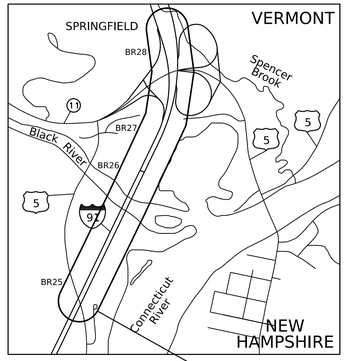
LENGTH OF 1-91 STRUCTURES: BRIDGE 25N = 226.39 FEET
BRIDGE 25S = 206.39 FEET
BRIDGE 26N = 312.50 FEET
BRIDGE 26S = 312.50 FEET
BRIDGE 28N = 181.73 FEET
BRIDGE 28S = 188.30 FEET
BRIDGE 27 N&S = REMOVAL

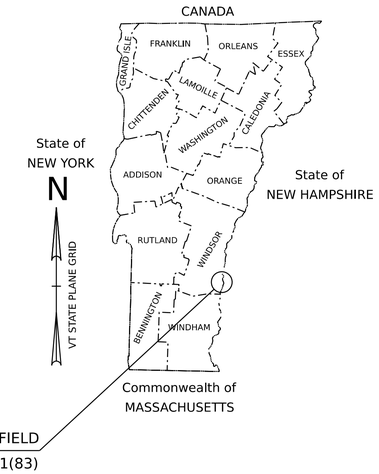
LENGTH OF EXIT 7 NB ON RAMP STRUCTURES: BRIDGE 28-1N = 34.00 FEET (INLET) & 18.00 FEET (OUTLET)
BRIDGE 28-1C = PARTIAL REMOVAL/ABANDON IN PLACE
BRIDGE 28-1G = REMOVAL

LENGTH OF ROADWAYS: I-91 BRIDGE 25N = 123.61 FEET
I-91 BRIDGE 25S = 143.61 FEET
I-91 BRIDGE 26N = 112.50 FEET
I-91 BRIDGE 26S = 112.50 FEET
I-91 BRIDGE 27N = 200.00 FEET
I-91 BRIDGE 27S = 225.00 FEET
I-91 BRIDGE 28N = 668.27 FEET
I-91 BRIDGE 28S = 336.70 FEET
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) = 800.00 FEET
NB OFF RAMP = 1175.89
NB ON RAMP = 1162.26
SB ON RAMP = 573.64

TOTAL LENGTH OF I-91 NORTHBOUND = 4950.00 FEET
TOTAL LENGTH OF I-91 SOUTHBOUND = 4475.00 FEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION





PROPOSED IMPROVEMENT
BRIDGE PROJECT

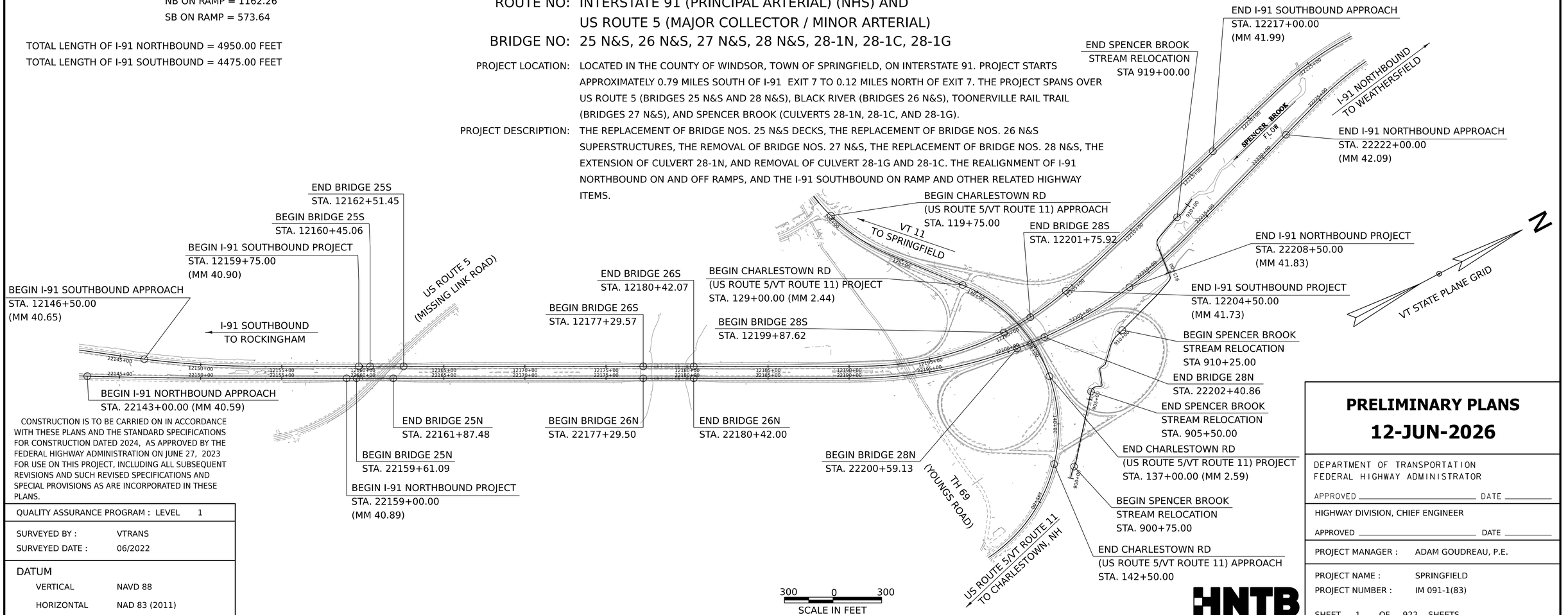
TOWN OF SPRINGFIELD
COUNTY OF WINDSOR

ROUTE NO: INTERSTATE 91 (PRINCIPAL ARTERIAL) (NHS) AND
US ROUTE 5 (MAJOR COLLECTOR / MINOR ARTERIAL)

BRIDGE NO: 25 N&S, 26 N&S, 27 N&S, 28 N&S, 28-1N, 28-1C, 28-1G

PROJECT LOCATION: LOCATED IN THE COUNTY OF WINDSOR, TOWN OF SPRINGFIELD, ON INTERSTATE 91. PROJECT STARTS APPROXIMATELY 0.79 MILES SOUTH OF I-91 EXIT 7 TO 0.12 MILES NORTH OF EXIT 7. THE PROJECT SPANS OVER US ROUTE 5 (BRIDGES 25 N&S AND 28 N&S), BLACK RIVER (BRIDGES 26 N&S), TOONERVILLE RAIL TRAIL (BRIDGES 27 N&S), AND SPENCER BROOK (CULVERTS 28-1N, 28-1C, AND 28-1G).

PROJECT DESCRIPTION: THE REPLACEMENT OF BRIDGE NOS. 25 N&S DECKS, THE REPLACEMENT OF BRIDGE NOS. 26 N&S SUPERSTRUCTURES, THE REMOVAL OF BRIDGE NOS. 27 N&S, THE REPLACEMENT OF BRIDGE NOS. 28 N&S, THE EXTENSION OF CULVERT 28-1N, AND REMOVAL OF CULVERT 28-1G AND 28-1C. THE REALIGNMENT OF I-91 NORTHBOUND ON AND OFF RAMPS, AND THE I-91 SOUTHBOUND ON RAMP AND OTHER RELATED HIGHWAY ITEMS.



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL	1
SURVEYED BY :	VTRANS
SURVEYED DATE :	06/2022
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (2011)

PRELIMINARY PLANS
12-JUN-2026

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR

APPROVED _____ DATE _____

HIGHWAY DIVISION, CHIEF ENGINEER

APPROVED _____ DATE _____

PROJECT MANAGER : ADAM GOUDREAU, P.E.

PROJECT NAME : SPRINGFIELD
PROJECT NUMBER : IM 091-1(83)

SHEET 1 OF 922 SHEETS

HNTB

REVIEWER NOTES

GENERAL

1. OPERATIONAL STORMWATER IS ANTICIPATED TO BE CLASSIFIED AS REDEVELOPMENT - MAJOR MAINTENANCE DUE TO THE NET REDUCTION IN IMPERVIOUS SURFACE.

2. NO RIGHT OF WAY IMPACTS ARE ANTICIPATED.

3. BURIED COMMUNICATIONS UTILITIES ALONG THE TOONERVILLE RAIL TRAIL ARE ANTICIPATED TO BE SLEEVED AND REMAIN IN THEIR EXISTING LOCATION. UTILITY RELOCATION IS ANTICIPATED FOR THE AERIAL UTILITY POLE 1/169 NEAR 1-91 NORTHBOUND EXIT 7 OFF RAMP STA. 204+75 RT.

4. THE PROJECT INVOLVES ROUGHLY 45.5 ACRES OF TOTAL EARTH DISTURBANCE. CURRENT PLANS RESTRICT ACTIVE DISTURBANCE TO 12 ACRES AT A TIME.

5. INFILTRATION TESTING WAS CONDUCTED WITHIN THE AREA OF THE PROPOSED BMP. RESULTS FROM THE INFILTRATION TESTING SHOWED THE 48 HOUR INFILTRATION RATE TO BE 1/8" PER HOUR WHICH IS BELOW THE MINIMUM REQUIRED INFILTRATION RATE (1/4" PER HOUR). AS A RESULT, UNDERDRAIN WILL NEED TO BE INSTALLED AS PART OF THE BMP DESIGN. IN ADDITION, SHALLOW BEDROCK WAS ENCOUNTERED WITHIN THE AREA OF THE BMP. BEDROCK DEPTHS WERE SHALLOWEST NEAR THE PROPOSED SB ON RAMP AND DROPPED OFF ON THE WESTERN EDGE OF THE BMP. DUE TO THIS THE BMP LOCATION WILL NEED TO BE SHIFTED WEST.

6. WETLAND CLASSES WERE NOT DESIGNATED WITHIN THE PROVIDED RESOURCE FILES. WE HAVE ASSUMED ALL DELINEATED WETLANDS TO BE CLASS II.

7. THE TRAFFIC DATA SHOWN ON THE PI SHEET IS BASED OFF TRAFFIC DATA AS SHOWN IN THE BRIDGE 28 SCOPING REPORT. UPDATED TRAFFIC DATA FROM VTRANS FOR I-91 AS WELL AS TRAFFIC DATA FOR OTHER ROADWAYS WITHIN THE PROJECT IS REQUESTED IN ORDER TO PROVIDE MORE CURRENT DATA.

8. A NEW PAVEMENT DESIGN WAS RECEIVED ON 4/20/2026. DUE TO THE QUANTITY AND ESTIMATE RECONCILLIATION, THE NEW PAVEMENT DESIGN WILL BE INCORPORATED FOR FINAL PLANS.

9. A PDF OF THE FIRST DRAFT OF THE LANDSCAPING PLANS WAS SUBMITTED TO HNTB BY VTRANS PRIOR TO THIS SUBMISSION. REVISIONS TO THE LANDSCAPING PLANS ARE REQUIRED TO ELIMINATE CONFLICTS WITH THE CURRENT DESIGN AND WILL BE INCORPORATED INTO THE FINAL PLAN SET.

BRIDGE 25 NB&SB

10. ANTICIPATED WORK TO BE COMPLETED:
    - I. CONCRETE DECK REPLACEMENT WITH NEW BITUMINOUS PAVEMENT,
    - II. REPLACEMENT OF ALL BEARINGS,
    - III. REPLACEMENT OF DECK JOINTS,
    - IV. ABUTMENT BACKWALL AND WINGWALL MODIFICATIONS FOR NEW RAILINGS AND JOINTS.
    - V. SUBSTRUCTURE PATCHING.

11. NO WORK IS ANTICIPATED ALONG ROUTE 5 BENEATH BRIDGE 25 NB&SB EXCEPT FOR TEMPORARY REMOVAL AND REPLACEMENT OF GUARDRAIL FOR ACCESS TO PIERS.

BRIDGE 26 NB&SB

12. ANTICIPATED WORK TO BE COMPLETED:
    - I. SUPERSTRUCTURE REPLACEMENT WITH NEW STEEL PLATE GIRDERS, CONCRETE DECK AND BITUMINOUS PAVEMENT,
    - II. REPLACEMENT OF ALL BEARINGS,
    - III. REPLACEMENT OF DECK JOINTS,
    - IV. ABUTMENT BACKWALL AND WINGWALL MODIFICATIONS FOR NEW RAILINGS AND JOINTS.
    - V. SUBSTRUCTURE PATCHING.

13. THE EMBANKMENTS BENEATH THE BRIDGE ARE ARMORED PRIMARILY WITH LARGE STONES WITH SIGNIFICANT VOIDS, OBSERVABLE SETTLEMENT, AND AN EXPOSED PILE FOUNDATION AT ONE ABUTMENT. ADDITIONAL BORROW AND STONE FILL WILL BE PLACED TO REPAIR THE EMBANKMENTS.

BRIDGE 27 NB&SB

14. ANTICIPATED WORK TO BE COMPLETED:
    - I. REMOVAL OF THE SUPERSTRUCTURE AND ABUTMENTS DOWN TO THE TOP OF FOOTING,
    - II. REMOVE PAVEMENT OF THE TOONERVILLE TRAIL AND FILL THE VOID CREATED BY THE REMOVAL OF BRIDGES,
    - III. THE BIN-WALLS, ABUTMENT FOOTINGS AND PILES TO BE BURIED IN PLACE.

BRIDGE 28 NB&SB

15. ANTICIPATED WORK TO BE COMPLETED:
    - I. REPLACE BOTH STRUCTURES WITH TWO-SPAN STEEL GIRDER BRIDGES WITH CONCRETE DECK. THE GIRDERS WILL BE CHORDED BETWEEN ABUTMENT 1 AND ABUTMENT 2.

16. ABUTMENTS ARE EXPECTED TO BE INTEGRAL ABUTMENTS. THE PIERS WILL EITHER BE WALL PIERS OR MULTI-COLUMN PIERS WITH A CRASH BARRIER; THE FINAL CONFIGURATION WILL BE DETERMINED AT A LATER SUBMITTAL.

SPENCER BROOK

17. SPENCER BROOK ALIGMENT AND CROSS SECTION HAS BEEN DESIGNED BASED ON COORDINATION WITH VTRANS AND A SITE VISIT WHERE MEASUREMENTS OF THE EXISTING STREAM WERE TAKEN. ADDITIONAL COORDINATION REGARDING STREAM BED MATERIAL AND LANDSCAPING WILL BE COMPLETED PRIOR TO FINAL DESIGN.

18. CULVERT 28-1N, LOCATED BENEATH I-91 NORTHBOUND NEAR STA 22211+00 RT, WILL BE PERMANENTLY EXTENDED TO THE EAST APPROXIMATELY 18'-0" AND WEST APPROXIMATELY 34'-0". PATCHING OF THIS CULVERT IS ANTICIPATED, AND THE MAGNITUDE/LOCATIONS WILL BE DETERMINED IN THE SUMMER OF 2026.

19. CULVERT 28-1G, LOCATED UNDER THE I-91 EXIT 7 NORTHBOUND OFF-RAMP ADJACENT TO ROUTE 5, WILL BE REMOVED IN ITS ENTIRETY, AND THE STREAM WILL BECOME AN OPEN CHANNEL WHERE THE CULVERT WAS LOCATED.

20. CULVERT 28-1C, LOCATED UNDER I-91 EXIT 7 NORTHBOUND OFF-RAMP, WILL BE ABANDONDED IN PLACE BY REMOVING THE TOP OF THE STRUCTURE AND BACKFILLING THE STRUCTURE WITH GRANULAR BORROW AND COMPACTING.

MAINTENANCE OF TRAFFIC

21. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG I-91 USING CROSSOVERS AND REDUCING EACH BARREL TO ONE LANE.

22. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG ROUTE 5, BOTH CHARLESTOWN ROAD AND MISSING LINK ROAD. TEMPORARY LANE CLOSURES WITH ALTERNATING ONE WAY TRAFFIC CONTROLLED BY FLAGGERS WILL BE ALLOWED DURING CERTAIN TIMES OF DAY PENDING ADDITIONAL COORDINATION.

23. PEDESTRIANS WILL BE TEMPORARILY ACCOMODATED ALONG ROUTE 5 FOR THE DURATION OF CONSTRUCTION AS SHOWN IN THE TRAFFIC CONTROL PLANS. HOWEVER, CLOSURE OF THE SHARED USE PATH IS EXPECTED DURING PHASE 4 TO CONSTRUCT THE NEW SHARED USE PATH.

24. I-91 NB ON AND OFF RAMPS WILL REQUIRE SHORT TERM CLOSURES WHEN TRAFFIC IS CHANGED TO THE NEW RAMPS. A DETOUR PLAN IS INCLUDED IN THE PLAN SET.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574frm		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	E. BEAUSOLEIL
DESIGNED BY:	T. POULIN	CHECKED BY:	C. HELMICK
REVIEWER NOTES		SHEET	2 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

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HSD-621.07C	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR	4/17/2019
HSD-621.07D	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS 1	4/17/2019
HSD-621.07E	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS 2	4/17/2019
HSD-621.07F	MIDWEST GUARDRAIL SYSTEM (MGS) TRANSITION SECTION	1/4/2021
HSD-678.01	PEDESTAL POST MOUNTED TRAFFIC CONTROL SIGNALS	12/21/2022
HSD-678.03	HEAVY DUTY JUNCTION BOXES	2/23/2023
HSD-678.04	RECTANGULAR RAPID FLASHING BEACON	12/21/2022

TRAFFIC DATA

ROADWAY	AADT		DHV		% T		% D		ADTT	
	2026	2046	2026	2046	2026	2046	2026	2046	2026	2046
I-91 NB	8600	9400	1400	1600	13.8	20.1	100	100	1500	2400
I-91 SB	4200	4700	860	960	13.9	20.3	100	100	830	1400

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

FINAL HYDRAULIC REPORT

Date: 05/08/2026

TOWN: Springfield
COUNTY: Windsor
PROJECT # : IM 091-1(83)
STREAM: Black River
HIGHWAY # : I-91 NB & SB
STRUCTURE # : BR26 N&S

HYDROLOGIC DATA

DRAINAGE AREA : 204-SQ.MI.
CHARACTER OF TERRAIN : partially controlled by dams underlying bedrock
WATERSHED STORAGE : 3.5% %

MEDIAN ANNUAL DAILY FLOW: 224 CFS

DESIGN AEP: 1% %
HYDROLOGICAL METHOD: USGS Stream Gage and USGS Regression Equations (2025)

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% = 4,320-CFS	2% = 7,630-CFS
10% = 6,010-CFS	1% = 8,400-CFS
4% = 6,930-CFS	0.5% = 9,190-CFS
	0.2% = 10,300-CFS

EXISTING STRUCTURE INFORMATION

HYDRAULIC CLEAR SPAN (NORMAL TO STREAM FLOW): 308-FT
HYDRAULIC CLEAR RISE: 34.4-FT
WATERWAY OF FULL HYDRAULIC OPENING: +/- 7654.1-SQ.FT.
BRIDGE LOW CHORD ELEVATION: 316.46-FT

IS THE EXISTING BRIDGE ON THE VTRANS SCOUR CRITICAL LIST? NO

WATER SURFACE ELEVATIONS AT:

50% AEP = 296.2-FT	VELOCITY =	2.5-FPS
10% AEP = 296.4-FT	"	3.4-FPS
4% AEP = 296.6-FT	"	3.9-FPS
2% AEP = 296.7-FT	"	4.3-FPS
1% AEP = 296.8-FT	"	4.7-FPS

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: NO
CALCULATED OVERTOPPING FREQUENCY: N/A
ROADWAY RELIEF ELEVATION : N/A

LONG TERM STREAMBED CHANGES: N/A

PROPOSED STRUCTURE

HYDRAULIC CLEAR SPAN (NORMAL TO STREAM FLOW): 308-FT
HYDRAULIC CLEAR RISE: 34.4-FT
WATERWAY OF FULL HYDRAULIC OPENING: +/- 7654.1-SQ.FT.
BRIDGE LOW CHORD ELEVATION: 316.46-FT

WATER SURFACE ELEVATIONS AT:

50% AEP = 296.2-FT	VELOCITY =	2.5-FPS
10% AEP = 296.4-FT	"	3.4-FPS
4% AEP = 296.6-FT	"	3.9-FPS
2% AEP = 296.7-FT	"	4.3-FPS
1% AEP = 296.8-FT	"	4.7-FPS

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: NO
CALCULATED OVERTOPPING FREQUENCY: N/A
ROADWAY RELIEF ELEVATION : N/A

FREEBOARD @ DESIGN AEP: 19.7-FT @ 1% AEP

STREAMBED MATERIAL (OR D50) : GRAVEL BED

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

THALWEG ELEVATION: 282.15-FT
SCOUR DESIGN ELEVATION: N/A *
SCOUR CHECK ELEVATION: N/A

REQUIRED CHANNEL PROTECTION: E-STONE FILL TYPE III
REQUIRED ROADWAY EMBANKMENT PROTECTION: STONE FILL TYPE IV

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: NA
MINIMUM STRUCTURAL CLEAR SPAN : 308-FT
MINIMUM LOW CHORD ELEVATION: 316.46-FT
WATERWAY AREA OF FULL OPENING: +/- 7650-SQ.FT.

ADDITIONAL INFORMATION

* No scour evaluation was preformed as the existing deep foundation substructure is remianing in place.

CALCULATIONS BY: MHG
CHECKED BY: KRF

TRAFFIC MAINTENANCE NOTES

1. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG I-91 USING CROSS-OVERS AND REDUCING EACH BARREL TO ONE LANE.
2. TWO-WAY TRAFFIC WILL BE MAINTAINED ALONG ROUTE 5, BOTH CHARLESTOWN ROAD AND MISSING LINK ROAD. TEMPORARY SHOULDER CLOSERS MAY BE REQUIRED.

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_P:	0.0 INCH
3. DESIGN SPAN	L:	
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	- - -
5. PRESTRESSING STRAND	f_y:	- - -
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	- - -
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	- - -
8. PERFORMANCE BASED CONCRETE, CLASS PCD	f'_c:	- - -
9. PERFORMANCE BASED CONCRETE, CLASS PCS	f'_c:	- - -
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'_c:	- - -
11. CONCRETE, CLASS C	f'_c:	- - -
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	f_y:	50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	- - -
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	- - -
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
18. PILE RESISTANCE FACTOR	ϕ:	- - -
19. LATERAL PILE DEFLECTION	Δ:	- - -
20. BASIC WIND SPEED	V_{3s}:	- - -
21. MINIMUM GROUND SNOW LOAD	p_g:	- - -
22. SEISMIC DATA PGA: - - -	S_s:	- - -
	S_1:	- - -
23.		
24.		- - -
25.		- - -
26.		- - -

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: T. POULIN
PRELIMINARY INFORMATION SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: T. POULIN
CHECKED BY: J. OLUND
SHEET 3 OF 922

HNTB

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

PLAN SHEETS

SEE PRELIMINARY INFORMATION SHEET 1

STANDARDS LIST

SEE PRELIMINARY INFORMATION SHEET 1

HIGHWAY SAFETY DESIGN DETAILS

SEE PRELIMINARY INFORMATION SHEET 1

TRAFFIC DATA

AS BUILT "REBAR" DETAIL

FINAL HYDRAULIC REPORT

Date: 05/08/2026

TOWN: Springfield
PROJECT # : IM 091-1(83)
HIGHWAY # : I-91 NB & SB

COUNTY: Windsor
STREAM: Spencer Brook
STRUCTURE # : BR28-1N

HYDROLOGIC DATA

DRAINAGE AREA : 6.4-SQ.MI.
CHARACTER OF TERRAIN : Steep, forested terrain
WATERSHED STORAGE : 3.1 %

MEDIAN ANNUAL DAILY FLOW: 5 CFS

DESIGN AEP: 1 %
HYDROLOGICAL METHOD: USGS Regression Equations (2025)

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% = 210-CFS
10% = 430-CFS
4% = 570-CFS
2% = 680-CFS
1% = 810-CFS
0.5% = 950-CFS
0.2% = 1,150-CFS

EXISTING STRUCTURE INFORMATION

EXISTING STRUCTURE TYPE: Concrete Box Culvert
STRUCTURE CLEAR SPAN: 11.6-FT
STRUCTURE CLEAR HEIGHT: 10.6-FT
STRUCTURE EMBEDMENT DEPTH & INFILL MATERIAL: N/A
WATERWAY OF FULL HYDRAULIC OPENING: +/- 121.0-SQ.FT.
STRUCTURE INLET INVERT ELEVATION: 303.61-FT
STRUCTURE OUTLET INVERT ELEVATION: 303.56-FT
STRUCTURE LENGTH: 137-FT

WATER SURFACE ELEVATIONS AT:

50% AEP =	308.2-FT	VELOCITY =	4.3-FPS
10% AEP =	309.8-FT	"	7.5-FPS
4% AEP =	310.6-FT	"	9.3-FPS
2% AEP =	311.3-FT	"	10.5-FPS
1% AEP =	312.4-FT	"	11.5-FPS

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: NO
CALCULATED OVERTOPPING FREQUENCY: N/A

LONG TERM STREAMBED CHANGES: N/A

PROPOSED STRUCTURE

PROPOSED STRUCTURE TYPE: Extension of Existing Box Culvert
STRUCTURE CLEAR SPAN: 11-FT
STRUCTURE CLEAR HEIGHT: 11-FT
STRUCTURE EMBEDMENT DEPTH & INFILL MATERIAL: N/A
WATERWAY OF FULL HYDRAULIC OPENING: +/- 123.0-SQ.FT.
STRUCTURE INLET INVERT ELEVATION: 303.61-FT
STRUCTURE OUTLET INVERT ELEVATION: 303.61-FT
STRUCTURE LENGTH: 189-FT

WATER SURFACE ELEVATIONS AT:

50% AEP =	308.2-FT	VELOCITY =	4.6-FPS
10% AEP =	310.1-FT	"	7.6-FPS
4% AEP =	311.2-FT	"	9.2-FPS
2% AEP =	312.1-FT	"	10.1-FPS
1% AEP =	313.2-FT	"	10.9-FPS

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: NO
CALCULATED OVERTOPPING FREQUENCY: N/A

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEM
TONNAGE							
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

HEADWATER @ DESIGN AEP: 9.6-FT @ 1% AEP (HW/D ratio = 0.9 @ 1%AEP)

REQUIRED CHANNEL PROTECTION: E-STONE FILL TYPE II
REQUIRED ROADWAY EMBANKMENT PROTECTION: STONE FILL TYPE II

ADDITIONAL INFORMATION

Existing structure has a HW/D ratio of 1.0 at 0.5% AEP, corresponding to headwater elevation of 313.6-FT at the check event.
Proposed structure has a HW/D ratio of 1.0 at 0.5% AEP, corresponding to headwater elevation of 314.4-FT at the check event.

CALCULATIONS BY: MHG
CHECKED BY: KRF

TRAFFIC MAINTENANCE NOTES

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_p:	0.0 INCH
3. DESIGN SPAN	L:	
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	- - -
5. PRESTRESSING STRAND	f_y:	- - -
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	- - -
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	- - -
8. PERFORMANCE BASED CONCRETE, CLASS PCD	f'_c:	- - -
9. PERFORMANCE BASED CONCRETE, CLASS PCS	f'_c:	- - -
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'_c:	- - -
11. CONCRETE, CLASS C	f'_c:	- - -
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	f_y:	50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	- - -
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
16. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	- - -
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
18. PILE RESISTANCE FACTOR	ϕ:	- - -
19. LATERAL PILE DEFLECTION	Δ:	- - -
20. BASIC WIND SPEED	V_{3s}:	- - -
21. MINIMUM GROUND SNOW LOAD	p_g:	- - -
22. SEISMIC DATA PGA: - - -	S_s:	- - -
	S_1:	- - -
23.		
24.		- - -
25.		- - -
26.		- - -

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: T. POULIN
PRELIMINARY INFORMATION SHEET 2

PLOT DATE: 12-JUN-2026
DRAWN BY: T. POULIN
CHECKED BY: J. OLUND
SHEET 4 OF 922

HNTB

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

WATER SYSTEM SYMBOLS

POINT	DESCRIPTION
	BEND
	TEE
	CAP/PLUG
	REDUCER

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T. & I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
☒	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UGU — UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UC — CABLE (TV)
- UEC — ELECTRIC+CABLE
- UET — ELECTRIC+TELEPHONE
- UCT — CABLE+TELEPHONE
- UECT — ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- AGU — UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- C — CABLE (TV)
- EC — ELECTRIC+CABLE
- ET — ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CT — CABLE+TELEPHONE
- ECT — ELECTRIC+CABLE+TELEPHONE
- UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PDF — PROJECT DEMARCATION FENCE
- BF — BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE LINE — STATE BOUNDARY LINE
- PROPOSED STATE R.O.W. (LIMITED ACCESS)
- PROPOSED STATE R.O.W.
- STATE ROW (LIMITED ACCESS)
- STATE ROW
- TOWN ROW
- PERMANENT EASEMENT LINE (P)
- TEMPORARY EASEMENT LINE (T)
- SURVEY LINE
- P/L — PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- SEDIMENT ISOLATION MEASURES
- SILT FENCE
- SILT FENCE WOVEN WIRE
- CHECK DAM
- DISTURBED AREAS REQUIRING RE-VEGETATION
- EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

- WETLAND BOUNDARY
- RIPARIAN BUFFER ZONE
- WETLAND BUFFER ZONE
- SOIL TYPE BOUNDARY
- T&E — THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AG — AGRICULTURAL LAND
- HABITAT — FISH & WILDLIFE HABITAT
- FLOOD PLAIN — FLOOD PLAIN
- OHW — ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) — HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

- ROAD EDGE PAVEMENT
- ROAD EDGE GRAVEL
- DRIVEWAY EDGE
- DITCH
- FOUNDATION
- FENCE (EXISTING)
- FENCE WOOD POST
- FENCE STEEL POST
- GARDEN
- ROAD GUARDRAIL
- RAILROAD TRACKS
- CULVERT (EXISTING)
- STONE WALL
- WALL
- WOOD LINE
- BRUSH LINE
- HEDGE
- BODY OF WATER EDGE
- LEDGE EXPOSED

HNTB

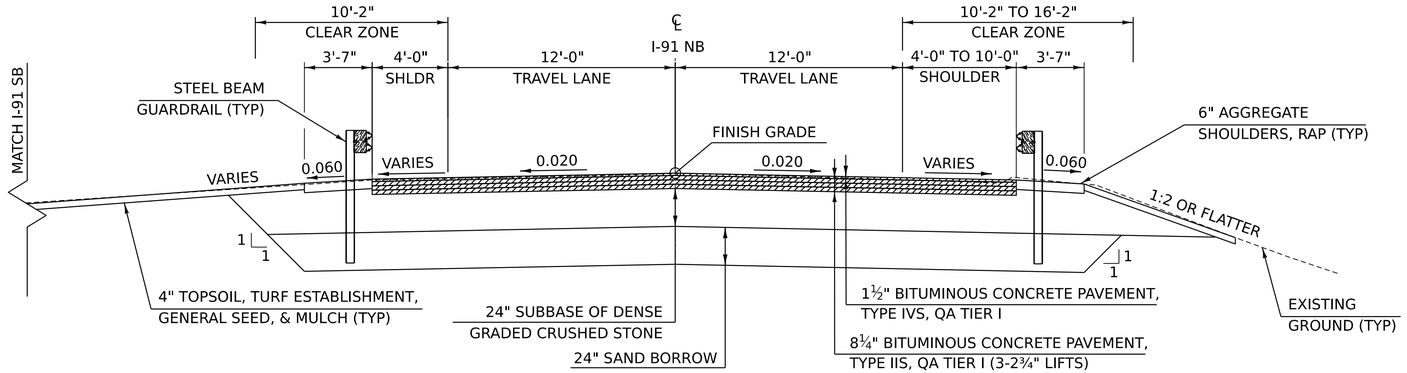
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z21a574legend.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
SYMBOLOGY LEGEND SHEET	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. SHEDD
SHEET	5 OF 922

MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA - I-91 NB & SB

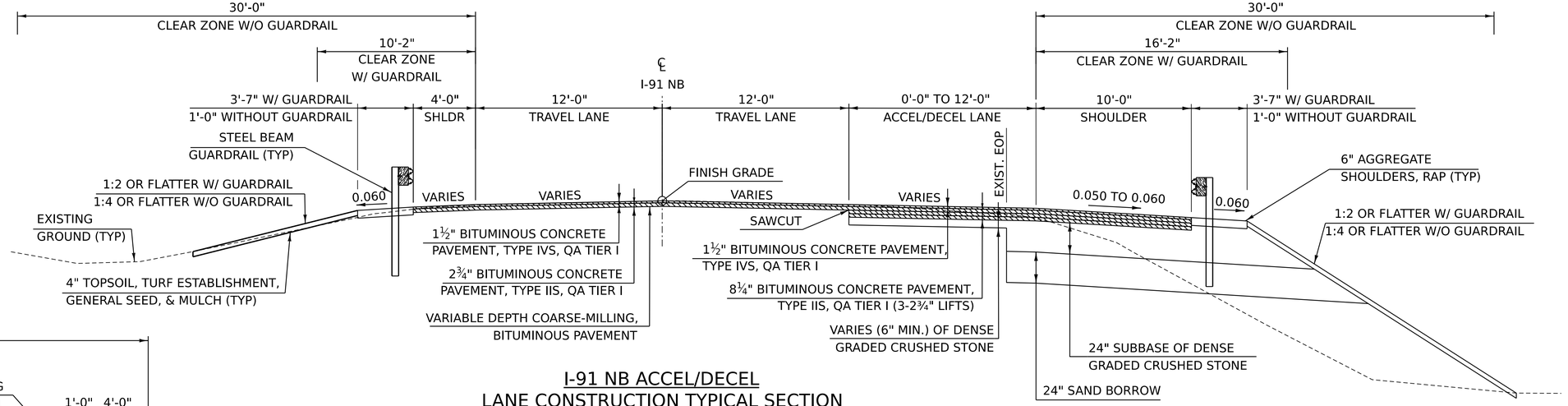
DESIGN LANE/DESIGN LIFE ESALS	7,444,000
DESIGN NUMBER OF GYRATIONS (TYPE IVS)	80
DESIGN NUMBER OF GYRATIONS (ALL OTHER MIX TYPES)	80
PERFORMANCE GRADED ASPHALT BINDER - PAVER PLACED	70E-28
PERFORMANCE FRADED ASPHALT BINDER - NON-PAVER PLACED AND U-TURNS	70S-28



I-91 NB FULL DEPTH CONSTRUCTION
BRIDGE 25 AND 26 TYPICAL SECTION

STA. 22159+00 - STA. 22159+61
STA. 22161+88 - STA. 22162+50
STA. 22176+75 - STA. 22177+30
STA. 22180+42 - STA. 22181+00

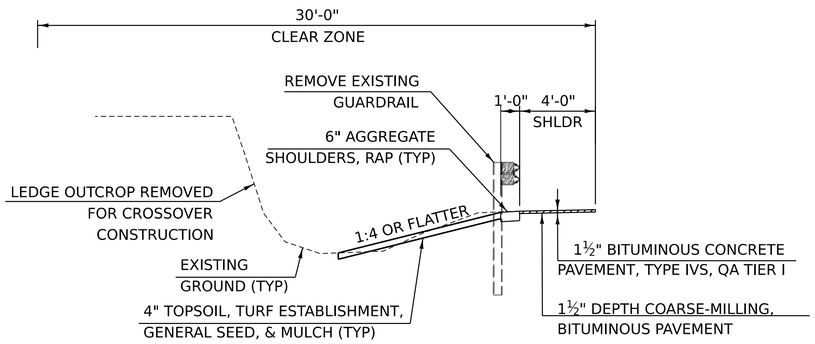
SCALE:¼" = 1'-0"



I-91 NB ACCEL/DECEL
LANE CONSTRUCTION TYPICAL SECTION

STA. 22184+00 - STA. 22192+25
STA. 22208+00 - STA. 22222+00

SCALE:¼" = 1'-0"



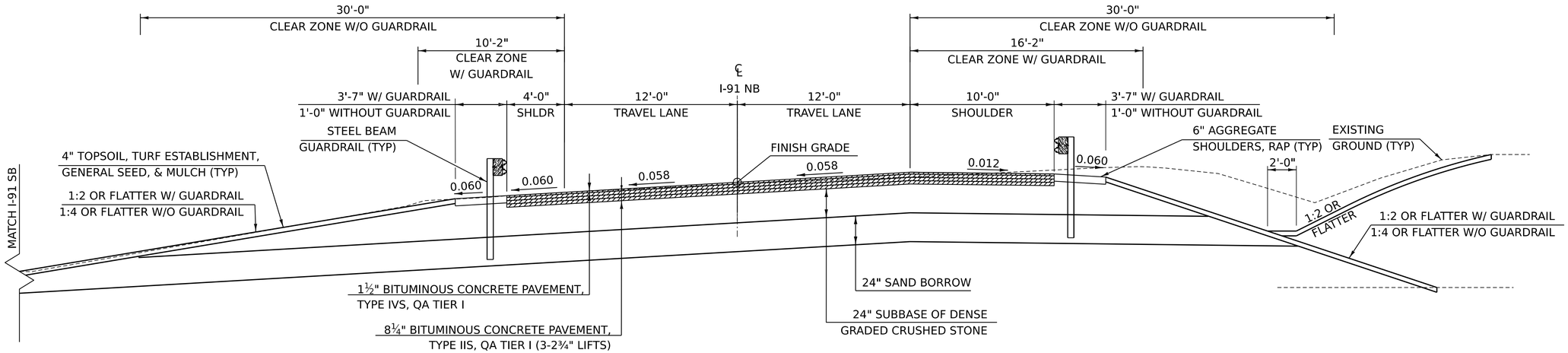
I-91 NB GUARDRAIL REMOVAL &
MEDIAN SLOPE GRADING TYPICAL

STA. 22147+50 - 22154+00

SCALE:¼" = 1'-0"

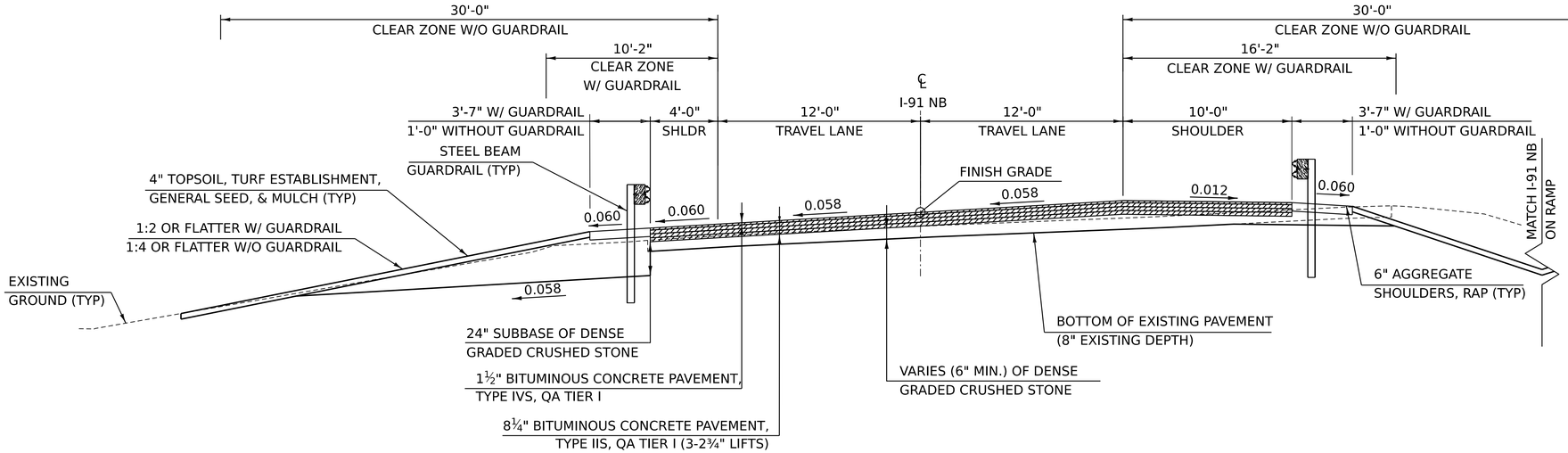
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 1	SHEET 6 OF 922

HNTB



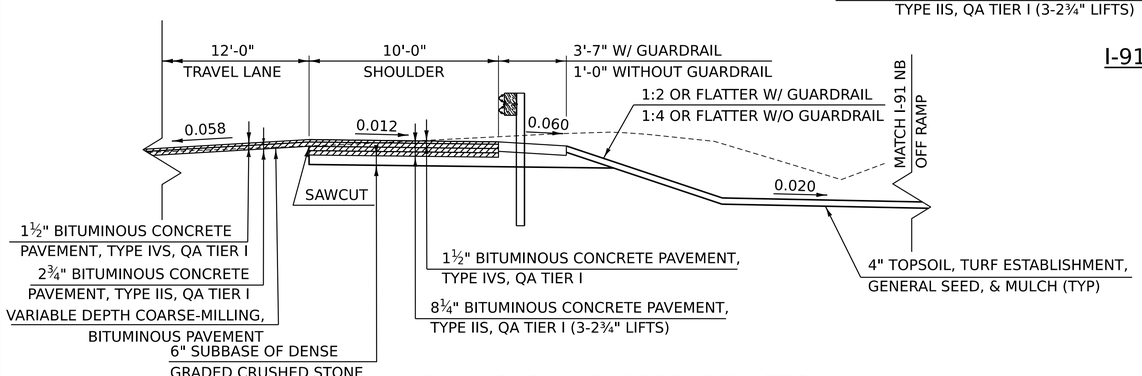
I-91 NB FULL DEPTH CONSTRUCTION
AT BRIDGE 27 AND 28 TYPICAL SECTION

STA. 22192+75 - STA. 22194+75
STA. 22200+00 - STA. 22200+59
STA. 22202+40 - STA. 22203+00
SCALE: ¼" = 1'-0"



I-91 NB FULL DEPTH CONSTRUCTION
VARIABLE DEPTH SUBBASE

STA. 22203+00 - STA. 22208+50
SCALE: ¼" = 1'-0"

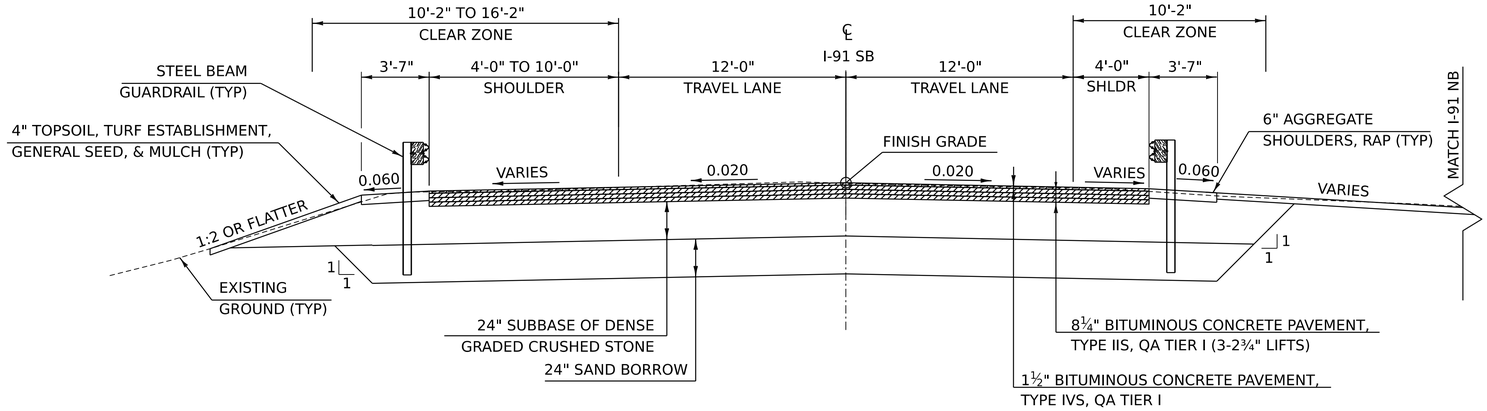


I-91 NB SHOULDER RECONSTRUCTION

STA. 22194+75 - STA. 22200+00
SCALE: ¼" = 1'-0"

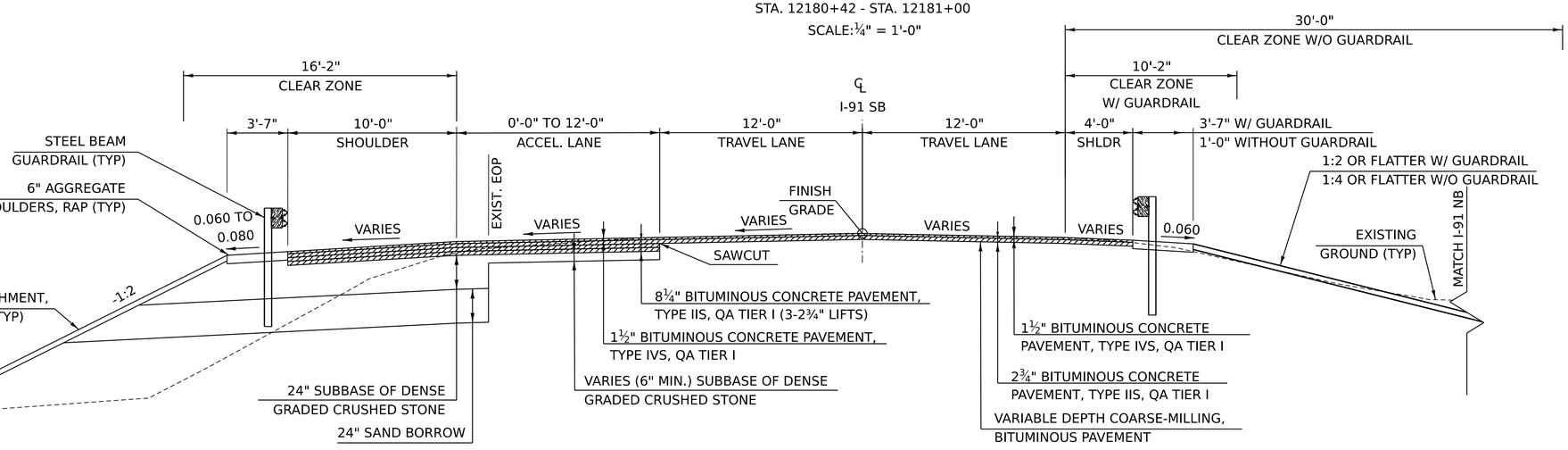
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 2	SHEET 7 OF 922

HNTB



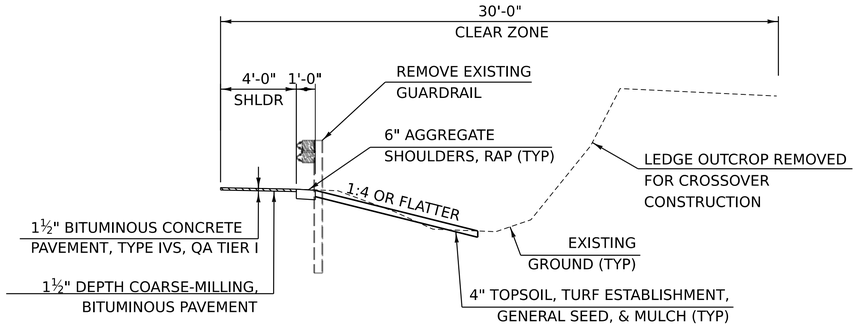
I-91 SB FULL DEPTH CONSTRUCTION
BRIDGE 25 AND 26 TYPICAL SECTION

STA. 12159+75 - STA. 12160+45
STA. 12162+52 - STA. 12163+25
STA. 12176+75 - STA. 12177+30
STA. 12180+42 - STA. 12181+00
SCALE:¼" = 1'-0"



I-91 SB ACCELERATION LANE
CONSTRUCTION TYPICAL SECTION

STA. 12183+00 TO STA. 12192+25
SCALE:¼" = 1'-0"

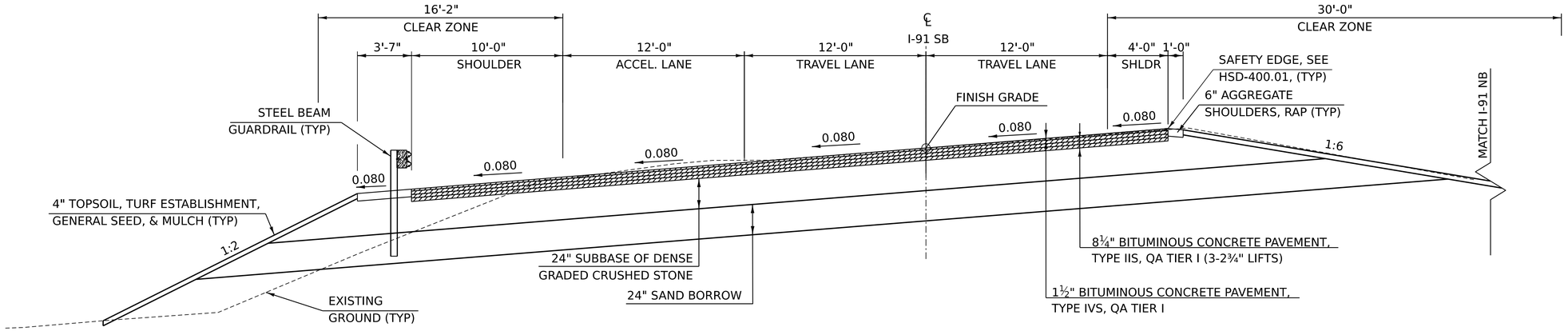


I-91 SB GUARDRAIL REMOVAL &
MEDIAN SLOPE GRADING TYPICAL

STA. 12151+75 - 12155+00
SCALE:¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 3	SHEET 8 OF 922

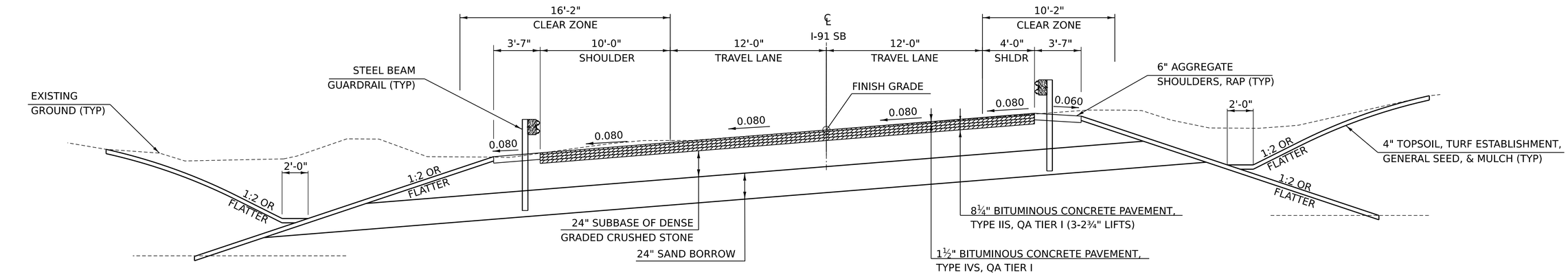
HNTB



I-91 SB FULL DEPTH CONSTRUCTION
BRIDGE 27 TYPICAL SECTION

STA. 12192+25 - STA. 12194+50

SCALE: ¼" = 1'-0"

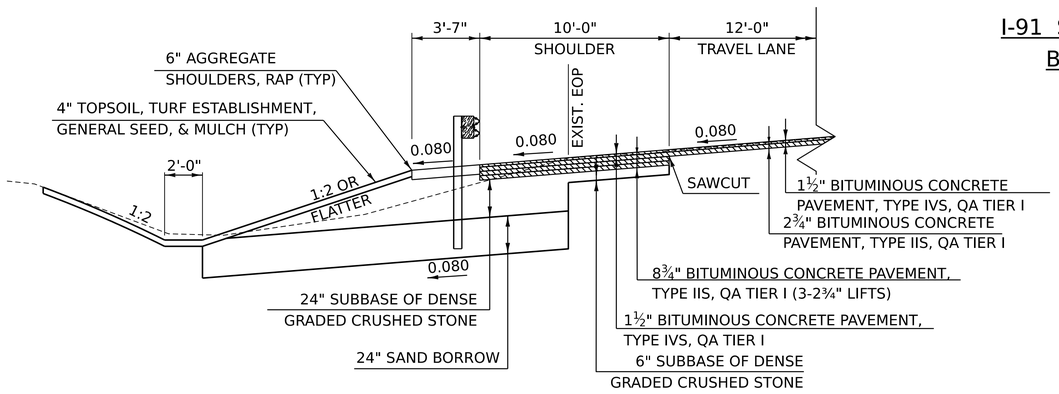


I-91 SB FULL DEPTH CONSTRUCTION
BRIDGE 28 TYPICAL SECTION

STA. 12199+25 - STA. 12199+87

STA. 12201+77 - STA. 12204+50

SCALE: ¼" = 1'-0"



PROPOSED I-91 SB SHOULDER RECONSTRUCTION

STA. 12197+75 - STA. 12199+25

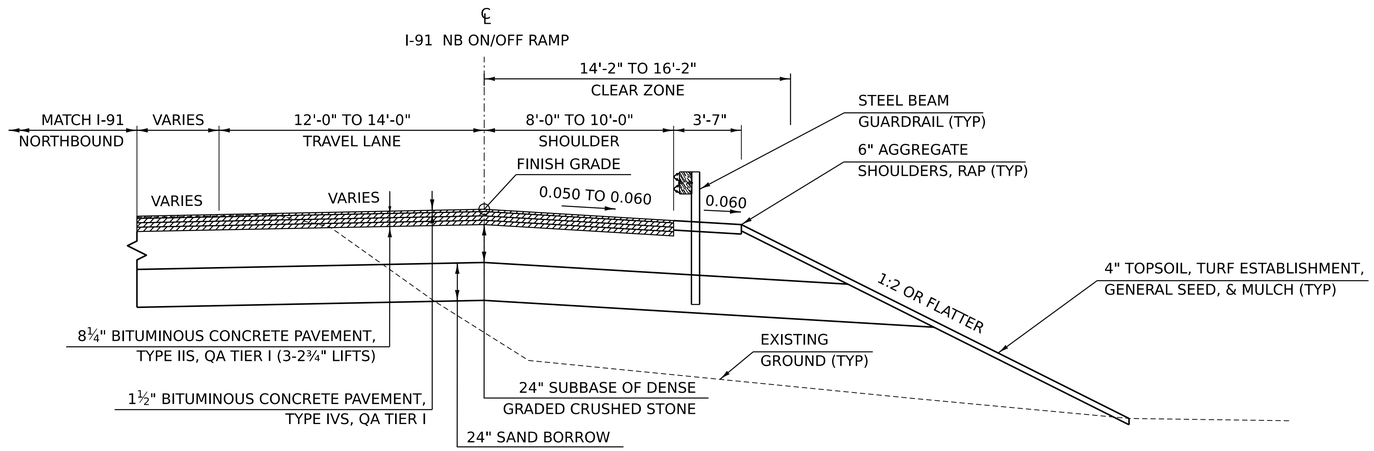
SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 4		SHEET	9 OF 922

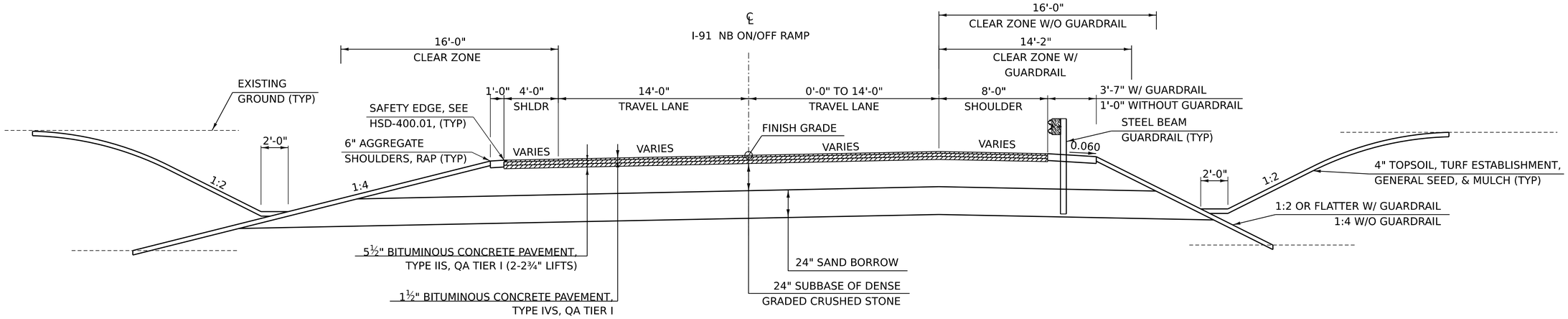
HNTB

BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA - I-91 RAMPS	
DESIGN LANE/DESIGN LIFE ESALS	1,220,250
DESIGN NUMBER OF GYRATIONS (TYPE IVS)	80
DESIGN NUMBER OF GYRATIONS (ALL OTHER MIX TYPES)	80
PERFORMANCE GRADED ASPHALT BINDER - PAVER PLACED	70E-28
PERFORMANCE FRADED ASPHALT BINDER - NON-PAVER PLACED AND U-TURNS	70S-28



I-91 NB ON/OFF RAMP GORE TYPICAL SECTION

STA. 200+00 - STA. 204+03
STA. 307+17 TO STA. 311+89
SCALE:¼" = 1'-0"

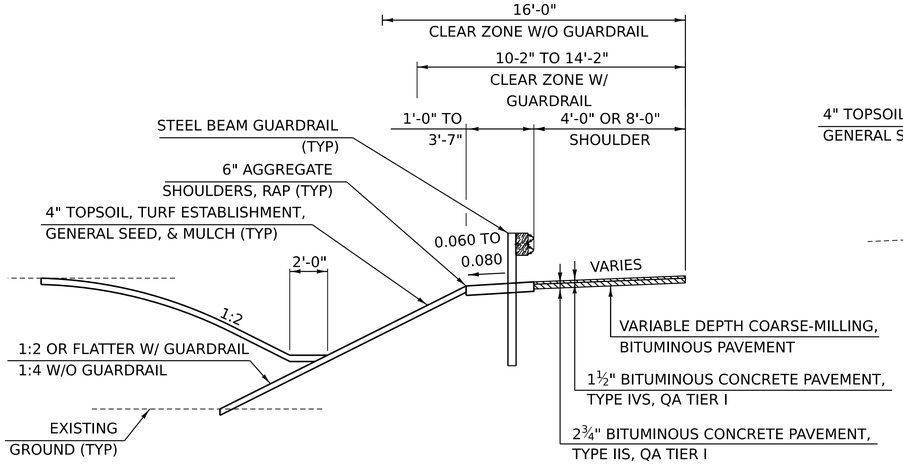


I-91 NB ON/OFF RAMP TYPICAL SECTION

STA. 204+03 - STA. 211+50
STA. 300+50 - STA. 307+17
SCALE: ¼" = 1'-0"

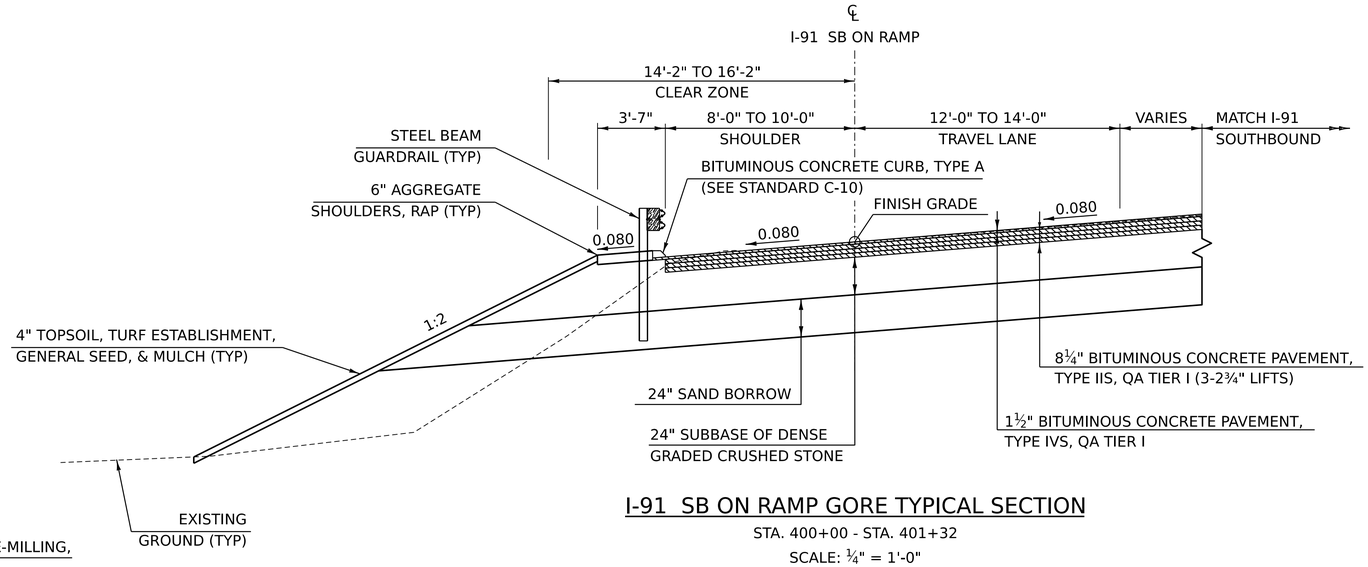
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 5		SHEET	10 OF 922



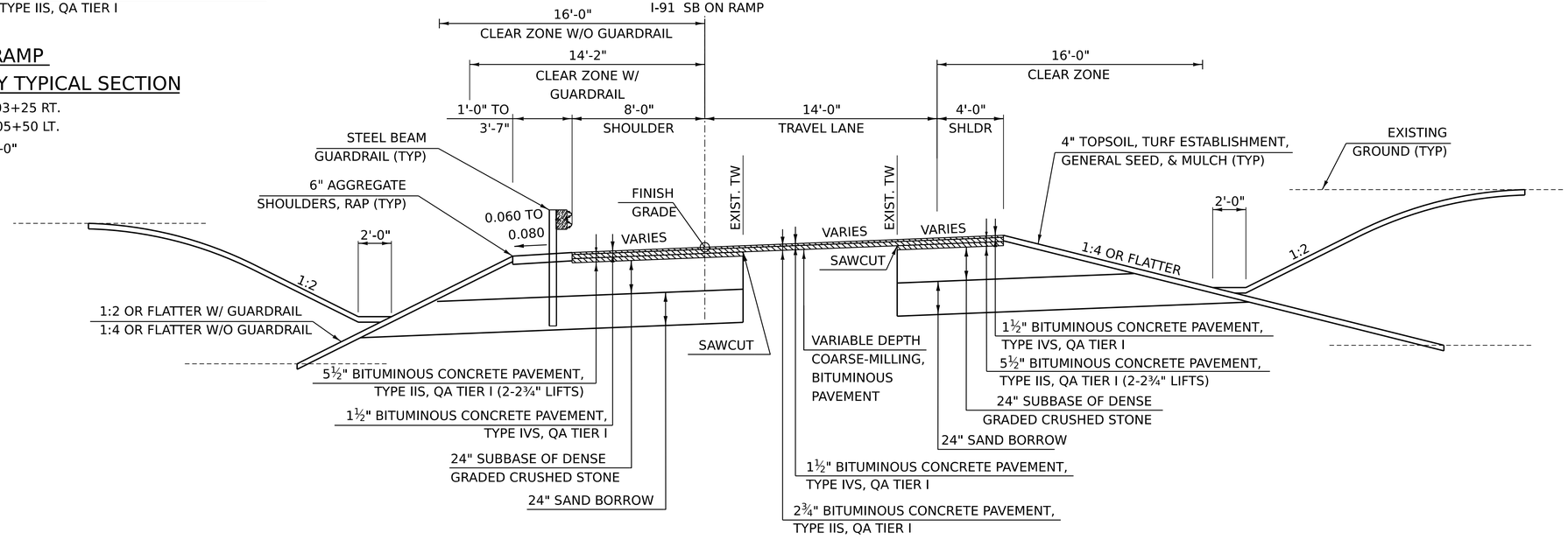
I-91 SB ON RAMP
SHOULDER MILL & OVERLAY TYPICAL SECTION

STA. 401+32 - STA. 403+25 RT.
STA. 404+00 - STA. 405+50 LT.
SCALE: ¼" = 1'-0"



I-91 SB ON RAMP GORE TYPICAL SECTION

STA. 400+00 - STA. 401+32
SCALE: ¼" = 1'-0"



SB ON RAMP LEFT
SHOULDER RECONSTRUCTION
STA. 401+32 - STA. 403+00

SB ON RAMP RIGHT
SHOULDER RECONSTRUCTION
STA. 403+75 - STA. 405+50

I-91 SB ON RAMP TYPICAL SECTION

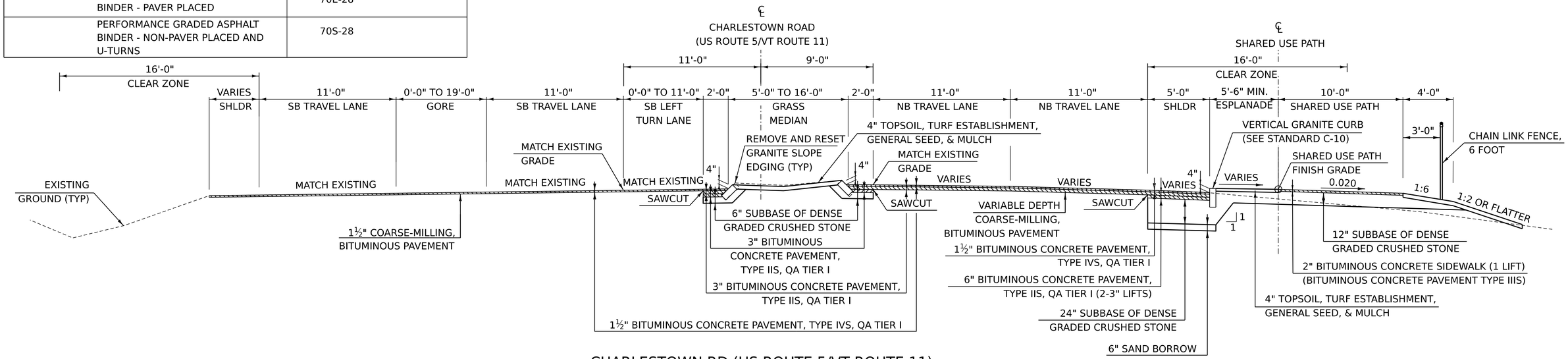
STA. 401+32 - STA. 405+50
SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 6	SHEET 11 OF 922

HNTB

BITUMINOUS CONCRETE PAVEMENT
MIXTURE DESIGN CRITERIA - US ROUTE 5/VT ROUTE 11

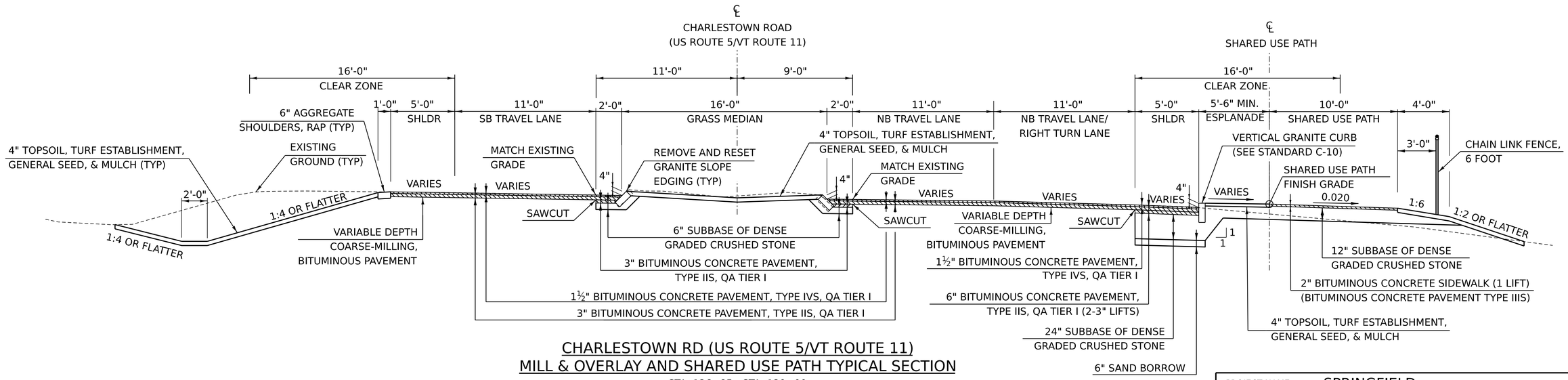
DESIGN LANE/DESIGN LIFE ESALS	3,452,000
DESIGN NUMBER OF GYRATIONS (TYPE IVS)	80
DESIGN NUMBER OF GYRATIONS (ALL OTHER MIX TYPES)	80
PERFORMANCE GRADED ASPHALT BINDER - PAVER PLACED	70E-28
PERFORMANCE GRADED ASPHALT BINDER - NON-PAVER PLACED AND U-TURNS	70S-28



CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
MILL & OVERLAY AND SHARED USE PATH TYPICAL SECTION

STA. 119+75 - STA. 126+85

SCALE: ¼" = 1'-0"



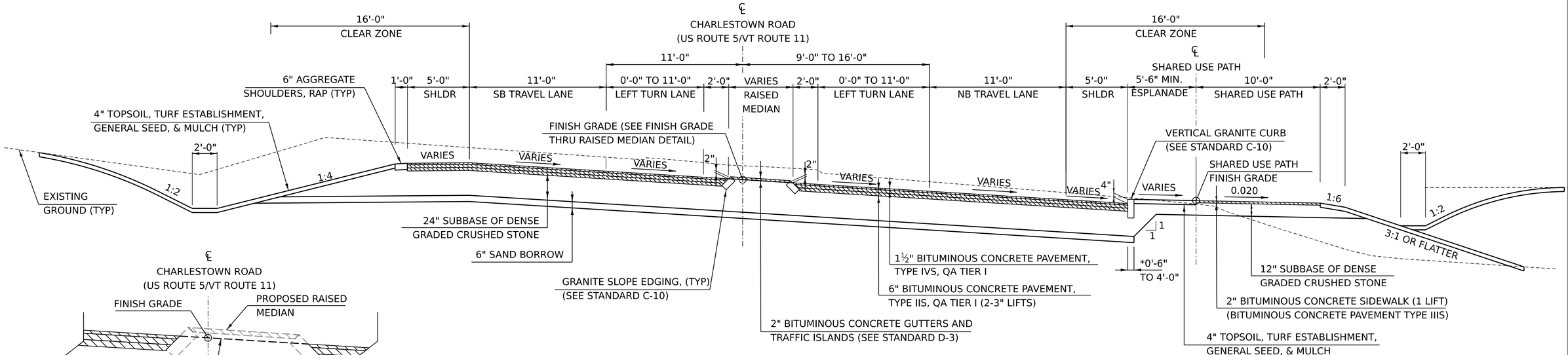
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
MILL & OVERLAY AND SHARED USE PATH TYPICAL SECTION

STA. 126+85 - STA. 129+00

SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 7	SHEET 12 OF 922

HNTB



CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
FULL DEPTH CONSTRUCTION AND SHARED USE PATH TYPICAL SECTION

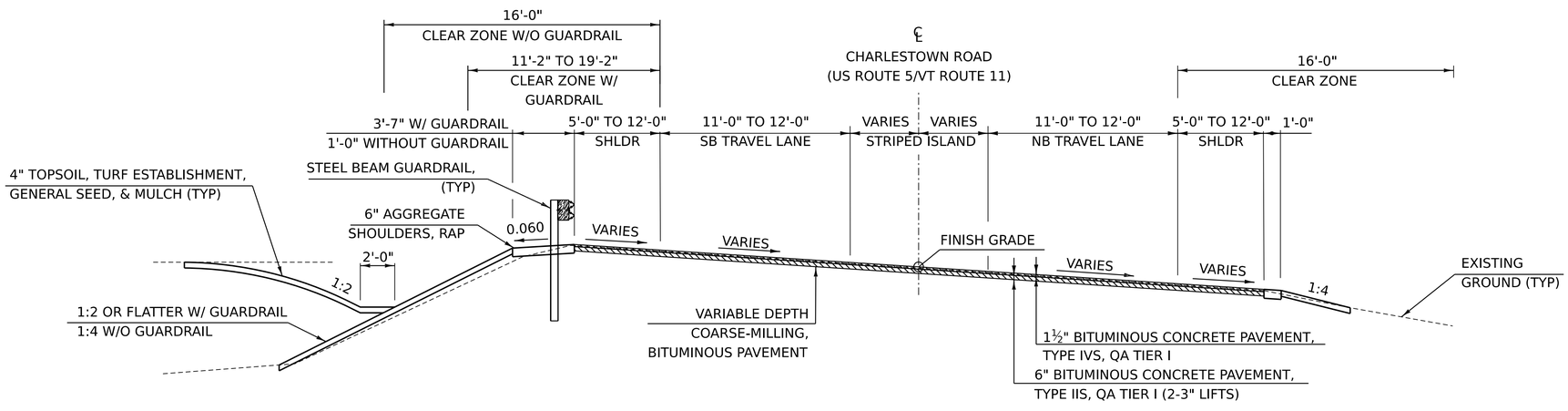
STA. 129+00 - STA. 137+00

SCALE: ¼" = 1'-0"

*0'-6" TYPICAL, WIDTH UP TO 4'-0"
IN AREAS WITH UNDERDRAIN

FINISH GRADE THRU RAISED MEDIAN DETAIL

NOT TO SCALE



CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
MILL & OVERLAY TYPICAL SECTION

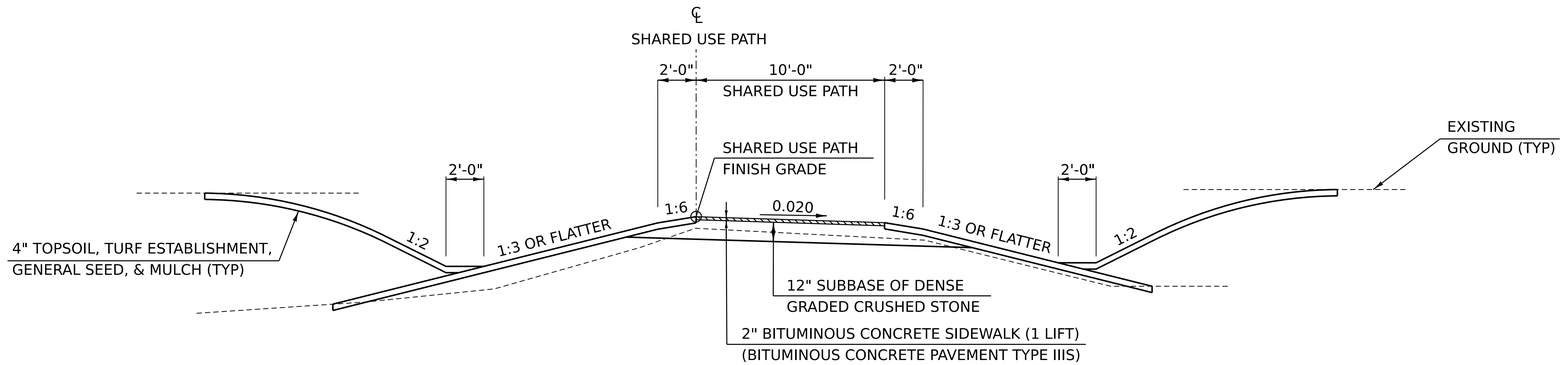
STA. 137+00 - STA. 142+50

SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

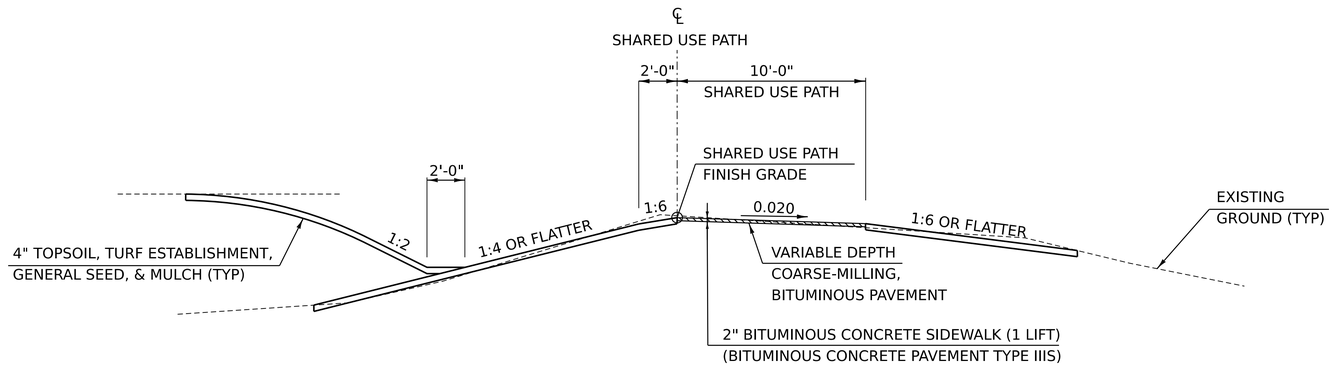
FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 8		SHEET	13 OF 922

HNTB



SHARED USE PATH
TYPICAL SECTION

STA. 1998+50 - STA. 1999+50
STA. 2026+00 - STA. 2027+25
SCALE: ¼" = 1'-0"



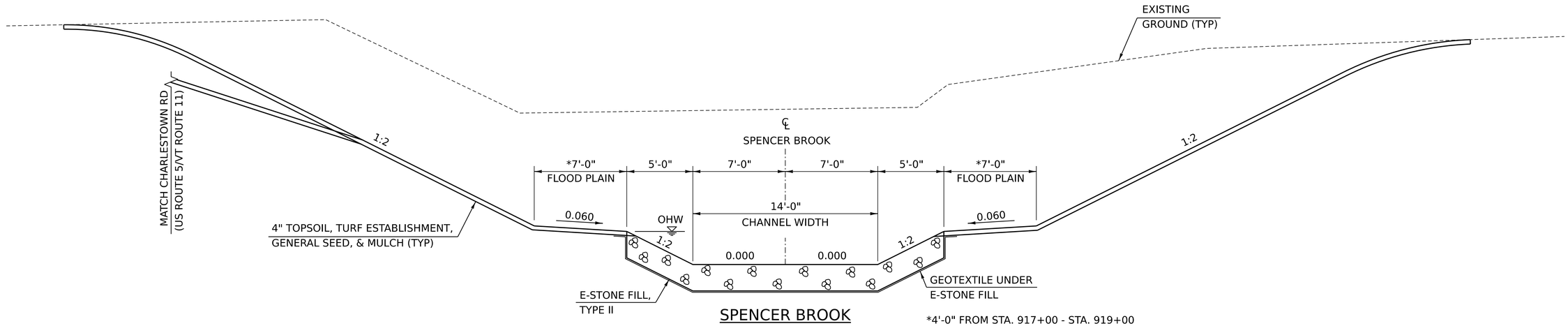
SHARED USE PATH
TYPICAL SECTION

STA. 2019+50 - STA. 2026+00
SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 9		SHEET 14	OF 922

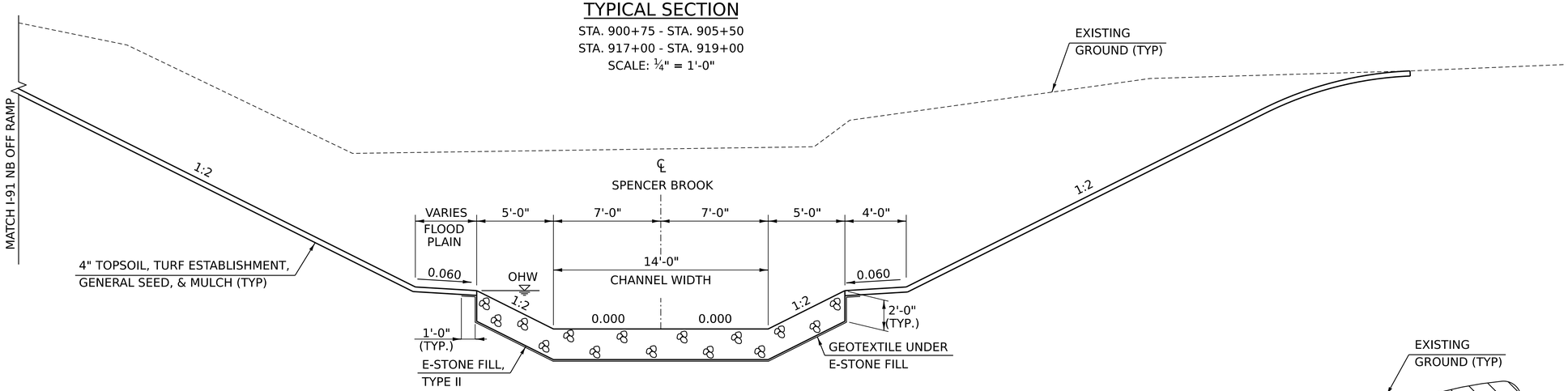
HNTB



SPENCER BROOK
TYPICAL SECTION

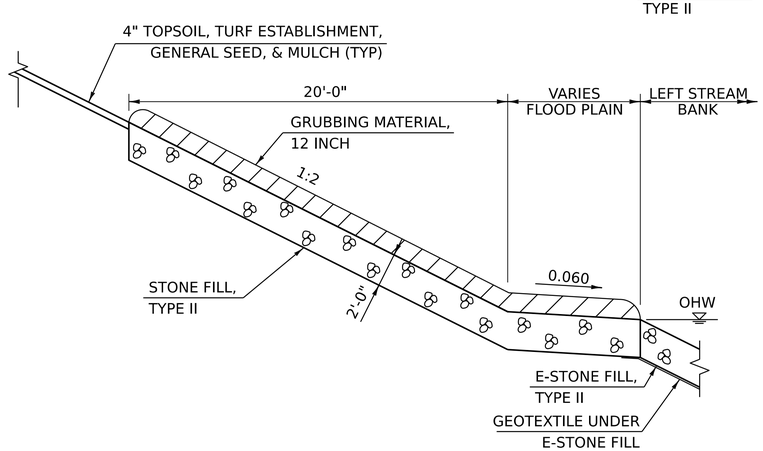
STA. 900+75 - STA. 905+50
STA. 917+00 - STA. 919+00
SCALE: ¼" = 1'-0"

*4'-0" FROM STA. 917+00 - STA. 919+00



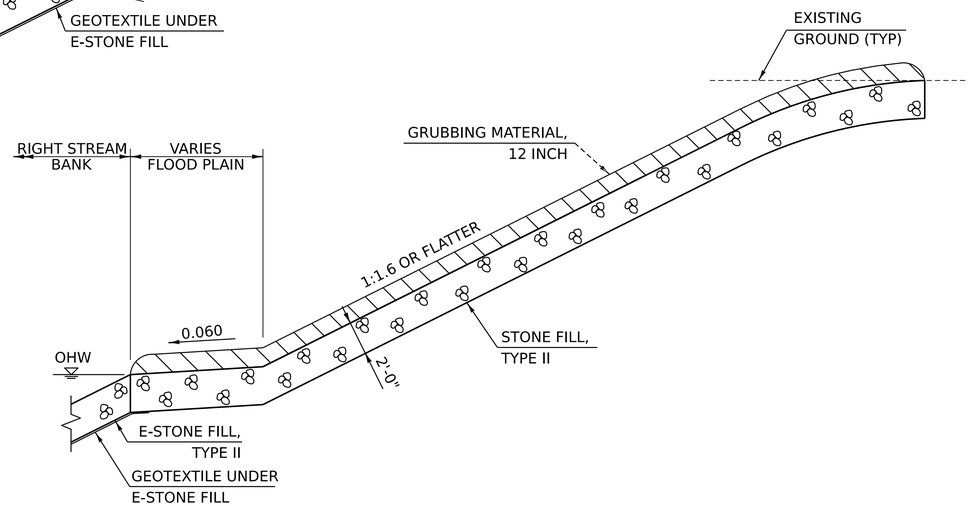
SPENCER BROOK
TYPICAL SECTION

STA. 909+25 - STA. 914+75
SCALE: ¼" = 1'-0"



SPENCER BROOK
LEFT SLOPE PROTECTION

STA. 901+00 - STA. 901+75
STA. 909+25 - STA 914+50
SCALE: ¼" = 1'-0"

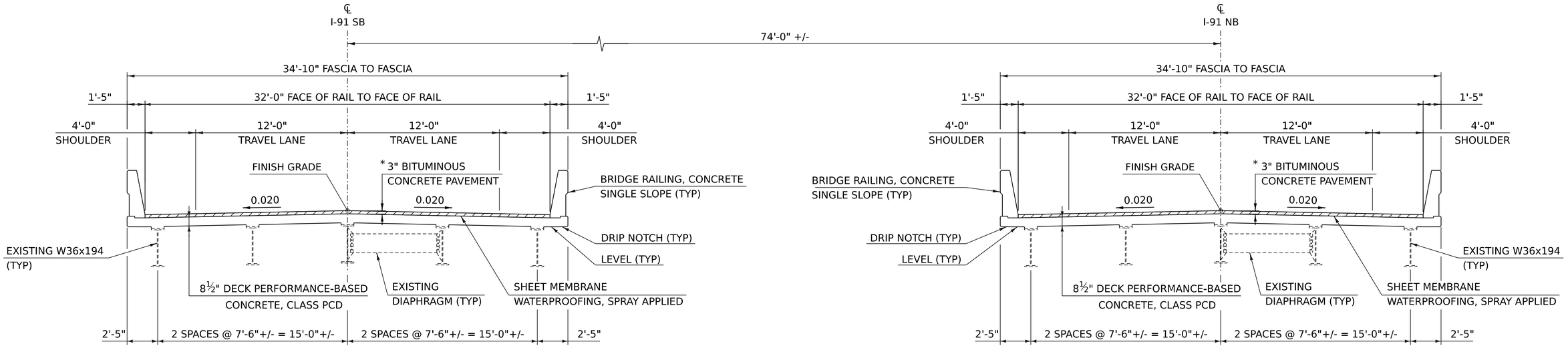


SPENCER BROOK
RIGHT SLOPE PROTECTION

STA. 901+50 - STA. 902+25
STA. 914+00 - STA 914+75
SCALE: ¼" = 1'-0"

HNTB

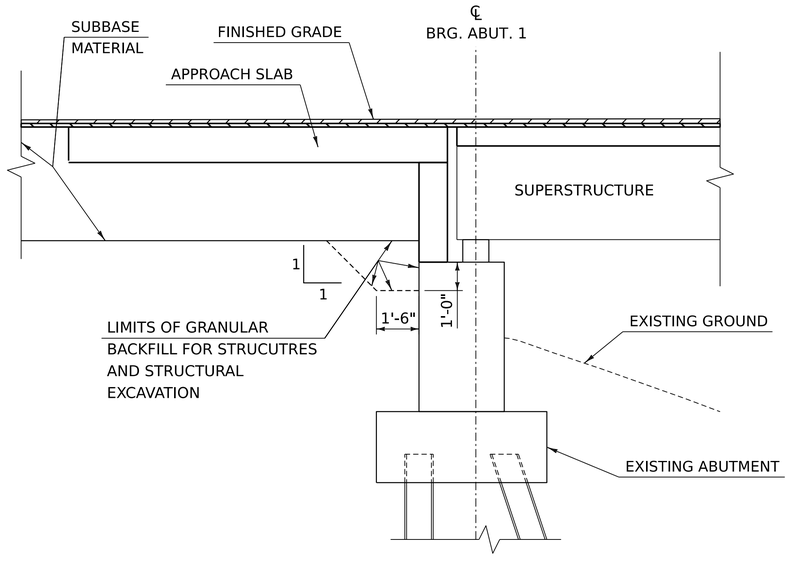
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
TYPICAL SECTIONS 10	SHEET 15 OF 922



BRIDGE 25 N/S PROPOSED TYPICAL SECTION

SCALE ¼" = 1'-0"

* BITUMINOUS CONCRETE PAVEMENT, TYPE IVSB, QA TIER I (2 LIFTS)



TYPICAL ABUTMENT EARTHWORK SECTION

NOT TO SCALE

NORTHBOUND AND SOUTHBOUND SIMILAR

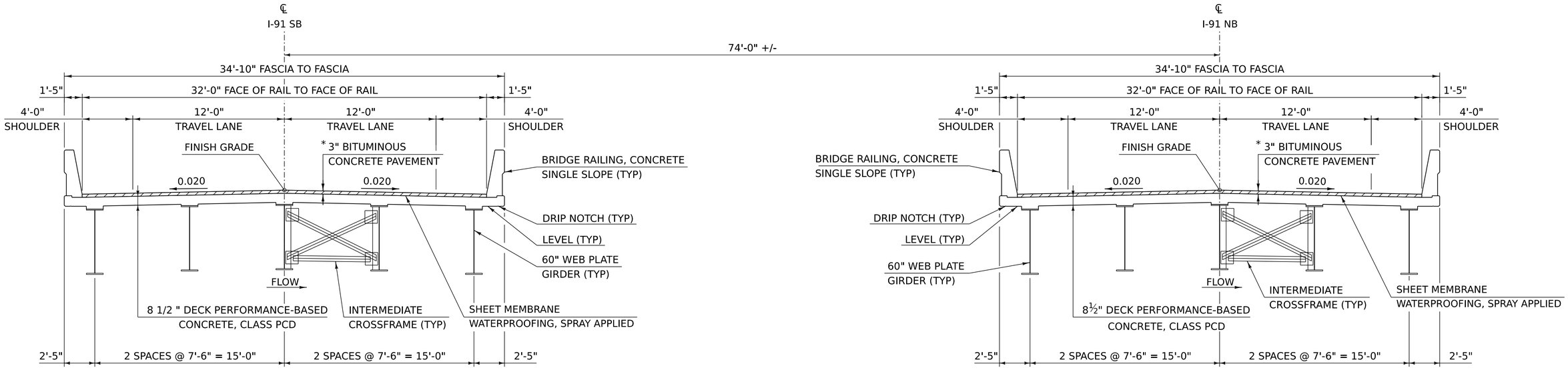
NOTES:

1. ACTUAL LIMITS OF STRUCTURE EXCAVATION TO BE DETERMINED BY THE CONTRACTOR, HOWEVER, ONLY THE EXCAVATION BETWEEN THE LIMITS SHOWN WILL BE PAID FOR UNDER ITEM 204.2500 "STRUCTURE EXCAVATION". EXCAVATION BY THE CONTRACTOR OUTSIDE THESE LIMITS WILL BE AT THE EXPENSE OF THE CONTRACTOR.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

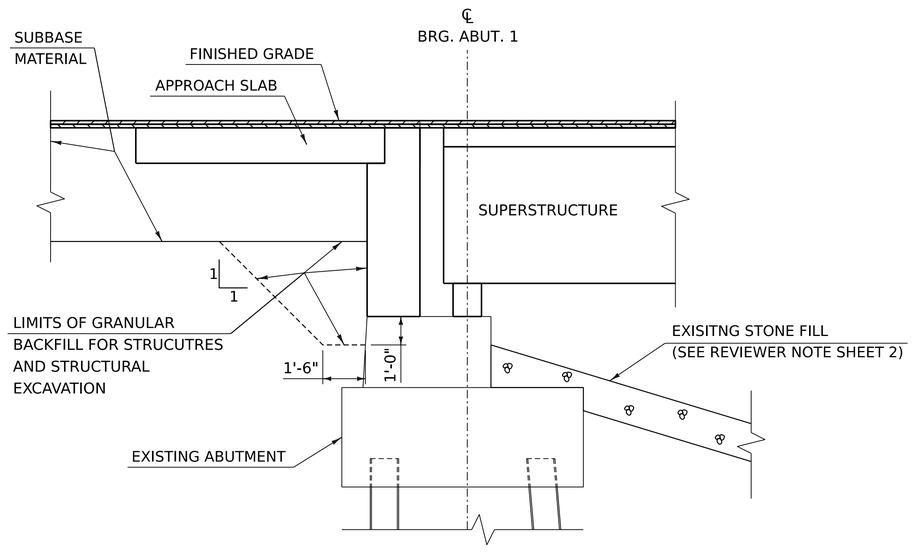
FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	E. BEAUSOLEIL
DESIGNED BY:	J. MCCAULEY	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 11		SHEET	16 OF 922



BRIDGE 26 N/S PROPOSED TYPICAL SECTION

SCALE ¼" = 1'-0"

* BITUMINOUS CONCRETE PAVEMENT, TYPE IVSB, QA TIER I (2 LIFTS)



TYPICAL ABUTMENT EARTHWORK SECTION

NOT TO SCALE

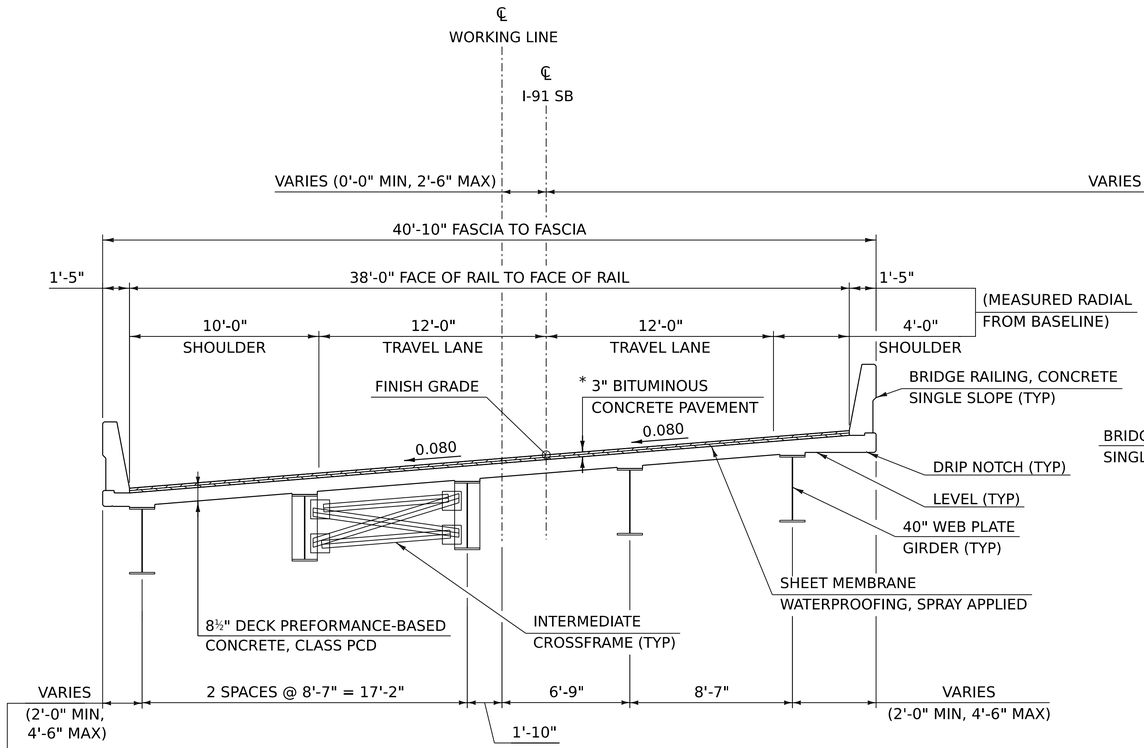
NORTHBOUND AND SOUTHBOUND SIMILAR

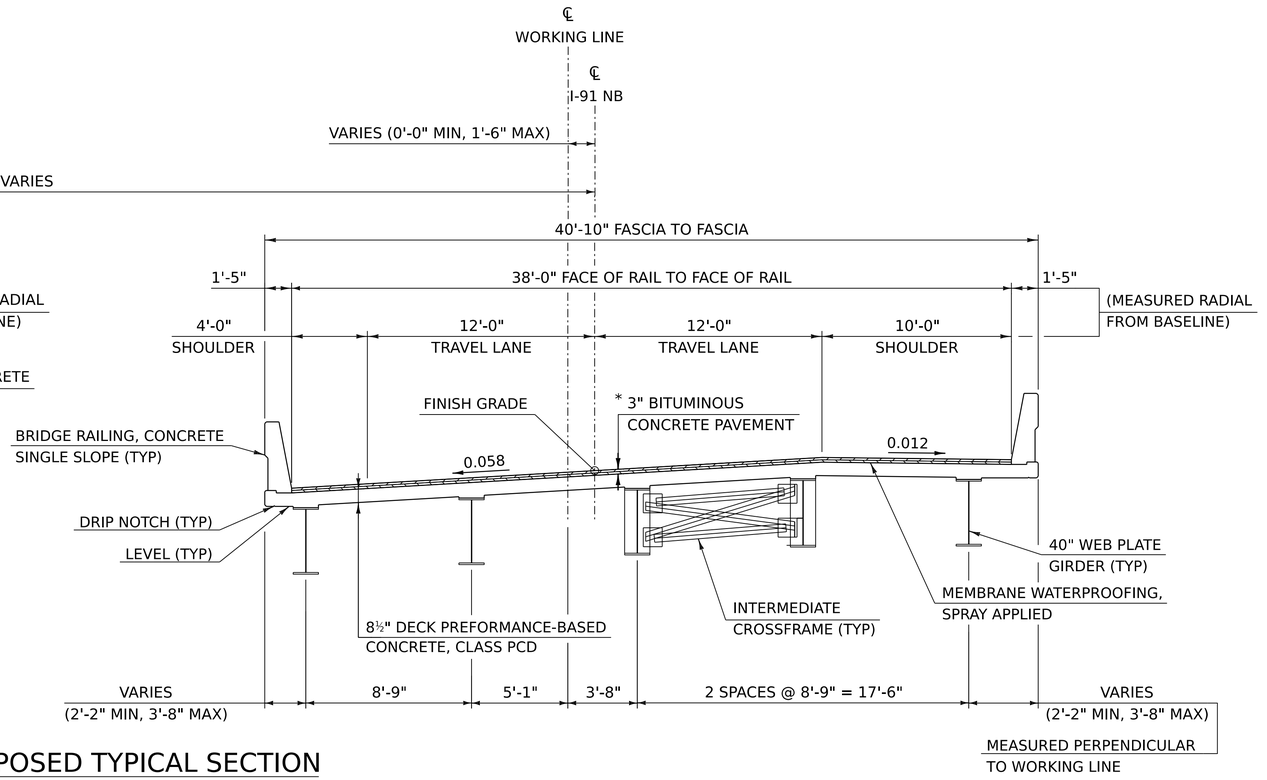
NOTES:

1. ACTUAL LIMITS OF STRUCTURE EXCAVATION TO BE DETERMINED BY THE CONTRACTOR, HOWEVER, ONLY THE EXCAVATION BETWEEN THE LIMITS SHOWN WILL BE PAID FOR UNDER ITEM 204.2500 "STRUCTURE EXCAVATION". EXCAVATION BY THE CONTRACTOR OUTSIDE THESE LIMITS WILL BE AT THE EXPENSE OF THE CONTRACTOR.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574typ.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	E. BEAUSOLEIL
DESIGNED BY:	J. MCCAULEY	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 12		SHEET 17	OF 922

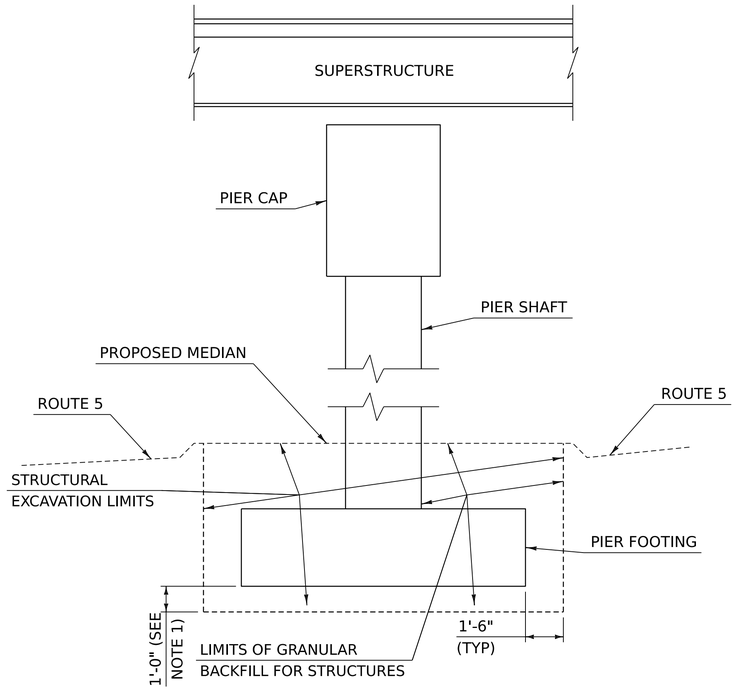




BRIDGE 28 N/S PROPOSED TYPICAL SECTION

SCALE ¼" = 1'-0"

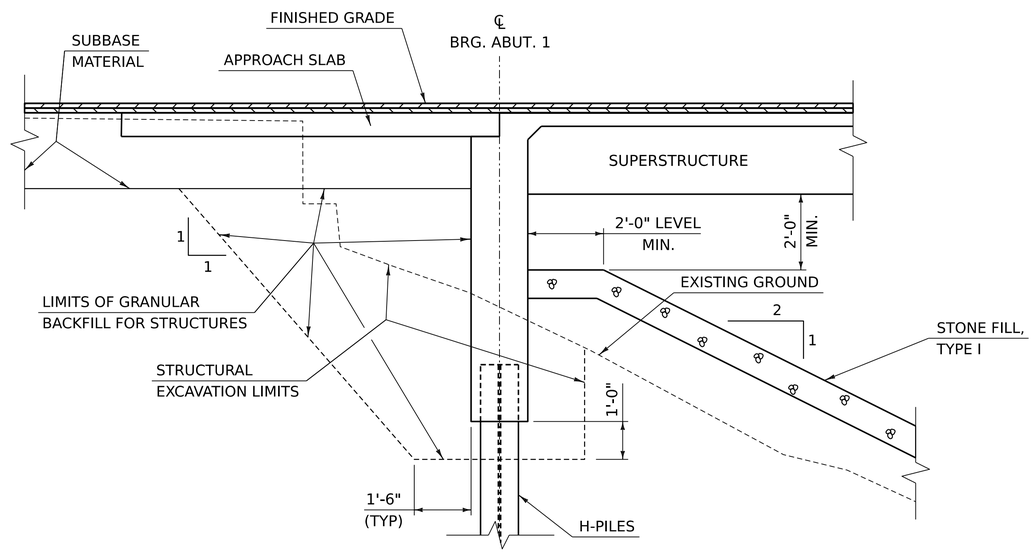
* BITUMINOUS CONCRETE PAVEMENT, TYPE IVSB, QA TIER I (2 LIFTS)



TYPICAL PIER EARTHWORK SECTION

NOT TO SCALE

NORTHBOUND AND SOUTHBOUND SIMILAR



TYPICAL INTEGRAL ABUTMENT EARTHWORK SECTION

NOT TO SCALE

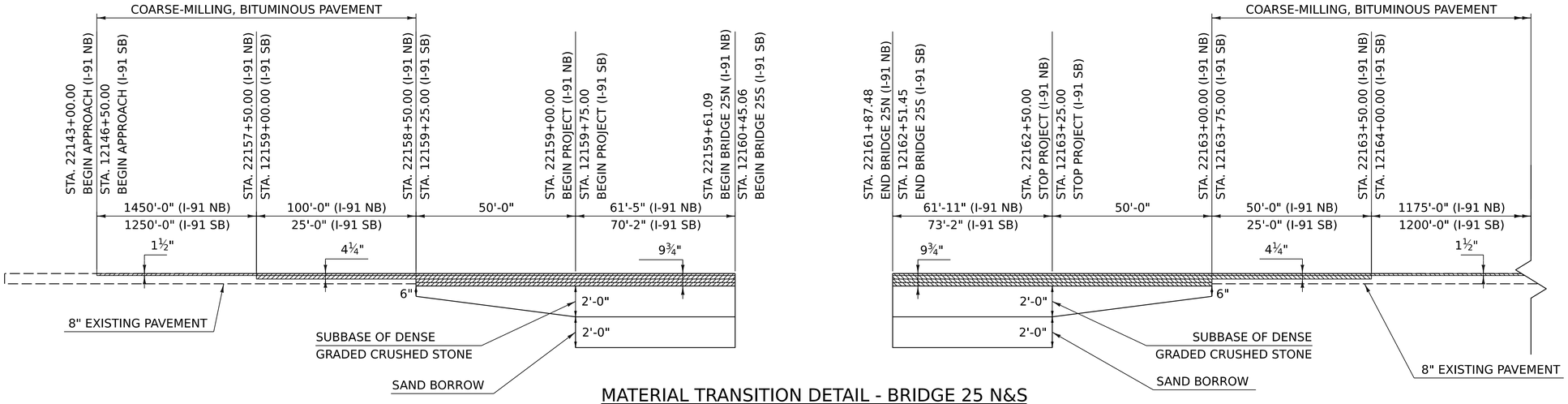
NORTHBOUND AND SOUTHBOUND SIMILAR

NOTES:

1. ONE FOOT UNDERCUT AS DETERMINED NECESSARY BY ENGINEER.
2. ACTUAL LIMITS OF STRUCTURE EXCAVATION TO BE DETERMINED BY THE CONTRACTOR, HOWEVER, ONLY THE EXCAVATION BETWEEN THE LIMITS SHOWN WILL BE PAID FOR UNDER ITEM 204.2500 "STRUCTURE EXCAVATION". EXCAVATION BY THE CONTRACTOR OUTSIDE THESE LIMITS WILL BE AT THE EXPENSE OF THE CONTRACTOR.

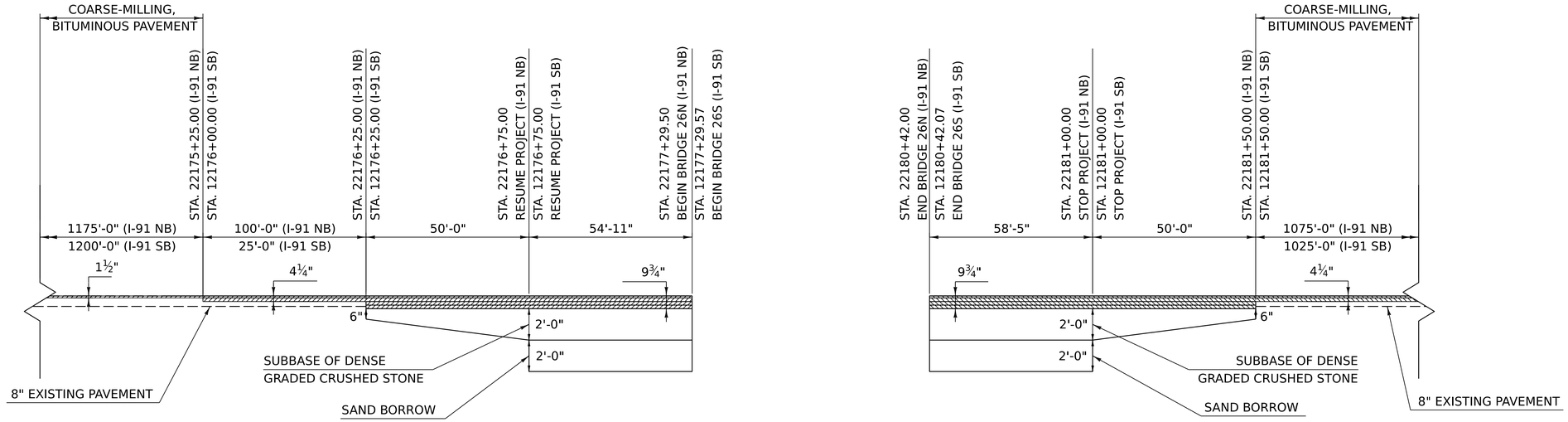
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	E. BEAUSOLEIL
DESIGNED BY:	J. MCCAULEY	CHECKED BY:	J. OLUND
TYPICAL SECTIONS 13		SHEET 18	OF 922



MATERIAL TRANSITION DETAIL - BRIDGE 25 N&S

NOT TO SCALE
(ALONG CENTERLINE)

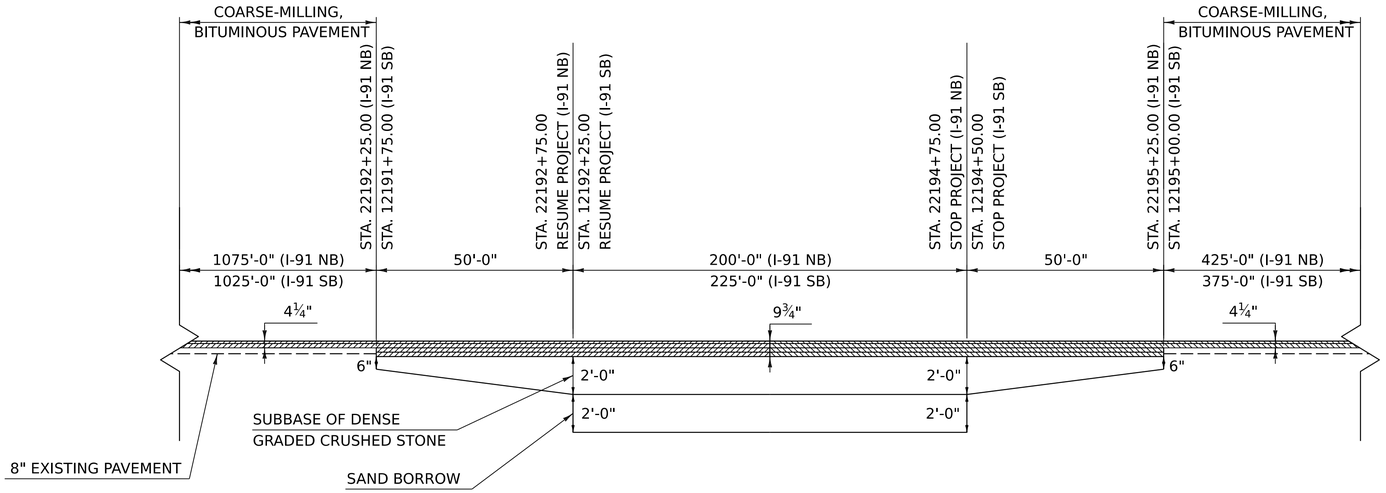


MATERIAL TRANSITION DETAIL - BRIDGE 26 N&S

NOT TO SCALE
(ALONG CENTERLINE)

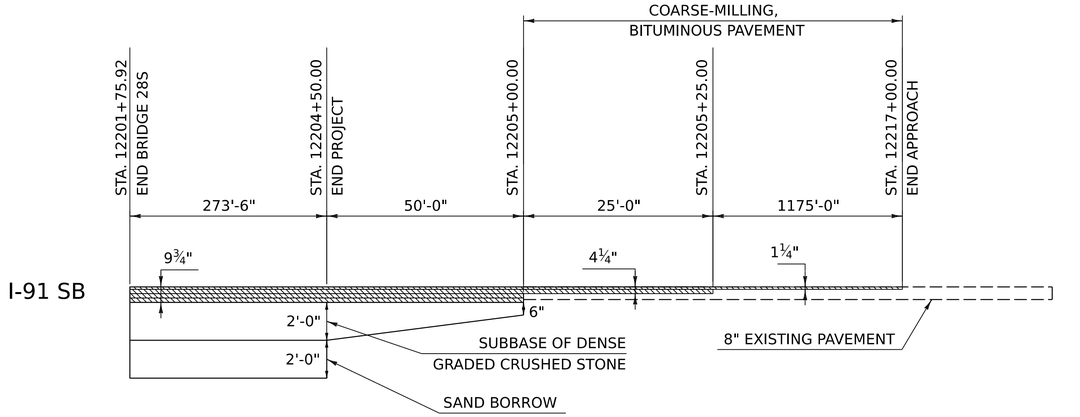
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
MATERIAL TRANSITION DETAILS 1	SHEET 19 OF 922

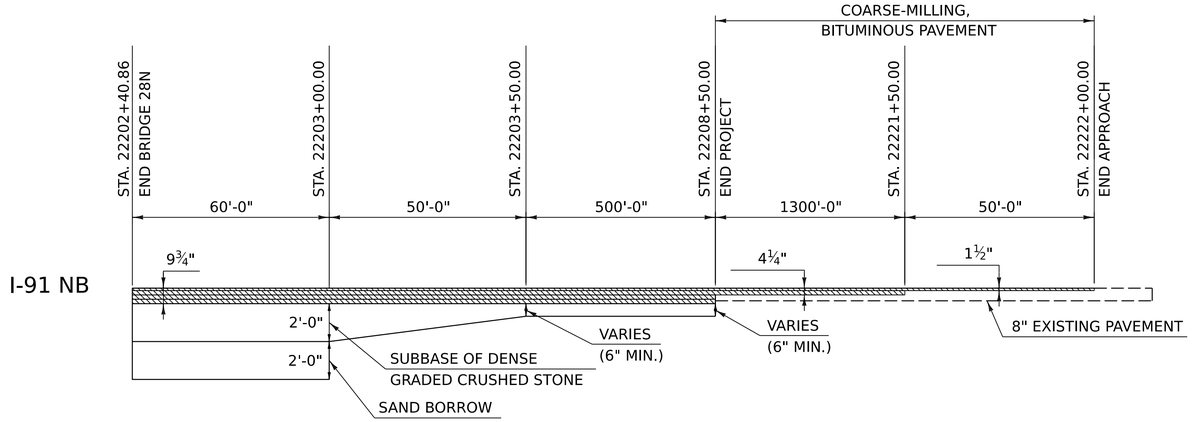
HNTB



MATERIAL TRANSITION DETAIL - BRIDGE 27 N&S

NOT TO SCALE
(ALONG CENTERLINE)



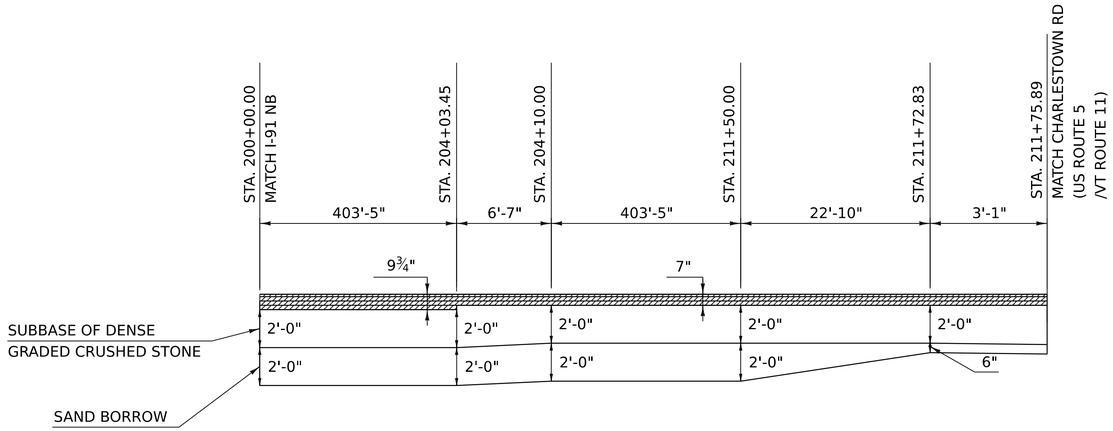


MATERIAL TRANSITION DETAIL - BRIDGE 28 N&S

NOT TO SCALE
(ALONG CENTERLINE)

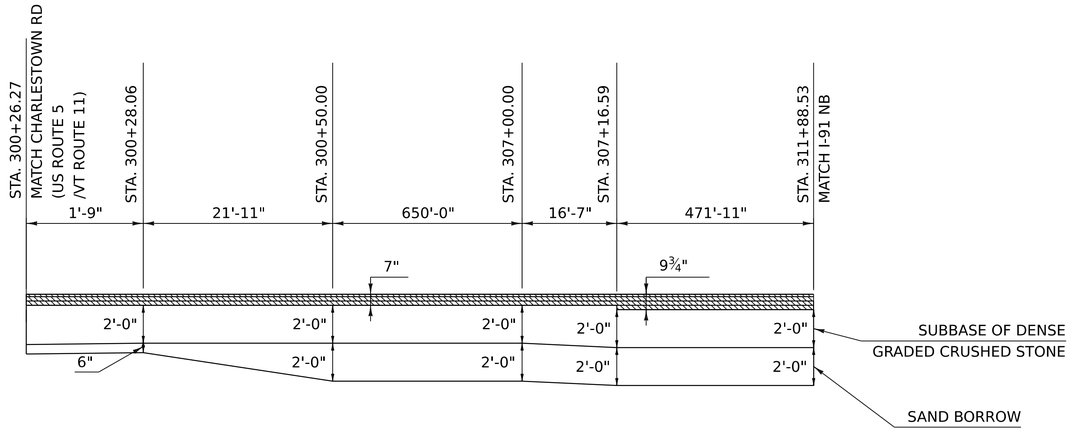
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
MATERIAL TRANSITION DETAILS 2	SHEET 20 OF 922

HNTB



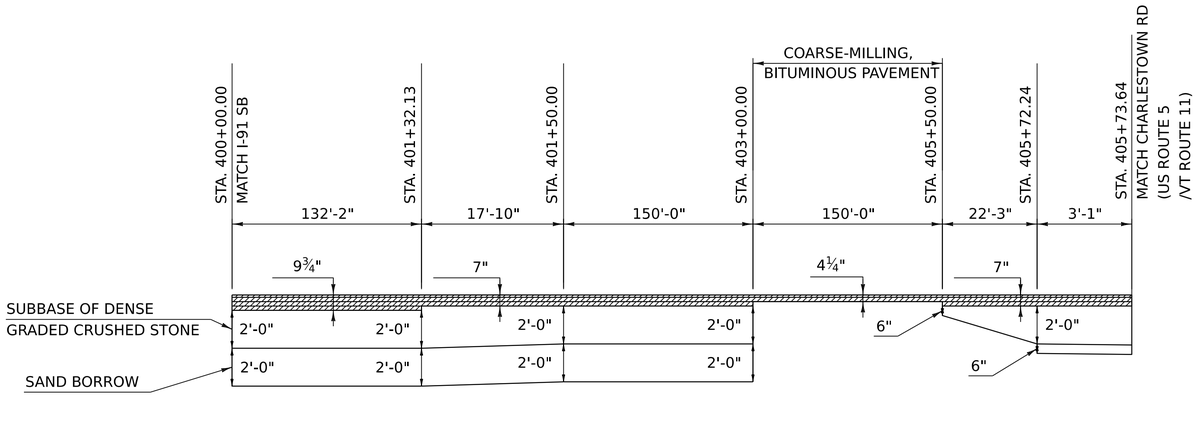
MATERIAL TRANSITION DETAIL - NB OFF RAMP

NOT TO SCALE
(ALONG CENTERLINE)



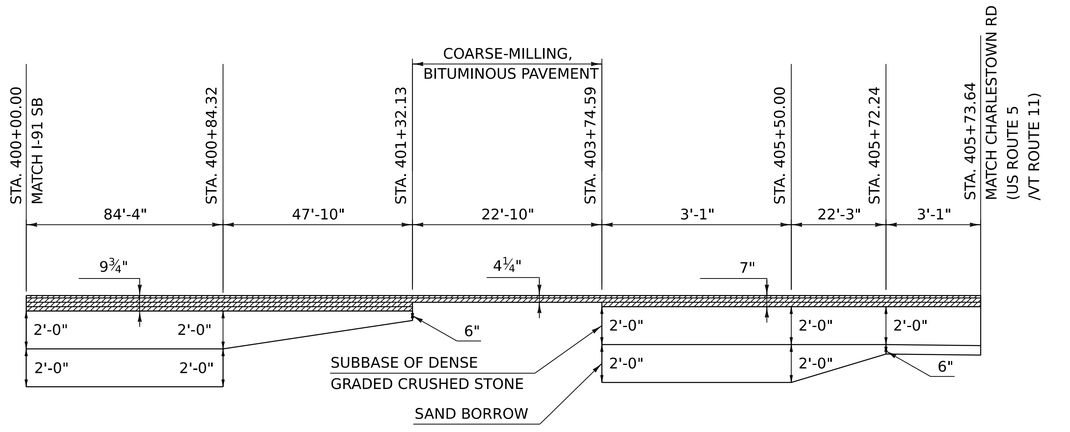
MATERIAL TRANSITION DETAIL - NB ON RAMP

NOT TO SCALE
(ALONG CENTERLINE)



MATERIAL TRANSITION DETAIL - SB ON RAMP

NOT TO SCALE
(ALONG CENTERLINE)



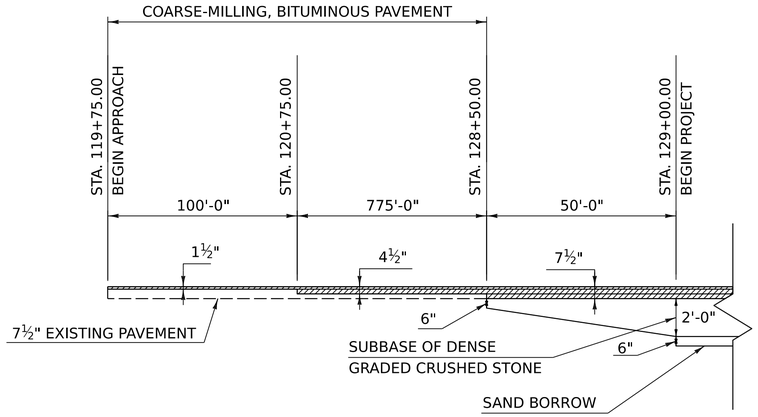
MATERIAL TRANSITION DETAIL - SB ON RAMP

NOT TO SCALE
(ALONG RIGHT EDGE OF TRAVELWAY)

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

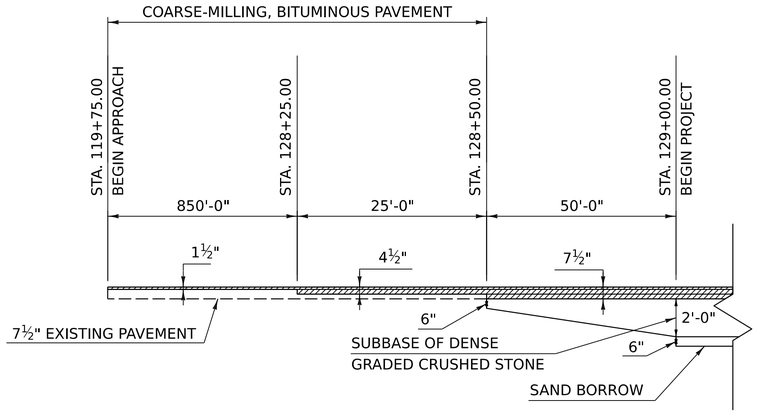
FILE NAME:	z12a574typ.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	J. OLUND
MATERIAL TRANSITION DETAILS 3		SHEET	21 OF 922

HNTB



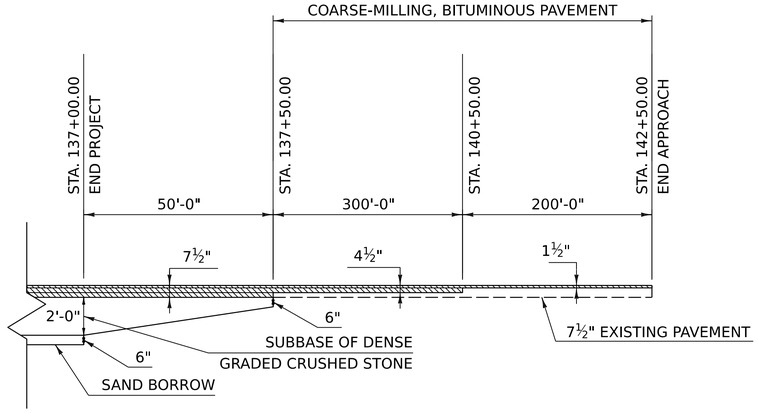
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
NORTHBOUND LANE BEGIN APPROACH
MATERIAL TRANSITION DIAGRAM

NOT TO SCALE
(ALONG NB INSIDE EDGE OF PAVEMENT)



CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
SOUTHBOUND LANE BEGIN APPROACH
MATERIAL TRANSITION DIAGRAM

NOT TO SCALE
(ALONG SB INSIDE EDGE OF PAVEMENT)

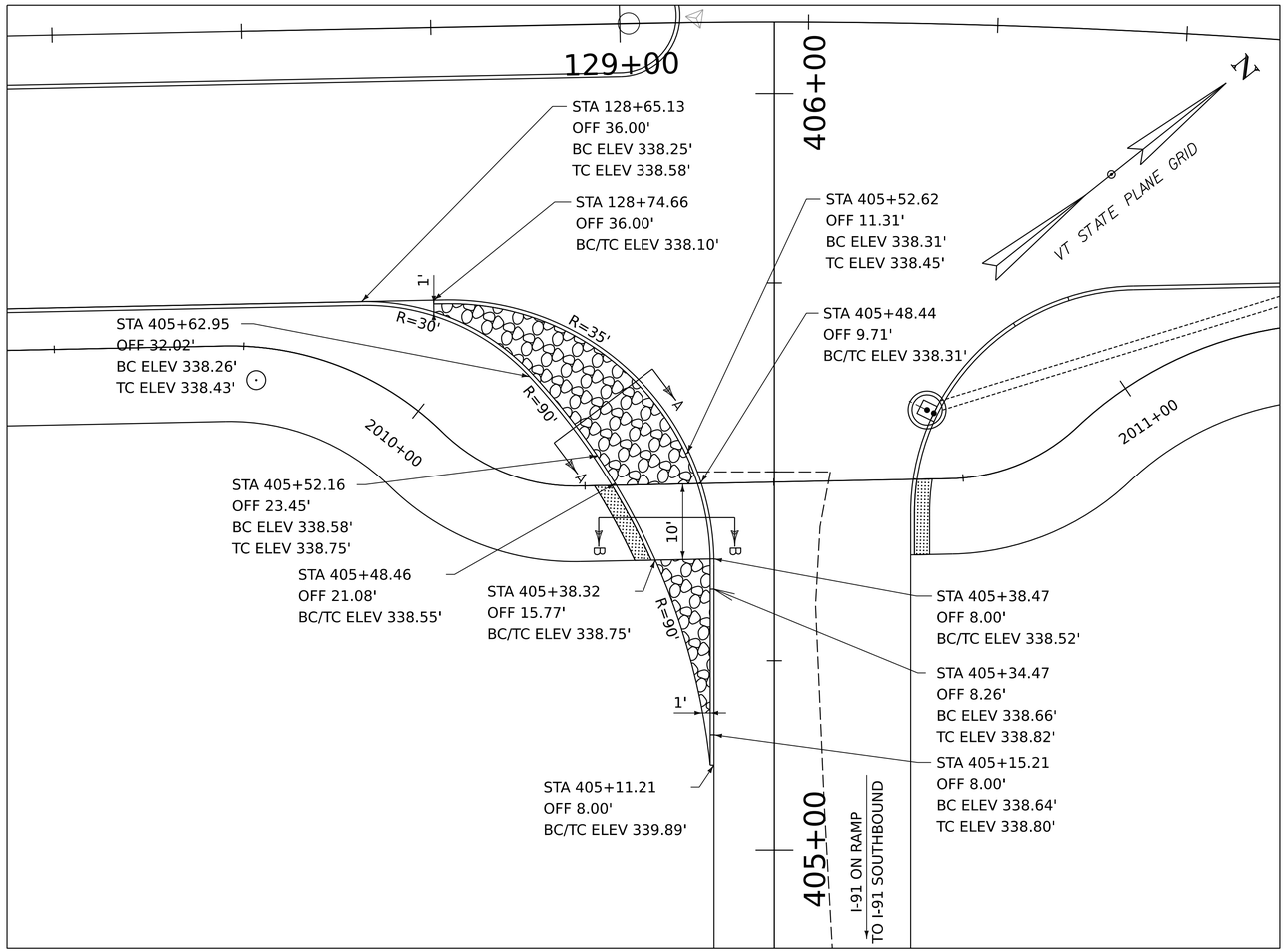


CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
END APPROACH
MATERIAL TRANSITION DIAGRAM

NOT TO SCALE
(ALONG CENTERLINE)

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574typ.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: J. OLUND
MATERIAL TRANSITION DETAILS 4	SHEET 22 OF 922

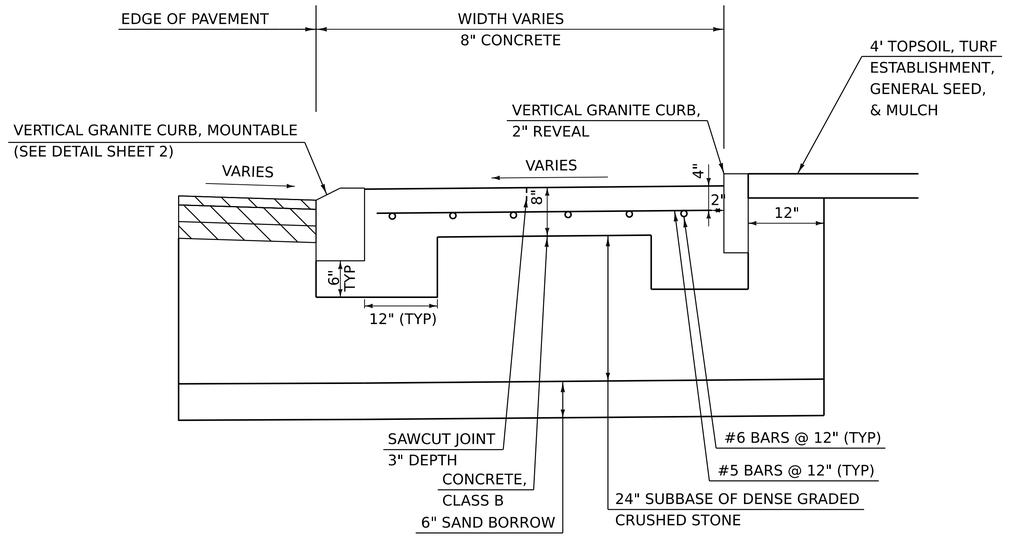
HNTB



STAMPED CONCRETE ISLAND, 8 INCH DETAIL

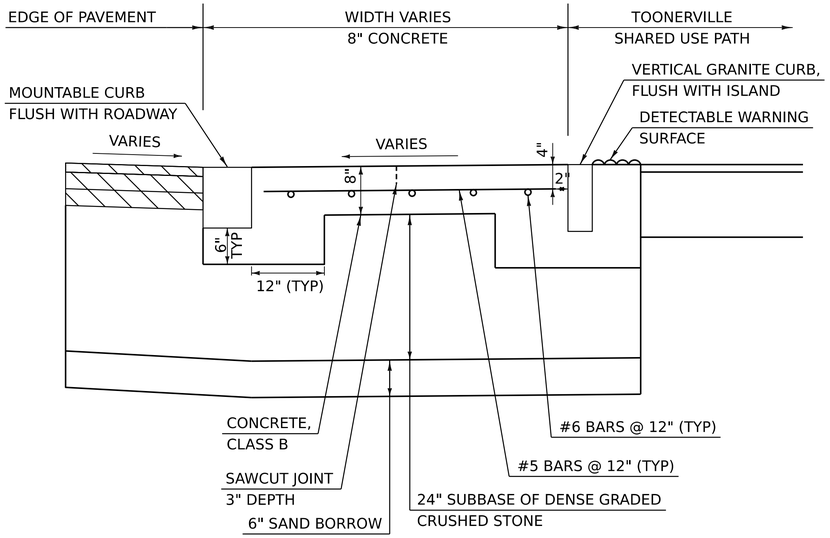
SCALE 1" = 10'

SEE DETAIL SHEET 2 FOR VERTICAL GRANITE CURB, MOUNTABLE DETAIL.
SEE DETAIL SHEET 2 FOR STAMPED CONCRETE ISLAND, 8 INCH NOTES.



STAMPED CONCRETE ISLAND, 8 INCH SECTION A-A

NOT TO SCALE

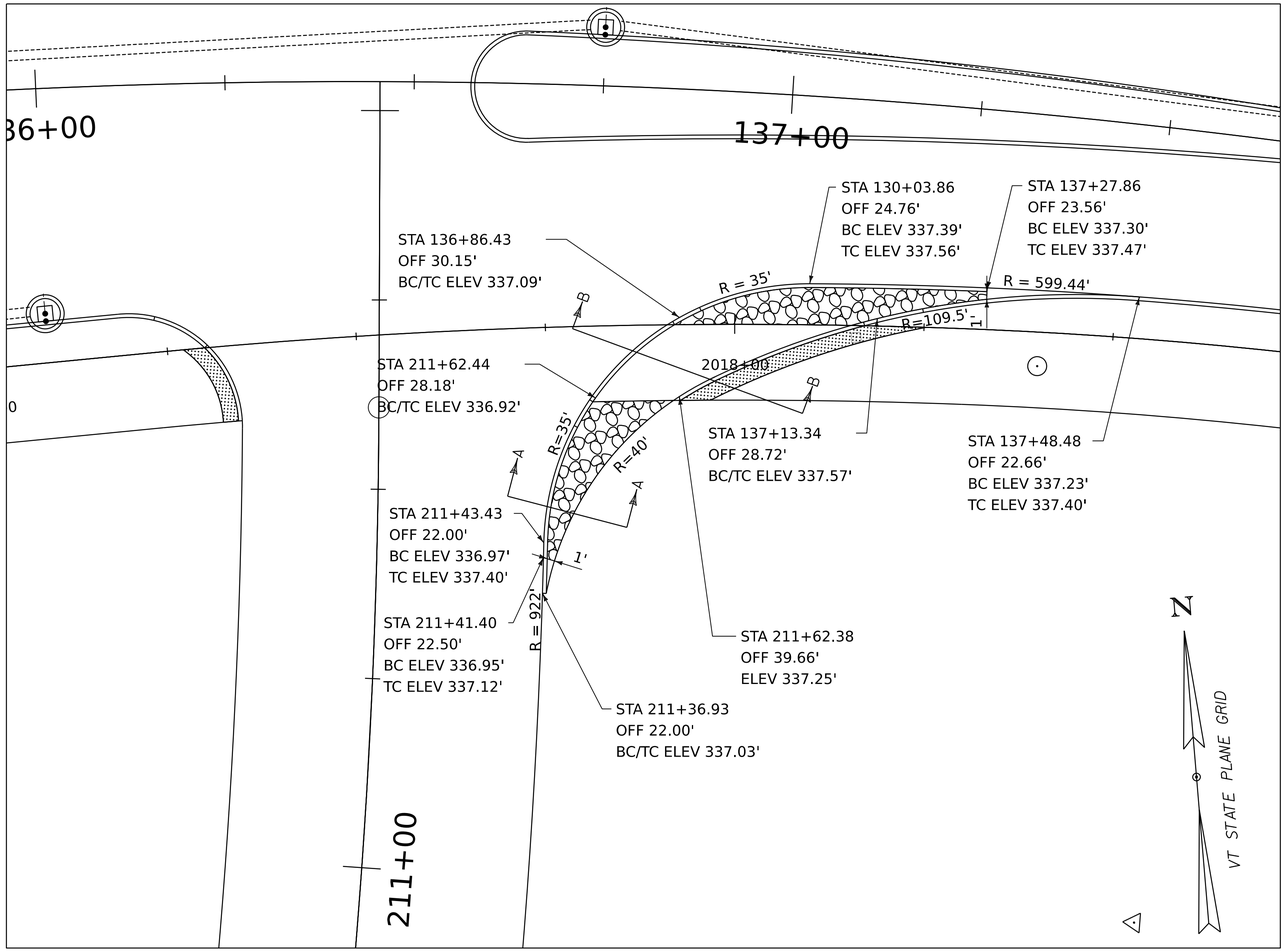


STAMPED CONCRETE ISLAND, 8 INCH SECTION B-B

NOT TO SCALE

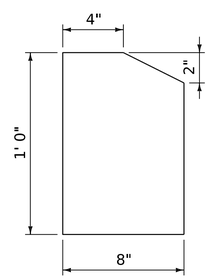
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574frm	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
DETAIL SHEET 1	SHEET 23 OF 922

HNTB



STAMPED CONCRETE ISLAND, 8 INCH DETAIL

SCALE 1" = 10'



VERTICAL GRANITE CURB, MOUNTABLE

NOT TO SCALE

STAMPED CONCRETE ISLAND, 8 INCH NOTES

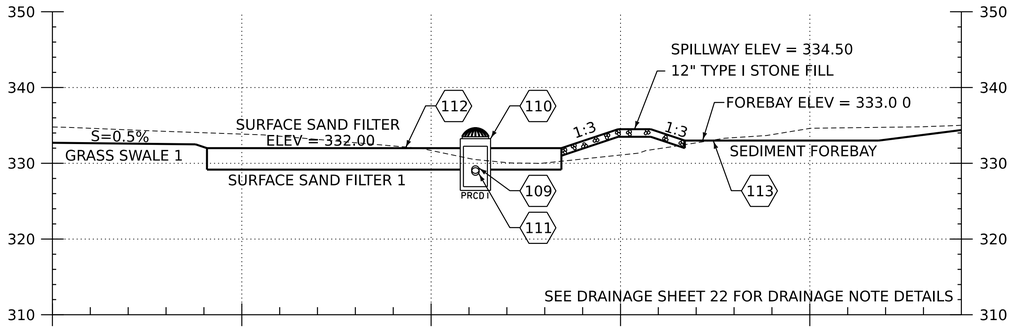
1. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND WILL BE PAID FOR UNDER ITEM 507.1100, "REINFORCING STEEL, LEVEL I (EPOXY)". THE CONTRACTOR SHALL PROVIDE A REINFORCING SCHEDULE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING ANY MATERIAL. THE REINFORCING SCHEDULE SHALL BE PAID UNDER ITEM 507.1100, "REINFORCING STEEL, LEVEL I (EPOXY COATED)."
2. THE COLOR OF THE CONCRETE AGGREGATE SHALL MATCH THAT OF THE CONCRETE.
3. THE STAMPED PATTERN SHALL MIMIC RANDOM FIELD STONE.
4. CONCRETE, CLASS B SHALL BE PAID FOR UNDER ITEM 618.4108, STAMPED CONCRETE ISLAND, 8 INCH.
5. THE SURFACE OF THE SUBBASE OF DENSE GRADED CRUSHED STONE SHALL BE ROUGHENED DURING PREPERATION OF THE ISLAND INSTALLATION. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 618.4108, STAMPED CONCRETE ISLAND, 8 INCH.
6. THREE INCH DEPTH SAWN JOINTS IN THE CONCRETE ISLAND WILL BE CONSIDERED INCIDENTAL TO ITEM 618.4108, STAMPED CONCRETE ISLAND, 8 INCH. LOCATIONS OF SAWN JOINTS WILL BE DETERMINDED IN THE FIELD AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO CUTTING.
7. ONE-HALF INCH CORK FILLER PLACED ON THE FRONT AND BACK OF CURB SHALL BE CONSIDERED INCIDENTAL TO ITEM 618.4108, STAMPED CONCRETE ISLAND, 8 INCH.
8. THE APRON SHALL NOT BE STAMPED WITHIN THE 10' SHARED USE PATH.

SEE DETAIL SHEET 1 FOR SECTION A-A AND SECTION B-B.

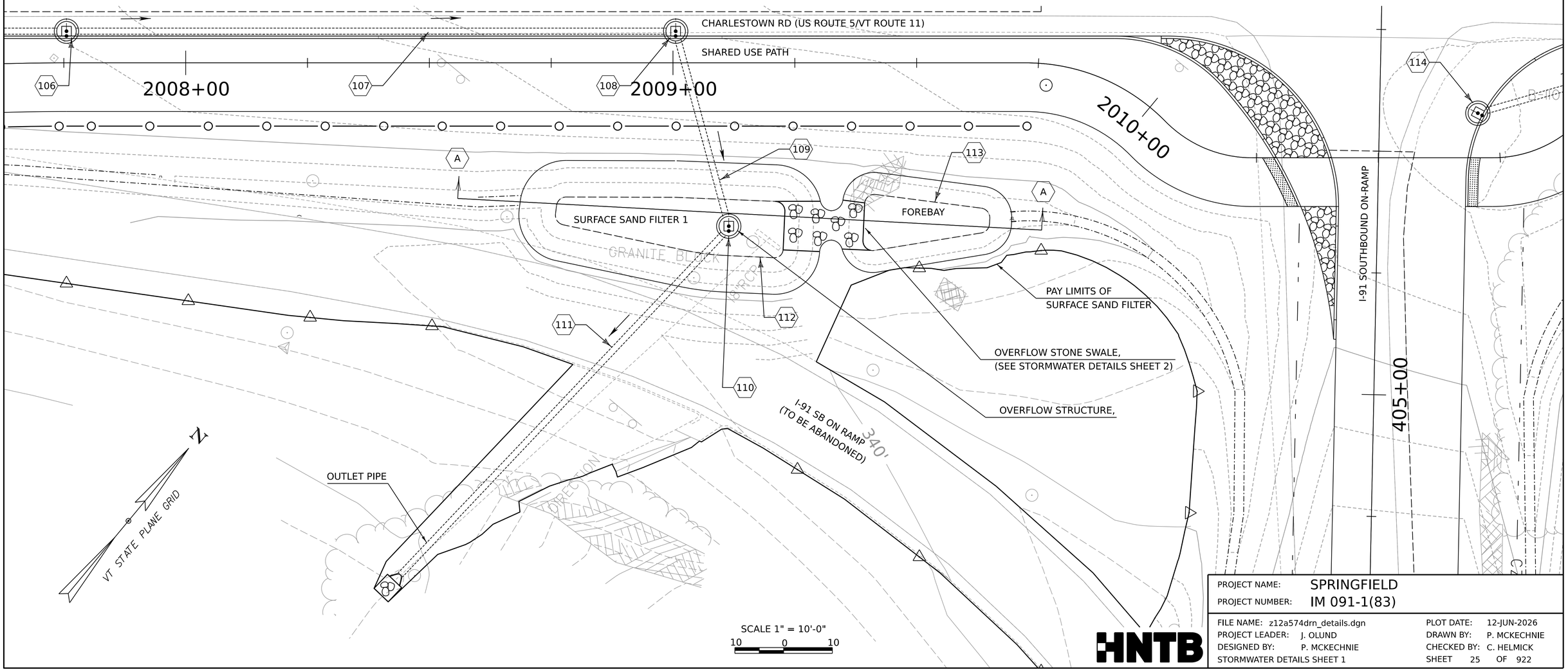
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574frm	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
DETAIL SHEET 2		SHEET	24 OF 922

HNTB

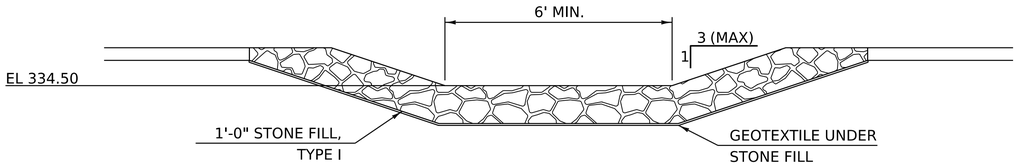


SECTION A-A

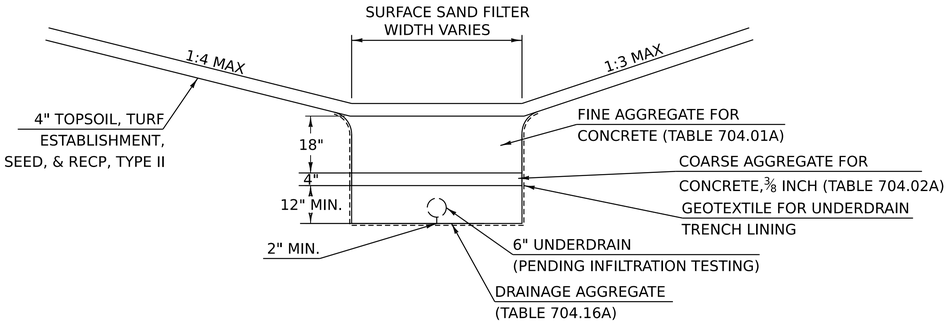


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574drn_details.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
STORMWATER DETAILS SHEET 1	SHEET 25 OF 922

HNTB



SURFACE SAND FILTER
SEDIMENT FOREBAY SPILLWAY TYPICAL
NOT TO SCALE



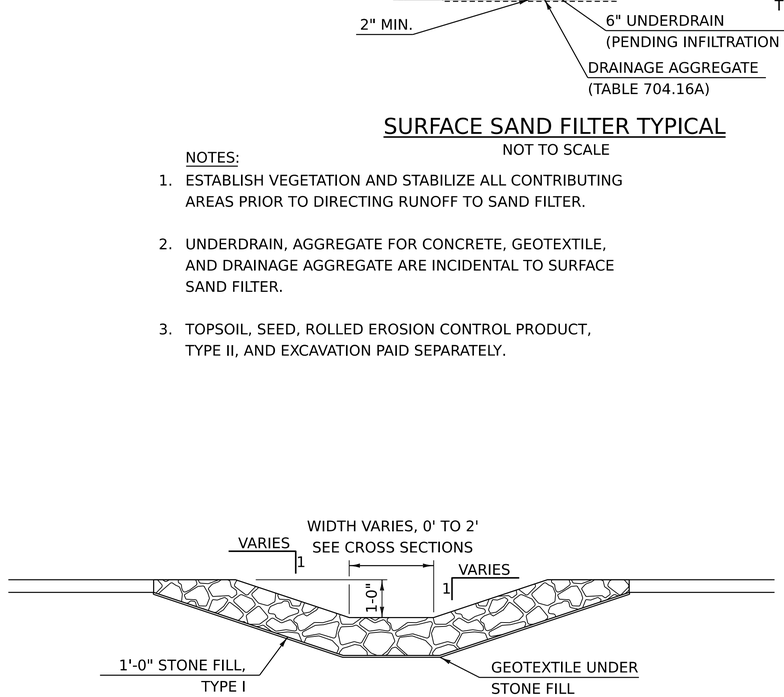
SURFACE SAND FILTER TYPICAL
NOT TO SCALE

NOTES:

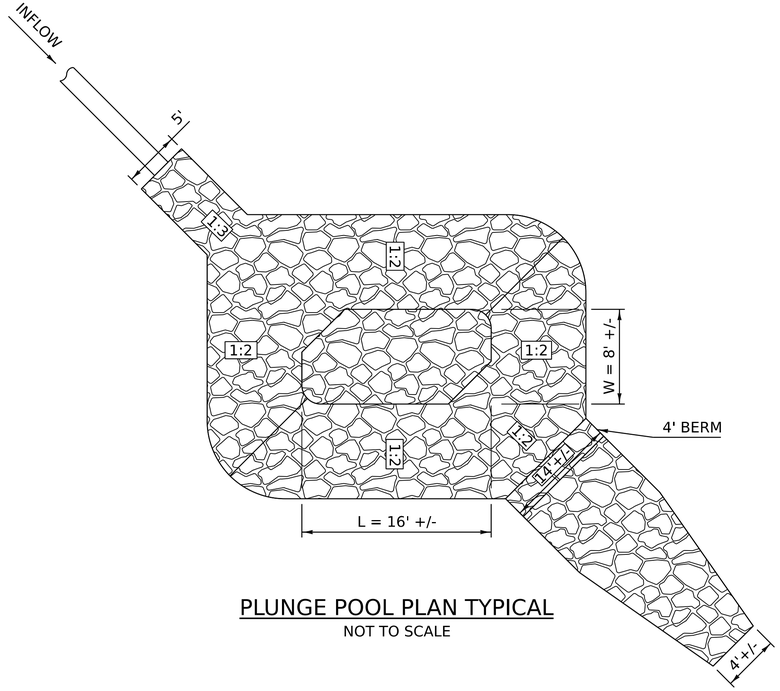
1. ESTABLISH VEGETATION AND STABILIZE ALL CONTRIBUTING AREAS PRIOR TO DIRECTING RUNOFF TO SAND FILTER.

2. UNDERDRAIN, AGGREGATE FOR CONCRETE, GEOTEXTILE, AND DRAINAGE AGGREGATE ARE INCIDENTAL TO SURFACE SAND FILTER.

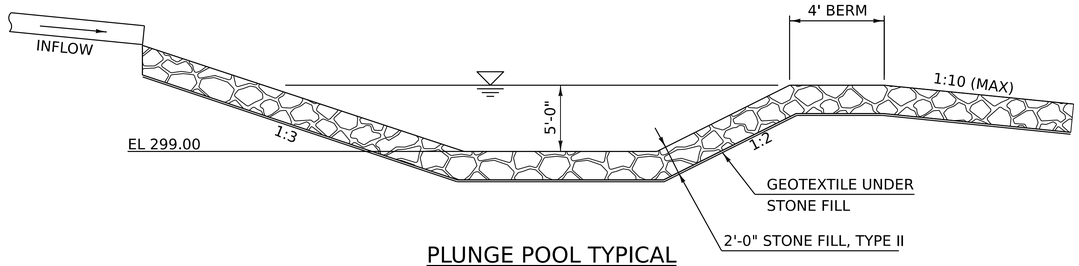
3. TOPSOIL, SEED, ROLLED EROSION CONTROL PRODUCT, TYPE II, AND EXCAVATION PAID SEPARATELY.



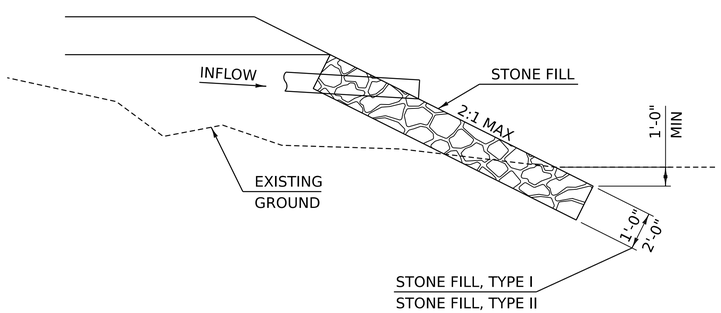
STONE LINED SWALE TYPICAL
NOT TO SCALE



PLUNGE POOL PLAN TYPICAL
NOT TO SCALE



PLUNGE POOL TYPICAL
NOT TO SCALE

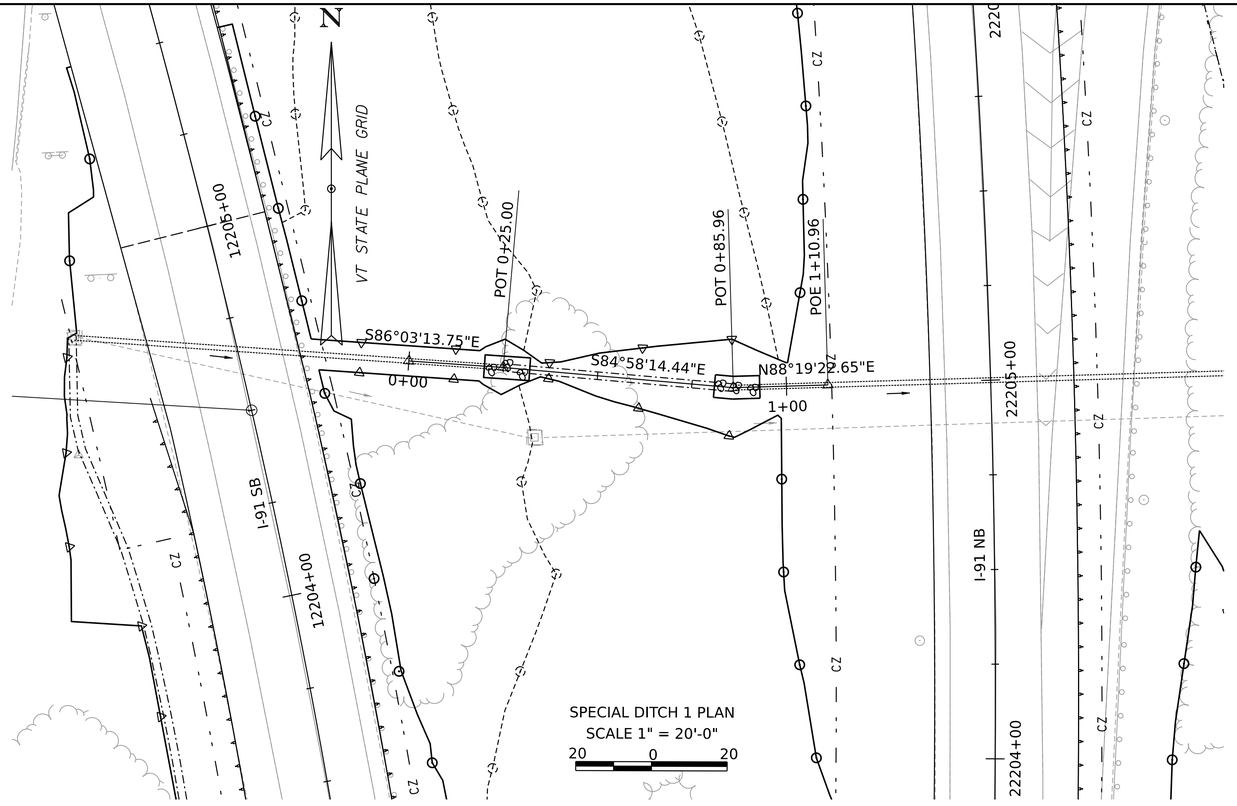


STONE FILL DOWNSPOUT KEYIN DETAIL
NOT TO SCALE

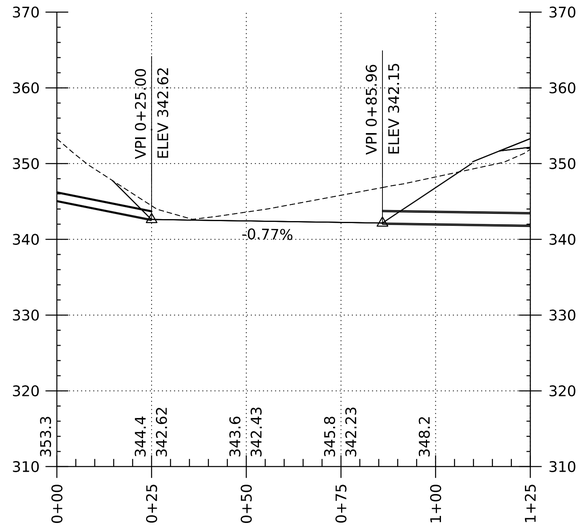
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_drn_details.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
STORMWATER DETAILS SHEET 2		SHEET	26 OF 922

HNTB

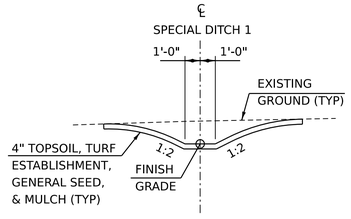


SPECIAL DITCH 1 PLAN
SCALE 1" = 20'-0"
20 0 20



SPECIAL DITCH 1 PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



SPECIAL DITCH 1 SECTION

NOT TO SCALE

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574Special_Ditch_Details.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SPECIAL DITCH DETAIL SHEET		SHEET	27 OF 922

HNTB

GENERAL

1. TEMPORARY REMOVAL OF THE EXISTING RUMBLE STRIPS SHALL BE INCIDENTAL TO ITEM 641.1100 TRAFFIC CONTROL, ALL-INCLUSIVE.

2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS AND CROSS SECTIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. THE LOCATION OF EXISTING DRAINAGE BETWEEN SURVEYED POINTS SHOWN ON THE PLANS AND CROSS SECTIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.

3. NO EXISTING DRAINAGE PIPE OR STRUCTURE SHALL BE ABANDONED, REMOVED, OR PLUGGED WITHOUT PRIOR APPROVAL OF THE ENGINEER. PIPES TO BE ABANDONED SHALL BE FILLED WITH ITEM 541.4500 FLOWABLE FILL.

4. EXISTING DRAINAGE ALONG THE RAMPS THAT IS NOT SHOWN AS REMOVE, REPLACE OR OTHERWISE MODIFIED SHALL REMAIN IN PLACE.

5. EXISTING CULVERTS AND UNDERDRAINS TO REMAIN IN PLACE SHALL BE CLEANED OUT AS DIRECTED BY THE RESIDENT. WORK SHALL BE PAID UNDER ITEM 601.9950 CLEANING CULVERT PIPE, IN-PLACE (0 TO 24 INCHES, INCLUSIVE).

6. THE EXISTING NORTHBOUND OFF RAMP HAS BEEN DESIGNATED AS A WASTE STORAGE AREA AS SHOWN IN THE PLANS. THE CONTRACTOR MAY PERMANENTLY PLACE EXCESS WASTE MATERIAL WITHIN THIS AREA. FINAL SLOPES WITHIN THIS AREA SHALL NOT EXCEED 2:1 AND BE GRADED IN SUCH A WAY TO PROMOTE SHEET FLOW ACROSS THE AREA. THE AREA SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLANS.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574pn.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
PROJECT NOTES

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 28 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1251 - BRIDGE NO. 5 BRIDGE 28-1G	1261 - BRIDGE NO. 6 BRIDGE 28-1C	1271 - BRIDGE NO. 7 BRIDGE 28-1N	1999 - FULL C.E. ITEMS	OPTION

TOTALS

GRAND TOTAL	FINAL

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
ACRE	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.1100	
CY	COMMON EXCAVATION	203.1500	
CY	SOLID ROCK EXCAVATION	203.1600	
CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.2800	
CY	SAND BORROW	203.3100	
LF	SHOULDER BERM REMOVAL	203.4000	
CY	TRENCH EXCAVATION OF EARTH	204.2000	
CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.2200	
SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.1000	
LF	MILLED RUMBLE STRIPS, SHOULDER	213.2010	
LS	TEMPORARY ROADWAY WIDENING	240.0100002	
LS	DIVIDED HIGHWAY CROSSOVER (I-91 PHASE 1A/1B CROSSOVER-S)	240.0100004	
LS	DIVIDED HIGHWAY CROSSOVER (I-91 PHASE 1A/1B CROSSOVER-N, I-91 PHASE 2B/3B CR	240.0100004	
LS	DIVIDED HIGHWAY CROSSOVER (TEMPORARY I-91 NB OFF RAMP)	240.0100004	
LS	DIVIDED HIGHWAY CROSSOVER (I-91 PHASE 2B CROSSOVER-N)	240.0100004	
LS	DIVIDED HIGHWAY CROSSOVER (TEMPORARY I-91 SB ON RAMP)	240.0100004	
LS	DIVIDED HIGHWAY CROSSOVER (I-91 PHASE 3B CROSSOVER-N)	240.0100004	
CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.3500	
TON	AGGREGATE SHOULDERS, RAP	402.1300	
CWT	TACK COAT, EMULSIFIED ASPHALT	404.1100	
TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER I	406.0210	
TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER I	406.0410	
SY	BITUMINOUS CONCRETE PAVEMENT, NON-PAVER PLACED, TYPE IVS	406.3400	
DL	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)	406.9100	
DL	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)	406.9200	
DL	PAY ADJUSTMENT, BCP, LONGITUDINAL JOINT DENSITY (N.A.B.I.)	406.9300	
DL	PAY ADJUSTMENT, BCP, PAVEMENT ROUGHNESS (N.A.B.I.)	406.9400	
TON	MATERIAL TRANSFER VEHICLE	410.1000	
CY	PERFORMANCE-BASED CONCRETE, CLASS PCS	501.3800	
LF	CONCRETE SINGLE SLOPE BARRIER	525.5400001	
EACH	REMOVAL OF STRUCTURE (BRIDGE 28-1G)	529.1500	
EACH	PARTIAL REMOVAL OF STRUCTURE (BRIDGE 28-1C)	529.2000	
LS	PRECAST CONCRETE STRUCTURE (BRIDGE 28-1N) (14 FT X 14 FT X 34 FT INLET EXTENS	540.1000	
LS	PRECAST CONCRETE STRUCTURE (BRIDGE 28-1N) (14 FT X 14 FT X 18 FT OUTLET EXTEI	540.1000	
CY	FLOWABLE FILL	541.4500	
SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I	580.1101	
LF	12 INCH RCP CLASS III	601.0805	
LF	18 INCH RCP CLASS III	601.0815	
LF	24 INCH RCP CLASS III	601.0825	
LF	18 INCH CPEP	601.0915	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
QUANTITY SUMMARY SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: P. SHEDD

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
		1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1251 - BRIDGE NO. 5 BRIDGE 28-1G	1261 - BRIDGE NO. 6 BRIDGE 28-1C	1271 - BRIDGE NO. 7 BRIDGE 28-1N	1999 - FULL C.E. ITEMS	OPTION	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
												LF	24 INCH CPEP	601.0920				
												LF	12 INCH CPEP(SL)	601.2605				
												LF	15 INCH CPEP(SL)	601.2610				
												LF	18 INCH CPEP(SL)	601.2615				
												LF	24 INCH CPEP(SL)	601.2620				
												EACH	12 INCH CPEPES	601.7005				
												EACH	15 INCH CPEPES	601.7010				
												EACH	18 INCH CPEPES	601.7015				
												LF	CLEANING CULVERT PIPE, IN-PLACE (0 TO 24 INCHES, INCLUSIVE)	601.9950				
												EACH	CORING CONCRETE	602.4500				
												EACH	CONCRETE CATCH BASIN WITH CAST IRON GRATE (4 FT DIA.)	604.1000				
												EACH	CONCRETE CATCH BASIN WITH CAST IRON GRATE (5 FT DIA.)	604.1000				
												EACH	CONCRETE CATCH BASIN WITH CAST IRON GRATE (6 FT DIA.)	604.1000				
												EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER	604.2100				
												EACH	CHANGING ELEVATION OF DIS, CATCH BASINS, OR MANHOLES	604.4000				
												EACH	REHABILITATING DIS, CATCH BASINS, OR MANHOLES, CLASS I	604.4101				
												LF	UNDERDRAIN PIPE, 8 INCH	605.1008				
												LF	UNDERDRAIN CARRIER PIPE, 8 INCH	605.2008				
												HR	POWER BROOM RENTAL, TYPE II	608.3002				
												HR	TRUCK-MOUNTED ATTENUATOR	608.4500				
												MGAL	DUST CONTROL WITH WATER	609.1000				
												TON	DUST CONTROL WITH CALCIUM CHLORIDE	609.1500				
												LS	GNSS MACHINE CONTROL GRADING	610.1000				
												EACH	GNSS CONSTRUCTION INSPECTION EQUIPMENT	610.2000				
												LS	GNSS CONSTRUCTION INSPECTION SURFACE MODELS	610.2500				
												CY	E-STONE FILL, TYPE II	613.0602				
												CY	STONE FILL, TYPE I	613.1001				
												CY	STONE FILL, TYPE II	613.1002				
												EACH	TEMPORARY RELOCATION OF STREAM	614.1000				
												LS	IN-WATER SEDIMENT ISOLATION MEASURES	614.2000				
												LF	GRANITE SLOPE EDGING	616.2000				
												LF	VERTICAL GRANITE CURB	616.2100				
												LF	VERTICAL GRANITE CURB, MOUNTABLE	616.2150				
												LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.2702				
												LF	BITUMINOUS CONCRETE CURB, TYPE A	616.3101				
												LF	REMOVING AND RESETTING CURB	616.4000				
												LF	REMOVAL OF EXISTING CURB	616.4100				
												TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.4700				
												SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.1005				
												TON	BITUMINOUS CONCRETE SIDEWALK	618.1500				

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
QUANTITY SUMMARY SHEET 2

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: P. SHEDD

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES

		1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1251 - BRIDGE NO. 5 BRIDGE 28-1G	1261 - BRIDGE NO. 6 BRIDGE 28-1C	1271 - BRIDGE NO. 7 BRIDGE 28-1N	1999 - FULL C.E. ITEMS	OPTION

TOTALS

GRAND TOTAL	FINAL

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
SF	DETECTABLE WARNING SURFACE	618.3000	
SY	STAMPED CONCRETE ISLAND, 8 INCH	618.4108	
EACH	BOLLARDS	619.1400	
LF	CHAIN-LINK FENCE, 6 FOOT	620.1006	
EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FOOT	620.2006	
LF	REMOVAL OF EXISTING FENCE	620.5500	
LF	REMOVAL OF GUARDRAIL	621.0100	
LF	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.0200	
LF	STEEL BEAM GUARDRAIL	621.1060	
EACH	ANCHOR FOR STEEL BEAM GUARDRAIL, MGS	621.1530	
LF	TEMPORARY TRAFFIC BARRIER	621.2400	
EACH	MTS, MGS, FLARED, TL-3	621.3130	
EACH	ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3	621.7030	
EACH	ENERGY ABSORPTION ATTENUATOR, PERMANENT, TL-3	621.7130	
EACH	GUARDRAIL APPROACH SECTION TO CONCRETE BRIDGE RAIL, TL-3	621.8330	
LF	CONCRETE ENCASED CONDUIT	625.4000	
LF	WIRED CONDUIT (2 INCH)	625.6000	
LF	WIRED CONDUIT (3 INCH)	625.6000	
EACH	POWER DROP STANCHION	625.7000	
EACH	JUNCTION BOX	625.7010	
EACH	PULL BOX, SINGLE	625.7021	
HR	UNIFORMED TRAFFIC OFFICERS	630.1000	
HR	FLAGGERS	630.1500	
LS	FIELD OFFICE, ENGINEER'S	631.1000	
LS	TESTING EQUIPMENT, CONCRETE	631.1600	
LS	TESTING EQUIPMENT, BITUMINOUS	631.1700	
DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.2600	
EACH	CPM SCHEDULE	633.1000	
HR	EMPLOYEE TRAINEESHIP	634.1000	
LS	MOBILIZATION/DEMOBILIZATION	635.1100	
LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.1100	
EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.1500	
LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.6020	
LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.6120	
LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.6220	
LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.6320	
LF	TEMPORARY 12 INCH WHITE LINE, PAINT	646.6620	
LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.6820	
EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.6920	
LF	TEMPORARY CROSSWALK MARKING, PAINT	646.7020	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
QUANTITY SUMMARY SHEET 3

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: P. SHEDD
SHEET 31 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 4

SUMMARY OF ESTIMATED QUANTITIES

		1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1251 - BRIDGE NO. 5 BRIDGE 28-1G	1261 - BRIDGE NO. 6 BRIDGE 28-1C	1271 - BRIDGE NO. 7 BRIDGE 28-1N	1999 - FULL C.E. ITEMS	OPTION

TOTALS

GRAND TOTAL	FINAL

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
EACH	LINE STRIPING TARGETS	646.7600	
LF	PAINTED CURB	646.8100	
SF	PAVEMENT MARKING MASK	646.8600	
SY	GEOTEXTILE UNDER STONE FILL	649.3100	
SY	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	649.4100	
SY	TURF ESTABLISHMENT, GENERAL SEED (VAOT NATURALIZED AREA TYPE II)	651.1500	
SY	TURF ESTABLISHMENT, GENERAL SEED (VAOT LAWN)	651.1500	
SY	TURF ESTABLISHMENT, SPECIALTY SEED (VAOT POLLINATOR WET)	651.1600	
SY	TURF ESTABLISHMENT, SPECIALTY SEED (VAOT POLLINATOR DRY)	651.1600	
SY	TURF ESTABLISHMENT, TEMPORARY SEED	651.1700	
CY	TOPSOIL	651.3500	
LS	EPSC PLAN	653.0100	
HR	MONITORING EPSC PLAN	653.0200	
DL	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.0300	
TON	HAY MULCH	653.1000	
TON	STRAW MULCH	653.1200	
SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.2001	
SY	ROLLED EROSION CONTROL PRODUCT, TYPE II	653.2002	
CY	CHECK DAM, TYPE I	653.2501	
CY	STABILIZED CONSTRUCTION ENTRANCE	653.3500	
EACH	INLET PROTECTION DEVICE, TYPE I	653.4001	
EACH	INLET PROTECTION DEVICE, TYPE II	653.4002	
CY	INLET PROTECTION DEVICE, TYPE III	653.4003	
EACH	FILTER BAG	653.4500	
LF	SILT FENCE, TYPE I	653.4701	
LF	SILT FENCE, TYPE II	653.4702	
LF	BARRIER FENCE	653.5000	
LF	PROJECT DEMARCATION FENCE	653.5500	
SY	SURFACE SAND FILTER	654.0030	
SF	TRAFFIC SIGN, FLAT SHEET ALUMINUM	675.2000	
LB	TUBULAR STEEL SIGN POST	675.3300	
LF	SQUARE TUBE SIGN POST AND ANCHOR	675.3410	
EACH	SOIL BEARING SLIP BASE	675.3500	
EACH	FOUNDATION FOR W-SHAPE STEEL POST, 24 INCH DIAMETER	675.4100	
EACH	FOUNDATION FOR TUBULAR STEEL POST	675.4300	
EACH	SIGN REMOVAL, FLAT SHEET ALUMINUM	675.5000	
EACH	SIGN REMOVAL, EXTRUDED ALUMINUM	675.5100	
EACH	RESETTING SIGNS	675.6000	
EACH	DELINEATOR WITH STEEL POST	676.1000	
EACH	REMOVAL OF EXISTING DELINEATOR AND POST	676.1200	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
QUANTITY SUMMARY SHEET 4

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: P. SHEDD
SHEET 32 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 5

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
		1011 - ROADWAY	1031 - TRAINING	1051 - EROSION CONTROL	1251 - BRIDGE NO. 5 BRIDGE 28-1G	1261 - BRIDGE NO. 6 BRIDGE 28-1C	1271 - BRIDGE NO. 7 BRIDGE 28-1N	1999 - FULL C.E. ITEMS	OPTION	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
												EACH	REMOVE EXISTING OVERHEAD SIGN ASSEMBLY, CANTILEVER	677.3000				
												EACH	REMOVE EXISTING OVERHEAD SIGN ASSEMBLY, MULTI-SUPPORT	677.3500				
												EACH	PEDESTAL POST ASSEMBLY	678.2015				
												EACH	PEDESTRIAN SIGNAL ASSEMBLY	678.2020				
												EACH	RRFB, SOLAR-POWERED, SINGLE SIDED	678.2020003				
												EACH	STREET LIGHT ASSEMBLY	679.4600				
												DL	PRICE ADJUSTMENT, ASPHALT (N.A.B.I.)	690.0300				
												DL	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.0400				
													BEGIN OPTION EPOXY PAVEMENT LINES ITEMS					
												LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.4030				
												LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.4130				
												LF	DURABLE 6 INCH WHITE LINE, EPOXY PAINT	646.4230				
												LF	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	646.4330				
												LF	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	646.4630				
													END OPTION EPOXY PAVEMENT LINES ITEMS					
													BEGIN OPTION POLYUREA PAVEMENT LINES ITEMS					
												LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.4040				
												LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.4140				
												LF	DURABLE 6 INCH WHITE LINE, POLYUREA	646.4240				
												LF	DURABLE 6 INCH YELLOW LINE, POLYUREA	646.4340				
												LF	DURABLE 12 INCH WHITE LINE, POLYUREA	646.4640				
													END OPTION POLYUREA PAVEMENT LINES ITEMS					
													BEGIN OPTION EPOXY CROSSWALK ITEMS					
												LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.5030				
													END OPTION EPOXY CROSSWALK ITEMS					
													BEGIN OPTION POLYUREA CROSSWALK ITEMS					
												LF	DURABLE CROSSWALK MARKING, POLYUREA	646.5040				
													END OPTION POLYUREA CROSSWALK ITEMS					
													BEGIN OPTION EPOXY STOP BAR ITEMS					
												LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.4830				
													END OPTION EPOXY STOP BAR ITEMS					
													BEGIN OPTION POLYUREA STOP BAR ITEMS					
												LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.4840				
													END OPTION POLYUREA STOP BAR ITEMS					
													BEGIN OPTION EPOXY LETTER OR SYMBOL ITEMS					
												EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.4930				
													END OPTION EPOXY LETTER OR SYMBOL ITEMS					
													BEGIN OPTION POLYUREA LETTER OR SYMBOL ITEMS					
												EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.4940				
													END OPTION POLYUREA LETTER OR SYMBOL ITEMS					

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
QUANTITY SUMMARY SHEET 5

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: P. SHEDD
SHEET 33 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 6

SUMMARY OF ESTIMATED QUANTITIES								TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1211 - BRIDGE NO. 1 BRIDGE 25N	1221 - BRIDGE NO. 2 BRIDGE 26N	1231 - BRIDGE NO. 3 BRIDGE 27N	1241 - BRIDGE NO. 4 BRIDGE 28N	2211-BRIDGE NO. 1 BRIDGE 25S	2221-BRIDGE NO. 2 BRIDGE 26S	2231-BRIDGE NO. 3 BRIDGE 27S	2241-BRIDGE NO. 4 BRIDGE 28S	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										CY	STRUCTURE EXCAVATION	204.2500				
										CY	GRANULAR BACKFILL FOR STRUCTURES	204.3000				
										CWT	TACK COAT, EMULSIFIED ASPHALT	404.1100				
										TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IVSB, QA TIER I	406.1410				
										CY	PERFORMANCE-BASED CONCRETE, CLASS PCD	501.3700				
										CY	PERFORMANCE-BASED CONCRETE, CLASS PCS	501.3800				
										LS	FURNISHING EQUIPMENT FOR DRIVING PILING (BRIDGE 28S)	504.1000				
										LS	FURNISHING EQUIPMENT FOR DRIVING PILING (BRIDGE 28N)	504.1000				
										LF	STEEL PILING, HP 12 × 74	505.1600				
										EACH	DYNAMIC PILE LOADING TEST	505.4500				
										LB	STRUCTURAL STEEL, PLATE GIRDER	506.5500				
										LB	REINFORCING STEEL, LEVEL I	507.1100				
										LB	REINFORCING STEEL, LEVEL I (EPOXY COATED)	507.1100				
										LB	REINFORCING STEEL, LEVEL II	507.1200				
										LB	REINFORCING STEEL, LEVEL III	507.1300				
										LS	SHEAR CONNECTORS (BRIDGE 28S) (2825)	508.1500				
										LS	SHEAR CONNECTORS (BRIDGE 26S) (4700)	508.1500				
										LS	SHEAR CONNECTORS (BRIDGE 25S) (2050)	508.1500				
										LS	SHEAR CONNECTORS (BRIDGE 28N) (2725)	508.1500				
										LS	SHEAR CONNECTORS (BRIDGE 26N) (4700)	508.1500				
										LS	SHEAR CONNECTORS (BRIDGE 25N) (2250)	508.1500				
										GAL	WATER REPELLENT, SILANE	514.1000				
										LF	BRIDGE EXPANSION JOINT, PRE-COMPRESSED	516.1000001				
										SY	MEMBRANE WATERPROOFING, TORCH APPLIED SHEET	519.2000				
										LF	JOINT SEALER, HOT POURED	524.1100				
										LF	BRIDGE RAILING, CONCRETE SINGLE SLOPE	525.5400002				
										LS	MAINTENANCE OF STRUCTURES AND APPROACHES (BRIDGE 28S)	527.1000				
										LS	MAINTENANCE OF STRUCTURES AND APPROACHES (BRIDGE 26S)	527.1000				
										LS	MAINTENANCE OF STRUCTURES AND APPROACHES (BRIDGE 25S)	527.1000				
										LS	MAINTENANCE OF STRUCTURES AND APPROACHES (BRIDGE 28N)	527.1000				
										LS	MAINTENANCE OF STRUCTURES AND APPROACHES (BRIDGE 26N)	527.1000				
										LS	MAINTENANCE OF STRUCTURES AND APPROACHES (BRIDGE 25N)	527.1000				
										EACH	REMOVAL OF STRUCTURE (BRIDGE 28S)	529.1500				
										EACH	REMOVAL OF STRUCTURE (BRIDGE 28N)	529.1500				
										EACH	REMOVAL OF STRUCTURE (BRIDGE 27S)	529.1500				
										EACH	REMOVAL OF STRUCTURE (BRIDGE 27N)	529.1500				
										EACH	PARTIAL REMOVAL OF STRUCTURE (BRIDGE 26S)	529.2000				
										EACH	PARTIAL REMOVAL OF STRUCTURE (BRIDGE 25S)	529.2000				
										EACH	PARTIAL REMOVAL OF STRUCTURE (BRIDGE 26N)	529.2000				
										EACH	PARTIAL REMOVAL OF STRUCTURE (BRIDGE 25N)	529.2000				

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
QUANTITY SUMMARY SHEET 6

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: P. SHEDD
SHEET 34 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 7

SUMMARY OF ESTIMATED QUANTITIES								TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1211 - BRIDGE NO. 1 BRIDGE 25N	1221 - BRIDGE NO. 2 BRIDGE 26N	1231 - BRIDGE NO. 3 BRIDGE 27N	1241 - BRIDGE NO. 4 BRIDGE 28N	2211-BRIDGE NO. 1 BRIDGE 25S	2221-BRIDGE NO. 2 BRIDGE 26S	2231-BRIDGE NO. 3 BRIDGE 27S	2241-BRIDGE NO. 4 BRIDGE 28S	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										EACH	BEARING DEVICE ASSEMBLY, HIGH LOAD MULTI-ROTATIONAL	531.1500				
										LS	PUBLIC PROTECTION FOR BRIDGE PROJECTS (BRIDGE 28S)	551.1000				
										LS	PUBLIC PROTECTION FOR BRIDGE PROJECTS (BRIDGE 25S)	551.1000				
										LS	PUBLIC PROTECTION FOR BRIDGE PROJECTS (BRIDGE 28N)	551.1000				
										LS	PUBLIC PROTECTION FOR BRIDGE PROJECTS (BRIDGE 25N)	551.1000				
										SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I	580.1101				
										SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II	580.1102				
										CY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS III	580.1103				
										EACH	FRP BRIDGE DRAIN (TYPE G)	605.1012001				
										CY	STONE FILL, TYPE I	613.1001				
										CY	STONE FILL, TYPE IV	613.1004				
										SY	GRUBBING MATERIAL, 12 INCH	651.4012				

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574frm	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
QUANTITY SUMMARY SHEET 7	SHEET 35 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
I-91 NB									
BEGIN NB APPROACH									
22143+00		0.0		0.0		0.0			
	50								
22143+50		0.0		0.0		0.0			
	50							CUT	0
22144+00		0.0		0.0		0.0		ROCK	0
	50							R.FAC	.495
22144+50		0.0		0.0		0.0		FILL	0
	50							F.FAC	1.15
22145+00		0.0		0.0		0.0		EX. C	0
22145+00		0.0		0.0		0.0			
	50								
22145+50		0.0		0.0		0.0			
	50								
22146+00		0.0		0.0		0.0			
	50								
22146+50		0.0		0.0		0.0			
	50								
22147+00		0.0		0.0		0.0			
	50							CUT	32
22147+50		0.0		0.0		0.0		ROCK	0
	50		6.0					R.FAC	.495
22148+00		6.5		0.0		0.0		FILL	0
	50		9.4					F.FAC	1.15
22148+50		3.7		0.0		0.0		EX. C	32
	50		7.0						
22149+00		3.9		0.0		0.0			
	50		5.6						
22149+50		2.2		0.0		0.0			
	50		4.3						
22150+00		2.4		0.0		0.0			
22150+00		2.4		0.0		0.0			
	50		4.9						
22150+50		2.9		0.0		0.0			
	50		4.8						
22151+00		2.3		0.0		0.0			
	50		3.6						
22151+50		1.6		0.0		0.0			
	50		2.4				0.5		
22152+00		1.0		0.0		0.5			
	50		2.6				1.2	CUT	29
22152+50		1.8		0.0		0.8		ROCK	0
	50		2.9				0.8	R.FAC	.495
22153+00		1.3		0.0		0.0		FILL	3
	50		2.8				0.4	F.FAC	1.15
22153+50		1.7		0.0		0.4		EX. C	25
	50		3.3				0.4		
22154+00		1.9		0.0		0.0			
	50		1.8						
22154+50		0.0		0.0		0.0			
	50								
22155+00		0.0		0.0		0.0			
22155+00		0.0		0.0		0.0			
	50								
22155+50		0.0		0.0		0.0			
	50								
22156+00		0.0		0.0		0.0			
	50		2.2				0.5		
22156+50		2.4		0.0		0.6			
	50		3.7				0.6		
22157+00		1.6		0.0		0.1		CUT	289
	50		4.4				0.4	ROCK	0
22157+50		3.1		0.0		0.3		R.FAC	.495
	50		5.6				0.5	FILL	2
22158+00		2.9		0.0		0.3		F.FAC	1.15
	50		59.5				0.3	EX. C	286
22158+50		61.3		0.0		0.0			
	25		72.4						
22158+75		95.1		0.0		0.0			
BEGIN NB PROJEC	25		141.2						
22159+00		210.0		0.0		0.0			

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
RESUME NB PROJECT									
22200+00		472.5		0.0		0.0			
	25		452.2				5.0		
22200+25		504.2		0.0		10.8			
	25		292.5				23.8		
22200+50		127.7		0.0		40.6			
BEGIN BRIDGE 28N	9		20.1				6.4		
22200+59		0.0		0.0		0.0			
	42								
22201+00		0.0		0.0		0.0			
	50								
22201+50		0.0		0.0		0.0			
	50								
22202+00		0.0		0.0		0.0			
END BRIDGE 28N	40								
22202+40		0.0		0.0		0.0			
	10		18.4				11.9		
22202+50		99.6		0.0		64.4			
	25		185.4				29.8	CUT	1838
22202+75		300.9		0.0		0.0		ROCK	0
	25		209.9					R.FAC	.495
22203+00		152.4		0.0		0.0		FILL	173
	25		117.9					F.FAC	1.15
22203+25		102.2		0.0		0.0		EX. C	1640
	25		84.4						
22203+50		80.1		0.0		0.0			
	25		68.9				2.3		
22203+75		68.7		0.0		4.9			
	25		65.0				8.5		
22204+00		71.7		0.0		13.4			
	25		68.9				15.5		
22204+25		77.2		0.0		20.1			
	25		75.4				22.2		
22204+50		85.7		0.0		27.8			
	25		84.0				25.4		
22204+75		95.7		0.0		27.0			
	25		95.3				22.0		
22205+00		110.1		0.0		20.6			
	25		108.1				15.6		
22205+25		123.5		0.0		13.2			
	25		116.3				10.7		
22205+50		127.8		0.0		9.9			
	25		107.6				11.1		
22205+75		104.7		0.0		14.0			
	25		102.6				11.1		
22206+00		116.9		0.0		9.9			
	25		100.4				13.7		
22206+25		99.9		0.0		19.6			
	25		88.4				20.7		
22206+50		91.1		0.0		25.1			
	25		80.5				20.3		
22206+75		82.7		0.0		18.7			
	25		65.9				13.7		
22207+00		59.6		0.0		10.9		CUT	1118
	25		49.2				9.9	ROCK	0
22207+25		46.6		0.0		10.4		R.FAC	.495
	25		41.4				10.6	FILL	202
22207+50		42.9		0.0		12.5		F.FAC	1.15
	25		42.0				10.6	EX. C	885
22207+75		47.8		0.0		10.5			
	25		49.3				9.5		
22208+00		58.7		0.0		10.0			
	25		56.5				9.4		
22208+25		63.3		0.0		10.4			
END NB PROJECT	25		35.8				13.0		
22208+50		14.0		0.0		17.7			
	50		24.9				16.6		
22209+00		12.9		0.0		0.2			
	50		24.8				1.4		
22209+50		13.9		0.0		1.3			
	50		23.8				4.4		
22210+00		11.8		0.0		3.4			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
22210+00		11.8		0.0		3.4			
	50		18.1				4.6		
22210+50		7.8		0.0		1.6			
	50		12.0				35.6		
22211+00		5.2		0.0		36.9			
	50		7.4				51.4		
22211+50		2.8		0.0		18.6			
	50		3.8				33.7		
22212+00		1.3		0.0		17.8			
	50		1.9				33.7	CUT	384
22212+50		0.8		0.0		18.6		ROCK	0
	50		0.9				32.3	R.FAC	.495
22213+00		0.1		0.0		16.3		FILL	420
	50		48.6				57.3	F.FAC	1.15
22213+50		52.4		0.0		45.6		EX. F	99
	50		95.6				73.2		
22214+00		50.8		0.0		33.5			
	50		94.4				59.4		
22214+50		51.1		0.0		30.6			
	50		101.3				39.1		
22215+00		58.3		0.0		11.6			
22215+00		58.3		0.0		11.6			
	50		114.3				37.7		
22215+50		65.1		0.0		29.1			
	50		226.7				71.1		
22216+00		179.7		0.0		47.7			
	50		443.8				44.5		
22216+50		299.6		0.0		0.4			
	50		437.7				0.4		
22217+00		173.1		0.0		0.0			
	50		271.4				0.1	CUT	2665
22217+50		120.0		0.0		0.1		ROCK	0
	50		210.8				0.1	R.FAC	.495
22218+00		107.7		0.0		0.0		FILL	154
	50		226.0					F.FAC	1.15
22218+50		136.4		0.0		0.0		EX. C	2488
	50		268.5						
22219+00		153.6		0.0		0.0			
	50		251.9						
22219+50		118.5		0.0		0.0			
	50		213.6						
22220+00		112.2		0.0		0.0			
22220+00		112.2		0.0		0.0			
	50		194.3				4.4		
22220+50		97.6		0.0		4.7			
	50		144.3				12.9	CUT	532
22221+00		58.2		0.0		9.2		ROCK	0
	50		123.8				9.2	R.FAC	.495
22221+50		75.5		0.0		0.7		FILL	27
END NB APPROAC	50		69.9				0.6	F.FAC	1.15
22222+00		0.0		0.0		0.0		EX. C	501

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
I-91 NB OFF RAMP									
200+00		46.5		0.0		623.0			
	25		42.9				584.4		
200+25		46.1		0.0		639.3			
	25		41.9				603.3		
200+50		44.5		0.0		663.8			
	25		40.3				629.9		
200+75		42.6		0.0		696.8			
	25		39.0				661.4		
201+00		41.8		0.0		731.7			
	25		38.8				700.8		
201+25		42.2		0.0		782.0			
	75		116.6				1894.9		
202+00		41.8		0.0		582.3			
	25		39.0				475.6		
202+25		42.5		0.0		444.9			
	25		50.5				418.1		
202+50		66.5		0.0		458.1			
	25		61.3				433.5	CUT	709
202+75		65.8		0.0		478.2		ROCK	0
	25		54.4				470.5	R.FAC	.495
203+00		51.7		0.0		538.1		FILL	12660
	25		29.3				565.6	F.FAC	1.15
203+25		11.5		0.0		683.5		EX. F	13850
	25		18.8				886.1		
203+50		29.2		0.0		1230.5			
	25		28.6				1192.5		
203+75		32.5		0.0		1345.2			
	25		34.8				925.4		
204+00		42.6		0.0		653.7			
	25		27.0				612.7		
204+25		15.8		0.0		669.7			
	25		17.0				600.9		
204+50		21.0		0.0		628.2			
	25		16.9				546.4		
204+75		15.4		0.0		552.0			
	25		11.4				458.1		
205+00		9.2		0.0		437.6			
205+00		9.2		0.0		437.6			
	25		48.3				281.6		
205+25		95.1		0.0		170.6			
	25		154.1				81.9		
205+50		237.7		0.0		6.4			
	25		267.9				3.0		
205+75		341.0		0.0		0.0			
	25		290.2						
206+00		285.8		0.0		0.0			
	25		330.7						
206+25		428.6		0.0		0.0			
	25		583.9						
206+50		832.6		0.0		0.0			
	25		886.3						
206+75		1081.9		0.0		0.0			
	25		1144.7						
207+00		1390.7		0.0		0.0			
	25		1428.3						
207+25		1694.4		0.0		0.0			
	25		1708.3					CUT	37370
207+50		1995.5		0.0		0.0		ROCK	0
	25		1966.8					R.FAC	.495
207+75		2252.7		0.0		0.0		FILL	366
	25		2208.7					F.FAC	1.15
208+00		2518.1		0.0		0.0		EX. C	36948
	25		2450.7						
208+25		2775.5		0.0		0.0			
	25		2686.3						
208+50		3026.8		0.0		0.0			
	25		2923.1						
208+75		3287.0		0.0		0.0			
	25		3160.0						
209+00		3538.6		0.0		0.0			
	25		3407.0						
209+25		3820.6		0.0		0.0			
	25		3659.0						
209+50		4082.8		0.0		0.0			
	25		3904.3						
209+75		4350.5		0.0		0.0			
	25		4161.2						
210+00		4637.7		0.0		0.0			

SUMMARY AND BALANCES

STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 2

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 37 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
I-91 NB OFF RAMP									
210+00		4637.7		0.0		0.0			
	25		4409.2						
210+25		4886.2		0.0		0.0			
	25		4647.9						
210+50		5153.2		0.0		0.0			
	25		4626.9						
210+75		4841.0		0.0		0.0		CUT	20575
	25		3765.4					ROCK	0
211+00		3292.2		0.0		0.0		R.FAC	.495
	25		2246.3					FILL	0
211+25		1559.8		0.0		0.0		F.FAC	1.15
	25		774.4					EX. C	20575
211+50		112.9		0.0		0.0			
	25		104.5						
211+75		112.9		0.0		0.0			
I-91 NB ON RAMP									
300+00		0.0		0.0		0.0			
	25								
300+25		0.0		0.0		0.0			
	25		223.4						
300+50		482.5		0.0		0.0			
	25		396.3						
300+75		373.4		0.0		0.0			
	25		285.8						
301+00		243.9		0.0		0.0			
	25		116.2				311.5		
301+25		7.0		0.0		672.8			
	25		4.7				1081.8		
301+50		3.1		0.0		1663.9			
	25		1.7				1923.8		
301+75		0.5		0.0		2491.6			
	25		0.3				2348.8		
302+00		0.2		0.0		2581.7			
	25		0.3				2424.5		
302+25		0.5		0.0		2655.3			
	25		0.4				2400.1	CUT	1121
302+50		0.3		0.0		2528.9		ROCK	0
	25		0.2				2192.8	R.FAC	.495
302+75		0.2		0.0		2207.5		FILL	27886
	25		0.2				2010.5	F.FAC	1.15
303+00		0.2		0.0		2135.2		EX. F	30949
	25		0.5				2167.1		
303+25		0.8		0.0		2545.8			
	25		3.0				2145.6		
303+50		5.6		0.0		2088.8			
	25		4.4				1820.9		
303+75		3.9		0.0		1844.4			
	25		3.2				1638.5		
304+00		3.1		0.0		1694.8			
	25		2.3				1507.0		
304+25		1.9		0.0		1560.3			
	25		4.0				1401.1		
304+50		6.7		0.0		1466.0			
	25		19.3				1316.9		
304+75		35.0		0.0		1378.4			
	25		54.5				1195.3		
305+00		82.8		0.0		1203.5			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
	25		102.7				954.3		
305+25		139.1		0.0		857.8			
	25		195.8				446.2		
305+50		283.9		0.0		106.0			
	25		664.8				49.1		
305+75		1152.1		0.0		0.0			
	25		1346.5						
306+00		1756.4		0.0		0.0			
	25		1634.1				8.5		
306+25		1773.2		0.0		18.5			
	25		1535.9				71.0		
306+50		1544.4		0.0		134.9			
	25		1176.6				196.9		
306+75		997.0		0.0		290.3			
	25		705.0				348.7		
307+00		525.7		0.0		462.9			
	25		348.0				517.8		
307+25		226.0		0.0		655.5			
	25		134.2				795.4	CUT	8282
307+50		63.8		0.0		1062.7		ROCK	0
	25		48.8				933.1	R.FAC	.495
307+75		41.6		0.0		952.7		FILL	8909
	25		37.9				810.0	F.FAC	1.15
308+00		40.3		0.0		796.9		EX. F	1963
	25		37.6				693.2		
308+25		40.9		0.0		700.4			
	25		38.7				605.7		
308+50		42.6		0.0		607.9			
	25		40.7				533.4		
308+75		45.4		0.0		544.3			
	25		42.7				468.2		
309+00		46.8		0.0		467.1			
	25		44.8				416.6		
309+25		50.0		0.0		432.8			
	25		47.2				362.7		
309+50		52.0		0.0		350.6			
	25		49.4				351.3		
309+75		54.7		0.0		408.1			
	25		50.9				347.0		
310+00		55.2		0.0		341.3			
	25		55.2				341.3		
310+25		73.9		0.0		198.4			
	25		64.8				149.5		
310+50		66.0		0.0		124.6			
	25		59.8				106.9		
310+75		63.3		0.0		106.2		CUT	416
	25		60.3				92.2	ROCK	0
311+00		67.0		0.0		92.9		R.FAC	.495
	25		62.4				79.3	FILL	888
311+25		67.8		0.0		78.4		F.FAC	1.15
	25		58.0				100.4	EX. F	605
311+50		57.5		0.0		138.4			
	25		50.9				109.4		
311+75		52.3		0.0		98.0			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
SPENCER BROOK									
900+50				0.0		0.0			
	25		0.0				2.8		
900+75		0.0		0.0		6.0			
	25		55.2				8.5		
901+00		119.3		0.0		12.3			
	25		320.5				11.1		
901+25		573.1		0.0		11.7			
	25		1175.3				5.4		
901+50		1965.5		0.0		0.0			
	25		2727.0						
901+75		3924.8		0.0		0.0			
	25		4098.0						
902+00		4926.9		0.0		0.0			
	25		4794.8						
902+25		5429.9		0.0		0.0			
	25		5127.7						
902+50		5646.0		0.0		0.0			
	25		5165.8					CUT	63638
902+75		5512.1		0.0		0.0		ROCK	0
	25		4861.8					R.FAC	.495
903+00		4989.4		0.0		0.0		FILL	28
	25		4481.8					F.FAC	1.15
903+25		4691.2		0.0		0.0		EX. C	63606
	25		4058.6						
903+50		4075.3		0.0		0.0			
	25		3800.4						
903+75		4133.6		0.0		0.0			
	25		4238.7						
904+00		5022.0		0.0		0.0			
	25		5243.5						
904+25		6304.0		0.0		0.0			
	25		5727.8						
904+50		6068.0		0.0		0.0			
	25		4703.1						
904+75		4090.8		0.0		0.0			
	25		3058.0						
905+00		2514.5		0.0		0.0			
905+00		2514.5		0.0		0.0			
	25		1713.8				15.8		
905+25		1187.4		0.0		34.2			
	25		579.6				46.7		
905+50		64.5		0.0		66.7			
	25		31.7				30.9		
905+75		3.9		0.0		0.0			
	25		1.8						
906+00		0.0		0.0		0.0			
	50								
906+50		0.0		0.0		0.0			
	50								
907+00		0.0		0.0		0.0			
	50							CUT	2423
907+50		0.0		0.0		0.0		ROCK	0
	50							R.FAC	.495
908+00		0.0		0.0		0.0		FILL	164
	50							F.FAC	1.15
908+50		0.0		0.0		0.0		EX. C	2235
	50								
909+00		0.0		0.0		0.0			
	25		0.1				1.8		
909+25		0.3		0.0		3.9			
	25		11.0				4.9		
909+50		23.5		0.0		6.6			
	25		23.8				28.8		
909+75		27.8		0.0		55.7			
	25		61.2				34.9		
910+00		104.3		0.0		19.7			

SUMMARY AND BALANCES

STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 3

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 38 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
910+00		104.3		0.0		19.7			
	25		365.9						
910+25		686.0		0.0					
	25		1153.1						
910+50		1804.6		0.0		0.0			
	25		1885.3						
910+75		2267.7		0.0		0.0			
	25		2419.4						
911+00		2958.2		0.0		0.0			
	25		2958.1						
911+25		3431.2		0.0		0.0			
	25		2975.7						
911+50		2996.3		0.0		0.0			
	25		2587.9						
911+75		2593.6		0.0		0.0			
	25		2590.6						
912+00		3002.2		0.0		0.0			
	25		2673.7						
912+25		2772.9		0.0		0.0		CUT	26636
	25		2370.7					ROCK	0
912+50		2347.8		0.0		0.0		R.FAC	.495
	25		2059.0					FILL	156
912+75		2099.6		0.0		0.0		F.FAC	1.15
	25		1459.1				1.0	EX. C	26457
913+00		1052.0		0.0		2.2			
	25		563.1				6.4		
913+25		164.4		0.0		11.6			
	25		131.9				15.6		
913+50		120.6		0.0		22.2			
	25		109.2				24.5		
913+75		115.2		0.0		30.8			
	25		108.4				29.6		
914+00		118.9		0.0		33.2			
	25		99.1				31.5		
914+25		95.1		0.0		34.9			
	25		74.8				28.0		
914+50		66.4		0.0		25.5			
	25		50.9				19.1		
914+75		43.5		0.0		15.7			

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME		
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.

SUMMARY AND BALANCES

STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 4

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 39 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
I-91 SB									
BEGIN SB APPROACH									
12146+00		0.0		0.0		0.0			
	100								
12147+00		0.0		0.0		0.0			
	100								
12148+00		0.0		0.0		0.0			
	100								
12149+00		0.0		0.0		0.0			
	100								
12150+00		0.0		0.0		0.0			
12150+00		0.0		0.0		0.0			
	100								
12151+00		0.0		0.0		0.0			
	50								
12151+50		0.0		0.0		0.0			
	50		1.4				0.2		
12152+00		1.5		0.0		0.2			
	50		2.6				0.6		
12152+50		1.3		0.0		0.5		CUT	17
	50		4.0				0.5	ROCK	0
12153+00		3.0		0.0		0.0		R.FAC	.495
	50		5.8				0.4	FILL	2
12153+50		3.3		0.0		0.4		F.FAC	1.15
	50		3.1				0.4	EX. C	15
12154+00		0.0		0.0		0.0			
	50								
12154+50		0.0		0.0		0.0			
	50								
12155+00		0.0		0.0		0.0			
12155+00		0.0		0.0		0.0			
	50								
12155+50		0.0		0.0		0.0			
	50								
12156+00		0.0		0.0		0.0			
	50								
12156+50		0.0		0.0		0.0			
	50								
12157+00		0.0		0.0		0.0			
	50								
12157+50		0.0		0.0		0.0			
	50							CUT	415
12158+00		0.0		0.0		0.0		ROCK	0
	50							R.FAC	.495
12158+50		0.0		0.0		0.0		FILL	3
	50		0.0				0.8	F.FAC	1.15
12159+00		0.0		0.0		0.8		EX. C	412
	25		25.5				0.4		
12159+25		55.2		0.0		0.0			
	25		64.3				0.4		
12159+50		83.7		0.0		0.9			
BEGIN SB PROJEC	25		135.7				0.7		
12159+75		209.4		0.0		0.7			
	25		189.6				0.4		
12160+00		200.2		0.0		0.3			
12160+00		200.2		0.0		0.3			
	25		170.5				0.2		
12160+25		168.1		0.0		0.1			
BEGIN BRIDGE 25S	20		78.5				0.1		
12160+45		42.2		0.0		0.0			
	5		3.8						
12160+50		0.0		0.0		0.0			
	200								
12162+50		0.0		0.0		0.0			
END BRIDGE 25S	2		3.1				0.0		
12162+52		92.2		0.0		0.3			
	23		112.8				0.1	CUT	849
12162+75		170.7		0.0		0.0		ROCK	0
	25		172.9					R.FAC	.495
12163+00		202.8		0.0		0.0		FILL	1
STOP SB PROJEC	25		151.4				0.0	F.FAC	1.15
12163+25		124.1		0.0		0.1		EX. C	847
	25		100.8				0.0		
12163+50		93.7		0.0		0.0			
	25		45.0				0.1		
12163+75		3.5		0.0		0.2			
	25		3.3				0.2		
12164+00		3.6		0.0		0.2			
	100		6.7				0.4		
12165+00		0.0		0.0		0.0			

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
12175+00		0.0		0.0		0.0			
	50								
12175+50		0.0		0.0		0.0			
	50								
12176+00		0.0		0.0		0.0			
RESUME SB PROJ	25		27.2				0.0		
12176+25		58.8		0.0		0.0			
	25		70.1				1.6	CUT	619
12176+50		92.6		0.0		3.4		ROCK	0
	25		141.5				2.6	R.FAC	.495
12176+75		213.1		0.0		2.3		FILL	7
	25		196.6				2.1	F.FAC	1.15
12177+00		211.5		0.0		2.3		EX. C	610
	25		169.3				1.0		
12177+25		154.2		0.0		0.0			
	5		14.0						
12177+30		0.0		0.0		0.0			
BEGIN BRIDGE 26 S									
12177+30		0.0		0.0		0.0			
	20								
12177+50		0.0		0.0		0.0			
	50								
12178+00		0.0		0.0		0.0			
	50								
12178+50		0.0		0.0		0.0		CUT	0
	50							ROCK	0
12179+00		0.0		0.0		0.0		R.FAC	.495
	50							FILL	0
12179+50		0.0		0.0		0.0		F.FAC	1.15
	50							EX. C	0
12180+00		0.0		0.0		0.0			
	42								
12180+42		0.0		0.0		0.0			
END BRIDGE 26 S									
12180+42		0.0		0.0		0.0			
	8		24.2						
12180+50		155.1		0.0		0.0			
	25		170.1				0.6		
12180+75		212.2		0.0		1.2			
STOP SB PROJEC	25		201.6				0.6		
12181+00		223.1		0.0		0.0			
	25		150.8						
12181+25		102.6		0.0		0.0			
	25		50.5				0.1		
12181+50		6.4		0.0		0.2			
	50		7.6				4.1	CUT	1276
12182+00		1.8		0.0		4.2		ROCK	0
	50		2.8				56.4	R.FAC	.495
12182+50		1.3		0.0		56.7		FILL	951
	50		46.0				93.0	F.FAC	1.15
12183+00		48.4		0.0		43.7		EX. C	182
	50		89.5				114.6		
12183+50		48.2		0.0		80.0			
	50		153.8				118.5		
12184+00		117.9		0.0		48.0			
	50		227.2				180.6		
12184+50		127.5		0.0		147.0			
	50		152.0				383.0		
12185+00		36.7		0.0		266.6			
12185+00		36.7		0.0		266.6			
	50		69.0				556.6		
12185+50		37.8		0.0		334.6			
	50		73.1				678.4		
12186+00		41.2		0.0		398.1			
	50		78.8				766.2		
12186+50		43.9		0.0		429.4			
	50		79.2				813.8		
12187+00		41.6		0.0		449.5			
	50		78.0				871.5	CUT	767
12187+50		42.7		0.0		491.7		ROCK	0
	50		79.5				920.2	R.FAC	.495
12188+00		43.2		0.0		502.1		FILL	8170
	50		77.3				935.1	F.FAC	1.15
12188+50		40.3		0.0		507.8		EX. F	8629
	50		75.8				967.9		
12189+00		41.6		0.0		537.5			
	50		77.9				908.9		
12189+50		42.5		0.0		444.1			
	50		78.0				750.9		
12190+00		41.7		0.0		366.9			

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
12190+00		41.7		0.0		366.9			
	50		78.2				582.0		
12190+50		42.8		0.0		261.7			
	50		81.8				390.4		
12191+00		45.5		0.0		160.0			
	50		84.7				225.6		
12191+50		46.0		0.0		83.7			
	25		60.2				77.6		
12191+75		84.1		0.0		83.9			
	25		98.8				74.0		
12192+00		129.4		0.0		76.0			
RESUME SB PROJ	25		196.9				63.4		
12192+25		296.0		0.0		61.0			
	25		276.5				60.7		
12192+50		301.2		0.0		70.2			
	25		275.2				78.8		
12192+75		293.2		0.0		100.0		CUT	2044
	25		186.2				373.8	ROCK	0
12193+00		108.9		0.0		707.3		R.FAC	.495
	25		50.4				1222.7	FILL	5466
12193+25		0.0		0.0		1933.7		F.FAC	1.15
	25						1541.2	EX. F	4242
12193+50		0.0		0.0		1395.2			
	25		52.5				694.9		
12193+75		113.4		0.0		105.8			
	25		142.2				49.0		
12194+00		193.8		0.0		0.0			
	25		175.3				2.4		
12194+25		184.9		0.0		5.1			
STOP SB PROJEC	25		134.7				10.7		
12194+50		106.1		0.0		18.0			
	25		86.6				13.4		
12194+75		81.0		0.0		11.0			
	25		64.1				5.5		
12195+00		57.5		0.0		1.0			
12195+00		57.5		0.0		1.0			
	50		86.7				1.2		
12195+50		36.1		0.0		0.3			
	50		68.5				0.7		
12196+00		37.9		0.0		0.5			
	50		75.5				10.5		
12196+50		43.6		0.0		10.9			
	50		70.8				15.9		
12197+00		32.8		0.0		6.3			
	50		78.1				6.3		
12197+50		51.5		0.0		0.5			
	50		132.9				0.5		
12198+00		92.0		0.0		0.0		CUT	1554
	50		170.1				0.1	ROCK	0
12198+50		91.7		0.0		0.1		R.FAC	.495
	25		96.2				0.4	FILL	40
12198+75		116.1		0.0		0.7		F.FAC	1.15
	25		120.5				0.5	EX. C	1508
12199+00		144.1		0.0		0.3			
RESUME SB PROJ	25		186.5				0.3		
12199+25		258.8		0.0		0.3			
	25		256.8				0.2		
12199+50		295.9		0.0		0.0			
	25		187.4				1.9		
12199+75		108.8		0.0		4.1			
	12		24.2				1.8		
12199+87		0.0		0.0		4.0			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
I-91 SB								
12146+00	12150+00	0	0	0	0		0	
12150+00	12155+00	17	0	2	15		15	
12155+00	12160+00	415	0	3	412		427	
12160+00	12165+00	849	0	1	847		1274	
12175+00	12177+30	619	0	7	610		1884	
12177+30	12180+42	0	0	0	0		1884	
12180+42	12185+00	1276	0	951	182		2066	
12185+00	12190+00	767	0	8170		8629		6563
12190+00	12195+00	2044	0	5466		4242		10805
12195+00	12199+87	1554	0	40	1508			9297
12199+87	12205+00	1853	0	48	1798			7499
12205+00	12210+00	2	0	1	1			7498
12210+00	12215+00	0	0	0	0			7498
12215+00	12217+00	0	0	0	0			7498
I-91 SB ON RAMP								
400+00	405+00	2406	164	673	1713			5785
405+00	405+50	334	714	0	688			5097

REMARKS

EARTH AND ROCK EXCAVATION		
SOLID ROCK EXCAVATION		
EARTH EXCAVATION		
PLANIMETERED FILL		
LESS FACTORED SOLID ROCK		
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		
NET PLANIMETERED FILL		
FACTOR		
PLANIMETERED FILL INCLUDING FACTOR		
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		
CHANNEL EXCAVATION		
UNDERDRAIN EXCAVATION		
STRUCTURE EXCAVATION		
TOTAL MATERIAL AVAILABLE FOR FILL		
TOTAL FILL INCLUDING FACTOR		
TOTAL MATERIAL FOR FILL		
BORROW		
EXCESS EXCAVATION		

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 5

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 40 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
BEGIN BRIDGE 28S									
12199+87		0.0		0.0		4.0			
	13						1.0		
12200+00		0.0		0.0		0.0			
	50								
12200+50		0.0		0.0		0.0			
	50								
12201+00		0.0		0.0		0.0			
	50								
12201+50		0.0		0.0		0.0			
END BRIDGE 28S	27								
12201+77		0.0		0.0		0.0			
	24		115.4						
12202+00		265.2		0.0		0.0			
	25		240.8						
12202+25		254.9		0.0		0.0			
	25		241.3				0.1	CUT	1853
12202+50		266.4		0.0		0.2		ROCK	0
	25		253.4				0.1	R.FAC	.495
12202+75		280.9		0.0		0.1		FILL	48
	25		258.4				0.0	F.FAC	1.15
12203+00		277.3		0.0		0.0		EX. C	1798
	25		255.8						
12203+25		275.2		0.0		0.0			
END PROJECT	25		254.0						
12203+50		273.4		0.0		0.0			
	25		172.7				0.1		
12203+75		99.6		0.0		0.3			
	25		47.3				1.3		
12204+00		2.5		0.0		2.5			
	50		7.4				23.2		
12204+50		5.5		0.0		22.6			
	50		6.8				21.7		
12205+00		1.8		0.0		0.9			
12205+00		1.8		0.0		0.9			
	50		1.7				0.8		
12205+50		0.0		0.0		0.0			
	50								
12206+00		0.0		0.0		0.0			
	50								
12206+50		0.0		0.0		0.0			
	50								
12207+00		0.0		0.0		0.0			
	50							CUT	2
12207+50		0.0		0.0		0.0		ROCK	0
	50							R.FAC	.495
12208+00		0.0		0.0		0.0		FILL	1
	50							F.FAC	1.15
12208+50		0.0		0.0		0.0		EX. C	1
	50								
12209+00		0.0		0.0		0.0			
	50								
12209+50		0.0		0.0		0.0			
	50								
12210+00		0.0		0.0		0.0			
12210+00		0.0		0.0		0.0			
	50								
12210+50		0.0		0.0		0.0			
	50								
12211+00		0.0		0.0		0.0			
	50								
12211+50		0.0		0.0		0.0			
	50								
12212+00		0.0		0.0		0.0			
	50							CUT	0
12212+50		0.0		0.0		0.0		ROCK	0
	50							R.FAC	.495
12213+00		0.0		0.0		0.0		FILL	0
	50							F.FAC	1.15
12213+50		0.0		0.0		0.0		EX. C	0
	50								
12214+00		0.0		0.0		0.0			
	50								
12214+50		0.0		0.0		0.0			
	50								
12215+00		0.0		0.0		0.0			
12215+00		0.0		0.0		0.0			
	50								
12215+50		0.0		0.0		0.0			
	50							CUT	0
12216+00		0.0		0.0		0.0		ROCK	0
	50							R.FAC	.495
12216+50		0.0		0.0		0.0		FILL	0
END SB APPROAC	50							F.FAC	1.15
12217+00		0.0		0.0		0.0		EX. C	0

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
I-91 SB ON RAMP									
400+00		22.6		0.0		215.7			
	25		56.3				169.1		
400+25		98.9		0.0		149.5			
	25		92.2				143.7		
400+50		100.2		0.0		160.9			
	25		90.0				151.4		
400+75		94.2		0.0		166.2			
	25		81.1				121.5		
401+00		80.9		0.0		96.2			
	25		74.4				59.6		
401+25		79.8		0.0		32.6			
	25		71.4				20.7		
401+50		74.5		0.0		12.2			
	25		73.4				5.8		
401+75		84.0		0.0		0.4			
	25		99.3				0.3		
402+00		130.4		0.0		0.2			
	25		123.5				0.2		
402+25		136.3		0.0		0.1			
	25		133.5				0.1	CUT	2406
402+50		152.1		0.0		0.0		ROCK	164
	25		132.2					R.FAC	.495
402+75		133.5		0.0		0.0		FILL	673
	25		118.3					F.FAC	1.15
403+00		122.1		0.0		0.0		EX. C	1713
	25		143.1						
403+25		186.9		0.0		0.0			
	25		175.8						
403+50		192.9		0.0		0.0			
	25		189.9				0.2		
403+75		217.3		0.0		0.4			
	25		155.9				0.2		
404+00		119.4		0.0		0.0			
	25		117.6						
404+25		134.5		0.0		0.0			
	25		128.2		19.1				
404+50		142.5		41.2		0.0			
	25		159.4		61.1				
404+75		201.9		90.7		0.0			
	25		190.1		84.2				
405+00		208.8		91.1		0.0			
405+00		208.8		91.1		0.0			
	25		199.2		672.5			CUT	334
405+25		221.5		91.2		0.0		ROCK	714
	25		135.0		42.2			R.FAC	.495
405+50		70.0		0.0		0.0		FILL	0
	25		190.1		84.2			F.FAC	1.15
405+00		208.8		91.1		0.0		EX. C	688

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.

SUMMARY AND BALANCES

STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 6

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 41 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)									
119+75		0.0				0.0			
	25		35.7				5.9		
120+00		77.1				12.8			
	25		55.3				12.9		
120+25		42.3				15.0			
	25		37.1				14.9		
120+50		37.9				17.1			
	25		28.7				18.9		
120+75		24.1				23.7			
	25		22.2				25.2		
121+00		23.9				30.7			
	25		21.1				26.4		
121+25		21.7				26.3			
	25		21.3				21.8		
121+50		24.2				20.8			
	25		21.7				19.4		
121+75		22.6				21.2			
	25		20.5				19.8		
122+00		21.7				21.6			
	25		19.6				20.6		
122+25		20.6				23.0		CUT	502
	25		18.7				24.4	ROCK	0
122+50		19.7				29.8		R.FAC	.495
	25		18.2				28.0	FILL	337
122+75		19.6				30.7		F.FAC	1.15
	25		18.4				26.9	EX. C	114
123+00		20.2				27.3			
	25		18.8				23.3		
123+25		20.4				23.1			
	25		19.2				20.2		
123+50		21.1				20.6			
	25		18.9				15.3		
123+75		19.8				12.5			
	25		18.6				7.4		
124+00		20.4				3.5			
	25		19.4				3.8		
124+25		21.4				4.6			
	25		20.2				2.1		
124+50		22.3				0.0			
	25		22.1				0.0		
124+75		25.5				0.0			
	25		26.2				0.0		
125+00		31.0				0.0			
125+00		31.0				0.0			
	25		30.5				0.0		
125+25		34.9				0.0			
	25		33.3				0.0		
125+50		37.1				0.0			
	25		30.5				0.0		
125+75		28.8				0.0			
	25		26.1				1.6		
126+00		27.6				3.4			
	25		26.4				7.0		
126+25		29.4				11.7			
	25		28.9				15.7		
126+50		33.1				22.3			
	25		32.8				24.3		
126+75		37.7				30.2			
	25		38.5				31.0		
127+00		45.4				36.7			
	25		46.9				35.8		
127+25		55.9				40.6			
	25		53.5				42.1	CUT	2119
127+50		59.6				50.3		ROCK	0
	25		49.6				56.8	R.FAC	.495
127+75		47.6				72.3		FILL	516
	25		48.0				72.4	F.FAC	1.15
128+00		56.0				84.1		EX. C	1525
	25		56.7				60.4		
128+25		66.5				46.3			
	25		85.8				32.8		
128+50		118.8				24.6			
	25		138.2				20.0		
128+75		179.7				18.7			
	25		185.8				9.3		
129+00		221.7				1.4			
	25		216.5				0.6		
129+25		245.9				0.0			
	25		244.8				26.7		
129+50		282.8				57.6			
	25		358.8				44.8		
129+75		492.2				39.2			
	25		387.6				35.0		
130+00		345.0				36.5			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
130+00		345.0				36.5			
	25		281.3				35.4		
130+25		262.7				40.0			
	25		235.6				39.4		
130+50		246.3				45.1			
	25		228.3				41.9		
130+75		246.9				45.4			
	25		227.1				42.8		
131+00		243.6				47.0			
	25		223.2				45.3		
131+25		238.6				50.8			
	25		221.9				47.3		
131+50		240.7				51.4			
	25		218.8				48.5		
131+75		231.9				53.3			
	25		214.0				49.6		
132+00		230.3				53.8			
	25		215.6				55.1		
132+25		235.3				65.2			
	25		255.0				65.8	CUT	5218
132+50		315.5				76.9		ROCK	0
	25		268.2				152.0	R.FAC	.495
132+75		263.9				251.5		FILL	2719
	25		244.9				228.1	F.FAC	1.15
133+00		265.0				241.3		EX. C	2092
	25		269.1				236.5		
133+25		316.3				269.6			
	25		275.7				231.7		
133+50		279.3				230.9			
	25		267.2				231.3		
133+75		297.9				268.6			
	25		290.5				264.8		
134+00		329.6				303.3			
	25		293.0				277.7		
134+25		303.2				296.6			
	25		299.7				255.0		
134+50		344.2				254.1			
	25		320.8				220.9		
134+75		348.7				223.0			
	25		367.8				149.5		
135+00		445.7				99.9			
135+00		445.7				99.9			
	25		526.7				67.0		
135+25		691.9				44.8			
	25		604.3				28.9		
135+50		613.3				17.6			
	25		532.2				16.9		
135+75		536.3				18.8			
	25		442.4				16.4		
136+00		419.2				16.6			
	25		288.5				7.7		
136+25		204.0				0.0			
	25		177.4				0.0		
136+50		179.2				0.0			
	25		161.4				0.0		
136+75		169.4				0.0			
	25		234.8				24.8		
137+00		337.7				53.6			
	25		283.8				48.3		
137+25		275.3				50.7			
	25		213.4				44.7	CUT	3714
137+50		185.6				45.9		ROCK	0
	25		121.3				38.3	R.FAC	.495
137+75		76.3				36.8		FILL	537
	25		60.6				28.7	F.FAC	1.15
138+00		54.7				25.2		EX. C	3096
	25		44.9				16.1		
138+25		42.3				9.5			
	25		20.9				5.1		
138+50		2.8				1.5			
	25		1.3				5.4		
138+75		0.0				10.2			
	25						13.9		
139+00		0.0				19.9			
	25						20.4		
139+25		0.0				24.1			
	25						27.9		
139+50		0.2				36.1			
	25						54.2		
139+75		0.0				80.9			
	25						73.0		
140+00		2.9				76.7			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
140+00		2.9				76.7			
	25		14.7				53.3		
140+25		28.8				38.4			
	25		15.1				38.7		
140+50		3.8				45.1			
	25		24.9				26.2		
140+75		49.9				11.5			
	25		73.4				6.2		
141+00		108.6				1.8			
	25		98.7				0.9	CUT	535
141+25		104.5				0.2		ROCK	0
	25		83.9				0.1	R.FAC	.495
141+50		76.8				0.1		FILL	125
	25		109.2				0.0	F.FAC	1.15
141+75		159.1				0.0		EX. C	391
	25		88.8				0.0		
142+00		32.8				0.0			
	25		20.9				0.0		
142+25		12.4				0.0			
	25		5.7				0.0		
142+50		0.0				0.0			
SHARED USE PATH									
1998+25									
	25		5.6						
1998+50		12.0				0.0			
	25		14.7				1.3		
1998+75		19.7				2.8		CUT	71
	25		23.3				5.8	ROCK	0
1999+00		30.6				9.7		R.FAC	.495
	25		19.9				19.5	FILL	44
1999+25		12.4				32.5		F.FAC	1.15
	25		7.6				17.8	EX. C	20
1999+50		4.1				5.9			
2019+50		6.0				0.2			
	25		10.9				0.2		
2019+75		17.6				0.2			
	25		16.0				0.1		
2020+00		17.0				0.0			
	25		13.6				3.1		
2020+25		12.4				6.7			
	25		12.0				5.6		
2020+50		13.6				5.5			
	25		12.6				5.0		
2020+75		13.6				5.2			
	25		13.1				4.9		
2021+00		14.6				5.4			
	25		13.4				5.3		
2021+25		14.3				6.0			
	25		13.1				5.6		
2021+50		13.9				6.0			
	25		13.0				5.9		
2021+75		14.1				6.7			
	25		12.5				6.8		
2022+00		12.8				7.9			
	25		11.9				7.4	CUT	379
2022+25		12.9				8.1		ROCK	0
	25		12.5				7.4	R.FAC	.495
2022+50		14.1				7.8		FILL	118
	25		13.5				6.8	F.FAC	1.15
2022+75		15.1				6.9		EX. C	243
	25		14.9				6.0		
2023+00		17.0				6.1			
	25		22.0				5.6		
2023+25		30.5				6.1			
	25		30.3				5.8		
2023+50		34.9				6.4			
	25		30.5				6.0		
2023+75		31.0				6.5			
	25		26.3				6.3		
2024+00		25.8				7.2			
	25		24.0				6.3		
2024+25		26.1				6.5			
	25		23.9				6.0		
2024+50		25.5				6.5			
	25		21.4				6.0		
2024+75		20.7				6.5			
	25		18.1				6.2		
2025+00		18.5				6.8			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)								
119+75	125+00	502	0	337	114		114	
125+00	130+00	2119	0	516	1525		1639	
130+00	135+00	5218	0	2719	2092		3731	
135+00	140+00	3714	0	537	3096		6827	
140+00	142+50	535	0	125	391		7218	
SHARED USE PATH								
1998+25	1999+50	71	0	44	20		7238	
2019+50	2025+00	379	0	118	243		7481	
2025+00	2027+25	868	0	25	839		8320	
SPECIAL DITCH 1		84	0	0	84		8404	
SPECIAL DITCH 2		248	0	1	247		8651	

REMARKS

EARTH AND ROCK EXCAVATION		
SOLID ROCK EXCAVATION		
EARTH EXCAVATION		
PLANIMETERED FILL	CUT	379
LESS FACTORED SOLID ROCK	ROCK	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	R.FAC	.495
NET PLANIMETERED FILL	FILL	118
FACTOR	F.FAC	1.15
PLANIMETERED FILL INCLUDING FACTOR	EX. C	243
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		
CHANNEL EXCAVATION		
UNDERDRAIN EXCAVATION		
STRUCTURE EXCAVATION		
TOTAL MATERIAL AVAILABLE FOR FILL		
TOTAL FILL INCLUDING FACTOR		
TOTAL MATERIAL FOR FILL		
BORROW		
EXCESS EXCAVATION		

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 7

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 42 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
SHARED USE PATH									
2025+00		18.5				6.8			
	25		16.9				6.3		
2025+25		18.0				6.9			
	25		16.9				7.3		
2025+50		18.5				8.8			
	25		17.4				7.2		
2025+75		19.0				6.7			
	25		24.5				3.8		
2026+00		34.0				1.5		CUT	868
	25		41.2				0.7	ROCK	0
2026+25		54.9				0.0		R.FAC	.495
	25		108.1				0.0	FILL	25
2026+50		178.6				0.0		F.FAC	1.15
	25		227.8				0.0	EX. C	839
2026+75		313.4				0.0			
	25		278.0				0.0		
2027+00		287.0				0.0			
	25		137.2						
2027+25		9.3							
SPECIAL DITCH 1			84.0				0.0	CUT	84
								ROCK	0
								R.FAC	.495
								FILL	0
								F.FAC	1.15
								EX. C	84
SPECIAL DITCH 2			248.3				0.8	CUT	248
								ROCK	0
								R.FAC	.495
								FILL	1
								F.FAC	1.15
								EX. C	247

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		

SUMMARY AND BALANCES

STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574ews.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
EARTHWORK SHEET 8

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 43 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 1

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
I-91 SOUTHBOUND PROPOSED																																										
12169+37	12169+37	RT/LT	P006	PRCCB	EXIST						18	54			III													82.9					9										
12188+89	12188+89	RT/LT	P011	EXIST	PRCCB						12	65			III													81.7					9.6										
12188+89		LT	P012																		4		10.33			A		13					1.8										
12188+89	12188+89	LT	P013	PRCCB	OPEN						18	20			III													2.2					3.3		92.3	23.5	I	X				
12194+38	400+75	RT/LT	P014	EXIST	PRCCB						18	74			III													105.6					12.3										
12204+46	12204+80	RT/LT	P033	EXIST	OPEN						18	112			III													213.6					18.7		13	3	I		X			
I-91 NORTHBOUND PROPOSED																																										
22148+73	22148+74	LT	P002	PRCCB	OPEN						18	6			III													3.8					1										
22148+74		LT	P001	EXIST	OPEN																4		7.31			A		21.8					1.8						X			
22153+28	22153+31	LT/RT	P003								18	55			III													95					9.2										
22165+36	22165+37	RT/LT	P004								18	54			III													100.9					9										
22169+37	22169+38	LT/RT	P005	PRCCB	EXIST						18	54			III													105.5					9										
22173+37	22173+37	RT/LT	P007	EXIST	EXIST						18	54			III													93.3					9										
22175+74	22176+87	LT	P008	EXIST	EXIST						18	110			III													103.2					18.3										
22176+87	22176+88	LT/RT	P009	EXIST	EXIST						18	76			III													72.9					12.7		20	4.9	I		X			
22184+84	22192+56	RT	P034	EXIST	EXIST																														722.9	180.4	I					
22184+90	22184+90	RT/LT	P010	EXIST	EXIST						18	84			III													115					14		51.7	12.9	I		X			
22205+00	22205+00	RT/LT	P017	EXIST	OPEN						18	136			III													293.6					22.7		22.2	4.9	I	X	X			
22210+89	22210+89	LT	P040	EXIST	OPEN						12	20			III																		3		30.4	7.2	I	X				
22213+89	22213+89	LT	P021	OPEN	OPEN						12	12			III													5.3					1.8		30.4	7.2	I	X				
22215+00		LT	P022																		4		7.94			A		19.4					1.8										
22215+02	22215+48	LT	P023	PRCCB	OPEN						12	46			III													53.7					6.8										
22215+50		LT	P024																		4		8.63			A		21.3					1.8										
22215+52	22215+98	LT	P025								12	46			III													60.7					6.8										
22216+00	22216+00	LT	P026	EXIST	OPEN						18	20			III													13.3					3.3		31.4	7.5	I	X				
22216+00		LT	P027																		4		9.66			A		24					1.8										
22216+00	22216+00	RT/LT	P028	PRCCB	PRCCB						18	68			III													65.2					11.3		31.4	3.2	I		X			
22221+00	22221+00	LT	P029								18	24			III													20.1					4		23.4	5.5	I	X				
22221+00		LT	P030	PRCCB	PRCCB																4		10.19			A		25.5					1.8										
22221+00	22221+00	RT/LT	P031	PRCCB	OPEN						18	62			III													62.2					10.3		13.6	3	I		X			
I-91 NORTHBOUND OFF RAMP																																										
201+87	205+41	RT	P035	OPEN	PRCCB																														330.7	82.2	I					
206+50	137+25	RT	P036	PRCCB	OPEN																														505.4	126	I					
206+50	135+51	RT	P037																														481.9	120.1	I					
I-91 NORTHBOUND ON RAMP				OPEN	PRCCB																																					
301+47	303+60	RT	P039																														220.2	48.9	I					
301+50		LT	P142																		5		12			A		48.9					2.4						X			
301+50	302+73	LT/RT	P143								24	196			III													66.8					36.3							X		
								12" RCP CL III	189		18" CPEP	0			12" CPEP(SL)	0				6 -4'	0 -4'					7 A		1990.4		0 CL I	0		254.6		2620.9	Type I	640.4	8	7	0		
								18" RCP CL III	1063		24" CPEP	0			15" CPEP(SL)	0				1 -5'						0 D										Type II	0					
								24" RCP CL III	196						18" CPEP(SL)	0				0 -6'						0 E																
															24" CPEP(SL)	0										0 MH															
																											0 BH														

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
DRAINAGE DETAIL SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 44 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 2

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
302+71	303+38	RT	P038														X																	360.5	105.4	II					
307+00		LT	P018																		4		8.32			A			28.5					1.8				X				
307+00	307+00	RT/LT	P019								18	50			III														8					8.3		67.2	16.9	I		X			
309+47	309+69	RT	P020																																								BRIDGE 28-1N CULVERT EXTENSION
I-91 SOUTHBOUND ON RAMP				ES	PRCMH																																					
400+75		LT	P015																		4		9.74			A			6.7					1.8								
400+75	400+75	LT	P016								18	20			III														3.4					3.3		33.3	8	I	X				
401+64	401+70	LT	P032	PRCCB	PRCCB						18	10			III														1.1					1.7		13.8	3.1	I	X				CONNECT TO EXIST. PIPE
405+58		RT	P117																		4		6.52			D			23.7					1.8								
405+58	129+98	RT	P118	ES	PRCCB						18	56					X												47.8					9.3								
CHARLESTOWN ROAD PROPOSED																																										
1999+65	1999+60	RT	P101	PRCCB	PRCCB						15	18					X			X									5.1					2.8		6	1.1	I		X			
1999+60		LT	P102																			4	5.59			MH																	SOLID COVER
119+95		LT	P103	PRCCB	PRCCB																5		11.64			E			30.1					2.4								
119+65	120+19	LT	P104								24	25				X													41.9					4.6								
120+19		LT	P105	PRCCB	PRCCB																5		10.67			E			26.6					2.4								
120+19	120+27	LT	P106								18	13				X				X									8.6					2.2		6.8	1.3	I	X				
126+00		RT	P107	PRCCB	ES																4		5.75			E			5.9					1.3								
126+00	126+50	RT	P108								12	46					X												8.8					6.8								
126+50		RT	P109																		4		6.74			E			9					1.8								
126+50	127+75	RT	P110								12	121					X												41.9					17.9								
125+75		RT	P111	PRCCB	PRCCB																4		10			E			18.2					1.8								
127+75	127+86	RT	P112								12	43					X												30.2					6.4								
127+86		RT	P113	PRCCB	PRCCB																4		6.58			BH			8.2					1.8								BEEHIVE GRATE
127+85	127+19	RT	P114								12	96					X			X									127.4					14.2		3.8	0.6	I					
127+50	128+00	RT	P115	PRCCB	PRCCB																																						SAND FILTER
128+00	128+50	RT	P116																																23.8	5.7	I					SEDIMENT FOREBAY
130+00		RT	P119	ES	PRCCB																4		7.79			E			10.9					1.8								
130+00	130+00	RT	P120								18	25					X												15.2					4.2								
130+00		RT	P121	PRCCB	PRCCB																4		8.09			D			11.8					1.8								
130+00	132+00	RT	P122								18	191					X												138.8					31.8								
130+05	132+00	RT	U1	PRCCB	PRCCB						8	188	X																64.6					25.6								
132+00	132+00	RT	P123	PRCCB	PRCCB						18	27				X				X									16.3					4.5		7.5	1.3	I		X			
132+00		RT	P124																		4		8.89			E			14.5					1.8								
132+00	132+00	LT/RT	P125								18	26					X												22.8					4.3								
132+00		LT	P126	EXIST	PRCCB																4		9.44			E			16					1.8								
132+00	132+82	LT	P127								18	78					X												57.2					13								
132+00	135+00	RT	P128	PRCCB	PRCCB						18	286					X												259.8					47.7								
132+05	135+50	RT	U2								8	334	X																135.9					45.4								
								12" RCP CL III	0		18" CPEP	40			12" CPEP(SL)	306					11 -4'	1 -4'				2 A			1244.9		0 CL I	0		278.1		522.7	Type I	38	4	3	0		
								18" RCP CL III	80		24" CPEP	25			15" CPEP(SL)	18					2 -5'					2 D											Type II	105.4						
								24" RCP CL III	0						18" CPEP(SL)	662					0 -6'					8 E																	
															24" CPEP(SL)	0										1 MH																	
																											1 BH																

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574frm	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE DETAIL SHEET 2	SHEET 45 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 3

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
132+75	132+82	LT	P130	ES	PRCCB						18	45					X											20.9					7.5									
132+82		LT	P129	PRCCB	PRCCB																4		6.77			A			7.3					1.8									
135+00		RT	P131																		4		8.55			E			13					1.8									
135+00	135+50	RT	P132	PRCCB	PRCCB						18	44					X											35					7.3									
135+50		RT	P133																		6		9.3			E			25.2					3									
135+50	135+50	RT	P134	PRCCB	PRCCB						18	25					X			X									12.7					4.2		6.7	1.3	I		X			
135+50	136+00	RT	P135	PRCCB	SWT						12	44					X											27.3					6.5									
136+00		RT	P136	PRCCB	PRCCB																4		7.26			D			20.3					1.8									
135+09		LT	P138																		4		6.85			A			9.3					1.8									
135+09	135+75	LT	P139	PRCCB	SWT						12	63					X											51.1					9.3									
135+50	135+75	RT/LT	P137	PRCCB	PRCCB						24	39					X											50.5					7.2									
135+75		LT	P140																		6		12.2			E			38.5					3									
135+75	301+50	LT	P141	PRCCB	PRCCB						24	124			III													354.7					23									
135+75	136+75	LT	P144								18	97					X											123.6					16.2									
136+75		LT	P145																		4		9.62			E			15.9					1.8									
136+75	138+00	LT	P146								18	122					X											179.2					20.3									
138+00		LT	P147																		4		7.04			E			13.5					1.8									
I-91 SOUTHBOUND EXISTING																																										
12137+81	12140+79	RT	E005								18																															RETAIN
12140+77		LT	E008																																					RETAIN
12140+77	12140+77	LT	E009								24																													RETAIN
12140+78	12140+79	RT	E007								24																													RETAIN
12140+79		RT	E006																																					RETAIN
12145+78	12145+79	RT/LT	E011								24																													RETAIN
12145+79		LT	E012																																					RETAIN
12148+78	12148+80	LT	E016								24																													RETAIN
12148+80		LT	E017																																					RETAIN
22153+31	12153+30	LT/RT	E022								24																													RETAIN
12153+31		RT	E023																								DI												X			
12153+30	12153+32	LT/RT	E024								24																													RETAIN
12153+32		LT	E025																																					RETAIN
12157+20	12157+20	LT/RT	E030								24																													RETAIN
12157+20		LT	E031																																					RETAIN
12169+37	22169+37	LT	E046								18	54																													REMOVE EXIST 54' X 18" CMP
12169+37		LT	E047																								DI				X											
12166+39	22167+94	LT/RT	E048								24																															RETAIN
12171+86	12171+88	LT	E049								12																															RETAIN
12171+86		LT	E050																								DI															
12188+89		RT	E064																								DI												X			
								12" RCP CL III	0		18" CPEP 0				12" CPEP(SL)	107					6 -4'	0 -4'				2 A			998		0 CL I	1		118.3		6.7	Type I	1.3	0	3	0		
								18" RCP CL III	0		24" CPEP 0				15" CPEP(SL)	0					0 -5'				1 D												Type II	0					
								24" RCP CL III	124						18" CPEP(SL)	333					2 -6'				5 E																		
																24" CPEP(SL)	39									0 MH																
																											0 BH															

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
DRAINAGE DETAIL SHEET 3

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 46 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 4

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
12188+89	12188+89	RT/LT	E065								12	55																														REMOVE EXIST 55' X 12" CMP
12188+89		LT	E066																			8.8					24.3														REMOVE EXIST CB
12188+89	12188+89	LT	E067								18	46																														REMOVE EXIST 46' X 18" CMP
12194+38		RT	E071																										I	X									X		
12194+02	12194+37	LT/RT	E072								18	71																44														REMOVE EXIST 37' X 18" RCP
12194+02		LT	E073																			4.6					10.4														REMOVE EXIST DI
12194+38	12194+39	RT/LT	E074								18	107																														REMOVE EXIST 107' X 18" CMP
12188+88		LT	E075								36																															RETAIN
12204+27		RT	E101																			7.3					19.2														REMOVE EXIST CB
12204+27	12204+80	RT/LT	E102								12	120																208.6														REMOVE EXIST 120' X 12" CMP
12204+80		LT	E103																											X								X				RETAIN
12209+87		RT	E104																							DI																
12209+88	12210+39	RT	E105								12																														X		RETAIN
12212+39		RT	E106																							DI																
12212+39	12212+39	RT	E107								12																														X		RETAIN
12214+38	12214+38	RT/LT	E108								18																														X		RETAIN
12209+88	12209+87	LT	E109								18																																RETAIN
12214+87		LT	E110																							DI																
12214+88	12214+88	LT/RT	E111								18																																RETAIN
12214+88		RT	E112																							DI																
12217+18	12217+18	RT/LT	E113								24																																RETAIN
12217+38		RT	E114																																						RETAIN
12217+38	12217+38	RT	E115								12																																RETAIN
12219+89		RT	E116																																						RETAIN
12219+88	12219+89	RT	E117								12																																RETAIN
I-91 NORTHBOUND EXISTING																																										
22138+24	22140+68	LT	E001								18																																RETAIN
22140+69		LT	E002																																						RETAIN
22140+69	22140+69	LT/RT	E003								42																																RETAIN
22140+69	12140+79	RT	E004								36																																RETAIN
22145+69	22145+70	RT/LT	E010								24																																RETAIN
22148+73	22148+77	LT/RT	E013								24																																RETAIN
22148+73		LT	E014																																							RETAIN
22148+73	22148+74	LT	E015								24	6																															REMOVE EXIST 6' X 24" RCP
22147+89	22148+09	LT	E018								6																																RETAIN
22153+27		RT	E019																											X									X				RETAIN
22153+28	22153+31	RT/LT	E020								18	55																																REMOVE EXIST 55' X 18" CMP
22153+31		LT	E021																											X								X				RETAIN
22153+31	12153+30	LT/RT	E022								24																																RETAIN
								12" RCP CL III	0		18" CPEP	0	12" CPEP(SL)	0					0 -4'	0 -4'						0 A			306.5		1 CL I	4		0		0	Type I	0	2	5	0		
								18" RCP CL III	0		24" CPEP	0	15" CPEP(SL)	0					0 -5'								0 D												Type II	0					
								24" RCP CL III	0				18" CPEP(SL)	0					0 -6'								0 E																		
													24" CPEP(SL)	0													0 MH																		
																											0 BH																	

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574frm	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE DETAIL SHEET 4	SHEET 47 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 5

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
22153+32	22157+19	LT	E027								24																															RETAIN
22154+95	22155+15	RT	E026								12																															RETAIN
22157+20		LT	E028																																					RETAIN
22157+21	22158+50	LT/RT	E029								30																															RETAIN
22158+21		LT	E032																																				X			RETAIN
22158+22	22159+43	LT	E033								18																															RETAIN
22158+55	22159+32	RT	E038								36																															RETAIN
22159+45		LT	E034																									CB											X			
22159+45	22160+74	LT	E035								18																															RETAIN
22160+75		LT	E036																																							RETAIN
22160+77	22161+08	LT/RT	E037								24																															RETAIN
22165+36	22165+38	RT	E039								18																															RETAIN
22165+36		RT	E040																									CB				X										
22165+36	22165+37	RT/LT	E041								18	54																															REMOVE EXIST 54' X 18" CMP
22165+37		LT	E042																													X							X			RETAIN
22169+37	22169+38	RT	E043								18																															RETAIN
22169+37	22169+38	LT/RT	E044								18	54																															REMOVE EXIST 54' X 18" CMP
22169+37		LT	E045																													X							X			RETAIN
22169+38		RT	E119																									CB				X										
22173+37	22173+37	RT	E051								18																															RETAIN
22173+37		RT	E052																									CB														
22173+37	22176+37	RT/LT	E053								18	54																															REMOVE EXIST 54' X 18" CMP
22173+37		LT	E054																									CB											X			
22175+74		LT	E055																																				X			RETAIN
22175+75	22176+86	LT	E056								18	111																															REMOVE EXIST 111' X 18" CMP
22176+87		LT	E057																									CB				X							X			
22176+87	22176+88	LT/RT	E058								18	75																															REMOVE EXIST 75' X 18" CMP
22181+50	22181+83	RT/LT	E059								18																															RETAIN
22181+50	22181+85	RT/LT	E061								18																															RETAIN
22181+85		LT	E060																									DI											X			
22184+90		LT	E062																									CB				X							X			
22184+90	22184+90	RT/LT	E063								18	82																															REMOVE EXIST 82' X 18" CMP
22210+89	22210+91	LT	E085								12	58																			9.6												REMOVE 58' X 12" CMP
22210+90		LT	E086																									DI				X										
22213+89		LT	E087																									DI				X										
22213+89	22213+89	LT	E088								12	32																			13.1												REMOVE EXIST 32' X 12" CMP
22215+93	22215+93	LT	E089								6																													X			RETAIN
22215+88	22215+87	LT	E090								12	39																			12.8												REMOVE EXIST 39' X12" CMP
22215+88		LT	E091																				4.83							11												REMOVE EXIST DI
								12" RCP CL III	0		18" CPEP	0	12" CPEP(SL)	0					0 -4'	0 -4'						0 A			46.5		0 CL I	8		0		0	Type I	0	10	0	0		
								18" RCP CL III	0		24" CPEP	0	15" CPEP(SL)	0					0 -5'							0 D												Type II	0					
								24" RCP CL III	0				18" CPEP(SL)	0					0 -6'							0 E																	
													24" CPEP(SL)	0												0 MH																	
																											0 BH															

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574frm	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE DETAIL SHEET 5	SHEET 48 OF 922

HNTB

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 6

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
22215+90	22215+90	LT/RT	E092								18	96																0.1												6.3		ABANDON EXIST 96' X 18" CMP. REMOVE EXIST HW
22218+40	22218+40	LT	E094								18																												X				RETAIN
22218+40		LT	E095																								DI															
22219+62	22220+40	RT	E097								18																													X			RETAIN
22220+37	22220+42	RT	E098								6																													X			RETAIN
22220+90	22220+90	RT/LT	E096								18	95																148.4															REMOVE EXIST 95' X 18" CMP AND HEADWALL
I-91 NORTHBOUND OFF RAMP																																										
201+78	202+54	RT	E068								18	79																3.2															REMOVE EXIST 79' X 18" CMP
203+71	204+04	RT	E069								18	37																27															REMOVE EXIST 37' X 18" RCP
204+05		RT	E070																				4.63					10.5															REMOVE EXIST DI
206+01	206+39	RT	E076								18																													X			RETAIN
206+00		RT	E077																				4.4					10															REMOVE EXIST CB
205+29	205+99	LT/RT	E078								18	84																38.6															REMOVE EXIST 84' X 18" RCP
205+36	206+39	RT	E099																																								RETAIN
I-91 NORTHBOUND ON RAMP																																										
303+31	22204+88	RT/LT	E079								24	264																															30.8		FILL AND ABANDON
305+39	307+38	RT	E080																																								REMOVE EXIST BRIDGE 28-IC
305+21	306+21	RT	E081								18	104																141.3															REMOVE EXIST 104' X 18" CMP
306+22		RT	E082																				4.61					10.5															REMOVE EXIST DI
307+00		RT	E083																				6.33					8.2															REMOVE EXIST DI
307+00	307+66	RT	E084								18	97																61.4															REMOVE EXIST 97' X 18" CMP
306+96	306+99	RT	E118								6																																	ABANDON 6" UNDERDRAIN
I-91 SOUTHBOUND ON RAMP																																										
401+70	402+03	LT/RT	E093								18																																	RETAIN
402+03		RT	E100																								DI															RETAIN
I-91 CHARLESTOWN ROAD EXISTING																																											
114+14	118+12	LT	E201								24																																	RETAIN
118+12	118+12	LT	E202								18																																	RETAIN
118+12		LT	E203																																						X			RETAIN
118+12	118+12	LT/RT	E204								24																																	RETAIN
118+12		RT	E205																																						X			RETAIN
118+12	119+44	RT	E206								18																																X			RETAIN
118+12	120+14	LT	E208								24	19																17.9															REMOVE 19' OF 24" RCP. RET. REMAINDER OF PIPE
120+15		LT	E210																				6.3					12.4															REMOVE EXIST CB
120+15	120+29	LT	E211								24	16																11.4															REMOVE 16' OF 24" RCP. RET. REMAINDER OF PIPE
120+29		LT	E212																								MH															
120+29	120+31	RT	E213								24																																	RETAIN
120+31		RT	E214																								CB															
120+31	121+62	RT	E215								24																																	RETAIN
								12" RCP CL III	0		18" CPEP	0	12" CPEP(SL)	0					0 -4'	0 -4'						0 A		500.9		0 CL I	0		0		0	Type I	0	2	6	37.1		
								18" RCP CL III	0		24" CPEP	0	15" CPEP(SL)	0					0 -5'								0 D										Type II	0					
								24" RCP CL III	0				18" CPEP(SL)	0					0 -6'								0 E															
													24" CPEP(SL)	0													0 MH															
																											0 BH															

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
DRAINAGE DETAIL SHEET 6

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 7

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	UNDERDRAIN PIPE	CAAP TH	RCP CL	CPEP	CPEP (SL)	PCCSP PI TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	EA	EA	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	CY		
121+62		RT	E216																							CB																
121+63	122+44	RT	E217								18																															RETAIN
122+45		RT	E218																																				X		RETAIN
124+76	124+77	LT	E219								36																															RETAIN
125+68	125+72	LT	E221								18																															RETAIN
125+72		LT	E220																							CB																
127+18	127+94	RT	E222								18	104																110														REMOVE EXIST 104' X 18" RCP AND HEADWALL
128+37	128+50	LT	E224								18																															RETAIN
128+50		LT	E223																																				X		RETAIN
128+50	129+51	LT	E225								18																															RETAIN
129+51		LT	E226																																				X		RETAIN
132+49		RT	E227																				3.7					8.4														REMOVE EXIST CB
132+49	132+65	RT/LT	E228								18	65																49.8														REMOVE EXIST 65' X 18" CMP
132+65		LT	E229																				7.3					19.2														REMOVE EXIST CB
132+65	132+74	LT	E230								18	65																14.7														REMOVE EXIST 65' X 18" CMP
132+50	135+26	RT	E232								18	265																246														REMOVE EXIST 265' X 18" CMP
132+74		LT	E231																																							RETAIN
135+27		RT	E233																				5.5					13.1														REMOVE EXIST CB
135+27	135+45	RT/LT	E234								18	57																69.5														REMOVE EXIST 57' X 18" CMP
135+45		LT	E235																				13.96					32.9														REMOVE EXIST CB
135+45		LT	E236																				3.97					7.1														REMOVE EXIST CB
135+45	135+88	LT	E237								18	155																334.3														REMOVE EXIST 155' X 18" CMP
142+89		RT	E243																							A				I									X		
142+89	142+96	RT/LT	E244								24																															RETAIN
SHARED USE PATH																																										
2021+87		RT	E238																																				X		RETAIN
2201+87	2022+17	RT/LT	E239								18																															RETAIN
2022+17		LT	E240																							A				I									X		
2021+87	2025+39	RT	E241								18																															RETAIN
2022+17	142+89	LT/RT	E242								18																															RETAIN
2022+93	2023+55	LT	E245								18																															RETAIN
2025+40		RT	E246																																							RETAIN
1118+07	1118+37	RT	E209								12																															RETAIN
1118+09	1118+40	LT	E207								15	31																0.9														REMOVE
SPENCER BROOK																																										
903+52	905+55	LT	E247								18	213																63.5														REMOVE EXIST 213' X 18" CMP
903+51		LT	E248																				3.4					6.1														REMOVE EXIST CB
901+23	905+26	LT	E249																																							REMOVE EXIST BRIDGE 28-1G
								12" RCP CL III	0		18" CPEP	0	12" CPEP(SL)	0				0 -4'	0 -4'						2 A		975.5		2 CL I	0		0		0	Type I	0	3	3	0		
								18" RCP CL III	0		24" CPEP	0	15" CPEP(SL)	0				0 -5'								0 D												Type II	0					
								24" RCP CL III	0				18" CPEP(SL)	0				0 -6'								0 E																	
													24" CPEP(SL)	0												0 MH																	
																											0 BH															

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574frm
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
DRAINAGE DETAIL SHEET 7

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 50 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET 8

STATION	STATION	POS.	PIPE ID NUMBER	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS						PIPE ELBOW	ES	CB	PRC MH	DEPTH CB/MH	CONC CLASS B	REINF STEEL	CB/DI GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		REHAB CB TYPE	CORING CONC.	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	GEO UND SF	STONE FILL		MARKER POSTS		FLOWABLE FILL		REMARKS
				INLET	OUTLET	IN	OUT	SPAN	RISE	L	D	L	UNDERDRAIN	CAAP	RCP	CPEP	CPEP	PCCSP	ELBOW									EARTH	ROCK									LT	RT			
								IN	IN	FT	IN	FT	PIPE	TH	CL		(SL)	TH	NO. DEG.	EA	DIA	DIA	FT	CY	LBS	TYPE	EA	CY	CY	EA	EA	CY	CY	CY	CY	SY	CY	TYPE	EA	EA	CY		

CONTROL POINTS

I 91 EXIT 7 AZ MK
PID = BBBL86
NORTH = 275254.912
EAST = 1656356.730
ELEV. = 425.475

6.4 M (21.0 FT) NORTHWEST OF THE NORTHWEST EDGE OF THE I-91 NORTHBOUND LANE, 6.4 M (21.0 FT) SOUTHEAST OF THE SOUTHEAST EDGE OF THE I-91 SOUTHBOUND LANE, 6.9 M (22.6 FT) WEST OF A METAL GUARD RAIL ON THE NORTHBOUND LANE, 85.6 M (280.8 FT) SOUTHWEST OF THE CENTER OF A 60 CM (24 INCH) SQUARE DRAIN, 6.3 M (20.7 FT) SOUTHWEST OF THE NORTHEAST EDGE OF ROCK OUTCROP, 7.1 M (23.3 FT) EAST NORTHEAST OF A 5 CM (2 INCH) BALSAM, 6.1 M (20.0 FT) SOUTHEAST OF A METAL GUARD RAIL AND FIBERGLASS WITNESS POST.

I 91 EXIT 7
PID = BBBK14
NORTH = 278521.277
EAST = 1658089.541
ELEV. = 346.807

IN THE MEDIAN OF I91. SET ABOUT 0.1 M BELOW GROUND IN A 0.6 M DIAMETER CONCRETE BASE AND CENTERED BETWEEN THREE THREADED RODS THAT ARE 5 CM ABOVE THE CONCRETE. 3.4 M NW OF AND ABOUT 0.2 M LOWER THAN THE NB EDGE OF PAVEMENT, 9.3 M SE OF THE SB EDGE OF PAVEMENT, 49.6 M SSW OF THE SOUTHEAST CORNER OF CONCRETE CURB OF SB BRIDGE OVER RECREATIONAL PATH, 54.0 M SW OF THE SOUTHWEST CORNER OF CONCRETE CURB OF NB BRIDGE OVER RECREATIONAL PATH, AND 3.0 M NW OF A WITNESS POST IN GUARD RAIL.

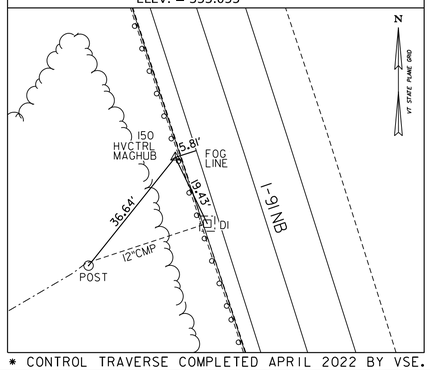
I91 1 19 C 3 RESET
PID = AA9522
NORTH = 279380.202
EAST = 1658399.826
ELEV. = 365.344

RECOVERY NOTE BY VERMONT GEODETIC SURVEY 1998 (CHR). GENERAL LOCATION, SPRINGFIELD, VT. THE MARK IS SET IN THE TOP OF THE ABUTMENT AT THE SOUTH CORNER OF THE I-91 NORTHBOUND BRIDGE OVER U.S.ROUTE 5 AND VT ROUTE 11 AT EXIT 7. IT IS 0.7 M (2.3 FT) SOUTHEAST OF AND ABOUT 0.4 M (1.3 FT) HIGHER THAN THE SOUTHEAST EDGE OF PAVEMENT OF I-91 NORTHBOUND, 2.9 M (9.5 FT) NORTHEAST OF THE SOUTHWEST END OF THE ABUTMENT, 0.9 M (3.0 FT) SOUTHWEST OF THE NORTHEAST FACE OF THE ABUTMENT, 0.2 M (0.7 FT) NORTHWEST OF THE SOUTHEAST EDGE OF THE ABUTMENT, AND 5.9 M (19.4 FT) NORTHEAST OF A FIBERGLASS WITNESS POST. STAMPING OF 1998 ADDED THIS DATE.

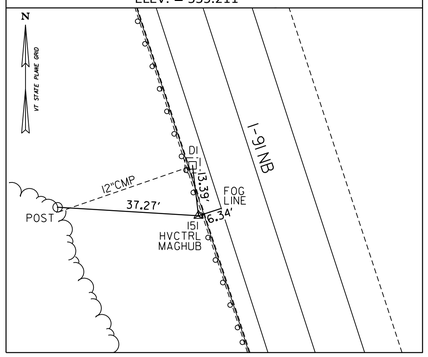
PT	NORTH	EAST	ELEV	DESC
1	275254.912	1656356.730	425.475	DISK BBBL86
2	278521.277	1658089.541	346.807	DISK BBBK14
3	279380.202	1658399.826	365.344	DISK AA9522
4	278710.199	1656378.704	310.237	HVCTRL
30	278785.113	1657282.131	323.238	HVCTRL
100	278819.997	1657115.084	313.776	HVCTRL
101	278675.463	1656912.835	311.485	HVCTRL
102	278406.303	1657099.305	316.890	HVCTRL
150	280713.453	1658208.591	333.055	MAGHUB
151	281111.181	1658078.378	335.211	MAGHUB
152	281396.274	1657983.666	341.569	MAGHUB
153	281810.924	1657841.405	350.597	MAGHUB
154	281678.901	1657697.994	344.083	MAGHUB
155	281238.785	1657819.548	347.904	MAGHUB
156	280728.606	1657963.958	353.500	MAGHUB
157	282004.498	1657742.070	362.842	MAGHUB
250	274778.791	1656066.903	450.461	MAGHUB
251	274145.432	1655562.285	491.229	MAGHUB
252	273560.481	1655121.752	513.759	5/8"REBAR VSE CONTROL CAP
253	273326.319	1655301.388	519.427	MAGHUB
254	273818.286	1655635.226	501.779	MAGHUB
255	274377.852	1655965.851	468.742	MAGHUB
256	274933.216	1656268.201	436.545	MAGHUB
257	275354.279	1656482.405	415.286	MAGHUB
258	275859.068	1656642.935	363.659	MAGHUB
259	276237.641	1656589.372	365.857	MAGHUB
260	275602.245	1656770.274	372.346	MAGHUB
261	275371.397	1656789.001	378.322	MAGNAIL
262	275956.442	1656693.436	370.466	MAGHUB
263	275887.420	1656688.206	367.193	MAGHUB
264	275927.229	1656635.080	367.252	MAGHUB
265	275829.198	1656613.922	382.072	MAGHUB
266	275725.829	1656643.403	383.784	MAGHUB
267	275815.678	1656669.254	367.033	MAGNAIL
268	275782.643	1656720.864	368.659	MAGHUB
269	275871.319	1656728.301	375.187	MAGHUB
270	274545.090	1655851.784	466.165	MAGHUB
271	273886.600	1655375.042	504.369	MAGHUB
272	272770.441	1655040.178	553.010	MAGHUB
273	275727.975	1656589.501	397.281	MAGHUB
274	278994.176	1659350.462	338.643	5/8"REBAR VSE CONTROL CAP
275	279587.489	1658868.484	342.104	MAGHUB
276	279562.382	1659058.803	346.813	MAGHUB
277	279323.894	1659075.928	339.487	MAGHUB
278	279226.112	1659179.090	338.994	MAGHUB
279	279100.028	1658923.604	332.120	MAGHUB
280	279273.469	1658906.038	328.611	MAGHUB
281	279511.097	1658671.199	340.021	MAGHUB
282	278977.557	1659092.784	372.270	MAGHUB
283	278654.031	1659470.684	335.770	MAGHUB

PRIMARY CONTROL

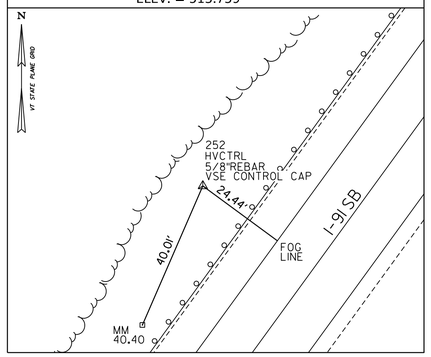
HVCTRL #150
NORTH = 280713.453
EAST = 1658208.591
ELEV. = 333.055



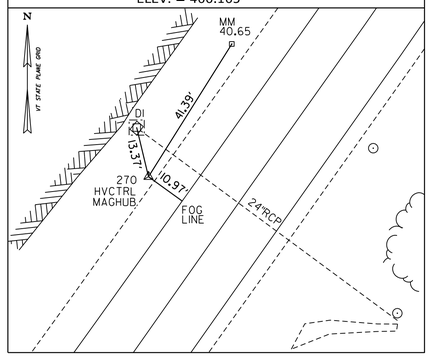
HVCTRL #151
NORTH = 281111.181
EAST = 1658078.378
ELEV. = 335.211



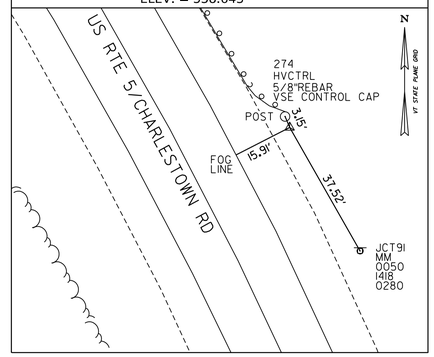
HVCTRL #252
NORTH = 273560.481
EAST = 1655121.752
ELEV. = 513.759



HVCTRL #270
NORTH = 274545.090
EAST = 1655851.784
ELEV. = 466.165

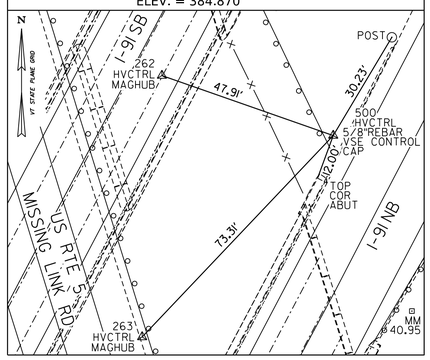


HVCTRL #274
NORTH = 278994.176
EAST = 1659350.462
ELEV. = 338.643

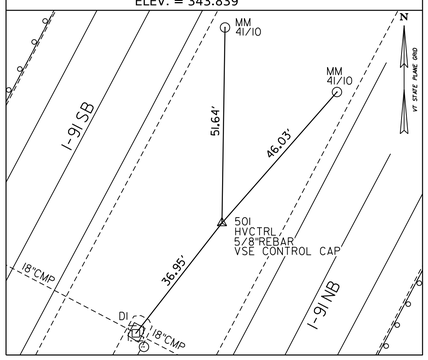


* CONTROL TRAVERSE COMPLETED APRIL 2022 BY VSE.

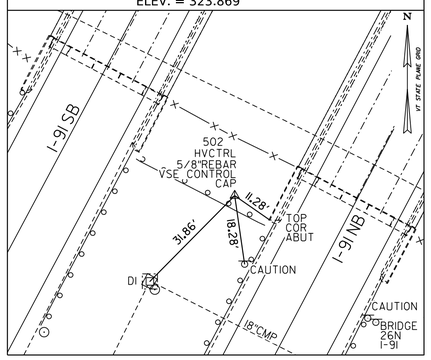
HVCTRL #500
NORTH = 275940.608
EAST = 1656738.659
ELEV. = 384.870



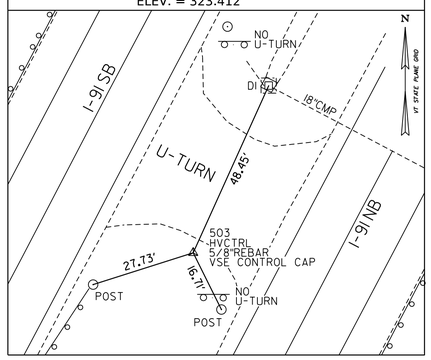
HVCTRL #501
NORTH = 276608.328
EAST = 1657078.386
ELEV. = 343.839



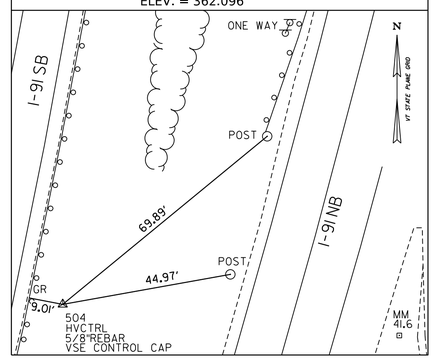
HVCTRL #502
NORTH = 277265.673
EAST = 1657427.286
ELEV. = 323.869



HVCTRL #503
NORTH = 277908.162
EAST = 1657760.491
ELEV. = 323.412



HVCTRL #504
NORTH = 278988.608
EAST = 1658229.633
ELEV. = 362.096



DATUM

VERTICAL	NAVD88
HORIZONTAL	NAD83(2011)
ADJUSTMENT	LSQ

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ti.dgn
PROJECT LEADER:
DESIGNED BY:
TIE SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: J. RILEY
CHECKED BY: A. McQUEENEY
SHEET 52 OF 922

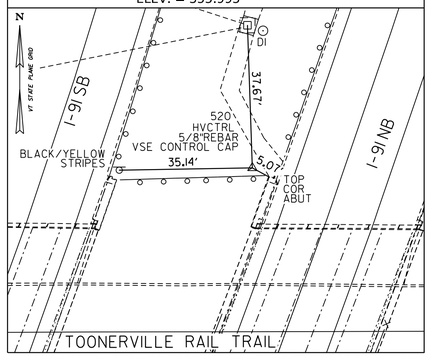
CONTROL POINTS

PT	NORTH	EAST	ELEV	DESC
284	276006.865	1656822.276	378.904	MAGHUB
285	276128.004	1656887.354	371.858	MAGHUB
286	275082.607	1656185.370	431.780	MAGHUB
287	278841.808	1658960.743	373.263	MAGHUB
288	278774.754	1659093.440	335.944	MAGHUB
289	278729.288	1658732.491	339.877	MAGHUB
290	278775.913	1658631.237	348.231	MAGHUB
291	278879.613	1658821.186	340.053	MAGHUB
292	279413.184	1659208.537	310.227	MAGHUB
293	279199.571	1658748.420	370.632	MAGHUB
294	279119.625	1658579.689	371.813	MAGHUB
295	278917.157	1658445.603	367.374	MAGHUB
296	279584.964	1658567.907	340.616	MAGHUB
297	279752.148	1658728.467	304.187	MAGHUB
298	279728.417	1658858.401	304.458	MAGHUB
299	279783.390	1658834.690	306.435	MAGHUB
300	279190.171	1657665.851	335.765	MAGHUB
301	279463.803	1657981.170	349.773	MAGHUB
302	278957.503	1657582.172	332.130	MAGHUB
310	279809.825	1658151.785	357.912	MAGHUB
311	279858.550	1658708.973	301.780	MAGHUB
312	279851.427	1658540.144	310.836	MAGHUB
313	279961.988	1658692.281	313.249	MAGHUB
314	279961.538	1658535.957	310.695	MAGHUB
315	280112.937	1658546.601	342.340	MAGHUB
315	280112.937	1658546.601	342.340	MAGHUB
316	280246.971	1658716.135	348.377	MAGHUB
317	280001.751	1659037.502	363.385	MAGHUB
318	280621.714	1658282.616	335.210	MAGHUB
319	281025.528	1658150.722	332.816	MAGHUB
320	281423.249	1658020.202	341.114	MAGHUB
321	277974.745	1657864.751	325.437	MAGHUB
322	278161.699	1657964.551	332.637	MAGHUB
323	278378.938	1658076.917	344.049	MAGHUB
324	278575.821	1658173.784	352.306	MAGHUB
325	278426.253	1657952.711	339.980	MAGHUB
326	278157.117	1657816.671	330.186	MAGHUB
327	277990.885	1657728.335	324.077	MAGHUB
328	277849.529	1657655.324	322.029	MAGHUB
329	278717.650	1658307.807	333.643	MAGHUB
330	278727.259	1658016.443	326.470	MAGHUB
331	277525.970	1657564.994	300.933	CROSS MARK IN BOULDER
332	277334.335	1657439.536	293.735	CROSS MARK IN BOULDER
500	275940.608	1656738.659	384.870	5/8"REBAR VSE CONTROL CAP
501	276608.328	1657078.386	343.839	5/8"REBAR VSE CONTROL CAP
502	277265.673	1657427.286	323.869	5/8"REBAR VSE CONTROL CAP
503	277908.162	1657760.491	323.412	5/8"REBAR VSE CONTROL CAP
504	278988.608	1658229.633	362.096	5/8"REBAR VSE CONTROL CAP
520	278772.712	1658198.699	355.995	5/8"REBAR VSE CONTROL CAP
521	279111.026	1658302.265	362.169	5/8"REBAR VSE CONTROL CAP
522	279593.322	1658370.822	359.870	5/8"REBAR VSE CONTROL CAP
523	280205.861	1658332.819	342.003	5/8"REBAR VSE CONTROL CAP
524	279988.127	1658175.158	361.355	5/8"REBAR VSE CONTROL CAP
525	279347.882	1658295.512	366.402	5/8"REBAR VSE CONTROL CAP
530	277573.748	1657564.034	322.326	5/8"REBAR VSE CONTROL CAP
531	278333.869	1657962.565	339.884	MAGHUB
532	277307.562	1657488.225	292.808	MAGHUB
533	277319.659	1657404.710	304.239	MAGHUB
540	279508.416	1658252.062	342.380	5/8"REBAR VSE CONTROL CAP
541	279449.310	1658190.196	340.063	MAGNAIL
542	279497.756	1658428.641	339.645	MAGNAIL
543	279408.997	1658383.986	344.114	MAGHUB
544	279412.035	1658928.108	339.578	5/8"REBAR VSE CONTROL CAP
545	279281.481	1657876.654	339.577	MAGHUB
550	278608.274	1657263.557	314.421	MAGHUB
551	278708.458	1657837.663	321.778	MAGNAIL
552	278720.221	1658119.399	328.967	MAGNAIL
553	278721.016	1658212.432	331.416	MAGNAIL
554	278719.224	1658523.622	338.149	MAGHUB
555	278799.758	1658435.304	355.832	MAGHUB
556	280111.672	1658470.052	348.693	MAGHUB
557	280192.884	1658229.967	338.231	MAGNAIL
558	280389.286	1658302.359	338.071	MAGHUB
559	280479.333	1658201.148	308.517	MAGHUB
560	280491.255	1658134.838	310.660	MAGHUB
561	280368.368	1658350.499	340.850	MAGHUB
570	279554.704	1658394.526	344.338	MAGHUB
571	279531.111	1658394.347	342.128	MAGHUB
572	279450.259	1658387.225	335.066	MAGHUB
573	279488.485	1658388.376	339.642	MAGNAIL
574	279380.088	1658249.132	347.266	MAGHUB
575	279422.416	1658248.199	334.440	MAGHUB
576	279542.380	1658241.301	352.380	MAGHUB
582	279361.961	1658347.904	363.004	5/8"REBAR VSE CONTROL CAP
584	281668.626	1657654.562	346.251	MAGHUB

PRIMARY CONTROL

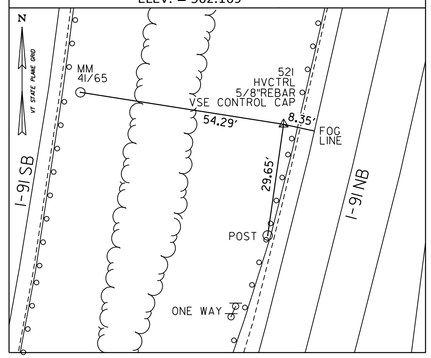
HVCTRL #520

NORTH = 278772.712
EAST = 1658198.699
ELEV. = 355.995



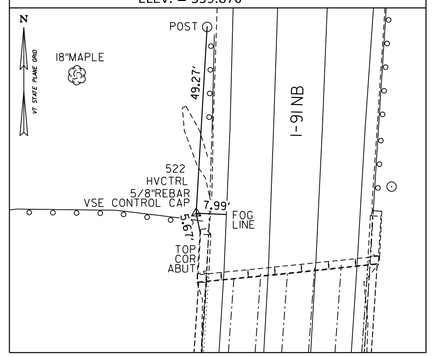
HVCTRL #521

NORTH = 279111.026
EAST = 1658302.265
ELEV. = 362.169



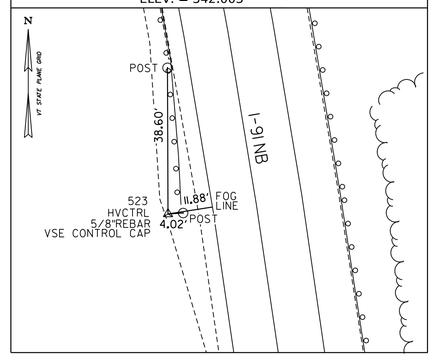
HVCTRL #522

NORTH = 279593.322
EAST = 1658370.822
ELEV. = 359.870



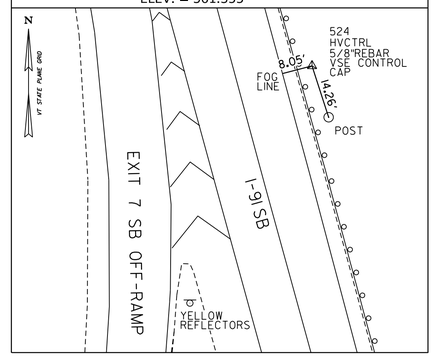
HVCTRL #523

NORTH = 280205.861
EAST = 1658332.819
ELEV. = 342.003



HVCTRL #524

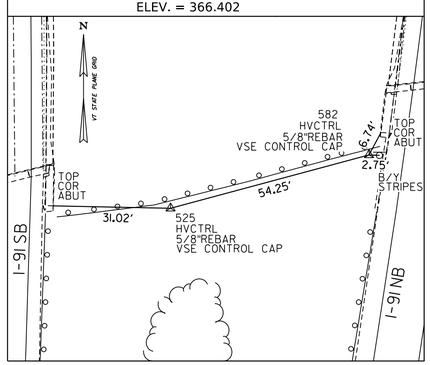
NORTH = 279988.127
EAST = 1658175.158
ELEV. = 361.355



* CONTROL TRAVERSE COMPLETED APRIL 2022 BY VSE.

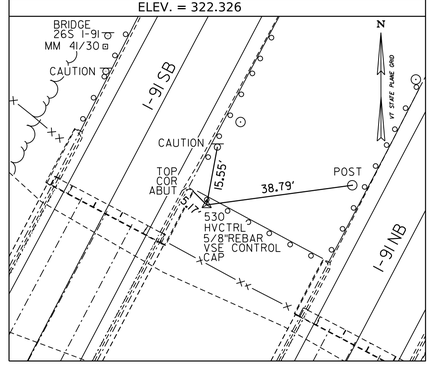
HVCTRL #525

NORTH = 279347.882
EAST = 1658295.512
ELEV. = 366.402



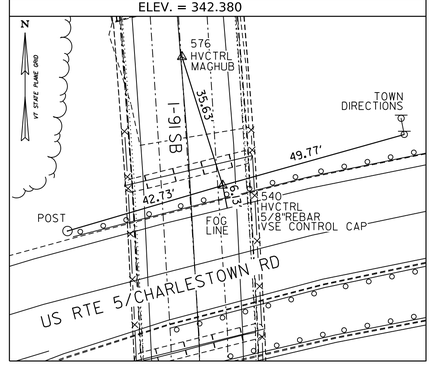
HVCTRL #530

NORTH = 277573.748
EAST = 1657564.034
ELEV. = 322.326



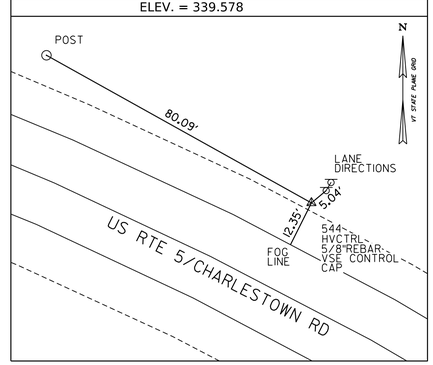
HVCTRL #540

NORTH = 279508.416
EAST = 1658252.062
ELEV. = 342.380



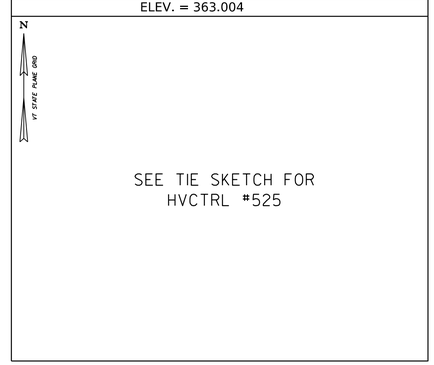
HVCTRL #544

NORTH = 279412.035
EAST = 1658928.108
ELEV. = 339.578



HVCTRL #582

NORTH = 279361.961
EAST = 1658347.904
ELEV. = 363.004



DATUM

VERTICAL NAVD88

HORIZONTAL NAD83(2011)

ADJUSTMENT LSQ

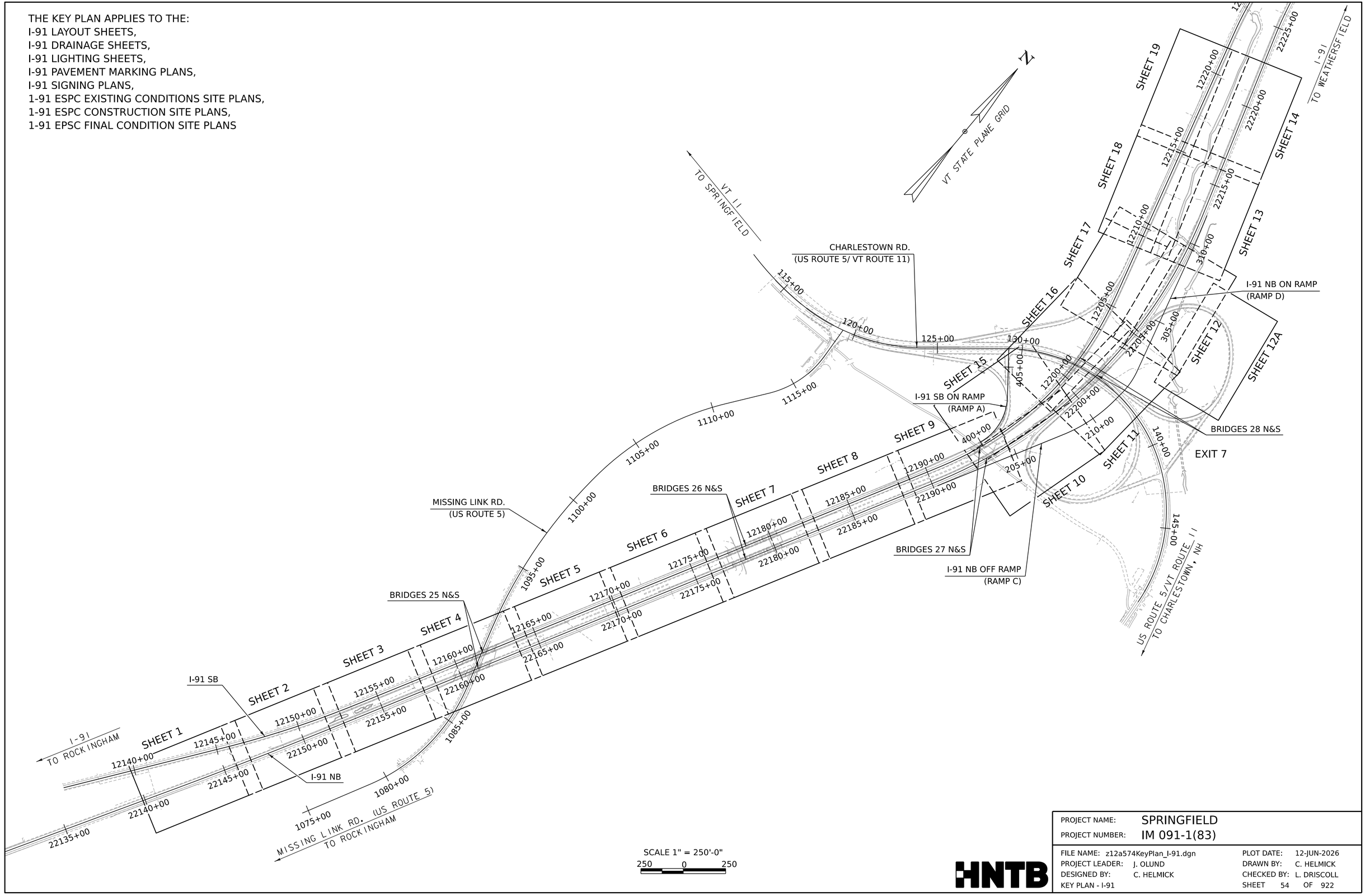
PROJECT NAME: SPRINGFIELD

PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ti.dgn
PROJECT LEADER:
DESIGNED BY:
TIE SHEET 2

PLOT DATE: 12-JUN-2026
DRAWN BY: J. RILEY
CHECKED BY: A. McQUEENEY
SHEET 53 OF 922

THE KEY PLAN APPLIES TO THE:
I-91 LAYOUT SHEETS,
I-91 DRAINAGE SHEETS,
I-91 LIGHTING SHEETS,
I-91 PAVEMENT MARKING PLANS,
I-91 SIGNING PLANS,
1-91 ESPC EXISTING CONDITIONS SITE PLANS,
1-91 ESPC CONSTRUCTION SITE PLANS,
1-91 EPSC FINAL CONDITION SITE PLANS

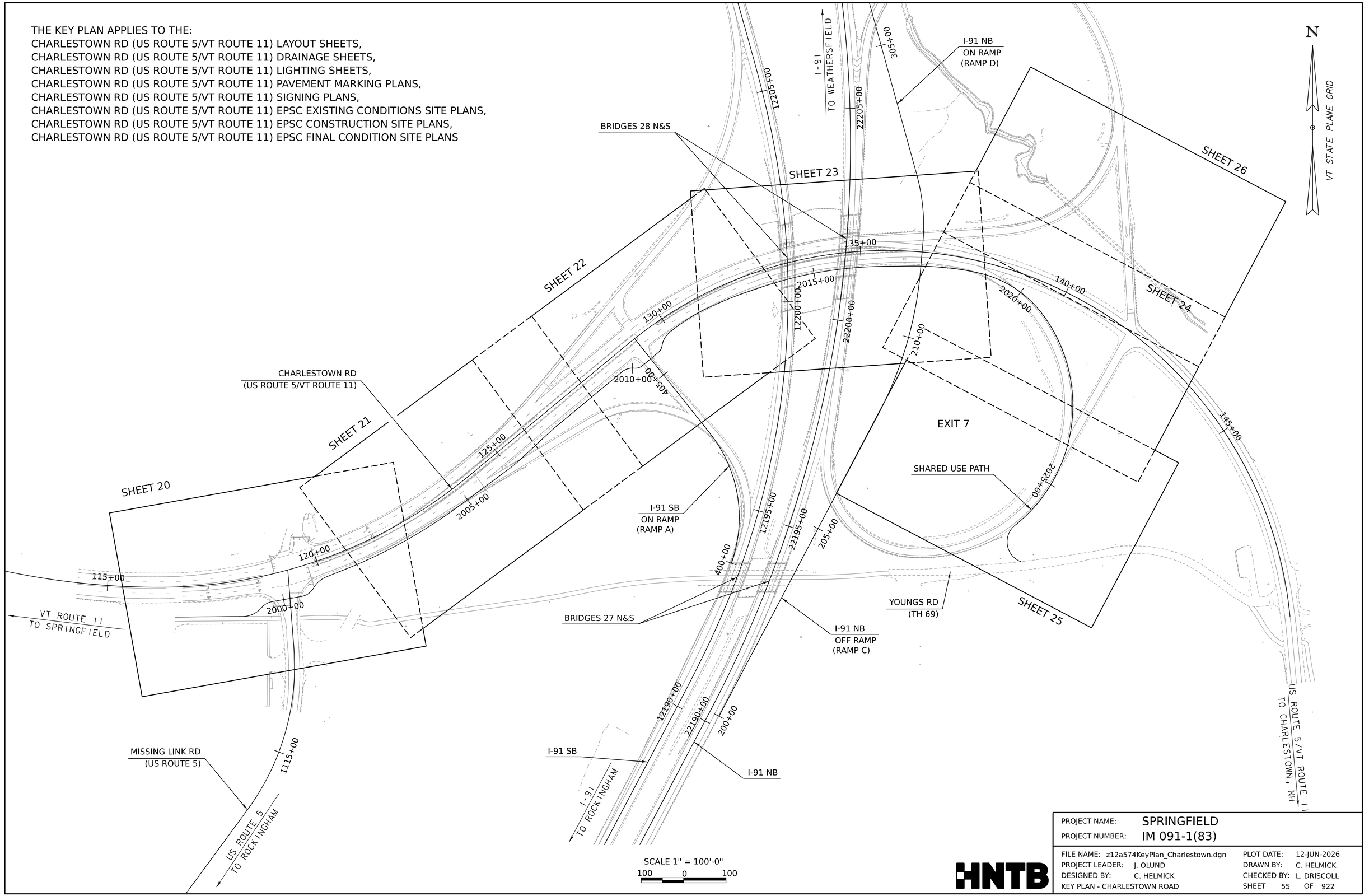


SCALE 1" = 250'-0"
250 0 250

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574KeyPlan_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
KEY PLAN - I-91	SHEET 54 OF 922

THE KEY PLAN APPLIES TO THE:
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) LAYOUT SHEETS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) DRAINAGE SHEETS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) LIGHTING SHEETS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) PAVEMENT MARKING PLANS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) SIGNING PLANS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) EPSC EXISTING CONDITIONS SITE PLANS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) EPSC CONSTRUCTION SITE PLANS,
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) EPSC FINAL CONDITION SITE PLANS

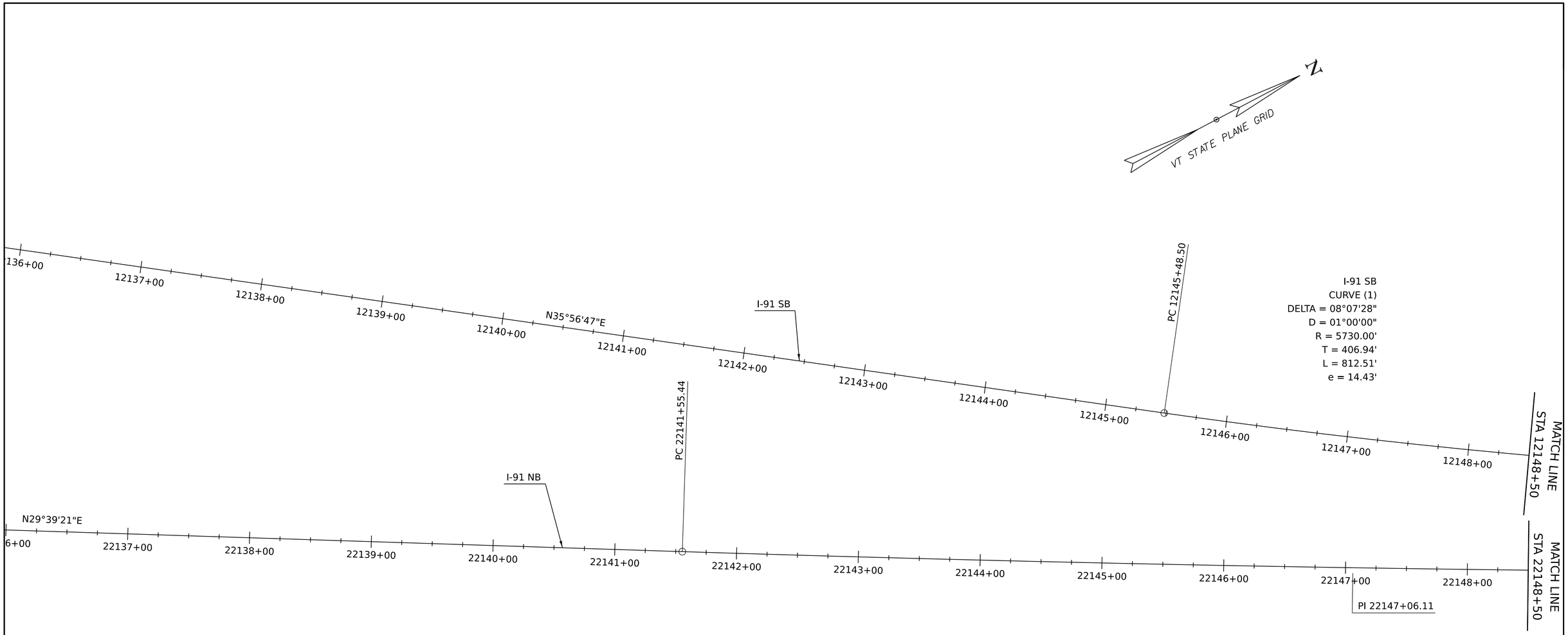


SCALE 1" = 100'-0"
100 0 100

HNTB

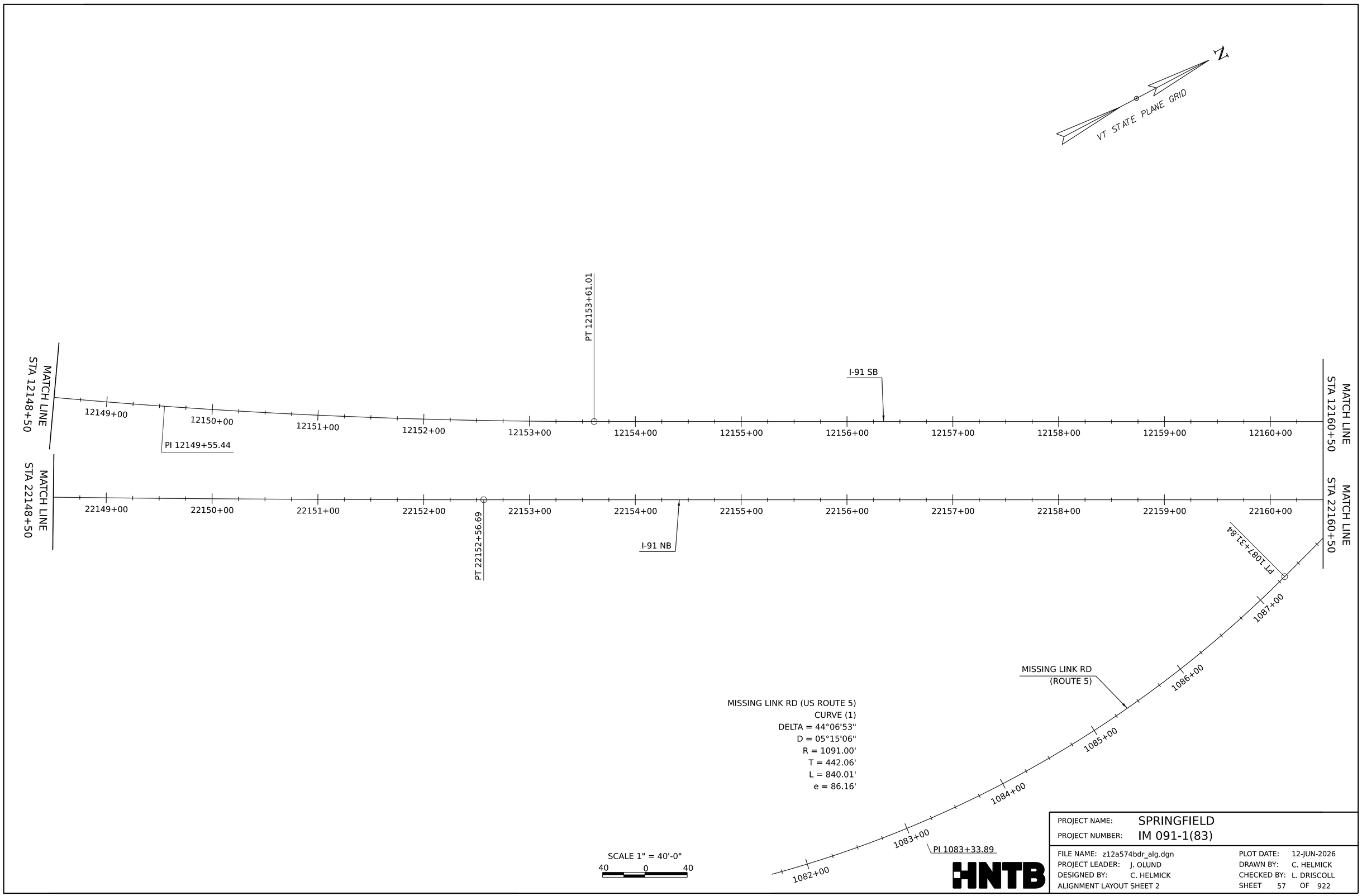
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574KeyPlan_Charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
KEY PLAN - CHARLESTOWN ROAD		SHEET	55 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 1	SHEET 56 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 2	SHEET 57 OF 922

HNTB

MATCH LINE
STA 12160+50

MATCH LINE
STA 12172+50

MISSING LINK RD
(US ROUTE 5)

1095+00
1094+00
1093+00
1092+00
1091+00
1090+00
1089+00
1088+00

MISSING LINK RD (US ROUTE 5)
CURVE (2)
DELTA = 22°33'39"
D = 01°59'59"
R = 2865.00'
T = 571.47'
L = 1128.13'
e = 56.44'

I-91 SB STA 12161+60.07 =
MISSING LINK RD (US ROUTE 5)
STA 1089+39.01
△134° 58' 51"

PC 1090+69.47

N17°11'50"W

I-91 SB

N27°49'19"E

12161+00
12162+00
12163+00
12164+00
12165+00
12166+00
12167+00
12168+00
12169+00
12170+00
12171+00
12172+00

N27°49'13"E

22161+00
22162+00
22163+00
22164+00
22165+00
22166+00
22167+00
22168+00
22169+00
22170+00
22171+00
22172+00

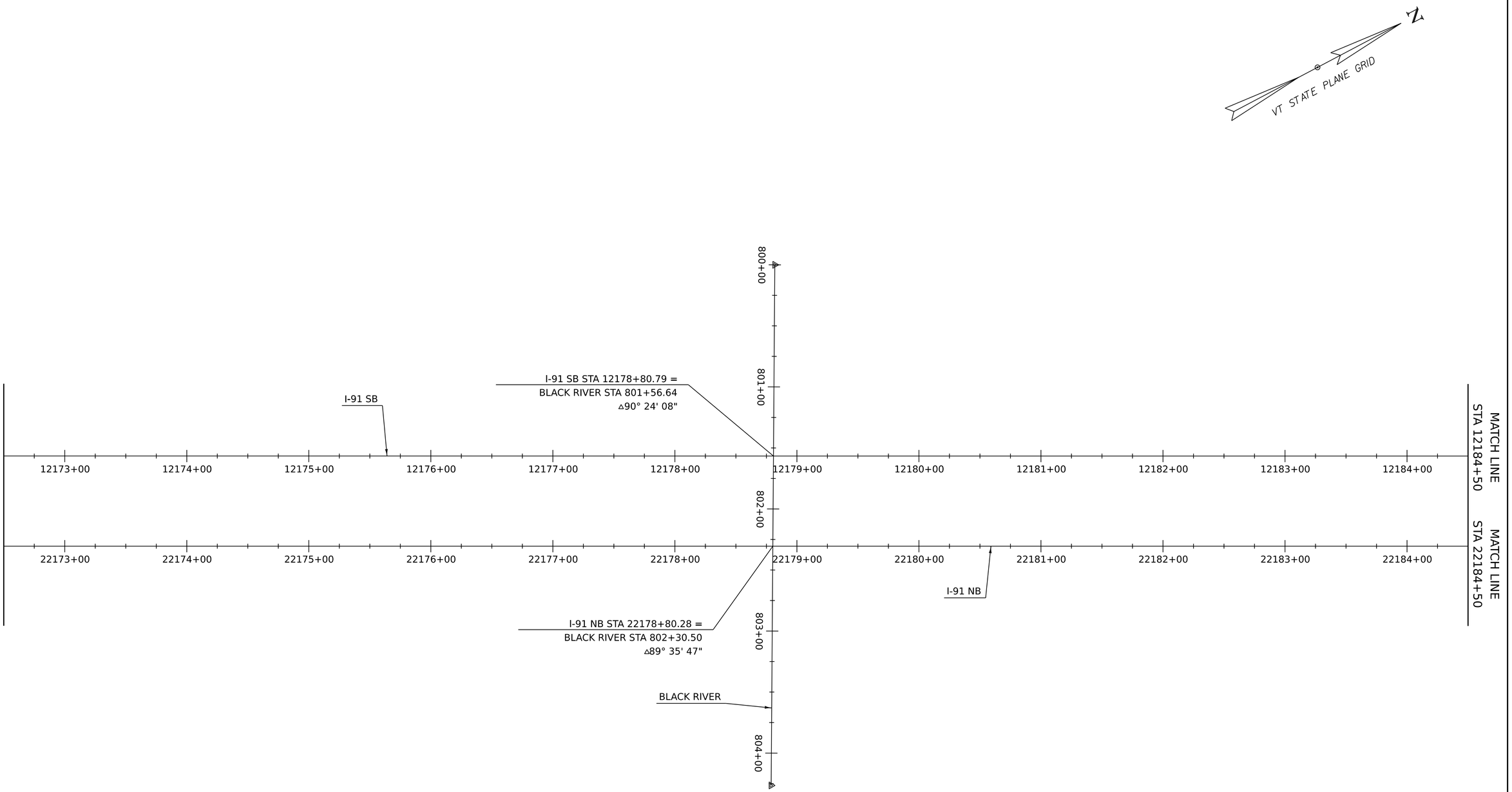
I-91 NB STA 22160+86.22 =
MISSING LINK RD (US ROUTE 5) STA 1088+34.52
△134° 58' 57"

I-91 NB

VT STATE PLANE GRID

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_alg.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
ALIGNMENT LAYOUT SHEET 3		SHEET	58 OF 922



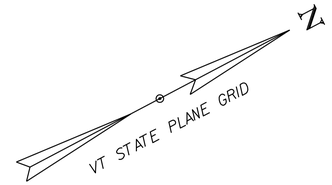
SCALE 1" = 40'-0"

40 0 40

HNTB

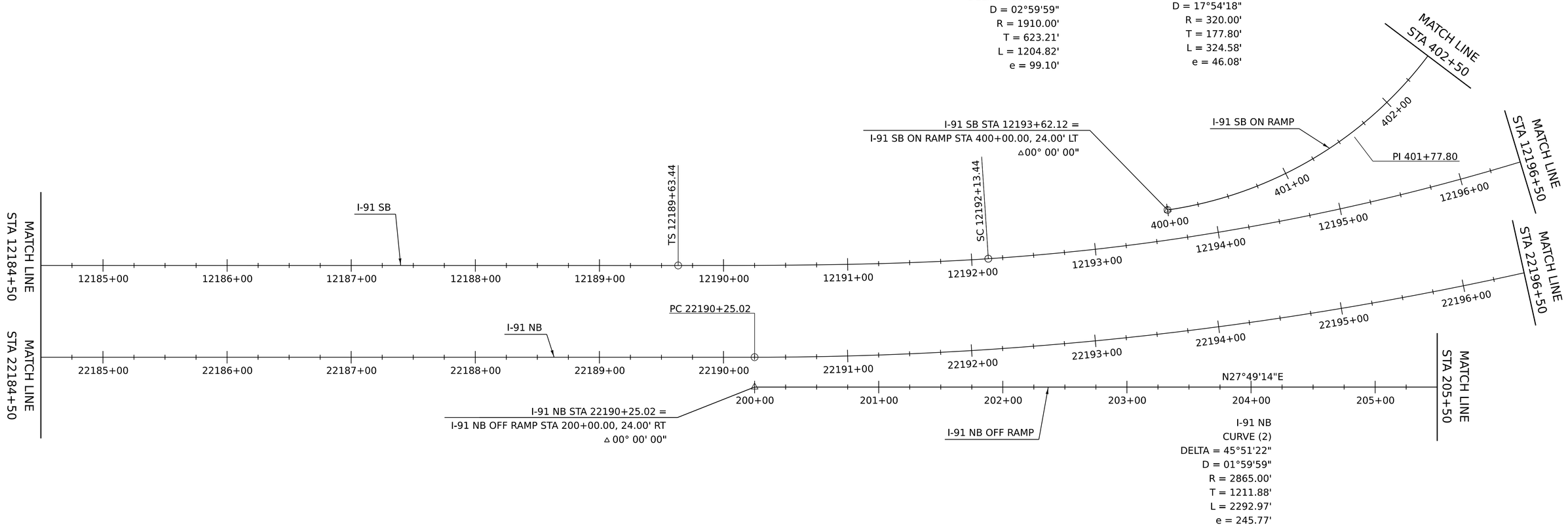
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_alg.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
ALIGNMENT LAYOUT SHEET 4		SHEET	59 OF 922



I-91 SB
CURVE (2)
DELTA = 36°08'31"
D = 02°59'59"
R = 1910.00'
T = 623.21'
L = 1204.82'
e = 99.10'

I-91 SB ON RAMP
CURVE (1)
DELTA = 58°06'55"
D = 17°54'18"
R = 320.00'
T = 177.80'
L = 324.58'
e = 46.08'

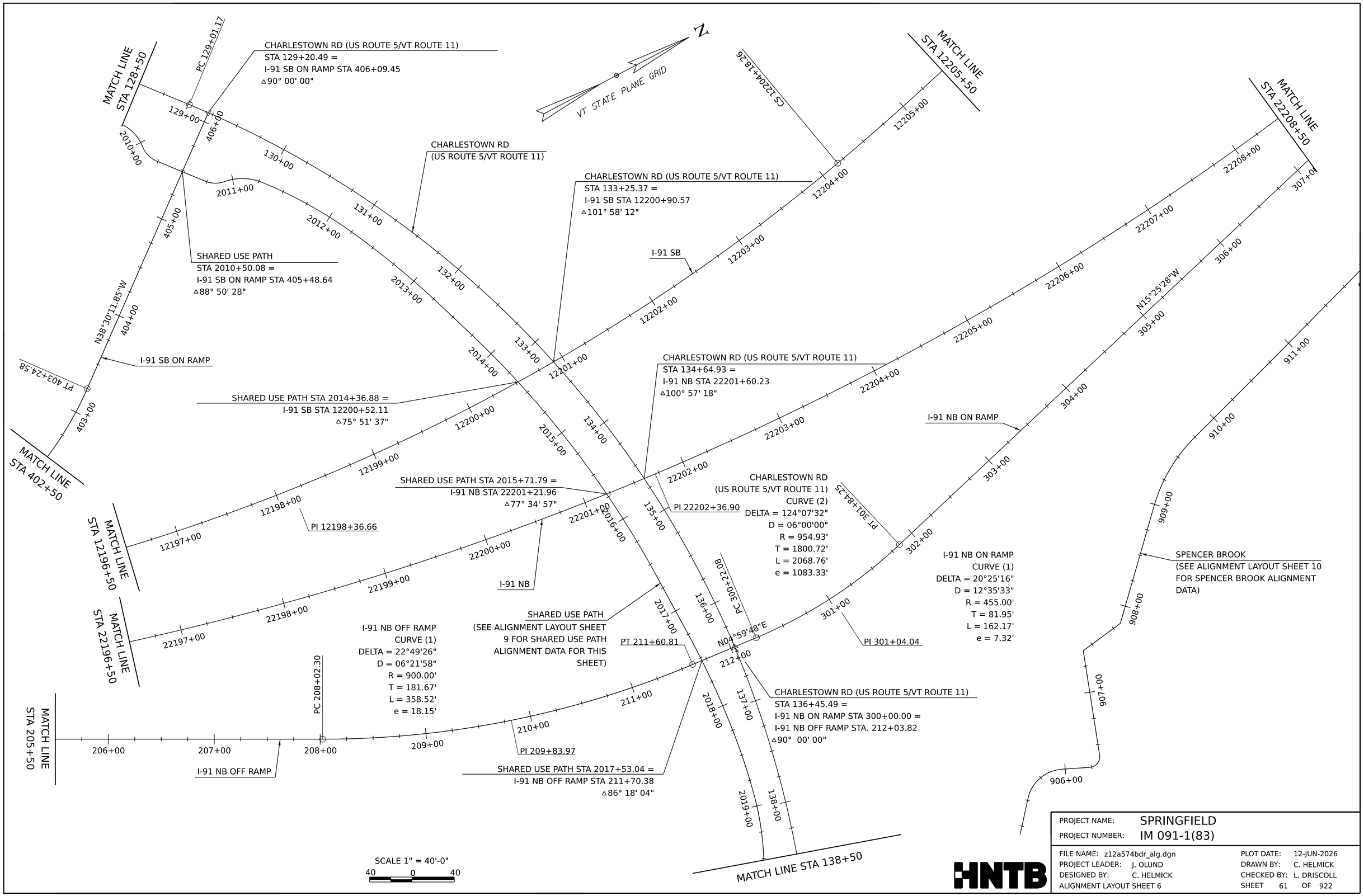


I-91 NB
CURVE (2)
DELTA = 45°51'22"
D = 01°59'59"
R = 2865.00'
T = 1211.88'
L = 2292.97'
e = 245.77'

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_alg.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
ALIGNMENT LAYOUT SHEET 5		SHEET	60 OF 922



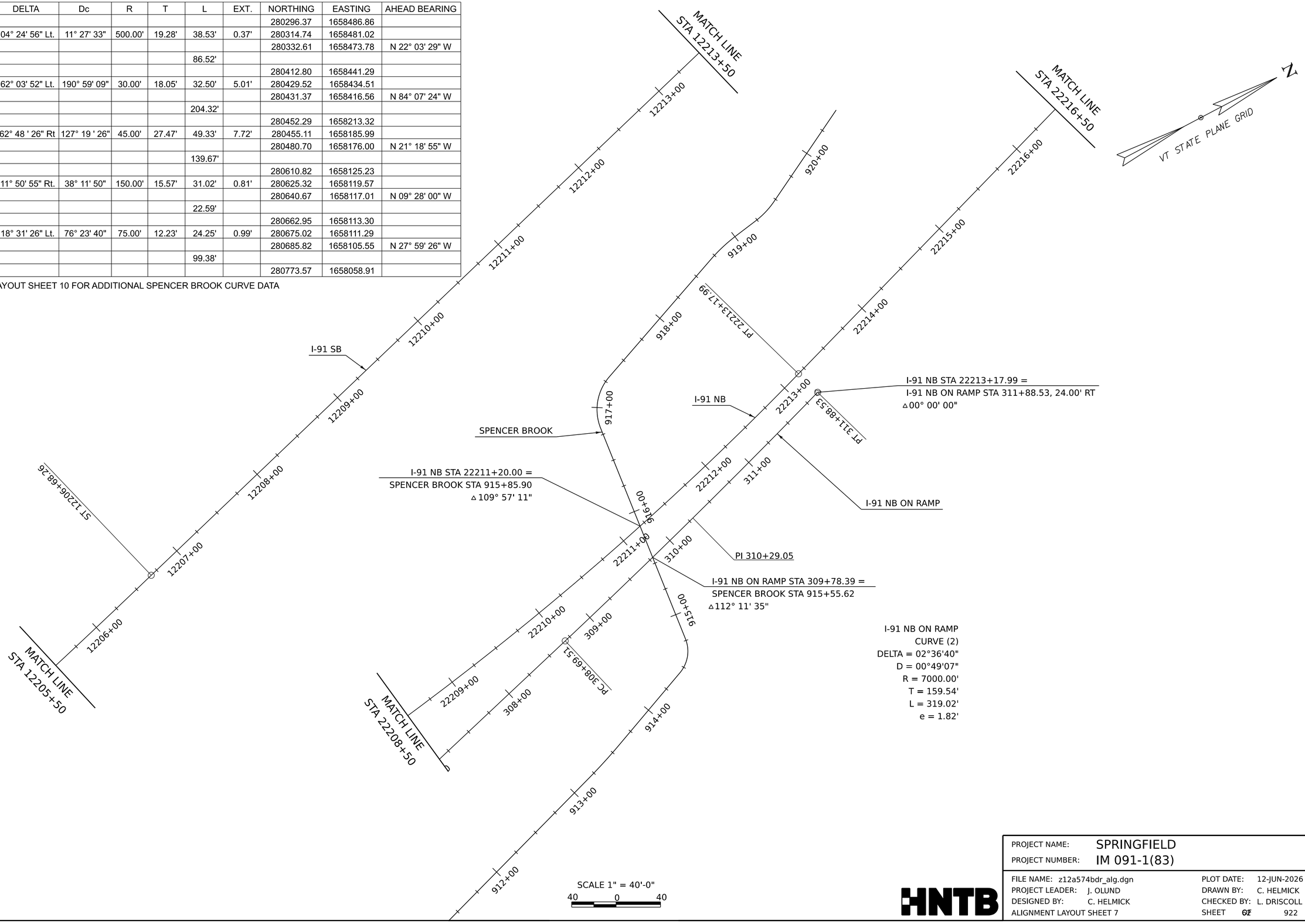
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_alg.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
ALIGNMENT LAYOUT SHEET 6	SHEET 61 OF 922

HNTB

SPENCER BROOK

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	AHEAD BEARING
PC	913+19.05							280296.37	1658486.86	
PI	913+38.33	04° 24' 56" Lt.	11° 27' 33"	500.00'	19.28'	38.53'	0.37'	280314.74	1658481.02	
PT	913+57.59							280332.61	1658473.78	N 22° 03' 29" W
TO						86.52'				
PC	914+44.11							280412.80	1658441.29	
PI	914+62.16	62° 03' 52" Lt.	190° 59' 09"	30.00'	18.05'	32.50'	5.01'	280429.52	1658434.51	
PT	914+76.61							280431.37	1658416.56	N 84° 07' 24" W
TO						204.32'				
PC	916+80.92							280452.29	1658213.32	
PI	917+08.40	62° 48 ' 26" Rt	127° 19 ' 26"	45.00'	27.47'	49.33'	7.72'	280455.11	1658185.99	
PT	917+30.25							280480.70	1658176.00	N 21° 18' 55" W
TO						139.67'				
PC	918+69.92							280610.82	1658125.23	
PI	918+85.49	11° 50' 55" Rt.	38° 11' 50"	150.00'	15.57'	31.02'	0.81'	280625.32	1658119.57	
PT	919+00.94							280640.67	1658117.01	N 09° 28' 00" W
TO						22.59'				
PC	919+23.53							280662.95	1658113.30	
PI	919+35.76	18° 31' 26" Lt.	76° 23' 40"	75.00'	12.23'	24.25'	0.99'	280675.02	1658111.29	
PT	919+47.78							280685.82	1658105.55	N 27° 59' 26" W
TO						99.38'				
POE	920+47.16							280773.57	1658058.91	

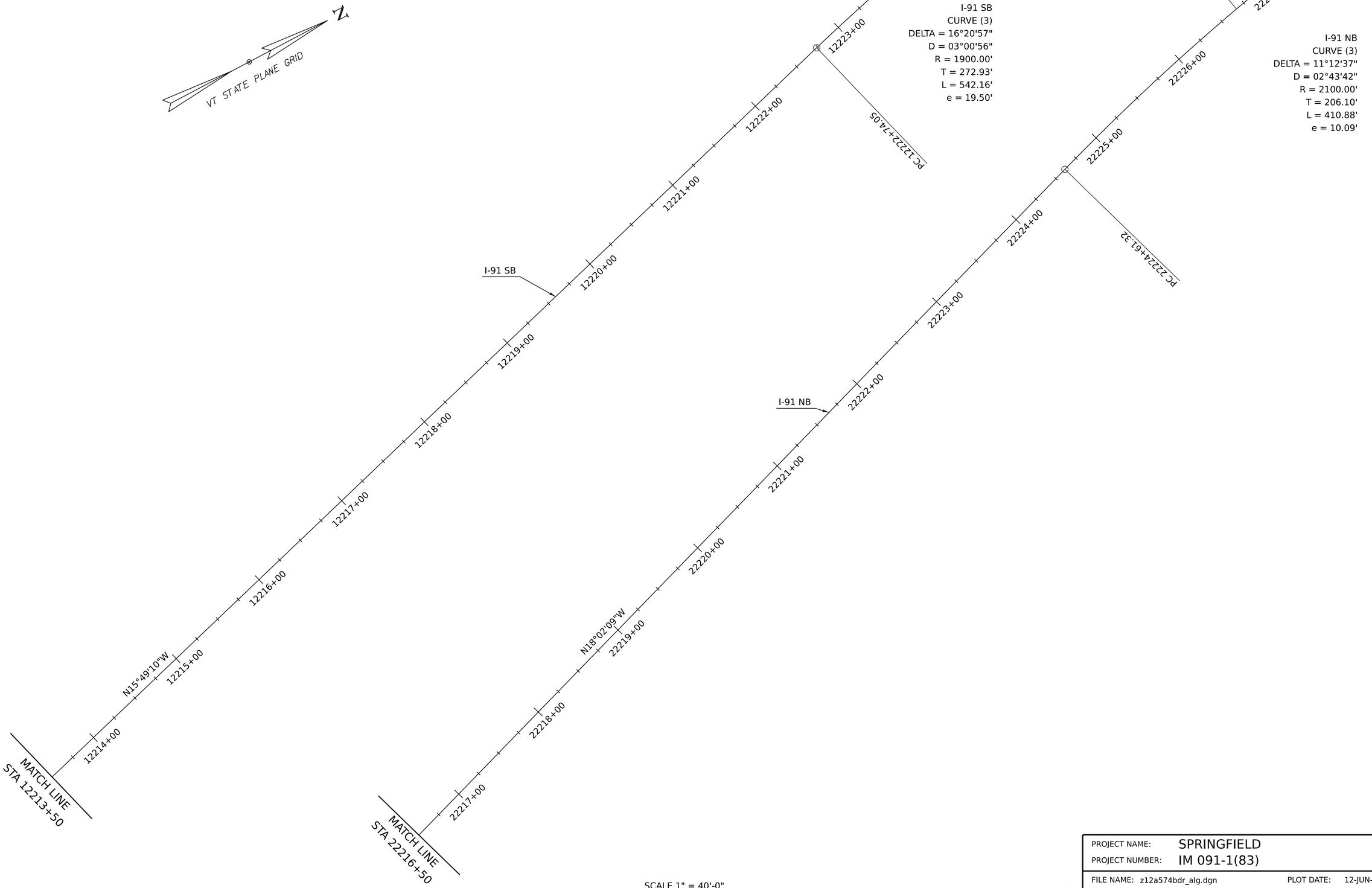
*SEE ALIGNMENT LAYOUT SHEET 10 FOR ADDITIONAL SPENCER BROOK CURVE DATA



I-91 NB ON RAMP
CURVE (2)
DELTA = 02°36'40"
D = 00°49'07"
R = 7000.00'
T = 159.54'
L = 319.02'
e = 1.82'

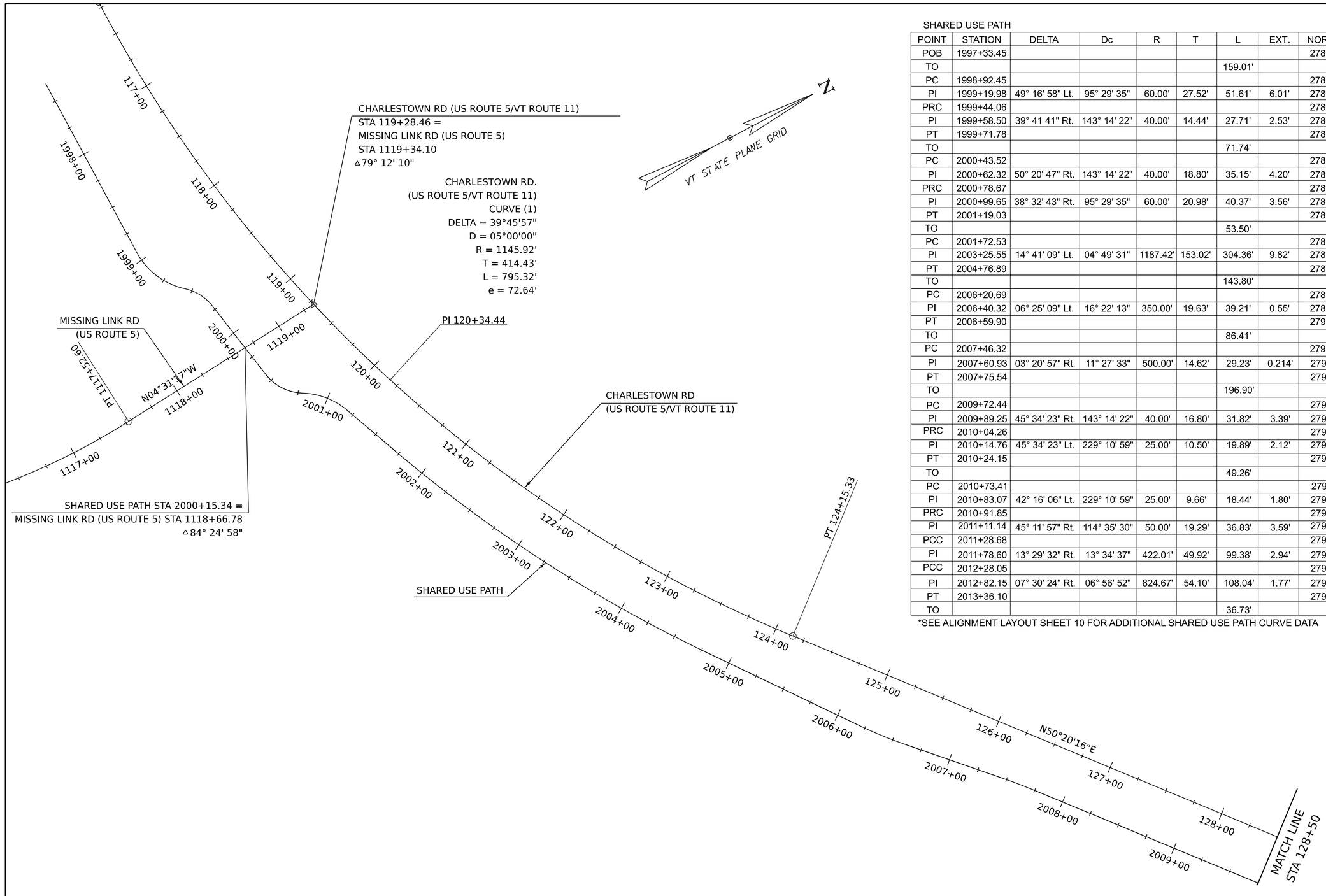
SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_alg.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
ALIGNMENT LAYOUT SHEET 7		SHEET	07 922



HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_alg.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
ALIGNMENT LAYOUT SHEET 8		SHEET	63 OF 922



SHARED USE PATH

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	AHEAD BEARING
POB	1997+33.45							278631.17	1656801.99	N 89° 28' 58" E
TO						159.01'				
PC	1998+92.45							278632.60	1656960.99	
PI	1999+19.98	49° 16' 58" Lt.	95° 29' 35"	60.00'	27.52'	51.61'	6.01'	278632.85	1656988.51	
PRC	1999+44.06							278653.87	1657006.28	N 40° 12' 00" E
PI	1999+58.50	39° 41 41" Rt.	143° 14' 22"	40.00'	14.44'	27.71'	2.53'	278664.90	1657015.60	
PT	1999+71.78							278667.44	1657029.81	N 79° 53' 41" E
TO						71.74'				
PC	2000+43.52							278680.02	1657100.44	
PI	2000+62.32	50° 20' 47" Rt.	143° 14' 22"	40.00'	18.80'	35.15'	4.20'	278683.32	1657118.95	
PRC	2000+78.67							278699.68	1657128.22	N 29° 32' 54" E
PI	2000+99.65	38° 32' 43" Rt.	95° 29' 35"	60.00'	20.98'	40.37'	3.56'	278717.93	1657138.57	
PT	2001+19.03							278725.76	1657158.03	N 68° 05' 37" E
TO						53.50'				
PC	2001+72.53							278745.72	1657207.666	
PI	2003+25.55	14° 41' 09" Lt.	04° 49' 31"	1187.42'	153.02'	304.36'	9.82'	278802.80	1657349.63	
PT	2004+76.89							278894.02	1657472.49	N 53° 24' 28" E
TO						143.80'				
PC	2006+20.69							278979.74	1657587.95	
PI	2006+40.32	06° 25' 09" Lt.	16° 22' 13"	350.00'	19.63'	39.21'	0.55'	278991.44	1657603.71	
PT	2006+59.90							279004.83	1657618.06	N 46° 59' 19" E
TO						86.41'				
PC	2007+46.32							279063.78	1657681.25	
PI	2007+60.93	03° 20' 57" Rt.	11° 27' 33"	500.00'	14.62'	29.23'	0.214'	279073.75	1657691.94	
PT	2007+75.54							279083.08	1657703.19	N 50° 20' 16" E
TO						196.90'				
PC	2009+72.44							279208.75	1657854.77	
PI	2009+89.25	45° 34' 23" Rt.	143° 14' 22"	40.00'	16.80'	31.82'	3.39'	279219.48	1657867.71	
PRC	2010+04.26							279217.75	1657884.42	S 84° 05' 21" E
PI	2010+14.76	45° 34' 23" Lt.	229° 10' 59"	25.00'	10.50'	19.89'	2.12'	279216.66	1657894.87	
PT	2010+24.15							279223.37	1657902.95	N 50° 20' 16" E
TO						49.26'				
PC	2010+73.41							279254.81	1657940.87	
PI	2010+83.07	42° 16' 06" Lt.	229° 10' 59"	25.00'	9.66'	18.44'	1.80'	279260.98	1657948.31	
PRC	2010+91.85							279270.55	1657949.67	N 08° 04' 10" E
PI	2011+11.14	45° 11' 57" Rt.	114° 35' 30"	50.00'	19.29'	36.83'	3.59'	279289.65	1657952.38	
PCC	2011+28.68							279301.98	1657967.21	N 50° 16' 07" E
PI	2011+78.60	13° 29' 32" Rt.	13° 34' 37"	422.01'	49.92'	99.38'	2.94'	279333.89	1658005.60	
PCC	2012+28.05							279355.96	1658050.38	N 63° 45' 40" E
PI	2012+82.15	07° 30' 24" Rt.	06° 56' 52"	824.67'	54.10'	108.04'	1.77'	279379.88	1658098.90	
PT	2013+36.10							279397.25	1658150.14	N 71° 16' 03" E
TO						36.73'				

*SEE ALIGNMENT LAYOUT SHEET 10 FOR ADDITIONAL SHARED USE PATH CURVE DATA

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_alg.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
ALIGNMENT LAYOUT SHEET 9

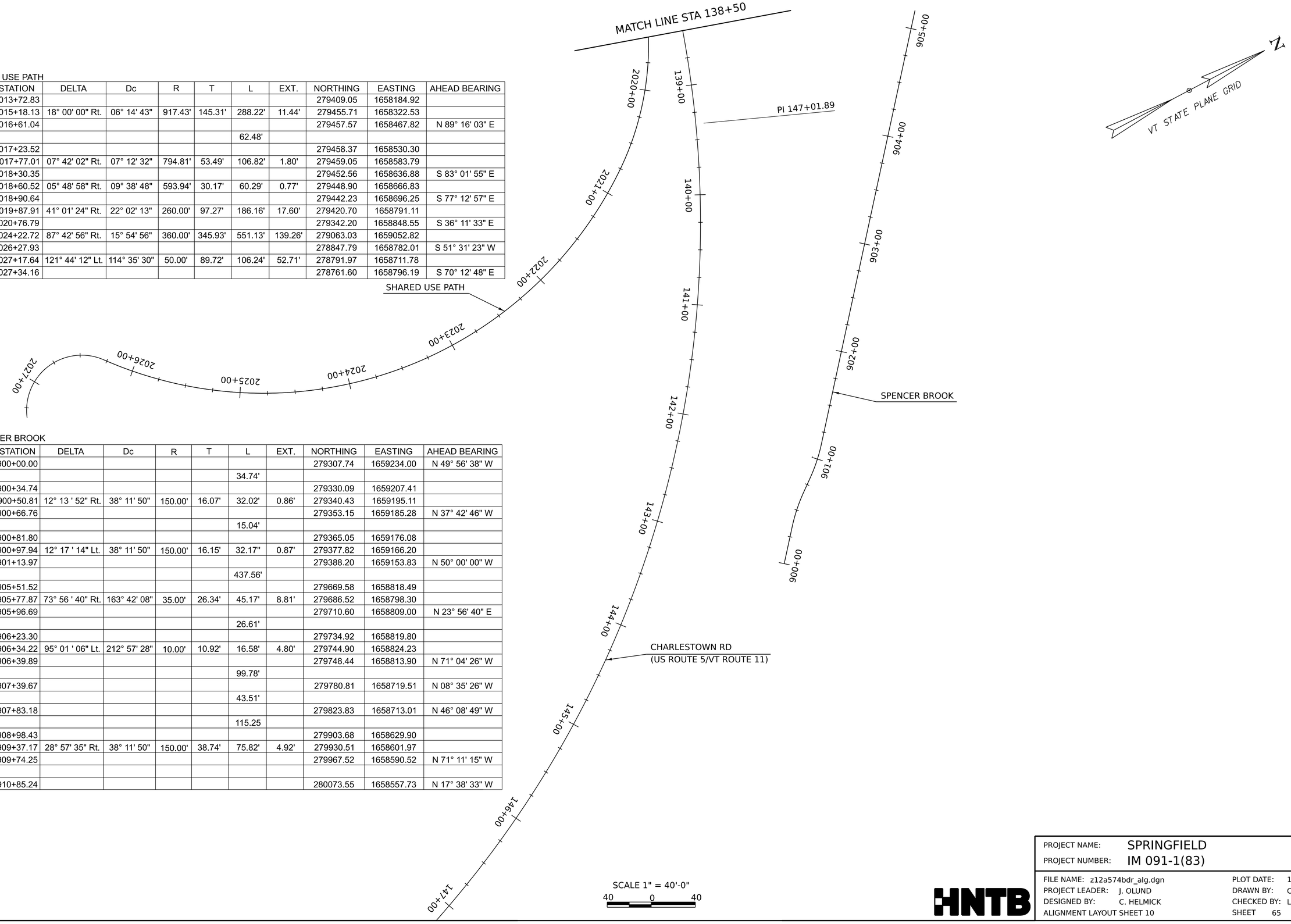
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 64 OF 922

SHARED USE PATH

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	AHEAD BEARING
PC	2013+72.83							279409.05	1658184.92	
PI	2015+18.13	18° 00' 00" Rt.	06° 14' 43"	917.43'	145.31'	288.22'	11.44'	279455.71	1658322.53	
PT	2016+61.04							279457.57	1658467.82	N 89° 16' 03" E
TO						62.48'				
PC	2017+23.52							279458.37	1658530.30	
PI	2017+77.01	07° 42' 02" Rt.	07° 12' 32"	794.81'	53.49'	106.82'	1.80'	279459.05	1658583.79	
PCC	2018+30.35							279452.56	1658636.88	S 83° 01' 55" E
PI	2018+60.52	05° 48' 58" Rt.	09° 38' 48"	593.94'	30.17'	60.29'	0.77'	279448.90	1658666.83	
PCC	2018+90.64							279442.23	1658696.25	S 77° 12' 57" E
PI	2019+87.91	41° 01' 24" Rt.	22° 02' 13"	260.00'	97.27'	186.16'	17.60'	279420.70	1658791.11	
PCC	2020+76.79							279342.20	1658848.55	S 36° 11' 33" E
PI	2024+22.72	87° 42' 56" Rt.	15° 54' 56"	360.00'	345.93'	551.13'	139.26'	279063.03	1659052.82	
PRC	2026+27.93							278847.79	1658782.01	S 51° 31' 23" W
PI	2027+17.64	121° 44' 12" Lt.	114° 35' 30"	50.00'	89.72'	106.24'	52.71'	278791.97	1658711.78	
POE	2027+34.16							278761.60	1658796.19	S 70° 12' 48" E

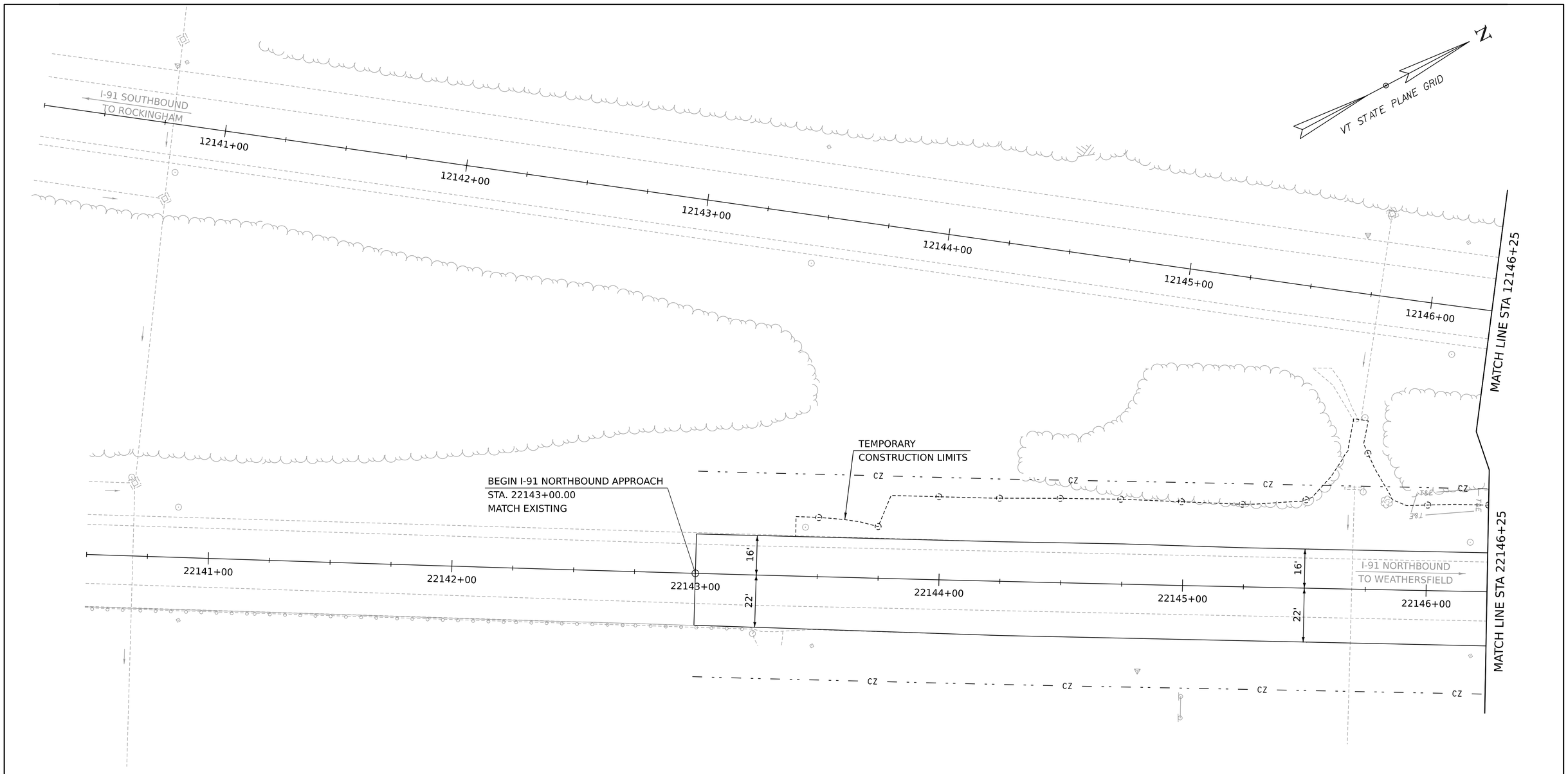
SPENCER BROOK

POINT	STATION	DELTA	Dc	R	T	L	EXT.	NORTHING	EASTING	AHEAD BEARING
POB	900+00.00							279307.74	1659234.00	N 49° 56' 38" W
TO						34.74'				
PC	900+34.74							279330.09	1659207.41	
PI	900+50.81	12° 13 ' 52" Rt.	38° 11' 50"	150.00'	16.07'	32.02'	0.86'	279340.43	1659195.11	
PT	900+66.76							279353.15	1659185.28	N 37° 42' 46" W
TO						15.04'				
PC	900+81.80							279365.05	1659176.08	
PI	900+97.94	12° 17 ' 14" Lt.	38° 11' 50"	150.00'	16.15'	32.17"	0.87'	279377.82	1659166.20	
PT	901+13.97							279388.20	1659153.83	N 50° 00' 00" W
TO						437.56'				
PC	905+51.52							279669.58	1658818.49	
PI	905+77.87	73° 56 ' 40" Rt.	163° 42' 08"	35.00'	26.34'	45.17'	8.81'	279686.52	1658798.30	
PT	905+96.69							279710.60	1658809.00	N 23° 56' 40" E
TO						26.61'				
PC	906+23.30							279734.92	1658819.80	
PI	906+34.22	95° 01 ' 06" Lt.	212° 57' 28"	10.00'	10.92'	16.58'	4.80'	279744.90	1658824.23	
PT	906+39.89							279748.44	1658813.90	N 71° 04' 26" W
TO						99.78'				
PI	907+39.67							279780.81	1658719.51	N 08° 35' 26" W
TO						43.51'				
PI	907+83.18							279823.83	1658713.01	N 46° 08' 49" W
TO						115.25				
PC	908+98.43							279903.68	1658629.90	
PI	909+37.17	28° 57' 35" Rt.	38° 11' 50"	150.00'	38.74'	75.82'	4.92'	279930.51	1658601.97	
PT	909+74.25							279967.52	1658590.52	N 71° 11' 15" W
TO										
PI	910+85.24							280073.55	1658557.73	N 17° 38' 33" W



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_alg.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
ALIGNMENT LAYOUT SHEET 10		SHEET	65 OF 922

HNTB



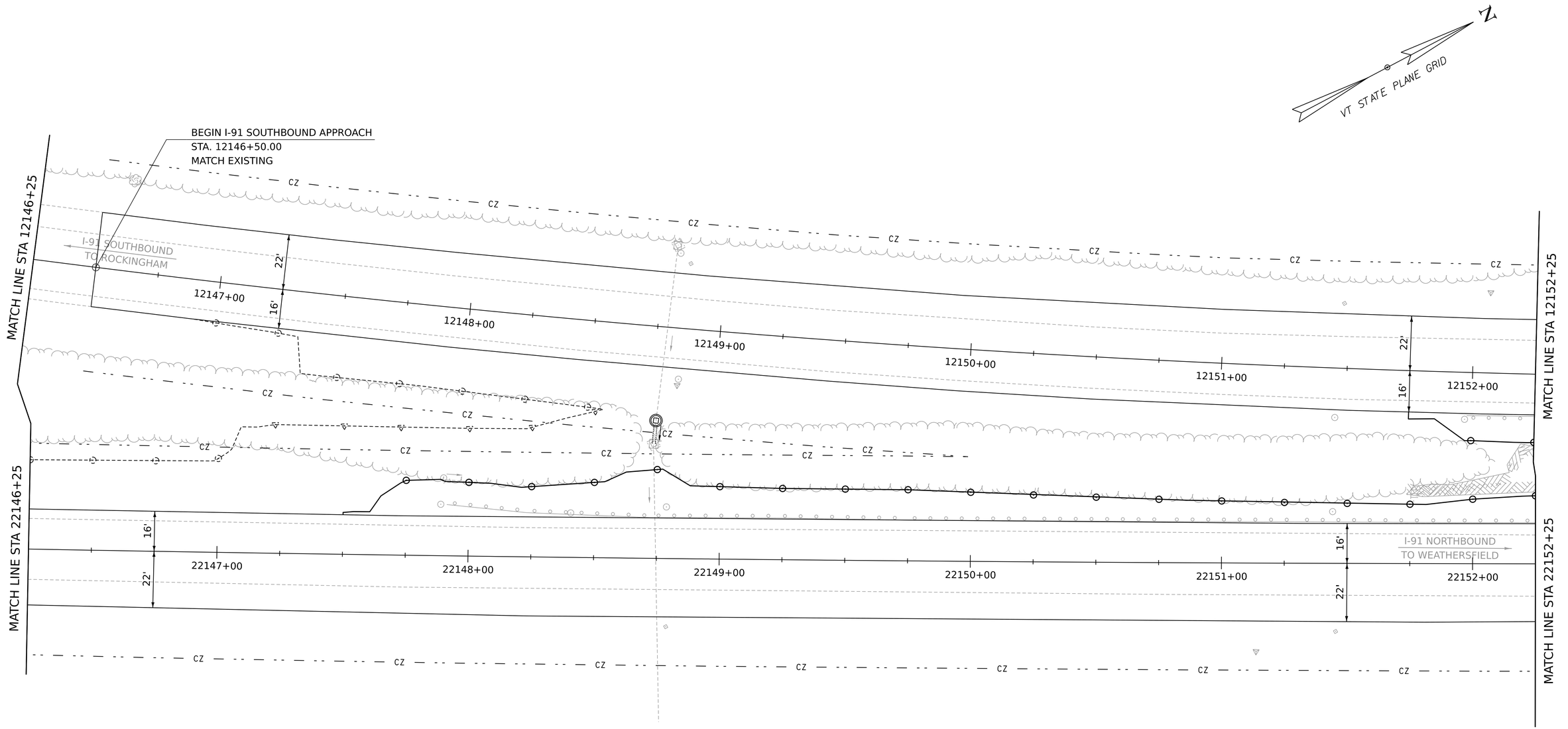
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574bdr_I-91.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 1		SHEET 66 OF 922	

REMOVAL OF GUARDRAIL
STA 12151+98 TO 12152+25 RT
STA 22147+91 TO 22152+25 LT



SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 2	SHEET 67 OF 922

HNTB

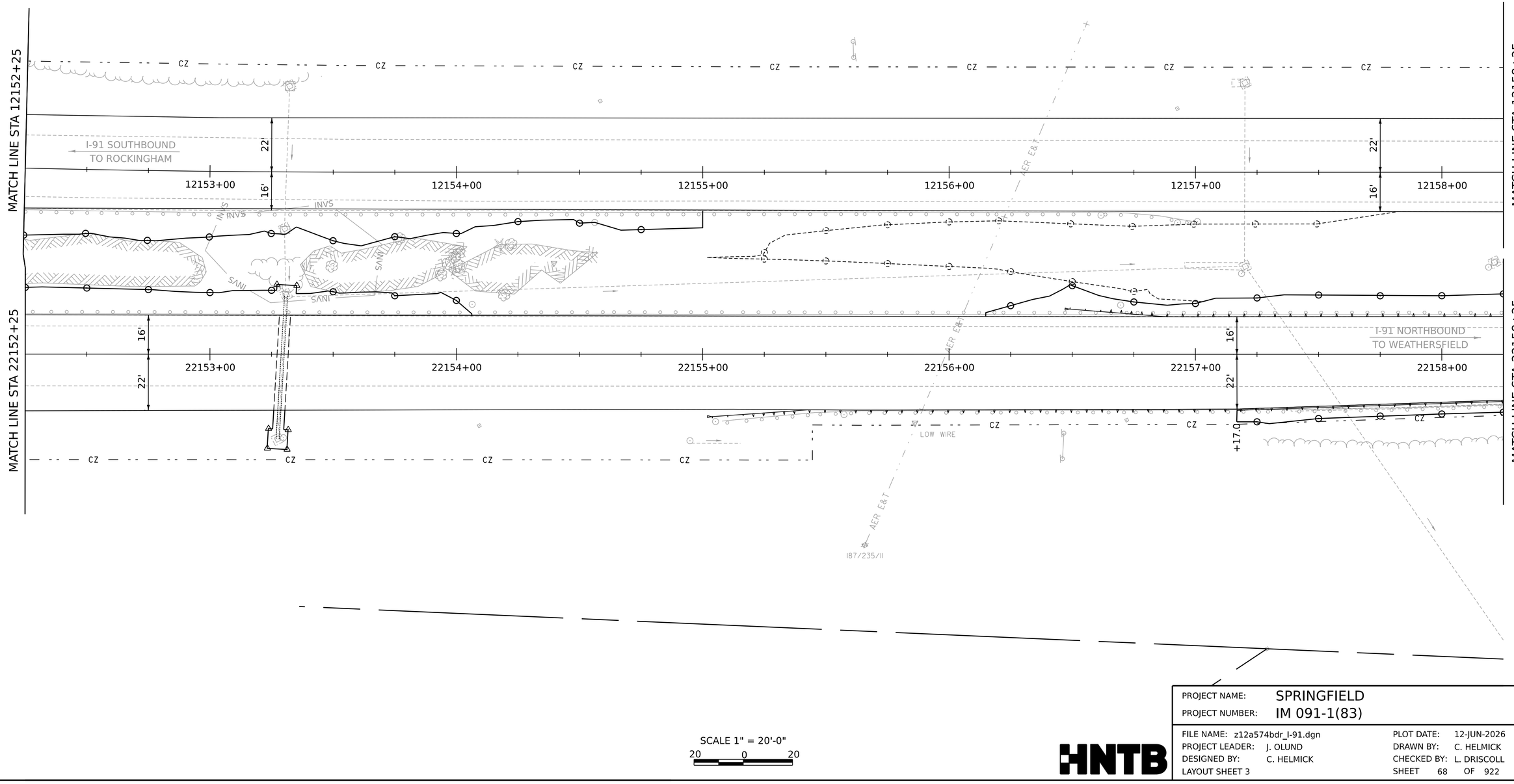
REMOVAL OF GUARDRAIL
STA 12152+25 TO 12157+00 RT
STA 22152+25 TO 22158+25 LT
STA 22155+08 TO 22158+25 RT

STEEL BEAM GUARDRAIL
STA 22155+40 TO 22158+25 RT
STA 22156+85 TO 22158+25 LT

BITUMINOUS CONCRETE CURB, TYPE A
STA 22157+17 TO 22158+25 RT

MTS, MGS, FLARED, TL-3
STA 22155+04 TO 22155+41 RT
STA 22156+50 TO 22156+87 LT

DELINEATOR WITH STEEL POST
STA 22155+04 RT
STA 22156+50 LT



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 3		SHEET	68 OF 922

REMOVAL OF GUARDRAIL
STA 12159+65 TO 12160+03 RT
STA 12159+85 TO 12160+18 LT
STA 12162+47 TO 12164+25 RT
STA 12162+79 TO 12164+25 LT
STA 22158+25 TO 22159+20 RT
STA 22158+25 TO 22159+25 LT
STA 22159+64 LT TO 12160+02 RT
STA 22161+83 TO 22164+25 RT
STA 22162+21 LT TO 12162+48 RT

GUARDRAIL APPROACH SECTION TO CONCRETE BRIDGE RAIL, TL-3
STA 12159+87 TO 12160+05 RT
STA 12160+19 TO 12160+38 LT
STA 12162+45 TO 12162+63 RT
STA 12162+78 TO 12162+96 LT
STA 22159+35 TO 22159+54 LT
STA 22159+03 TO 22159+21 RT
STA 22161+81 TO 22161+99 RT
STA 22162+14 TO 22162+32 LT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 12159+66 RT
STA 12159+99 LT
STA 22162+54 LT

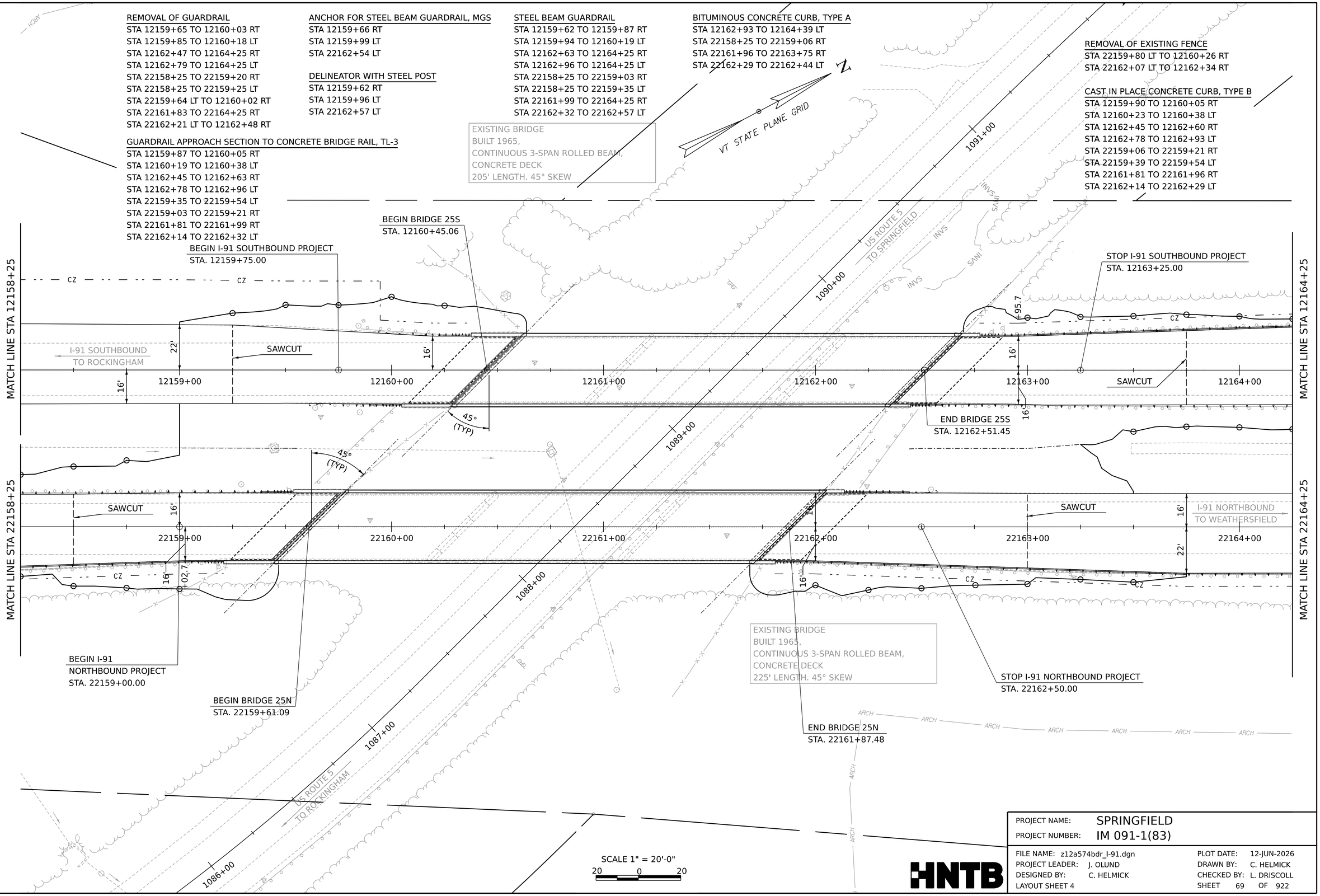
DELINEATOR WITH STEEL POST
STA 12159+62 RT
STA 12159+96 LT
STA 22162+57 LT

STEEL BEAM GUARDRAIL
STA 12159+62 TO 12159+87 RT
STA 12159+94 TO 12160+19 LT
STA 12162+63 TO 12164+25 RT
STA 12162+96 TO 12164+25 LT
STA 22158+25 TO 22159+03 RT
STA 22158+25 TO 22159+35 LT
STA 22161+99 TO 22164+25 RT
STA 22162+32 TO 22162+57 LT

BITUMINOUS CONCRETE CURB, TYPE A
STA 12162+93 TO 12164+39 LT
STA 22158+25 TO 22159+06 RT
STA 22161+96 TO 22163+75 RT
STA 22162+29 TO 22162+44 LT

REMOVAL OF EXISTING FENCE
STA 22159+80 LT TO 12160+26 RT
STA 22162+07 LT TO 12162+34 RT

CAST IN PLACE CONCRETE CURB, TYPE B
STA 12159+90 TO 12160+05 RT
STA 12160+23 TO 12160+38 LT
STA 12162+45 TO 12162+60 RT
STA 12162+78 TO 12162+93 LT
STA 22159+06 TO 22159+21 RT
STA 22159+39 TO 22159+54 LT
STA 22161+81 TO 22161+96 RT
STA 22162+14 TO 22162+29 LT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 4		SHEET	69 OF 922

HNTB

REMOVAL OF GUARDRAIL
STA 12164+25 TO 12167+09 RT
STA 12164+25 TO 12170+25 LT
STA 22164+25 TO 22170+25 RT

STEEL BEAM GUARDRAIL
STA 12164+25 TO 12165+50 RT
STA 12164+25 TO 12170+25 LT
STA 22164+25 TO 22170+25 RT

MTS, MGS, FLARED, TL-3
STA 12165+49 RT TO 12165+87 RT

DELINEATOR WITH STEEL POST
STA 12165+87 RT

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 22164+25

+75.0

CZ

I-91 SOUTHBOUND
TO ROCKINGHAM

22'

16'

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 12170+25

MATCH LINE STA 22170+25

ARCH

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 5		SHEET 70	OF 922

HNTB

REMOVAL OF GUARDRAIL
STA 12170+25 TO 12176+40 LT
STA 22170+25 TO 22176+40 RT
STA 22172+64 TO 22176+40 LT

STEEL BEAM GUARDRAIL
STA 12170+25 TO 12176+40 LT
STA 22170+25 TO 22176+40 RT
STA 22174+48 TO 22176+40 LT

MTS, MGS, FLARED, TL-3
STA 22174+11 TO 22174+48 LT

DELINEATOR WITH STEEL POST
STA 22174+11 LT

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

I-91 SOUTHBOUND
TO ROCKINGHAM

SAWCUT

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

22' 16'

CZ

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

I-91 NORTHBOUND
TO WEATHERSFIELD

SAWCUT

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

16' 22'

CZ

ARCH

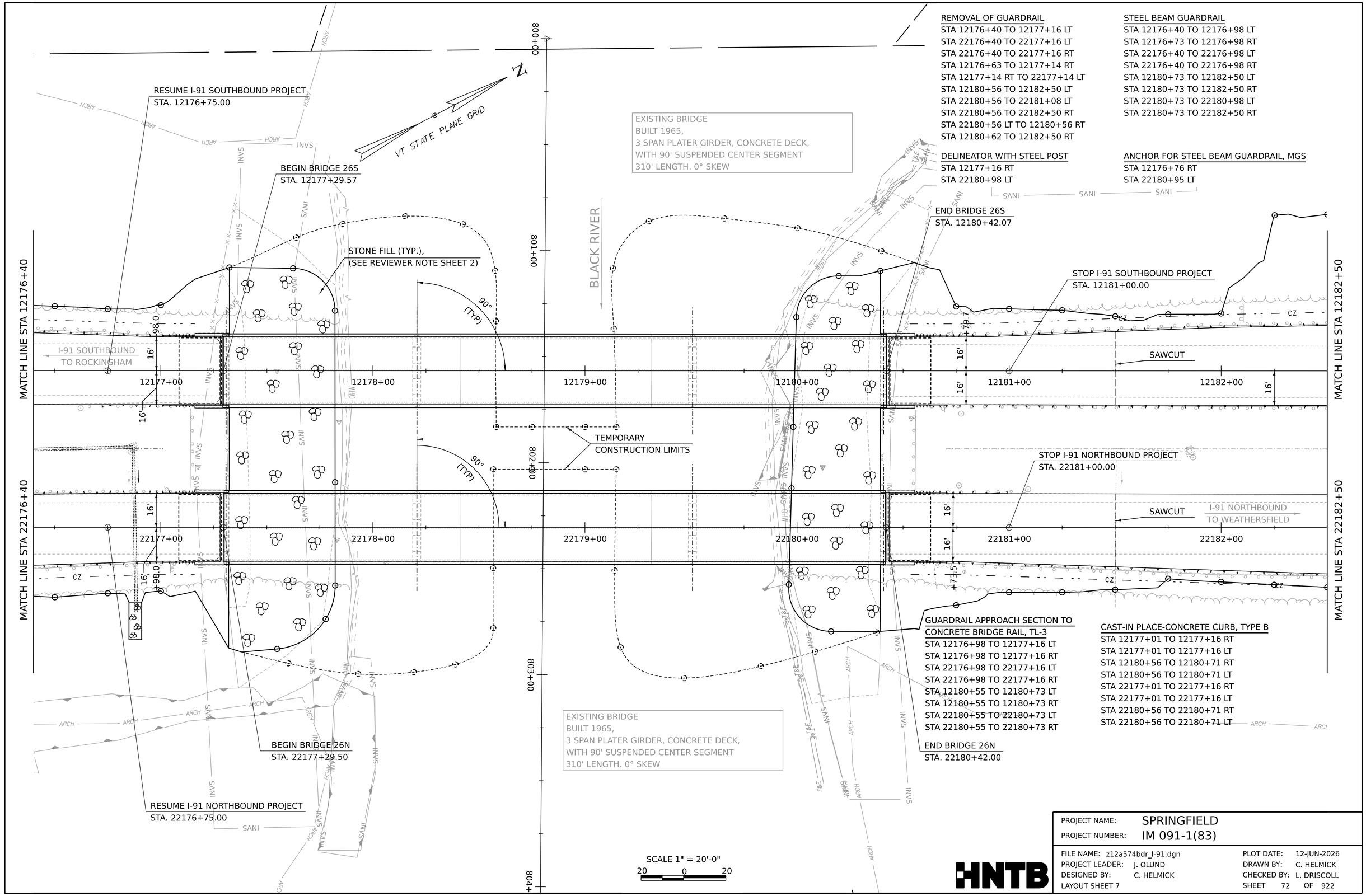
INVS

SANI

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 6	SHEET 71 OF 922



REMOVAL OF GUARDRAIL
STA 12176+40 TO 12177+16 LT
STA 22176+40 TO 22177+16 LT
STA 22176+40 TO 22177+16 RT
STA 12176+63 TO 12177+14 RT
STA 12177+14 RT TO 22177+14 LT
STA 12180+56 TO 12182+50 LT
STA 22180+56 TO 22181+08 LT
STA 22180+56 TO 22182+50 RT
STA 22180+56 LT TO 12180+56 RT
STA 12180+62 TO 12182+50 RT

STEEL BEAM GUARDRAIL
STA 12176+40 TO 12176+98 LT
STA 12176+73 TO 12176+98 RT
STA 22176+40 TO 22176+98 LT
STA 22176+40 TO 22176+98 RT
STA 12180+73 TO 12182+50 LT
STA 12180+73 TO 12182+50 RT
STA 22180+73 TO 22180+98 LT
STA 22180+73 TO 22182+50 RT

DELINEATOR WITH STEEL POST
STA 12177+16 RT
STA 22180+98 LT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 12176+76 RT
STA 22180+95 LT

GUARDRAIL APPROACH SECTION TO CONCRETE BRIDGE RAIL, TL-3
STA 12176+98 TO 12177+16 LT
STA 12176+98 TO 12177+16 RT
STA 22176+98 TO 22177+16 LT
STA 22176+98 TO 22177+16 RT
STA 12180+55 TO 12180+73 LT
STA 12180+55 TO 12180+73 RT
STA 22180+55 TO 22180+73 LT
STA 22180+55 TO 22180+73 RT

CAST-IN PLACE-CONCRETE CURB, TYPE B
STA 12177+01 TO 12177+16 RT
STA 12177+01 TO 12177+16 LT
STA 12180+56 TO 12180+71 RT
STA 12180+56 TO 12180+71 LT
STA 22177+01 TO 22177+16 RT
STA 22177+01 TO 22177+16 LT
STA 22180+56 TO 22180+71 RT
STA 22180+56 TO 22180+71 LT

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 7		SHEET 72 OF 922	

HNTB

EXISTING R.O.W.

REMOVAL OF GUARDRAIL
STA 12182+50 TO 12184+20 RT
STA 12182+50 TO 12188+60 LT
STA 22182+50 TO 22188+60 RT

STEEL BEAM GUARDRAIL
STA 12182+50 TO 12183+36 RT
STA 12182+50 TO 12188+60 LT
STA 22182+50 TO 22188+60 RT

MTS, MGS, FLARED, TL-3
STA 12184+36 TO 12184+73 RT

DELINEATOR WITH STEEL POST
STA 12184+73 RT

VT STATE PLANE GRID

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

CZ

SAWCUT

22'

34'

16'

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

R=15'(TYP)

30'

I-91 NORTHBOUND
TO WEATHERSFIELD

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 8		SHEET	73 OF 922

HNTB

EXISTING R.O.W.

STEEL BEAM GUARDRAIL
STA 200+00 TO 204+25 RT
STA 400+00 TO 400+75 LT
STA 12188+60 TO 12193+62 LT
STA 22188+60 TO 22190+25 RT

BITUMINOUS CONCRETE CURB, TYPE A
STA 400+00 TO 400+75 LT
STA 12188+82 TO 12193+62 LT

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

EXISTING BRIDGE
BUILT 1965,
1 SPAN ROLLED BEAM,
CONCRETE DECK
72' LENGTH. 20° SKEW

4"X4"CONC 0.5'AG PLUMB/STABLE/V

VT STATE PLANE GRID

MATCH LINE STA 12188+60

RESUME I-91 SOUTHBOUND PROJECT
STA. 12192+25.00

SAWCUT

I-91 SOUTHBOUND
TO ROCKINGHAM

STOP I-91 SOUTHBOUND PROJECT
STA. 12194+50.00

STA 400+85

STA 12194+50

MATCH LINE STA 22188+60

RESUME I-91 NORTHBOUND PROJECT
STA. 22192+75.00

I-91 NORTHBOUND
TO WEATHERSFIELD

STA 22194+50

STA 204+25

SAWCUT

B-12 AS-DRILLED
BORING

EXISTING BRIDGE
BUILT 1965,
1 SPAN ROLLED BEAM,
CONCRETE DECK
72' LENGTH. 20.5° SKEW

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL AND SEED
MATCH EXISTING GRADES

4"X4"CONC 0.3'AG PLUMB/STABLE/V

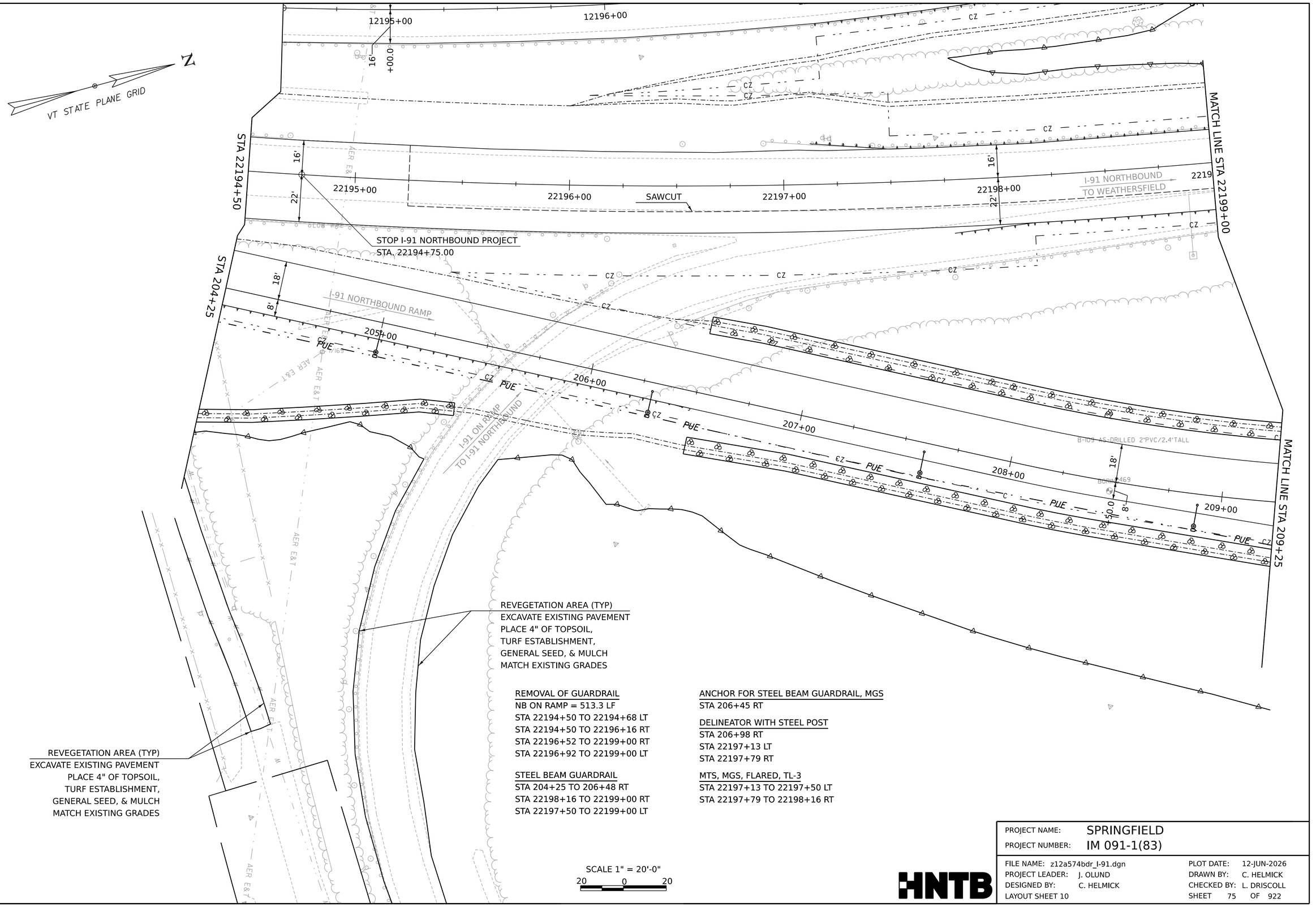
I69/2-52 6DROPS/1
DIRECTION

REMOVAL OF GUARDRAIL
STA 400+13 LT TO 400+75 RT
STA 12188+60 TO 12192+59 LT
STA 12192+41 TO 12192+90 RT
STA 12192+92 RT TO 22193+15 LT
STA 12193+90 RT TO 22194+14 LT
STA 12193+90 TO 12194+50 RT
STA 22188+60 TO 22193+31 RT
STA 22189+00 TO 22192+58 LT
STA 22194+30 TO 22194+50 RT
STA 22194+23 TO 22194+50 LT

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 9	SHEET 74 OF 922



REMOVAL OF GUARDRAIL
NB ON RAMP = 513.3 LF
STA 22194+50 TO 22194+68 LT
STA 22194+50 TO 22196+16 RT
STA 22196+52 TO 22199+00 RT
STA 22196+92 TO 22199+00 LT

STEEL BEAM GUARDRAIL
STA 204+25 TO 206+48 RT
STA 22198+16 TO 22199+00 RT
STA 22197+50 TO 22199+00 LT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 206+45 RT

DELINEATOR WITH STEEL POST
STA 206+98 RT
STA 22197+13 LT
STA 22197+79 RT

MTS, MGS, FLARED, TL-3
STA 22197+13 TO 22197+50 LT
STA 22197+79 TO 22198+16 RT

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 10	SHEET 75 OF 922

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 209+25

MATCH LINE STA 303+25

VT STATE PLANE GRID

N

WORKING LINE

10° (TYP)

SAWCUT

RESUME I-91 NORTHBOUND PROJECT
STA. 22200+00.00

BEGIN BRIDGE 28N
STA. 22200+59.13

END BRIDGE 28N
STA. 22202+40.86

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
198' LENGTH. 79° SKEW

I-91 NORTHBOUND
TO WEATHERSFIELD

I-91 NORTHBOUND RAMP

I-91 NORTHBOUND ON RAMP
TO WEATHERSFIELD

CHARLESTOWN RD (US ROUTE 5/VT 11)
TO SPRINGFIELD, V.C.

CHARLESTOWN RD (US ROUTE 5/VT 11)
TO CHARLESTOWN, NH

PUE

CZ

B-I02 AS-DRILLED
BORING 2464

B-I06 AS-DRILLED
BORING 2462

B-I07 AS-DRILLED
BORING 2461

B-I08 AS-DRILLED

B-I08A AS-DRILLED
BORING 2460

9+00
22200+00
22201+00
22202+00
22203+00
22204+00
210+00
211+00
300+00
301+00
302+00
303+00
134+00
135+00
136+00

16'
22'
17'
18'
8'
R=15'
R=35'
R=40'
R=60'
R = 353'
+58.0
+71.5
+75.3
73.6
37.0

REMOVAL OF GUARDRAIL
STA 22199+00 TO 22200+14 LT
STA 22199+00 TO 22200+13 RT
STA 22200+00 LT TO 12199+71 RT
STA 22202+86 TO 22203+10 LT
STA 22202+67 TO 22204+75 RT

SEE STAMPED CONCRETE
ISLAND, 8 INCH DETAIL

MTS, MGS, FLARED, TL-3
STA 300+97 TO 301+34 RT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 22203+50 LT

DELINEATOR WITH STEEL POST
STA 22203+50 LT

STEEL BEAM GUARDRAIL
STA 22199+00 TO 22200+37 LT
STA 22199+00 TO 22200+44 RT
STA 22202+57 TO 22203+50 LT
STA 22202+62 TO 22204+75 RT
STA 301+34 TO 303+25 RT

GUARDRAIL APPROACH SECTION TO
CONCRETE BRIDGE RAIL, TL-3
STA 22200+37 TO 22200+55 LT
STA 22200+44 TO 22200+63 RT
STA 22202+39 TO 22202+57 LT
STA 22202+43 TO 22202+62 RT

NOTE:
SEE LAYOUT SHEET 20 TO 24 FOR
CHARLESTOWN RD (US ROUTE 5/VT 11)
CONSTRUCTION NOTES

PLUNGE POOL
(SEE STORMWATER
DETAIL SHEET 2)

NOTE:
SEE LAYOUT SHEET 20 TO 24 FOR CHARLESTOWN RD
(US ROUTE 5/VT 11) CONSTRUCTION NOTES

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 11		SHEET	76 OF 922

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

VT STATE PLANE GRID

N

TEMPORARY CONSTRUCTION LIMITS (TYP.)

END I-91 NORTHBOUND PROJECT
STA. 22208+50.00

SAWCUT

I-91 NORTHBOUND ON RAMP
TO WEATHERSFIELD

I-91 NORTHBOUND
TO WEATHERSFIELD

I-91 OFF RAMP
TO CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)

EXISTING CULVERT
CONCRETE BOX CULVERT,
BUILT 1965,
235' BARREL LENGTH
30' AVERAGE COVER
121 SF AREA THROUGH CULVERT

CULVERT 28-1C

SPENCER BROOK

STONE FILL, TYPE II

E-STONE FILL

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 909+25.00

TOP OF BANK

BACK OF FLOODPLAIN

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

SCALE 1" = 20'-0"
20 0 20

BITUMINOUS CURB, TYPE A
STA 22209+25 TO 22210+50 LT

STONE FILL, TYPE II
STA 909+25 TO 914+50 LT
STA 914+00 TO 914+50 RT

STEEL BEAM GUARDRAIL
STA 22204+75 TO 22207+00 RT
STA 22206+84 TO 22210+50 LT
STA 303+25 TO 309+25 RT

MTS, MGS, FLARED, TL-3
STA 22206+47 TO 22206+84 LT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 22207+00 RT

DELINEATOR WITH STEEL POST
STA 22207+00 RT

REMOVAL OF GUARDRAIL
STA 22204+75 TO 22207+85 RT (EXIST NB OFF RAMP)
STA 22206+59 TO 22208+44 RT (EXIST NB OFF RAMP)
STA 22206+59 TO 22210+50 RT
STA 22208+84 TO 22210+50 LT

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
LAYOUT SHEET 12	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	L. DRISCOLL
SHEET	77 OF 922

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

WASTE AREA
LIMITS

908+00

907+06

I-91 OFF RAMP
TO CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574bdr_I-91.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 12A		SHEET	78 OF 922

VT STATE PLANE GRID

N

STONE FILL, TYPE II

BACK OF FLOODPLAIN

TOP OF BANK

END SPENCER BROOK STREAM RELOCATION STA. 919+00.00

TEMPORARY CONSTRUCTION LIMITS (TYP)

SPENCER BROOK

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

CULVERT 28-1N

SAWCUT

NORTHBOUND TO WEATHERSFIELD

STONE FILL, TYPE II

EXISTING CULVERT
CONCRETE BOX CULVERT,
BUILT 1965,
236' BARREL LENGTH
17' AVERAGE COVER
121 SF AREA THROUGH CULVERT

STONE FILL, TYPE II

REMOVAL OF GUARDRAIL
STA 22210+50 TO 22213+33 RT
STA 22210+50 TO 22216+50 LT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 22216+47 RT

DELINEATOR WITH STEEL POST
STA 22216+50 RT

STEEL BEAM GUARDRAIL
STA 309+25 TO 311+89 RT
STA 22213+18 TO 22216+50 RT

STONE FILL, TYPE II
STA 310+25 TO 311+50 RT
STA 914+50 TO 914+94 RT
STA 916+80 TO 917+50 LT

BITUMINOUS CONCRETE CURB, TYPE A
STA 22210+50 TO 22216+50 LT

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
LAYOUT SHEET	13
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	L. DRISCOLL
SHEET	79 OF 922

SPENCER BROOK

OHW

VT STATE PLANE GRID

N

MATCH LINE STA 22216+50

CZ

16'

12'

22'

10'

SAWCUT

22217+00

22218+00

22219+00

22220+00

22221+00

22222+00

MATCH EXISTING
GUARDRAIL

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

I-91 NORTHBOUND
TO WEATHERSFIELD

REMOVAL OF GUARDRAIL
STA 22216+50 TO 22222+00 LT

STEEL BEAM GUARDRAIL
STA 22216+50 TO 22222+00 LT

BITUMINOUS CONCRETE CURB, TYPE A
STA 22216+50 TO 22222+00 LT

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 14		SHEET	80 OF 922

VT STATE PLANE GRID

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

REMOVAL OF GUARDRAIL
STA 400+75 RT TO 402+72 LT
STA 12194+50 TO 12198+75 RT

STEEL BEAM GUARDRAIL
STA 400+75 TO 403+62 LT
STA 12196+97 TO 12198+75 RT
STA 12197+75 TO 12198+75 LT

BITUMINOUS CONCRETE CURB, TYPE A
STA 400+75 TO 401+35 LT

ANCHOR FOR STEEL BEAM GUARDRAIL, MGS
STA 12196+97 RT
STA 12197+75 LT

MTS, MGS, FLARED, TL-3
STA 403+62 TO 403+99 LT

DELINEATOR WITH STEEL POST
STA 403+99 LT

SCALE 1" = 20'-0"
20 0 20

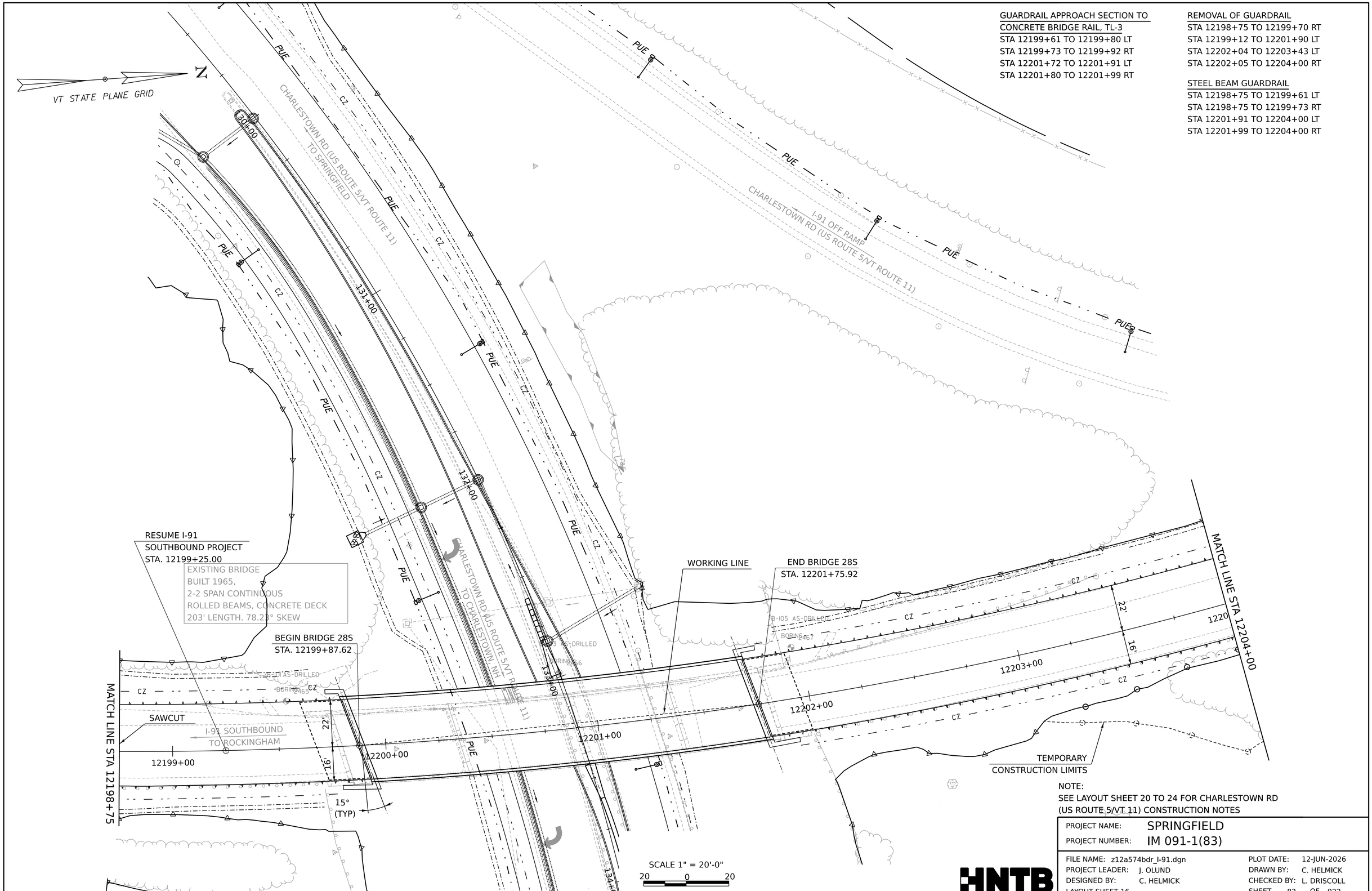
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 15	SHEET 81 OF 922

HNTB

GUARDRAIL APPROACH SECTION TO CONCRETE BRIDGE RAIL, TL-3
STA 12199+61 TO 12199+80 LT
STA 12199+73 TO 12199+92 RT
STA 12201+72 TO 12201+91 LT
STA 12201+80 TO 12201+99 RT

REMOVAL OF GUARDRAIL
STA 12198+75 TO 12199+70 RT
STA 12199+12 TO 12201+90 LT
STA 12202+04 TO 12203+43 LT
STA 12202+05 TO 12204+00 RT

STEEL BEAM GUARDRAIL
STA 12198+75 TO 12199+61 LT
STA 12198+75 TO 12199+73 RT
STA 12201+91 TO 12204+00 LT
STA 12201+99 TO 12204+00 RT



NOTE:
SEE LAYOUT SHEET 20 TO 24 FOR CHARLESTOWN RD (US ROUTE 5/VT 11) CONSTRUCTION NOTES

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 16		SHEET	82 OF 922

HNTB

REMOVAL OF GUARDRAIL
STA 12204+00 TO 12209+50 RT

STEEL BEAM GUARDRAIL
STA 12204+00 TO 12204+21 LT
STA 12204+00 TO 12209+50 RT

BITUMINOUS CONCRETE CURB, TYPE A
STA 12207+35 TO 12209+50 RT

MTS, MGS, FLARED, TL-3
STA 12204+21 TO 12204+59.0 LT

DELINEATOR WITH STEEL POST
STA 12204+59 LT

VT STATE PLANE GRID

N

END I-91 SOUTHBOUND PROJECT
STA. 12204+50.00

I-91 OFF RAMP

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 SOUTHBOUND
TO ROCKINGHAM

SAWCUT

TEMPORARY CONSTRUCTION
LIMITS (TYP)

SPECIAL DITCH 1
(SEE SPECIAL DITCH
DETAIL SHEET)

MATCH LINE STA 12204+00

MATCH LINE STA 12209+50

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 17	SHEET 83 OF 922

HNTB

REMOVAL OF GUARDRAIL
STA 12209+50 TO 12215+30 RT

STEEL BEAM GUARDRAIL
STA 12209+50 TO 12215+30 RT

BITUMINOUS CONCRETE CURB, TYPE A
STA 12209+50 TO 12215+30 RT

VT STATE PLANE GRID
N

MATCH LINE STA 12209+50

I-91 SOUTHBOUND
TO ROCKINGHAM

PUE

CZ

22'
+79.7
16'

12210+00
12211+00
12212+00
12213+00
12214+00
12215+00

MATCH LINE STA 12215+30

STONE FILL,
TYPE II

BACK OF
FLOODPLAIN

TOP OF
BANK

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

TEMPORARY CONSTRUCTION
LIMITS (TYP)

SPENCER BROOK

919+00

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 18	SHEET 84 OF 922

REMOVAL OF GUARDRAIL
STA 12215+30 TO 12217+00 RT

STEEL BEAM GUARDRAIL
STA 12215+30 TO 12217+00 RT

BITUMINOUS CONCRETE CURB, TYPE A
STA 12215+30 TO 12217+00 RT

VT STATE PLANE GRID
N

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12215+30

CZ

I-91 SOUTHBOUND
TO ROCKINGHAM

22'

16'

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

MATCH EXISTING
GUARDRAIL

SPENCER BROOK

OHW

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 19		SHEET	85 OF 922

DETECTABLE WARNING SURFACE
STA 120+12 RT
STA 120+13 LT
STA 1999+77 RT
STA 2000+37 RT

BOLLARD
STA 1999+35 RT
STA 2001+60 RT

REMOVAL OF EXISTING CURB
STA 119+85 TO 120+20 RT

REMOVING AND RESETTING CURB
STA 119+91 TO 120+39 LT (97 LF ALONG HOTEL DRIVEWAY)
STA 120+18 RT TO 121+50 LT & RT

REMOVAL OF EXISTING FENCE
STA 120+20 TO 121+07 RT

CHAIN-LINK FENCE, 6 FOOT
STA 120+20 TO 121+50 RT

REMOVAL OF GUARDRAIL
STA 121+06 TO 121+50 RT

VERTICAL GRANITE CURB
STA 1118+06 RT TO 121+50 RT

BITUMINOUS CONCRETE SIDEWALK
STA 1998+75 TO 1999+81 RT
STA 2000+35 TO 2002+66 RT
STA 1118+14 TO 1118+59 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA 119+91 TO 120+16 LT (ALONG HOTEL DRIVEWAY)
STA 1118+19 TO 1118+45 LT

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

N
VT STATE PLANE GRID

5' LEVEL
LANDING

SIDEWALK RAMP
TYPE VI (STD C3-B)

SAWCUT

MATCH LINE STA 121+50

CHARLESTOWN RD (VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

STA 1998+75.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

STEEL BOLLARD
(STD A-80)(TYP.)

CONNECT TO
EXISTING FENCE

SIDEWALK RAMP
TYPE II (STD C3-A)

REMOVE EXISTING
BOLLARDS

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

MISSING LINK RD (US ROUTE 5)
TO ROCKINGHAM

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
LAYOUT SHEET 20	SHEET 86 OF 922

HNTB

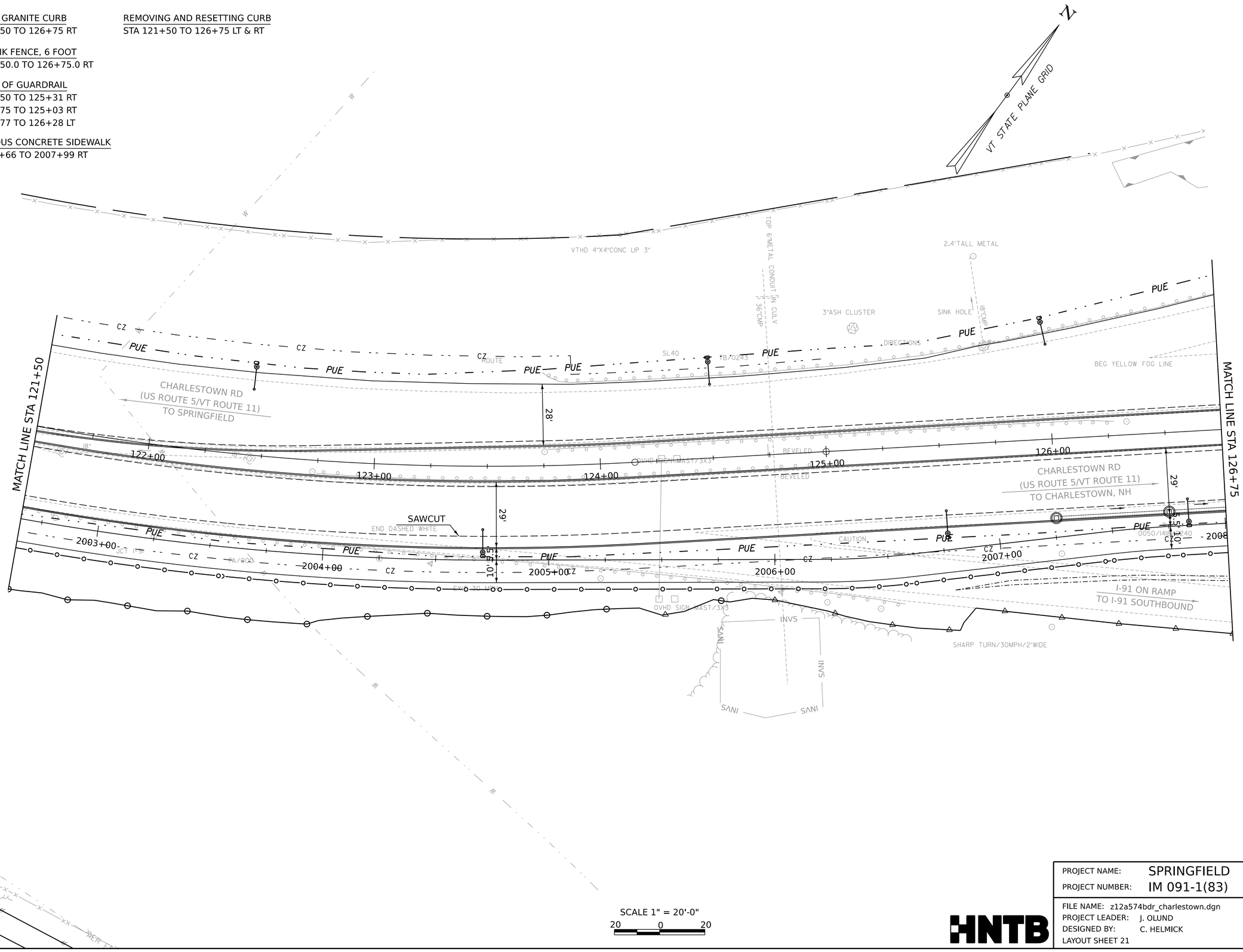
VERTICAL GRANITE CURB
STA 121+50 TO 126+75 RT

CHAIN-LINK FENCE, 6 FOOT
STA 121+50.0 TO 126+75.0 RT

REMOVAL OF GUARDRAIL
STA 121+50 TO 125+31 RT
STA 122+75 TO 125+03 RT
STA 123+77 TO 126+28 LT

BITUMINOUS CONCRETE SIDEWALK
STA 2002+66 TO 2007+99 RT

REMOVING AND RESETTING CURB
STA 121+50 TO 126+75 LT & RT



SCALE 1" = 20'-0"
20 0 20

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FILE NAME: z12a574bdr_charlestown.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 21		SHEET	87 OF 922

HNTB

VERTICAL GRANITE CURB
STA 126+75 RT TO 405+48 LT
STA 405+49 TO 132+25 RT

VERTICAL GRANITE CURB, MOUNTABLE
STA 128+75 RT TO 405+49 LT
STA 405+11 TO 405+38 LT

STAMPED CONCRETE ISLAND, 8 INCH
STA 128+71 RT TO 405+11 LT

REMOVAL OF EXISTING CURB
STA 129+08 TO 129+29 LT & RT
STA 129+82 TO 129+93 RT

REMOVING AND RESETTING CURB
STA 126+75 TO 129+08 LT & RT
STA 129+93 RT TO 132+25 LT & RT

CHAIN-LINK FENCE, 6 FOOT
STA 126+75 TO 128+49 RT

BITUMINOUS CONCRETE SIDEWALK
STA 2007+99 TO 2010+33 RT
STA 2010+66 TO 2013+48 RT

BOLLARD
STA 2009+75 RT
STA 2011+25 RT

DETECTABLE WARNING SURFACE
STA 2010+30 RT
STA 2010+66 RT

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) PROJECT
STA. 129+00.00

MATCH LINE STA 126+75

MATCH LINE STA 132+25

I-91 OFF RAMP
TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

I-91 ON RAMP
TO I-91 SOUTHBOUND

TO I-91 SOUTHBOUND

SAWCUT

SAWCUT

STAMPED CONCRETE
ISLAND, 8 INCH DETAIL
(SEE DETAIL SHEET 1)

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

SEE LAYOUT SHEETS 1 TO 19 FOR
I-91 NB, I-91 SB, & I-91 CONSTRUCTION NOTES

SCALE 1" = 20'-0"
20 0 20

VT STATE PLANE GRID

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PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 22		SHEET	88 OF 922

HNTB

REMOVAL OF GUARDRAIL
STA 132+36 TO 135+15 RT
STA 133+02 TO 136+26 LT
STA 133+20 TO 135+68 LT

DETECTABLE WARNING SURFACE
STA 2017+33 RT
STA 2018+07 RT

VERTICAL GRANITE CURB, MOUNTABLE
STA 136+86 TO 137+28 RT
STA 211+37 TO 211+62 RT

BOLLARD
STA 2017+00 RT
STA 2018+40 RT

STAMPED CONCRETE ISLAND, 8 INCH
STA 211+37 RT TO 137+28 RT

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
203' LENGTH. 78.23° SKEW

BITUMINOUS CONCRETE SIDEWALK
STA 2013+48 TO 2017+34 RT
STA 2017+81 TO 2018+54 RT

REMOVAL OF EXISTING CURB
STA 135+78 TO 136+00 LT & RT
STA 137+09 TO 137+50 RT

PRECAST CONCRETE BARRIER
STA 133+61 TO 134+28 LT

PRECAST CONCRETE BARRIER TRANSITION
STA 132+82 TO 133+00 LT
STA 133+44 TO 133+61 LT
STA 134+28 TO 134+45 LT
STA 134+93 TO 135+11 LT

ENERGY ABSORPTION ATTENUATOR, PERMANENT, TL-3
STA 132+82 LT
STA 135+11 LT

VERTICAL GRANITE CURB
STA 132+25 TO 136+21 RT
STA 137+13 TO 137+50 RT

REMOVING AND RESETTING CURB
STA 132+25 TO 135+78 LT & RT

GRANITE SLOPE EDGING
STA 136+57 TO 137+50 LT & RT

STONE FILL, TYPE I (TYP)

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
203' LENGTH. 78.23° SKEW

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
198' LENGTH. 79.11° SKEW

SEE STAMPED CONCRETE ISLAND, 8 INCH DETAIL (SEE DETAIL SHEET 2)

END CHARLESTOWN RD (US ROUTE 5 /VT ROUTE 11) PROJECT
STA. 137+00.00

MATCH LINE STA 132+25

MATCH LINE STA 137+50

FOR I-91 NB, I-91 SB, & I-91 RAMP CONSTRUCTION NOTES SEE LAYOUT SHEETS 1 TO 19, BRIDGE 28 N&S SUPERSTRUCTURES NOT SHOWN FOR CLARITY.

SCALE 1" = 20'-0"
20 0 20

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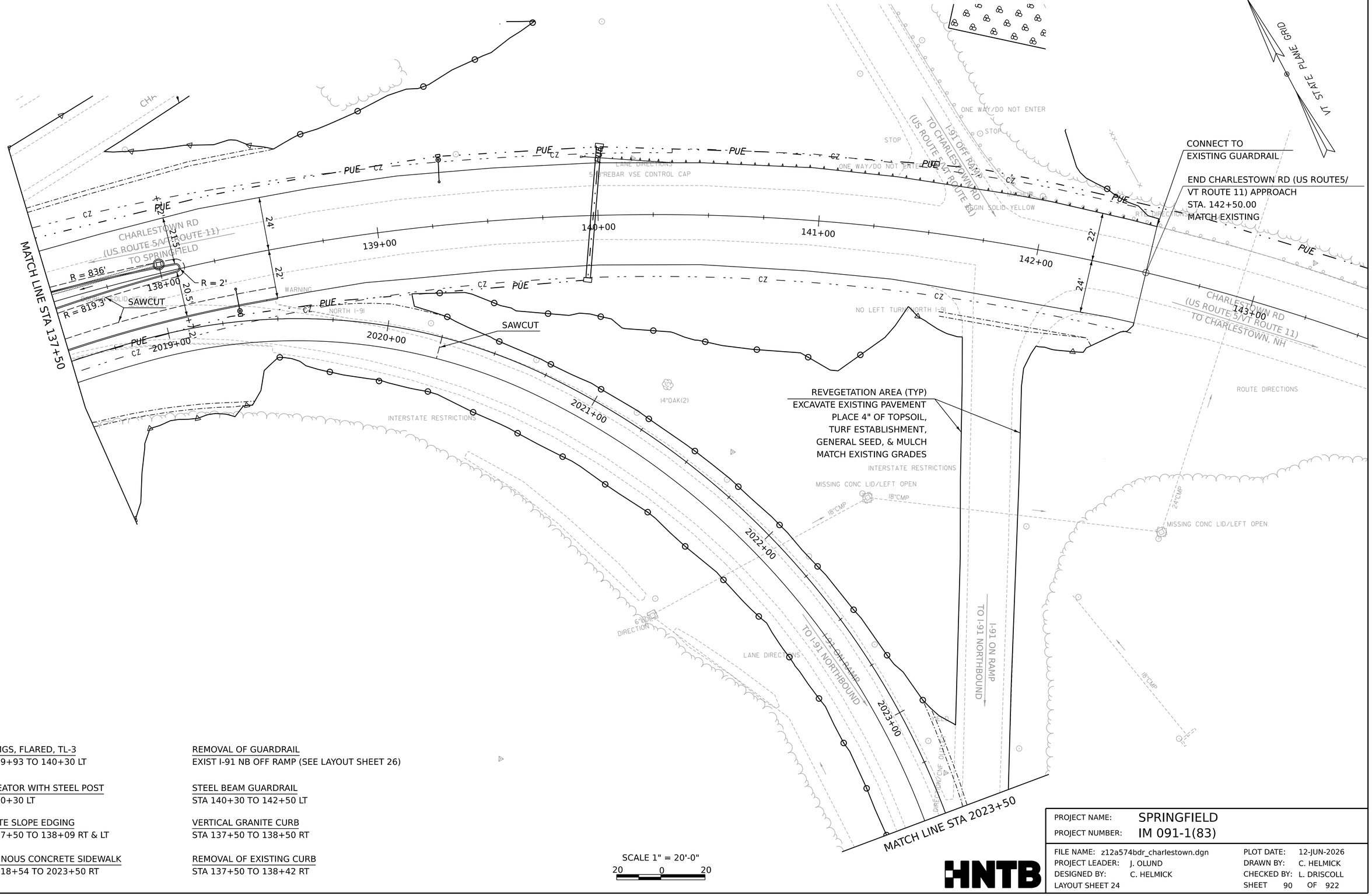
FILE NAME: z12a574bdr_charlestown.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
LAYOUT SHEET 23

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 89 OF 922

HNTB



MTS, MGS, FLARED, TL-3
STA 139+93 TO 140+30 LT

DELINEATOR WITH STEEL POST
STA 140+30 LT

GRANITE SLOPE EDGING
STA 137+50 TO 138+09 RT & LT

BITUMINOUS CONCRETE SIDEWALK
STA 2018+54 TO 2023+50 RT

REMOVAL OF GUARDRAIL
EXIST I-91 NB OFF RAMP (SEE LAYOUT SHEET 26)

STEEL BEAM GUARDRAIL
STA 140+30 TO 142+50 LT

VERTICAL GRANITE CURB
STA 137+50 TO 138+50 RT

REMOVAL OF EXISTING CURB
STA 137+50 TO 138+42 RT

SCALE 1" = 20'-0"
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HNTB

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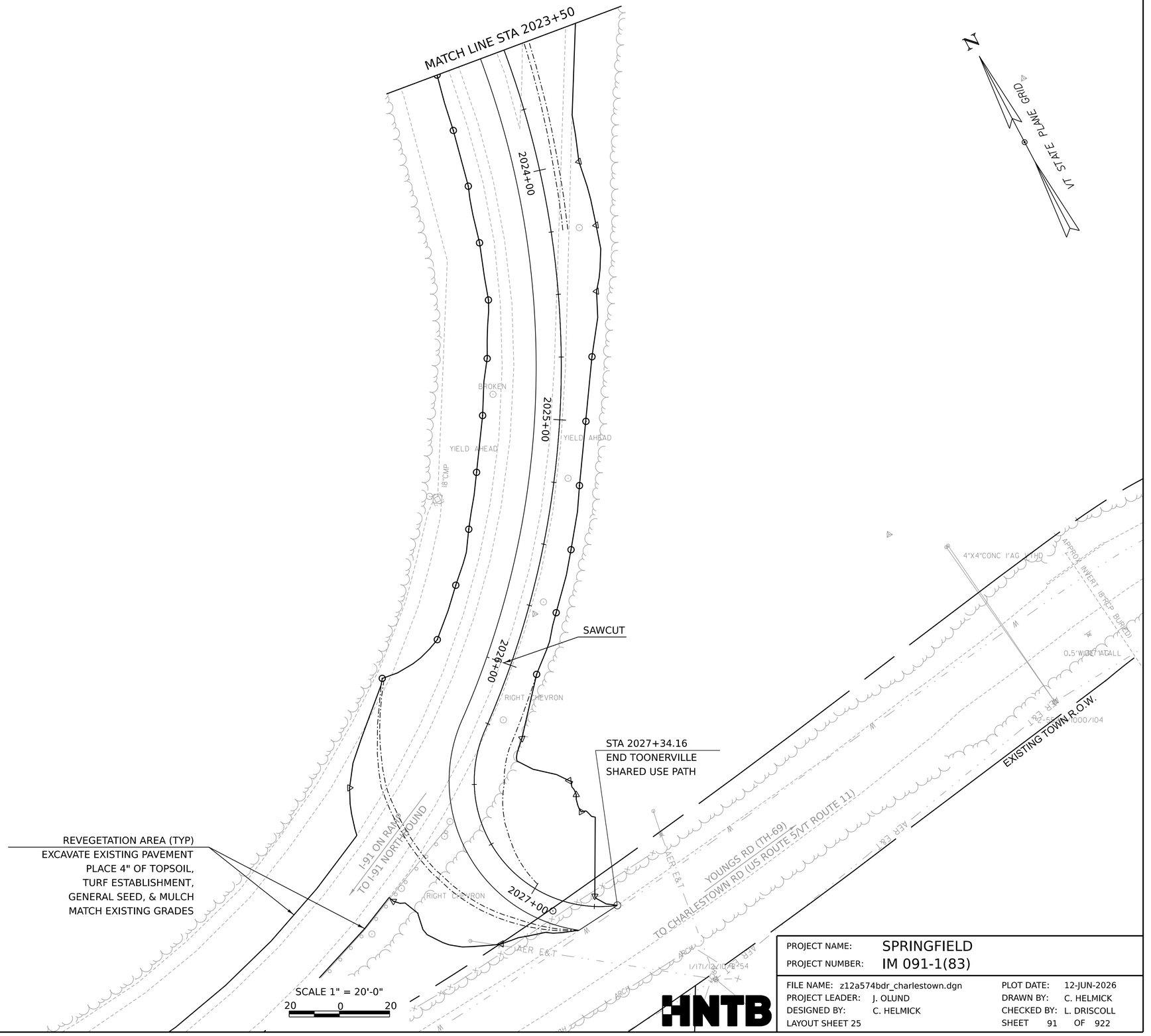
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 24		SHEET	90 OF 922

REMOVAL OF GUARDRAIL
EXIST I-91 NB OFF RAMP (SEE LAYOUT SHEET 10)

BOLLARD
STA 2027+10 RT

BITUMINOUS CONCRETE SIDEWALK
STA 2023+50 TO 2027+34 RT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
LAYOUT SHEET 25		SHEET	91 OF 922

HNTB

REMOVAL OF GUARDRAIL
EXIST I-91 NB OFF SLIP RAMP = 440 LF
EXIST I-91 NB OFF RAMP = 306 LF

STONE FILL, TYPE II
STA 901+00 TO 901+75 LT
STA 901+50 TO 902+25 RT

REMOVAL OF EXISTING FENCE
EXIST I-91 NB OFF RAMP = 253 LF

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

EXISTING CULVERT
CONCRETE BOX CULVERT,
BUILT 1965,
430' BARREL LENGTH
30' AVERAGE COVER
121 SF AREA THROUGH CULVERT

STONE FILL,
TYPE II (TYP)

CULVERT 28-1G

BACK OF
FLOODPLAIN

TOP OF
BANK

E-STONE
(TYP.)

END SPENCER BROOK
STREAM RELOCATION
STA. 905+50.00

REVEGETATION AREA (TYP)
EXCAVATE EXISTING PAVEMENT
PLACE 4" OF TOPSOIL,
TURF ESTABLISHMENT,
GENERAL SEED, & MULCH
MATCH EXISTING GRADES

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 900+75.00

SCALE 1" = 20'-0"
20 0 20

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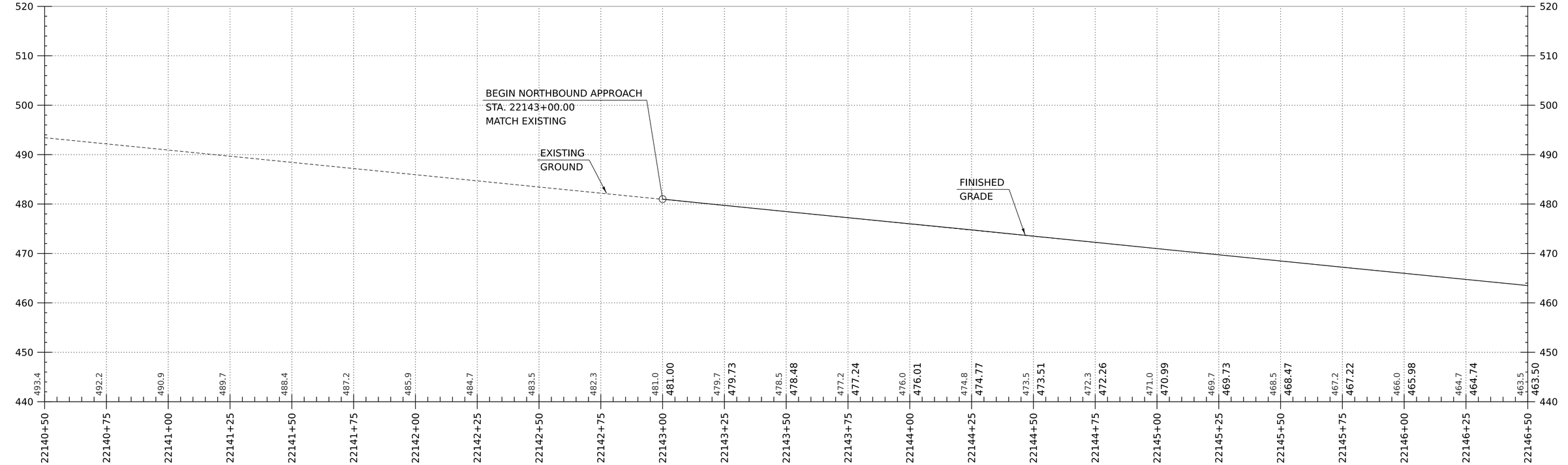
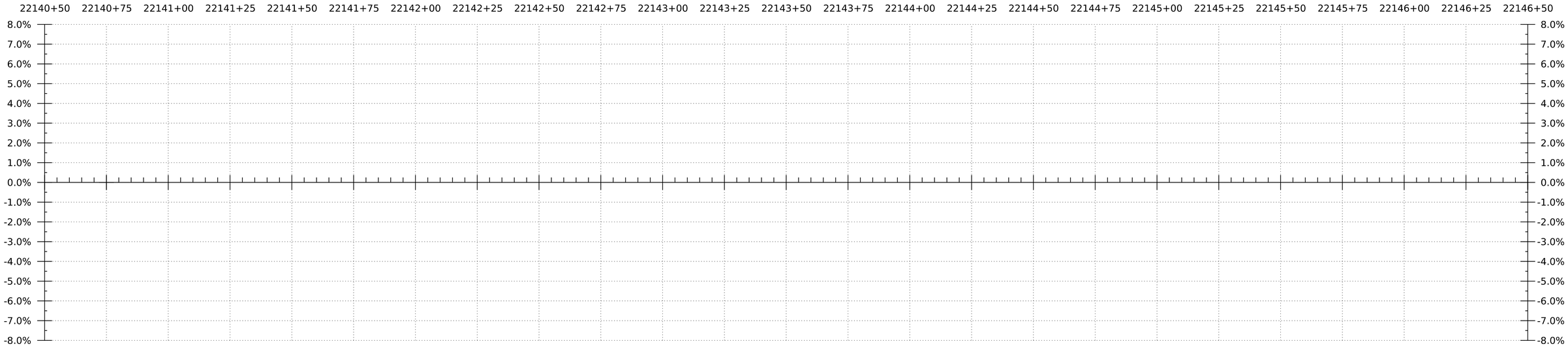
FILE NAME:	z12a574bdr_charlestown.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
LAYOUT SHEET	26
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	L. DRISCOLL
SHEET	92 OF 922

HNTB



I-91 NB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

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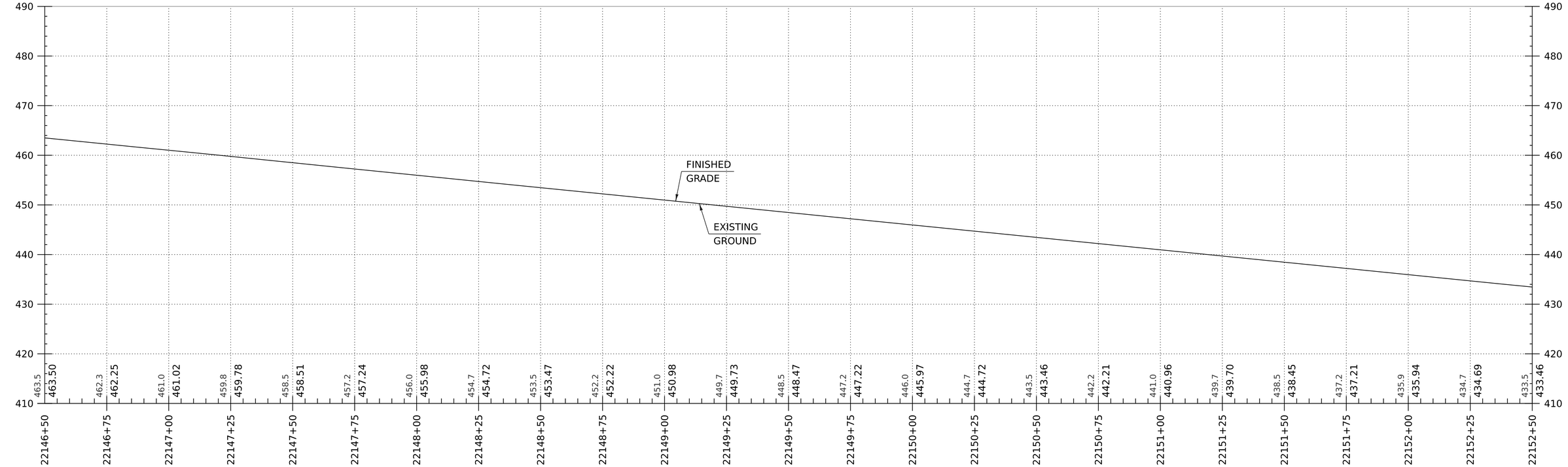
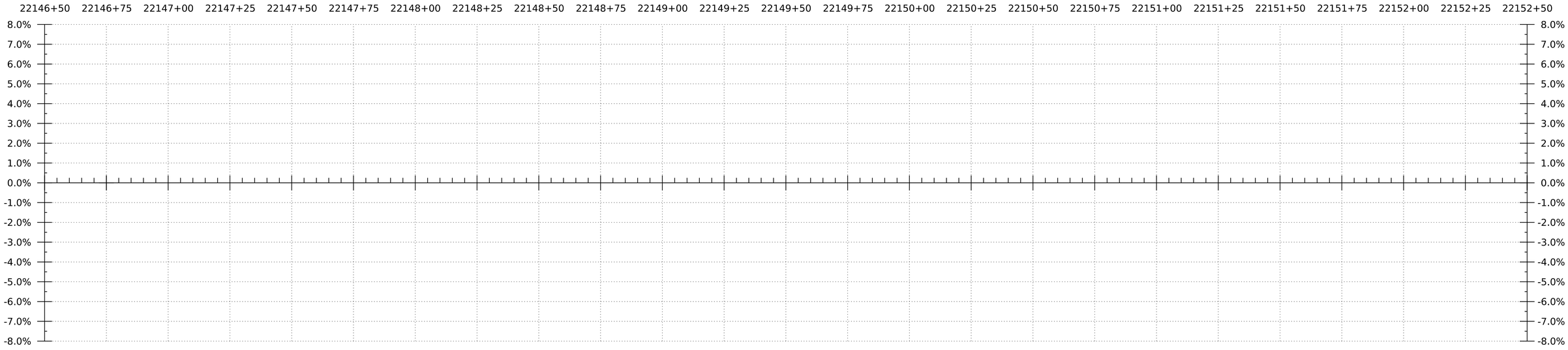
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 1	SHEET 93 OF 922



I-91 NB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

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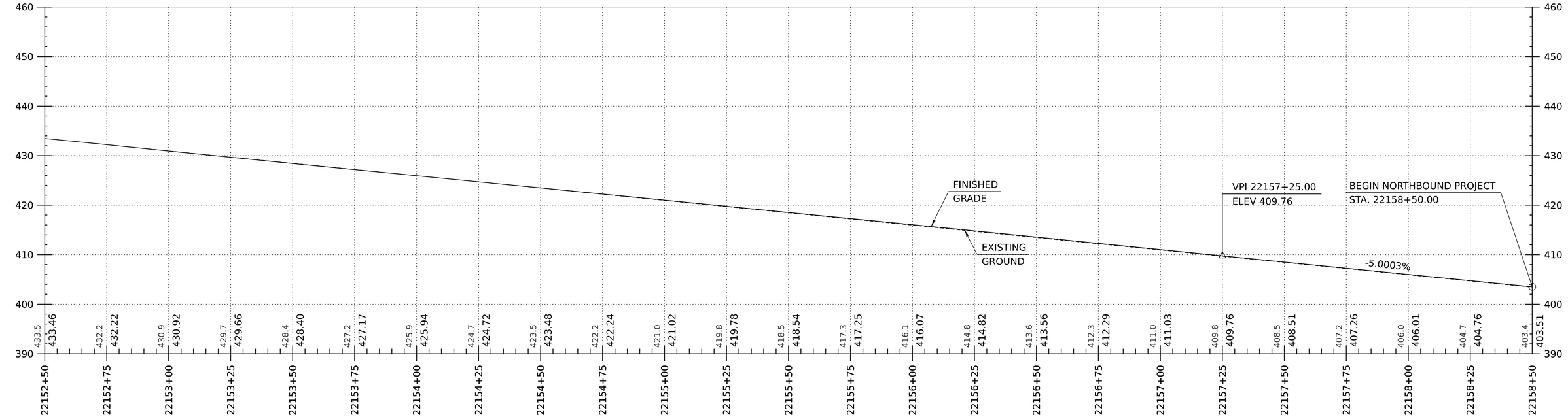
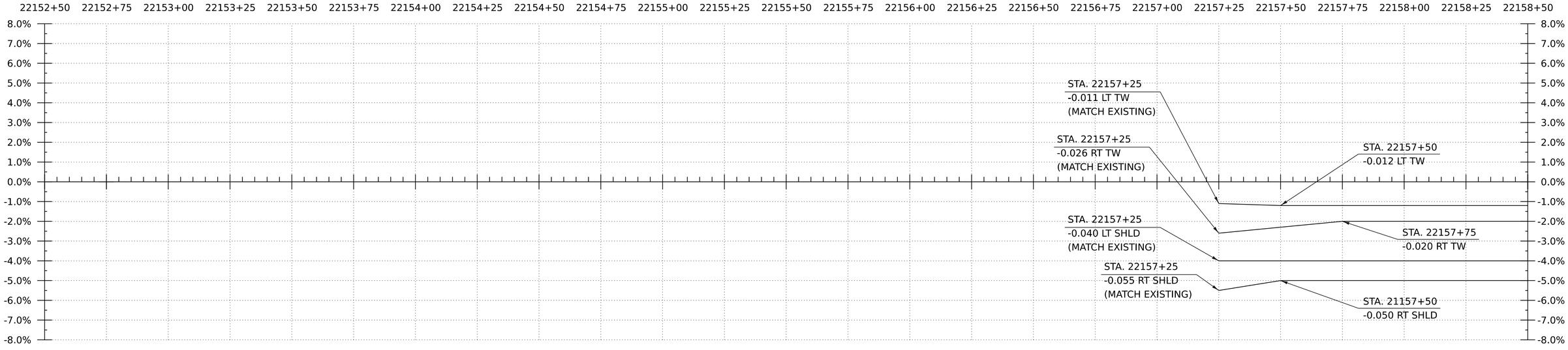
I-91 NB PROFILE SHEET 2	SHEET 94 OF 922



I-91 NB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

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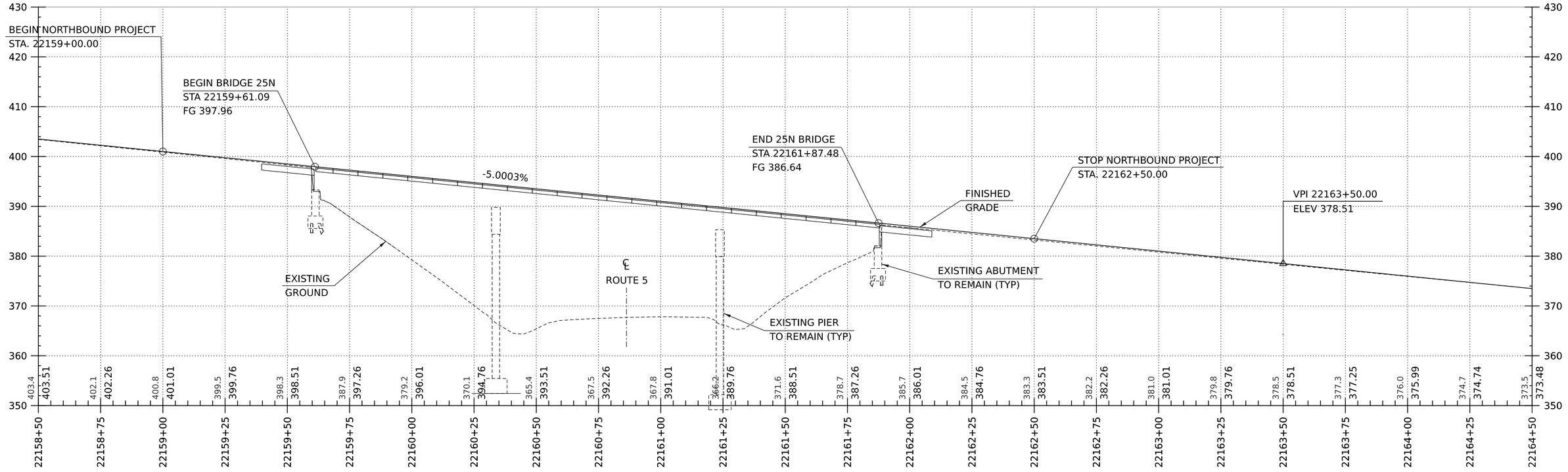
I-91 NB PROFILE SHEET 3	SHEET 95 OF 922



I-91 NB PROFILE

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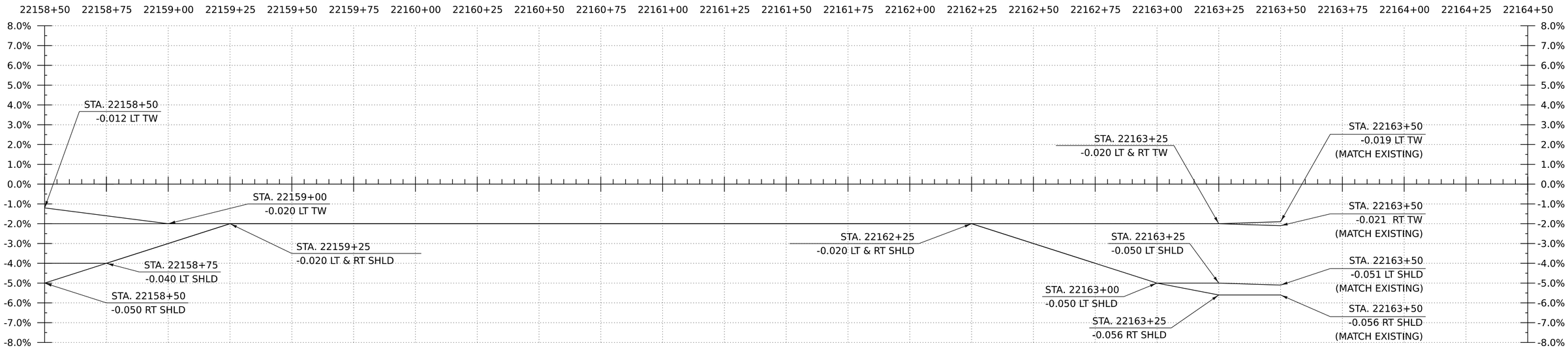

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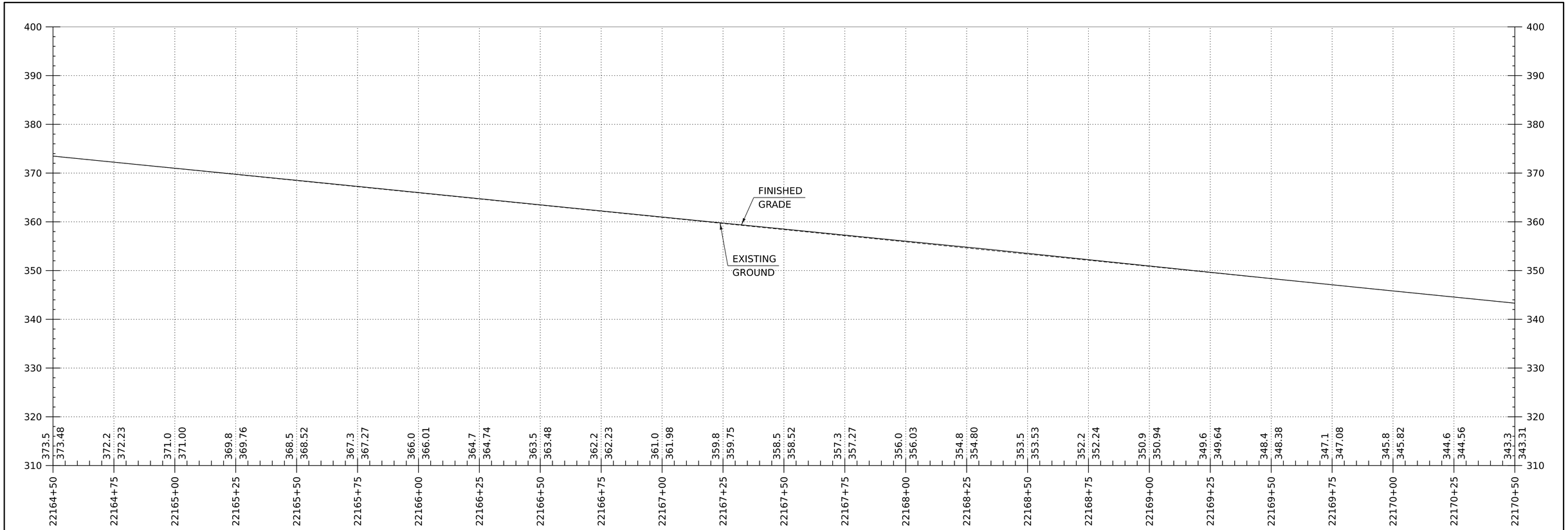
I-91 NB PROFILE SHEET 4		SHEET 96 OF 922	



I-91 NB PROFILE

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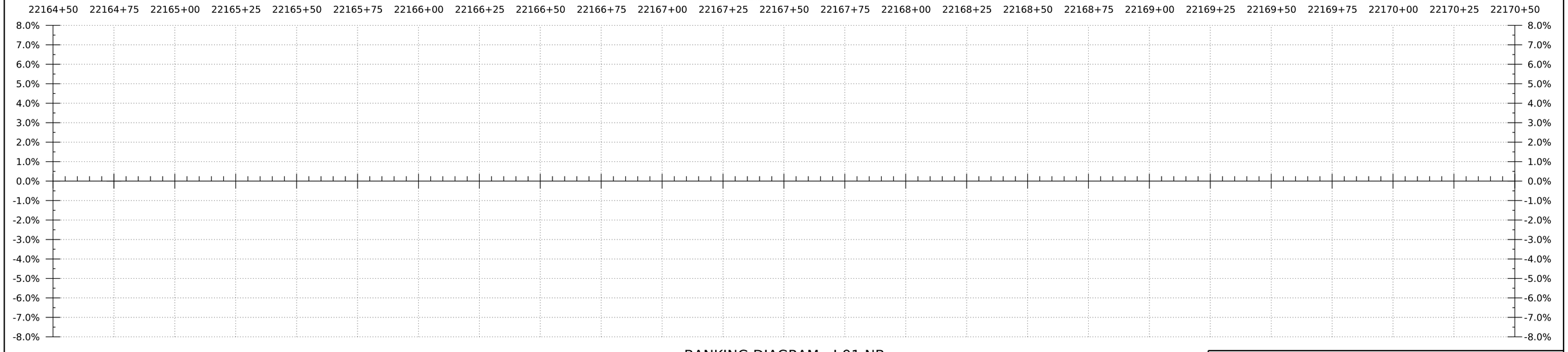
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

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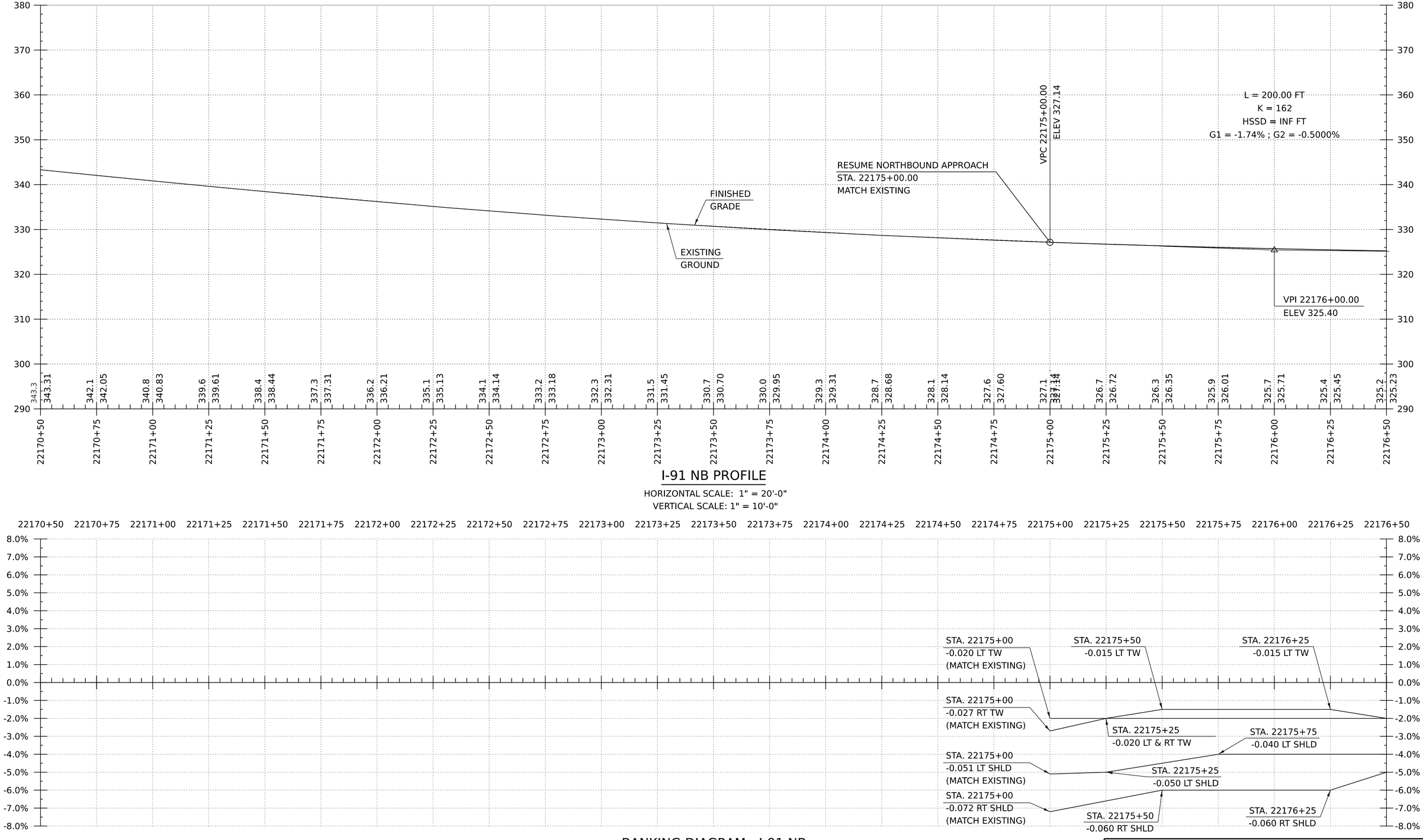
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB PROFILE SHEET 5		SHEET	97 OF 922



I-91 NB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

BANKING DIAGRAM - I-91 NB

HORIZ:1"=20'
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HNTB

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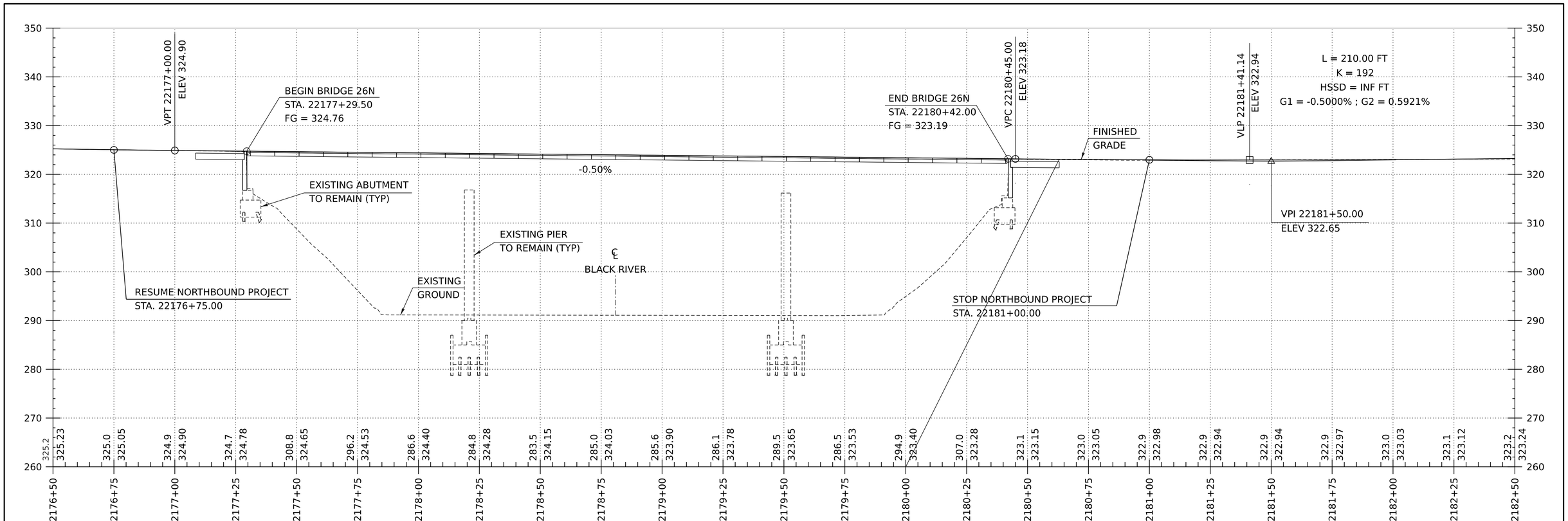
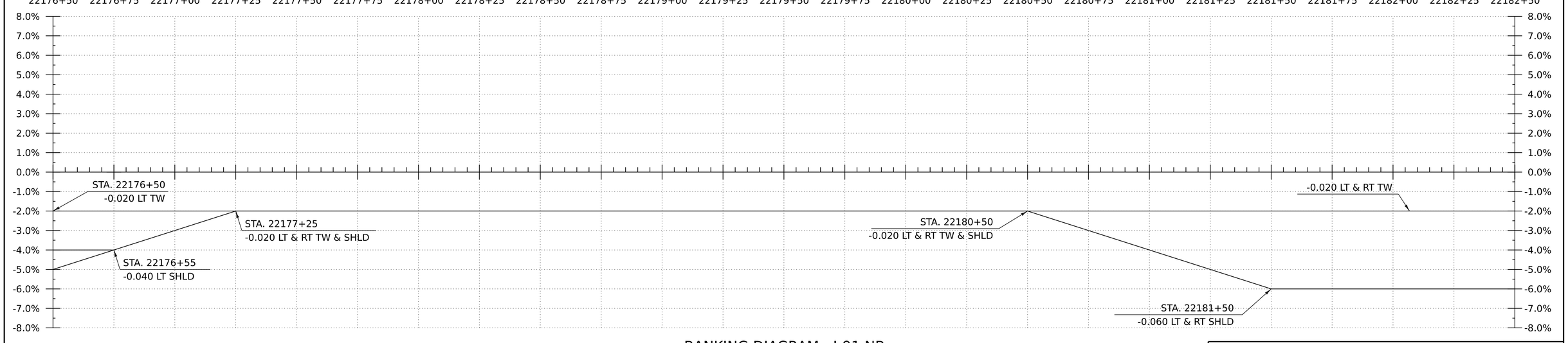
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 6	SHEET 98 OF 922



I-91 NB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

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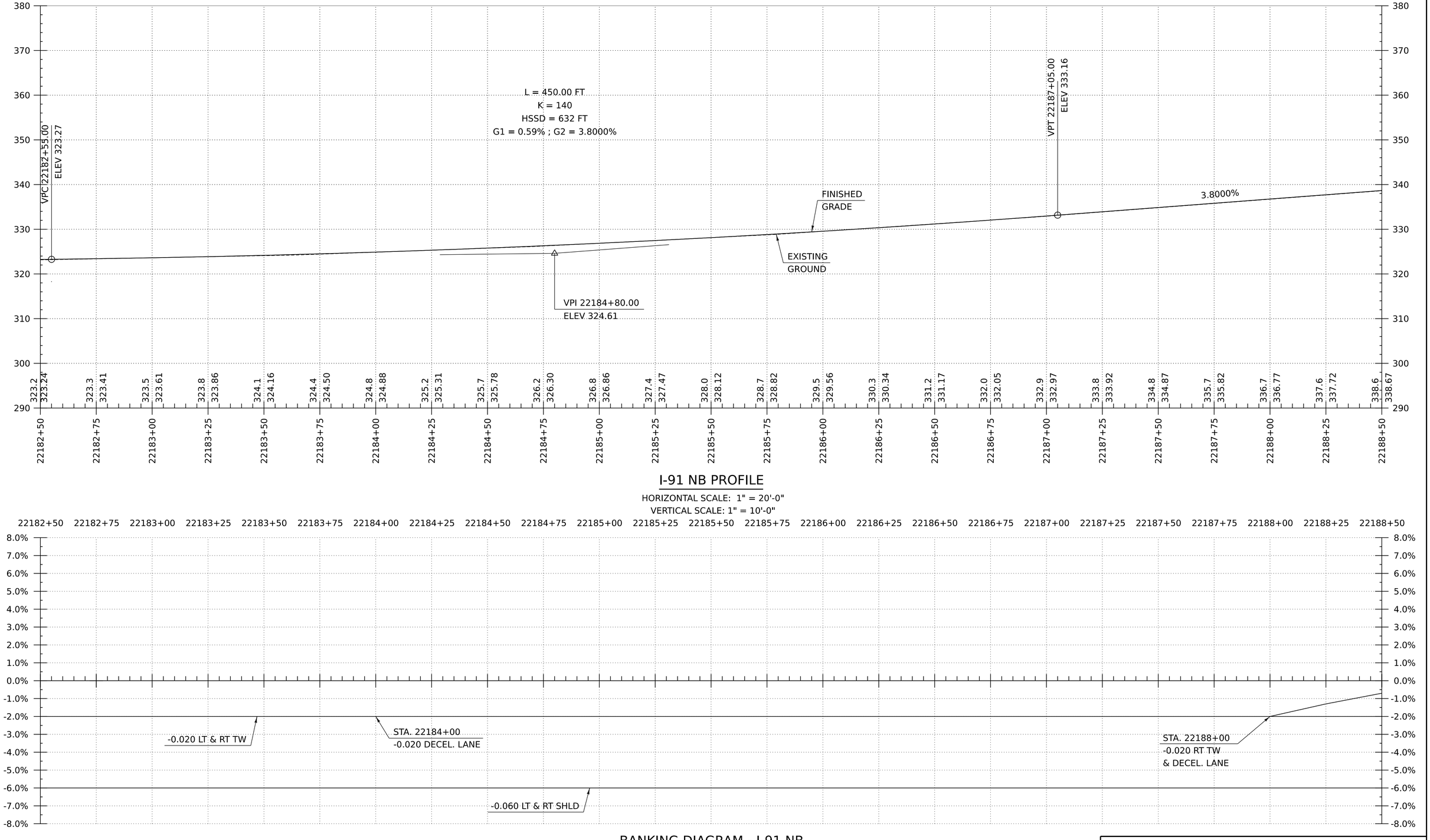
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB PROFILE SHEET 7		SHEET	99 OF 922



I-91 NB PROFILE

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VERTICAL SCALE: 1" = 10'-0"

BANKING DIAGRAM - I-91 NB

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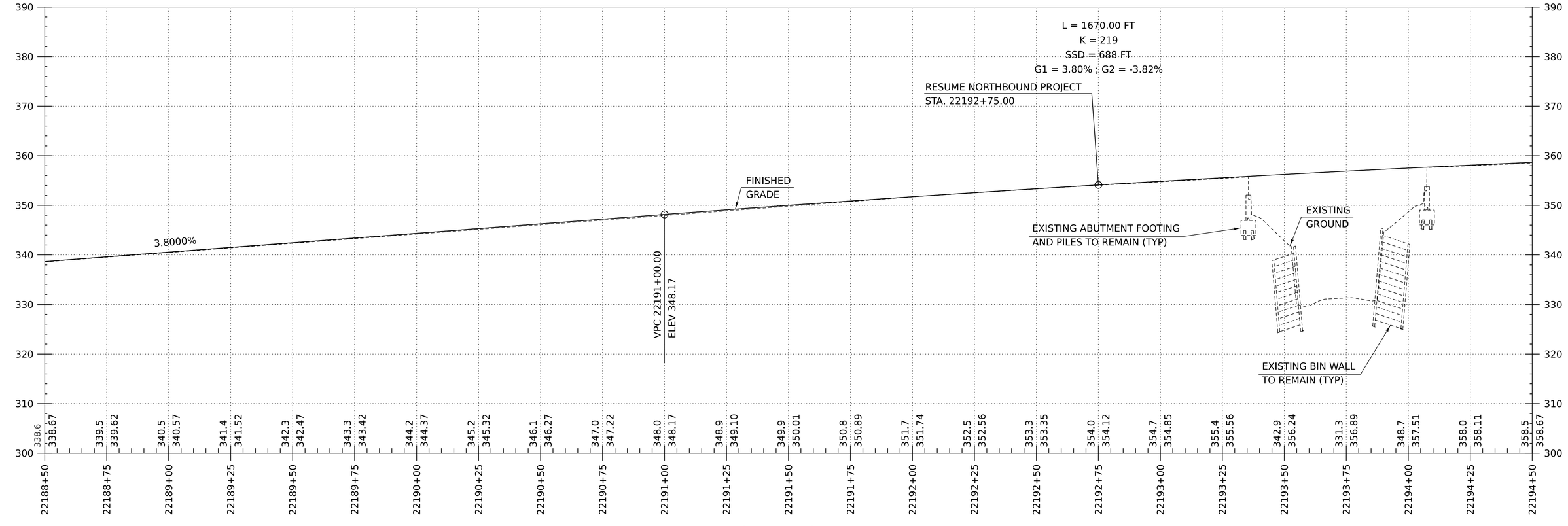
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 8	SHEET 100 OF 922



I-91 NB PROFILE

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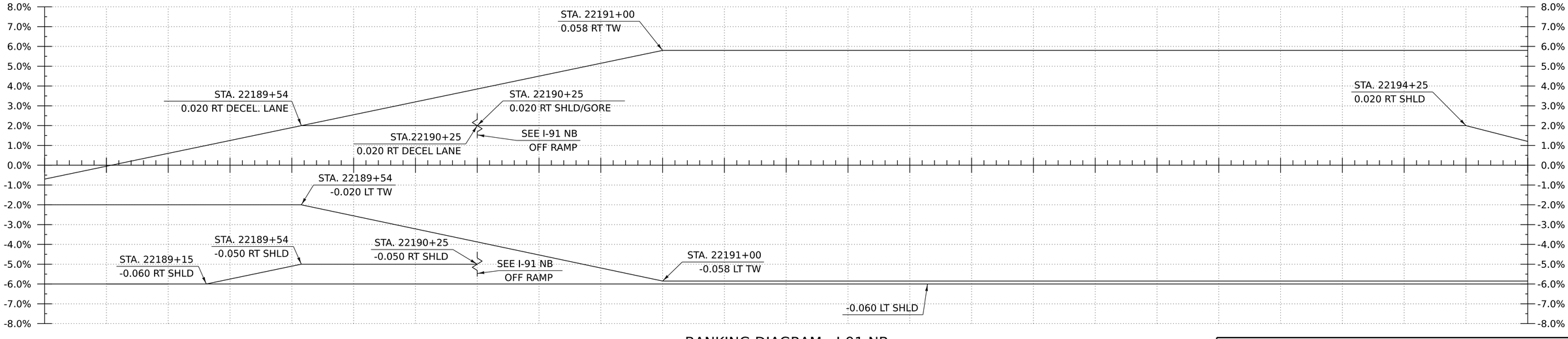
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

HORIZ:1"=20'
NO VERTICAL SCALE

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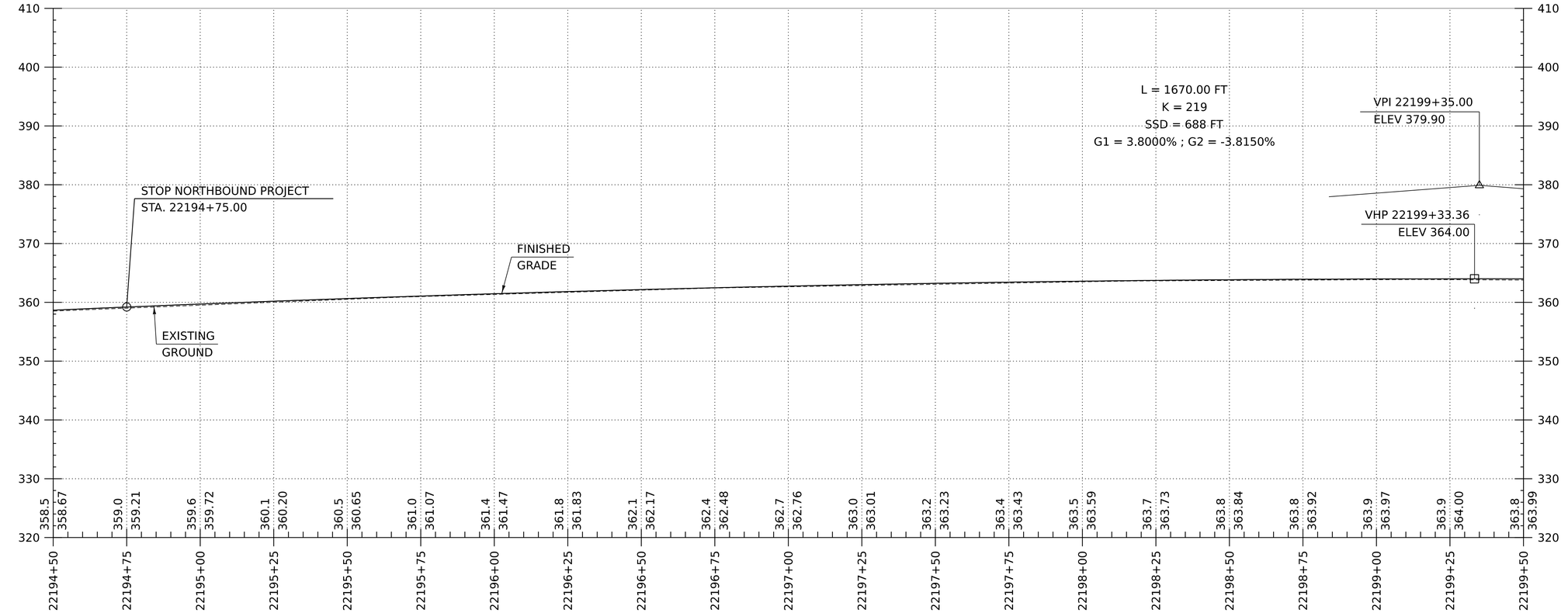
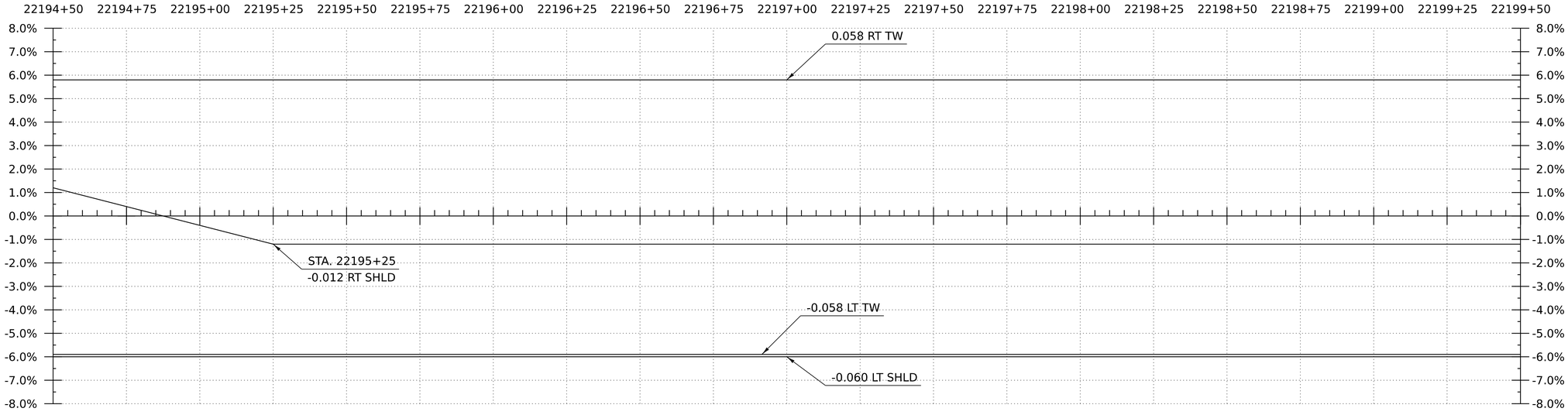
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB PROFILE SHEET 9	SHEET 101 OF 922



I-91 NB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

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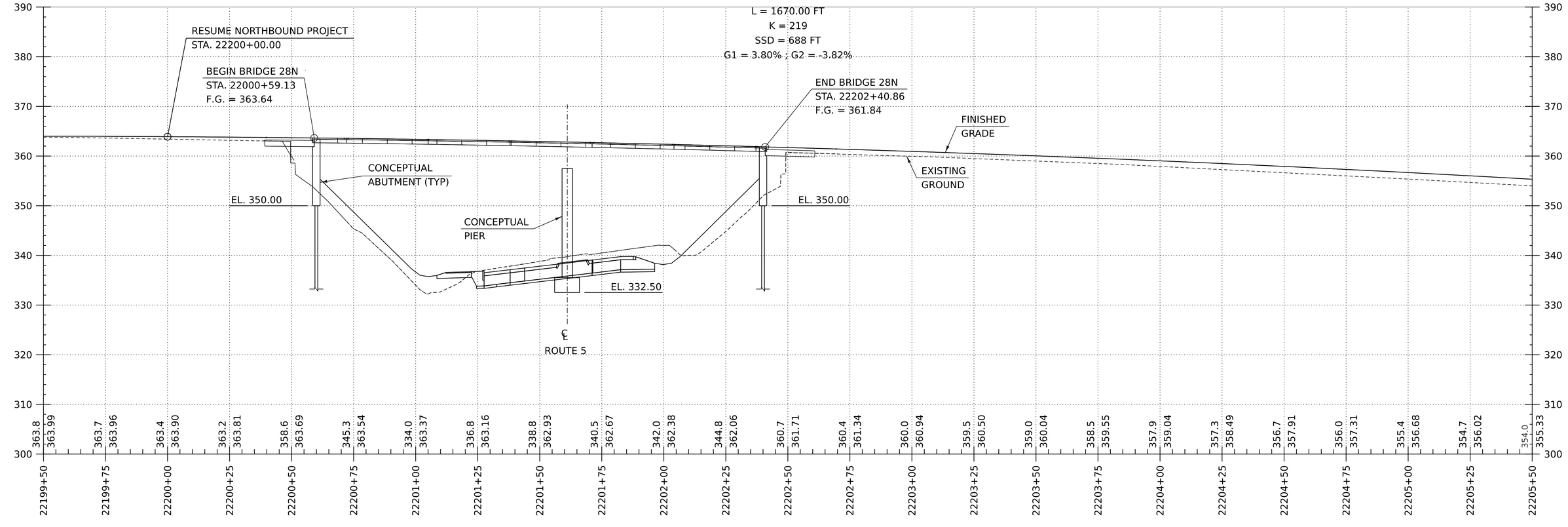
I-91 NB PROFILE SHEET 10	SHEET 102 OF 922



I-91 NB PROFILE

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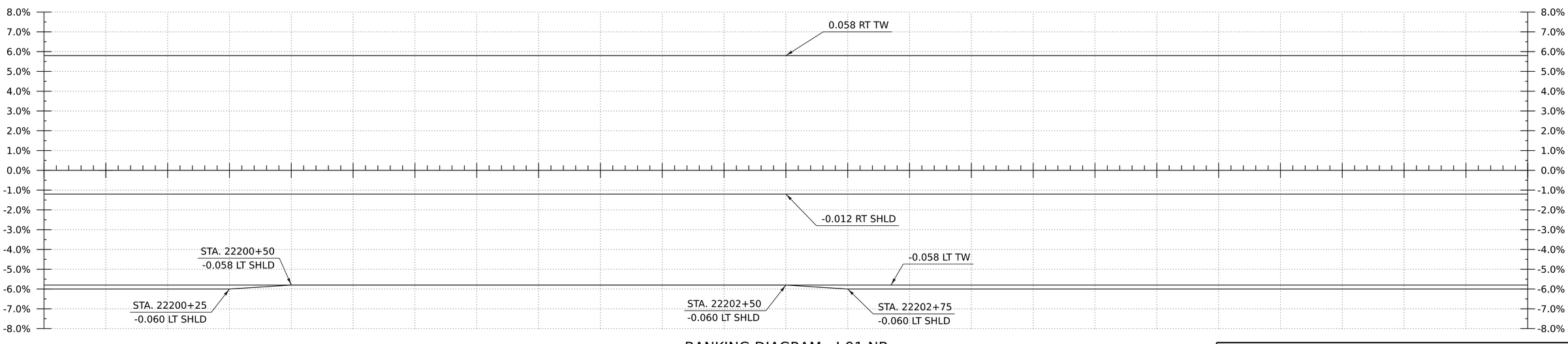

BANKING DIAGRAM - I-91 NB

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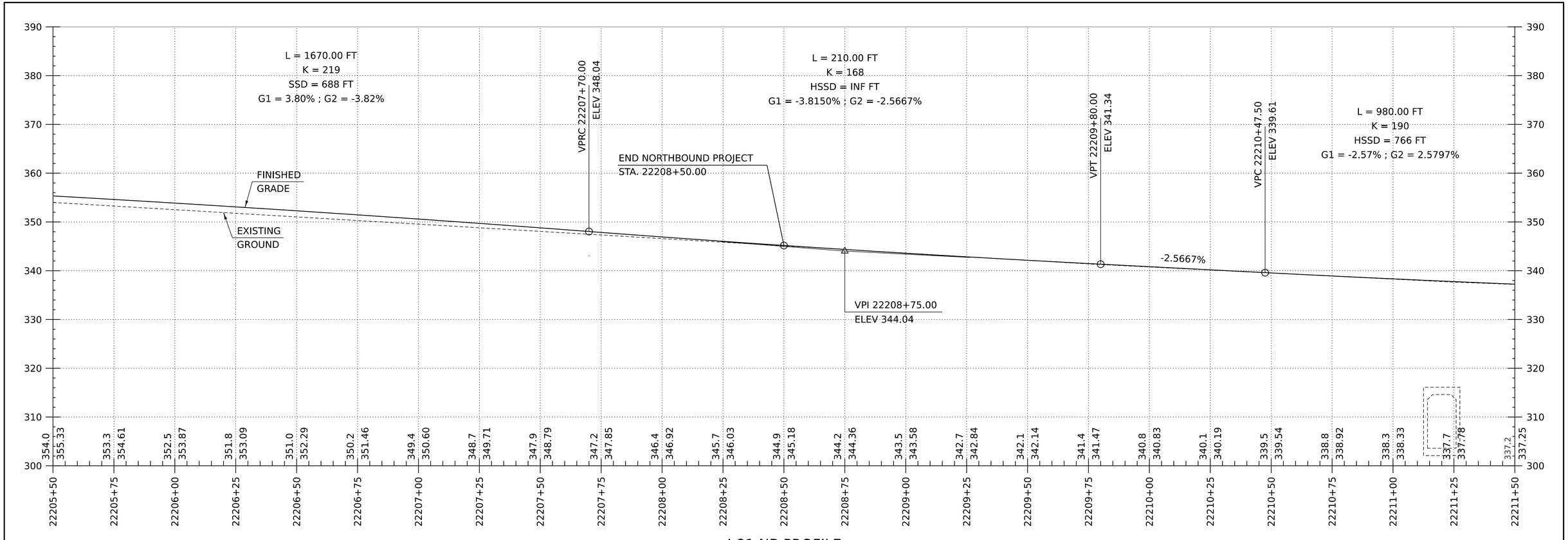
I-91 NB PROFILE SHEET 11		SHEET	103 OF 922



I-91 NB PROFILE

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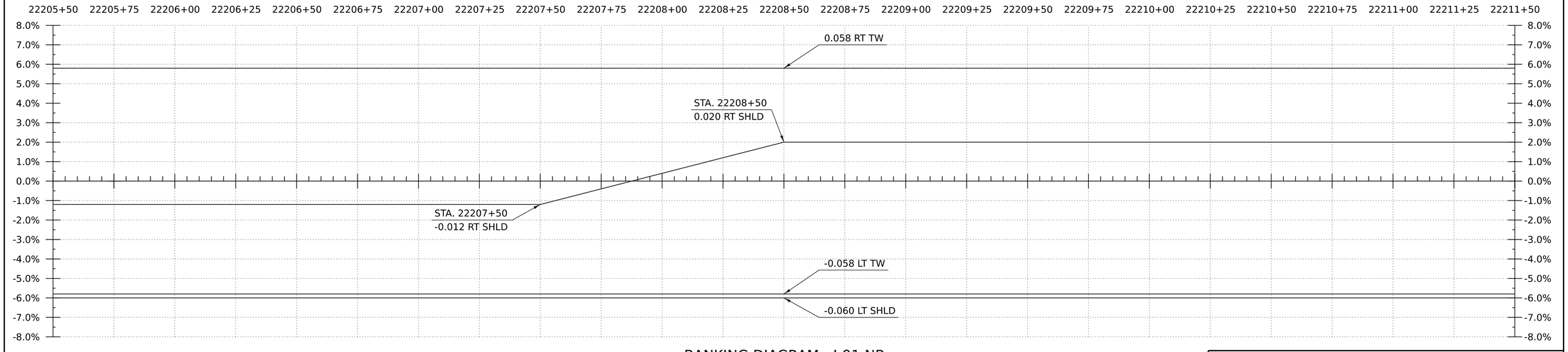

BANKING DIAGRAM - I-91 NB

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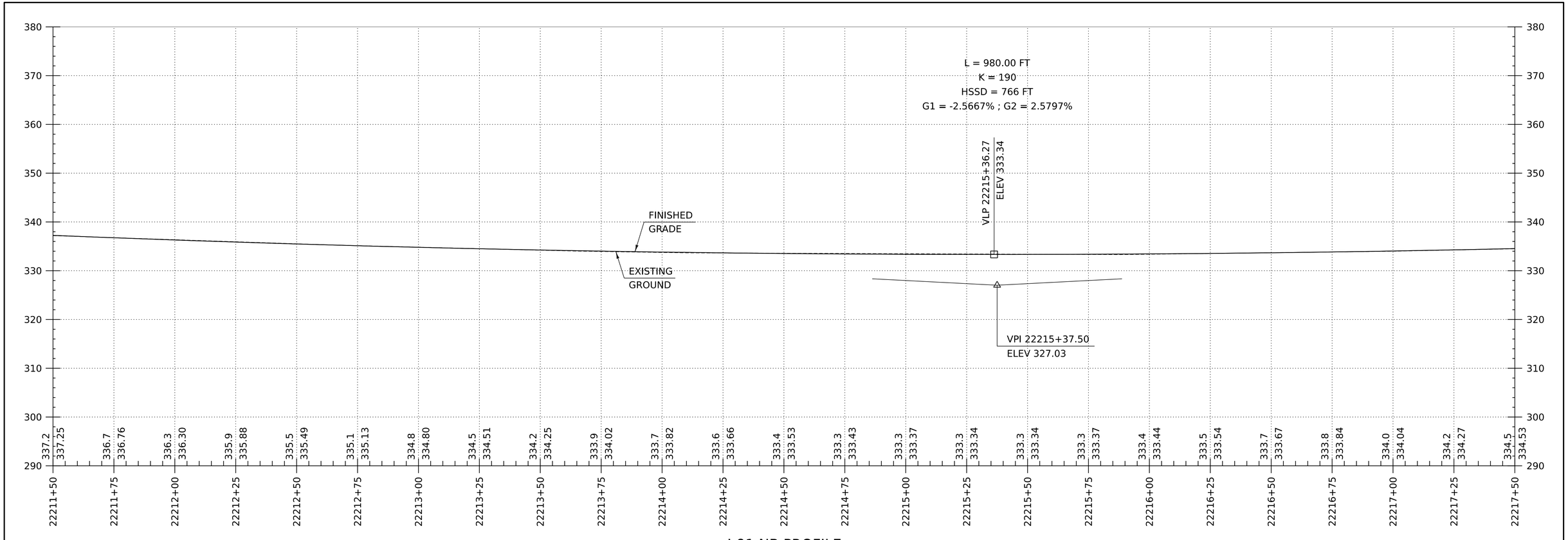
I-91 NB PROFILE SHEET 12		SHEET	104 OF 922



I-91 NB PROFILE

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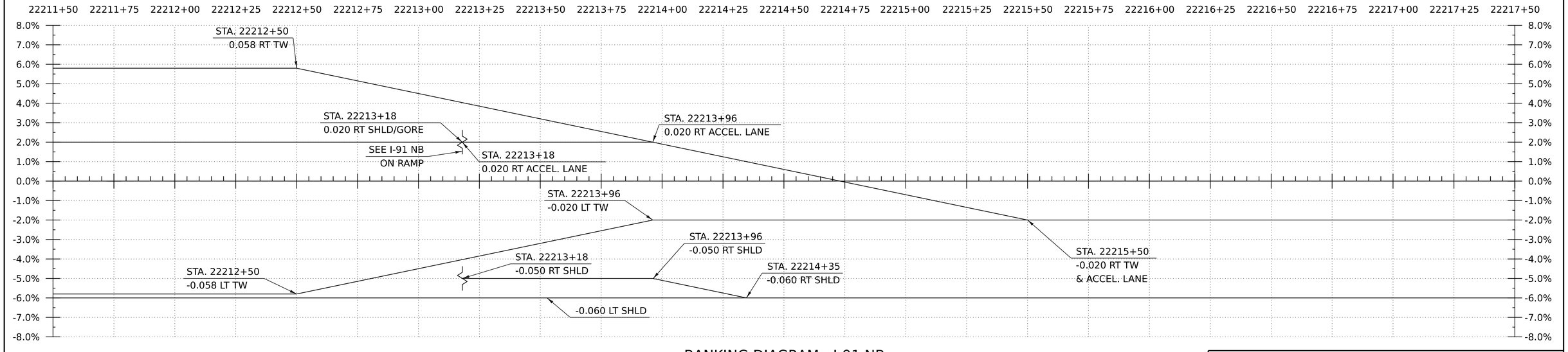

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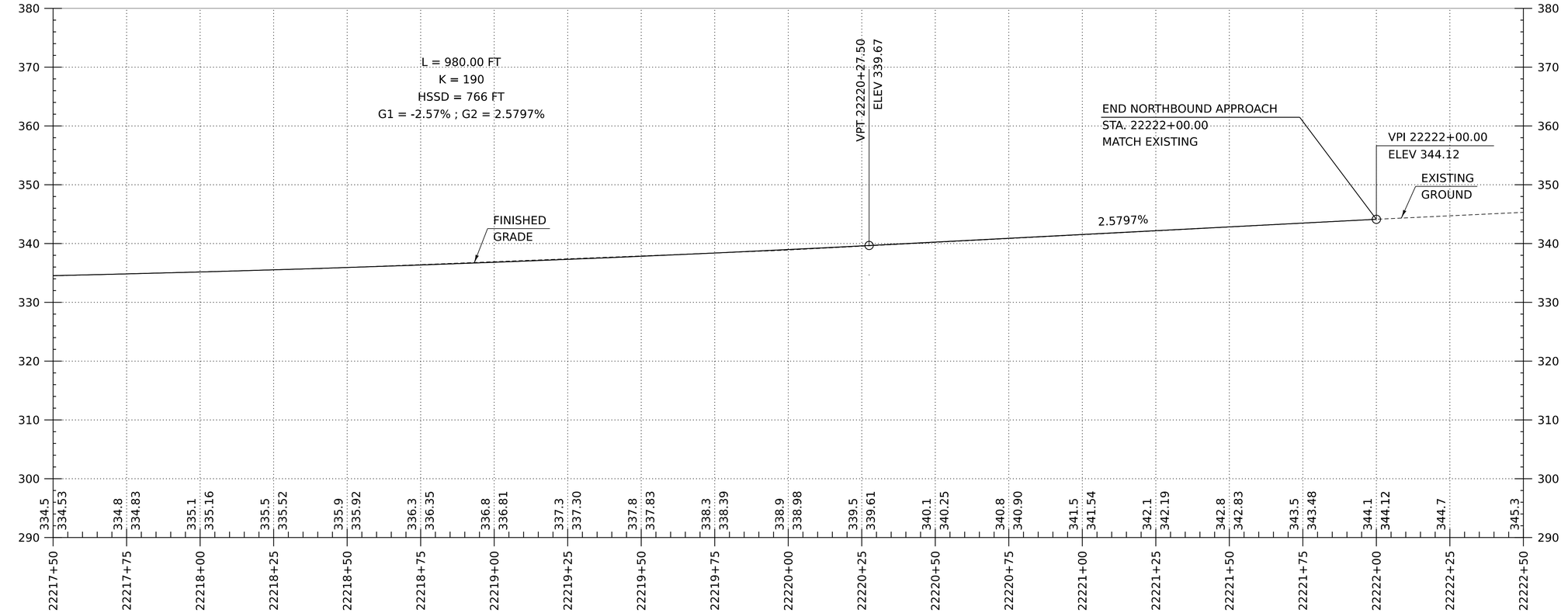
I-91 NB PROFILE SHEET 13		SHEET	105 OF 922



I-91 NB PROFILE

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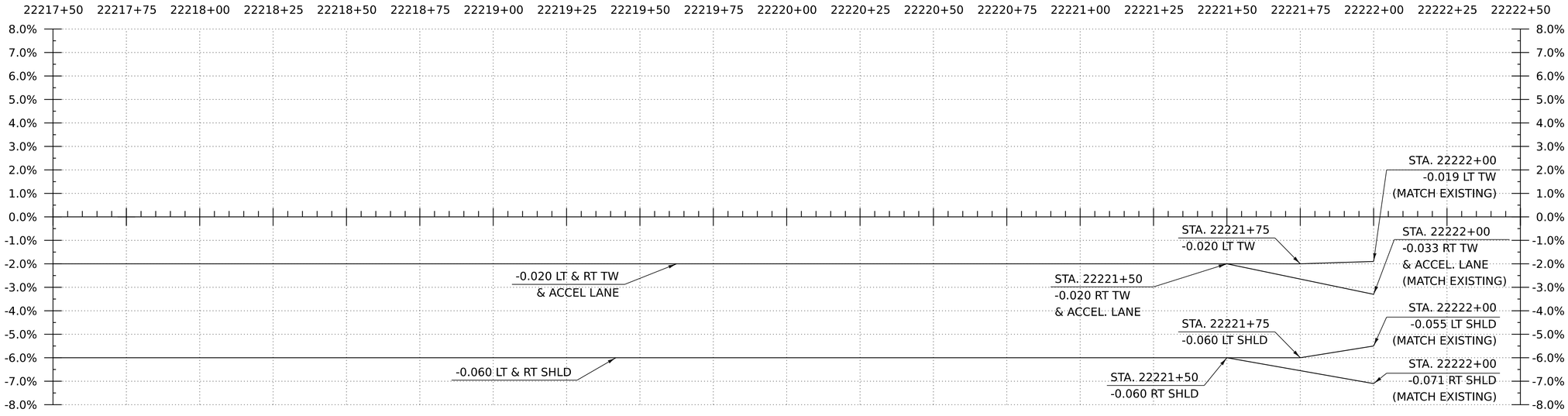

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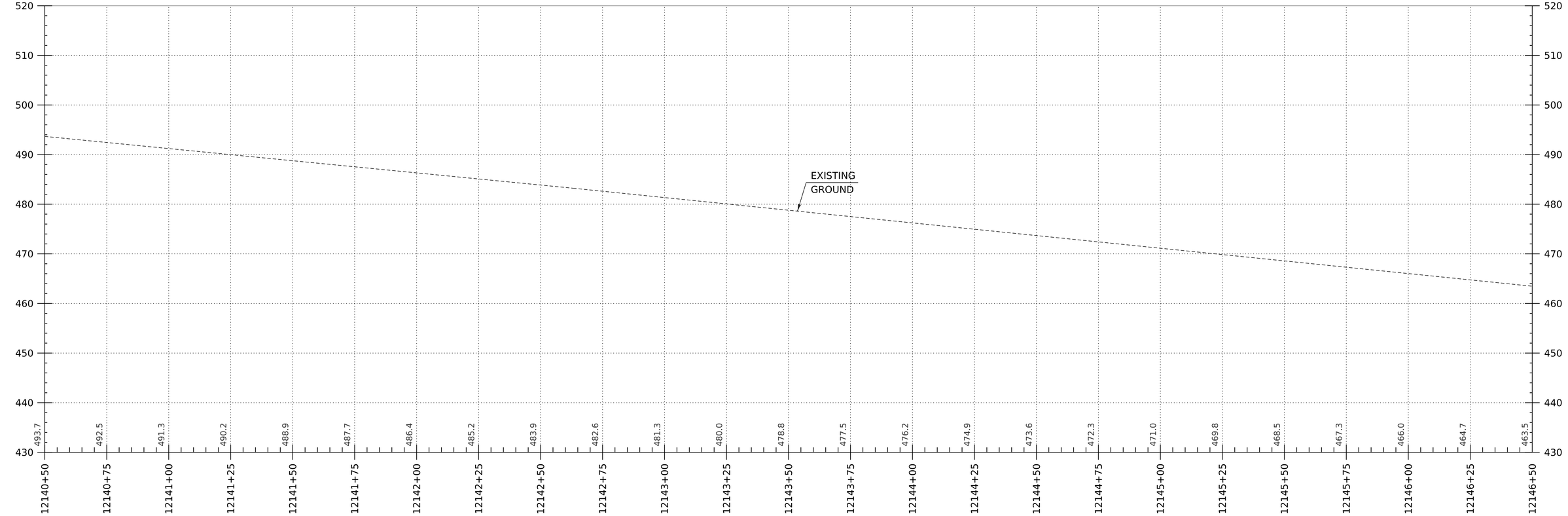
I-91 NB PROFILE SHEET 14	SHEET 106 OF 922



I-91 SB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
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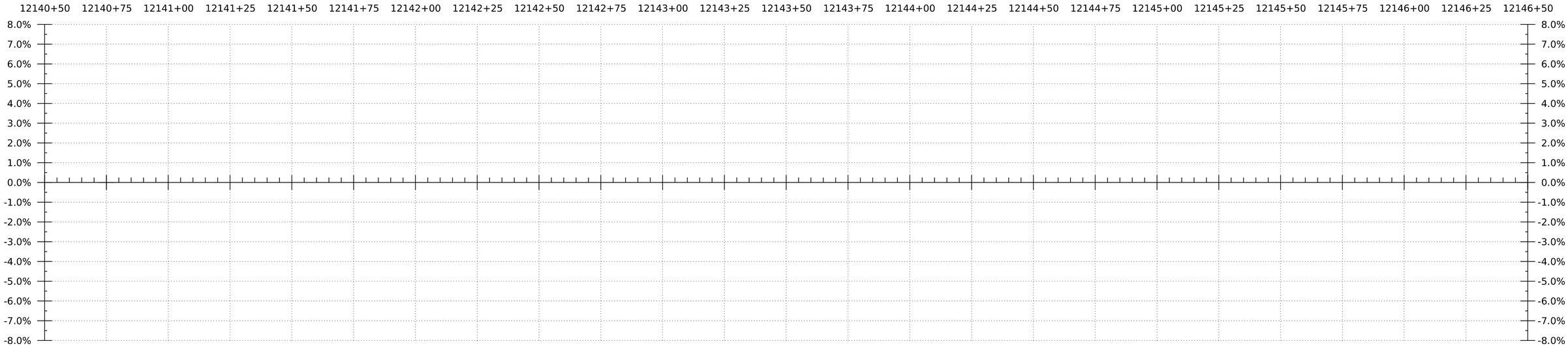

BANKING DIAGRAM - I-91 SB

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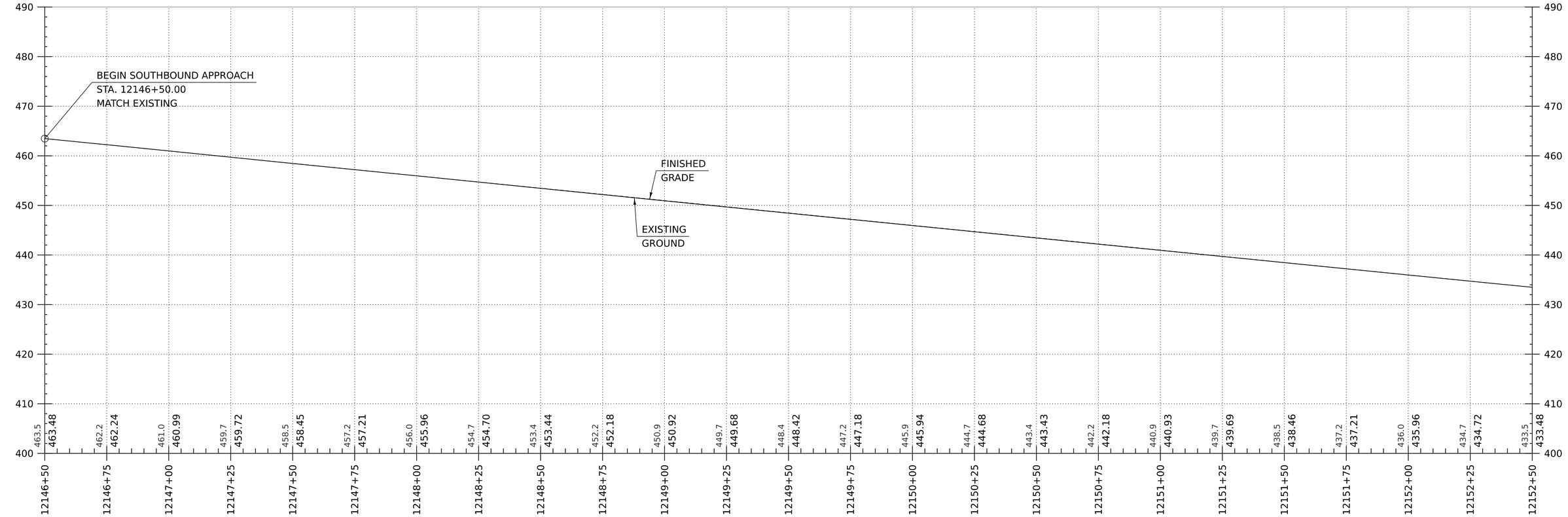
I-91 SB PROFILE SHEET 1	SHEET 107 OF 922



I-91 SB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
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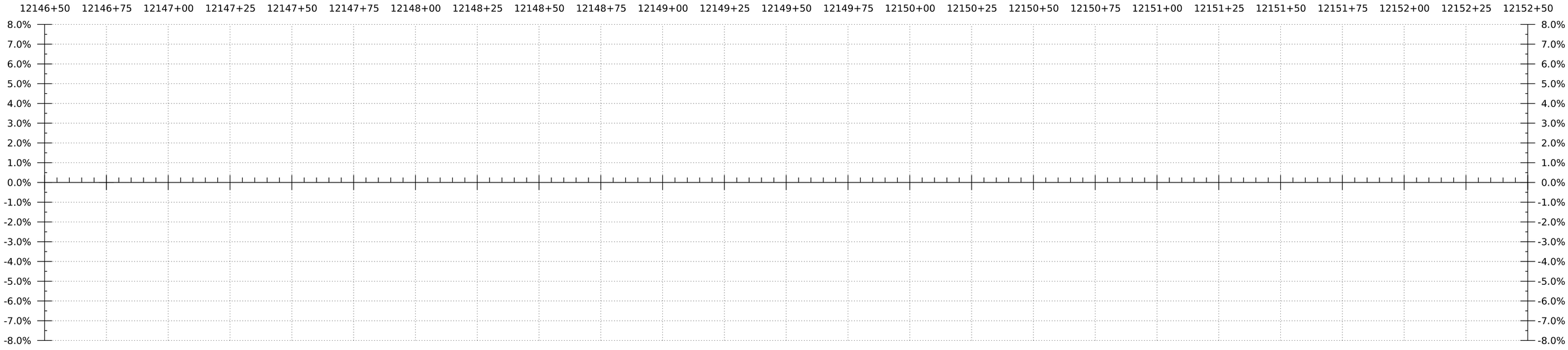

BANKING DIAGRAM - I-91 SB

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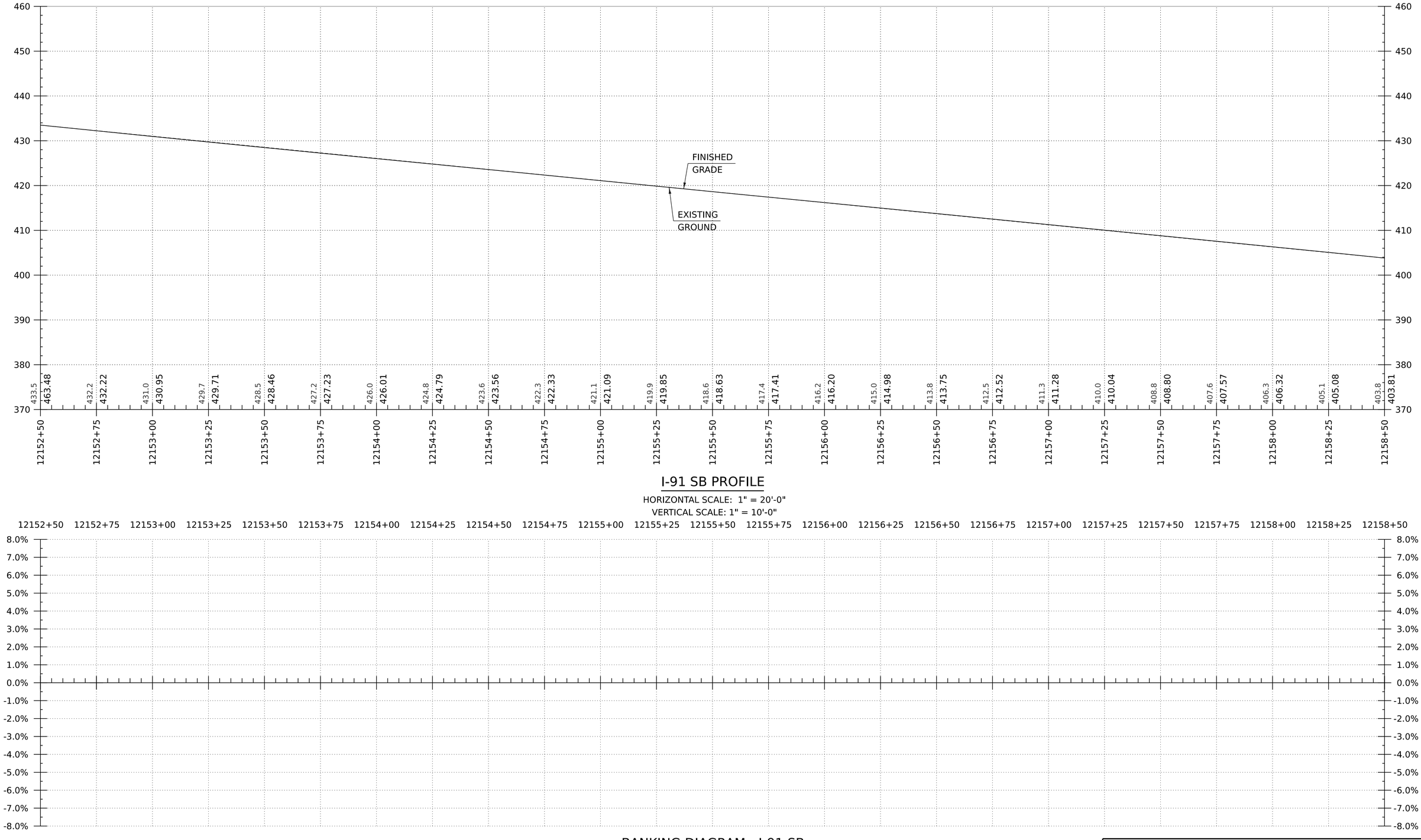
I-91 SB PROFILE SHEET 2	SHEET 108 OF 922



I-91 SB PROFILE

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BANKING DIAGRAM - I-91 SB

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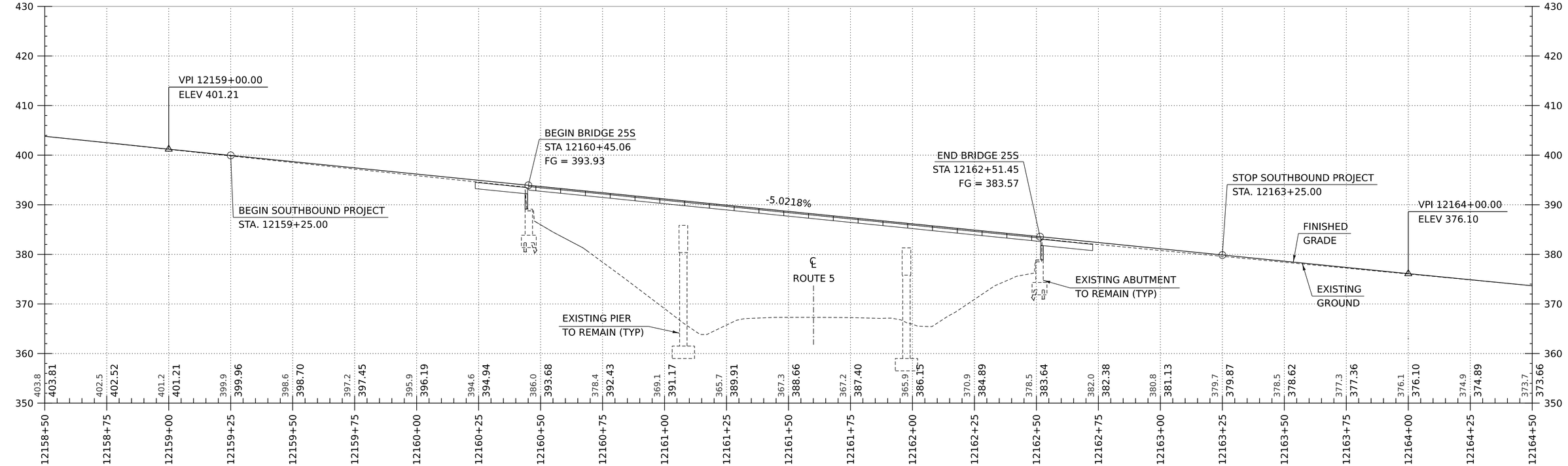
I-91 SB PROFILE SHEET 3	SHEET 109 OF 922



I-91 SB PROFILE

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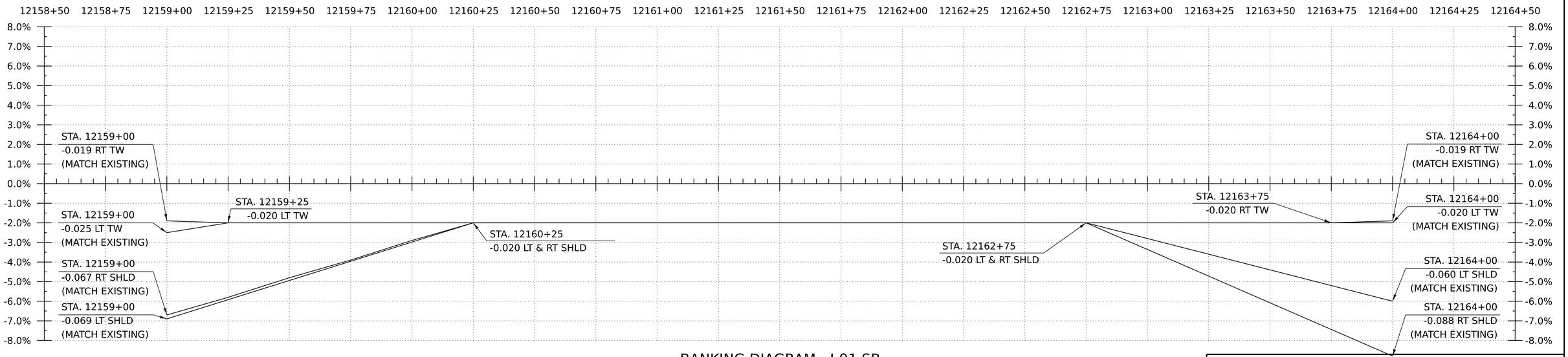

BANKING DIAGRAM - I-91 SB

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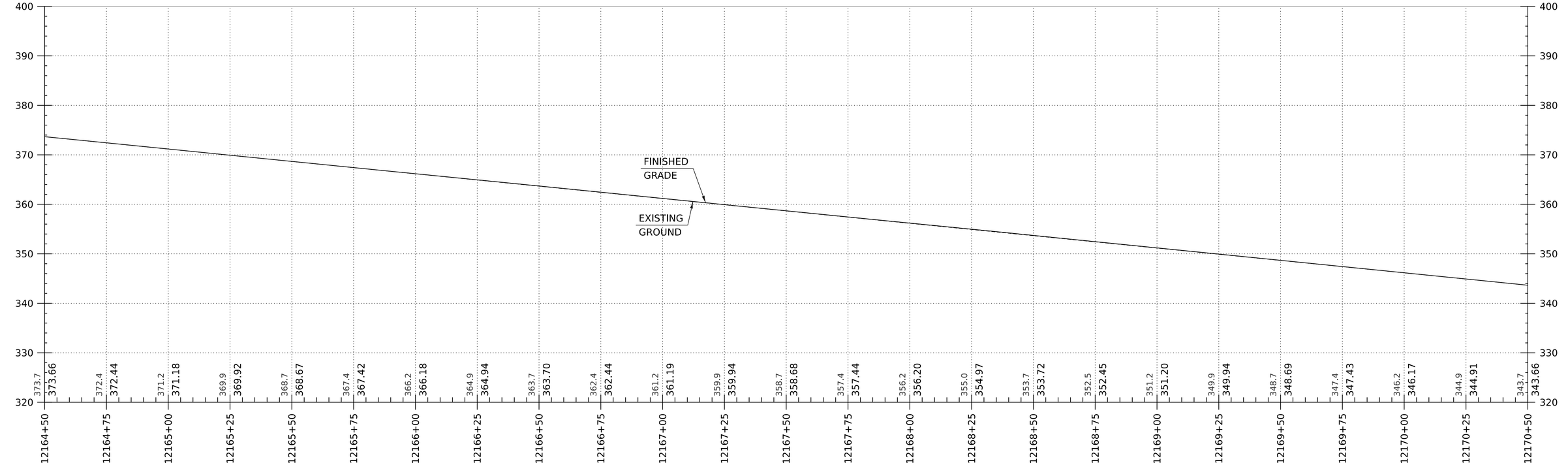
I-91 SB PROFILE SHEET 4	SHEET 110 OF 922



I-91 SB PROFILE

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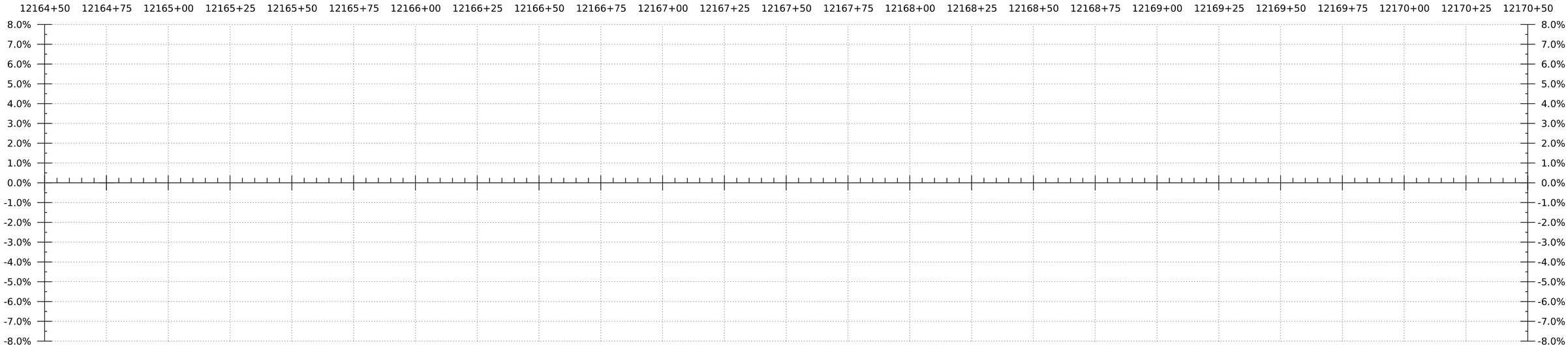

BANKING DIAGRAM - I-91 SB

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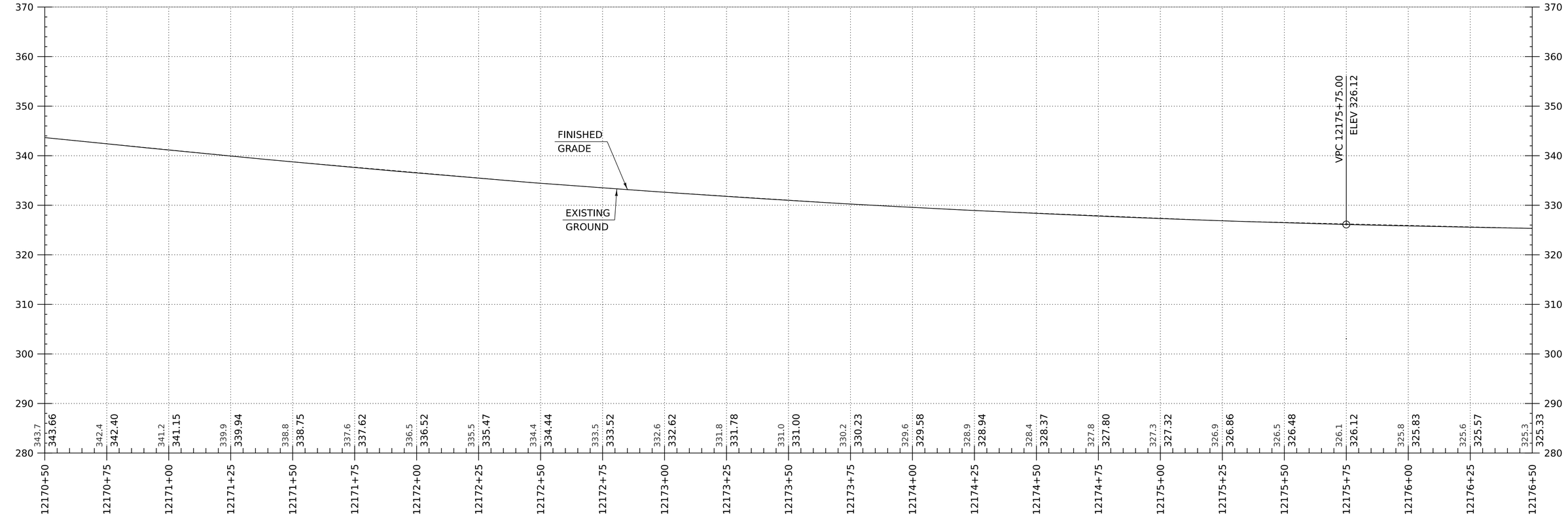
I-91 SB PROFILE SHEET 5	SHEET 111 OF 922



I-91 SB PROFILE

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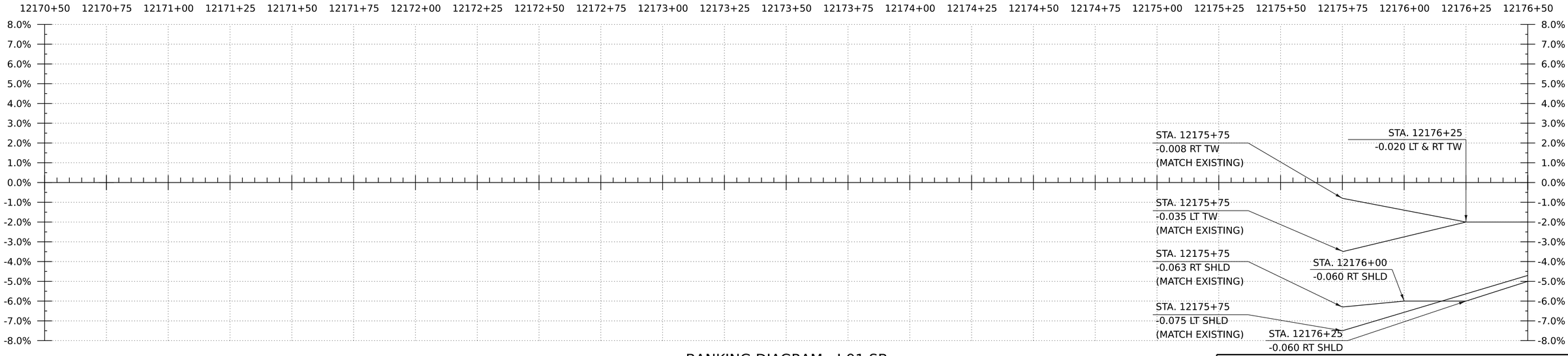

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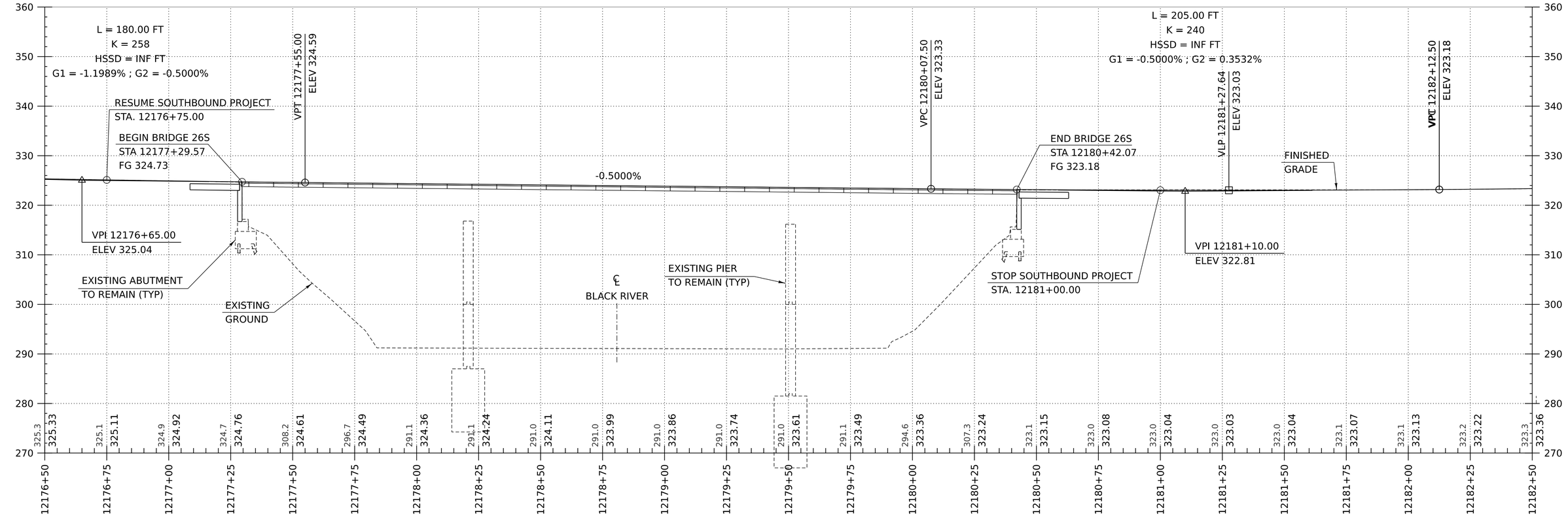
I-91 SB PROFILE SHEET 6	SHEET 112 OF 922



I-91 SB PROFILE

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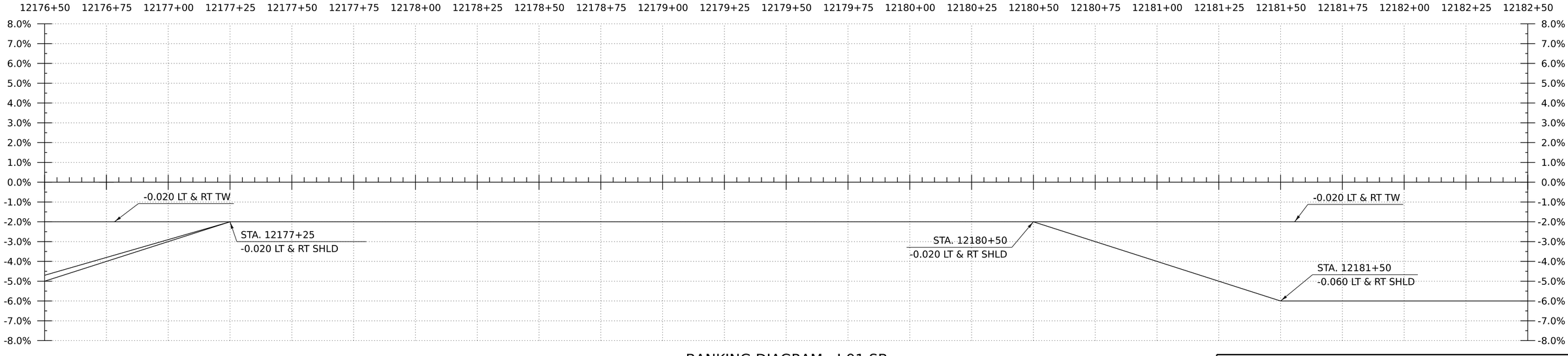

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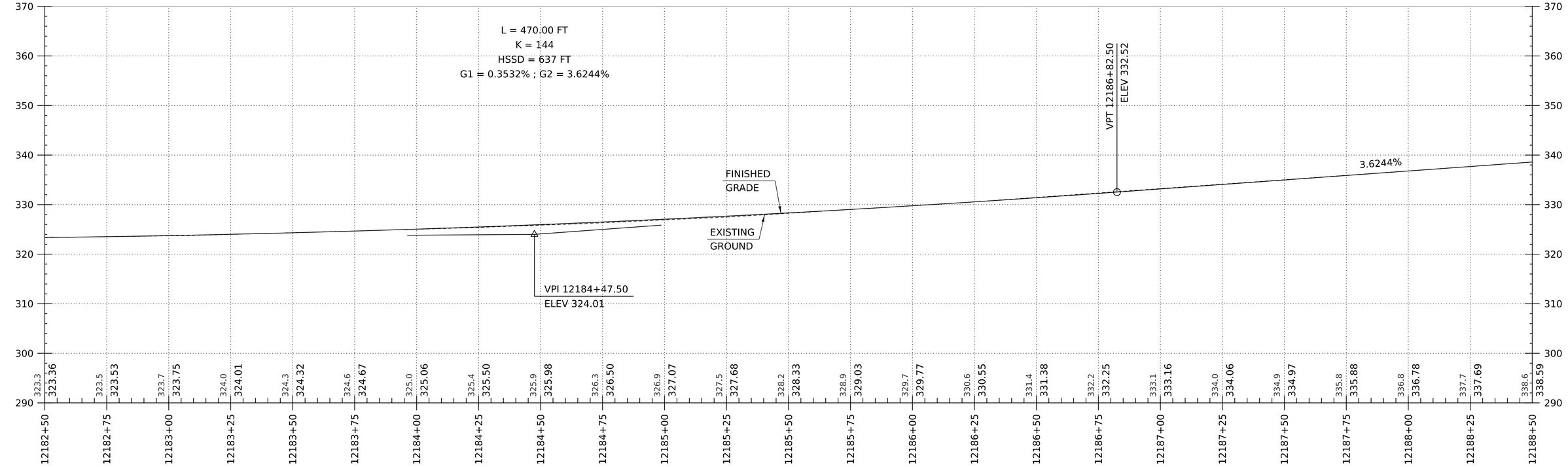
I-91 SB PROFILE SHEET 7	SHEET 113 OF 922



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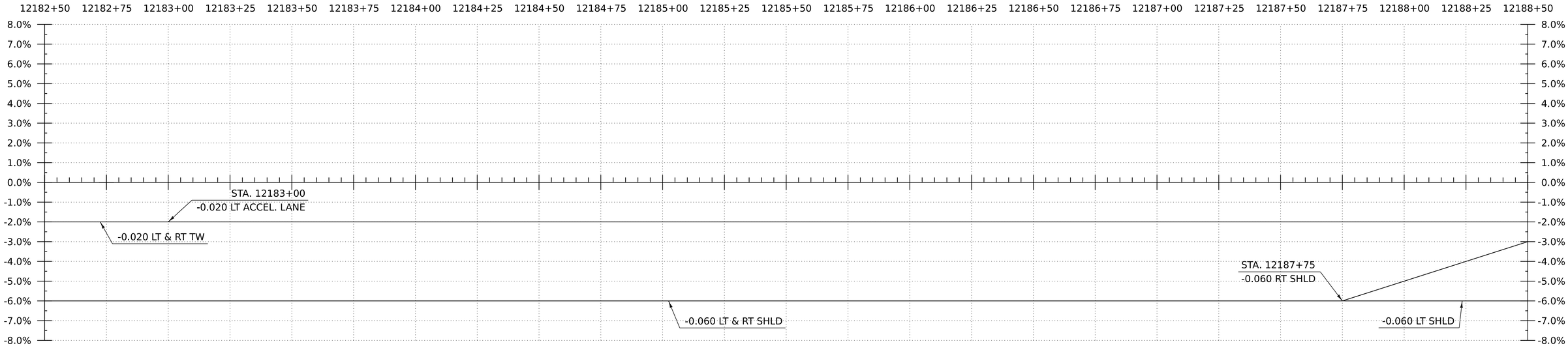

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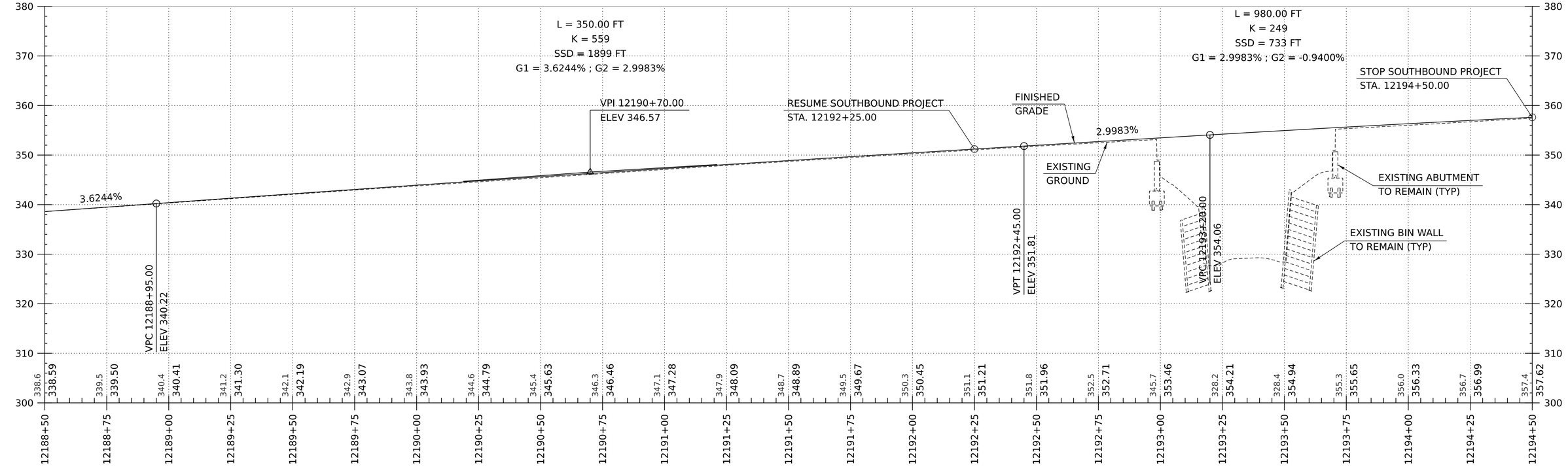
I-91 SB PROFILE SHEET 8	SHEET 114 OF 922



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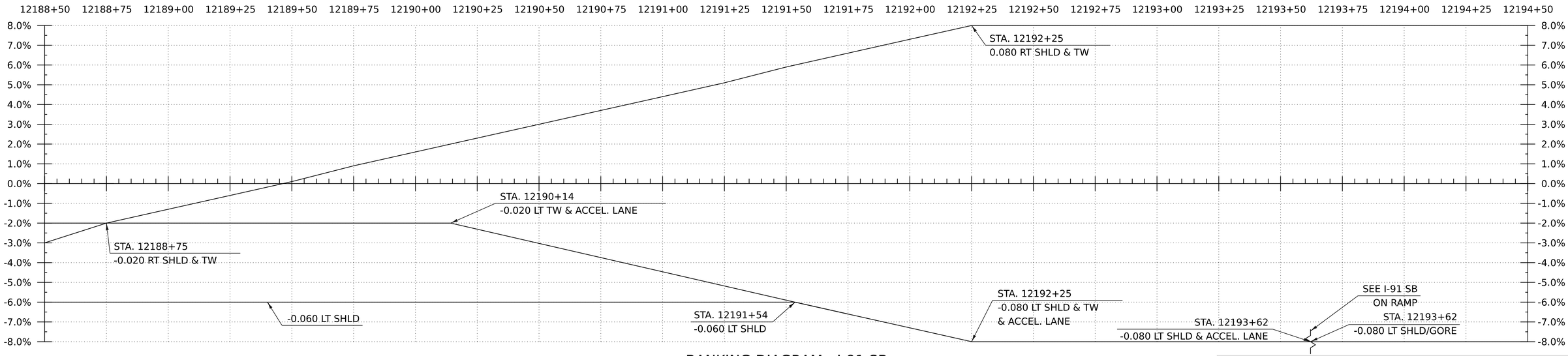

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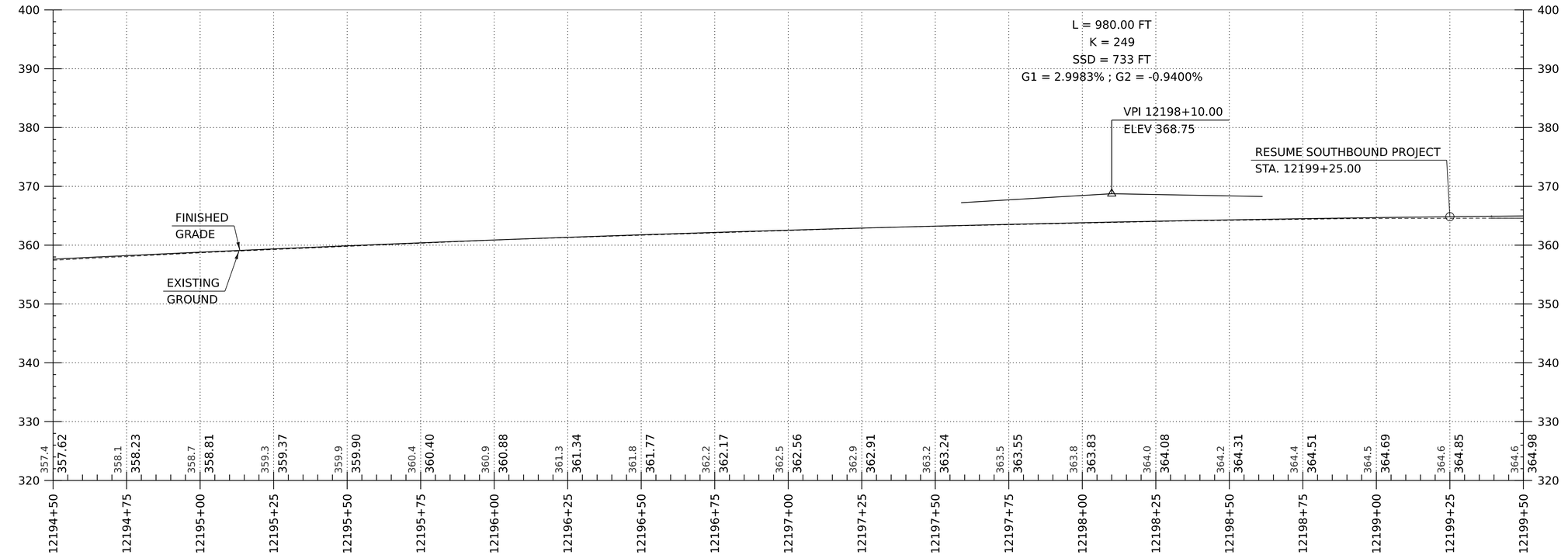
I-91 SB PROFILE SHEET 9	SHEET 115 OF 922



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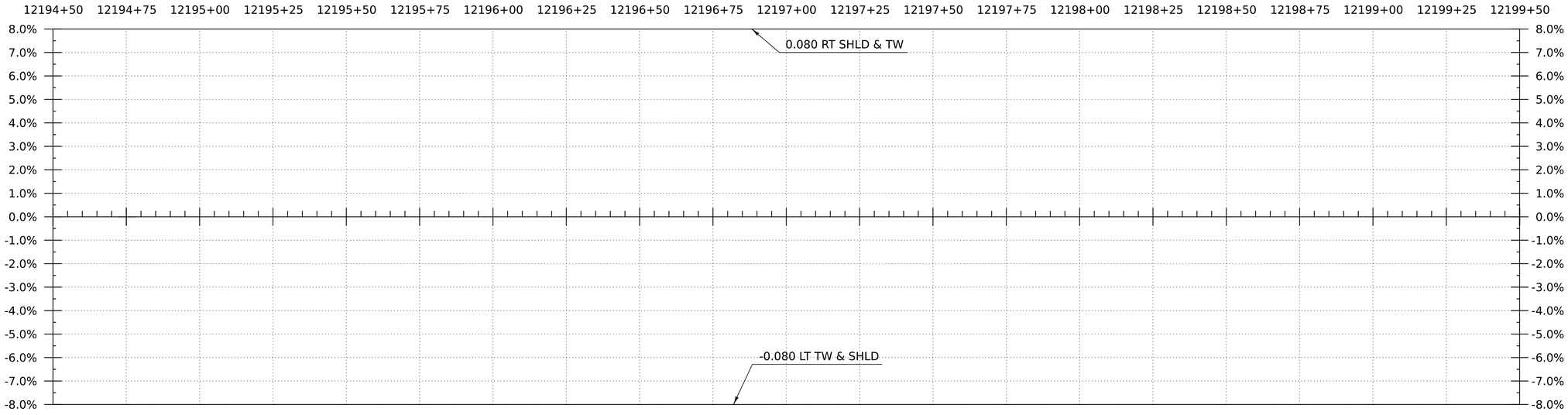

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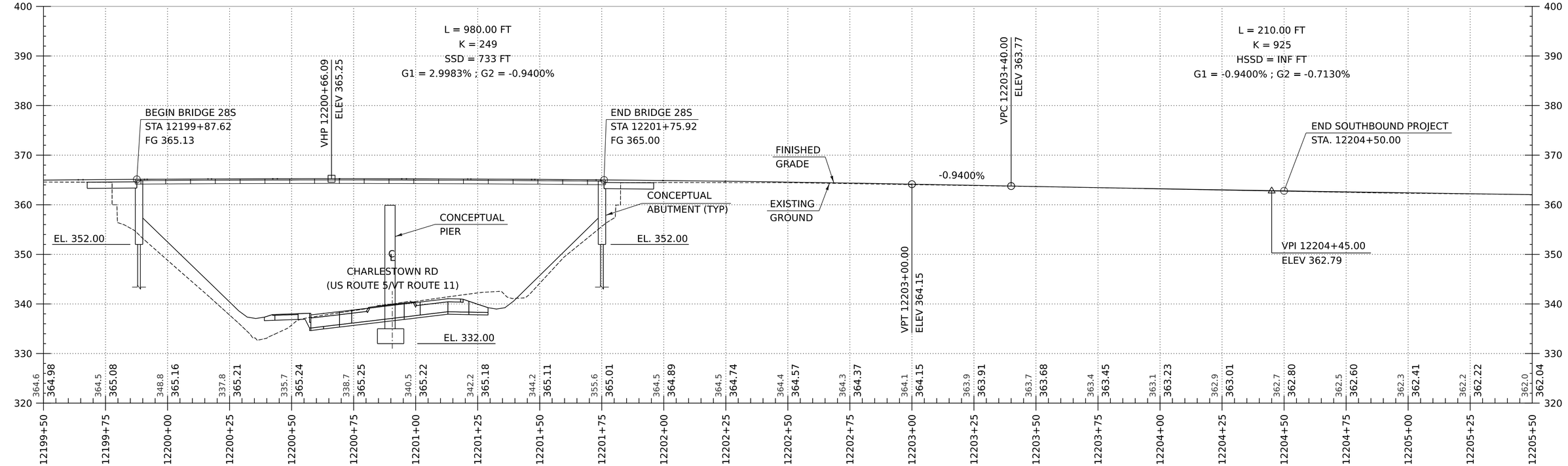
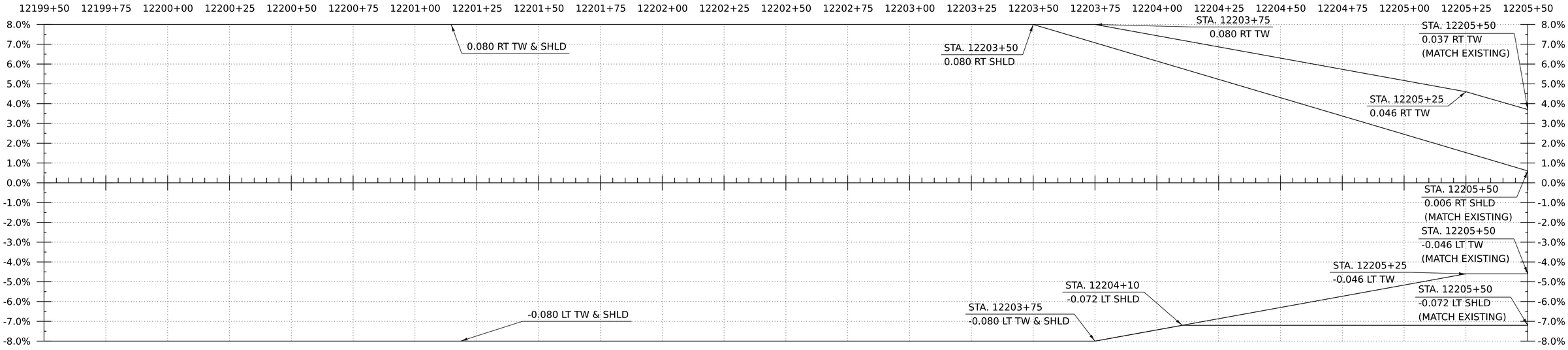
I-91 SB PROFILE SHEET 10	SHEET 116 OF 922



I-91 SB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



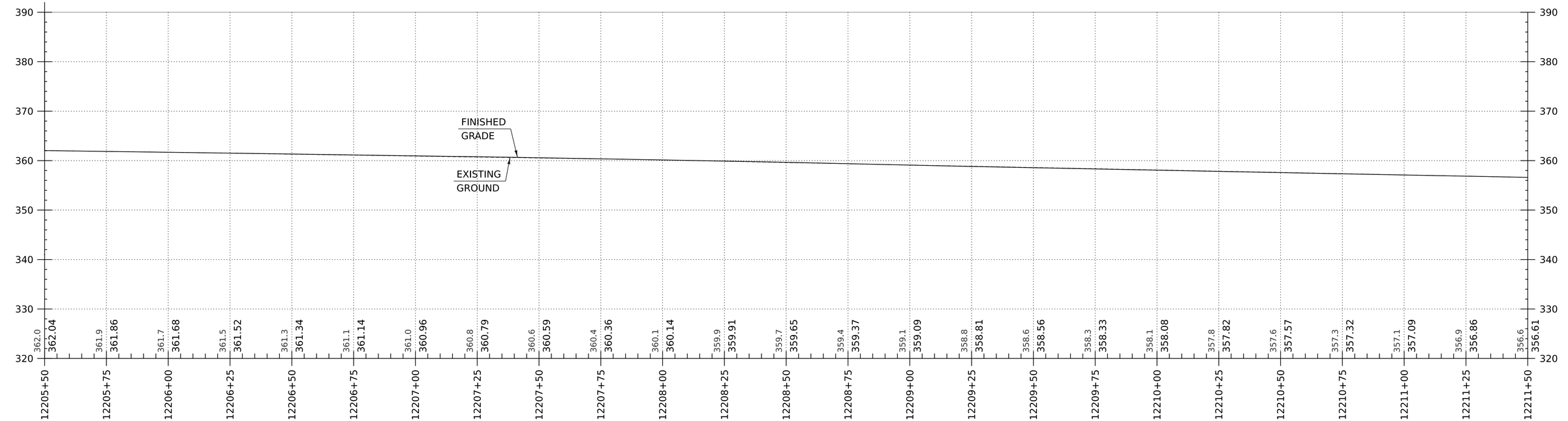
BANKING DIAGRAM - I-91 SB

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

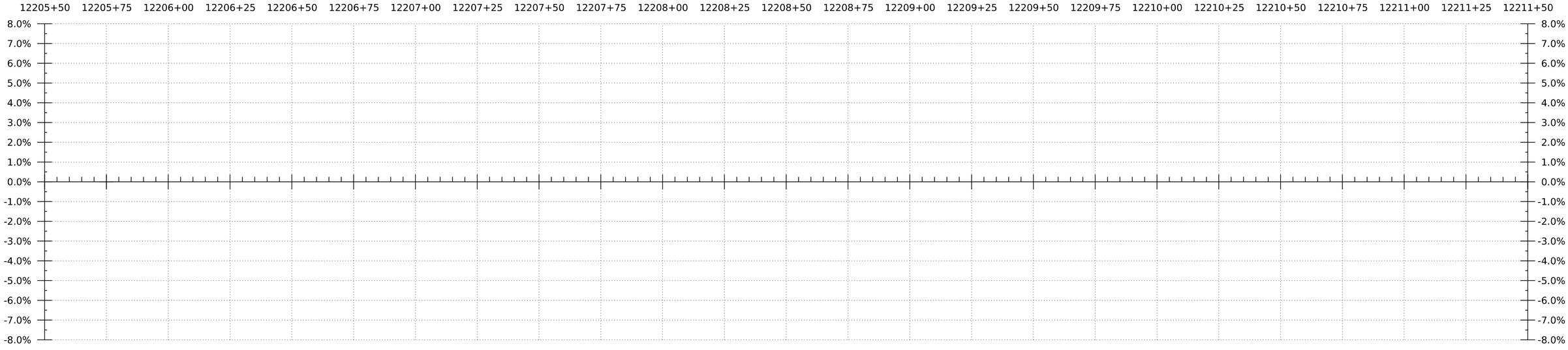
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 11	SHEET 117 OF 922



I-91 SB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 SB

HORIZ:1"=20'
NO VERTICAL SCALE

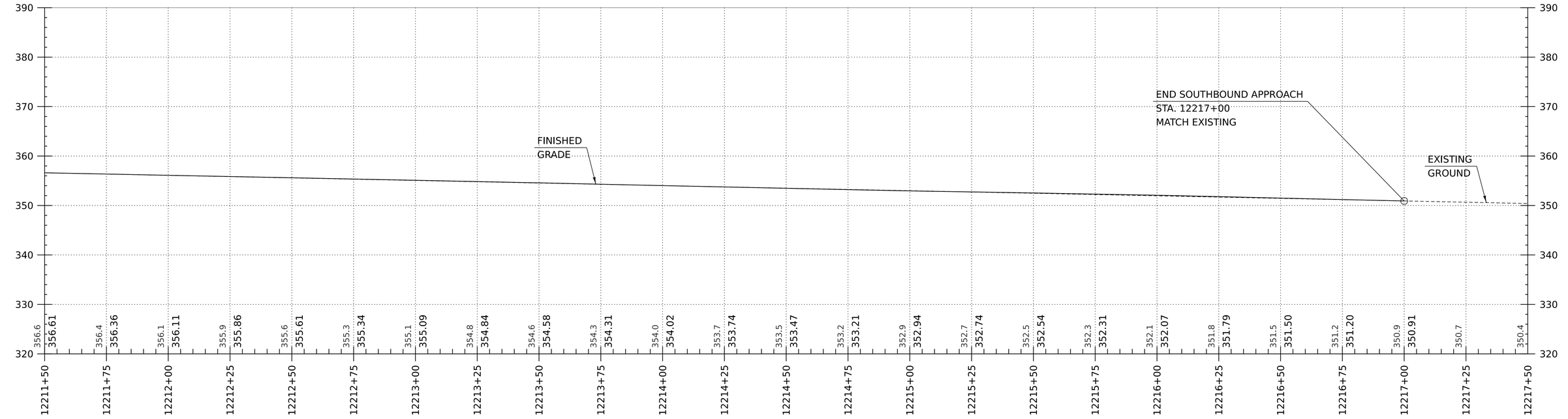
THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

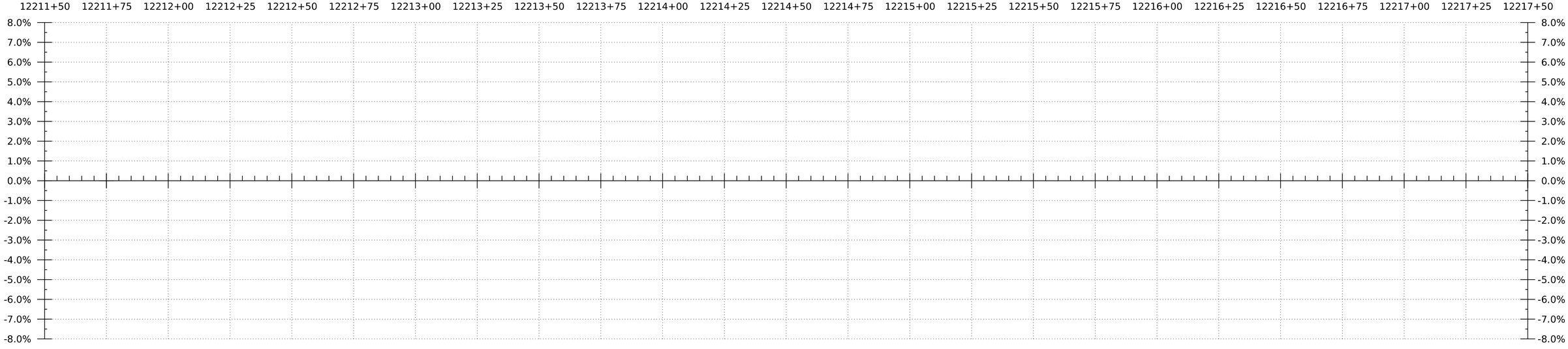
FILE NAME: z12a574pro_I-91_SB
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 SB PROFILE SHEET 12

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICk
CHECKED BY: L. DRISCOLL
SHEET 118 OF 922



I-91 SB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 SB

HORIZ:1"=20'
NO VERTICAL SCALE

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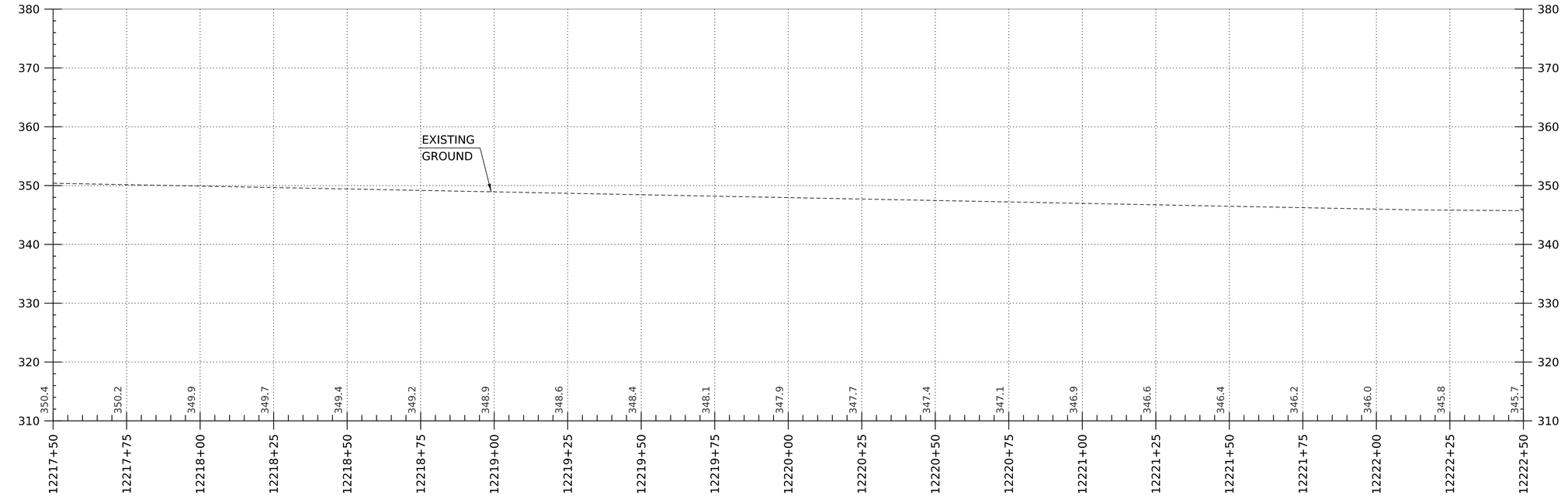
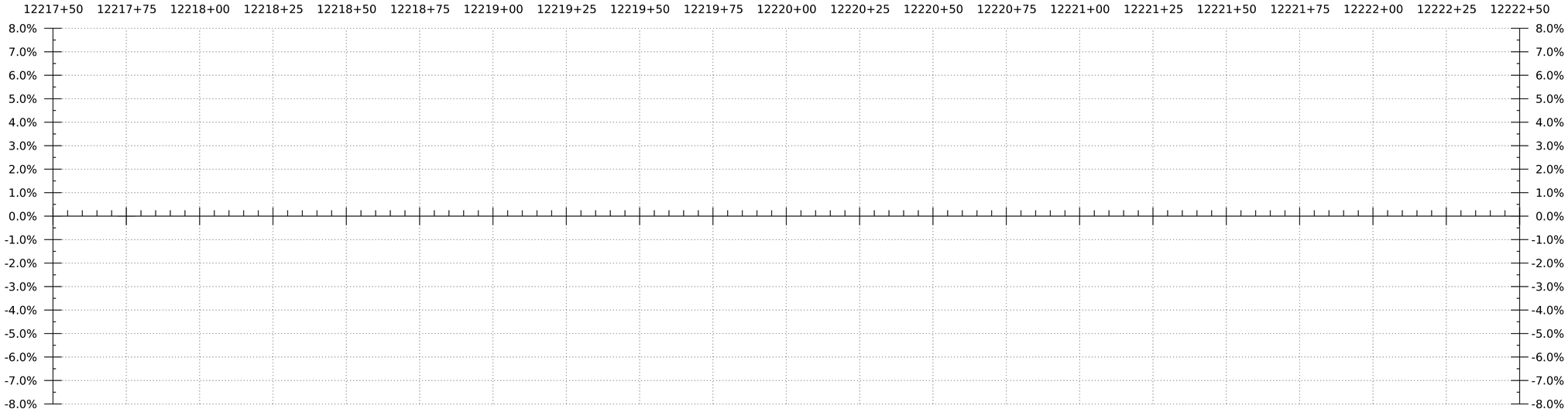
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 13	SHEET 119 OF 922



I-91 SB PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 SB

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT. THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

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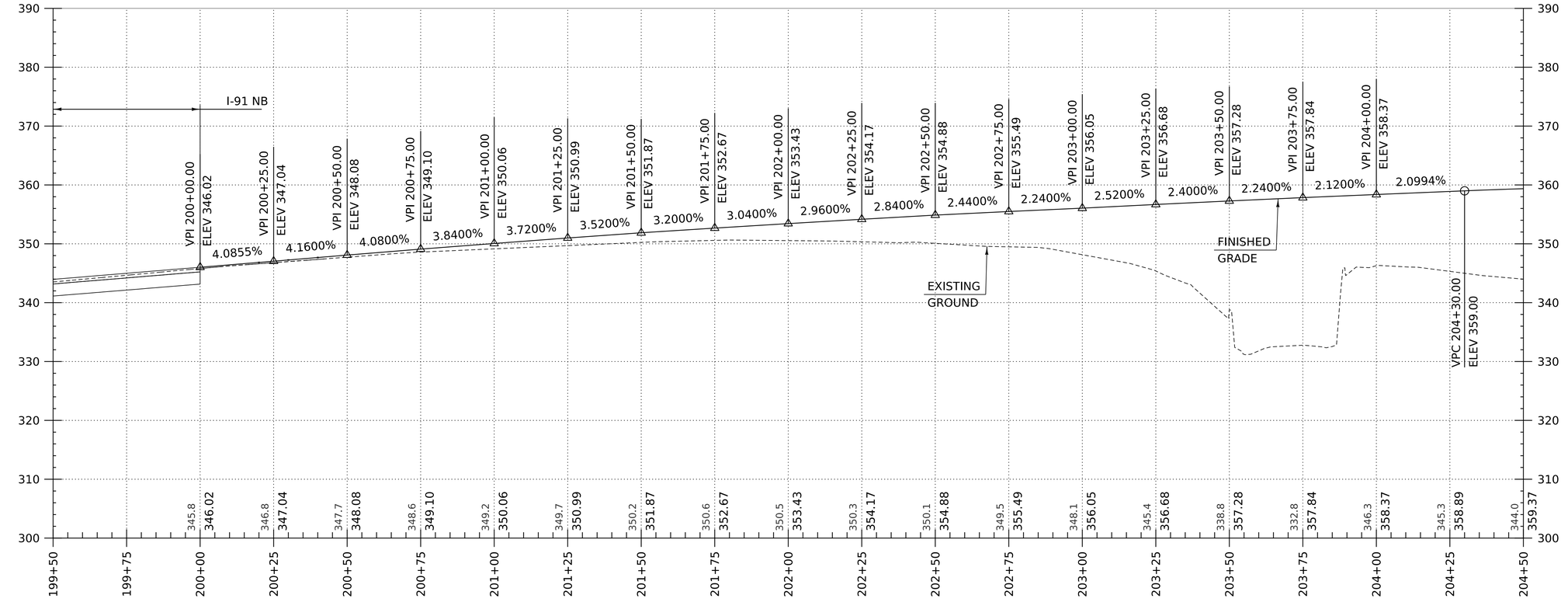
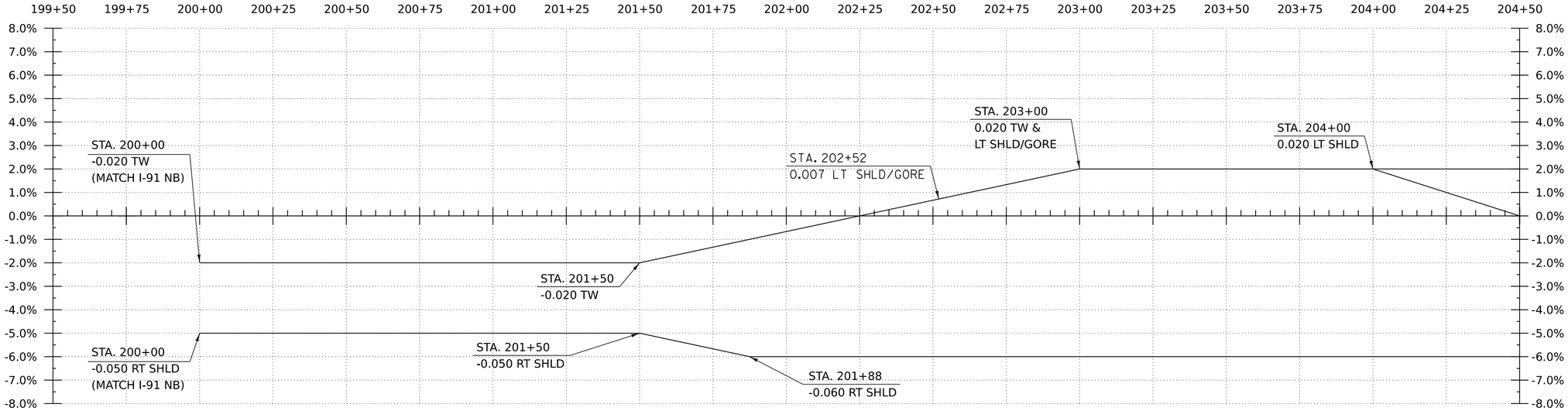
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_SB	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB PROFILE SHEET 14	SHEET 120 OF 922



I-91 NB OFF RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB OFF RAMP

HORIZ:1"=20'
NO VERTICAL SCALE

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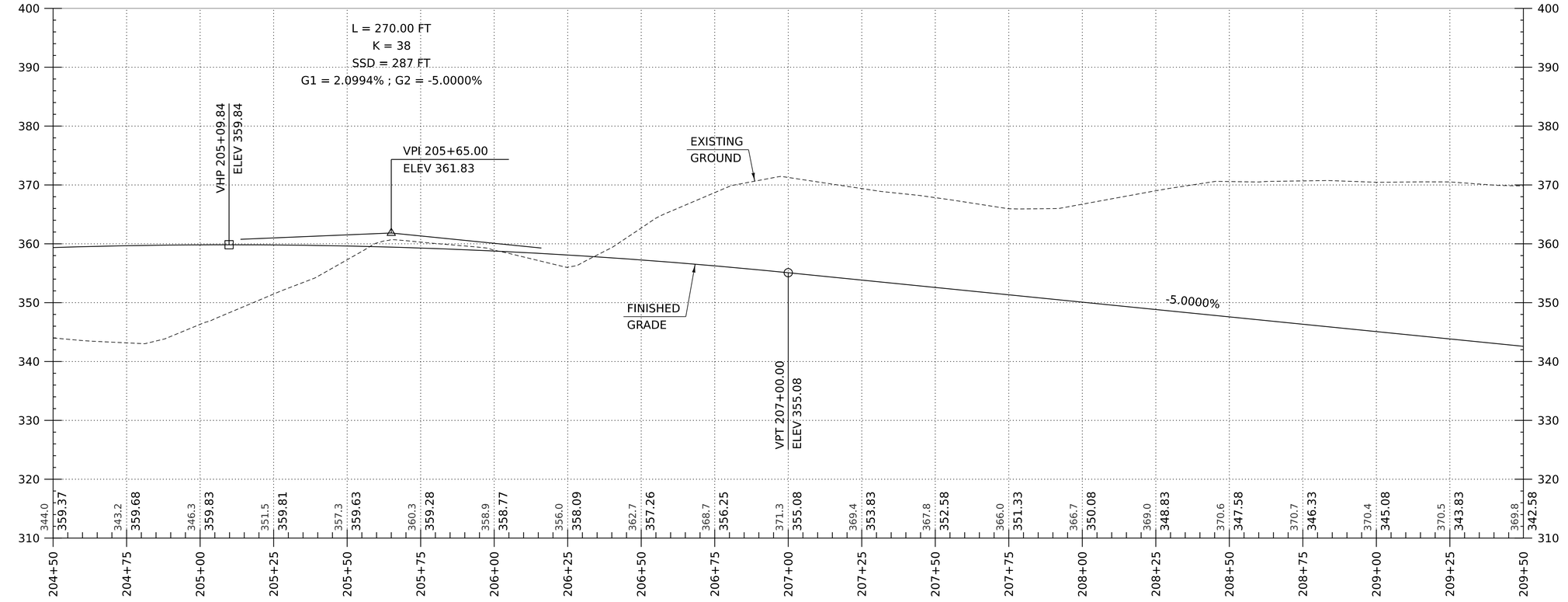
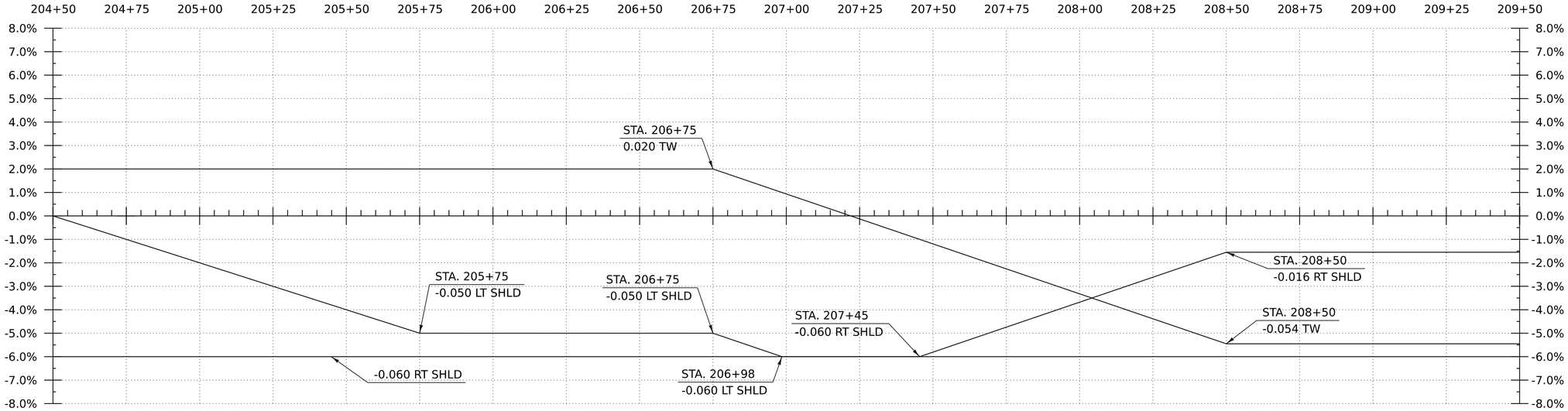
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_Off_Ramp	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP PROFILE SHEET 1	SHEET 121 OF 922



I-91 NB OFF RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB OFF RAMP

HORIZ:1"=20'
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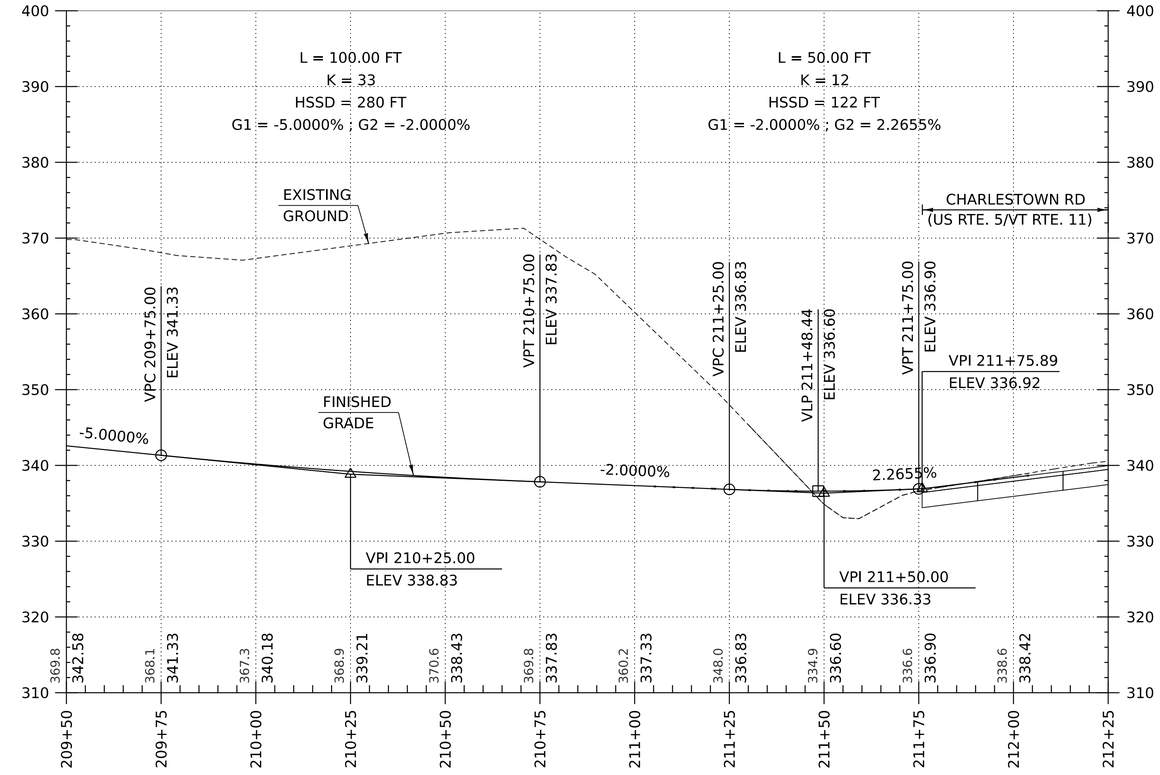
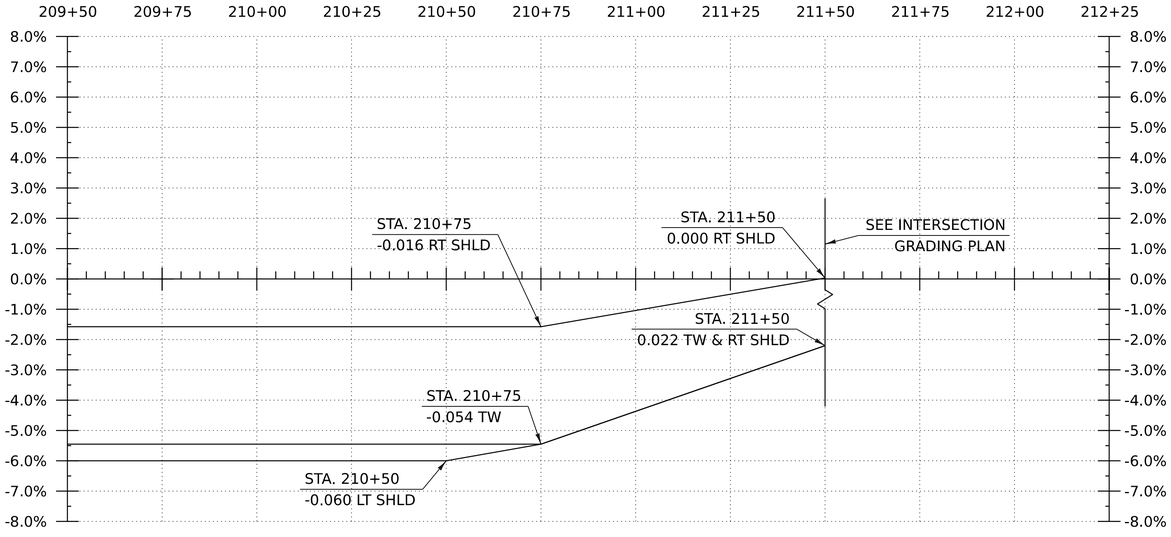
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_Off_Ramp	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP PROFILE SHEET 2	SHEET 122 OF 922



I-91 NB OFF RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB OFF RAMP

HORIZ:1"=20'
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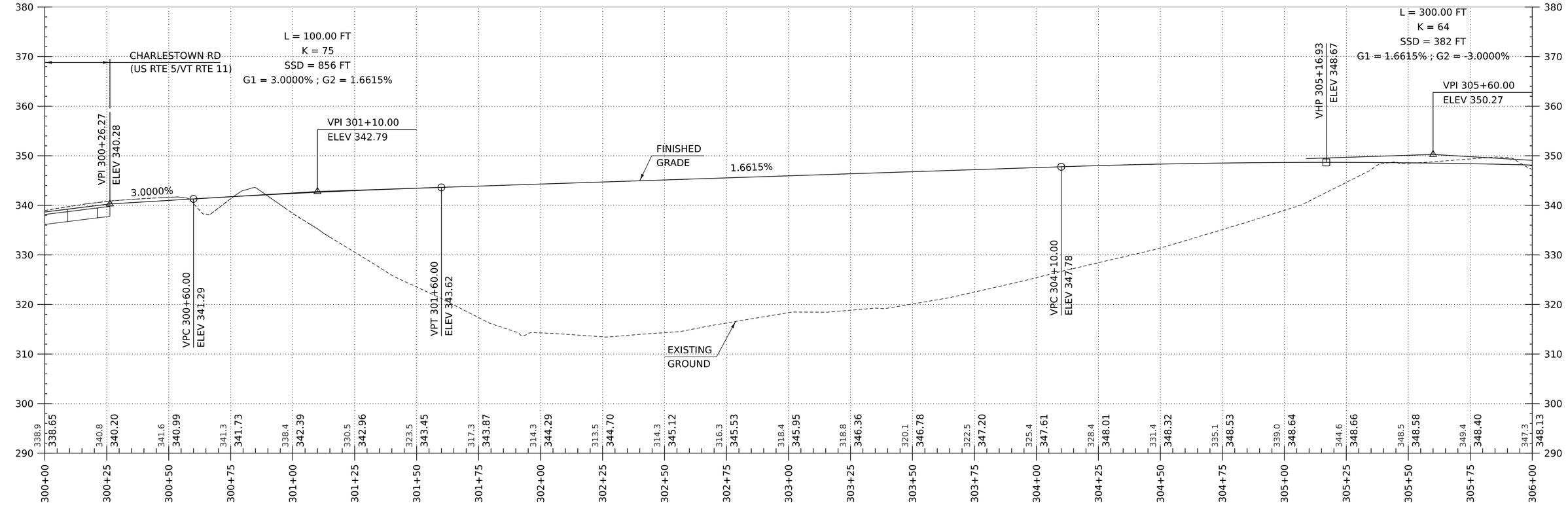
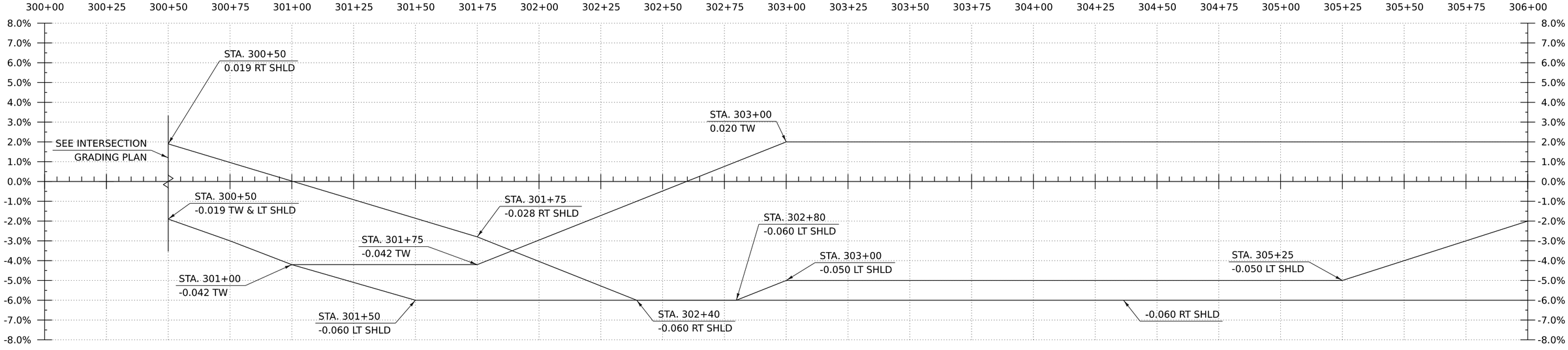
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pro_I-91_NB_Off_Ramp	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP PROFILE SHEET 3		SHEET	123 OF 922



I-91 NB ON RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB ON RAMP

HORIZ:1"=20'
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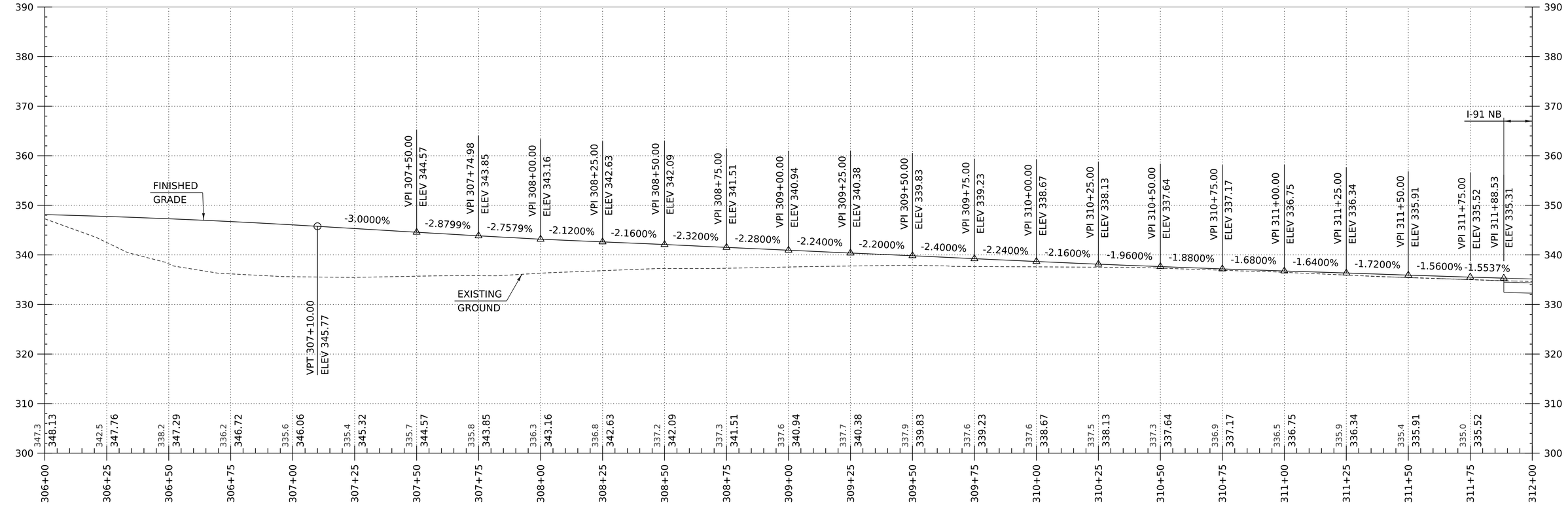
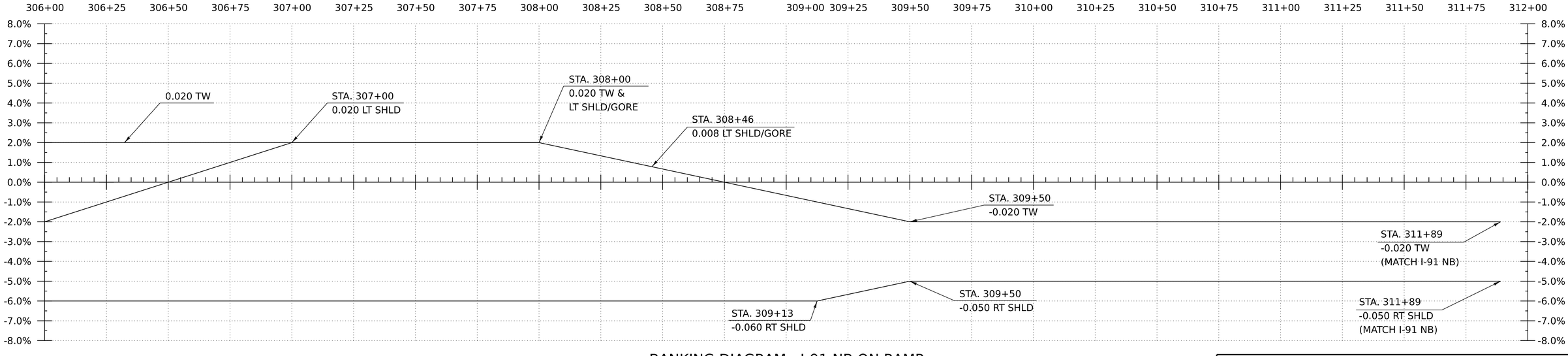
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_I-91_NB_On_Ramp	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP PROFILE SHEET 1	SHEET 124 OF 922



I-91 NB ON RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 NB ON RAMP

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
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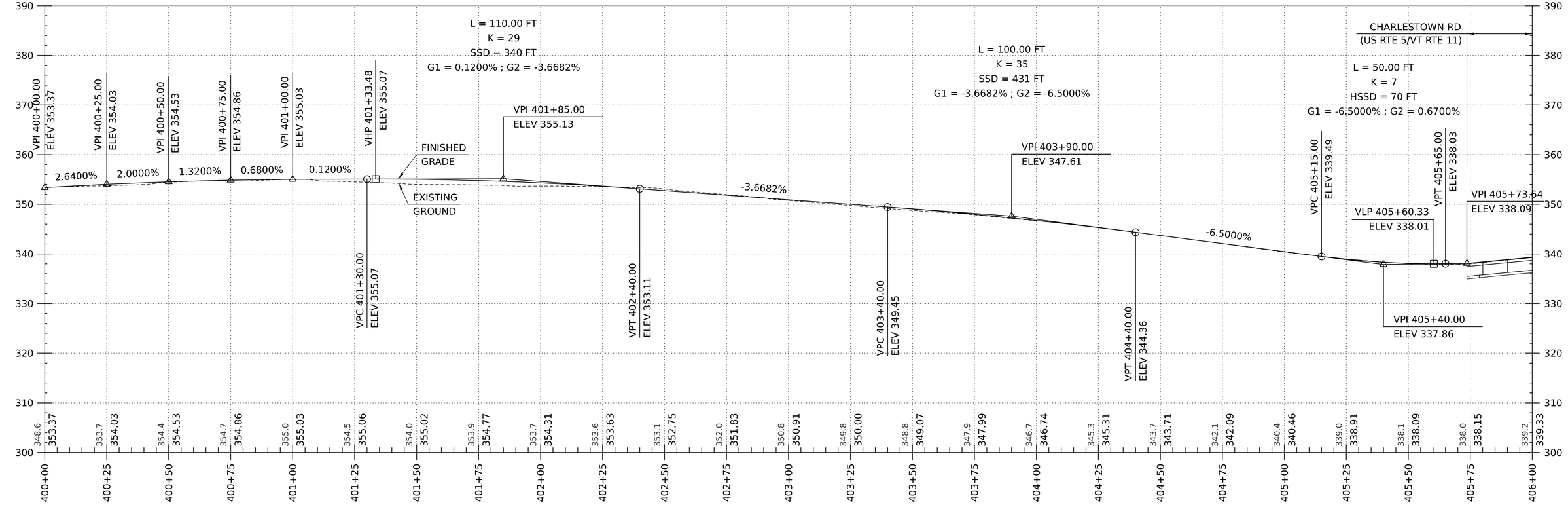
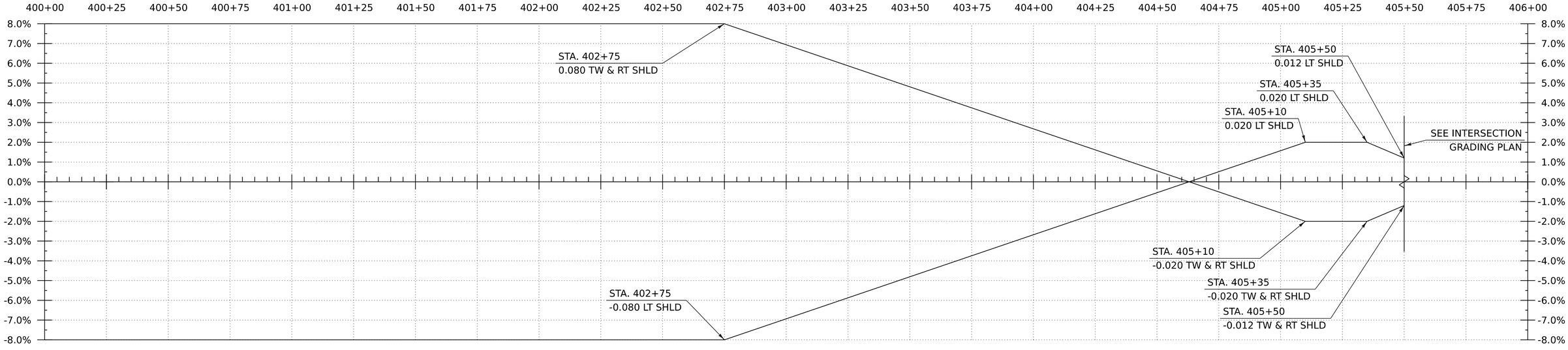
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pro_I-91_NB_On_Ramp	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP PROFILE SHEET 2		SHEET	125 OF 922



I-91 SB ON RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



BANKING DIAGRAM - I-91 SB ON RAMP

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
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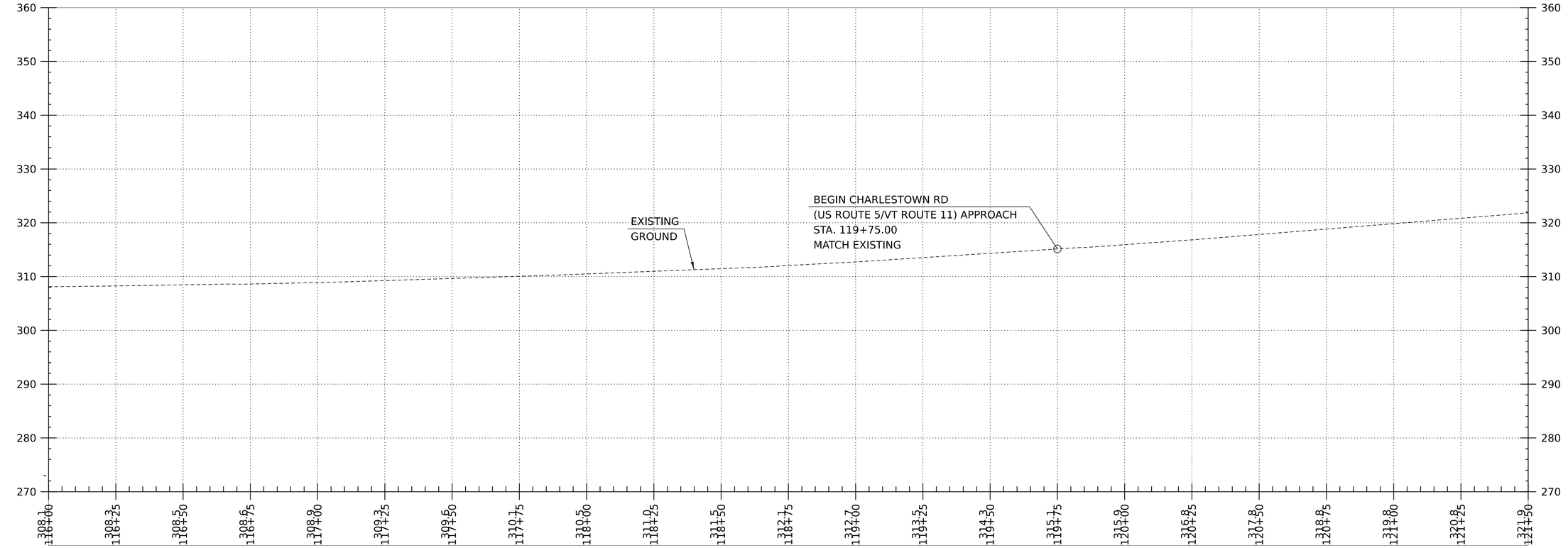
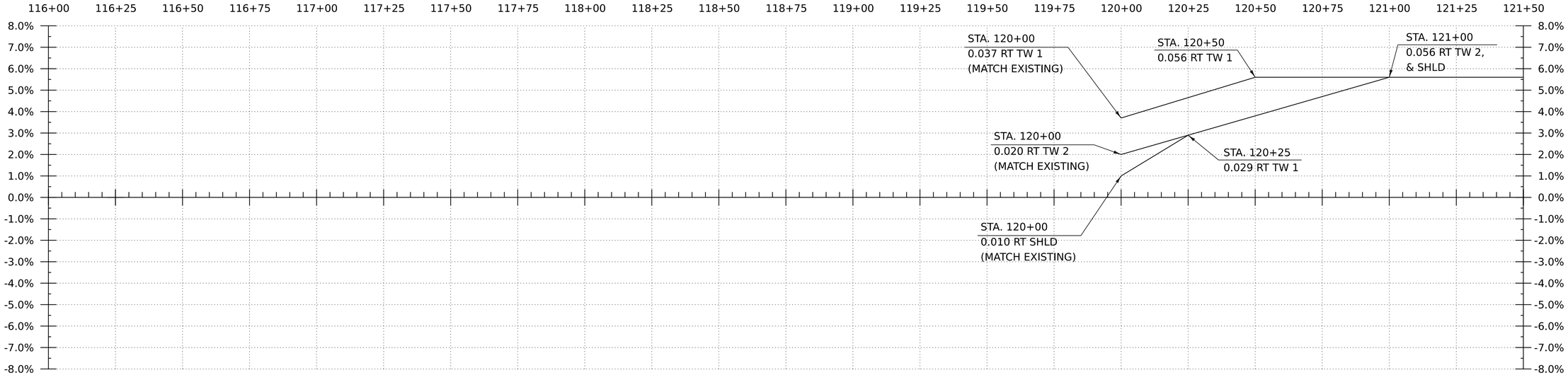
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pro_I-91_SB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	P. MCKECHNIE
DESIGNED BY:	P. MCKECHNIE	CHECKED BY:	C. HELMICK
I-91 SB ON RAMP PROFILE SHEET 1		SHEET	126 OF 922



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

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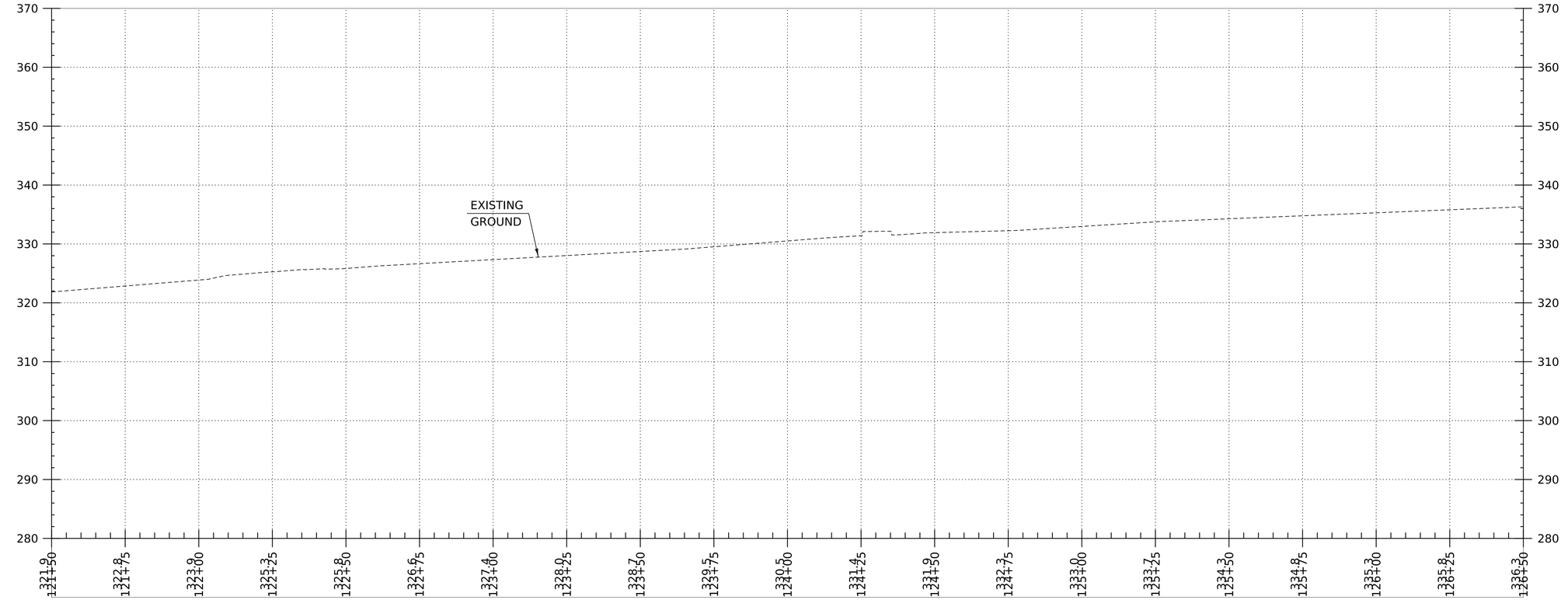
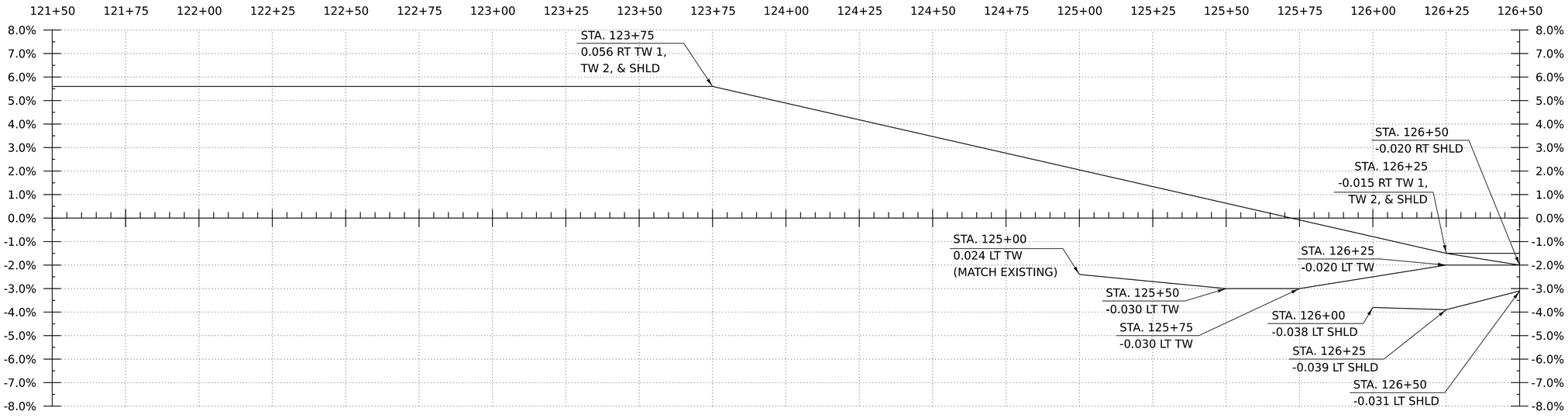
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 1	SHEET 127 OF 922



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) BANKING DIAGRAM

HORIZ:1"=20'
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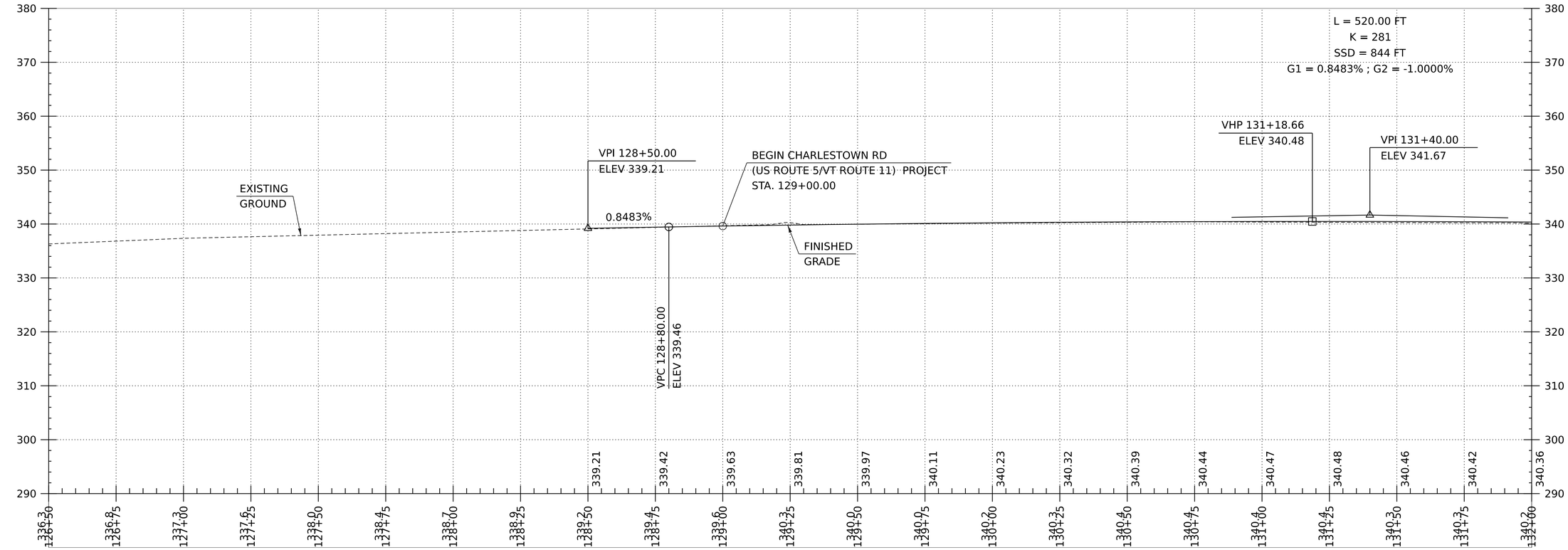
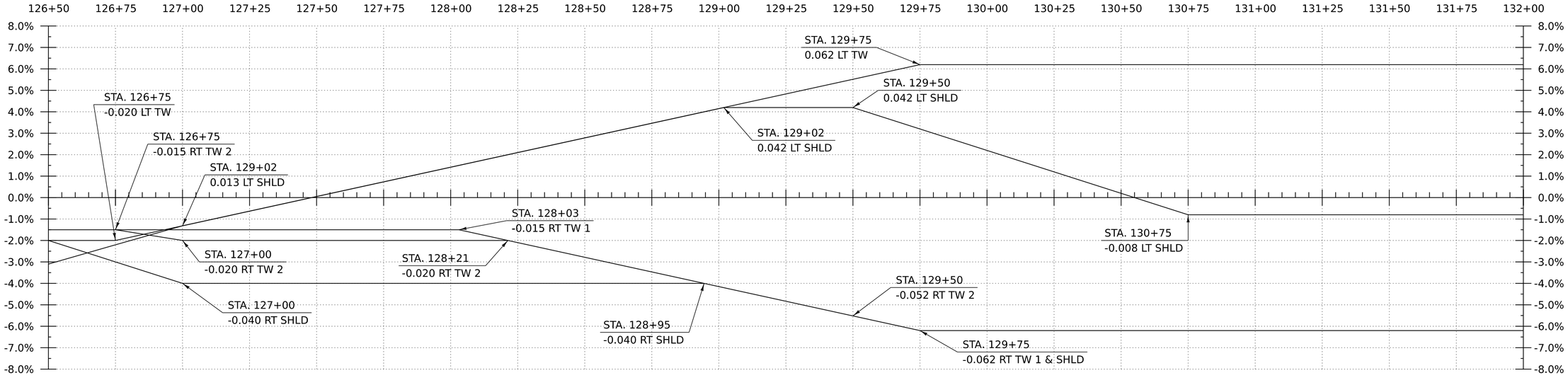
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 2	SHEET 128 OF 922



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

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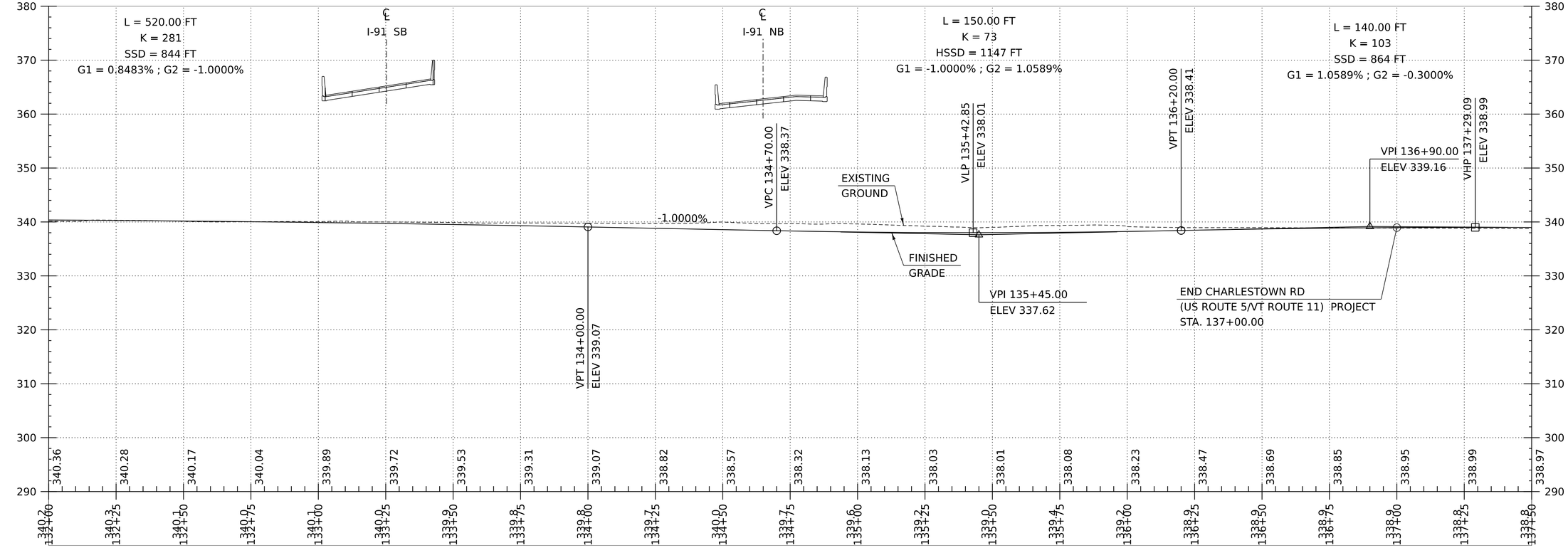
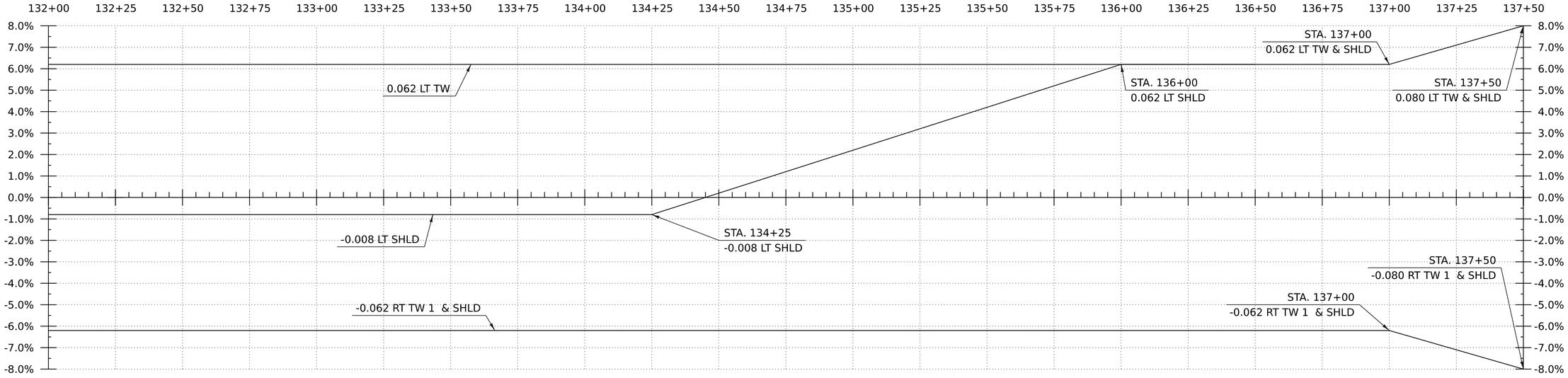
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 3	SHEET 129 OF 922



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) BANKING DIAGRAM

HORIZ:1"=20'
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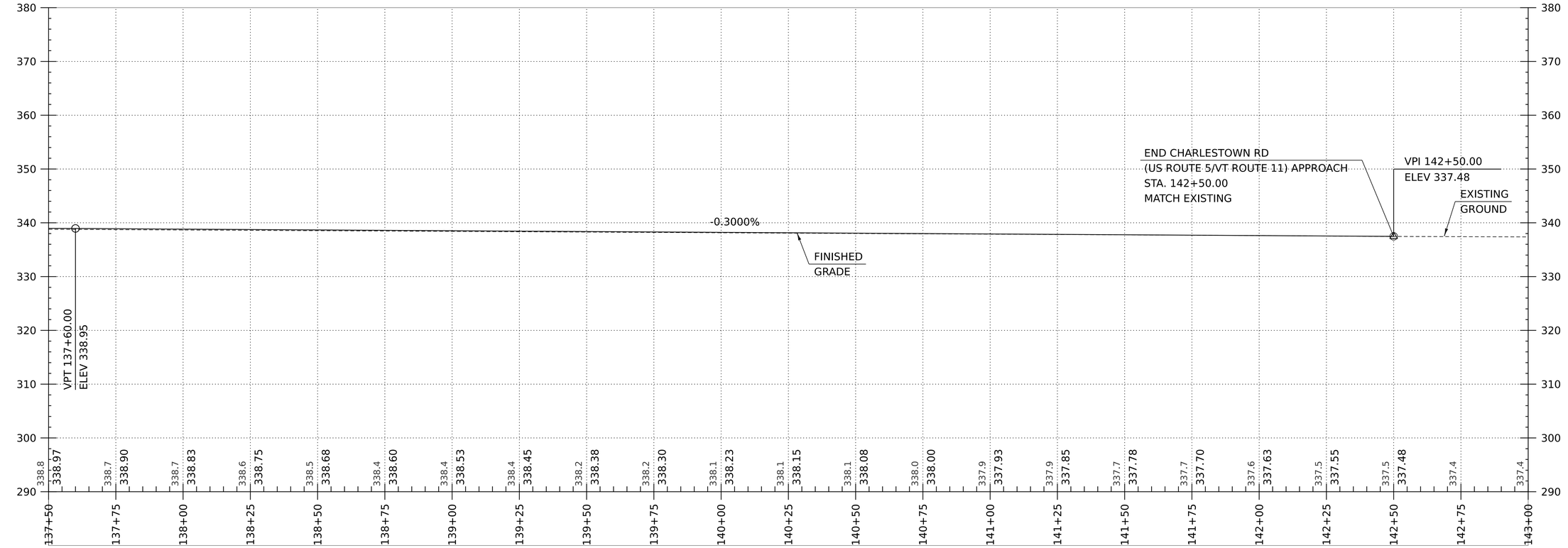
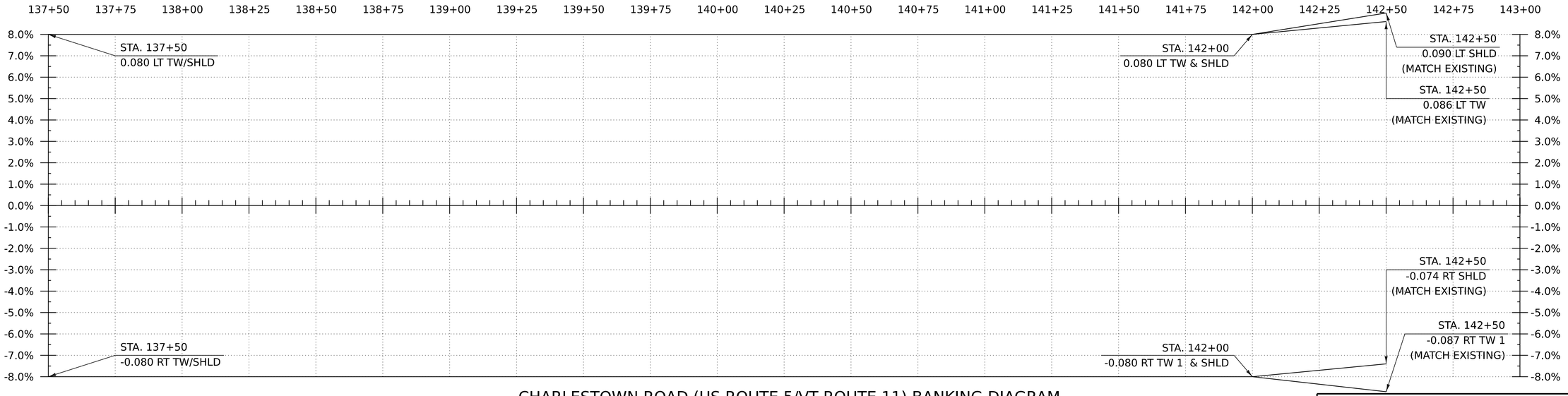
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 4	SHEET 130 OF 922



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



CHARLESTOWN ROAD (US ROUTE 5/VT ROUTE 11) BANKING DIAGRAM

HORIZ:1"=20'
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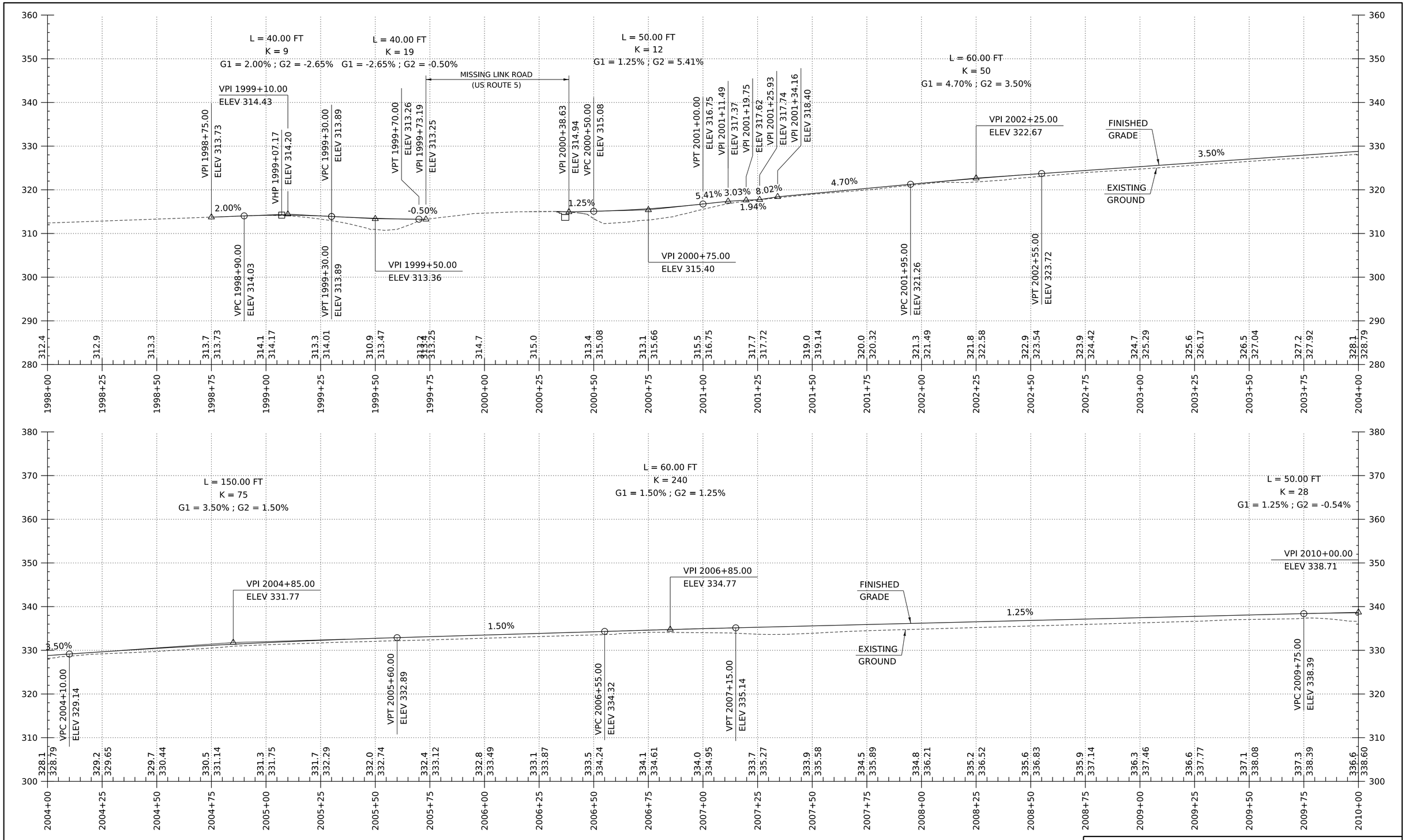
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Charlestown_RD	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
CHARLESTOWN RD PROFILE SHEET 5	SHEET 131 OF 922



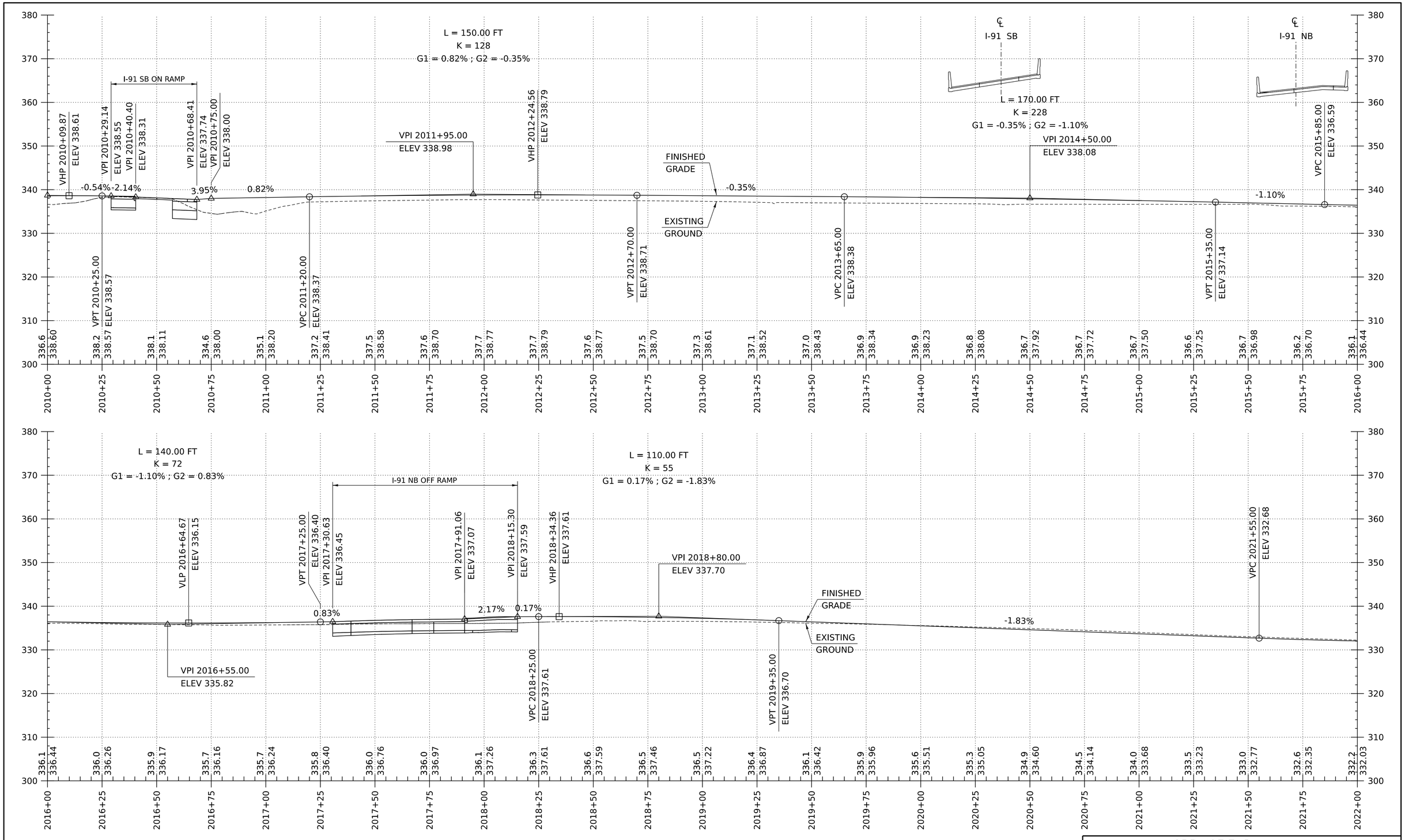
SHARED USE PATH PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_SUP.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH PROFILE SHEET 1	SHEET 132 OF 922



THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

SHARED USE PATH PROFILE

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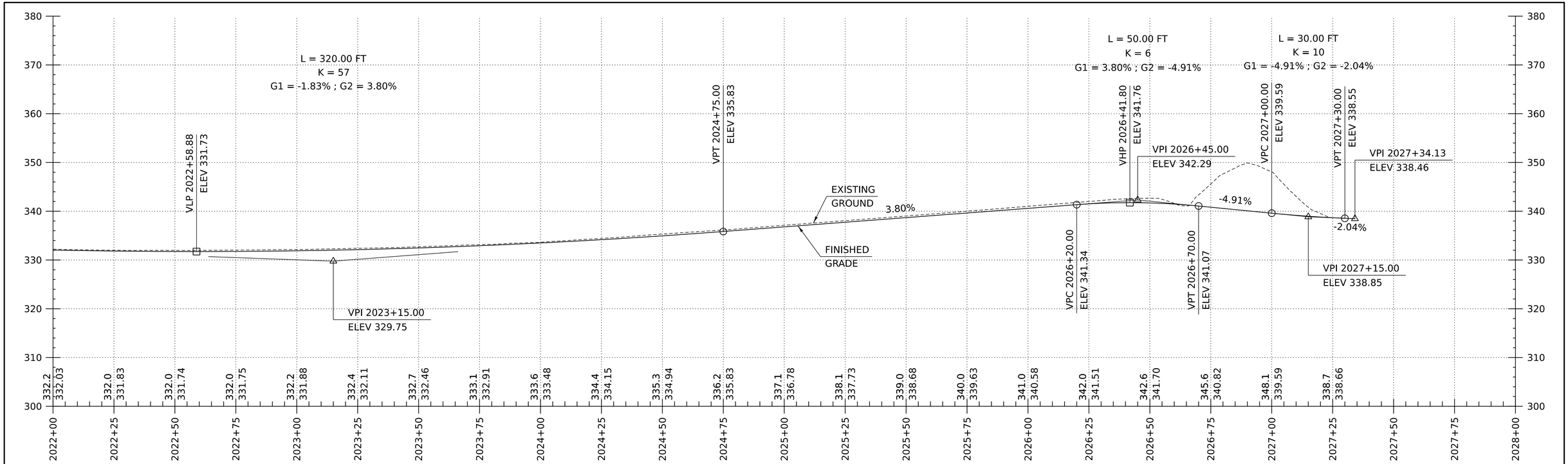
SHARED USE PATH PROFILE SHEET 2	SHEET 133 OF 922



SHARED USE PATH PROFILE

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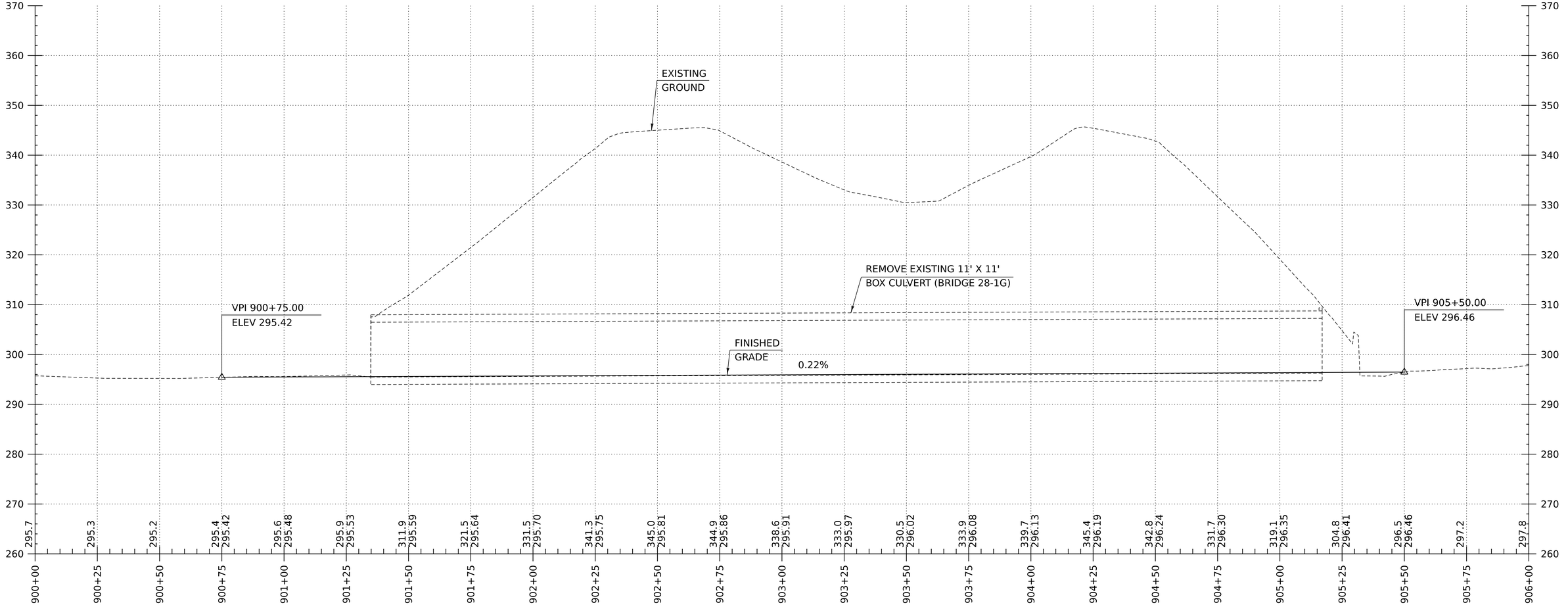
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574po_SUP.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: E. RAYMOND
DESIGNED BY: E. RAYMOND	CHECKED BY: C. HELMICK
SHARED USE PATH PROFILE SHEET 3	SHEET 134 OF 922



NOTE: BRIDGE 28-1G PROJECTED ONTO PROPOSED SPENCER BROOK PROFILE

SPENCER BROOK PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

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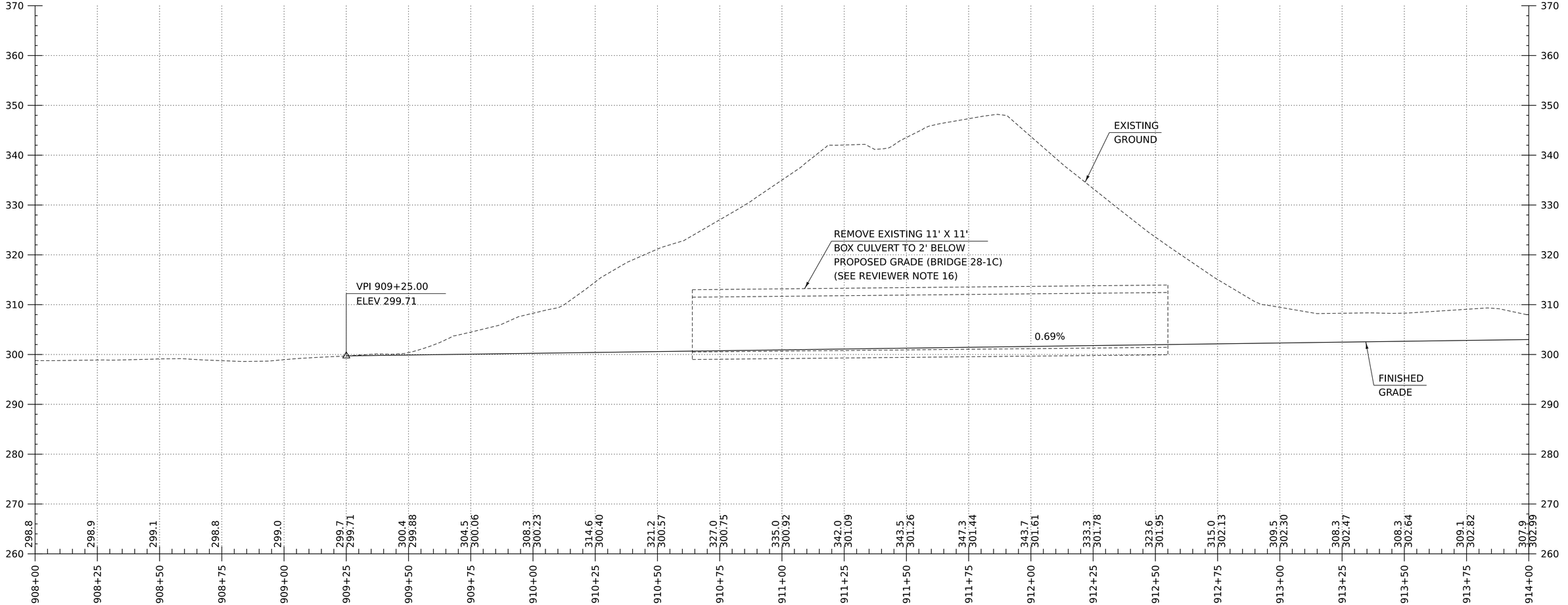
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Spencer_Brook.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
SPENCER BROOK PROFILE SHEET 1	SHEET 135 OF 922



NOTE: BRIDGE 28-1C PROJECTED ONTO PROPOSED SPENCER BROOK PROFILE

SPENCER BROOK PROFILE

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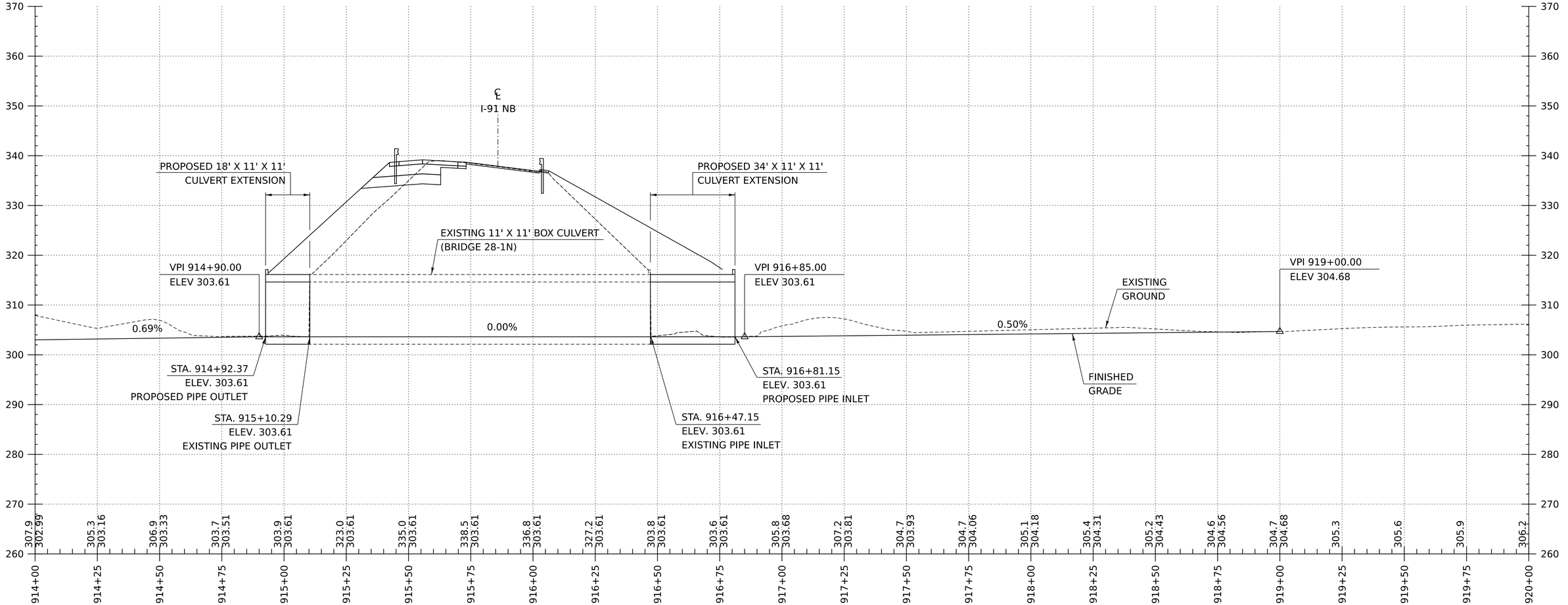
SPENCER BROOK PROFILE SHEET 2	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. SHEDD
SHEET	136 OF 922

HNTB



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SPENCER BROOK PROFILE SHEET 3	SHEET 137 OF 922

GENERAL TRAFFIC CONTROL NOTES

1. THE 11th EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE LATEST REVISIONS SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.

2. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE 11th EDITION OF THE MUTCD AND ITS LATEST REVISIONS AND CURRENT STATE STANDARDS.

3. THE BID PRICE FOR ITEM 641.1100 TRAFFIC CONTROL, ALL INCLUSIVE SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH, ON AND OFF PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.

4. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VTRANS STANDARDS.

5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS. ALL VEGETATION THAT INTERFERES WITH VISIBILITY OF THE SIGNS SHALL BE REMOVED.

6. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH WILL BE INCLUDED IN THE UNIT PRICE BID ITEM FOR ITEM 641.1100 TRAFFIC CONTROL, ALL INCLUSIVE. SIGN COVERING SHALL NOT DAMAGE THE RETROREFLECTIVITY OF THE SIGN FACE AND THE SIGN COVER SHALL NOT BE ALLOWED TO DETERIORATE FOR THE DURATION THAT THE SIGN NEEDS COVERING.

7. DIAMOND SHAPED SIGNS SHALL BE 48" X 48" WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.

8. SEE VTRANS STANDARDS T-1 AND T-10 FOR ADDITIONAL SIGN PLACEMENT DETAILS.

9. THE TEMPORARY TRAFFIC BARRIER SIDE THAT IS EXPOSED TO TRAFFIC SHALL BE DELINEATED. DELINEATION COLOR SHALL MATCH THE CORRESPONDING TEMPORARY PAVEMENT MARKING IN FRONT OF THE BARRIER. SEE VTRANS STANDARD T-13.

10. DELINEATION IS REQUIRED ALONG THE ENTIRE LENGTH OF THE CROSSOVER. INSTALL TYPE 1 DELINEATORS, WITH WHITE ON THE RIGHT AND YELLOW ON THE LEFT IN THE DIRECTION OF TRAVEL. SEE VTRANS STANDARD T-14 AND T-10 FOR PLACEMENT.

11. TEMPORARY CONCRETE BARRIER ENDS THAT ARE EXPOSED TO TRAFFIC SHALL BE PROTECTED (ATTENUATED) OR EXTENDED OUTSIDE THE CLEAR ZONE.

12. REMOVAL OF CROSSOVERS WHEN NO LONGER IN USE ARE ASSUMED AND ARE QUANTIFIED IN THE TRAFFIC CONTROL EARTHWORKS SHEETS. HOWEVER, THE CONTRACTOR MAY ELECT TO LEAVE PORTIONS OF THE CROSSOVERS IN PLACE PROVIDED THAT THE FOLLOWING CONDITIONS ARE MET: MATERIAL LEFT IN PLACE DOES NOT ALTER OR ADVERSELY AFFECT EXISTING AND PROPOSED DRAINAGE SYSTEMS, MATERIAL BE REMOVED A MINIMUM OF 4 FEET VERTICALLY OR 25 FEET HORIZONTALLY FROM THE FINAL CONDITION EDGE OF PAVEMENT, MATERIAL LEFT IN PLACE IS NOT LOCATED WITHIN A WETLAND, EXISTING PAVEMENT WITHIN THE CROSSOVERS IS REMOVED AND VEGETATION ESTABLISHED, AND WITH APPROVAL FROM THE RESIDENT ENGINEER.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE AGENCY A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING, SCHEDULE AND SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS, AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.

2. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE 11th EDITION OF THE MUTCD AND ITS LATEST REVISIONS, PART 6.

3. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES, COMMERCIAL PROPERTIES, TRANSIT STOPS, THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

4. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

5. PROVISION OF THE TPAR AND ALL ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY CURB RAMPS, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID UNDER ITEM 641.1100 TRAFFIC CONTROL, ALL INCLUSIVE.

I-91 PHASE 0 NOTES

1. PHASE 0 SHALL CONSIST OF WORK REQUIRED TO CONSTRUCT THE I-91 PHASE 1A-S CROSSOVER AND THE I-91 PHASE 1A-N CROSSOVER.

2. LANE CLOSURES OF THE I-91 NB & SB INSIDE LANES SHALL BE UTILIZED AS SHOWN ON THE PHASE 0 TRAFFIC CONTROL PLANS TO COMPLETE PHASE 0 WORK.

3. THE PHASE 1A-S CROSSOVER WILL ALSO BE USED AS THE PHASE 1B-S CROSSOVER.

4. THE PHASE 1A-N CROSSOVER WILL ALSO BE USED AS THE PHASE 1B-N CROSSOVER, PHASE 2B-S CROSSOVER, & PHASE 3B-S CROSSOVER.

I-91 PHASE 1A NOTES

1. PHASE 1A SHALL CONSIST OF BRIDGE REHABILITATION OF BRIDGE 25N, ASSOCIATED ROADWAY CONSTRUCTION REQUIRED TO COMPLETE WORK AT BRIDGE 25N, AND CLEARING, EARTHWORK, DRAINAGE INSTALLATION, AND SUBBASE PLACEMENT FOR THE PROPOSED I-91 NB ON RAMP AND I-91 NB OFF RAMP AT EXIT 7, EXTENSION OF CULVERT 28-1N AT THE INLET AND OUTLET, AND WIDENING OF THE I-91 SB ON RAMP AT EXIT 7.

2. I-91 NB SHALL UTILIZE THE I-91 PHASE 1A CROSSOVER-S & I-91 PHASE 1A-CROSSOVER-N AS SHOWN ON THE PHASE 1A TRAFFIC CONTROL PLANS TO COMPLETE WORK AT BRIDGE 25N.

3. I-91 NB SHALL UTILIZE A LANE SHIFT TOWARDS THE MEDIAN WITH 11' LANES AND SHOULDERS AS SHOWN ON THE I-91 PHASE 1A TRAFFIC CONTROL PLANS TO COMPLETE WORK AT THE PROPOSED I-91 NB ON RAMP AND I-91 NB OFF RAMP AT EXIT 7.

4. THE EXISTING I-91 NB ON RAMP AND I-91 NB OFF RAMP AT EXIT 7 SHALL REMAIN OPEN DURING THE DURATION OF PHASE 1A.

5. THE EXISTING TOONERVILLE TRAIL ALIGNMENT UNDER BRIDGES 27S & 27N SHALL REMAIN OPEN AND AVAILABLE TO PEDESTRIAN USE FOR THE DURATION OF PHASE 1A.

6. PARTIAL REALIGNMENT OF SPENCER BROOK BETWEEN STA. 22209+00 TO 22211+00 RT AND EXTENSION OF CULVERT 28-1N IS REQUIRED TO ACCOMMODATE CONSTRUCTION OF THE I-91 NB ON RAMP. TEMPORARY EARTH SUPPORT SHALL BE INSTALLED TO MAINTAIN FLOW THROUGH CULVERT 28-1C.

7. WIDENING OF THE I-91 SB ON RAMP IS REQUIRED IN PHASE 1A TO ALLOW CLOSURE OF THE I-91 SB ON SLIP RAMP FROM CHARLESTOWN ROAD. SEE CHARLESTOWN RD TRAFFIC CONTROL NOTES AND PLANS FOR ADDITIONAL INFORMATION.

I-91 PHASE 1B NOTES:

1. PHASE 1B SHALL CONSIST OF BRIDGE REHABILITATION OF BRIDGE 25S, ASSOCIATED ROADWAY CONSTRUCTION REQUIRED TO COMPLETE WORK AT BRIDGE 25S, AND CONSTRUCTION OF THE I-91 NB ON RAMP AND I-91 NB OFF RAMP AT EXIT 7, INCLUDING WORK THAT WAS NOT ABLE TO BE COMPLETED DURING PHASE 1A IN ORDER TO OPEN THE PROPOSED RAMPS TO TRAFFIC IN PHASE 2A.

2. I-91 SB SHALL UTILIZE THE I-91 PHASE 1B-CROSSOVER-S & I-91 PHASE 1B CROSSOVER-N AS SHOWN ON THE PHASE 1B TRAFFIC CONTROL PLANS TO COMPLETE WORK AT BRIDGE 25S.

3. I-91 NB SHALL REMAIN IN THE SAME CONFIGURATION AS PHASE 1A NORTH OF BRIDGE 26 EXCEPT THE OUTSIDE SHOULDER SHALL BE REDUCED TO 1' TO ALLOW WORK IN THE EXISTING SHOULDER.

4. THE EXISTING I-91 NB ON RAMP AND I-91 NB OFF RAMP AT EXIT 7 MAY BE CLOSED FROM 9:00 PM FRIDAY NIGHT THROUGH 6:00 AM MONDAY MORNING TO COMPLETE CONSTRUCTION OF THE PROPOSED I-91 NB ON RAMP AND I-91 NB OFF RAMP. THE PROPOSED RAMPS SHALL BE OPEN TO TRAFFIC WHEN THE CLOSURE ENDS. RAMP TRAFFIC SHALL BE ROUTED ALONG THE DETOUR ROUTES SHOWN IN THE DETOUR PLANS.

5. EMBANKMENT NEAR BRIDGE 27N TO COMPLETE CONSTRUCTION OF THE I-91 NB OFF RAMP MAY BE PLACED AND THE EXISTING ALIGNMENT OF THE TOONERVILLE RAIL TRAIL MAY BE CLOSED AFTER AN ALTERNATE ROUTE FOR PEDESTRIANS IS PROVIDED. SEE CHARLESTOWN ROAD TRAFFIC CONTROL PLANS AND NOTES FOR ADDITIONAL INFORMATION REGARDING PEDESTRIAN ACCOMMODATIONS DURING PHASE 1B.

6. THE TEMPORARY EARTH SUPPORT AT CULVERT 28-1C SHALL REMAIN IN PLACE DURING PHASE 1B.

I-91 PHASE 2A NOTES

1. PHASE 2A SHALL CONSIST OF REMOVAL OF THE I-91 PHASE 1A/1B CROSSOVER-S, CONSTRUCTION OF THE TEMPORARY NB OFF RAMP, TEMPORARY WIDENING ALONG I-91 SB, CONSTRUCTION OF THE PHASE 2B-CROSSOVER-N, AND ABANDONMENT OF CULVERT 28-1C, THE TEMPORARY EARTH SUPPORT AT CULVERT 28-1C, AND COMPLETION OF SPENCER BROOK RELOCATION ALONG THE I-91 NB ON RAMP.

2. LANE CLOSURES OF THE I-91 NB & SB INSIDE LANES SHALL BE UTILIZED AS SHOWN ON THE PHASE 2A TRAFFIC CONTROL PLANS TO COMPLETE PHASE 2A WORK.

3. EXTRA AVAILABLE EXCAVATION FROM THE SPENCER BROOK RELOCATION MAY BE PLACED IN THE MEDIAN OF I-91 IN ANTICIPATION FOR THE CONSTRUCTION OF THE I-91 PHASE 3B CROSSOVER-N.

4. PAVEMENT ALONG THE EXISTING TOONERVILLE RAIL TRAIL AND I-91 NB ON AND OFF RAMPS THAT ARE NO LONGER IN USE MAY BE REMOVED.

I-91 PHASE 2B NOTES

1. PHASE 2B SHALL CONSIST OF SUPERSTRUCTURE REPLACEMENT AT BRIDGE 26N, REMOVAL OF BRIDGE 27N, REPLACEMENT OF BRIDGE 28N, AND ASSOCIATED ROADWAY WORK REQUIRED TO COMPLETE CONSTRUCTION AT BRIDGES 26N, 27N, & 28N.

2. I-91 NB SHALL UTILIZE THE I-91 PHASE 2B CROSSOVER-S & I-91 PHASE 2B CROSSOVER-N TO COMPLETE WORK ON I-91 NB FROM BRIDGE 26N TO BRIDGE 28N AS SHOWN ON THE I-91 PHASE 2B TRAFFIC CONTROL PLANS.

3. TEMPORARY WIDENING TO PROVIDE AN 8' SHOULDER FOR NB TRAFFIC UTILIZING THE CROSSOVER IS SHOWN IN THE PLANS TO ALLOW FOR EMERGENCY STOPPING.

4. THE I-91 NB ON AND I-91 NB OFF RAMPS SHALL REMAIN OPEN WHILE THE CROSSOVER IS IN PLACE.

I-91 PHASE 3A NOTES

1. PHASE 3A SHALL CONSIST OF REMOVAL OF THE I-91 PHASE 2B-N CROSSOVER, CONSTRUCTION OF THE TEMPORARY I-91 SB ON RAMP, AND CONSTRUCTION OF THE I-91 PHASE 3B CROSSOVER-N.

2. LANE CLOSURES OF THE I-91 NB & SB INSIDE LANES SHALL BE UTILIZED AS SHOWN IN THE PHASE 3A TRAFFIC CONTROL PLANS TO COMPLETE PHASE 3A WORK.

I-91 PHASE 3B NOTES

1. PHASE 3B SHALL CONSIST OF SUPERSTRUCTURE REPLACEMENT AT BRIDGE 26S, REMOVAL OF BRIDGE 27S, REPLACEMENT OF BRIDGE 28S, ASSOCIATED ROADWAY WORK REQUIRED TO COMPLETE CONSTRUCTION AT BRIDGES 26S, 27S, & 28S, AND RECONSTRUCTION AND REALIGNMENT OF THE I-91 SB ON RAMP TO LENGTHEN THE ACCELERATION LANE.

2. I-91 SB SHALL UTILIZE THE I-91 PHASE 3B CROSSOVER-S & I-91 PHASE 3B CROSSOVER-N TO COMPLETE WORK ON I-91 SB FROM BRIDGE 26S TO BRIDGE 28S AS SHOWN ON THE I-91 PHASE 3B TRAFFIC CONTROL PLANS.

3. WORK TO COMPLETE A SLIVER OF I-91 SB CONSTRUCTION IN WHICH THE TEMPORARY RAMP CROSSES SHALL BE COMPLETED IN A MANNER THAT MINIMIZES IMPACTS TO I-91 SB ON RAMP TRAFFIC AND I-91 SB ON RAMP TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING PHASE 3B CONSTRUCTION.

I-91 PHASE 4A NOTES

1. PHASE 4A SHALL CONSIST OF REMOVAL OF THE REMAINING CROSSOVERS AND FINAL GRADING OF MEDIAN.

I-91 PHASE 4B NOTES

1. PHASE 4B SHALL CONSIST OF FINAL PAVING, FINAL STRIPING, AND ALL INCIDENTAL WORK REQUIRED TO COMPLETE WORK ON I-91.

2. WORK TO COMPLETE PHASE 4B SHALL UTILIZE SHOULDER CLOSURES, LANE CLOSURES AND LANE SHIFTS IN ACCORDANCE WITH MUTCD AND VTRANS STANDARDS.

HNTB

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PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574tmp_notes.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
TMP NOTES SHEET 1		SHEET 138	OF 922

CHARLESTOWN ROAD PHASE 1A NOTES

1. PHASE 1A SHALL CONSIST OF CLEARING, EARTHWORK, DRAINAGE INSTALLATION, SUBBASE PLACEMENT FOR THE PROPOSED I-91 NB ON RAMP AND I-91 NB OFF RAMP, WIDENING OF THE I-91 SB ON RAMP AT EXIT 7, AND TEMPORARY WIDENING ALONG CHARLESTOWN ROAD TO FACILITATE THE TEMPORARY PEDESTRIAN ACCESS ROUTE DURING SUBSEQUENT PHASES.

2. TEMPORARY WIDENING FROM APPROXIMATE STA. 140+50 TO 142+00 TO MAINTAIN TRAFFIC ON THE EXISTING ON RAMP AND OFF RAMP SHALL OCCUR PRIOR TO THE START OF PHASE 1A.

3. THE NB ON RAMP SLIP RAMP AND NB OFF RAMP SLIP RAMP SHALL BE CLOSED. THE ON AND OFF RAMP TRAFFIC UTILIZING THE SLIP LANES SHALL BE ROUTED TO THE INTERSECTION AT APPROXIMATE STA. 141+50 AS SHOWN IN THE CHARLESTOWN ROAD PHASE 1A PLANS.

4. TEMPORARY WIDENING OF THE I-91 SB ON RAMP IS REQUIRED IN PHASE 1A TO ALLOW FOR THE CLOSURE OF THE SB ON RAMP SLIP RAMP DURING PHASE 1B.

5. FLAGGERS SHALL BE USED TO STOP TRAFFIC AND ALLOW CONSTRUCTION VEHICLES CROSSING TRAFFIC BETWEEN THE PROPOSED I-91 NB ON RAMP AND THE PROPOSED I-91 NB OFF RAMP.

CHARLESTOWN ROAD PHASE 1B NOTES

1. PHASE 1B SHALL CONSIST OF COMPLETING WORK FOR THE PROPOSED I-91 NB ON RAMP AND I-91 NB OFF RAMP, ESTABLISHING A TEMPORARY PEDESTRIAN ACCESS ROUTE ALONG CHARLESTOWN ROAD, AND REMOVING CURBING, PAVEMENT, AND GUARDRAIL AND PLACING TEMPORARY PAVEMENT WITHIN THE EXISTING MEDIAN TO THE LIMITS SHOWN IN THE CHARLESTOWN RD PHASE 1B TRAFFIC CONTROL PLANS.

2. THE EXISTING I-91 SB ON RAMP SLIP RAMP SHALL BE CLOSED AND ON RAMP TRAFFIC FROM CHARLESTOWN RD NB SHALL BE ROUTED TO THE INTERSECTION AT APPROXIMATE STA. 129+00 AS SHOWN ON THE CHARLESTOWN RD PHASE 1B TRAFFIC CONTROL PLANS.

3. THE EXISTING OVERHEAD SIGN STRUCTURE AT STA. 124+25 SHALL BE REMOVEDWITHIN THE SAME TIME FRAME THAT THE I-91 SB ON RAMP SLIP RAMP IS CLOSED.

4. ONCE MEDIAN GUARDRAIL IS REMOVED, TEMPORARY CONCRETE BARRIER AND CRASH ATTENUATORS SHALL BE PLACED TO PROTECT THE EXISTING BRIDGE PIERS.

CHARLESTOWN ROAD PHASE 2A NOTES

1. PHASE 2A SHALL CONSIST OF REMOVING CULVERT 28-1G AND REALIGNING SPENCER BROOK FROM APPROXIMATE STA. 138+75 TO 142+50.

2. PAVEMENT SHALL BE REMOVED FROM EXISTING RAMPS THAT ARE NO LONGER IN USE DURING PHASE 2A. THE CONTRACTOR MAY CONSTRUCT THE SHARED USE PATH ALONG THE EXISTING I-91 NB ON RAMP TO YOUNGS ROAD AND OPEN IT TO PEDESTRIANS IN PHASE 2B TO SHORTEN THE LENGTH OF THE TEMPORARY PEDESTRIAN ACCESS ROUTE.

3. EXISTING GUARDRAIL BETWEEN BRIDGE 28S AND BRIDGE 28N MAY BE REMOVED TO CONSTRUCT A TEMPORARY ACCESS ROAD TO ALLOW TRANSPORT OF MATERIAL TO CONSTRUCT CROSSOVERS FOR I-91.

CHARLESTOWN ROAD PHASE 2B NOTES

1. PHASE 2B CONSIST OF DEMOLITION OF EXISTING BRIDGE 28N AND CONSTRUCTION OF THE PROPOSED BRIDGE 28N.

CHARLESTOWN ROAD PHASE 3 NOTES

1. PHASE 3 CONSIST OF DEMOLITION OF EXISTING BRIDGE 28S AND CONSTRUCTION OF THE PROPOSED BRIDGE 28S.

CHARLESTOWN ROAD PHASE 4 NOTES

1. PHASE 4 SHALL CONSIST OF RECONSTRUCTION OF CHARLESTOWN ROAD, INCLUDING DRAINAGE, CURBING, SIGNING, AND STRIPING AND CONSTRUCTION OF THE SHARED USE PATH ALONG CHARLESTOWN ROAD.

2. WORK TO COMPLETE PHASE 4 SHALL UTILIZE ALTERNATING ONE WAY TRAFFIC WITH FLAGGERS, LANE SHIFTS, AND SHOULDER CLOSURES IN ACCORDANCE WITH MUTCD AND VTRANS STANDARDS.

3. RECONSTRUCTION OF CHARLESTOWN ROAD AND CONSTRUCTION OF THE SHARED USE PATH SHALL OCCUR IN A MANNER AS TO MINIMIZE DISRUPTIONS TO PEDESTRIANS.

HNTB

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FILE NAME: z12a574tmp_notes.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TMP NOTES SHEET 2

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
I-91 PHASE 1A CROSSOVER-S (PHASE 0 CONSTRUCTION)									
4002+00		10.6		0.0		0.0			
	25		8.3						
4002+25		7.3		0.0		0.0			
	25		7.5				1.2		
4002+50		9.0		0.0		2.5			
	25		8.0				3.1		
4002+75		8.2		0.0		4.2			
	25		7.2				4.7		
4003+00		7.3		0.0		5.9			
	25		6.8				5.5		
4003+25		7.4		0.0		6.0			
	25		6.7				6.9	CUT	86
4003+50		7.0		0.0		8.8		ROCK	0
	25		6.6				8.7	R.FAC	.495
4003+75		7.2		0.0		10.0		FILL	160
	25		6.6				12.7	F.FAC	1.15
4004+00		7.0		0.0		17.5		EX. F	98
	25		6.8				48.1		
4004+25		7.6		0.0		86.3			
	25		7.2				45.1		
4004+50		7.9		0.0		11.1			
	25		7.2				11.6		
4004+75		7.7		0.0		13.9			
	25		7.2				12.8		
4005+00		7.9		0.0		13.8			
4005+00		7.9		0.0		13.8			
	25		7.4				11.9		
4005+25		8.1		0.0		11.9			
	25		7.7				10.8		
4005+50		8.6		0.0		11.4			
	25		14.2				10.4		
4005+75		22.0		0.0		11.1			
	25		23.1				9.9		
4006+00		27.9		0.0		10.3			
	25		28.4				9.0		
4006+25		33.4		0.0		9.2			
	25		36.7				4.9		
4006+50		45.8		0.0		1.4			
	25		43.3				3.5		
4006+75		47.8		0.0		6.2			
	25		53.3				5.2		
4007+00		67.4		0.0		5.0			
	25		32.0				23.1		
4007+25		1.7		0.0		45.0			
	25		34.0				23.8	CUT	782
4007+50		71.7		0.0		6.4		ROCK	0
	25		74.4				5.7	R.FAC	.495
4007+75		88.9		0.0		6.0		FILL	244
	25		77.2				7.4	F.FAC	1.15
4008+00		77.9		0.0		10.0		EX. C	502
	25		68.1				11.1		
4008+25		69.1		0.0		13.9			
	25		60.4				12.7		
4008+50		61.4		0.0		13.5			
	25		34.3				30.7		
4008+75		12.6		0.0		52.8			
	25		27.2				32.0		
4009+00		46.1		0.0		16.4			
	25		42.7				13.1		
4009+25		46.2		0.0		12.0			
	25		41.8				8.8		
4009+50		44.1		0.0		7.1			
	25		44.5				5.2		
4009+75		52.0		0.0		4.1			
	25		31.7				4.4		
4010+00		16.4		0.0		5.5			
4010+00		16.4		0.0		5.5			
	25		12.2		1.0		0.2		
4010+25		10.0		4.3		6.2			
	25		8.6		3.8		4.9		
4010+50		8.6		3.9		4.3			
	25		6.3		1.9		5.1		
4010+75		4.9		0.3		6.8			
	25		13.7		9.3		4.2		
4011+00		24.6		19.8		2.2			
	25		13.8		9.4		3.9		
4011+25		5.2		0.4		6.2			
	25		4.7		0.2		5.7		
4011+50		5.0		0.0		6.1		CUT	235
	25		4.8				4.1	ROCK	79
4011+75		5.3		0.0		2.7		R.FAC	.495
	25		5.0				5.3	FILL	46
4012+00		5.4		0.0		8.7		F.FAC	1.15
	25		8.0				8.1	EX. C	221
4012+25		11.9		0.0		8.7			

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
4012+25		11.9		6.4		4.2			
	25		17.1		6.1		0.5		
4012+50		25.0		12.9		0.0			
	25		30.4		19.0				
4012+75		40.6		28.1		0.0			
	25		32.8		20.6				
4013+00		30.2		16.4		0.0			
	25		20.2		7.6		1.3		
4013+25		13.5		0.0		2.8			
	25		12.8				1.9		
4013+50		14.1		0.0		1.3			
	25		13.6				0.6		
4013+75		15.3		0.0		0.1			
	25		12.9				0.0		
4014+00		12.5		0.0		0.0			
	25		10.2						
4014+25		9.6		0.0		0.0			
	25		8.0						
4014+50		7.6		0.0		0.0			
I-91 PHASE 1B CROSSOVER-S (PHASE 0 CONSTRUCTION)									
7001+50		0.8		0.0		0.0			
	25		1.8				0.0		
7001+75		3.0		0.0		0.0			
	25		4.8				4.1		
7002+00		7.4		0.0		8.9			
	25		6.6				8.3		
7002+25		6.9		0.0		9.0			
	25		6.3				8.2		
7002+50		6.8		0.0		8.8			
	25		6.3				9.4		
7002+75		6.7		0.0		11.6			
	25		6.3				11.9		
7003+00		6.8		0.0		14.0			
	25		6.7				12.1	CUT	105
7003+25		7.7		0.0		12.1		ROCK	0
	25		8.8				8.4	R.FAC	.495
7003+50		11.2		0.0		6.1		FILL	89
	25		11.4				4.9	F.FAC	1.15
7003+75		13.4		0.0		4.4		EX. C	3
	25		14.1				3.2		
7004+00		17.1		0.0		2.5			
	25		13.0				3.0		
7004+25		10.9		0.0		4.0			
	25		8.2				4.5		
7004+50		6.8		0.0		5.8			
	25		5.6				5.6		
7004+75		5.4		0.0		6.3			
	25		5.1				4.9		
7005+00		5.6		0.0		4.2			
7005+00		5.6		0.0		4.2			
	25		2.6						
7005+25		0.0		0.0		0.0			
	25								
7005+50		0.0		0.0		0.0			
	25								
7005+75		0.0		0.0		0.0			
	25		15.7						
7006+00		34.0		0.0		0.0			
	25		33.9		18.2		0.5		
7006+25		39.3		39.3		1.0			
	25		52.6		52.6		3.3		
7006+50		74.4		74.4		6.2			
	25		71.8		71.8		8.1		
7006+75		80.6		80.6		11.3			
	25		89.6		89.6		11.1		
7007+00		113.0		113.0		12.6			
	25		91.3		91.3		10.8		
7007+25		84.3		84.3		10.7			
	25		49.4		49.4		10.0	CUT	758
7007+50		22.5		22.5		11.0		ROCK	589
	25		13.9		10.4		10.1	R.FAC	.495
7007+75		7.5		0.0		10.8		FILL	77
	25		27.5		23.6		7.4	F.FAC	1.15
7008+00		51.9		51.0		5.1		EX. C	961
	25		61.4		60.0		3.5		
7008+25		80.8		78.5		2.4			
	25		47.0		45.7		1.9		
7008+50		20.8		20.3		1.6			
	25		50.7		42.7		0.7		
7008+75		88.8		72.0		0.0			
	25		66.5		33.3				
7009+00		54.9		0.0		0.0			
	25		35.0				0.6		
7009+25		20.8		0.0		1.3			
	25		18.2				2.2		
7009+50		18.5		0		3.5			

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
7009+50		18.5		0		3.5			
	25		16.0				3.3		
7009+75		16.0		0.0		3.6			
	25		14.3				3.3		
7010+00		14.8		0.0		3.6			
7010+00		14.8		0.0		3.6			
	25		13.5						
7010+25		14.4		0.0		2.8			
	25		12.9				2.1		
7010+50		13.5		0.0		1.7			
	25		12.4				1.1		
7010+75		13.2		0.0		0.6			
	25		12.6				0.3		
7011+00		14.0		0.0		0.0			
	25		13.1						
7011+25		14.2		0.0		0.0			
	25		11.3					CUT	110
7011+50		10.2		0.0		0.0		ROCK	0
	25		8.5					R.FAC	.495
7011+75		8.2		0.0		0.0		FILL	3
	25		6.7					F.FAC	1.15
7012+00		6.3		0.0		0.0		EX. C	106
	25		5.3						
7012+25		5.2		0.0		0.0			
	25		4.3						
7012+50		4.0		0.0		0.0			
	25		4.1						
7012+75		4.8		0.0		0.0			
	25		5.0						
7013+00		5.9		0.0		0.0			
I-91 PHASE 1A/1B CROSSOVER-N, I-91 PHASE 2A/3B CROSSOVER-S (PHASE 0 CONSTRUCTION)									
2164+25		0.0		0.0		0.0			
	25		2.3					CUT	13
2164+50		5.0		0.0		0.0		ROCK	0
	25		5.0					R.FAC	.495
2164+75		5.7		0.0		0.0		FILL	0
	25		6.2					F.FAC	1.15
2165+00		7.7		0.0		0.0		EX. C	13
2165+00		7.7		0.0		0.0			
	25		9.6						
2165+25		13.0		0.0		0.0			
	25		13.4				0.3		
2165+50		15.9		0.0		0.7			
	25		16.4				0.8		
2165+75		19.6		0.0		1.0			
	25		19.3				1.3		
2166+00		22.1		0.0		1.8			
	25		20.9				2.3		
2166+25		23.0		0.0		3.1			
	25		20.9				3.8		
2166+50		22.1		0.0		5.0			
	25		19.9				6.3		
2166+75		20.8		0.0		8.5			
	25		21.0				8.6		
2167+00		24.5		0.0		10.1			
	25		21.9				11.6		
2167+25		22.9		0.0		15.0			
	25		19.7				16.0	CUT	360
2167+50		19.7		0.0		19.6		ROCK	0
	25		18.0				18.8	R.FAC	.495
2167+75		19.2		0.0		21.1		FILL	246
	25		17.6				19.6	F.FAC	1.15
2168+00		18.9		0.0		21.3		EX. C	77
	25		17.7				19.6		
2168+25		19.4		0.0		21.1			
	25		17.8				19.7		
2168+50		19.1		0.0		21.5			
	25		17.4				19.9		
2168+75		18.5		0.0		21.5			
	25		17.2				20.5		
2169+00		18.7		0.0		22.8			
	25		17.4				21.6		
2169+25		18.9		0.0		23.9			
	25		17.6				20.2		
2169+50		19.2		0.0		19.7			
	25		17.9				17.9		
2169+75		19.4		0.0		19.0			
	25		18.7				17.2		
2170+00		20.9		0.0		18.1			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
I-91 PHASE 1A CROSSOVER-S (PHASE 0 CONSTRUCTION)								
4002+00	4005+00	86	0	160		98		98
4005+00	4010+00	782	0	244	502		404	
4010+00	4014+50	235	79	46	221		625	
I-91 PHASE 1B CROSSOVER-N (PHASE 0 CONSTRUCTION)								
7001+50	7005+00	105	0	89	3		3	
7005+00	7010+00	758	589	77	961		964	
7010+00	7013+00	110	0	3	106		1070	
I-91 PHASE 1A/1B CROSSOVER-N, I-91 PHASE 2A/3B CROSSOVER-S (PHASE 0 CONSTRUCTION)								
2164+25	2165+00	13	0	0	13		3	
2165+00	2170+00	360	0	246	77		81	
2170+00	2175+00	373	0	250	86		166	
2175+00	2176+00	58	0	0	58		225	

REMARKS

EARTH AND ROCK EXCAVATION		
SOLID ROCK EXCAVATION		
EARTH EXCAVATION		
PLANIMETERED FILL		
LESS FACTORED SOLID ROCK		
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		
NET PLANIMETERED FILL		
FACTOR		
PLANIMETERED FILL INCLUDING FACTOR		
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		
CHANNEL EXCAVATION		
UNDERDRAIN EXCAVATION		
STRUCTURE EXCAVATION		
TOTAL MATERIAL AVAILABLE FOR FILL		
TOTAL FILL INCLUDING FACTOR		
TOTAL MATERIAL FOR FILL		
BORROW		
EXCESS EXCAVATION		

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ews_tcp
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 TRAFFIC CONTROL EARTHWORKS 1

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 140 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
2170+00		20.9		0.0		18.1			
	25		19.6						
2170+25		21.4		0.0		17.9			
	25		18.9				16.8		
2170+50		19.5		0.0		18.3			
	25		18.1				17.0		
2170+75		19.6		0.0		18.5			
	25		18.2				17.1		
2171+00		19.8		0.0		18.4			
	25		18.4				16.9		
2171+25		19.9		0.0		18.0			
	25		18.3				16.6		
2171+50		19.6		0.0		17.8			
	25		18.2				16.8		
2171+75		19.7		0.0		18.4			
	25		18.1				17.1		
2172+00		19.3		0.0		18.6			
	25		18.9				17.3		
2172+25		21.5		0.0		18.8			
	25		21.4				17.8	CUT	373
2172+50		24.8		0.0		19.7		ROCK	0
	25		22.9				18.6	R.FAC	.495
2172+75		24.6		0.0		20.4		FILL	250
	25		20.3				19.1	F.FAC	1.15
2173+00		19.3		0.0		20.8		EX. C	86
	25		17.5				19.1		
2173+25		18.5		0.0		20.4			
	25		17.1				16.2		
2173+50		18.4		0.0		14.6			
	25		17.3				11.1		
2173+75		19.0		0.0		9.4			
	25		17.6				6.7		
2174+00		19.1		0.0		5.0			
	25		17.7				3.5		
2174+25		19.1		0.0		2.6			
	25		17.8				1.6		
2174+50		19.3		0.0		0.9			
	25		18.1				0.5		
2174+75		19.8		0.0		0.2			
	25		18.8				0.1		
2175+00		20.7		0.0		0.0			
2175+00		20.7		0.0		0.0			
	25		18.8					CUT	58
2175+25		19.8		0.0		0.0		ROCK	0
	25		15.8					R.FAC	.495
2175+50		14.4		0.0		0.0		FILL	0
	50		23.9					F.FAC	1.15
2176+00		11.4		0.0		0.0		EX. C	58
I-91 PHASE 1A CROSSOVER-S REMOVAL (PHASE 2A CONSTRUCTION)									
4002+00		0.0		0.0		0.0			
	25		0.1						
4002+25		0.2		0.0		0.0			
	25		2.1						
4002+50		4.3		0.0		0.0			
	25		5.6						
4002+75		7.8		0.0		0.0			
	25		8.8						
4003+00		11.2		0.0		0.0			
	25		11.0						
4003+25		12.6		0.0		0.0			
	25		14.2					CUT	265
4003+50		18.1		0.0		0.0		ROCK	0
	25		18.5					R.FAC	.495
4003+75		21.9		0.0		0.0		FILL	0
	25		24.7					F.FAC	1.15
4004+00		31.4		0.0		0.0		EX. C	265
	25		59.6						
4004+25		97.3		0.0		0.0			
	25		58.3						
4004+50		28.7		0.0		0.0			
	25		29.3						
4004+75		34.6		0.0		0.0			
	25		32.5						
4005+00		35.5		0.0		0.0			
4005+00		35.5		0.0		0.0			
	25		33.6						
4005+25		37.0		0.0		0.0			
	25		35.0						
4005+50		38.7		0.0		0.0			
	25		36.3						
4005+75		39.6		0.0		0.0			
	25		36.5						
4006+00		39.3		0.0		0.0			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
4006+00		39.3		0.0		0.0			
	25		33.9						
4006+25		34.0		0.0		0.0			
	25		24.9						
4006+50		19.8		0.0		0.0			
	25		23.0						
4006+75		29.9		0.0		0.0			
	25		26.9						
4007+00		28.1		0.0		0.0			
	25		53.8						
4007+25		88.2		0.0		0.0			
	25		52.1					CUT	607
4007+50		24.3		0.0		0.0		ROCK	0
	25		20.7					R.FAC	.495
4007+75		20.5		0.0		0.0		FILL	0
	25		20.5					F.FAC	1.15
4008+00		23.8		0.0		0.0		EX. C	607
	25		23.0						
4008+25		25.8		0.0		0.0			
	25		22.1						
4008+50		22.0		0.0		0.0			
	25		20.0						
4008+75		21.3		0.0		0.0			
	25		28.7						
4009+00		40.6		0.0		0.0			
	25		35.6						
4009+25		36.2		0.0		0.0			
	25		30.6						
4009+50		29.9		0.0		0.0			
	25		25.4						
4009+75		25.0		0.0		0.0			
	25		24.4						
4010+00		27.7		0.0		0.0			
4010+00		27.7		0.0		0.0			
	25		28.6						
4010+25		34.0		0.0		0.0			
	25		29.0						
4010+50		28.7		0.0		0.0			
	25		26.7						
4010+75		28.9		0.0		0.0			
	25		23.3						
4011+00		21.5		0.0		0.0			
	25		21.3						
4011+25		24.6		0.0		0.0			
	25		22.5						
4011+50		24.1		0.0		0.0			
	25		20.8						
4011+75		20.9		0.0		0.0			
	25		21.3						
4012+00		25.1		0.0		0.0			
	25		20.4					CUT	250
4012+25		18.9		0.0		0.0		ROCK	0
	25		10.6					R.FAC	.495
4012+50		4.1		0.0		0.0		FILL	0
	25		2.9					F.FAC	1.15
4012+75		2.2		0.0		0.0		EX. C	250
	25		2.3						
4013+00		2.7		0.0		0.0			
	25		5.8						
4013+25		9.8		0.0		0.0			
	25		7.2						
4013+50		5.8		0.0		0.0			
	25		3.9						
4013+75		2.6		0.0		0.0			
	25		1.9						
4014+00		1.5		0.0		0.0			
	25		1.1						
4014+25		0.8		0.0		0.0			
	25		0.5						
4014+50		0.2		0.0		0.0			
I-91 PHASE 1B CROSSOVER-S REMOVAL (PHASE 2A CONSTRUCTION)									
7001+50		0.1		0.0		0.0			
	25		0.1						
7001+75		0.1		0.0		0.0			
	25		5.5						
7002+00		11.8		0.0		0.0			
	25		11.9						
7002+25		13.8		0.0		0.0			
	25		13.5						
7002+50		15.3		0.0		0.0		CUT	239
	25		16.4					ROCK	0
7002+75		20.2		0.0		0.0		R.FAC	0
	25		20.6					FILL	0
7003+00		24.3		0.0		0.0		F.FAC	1
	25		22.2					EX. C	239
7003+25		23.6		0.0		0.0			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
	25		19.7						
7003+50		19.0		0.0		0.0			
	25		18.9						
7003+75		21.8		0.0		0.0			
	25		19.4						
7004+00		20.2		0.0		0.0			
	25		20.5						
7004+25		24.0		0.0		0.0			
	25		24.2						
7004+50		28.2		0.0		0.0			
	25		25.2						
7004+75		26.2		0.0		0.0			
	25		20.8						
7005+00		18.8		0.0		0.0			
7005+00		18.8		0.0		0.0			
	25		8.7						
7005+25		0.0		0.0		0.0			
	25								
7005+50		0.0		0.0		0.0			
	25								
7005+75		0.0		0.0		0.0			
	25								
7006+00		0.0		0.0		0.0			
	25		0.5						
7006+25		1.0		0.0		0.0			
	25		3.0						
7006+50		5.5		0.0		0.0			
	25		9.0						
7006+75		13.9		0.0		0.0			
	25		15.4						
7007+00		19.3		0.0		0.0			
	25		19.2						
7007+25		22.2		0.0		0.0			
	25		27.0					CUT	256
7007+50		36.2		0.0		0.0		ROCK	0
	25		38.1					R.FAC	.495
7007+75		46.0		0.0		0.0		FILL	0
	25		31.4					F.FAC	1.15
7008+00		21.9		0.0		0.0		EX. C	256
	25		17.0						
7008+25		14.8		0.0		0.0			
	25		19.6						
7008+50		27.5		0.0		0.0			
	25		13.4						
7008+75		1.5		0.0		0.0			
	25		1.0						
7009+00		0.6		0.0		0.0			
	25		7.3						
7009+25		15.1		0.0		0.0			
	25		14.8						
7009+50		16.9		0.0		0.0			
	25		15.7						
7009+75		17.1		0.0		0.0			
	25		15.4						
7010+00		16.1		0.0		0.0			
7010+00		16.1		0.0		0.0			
	25		13.6						
7010+25		13.2		0.0		0.0			
	25		11.1						
7010+50		10.8		0.0		0.0			
	25		8.6						
7010+75		7.8		0.0		0.0			
	25		5.2						
7011+00		3.5		0.0		0.0			
	25		2.6						
7011+25		2.2		0.0		0.0			
	25		1.7					CUT	45
7011+50		1.4		0.0		0.0		ROCK	0
	25		1.0					R.FAC	.495
7011+75		0.7		0.0		0.0		FILL	0
	25		0.5					F.FAC	1.15
7012+00		0.3		0.0		0.0		EX. C	45
	25		0.2						
7012+25		0.2		0.0		0.0			
	25		0.1						
7012+50		0.1		0.0		0.0			
	25		0.0						
7012+75		0.0		0.0		0.0			
	25								
7013+00		0.0		0.0		0.0			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
I-91 PHASE 1A CROSSOVER-S REMOVAL (PHASE 2A CONSTRUCTION)								
4002+00	4005+00	265	0	0	265		265	
4005+00	4010+00	607	0	0	607		872	
4010+00	4014+50	250	0	0	250		1122	
I-91 PHASE 1B CROSSOVER-S REMOVAL (PHASE 2A CONSTRUCTION)								
7001+50	7005+00	239	0	0	239		239	
7005+00	7010+00	256	0	0	256		495	
7010+00	7013+00	45	0	0	45		540	

REMARKS

EARTH AND ROCK EXCAVATION	
SOLID ROCK EXCAVATION	
EARTH EXCAVATION	
PLANIMETERED FILL	
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	
FACTOR	
PLANIMETERED FILL INCLUDING FACTOR	
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION	
STRUCTURE EXCAVATION	
TOTAL MATERIAL AVAILABLE FOR FILL	
TOTAL FILL INCLUDING FACTOR	
TOTAL MATERIAL FOR FILL	
BORROW	
EXCESS EXCAVATION	

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ews_tcp
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 TRAFFIC CONTROL EARTHWORKS 2

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 141 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
TEMPORARY I-91 NB OFF RAMP (PHASE 2A CONSTRUCTION)									
5000+50		10.9		0.0		0.1			
	25		9.7						
5000+75		10.1		0.0		3.1			
	25		9.0				4.4		
5001+00		9.4		0.0		6.4			
	25		8.6				6.9		
5001+25		9.1		0.0		8.6			
	25		8.4				8.5		
5001+50		9.1		0.0		9.8			
	25		8.2				9.4		
5001+75		8.6		0.0		10.4			
	25		8.6				10.9		
5002+00		9.9		0.0		13.1			
	25		8.8				11.6		
5002+25		9.2		0.0		11.9			
	25		4.3				5.5		
5002+50		0.0		0.0		0.0			
	25							CUT	112
5002+75		0.0		0.0		0.0		ROCK	0
	25		4.2				5.5	R.FAC	.495
5003+00		9.1		0.0		11.8		FILL	124
	25		6.3				10.0	F.FAC	1.15
5003+25		4.4		0.0		9.9		EX. F	31
	25		3.1				9.3		
5003+50		2.3		0.0		10.2			
	25		2.0				9.5		
5003+75		2.1		0.0		10.3			
	25		2.5				9.2		
5004+00		3.2		0.0		9.6			
	25		3.7				7.9		
5004+25		4.8		0.0		7.4			
	25		5.4				6.0		
5004+50		6.9		0.0		5.5			
	25		8.4				4.8		
5004+75		11.3		0.0		4.9			
	25		10.4				4.4		
5005+00		11.2		0.0		4.5			
5005+00		11.2		0.0		4.5			
	25		10.6						
5005+25		11.7		0.0		3.7			
	25		10.9				2.8		
5005+50		11.9		0.0		2.3		CUT	55
	25		10.9				1.3	ROCK	0
5005+75		11.7		0.0		0.6		R.FAC	.495
	25		11.0				0.3	FILL	4
5006+00		12.1		0.0		0.0		F.FAC	1.15
	25		11.7					EX. C	50
5006+25		13.1		0.0		0.0			
TEMPORARY I-91 SB WIDENING (PHASE 2A CONSTRUCTION)									
12185+00		0.0		0.0		0.0			
	25		1.9						
12185+25		4.2		0.0		0.0			
	25		5.8						
12185+50		8.3		0.0		0.0			
	25		8.3						
12185+75		9.7		0.0		0.0			
	25		9.4						
12186+00		10.7		0.0		0.0			
	25		9.8						
12186+25		10.5		0.0		0.0			
	25		9.7						
12186+50		10.5		0.0		0.0			
	25		10.1						
12186+75		11.4		0.0		0.0			
	25		10.8						
12187+00		12.0		0.0		0.0			
	25		11.2						
12187+25		12.2		0.0		0.0			
	25		11.4					CUT	211
12187+50		12.4		0.0		0.0		ROCK	0
	25		11.4					R.FAC	.495
12187+75		12.2		0.0		0.0		FILL	0
	25		11.3					F.FAC	1.15
12188+00		12.1		0.0		0.0		EX. C	211
	25		11.3						
12188+25		12.2		0.0		0.0			
	25		11.3						
12188+50		12.1		0.0		0.0			
	25		11.6						
12188+75		12.9		0.0		0.0			
	25		12.2						
12189+00		13.4		0.0		0.0			
	25		12.6						
12189+25		13.9		0.0		0.0			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
	25		12.9						
12189+50		13.9		0.0		0.0			
	25		14.1						
12189+75		16.5		0.0		0.0			
	25		14.1						
12190+00		13.9		0.0		0.0			
12190+00		13.9		0.0		0.0			
	25		12.9						
12190+25		14.0		0.0		0.0			
	25		9.2					CUT	28
12190+50		5.9		0.0		0.0		ROCK	0
	25		4.1					R.FAC	.495
12190+75		3.0		0.0		0.0		FILL	0
	25		1.4					F.FAC	1.15
12191+00		0.0		0.0		0.0		EX. C	28
I-91 PHASE 2B CROSSOVER-N (PHASE 2A CONSTRUCTION)									
6000+50		0.0		0.0		0.0			
	25								
6000+75		0.0		0.0		0.0			
	25						0.1		
6001+00		0.0		0.0		0.3			
	25						0.1		
6001+25		0.0		0.0		0.0			
	25						0.6		
6001+50		0.0		0.0		1.4			
	25						4.4		
6001+75		0.0		0.0		8.0			
	25						13.2		
6002+00		0.0		0.0		20.6			
	25						40.2		
6002+25		0.0		0.0		66.2			
	25		0.5				65.2		
6002+50		1.1		0.0		74.7			
	25		3.0				79.0	CUT	101
6002+75		5.4		0.0		95.9		ROCK	0
	25		5.8				105.0	R.FAC	.495
6003+00		7.1		0.0		131.0		FILL	754
	25		6.9				159.4	F.FAC	1.15
6003+25		7.7		0.0		213.3		EX. F	766
	25		4.0				150.1		
6003+50		0.9		0.0		110.9			
	25		0.7				82.3		
6003+75		0.6		0.0		66.8			
	25		2.5				41.8		
6004+00		4.7		0.0		23.4			
	25		5.0				11.8		
6004+25		6.2		0.0		2.0			
	25		12.1				0.9		
6004+50		20.0		0.0		0.0			
	25		24.0						
6004+75		31.9		0.0		0.0			
	25		36.8						
6005+00		47.6		0.0		0.0			
6005+00		47.6		0.0		0.0			
	25		43.0						
6005+25		45.2		0.0		0.0			
	25		39.5						
6005+50		40.1		0.0		0.0			
	25		60.8				2.5		
6005+75		91.2		0.0		5.5			
	25		61.3				13.8		
6006+00		41.2		0.0		24.2			
	25		19.1				93.8		
6006+25		0.0		0.0		178.3			
	25						210.5		
6006+50		0.0		0.0		276.4			
	25						277.3		
6006+75		0.0		0.0		322.5			
	25						343.3		
6007+00		0.0		0.0		419.1			
	25						471.0		
6007+25		0.0		0.0		598.2			
	25						654.5		
6007+50		0.0		0.0		815.5		CUT	225
	25						827.4	ROCK	0
6007+75		0.0		0.0		971.7		R.FAC	.495
	25						878.1	FILL	7751
6008+00		0.0		0.0		925.1		F.FAC	1.15
	25						804.8	EX. F	8688
6008+25		0.0		0.0		813.3			
	25						699.6		
6008+50		0.0		0.0		697.9			
	25						597.1		
6008+75		0.0		0.0		591.8			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.	AREA S.F.	VOLUME C.Y.
6008+75		0.0		0.0		591.8			
	25		0.2				496.2		
6009+00		0.4		0.0		480.0			
	25		0.2				386.5		
6009+25		0.0		0.0		354.9			
	25						317.1		
6009+50		0.0		0.0		330.0			
	25						321.4		
6009+75		0.0		0.0		364.2			
	25		1.1				355.8		
6010+00		2.3		0.0		404.3			
6010+00		2.3		0.0		404.3			
	25		2.6						
6010+25		3.4		0.0		399.3			
	25		3.7				344.1		
6010+50		4.5		0.0		343.9			
	25		5.3				296.2		
6010+75		7.0		0.0		295.8			
	25		6.9				256.6		
6011+00		7.8		0.0		258.4			
	25		7.5				223.5		
6011+25		8.4		0.0		224.3			
	25		8.1				192.2		
6011+50		9.2		0.0		190.8			
	25		8.5				158.3		
6011+75		9.1		0.0		151.1			
	25		8.4				129.6		
6012+00		9.0		0.0		128.8			
	25		7.8				109.1		
6012+25		7.8		0.0		106.8		CUT	125
	25		7.0				90.7	ROCK	0
6012+50		7.3		0.0		89.1		R.FAC	.495
	25		6.8				72.6	FILL	2013
6012+75		7.3		0.0		67.7		F.FAC	1.15
	25		6.9				55.2	EX. F	2190
6013+00		7.6		0.0		51.6			
	25		7.1				42.8		
6013+25		7.7		0.0		40.9			
	25		6.8				30.8		
6013+50		7.0		0.0		25.6			
	25		6.6				11.9		
6013+75		7.2		0.0		0.0			
	25		7.0						
6014+00		7.9		0.0		0.0			
	25		6.6						
6014+25		6.3		0.0		0.0			
	25		5.8						
6014+50		6.2		0.0		0.0			
	25		5.8						
6014+75		6.4		0.0		0.0			
TEMPORARY I-91 NB OFF RAMP REMOVAL (PHASE 3A CONSTRUCTION)									
5000+50		3.9		0.0		0.0			
	25		7.2						
5000+75		11.7		0.0		0.0			
	25		14.4						
5001+00		19.5		0.0		0.0			
	25		21.0						
5001+25		25.9		0.0		0.0			
	25		25.6						
5001+50		29.4		0.0		0.0			
	25		28.6						
5001+75		32.4		0.0		0.0			
	25		35.5						
5002+00		44.2		0.0		0.0			
	25		39.6						
5002+25		41.4		0.0		0.0			
	25		24.1						
5002+50		10.6		0.0		0.0			
	25		10.4					CUT	537
5002+75		11.8		0.0		0.0		ROCK	0
	25		30.7					R.FAC	.495
5003+00		54.5		0.0		0.0		FILL	0
	25		50.3					F.FAC	1.15
5003+25		54.1		0.0		0.0		EX. C	537
	25		49.3						
5003+50		52.3		0.0		0.0			
	25		46.4						
5003+75		48.0		0.0		0.0			
	25		43.0						
5004+00		44.8		0.0		0.0			
	25		37.9						
5004+25		37.1		0.0		0.0			
	25		30.8						
5004+50		29.5		0.0		0.0			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
TEMPORARY I-91 NB OFF RAMP (PHASE 2A CONSTRUCTION)								
5000+50	5005+00	112	0	124		31		31
5005+00	5006+25	55	0	4	50		19	
TEMPORARY I-91 SB WIDENING (PHASE 2A CONSTRUCTION)								
12185+00	12190+00	211	0	0	211		211	
12190+00	12191+00	28	0	0	28		239	
I-91 PHASE 2B CROSSOVER-N (PHASE 2A CONSTRUCTION)								
6000+50	6005+00	101	0	754		766		766
6005+00	6010+00	225	0	7751		8688		9454
6010+00	6014+75	125	0	2013		2190		11645
TEMPORARY I-91 NB OFF RAMP REMOVAL (PHASE 3A CONSTRUCTION)								
5000+50	5005+00	537	0	0	537		537	
5005+00	5006+25	14	0	0	14		551	

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ews_tcp
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 TRAFFIC CONTROL EARTHWORKS 3

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 142 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
5004+50		29.5		0.0		0.0			
	25		24.2						
5004+75		22.7		0.0		0.0			
	25		17.7						
5005+00		15.5		0.0		0.0			
5005+00		15.5		0.0		0.0			
	25		10.6						
5005+25		7.5		0.0		0.0			
	25		3.5						
5005+50		0.0		0.0		0.0		CUT	14
	25							ROCK	0
5005+75		0.0		0.0		0.0		R.FAC	.495
	25							FILL	0
5006+00		0.0		0.0		0.0		F.FAC	1.15
	25							EX. C	14
5006+25		0.0		0.0		0.0			
TEMPORARY I-91 SB WIDENING REMOVAL (PHASE 3A CONSTRUCTION)									
12185+00		0.0		0.0		0.0			
	25		0.3						
12185+25		0.7		0.0		0.0			
	25		2.1						
12185+50		3.8		0.0		0.0			
	25		4.1						
12185+75		5.0		0.0		0.0			
	25		5.0						
12186+00		5.7		0.0		0.0			
	25		5.3						
12186+25		5.7		0.0		0.0			
	25		5.4						
12186+50		5.9		0.0		0.0			
	25		5.4						
12186+75		5.8		0.0		0.0			
	25		4.7						
12187+00		4.3		0.0		0.0			
	25		3.9						
12187+25		4.1		0.0		0.0			
	25		3.7					CUT	63
12187+50		3.9		0.0		0.0		ROCK	0
	25		3.8					R.FAC	.495
12187+75		4.2		0.0		0.0		FILL	0
	25		3.8					F.FAC	1.15
12188+00		4.1		0.0		0.0		EX. C	63
	25		3.6						
12188+25		3.6		0.0		0.0			
	25		3.0						
12188+50		2.9		0.0		0.0			
	25		2.5						
12188+75		2.6		0.0		0.0			
	25		2.2						
12189+00		2.2		0.0		0.0			
	25		1.9						
12189+25		1.8		0.0		0.0			
	25		1.3						
12189+50		1.0		0.0		0.0			
	25		0.7						
12189+75		0.5		0.0		0.0			
	25		0.4						
12190+00		0.3		0.0		0.0			
12190+00		0.3		0.0		0.0			
	25		0.1						
12190+25		0.0		0.0		0.0		CUT	0
	25							ROCK	0
12190+50		0.0		0.0		0.0		R.FAC	0
	25							FILL	0
12190+75		0.0		0.0		0.0		F.FAC	1.15
	25							EX. C	0
12191+00		0.0		0.0		0.0			
I-91 PHASE 2B CROSSOVER-N REMOVAL (PHASE 3A CONSTRUCTION)									
6000+50		0.1		0.0		0.0			
	25		0.5						
6000+75		1.0		0.0		0.0			
	25		1.9						
6001+00		3.0		0.0		0.0			
	25		2.8						
6001+25		3.0		0.0		0.0			
	25		5.3						
6001+50		8.4		0.0		0.0			
	25		12.3						
6001+75		18.1		0.0		0.0			
	25		25.0						
6002+00		35.9		0.0		0.0			
	25		57.6						
6002+25		88.5		0.0		0.0			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
6002+25		88.5		0.0		0.0			
	25		116.8						
6002+50		163.7		0.0		0.0			
	25		159.9					CUT	1327
6002+75		181.6		0.0		0.0		ROCK	0
	25		189.0					R.FAC	.495
6003+00		226.7		0.0		0.0		FILL	0
	25		222.5					F.FAC	1.15
6003+25		253.8		0.0		0.0		EX. C	1327
	25		191.2						
6003+50		159.2		0.0		0.0			
	25		128.1						
6003+75		117.6		0.0		0.0			
	25		87.4						
6004+00		71.1		0.0		0.0			
	25		55.0						
6004+25		47.8		0.0		0.0			
	25		36.3						
6004+50		30.5		0.0		0.0			
	25		22.9						
6004+75		19.0		0.0		0.0			
	25		12.3						
6005+00		7.6		0.0		0.0			
6005+00		7.6		0.0		0.0			
	25		7.6						
6005+25		8.8		0.0		0.0			
	25		10.1						
6005+50		13.1		0.0		0.0			
	25		8.2						
6005+75		4.6		0.0		0.0			
	25		2.1						
6006+00		0.0		0.0		0.0			
	25								
6006+25		0.0		0.0		0.0			
	25		16.0						
6006+50		34.6		0.0		0.0			
	25		103.4						
6006+75		188.7		0.0		0.0			
	25		230.0						
6007+00		308.0		0.0		0.0			
	25		369.4						
6007+25		489.9		0.0		0.0			
	25		525.9						
6007+50		646.1		0.0		0.0		CUT	6911
	25		698.7					ROCK	0
6007+75		863.1		0.0		0.0		R.FAC	.495
	25		811.8					FILL	0
6008+00		890.3		0.0		0.0		F.FAC	1.15
	25		806.4					EX. C	6911
6008+25		851.5		0.0		0.0			
	25		741.4						
6008+50		750.0		0.0		0.0			
	25		645.6						
6008+75		644.4		0.0		0.0			
6008+75		533.3		0.0		0.0			
	25		437.8						
6009+00		412.4		0.0		0.0			
	25		378.3						
6009+25		404.7		0.0		0.0			
	25		357.3						
6009+50		367.0		0.0		0.0			
	25		361.0						
6009+75		412.8		0.0		0.0			
	25		400.2						
6010+00		451.7		0.0		0.0			
6010+00		451.7		0.0		0.0			
	25		413.2						
6010+25		440.9		0.0		0.0			
	25		379.9						
6010+50		379.7		0.0		0.0			
	25		327.0						
6010+75		326.6		0.0		0.0			
	25		283.4						
6011+00		285.5		0.0		0.0			
	25		247.2						
6011+25		248.5		0.0		0.0		CUT	2657
	25		213.4					ROCK	0
6011+50		212.5		0.0		0.0		R.FAC	.495
	25		177.0					FILL	0
6011+75		169.9		0.0		0.0		F.FAC	1.15
	25		145.9					EX. C	2657
6012+00		145.3		0.0		0.0			
	25		123.4						
6012+25		121.2		0.0		0.0			

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
6012+25		121.2		0.0		0.0			
	25		103.0						
6012+50		101.2		0.0		0.0			
	25		82.8						
6012+75		77.6		0.0		0.0			
	25		63.3						
6013+00		59.1		0.0		0.0			
	25		48.8						
6013+25		46.3		0.0		0.0			
	25		34.8						
6013+50		28.8		0.0		0.0			
	25		13.4						
6013+75		0.2		0.0		0.0			
	25		0.1						
6014+00		0.0		0.0		0.0			
	25								
6014+25		0.0		0.0		0.0			
	25								
6014+50		0.0		0.0		0.0			
	25								
6014+75		0.0		0.0		0.0			
TEMPORARY I-91 SB ON RAMP (PHASE 3A CONSTRUCTION)									
7998+75		5.3		0.0		0.0			
	25		5.5						
7999+00		6.5		0.0		0.0			
	25		9.5						
7999+25		14.1		0.0		0.0		CUT	51
	25		12.5					ROCK	0
7999+50		12.8		0.0		0.0		R.FAC	.495
	25		11.7					FILL	0
7999+75		12.5		0.0		0.0		F.FAC	1.15
	25		11.3					EX. C	51
8000+00		12.0		0.0		0.0			
8000+00		12.0		0.0		0.0			
	25		11.0						
8000+25		11.7		0.0		0.0			
	25		10.6						
8000+50		11.3		0.0		0.0			
	25		10.6						
8000+75		11.5		0.0		0.0			
	25		10.5				0.2		
8001+00		11.1		0.0		0.4			
	25		10.1				1.7		
8001+25		10.8		0.0		3.3			
	25		9.9				4.1		
8001+50		10.6		0.0		5.5			
	25		9.7				5.1		
8001+75		10.4		0.0		5.6			
	25		9.6				5.2		
8002+00		10.4		0.0		5.7			
	25		9.9				5.6		
8002+25		10.9		0.0		6.3			
	25		10.5				5.6	CUT	209
8002+50		11.7		0.0		5.7		ROCK	0
	25		10.0				4.4	R.FAC	.495
8002+75		9.9		0.0		3.8		FILL	38
	25		9.4				3.0	F.FAC	1.15
8003+00		10.3		0.0		2.7		EX. C	165
	25		10.0				2.0		
8003+25		11.3		0.0		1.6			
	25		10.4				1.0		
8003+50		11.2		0.0		0.6			
	25		10.1				0.3		
8003+75		10.7		0.0		0.1			
	25		10.0				0.0		
8004+00		11.0		0.0		0.0			
	25		10.6						
8004+25		11.8		0.0		0.0			
	25		11.5						
8004+50		13.0		0.0		0.0			
	25		12.3						
8004+75		13.6		0.0		0.0			
	25		12.6						
8005+00		13.7		0.0		0.0			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
TEMPORARY I-91 SB WIDENING REMOVAL (PHASE 3A CONSTRUCTION)								
12185+00	12190+00	63	0	0	63		63	
12190+00	12191+00	0	0	0	0		63	
I-91 PHASE 2B CROSSOVER-N REMOVAL (PHASE 3A CONSTRUCTION)								
6000+50	6005+00	1327	0	0	1327		1327	
6005+00	6010+00	6911	0	0	6911		8238	
6010+00	6014+75	2657	0	0	2657		10894	
TEMPORARY I-91 SB ON RAMP (PHASE 3A CONSTRUCTION)								
7998+75	8000+00	51	0	0	51		51	
8000+00	8005+00	209	0	38	165		216	

REMARKS

	EARTH AND ROCK EXCAVATION
	SOLID ROCK EXCAVATION
	EARTH EXCAVATION
	PLANIMETERED FILL
	LESS FACTORED SOLID ROCK
	LESS DISPLACEMENT OF ANY LARGE STRUCTURES
	NET PLANIMETERED FILL
	FACTOR
	PLANIMETERED FILL INCLUDING FACTOR
	MATERIALS AVAILABLE FOR FILLS
	EARTH EXCAVATION
	CHANNEL EXCAVATION
	UNDERDRAIN EXCAVATION
	STRUCTURE EXCAVATION
	TOTAL MATERIAL AVAILABLE FOR FILL
	TOTAL FILL INCLUDING FACTOR
	TOTAL MATERIAL FOR FILL
	BORROW
	EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ews_tcp
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 TRAFFIC CONTROL EARTHWORKS 4

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 143 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
8005+00		13.7		0.0		0.0			
	25		12.8						
8005+25		13.9		0.0		0.0			
	25		13.2						
8005+50		14.7		0.0		0.0			
	25		10.0						
8005+75		6.8		0.0		0.0			
	25		3.2						
8006+00		0.2		0.0		0.0			
	25		0.4						
8006+25		0.7		0.0		0.0			
	25		0.5						
8006+50		0.3		0.0		0.0			
	25		0.1						
8006+75		0.0		0.0		0.0			
	25								
8007+00		0.0		0.0		0.0			
	25								
8007+25		0.0		0.0		0.0			
	25						0.6	CUT	82
8007+50		0.0		0.0		1.2		ROCK	0
	25						2.1	R.FAC	.495
8007+75		0.0		0.0		3.4		FILL	58
	25		1.6				15.3	F.FAC	1.15
8008+00		3.4		0.0		29.7		EX. C	16
	25		1.9				26.3		
8008+25		0.8		0.0		27.2			
	25		1.9				13.0		
8008+50		3.2		0.0		0.9			
	25		1.5				0.4		
8008+75		0.0		0.0		0.0			
	25								
8009+00		0.0		0.0		0.0			
	25		6.3						
8009+25		13.7		0.0		0.0			
	25		10.8						
8009+50		9.7		0.0		0.0			
	25		9.9						
8009+75		11.6		0.0		0.0			
	25		8.1						
8010+00		5.8		0.0		0.0			

I-91 PHASE 3B CROSSOVER-N (PHASE 3A CONSTRUCTION)

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
9001+00		0.0		0.0		0.0			
	25								
9001+25		0.0		0.0		0.0			
	25						0.0		
9001+50		0.0		0.0		0.1			
	25						0.5		
9001+75		0.0		0.0		0.9			
	25						1.6		
9002+00		0.0		0.0		2.6			
	25						4.6		
9002+25		0.0		0.0		7.4			
	25						11.3		
9002+50		0.0		0.0		17.0			
	25						23.9		
9002+75		0.0		0.0		34.6			
	25						42.8	CUT	0
9003+00		0.0		0.0		57.8		ROCK	0
	25						67.3	R.FAC	.495
9003+25		0.0		0.0		87.6		FILL	1402
	25						94.9	F.FAC	1.15
9003+50		0.0		0.0		117.4		EX. F	1612
	25						124.0		
9003+75		0.0		0.0		150.4			
	25						153.2		
9004+00		0.0		0.0		180.5			
	25						182.5		
9004+25		0.0		0.0		213.7			
	25						213.3		
9004+50		0.0		0.0		247.1			
	25						235.8		
9004+75		0.0		0.0		262.2			
	25						246.0		
9005+00		0.0		0.0		269.1			
9005+00		0.0		0.0		269.1			
	25								
9005+25		0.0		0.0		277.3			
	25						254.9		
9005+50		0.0		0.0		273.2			
	25		9.2				232.2		
9005+75		19.9		0.0		228.4			
	25		20.6				173.8		
9006+00		24.7		0.0		147.0			
	25		11.4				109.1		
9006+25		0.0		0.0		88.7			

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
9006+25		0.0		0.0		88.7			
	25						219.4		
9006+50		0.0		0.0		385.3			
	25						594.8		
9006+75		0.0		0.0		899.4			
	25						1034.0		
9007+00		0.0		0.0		1334.1			
	25						1386.3		
9007+25		0.0		0.0		1660.2			
	25						1658.5	CUT	48
9007+50		0.0		0.0		1922.1		ROCK	0
	25						1811.0	R.FAC	.495
9007+75		0.0		0.0		1989.7		FILL	19984
	25						1842.3	F.FAC	1.15
9008+00		0.0		0.0		1989.7		EX. F	22934
	25						1799.4		
9008+25		0.0		0.0		1896.9			
	25						1683.8		
9008+50		0.0		0.0		1740.1			
	25						1553.3		
9008+75		0.0		0.0		1615.0			
	25						1419.8		
9009+00		0.0		0.0		1451.7			
	25						1277.0		
9009+25		0.0		0.0		1306.6			
	25						1129.6		
9009+50		0.0		0.0		1133.4			
	25		1.2				977.2		
9009+75		2.5		0.0		977.4			
	25		5.4				827.7		
9010+00		9.2		0.0		810.4			
9010+00		9.2		0.0		810.4			
	25		8.3						
9010+25		8.7		0.0		655.1			
	25		7.6				551.1		
9010+50		7.7		0.0		535.3			
	25		7.0				455.6		
9010+75		7.4		0.0		448.9			
	25		6.7				384.3		
9011+00		7.1		0.0		381.1			
	25		6.3				330.4		
9011+25		6.6		0.0		332.5			
	25		6.2				305.0		
9011+50		6.8		0.0		326.2			
	25		6.2				295.2	CUT	87
9011+75		6.6		0.0		311.5		ROCK	0
	25		5.6				296.9	R.FAC	.495
9012+00		5.6		0.0		329.8		FILL	3816
	25		5.3				292.8	F.FAC	1.15
9012+25		5.8		0.0		302.6		EX. F	4301
	25		5.7				255.0		
9012+50		6.5		0.0		248.3			
	25		5.9				219.5		
9012+75		6.3		0.0		225.8			
	25		5.7				158.0		
9013+00		6.0		0.0		115.5			
	25		5.4				102.2		
9013+25		5.7		0.0		105.3			
	25		5.3				169.8		
9013+50		5.7		0.0		261.5			

I-91 PHASE 1A CROSSOVER-N REMOVAL (PHASE 4A CONSTRUCTION)

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
2164+25		0.0		0.0		0.0		CUT	1
	25		0.1					ROCK	0
2164+50		0.2		0.0		0.0		R.FAC	.495
	25		0.2					FILL	0
2164+75		0.3		0.0		0.0		F.FAC	1.15
	25		0.4					EX. C	1
2165+00		0.6		0.0		0.0			
2165+00		0.6		0.0		0.0			
	25		0.8						
2165+25		1.2		0.0		0.0			
	25		2.3						
2165+50		3.8		0.0		0.0			
	25		4.4						
2165+75		5.7		0.0		0.0			
	25		7.0						
2166+00		9.5		0.0		0.0			
	25		10.3						
2166+25		12.8		0.0		0.0			
	25		14.5						
2166+50		18.6		0.0		0.0			
	25		21.0						
2166+75		26.8		0.0		0.0			
	25		26.0						
2167+00		29.3		0.0		0.0			

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA	TOTAL EXCAVATION EARTH AND ROCK VOLUME	ROCK EXCAVATION AREA	ROCK EXCAVATION VOLUME	EMBANKMENT AREA	EMBANKMENT VOLUME	AREA	VOLUME
	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.
2167+00		29.3		0.0		0.0			
	25		32.0						
2167+25		39.9		0.0		0.0			
	25		42.9					CUT	843
2167+50		52.7		0.0		0.0		ROCK	0
	25		52.4					R.FAC	.495
2167+75		60.4		0.0		0.0		FILL	0
	25		58.8					F.FAC	1.15
2168+00		66.7		0.0		0.0		EX. C	843
	25		63.9						
2168+25		71.4		0.0		0.0			
	25		68.2						
2168+50		75.9		0.0		0.0			
	25		72.1						
2168+75		79.9		0.0		0.0			
	25		74.6						
2169+00		81.2		0.0		0.0			
	25		75.7						
2169+25		82.3		0.0		0.0			
	25		74.2						
2169+50		78.0		0.0		0.0			
	25		71.9						
2169+75		77.2		0.0		0.0			
	25		70.3						
2170+00		74.6		0.0		0.0			
2170+00		74.6		0.0		0.0			
	25		68.6						
2170+25		73.6		0.0		0.0			
	25		69.4						
2170+50		76.3		0.0		0.0			
	25		70.8						
2170+75		76.7		0.0		0.0			
	25		70.6						
2171+00		75.9		0.0		0.0			
	25		70.0						
2171+25		75.3		0.0		0.0			
	25		69.7						
2171+50		75.3		0.0		0.0			
	25		70.0						
2171+75		76.0		0.0		0.0			
	25		67.0						
2172+00		68.8		0.0		0.0			
	25		60.4						
2172+25		61.7		0.0		0.0			
	25		53.6					CUT	942
2172+50		54.1		0.0		0.0		ROCK	0
	25		48.1					R.FAC	.495
2172+75		49.9		0.0		0.0		FILL	0
	25		46.7					F.FAC	1.15
2173+00		51.0		0.0		0.0		EX. C	942
	25		45.3						
2173+25		46.9		0.0		0.0			
	25		38.8						
2173+50		37.0		0.0		0.0			
	25		29.9						
2173+75		27.6		0.0		0.0			
	25		22.0						
2174+00		19.9		0.0		0.0			
	25		15.9						
2174+25		14.5		0.0		0.0			
	25		11.4						
2174+50		10.1		0.0		0.0			
	25		7.9						
2174+75		6.9		0.0		0.0			
	25		5.1						
2175+00		4.1		0.0		0.0			
2175+00		4.1							
	25		3.1					CUT	6
2175+25		2.7						ROCK	0
	25		1.9					R.FAC	.495
2175+50		1.4						FILL	0
	25		0.8					F.FAC	1.15
2175+75		0.4						EX. C	6
	25		0.2						
2176+00		0.0							

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
I-91 PHASE 3B CROSSOVER-N (PHASE 3A CONSTRUCTION)								
9001+00	9005+00	0	0	1402		1612		1612
9005+00	9010+00	48	0	19984		22934		24546
9010+00	9013+50	87	0	3816		4301		28847
I-91 PHASE 1A CROSSOVER-N REMOVAL (PHASE 4A CONSTRUCTION)								
2164+25	2165+00	1	0	0	1		1	
2165+00	2170+00	843	0	0	843		845	
2170+00	2175+00	942	0	0	942		1786	
2175+00	2176+00	6	0	0	6		1792	

REMARKS

EARTH AND ROCK EXCAVATION		
SOLID ROCK EXCAVATION		
EARTH EXCAVATION		
PLANIMETERED FILL		
LESS FACTORED SOLID ROCK		
LESS DISPLACEMENT OF ANY LARGE STRUCTURES		
NET PLANIMETERED FILL		
FACTOR		
PLANIMETERED FILL INCLUDING FACTOR		
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION		
CHANNEL EXCAVATION		
UNDERDRAIN EXCAVATION		
STRUCTURE EXCAVATION		
TOTAL MATERIAL AVAILABLE FOR FILL		
TOTAL FILL INCLUDING FACTOR		
TOTAL MATERIAL FOR FILL		
BORROW		
EXCESS EXCAVATION		

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ews_tcp
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 TRAFFIC CONTROL EARTHWORKS 5

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 144 OF 922

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
TEMPORARY I-91 SB ON RAMP REMOVAL (PHASE 4A CONSTRUCTION)									
7998+75		0.0		0.0		0.0			
	25		0.0						
7999+00		0.1		0.0		0.0			
	25		0.3						
7999+25		0.6		0.0		0.0		CUT	6
	25		0.9					ROCK	0
7999+50		1.4		0.0		0.0		R.FAC	.495
	25		1.9					FILL	0
7999+75		2.7		0.0		0.0		F.FAC	1.15
	25		3.2					EX. C	6
8000+00		4.3		0.0		0.0			
I-91 PHASE 3B CROSSOVER-N REMOVAL (PHASE 4A CONSTRUCTION)									
8000+00		4.3		0.0		0.0			
	25		4.9						
8000+25		6.2		0.0		0.0			
	25		6.9						
8000+50		8.7		0.0		0.0			
	25		9.7						
8000+75		12.2		0.0		0.0			
	25		13.3						
8001+00		16.5		0.0		0.0			
	25		16.9						
8001+25		19.9		0.0		0.0			
	25		20.0						
8001+50		23.2		0.0		0.0			
	25		21.5						
8001+75		23.2		0.0		0.0			
	25		21.4						
8002+00		23.1		0.0		0.0			
	25		21.6						
8002+25		23.5		0.0		0.0			
	25		20.8					CUT	286
8002+50		21.5		0.0		0.0		ROCK	0
	25		19.3					R.FAC	.495
8002+75		20.1		0.0		0.0		FILL	0
	25		17.9					F.FAC	1.15
8003+00		18.6		0.0		0.0		EX. C	286
	25		16.2						
8003+25		16.4		0.0		0.0			
	25		14.1						
8003+50		14.1		0.0		0.0			
	25		12.2						
8003+75		12.2		0.0		0.0			
	25		10.4						
8004+00		10.3		0.0		0.0			
	25		9.5						
8004+25		10.3		0.0		0.0			
	25		9.3						
8004+50		9.8		0.0		0.0			
	25		9.7						
8004+75		11.2		0.0		0.0			
	25		10.6						
8005+00		11.8		0.0		0.0			
8005+00		11.8		0.0		0.0			
	25		10.8						
8005+25		11.5		0.0		0.0			
	25		10.6						
8005+50		11.3		0.0		0.0			
	25		10.1						
8005+75		10.5		0.0		0.0			
	25		9.3						
8006+00		9.5		0.0		0.0			
	25		8.7						
8006+25		9.2		0.0		0.0			
	25		4.4						
8006+50		0.2		0.0		0.0			
	25		4.3						
8006+75		9.1		0.0		0.0			
	25		9.8						
8007+00		12.1		0.0		0.0			
	25		15.0						
8007+25		20.2		0.0		0.0			
	25		25.6					CUT	287
8007+50		35.2		0.0		0.0		ROCK	0
	25		34.0					R.FAC	.495
8007+75		38.3		0.0		0.0		FILL	0
	25		48.0					F.FAC	1.15
8008+00		65.4		0.0		0.0		EX. C	287
	25		54.4						
8008+25		52.2		0.0		0.0			
	25		26.6						
8008+50		5.3		0.0		0.0			
	25		2.5						
8008+75		0.0		0.0		0.0			
	25								
8009+00		0.0		0.0		0.0			
	25								
8009+00		0.0		0.0		0.0			
	25								
8009+25		0.0		0.0		0.0			
	25								
8009+50		8.3		0.0		0.0			
	25								
8009+75		5.4		0.0		0.0			
	25								
8010+00		0.0		0.0		0.0			
I-91 PHASE 3B CROSSOVER-N REMOVAL (PHASE 4A CONSTRUCTION)									
9001+00		1.6		0.0		0.0			
	25		2.2						
9001+25		3.2		0.0		0.0			
	25		5.3						
9001+50		8.2		0.0		0.0			
	25		9.6						
9001+75		12.5		0.0		0.0			
	25		14.2						
9002+00		18.2		0.0		0.0			
	25		21.6						
9002+25		28.4		0.0		0.0			
	25		34.1						
9002+50		45.3		0.0		0.0			
	25		54.0						
9002+75		71.3		0.0		0.0			
	25		81.1					CUT	1908
9003+00		103.9		0.0		0.0		ROCK	0
	25		111.4					R.FAC	.495
9003+25		136.7		0.0		0.0		FILL	0
	25		140.5					F.FAC	1.15
9003+50		166.7		0.0		0.0		EX. C	1908
	25		169.4						
9003+75		199.3		0.0		0.0			
	25		199.4						
9004+00		231.3		0.0		0.0			
	25		229.5						
9004+25		264.5		0.0		0.0			
	25		260.4						
9004+50		297.9		0.0		0.0			
	25		282.8						
9004+75		313.0		0.0		0.0			
	25		293.0						
9005+00		319.9		0.0		0.0			
	25		300.0						
9005+00		319.9		0.0		0.0			
	25		301.9						
9005+25		328.2		0.0		0.0			
	25		283.7						
9005+50		324.0		0.0		0.0			
	25		275.5						
9005+75		288.7		0.0		0.0			
	25		344.8						
9006+00		306.3		0.0		0.0			
	25		504.8						
9006+25		438.5		0.0		0.0			
	25		802.6						
9006+50		651.9		0.0		0.0			
	25		1229.9						
9006+75		1081.8		0.0		0.0			
	25		1645.6						
9007+00		1574.7		0.0		0.0			
	25		1914.4						
9007+25		1979.7		0.0		0.0			
	25		1975.5						
9007+50		2155.3		0.0		0.0			
	25		1929.9						
9007+75		2111.7		0.0		0.0			
	25		1853.9						
9008+00		2056.8		0.0		0.0			
	25		1730.8						
9008+25		1947.7		0.0		0.0			
	25		1600.6						
9008+50		1790.8		0.0		0.0			
	25		1467.7						
9008+75		1666.4		0.0		0.0			
	25		1325.5						
9009+00		1503.8		0.0		0.0			
	25		1178.0						
9009+25		1359.2		0.0		0.0			
	25		1022.8						
9009+50		1185.3		0.0		0.0			
	25		867.8						
9009+75		1024.0		0.0		0.0			
	25								
9010+00		850.4		0.0		0.0			
	25		712.7						
9010+25		689.0		0.0		0.0			
	25		580.6						
9010+50		565.0		0.0		0.0			
	25		481.3						
9010+75		474.7		0.0		0.0			
	25		406.7						
9011+00		403.8		0.0		0.0			
	25		350.6						
9011+25		353.4		0.0		0.0			
	25		323.4						
9011+50		345.2		0.0		0.0			
	25		312.0					CUT	4735
9011+75		328.8		0.0		0.0		ROCK	0
	25		312.5					R.FAC	.495
9012+00		346.3		0.0		0.0		FILL	0
	25		307.1					F.FAC	1.15
9012+25		317.0		0.0		0.0		EX. C	4735
	25		267.2						
9012+50		260.2		0.0		0.0			
	25		229.7						
9012+75		236.0		0.0		0.0			
	25		166.7						
9013+00		124.1		0.0		0.0			
	25		109.6						
9013+25		112.6		0.0		0.0			
	25		174.8						
9013+50		264.9		0.0		0.0			

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
TEMPORARY I-91 SB ON RAMP REMOVAL (PHASE 4A CONSTRUCTION)								
7998+75	8000+00	6	0	0	6		6	
8000+00	8005+00	286	0	0	286		293	
8005+00	8010+00	287	0	0	287		579	
I-91 PHASE 3B CROSSOVER-N REMOVAL (PHASE 4A CONSTRUCTION)								
9001+00	9005+00	1908	0	0	1908		1908	
9005+00	9010+00	22556	0	0	22556		24464	
9010+00	9013+50	4735	0	0	4735		29199	

REMARKS

EARTH AND ROCK EXCAVATION
SOLID ROCK EXCAVATION
EARTH EXCAVATION

PLANIMETERED FILL
LESS FACTORED SOLID ROCK
LESS DISPLACEMENT OF ANY LARGE STRUCTURES
NET PLANIMETERED FILL
FACTOR
PLANIMETERED FILL INCLUDING FACTOR

MATERIALS AVAILABLE FOR FILLS
EARTH EXCAVATION
CHANNEL EXCAVATION
UNDERDRAIN EXCAVATION
STRUCTURE EXCAVATION

TOTAL MATERIAL AVAILABLE FOR FILL

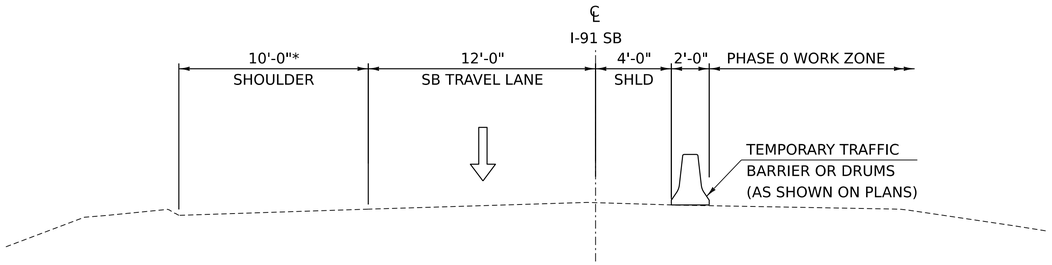
TOTAL FILL INCLUDING FACTOR
TOTAL MATERIAL FOR FILL
BORROW
EXCESS EXCAVATION

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ews_tcp
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 TRAFFIC CONTROL EARTHWORKS 6

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 145 OF 922

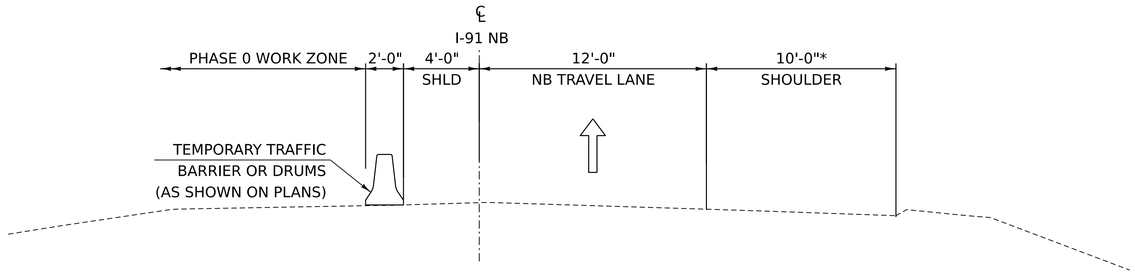


*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
3'-0" SHOULDER ON BRIDGE 25S

I-91 SB PHASE 0 CONSTRUCTION

STA. 12146+50 - STA. 12175+00

SCALE: ¼"= 1'-0"

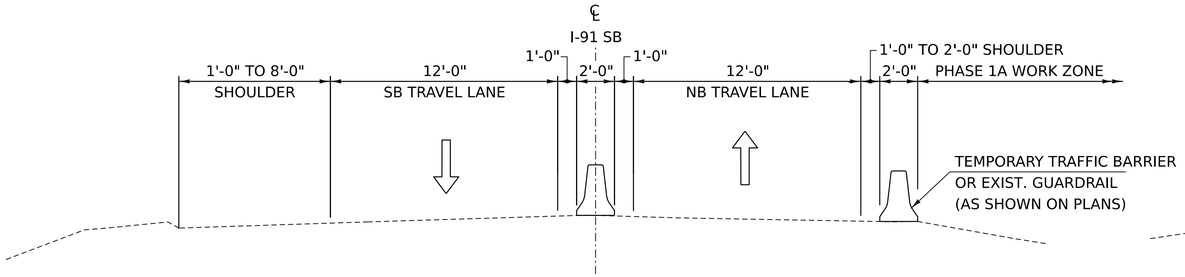


I-91 NB PHASE 0 CONSTRUCTION

STA. 22135+50 - STA. 22177+00

SCALE: ¼" = 1'-0"

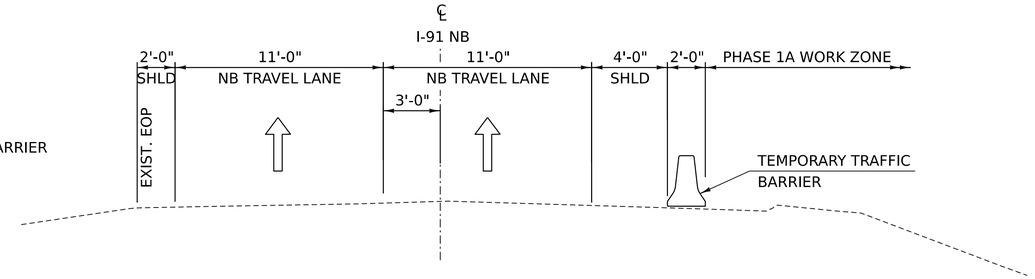
*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
3'-0" SHOULDER ON BRIDGES 25N



I-91 SB PHASE 1A CONSTRUCTION

STA. 12158+66 - STA. 12164+25

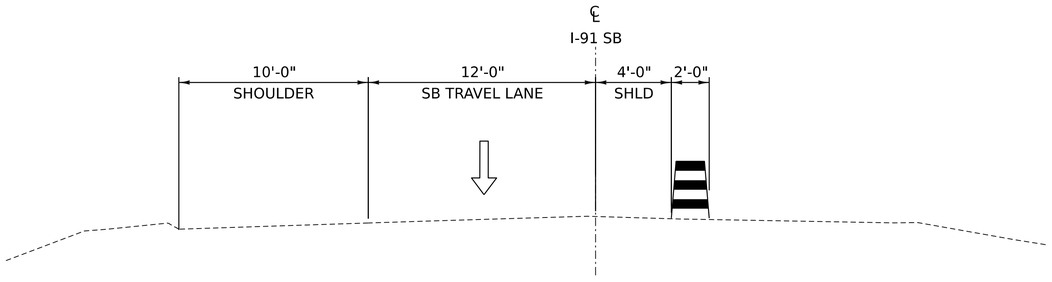
SCALE: ¼"= 1'-0"



I-91 NB PHASE 1A CONSTRUCTION

STA. 22182+50 - STA. 22197+00
STA. 22206+25 - STA. 22222+00

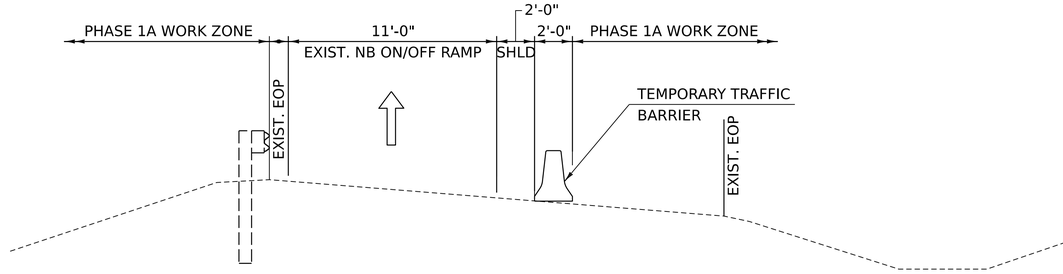
SCALE: ¼" = 1'-0"



I-91 SB PHASE 1A CONSTRUCTION

STA. 12171+00 - STA. 12175+00

SCALE: ¼"= 1'-0"

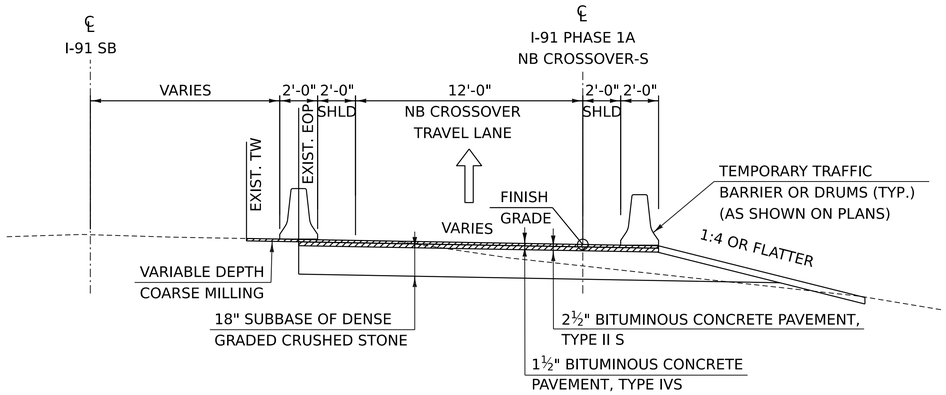


I-91 NB EXISTING ON/OFF RAMP PHASE 1A & 1B CONSTRUCTION

SCALE: ¼"= 1'-0"

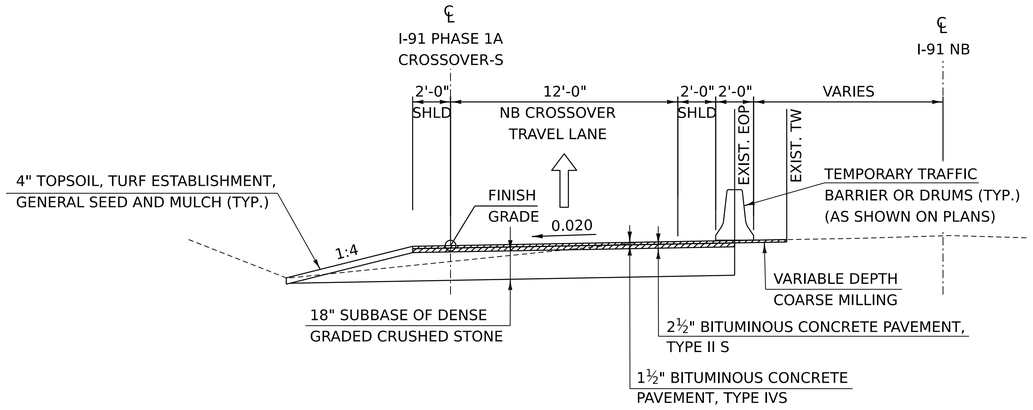
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574tcp_typ	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: D. BURTON
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 1	SHEET 146 OF 922

HNTB



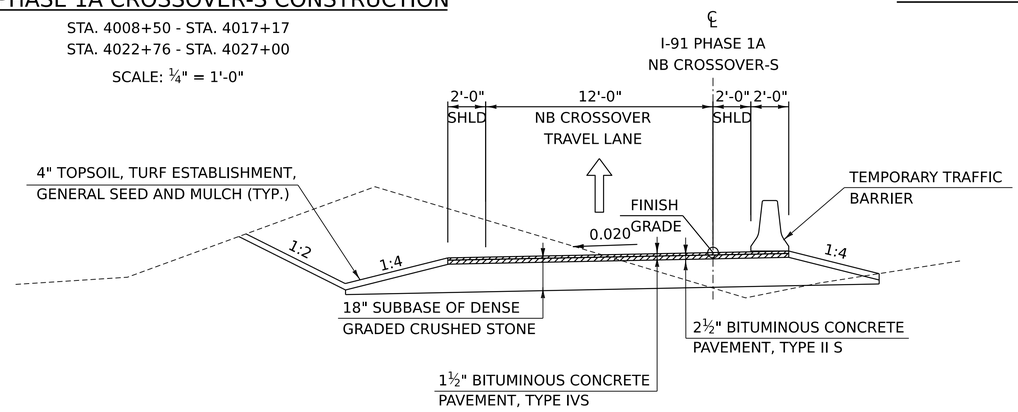
I-91 NB PHASE 1A CROSSOVER-S CONSTRUCTION

STA. 4008+50 - STA. 4017+17
STA. 4022+76 - STA. 4027+00
SCALE: ¼" = 1'-0"



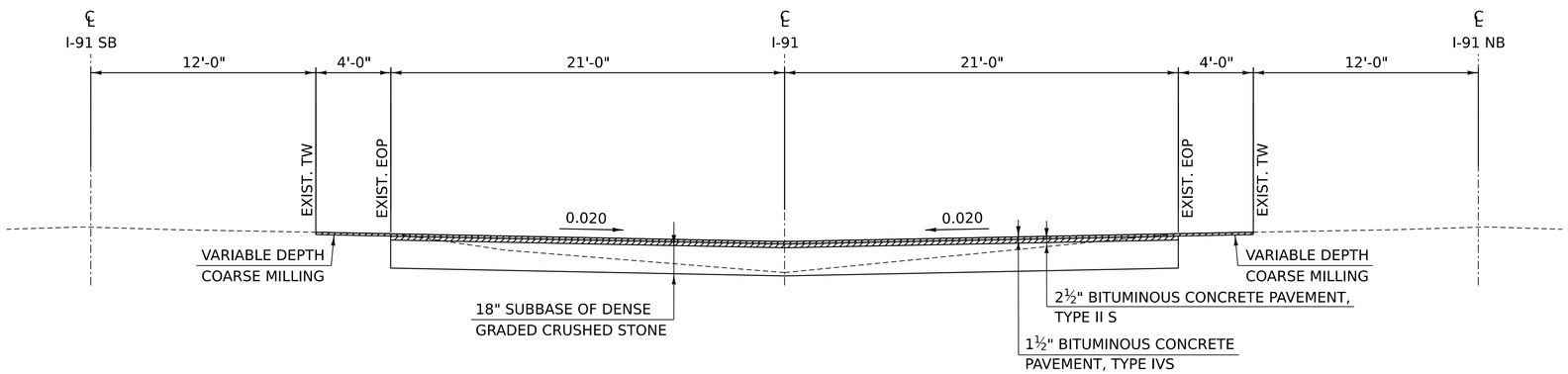
I-91 NB PHASE 1A CROSSOVER-S CONSTRUCTION

STA. 4002+00 - STA. 4006+00
SCALE: ¼" = 1'-0"



I-91 NB PHASE 1A CROSSOVER-S CONSTRUCTION

STA. 4006+00 - STA. 4008+50
SCALE: ¼"= 1'-0"



I-91 NB PHASE 1A CROSSOVER-N CONSTRUCTION

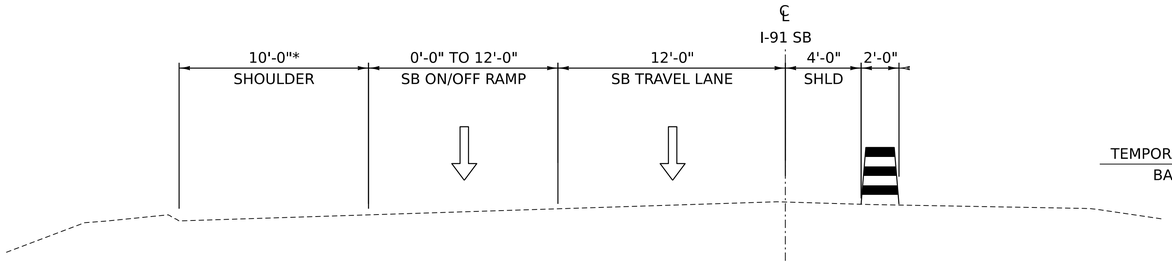
STA. 2168+50 - STA. 2171+75
SCALE: ¼"= 1'-0"

PHASE 1A CROSSOVER NOTES:

1. I-91 PHASE 1A CROSSOVER-S SHALL BE RE-USED DURING PHASE 1B. REFER TO PHASE 1B PLANS AND TYPICAL SECTIONS FOR TRAFFIC LAYOUT AND CONSTRUCTION
2. I-91 PHASE 1B CROSSOVER-N SHALL BE RE-USED DURING PHASES 1B, 2B &3B. REFER TO PHASE 1B, PHASE 2B, & PHASE 3B PLANS FOR TRAFFIC LAYOUT AND CONSTRUCTION

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574tcp_typ	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: D. BURTON
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 2	SHEET 147 OF 922

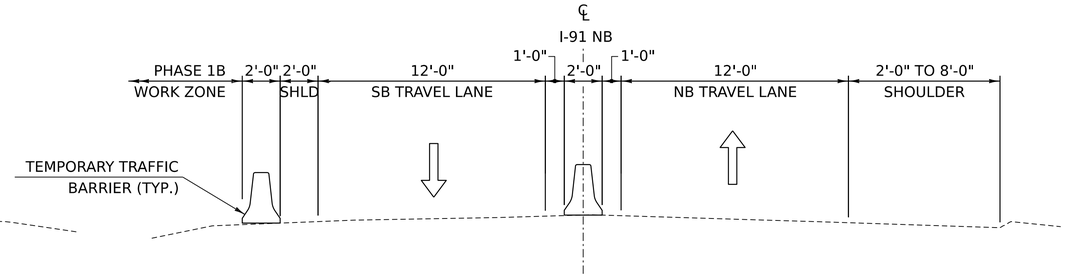
HNTB



*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
4'-0" SHOULDER AT SB ON RAMP
4'-0" SHOULDER AT SB OFF RAMP
3'-0" SHOULDER ON BRIDGE 28S
2'-0" SHOULDER ON BRIDGE 27S

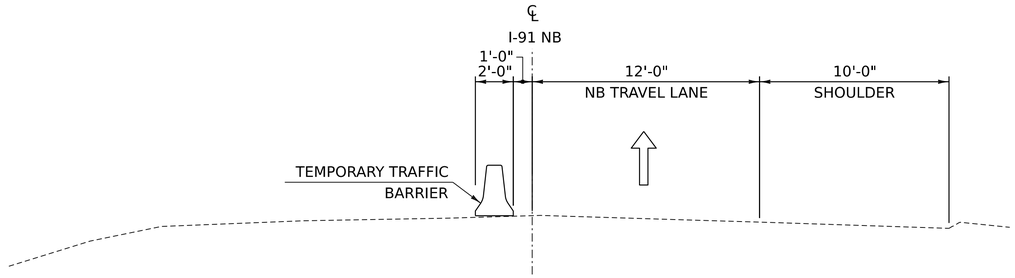
I-91 SB PHASE 1B CONSTRUCTION

STA. 12183+00 - STA. 12221+00
SCALE: ¼"= 1'-0"



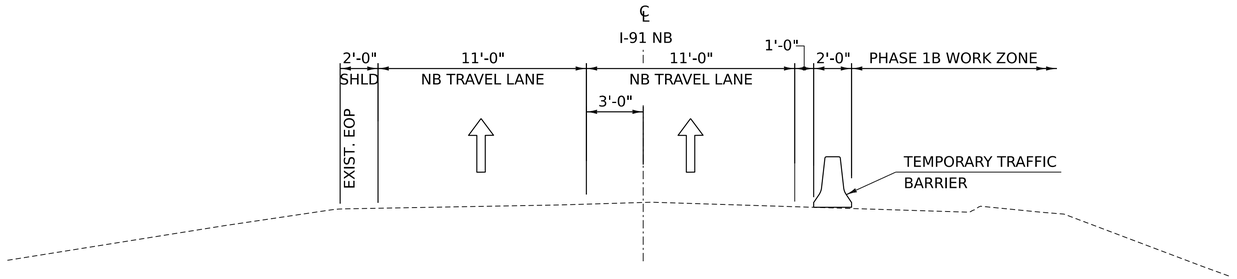
I-91 NB PHASE 1B CONSTRUCTION

STA. 22159+25 - STA. 22164+25
SCALE: ¼" = 1'-0"



I-91 NB PHASE 1B CONSTRUCTION

STA. 22170+50 - STA. 22177+25
SCALE: ¼" = 1'-0"

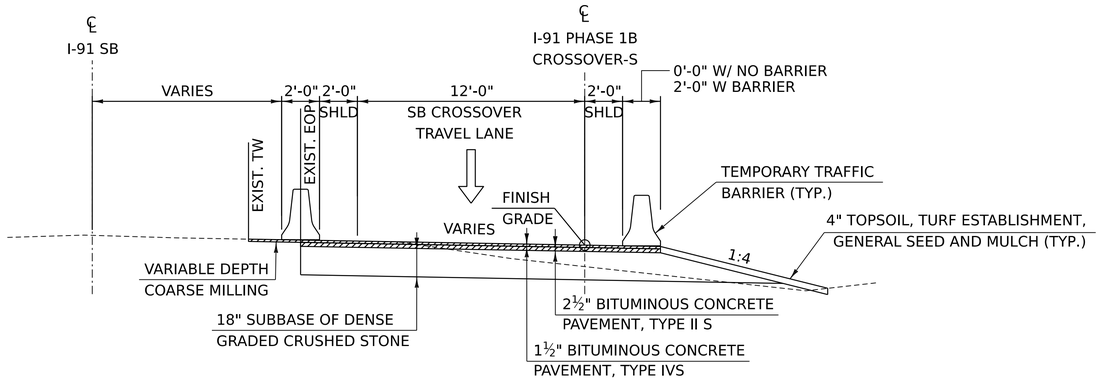


I-91 NB PHASE 1B CONSTRUCTION

STA. 22182+50 - STA. 22197+00
STA. 22206+25 - STA. 22222+00
SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574tcp_typ	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: D. BURTON
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 3	SHEET 148 OF 922

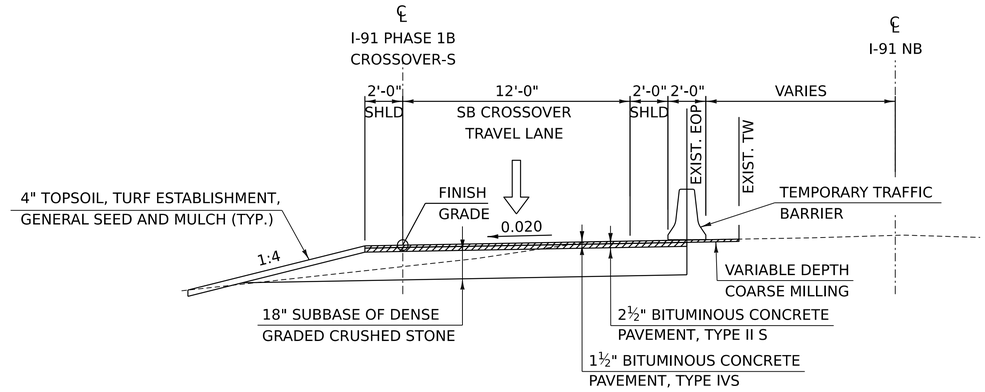
HNTB



I-91 SB PHASE 1B CROSSOVER CONSTRUCTION

STA. 7000+00 - STA. 7007+00

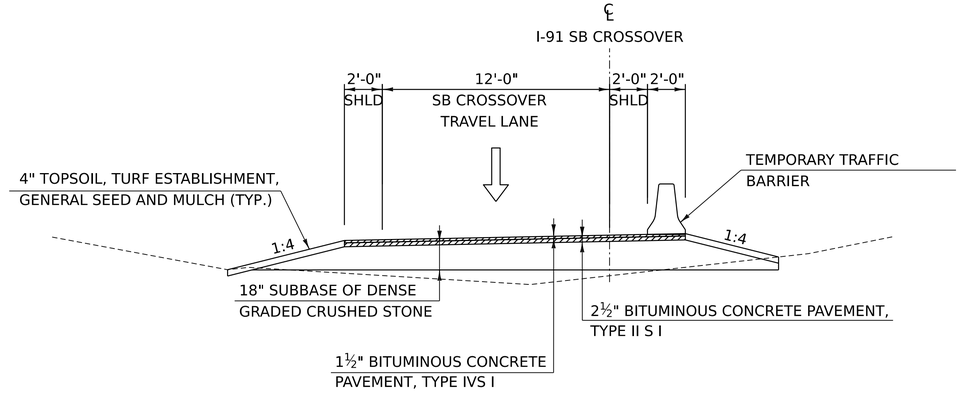
SCALE: ¼" = 1'-0"



I-91 SB PHASE 1B CROSSOVER CONSTRUCTION

STA. 7008+50 - STA. 7014+00

SCALE: ¼" = 1'-0"



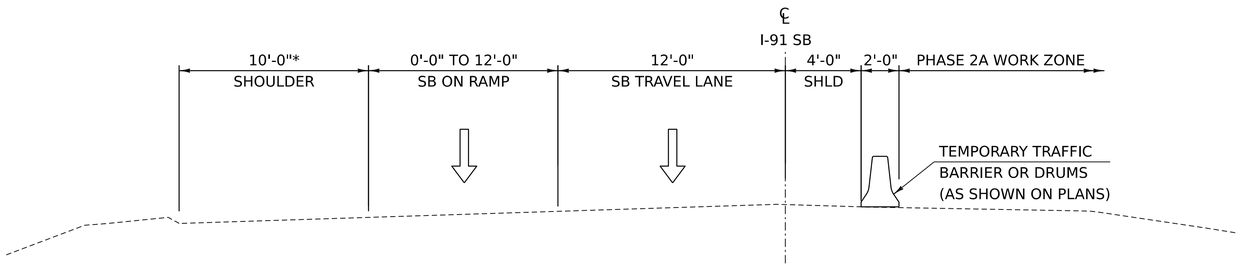
I-91 SB PHASE 1B CROSSOVER CONSTRUCTION

STA. 7007+00 - STA. 7008+50

SCALE: ¼" = 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574tcp_typ	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: D. BURTON
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 4	SHEET 149 OF 922

HNTB

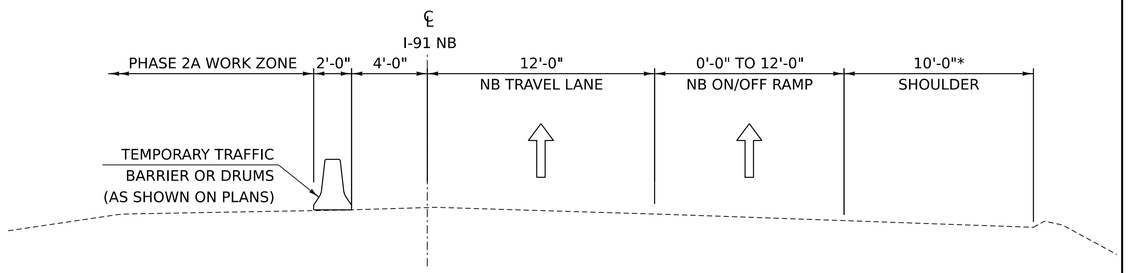


*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
4'-0" SHOULDER AT SB ON RAMP
3'-0" SHOULDER ON BRIDGES 25S, 26S & 28S
2'-0" SHOULDER ON BRIDGE 27S

I-91 SB PHASE 2A CONSTRUCTION

STA. 12146+50 - STA. 12200+75

SCALE: ¼"= 1'-0"

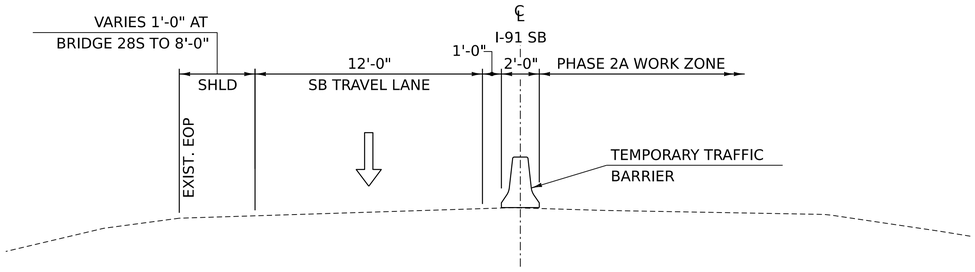


I-91 NB PHASE 2A CONSTRUCTION

STA. 22135+50 - STA. 22218+50

SCALE: $^{57}/_{64}$" = 1'-0"

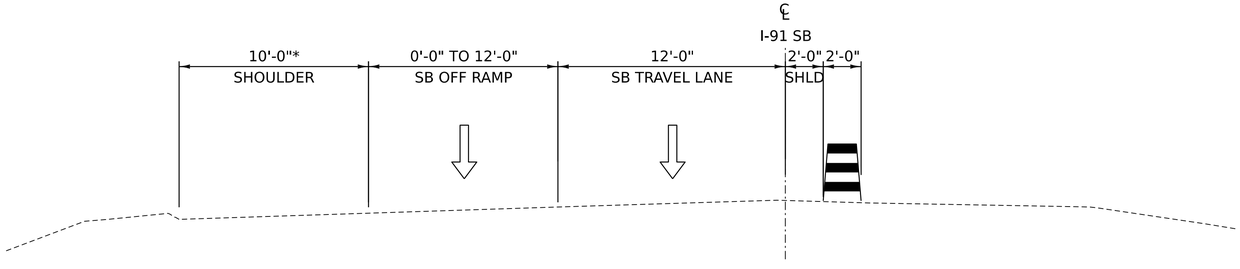
*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
3'-0" SHOULDER ON BRIDGES 25N, 26N, & 27N.
6'-0" SHOULDER ON BRIDGE 28N



I-91 SB PHASE 2A CONSTRUCTION

STA. 12201+75 - STA. 12205+00

SCALE: ¼" = 1'-0"



*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
4'-0" SHOULDER AT SB OFF RAMP

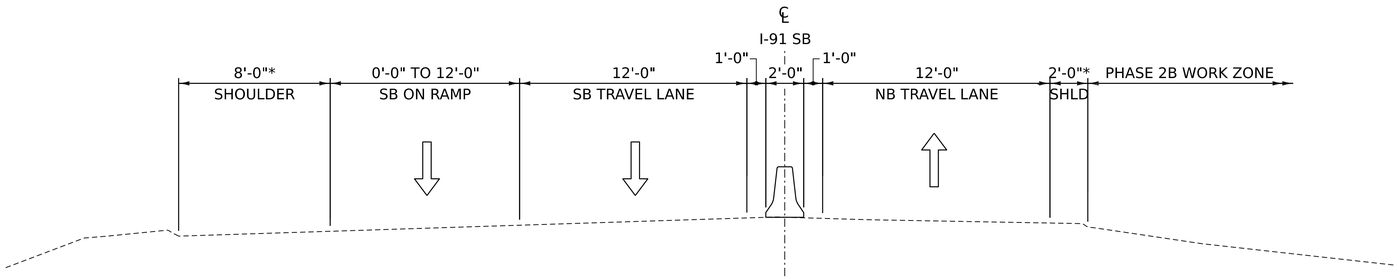
I-91 SB PHASE 2A CONSTRUCTION

STA. 12206+00 - STA. 12221+00

SCALE: ¼"= 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574tcp_typ	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: D. BURTON
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 5	SHEET 150 OF 922

HNTB



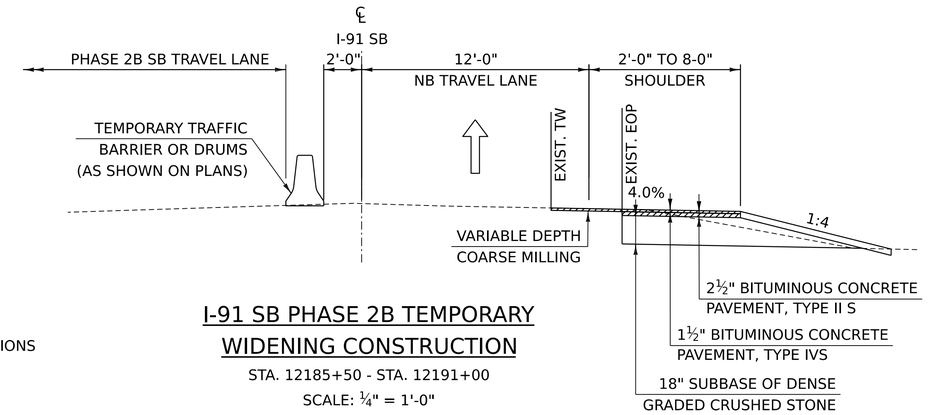
*SB SHOULDER WIDTH IS TYPICALLY 8'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
2'-0" SHOULDER AT SB ON RAMP
1'-0" SHOULDER ON BRIDGES 26S, 27S & 28S

I-91 SB PHASE 2B CONSTRUCTION

STA. 12175+75 - STA. 12201+50

SCALE: ¼" = 1'-0"

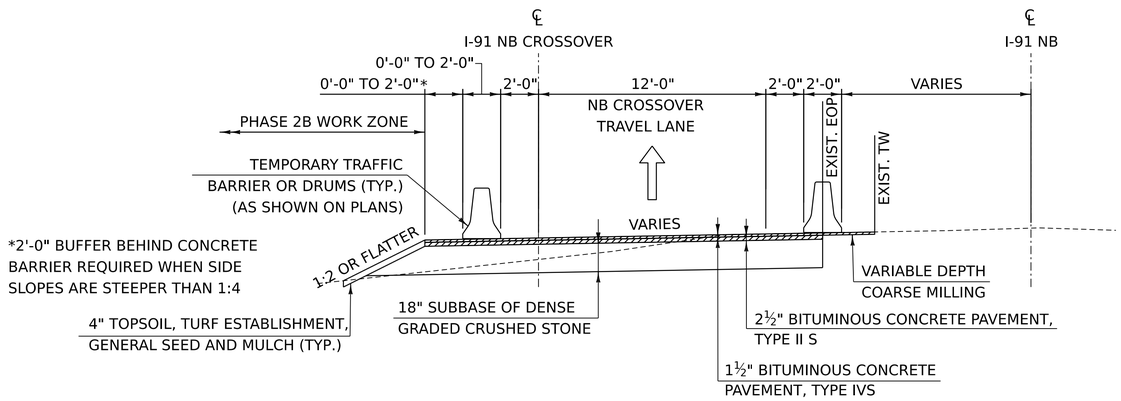
*NB SHOULDER WIDTH IS TYPICALLY 2'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
8'-0" SHOULDER AT TEMPORARY WIDENING LOCATIONS
1'-0" SHOULDER ON BRIDGES 26S, 27S & 28S



I-91 SB PHASE 2B TEMPORARY WIDENING CONSTRUCTION

STA. 12185+50 - STA. 12191+00

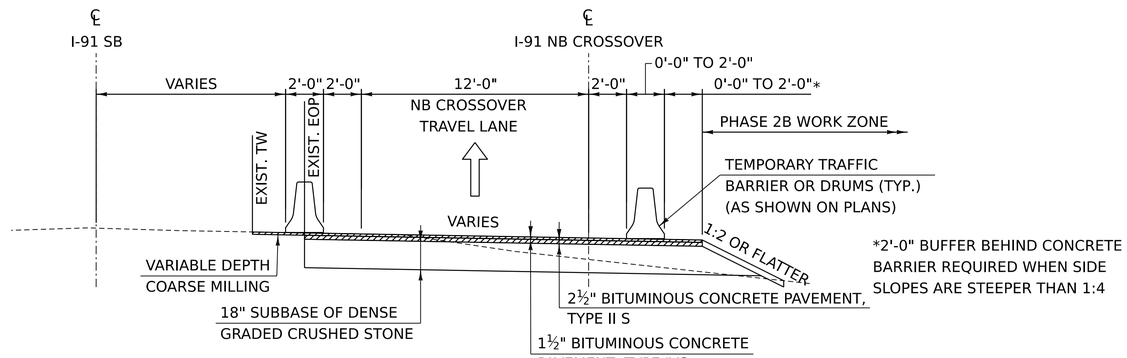
SCALE: ¼" = 1'-0"



I-91 NB PHASE 2B CROSSOVER CONSTRUCTION

STA. 5004+50 - STA. 5010+62
STA. 6010+50 - STA. 6015+00

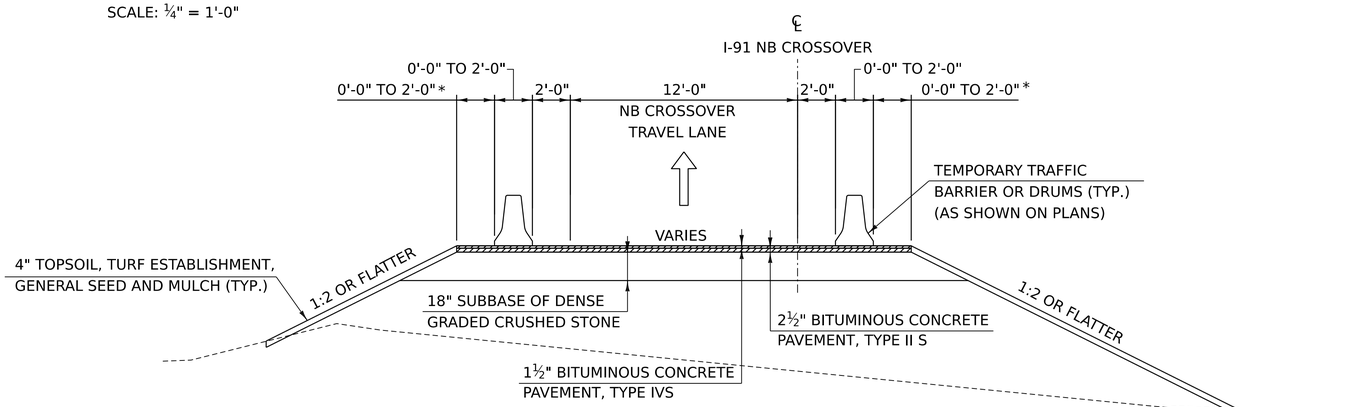
SCALE: ¼" = 1'-0"



I-91 NB PHASE 2B CROSSOVER CONSTRUCTION

STA. 5000+00 - STA. 5003+50

SCALE: ¼" = 1'-0"



*2'-0" BUFFER BEHIND CONCRETE
BARRIER REQUIRED WHEN SIDE
SLOPES ARE STEEPER THAN 1:4

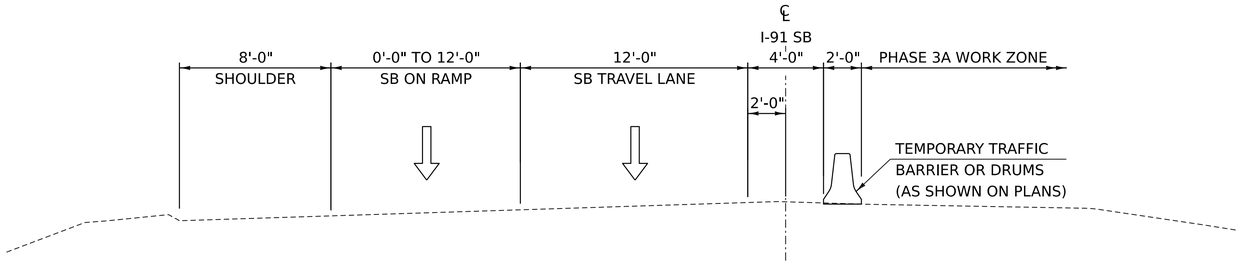
I-91 NB PHASE 2B CROSSOVER CONSTRUCTION

STA. 5003+50 - STA. 5004+50
STA. 6001+25 - STA. 6010+50

SCALE: ¼"= 1'-0"

HNTB

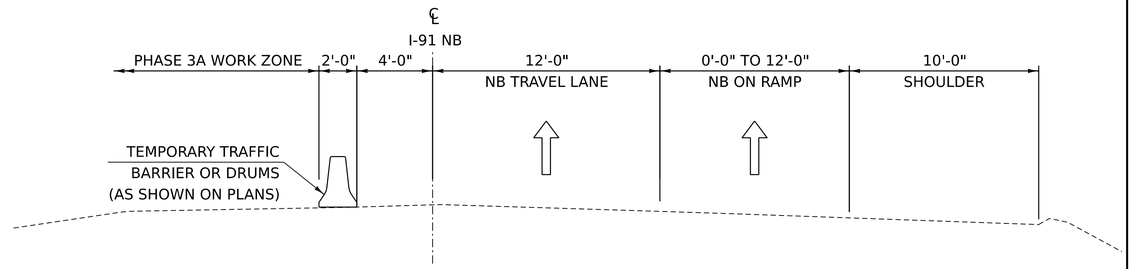
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574tcp_typ	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	D. BURTON
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 6		SHEET	151 OF 922



I-91 SB PHASE 3A CONSTRUCTION

STA. 12169+25 - STA. 12205+00

SCALE: ¼"= 1'-0"

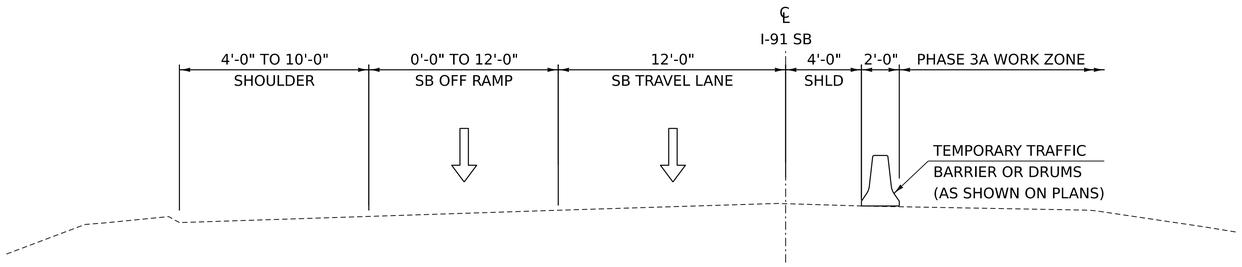


I-91 NB PHASE 3A CONSTRUCTION

STA. 22135+50 - STA. 22168+50

STA. 22206+25 - STA. 22218+50

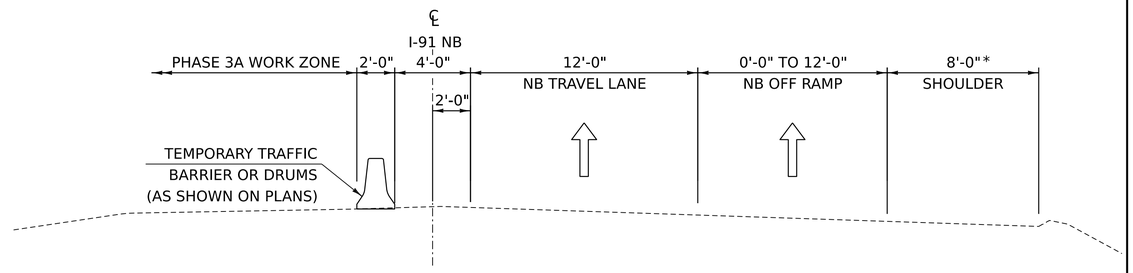
SCALE: ¼"= 1'-0"



I-91 SB PHASE 3A CONSTRUCTION

STA. 12206+00 - STA. 12221+00

SCALE: ¼"= 1'-0"



I-91 NB PHASE 3A CONSTRUCTION

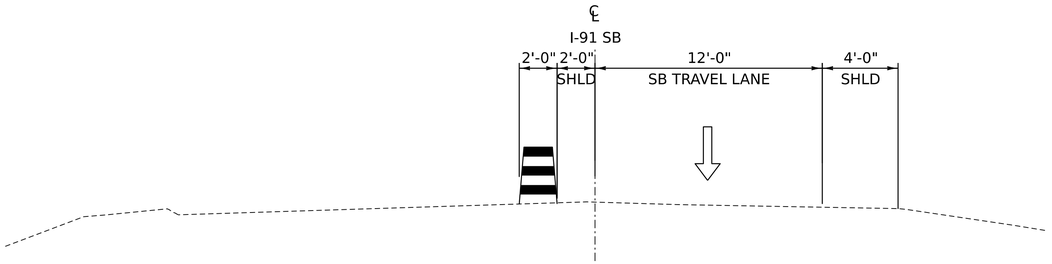
STA. 22169+50 - STA. 22205+25

SCALE: ¼"= 1'-0"

*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
-2'-0" SHOULDER ON BRIDGES 26N

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

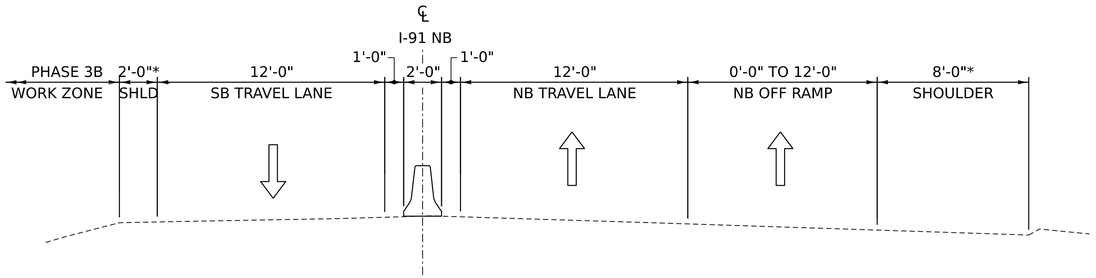
FILE NAME:	z12a574tcp_typ	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	D. BURTON
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 7		SHEET	152 OF 922



I-91 SB PHASE 3B CONSTRUCTION

STA. 12217+00 - STA. 12221+00

SCALE: ¼"= 1'-0"



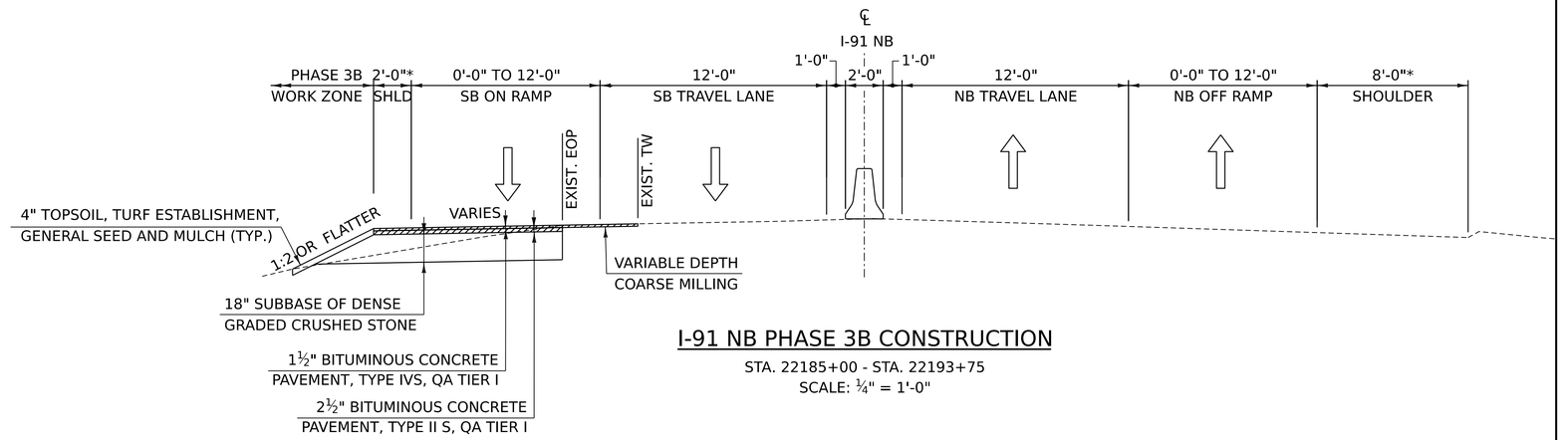
*SB SHOULDER WIDTH IS TYPICALLY 2'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
8'-0" SHOULDER AT TEMPORARY WIDENING LOCATIONS

I-91 NB PHASE 3B CONSTRUCTION

STA. 22176+00 - STA. 22185+00
STA. 22193+75 - STA. 22202+25

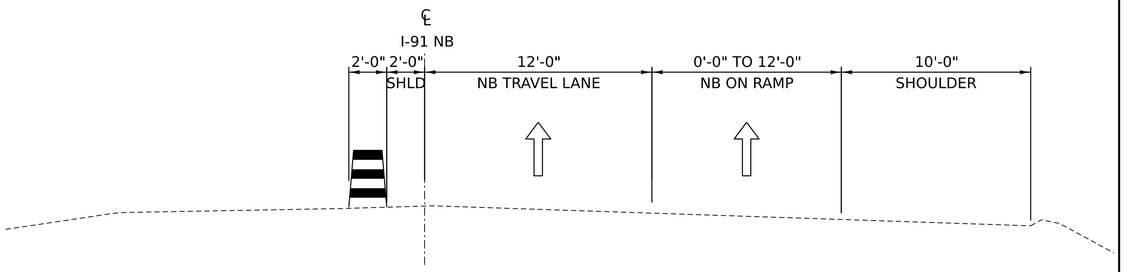
SCALE: ¼" = 1'-0"

*NB SHOULDER WIDTH IS TYPICALLY 8'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
2'-0" SHOULDER ON BRIDGES 25N & 26N



I-91 NB PHASE 3B CONSTRUCTION

STA. 22185+00 - STA. 22193+75
SCALE: ¼" = 1'-0"



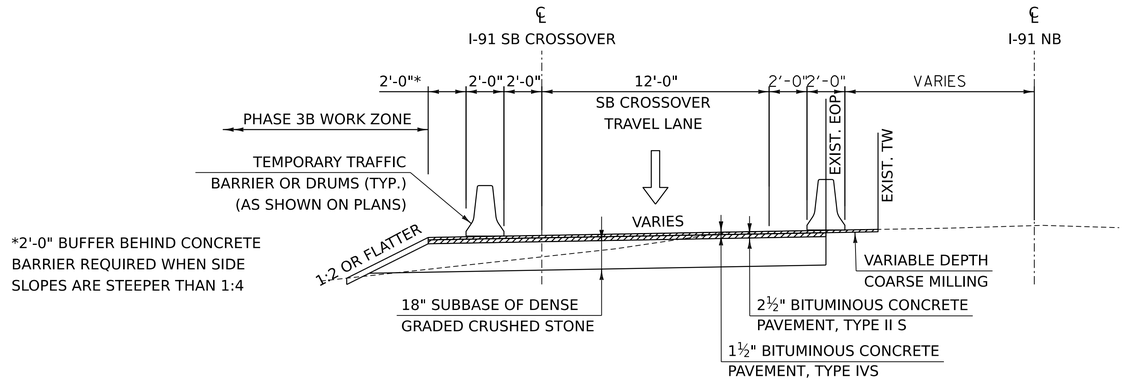
I-91 NB PHASE 3B CONSTRUCTION

STA. 22206+25 - STA. 22208+50
SCALE: ¼"= 1'-0"

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

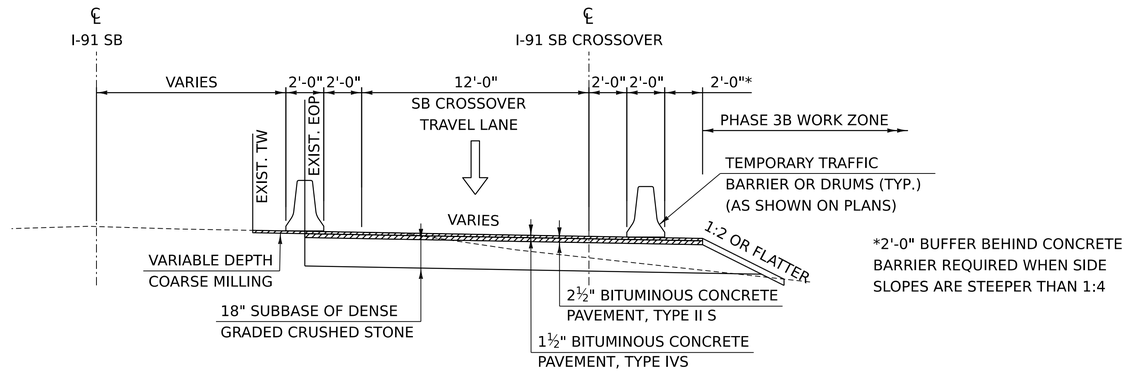
FILE NAME:	z12a574tcp_typ	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	D. BURTON
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 8		SHEET	153 OF 922

HNTB



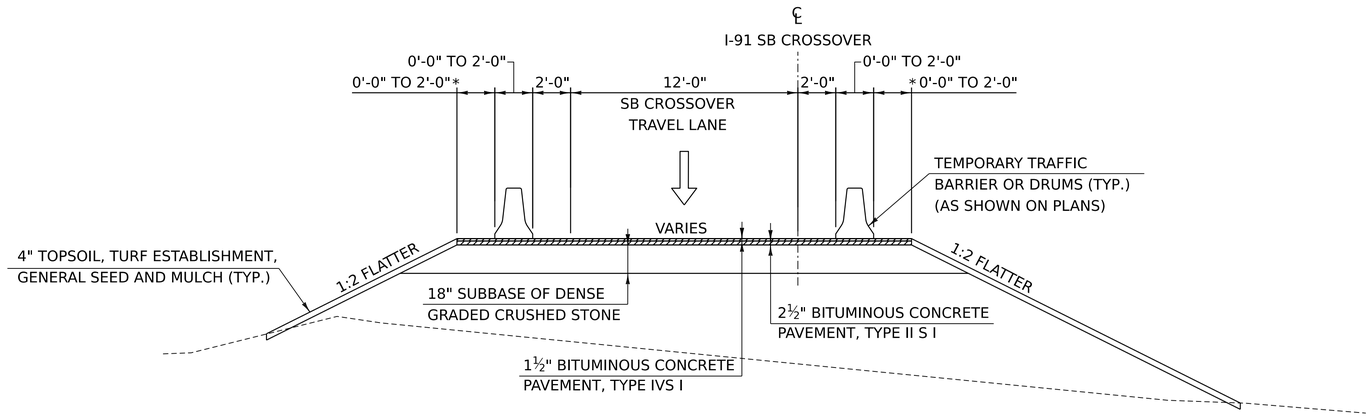
I-91 SB PHASE 3B CROSSOVERS CONSTRUCTION

STA. 8000+00 - STA. 8007+25
STA. 9000+00 - STA. 9002+75
SCALE: ¼" = 1'-0"



I-91 SB PHASE 3B CROSSOVERS CONSTRUCTION

STA. 8009+50 - STA. 8010+50
STA. 9009+75 - STA. 9014+00
SCALE: ¼" = 1'-0"



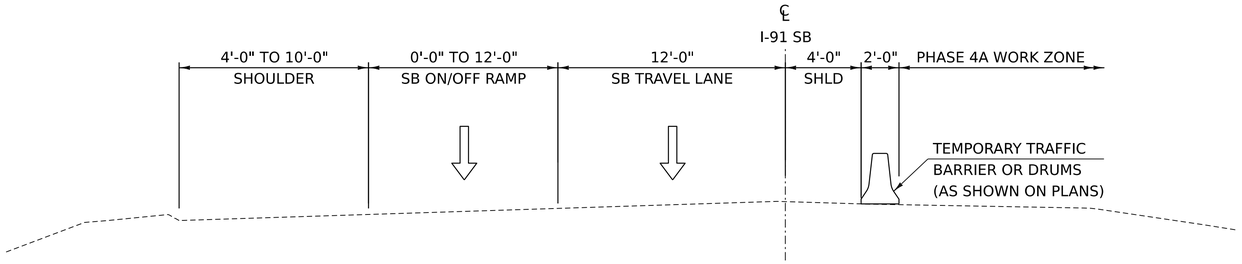
*2'-0" BUFFER BEHIND CONCRETE
BARRIER REQUIRED WHEN SIDE
SLOPES ARE STEEPER THAN 1:4

I-91 SB PHASE 3B CROSSOVERS CONSTRUCTION

STA. 8007+50 - STA. 8009+50
STA. 9002+75 - STA. 9009+75
SCALE: ¼" = 1'-0"

HNTB

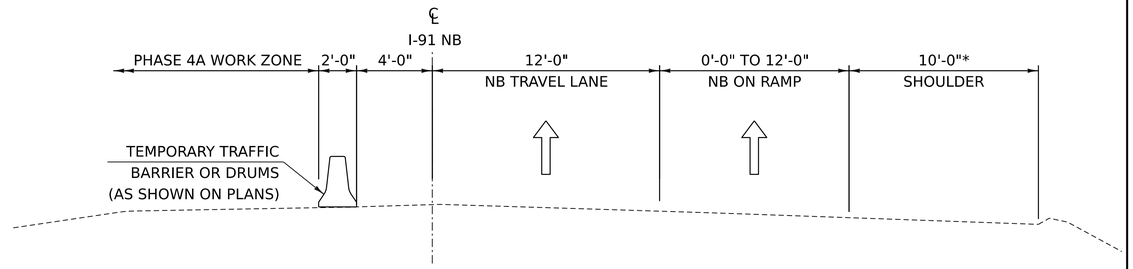
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574tcp_typ	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	D. BURTON
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 9		SHEET	154 OF 922



I-91 SB PHASE 4A CONSTRUCTION

STA. 12163+75 - STA. 12221+00

SCALE: ¼"= 1'-0"



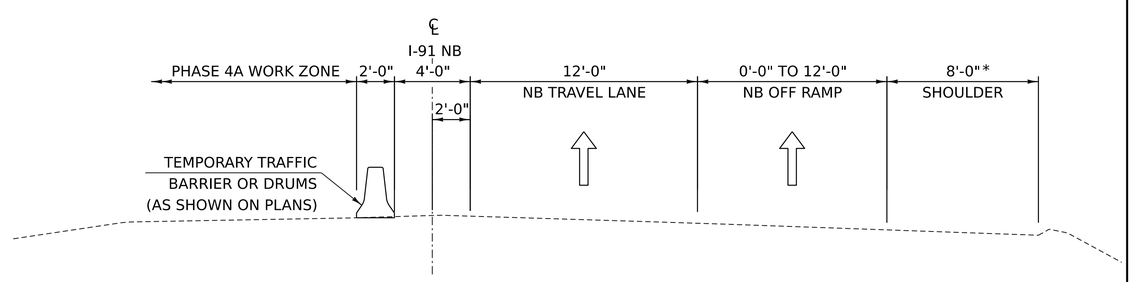
I-91 NB PHASE 4A CONSTRUCTION

STA. 22135+50 - STA. 22168+50

STA. 22206+25 - STA. 22208+50

SCALE: ¼"= 1'-0"

*SHOULDER WIDTH IS TYPICALLY 10'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
4'-0" SHOULDER ON BRIDGES 25N



I-91 NB PHASE 4A CONSTRUCTION

STA. 22169+50 - STA. 22205+25

SCALE: ¼"= 1'-0"

*SHOULDER WIDTH IS TYPICALLY 8'-0"
BUT VARIES AT THE FOLLOWING LOCATIONS:
2'-0" SHOULDER ON BRIDGES 26N

HNTB

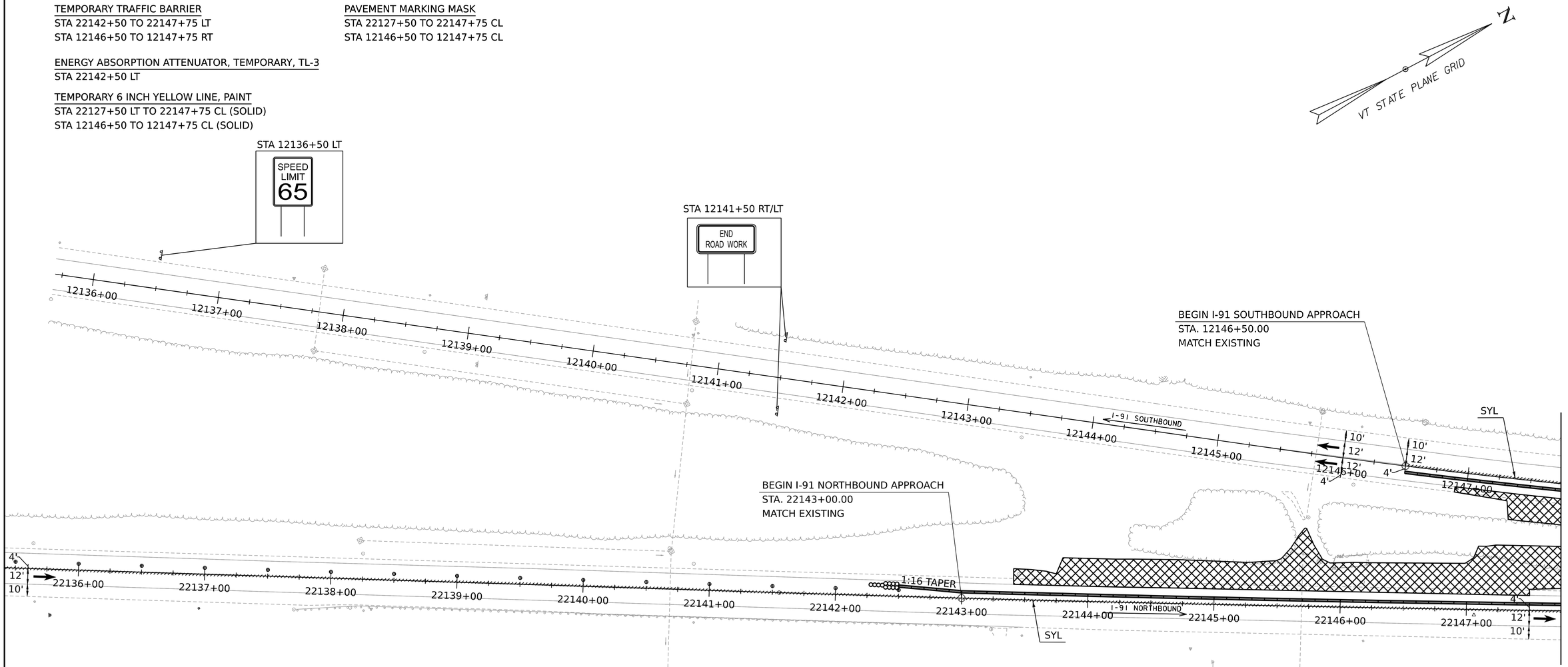
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574tcp_typ	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: D. BURTON
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
TRAFFIC CONTROL TYPICAL SECTIONS 10	SHEET 155 OF 922

TEMPORARY TRAFFIC BARRIER
STA 22142+50 TO 22147+75 LT
STA 12146+50 TO 12147+75 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22142+50 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22127+50 LT TO 22147+75 CL (SOLID)
STA 12146+50 TO 12147+75 CL (SOLID)

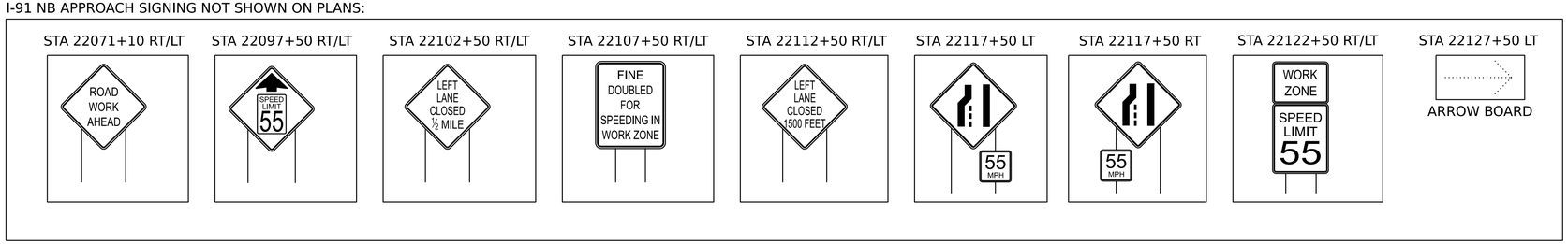
PAVEMENT MARKING MASK
STA 22127+50 TO 22147+75 CL
STA 12146+50 TO 12147+75 CL



LEGEND:

	TYPE III BARRICADE
	TYPE III BARRICADE (MODIFIED)
	PAVEMENT MARKING MASK
	PLASTIC DRUM
	IMPACT ATTENUATOR
	TEMPORARY PAVEMENT
	WORK ZONE
	TEMPORARY CONCRETE BARRIER
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
DWL	DOTTED WHITE LINE
BWL	BROKEN WHITE LINE
	TRAFFIC FLOW ARROW
	FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:



SCALE 1" = 40'-0"
40 0 40

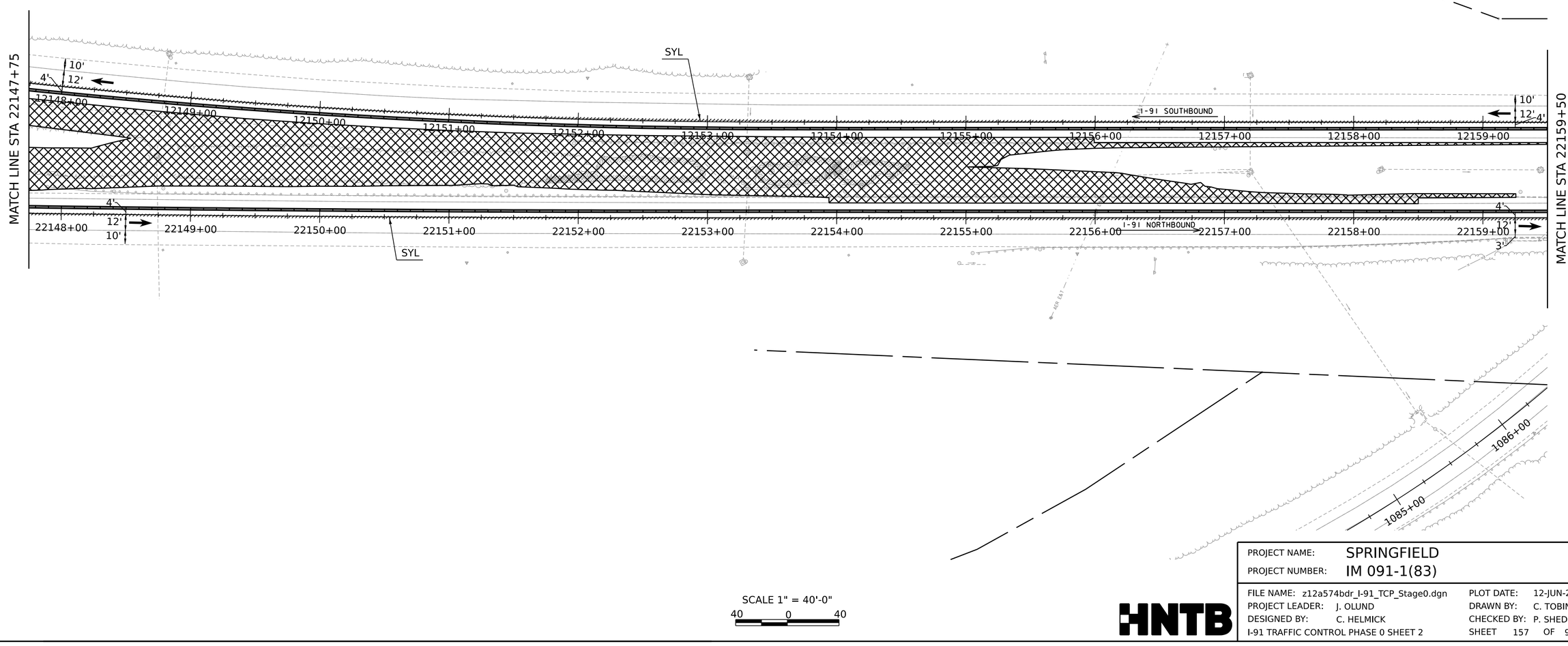
HNTB

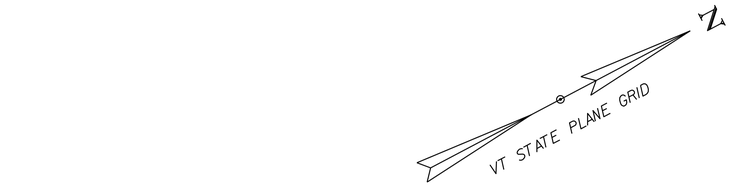
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_I-91_TCP_Stage0.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
I-91 TRAFFIC CONTROL PHASE 0 SHEET 1	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. TOBIN
CHECKED BY:	P. SHEDD
SHEET	156 OF 922

TEMPORARY TRAFFIC BARRIER
STA 22147+75 TO 22159+50 LT
STA 12147+75 TO 12159+50 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22147+75 TO 22159+50 CL (SOLID)
STA 12147+75 TO 12159+50 CL (SOLID)

PAVEMENT MARKING MASK
STA 22147+75 TO 22159+50 CL
STA 12147+75 TO 12159+50 CL





SCALE 1" = 40'-0"
40 0 40

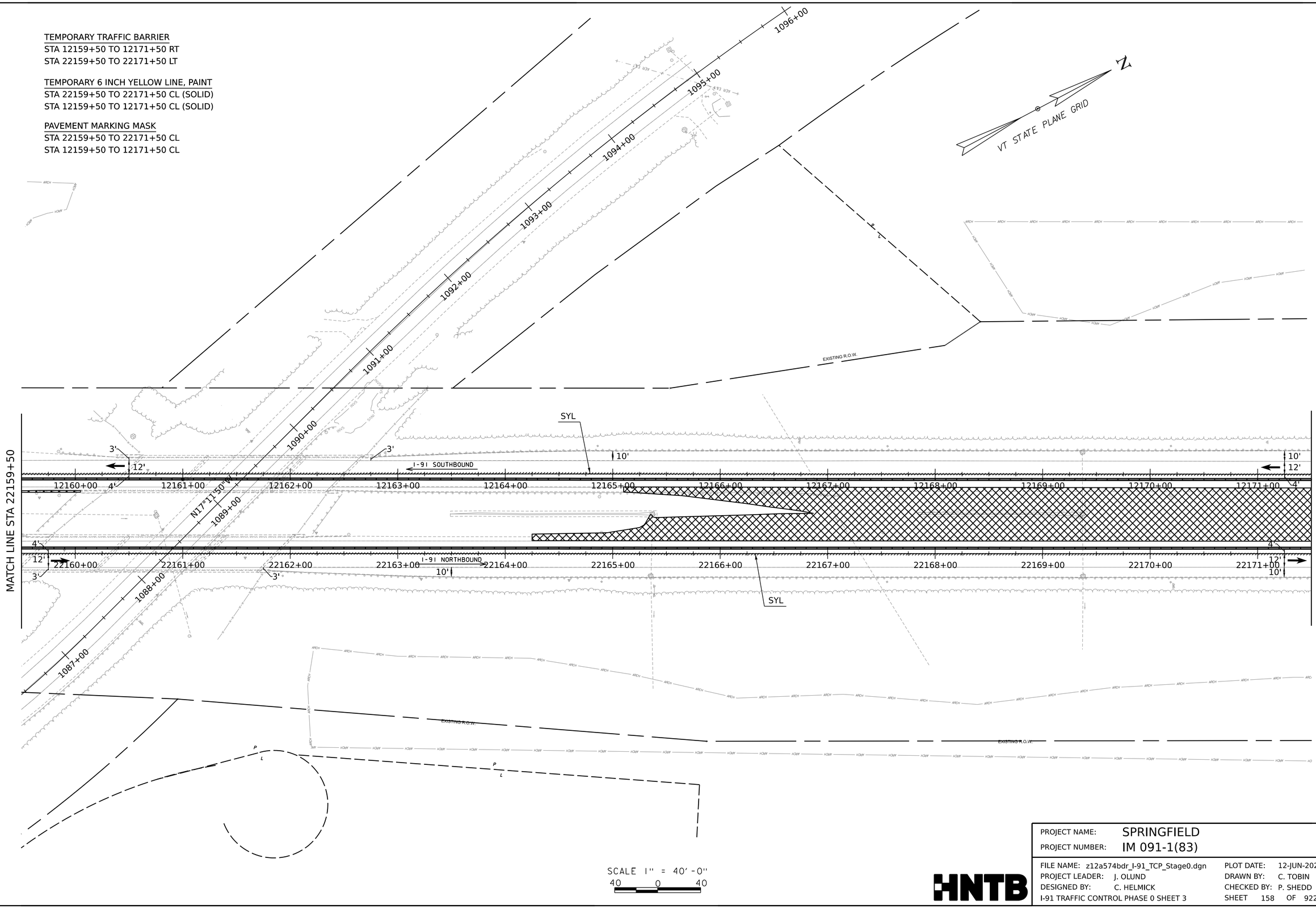
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 2		SHEET	157 OF 922

TEMPORARY TRAFFIC BARRIER
STA 12159+50 TO 12171+50 RT
STA 22159+50 TO 22171+50 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22159+50 TO 22171+50 CL (SOLID)
STA 12159+50 TO 12171+50 CL (SOLID)

PAVEMENT MARKING MASK
STA 22159+50 TO 22171+50 CL
STA 12159+50 TO 12171+50 CL



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 3	SHEET 158 OF 922

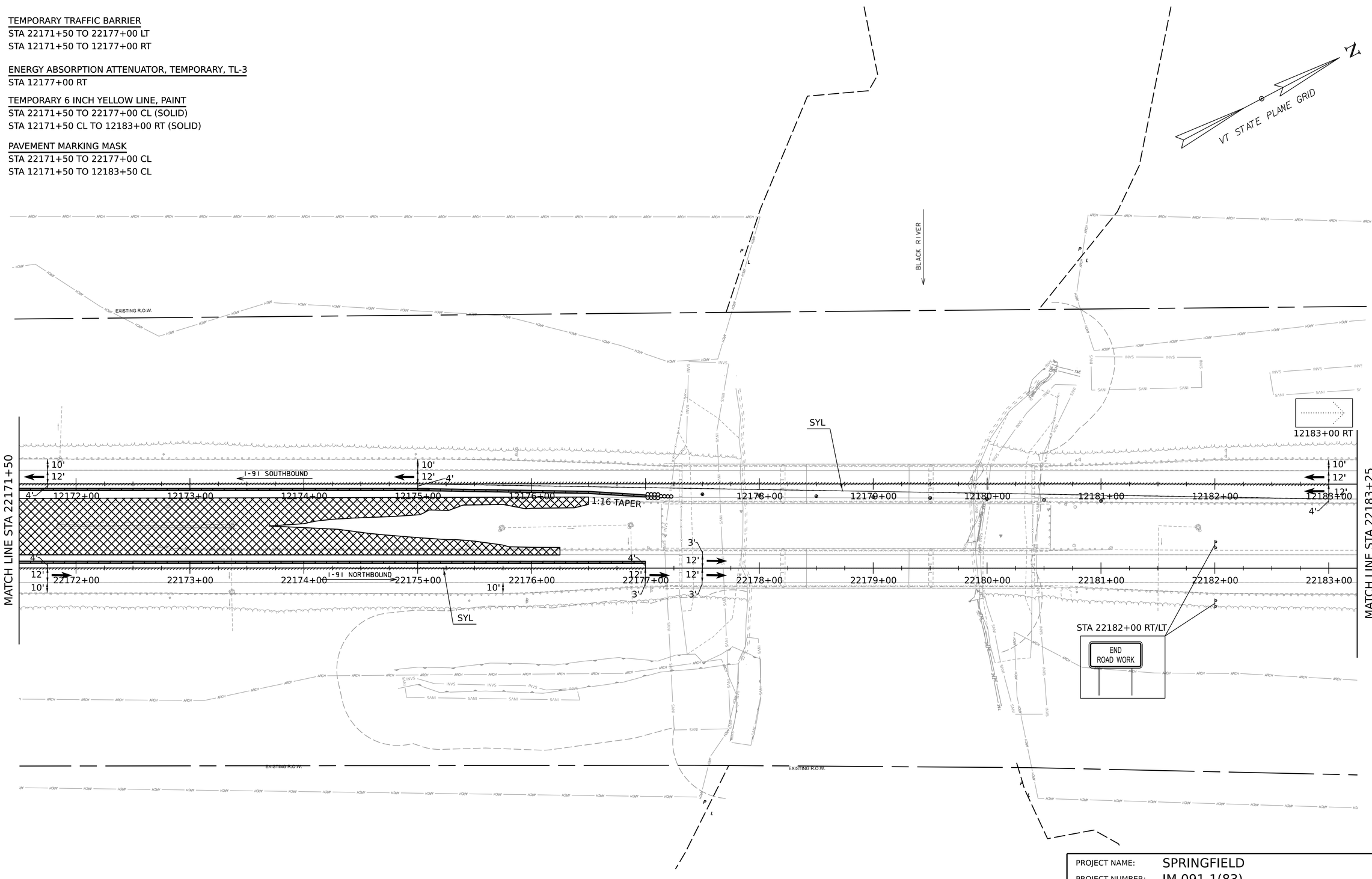
HNTB

TEMPORARY TRAFFIC BARRIER
STA 22171+50 TO 22177+00 LT
STA 12171+50 TO 12177+00 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12177+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22171+50 TO 22177+00 CL (SOLID)
STA 12171+50 CL TO 12183+00 RT (SOLID)

PAVEMENT MARKING MASK
STA 22171+50 TO 22177+00 CL
STA 12171+50 TO 12183+50 CL



SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 4	SHEET 159 OF 922

N

VT STATE PLANE GRID

STA 12188+00 RT/LT

WORK ZONE

SPEED LIMIT 55

EXISTING R.O.W.

EXISTING R.O.W.

STA 12192+75 RT/LT

55 MPH

MATCH LINE STA 22183+25

12184+00 12185+00 12186+00 12187+00 12188+00 12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

I-91 SOUTHBOUND

I-91 NORTHBOUND

22184+00 22185+00 22186+00 22187+00 22188+00 22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

MATCH LINE STA 22194+75

STA 22187+00 RT

SPEED LIMIT 65

EXISTING R.O.W.

EXISTING R.O.W.

EXISTING R.O.W.

SCALE 1" = 40'-0"

40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 5		SHEET	160 OF 922

N

VT STATE PLANE GRID

STA 12198+00 RT/LT

LEFT LANE CLOSED 1500 FEET

12203+00 RT/LT

FINE DOUBLED FOR SPEEDING IN WORK ZONE

I-91 SOUTHBOUND

I-91 NORTHBOUND

MATCH LINE STA 22194+75

MATCH LINE STA 12206+50

MATCH LINE STA 22206+50

12195+00 12196+00 12197+00 12198+00 12199+00 12200+00 12201+00 12202+00 12203+00 12204+00 12205+00 12206+00

22195+00 22196+00 22197+00 22198+00 22199+00 22200+00 22201+00 22202+00 22203+00 22204+00 22205+00 22206+00

129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00

B-H0 AS-DRILLED BORN@439

B-I02 AS-DRILLED BORN@464

B-I03 AS-DRILLED BORN@466

B-I04 AS-DRILLED BORN@463

B-I05 AS-DRILLED BORN@467

B-I07 AS-DRILLED BORN@461

B-I08 AS-DRILLED BORN@458

B-I09 AS-DRILLED 2"PVC/2.4'TALL BORN@469

B-I0 AS-DRILLED BORN@465

STATE TOWN

SCALE 1" = 40'-0"

40 0 40

NOTE:
TRAFFIC CONTROL ON CHARLESTOWN RD NOT SHOWN,
SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 6		SHEET	161 OF 922

VT STATE PLANE GRID

N

STA 12208+00 RT/LT

LEFT LANE CLOSED ½ MILE

STA 12213+00 RT/LT

SPEED LIMIT 55

MATCH LINE STA 12206+50

I-91 SOUTHBOUND

12207+00 12208+00 12209+00 12210+00 12211+00 12212+00 12213+00 12214+00 12215+00 12216+00

MATCH LINE STA 12216+25

SPENCER BROOK

MATCH LINE STA 22206+50

22207+00 22208+00 22209+00 22210+00 22211+00 22212+00 22213+00 22214+00 22215+00 22216+00 22217+00

I-91 NORTHBOUND

MATCH LINE STA 22217+25

SCALE 1" = 40'-0"

40 0 40

HNTB

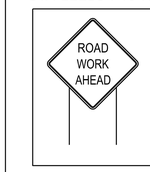
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 7		SHEET	162 OF 922

VT STATE PLANE GRID

N

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

STA 12239+40 RT/LT



MATCH LINE STA 12216+25

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

I-91 SOUTHBOUND

12217+00 12218+00 12219+00 12220+00 12221+00 12222+00 12223+00 12224+00 12225+00 12226+00 12227+00 12228+00

SPENCER BROOK

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

I-91 NORTHBOUND

22218+00 22219+00 22220+00 22221+00 22222+00 22223+00 22224+00 22225+00 22226+00 22227+00 22228+00

MATCH LINE STA 22217+25

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage0.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 0 SHEET 8		SHEET	163 OF 922

TEMPORARY TRAFFIC BARRIER
STA 4004+58 TO 4006+25 RT

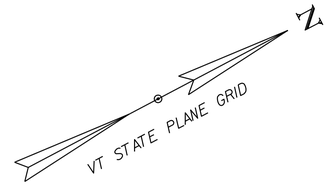
ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 4004+58 RT

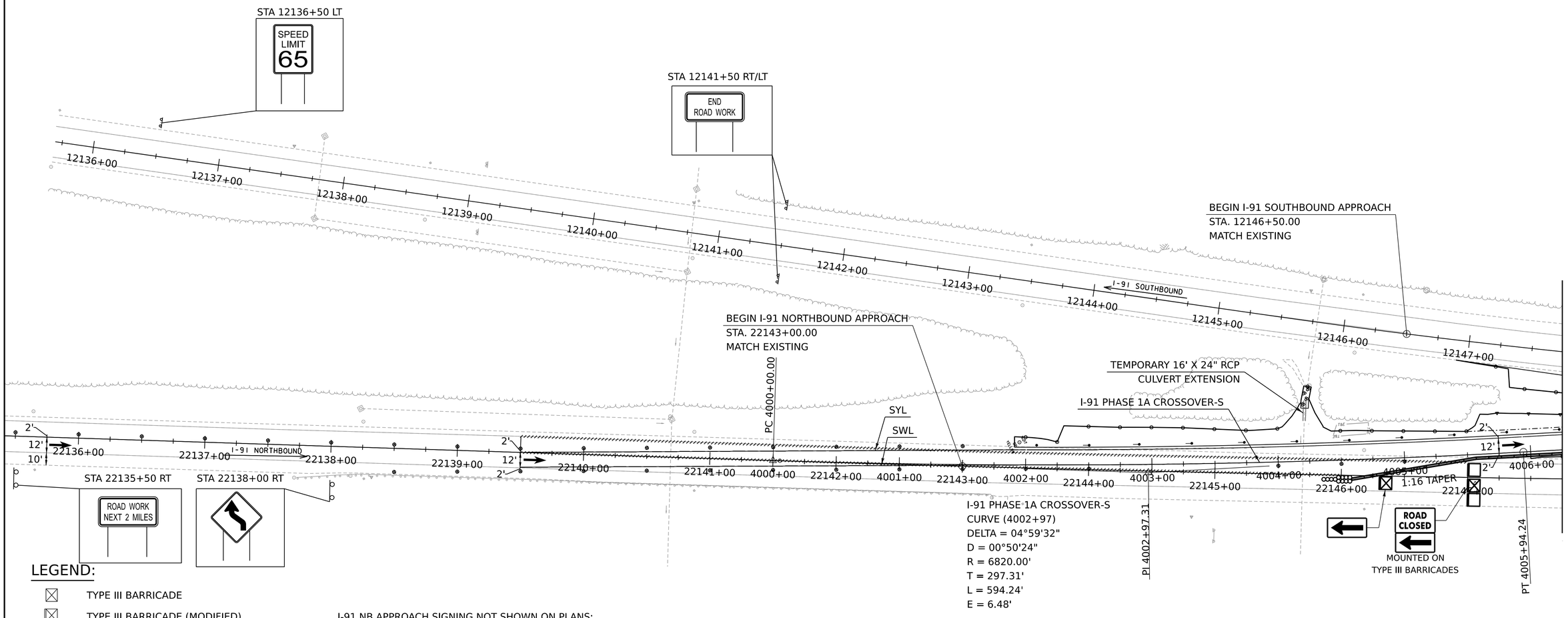
TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22139+50 CL TO 4006+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22139+50 RT TO 4006+25 CL (SOLID)

PAVEMENT MARKING MASK
STA 22139+50 TO 22146+00 CL
STA 22139+50 TO 22145+00 LT

DIVIDED HIGHWAY CROSSOVER
I-91 PHASE 1A CROSSOVER-S
(I-91 PHASE 1B CROSSOVER-S)

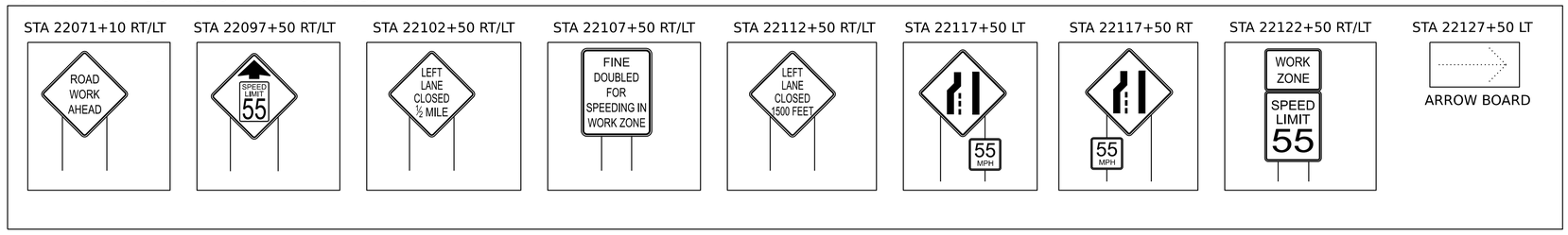




LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL — SOLID WHITE LINE
- SYL — SOLID YELLOW LINE
- DWL — DOTTED WHITE LINE
- BWL — BROKEN WHITE LINE
- TRAFFIC FLOW ARROW
- FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:



SCALE 1" = 40'-0"
40 0 40

HNTB

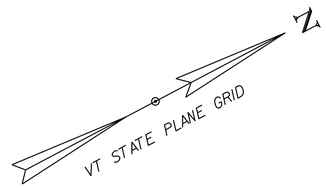
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 1		SHEET	164 OF 922

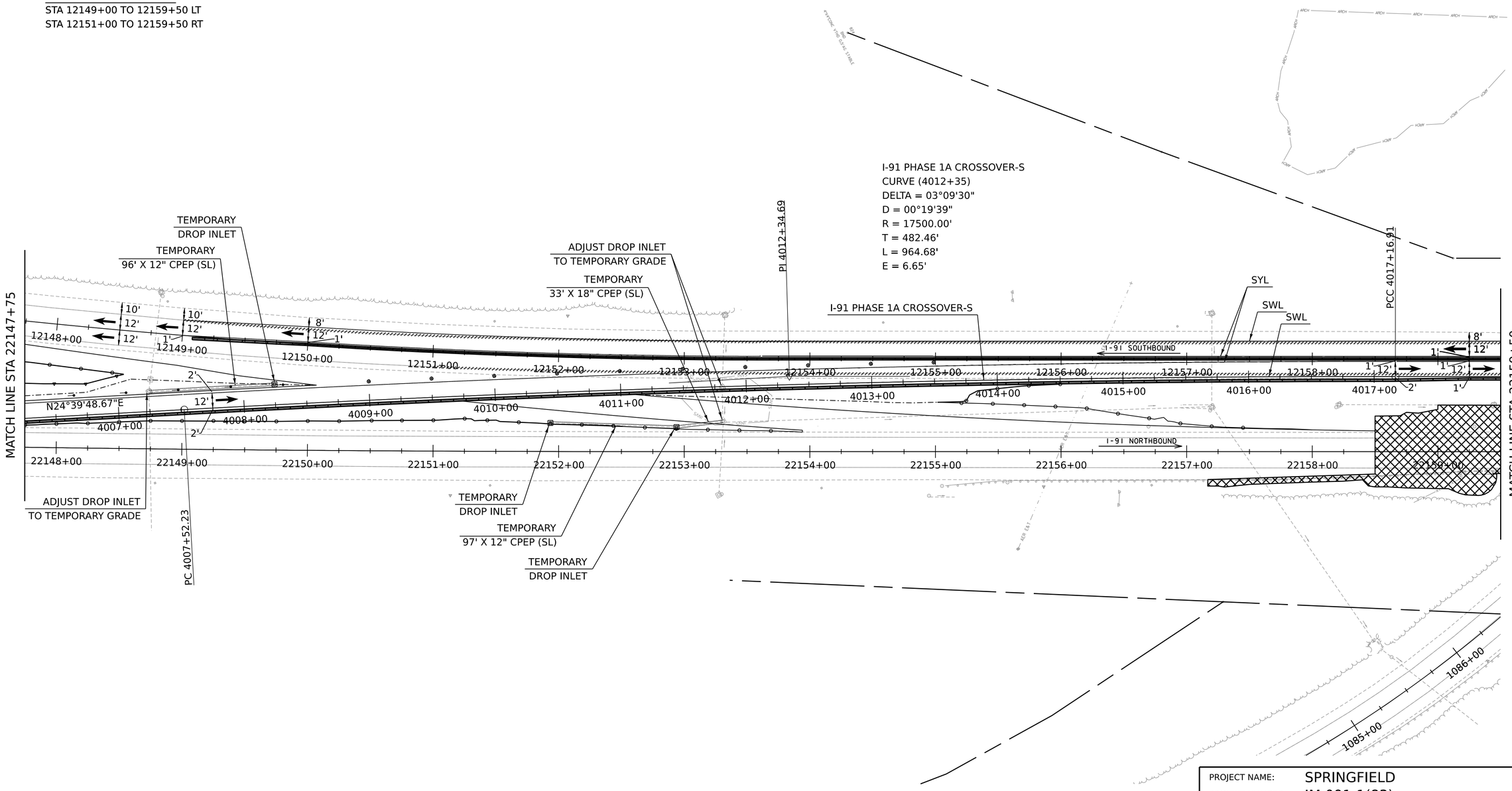
TEMPORARY TRAFFIC BARRIER
STA 4006+25 TO 12160+06 RT
STA 12149+08 TO 12159+50 CL

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 4006+25 LT TO 12159+50 RT (SOLID)
STA 12149+00 CL TO 12159+50 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 4006+25 CL TO 12159+50 RT (SOLID)
STA 12149+00 TO 12159+50 LT (SOLID)

PAVEMENT MARKING MASK
STA 12149+00 TO 12159+50 LT
STA 12151+00 TO 12159+50 RT





SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 2	SHEET 165 OF 922

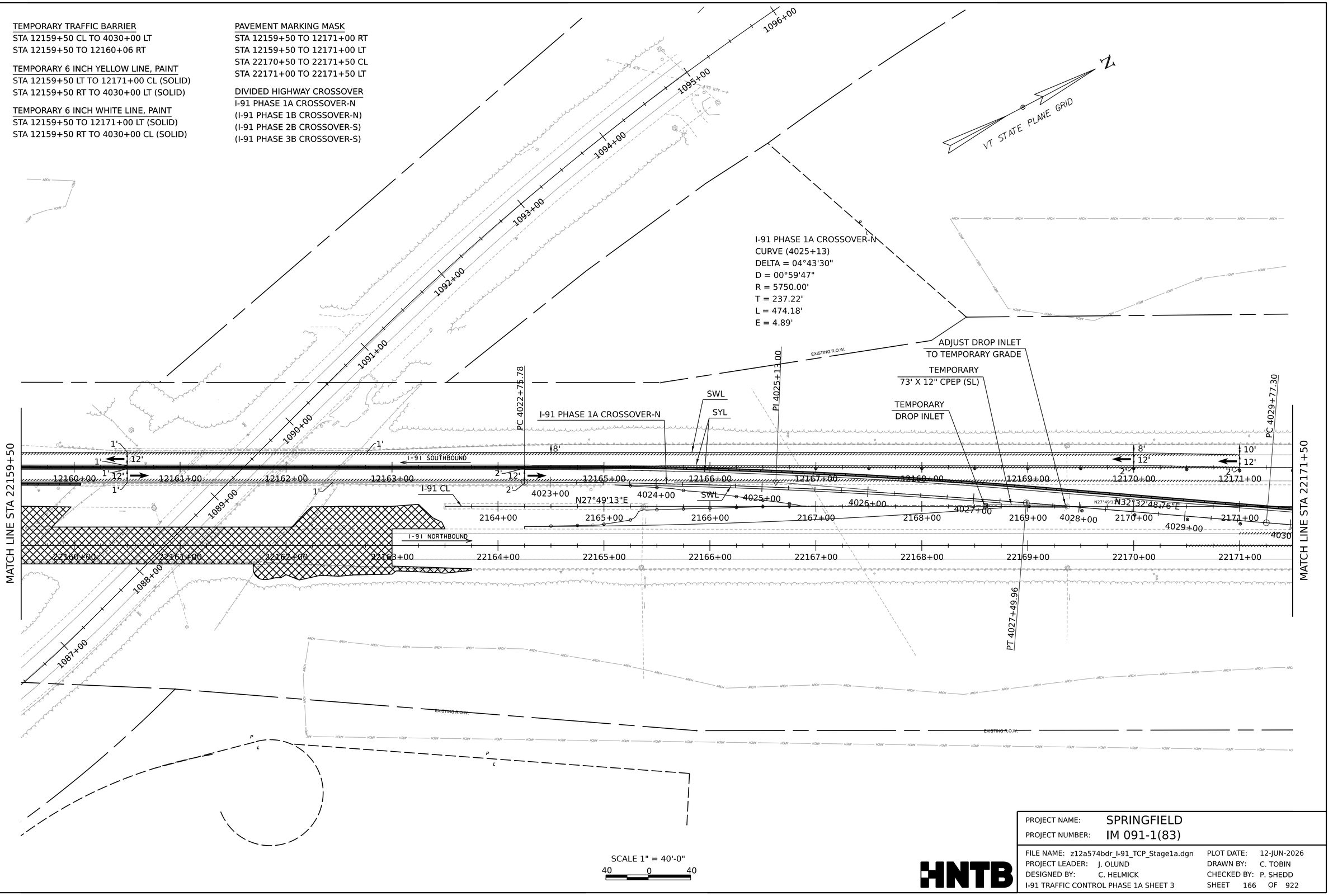
TEMPORARY TRAFFIC BARRIER
STA 12159+50 CL TO 4030+00 LT
STA 12159+50 TO 12160+06 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12159+50 LT TO 12171+00 CL (SOLID)
STA 12159+50 RT TO 4030+00 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12159+50 TO 12171+00 LT (SOLID)
STA 12159+50 RT TO 4030+00 CL (SOLID)

PAVEMENT MARKING MASK
STA 12159+50 TO 12171+00 RT
STA 12159+50 TO 12171+00 LT
STA 22170+50 TO 22171+50 CL
STA 22171+00 TO 22171+50 LT

DIVIDED HIGHWAY CROSSOVER
I-91 PHASE 1A CROSSOVER-N
(I-91 PHASE 1B CROSSOVER-N)
(I-91 PHASE 2B CROSSOVER-S)
(I-91 PHASE 3B CROSSOVER-S)



SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 3		SHEET	166 OF 922

HNTB

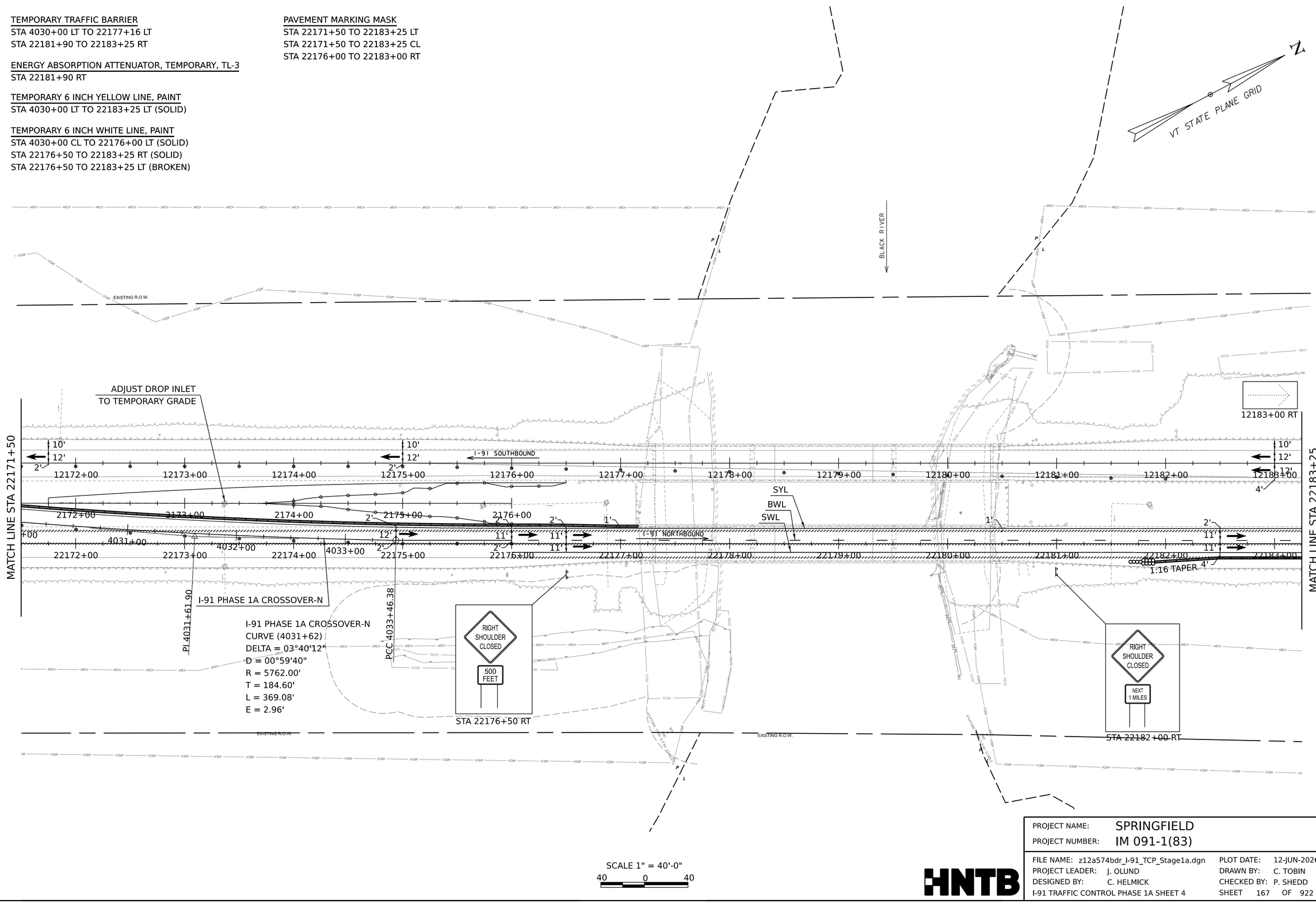
TEMPORARY TRAFFIC BARRIER
STA 4030+00 LT TO 22177+16 LT
STA 22181+90 TO 22183+25 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22181+90 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 4030+00 LT TO 22183+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 4030+00 CL TO 22176+00 LT (SOLID)
STA 22176+50 TO 22183+25 RT (SOLID)
STA 22176+50 TO 22183+25 LT (BROKEN)

PAVEMENT MARKING MASK
STA 22171+50 TO 22183+25 LT
STA 22171+50 TO 22183+25 CL
STA 22176+00 TO 22183+00 RT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 4	SHEET 167 OF 922

HNTB

TEMPORARY TRAFFIC BARRIER
STA 22183+25 TO 22194+75 RT

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22183+25 TO 22194+75 RT (BROKEN)
STA 22183+25 TO 22194+75 RT (SOLID)

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22183+25 TO 22194+75 LT (SOLID)

PAVEMENT MARKING MASK
STA 22183+25 TO 22194+75 LT, CL & RT

VT STATE PLANE GRID

STA 12188+00 RT/LT

WORK ZONE
SPEED LIMIT 55

STA 12192+75 RT/LT

55 MPH

INSTALL DRAINAGE UTILIZING SHORT TERM LANE CLOSURES

MATCH LINE STA 22183+25

MATCH LINE STA 22194+75

I-91 SOUTHBOUND

I-91 NORTHBOUND

12184+00 12185+00 12186+00 12187+00 12188+00 12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

SYL
BWL
SWL

2' 11' 11' 4'

EXISTING R.O.W.

STA 22187+00 RT/LT

WORK ZONE
SPEED LIMIT 55

STA 22192+70 RT

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 5		SHEET	168 OF 922

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22205+14 RT
STA 22205+85 RT

TEMPORARY TRAFFIC BARRIER
STA 22194+75 TO 22196+87 RT
STA 22205+85 TO 22206+50 RT
EXIST NB OFF RAMP = 320'

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22194+75 TO 22196+87 RT (SOLID)
STA 22194+75 TO 22206+50 LT (BROKEN)
STA 22206+25 TO 22206+50 RT (SOLID)
EXIST NB ON RAMP TO EXIST NB OFF RAMP (SOLID) = 1,607'

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22194+75 TO 22206+50 LT (SOLID)
EXIST NB ON RAMP = 320'
EXIST NB OFF RAMP = 295'

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 22196+87 TO 22199+62 RT (SOLID)
STA 22196+92 TO 22199+62 RT (SOLID)
STA 22199+62 TO 22204+03 RT (DASHED)
STA 22204+03 TO 22206+20 RT (SOLID)
STA 22204+03 TO 22206+25 RT (SOLID)

PAVEMENT MARKING MASK
STA 22194+75 TO 22206+50 LT, CL, & RT
STA 22204+88 TO 22206+10 RT (CHEVRONS)
EXIST NB ON RAMP (LT STRIPE) = 541'
EXIST NB ON RAMP (RT STRIPE) = 178'
EXIST NB ON RAMP TO EXIST NB OFF RAMP = 1,010'
EXIST NB OFF RAMP (LT STRIPE) = 478'
EXIST NB OFF RAMP (RT STRIPE) = 140'

VT STATE PLANE GRID

STA 12198+00 RT/LT
LEFT LANE CLOSED 1500 FEET

12203+00 RT/LT
FINE DOUBLED FOR SPEEDING IN WORK ZONE

STA 22202+75 RT
RAMP NARROWS
25 MPH

MATCH LINE STA 22194+75

MATCH LINE STA 12206+50

MATCH LINE STA 22206+50

I-91 SOUTHBOUND

I-91 NORTHBOUND

SYL
BWL
SWL
DWL

1:16 TAPER
1:14 TAPER

TEMPORARILY CONNECT PIPE TO PROPOSED CB

TEMPORARY EARTH SUPPORT

TEMPORARY 68' X 24" CMP CULVERT EXTENSION

EXIT OPEN
STA 22196+00 RT

ROAD NARROWS

NOTE:
TRAFFIC CONTROL ON CHARLESTOWN RD NOT SHOWN, SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 6		SHEET	169 OF 922

HNTB

PAVEMENT MARKING MASK
STA 22206+50 TO 22217+25 LT, CL, & RT

TEMPORARY TRAFFIC BARRIER
STA 22206+50 TO 22217+25 RT
EXIST NB OFF RAMP (SEE PREVIOUS SHEET)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22206+50 TO 22217+25 LT (BROKEN)
STA 22206+50 TO 22217+25 RT (SOLID)

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22206+50 TO 22217+25 LT (SOLID)

VT STATE PLANE GRID

N

STA 12208+00 RT/LT

LEFT LANE CLOSED ½ MILE

STA 12213+00 RT/LT

SPEED LIMIT 55

MATCH LINE STA 12206+50

I-91 SOUTHBOUND

12207+00 12208+00 12209+00 12210+00 12211+00 12212+00 12213+00 12214+00 12215+00 12216+00

MATCH LINE STA 12216+25

MATCH LINE STA 22206+50

SYL
BWL
SWL

2' 11' 11' 4'

22207+00 22208+00 22209+00 22210+00 22211+00 22212+00 22213+00 22214+00 22215+00 22216+00 22217+00

I-91 NORTHBOUND

SPRINGFIELD

INSTALL DRAINAGE
UTILIZING SHORT TERM
LANE CLOSURES

MATCH LINE STA 22217+25

1' 11' 2' SYL SWL 4' 16' 6'

TEMPORARY
EARTH SUPPORT

TEMPORARY
EARTH SUPPORT

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 7		SHEET	170 OF 922

TEMPORARY TRAFFIC BARRIER
STA 22217+25 TO 22222+12 RT

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22217+25 TO 22222+00 LT (BROKEN)
STA 22217+25 TO 22224+00 RT (SOLID)
STA 22222+00 LT TO 22224+00 CL (SOLID)

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22217+25 TO 22224+00 LT (SOLID)

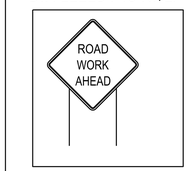
PAVEMENT MARKING MASK
STA 22217+25 TO 22224+00 LT, CL, & RT

VT STATE PLANE GRID

N

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

STA 12229+40 RT/LT



MATCH LINE STA 12216+25

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

I-91 SOUTHBOUND

12217+00 12218+00 12219+00 12220+00 12221+00 12222+00 12223+00 12224+00 12225+00 12226+00 12227+00 12228+00

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

SPENCER BROOK

INSTALL DRAINAGE
UTILIZING SHORT TERM
LANE CLOSURES

SYL
BWL
SWL

SWL

I-91 NORTHBOUND

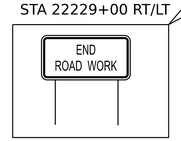
2' 11' 11' 4' 22218+00 22219+00 22220+00 22221+00 22222+00 22223+00 22224+00 22225+00 22226+00 22227+00 22228+00

2 11' 11' 4'

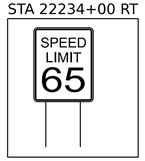
4' 12' 12' 10'

MATCH LINE STA 22217+25

STA 22229+00 RT/LT



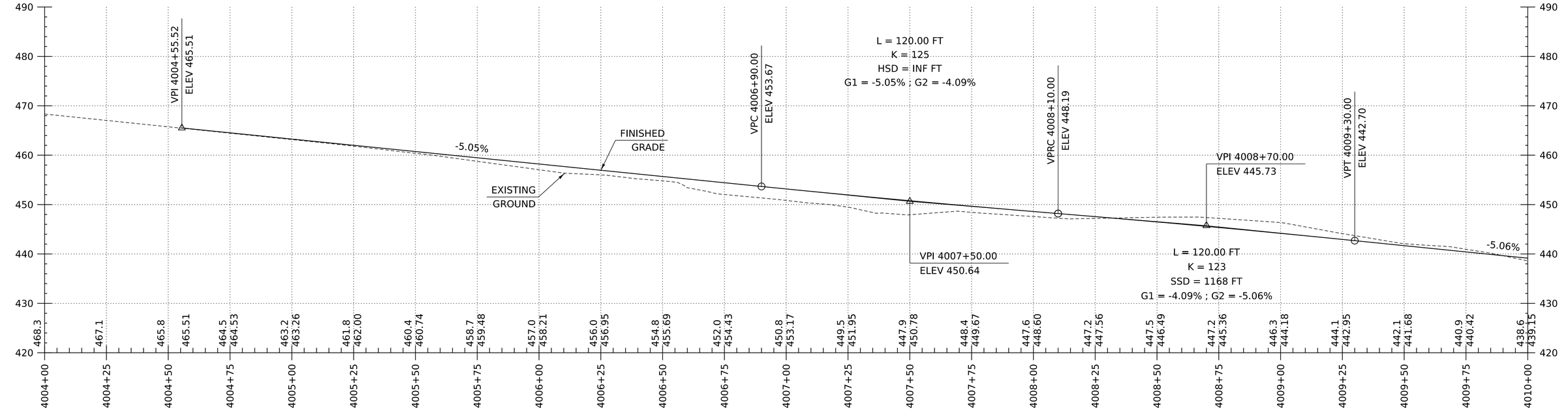
STA 22234+00 RT



SCALE 1" = 40'-0"
40 0 40

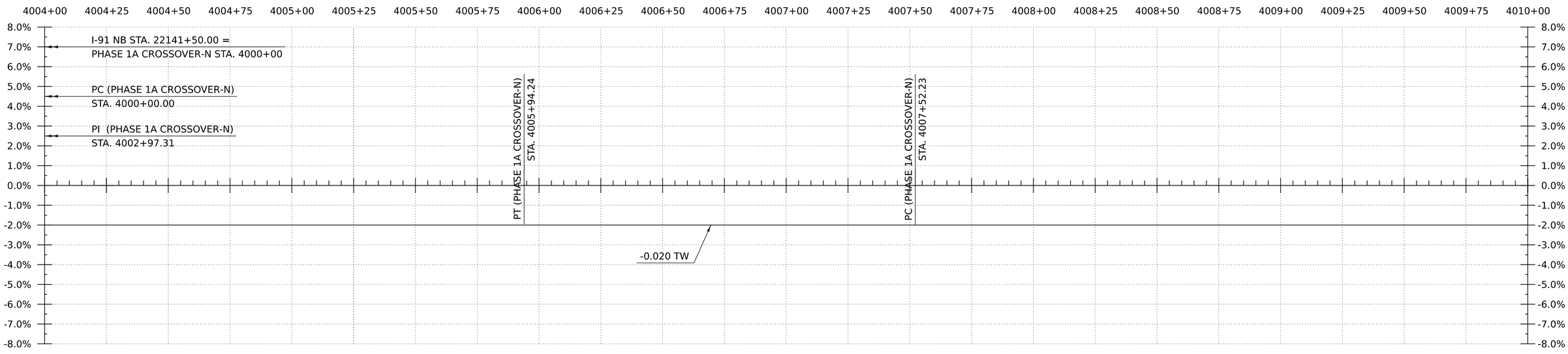
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1A SHEET 8		SHEET	171 OF 922



I-91 PHASE 1A CROSSOVER-N PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



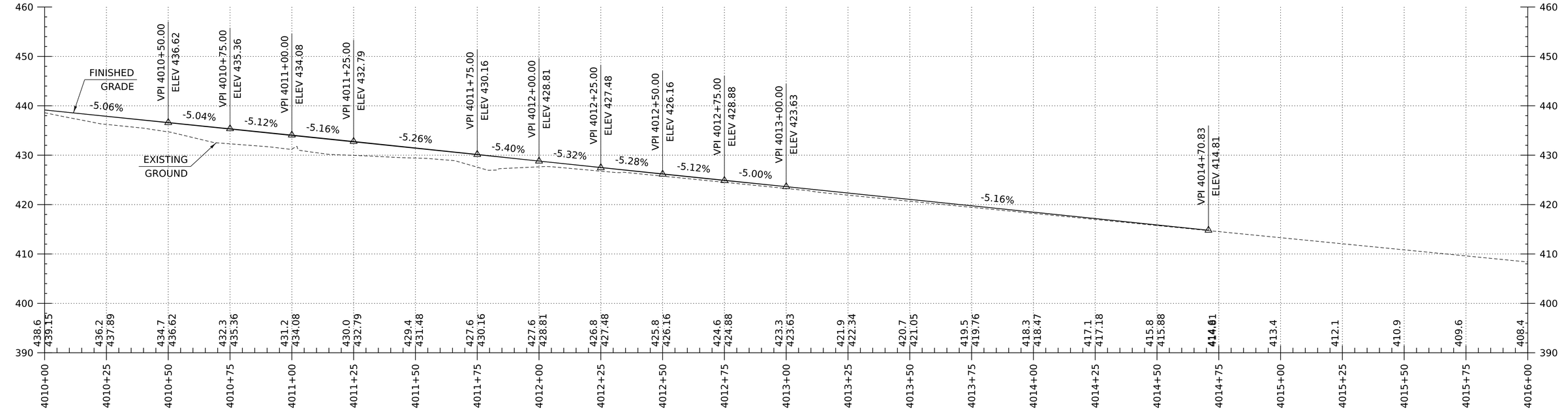
I-91 PHASE 1A CROSSOVER-N - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

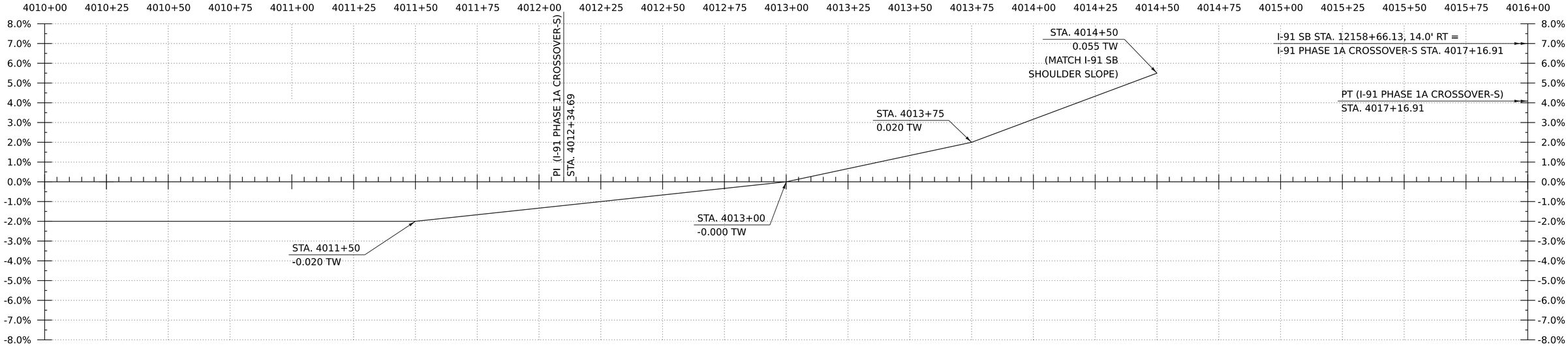
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pro_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S PROFILE 1		SHEET	172 OF 922



I-91 PHASE 1A CROSSOVER-N PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



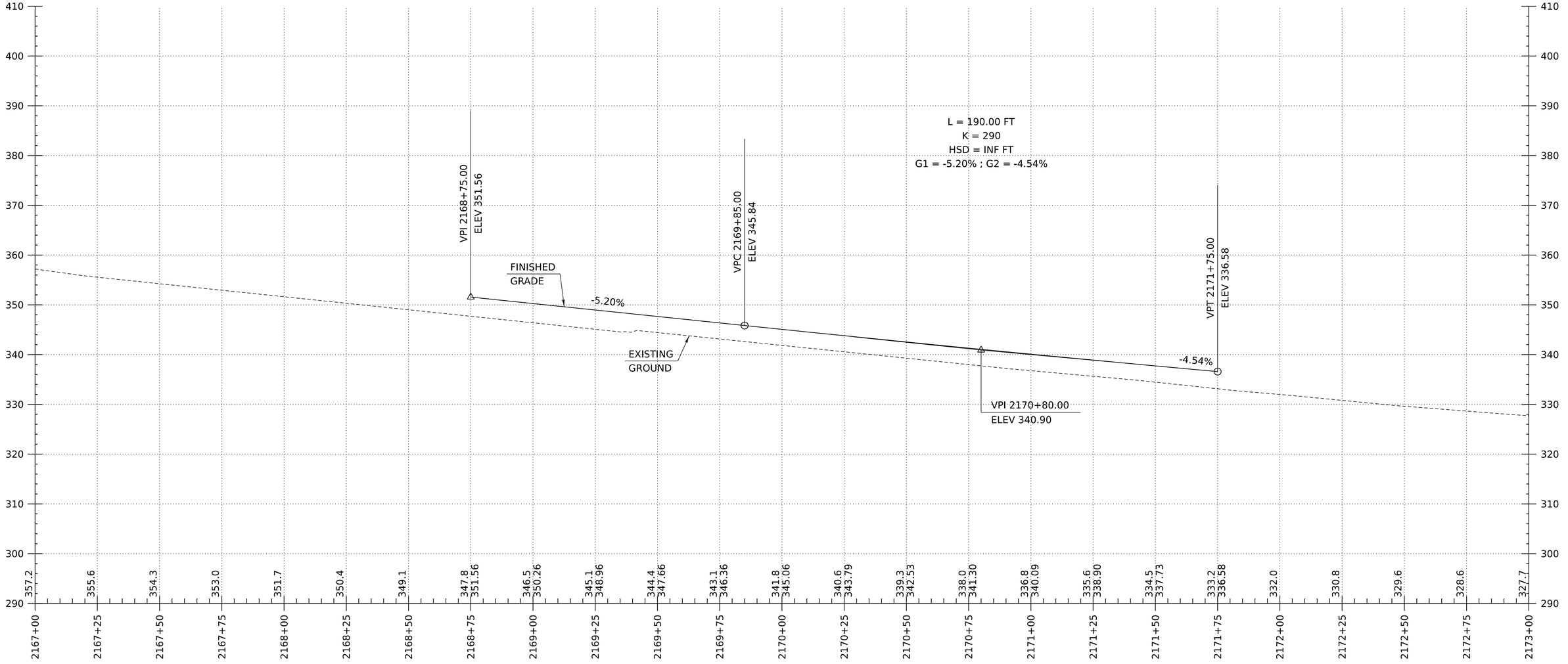
I-91 PHASE 1A CROSSOVER-N - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pro_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S PROFILE 2		SHEET	173 OF 922



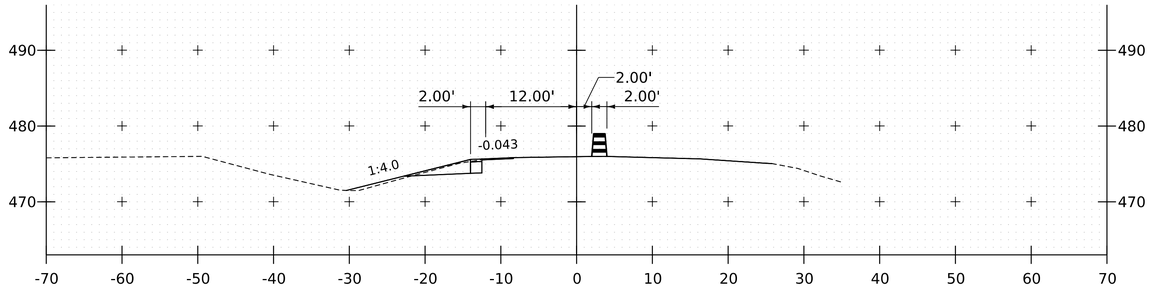
I-91 PHASE 1A CROSSOVER-N - PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'

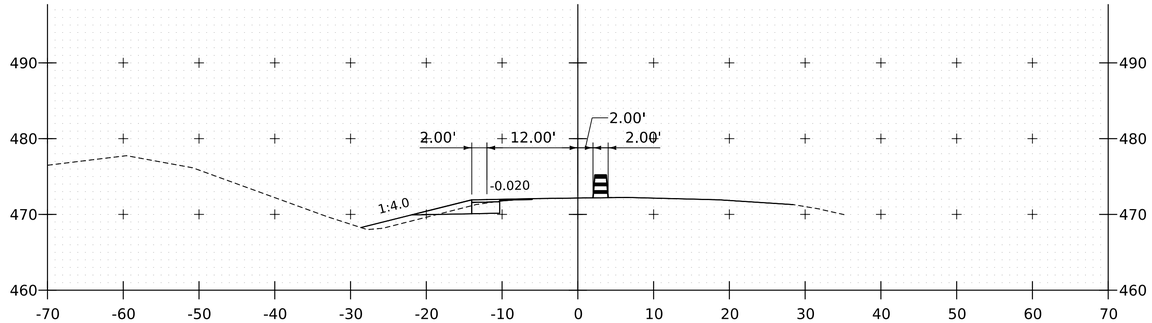
THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

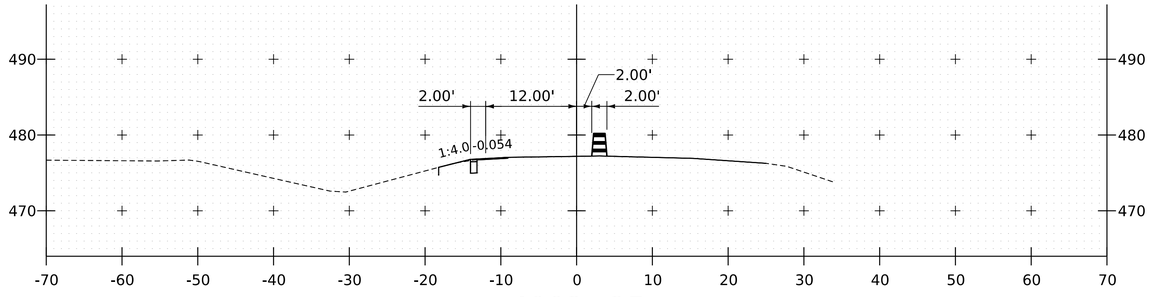
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_Xover_Ph1.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1A CROSSOVER-N PROFILE 1	SHEET 174 OF 922



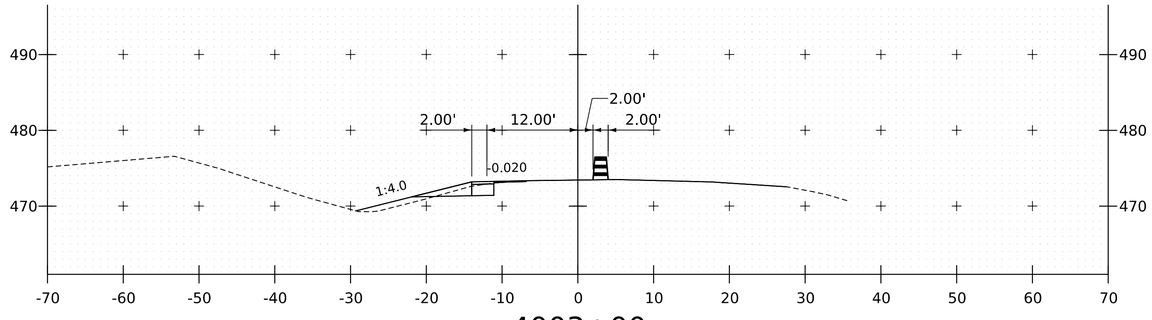
4002+50



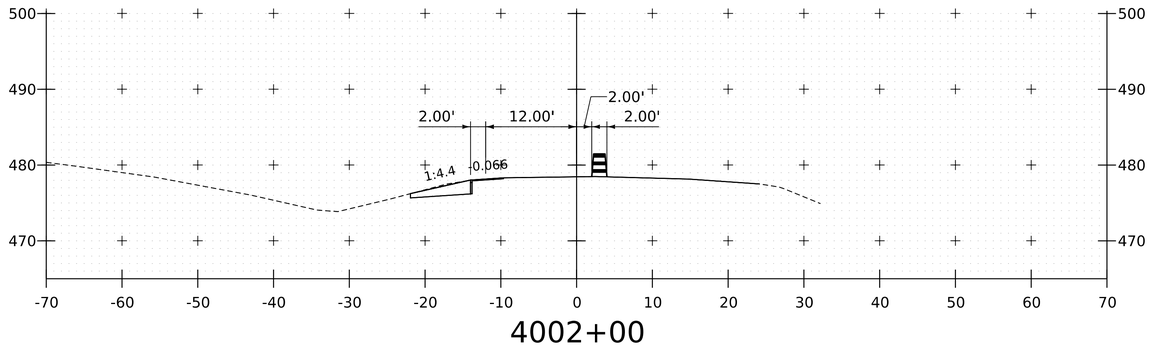
4003+25



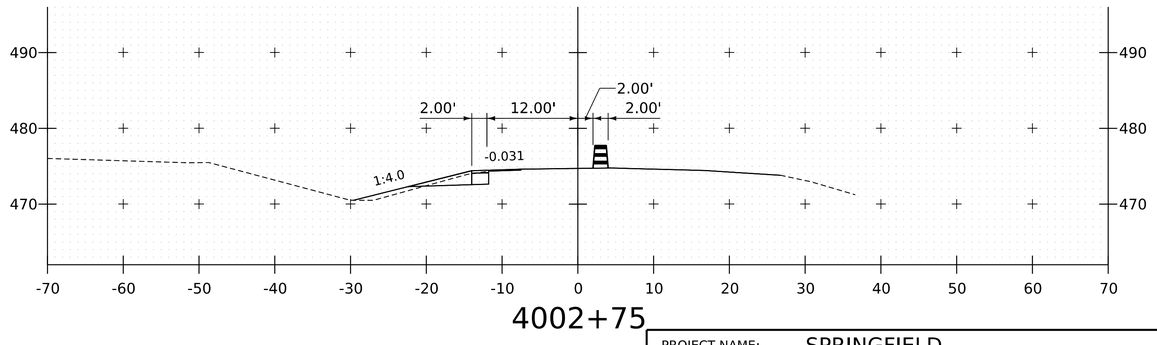
4002+25



4003+00



4002+00

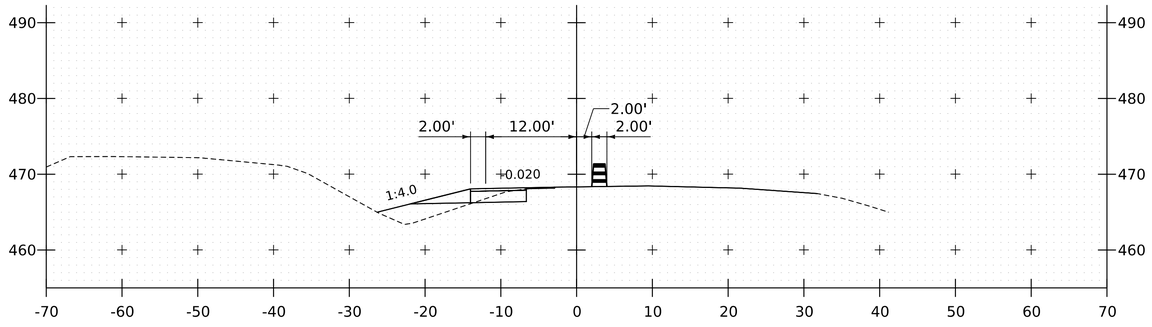


4002+75

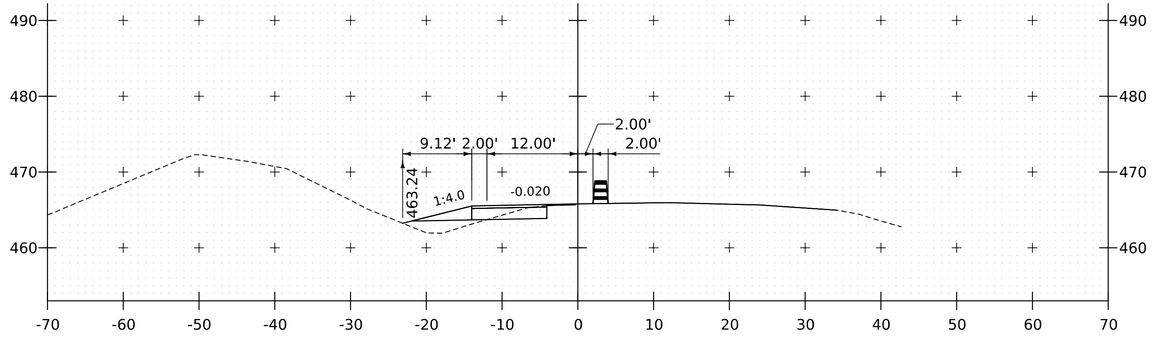
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_NB_Xover_S.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 1

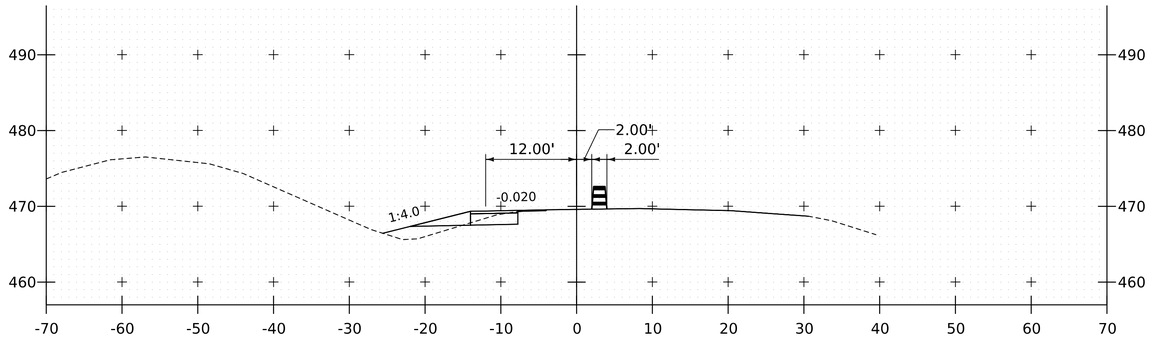
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 175 OF 922



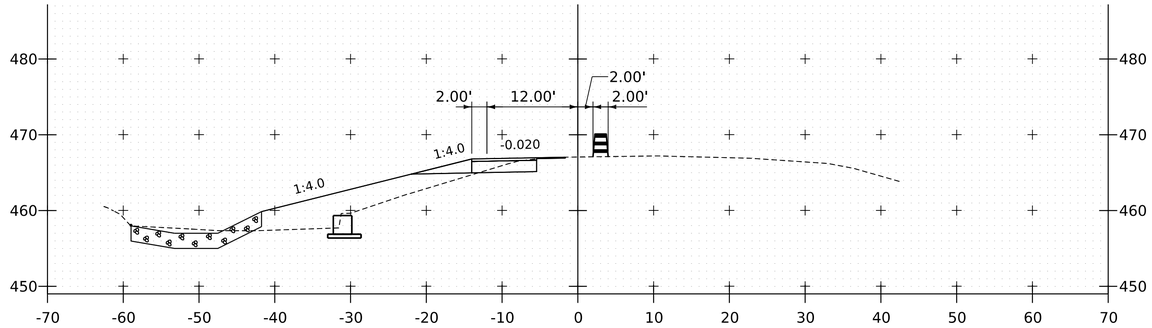
4004+00



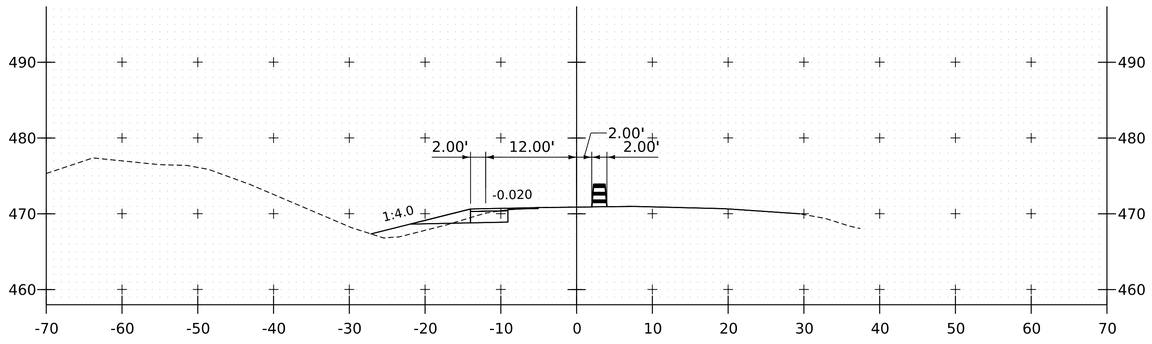
4004+50



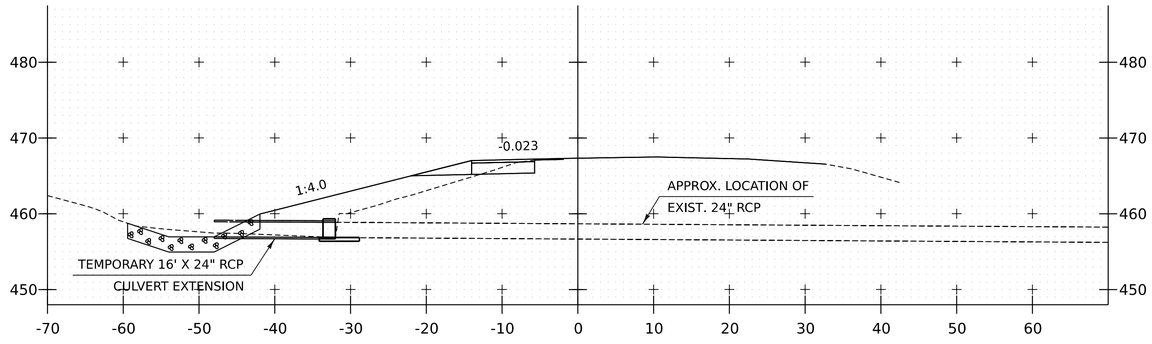
4003+75



4004+25



4003+50

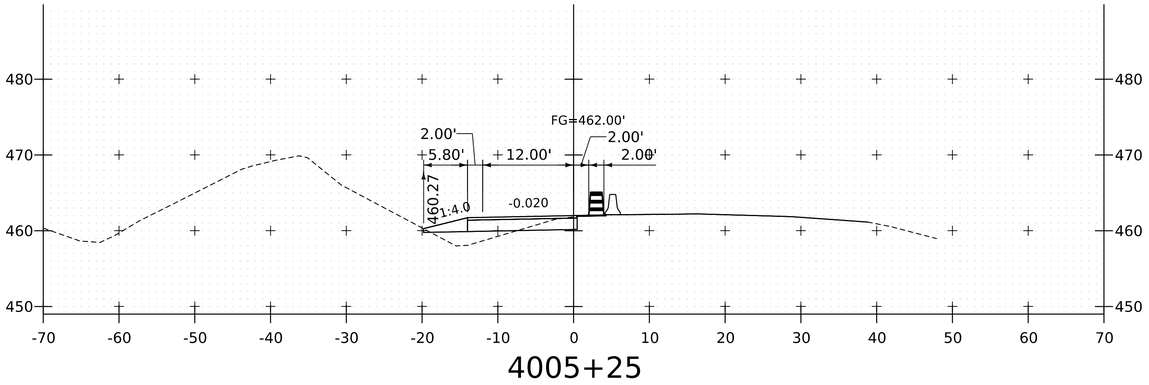


4004+20 (SKEWED ALONG PIPE)

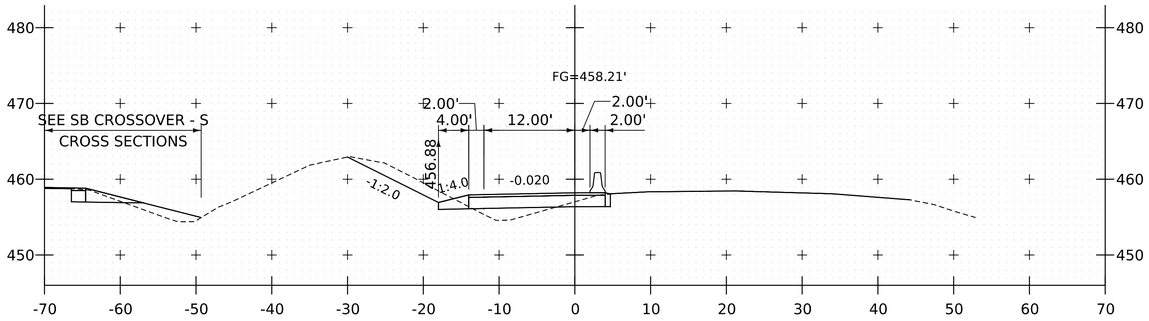
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 2		SHEET	176 OF 922

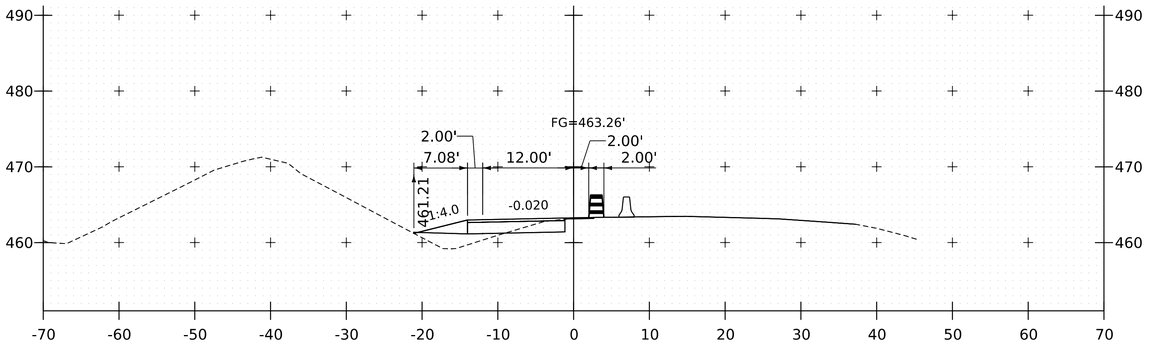
HNTB



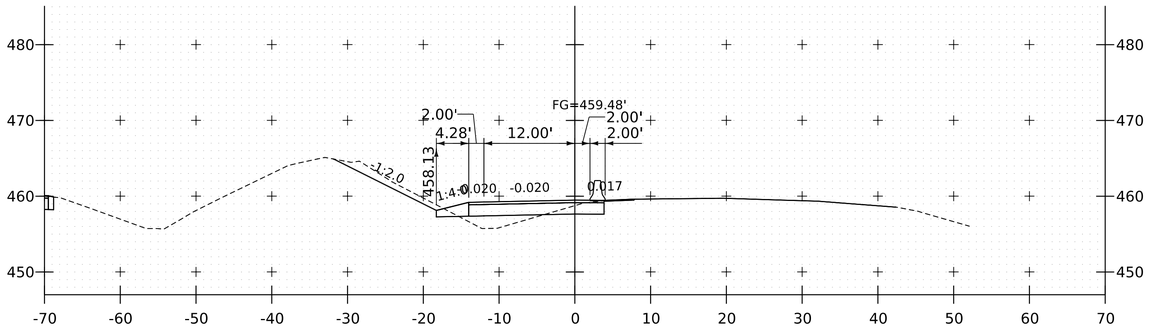
4005+25



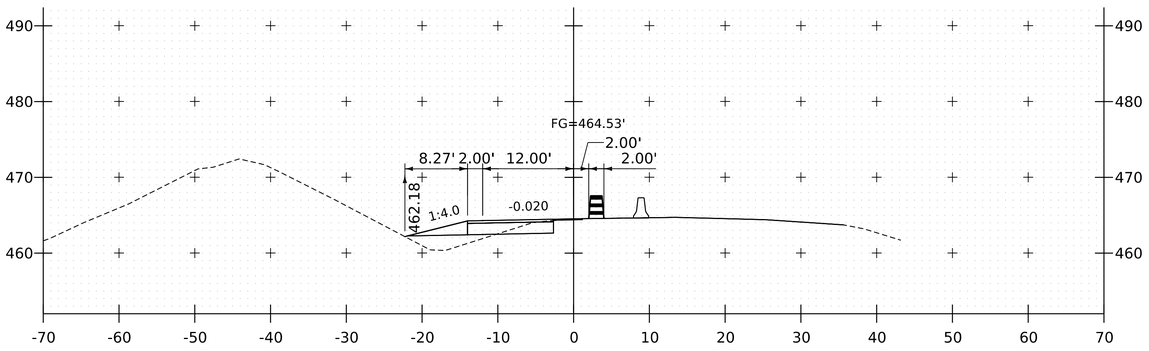
4006+00



4005+00



4005+75



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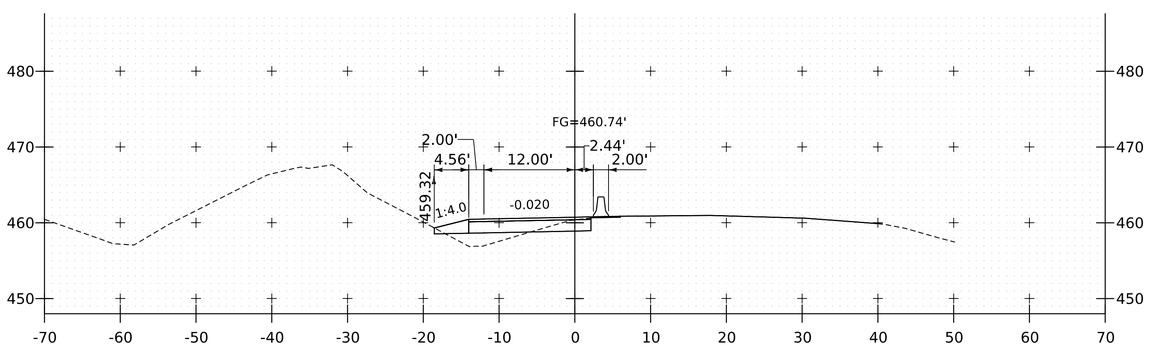
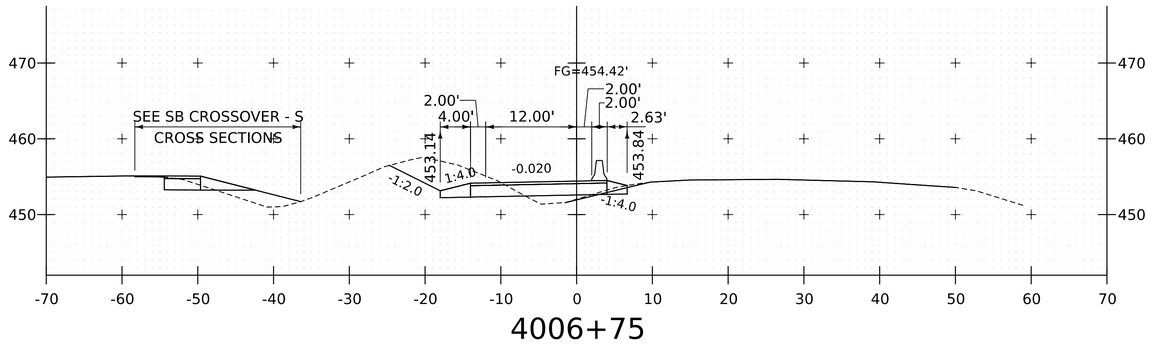


4005+50

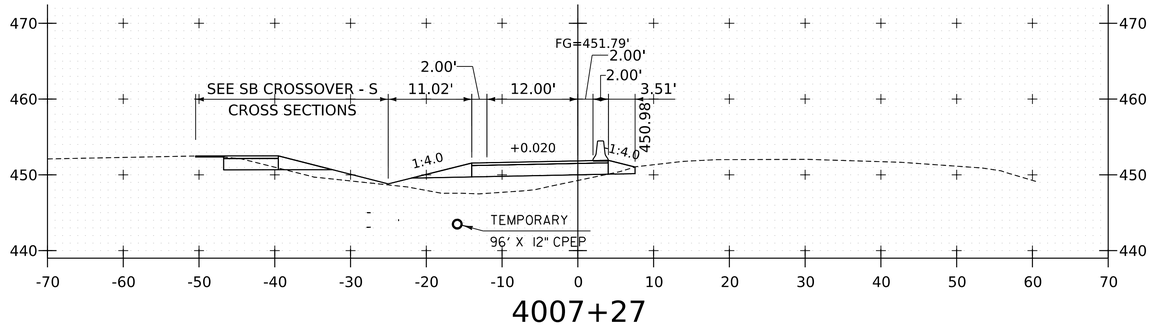
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 3		SHEET	177 OF 922

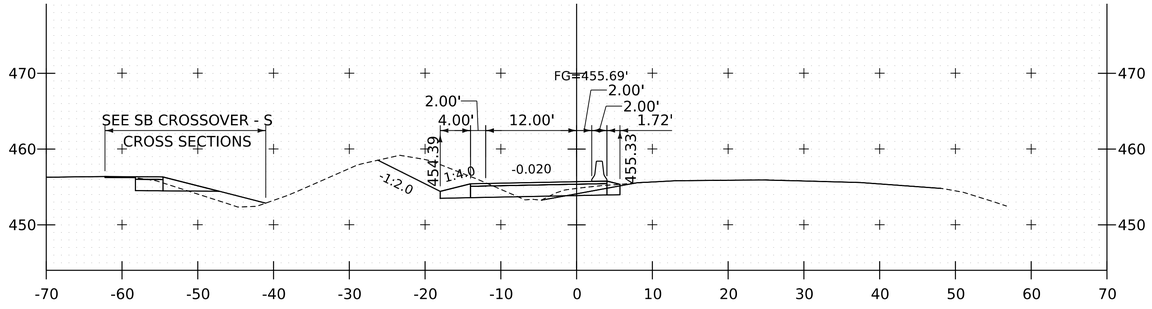
HNTB



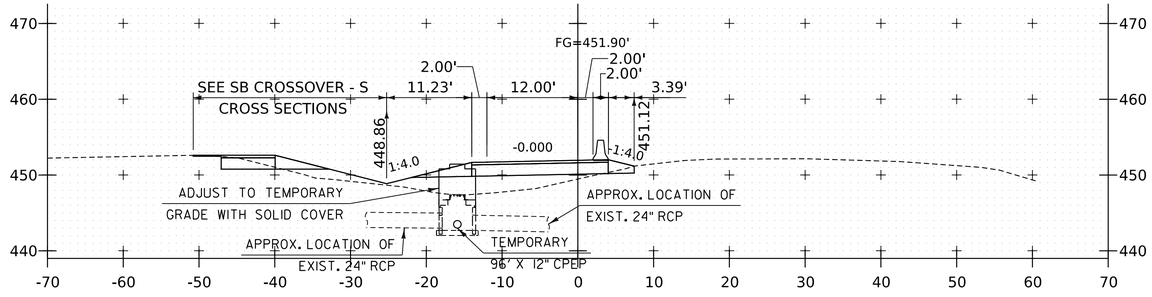
4006+75



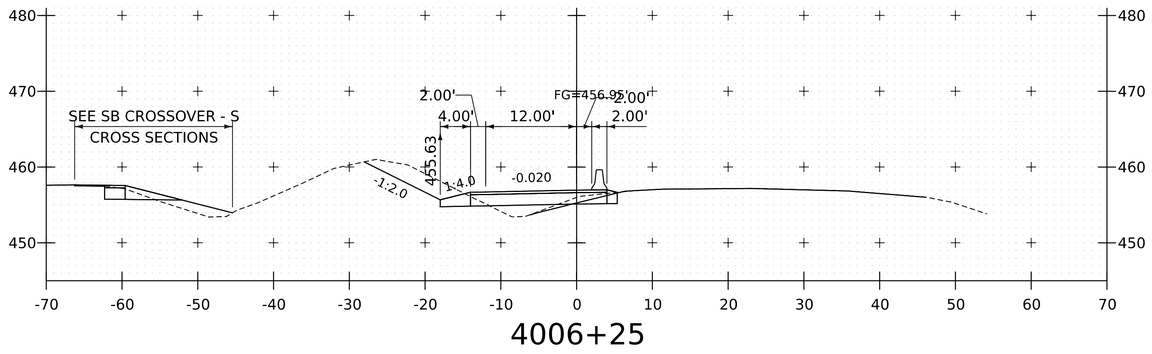
4007+27



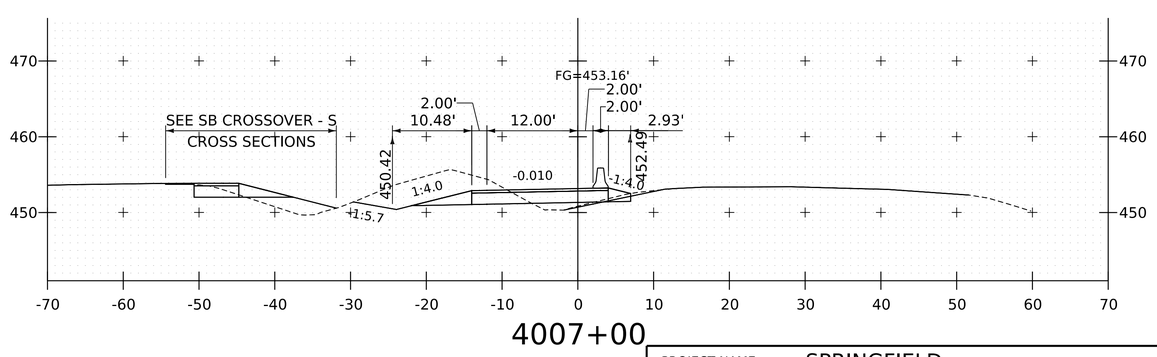
4006+50



4007+25



4006+25

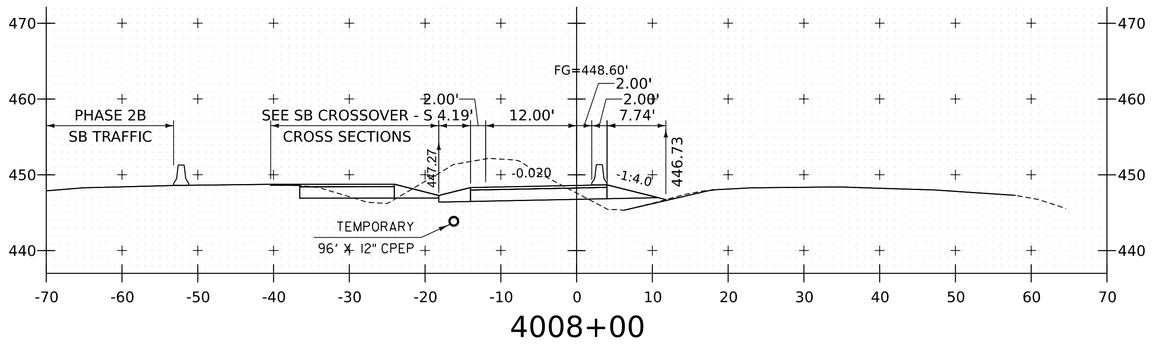


4007+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 4		SHEET	178 OF 922

HNTB



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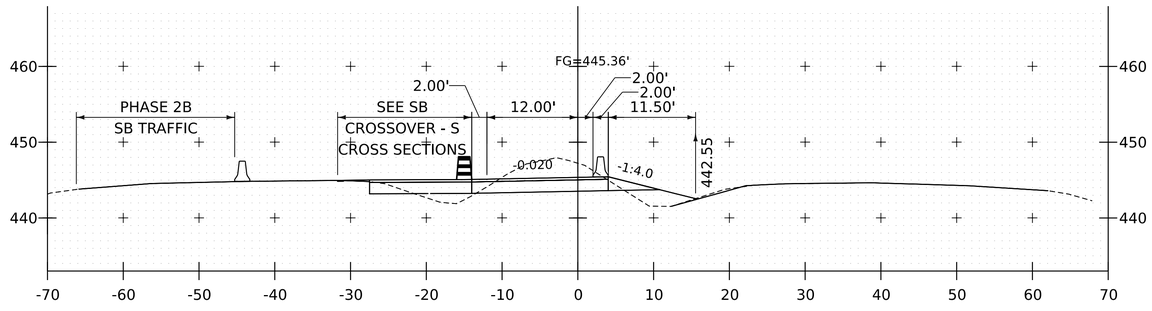

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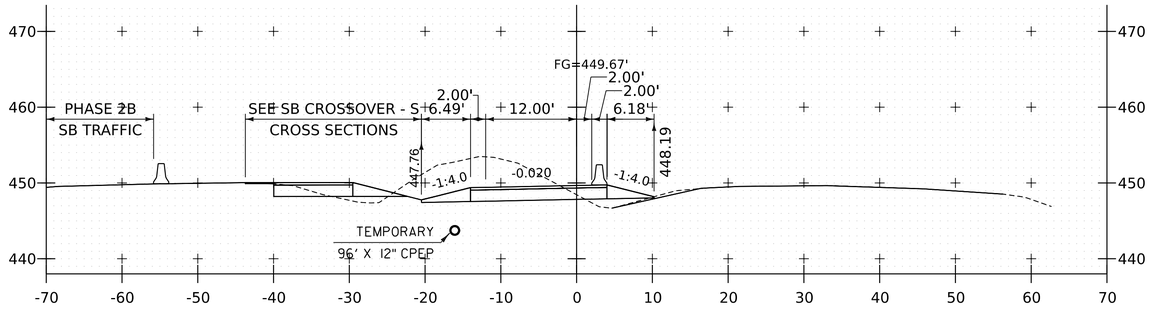

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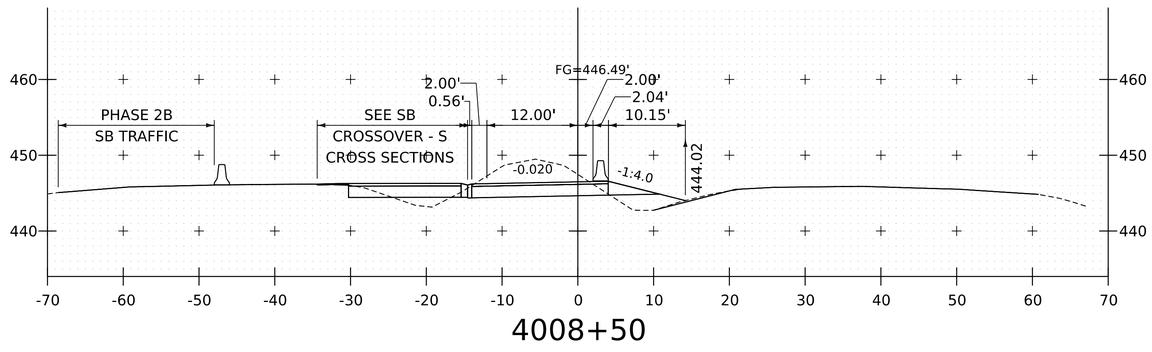

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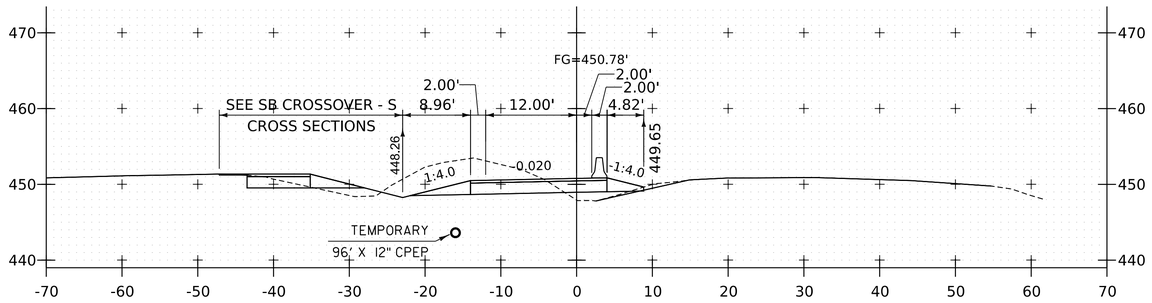

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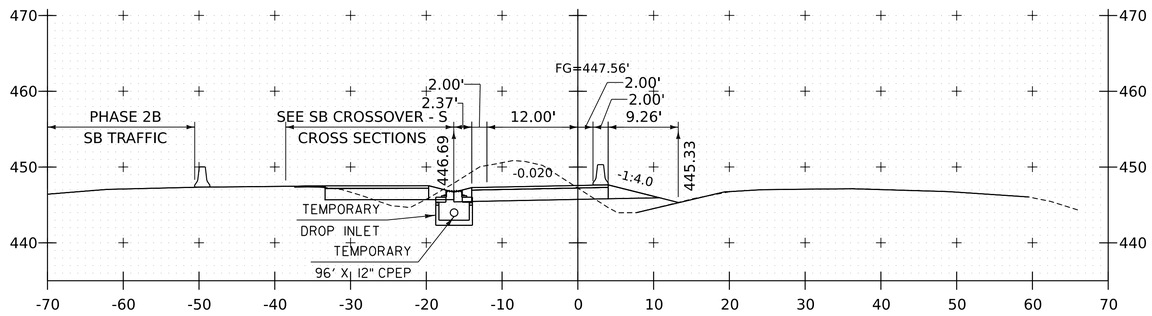

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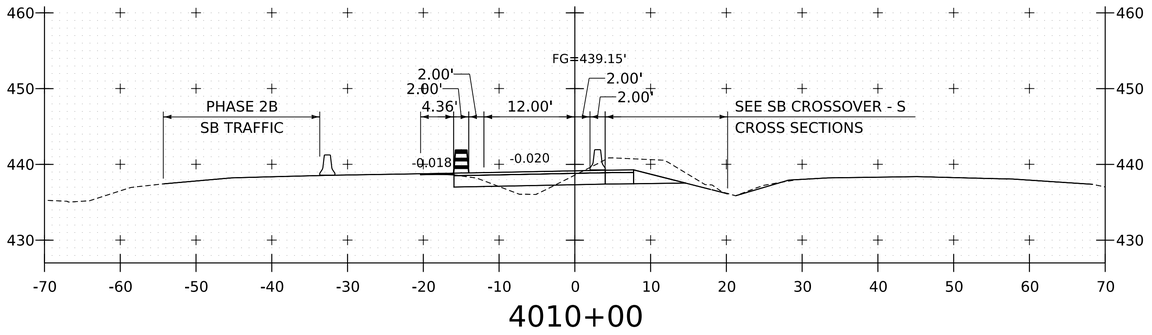
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 5		SHEET	179 OF 922

HNTB



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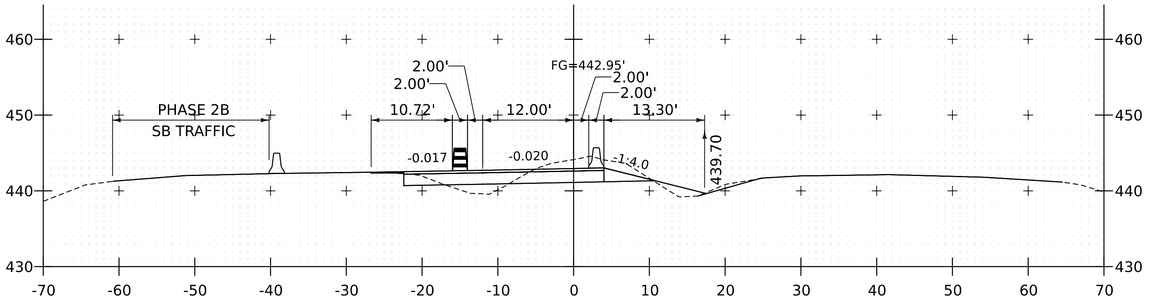

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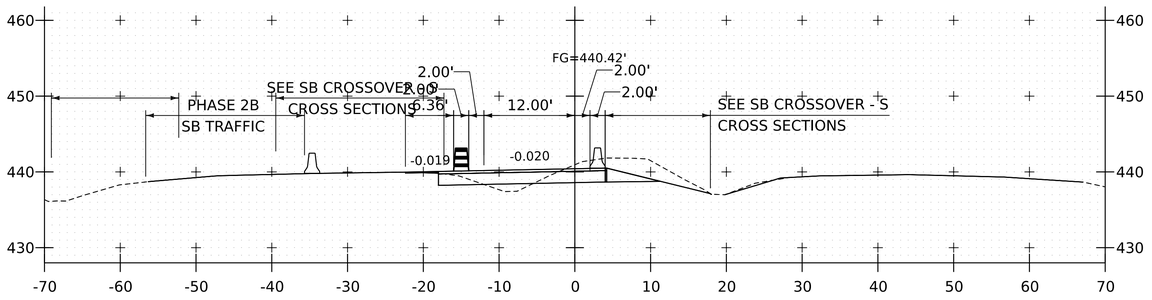

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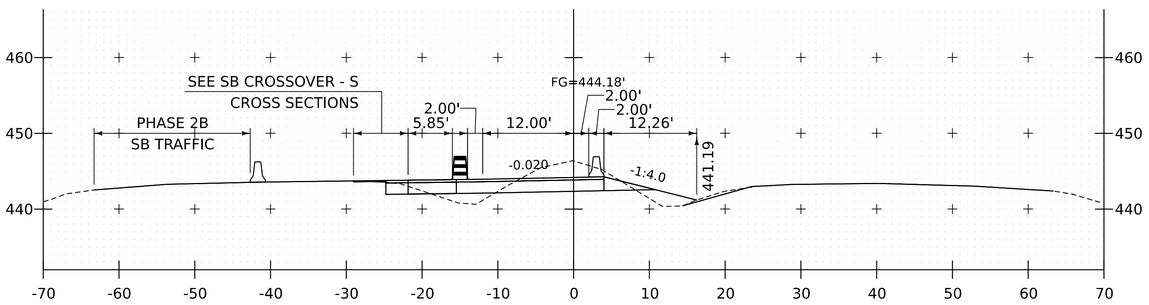

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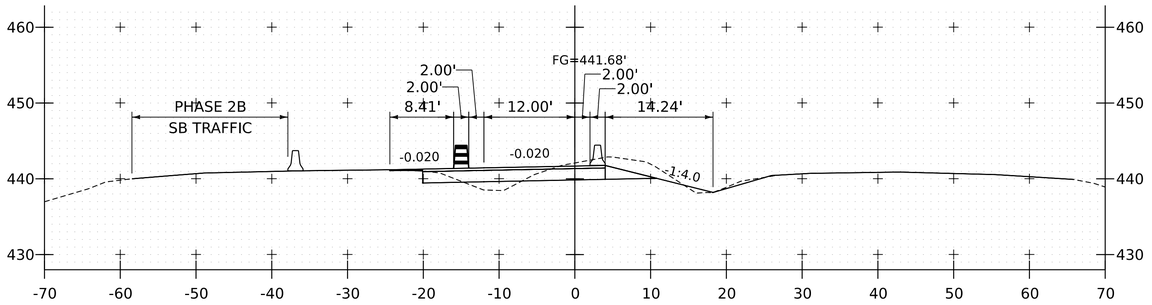

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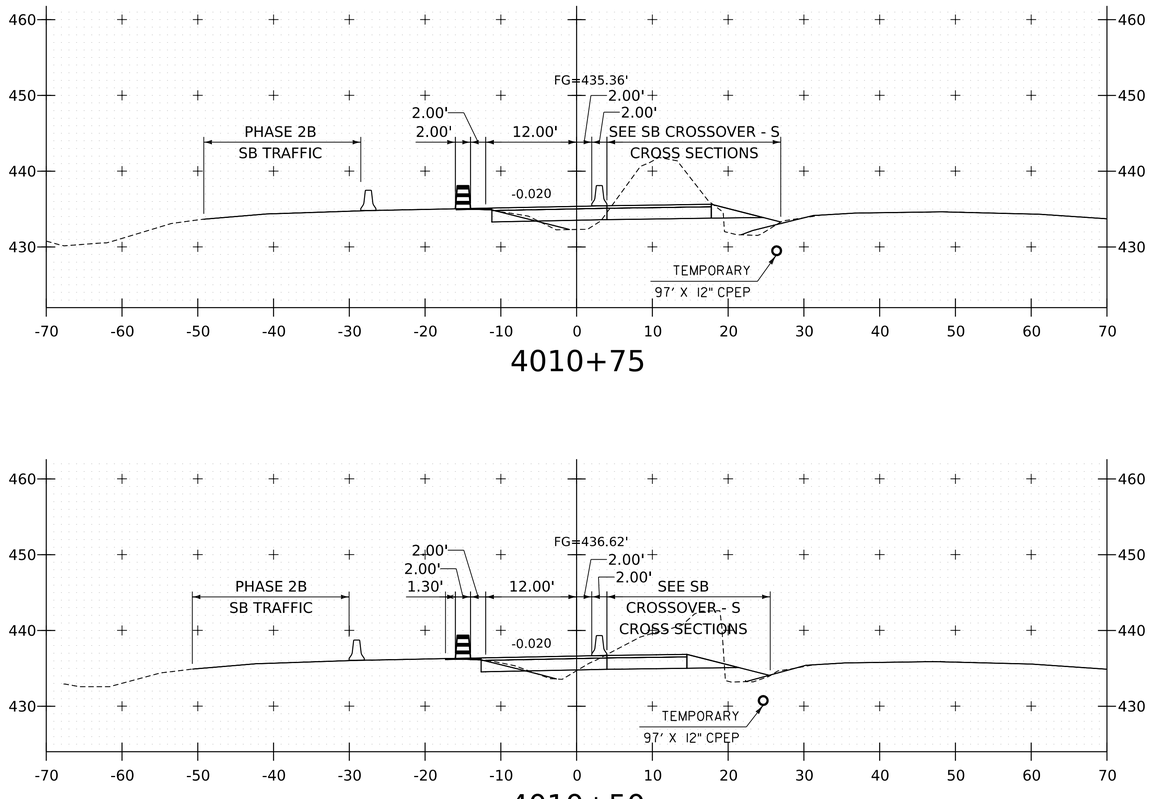
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_NB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 6		SHEET	180 OF 922



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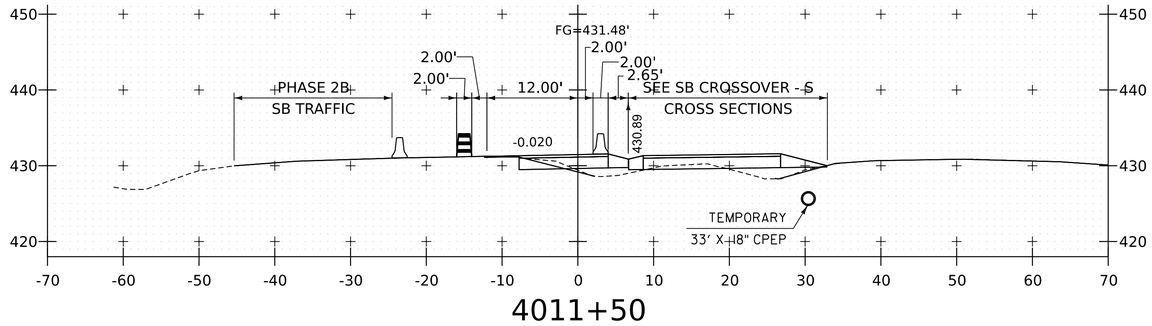

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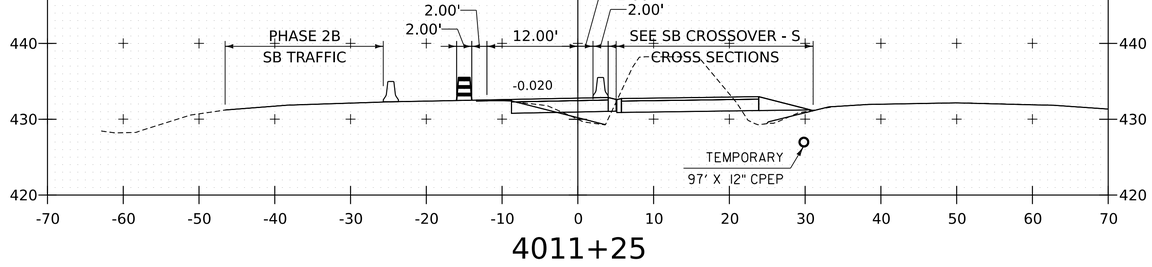
4010+50



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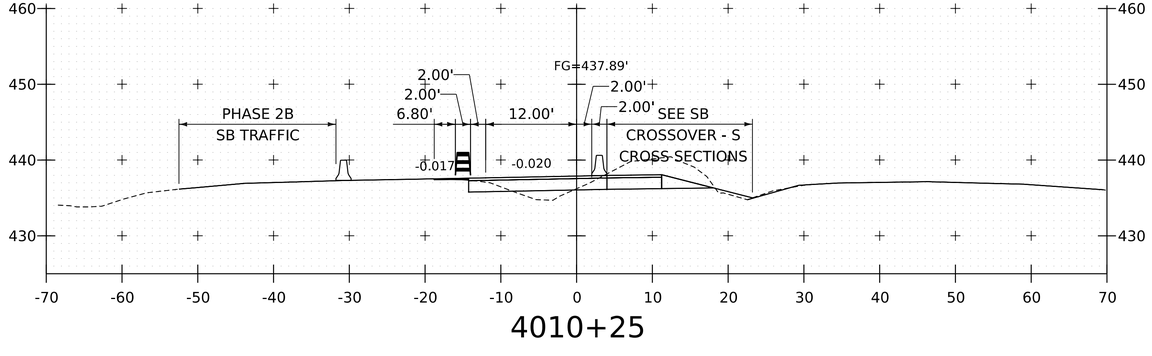

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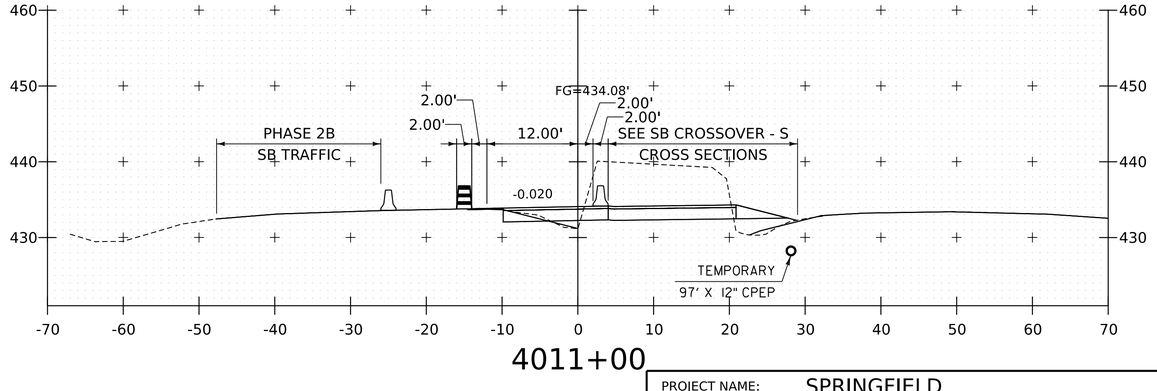


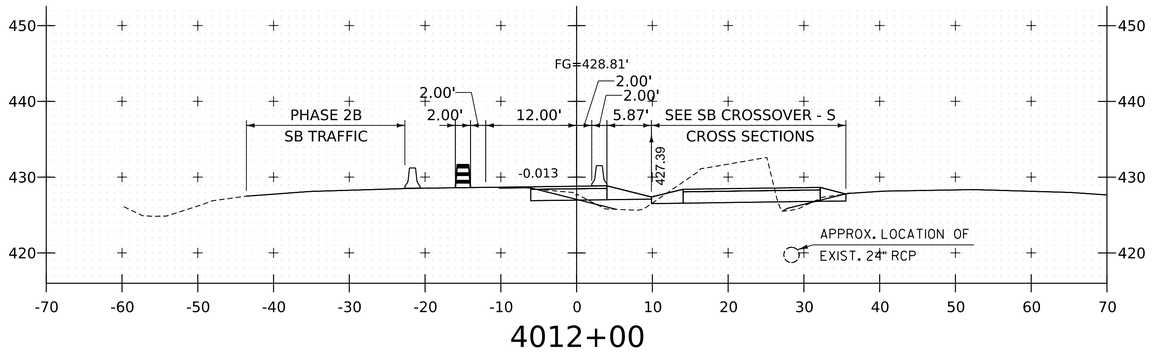
4011+00

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_NB_Xover_S.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 7

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 181 OF 922

HNTB



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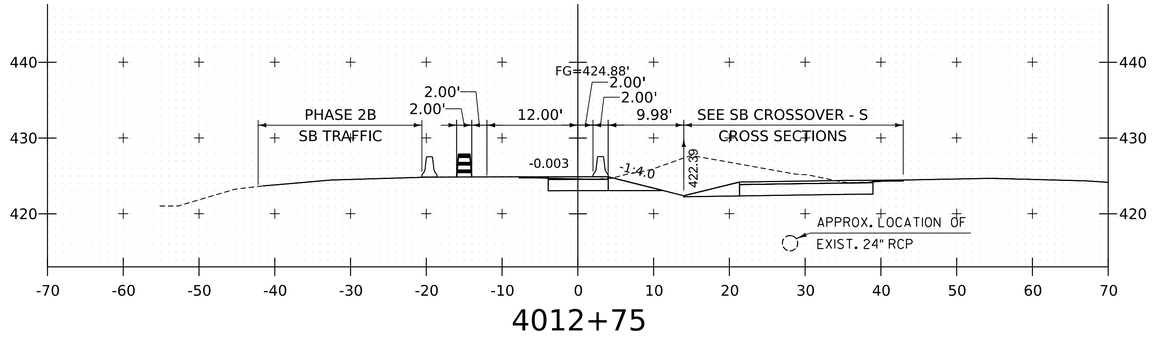

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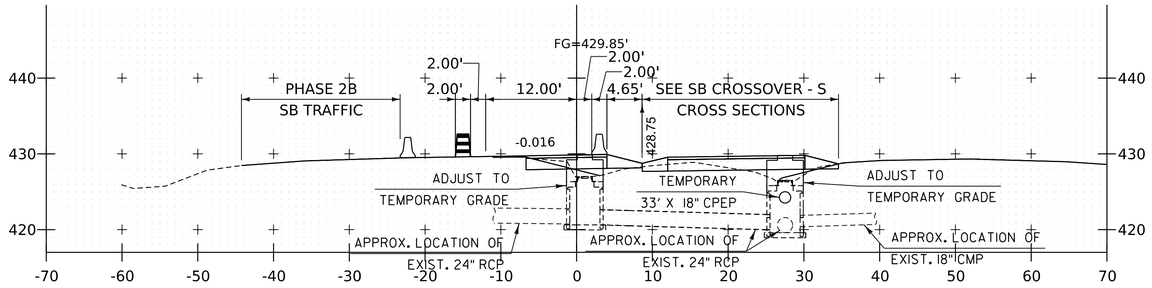

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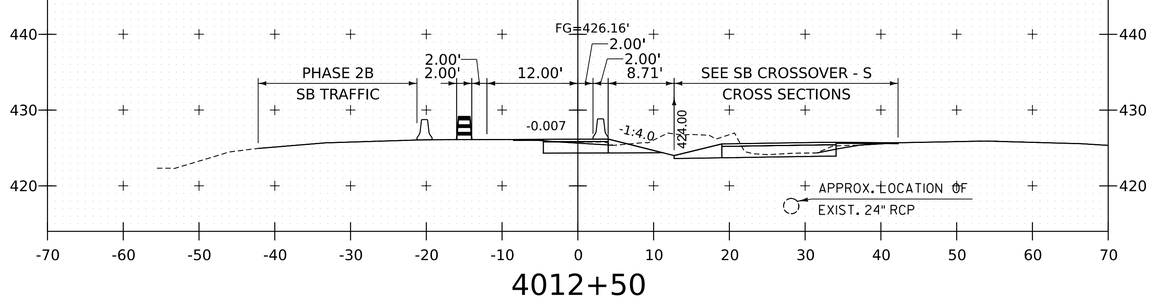

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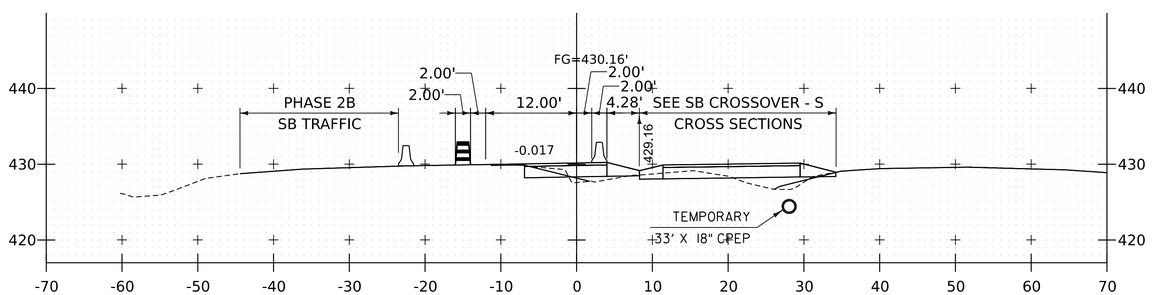

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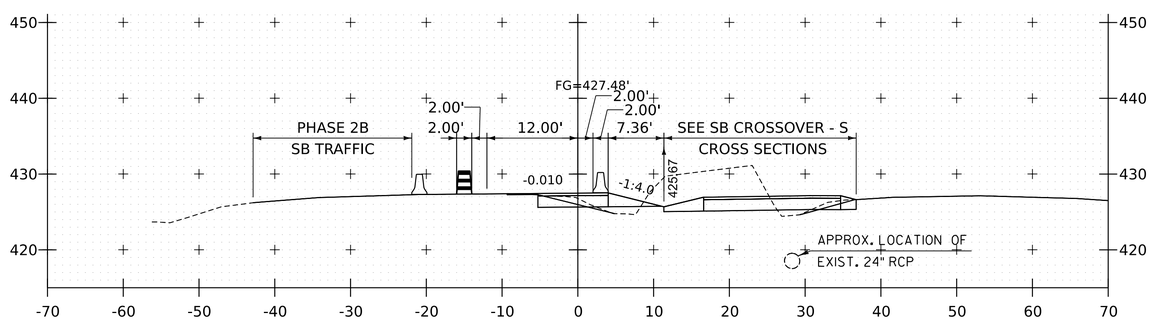
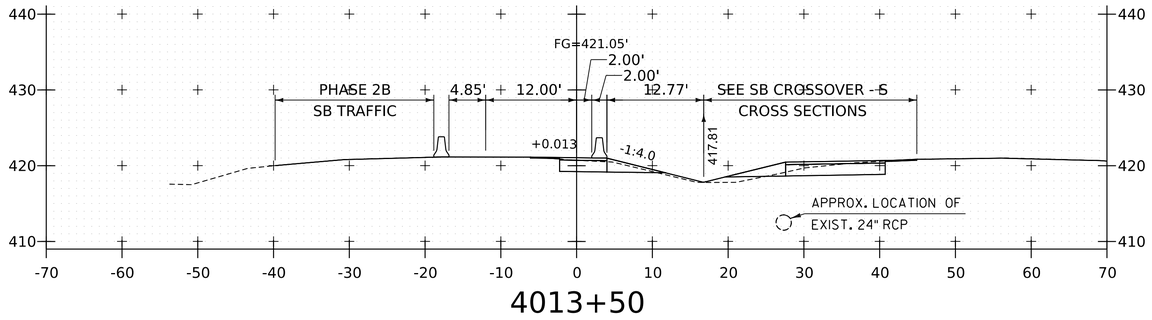


4012+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_NB_Xover_S.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 8	SHEET 182 OF 922

HNTB



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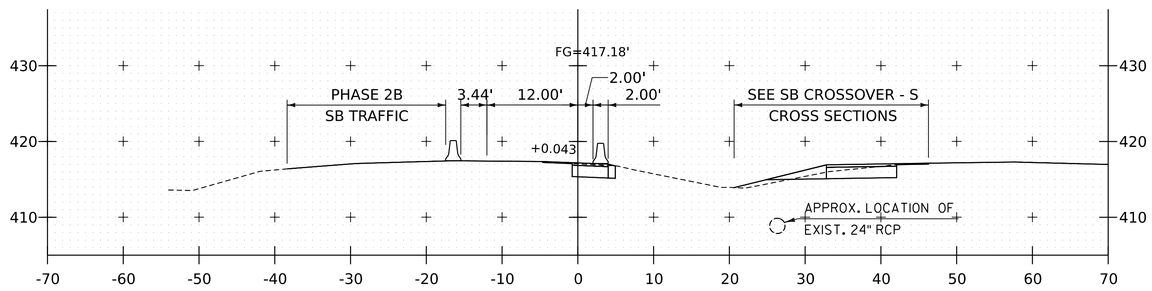

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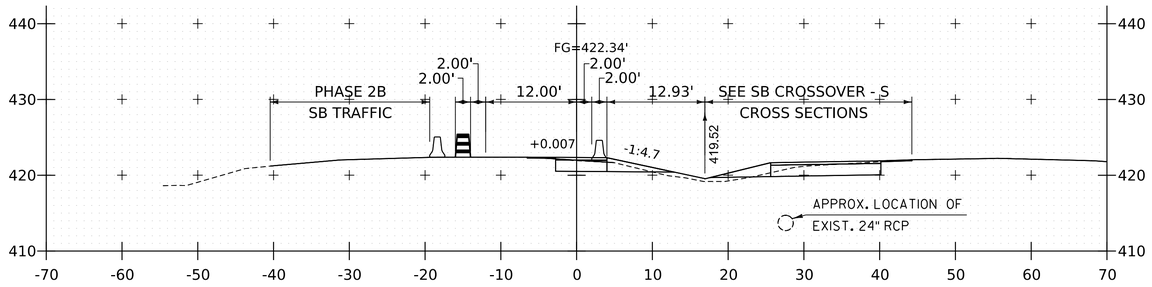

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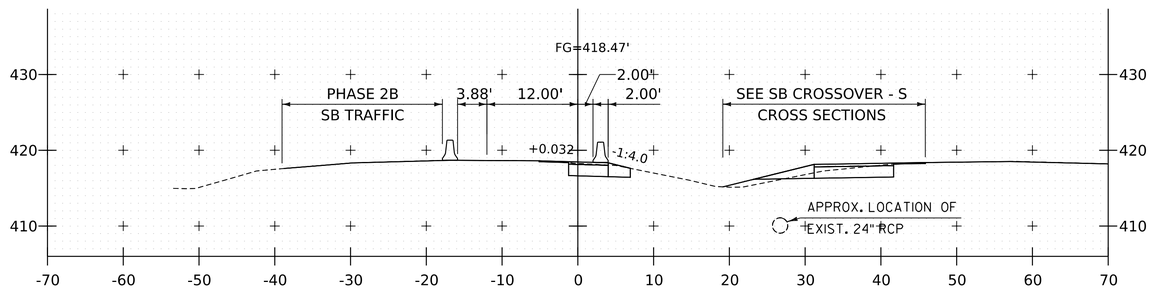

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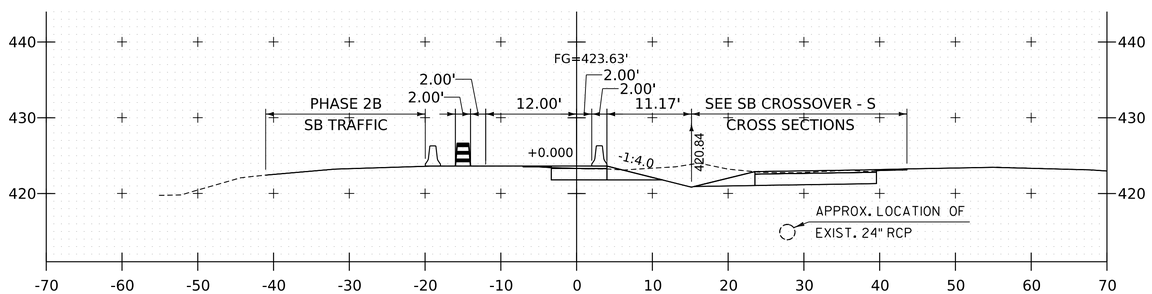

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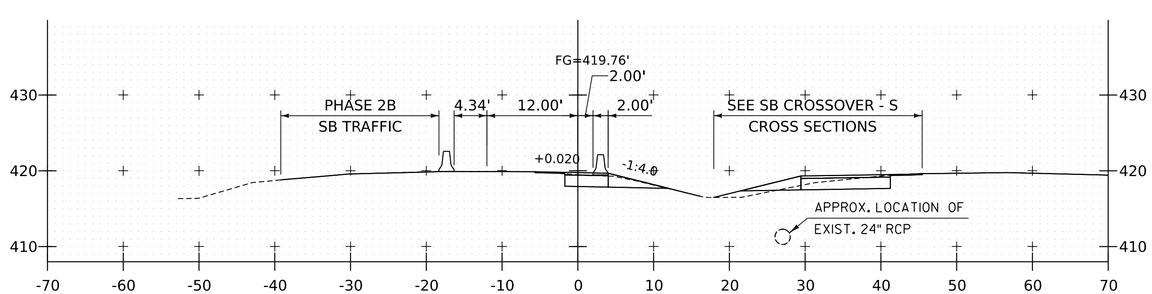

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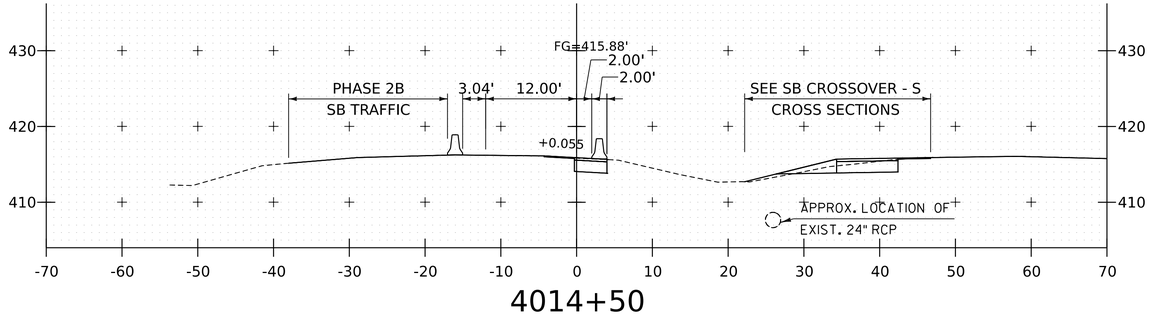
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_NB_Xover_S.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 9	SHEET 183 OF 922

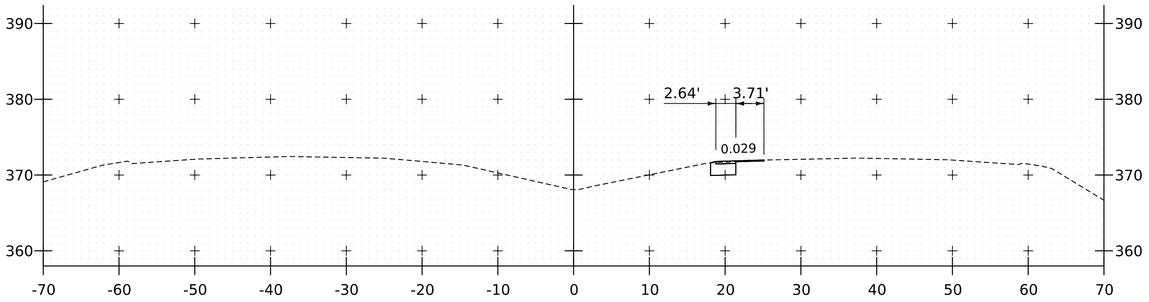
HNTB



4014+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_NB_Xover_S.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1A CROSSOVER-S CROSS SECTION 10	SHEET 184 OF 922

HNTB



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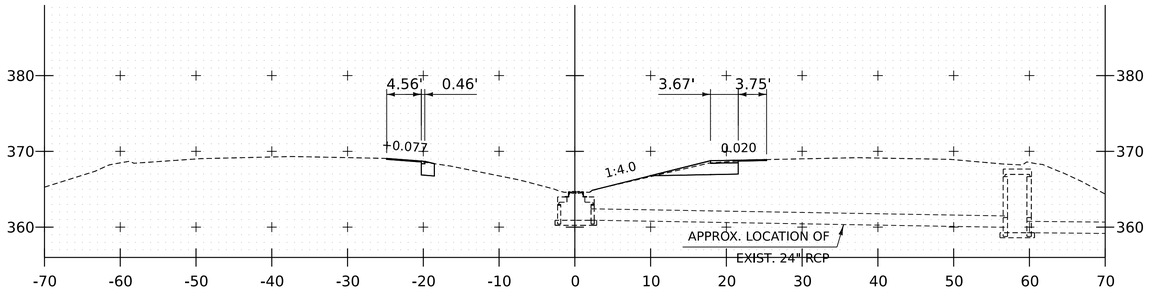

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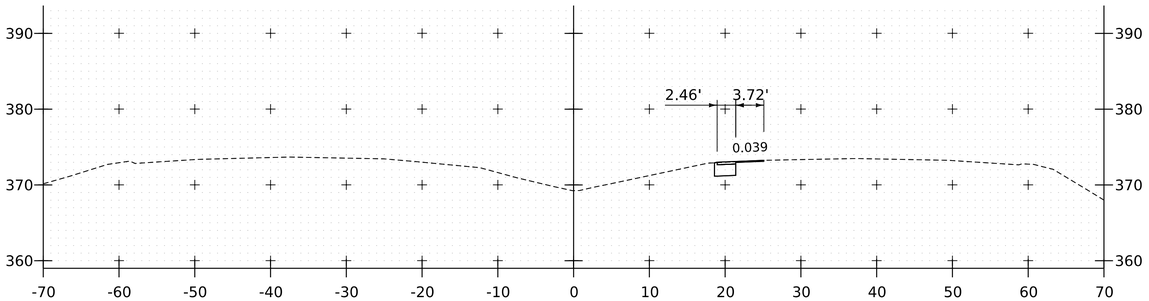

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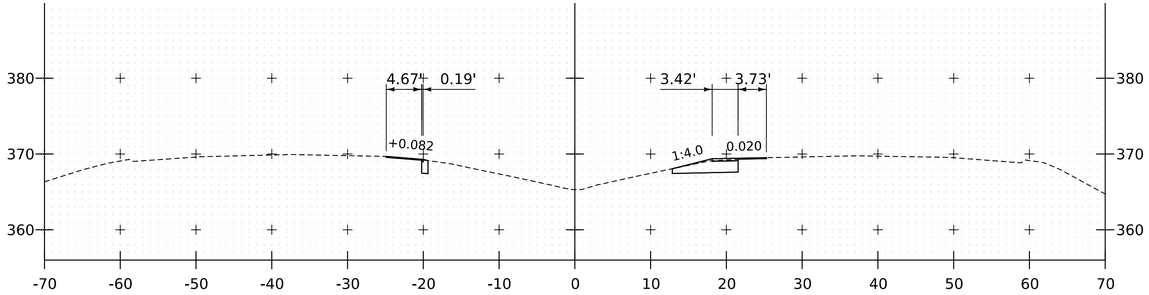

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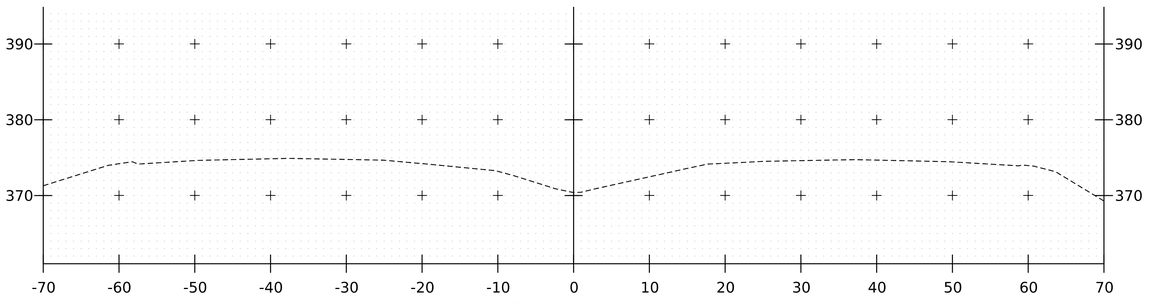

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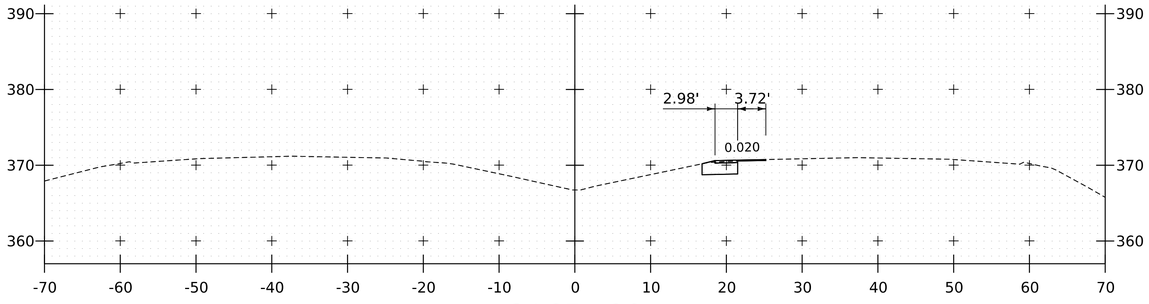
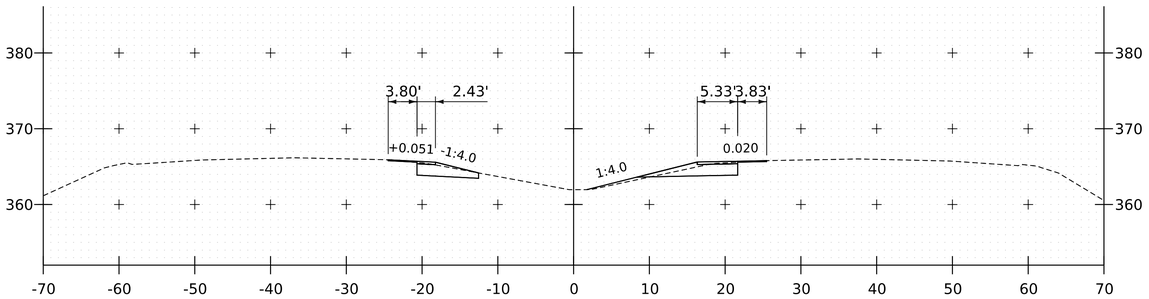


2165+00

NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Xover_Ph1.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 1	SHEET 185 OF 922



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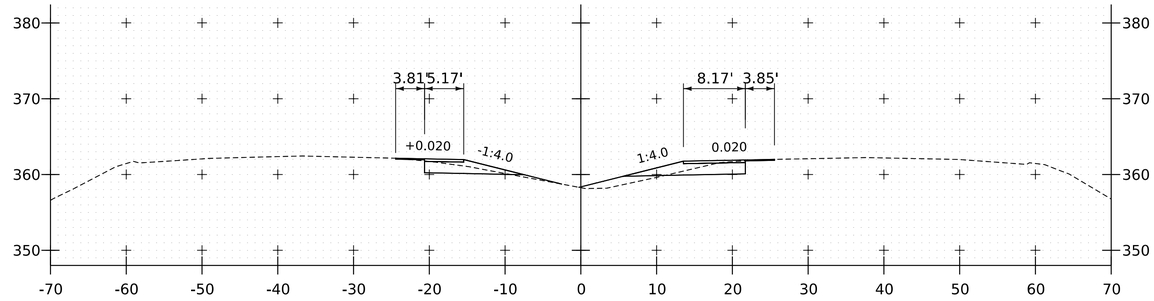

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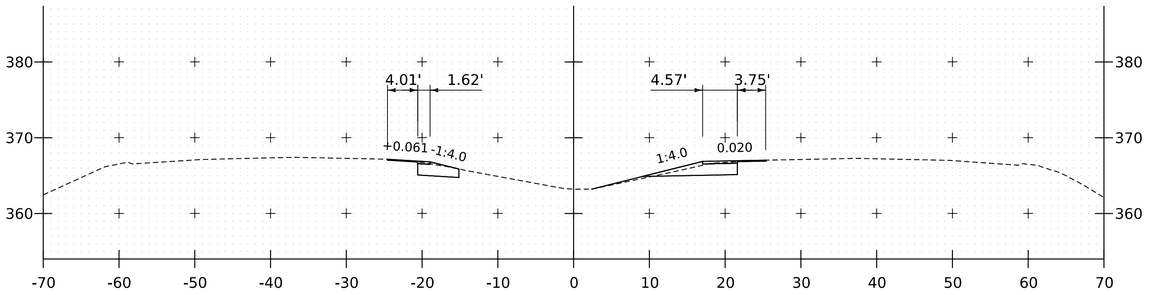

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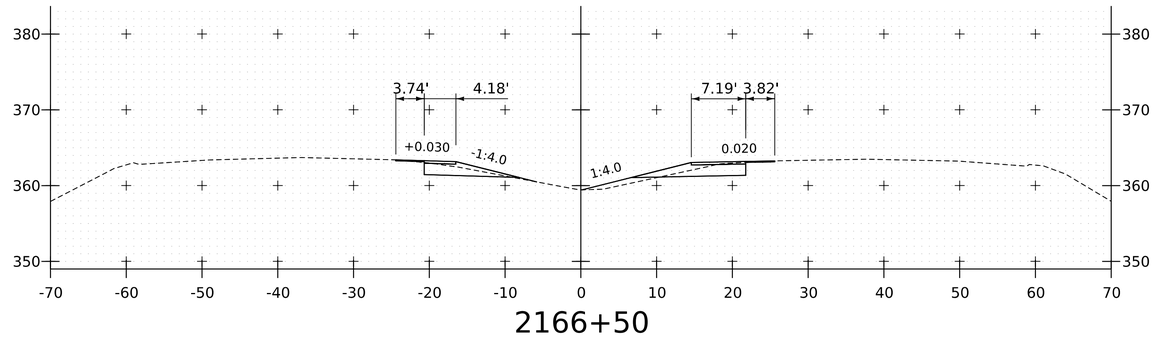

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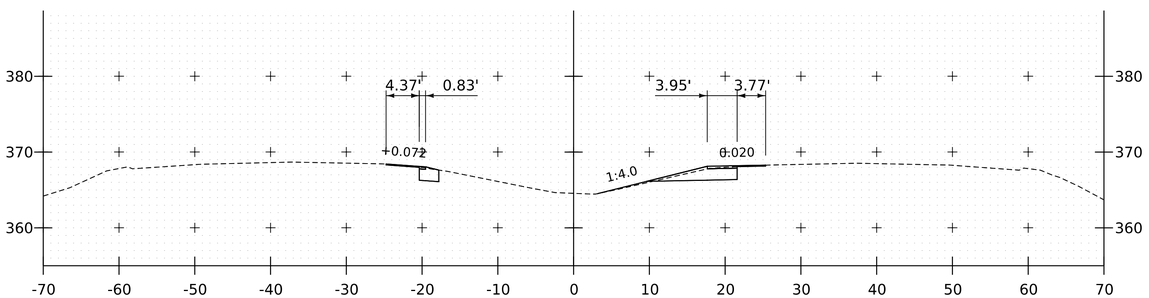

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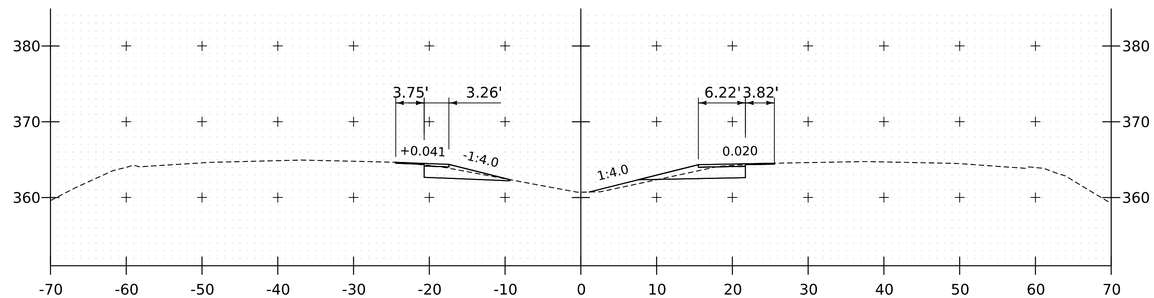
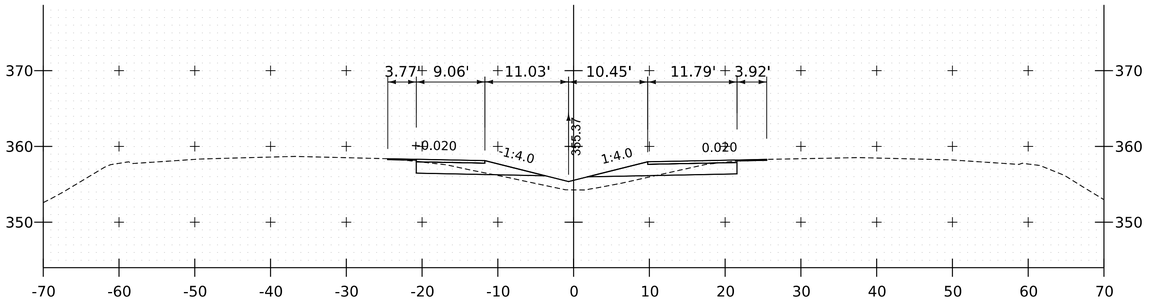


2166+25

NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_Xover_Ph1.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 2		SHEET	186 OF 922



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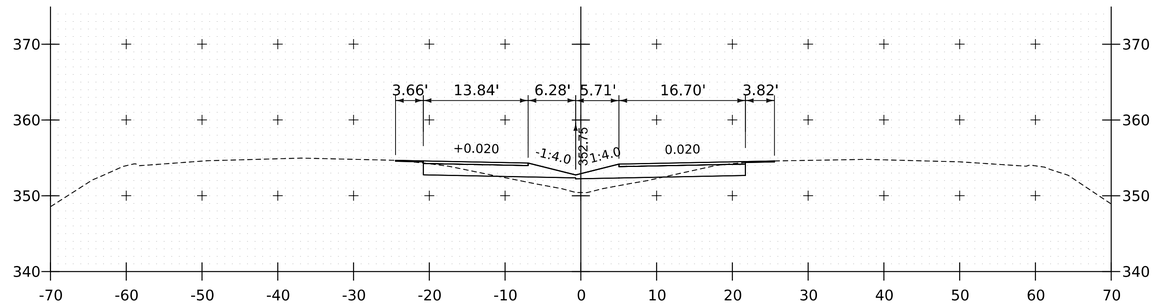

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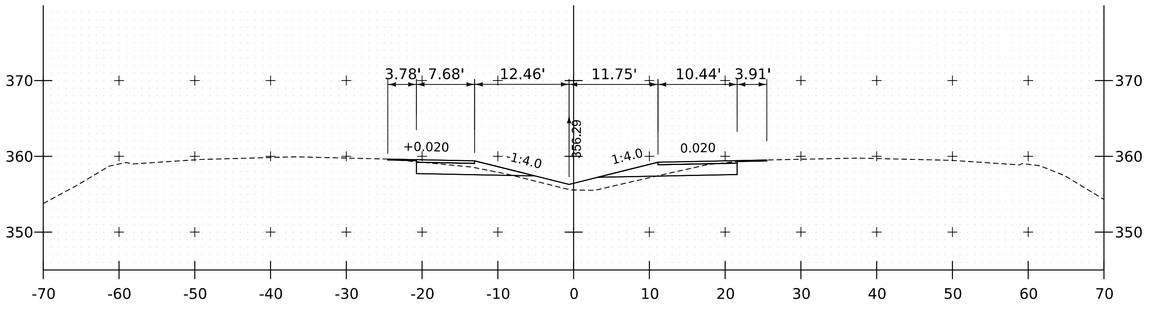

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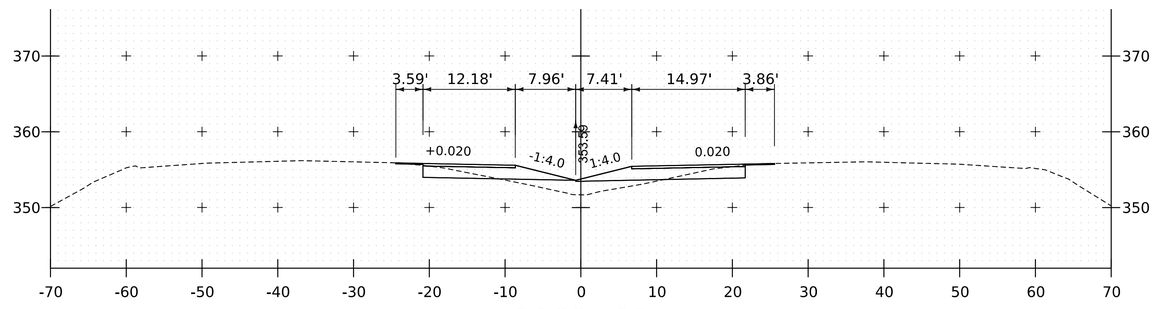

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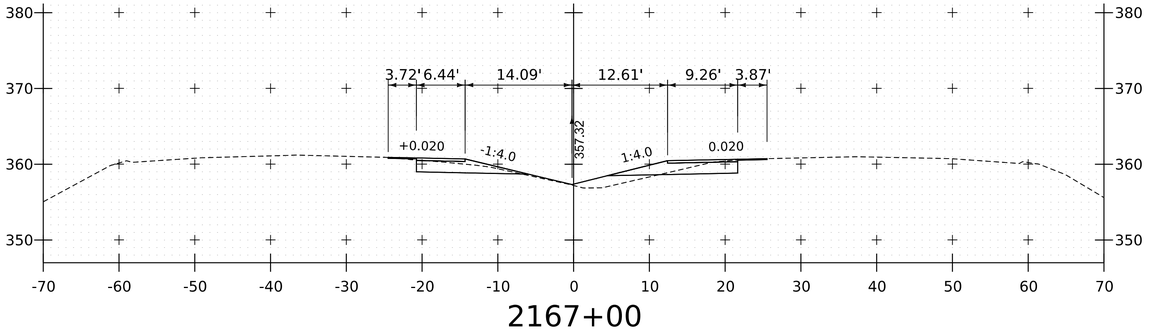

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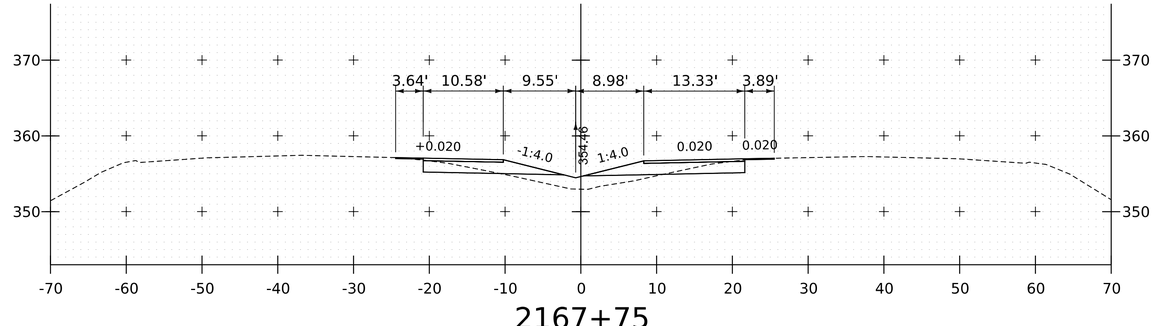


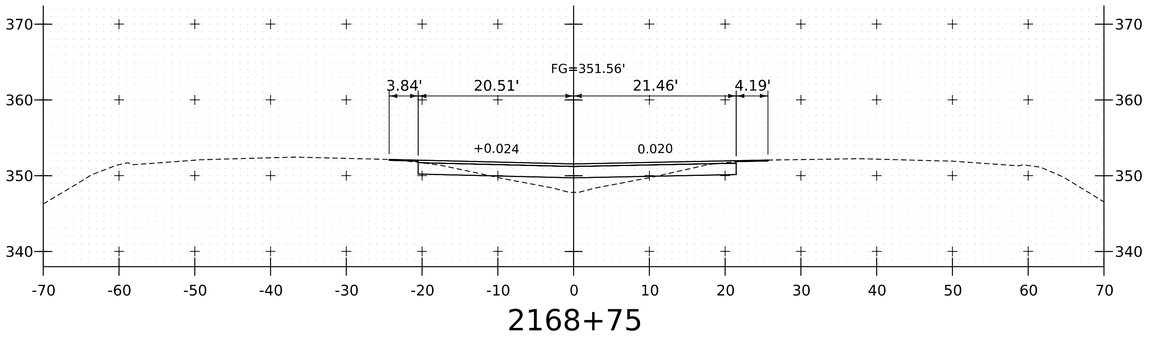
2167+75

NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

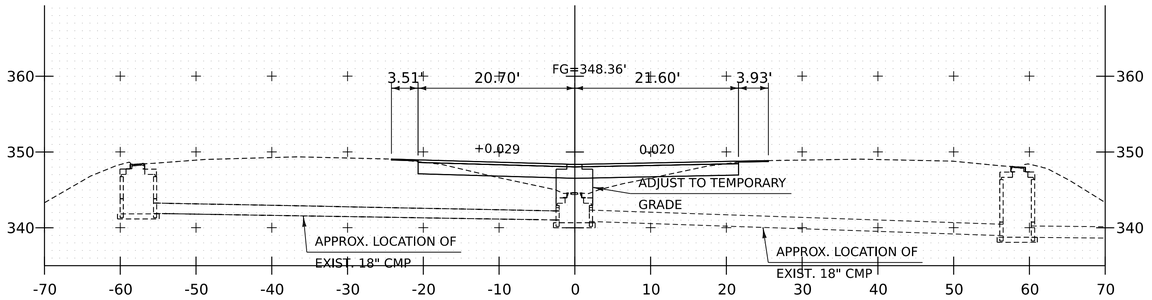
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Xover_Ph1.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 3		SHEET	187 OF 922



2168+75



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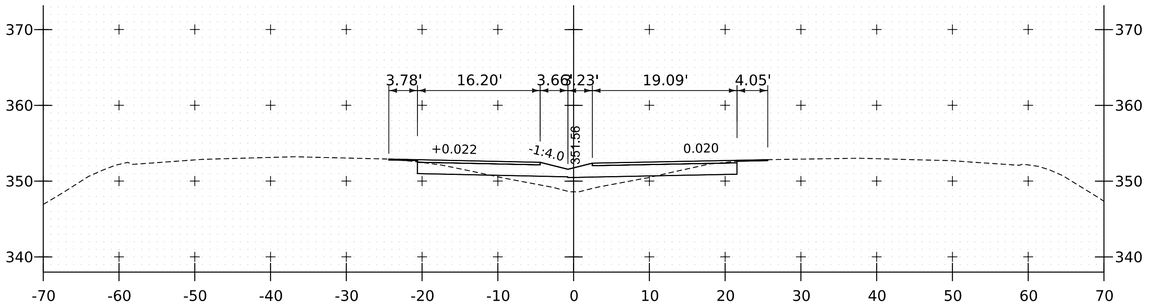

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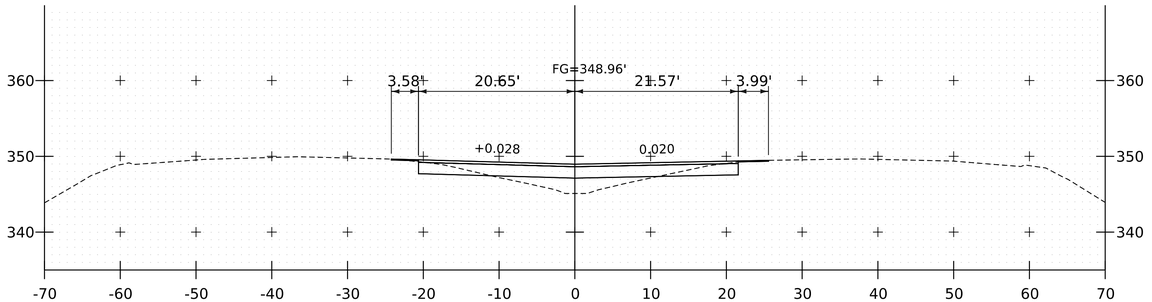
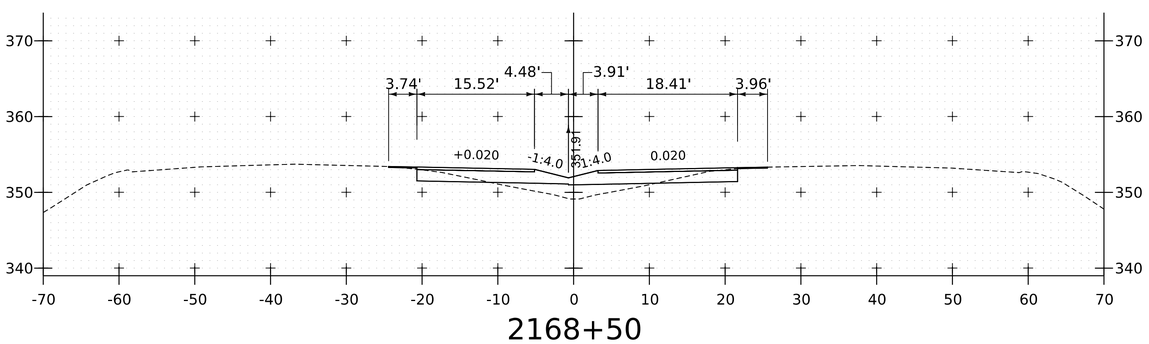


2169+25



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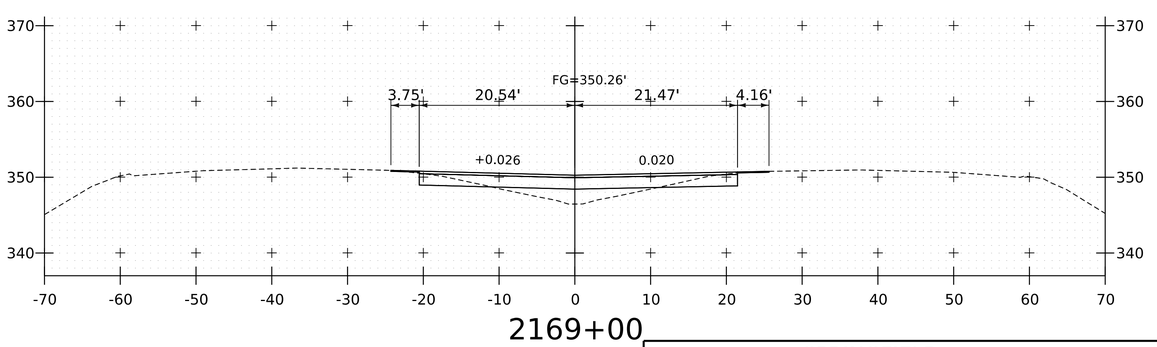


2169+00

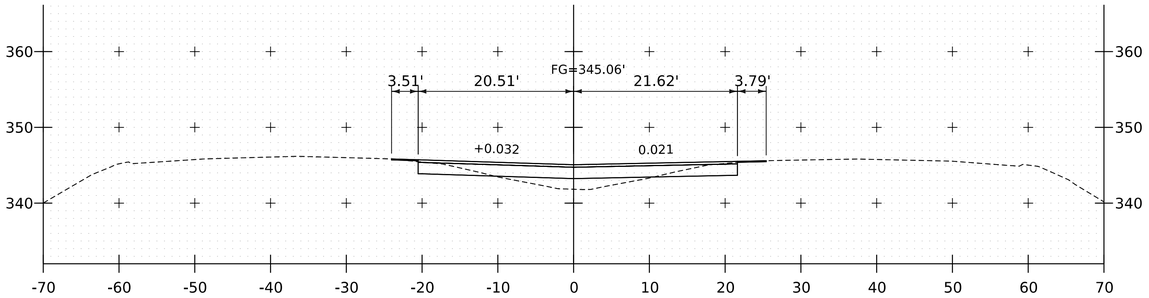
NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

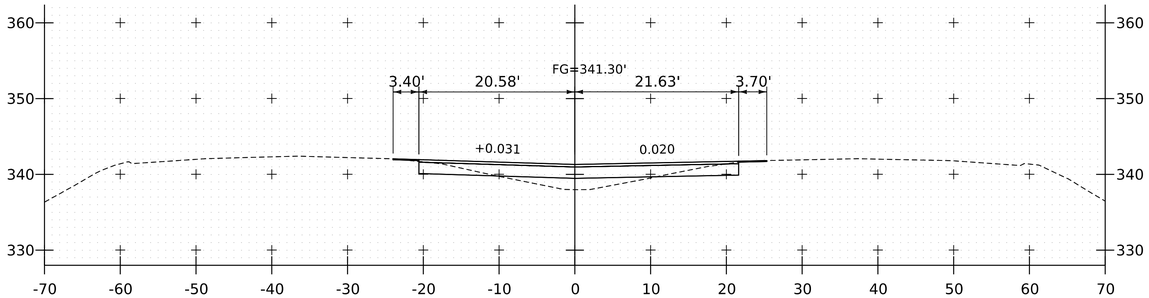
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_Xover_Ph1.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 4

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 188 OF 922



2170+00



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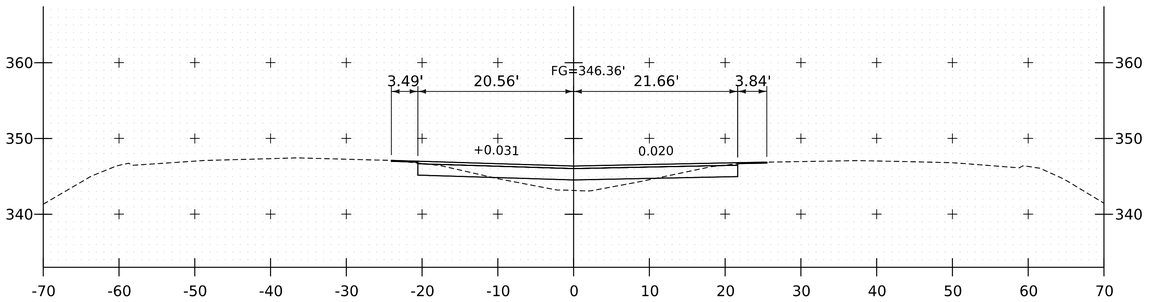
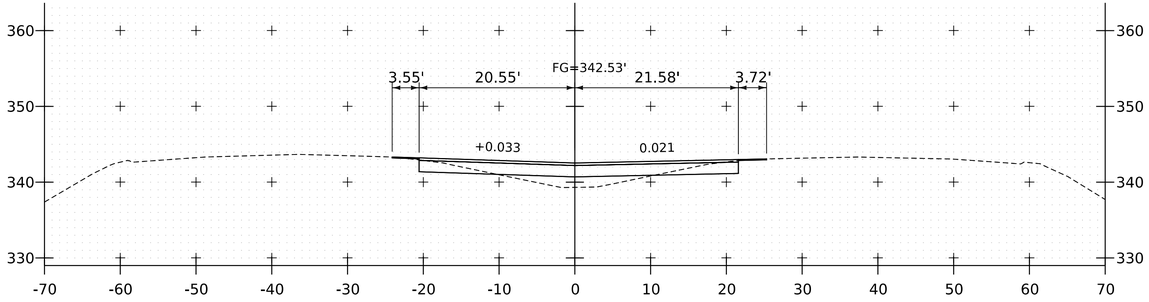
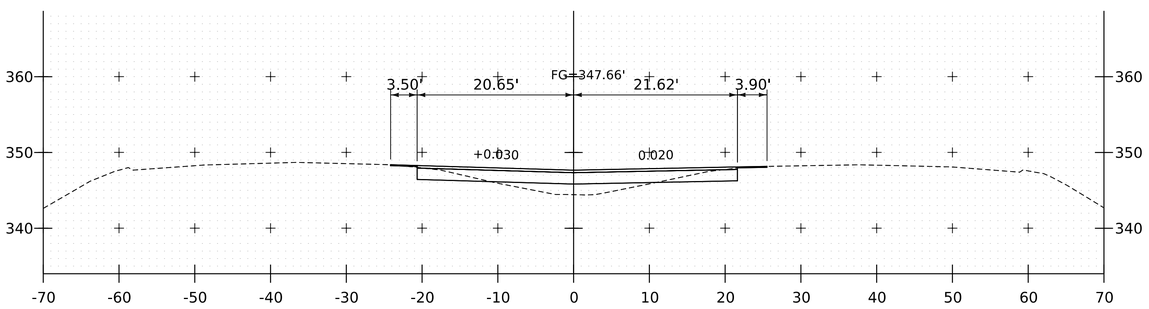


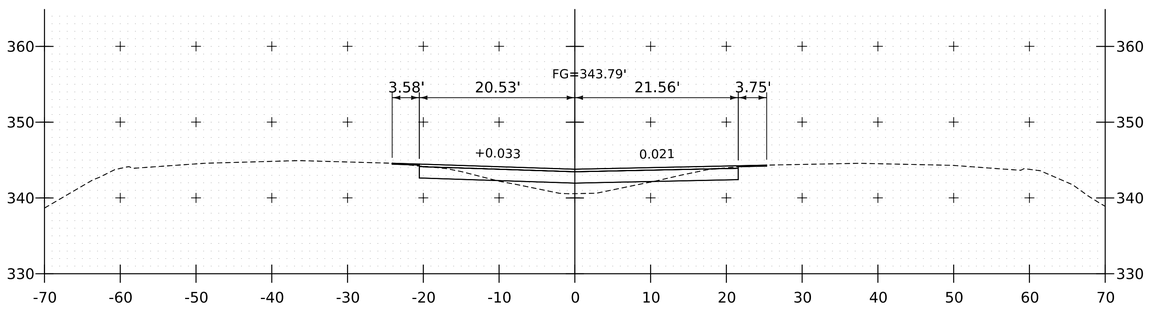
2169+75



2170+50



2169+50

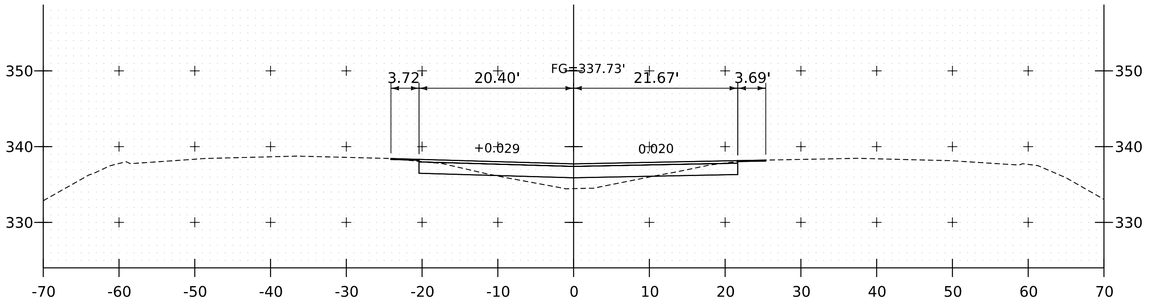


2170+25

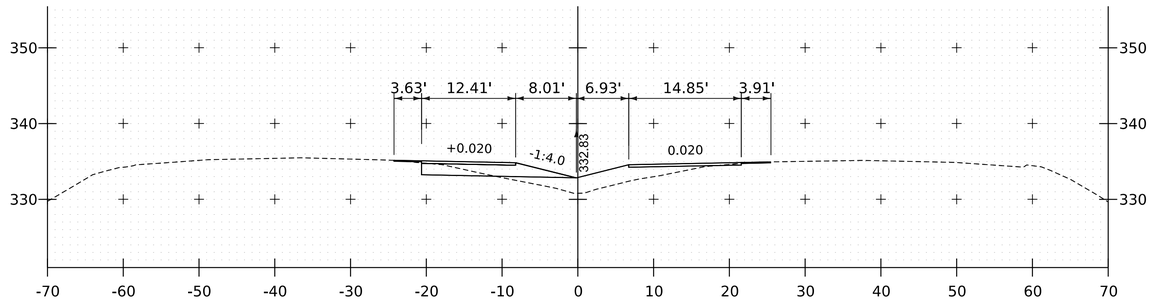
NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

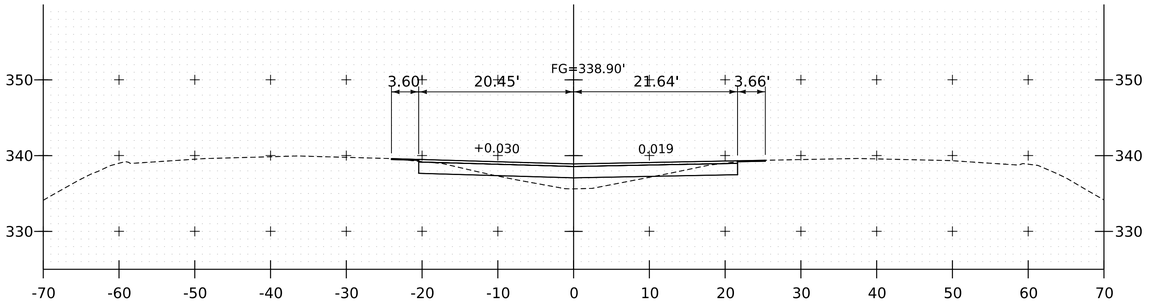
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_Xover_Ph1.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 5		SHEET	189 OF 922



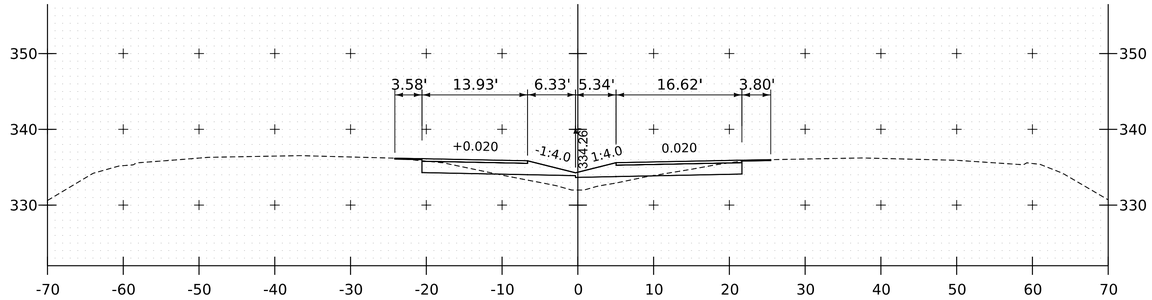
2171+50



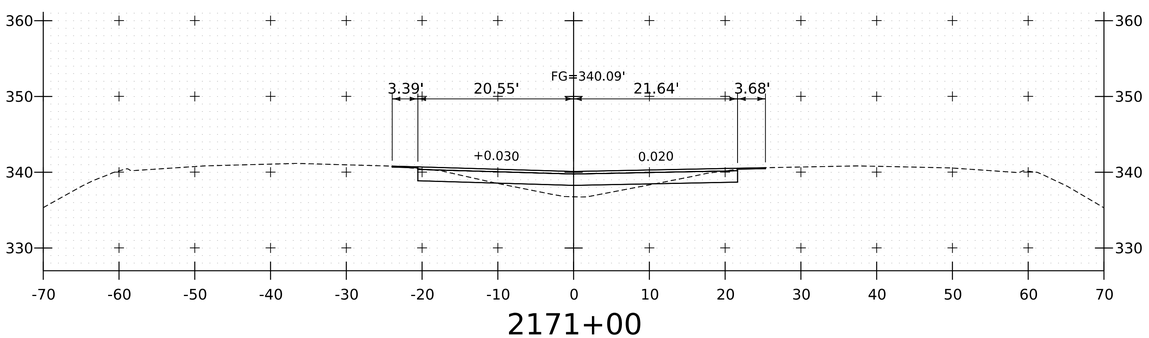
2172+25



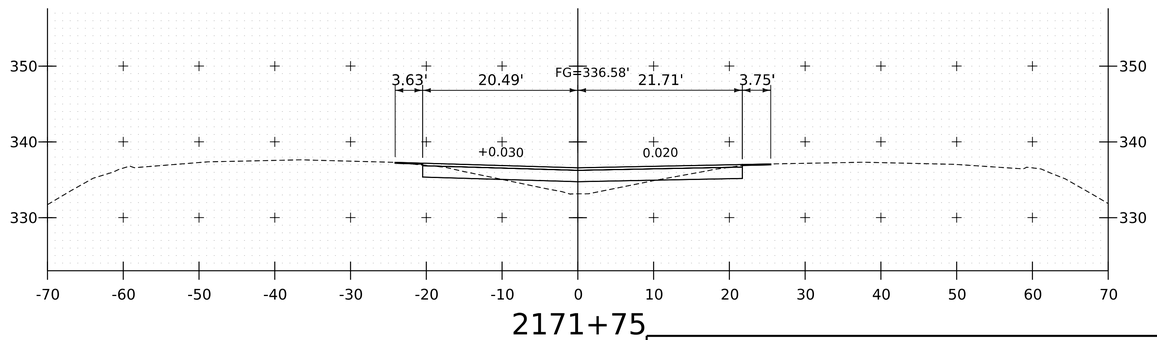
2171+25



2172+00



2171+00

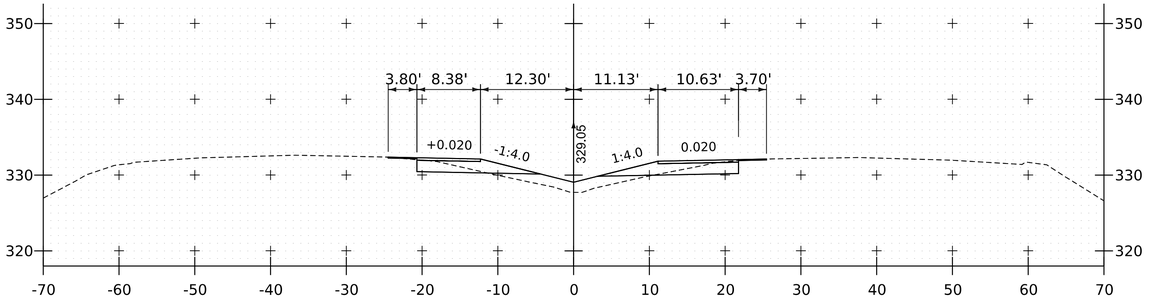


2171+75

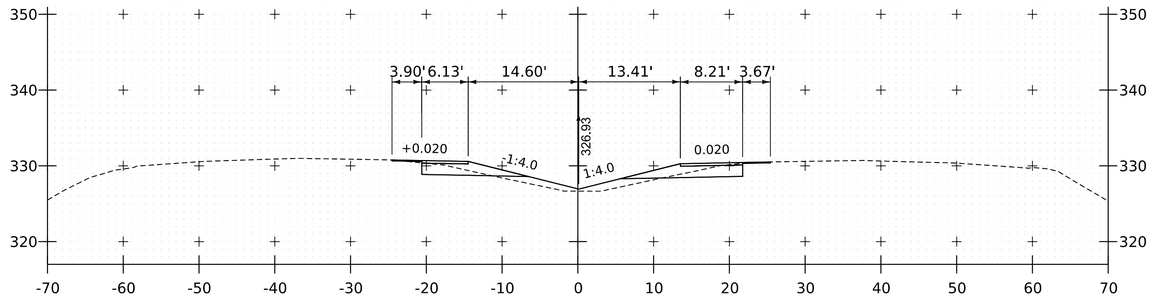
NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_Xover_Ph1.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 6		SHEET	190 OF 922



2173+00



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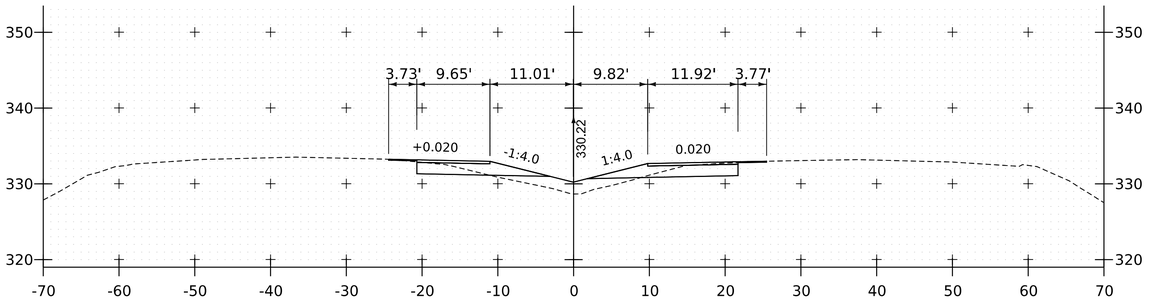
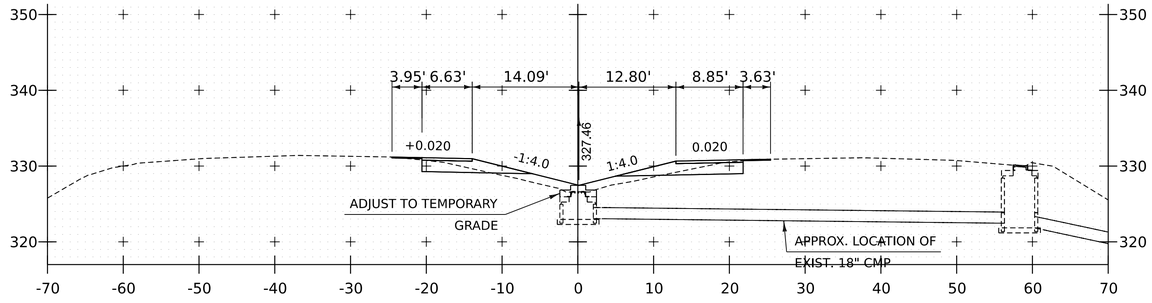
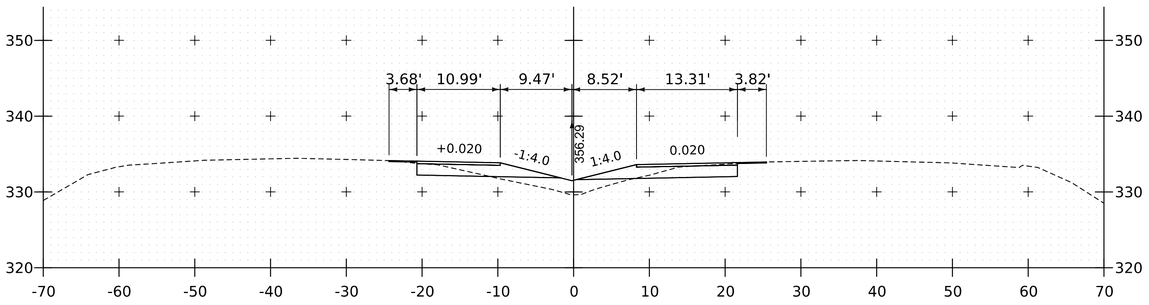


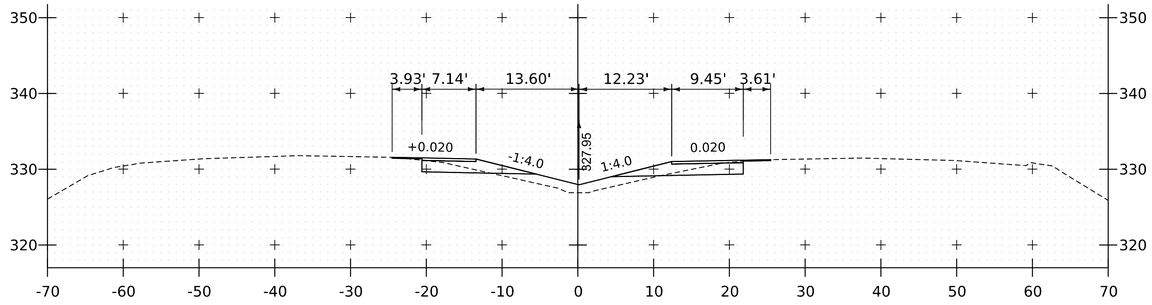
2172+75



2173+37



2172+50



2173+25

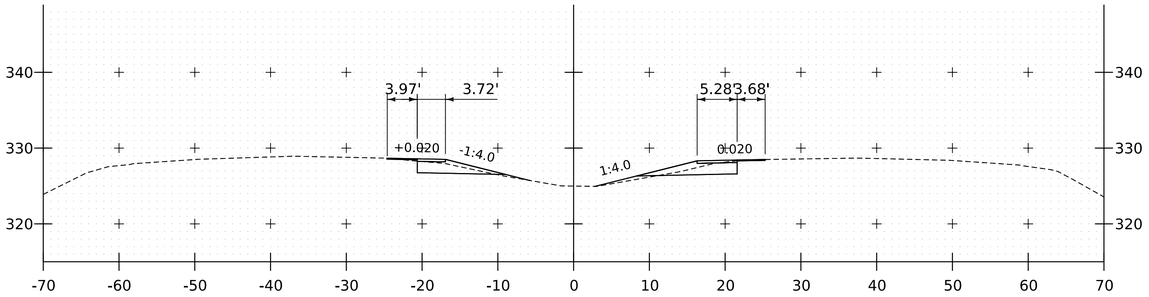
NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

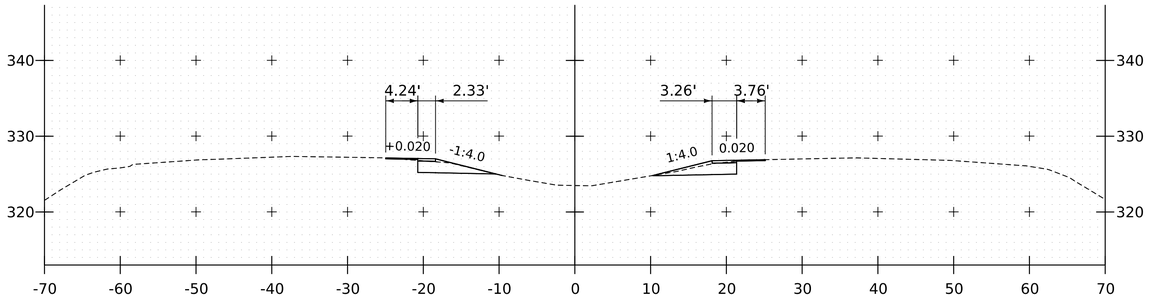
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_Xover_Ph1.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 7

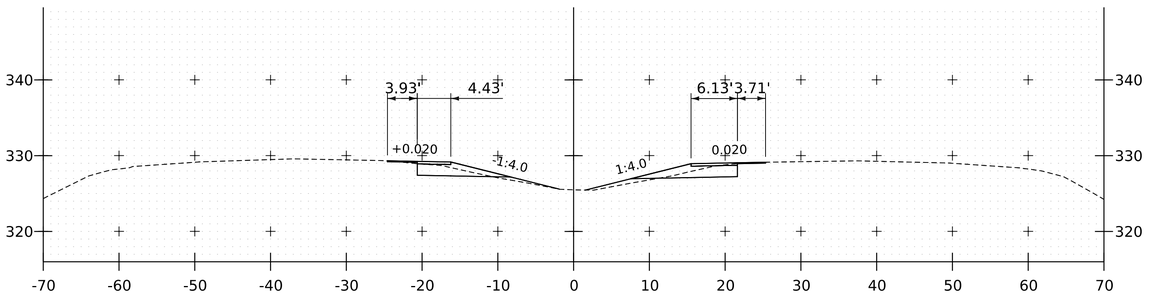
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 191 OF 922



2174+25



2175+00



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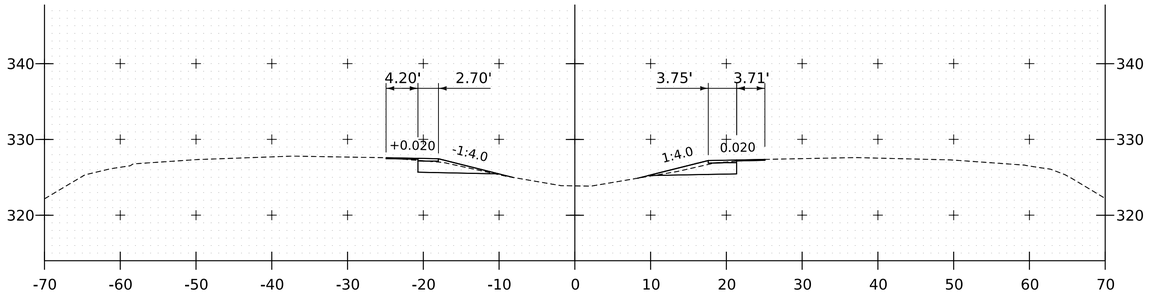
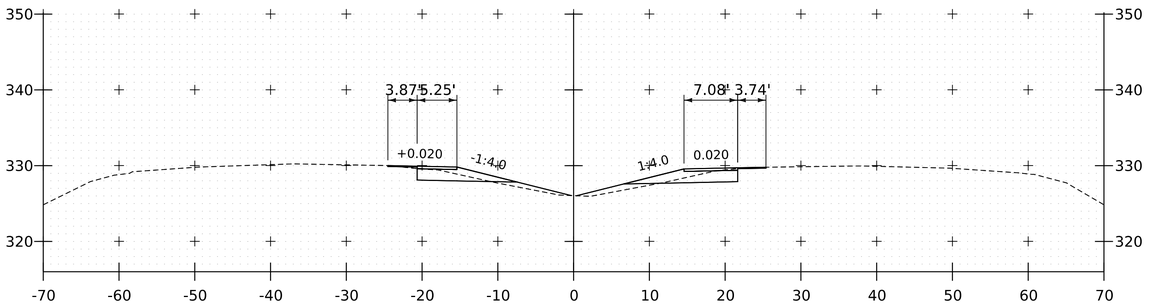
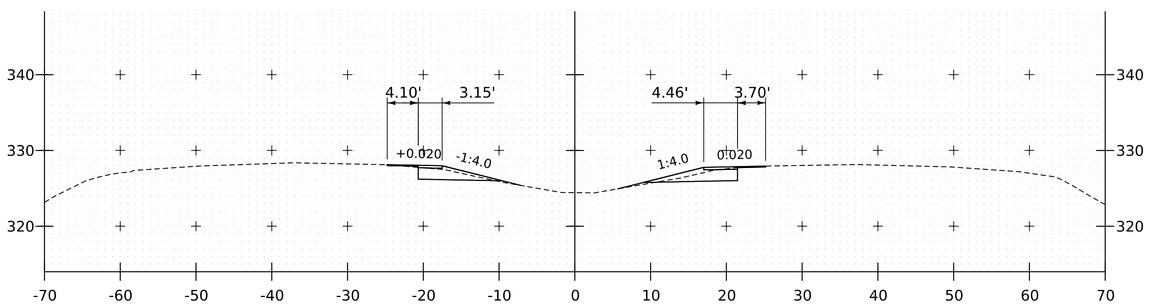


2174+75



2173+75



2174+50

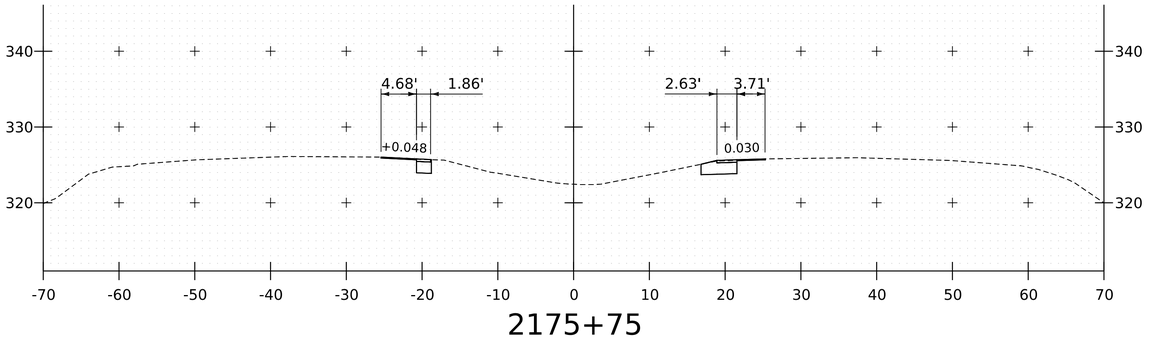
NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

HNTB

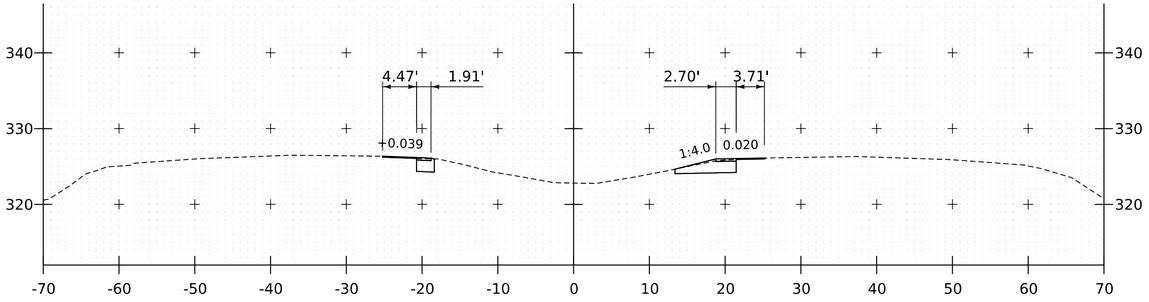
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_Xover_Ph1.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1A CROSSOVER-N CROSS SECTION 8

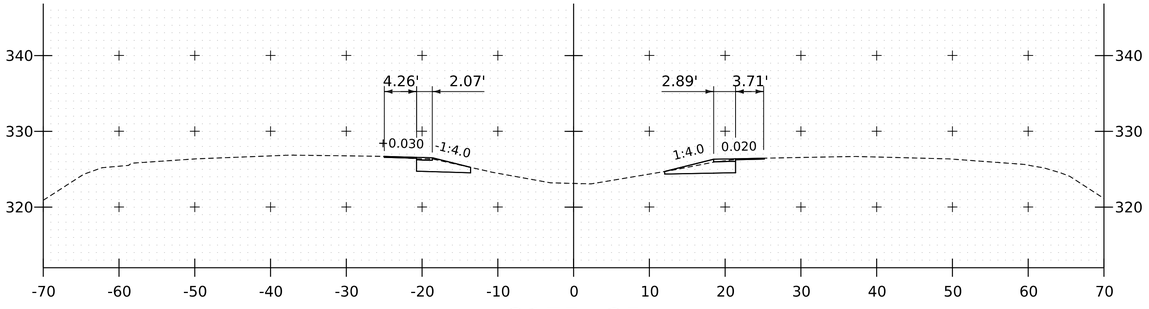
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 192 OF 922



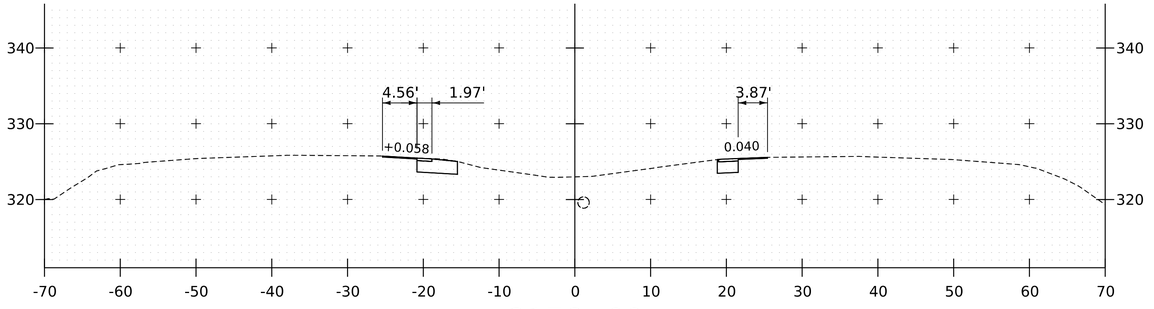
2175+75



2175+50



2175+25



2176+00

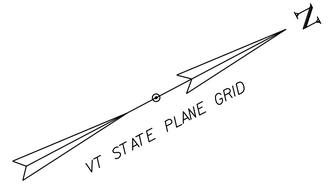
NOTE: THE I-91 PHASE 1A CROSSOVER-N IS ALSO USED IN SUBSEQUENT PHASES AS THE I-91 PHASE 1B CROSSOVER-N, I-91 PHASE 2B CROSSOVER-S, AND I-91 PHASE 3B CROSSOVER-S. REFER TO EACH RESPECTIVE TRAFFIC CONTROL PLAN SHEET FOR STRIPING LAYOUT AND LANE ARRANGEMENT.

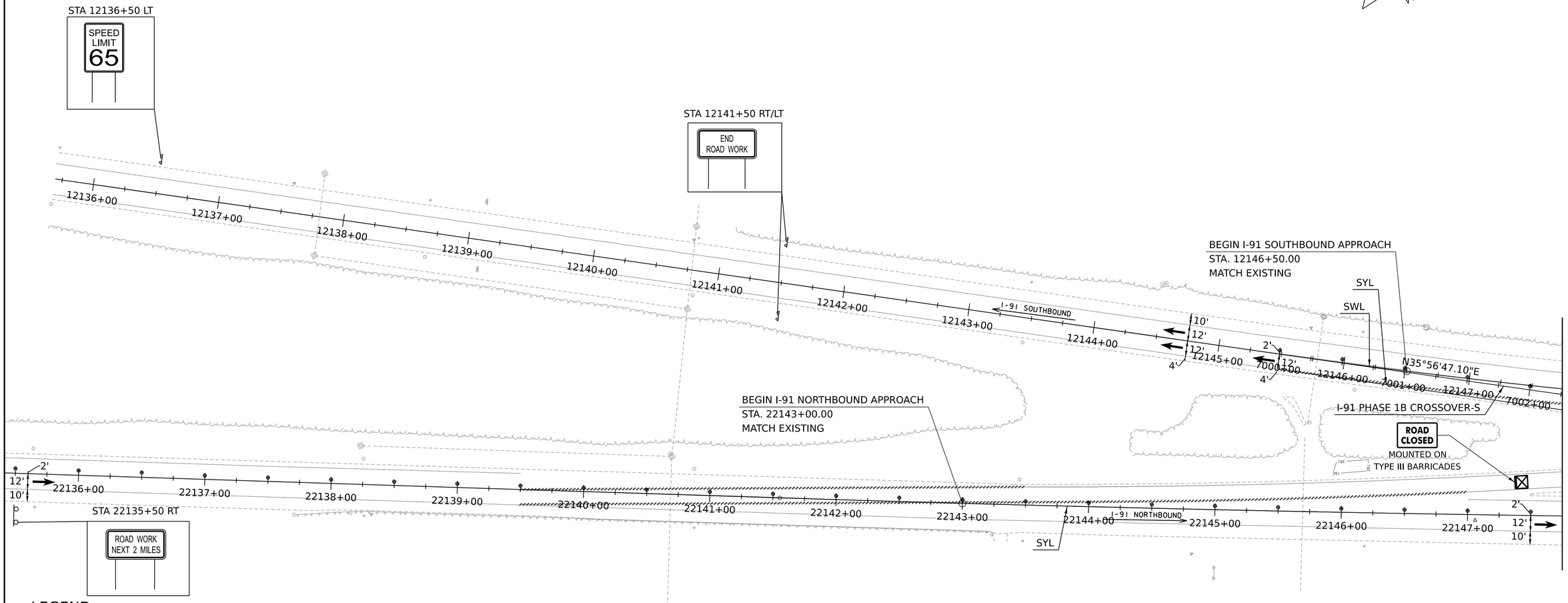
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Xover_Ph1.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1A CROSSOVER-N CROSS SECTIONS 9	SHEET 193 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22139+50 TO 22146+00 CL (SOLID)
STA 7000+00 TO 7002+25 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 7000+00 TO 7002+25 CL (SOLID)

PAVEMENT MARKING MASK
STA 22139+50 CL TO 22143+50 LT
STA 22139+50 RT TO 22147+00 LT
STA 12145+49 TO 12147+75 RT

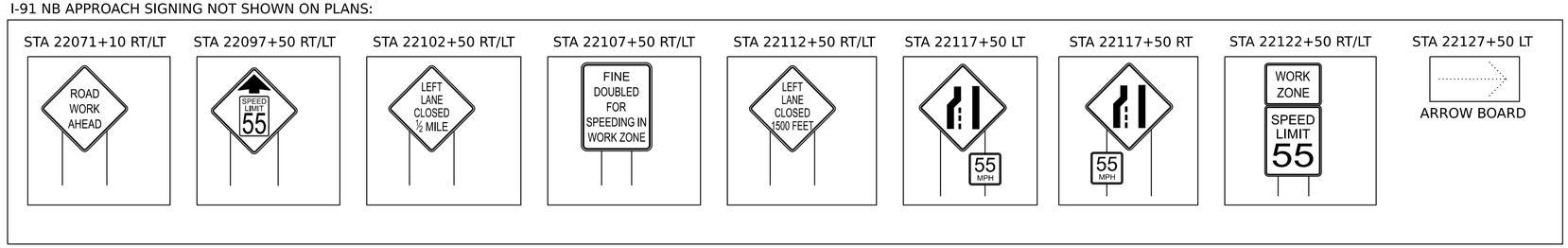




LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL — SOLID WHITE LINE
- SYL — SOLID YELLOW LINE
- DWL — DOTTED WHITE LINE
- BWL — BROKEN WHITE LINE
- TRAFFIC FLOW ARROW
- FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:



SCALE 1" = 40'-0"
40 0 40

HNTB

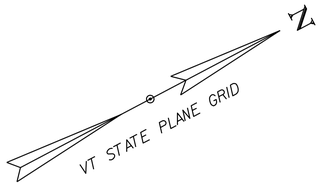
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 1		SHEET	194 OF 922

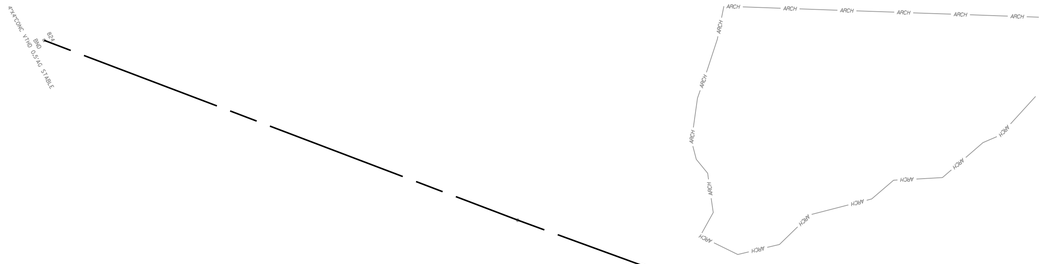
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 7004+00 RT TO 22159+50 CL
STA 7013+39 LT TO 22159+54 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 7002+25 RT TO 22159+50 LT (SOLID)
STA 22153+50 CL TO 22159+50 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 7002+25 CL TO 22159+50 LT (SOLID)
STA 22153+50 TO 22159+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 12147+75 RT TO 12151+00 RT
STA 22153+50 TO 22158+50 CL
STA 22153+50 TO 22158+50 RT
STA 22153+94 TO 22158+50 LT
STA 7004+50 RT TO 7006+75 LT
STA 7005+00 RT TO 7007+25 LT



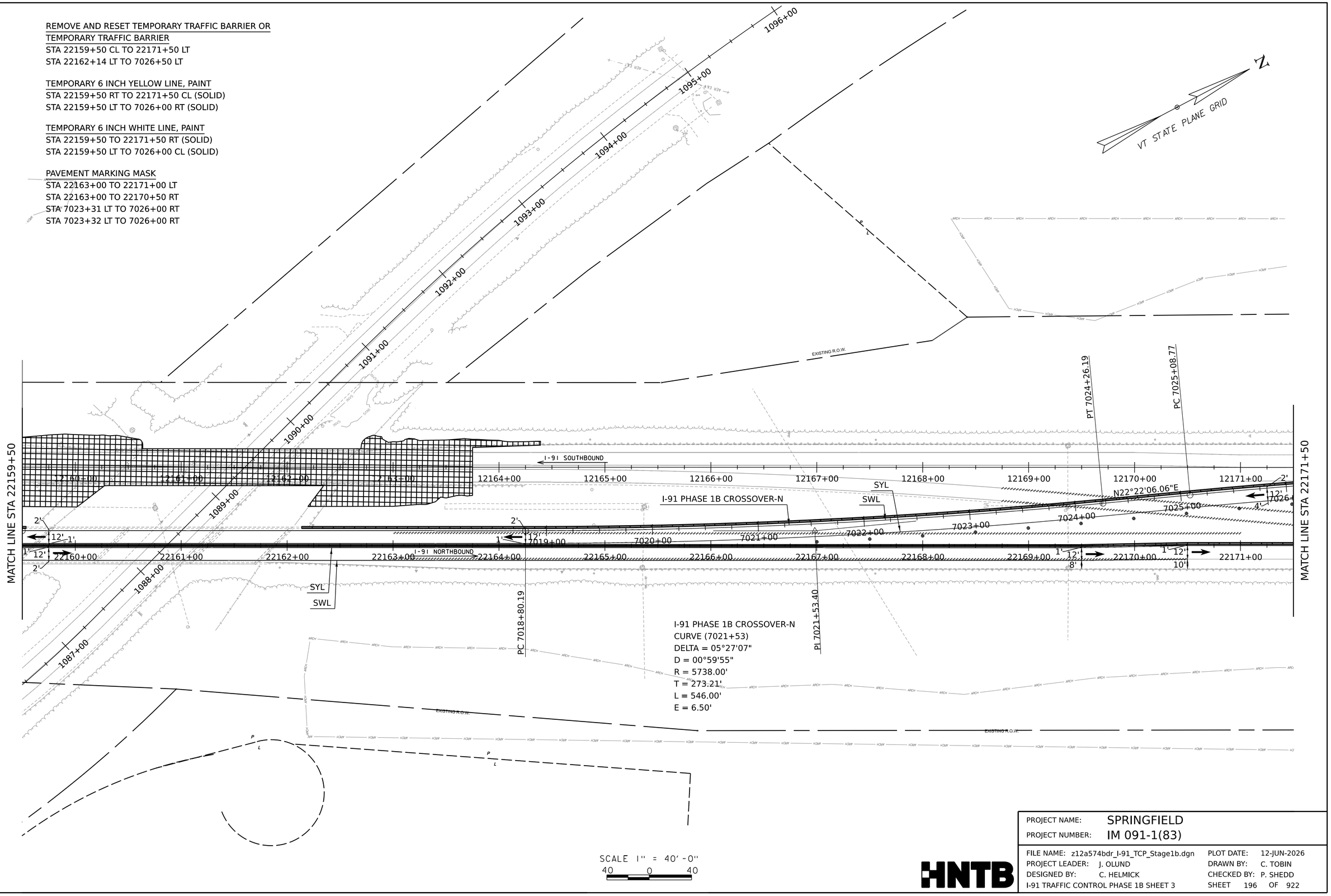

ARCH
ARCH
ARCH

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 22159+50 CL TO 22171+50 LT
STA 22162+14 LT TO 7026+50 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22159+50 RT TO 22171+50 CL (SOLID)
STA 22159+50 LT TO 7026+00 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22159+50 TO 22171+50 RT (SOLID)
STA 22159+50 LT TO 7026+00 CL (SOLID)

PAVEMENT MARKING MASK
STA 22163+00 TO 22171+00 LT
STA 22163+00 TO 22170+50 RT
STA 7023+31 LT TO 7026+00 RT
STA 7023+32 LT TO 7026+00 RT



I-91 PHASE 1B CROSSOVER-N
CURVE (7021+53)
DELTA = 05°27'07"
D = 00°59'55"
R = 5738.00'
T = 273.21'
L = 546.00'
E = 6.50'

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 3		SHEET	196 OF 922

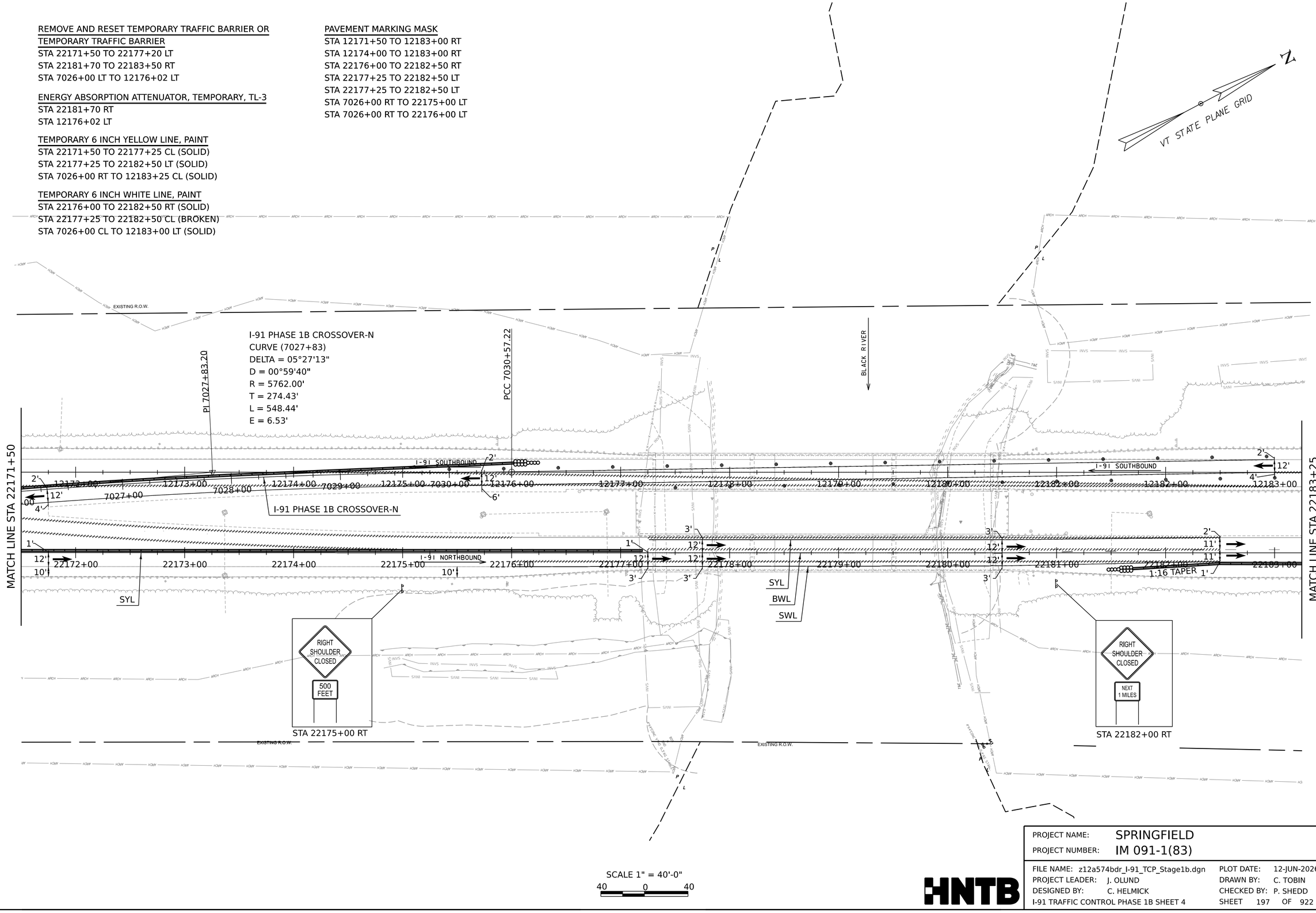
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22171+50 TO 22177+20 LT
STA 22181+70 TO 22183+50 RT
STA 7026+00 LT TO 12176+02 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22181+70 RT
STA 12176+02 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22171+50 TO 22177+25 CL (SOLID)
STA 22177+25 TO 22182+50 LT (SOLID)
STA 7026+00 RT TO 12183+25 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22176+00 TO 22182+50 RT (SOLID)
STA 22177+25 TO 22182+50 CL (BROKEN)
STA 7026+00 CL TO 12183+00 LT (SOLID)

PAVEMENT MARKING MASK
STA 12171+50 TO 12183+00 RT
STA 12174+00 TO 12183+00 RT
STA 22176+00 TO 22182+50 RT
STA 22177+25 TO 22182+50 LT
STA 22177+25 TO 22182+50 LT
STA 7026+00 RT TO 22175+00 LT
STA 7026+00 RT TO 22176+00 LT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 4	SHEET 197 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 22183+25 TO 22194+75 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12183+25 TO 12194+75 CL (SOLID)

PAVEMENT MARKING MASK
STA 12183+25 TO 12194+75 CL

N

VT STATE PLANE GRID

STA 12185+00 LT

STA 22187+00 LT

STA 22187+00 RT

STA 22192+70 RT

WORK ZONE
SPEED LIMIT 55

I-91 SOUTHBOUND

I-91 NORTHBOUND

EXISTING R.O.W.

MATCH LINE STA 22183+25

MATCH LINE STA 22194+75

12184+00 12185+00 12186+00 12187+00 12188+00 12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

22184+00 22185+00 22186+00 22187+00 22188+00 22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 5		SHEET	198 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22194+75 TO 22196+87 RT
STA 22205+75 TO 22206+50 RT
EXIST NB ON RAMP = 280'
EXIST NB OFF RAMP = 320'

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22205+14 RT
STA 22205+75 RT
EXIST NB ON RAMP

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12194+75 TO 12206+50 CL (SOLID)
EXIST SB ON RAMP = 215' (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
EXIST SB ON RAMP = 94' (SOLID)

PAVEMENT MARKING MASK
STA 12194+75 TO 12206+50 CL
EXIST SB ON RAMP = 276'

VT STATE PLANE GRID

MATCH LINE STA 12206+50

MATCH LINE STA 22194+75

MATCH LINE STA 22206+50

I-91 SOUTHBOUND

I-91 NORTHBOUND

SYL

SWL

STA 22206+25 RT

EXIT 7

STA 22196+00 RT

EXIT OPEN

STA 22202+75 RT

ROAD NARROWS 25 MPH

TEMPORARY RAMP CLOSURE TO COMPLETE CONSTRUCTION OF PROPOSED OFF RAMP

TEMPORARY RAMP CLOSURE TO COMPLETE CONSTRUCTION OF PROPOSED ON RAMP

TEMPORARY EARTH SUPPORT

1:16 TAPER

1:14 TAPER

NOTE: TRAFFIC CONTROL ON CHARLESTOWN RD NOT SHOWN, SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 6	SHEET 199 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 22206+50 TO 22217+25 LT, CL & RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12206+50 TO 12216+25 CL (SOLID)

PAVEMENT MARKING MASK
STA 12206+50 TO 12216+25 CL

VT STATE PLANE GRID

N

MATCH LINE STA 12206+50

MATCH LINE STA 12216+25

MATCH LINE STA 22206+50

MATCH LINE STA 22217+25

I-91 SOUTHBOUND

I-91 NORTHBOUND

SPENCER BROOK

12207+00 12208+00 12209+00 12210+00 12211+00 12212+00 12213+00 12214+00 12215+00 12216+00

22207+00 22208+00 22209+00 22210+00 22211+00 22212+00 22213+00 22214+00 22215+00 22216+00 22217+00

TEMPORARY
EARTH SUPPORT

TEMPORARY
EARTH SUPPORT

TEMPORARY RAMP CLOSURE TO
COMPLETE CONSTRUCTION
OF PROPOSED ON RAMP

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 7		SHEET	200 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22217+25 TO 22222+02 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12216+25 CL TO 12229+00 RT (SOLID)

PAVEMENT MARKING MASK
STA 12216+25 TO 12229+00 CL

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

STA 12229+00 RT
ARROW BOARD

STA 12227+00 RT/LT
WORK ZONE
SPEED LIMIT 55

STA 12232+00 RT
55 MPH

STA 12232+00 LT
55 MPH

STA 12237+00 RT/LT
LEFT LANE CLOSED 1500 FEET

STA 12242+00 RT/LT
FINE DOUBLED FOR SPEEDING IN WORK ZONE

STA 12247+00 RT/LT
LEFT LANE CLOSED ½ MILE

STA 12252+00 RT/LT
SPEED LIMIT 55

STA 12278+40 RT/LT
ROAD WORK AHEAD

STA 12222+00 LT
ROAD WORK NEXT 2 MILES

VT STATE PLANE GRID
N

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12216+25

10'
12'
4'
I-91 SOUTHBOUND
10'
12'
4'

12217+00 12218+00 12219+00 12220+00 12221+00 12222+00 12223+00 12224+00 12225+00 12226+00 12227+00 12228+00

SPENCER BROOK

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

MATCH LINE STA 22217+25

2'
11'
11'
1'
2'
11'
11'
I-91 NORTHBOUND

22218+00 22219+00 22220+00 22221+00 22222+00 22223+00 22224+00 22225+00 22226+00 22227+00 22228+00

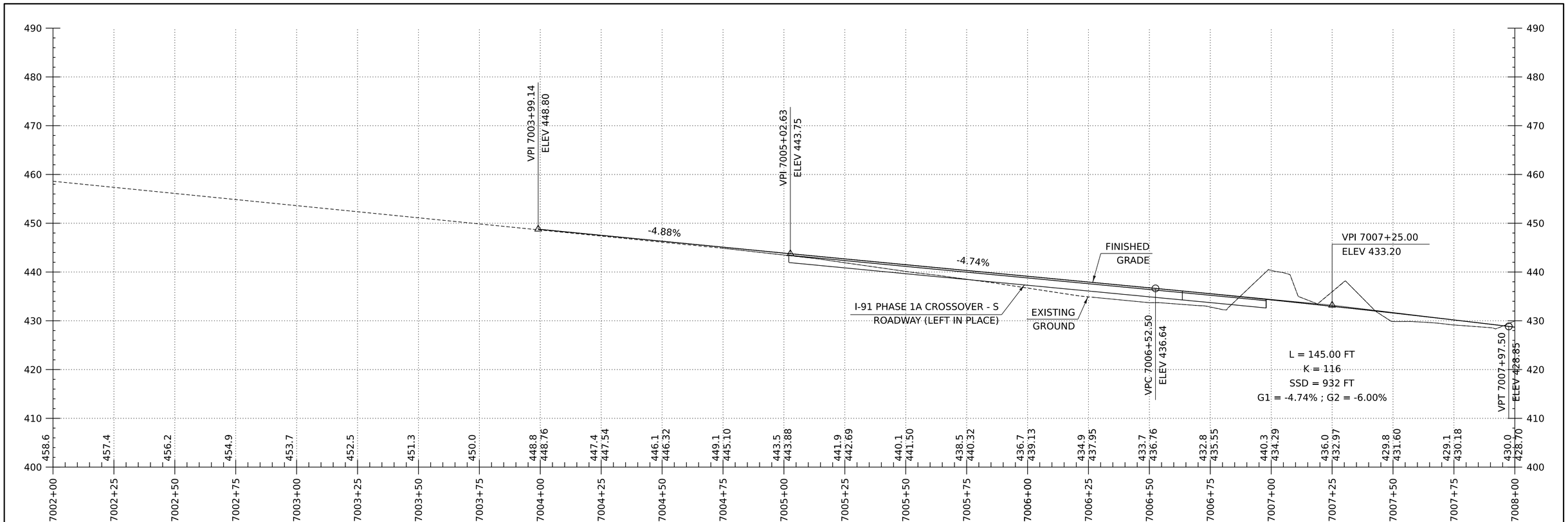
STA 22229+00 RT/LT
END ROAD WORK

STA 22234+00 RT
SPEED LIMIT 65

SCALE 1" = 40'-0"
40 0 40

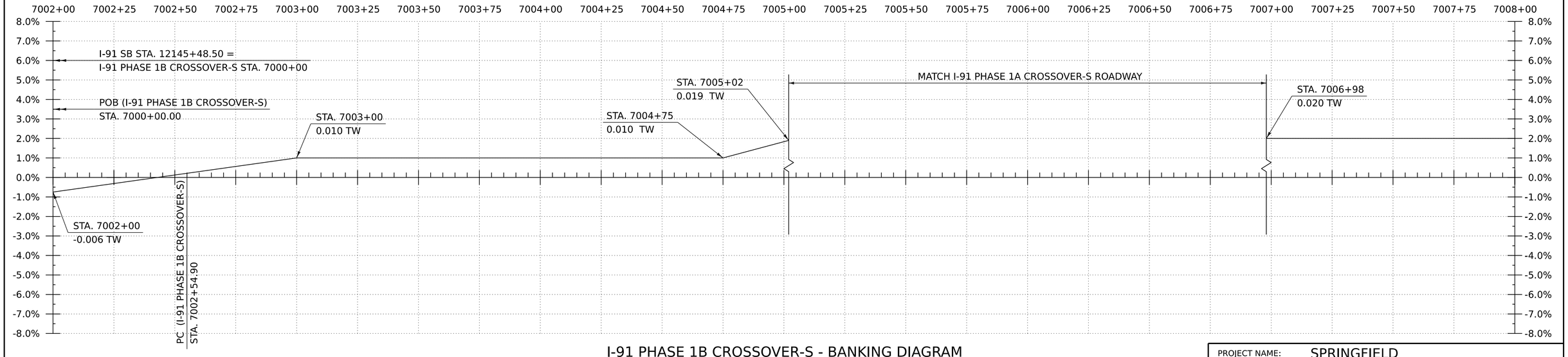
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 1B SHEET 8		SHEET	201 OF 922



I-91 PHASE 1B CROSSOVER-S PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



I-91 PHASE 1B CROSSOVER-S - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_SB_Xover_S.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1B CROSSOVER-S PROFILE 1	SHEET 202 OF 922

L = 155.00 FT
K = 113
HSD = INF FT
G1 = -6.00% ; G2 = -4.63%

VPT 7009+52.50
ELEV 420.61

VPI 7010+00.00
ELEV 418.41

VPI 7010+50.00
ELEV 415.97

VPI 7011+25.00
ELEV 412.25

VPI 7011+50.00
ELEV 411.10

VPI 7010+75.00
ELEV 409.78

VPI 7012+00.00
ELEV 408.54

VPI 7013+00.00
ELEV 403.55

VPI 7008+75.00
ELEV 424.20

-4.63%
-4.88%
-4.96%
-4.92%
-4.96%
-4.99%

FINISHED GRADE

EXISTING GROUND

7008+00	7008+25	7008+50	7008+75	7009+00	7009+25	7009+50	7009+75	7010+00	7010+25	7010+50	7010+75	7011+00	7011+25	7011+50	7011+75	7012+00	7012+25	7012+50	7012+75	7013+00	7013+25	7013+50	7013+75	7014+00
430.0	430.7	424.4	427.1	423.3	421.0	419.8	418.7	417.6	416.4	415.2	414.1	412.9	411.9	410.7	409.6	408.5	407.2	406.0	404.8	403.5	402.3	401.0	399.7	398.3
428.70	427.23	425.82	424.47	423.16	421.92	420.73	419.57	418.41	417.19	415.97	414.73	413.49	412.25	411.02	409.78	408.54	407.29	406.04	404.79	403.55				

I-91 PHASE 1B CROSSOVER-S PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

I-91 NB STA. 22159+44.82, 14.0' LT =
I-91 PHASE 1B CROSSOVER-S STA. 7014+00

PT (I-91 PHASE 1B CROSSOVER-S)
STA. 7014+00.00

STA. 7012+00
0.020 TW

STA. 7013+00
0.034 TW

PI (PHASE 1B CROSSOVER-S)
STA. 7008+31.00

I-91 PHASE 1B CROSSOVER-S - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

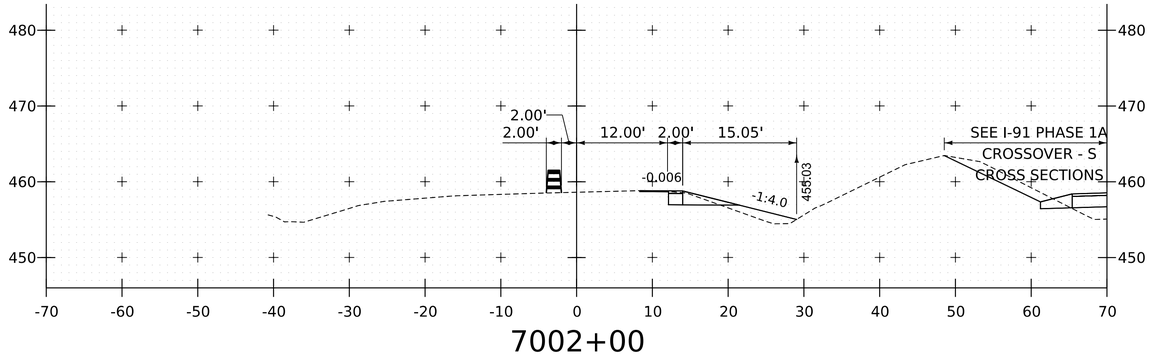
THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

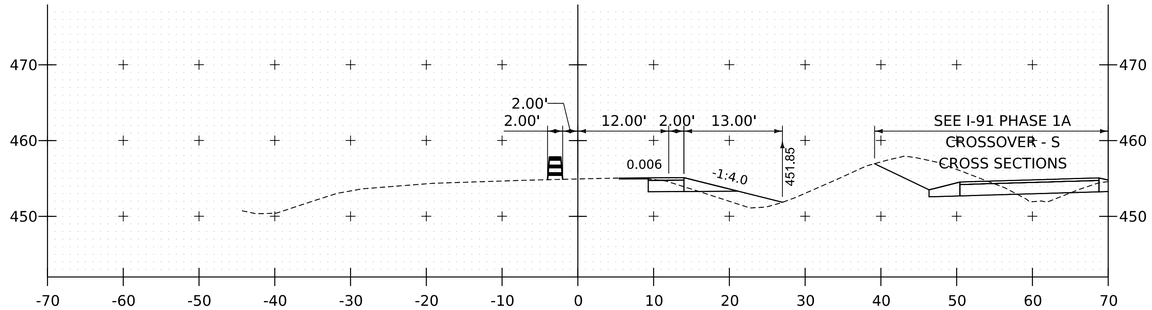
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574pro_SB_Xover_S.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1B CROSSOVER-S PROFILE 2

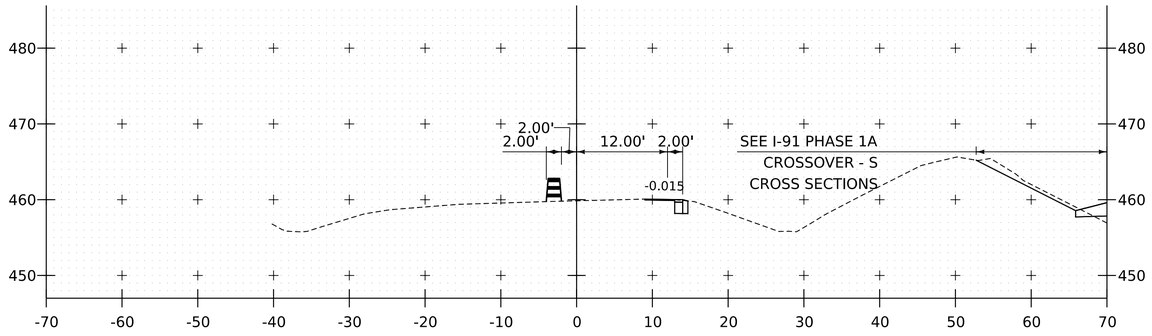
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 203 OF 922



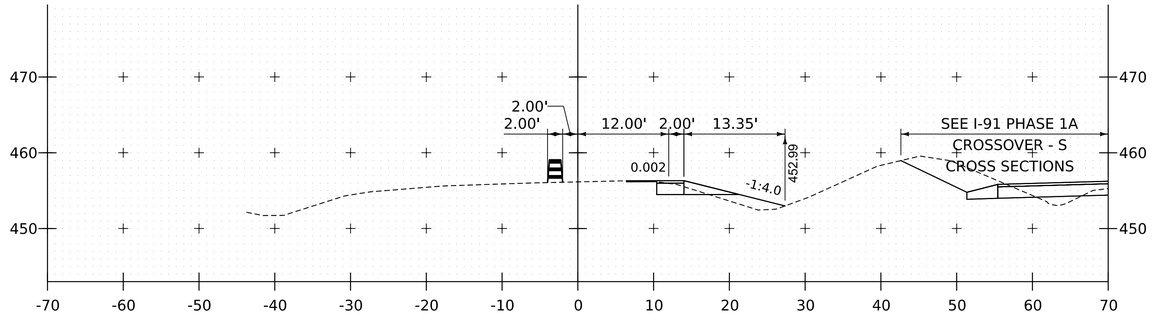
7002+00



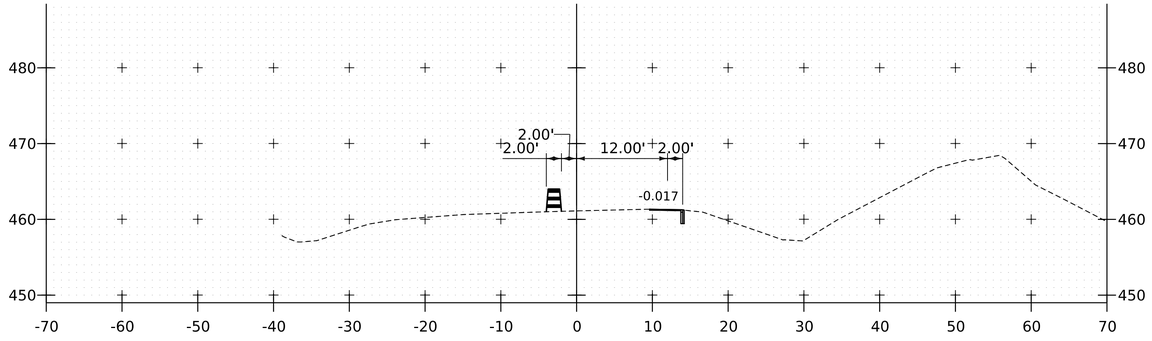
7002+75



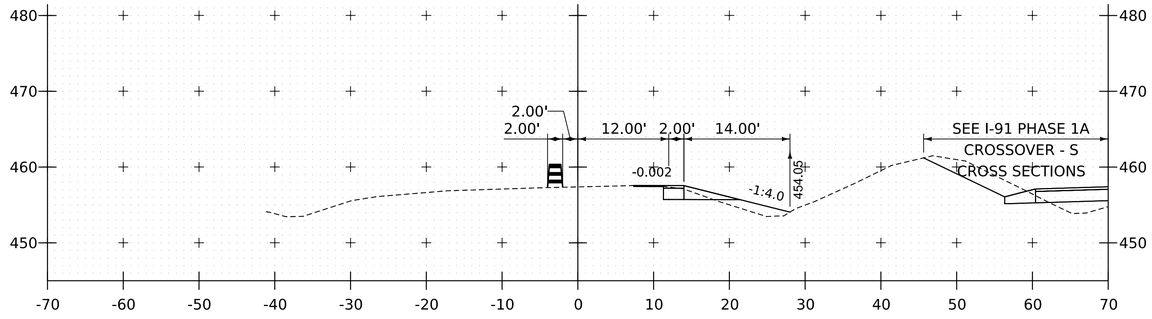
7001+75



7002+50



7001+50

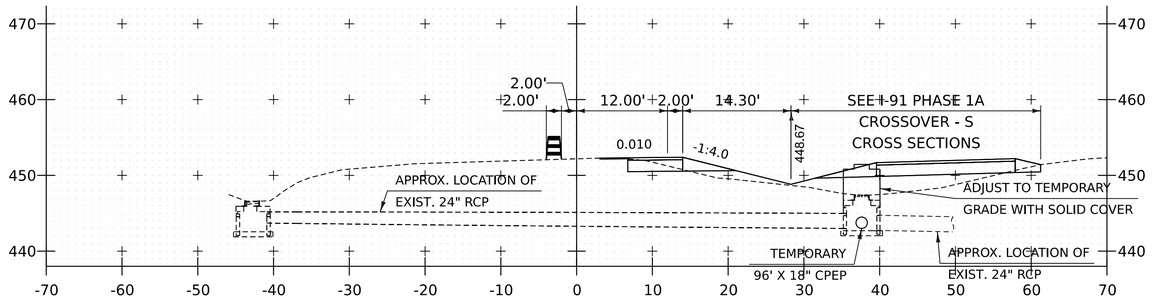


7002+25

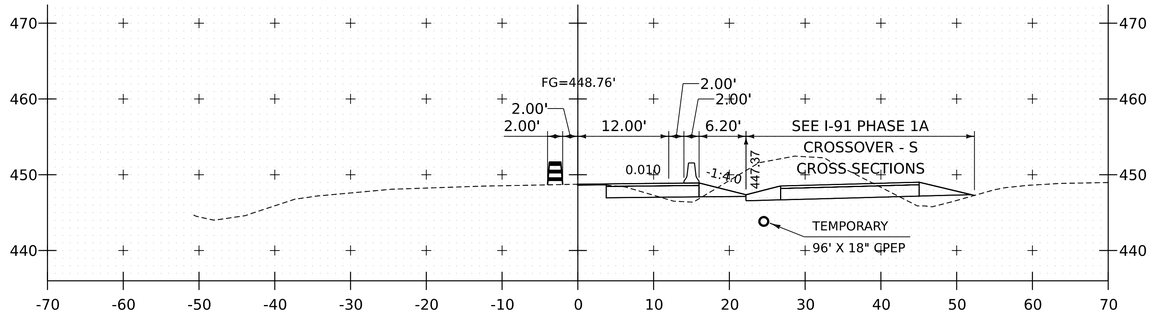
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_SB_Xover_S.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 1

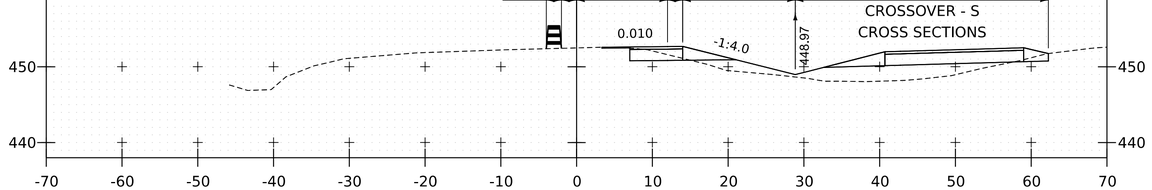
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 204 OF 922



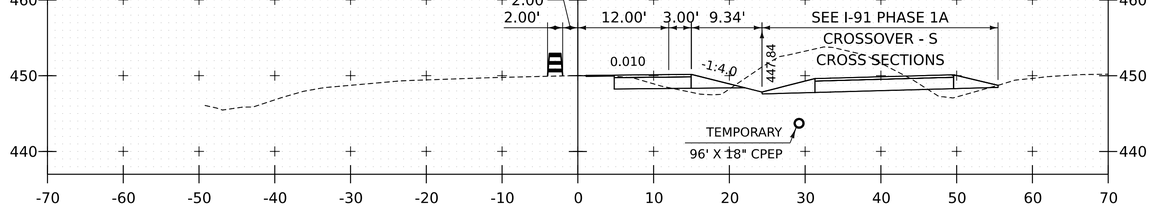
7003+31



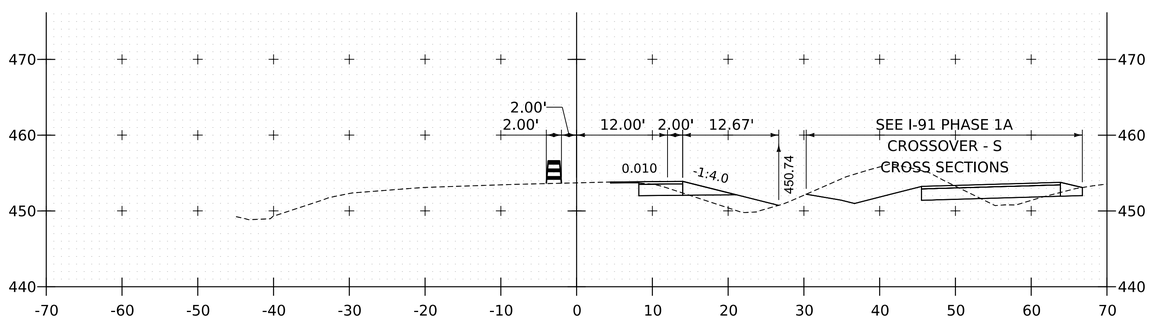
7004+00



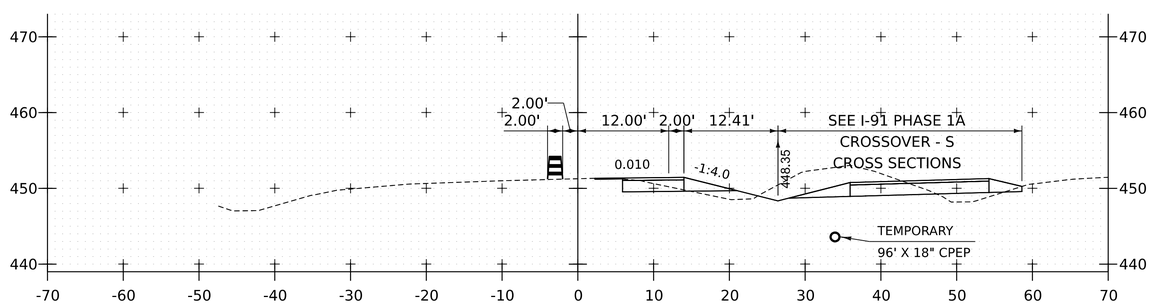
7003+25



7003+75



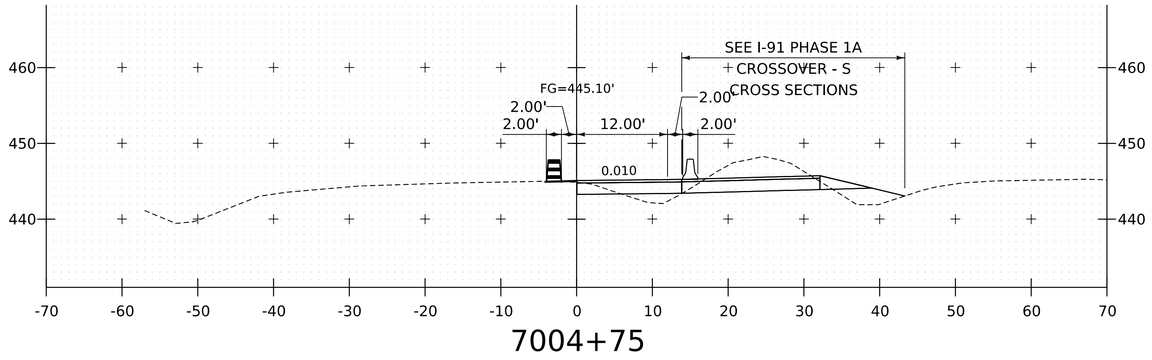
7003+00



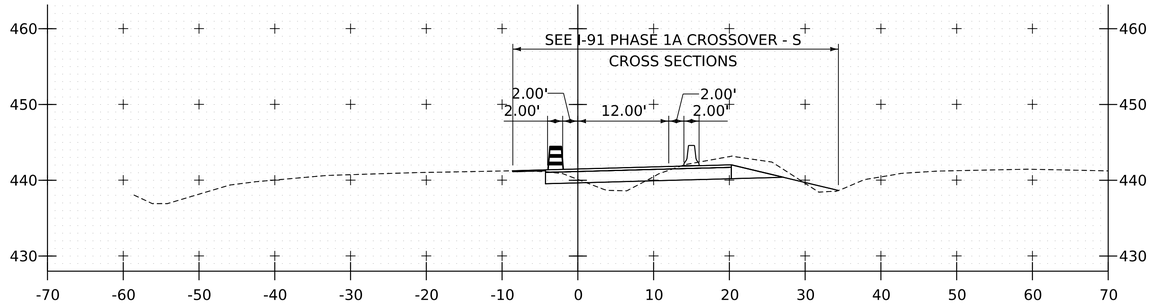
7003+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_SB_Xover_S.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 2	SHEET 205 OF 922

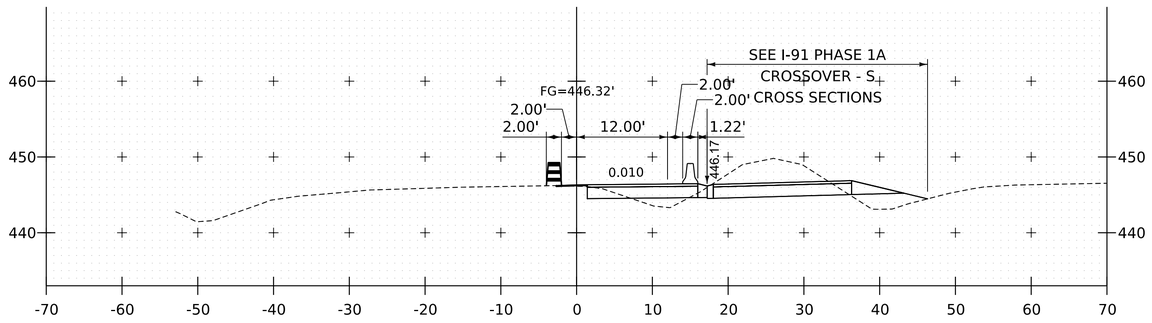
HNTB



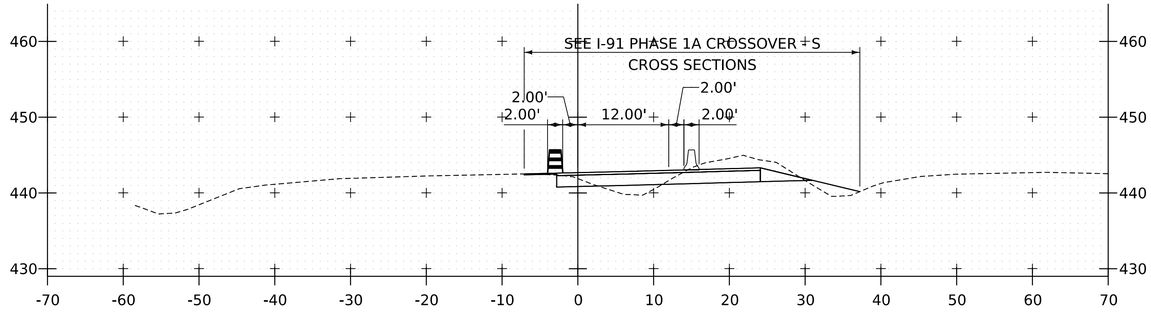
7004+75



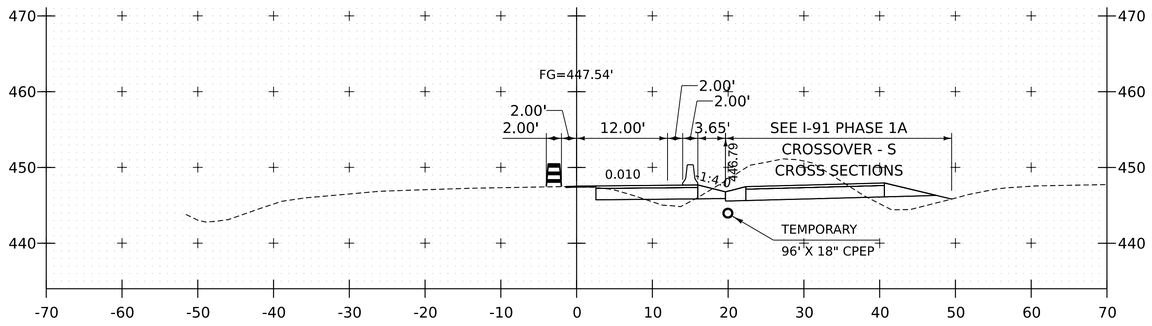
7005+50



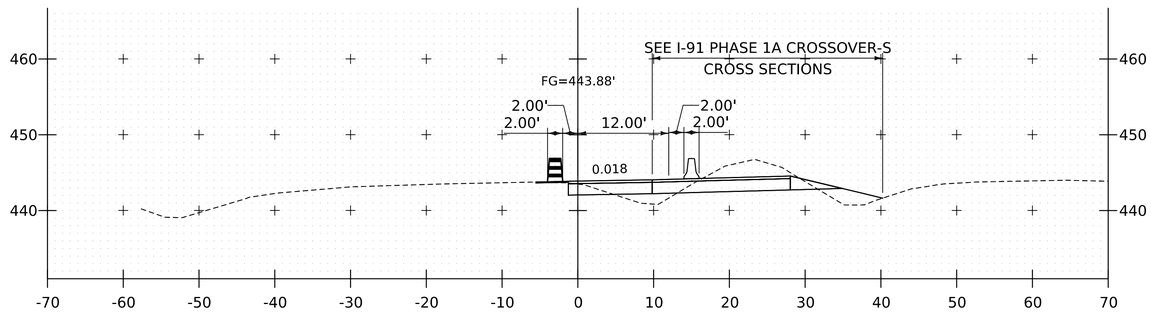
7004+50



7005+25



7004+25



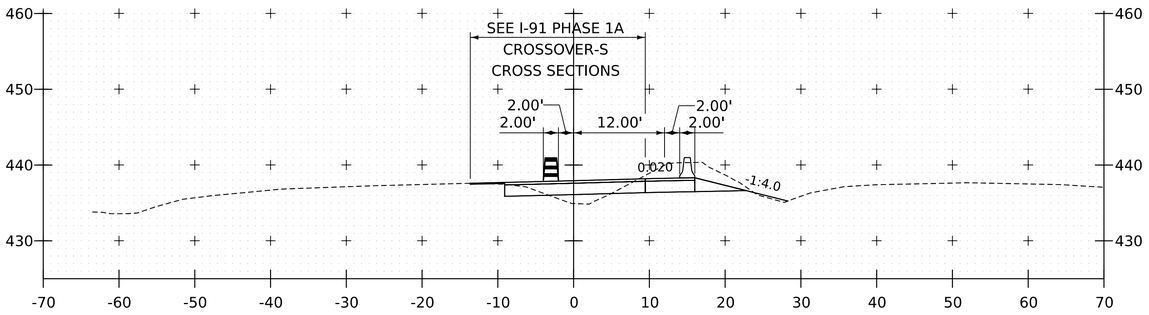
7005+00

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

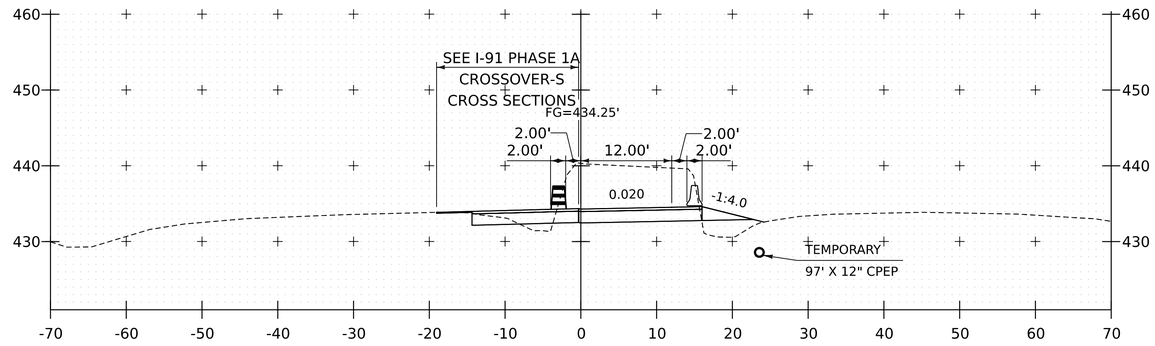
FILE NAME: z12a574xs_SB_Xover_S.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 3

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 206 OF 922

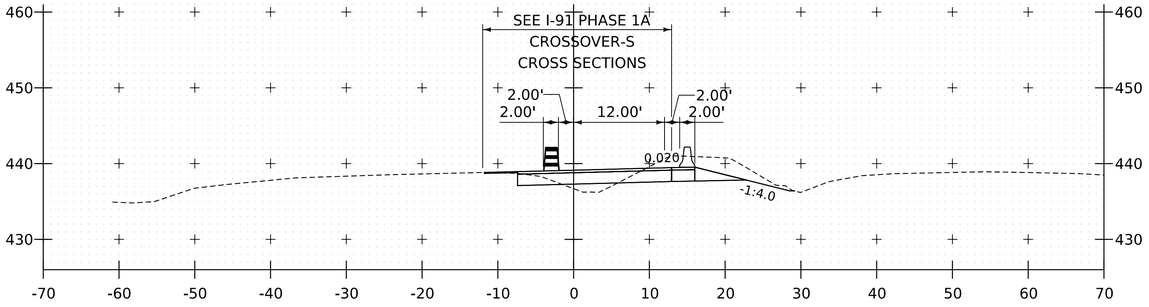
HNTB



7006+25



7007+00



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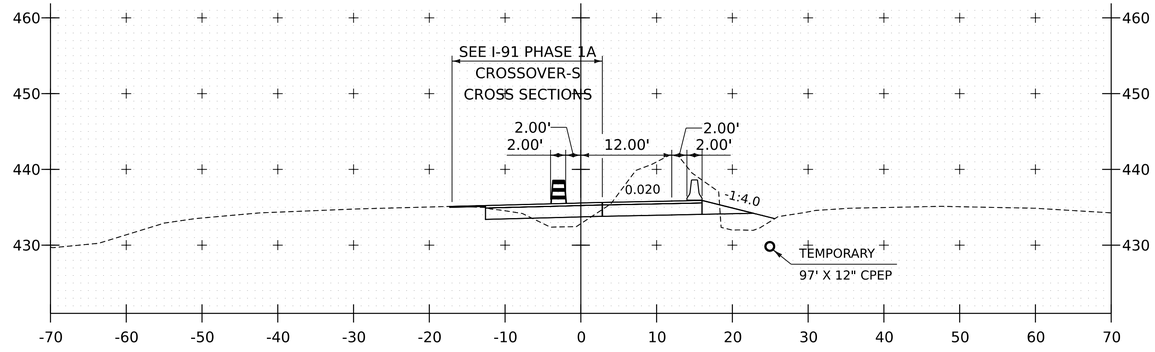

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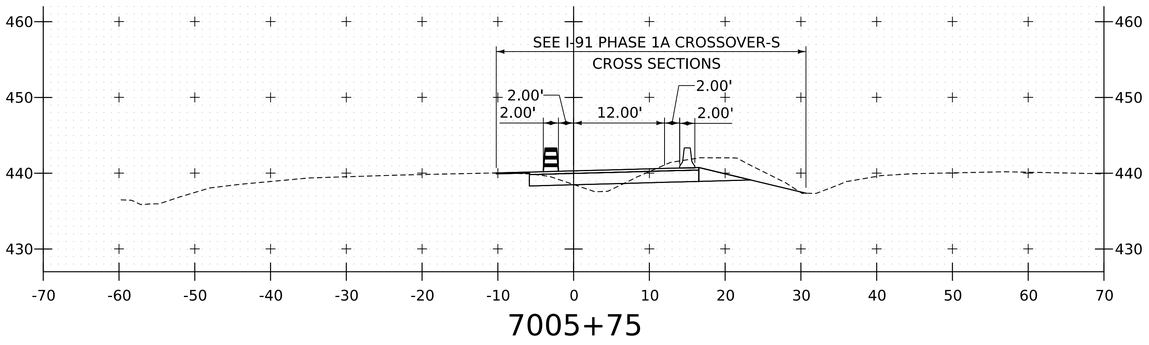

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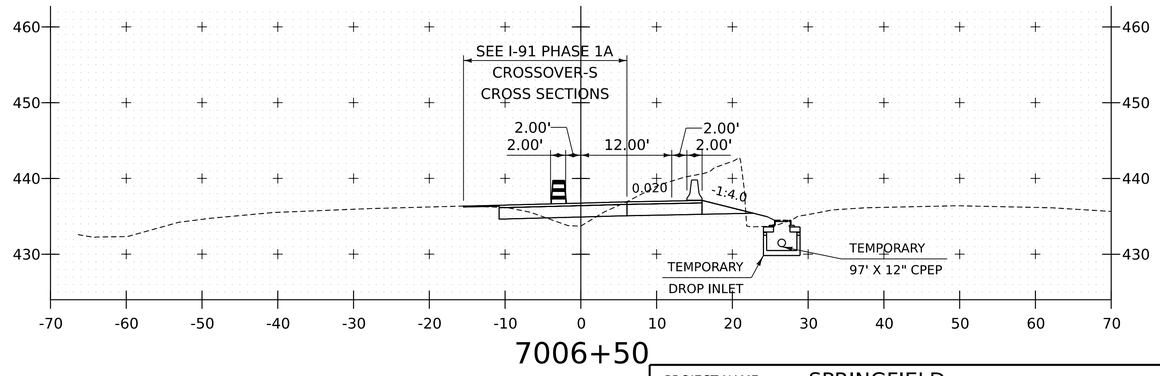
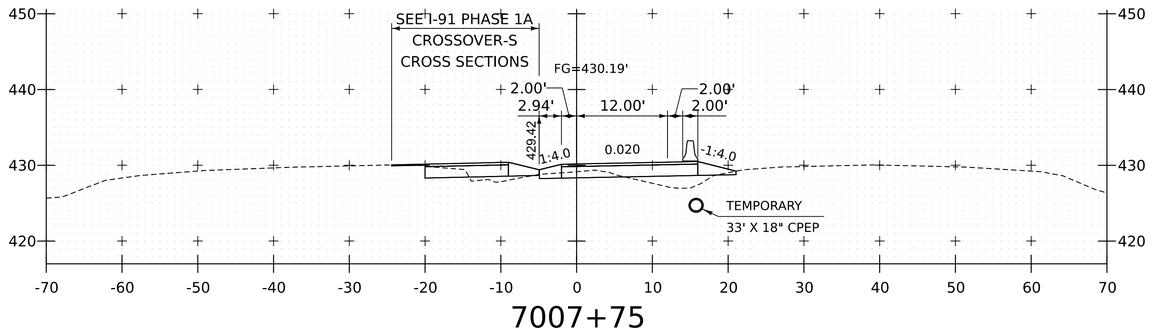


7006+50

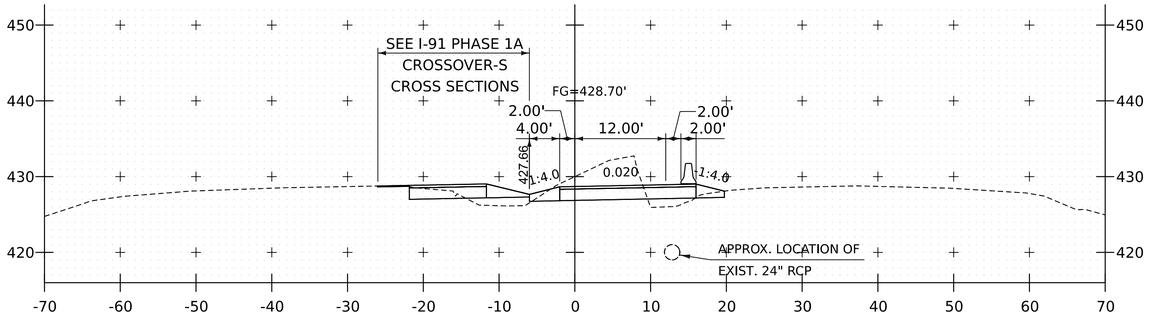
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 4		SHEET	207 OF 922



7007+75



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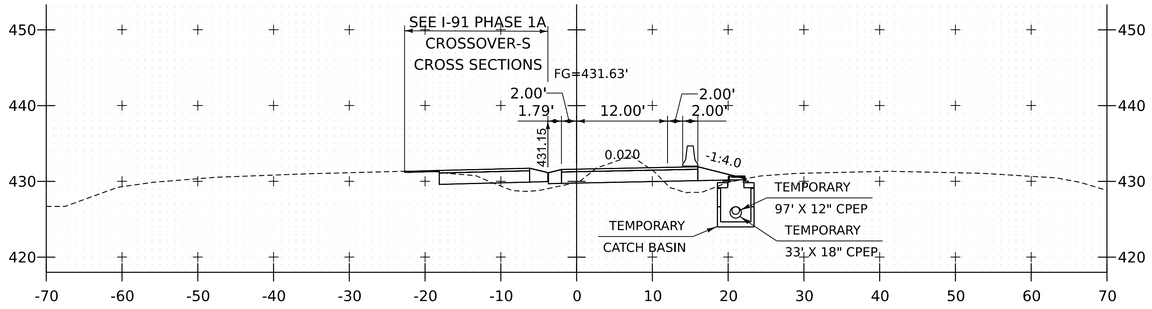

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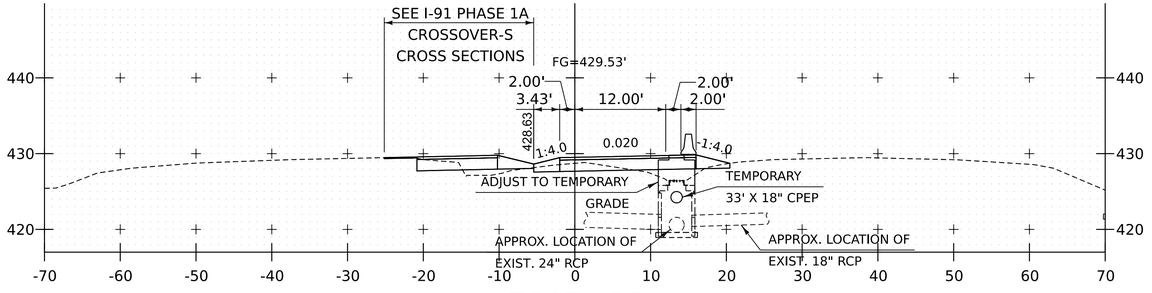

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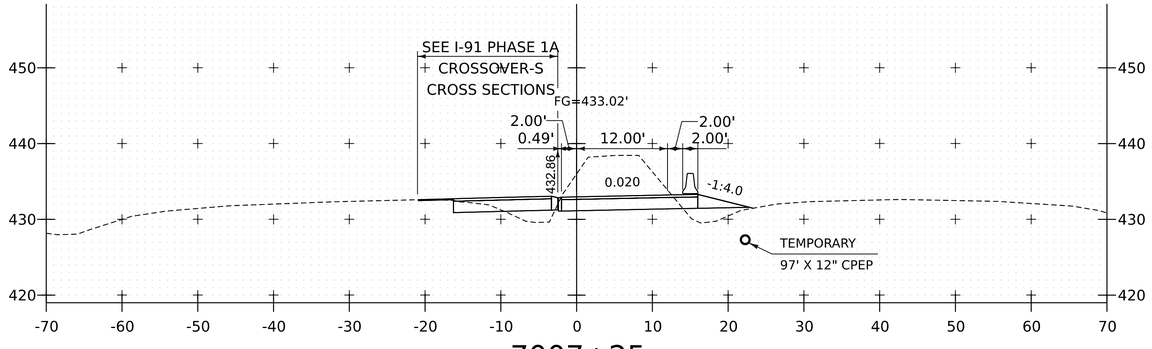

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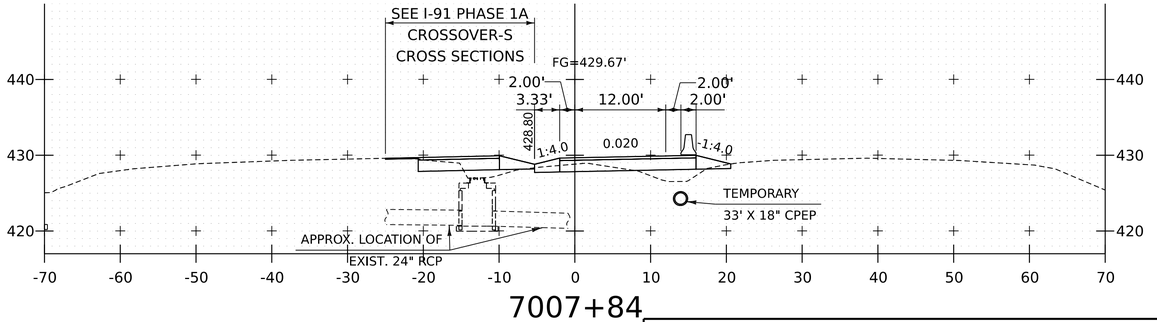
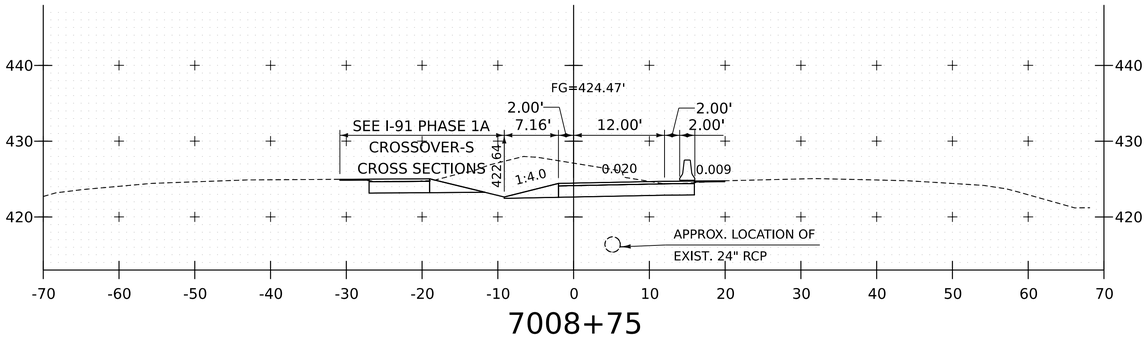


7007+84

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 5		SHEET	208 OF 922

HNTB



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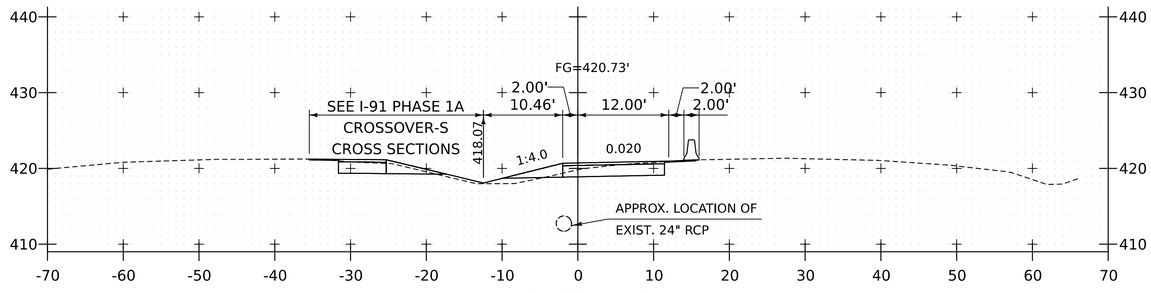

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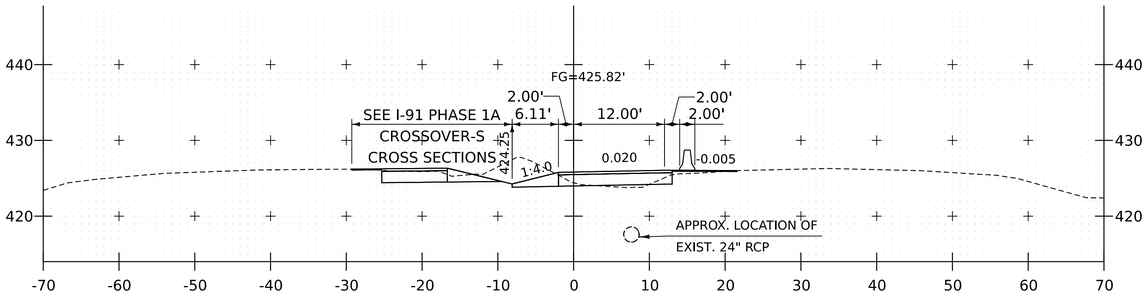

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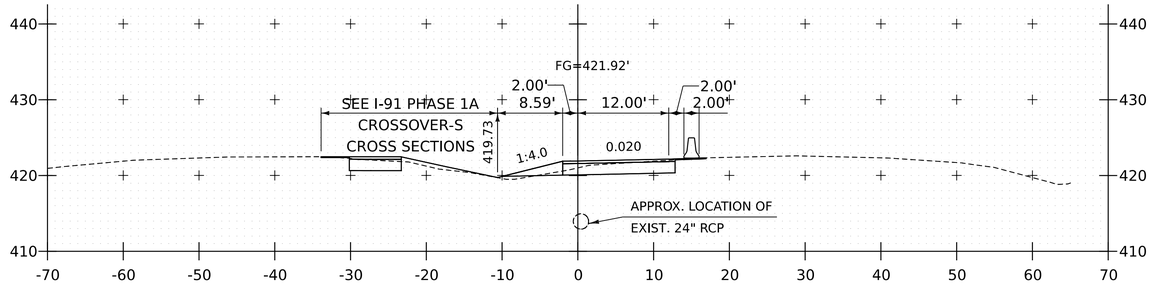

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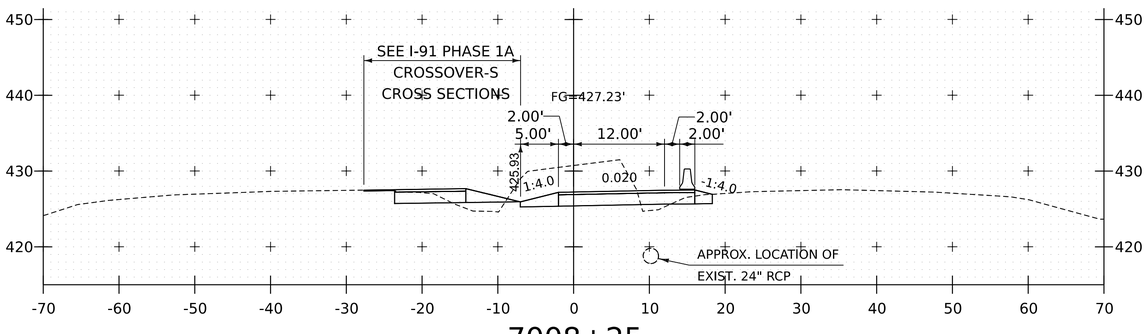

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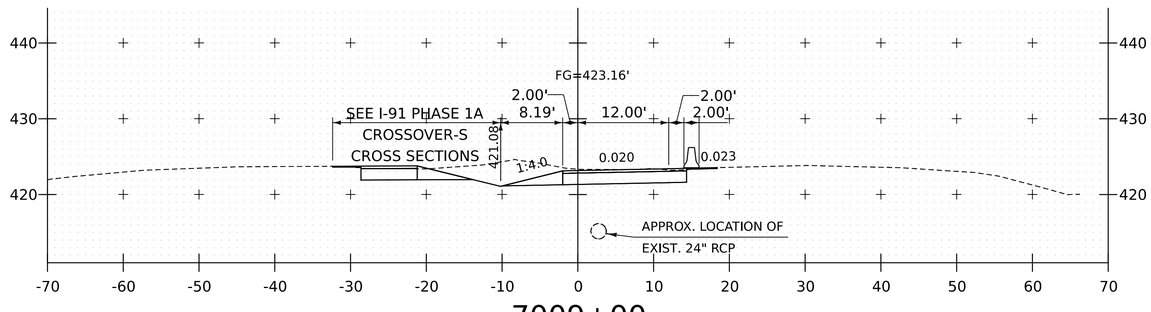
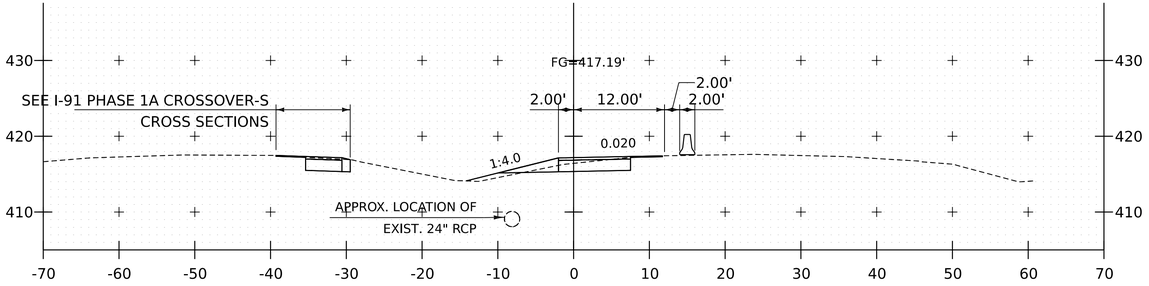


7009+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 6		SHEET	209 OF 922



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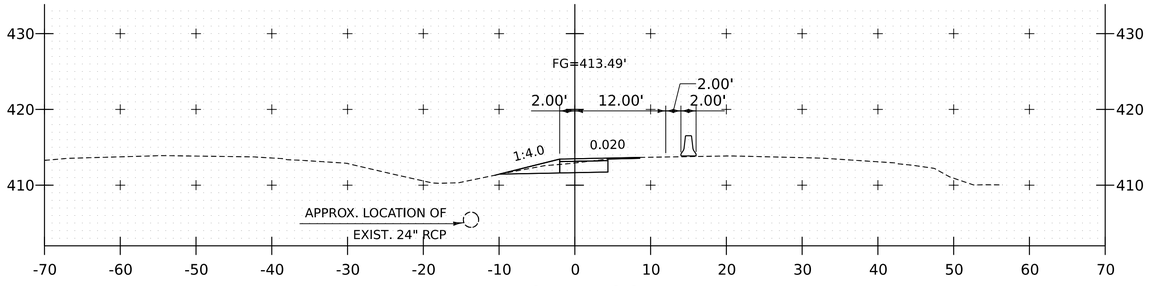

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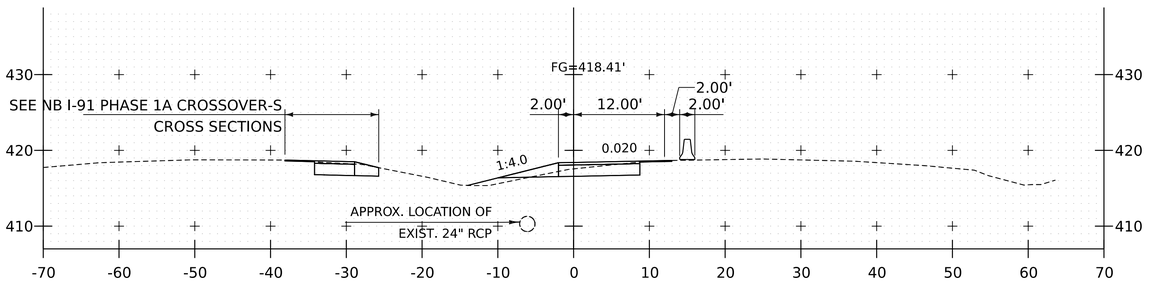

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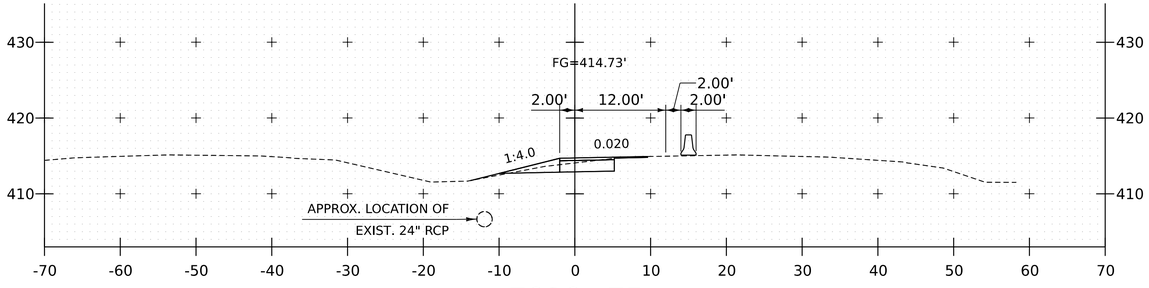

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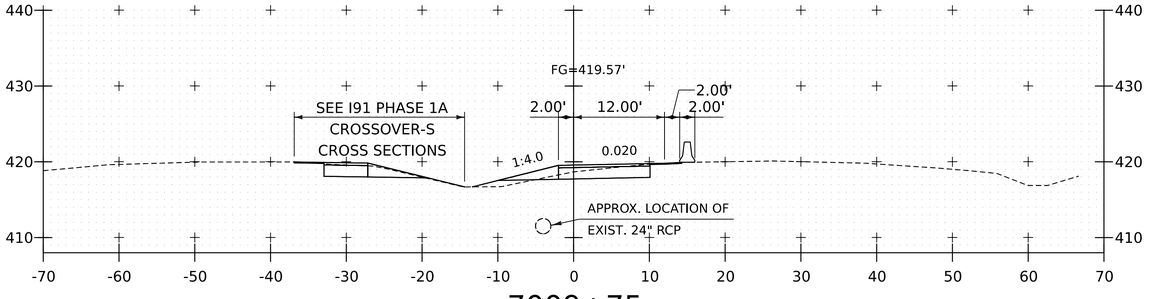

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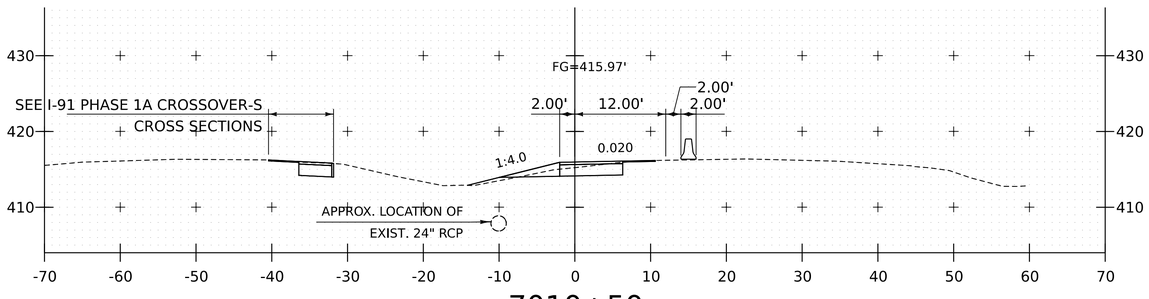
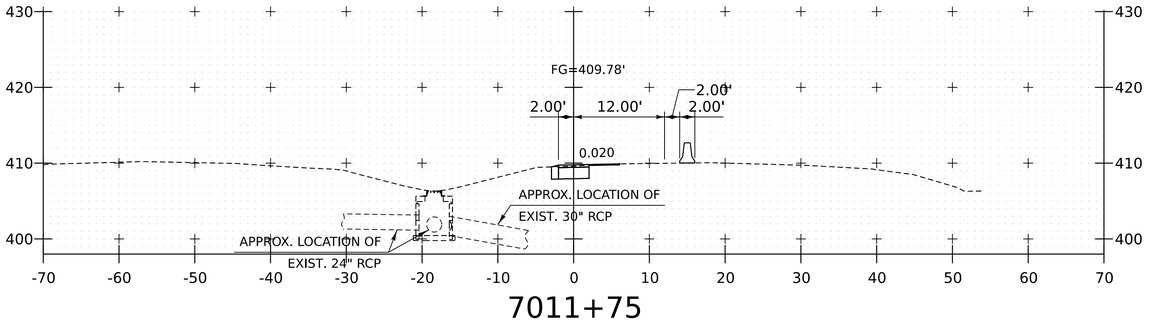


7010+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 7		SHEET	210 OF 922

HNTB



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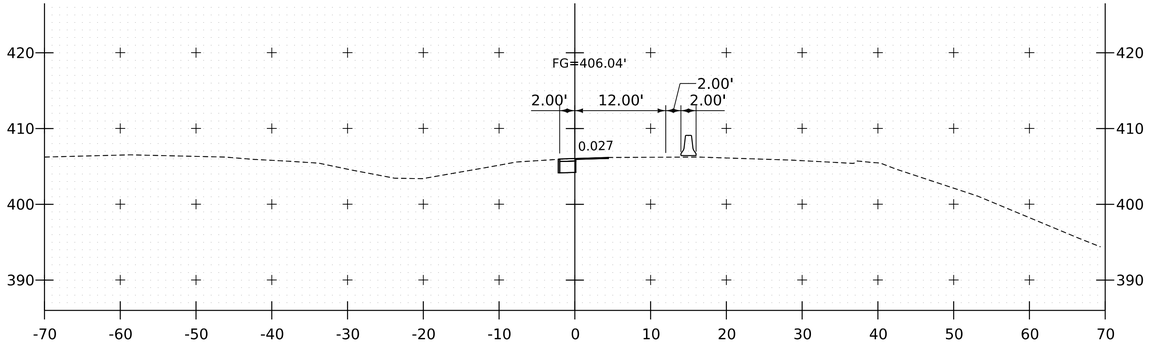

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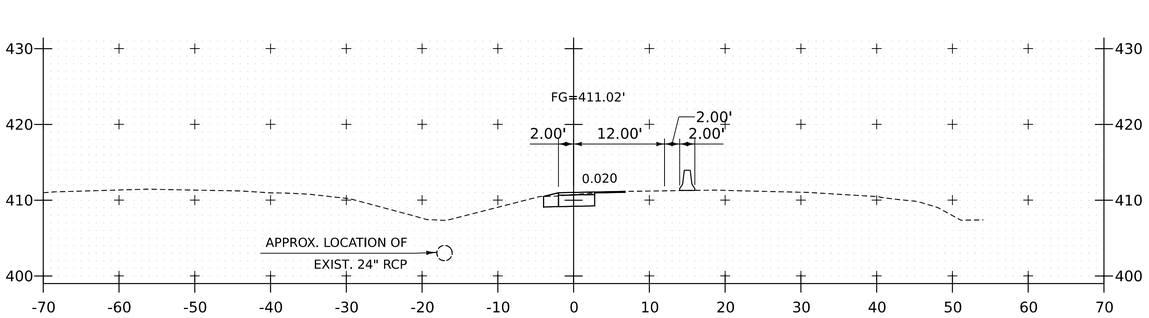
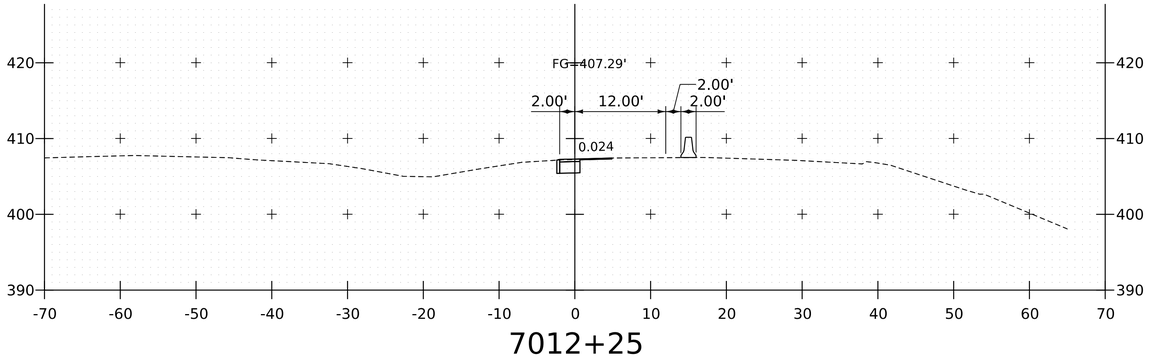


7011+50



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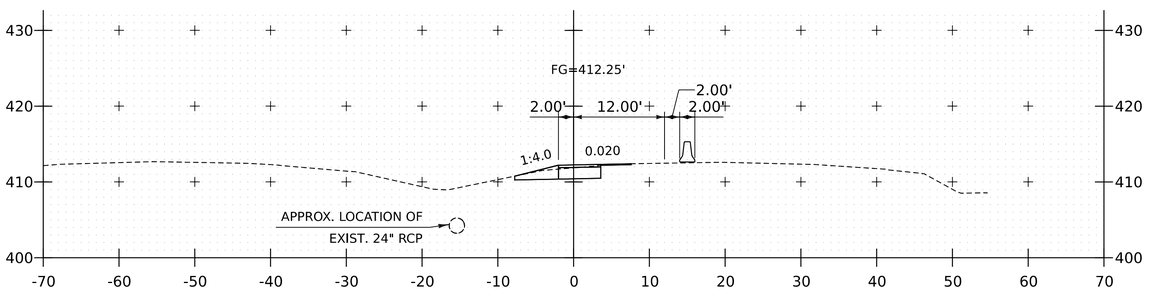
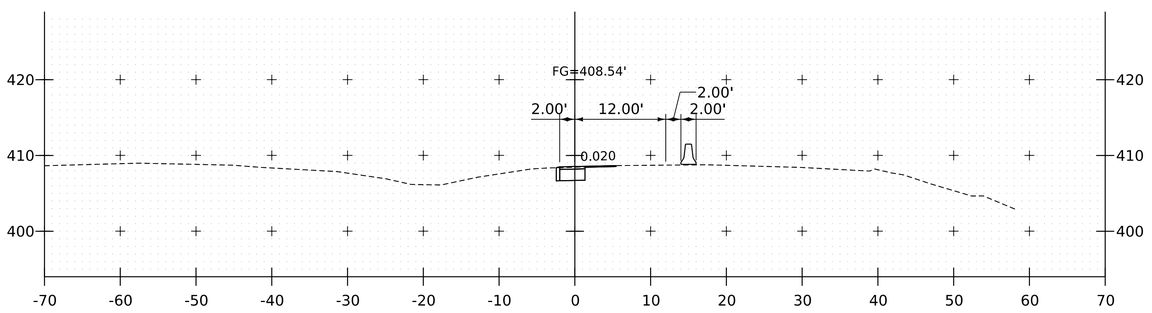


7011+25

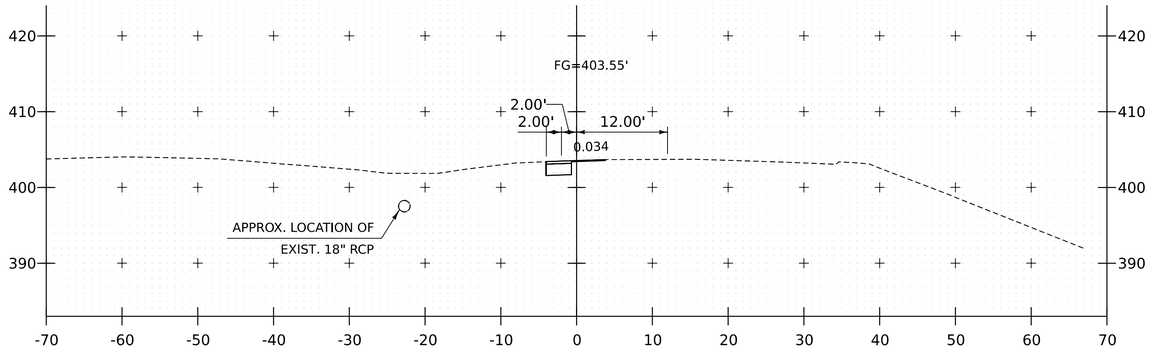


7012+00

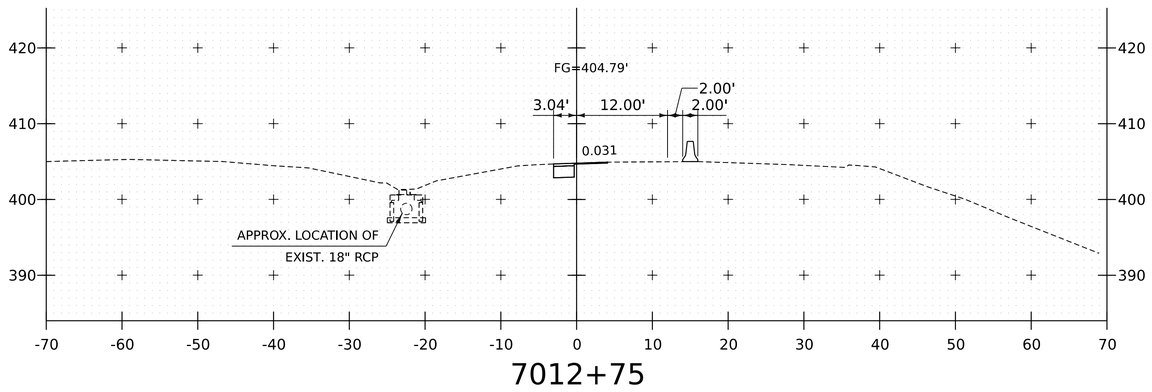
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 8		SHEET	211 OF 922

HNTB



7013+00



7012+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_S.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 1B CROSSOVER-S CROSS SECTION 9		SHEET	212 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12146+50 TO 12147+75 RT
STA 22142+50 TO 22147+75 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22142+50 LT

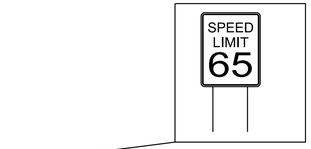
TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12145+50 TO 12147+75 CL (SOLID)

PAVEMENT MARKING MASK
STA 12145+50 CL TO 12147+75 RT
STA 12145+50 TO 12147+51 RT

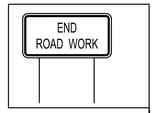
N

VT STATE PLANE GRID

STA 12137+00 LT



STA 12141+50 RT/LT



12136+00 12137+00 12138+00 12139+00 12140+00 12141+00 12142+00 12143+00 12144+00 12145+00 12146+00 12147+00

BEGIN I-91 SOUTHBOUND APPROACH
STA. 12146+50.00
MATCH EXISTING

SYL

4' 10' 12' 12' 10' 12' 4' 4'

BEGIN I-91 NORTHBOUND APPROACH
STA. 22143+00.00
MATCH EXISTING

22136+00 22137+00 22138+00 22139+00 22140+00 22141+00 22142+00 22143+00 22144+00 22145+00 22146+00 22147+00

1:16 TAPER

4' 12' 10' 12' 10' 4'

MATCH LINE STA 22147+75

STA 22135+50 RT



LEGEND:

☒	TYPE III BARRICADE
☒	TYPE III BARRICADE (MODIFIED)
//////	PAVEMENT MARKING MASK
⊕	PLASTIC DRUM
oooooo	IMPACT ATTENUATOR
▬	TEMPORARY PAVEMENT
▨	WORK ZONE
═══	TEMPORARY CONCRETE BARRIER
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
DWL	DOTTED WHITE LINE
BWL	BROKEN WHITE LINE
→	TRAFFIC FLOW ARROW
⇢	FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:

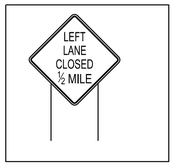
STA 22071+10 RT/LT



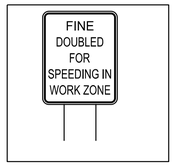
STA 22097+50 RT/LT



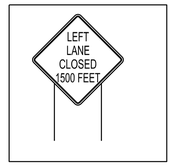
STA 22102+50 RT/LT



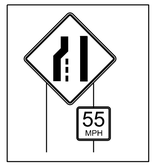
STA 22107+50 RT/LT



STA 22112+50 RT/LT



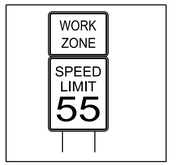
STA 22117+50 LT



STA 22117+50 RT



STA 22122+50 RT/LT



STA 22127+50 LT



ARROW BOARD

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 1		SHEET 213	OF 922

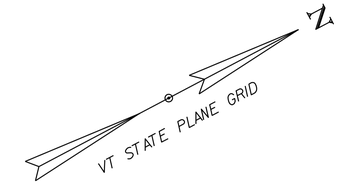
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12147+75 TO 12159+00 RT
STA 22147+75 TO 22158+50 LT

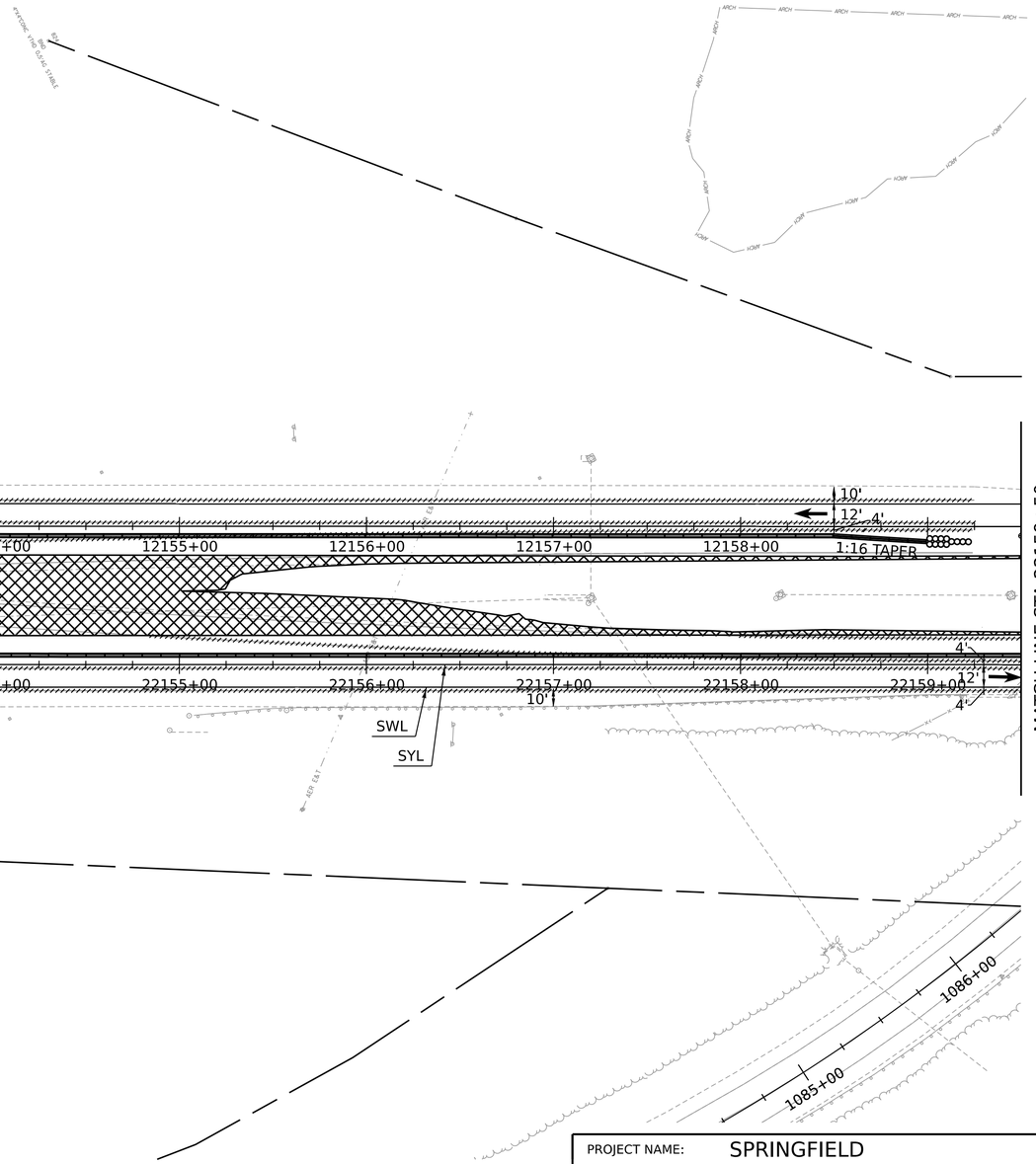
ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12159+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12147+75 TO 12159+50 CL (SOLID)
STA 22147+75 TO 22159+50 CL (SOLID)

TEMPORARY 6 INCH YWHITE LINE, PAINT
STA 22153+00 TO 22159+50 CL (SOLID)

PAVEMENT MARKING MASK
STA 12147+75 TO 12150+23 RT
STA 12149+00 CL TO 12159+25 LT
STA 12149+00 TO 12159+25 LT
STA 12152+24 TO 12159+25 RT
STA 22153+00 TO 22159+50 RT
STA 22153+00 CL TO 22159+50 RT
STA 22154+83 TO 22159+50 LT
STA 22158+00 TO 22159+50 LT





SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 2		SHEET 214	OF 922

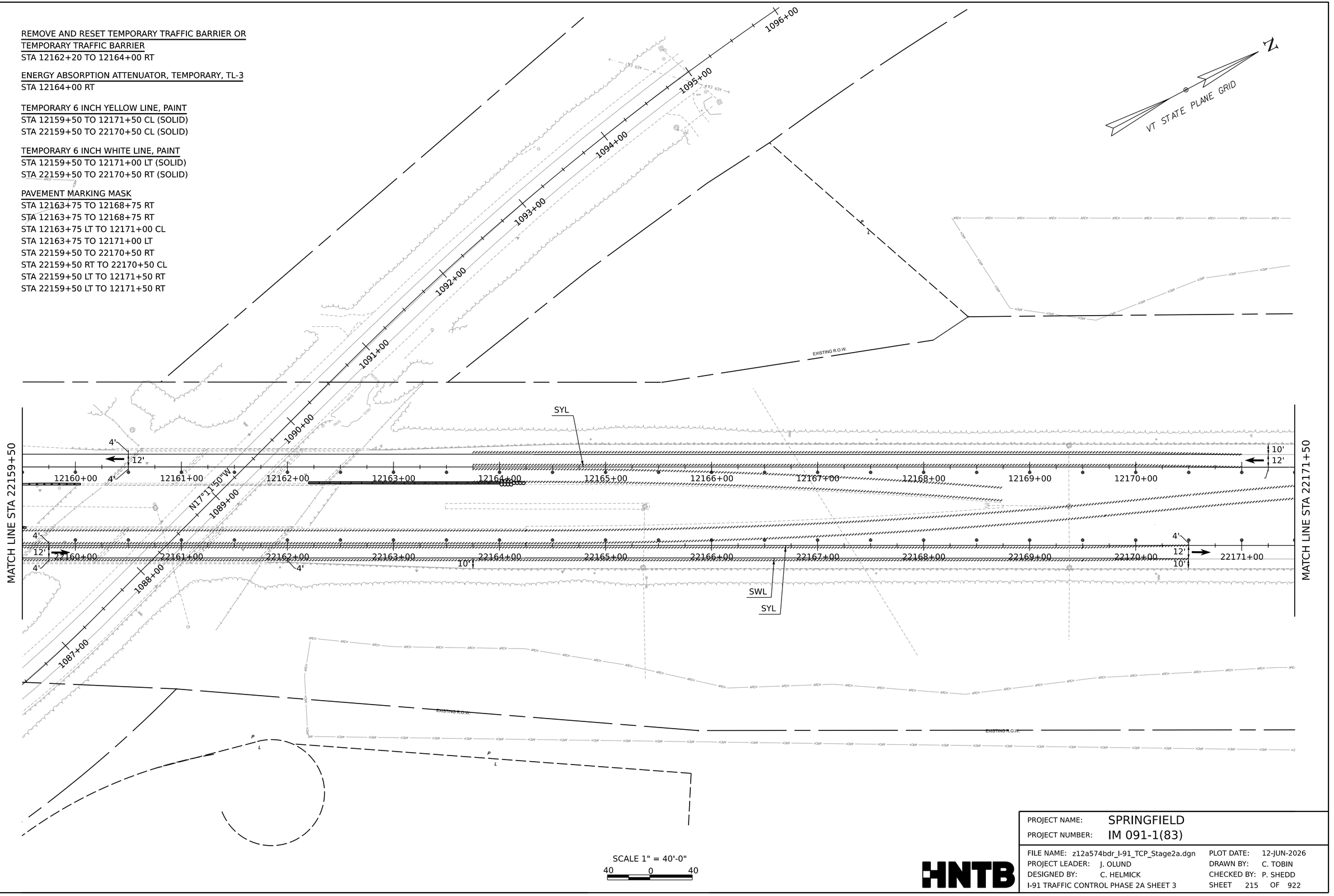
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12162+20 TO 12164+00 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12164+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12159+50 TO 12171+50 CL (SOLID)
STA 22159+50 TO 22170+50 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12159+50 TO 12171+00 LT (SOLID)
STA 22159+50 TO 22170+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 12163+75 TO 12168+75 RT
STA 12163+75 TO 12168+75 RT
STA 12163+75 LT TO 12171+00 CL
STA 12163+75 TO 12171+00 LT
STA 22159+50 TO 22170+50 RT
STA 22159+50 RT TO 22170+50 CL
STA 22159+50 LT TO 12171+50 RT
STA 22159+50 LT TO 12171+50 RT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 3	SHEET 215 OF 922

HNTB

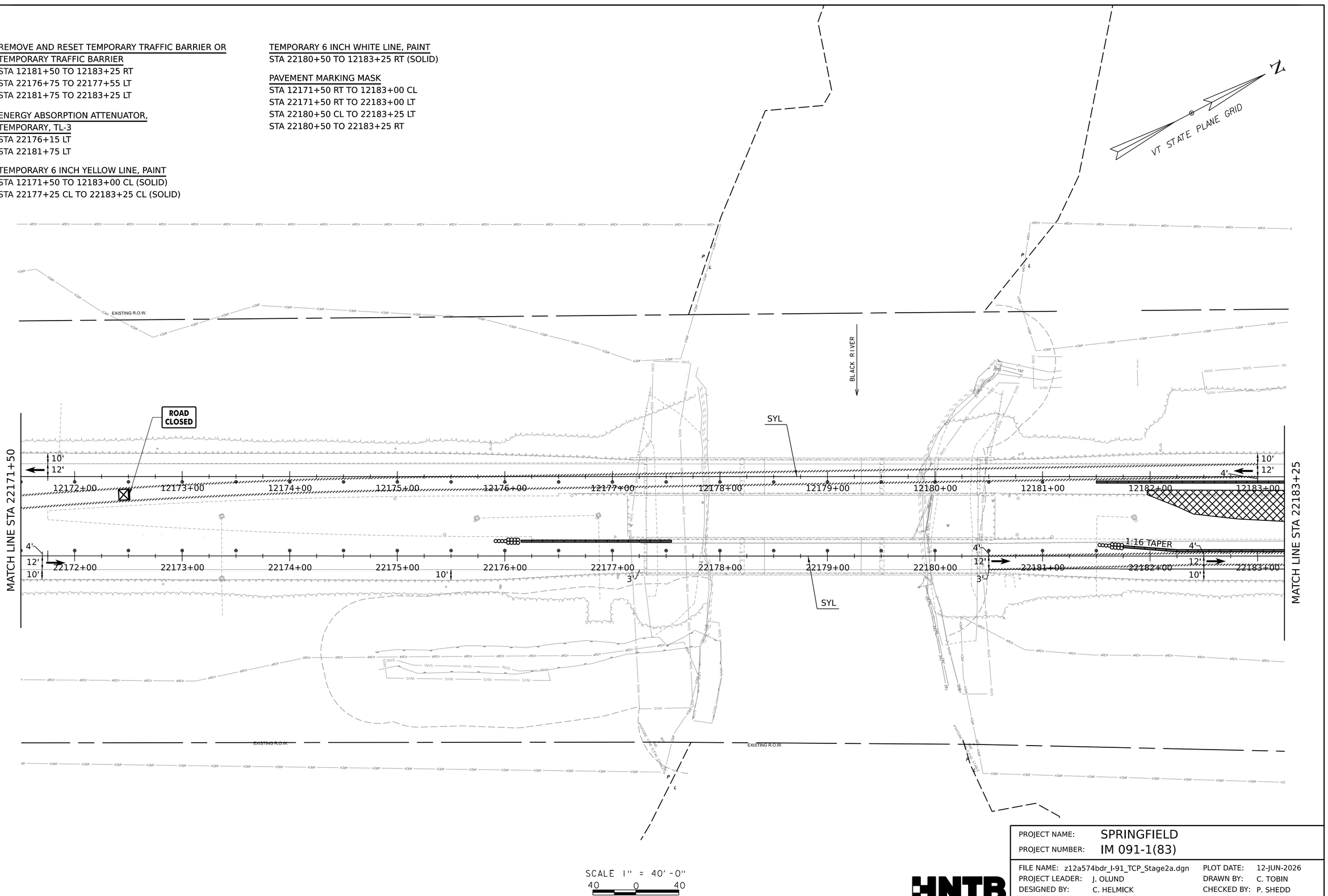
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12181+50 TO 12183+25 RT
STA 22176+75 TO 22177+55 LT
STA 22181+75 TO 22183+25 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22176+15 LT
STA 22181+75 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12171+50 TO 12183+00 CL (SOLID)
STA 22177+25 CL TO 22183+25 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22180+50 TO 12183+25 RT (SOLID)

PAVEMENT MARKING MASK
STA 12171+50 RT TO 12183+00 CL
STA 22171+50 RT TO 22183+00 LT
STA 22180+50 CL TO 22183+25 LT
STA 22180+50 TO 22183+25 RT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 4	SHEET 216 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 202+00 TO 204+00 LT
STA 12183+25 TO 12192+00 RT
STA 22183+25 TO 22189+45 LT
STA 22192+60 TO 22193+59 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 202+00 LT
STA 12192+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 202+00 TO 204+56 LT (SOLID)
STA 22183+25 TO 22194+75 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 200+00 TO 204+58 RT (SOLID)
STA 22183+25 TO 22190+25 RT (SOLID)
STA 22192+25 TO 22194+75 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 200+00 TO 202+00 LT (SOLID)
STA 22184+00 TO 22189+75 RT (DASHED)
STA 22189+75 TO 22192+23 RT (SOLID)

PAVEMENT MARKING MASK
STA 22183+25 TO 22194+75 LT
STA 22183+25 TO 22194+75 RT

VT STATE PLANE GRID

EXISTING R.O.W.

MATCH LINE STA 22183+25

MATCH LINE STA 22194+75

SYL

DWL

SWL

STA 22187+00 LT

WORK ZONE
SPEED LIMIT 55

STA 22193+00 RT

EXIT 7

1:16 TAPER

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_I-91_TCP_Stage2a.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
I-91 TRAFFIC CONTROL PHASE 2A SHEET 5	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. TOBIN
CHECKED BY:	P. SHEDD
SHEET	217 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12201+80 CL TO 12205+70 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12205+70 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 204+56 TO 211+60 LT (SOLID)
STA 300+20 TO 305+10 LT (SOLID)
STA 12200+75 TO 12206+00 CL (SOLID)
STA 22194+75 TO 22206+50 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 204+58 TO 211+61 RT (SOLID)
STA 210+50 TO 211+54 CL (SOLID)
STA 300+19 TO 305+08 RT (SOLID)
STA 12200+75 TO 12206+00 LT (SOLID)
STA 22194+75 TO 22206+50 RT (SOLID)

TEMPORARY LETTER OR SYMBOL, PAINT
STA 210+50 LT (LEFT ARROW)
STA 210+50 RT (RIGHT ARROW)
STA 211+41 LT (LEFT ARROW)
STA 211+41 RT (RIGHT ARROW)

TEMPORARY 24 INCH STOP BAR, PAINT
STA 211+54 (STOP BAR)

PAVEMENT MARKING MASK
STA 205+79 RT TO 206+31 LT
STA 205+90 RT TO 206+38 LT
STA 12294+75 TO 12206+00 CL
STA 12294+75 TO 12206+00 LT
STA 22194+75 TO 22206+50 LT
STA 22194+75 TO 22206+50 RT
STA 22197+31 TO 22199+40 RT
STA 22197+35 TO 22205+51 RT
STA 22204+03 TO 22205+54 RT

STA 12196+38 LT

VT STATE PLANE GRID

MATCH LINE STA 22194+75

MATCH LINE STA 12206+50

MATCH LINE STA 22206+50

1:16 TAPER

SWL

SYL

ROAD CLOSED
MOUNTED ON TYPE III BARRICADES

NOTE:
TRAFFIC CONTROL ON CHARLESTOWN RD NOT SHOWN,
SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 6		SHEET	218 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22208+00 TO 22217+25 RT

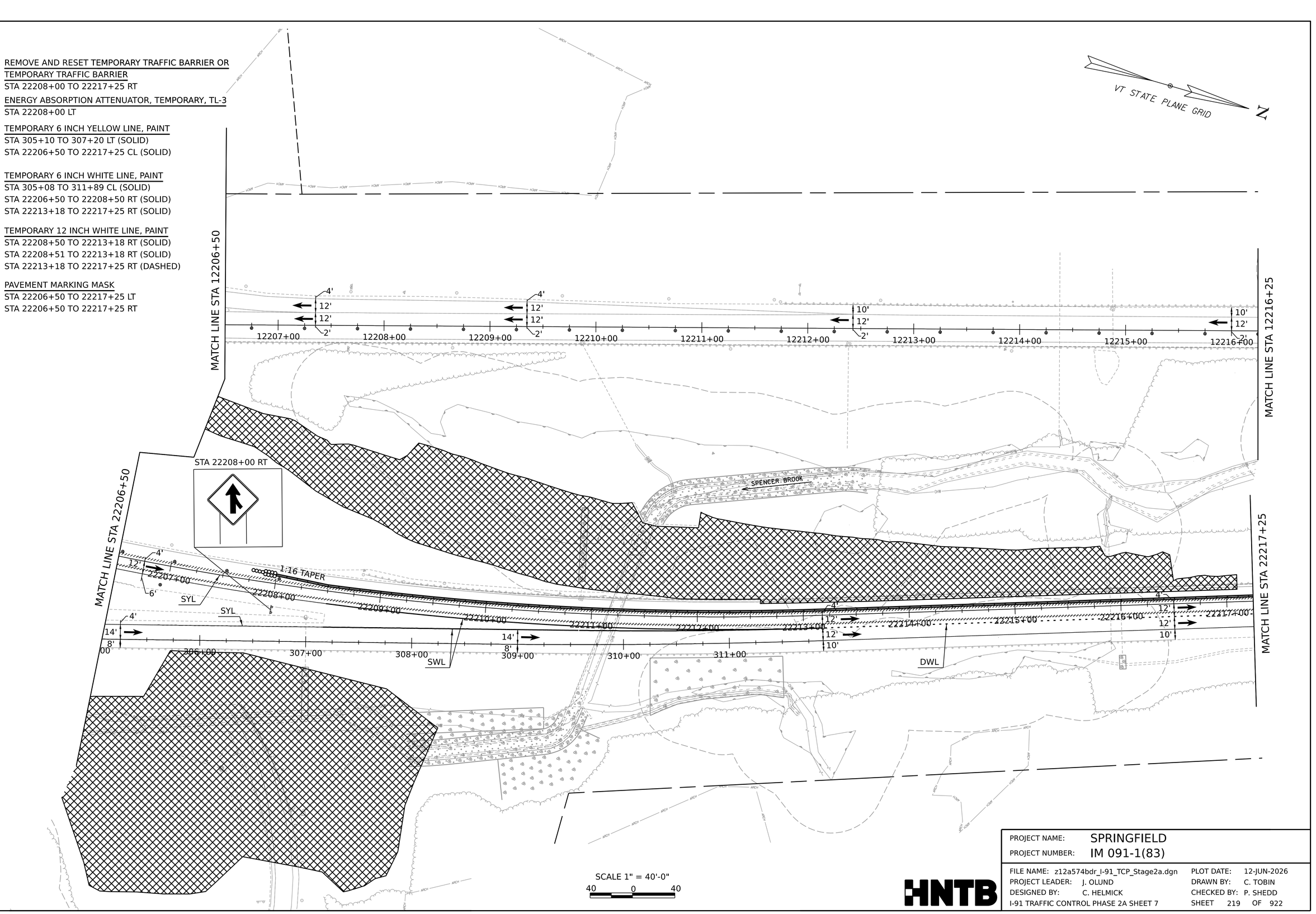
ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22208+00 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 305+10 TO 307+20 LT (SOLID)
STA 22206+50 TO 22217+25 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 305+08 TO 311+89 CL (SOLID)
STA 22206+50 TO 22208+50 RT (SOLID)
STA 22213+18 TO 22217+25 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 22208+50 TO 22213+18 RT (SOLID)
STA 22208+51 TO 22213+18 RT (SOLID)
STA 22213+18 TO 22217+25 RT (DASHED)

PAVEMENT MARKING MASK
STA 22206+50 TO 22217+25 LT
STA 22206+50 TO 22217+25 RT



SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 7		SHEET 219	OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22217+25 TO 22218+41 LT

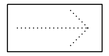
TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22217+25 TO 22218+50 CL (SOLID)
STA 22218+50 TO 22224+00 LT (SOLID)

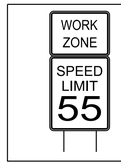
TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22217+25 TO 22224+00 RT (SOLID)
STA 22218+50 TO 22224+00 CL (BROKEN)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 22217+25 TO 22219+00 RT (DASHED)

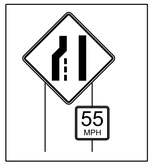
PAVEMENT MARKING MASK
STA 22217+25 TO 22224+00 RT
STA 22217+25 TO 22224+00 LT
STA 22217+25 TO 22224+00 LT

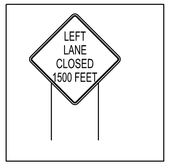
I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

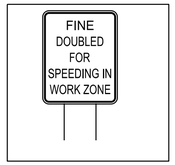
STA 12229+00 RT

ARROW BOARD

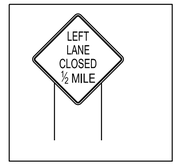
STA 12227+00 RT/LT


STA 12232+00 RT

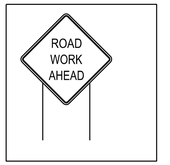

STA 12232+00 LT


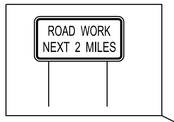
STA 12237+00 RT/LT


STA 12242+00 RT/LT


STA 12247+00 RT/LT


STA 12252+00 RT/LT


STA 12278+40 RT/LT


STA 12222+00 LT


STA 22229+00 RT/LT

STA 22234+00 RT

SCALE 1" = 40'-0"
40 0 40

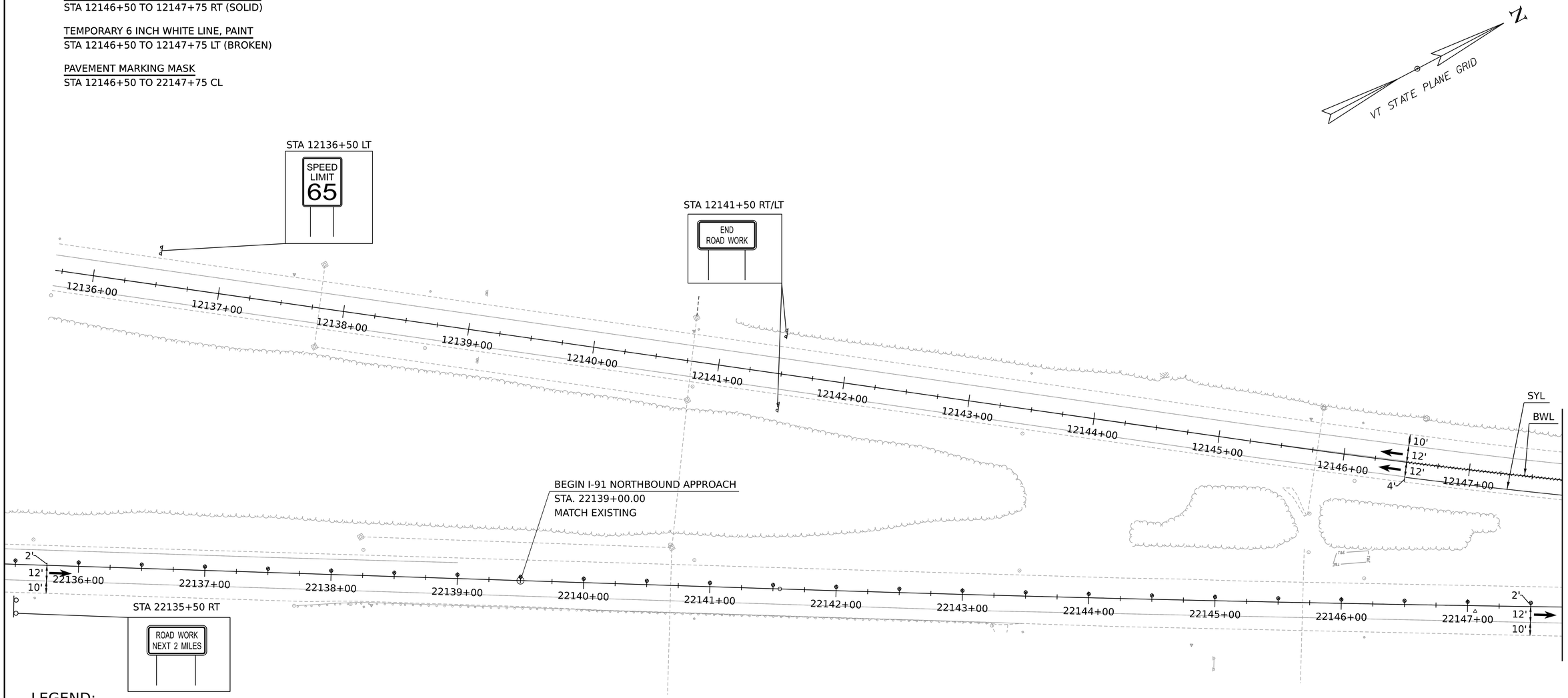
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2A SHEET 8		SHEET	220 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12146+50 TO 12147+75 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12146+50 TO 12147+75 LT (BROKEN)

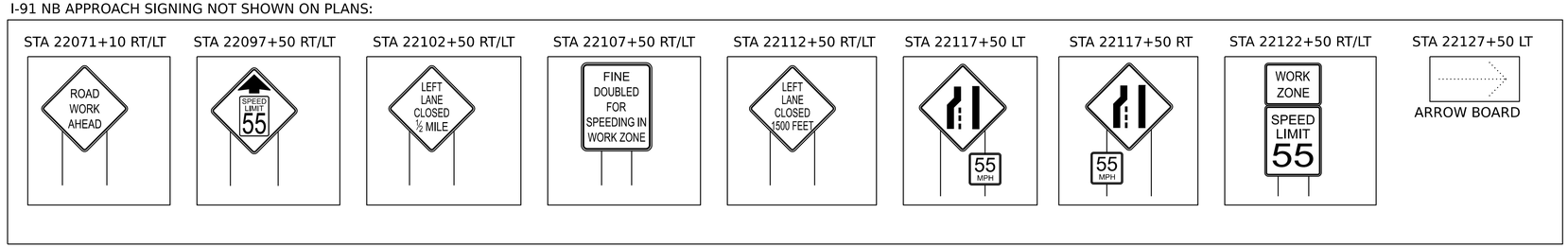
PAVEMENT MARKING MASK
STA 12146+50 TO 22147+75 CL



LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL — SOLID WHITE LINE
- SYL — SOLID YELLOW LINE
- DWL — DOTTED WHITE LINE
- BWL — BROKEN WHITE LINE
- TRAFFIC FLOW ARROW
- FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:



SCALE 1" = 40'-0"
40 0 40

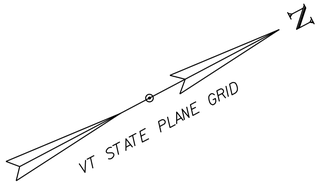
HNTB

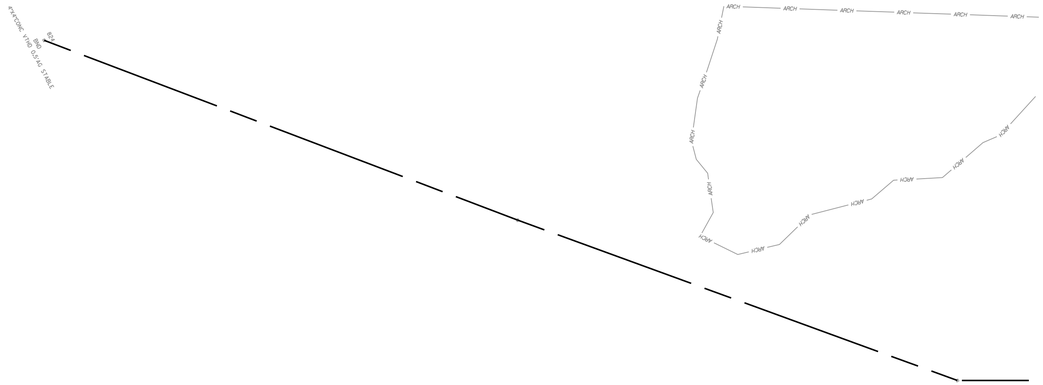
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 1		SHEET	221 OF 922

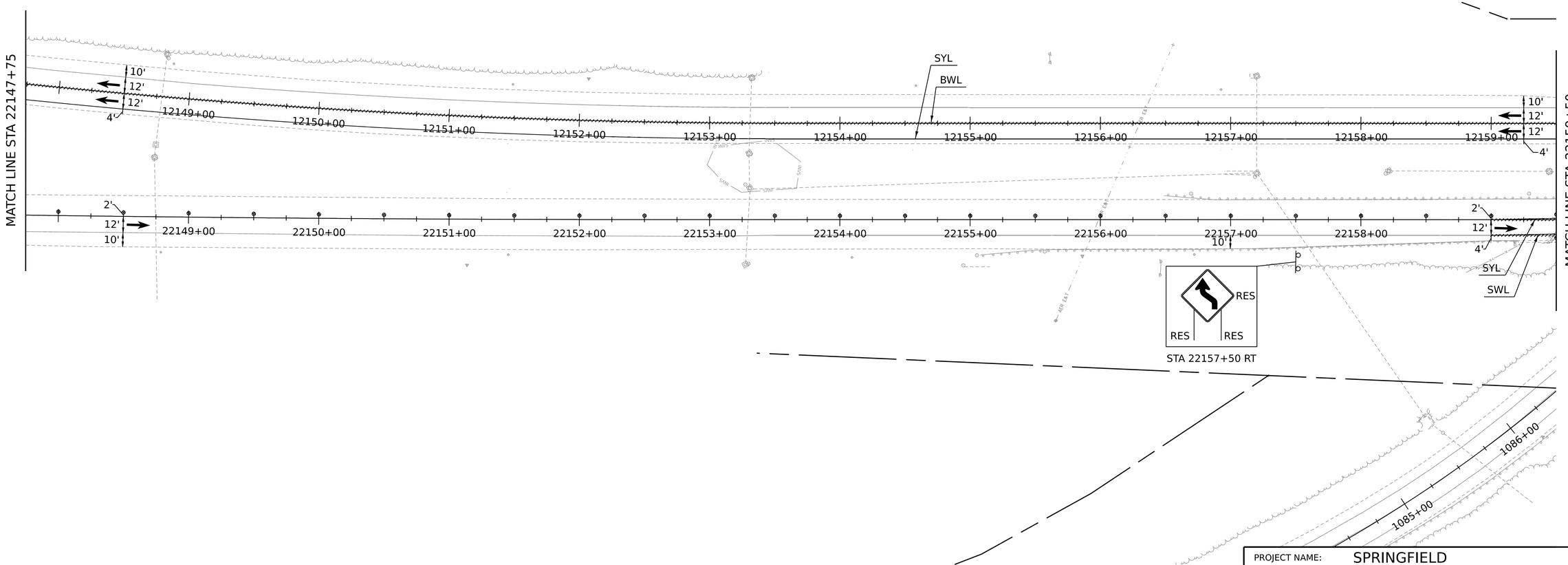
TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12147+75 TO 12159+50 RT (SOLID)
STA 12159+00 CL TO 12159+50 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12147+75 TO 12159+50 CL (BROKEN)
STA 12145+00 TO 12159+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 12147+75 TO 12159+50 CL
STA 22159+00 CL TO 22159+50 LT
STA 22159+00 TO 22159+50 RT







SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 2	SHEET 222 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12162+20 TO 12164+00 RT
STA 12168+75 RT TO 12171+50 CL
STA 5976+73 TO 5981+75 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12164+00 RT
STA 5976+73 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12159+50 TO 12163+75 RT (SOLID)
STA 12168+75 CL TO 12171+50 LT (SOLID)
STA 22159+50 LT TO 5981+75 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12159+50 TO 12163+75 CL (BROKEN)
STA 12168+75 TO 12171+50 LT (SOLID)

PAVEMENT MARKING MASK
STA 12159+50 TO 12163+50 CL
STA 12168+75 TO 12171+50 LT
STA 22159+50 TO 22167+00 RT
STA 22159+50 TO 22167+00 CL

N

VT STATE PLANE GRID

MATCH LINE STA 22159+50

MATCH LINE STA 22171+50

EXISTING R.O.W.

1087+00 1088+00 1089+00 1090+00 1091+00 1092+00 1093+00 1094+00 1095+00 1096+00

BWL SYL SWL

4' 12' 12' 4' 10' 12' 1' 12' 10' 1' 12' 8' 12'

12160+00 12161+00 12162+00 12163+00 12164+00 12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

22160+00 22161+00 22162+00 22163+00 22164+00 22165+00 22166+00 22167+00 22168+00 22169+00 22170+00 22171+00

5975+00 5976+00 5977+00 5978+00 5979+00 5980+00 5981+00

I-91 PHASE 2B CROSSOVER-S

1:16 TAPER

N22°22'07"E

ROAD CLOSED

MOUNTED ON TYPE III BARRICADES

PC 5974+25.00

PI 5976+98.77

PT 5979+72.13

PC 5980+54.75

I-91 PHASE 2B CROSSOVER-S
CURVE (5976+99)
DELTA = 05°27'07"
D = 00°59'47"
R = 5750.00'
T = 273.77'
L = 547.13'
E = 6.51'

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 3		SHEET	223 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12171+50 TO 12183+25 CL
STA 5981+75 RT TO 12177+16 RT
STA 12181+41 RT TO 5001+25 RT

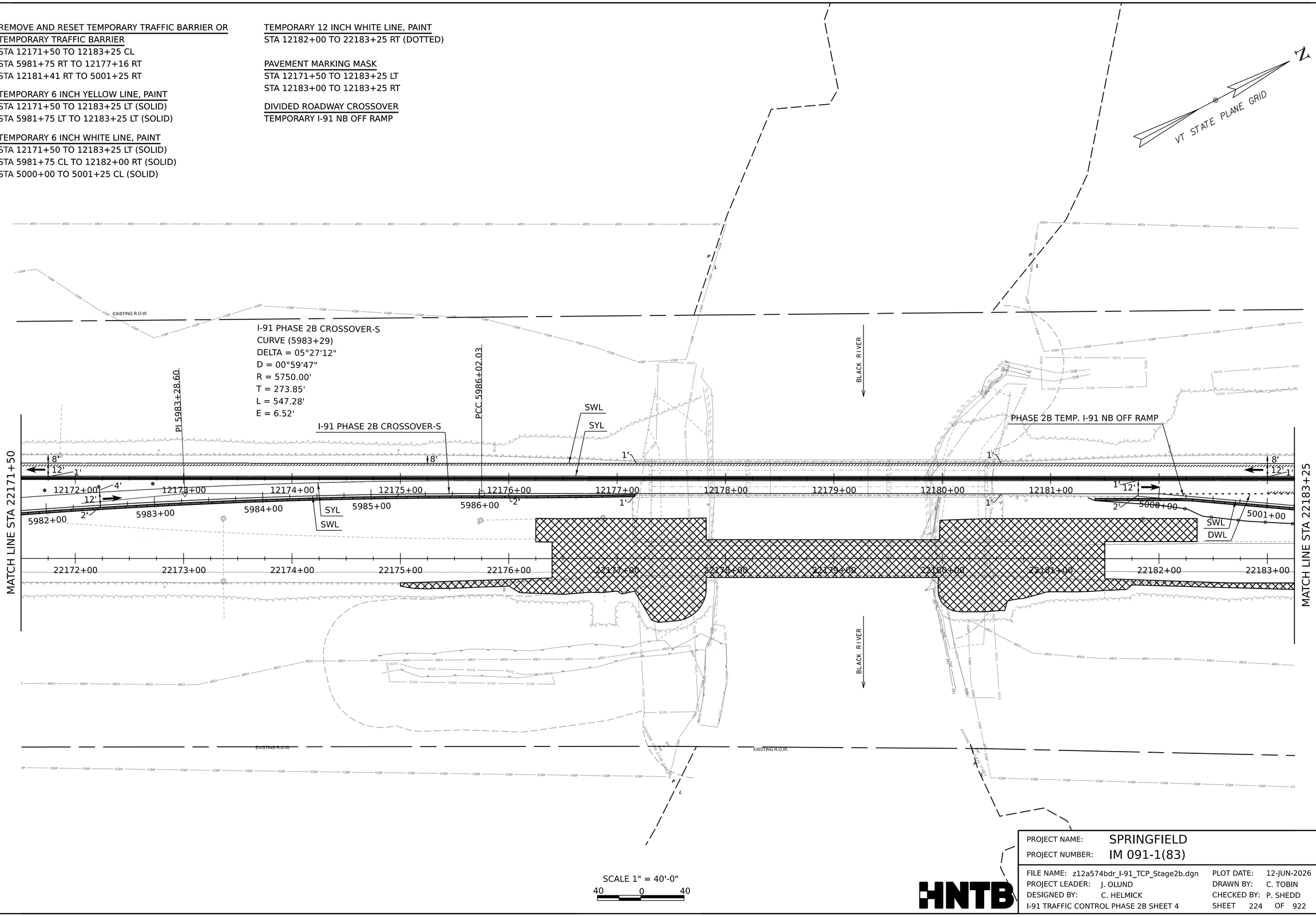
TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12171+50 TO 12183+25 LT (SOLID)
STA 5981+75 LT TO 12183+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12171+50 TO 12183+25 LT (SOLID)
STA 5981+75 CL TO 12182+00 RT (SOLID)
STA 5000+00 TO 5001+25 CL (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12182+00 TO 22183+25 RT (DOTTED)

PAVEMENT MARKING MASK
STA 12171+50 TO 12183+25 LT
STA 12183+00 TO 12183+25 RT

DIVIDED ROADWAY CROSSOVER
TEMPORARY I-91 NB OFF RAMP



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 4	SHEET 224 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 200+41 TO 204+50 LT
STA 5001+25 TO 5002+01 RT
STA 12183+25 TO 12194+75 CL
STA 12190+14 TO 12192+92 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 200+41 LT
STA 12190+14 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 5003+50 TO 5010+62 LT (SOLID)
STA 12183+25 TO 12194+75 LT (SOLID)
STA 12183+75 TO 12194+74 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 5001+25 CL TO 5010+62 RT (SOLID)
STA 12183+25 TO 12194+75 LT (SOLID)
STA 12185+50 TO 12194+75 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 5002+00 TO 5003+50 LT (SOLID)
STA 12184+00 TO 12185+50 RT (SOLID)
STA 12184+00 TO 12185+50 RT (CHEVRONS)
STA 12194+49 TO 12194+75 LT (SOLID)
STA 12194+49 TO 12194+75 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12183+25 TO 12184+00 RT (DASHED)
STA 12187+00 TO 12194+49 LT (DASHED)

PAVEMENT MARKING MASK
STA 200+00 TO 202+33 RT
STA 200+00 TO 202+33 LT
STA 12183+25 TO 12194+75 LT
STA 12183+25 TO 12194+75 RT
STA 12186+31 TO 12194+75 LT
STA 22186+48 TO 22192+25 LT
STA 22187+97 TO 22192+25 CL
STA 22188+48 TO 22191+25 RT

TEMPORARY ROADWAY WIDENING
STA 12185+50 TO STA 12190+50 RT

VT STATE PLANE GRID

STA 12185+40 RT
EXISTING R.O.W.
EXISTING R.O.W.
EXIT 7
TEMPORARY 83' X 18" CPEP
ADJUST DROP INLET TO TEMPORARY GRADE WITH SOLID COVER
SWL
SYL
TEMPORARY DROP INLET
DWL
CONNECT BARRIER TO BRIDGE
MATCH LINE STA 22183+25
MATCH LINE STA 22194+75
N32°49'19"E
1:16 TAPER
TEMP. ROADWAY WIDENING
1:11 TAPER
PHASE 2B TEMP. I-91 NB OFF RAMP
PC 5008+61.81
PI 5009+61.82
PCC 5010+61.71
EXISTING R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.

PHASE 2B TEMPORARY
I-91 NB OFF RAMP
CURVE (5009+62)
DELTA = 05°00'05"
D = 02°30'07"
R = 2290.00'
T = 100.01'
L = 199.90'
E = 2.18'

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 5		SHEET 225 OF 922	

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 204+50 TO 207+00 LT
STA 6000+49 TO 6005+00 RT
STA 12194+75 CL TO 6005+00 LT
STA 12202+75 CL TO 12205+65 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12205+65 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 6000+00 TO 6005+00 LT (SOLID)
STA 12194+75 TO 12201+75 LT (SOLID)
STA 12194+75 TO 12201+50 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 6000+00 TO 6005+00 CL (SOLID)
STA 12194+75 TO 12201+50 RT (SOLID)
STA 12194+75 TO 12201+75 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12194+75 TO 12195+20 LT (SOLID)
STA 12194+75 TO 12195+24 LT (SOLID)

PAVEMENT MARKING MASK
STA 12194+75 TO 12195+20 LT
STA 12194+75 TO 12195+24 LT
STA 12194+75 TO 12201+76 LT
STA 12194+75 TO 12202+00 RT

DIVIDED ROADWAY CROSSOVER
I-91 PHASE 2B CROSSOVER-N

VT STATE PLANE GRID

MATCH LINE STA 22194+75

MATCH LINE STA 12205+50

MATCH LINE STA 22206+50

PI 6004+37.61

I-91 PHASE 2B CROSSOVER-N
CURVE (6004+38)
DELTA = 12°07'43"
D = 05°24'19"
R = 1060.00'
T = 112.61'
L = 224.38'
E = 5.97'

PC 6003+25.00

PHASE 2B CROSSOVER-N

STONE FILL TYPE II

SWL

SYL

12205+00 1:16 TAPER

NOTE: TRAFFIC CONTROL ON CHARLESTOWN RD
NOT SHOWN, SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 6	SHEET 226 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 6005+00 TO 6008+99 RT
STA 6005+00 LT TO 22217+25 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 6005+00 TO 6015+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 6005+00 TO 6010+50 CL (SOLID)
STA 22213+18 TO 22217+25 RT (SOLID)
STA 22222+00 TO 22217+25 CL (BROKEN)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 6010+50 CL TO 6015+25 CL
STA 22213+18 RT TO 22217+25 RT

PAVEMENT MARKING MASK
STA 22213+00 TO 22217+25 CL
STA 22213+18 TO 22217+25 RT
STA 22213+18 TO 22217+25 RT

VT STATE PLANE GRID
N

MATCH LINE STA 12206+50

MATCH LINE STA 12216+25

MATCH LINE STA 22206+50

MATCH LINE STA 22217+25

PC 6006+90.30

PT 6005+49.38

N08°06'05"E

TEMPORARY 58' X 18"
CPEP CULVERT

TEMPORARY 42' X 12"
CMP CULVERT EXTENSION

PT 6011+77.49

PC 6012+76.94

TEMPORARY 14' X 12"
CMP CULVERT EXTENSION

I-91 PHASE 2B CROSSOVER-N

SWL

SYL

N14°59'33"W

PI 6009+06.83

PI 6014+09.76

I-91 PHASE 2B CROSSOVER-N
CURVE (6009+07)
DELTA = 23°05'27"
D = 05°24'19"
R = 1060.00'
T = 216.53'
L = 427.19'
E = 21.89'

I-91 PHASE 2B CROSSOVER-N
CURVE (6014+10)
DELTA = 03°02'36"
D = 01°08'45"
R = 5000.00'
T = 132.82'
L = 265.58'
E = 1.76'

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 7	SHEET 227 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22217+25 TO 22217+79 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22217+25 TO 22224+00 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22217+25 TO 22222+00 RT (SOLID)
STA 22222+00 TO 22224+00 CL (BROKEN)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 22217+25 TO 22222+00 CL
STA 22217+25 RT TO 22222+00 CL

PAVEMENT MARKING MASK
STA 22217+25 TO 22222+00 RT
STA 22217+25 TO 22219+00 RT
STA 22217+25 TO 22224+00 CL

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

STA 12229+00 RT
ARROW BOARD

STA 12227+00 RT/LT
WORK ZONE
SPEED LIMIT 55

STA 12232+00 RT
55 MPH

STA 12232+00 LT
55 MPH

STA 12237+00 RT/LT
LEFT LANE CLOSED 1500 FEET

STA 12242+00 RT/LT
FINE DOUBLED FOR SPEEDING IN WORK ZONE

STA 12247+00 RT/LT
LEFT LANE CLOSED ½ MILE

STA 12252+00 RT/LT
SPEED LIMIT 55

STA 12278+40 RT/LT
ROAD WORK AHEAD

STA 12222+00 LT
ROAD WORK NEXT 2 MILES

VT STATE PLANE GRID
N

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12216+25

10'
12'
2'
12217+00
12218+00
12219+00
12220+00
12221+00
12222+00
12223+00
12224+00
12225+00
12226+00
12227+00
12228+00

POE 6015+42.51

SPENCER BROOK

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

MATCH LINE STA 22217+25

SWL
SYL
BWL
4'
2'
12'
10'
22218+00
22219+00
22220+00
22221+00
22222+00
22223+00
22224+00
22225+00
22226+00
22227+00
22228+00

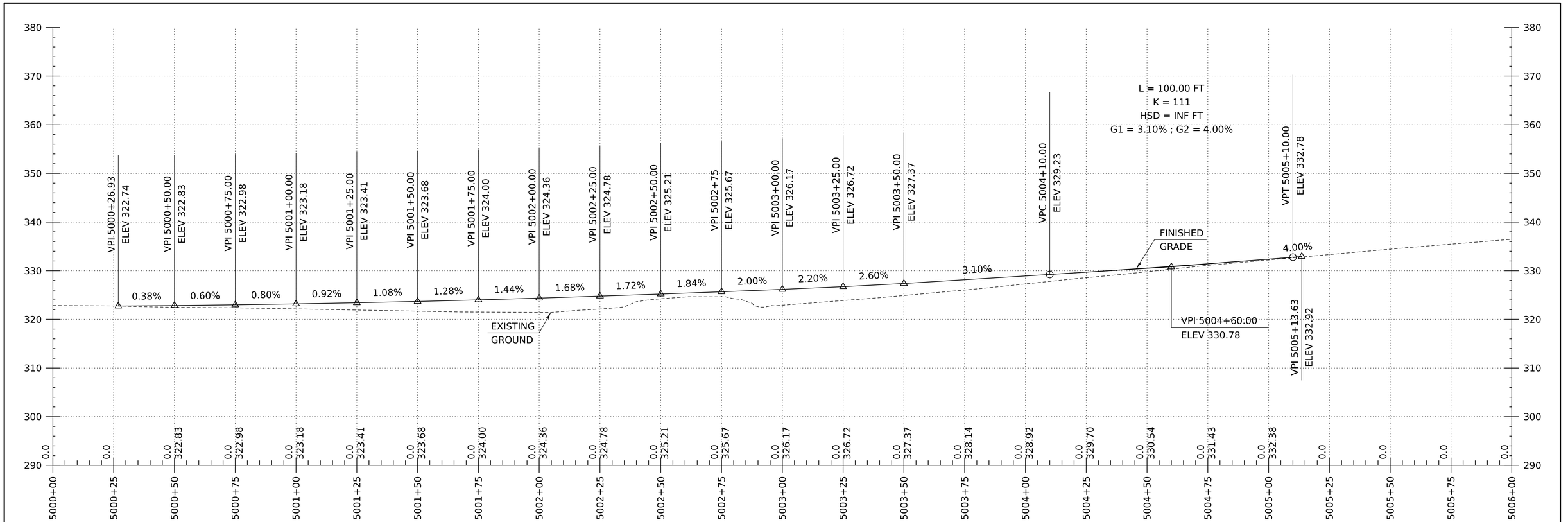
STA 22229+00 RT/LT
END ROAD WORK

STA 22234+00 RT
SPEED LIMIT 65

SCALE 1" = 40'-0"
40 0 40

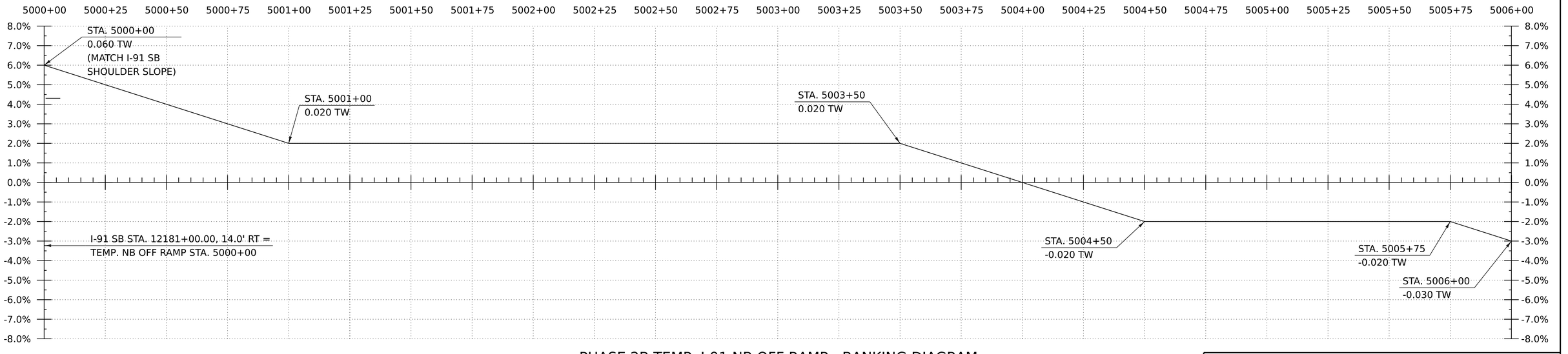
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 2B SHEET 8		SHEET 228 OF 922	



PHASE 2B TEMP. I-91 NB OFF RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



PHASE 2B TEMP. I-91 NB OFF RAMP - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_NB_Xover_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
PHASE 2B TEMP. I-91 NB OFF RAMP PROFILE 1	SHEET 229 OF 922

VPI 6000+50.00
ELEV 365.48

-0.38%

VPC 6000+52.50
ELEV 365.47

FINISHED
GRADE

VPI 6003+15.00
ELEV 364.47

EXISTING
GROUND

L = 525.00 FT
K = 114
SSD = 495 FT
G1 = -0.38% ; G2 = -5.00%

-5.00%

VPT 6005+77.50
ELEV 351.34

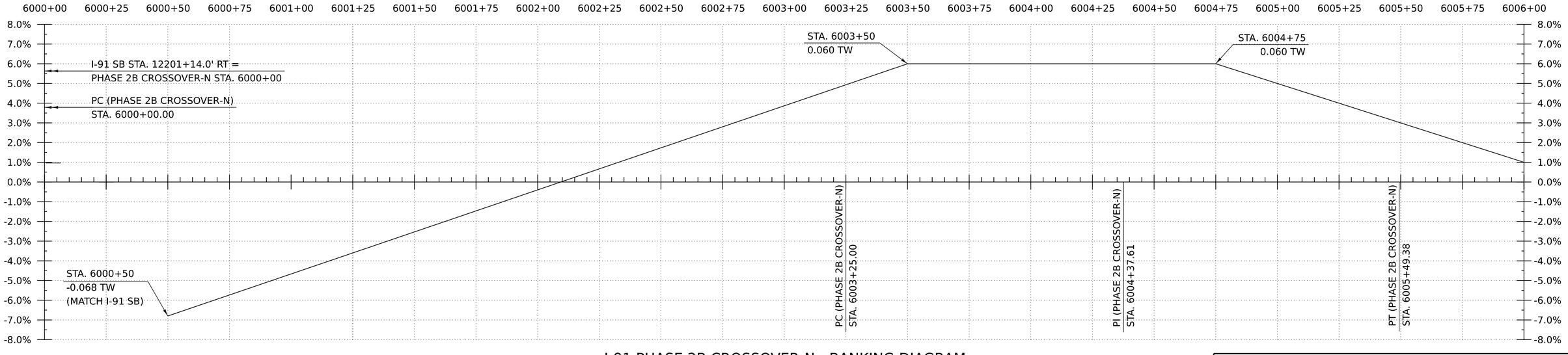
410 400 390 380 370 360 350 340 330 320

0.0 365.48 0.0 365.36 0.0 365.19 0.0 364.96 0.0 364.68 0.0 364.34 0.0 363.95 0.0 363.50 0.0 363.00 0.0 362.44 0.0 361.83 0.0 361.16 0.0 360.44 0.0 359.66 0.0 358.83 0.0 357.94 0.0 357.00 0.0 356.01 0.0 354.95 0.0 353.85 0.0 352.68 0.0 351.47 0.0 350.22

6000+00 6000+25 6000+50 6000+75 6001+00 6001+25 6001+50 6001+75 6002+00 6002+25 6002+50 6002+75 6003+00 6003+25 6003+50 6003+75 6004+00 6004+25 6004+50 6004+75 6005+00 6005+25 6005+50 6005+75 6006+00

I-91 PHASE 2B CROSSOVER-N - PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



I-91 PHASE 2B CROSSOVER-N - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

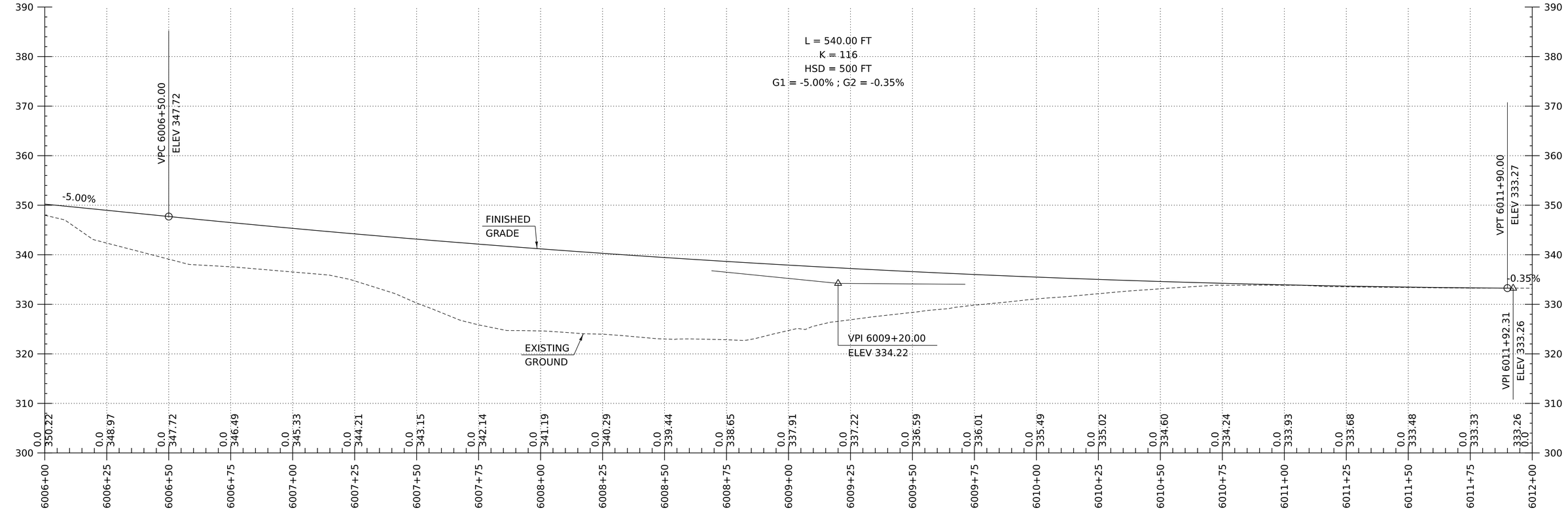
THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

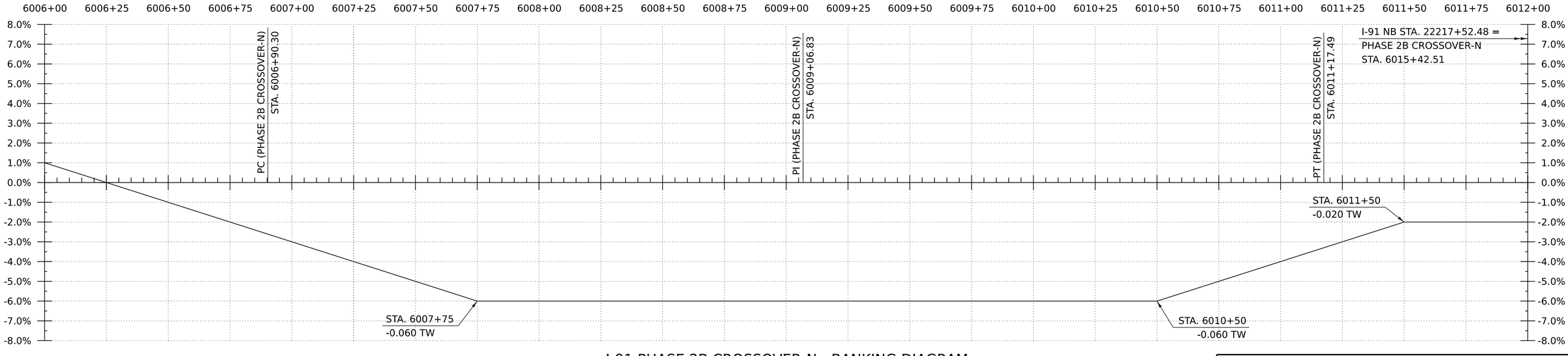
FILE NAME: z12a574pro_NB_Xover_N.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 2B CROSSOVER-N PROFILE 1

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 230 OF 922



I-91 PHASE 2B CROSSOVER-N - PROFILE

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



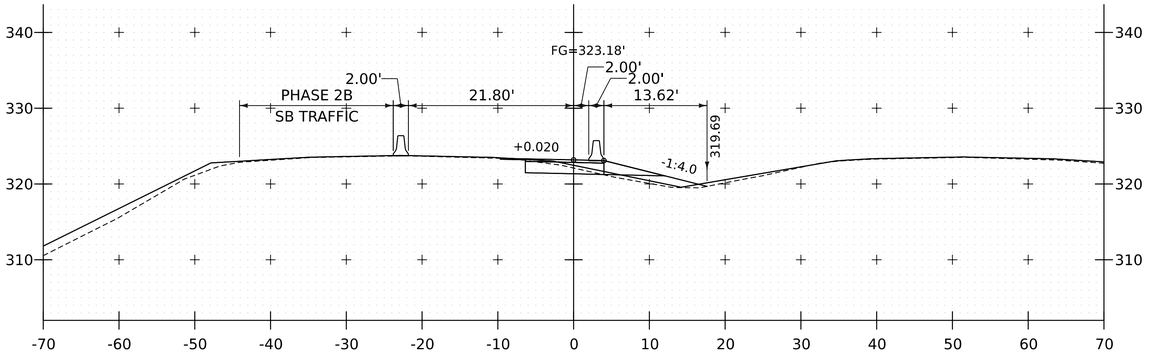
I-91 PHASE 2B CROSSOVER-N - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

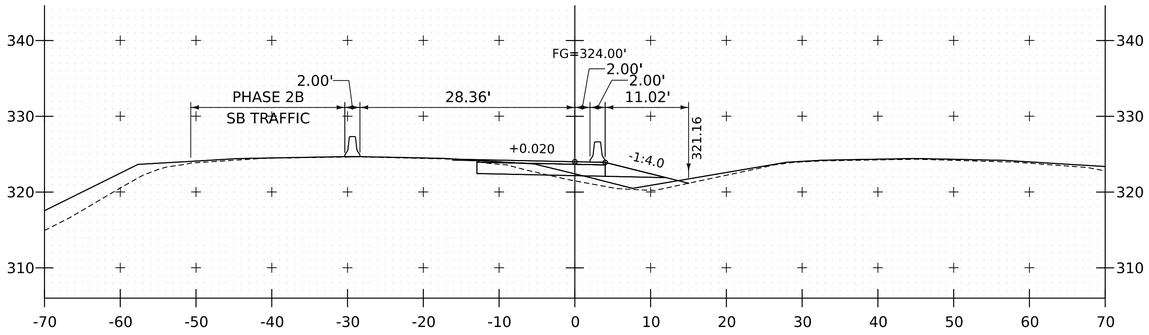
THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

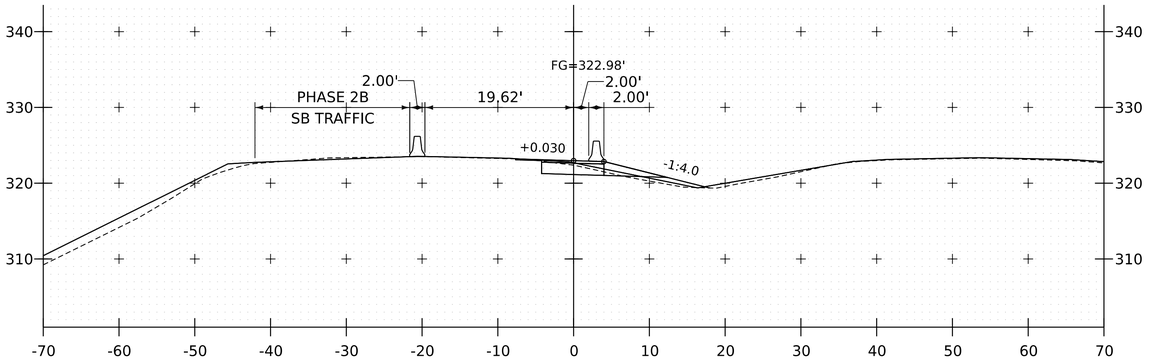
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_NB_Xover_N.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 2B CROSSOVER-N PROFILE 2	SHEET 231 OF 922



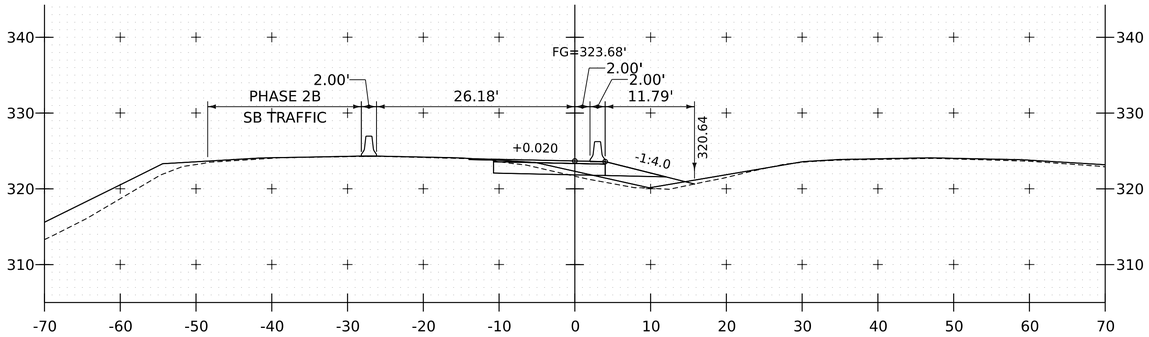
5001+00



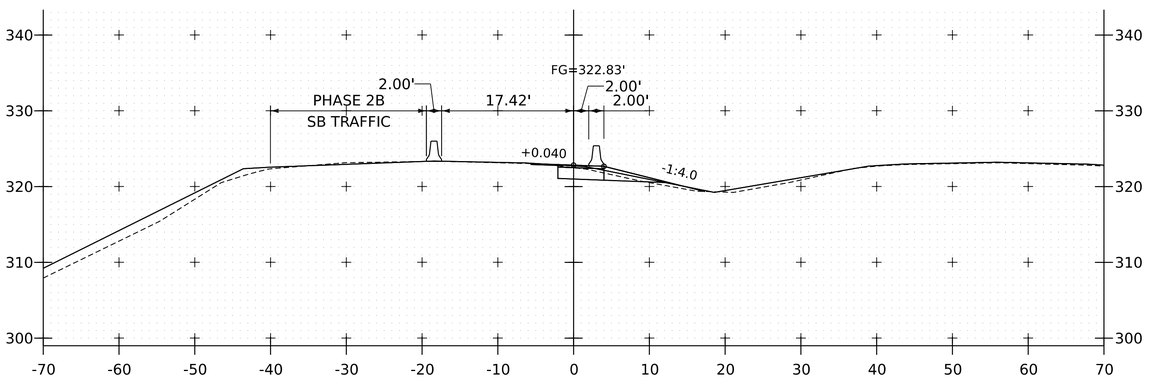
5001+75



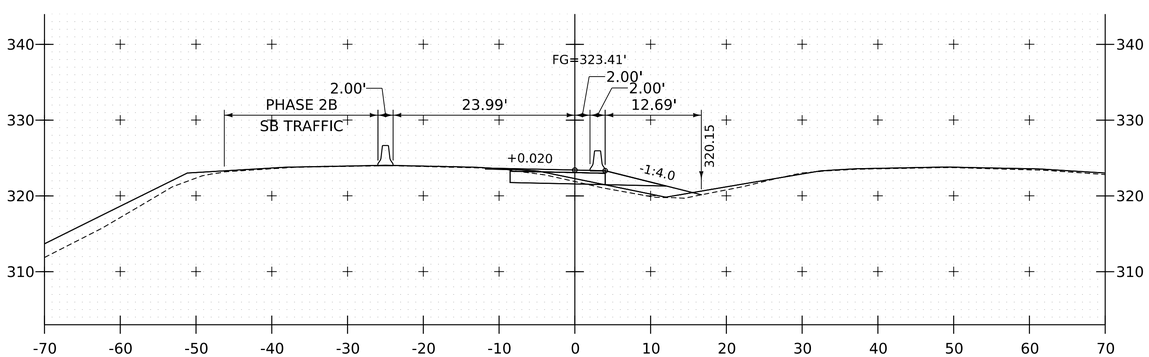
5000+75



5001+50



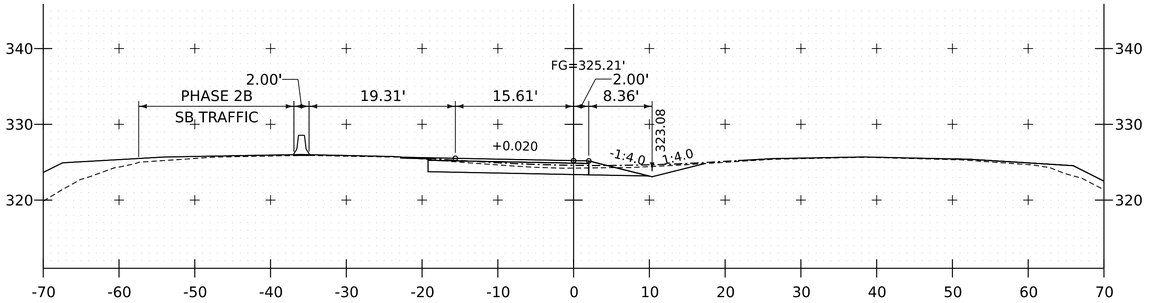
5000+50



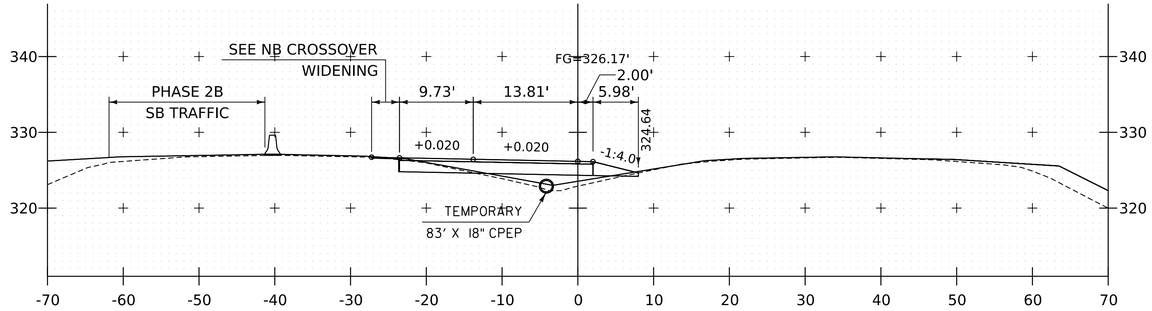
5001+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_NB_Xover_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
PHASE 2B TEMP. I-91 NB OFF RAMP CROSS SECTIONS 1	SHEET 232 OF 922

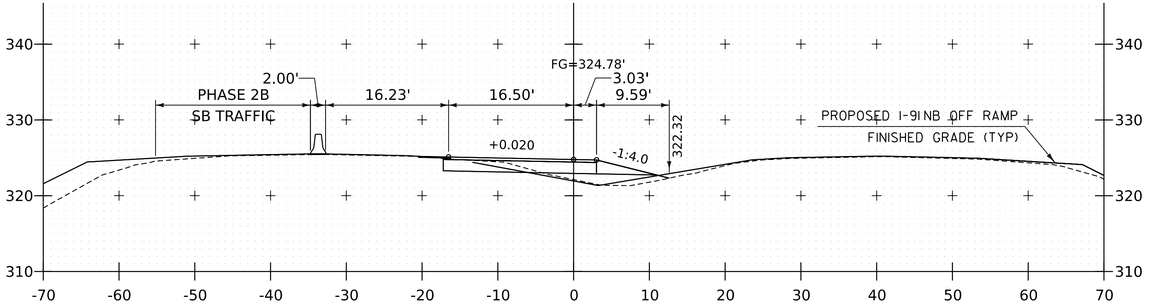
HNTB



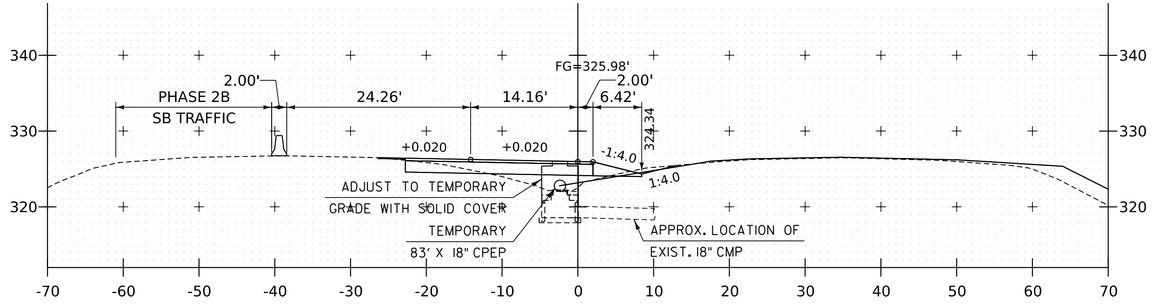
5002+50



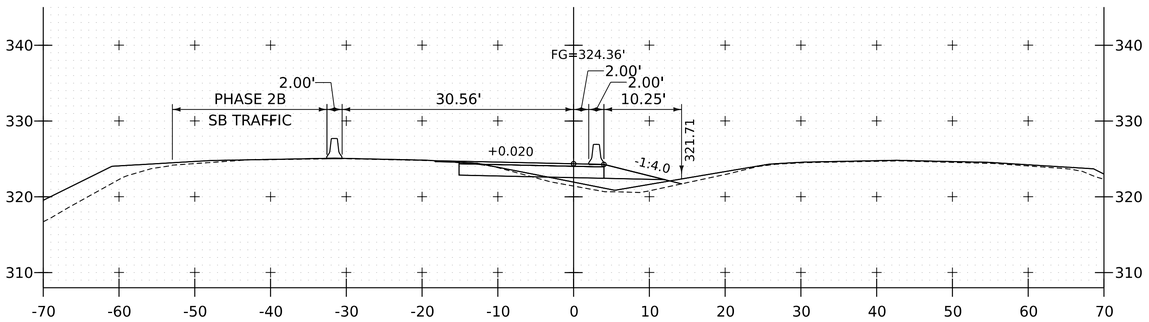
5003+00



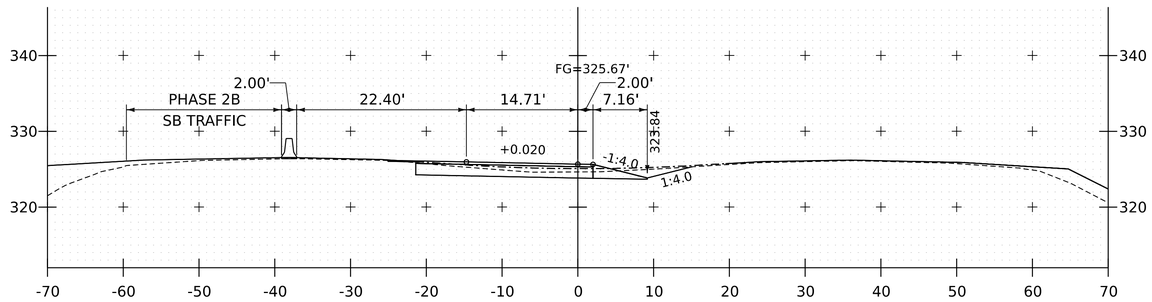
5002+25



5002+90



5002+00

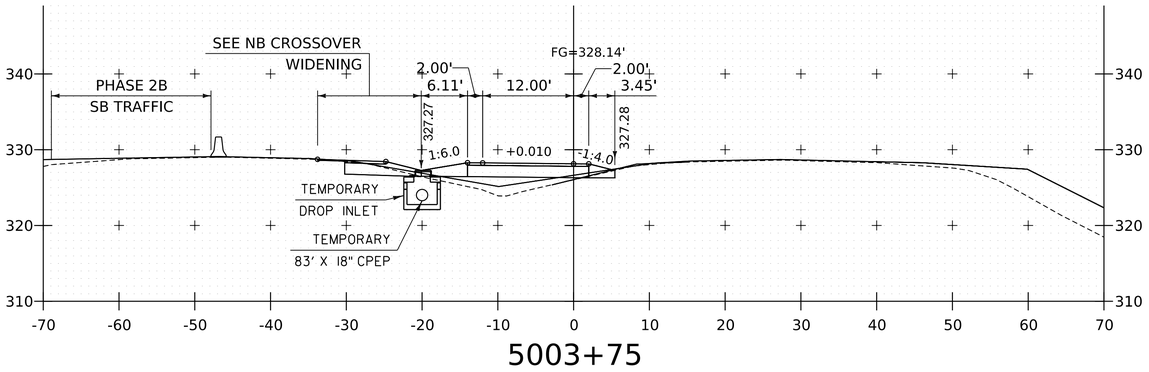


5002+75

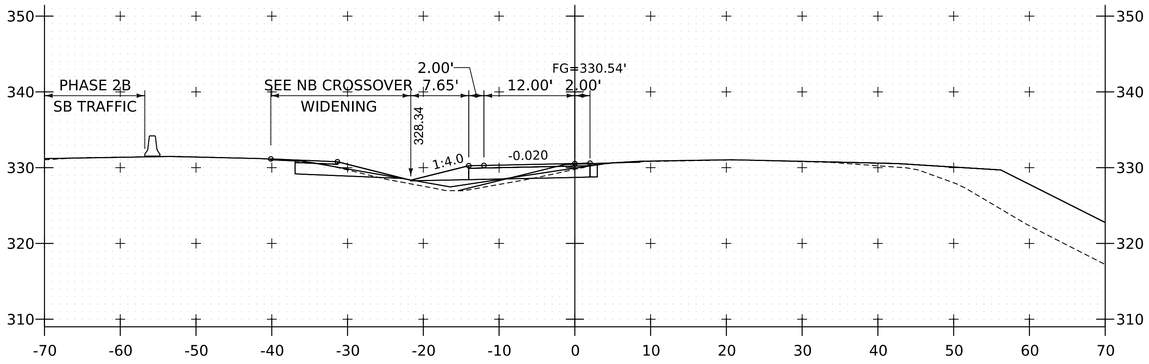
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B TEMP. I-91 NB OFF RAMP CROSS SECTIONS 2		SHEET	233 OF 922

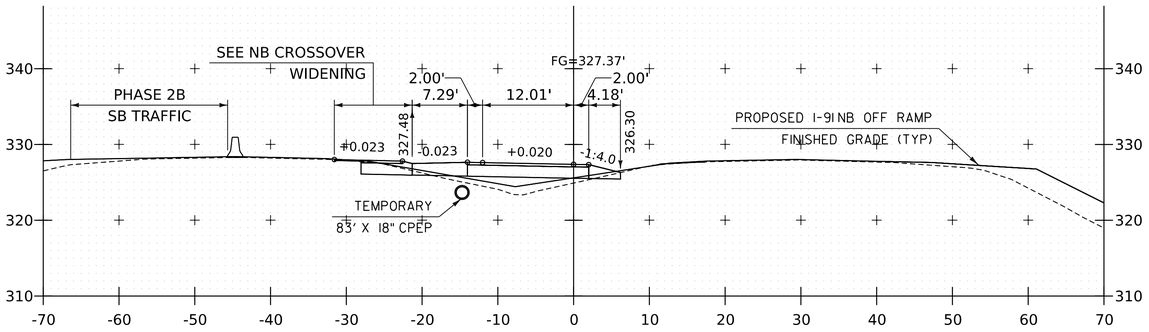
HNTB



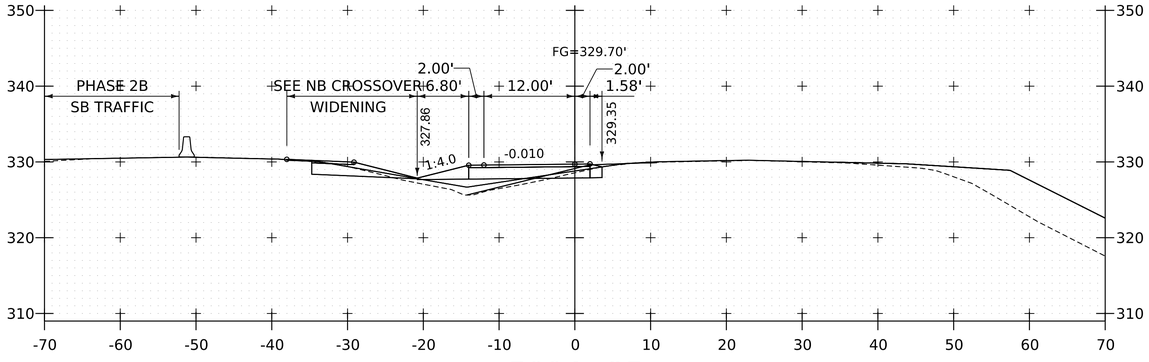
5003+75



5004+50



5003+50



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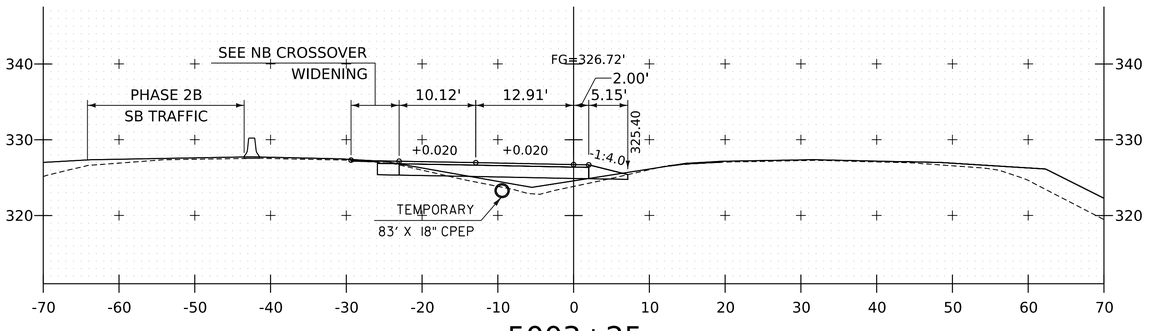
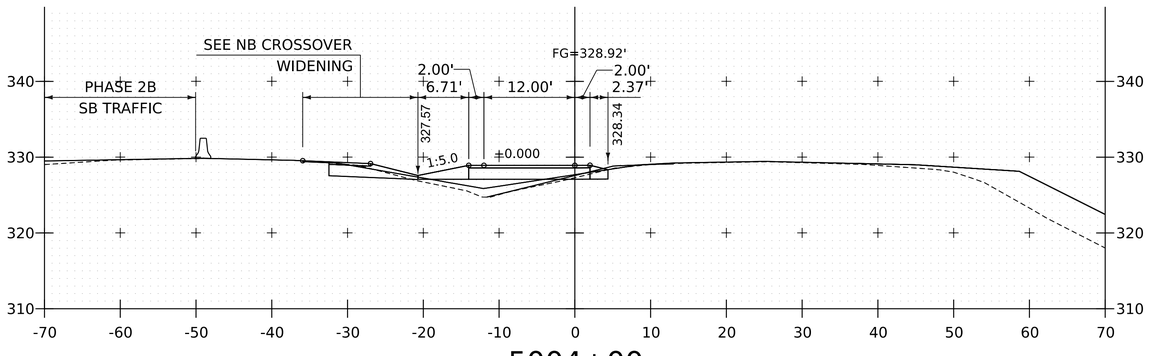


5003+25

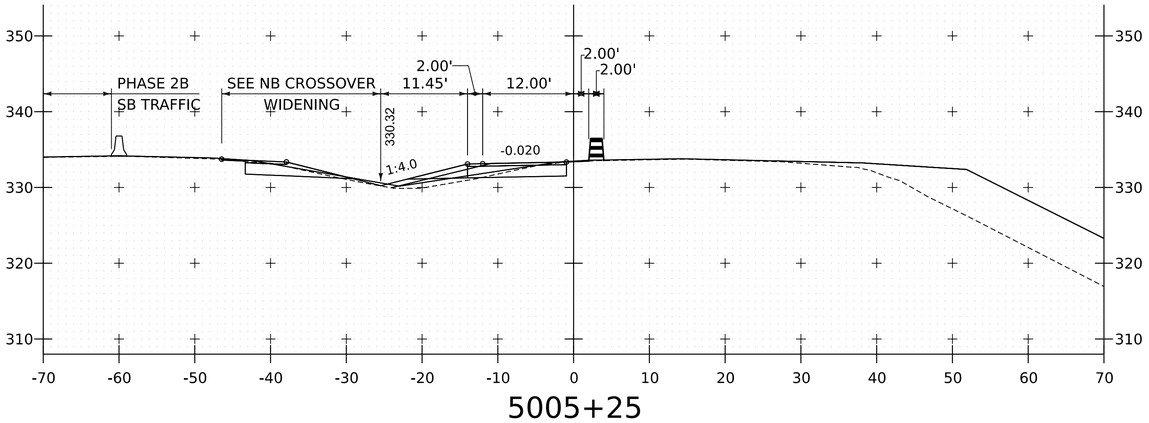


5004+00

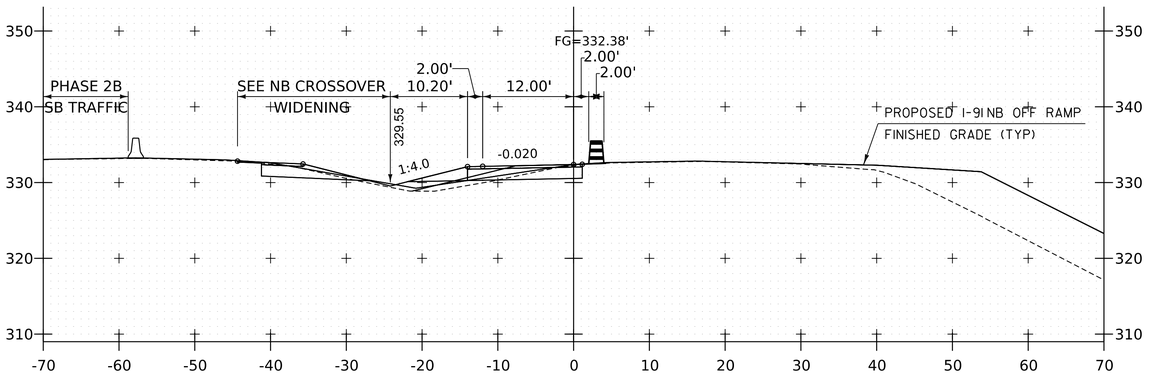
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B TEMP. I-91 NB OFF RAMP CROSS SECTIONS 3		SHEET	234 OF 922

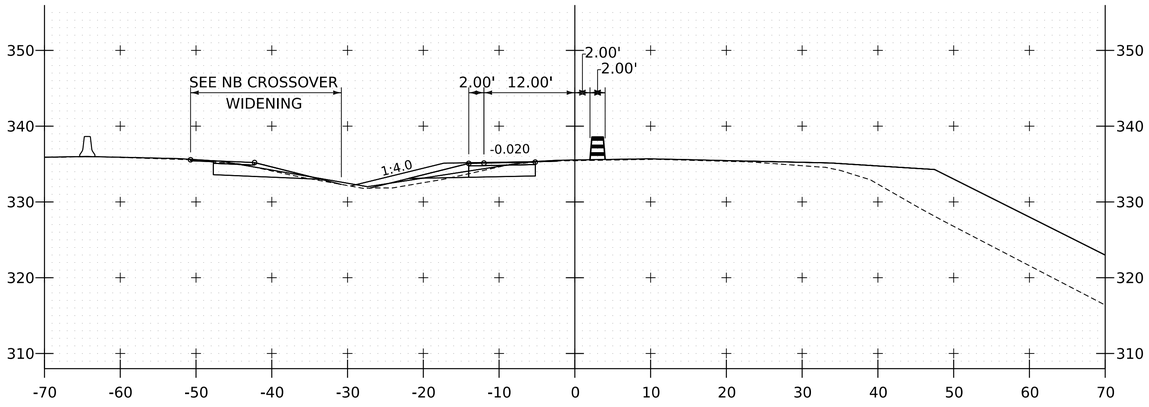
HNTB



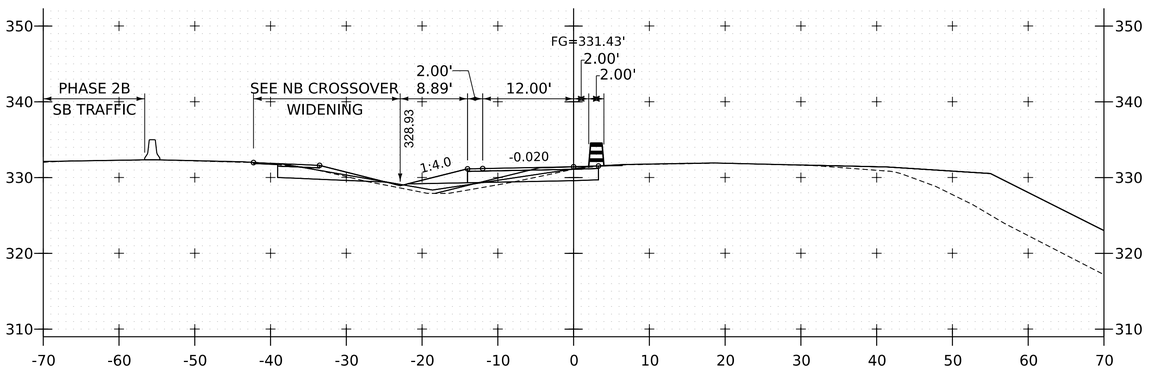
5005+25



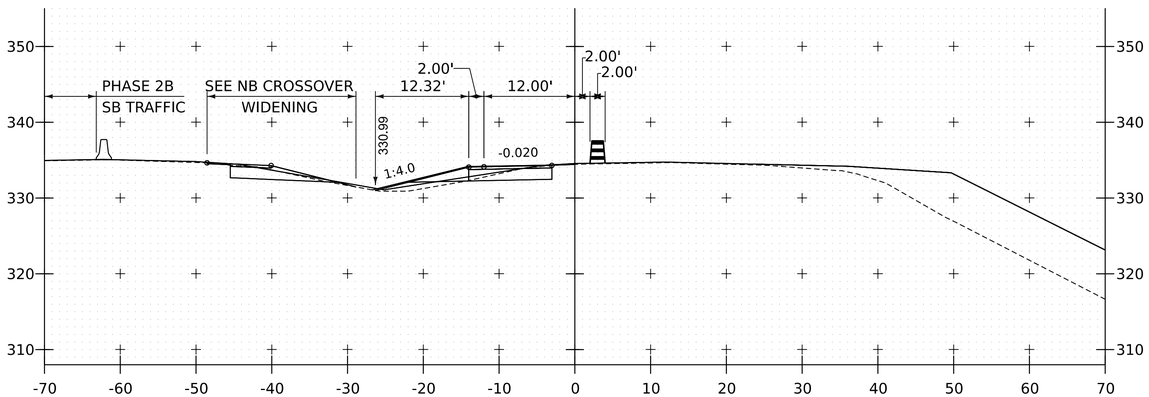
5005+00



5005+75



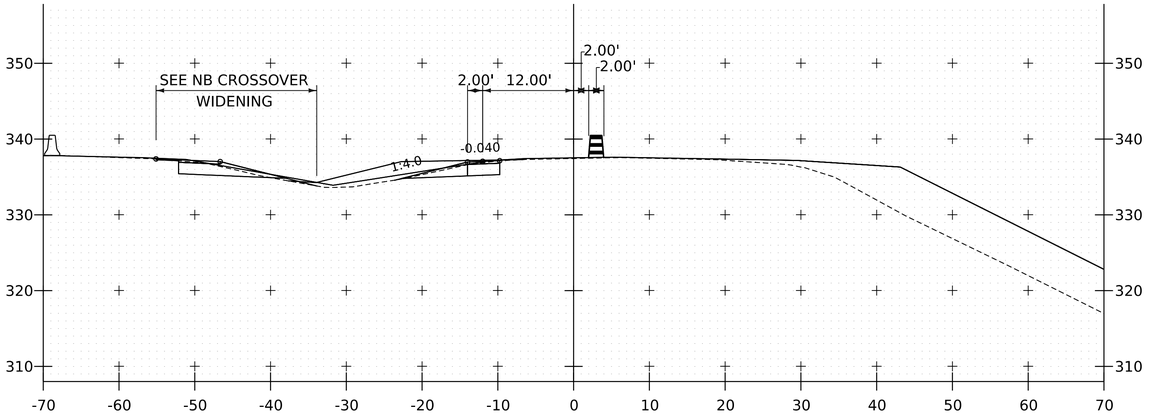
5004+75



5005+50

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_NB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B TEMP. I-91 NB OFF RAMP CROSS SECTIONS 4		SHEET 235	OF 922



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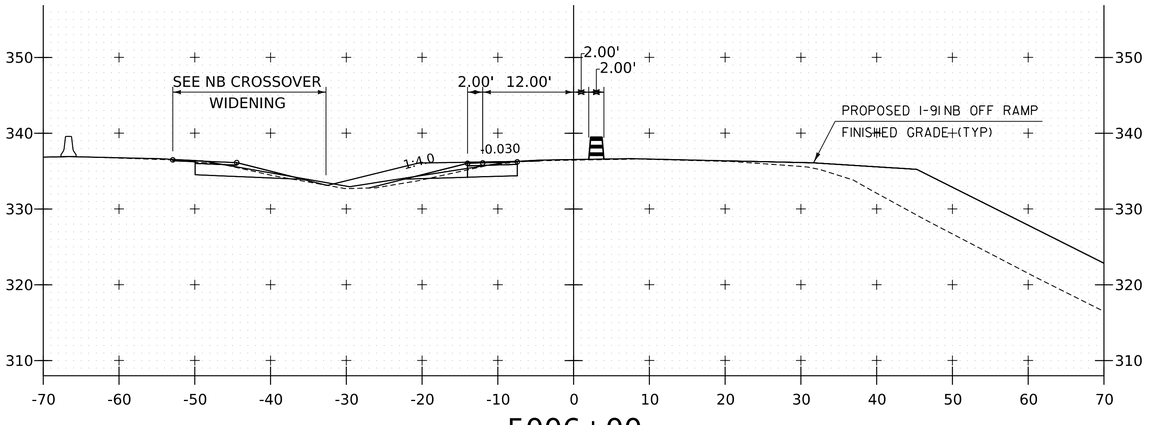
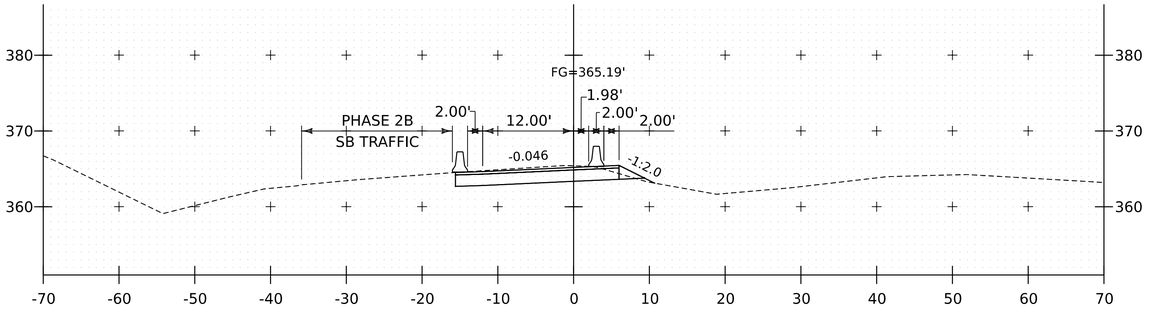


5006+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_NB_Xover_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
PHASE 2B TEMP. I-91 NB OFF RAMP CROSS SECTIONS 5	SHEET 236 OF 922

HNTB



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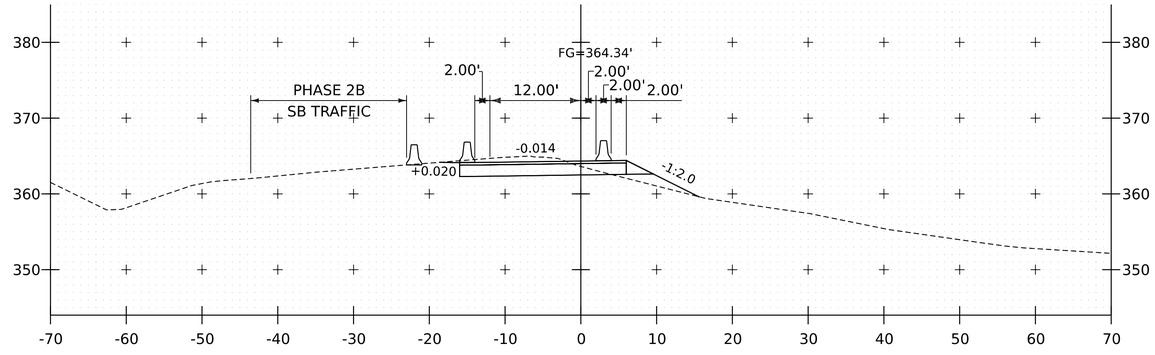

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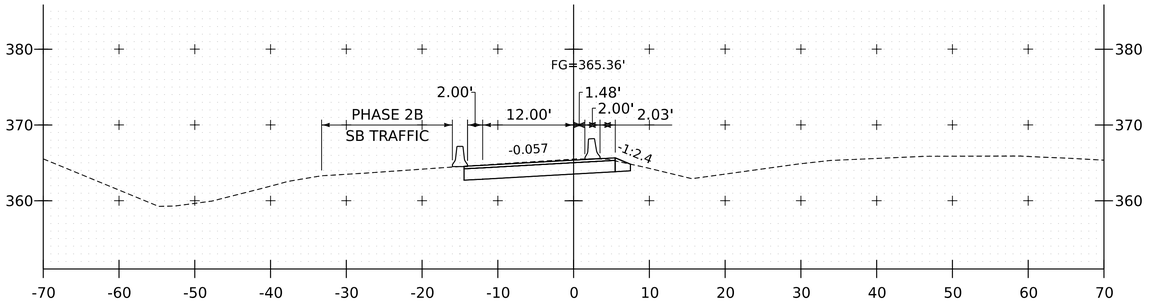

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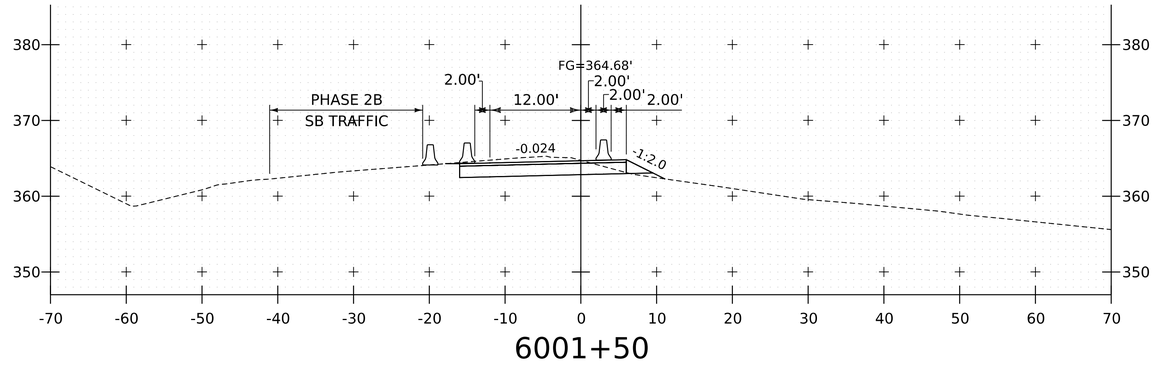

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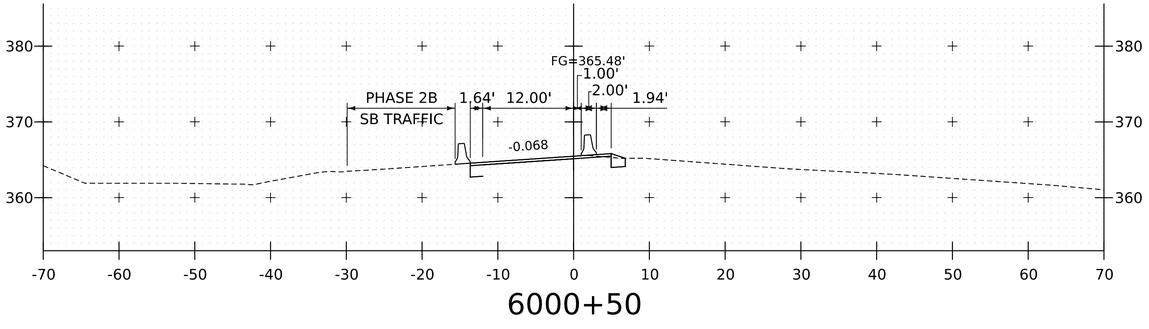

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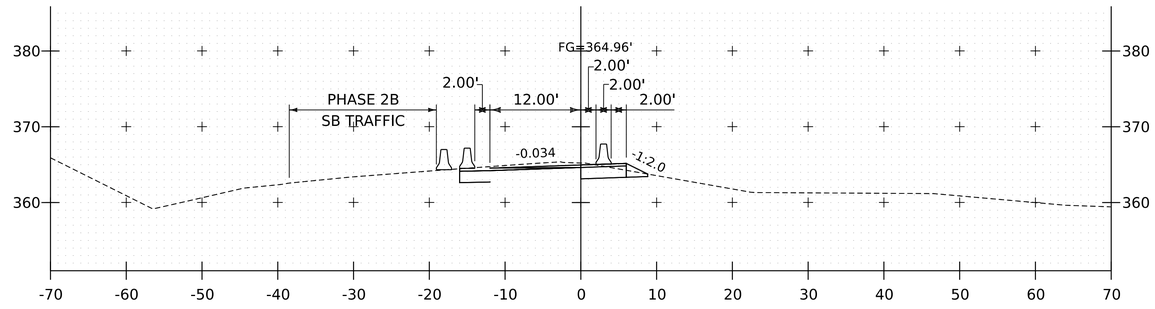
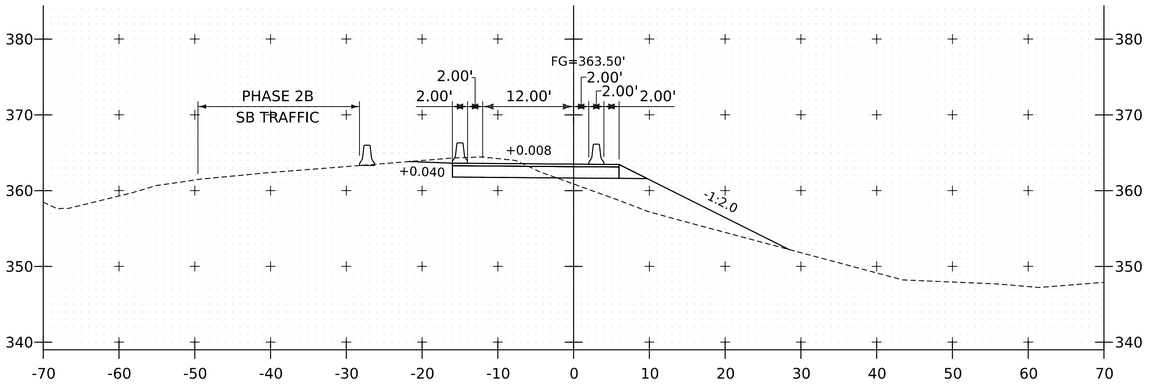


6001+25

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_NB_Xover_N.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 1

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 237 OF 922



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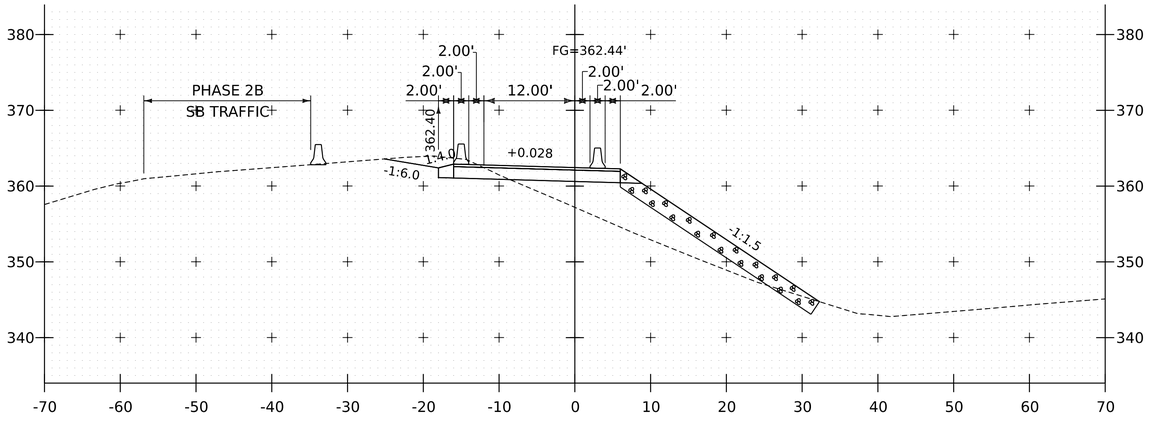

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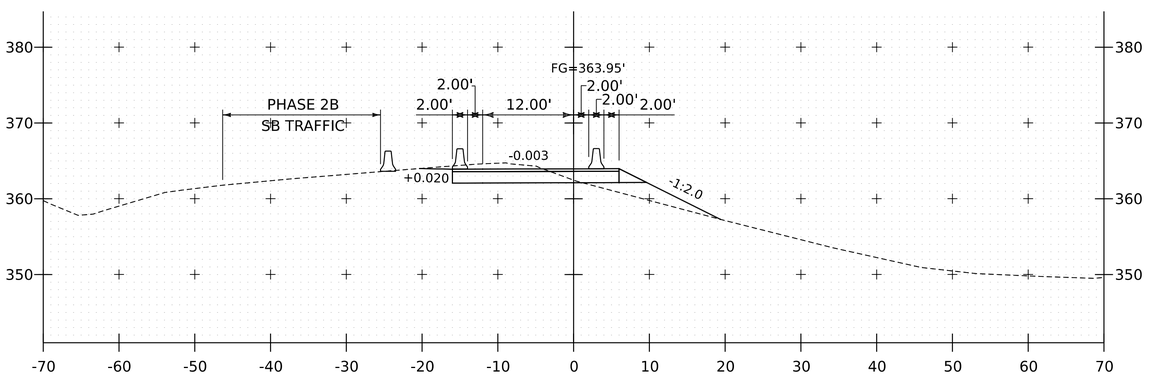

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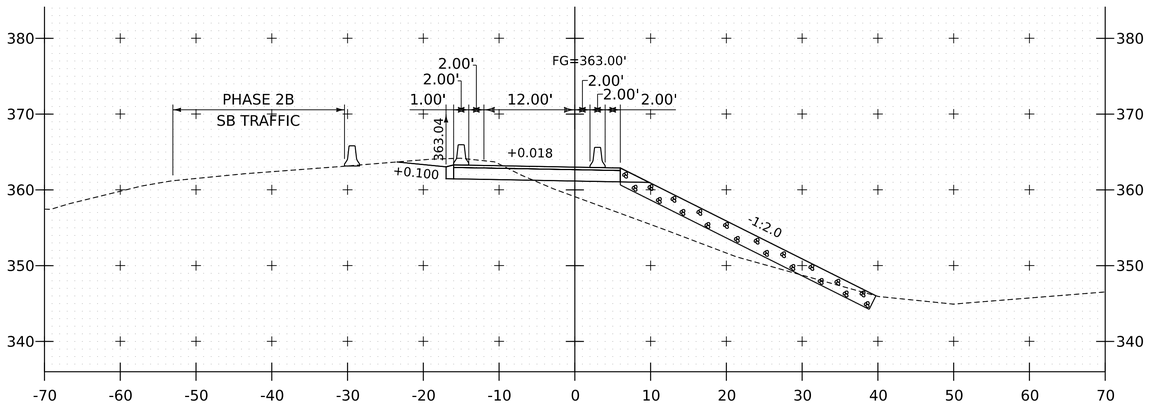

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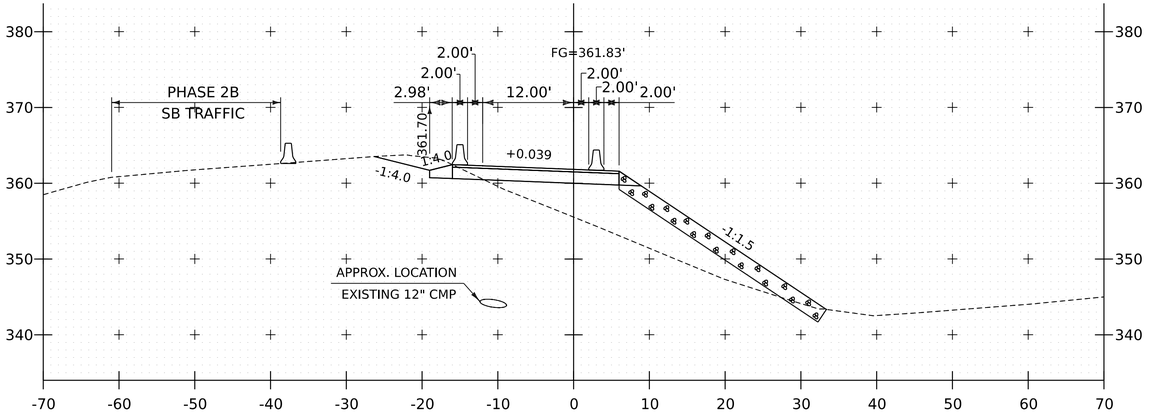
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 2		SHEET 238	OF 922



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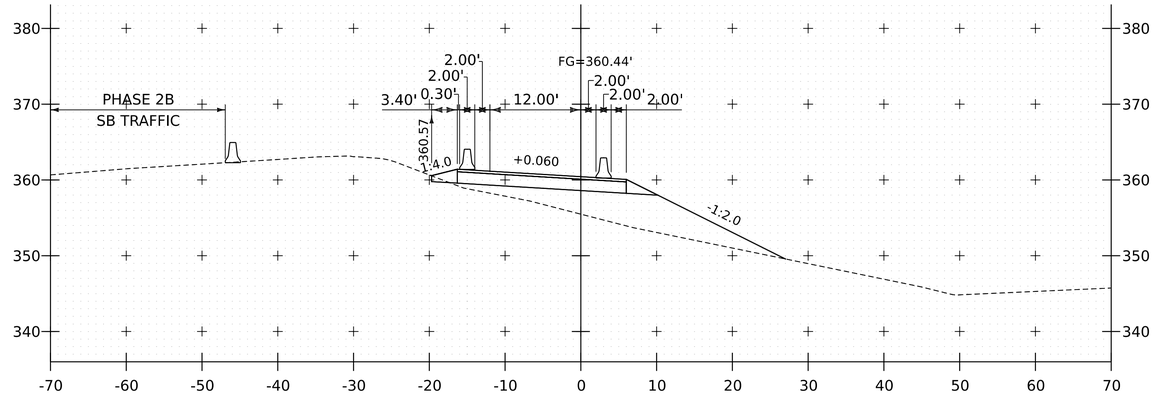

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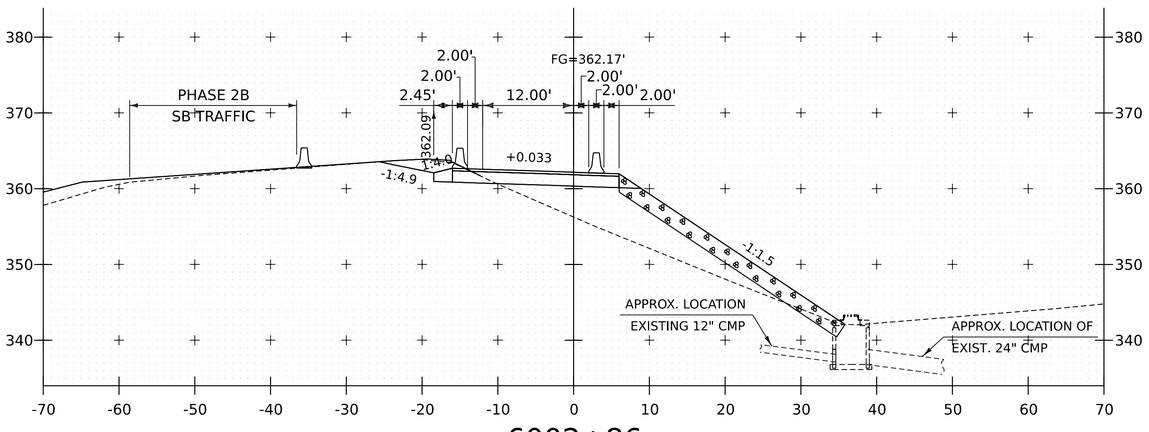

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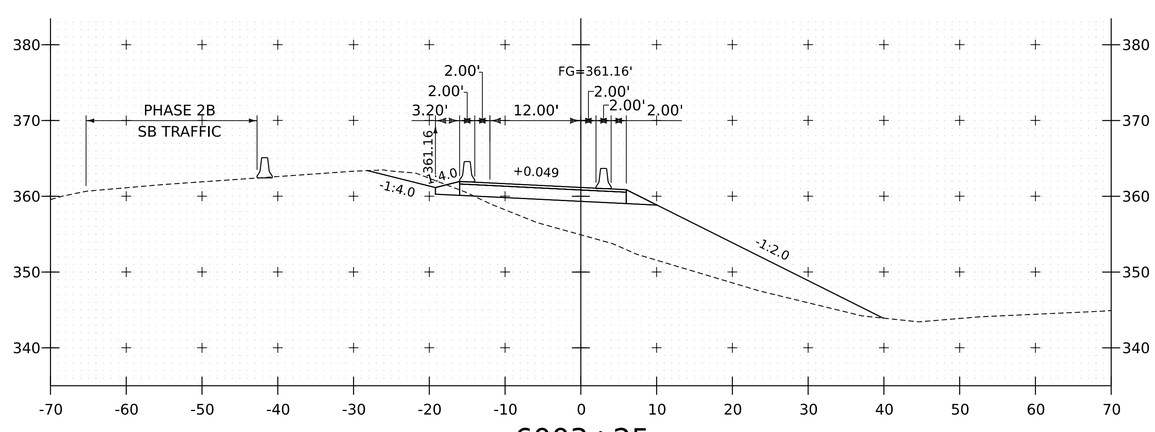
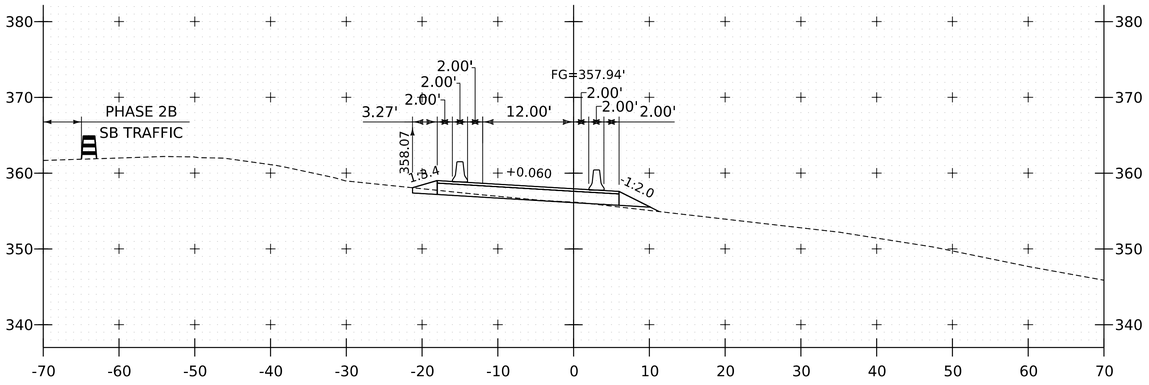


6003+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 3		SHEET	239 OF 922

HNTB



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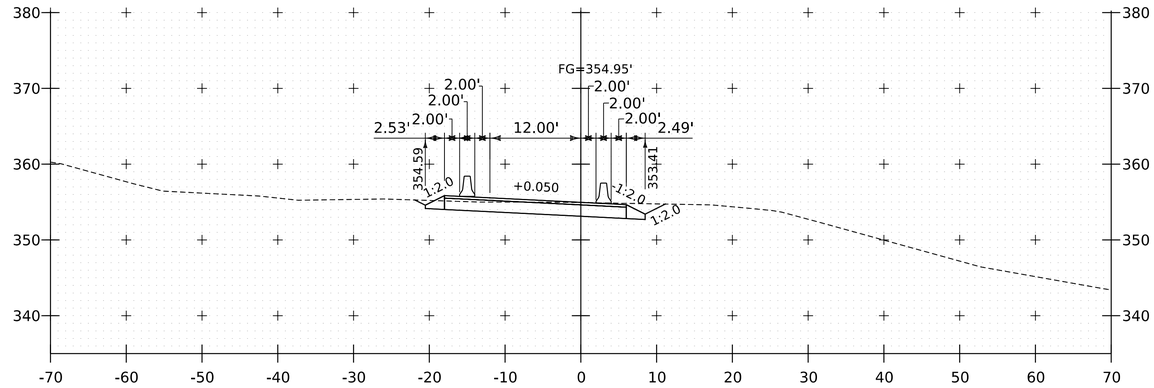

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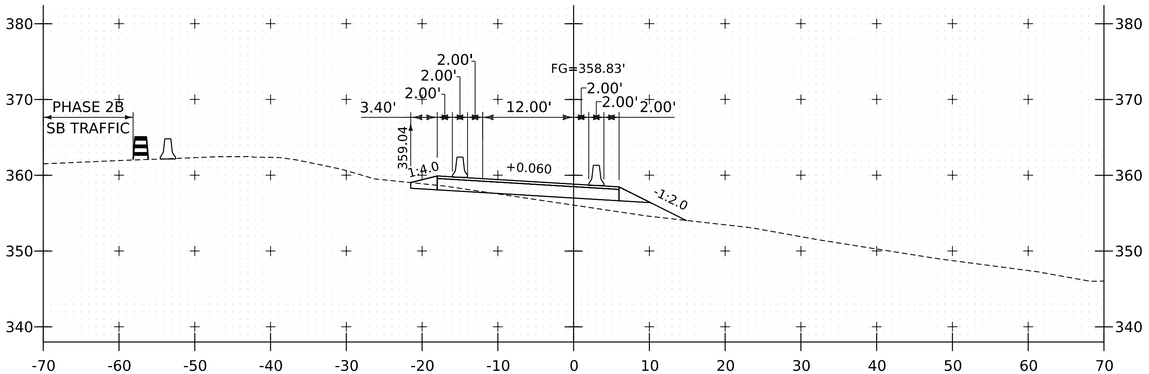

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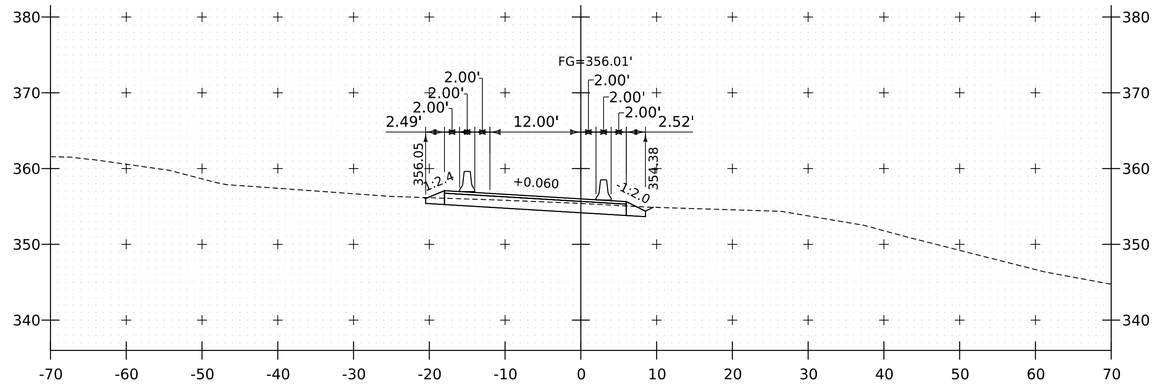

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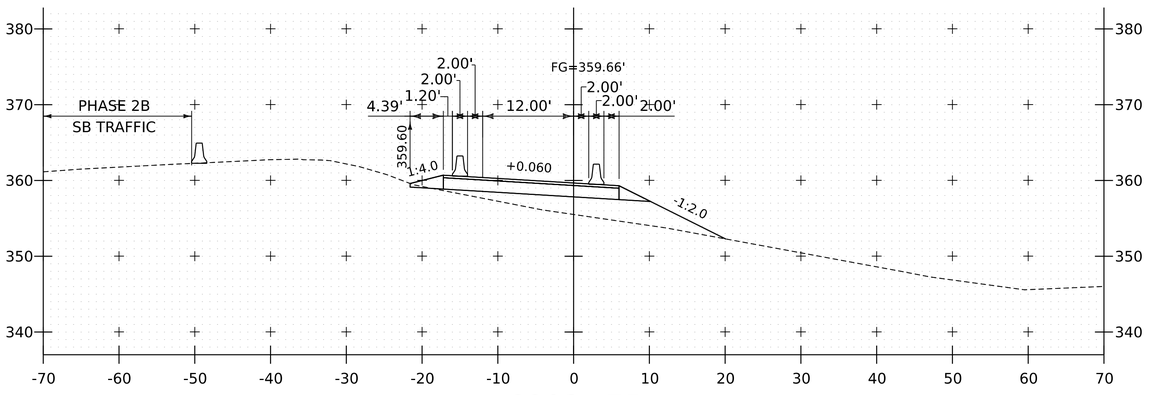

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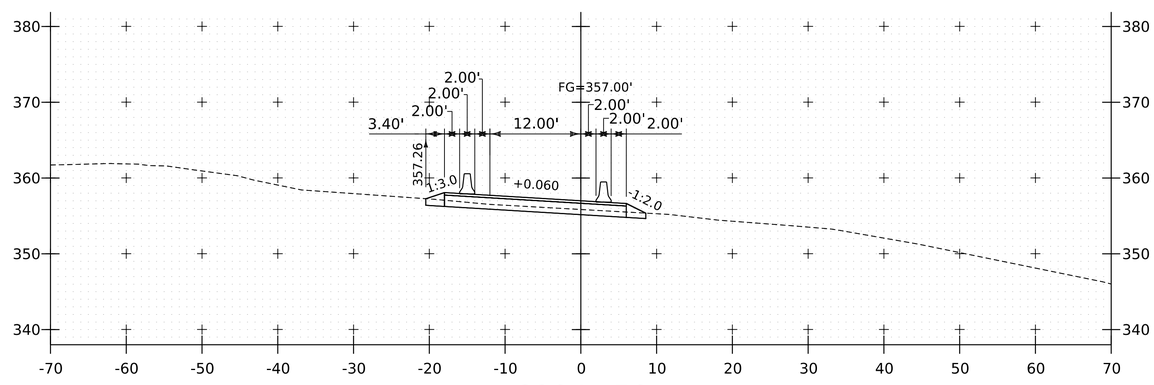

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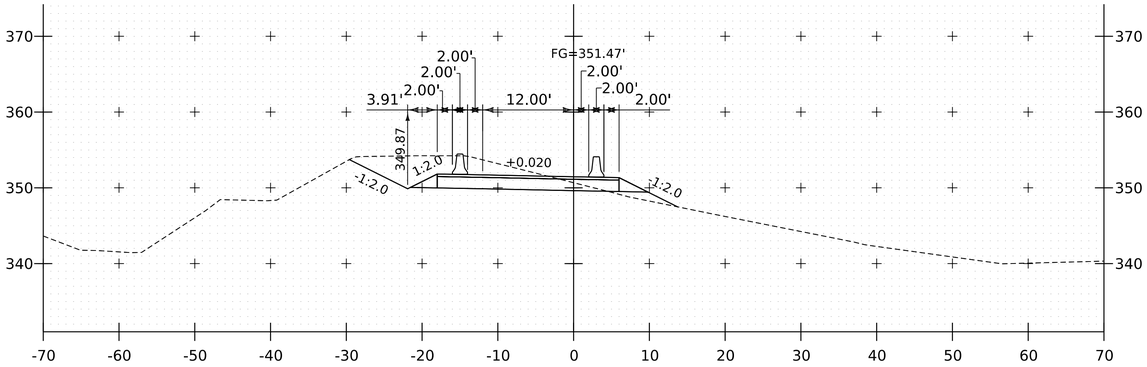
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 4		SHEET	240 OF 922

HNTB



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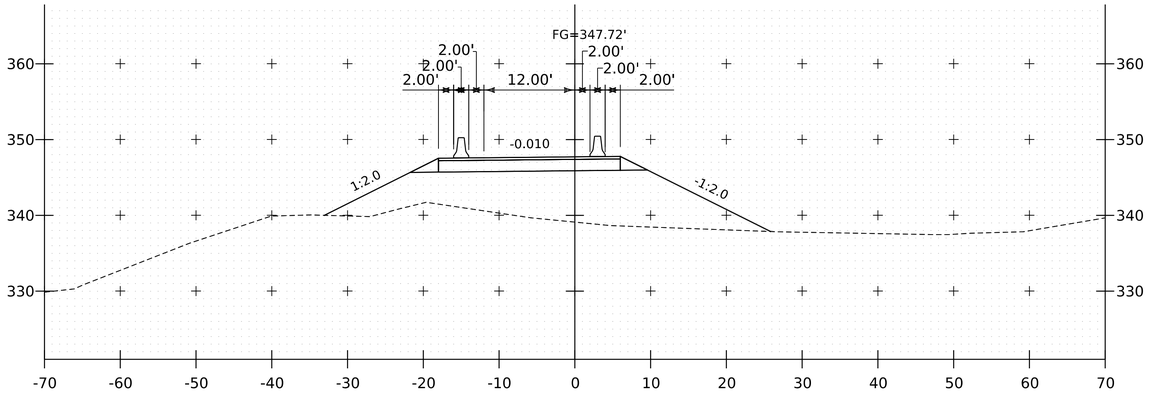

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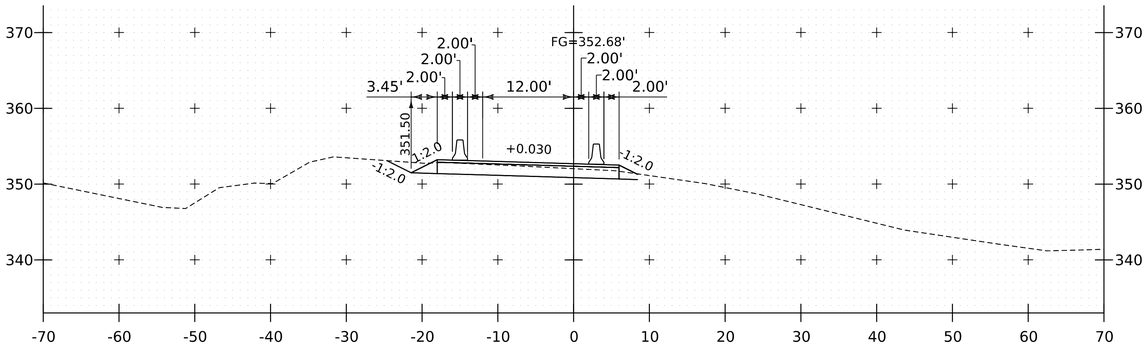

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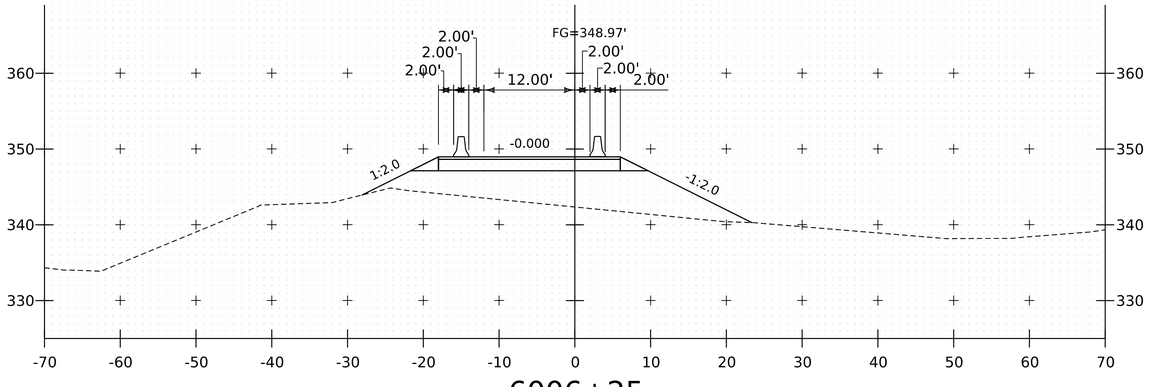

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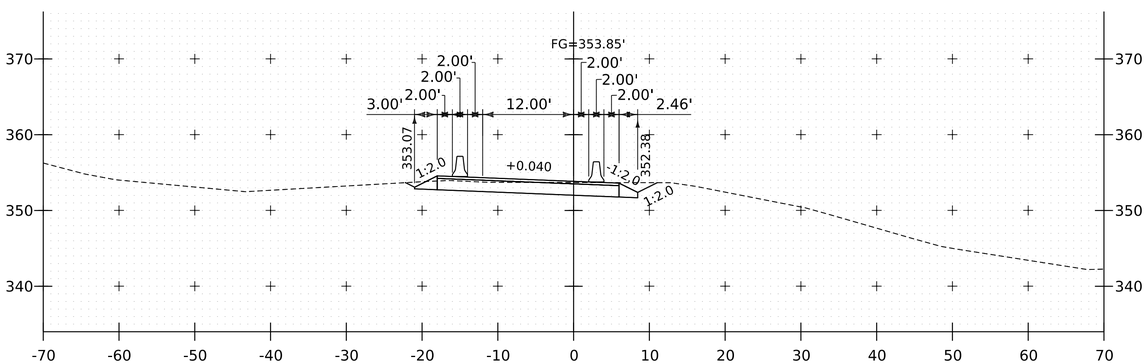

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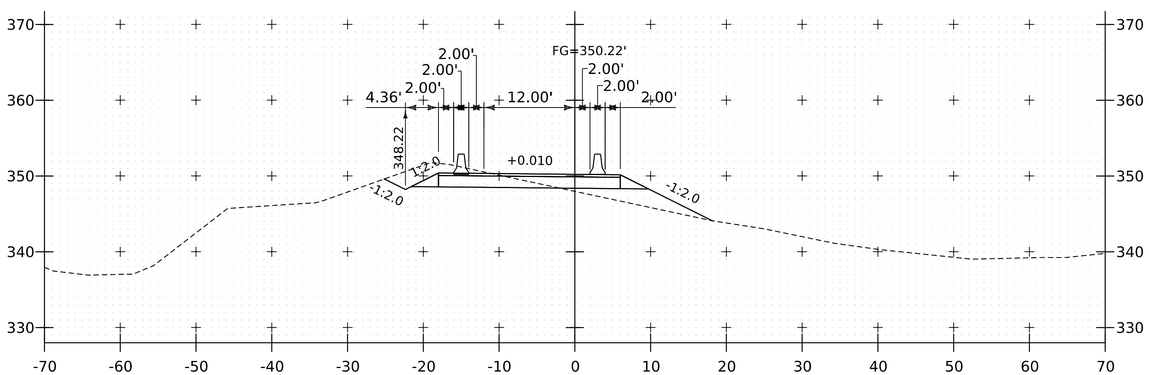
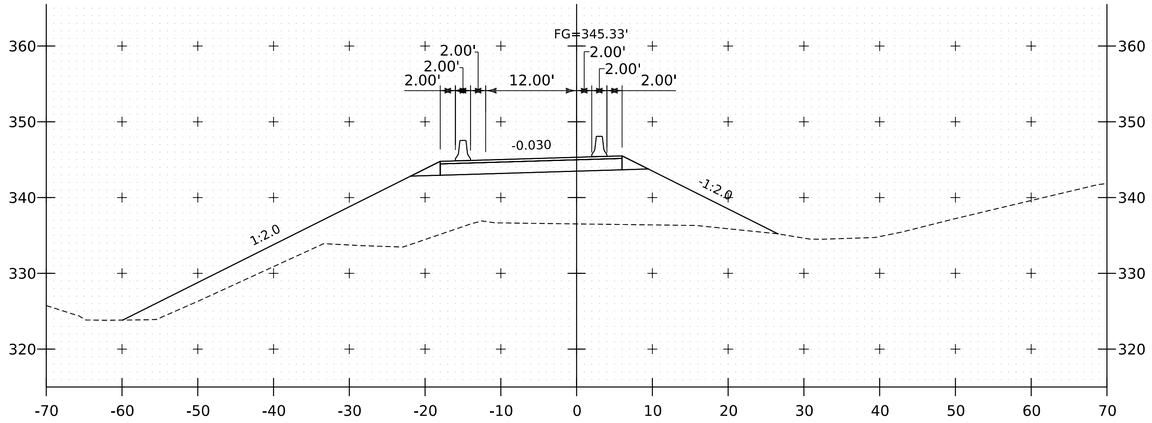


6006+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 5		SHEET	241 OF 922

HNTB



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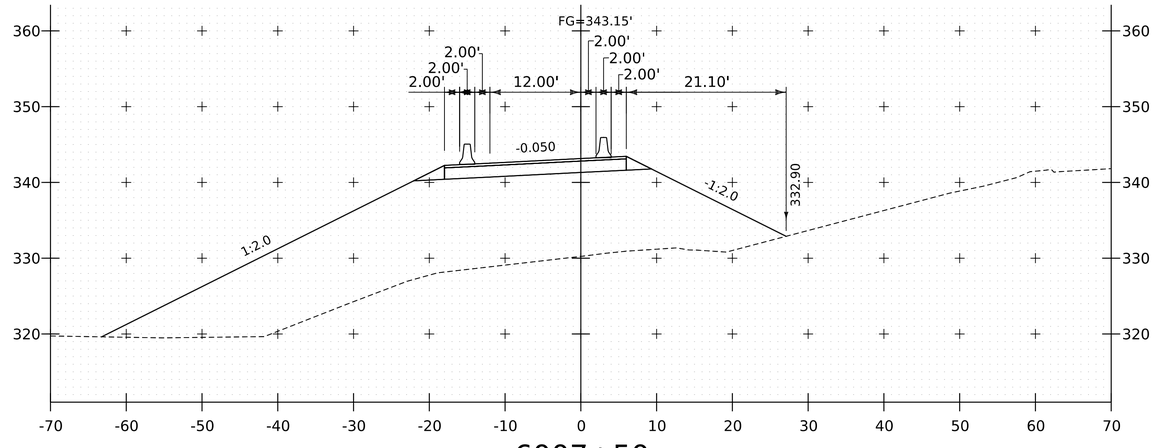

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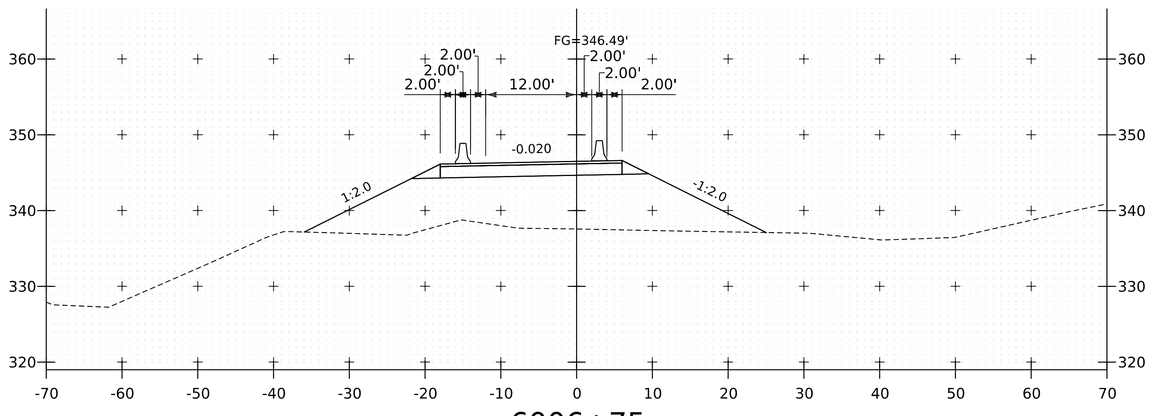

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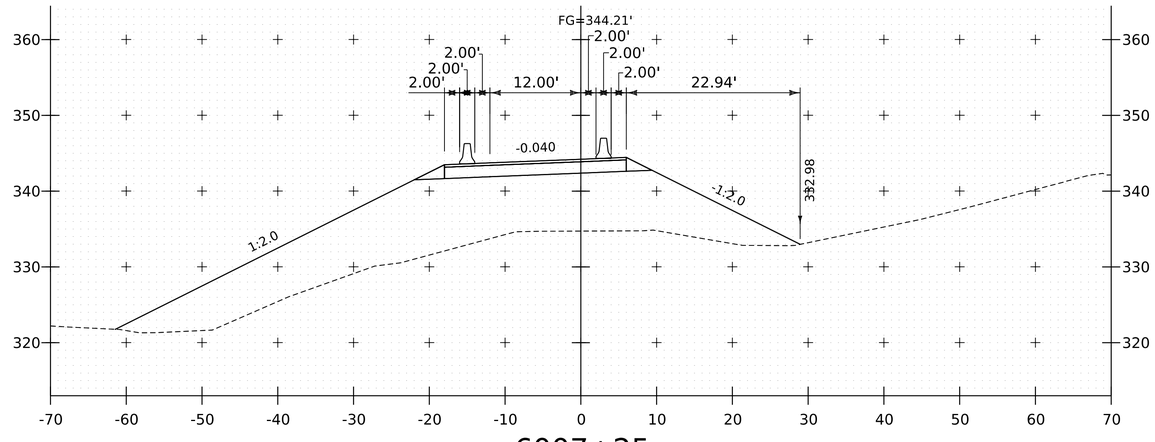

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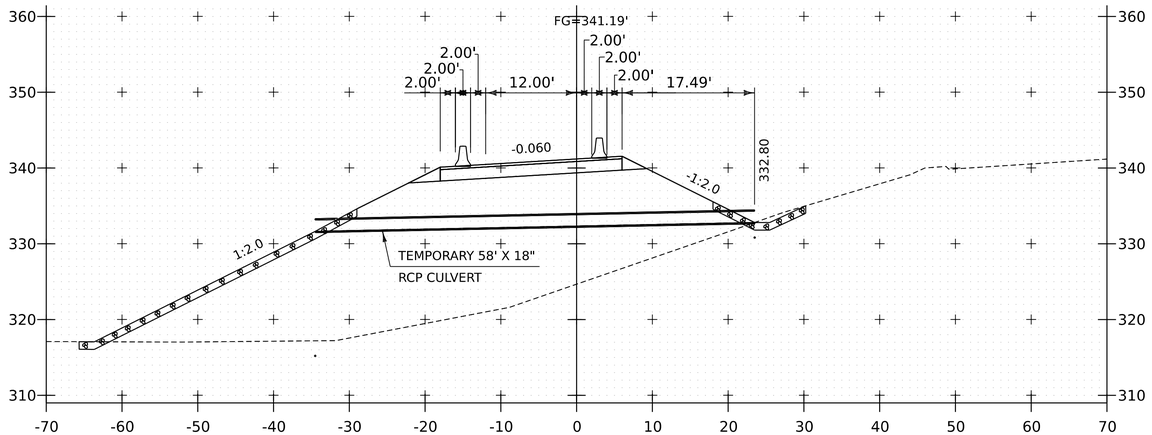
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 6		SHEET	242 OF 922

HNTB



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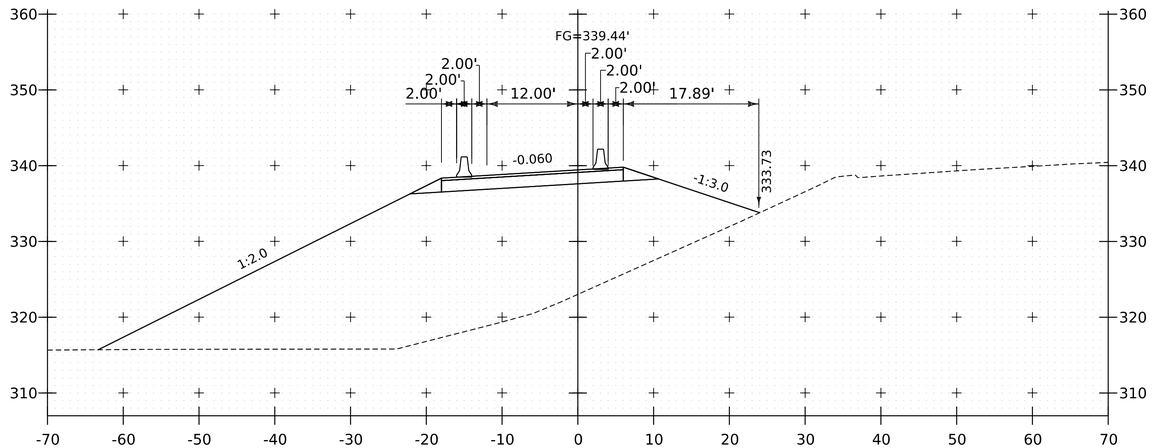

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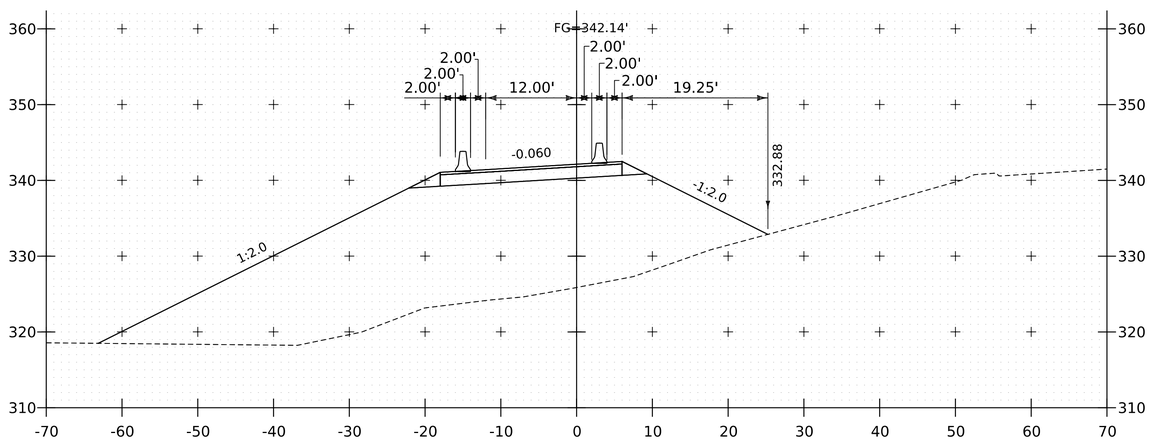

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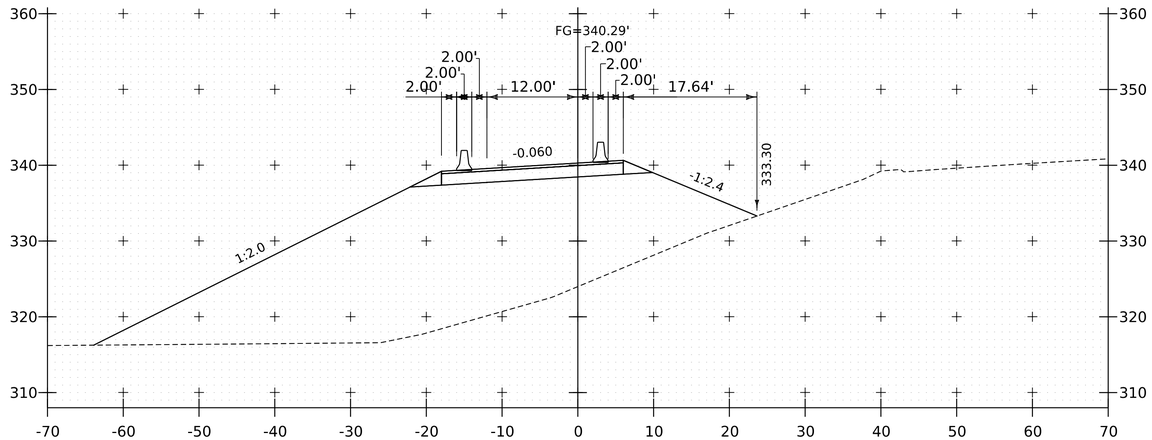

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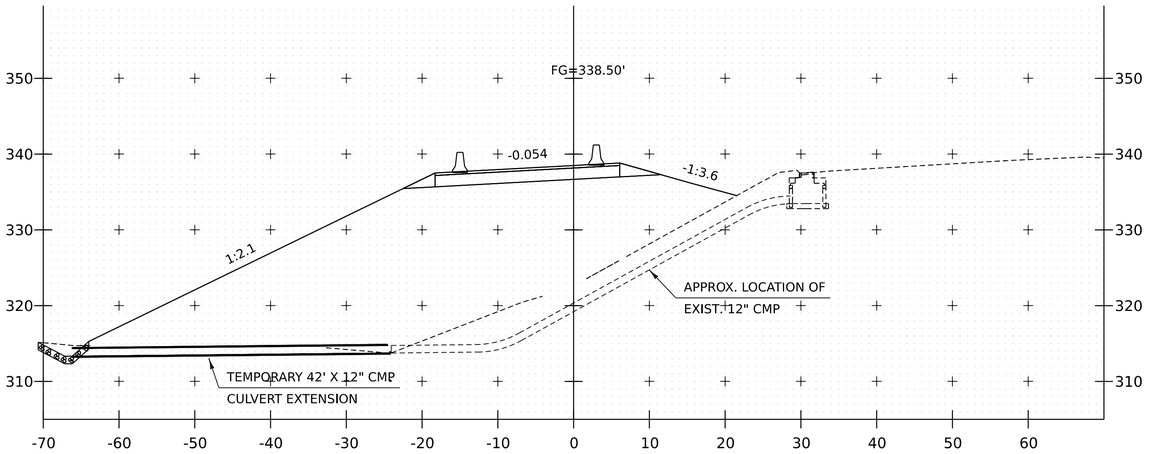
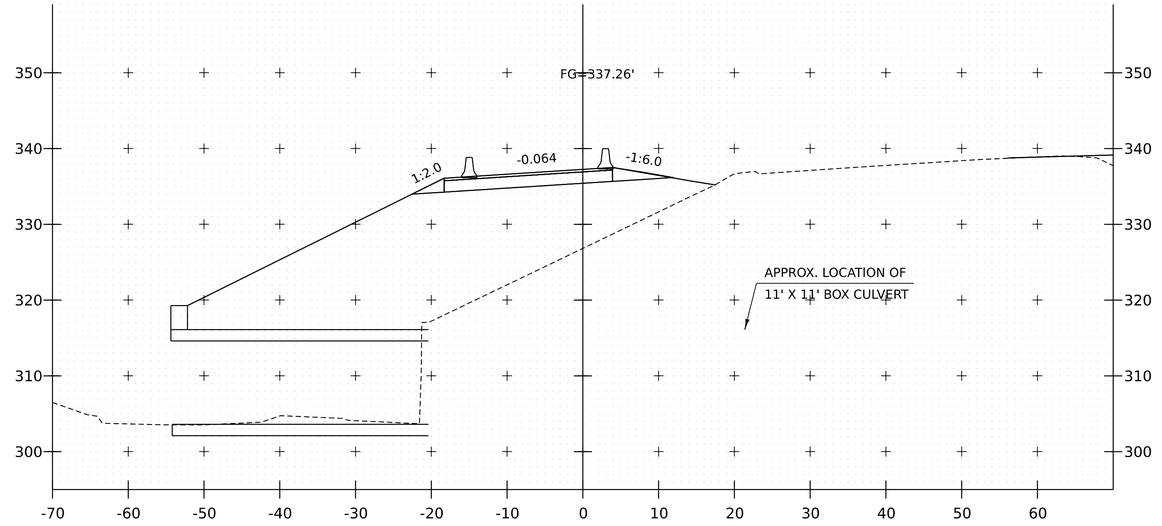
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_NB_Xover_N.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 7	SHEET 243 OF 922

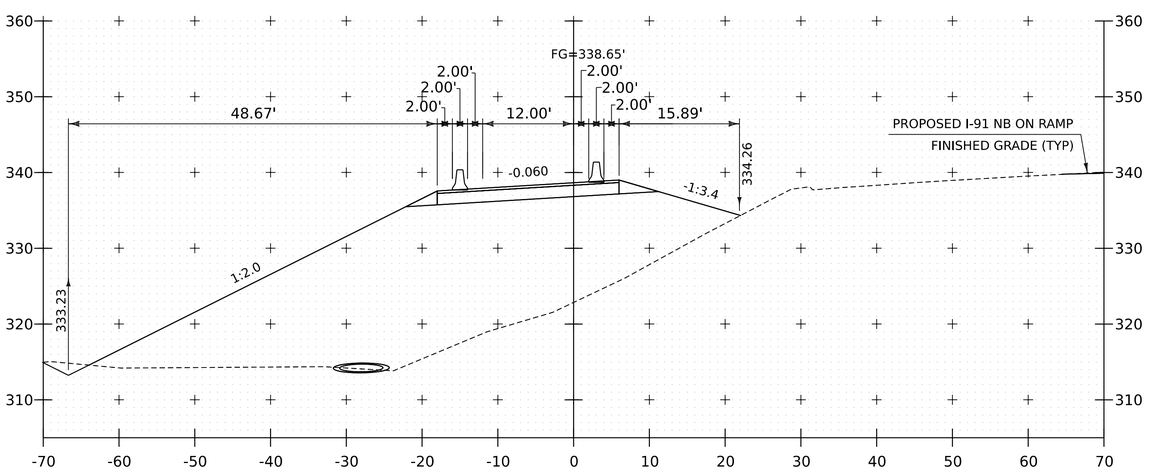
HNTB



6008+80 (SKEWED ALONG PIPE)



6009+24 (SKEWED ALONG PIPE)



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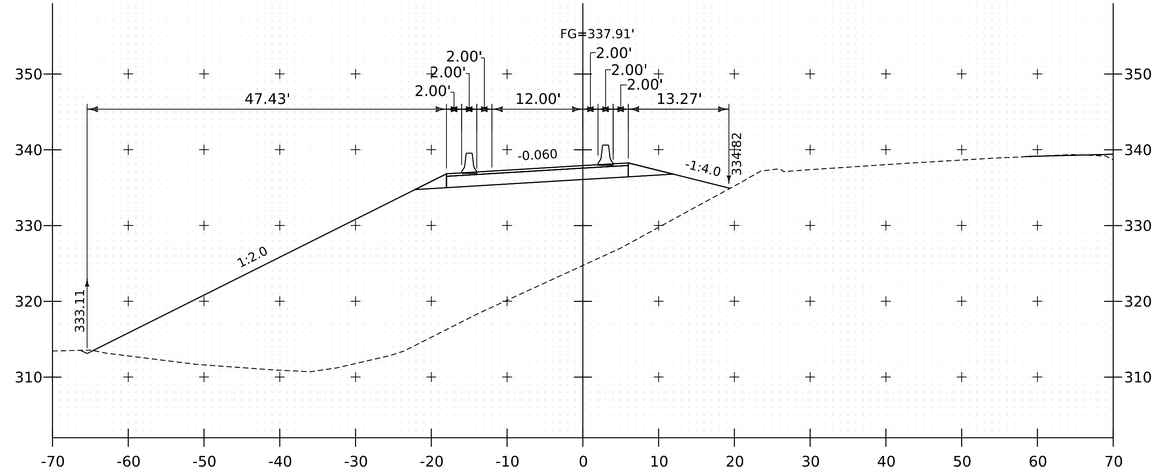
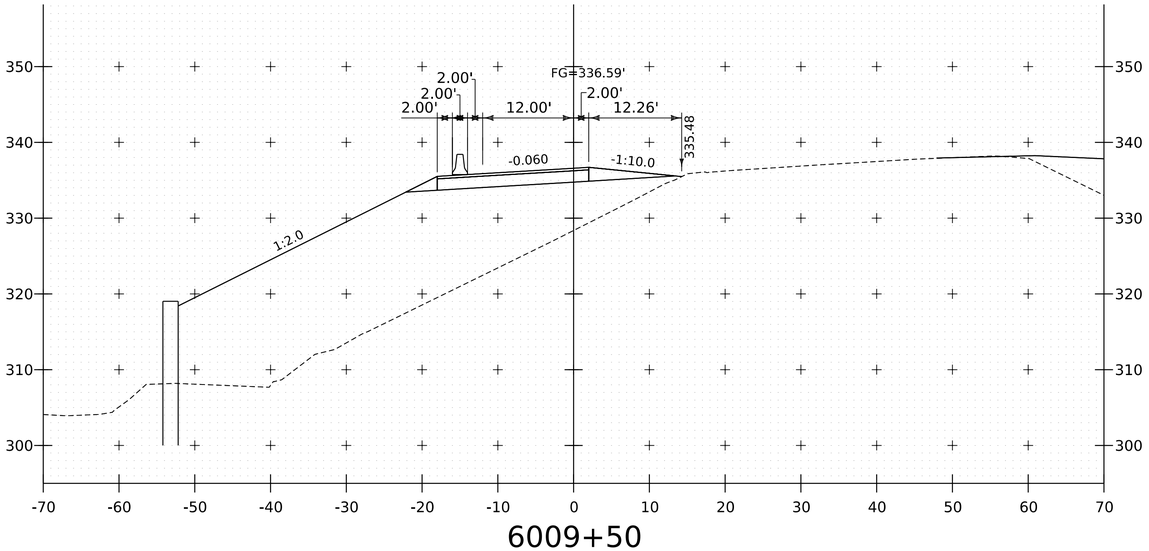


6009+00

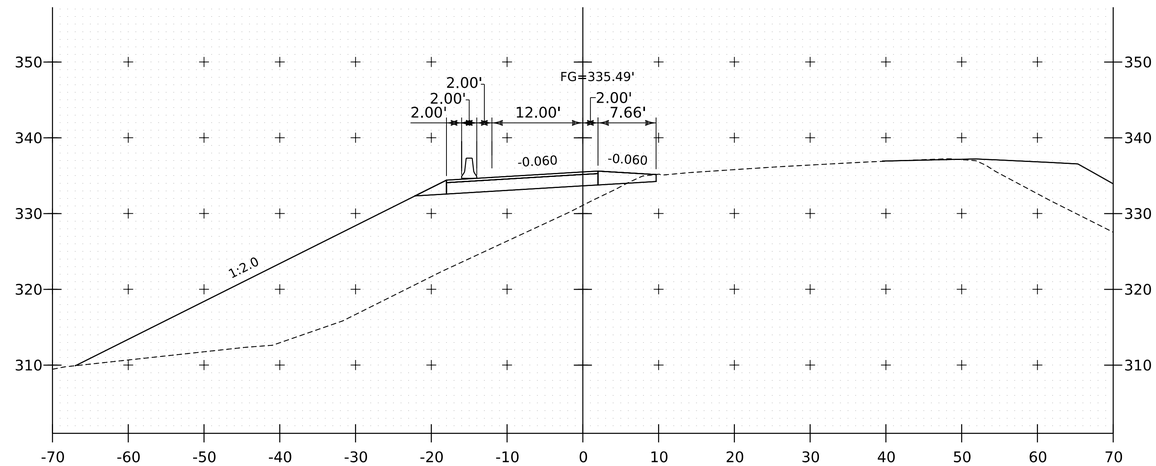
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 8		SHEET	244 OF 922

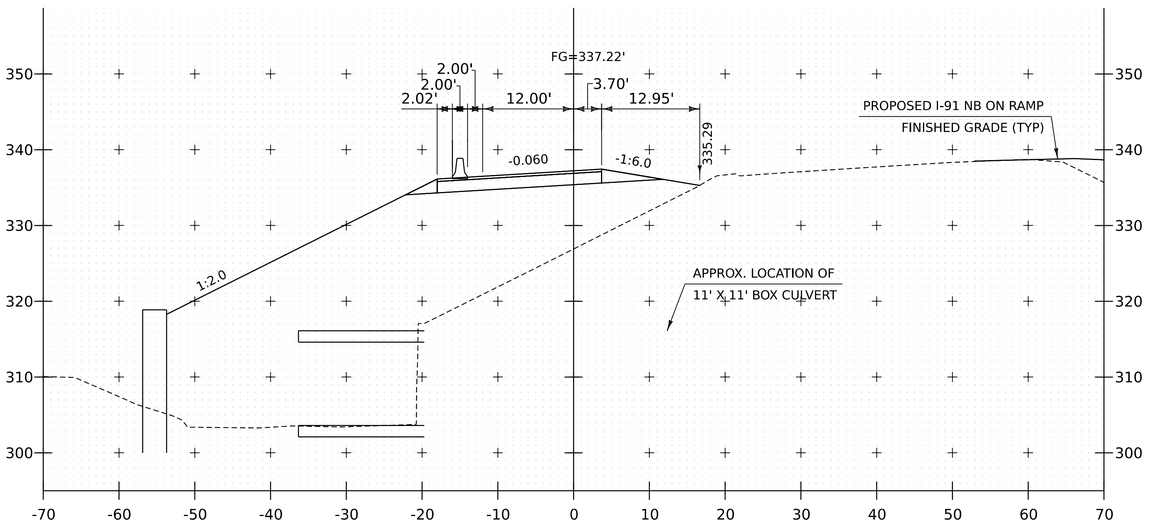
HNTB



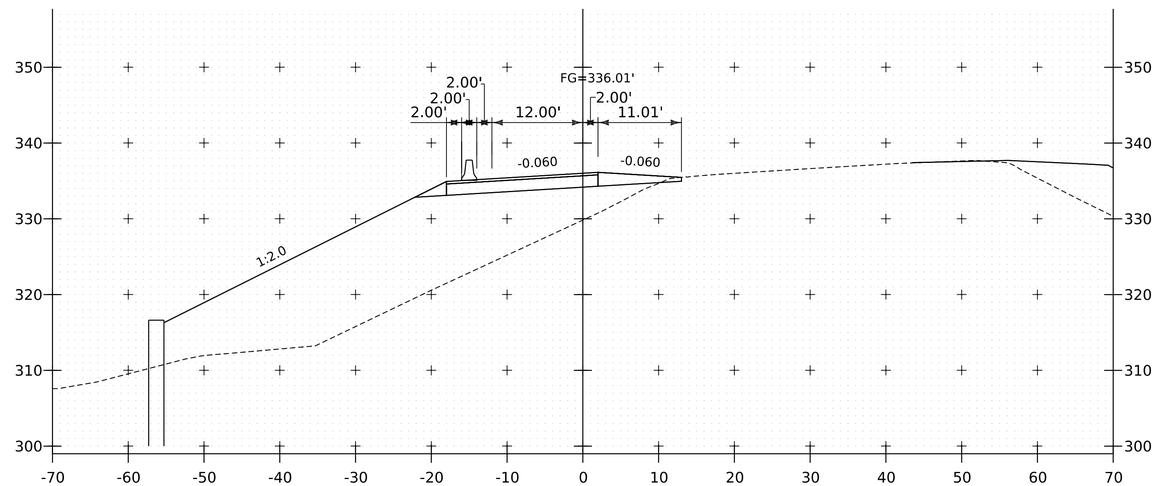
6009+50



6010+00



6009+25

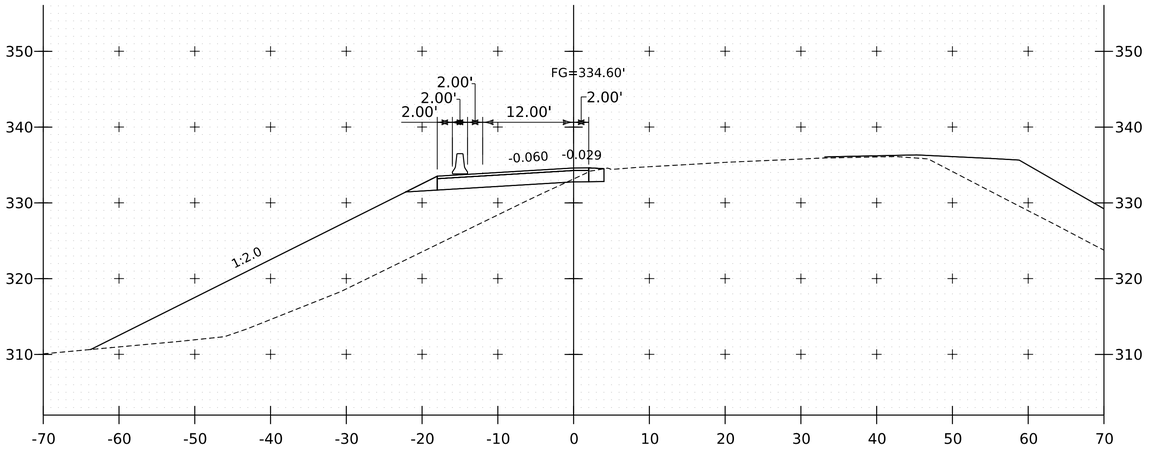


6009+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 9		SHEET	245 OF 922

HNTB



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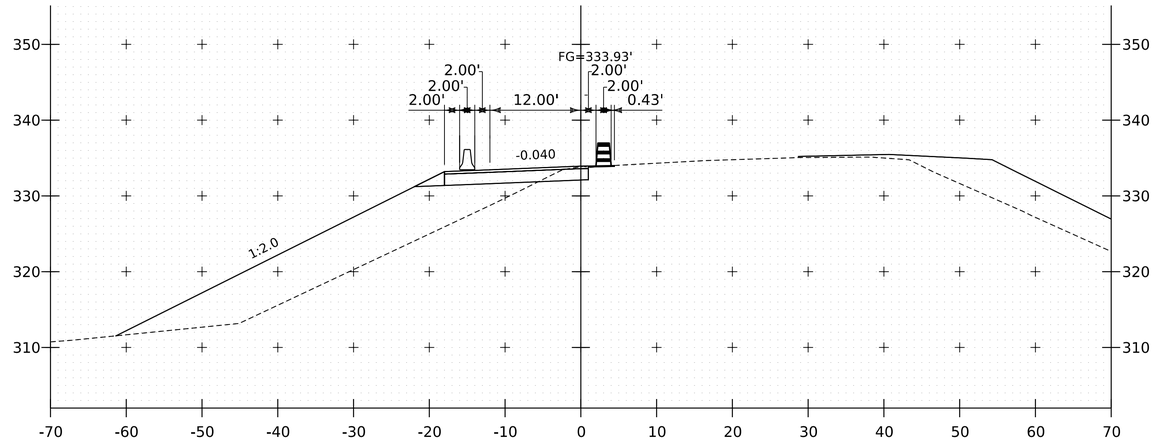
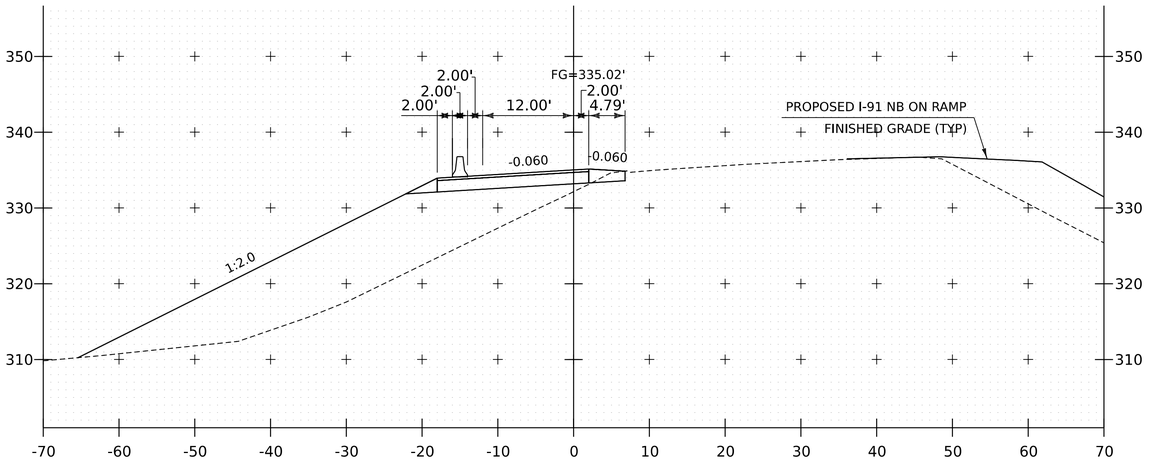


6011+00



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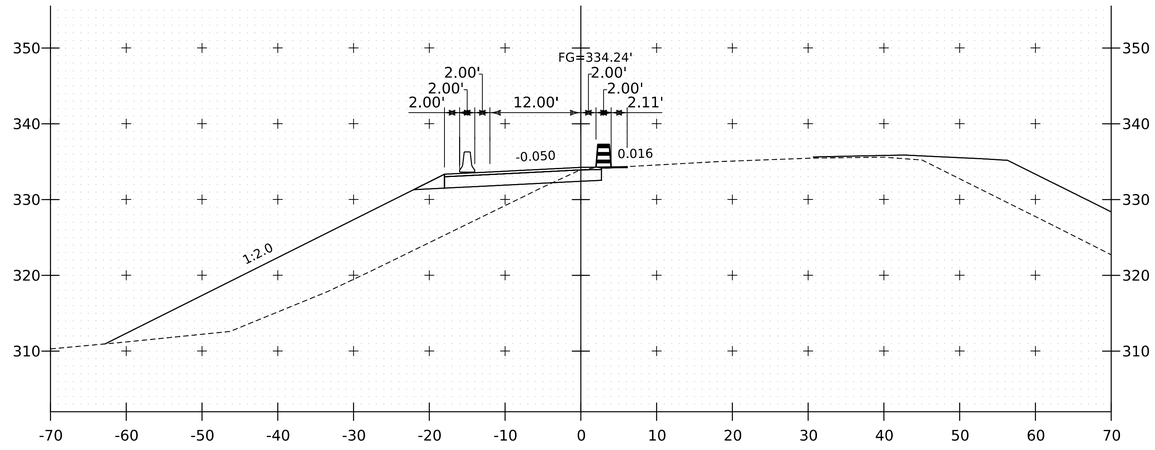
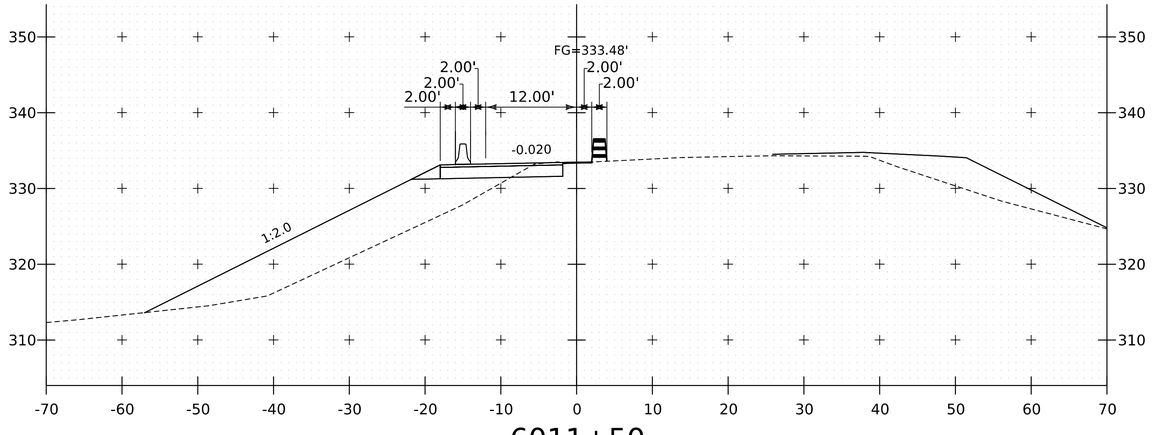


6010+75

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_NB_Xover_N.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 10

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 246 OF 922



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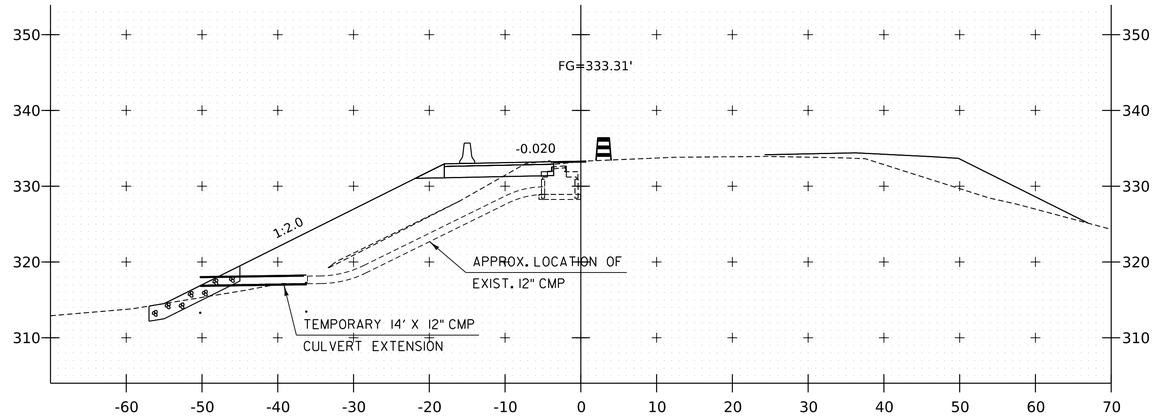
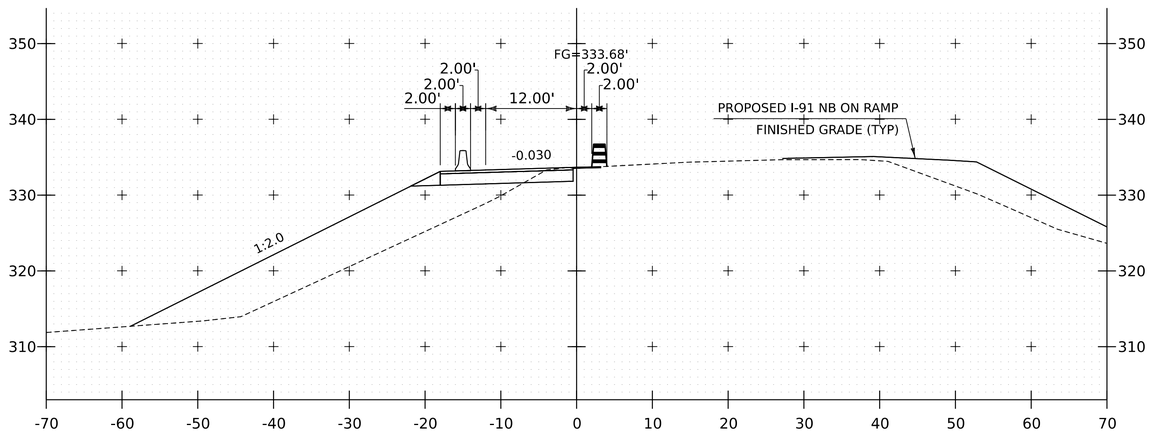
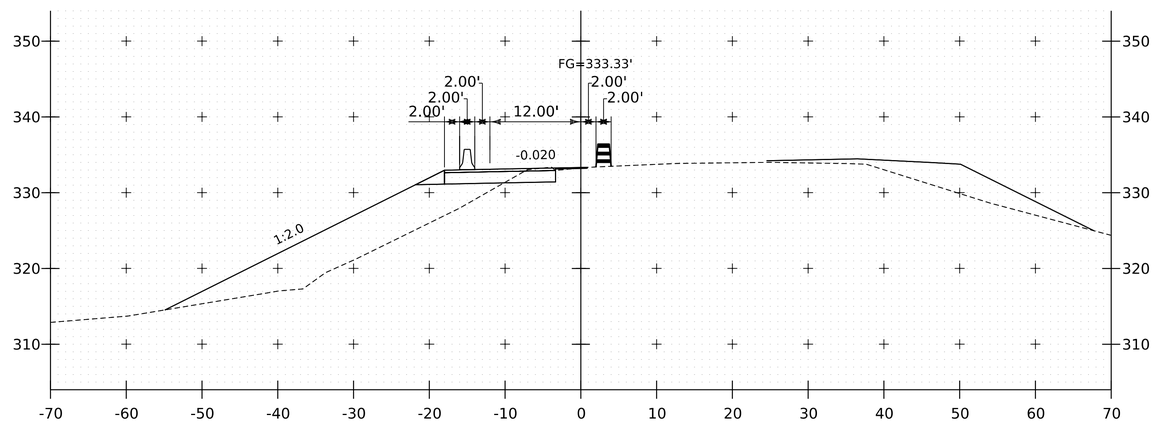


6011+79 (SKEWED ALONG PIPE)



6011+25

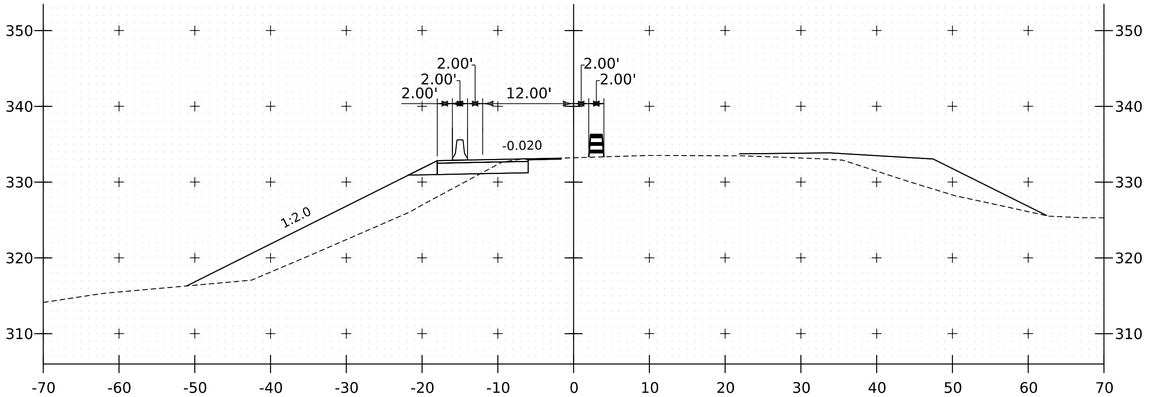


6011+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 11		SHEET	247 OF 922

HNTB



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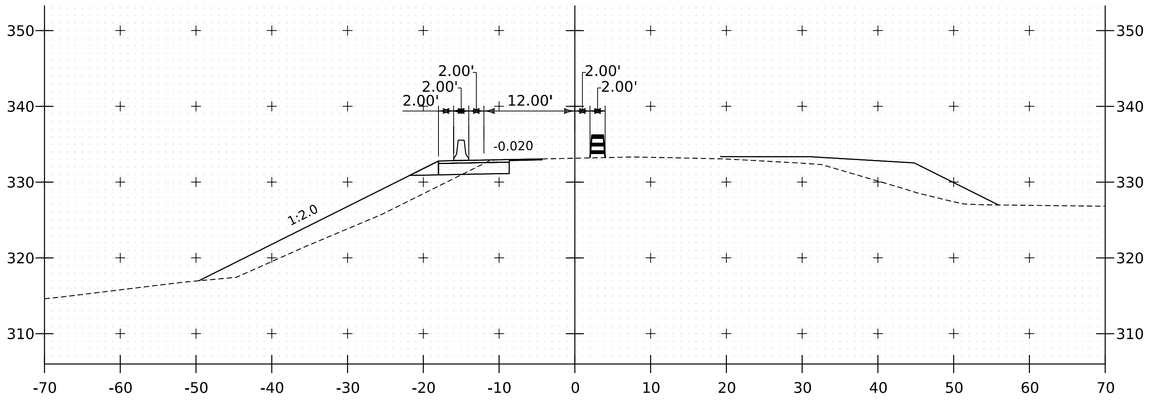

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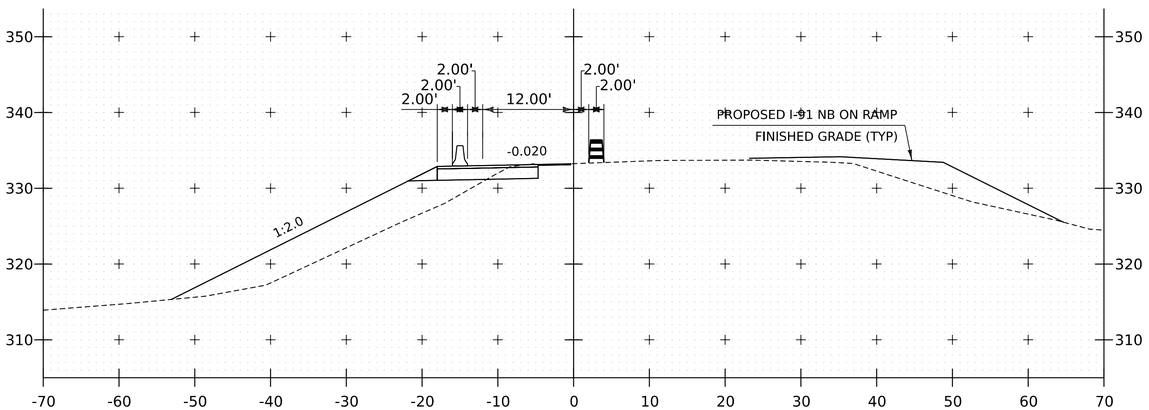

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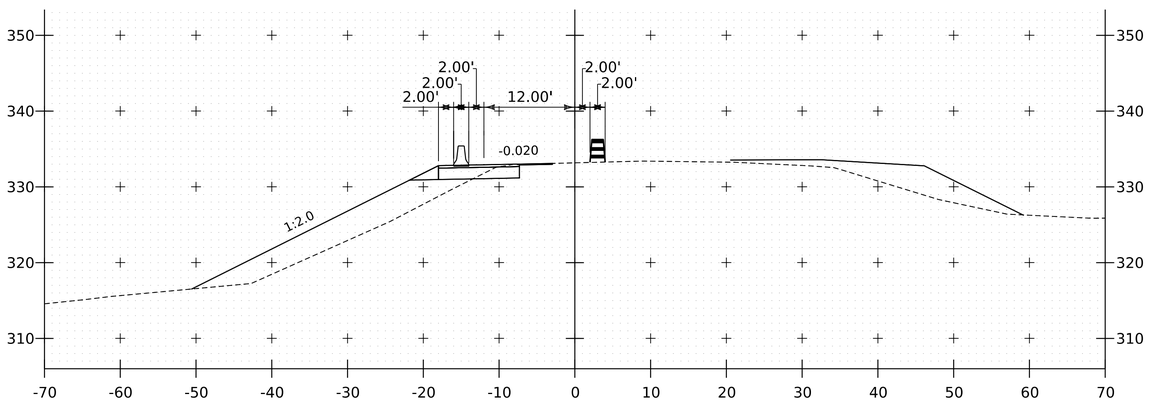
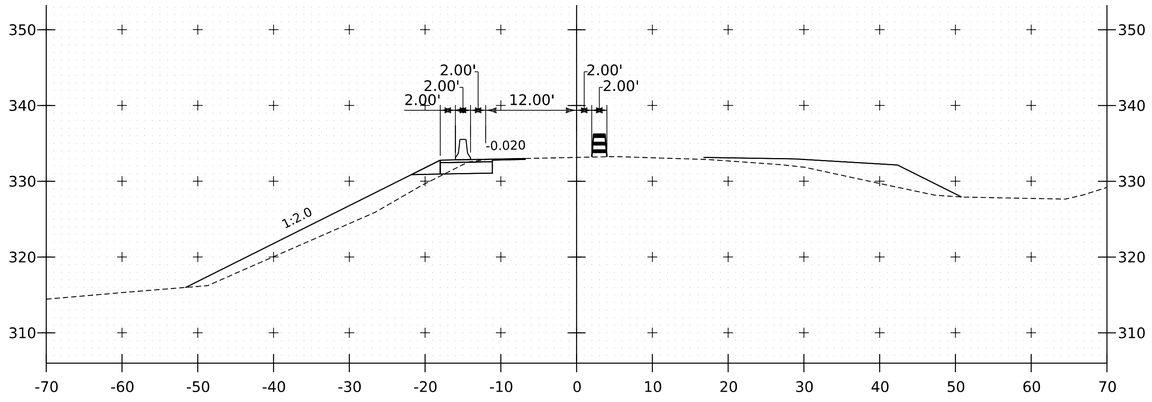


6012+50

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 12		SHEET	248 OF 922



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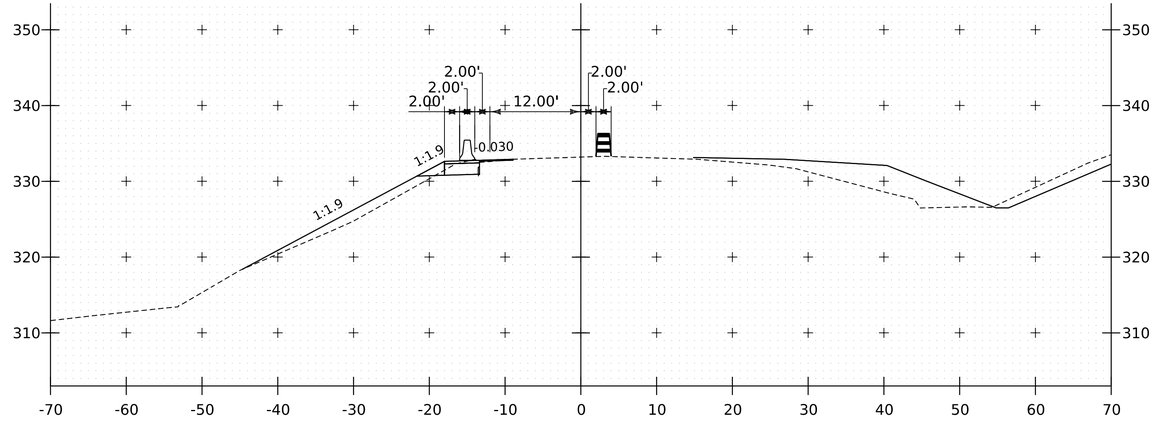

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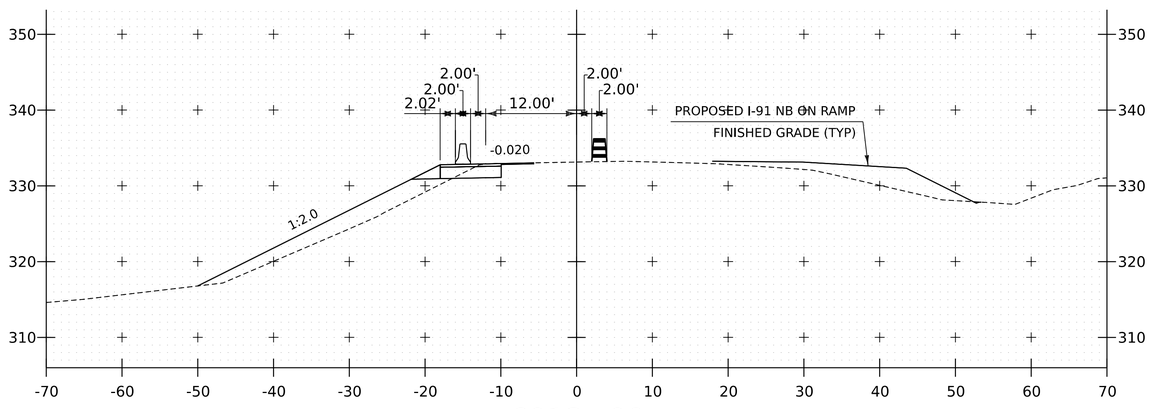

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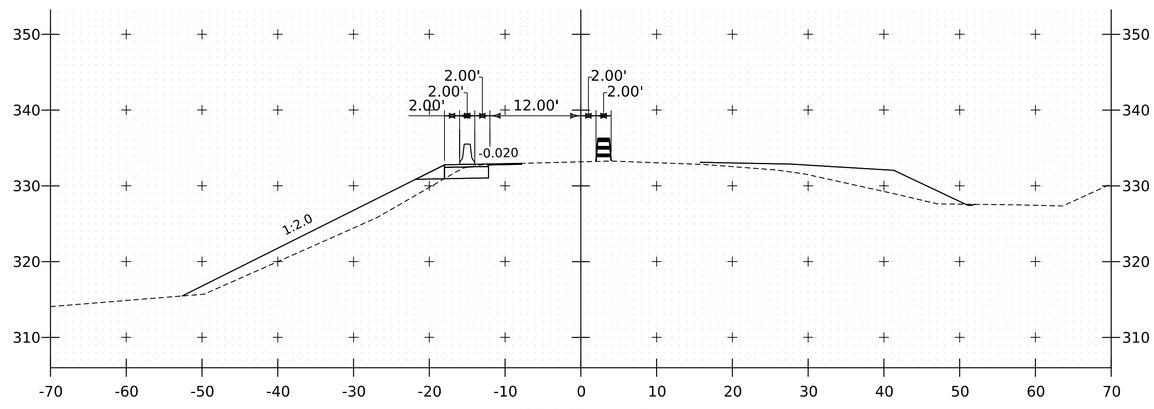
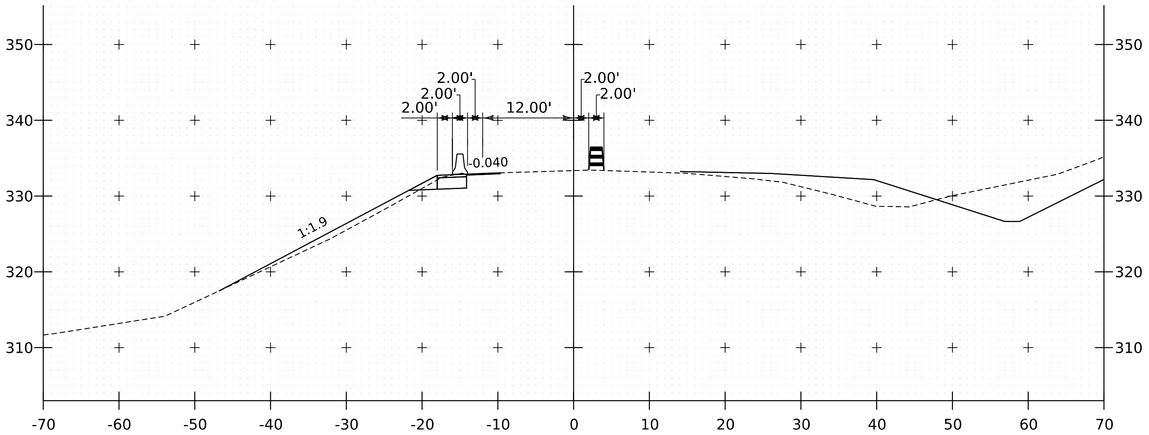


6013+50

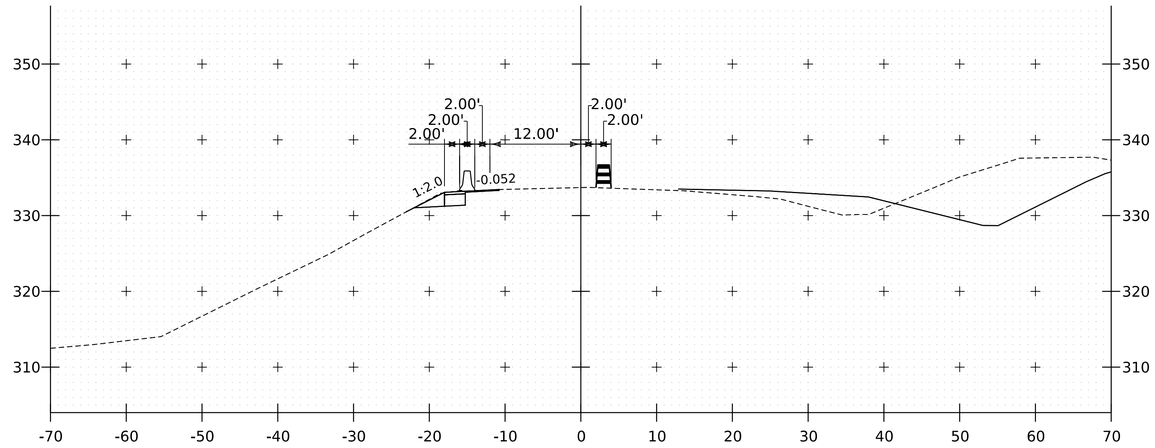
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 13		SHEET	249 OF 922



6014+00



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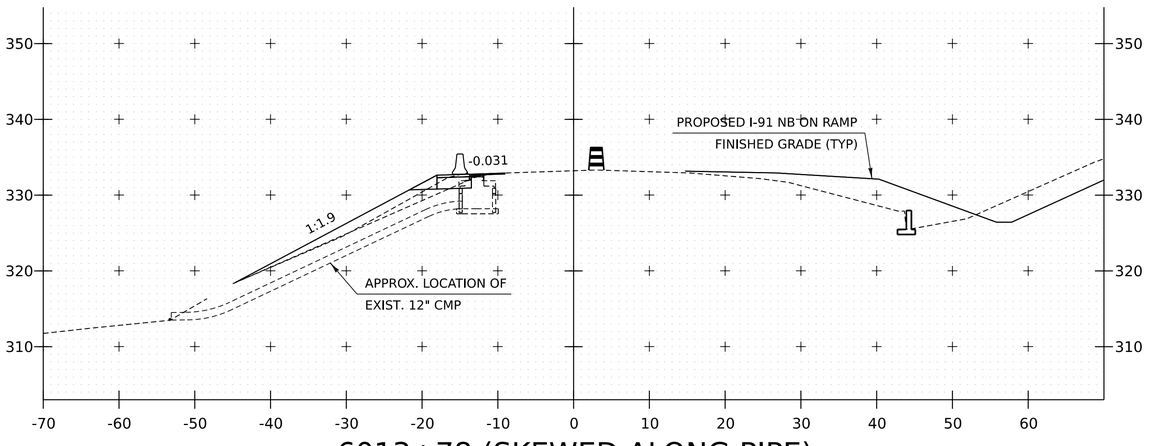

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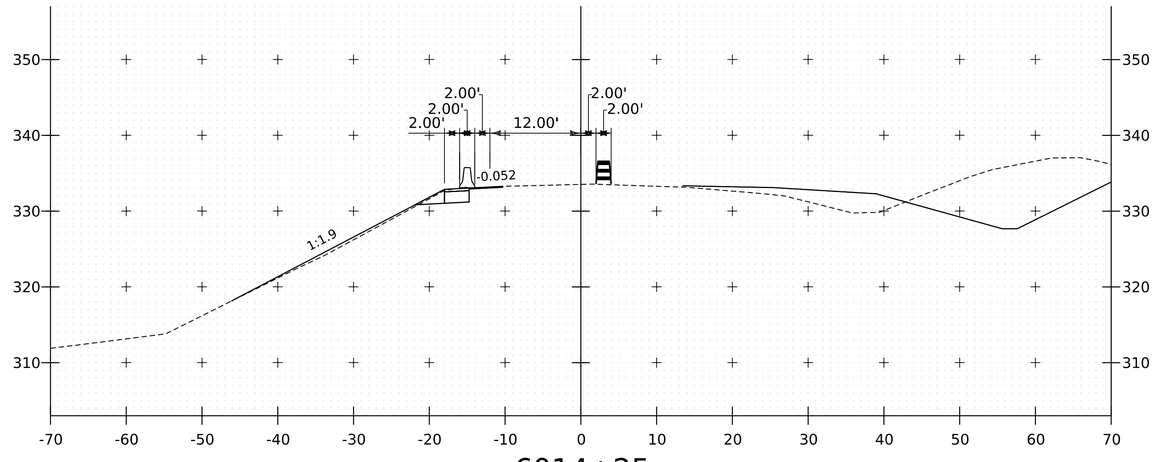
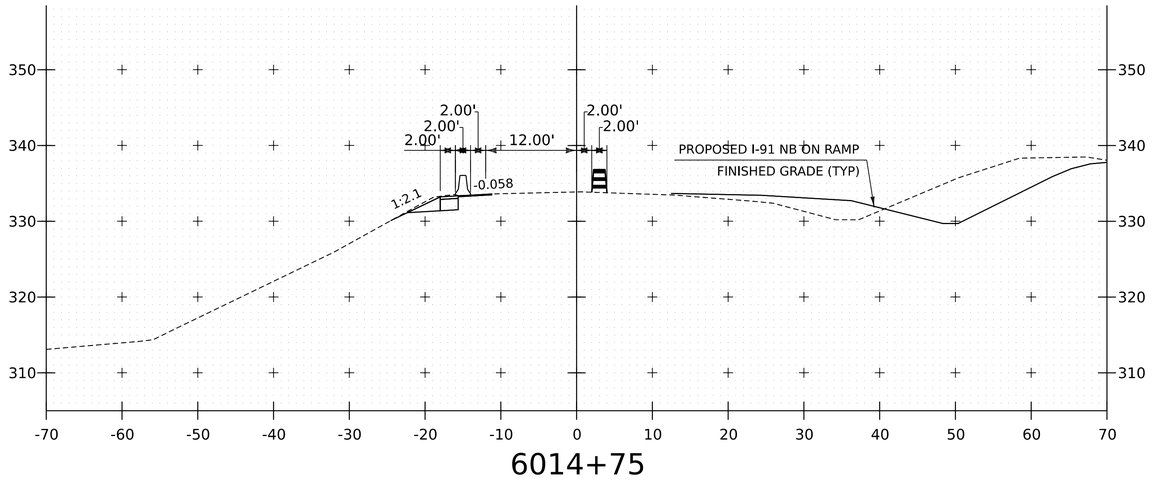


6014+25

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_NB_Xover_N.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 14

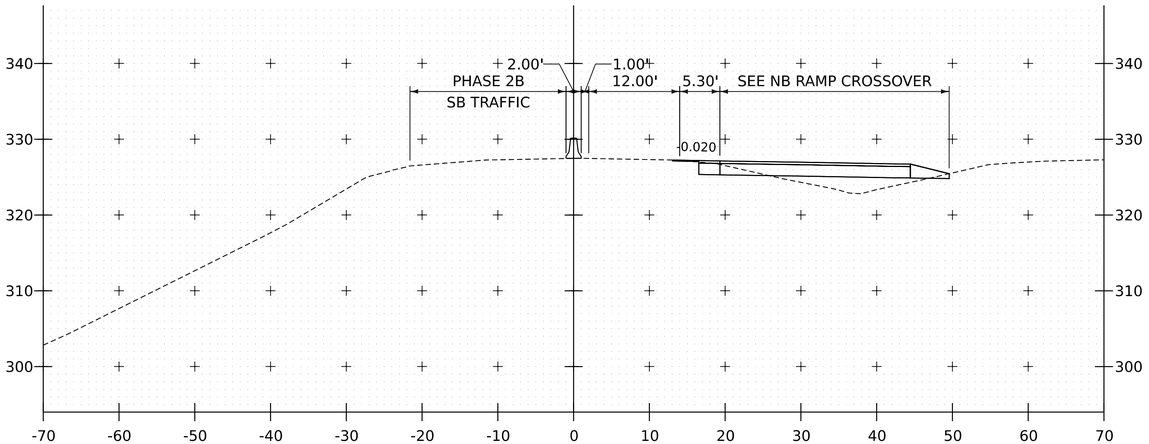
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 250 OF 922



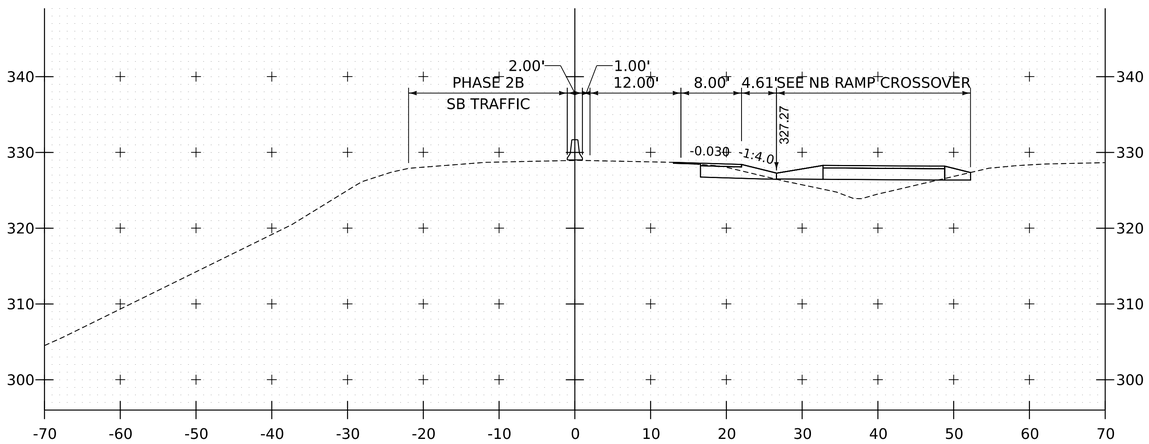
6014+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

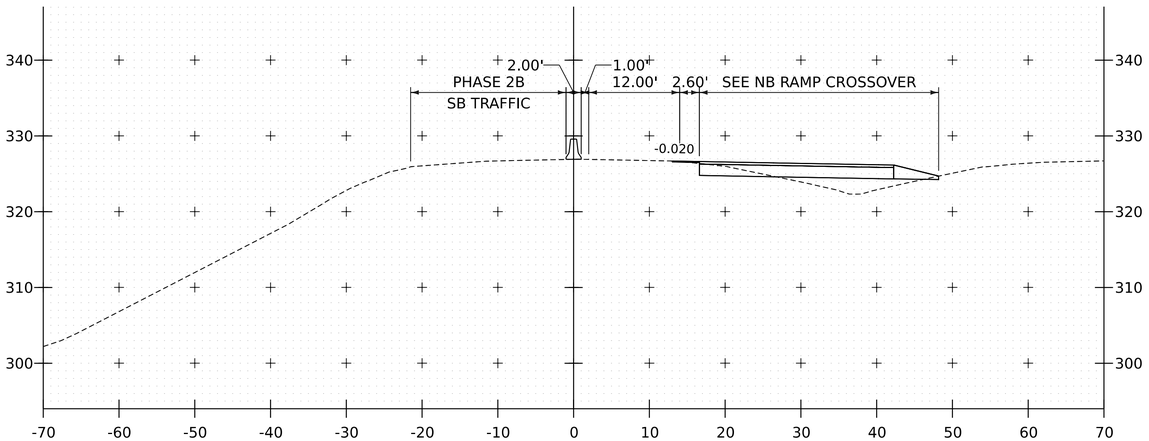
FILE NAME:	z12a574xs_NB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 2B CROSSOVER-N CROSS SECTION 15		SHEET	251 OF 922



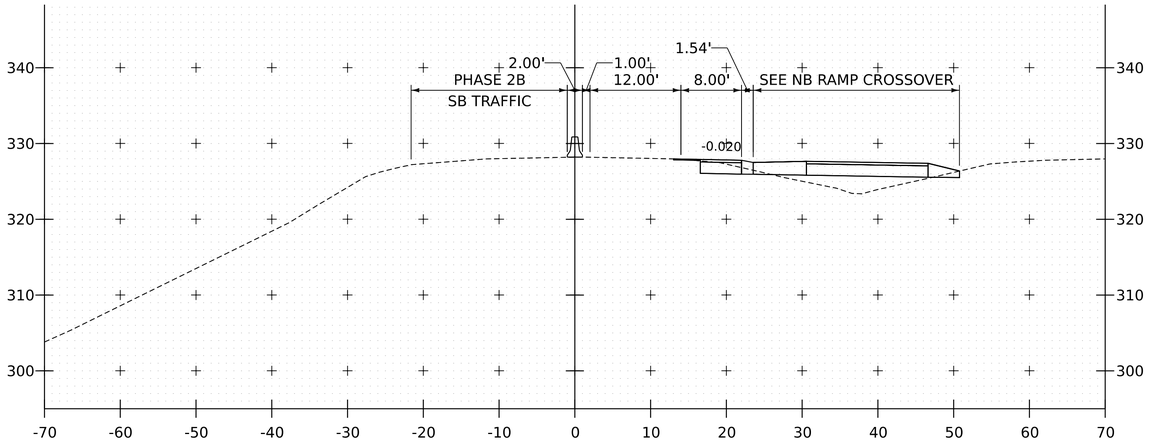
12185+25



12185+75



12185+00

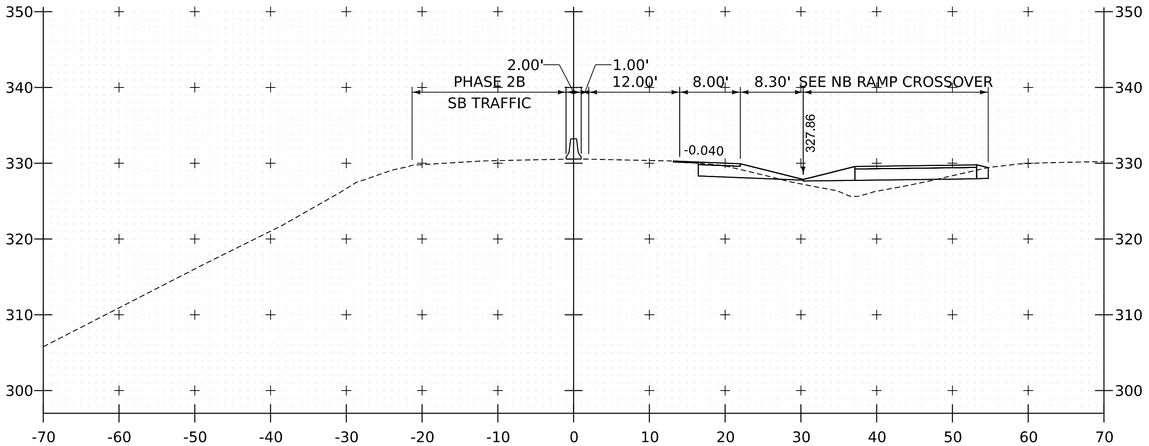


12185+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_Widening.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 1		SHEET	252 OF 922

HNTB



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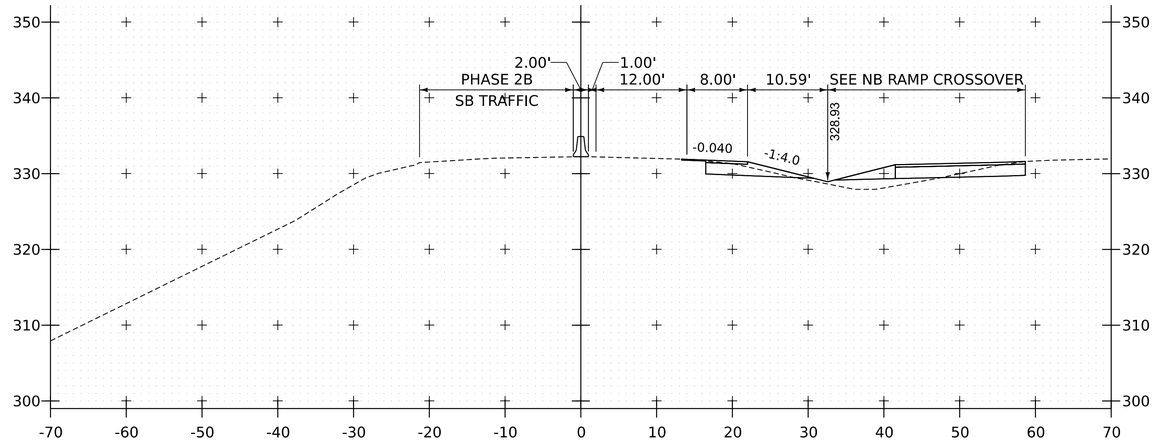
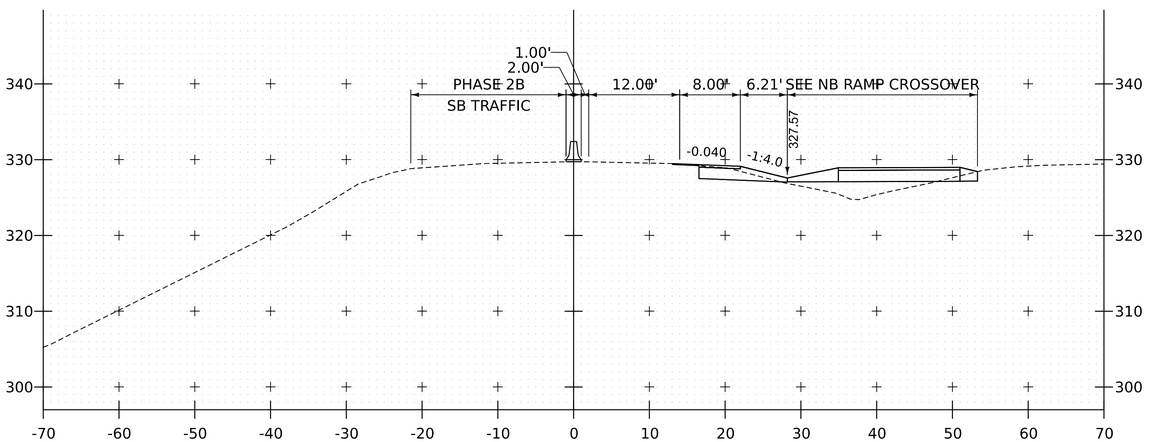
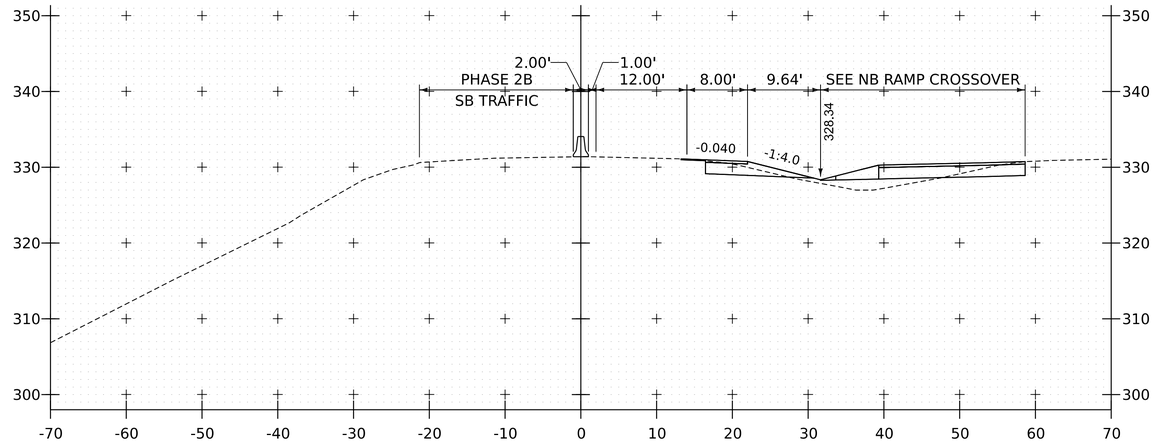


12186+75



12186+00

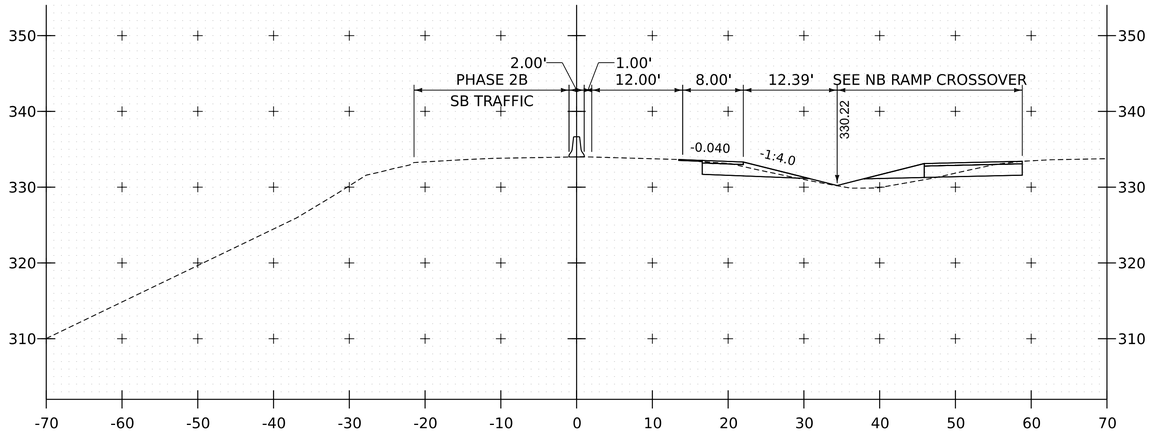


12186+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_Widening.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 2		SHEET	253 OF 922

HNTB



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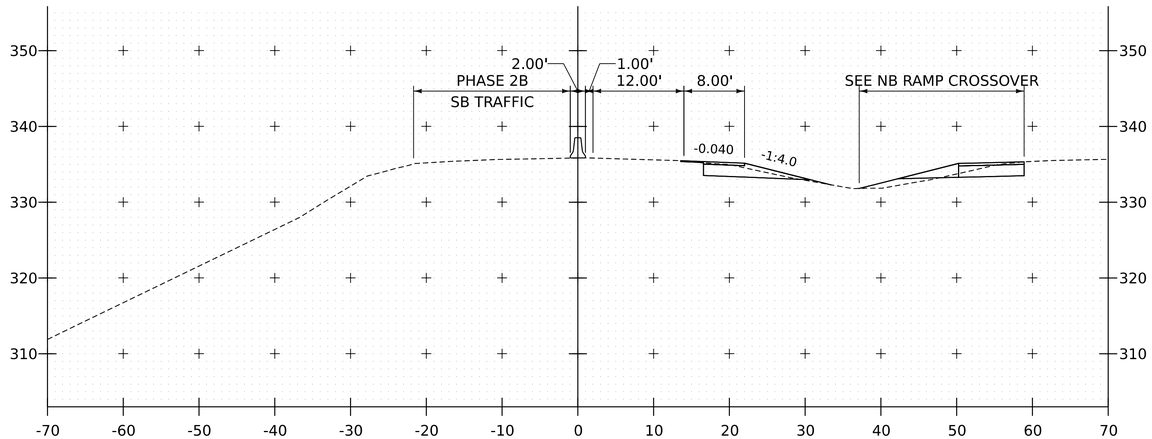
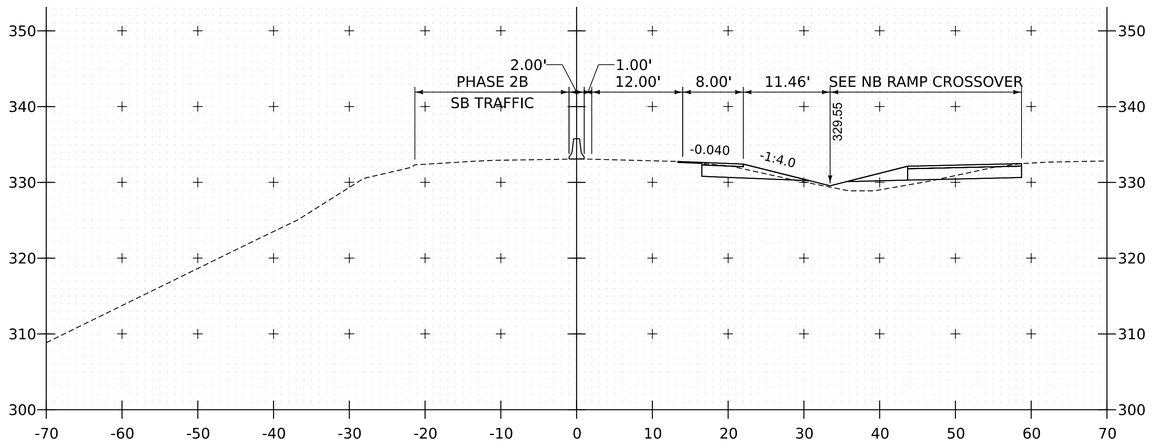
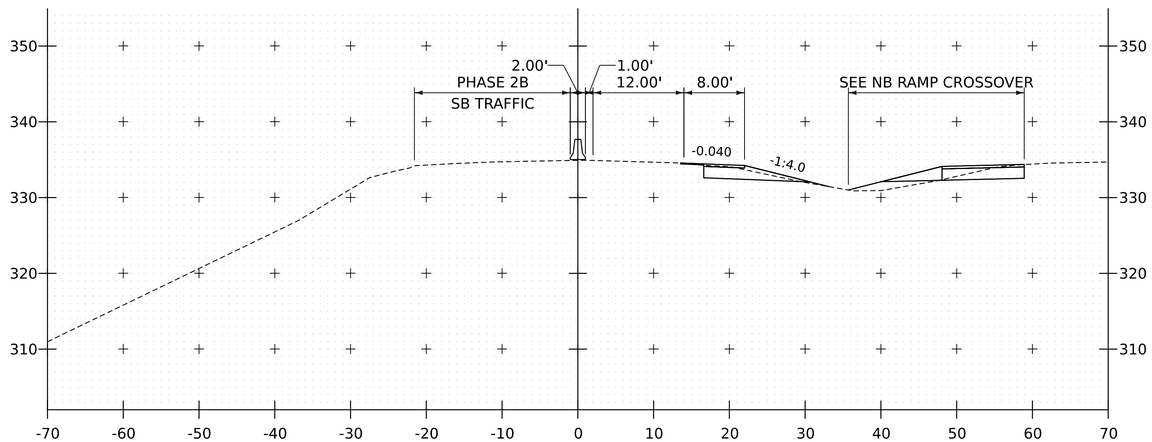


12187+75



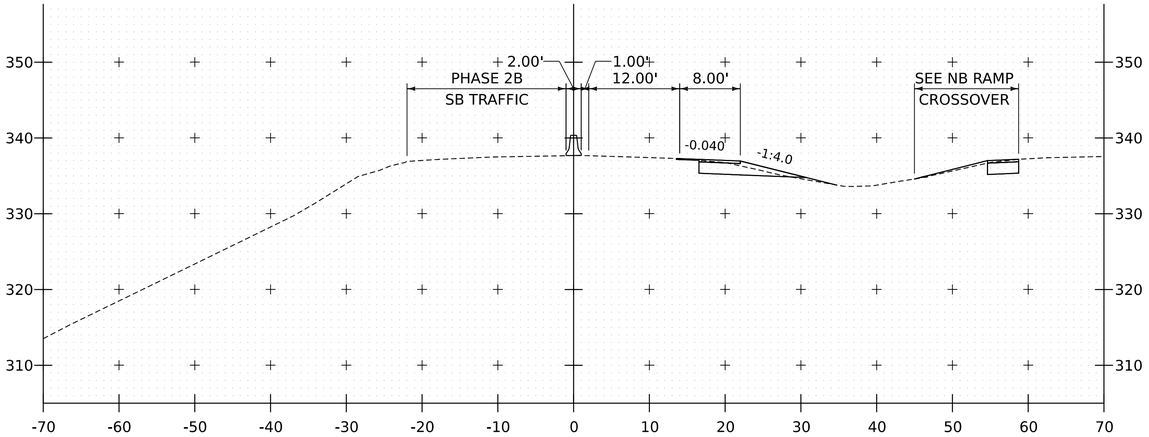
12187+00



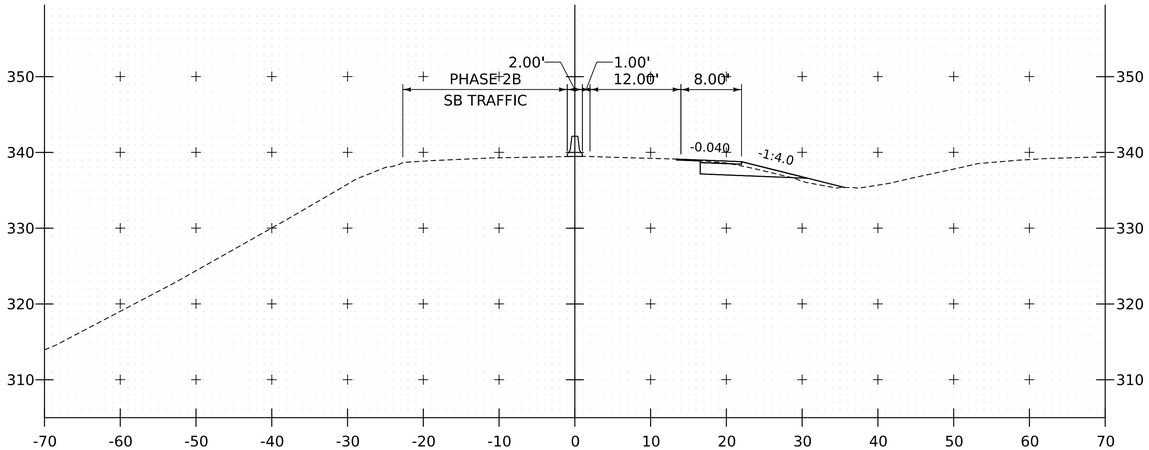
12187+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

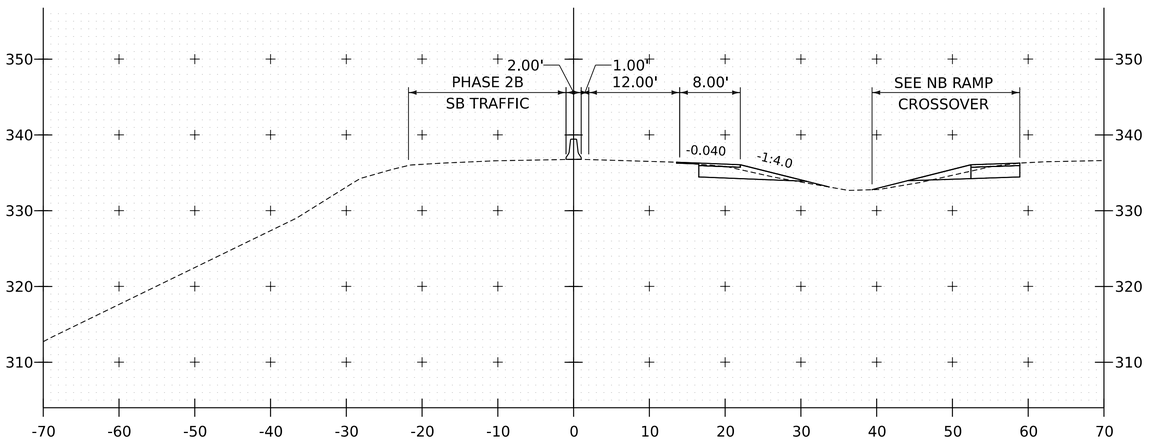
FILE NAME:	z12a574xs_NB_Xover_Widening.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 3		SHEET	254 OF 922



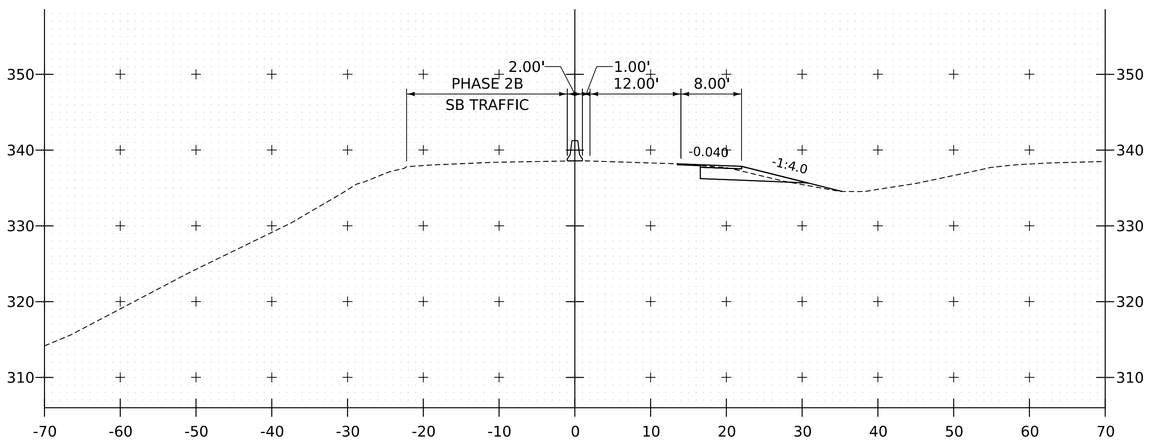
12188+25



12188+75



12188+00

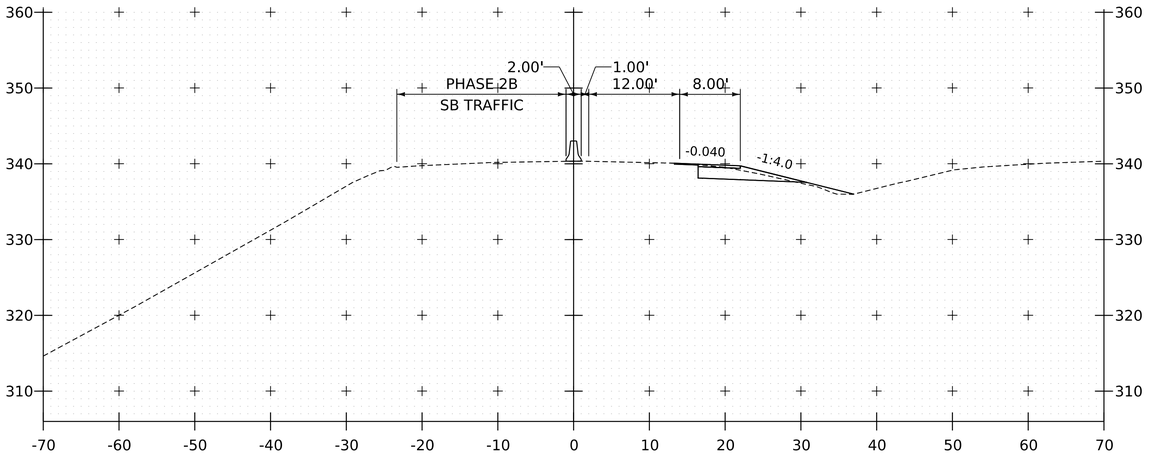


12188+50

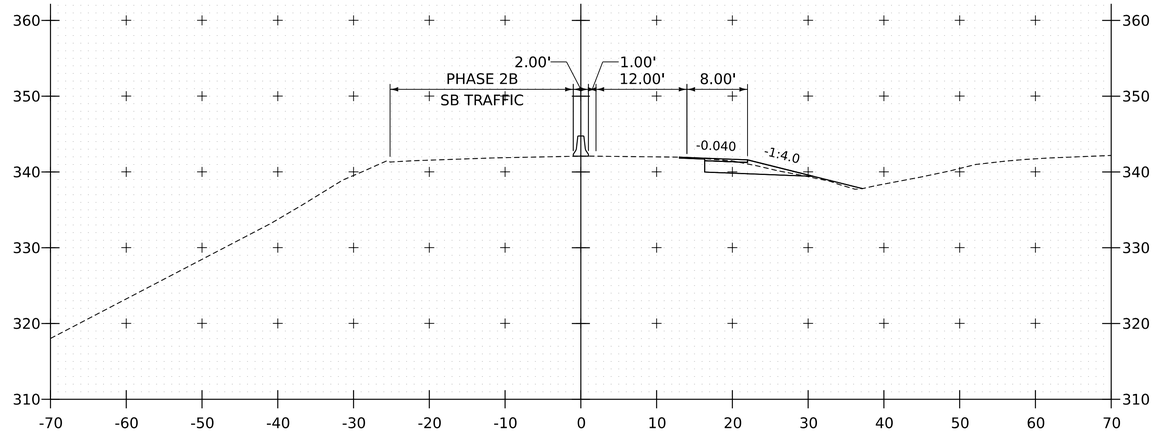
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_Widening.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 4		SHEET	255 OF 922

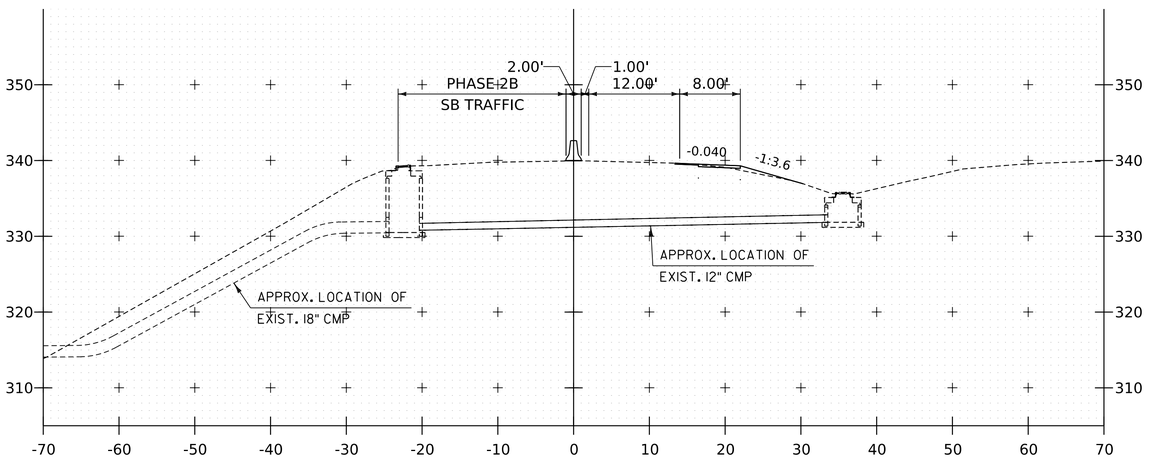
HNTB



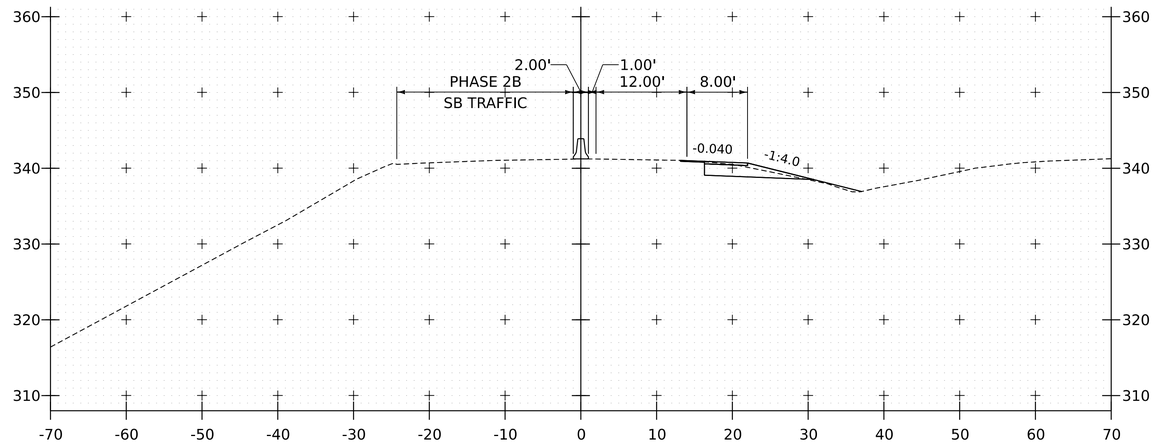
12189+00



12189+50



12188+89

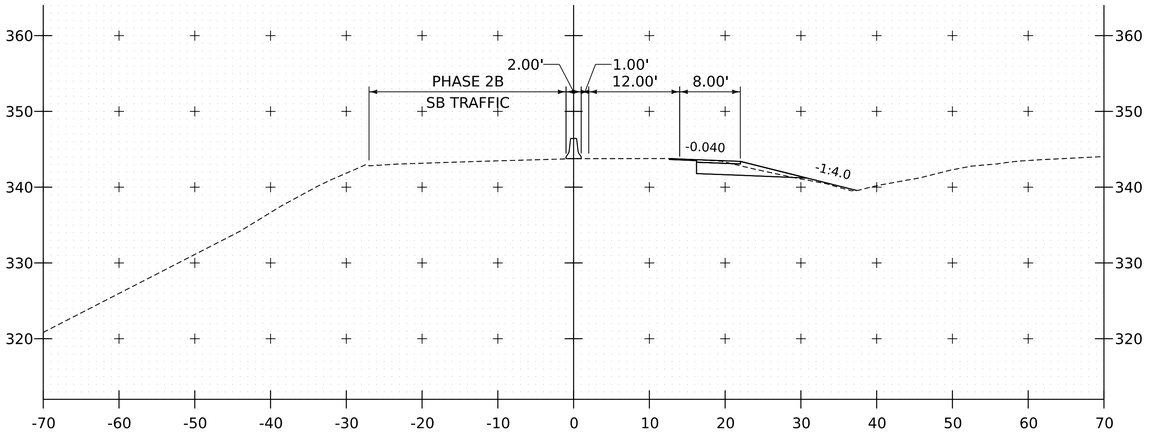


12189+25

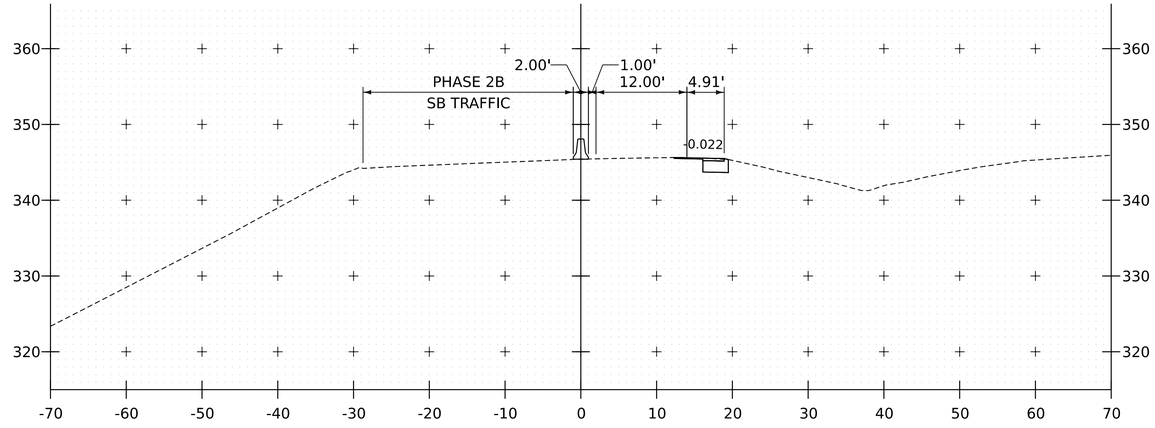
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_NB_Xover_Widening.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 5		SHEET	256 OF 922

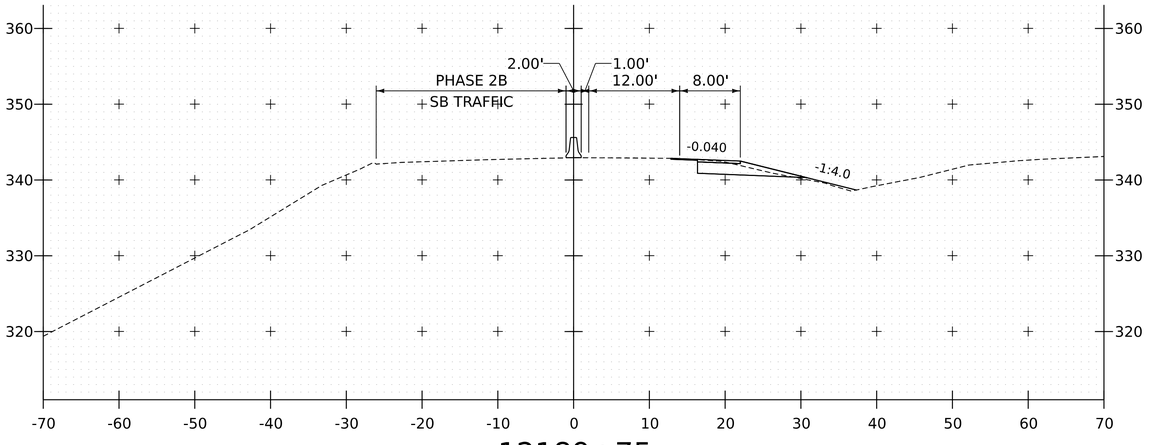
HNTB



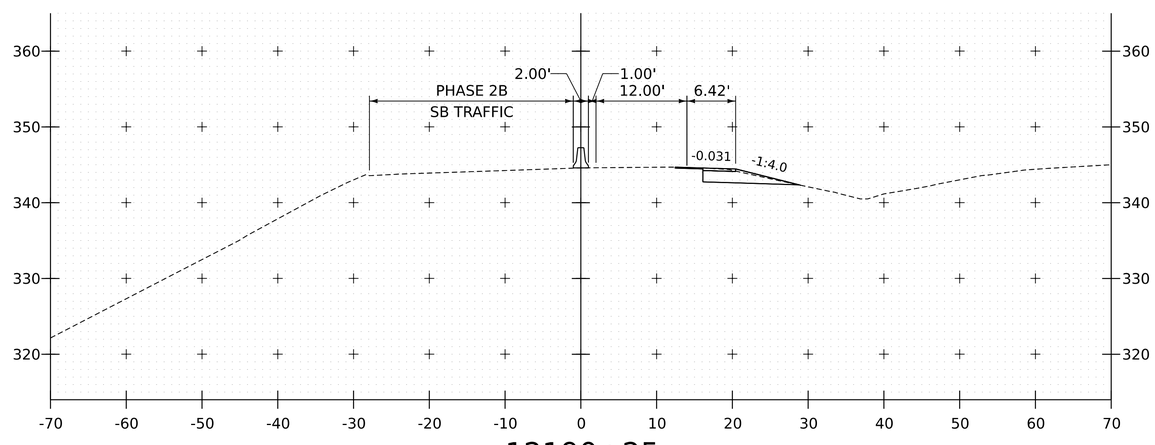
12190+00



12190+50



12189+75

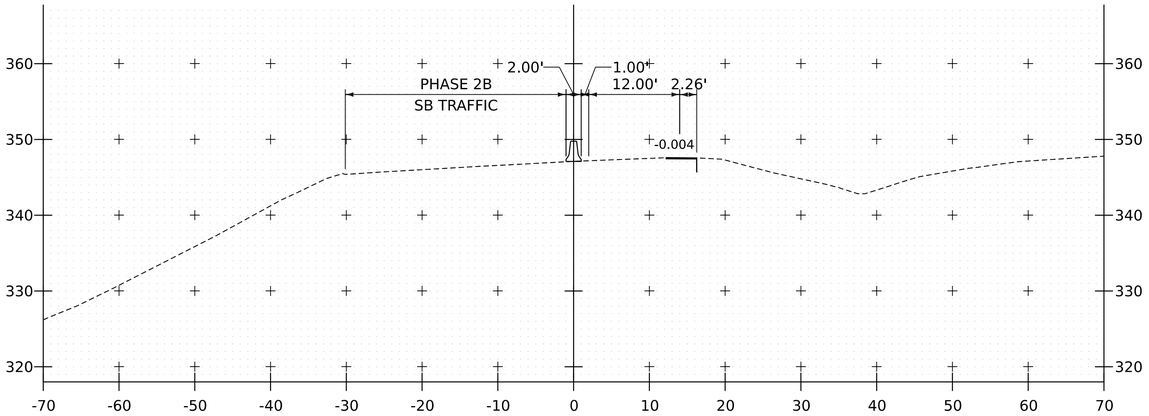


12190+25

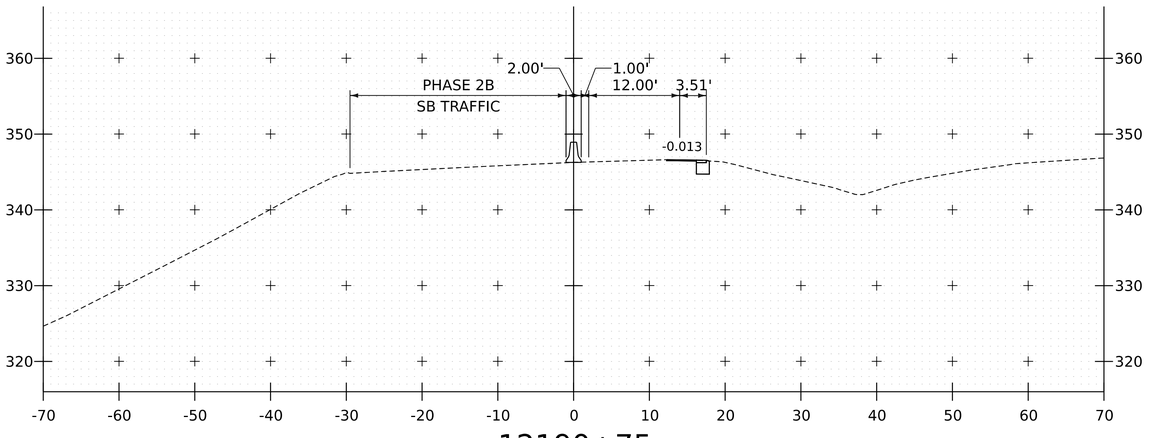
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_NB_Xover_Widening.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 6

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 257 OF 922



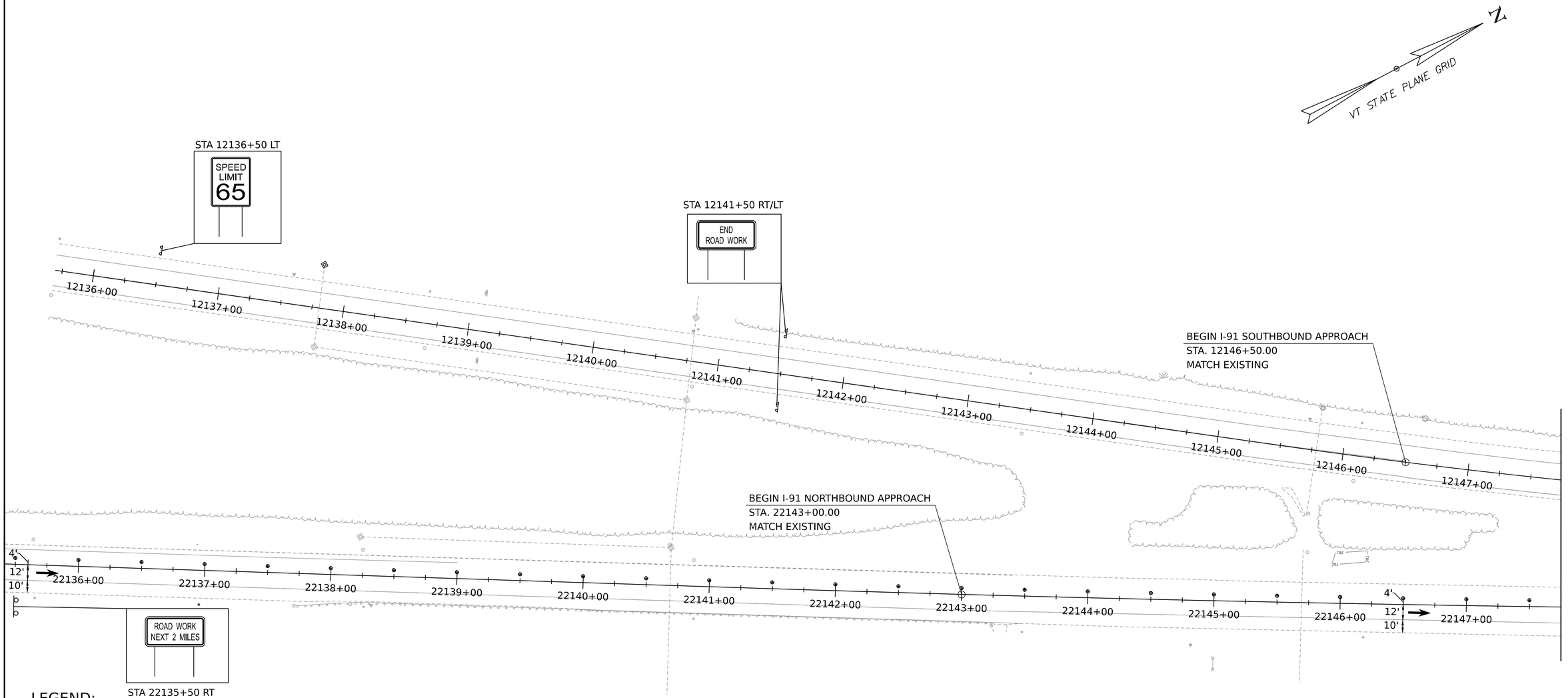
12191+00



12190+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

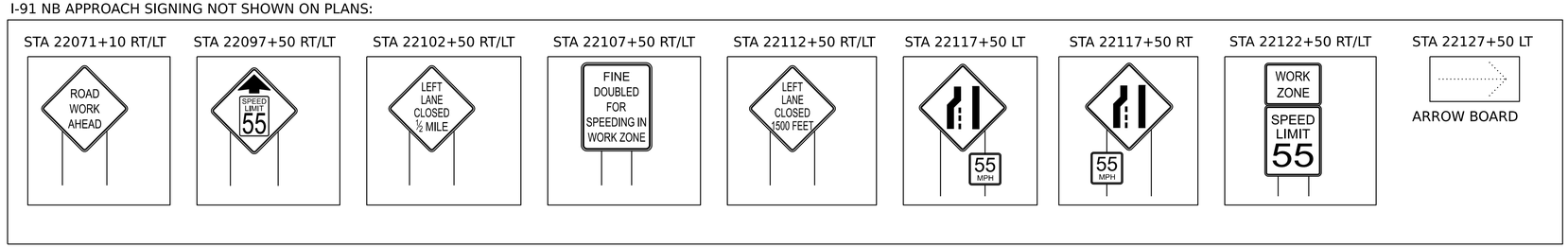
FILE NAME:	z12a574xs_NB_Xover_Widening.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 2B I-91 SB TEMP. WIDENING CROSS SECTION 7		SHEET	258 OF 922



LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- DWL DOTTED WHITE LINE
- BWL BROKEN WHITE LINE
- TRAFFIC FLOW ARROW
- FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:



SCALE 1" = 40'-0"

40 0 40

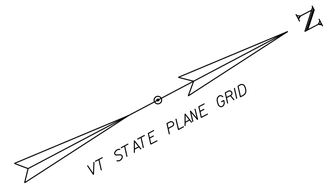
HNTB

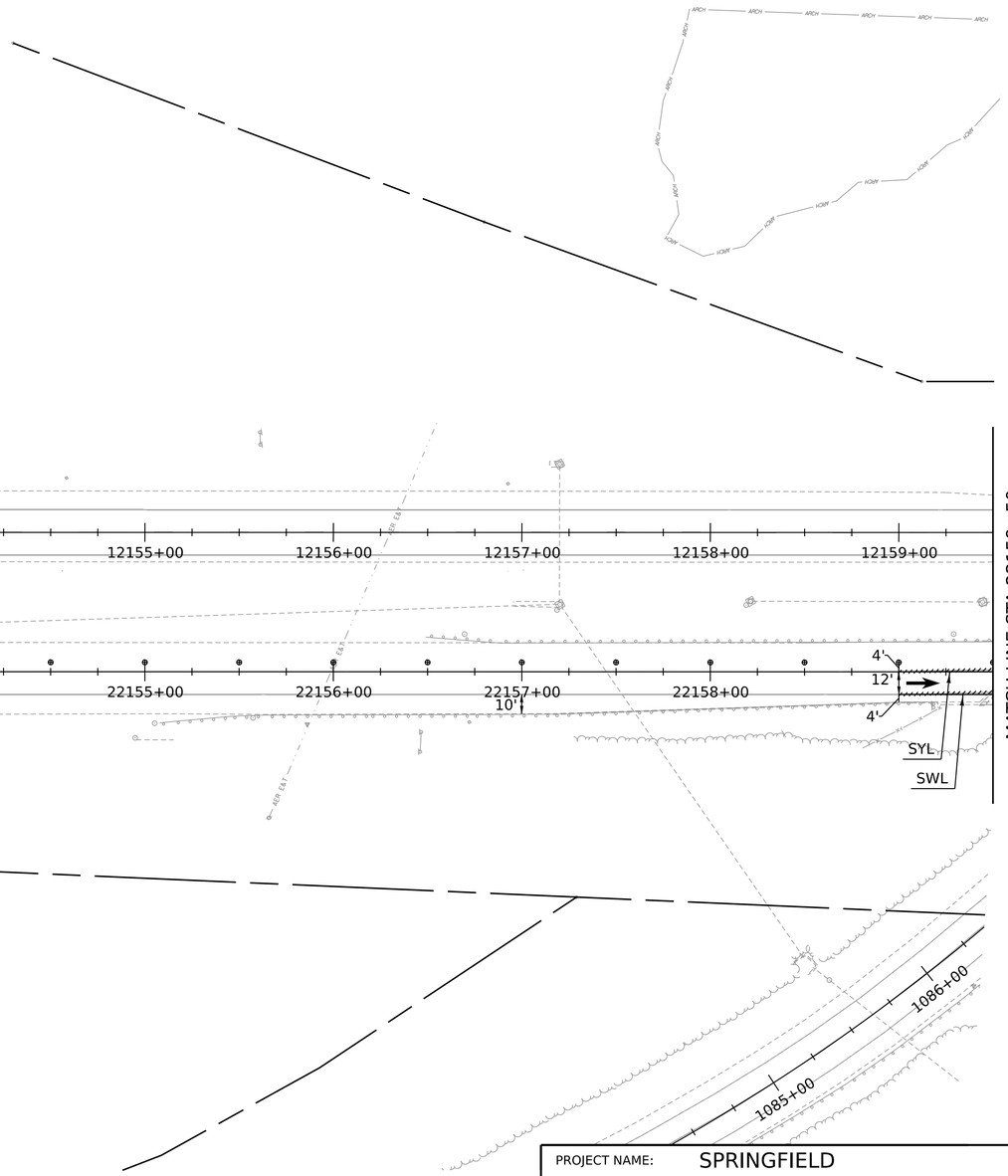
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 1		SHEET	259 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22159+00 CL TO 22159+50 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22159+00 TO 22159+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 22159+00 CL TO 22159+50 LT
STA 22159+00 TO 22159+00 RT





SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage3a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 2		SHEET	260 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12162+20 TO 12164+00 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12164+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22159+50 CL TO 22171+50 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22159+50 TO 22171+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 22159+50 RT TO 12171+50 RT
STA 22159+50 LT TO 12171+50 RT
STA 22168+50 TO 22171+50 CL
STA 22168+50 TO 22171+50 RT

VT STATE PLANE GRID

EXISTING R.O.W.

MATCH LINE STA 22159+50

MATCH LINE STA 22171+50

SYL

SWL

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3a	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 3	SHEET 261 OF 922

HNTB

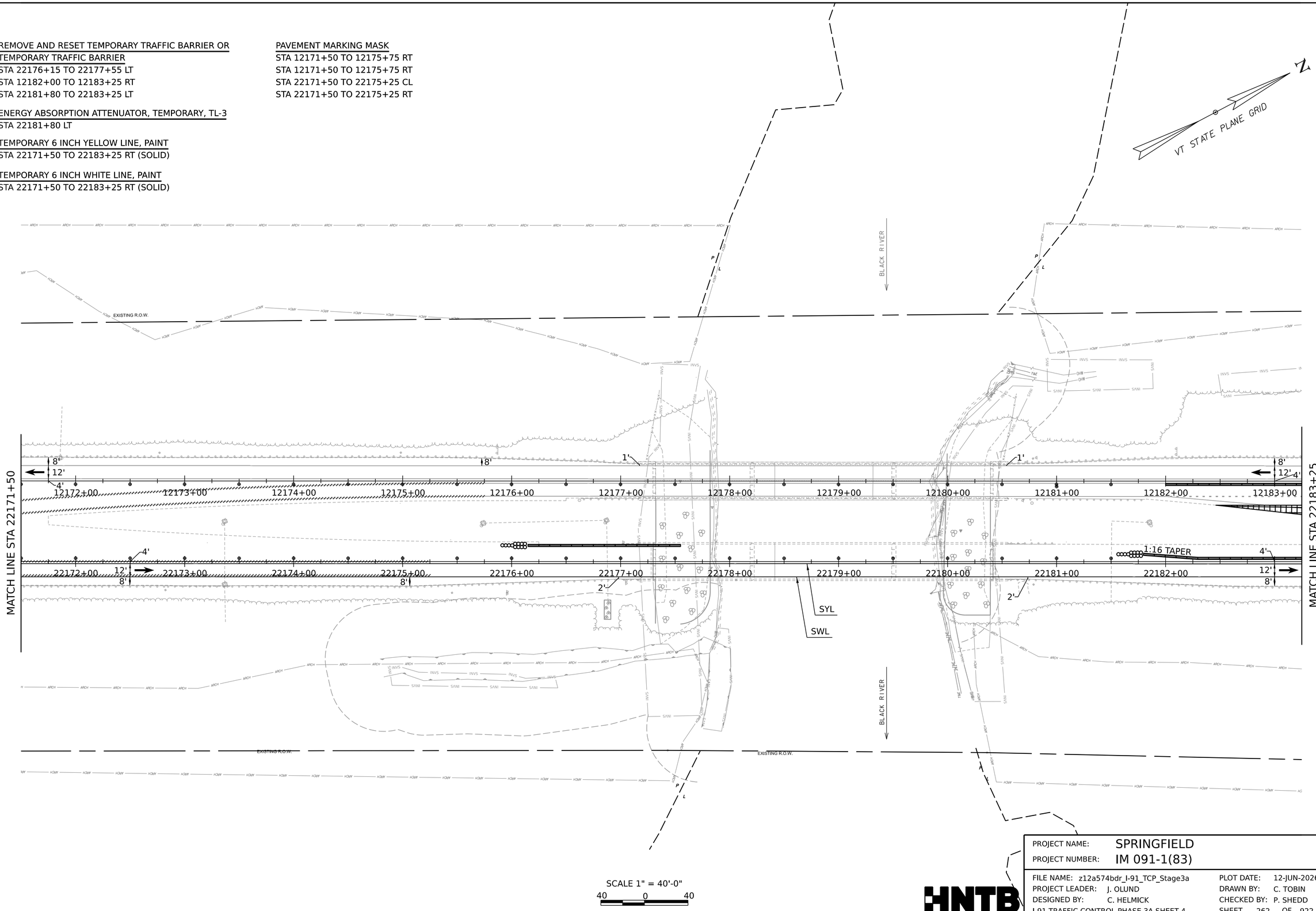
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22176+15 TO 22177+55 LT
STA 12182+00 TO 12183+25 RT
STA 22181+80 TO 22183+25 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22181+80 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22171+50 TO 22183+25 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22171+50 TO 22183+25 RT (SOLID)

PAVEMENT MARKING MASK
STA 12171+50 TO 12175+75 RT
STA 12171+50 TO 12175+75 RT
STA 22171+50 TO 22175+25 CL
STA 22171+50 TO 22175+25 RT



SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 4		SHEET	262 OF 922

HNTB

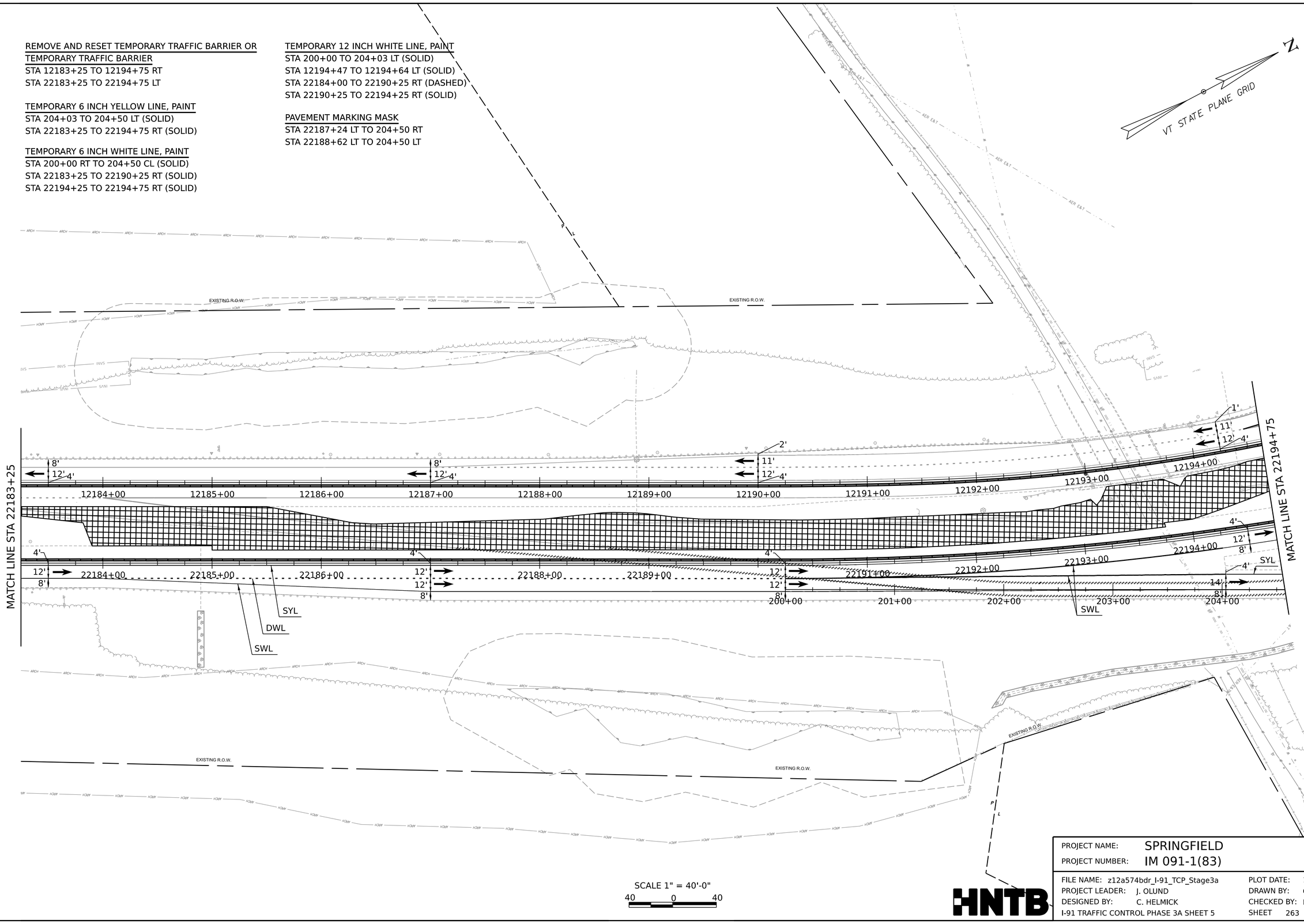
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12183+25 TO 12194+75 RT
STA 22183+25 TO 22194+75 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 204+03 TO 204+50 LT (SOLID)
STA 22183+25 TO 22194+75 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 200+00 RT TO 204+50 CL (SOLID)
STA 22183+25 TO 22190+25 RT (SOLID)
STA 22194+25 TO 22194+75 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 200+00 TO 204+03 LT (SOLID)
STA 12194+47 TO 12194+64 LT (SOLID)
STA 22184+00 TO 22190+25 RT (DASHED)
STA 22190+25 TO 22194+25 RT (SOLID)

PAVEMENT MARKING MASK
STA 22187+24 LT TO 204+50 RT
STA 22188+62 LT TO 204+50 LT



SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3a	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 5	SHEET 263 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12194+75 TO 12196+59 RT
STA 12194+95 TO 12196+55 LT
STA 12195+00 TO 12197+32 LT
STA 12202+00 TO 12206+50 RT
STA 22194+75 TO 22195+00 LT
STA 22199+89 TO 22206+50 LT

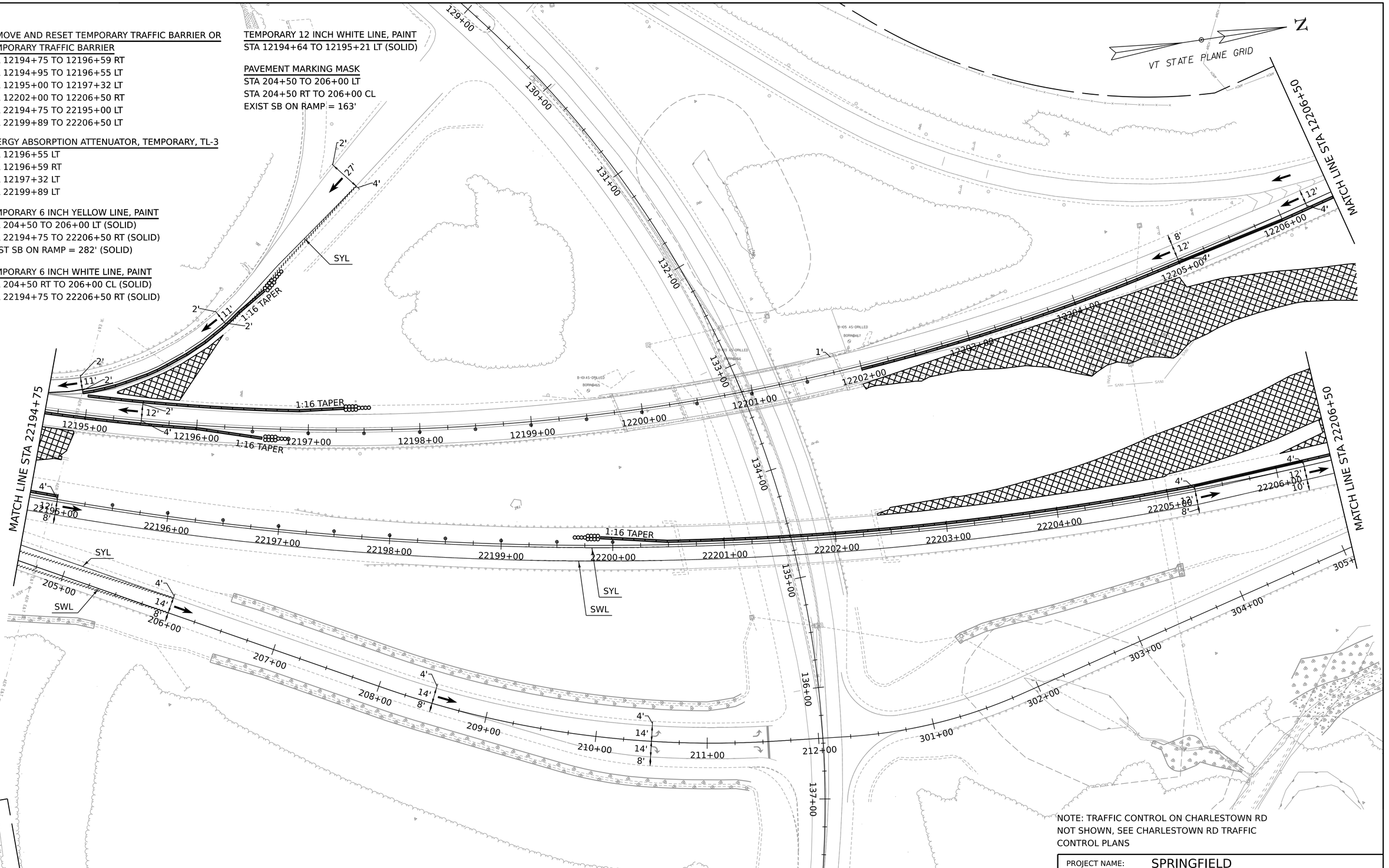
ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12196+55 LT
STA 12196+59 RT
STA 12197+32 LT
STA 22199+89 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 204+50 TO 206+00 LT (SOLID)
STA 22194+75 TO 22206+50 RT (SOLID)
EXIST SB ON RAMP = 282' (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 204+50 RT TO 206+00 CL (SOLID)
STA 22194+75 TO 22206+50 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12194+64 TO 12195+21 LT (SOLID)

PAVEMENT MARKING MASK
STA 204+50 TO 206+00 LT
STA 204+50 RT TO 206+00 CL
EXIST SB ON RAMP = 163'



NOTE: TRAFFIC CONTROL ON CHARLESTOWN RD NOT SHOWN, SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 6		SHEET	264 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12206+50 to 12215+80 RT
STA 22206+50 TO 22217+25 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12215+80 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22206+50 TO 22217+25 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22206+50 TO 22208+50 RT (SOLID)
STA 22213+18 TO 22217+25 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 309+58 TO 311+89 LT (SOLID)
STA 22208+50 TO 22213+18 RT (SOLID)
STA 22213+18 TO 22217+00 RT (DASHED)

VT STATE PLANE GRID
N

MATCH LINE STA 12206+50

12207+00 12208+00 12209+00 12210+00 12211+00 12212+00 12213+00 12214+00 12215+00 12216+00

1:16 TAPER

MATCH LINE STA 12216+25

MATCH LINE STA 22206+50

22207+00 22208+00 22209+00 22210+00 22211+00 22212+00 22213+00 22214+00 22215+00 22216+00 22217+00

SYL

306+00 307+00 308+00 309+00 310+00 311+00

SWL

DWL

SPENCER BROOK

MATCH LINE STA 22217+25

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 7		SHEET	265 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22217+25 TO 22218+41 LT

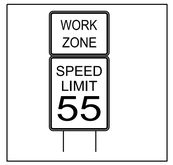
TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22217+25 TO 22222+00 RT (SOLID)
STA 22219+00 TO 22222+00 CL (DASHED)

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22217+25 TO 22218+41 CL (SOLID)
STA 22217+25 TO 22219+00 RT (DASHED)
STA 22218+25 TO 22221+50 LT (SOLID)

PAVEMENT MARKING MASK
STA 22221+50 TO 22222+00 CL
STA 22221+50 TO 22222+00 RT

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

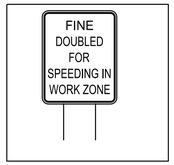
STA 12229+00 RT
ARROW BOARD

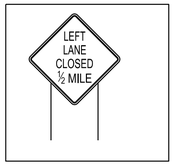
STA 12227+00 RT/LT


STA 12232+00 RT


STA 12232+00 LT

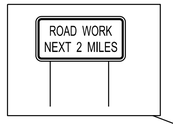

STA 12237+00 RT/LT


STA 12242+00 RT/LT


STA 12247+00 RT/LT


STA 12252+00 RT/LT


STA 12278+40 RT/LT


STA 12222+00 LT


VT STATE PLANE GRID
N

MATCH LINE STA 12216+25

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

10'
12'
4'
10'
12'
4'
10'
12'

12217+00
12218+00
12219+00
12220+00
12221+00
12222+00
12223+00
12224+00
12225+00
12226+00
12227+00
12228+00

SPENCER BROOK

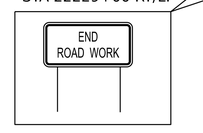
MATCH LINE STA 22217+25

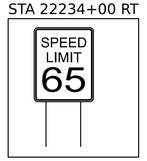
END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

4'
12'
12'
10'
4'
12'
12'
10'
4'
12'
12'
10'

22218+00
22220+00
22221+00
22222+00
22223+00
22224+00
22225+00
22226+00
22227+00
22228+00

SYL
DWL
SWL

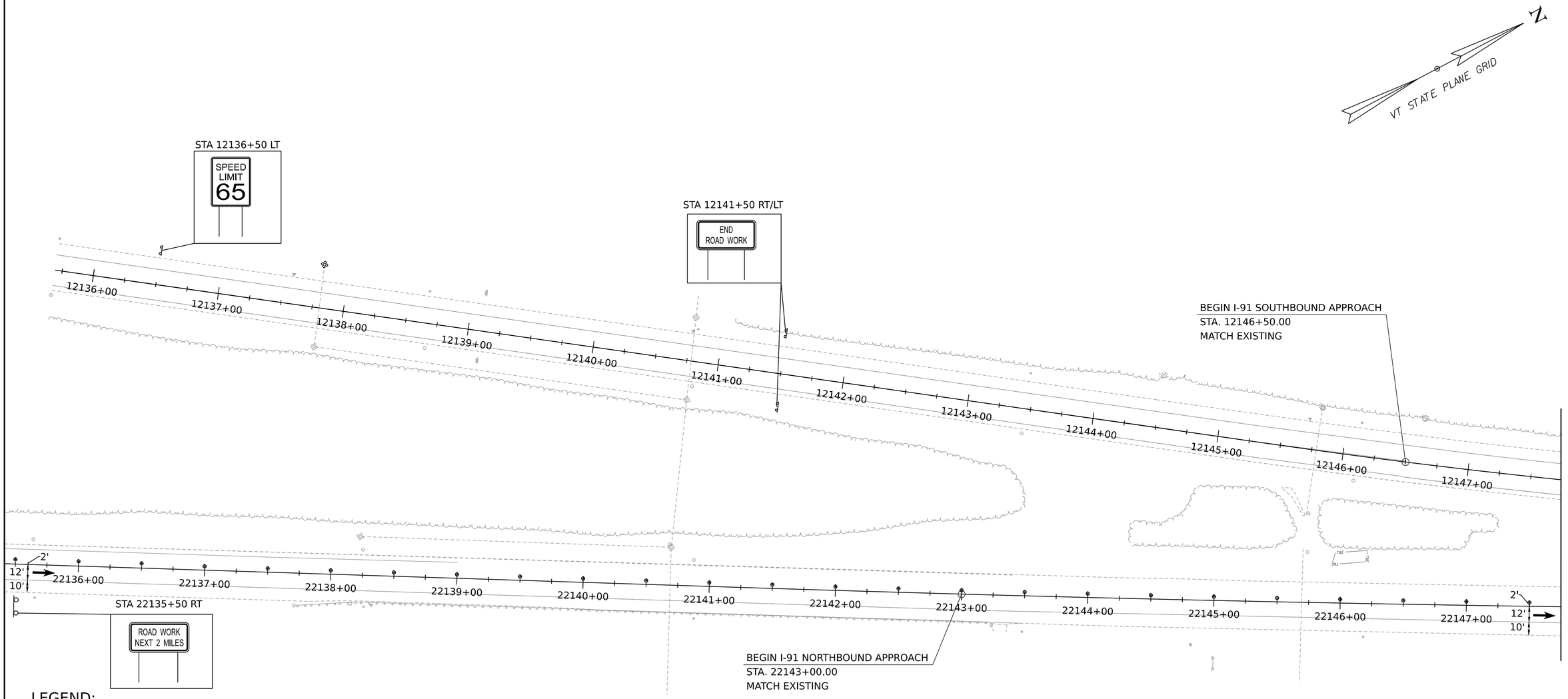
STA 22229+00 RT/LT


STA 22234+00 RT


SCALE 1" = 40'-0"
40 0 40

HNTB

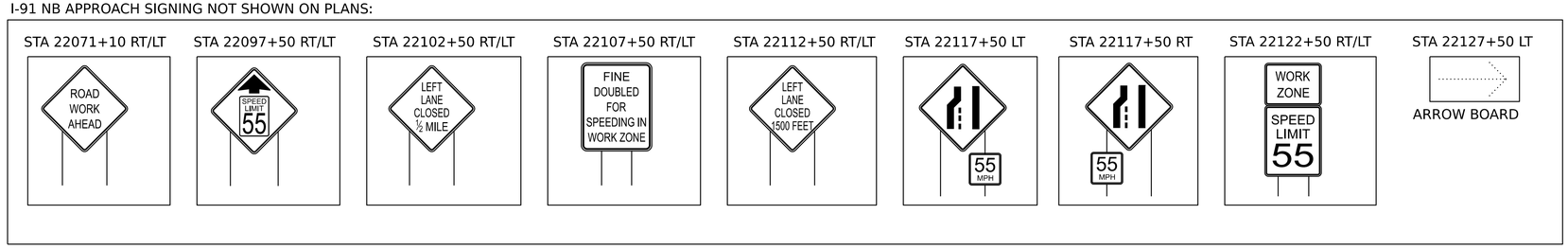
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3A SHEET 8		SHEET	266 OF 922



LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL — SOLID WHITE LINE
- SYL — SOLID YELLOW LINE
- DWL — DOTTED WHITE LINE
- BWL — BROKEN WHITE LINE
- TRAFFIC FLOW ARROW
- FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:



SCALE 1" = 40'-0"
40 0 40

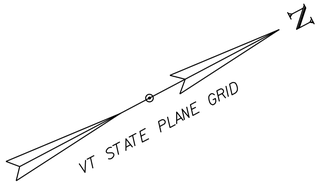
HNTB

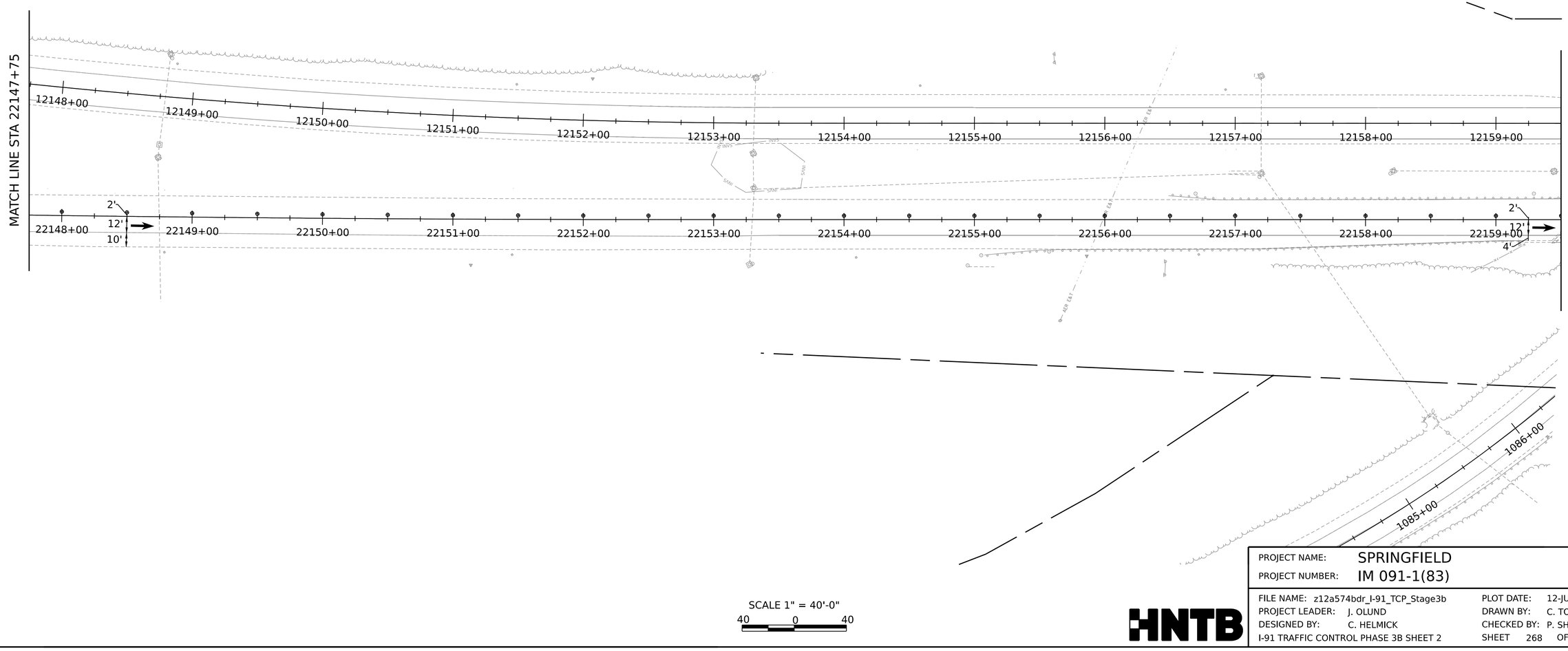
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 1		SHEET	267 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22159+00 CL TO 22159+50 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22159+00 TO 22159+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 22159+00 CL TO 22159+50 LT
STA 22159+00 TO 22159+00 RT





SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage3b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 2		SHEET	268 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12162+20 TO 12164+00 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12164+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22159+50 CL TO 22171+50 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22159+50 TO 22171+50 RT (SOLID)

PAVEMENT MARKING MASK
STA 22159+50 RT TO 12171+50 RT
STA 22159+50 LT TO 12171+50 RT
STA 22168+50 TO 22171+50 CL
STA 22168+50 TO 22171+50 RT

VT STATE PLANE GRID

I-91 PHASE 3B CROSSOVER-S
CURVE (8964+72)
DELTA = 05°26'15"
D = 00°59'40"
R = 5762.00'
T = 273.62'
L = 546.83'
E = 6.49'

EXISTING R.O.W.

PC 8961+88.13
PI 8964+71.75
PT 8967+44.96
PC 8968+30.29

I-91 PHASE 3B CROSSOVER-S

N33°15'37"E

MATCH LINE STA 22159+50

MATCH LINE STA 22171+50

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 3		SHEET	269 OF 922

HNTB

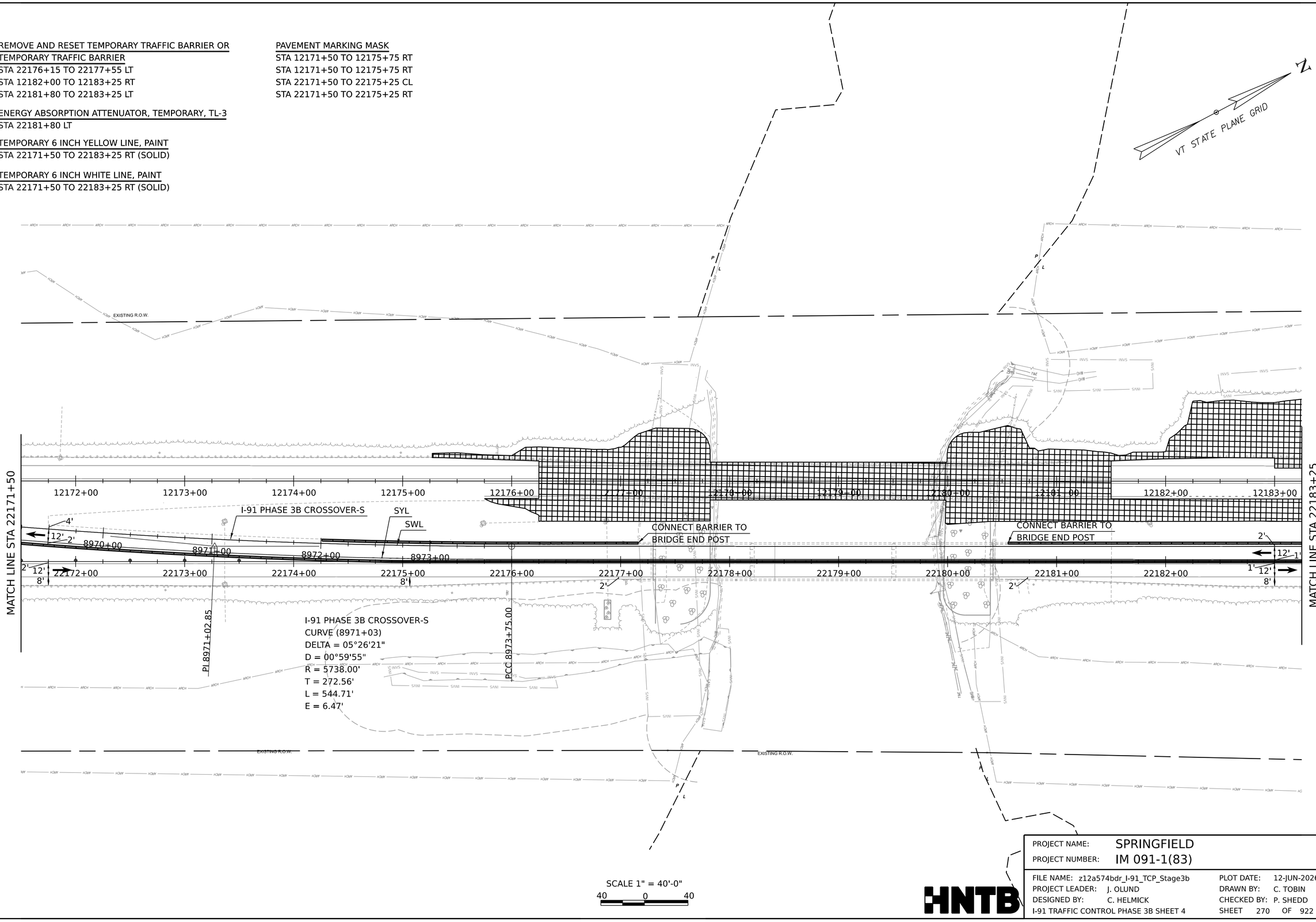
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 22176+15 TO 22177+55 LT
STA 12182+00 TO 12183+25 RT
STA 22181+80 TO 22183+25 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22181+80 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22171+50 TO 22183+25 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22171+50 TO 22183+25 RT (SOLID)

PAVEMENT MARKING MASK
STA 12171+50 TO 12175+75 RT
STA 12171+50 TO 12175+75 RT
STA 22171+50 TO 22175+25 CL
STA 22171+50 TO 22175+25 RT



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3b	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 4	SHEET 270 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12183+25 TO 12194+75 RT
STA 22183+25 TO 22194+75 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 204+03 TO 204+50 LT (SOLID)
STA 22183+25 TO 22194+75 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 200+00 RT TO 204+50 CL (SOLID)
STA 22183+25 TO 22190+25 RT (SOLID)
STA 22194+25 TO 22194+75 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 200+00 TO 204+03 LT (SOLID)
STA 12194+47 TO 12194+64 LT (SOLID)
STA 22184+00 TO 22190+25 RT (DASHED)
STA 22190+25 TO 22194+25 RT (SOLID)

PAVEMENT MARKING MASK
STA 22187+24 LT TO 204+50 RT
STA 22188+62 LT TO 204+50 LT

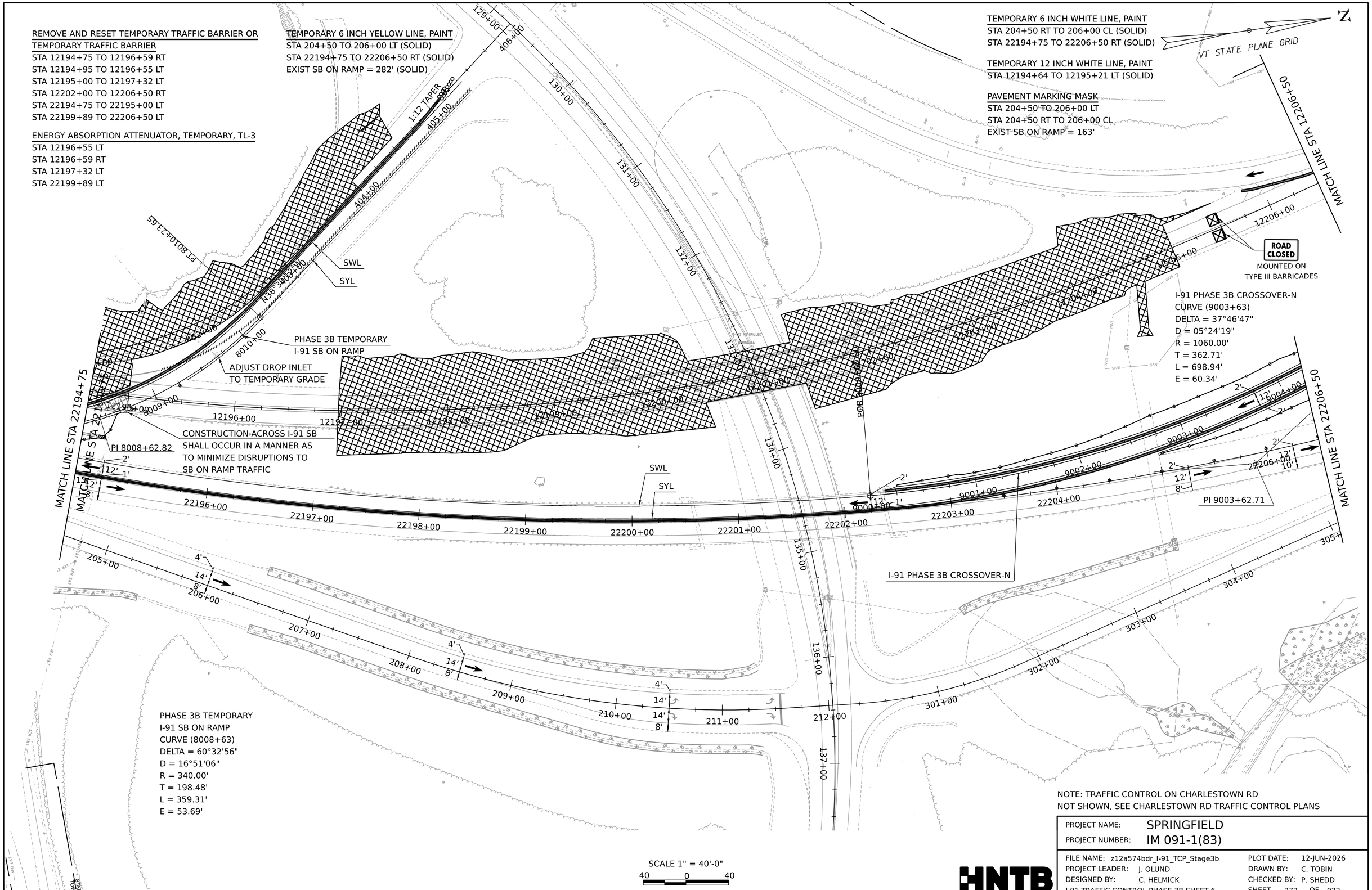
N
VT STATE PLANE GRID

EXISTING R.O.W.
EXISTING R.O.W.
PC 8003+77.00
PCC 8006+64.34
MATCH LINE STA 22183+25
MATCH LINE STA 22194+75
DWL
SWL
SYL
N27°49'13"E
2'
1:16 TAPER
12'
1'
8'
7999+00
8000+00
8001+00
8002+00
8003+00
8004+00
8005+00
8006+00
8007+00
4'
14'
ADJUST DROP INLET TO TEMPORARY GRADE
PHASE 3B TEMPORARY I-91 SB ON RAMP
PHASE 3B TEMPORARY
I-91 SB ON RAMP
CURVE (8005+21)
DELTA = 05°46'29"
D = 02°00'35"
R = 2851.00'
T = 143.79'
L = 287.34'
E = 3.62'
PI 8005+20.79
ADJUST DROP INLET TO TEMPORARY GRADE
TEMPORARY 40' X 12" CPEP
EXISTING R.O.W.
EXISTING R.O.W.
EXISTING R.O.W.

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 5		SHEET	271 OF 922



NOTE: TRAFFIC CONTROL ON CHARLESTOWN RD
NOT SHOWN, SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage3b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 6		SHEET	272 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12206+50 to 12215+80 RT
STA 22206+50 TO 22217+25 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12215+80 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22206+50 TO 22217+25 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22206+50 TO 22208+50 RT (SOLID)
STA 22213+18 TO 22217+25 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 309+58 TO 311+89 LT (SOLID)
STA 22208+50 TO 22213+18 RT (SOLID)
STA 22213+18 TO 22217+00 RT (DASHED)

VT STATE PLANE GRID
N

MATCH LINE STA 12206+50

PI 9009+72.64

I-91 PHASE 3B CROSSOVER-N
CURVE (9009+73)
DELTA = 15°51'38"
D = 05°24'19"
R = 1060.00'
T = 147.66'
L = 293.43'
E = 10.23'

STA 12212+25 RT
EXIT 7

I-91 PHASE 3B CROSSOVER-N
CURVE (9014+00)
DELTA = 02°16'38"
D = 00°50'24"
R = 6820.00'
T = 135.55'
L = 271.06'
E = 1.35'

PI 9013+99.56

SWL
N10°05'48"W
CONNECT BARRIER TO GUARDRAIL

PT 9006+98.94
SWL
SYL
N33°57'26"W
PT 9011+18.41
PC 9012+64.01
PC 9008+24.99
TEMPORARY 30' X 18" CMP CULVERT EXTENSION
TEMPORARY 105' X 18" CPEP
I-91 PHASE 3B CROSSOVER-N

MATCH LINE STA 22206+50
BWL
SYL

MATCH LINE STA 12216+25
MATCH LINE STA 22217+25

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage3b	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 7	SHEET 273 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 22217+25 TO 22218+41 LT

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 22217+25 TO 22222+00 RT (SOLID)
STA 22219+00 TO 22222+00 CL (DASHED)

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 22217+25 TO 22218+41 CL (SOLID)
STA 22217+25 TO 22219+00 RT (DASHED)
STA 22218+25 TO 22221+50 LT (SOLID)

PAVEMENT MARKING MASK
STA 22221+50 TO 22222+00 CL
STA 22221+50 TO 22222+00 RT

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

STA 12229+00 RT
ARROW BOARD

STA 12227+00 RT/LT
WORK ZONE
SPEED LIMIT 55

STA 12232+00 RT
55 MPH

STA 12232+00 LT
55 MPH

STA 12237+00 RT/LT
RIGHT LANE CLOSED 1500 FEET

STA 12242+00 RT/LT
FINE DOUBLED FOR SPEEDING IN WORK ZONE

STA 12247+00 RT/LT
LEFT LANE CLOSED ½ MILE

STA 12252+00 RT/LT
SPEED LIMIT 55

STA 12278+40 RT/LT
ROAD WORK AHEAD

STA 22118+00 LT

STA 12222+00 LT
ROAD WORK NEXT 2 MILES

VT STATE PLANE GRID
N

STA 12226+00 LT
EXIT OPEN

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12216+25

MATCH LINE STA 12216+25

PT 9015+35.08

SWL

SYL

2'
12'
4'
2'
12'
4'

12218+00
12219+00
12220+00
12222+00
12223+00
12224+00
12225+00
12226+00
12227+00
12228+00

SPENCER BROOK

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

MATCH LINE STA 22217+25

MATCH LINE STA 22217+25

BWL

SYL

4'
12'
12'
12'
10'
4'
12'
12'
12'
10'
4'
12'
12'
10'

22218+00
22219+00
22220+00
22221+00
22222+00
22223+00
22224+00
22225+00
22226+00
22227+00
22228+00

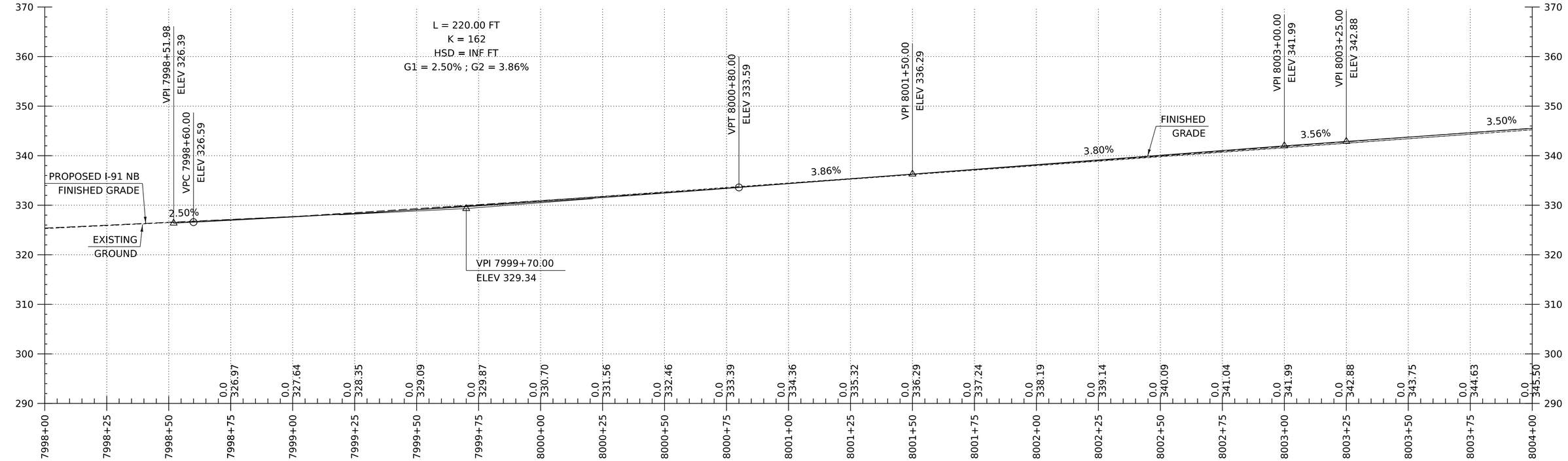
STA 22229+00 RT/LT
END ROAD WORK

STA 22234+00 RT
SPEED LIMIT 65

SCALE 1" = 40'-0"
40 0 40

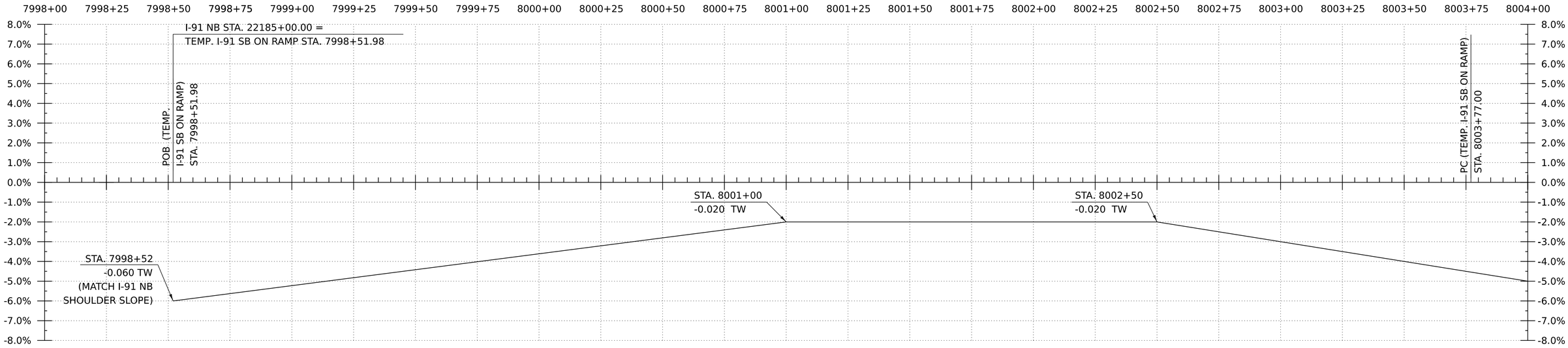
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage3b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 3B SHEET 8		SHEET	274 OF 922



PHASE 3B TEMP. I-91 SB ON RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



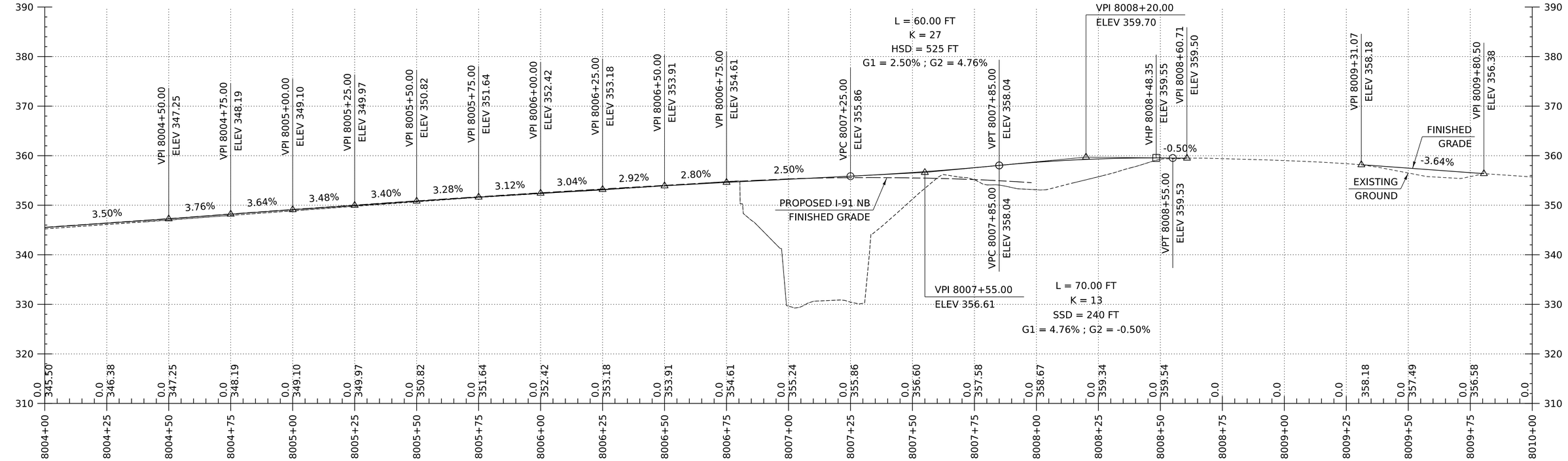
PHASE 3B TEMP. I-91 SB ON RAMP - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

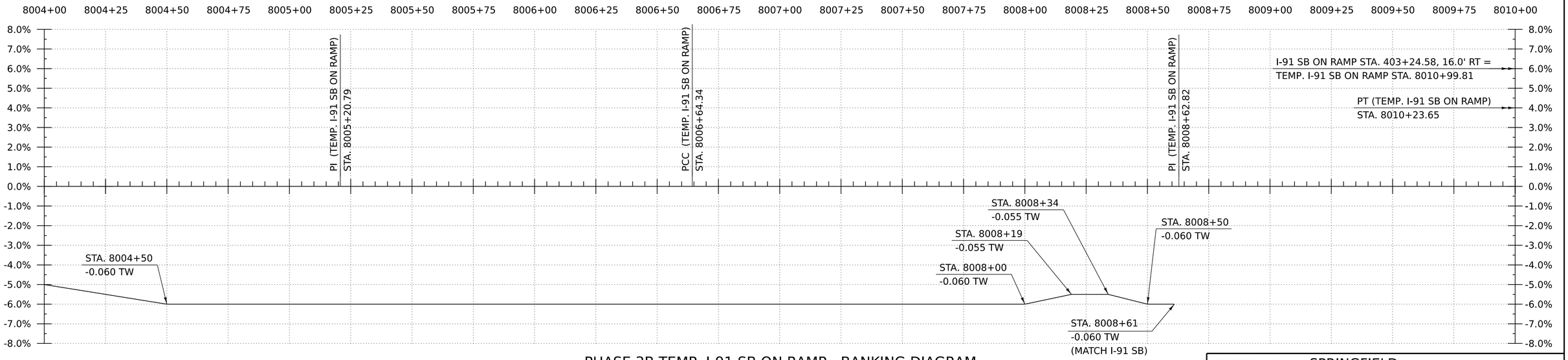
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pro_SB_Xover_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP PROFILE 1		SHEET	275 OF 922



PHASE 3B TEMP. I-91 SB ON RAMP PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



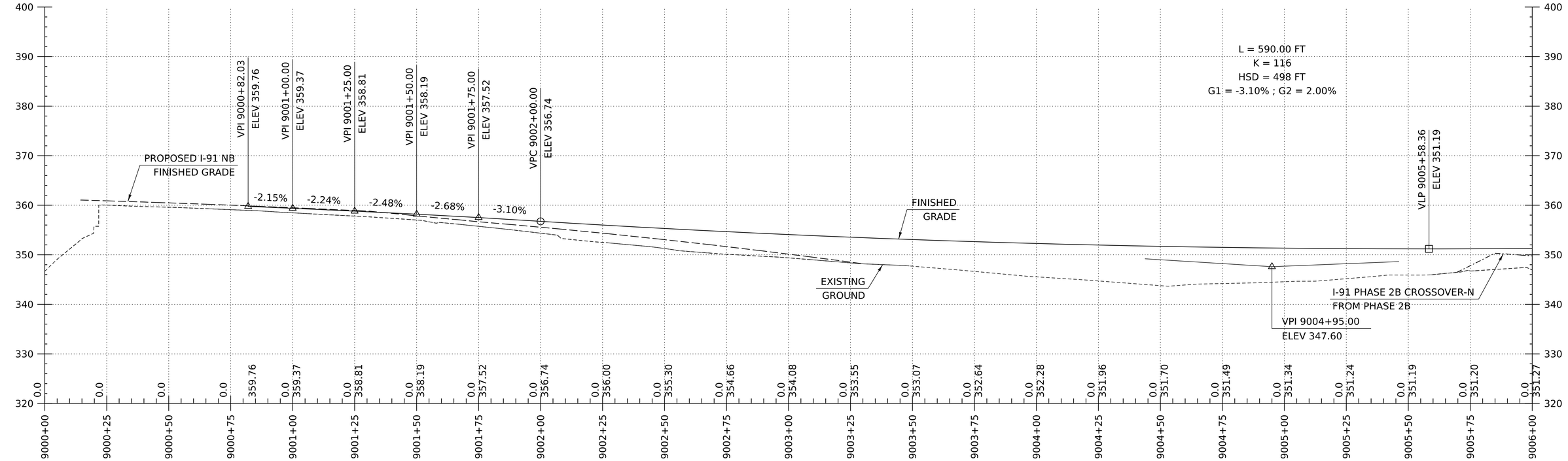
PHASE 3B TEMP. I-91 SB ON RAMP - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

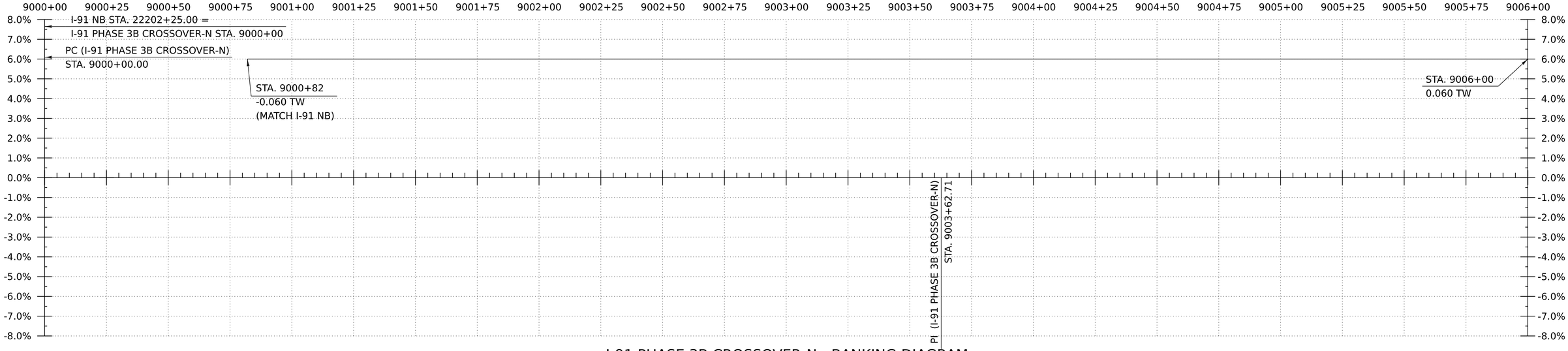
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_SB_Xover_On_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP PROFILE 2	SHEET 276 OF 922



I-91 PHASE 3B CROSSOVER-N PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



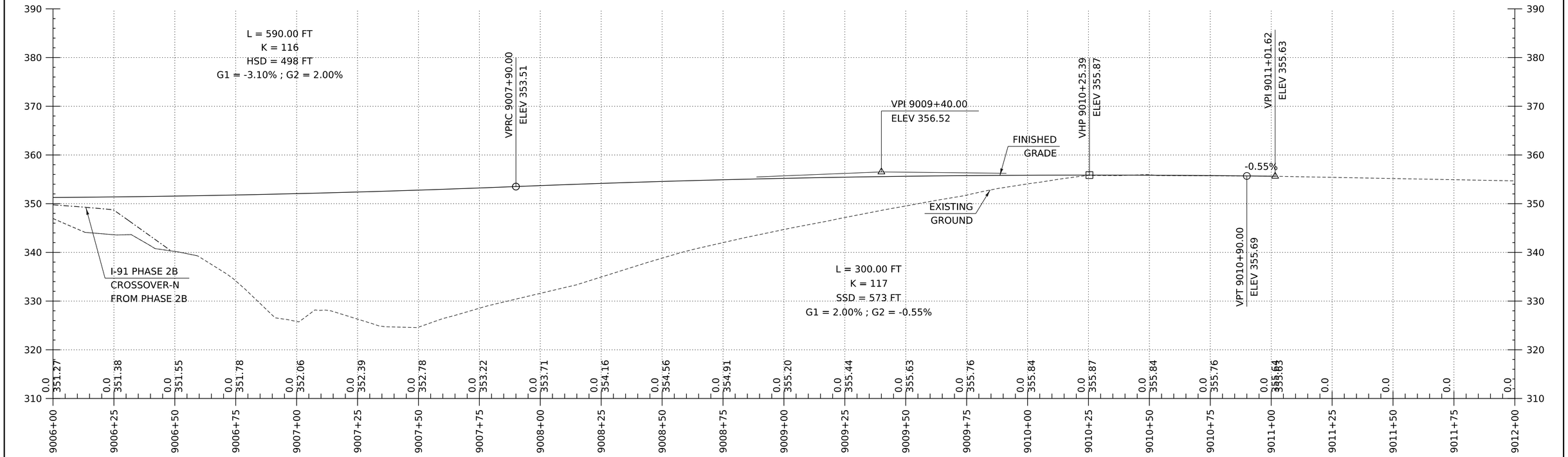
I-91 PHASE 3B CROSSOVER-N - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

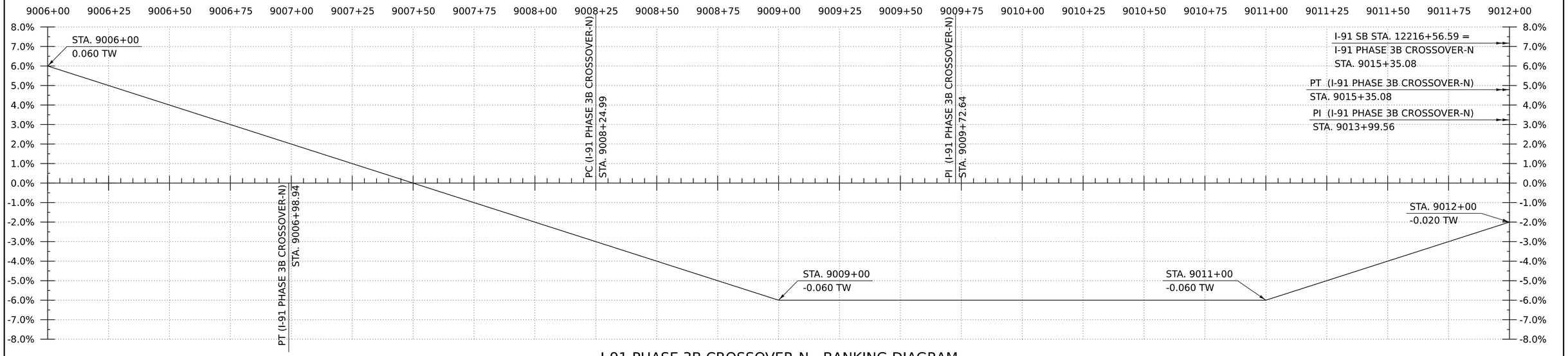
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_SB_Xover_N.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 3B CROSSOVER-N PROFILE 1	SHEET 277 OF 922



I-91 PHASE 3B CROSSOVER-N PROFILE

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"



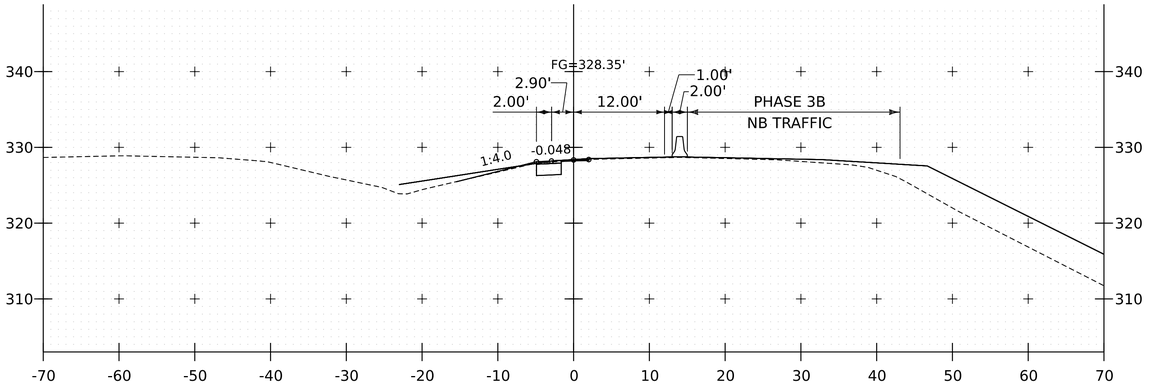
I-91 PHASE 3B CROSSOVER-N - BANKING DIAGRAM

HORIZ:1"=20'
NO VERTICAL SCALE

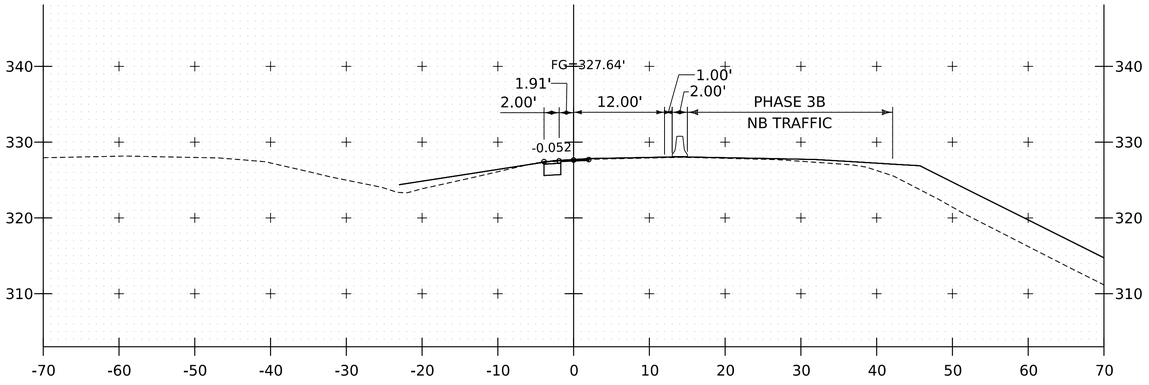
THE GRADES SHOWN TO THE TENTH ARE THE EXISTING GROUND ELEVATIONS ALONG THE NEW ALIGNMENT.
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

HNTB

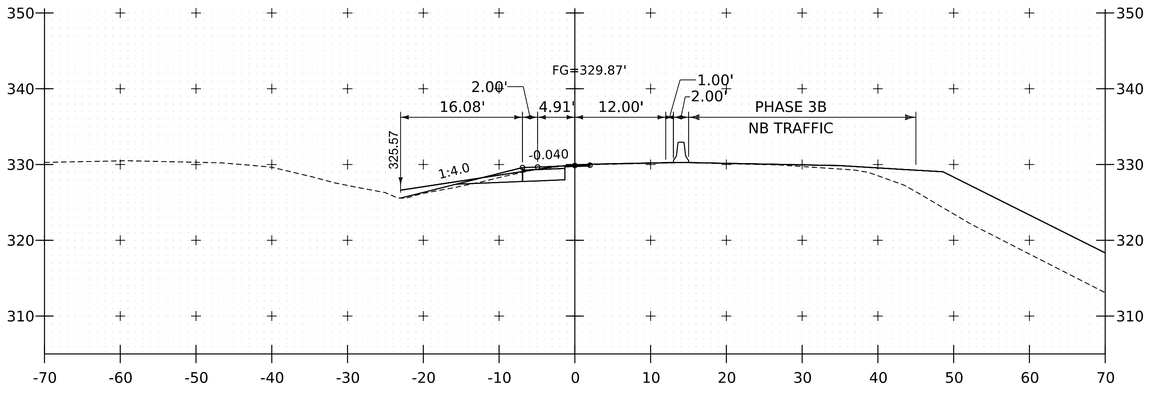
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pro_SB_Xover_N.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 3B CROSSOVER-N PROFILE 2	SHEET 278 OF 922



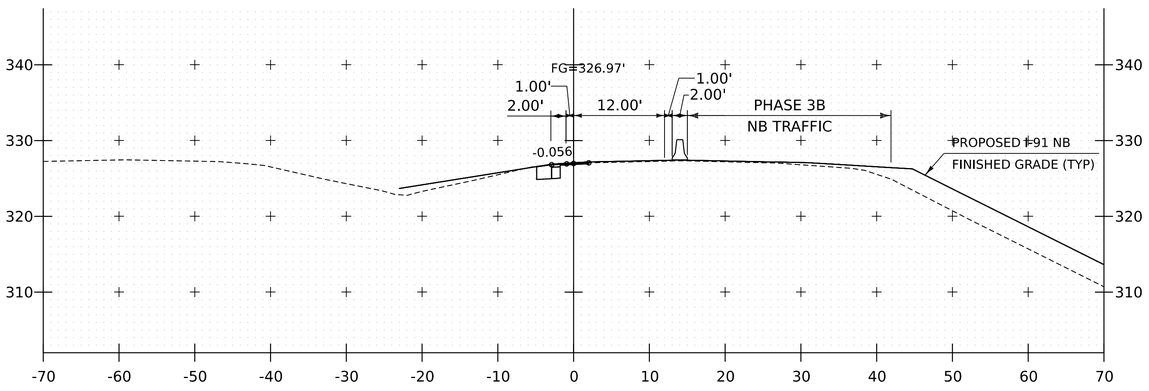
7999+25



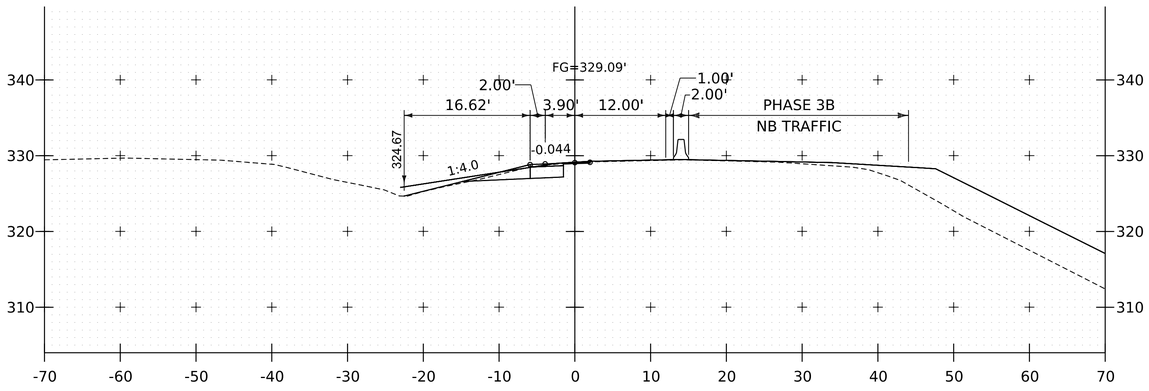
7999+00



7999+75



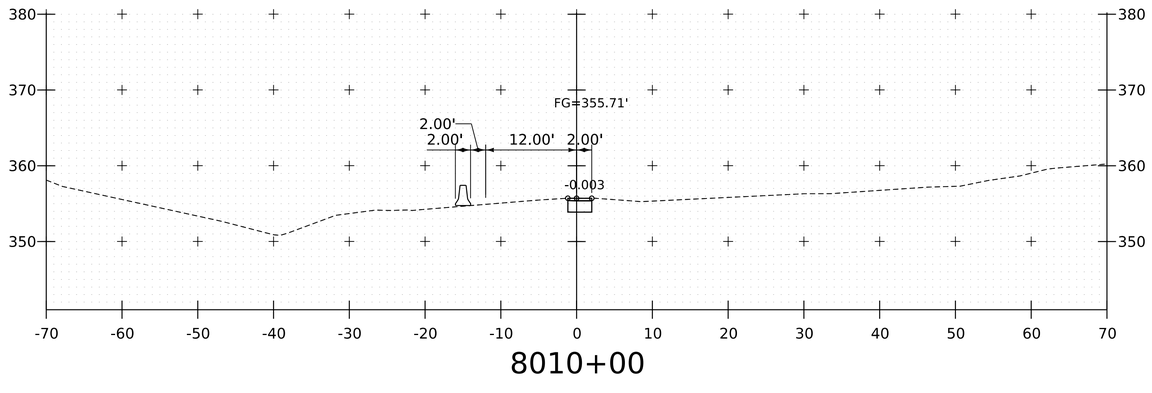
7998+75



7999+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 1		SHEET	279 OF 922

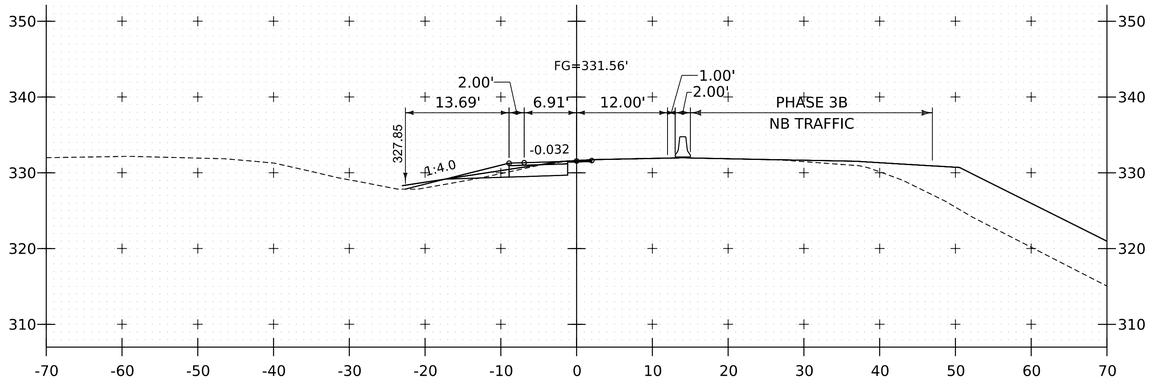


8010+00

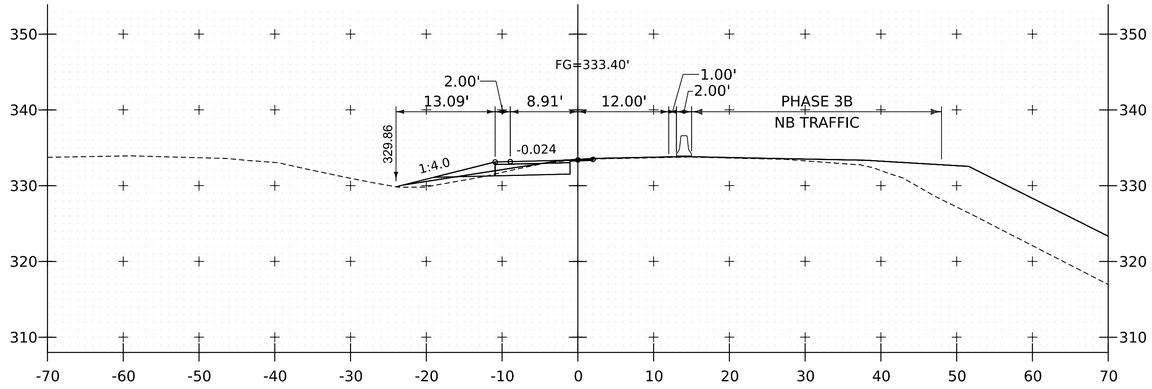
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 10		SHEET	280 OF 922

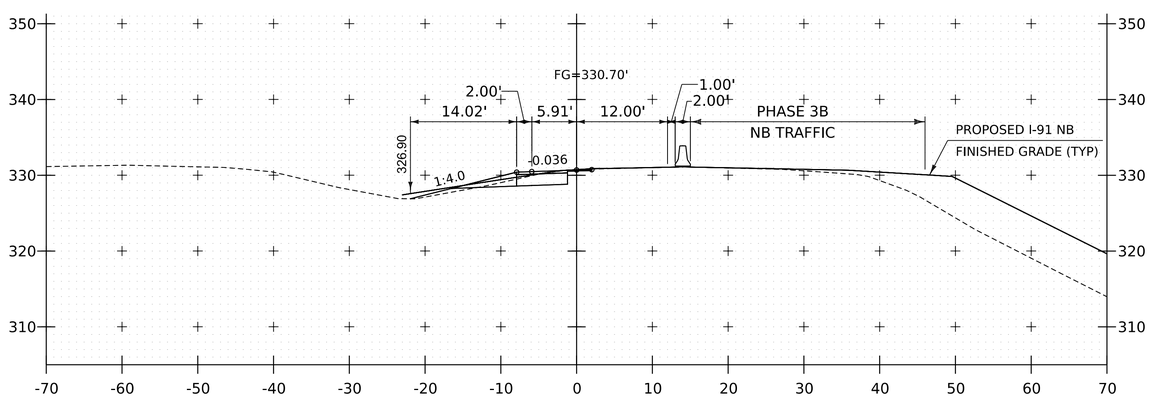
HNTB



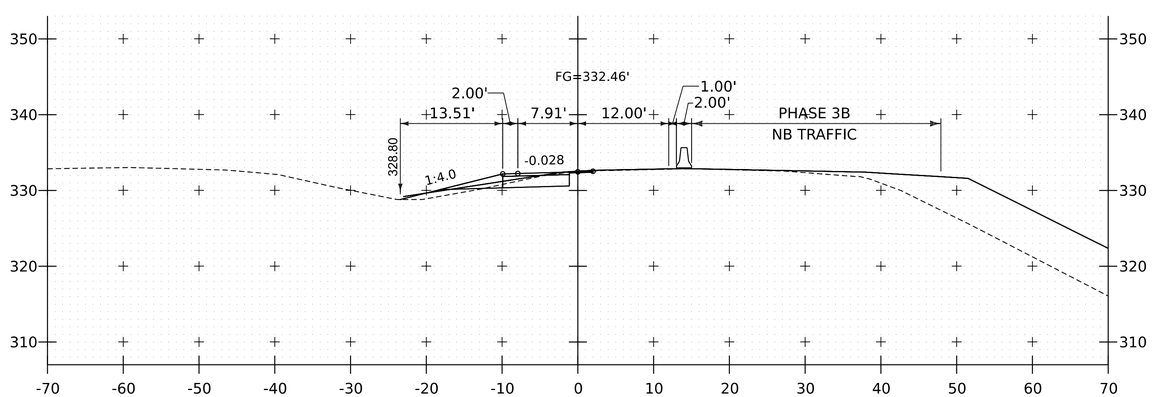
8000+25



8000+75



8000+00

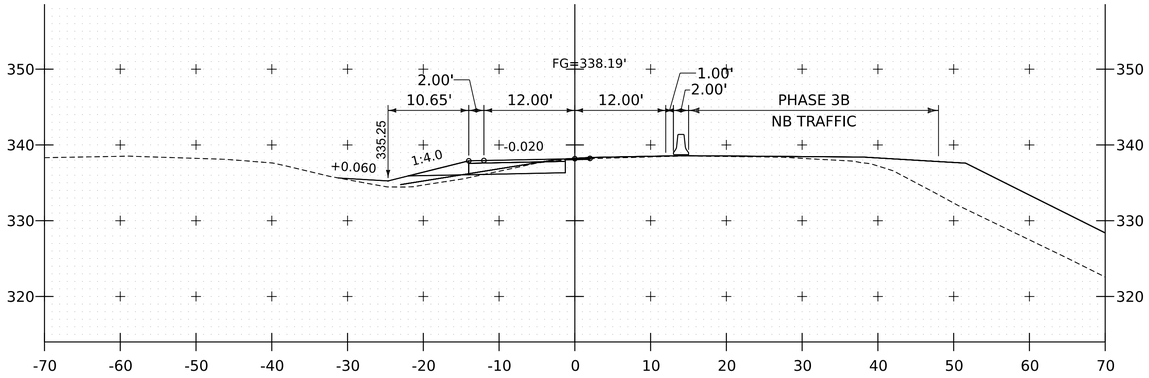


8000+50

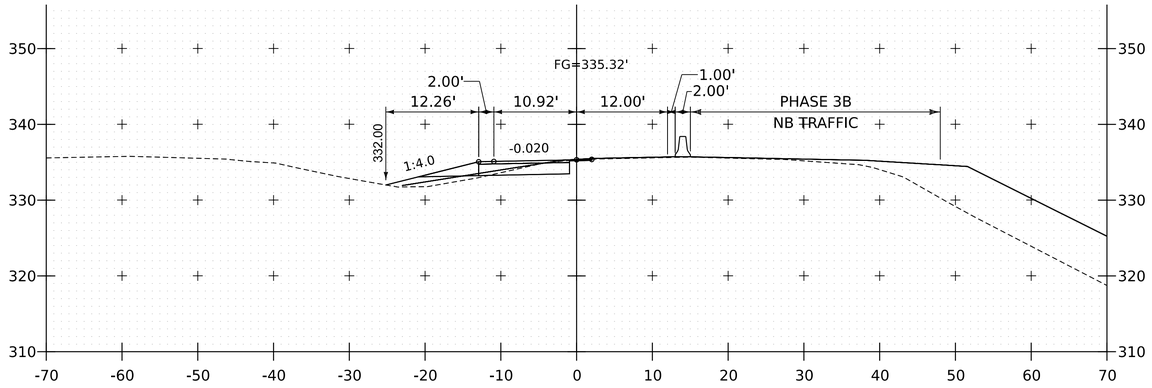
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 2		SHEET	281 OF 922

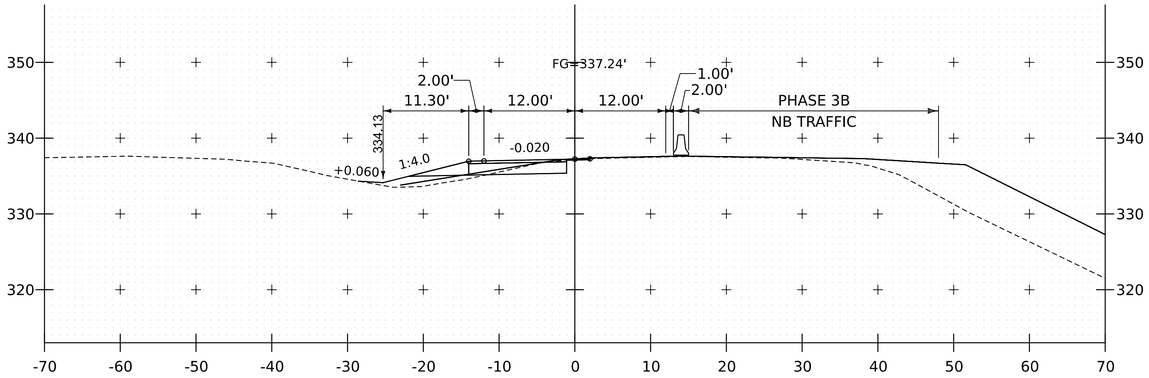
HNTB



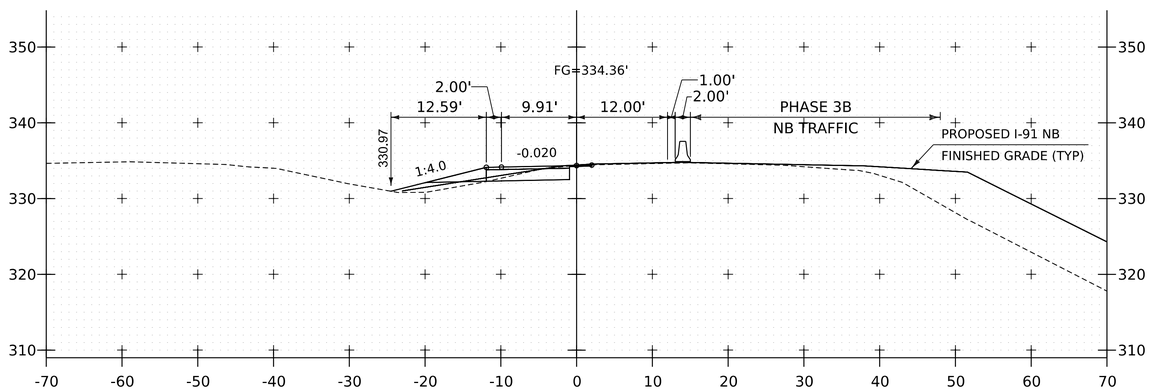
8002+00



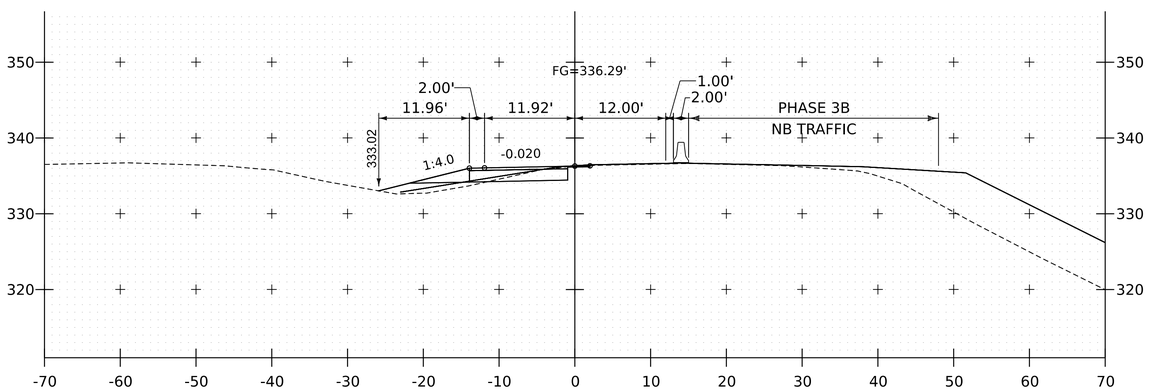
8001+25



8001+75



8001+00

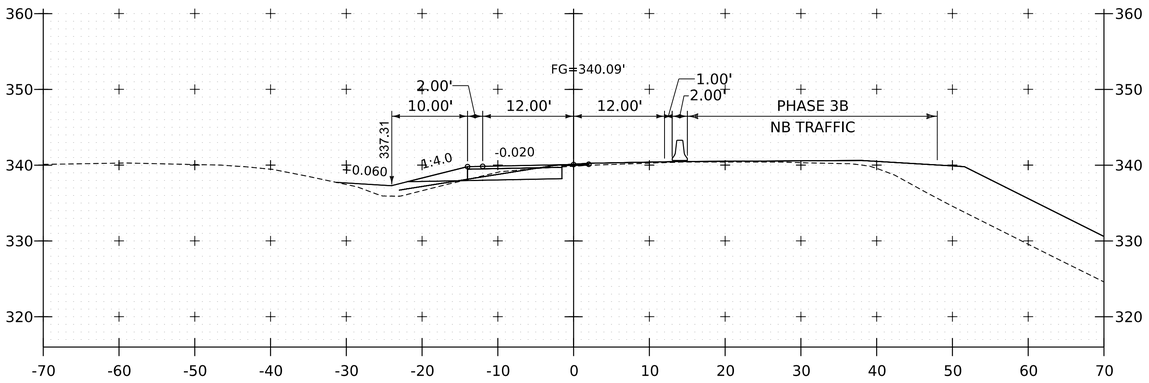


8001+50

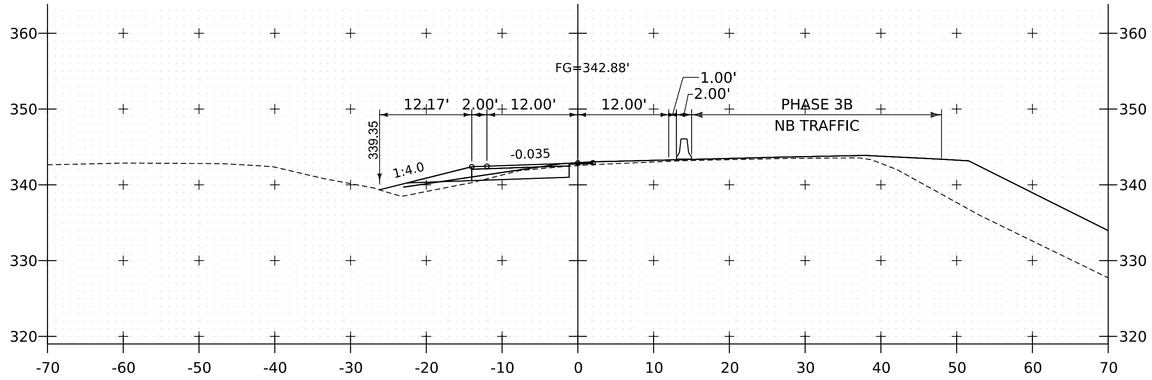
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 3		SHEET	282 OF 922

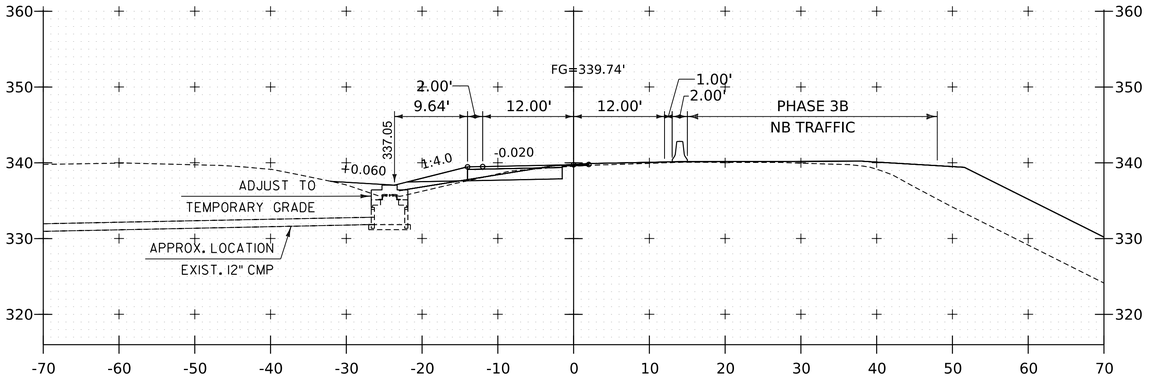
HNTB



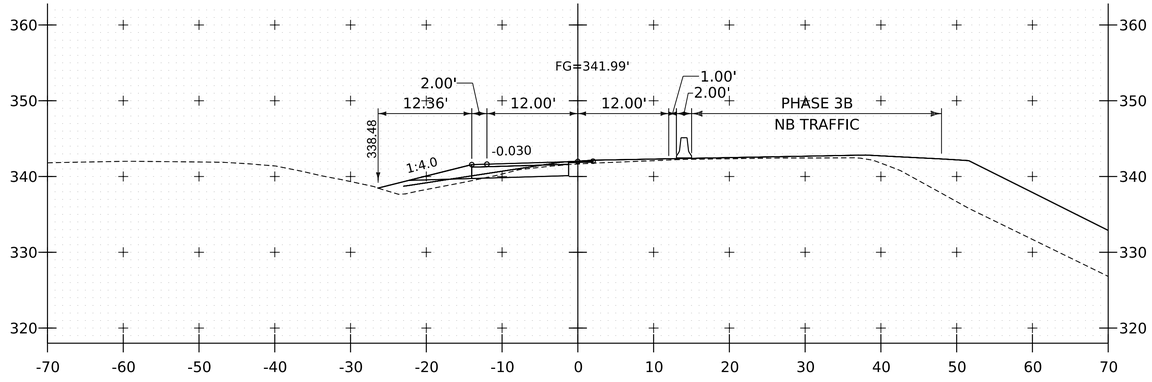
8002+50



8003+25



8002+41



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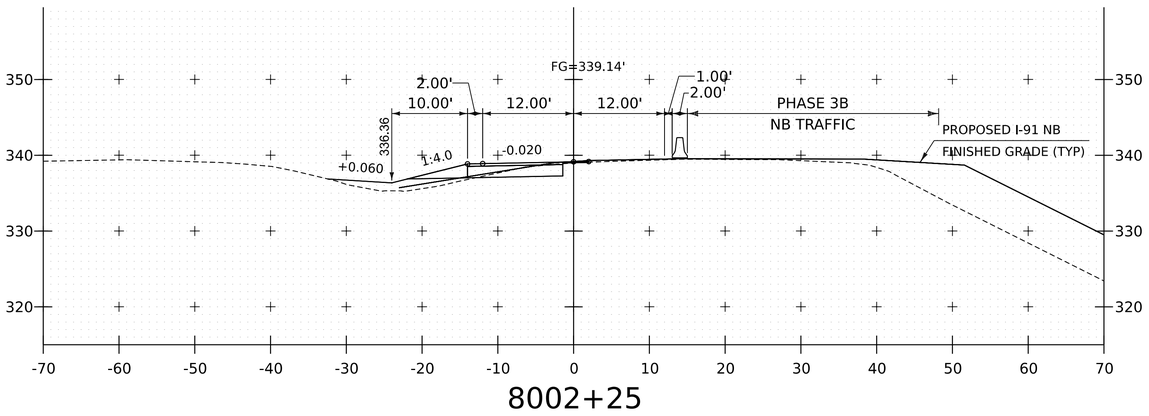

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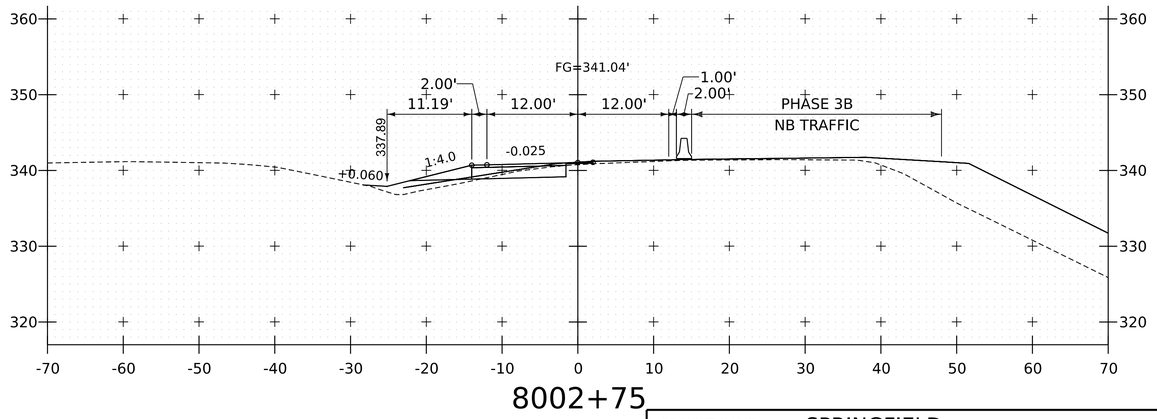
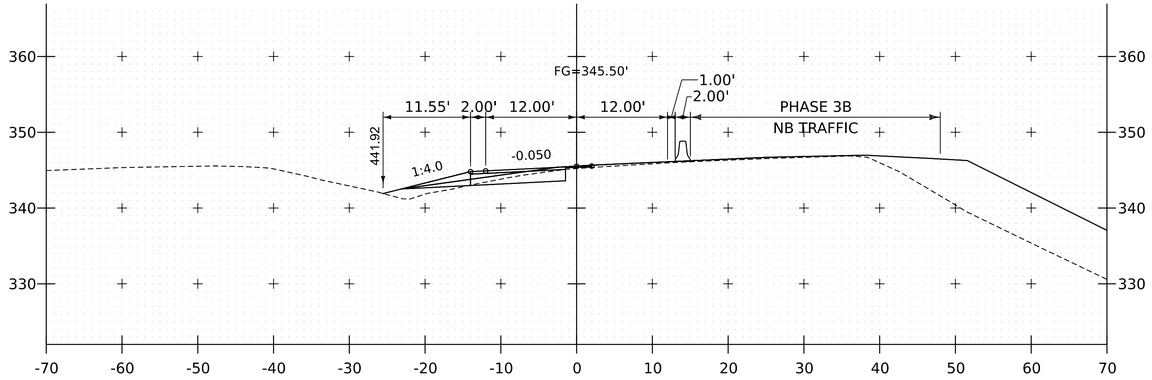


8002+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 4		SHEET	283 OF 922

HNTB



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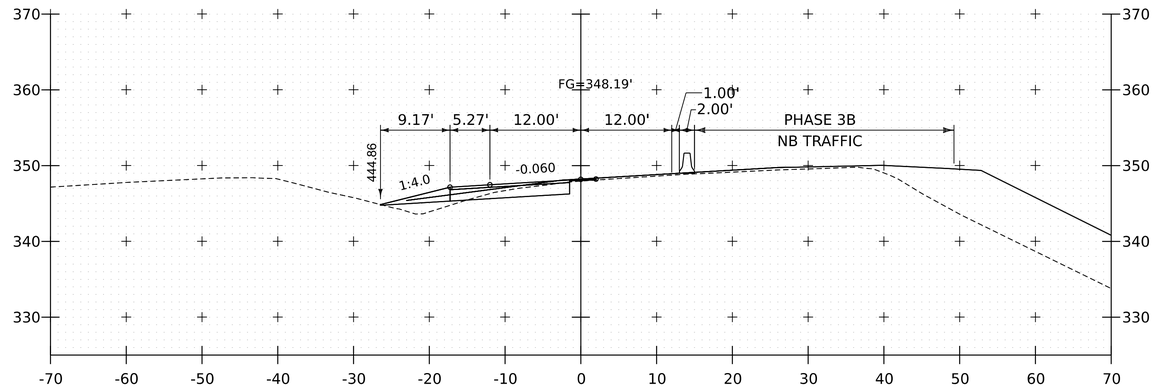

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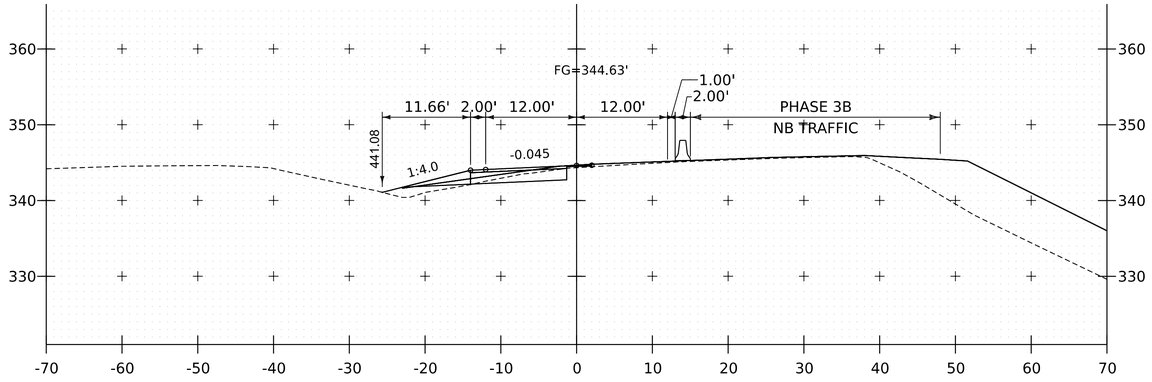

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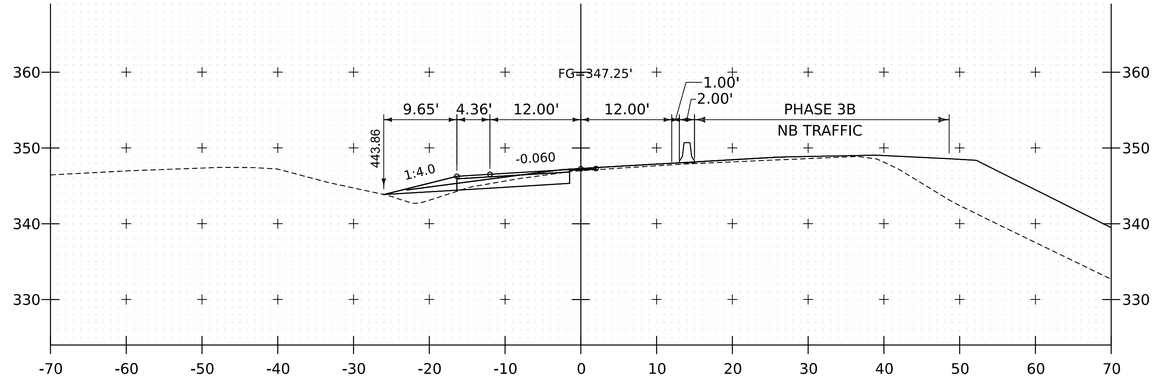

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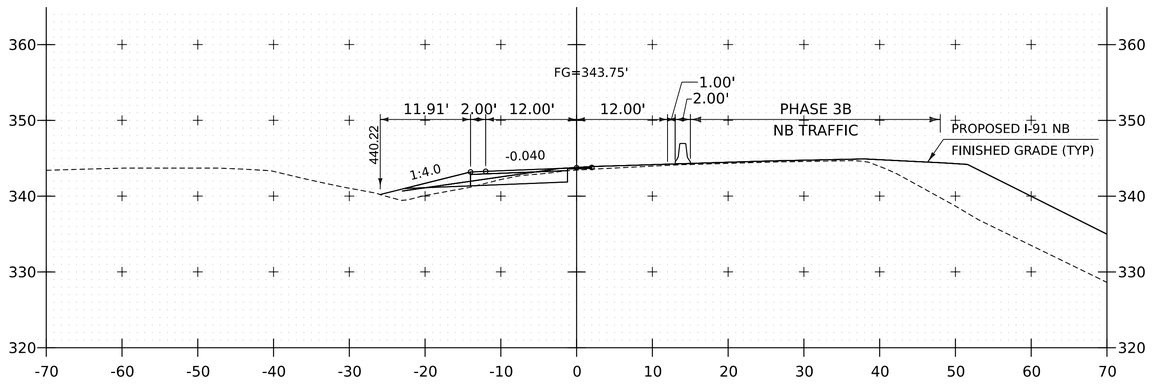

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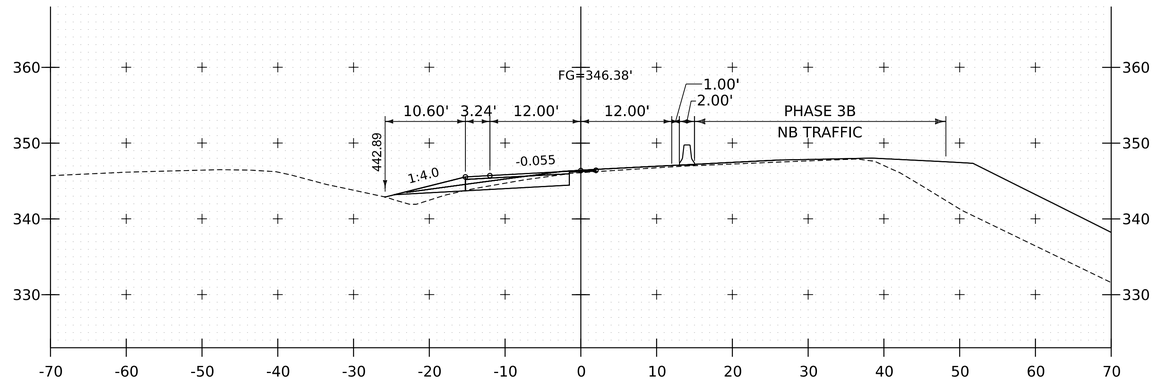
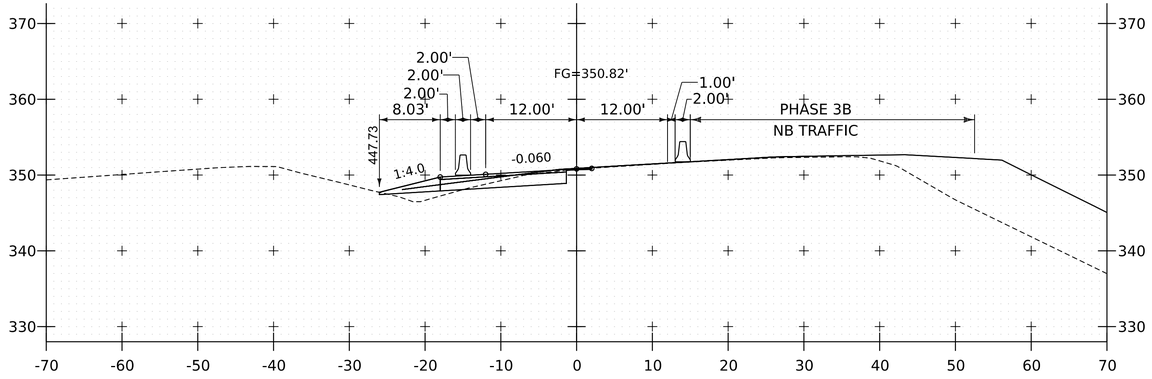


8004+25

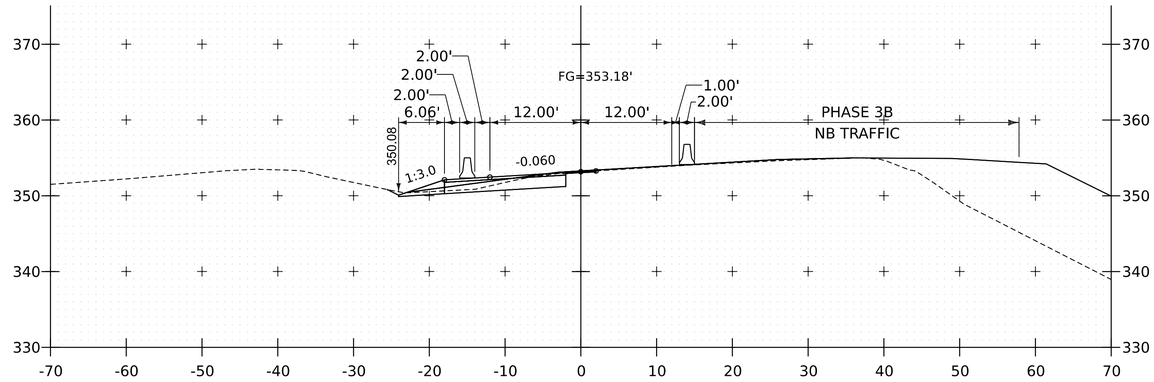
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 5		SHEET	284 OF 922

HNTB



8005+50



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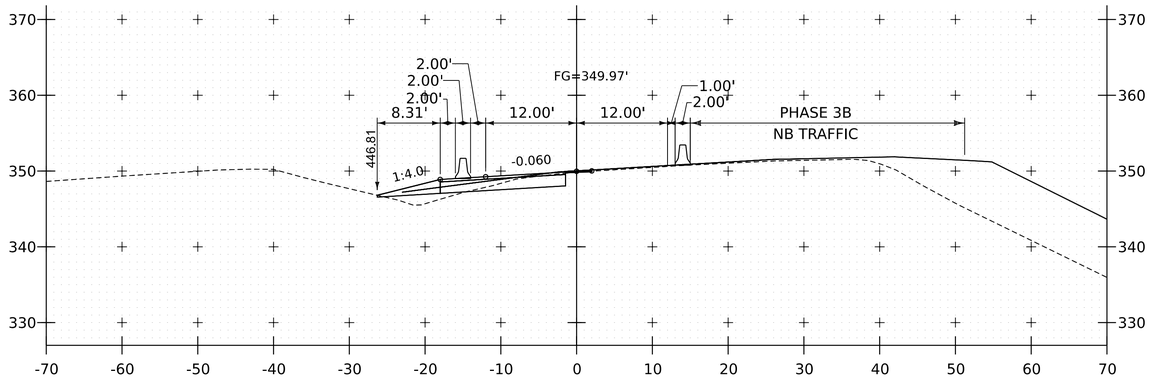

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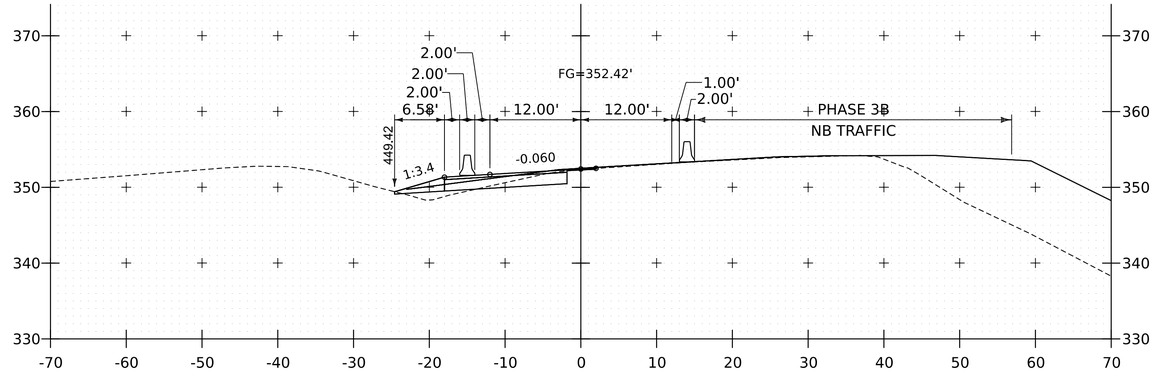

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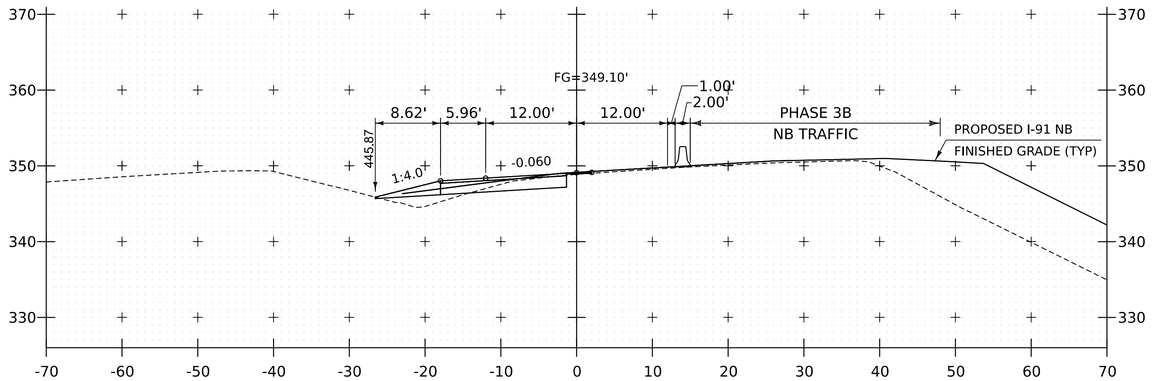

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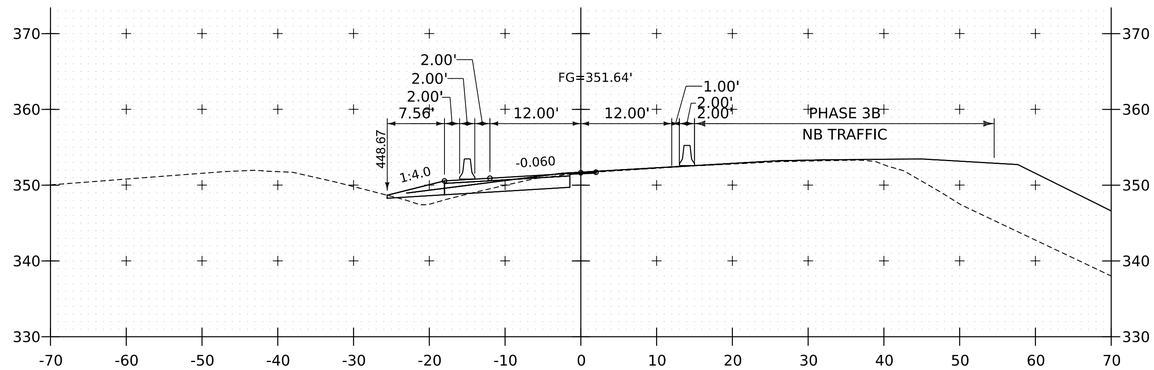
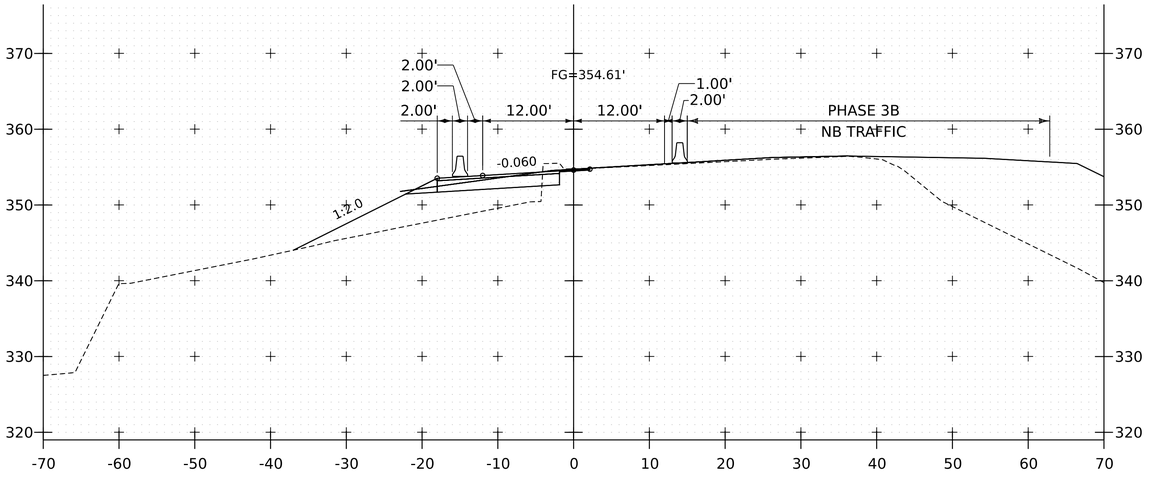


8005+75

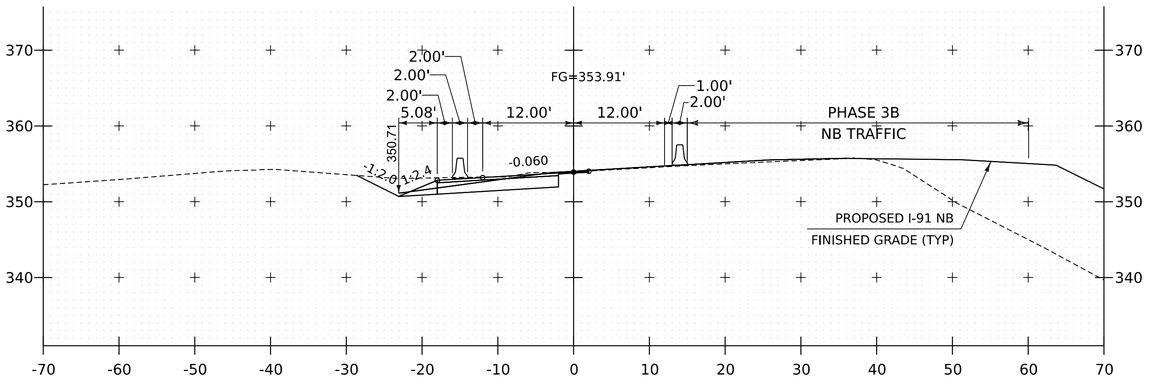
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 6		SHEET	285 OF 922

HNTB



8006+75



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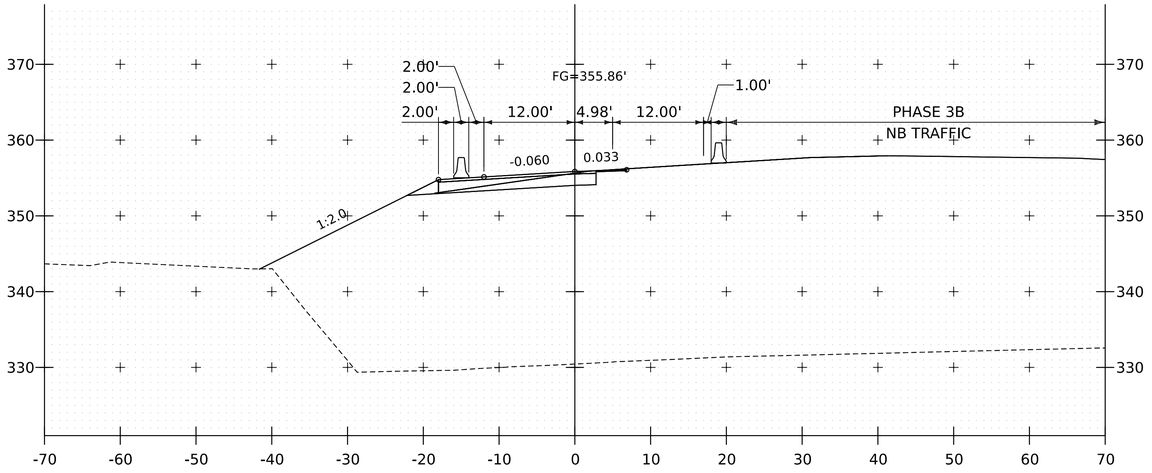

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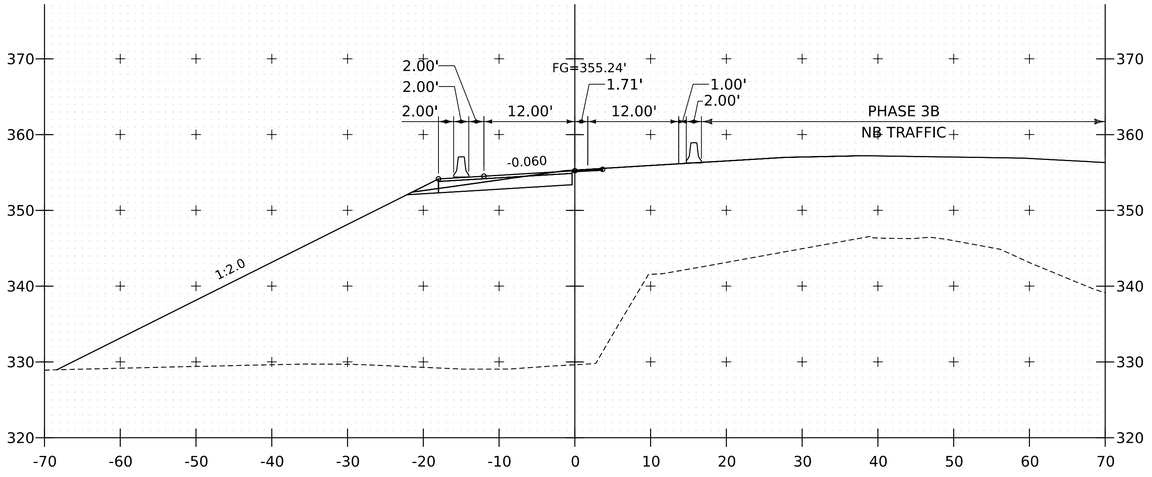
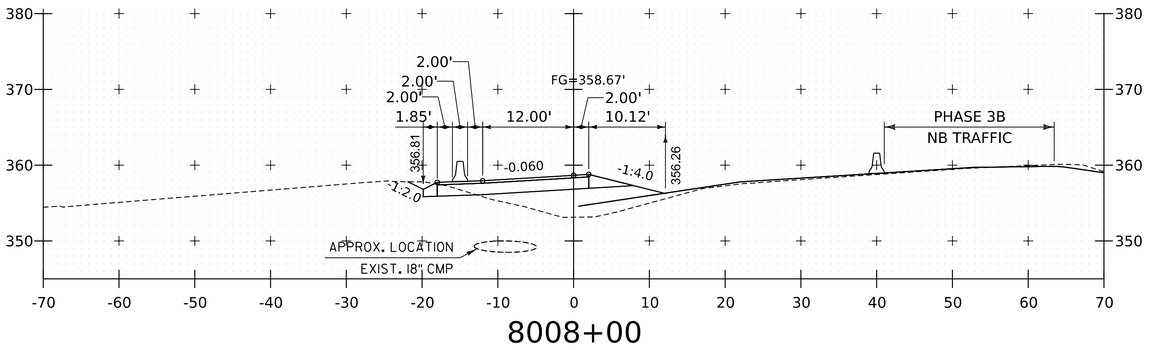


8007+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 7		SHEET	286 OF 922

HNTB



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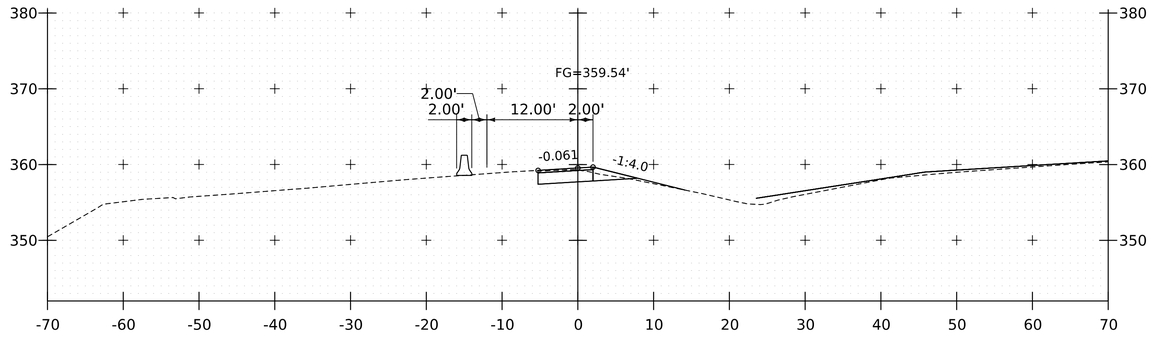

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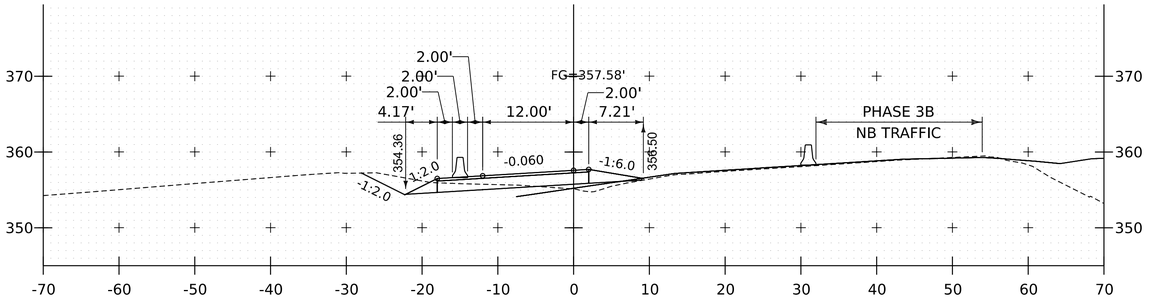
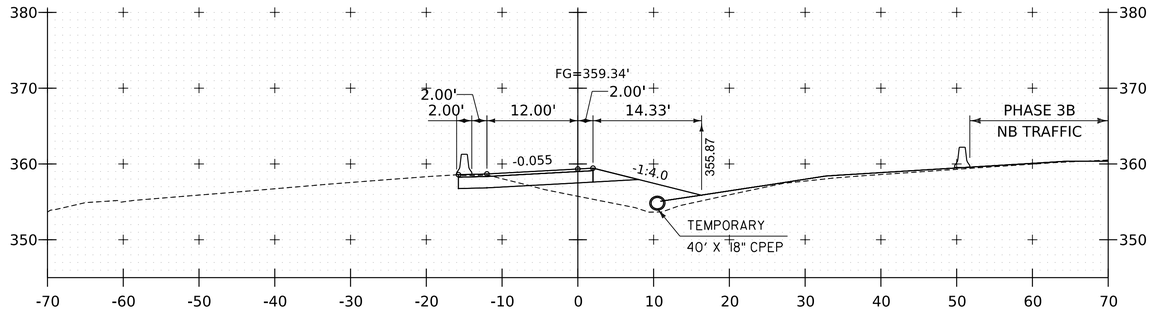


8007+75



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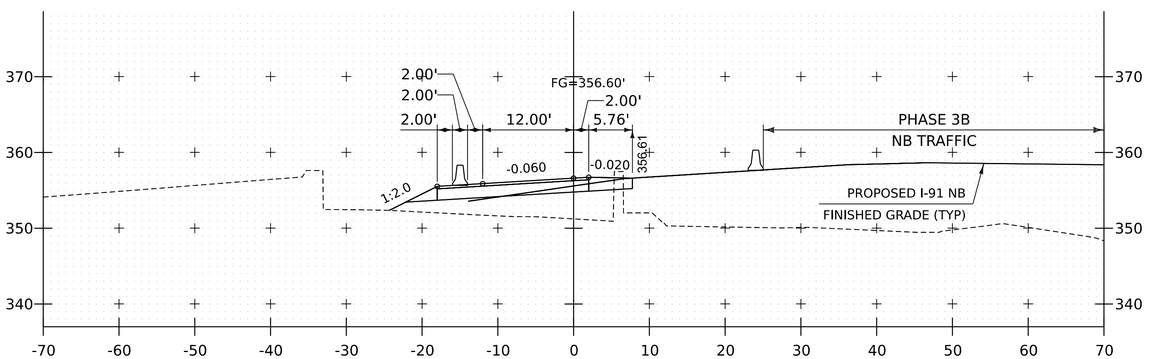

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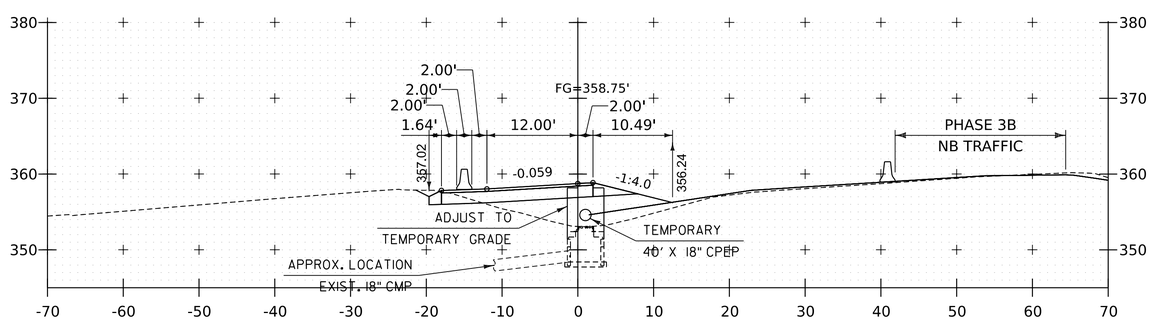
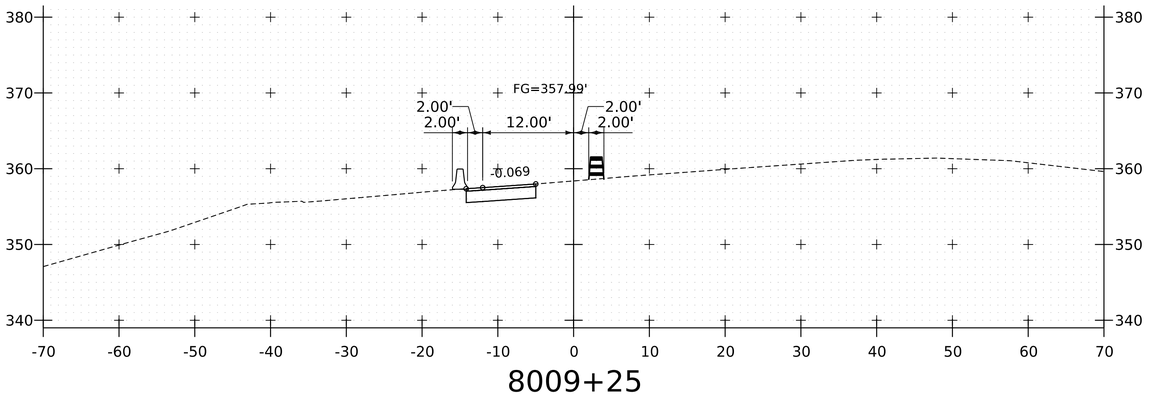


8008+02

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 8		SHEET	287 OF 922

HNTB



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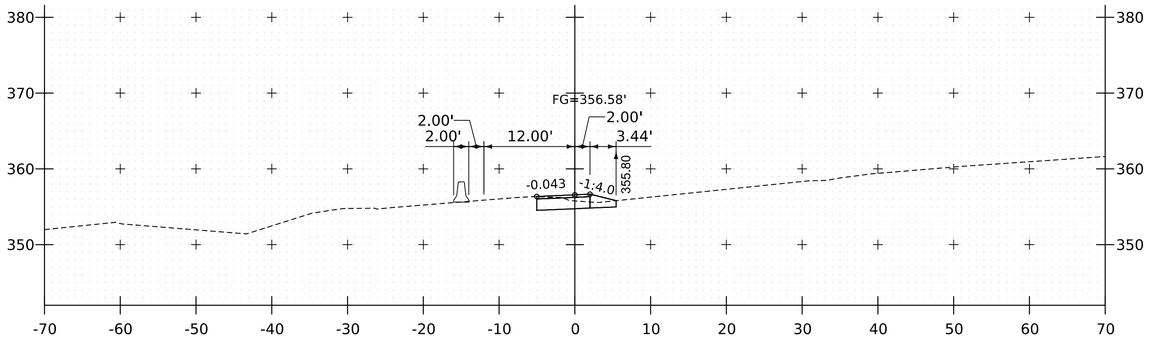

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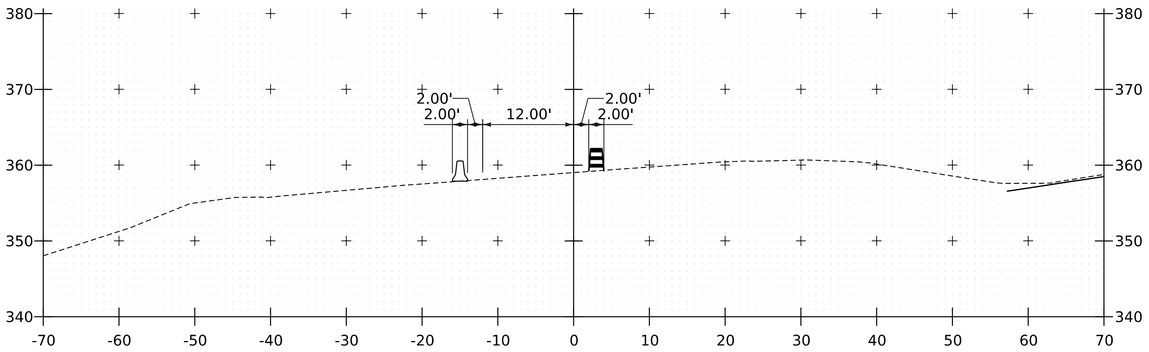
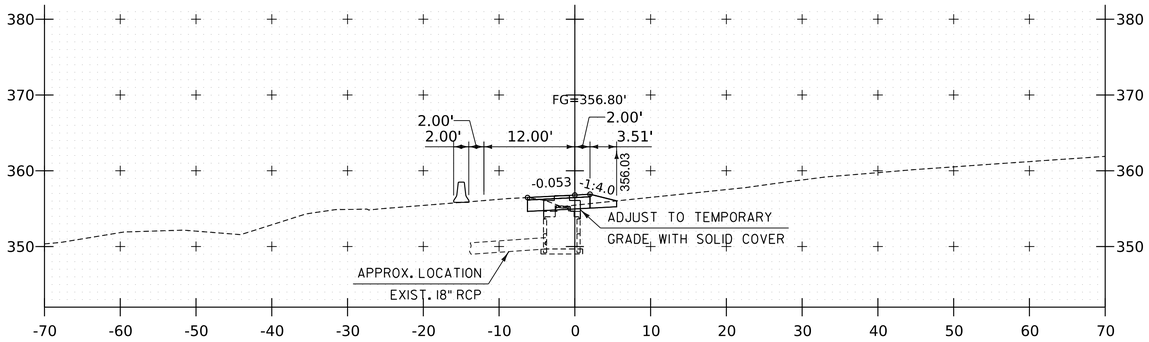
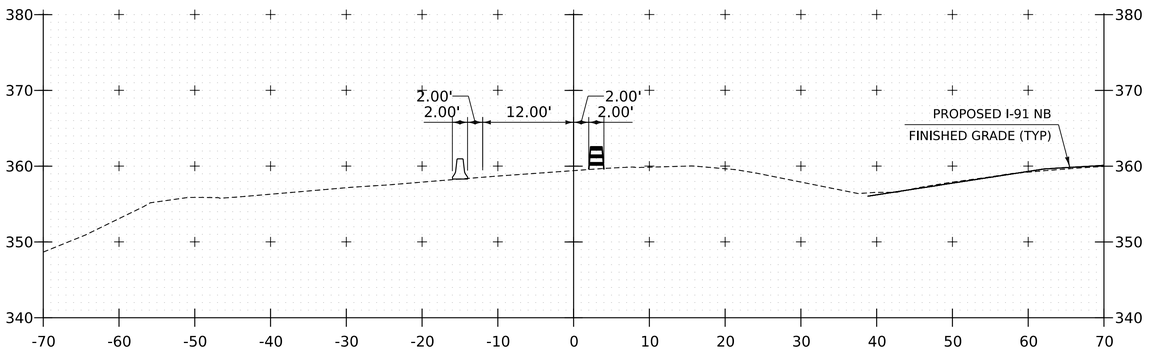


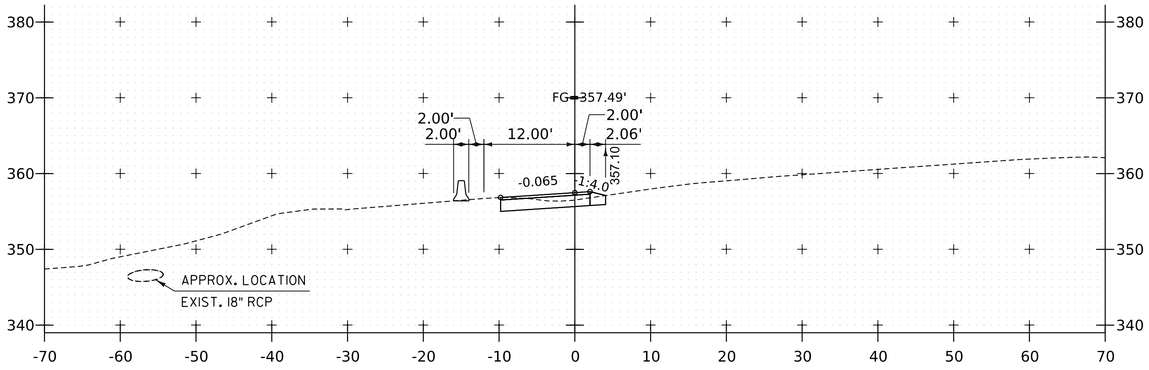
8009+00



8009+69



8008+75



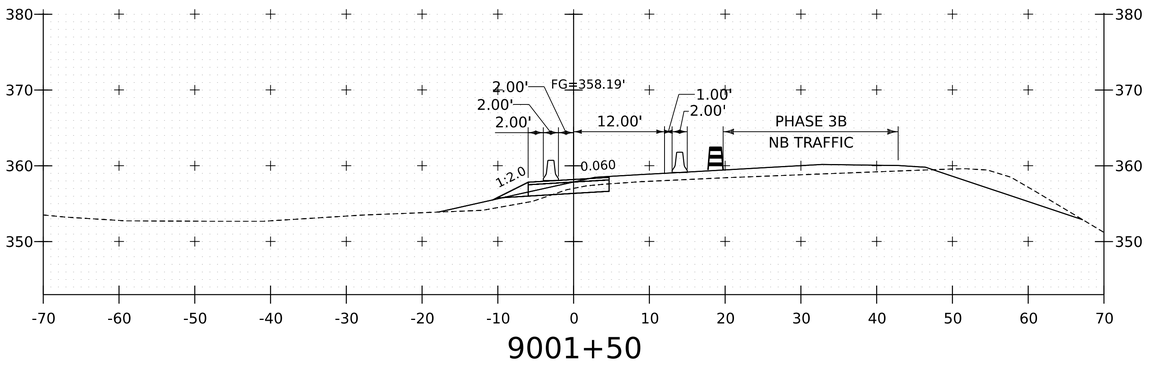
8009+50

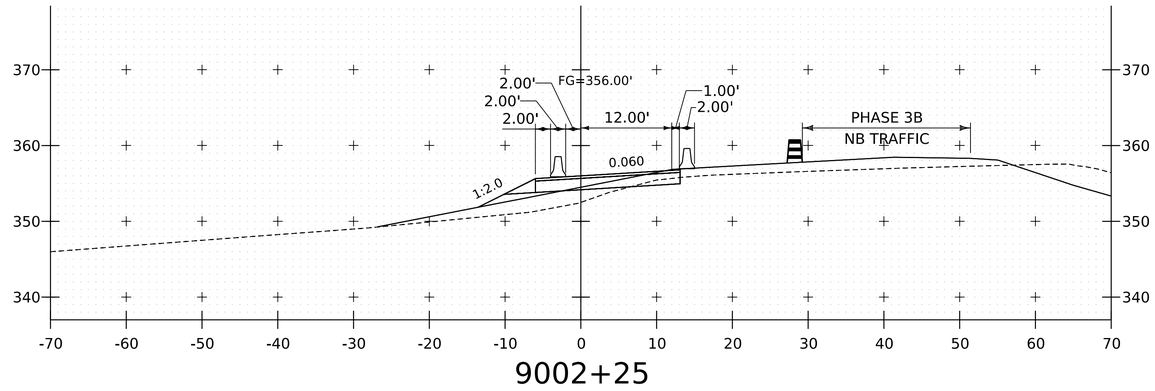
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

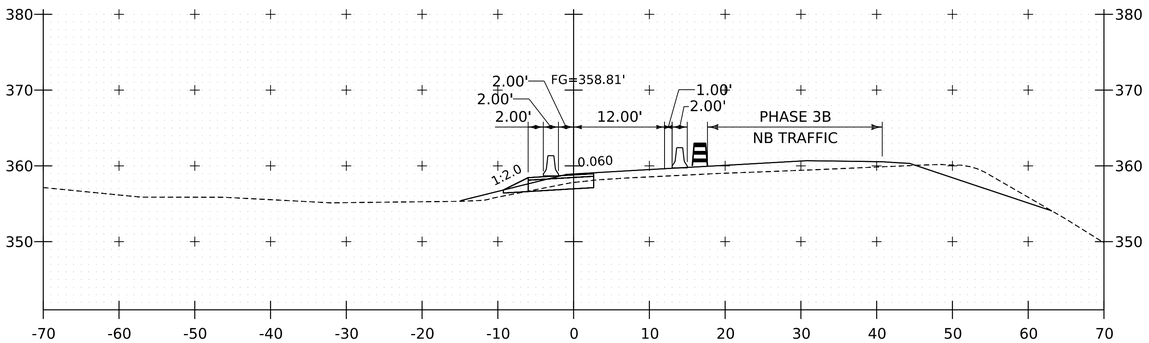
FILE NAME: z12a574xs_SB_Xover_Ramp.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
PHASE 3B TEMP. I-91 SB ON RAMP CROSS SECTIONS 9

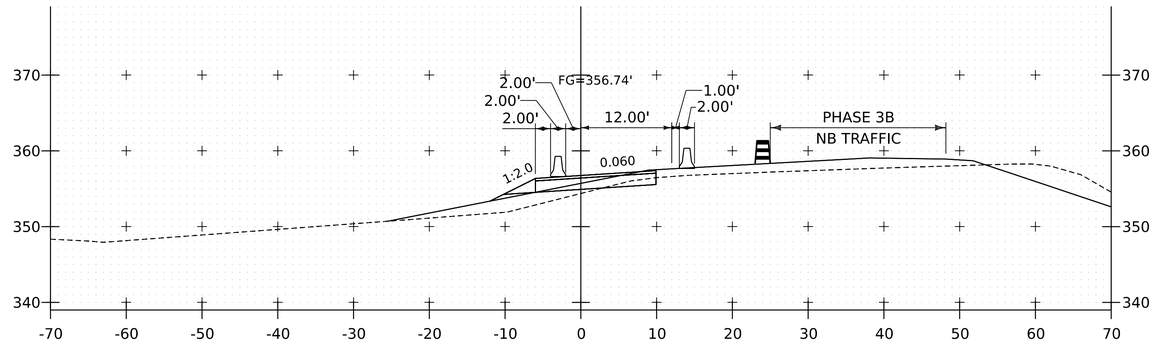
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 288 OF 922

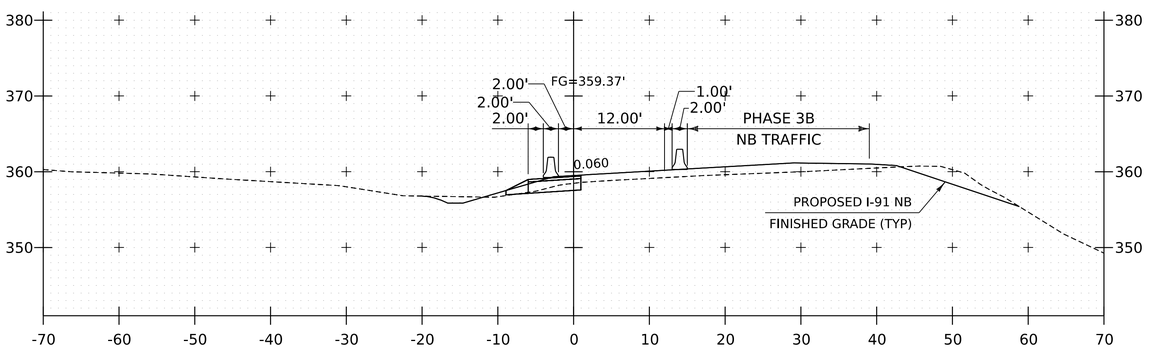
HNTB

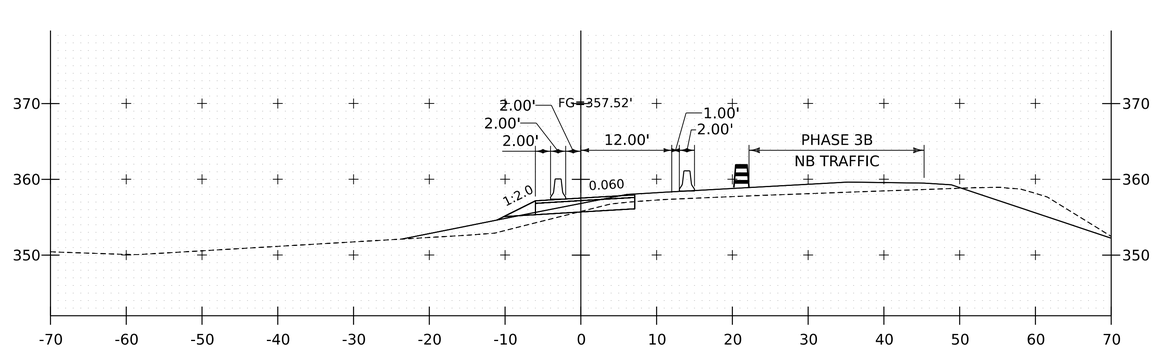








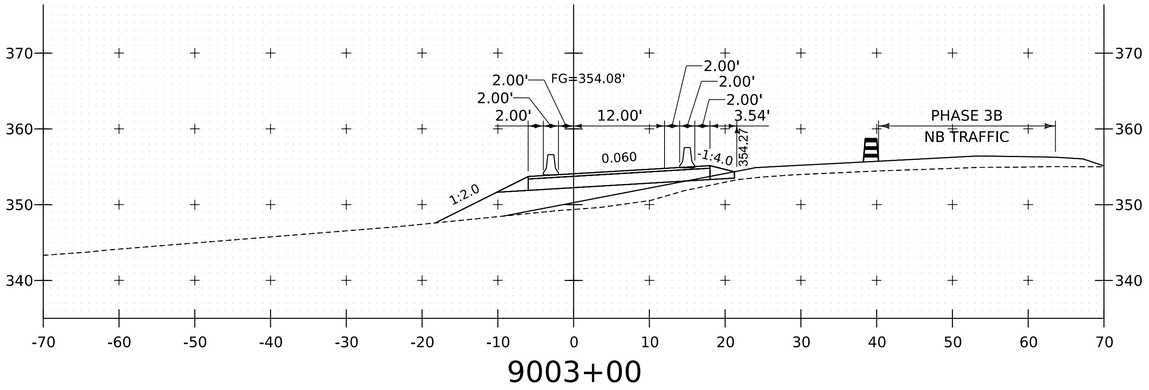




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 1		SHEET	289 OF 922

HNTB



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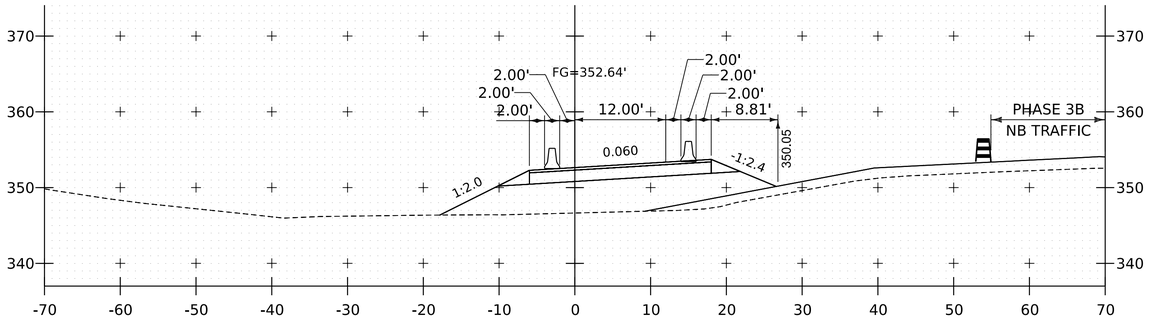
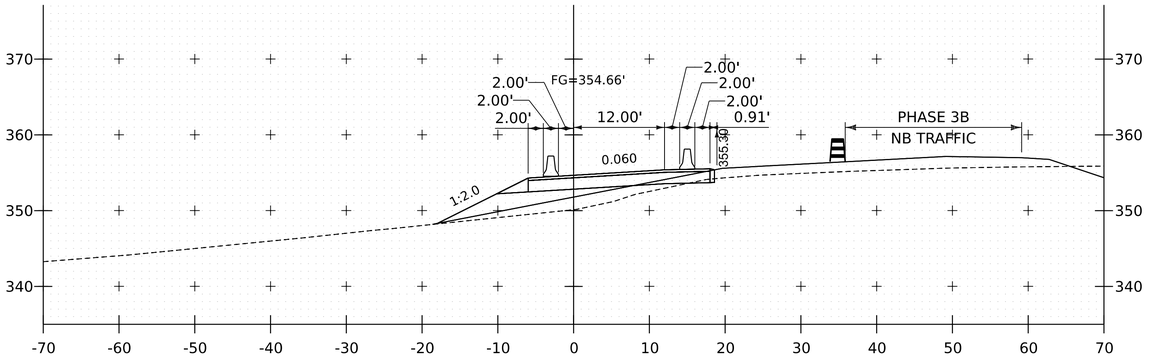


9003+75



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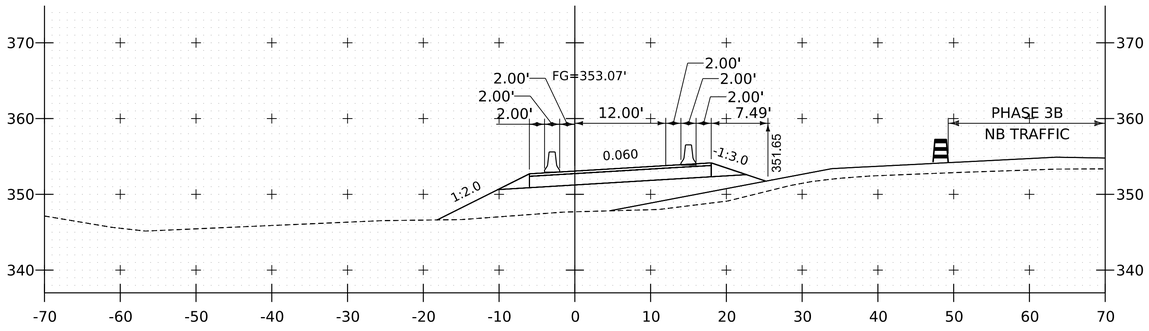
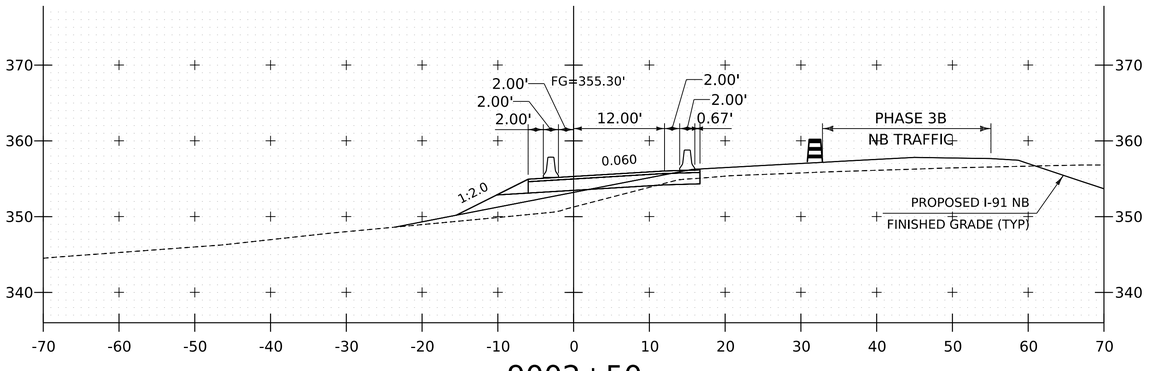
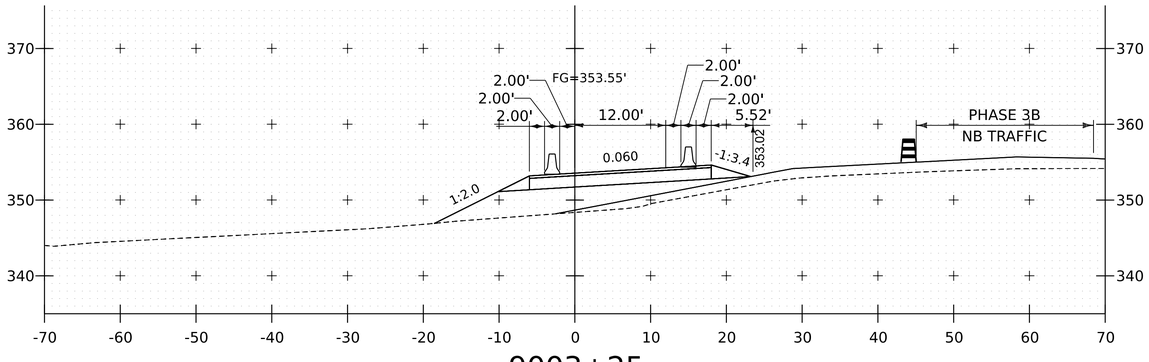


9003+50



9002+50

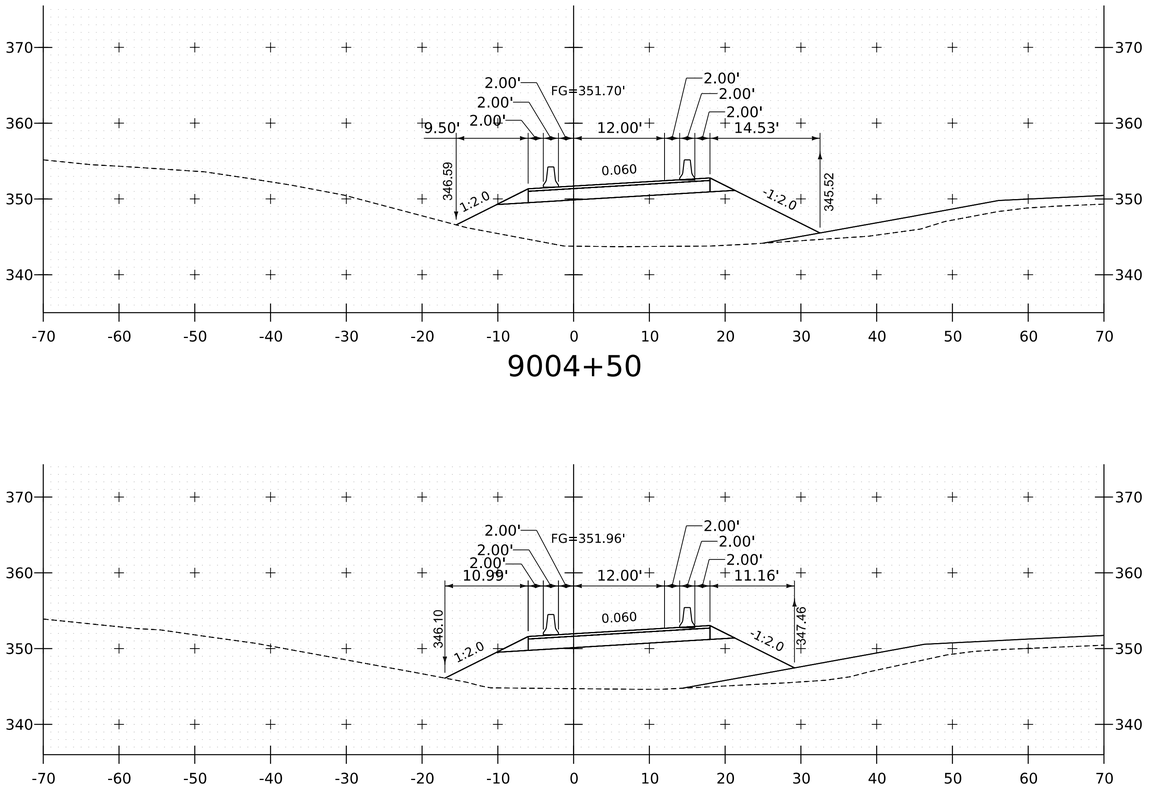


9003+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 2		SHEET	290 OF 922

HNTB



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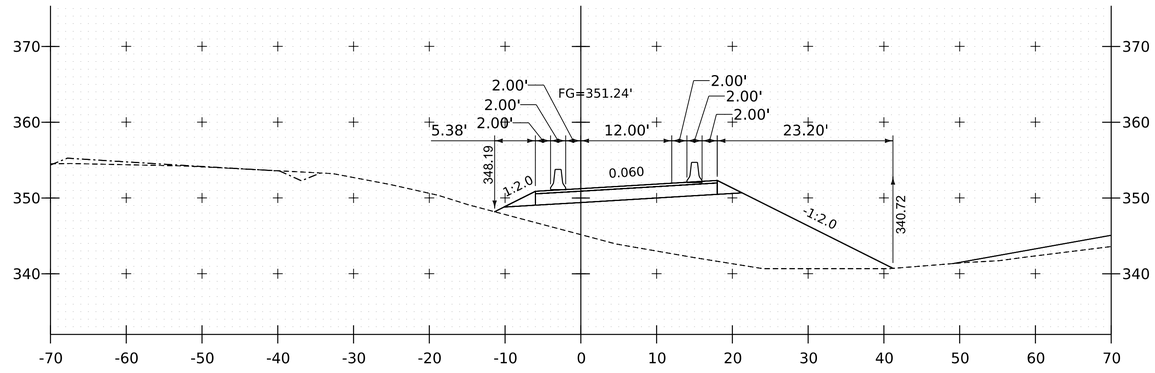


9005+25

9004+25

9005+00

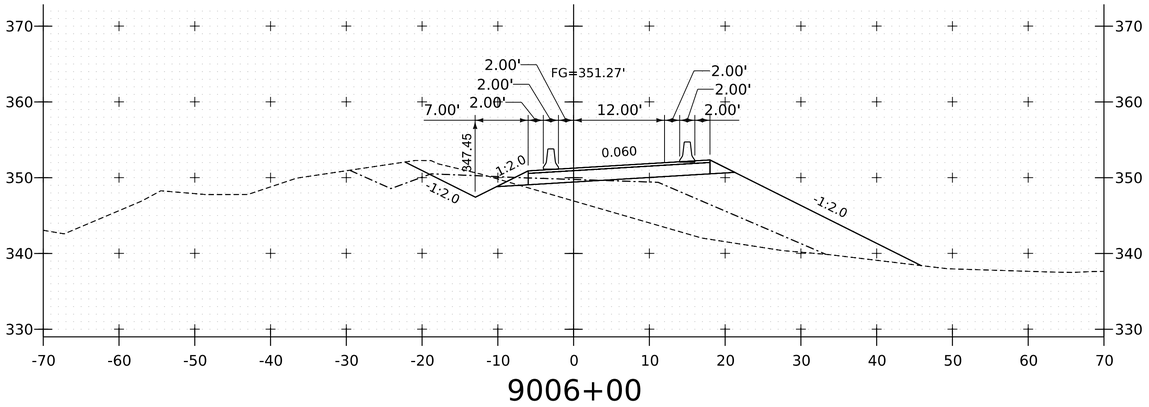
9004+00

9004+75

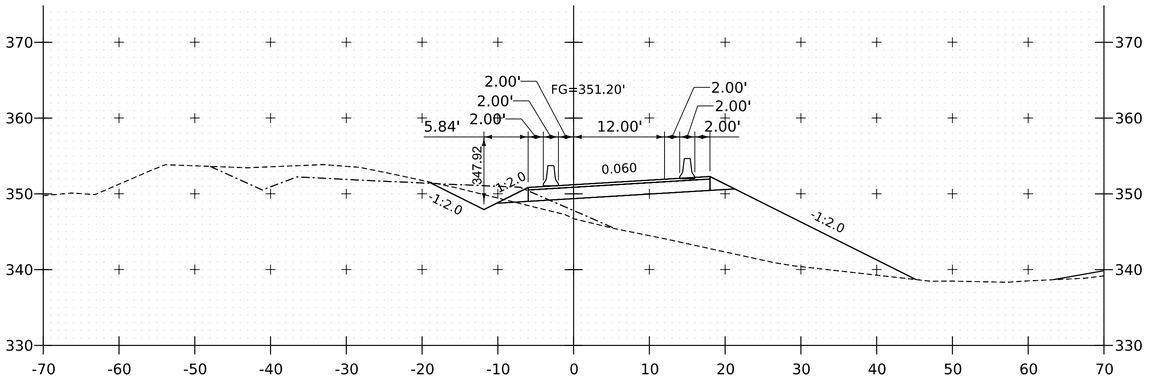
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 3		SHEET	291 OF 922

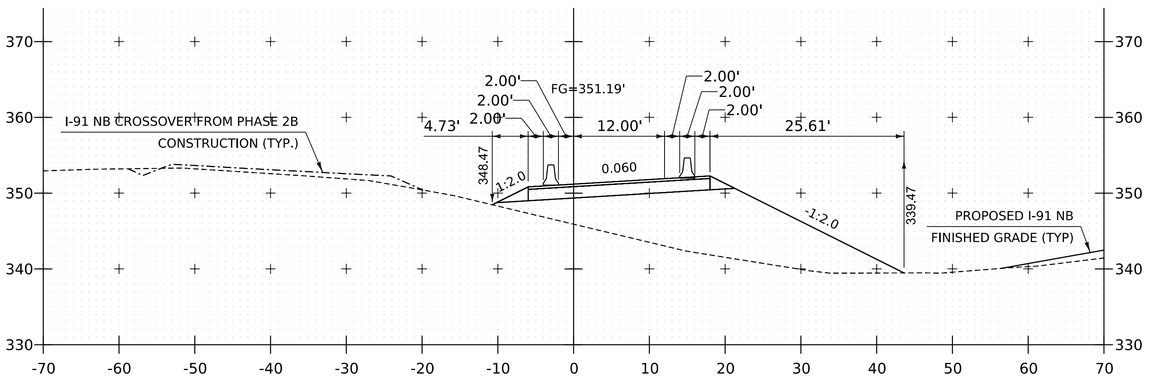
HNTB



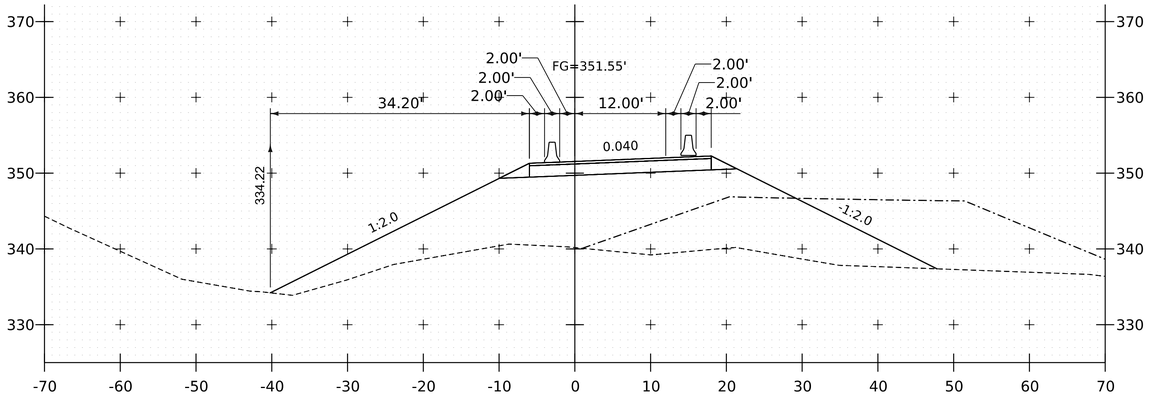
9006+00



9005+75



9005+50



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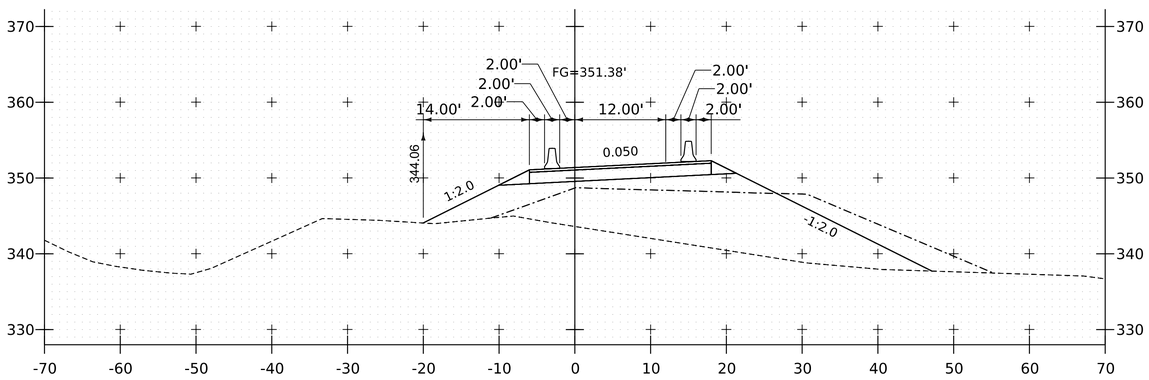
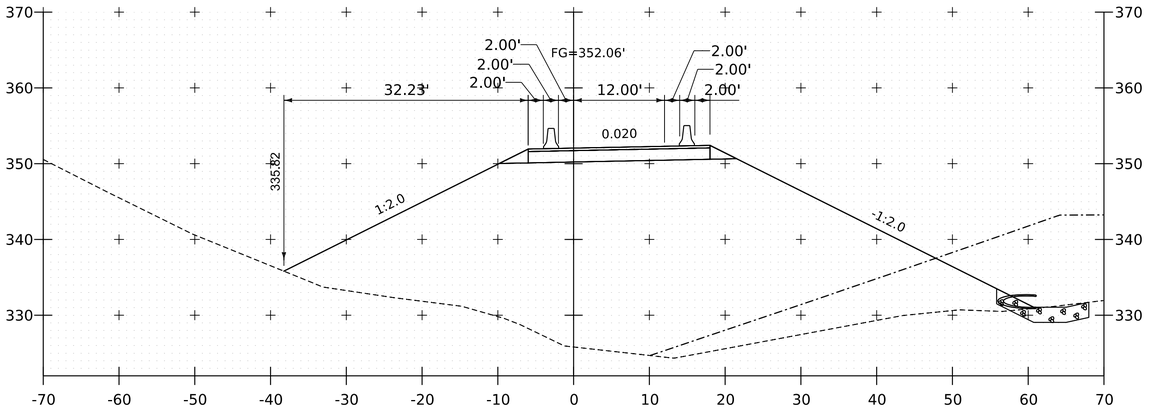


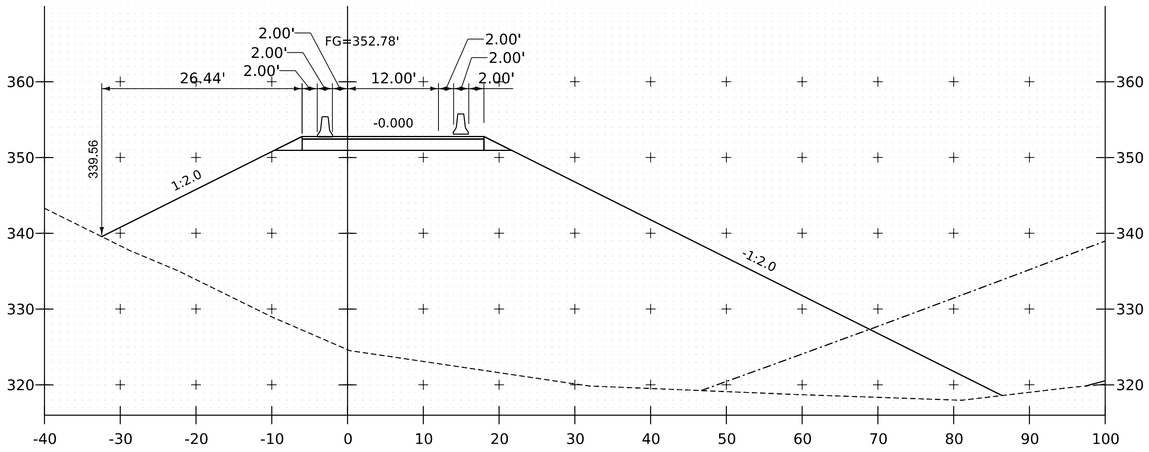
9006+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_SB_Xover_N.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 4	SHEET 292 OF 922

HNTB



9007+00



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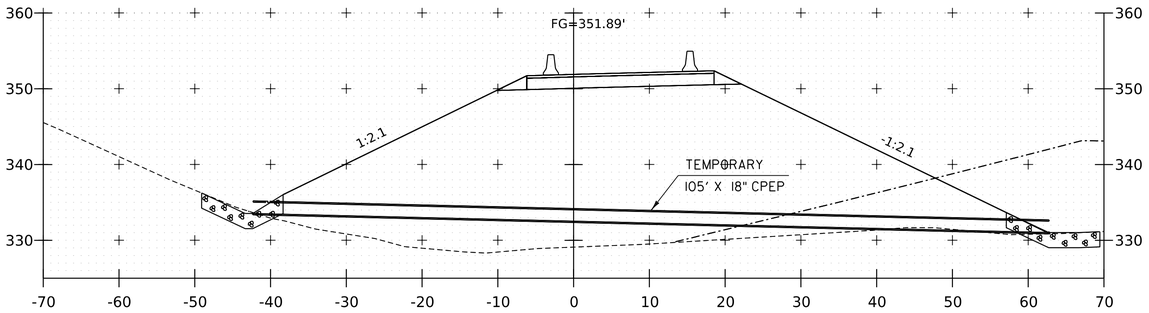

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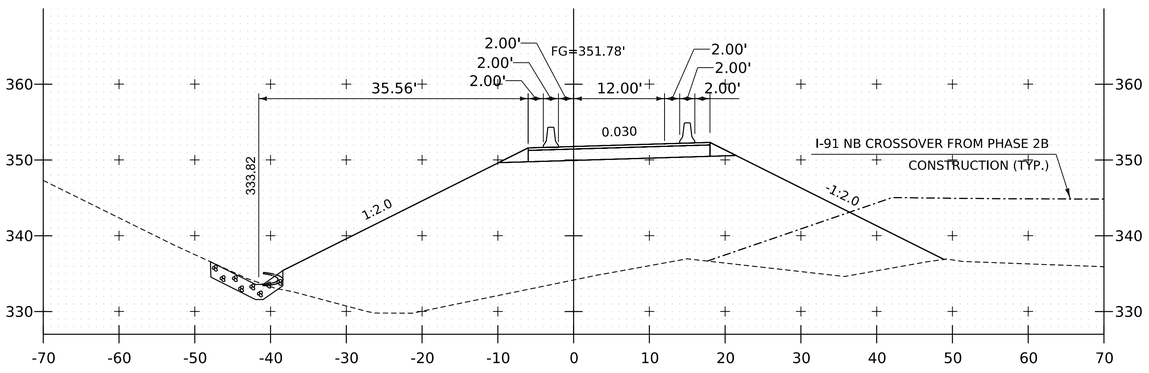
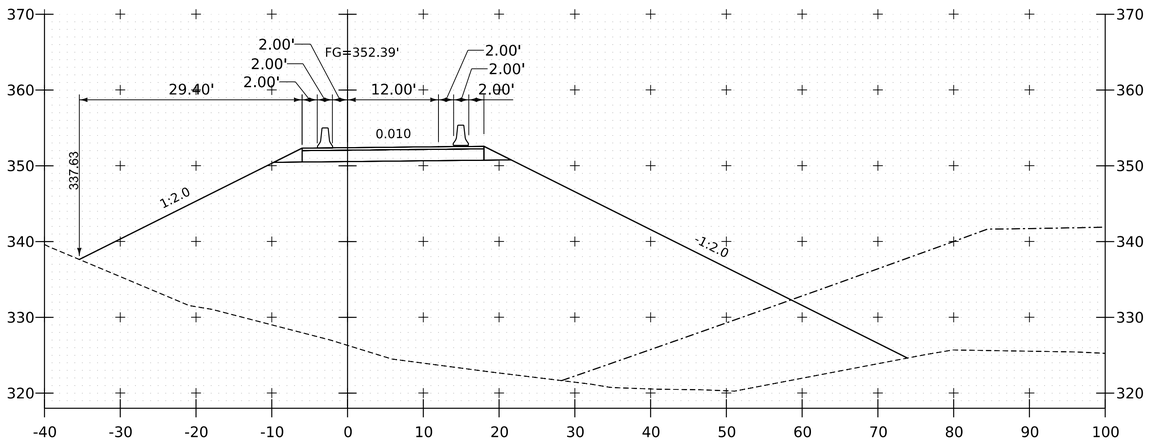


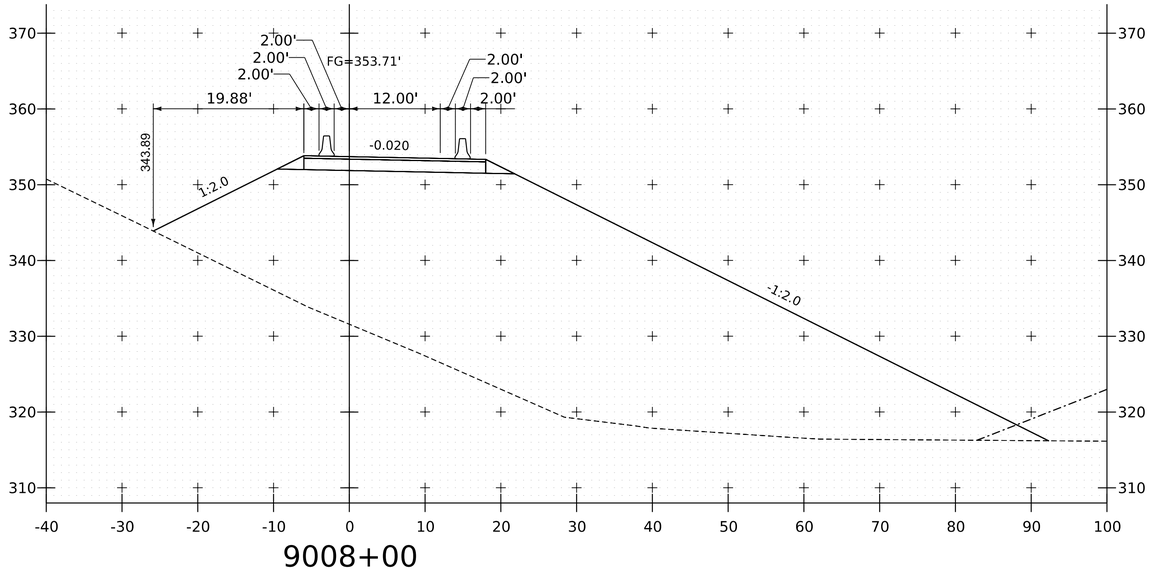
9006+75



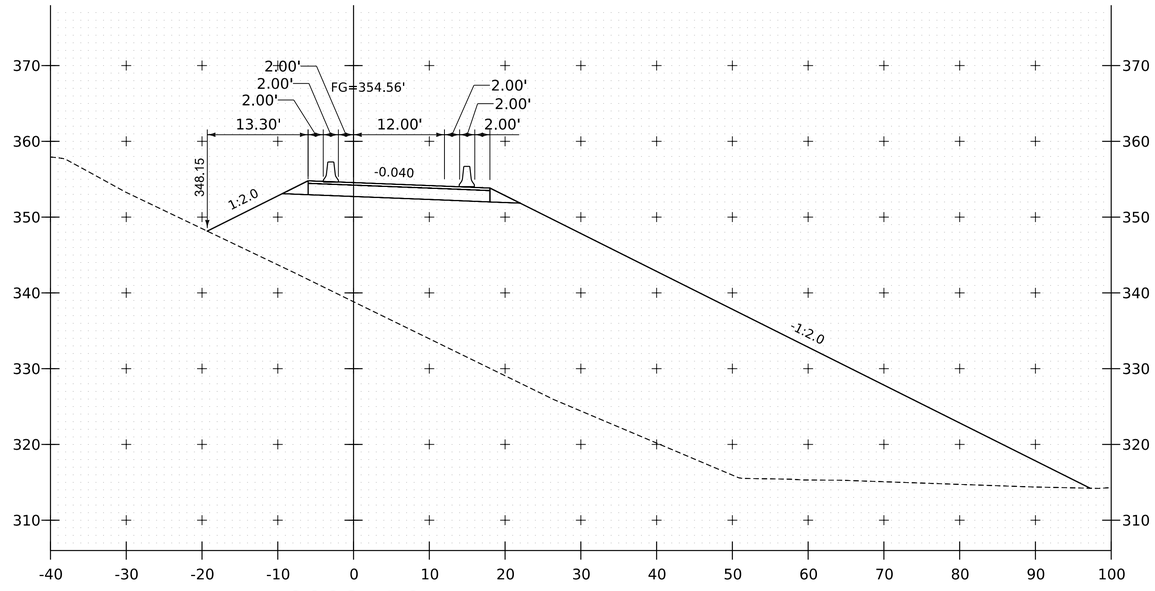
9007+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_SB_Xover_N.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 5	SHEET 293 OF 922

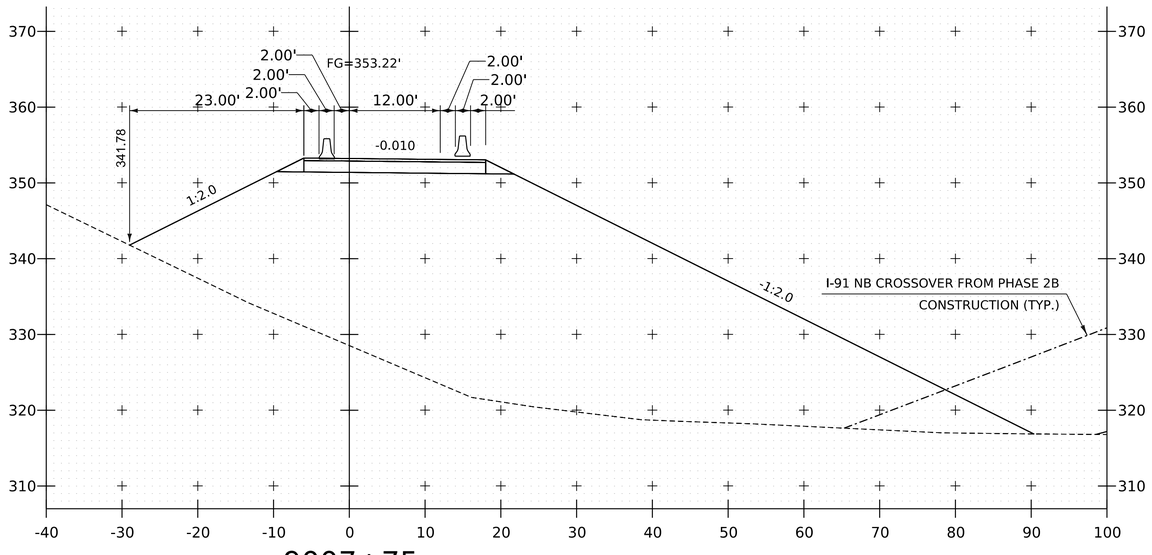
HNTB



9008+00



9008+50



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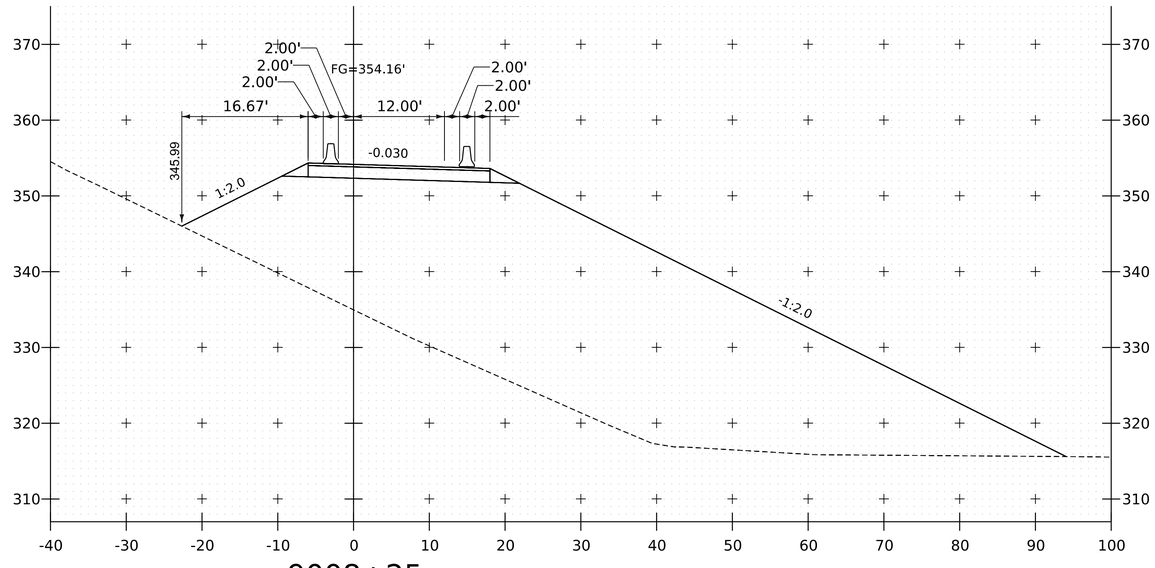
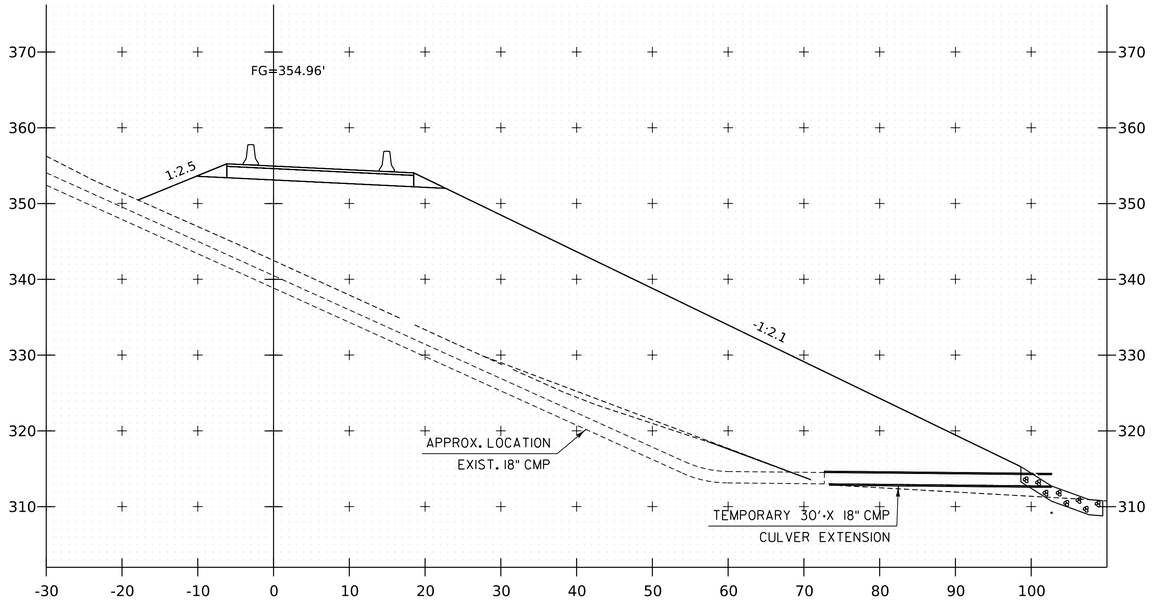


9008+25

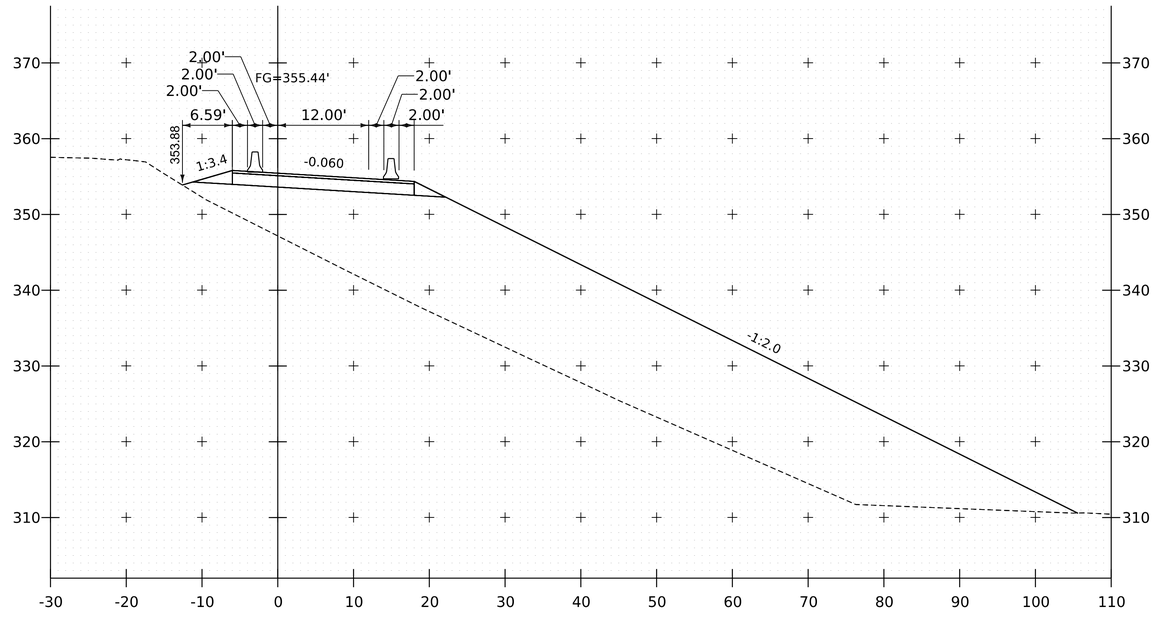
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 6		SHEET	294 OF 922

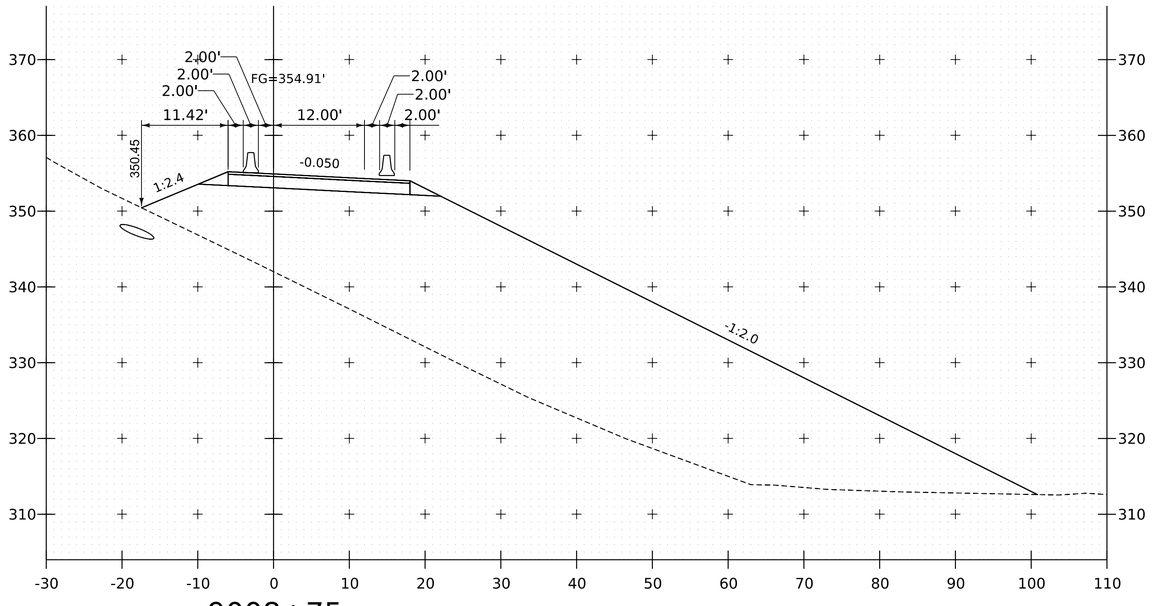
HNTB



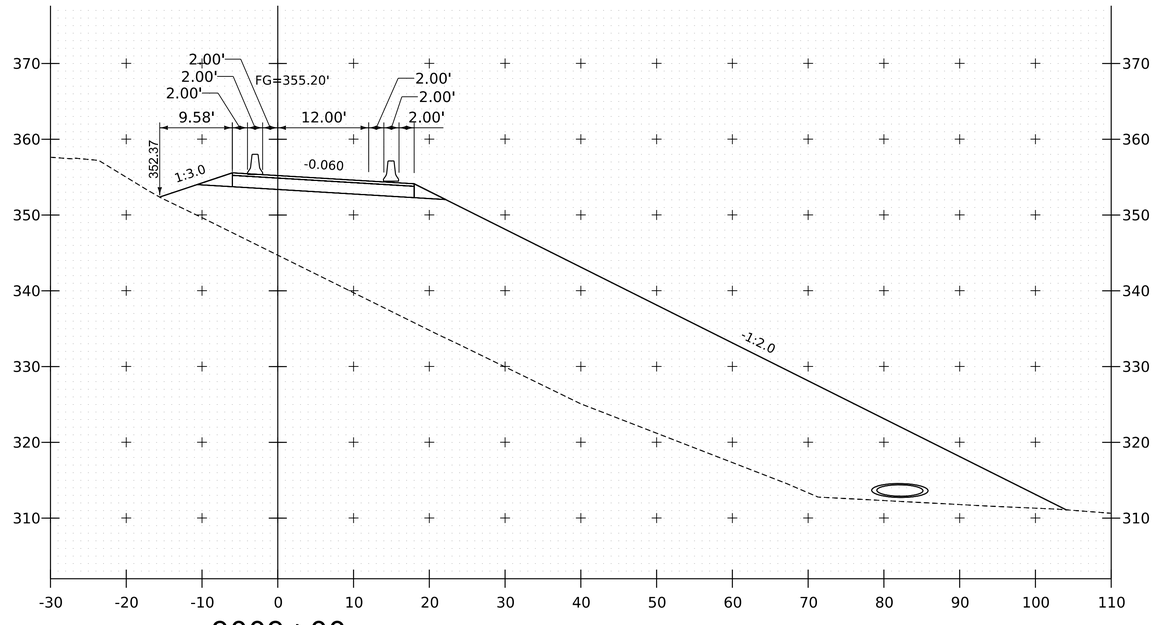
9008+79 (SKEWED ALONG PIPE)



9009+25



9008+75

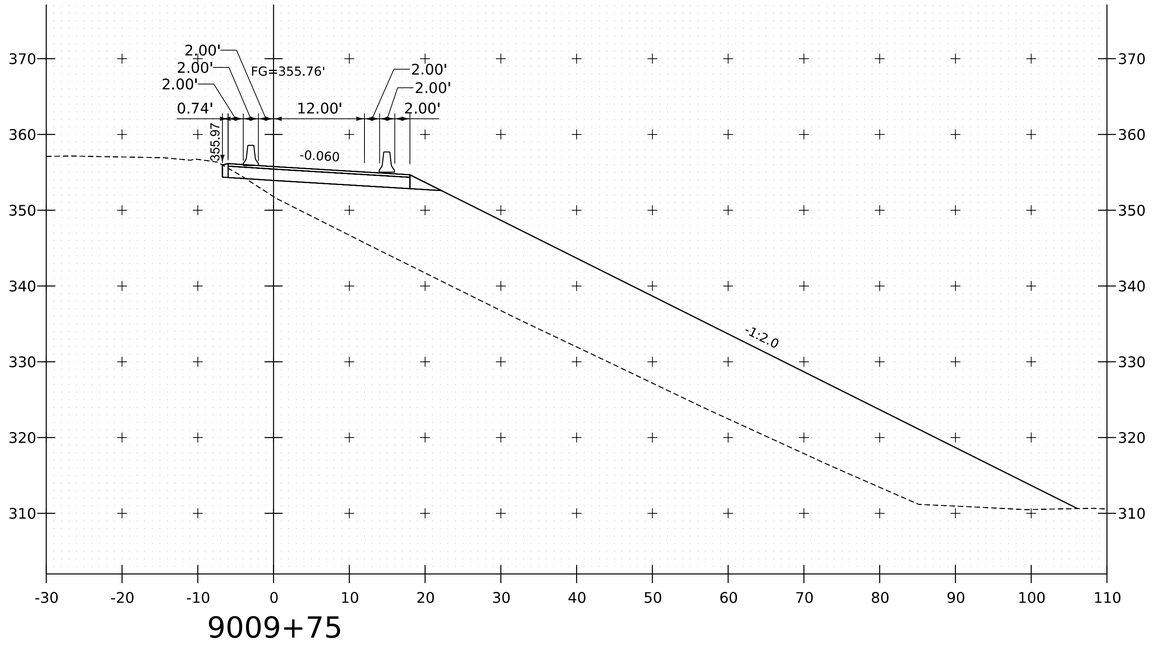


9009+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 7		SHEET	295 OF 922

HNTB



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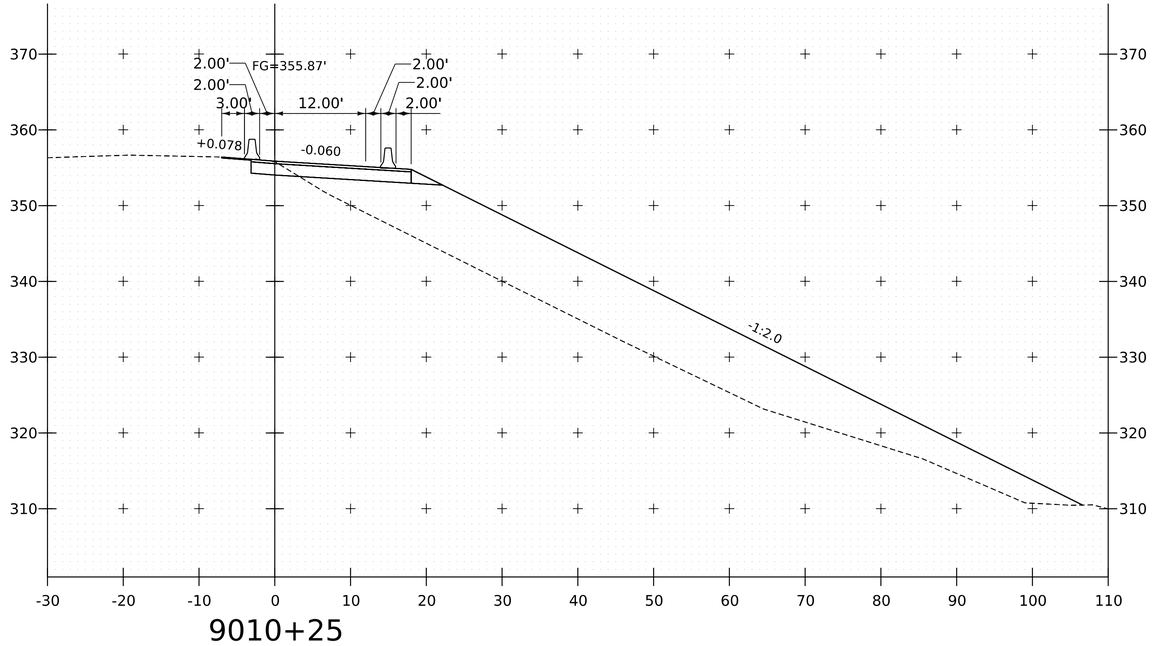
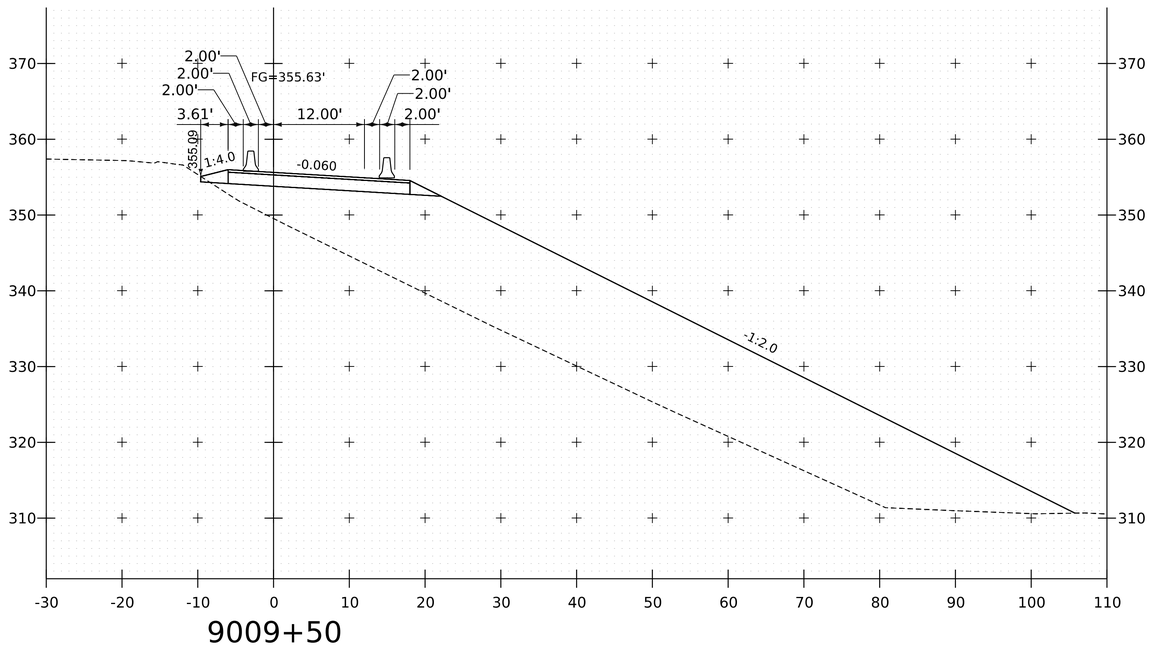


9010+25



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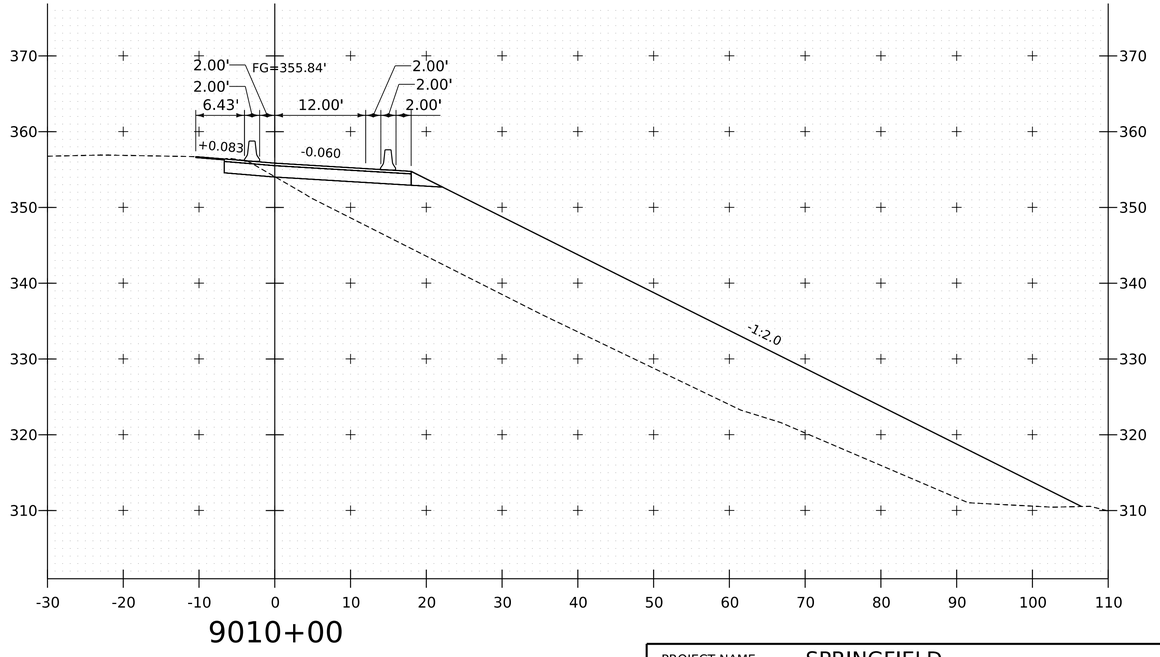
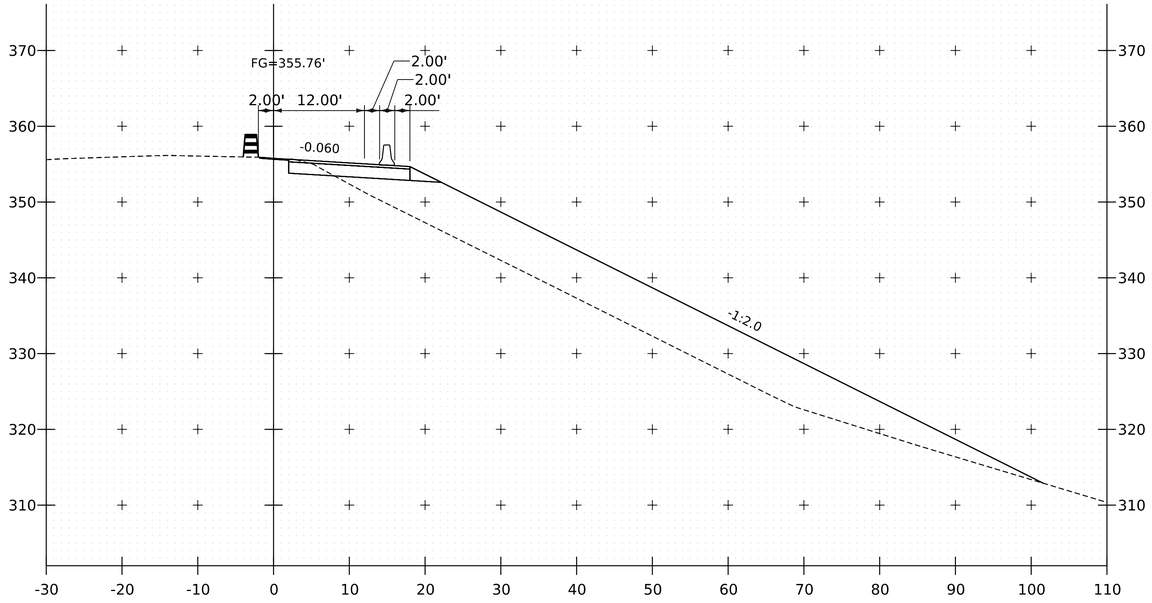


9010+00

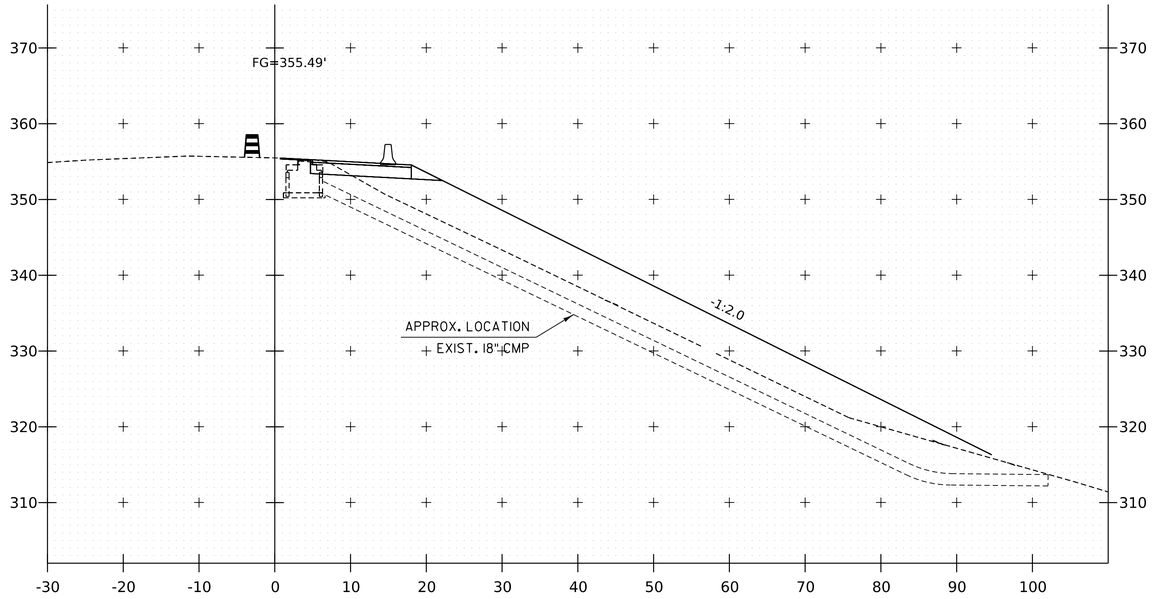
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 8		SHEET	296 OF 922

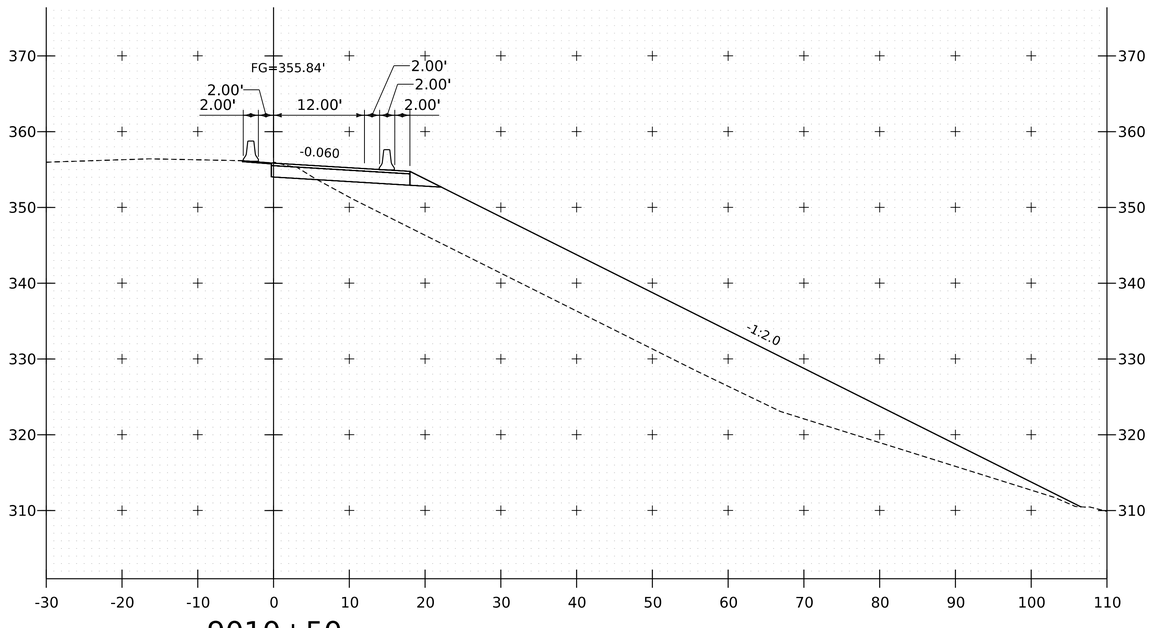
HNTB



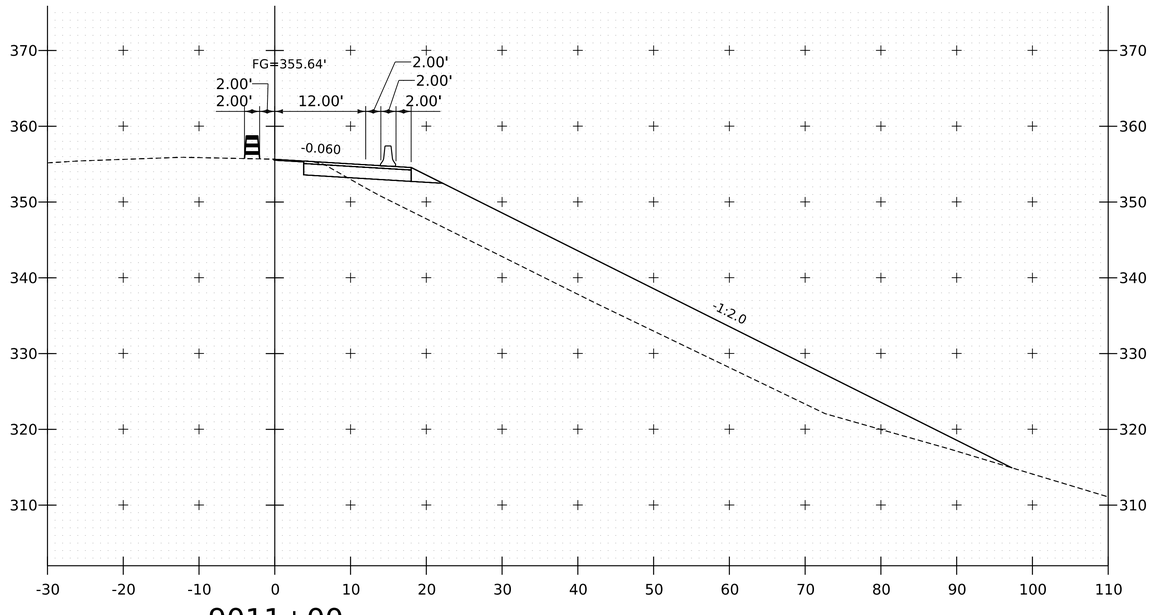
9010+75



9011+17 (SKEWED ALONG PIPE)



9010+50

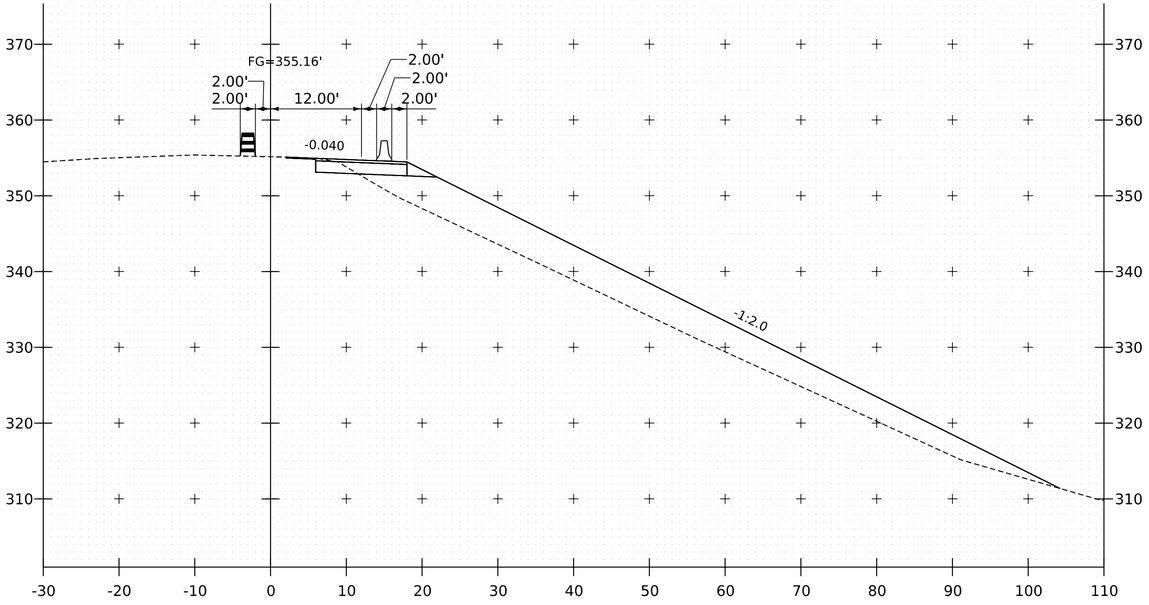


9011+00

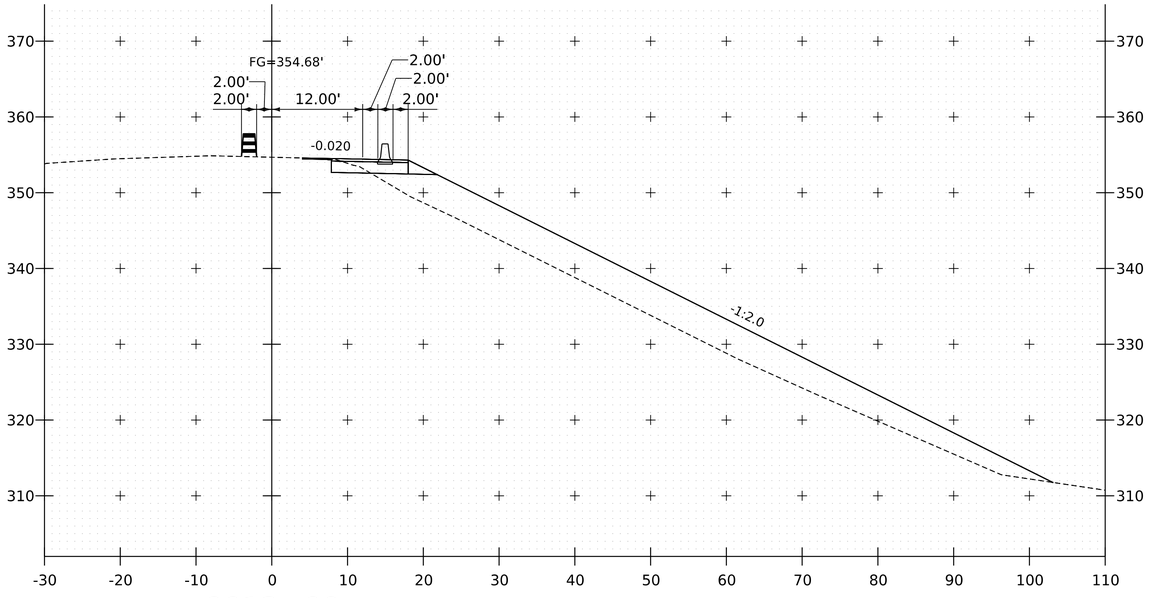
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 9		SHEET	297 OF 922

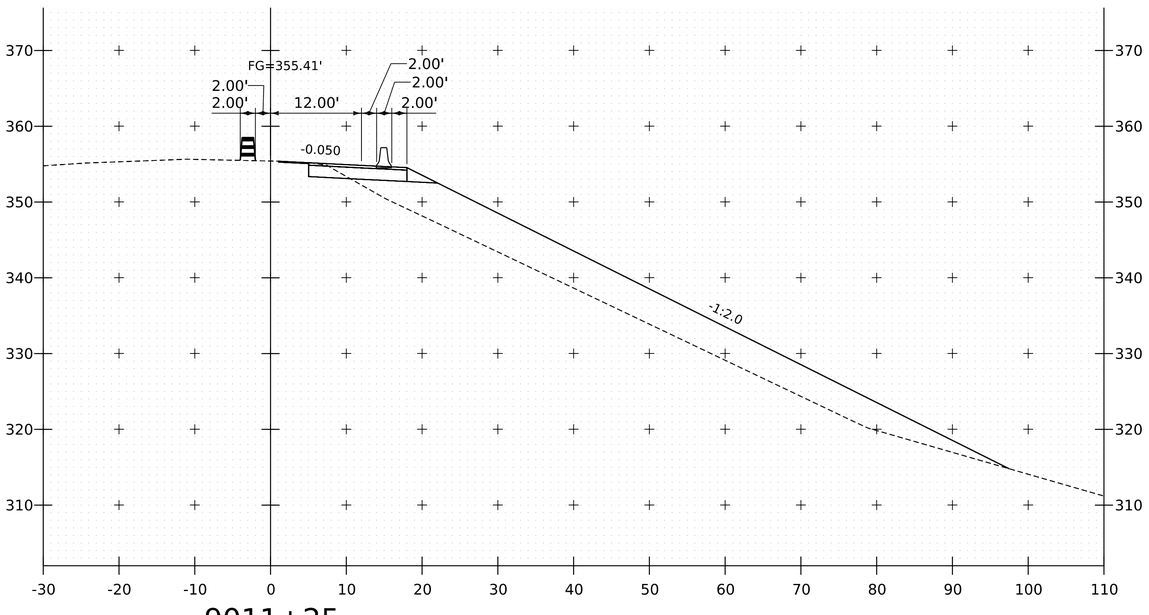
HNTB



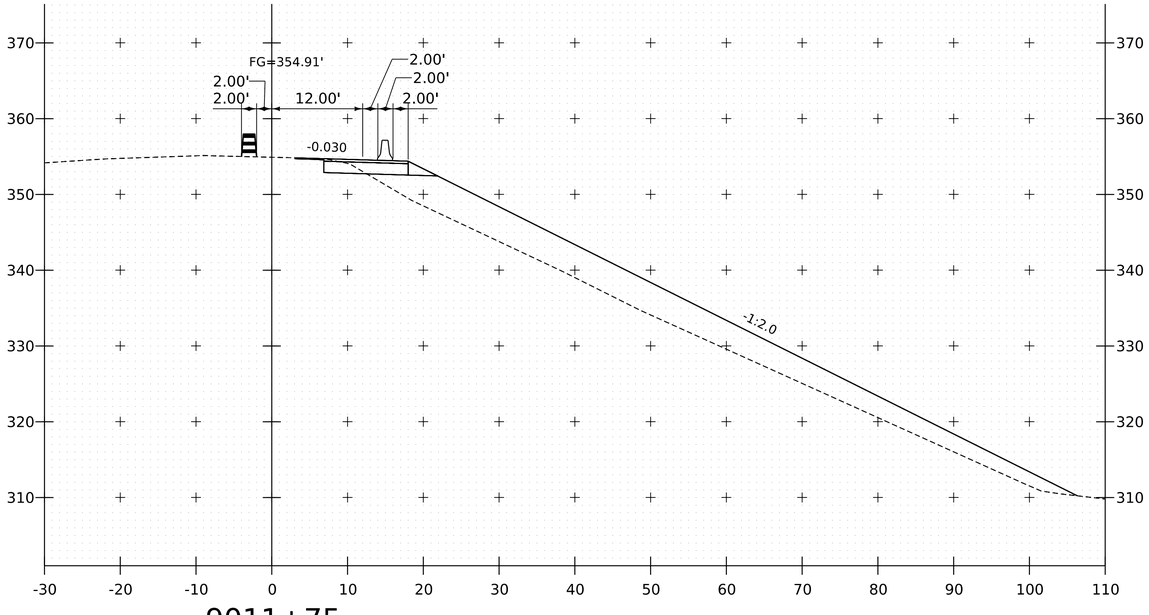
9011+50



9012+00



9011+25

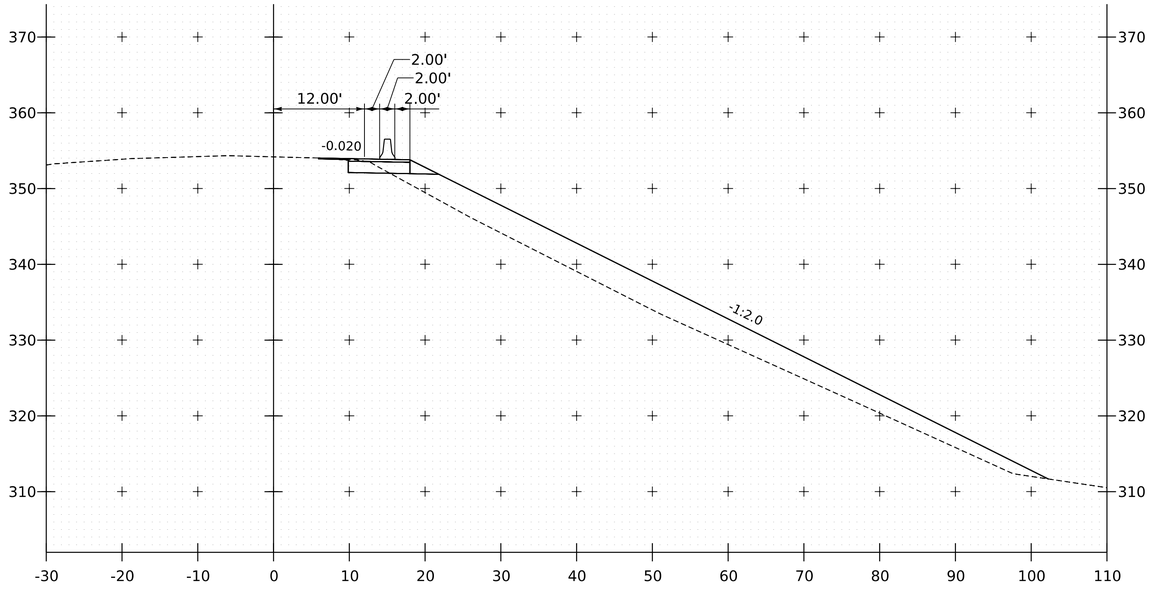


9011+75

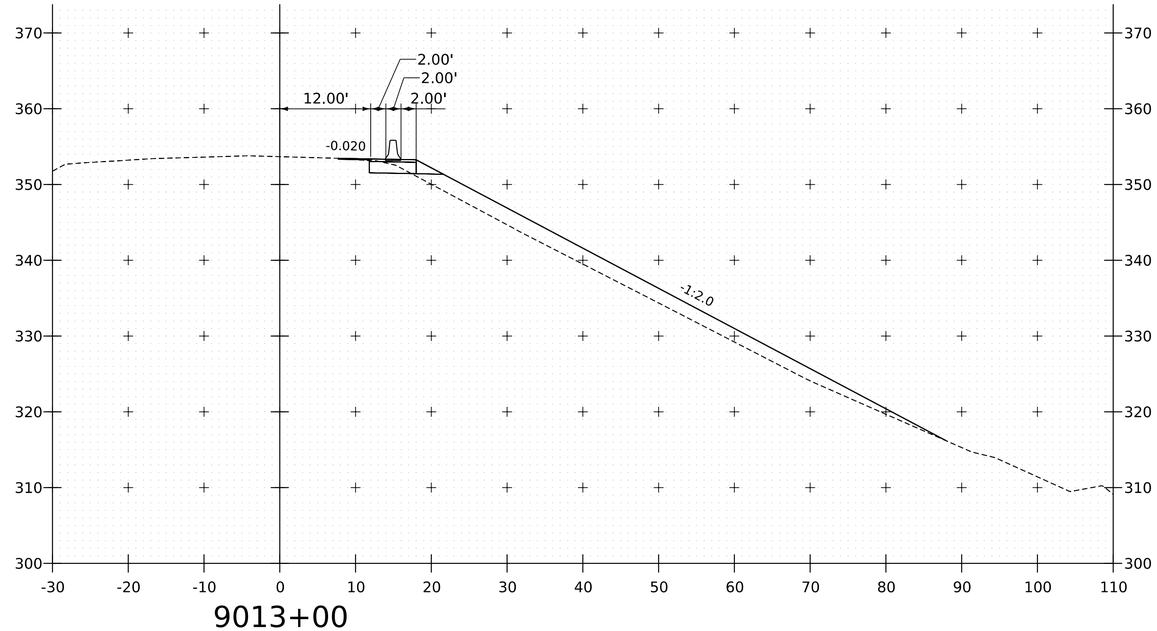
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_SB_Xover_N.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 10

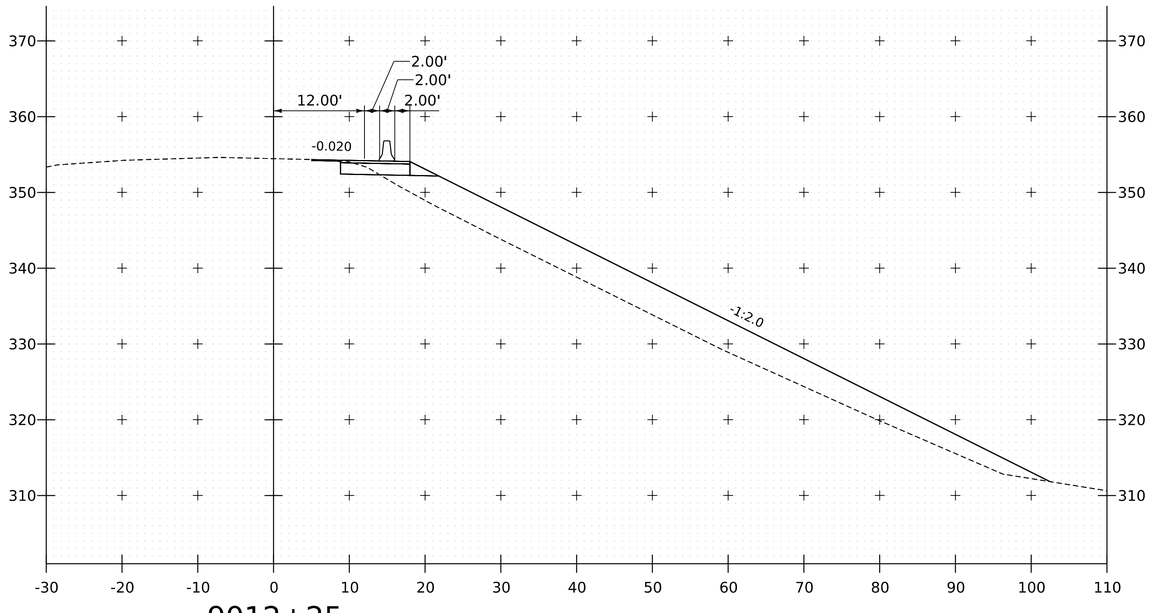
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. SHEDD
SHEET 298 OF 922



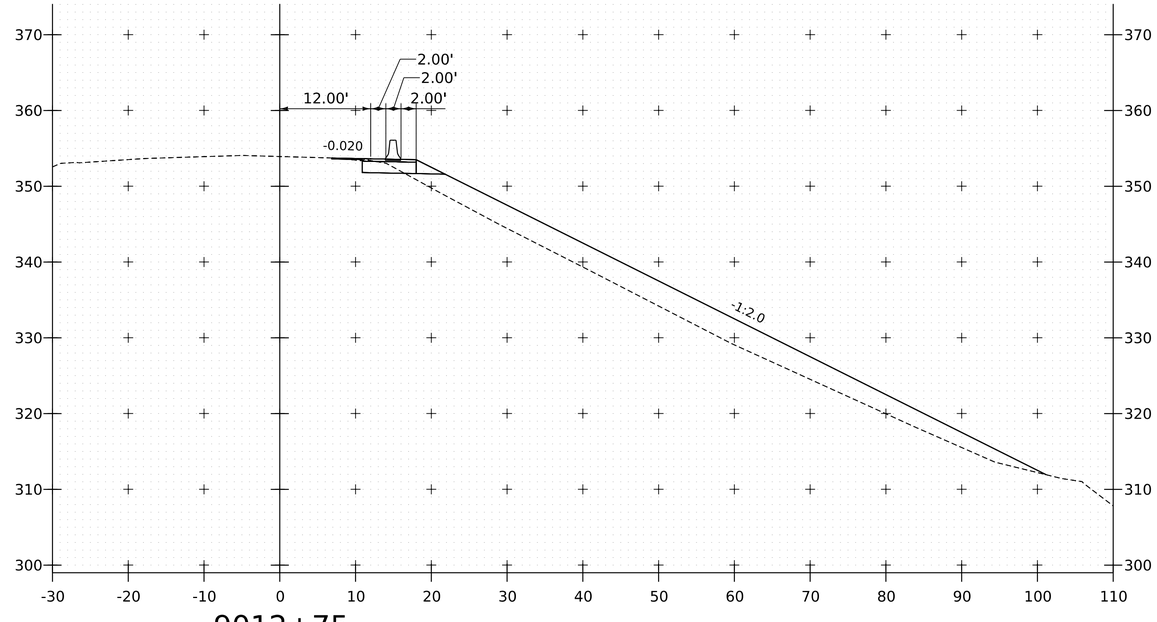
9012+50



9013+00



9012+25

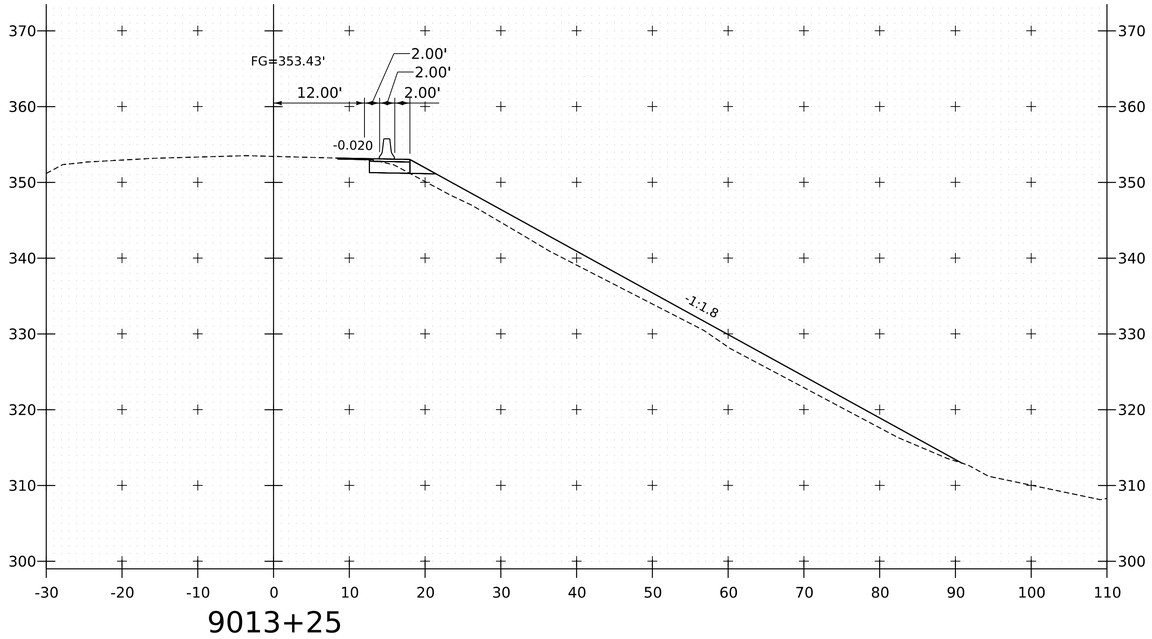


9012+75

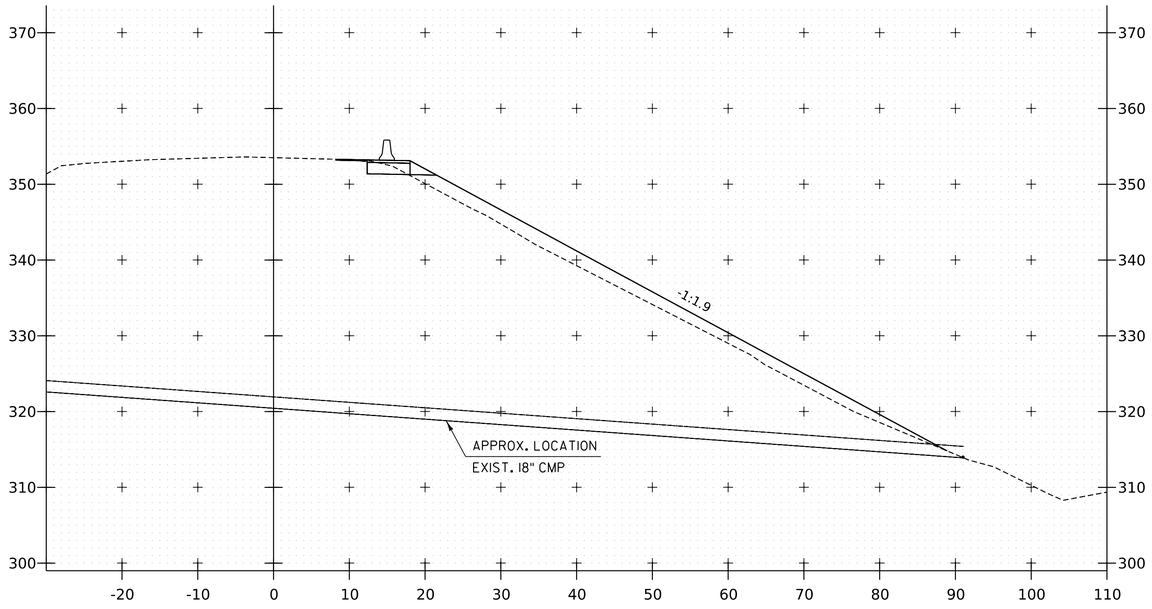
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 11		SHEET	299 OF 922

HNTB



9013+25



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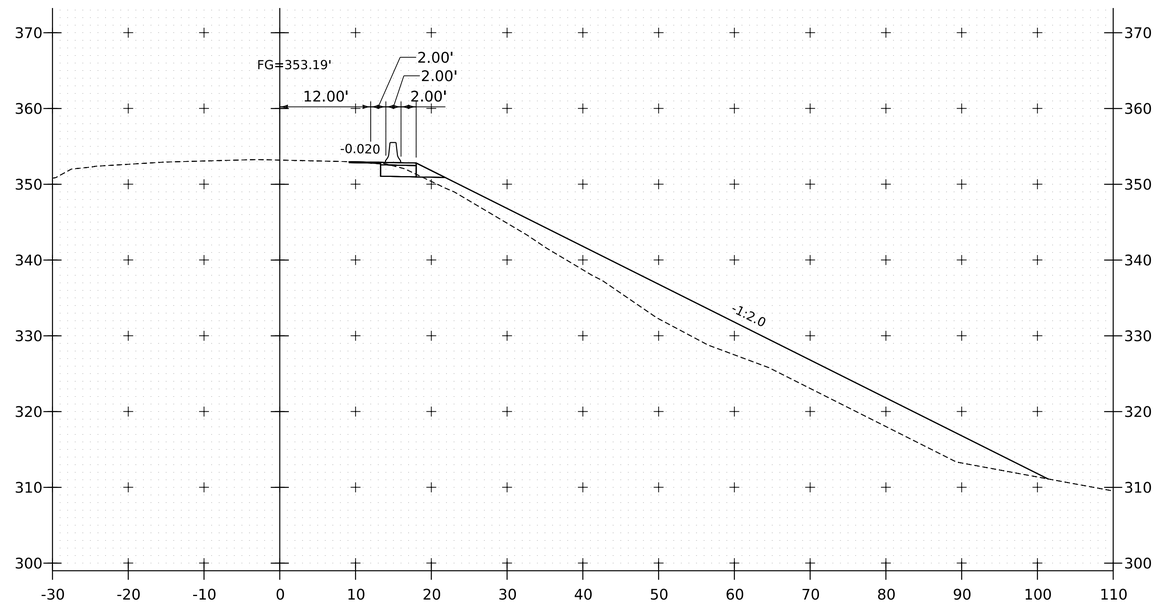
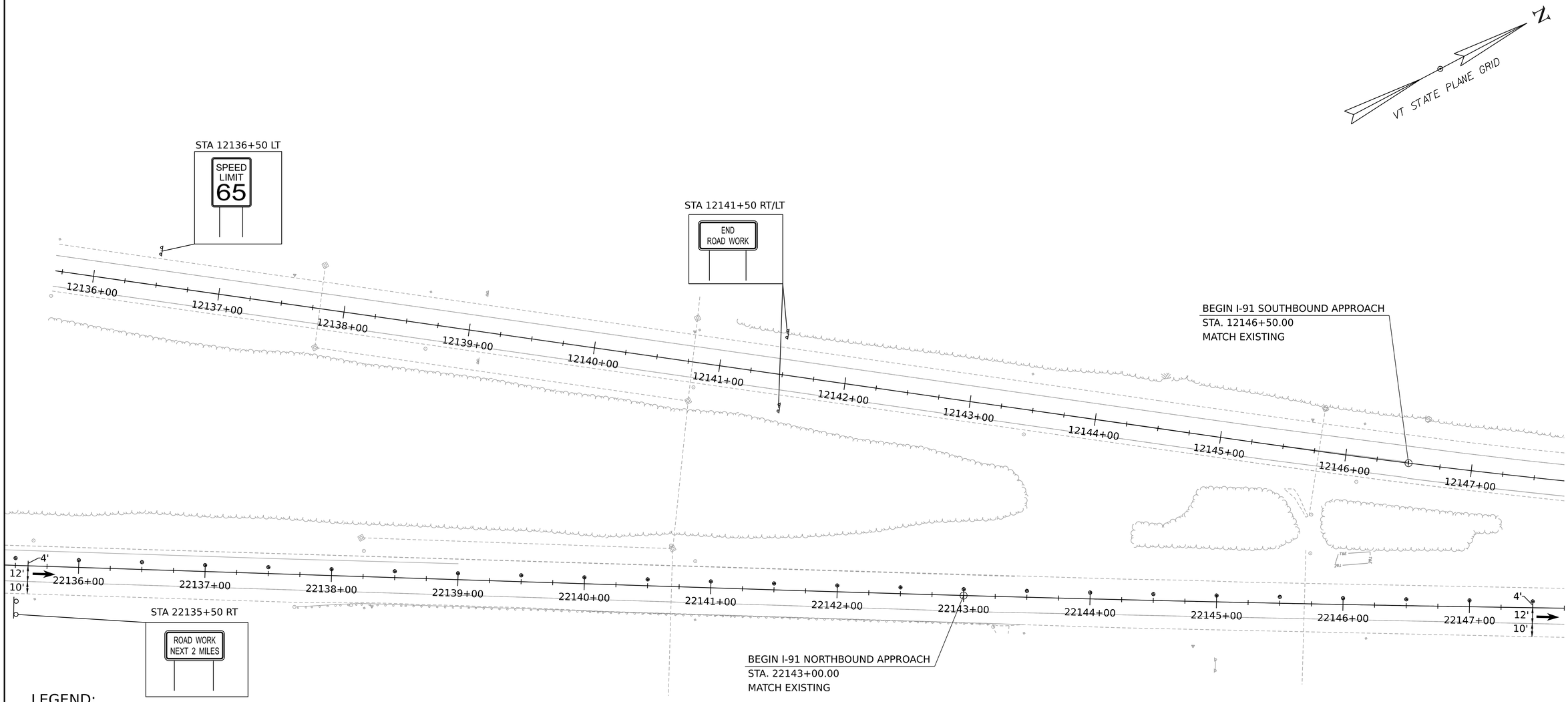


9013+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_SB_Xover_N.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 PHASE 3B CROSSOVER-N CROSS SECTION 12		SHEET	300 OF 922

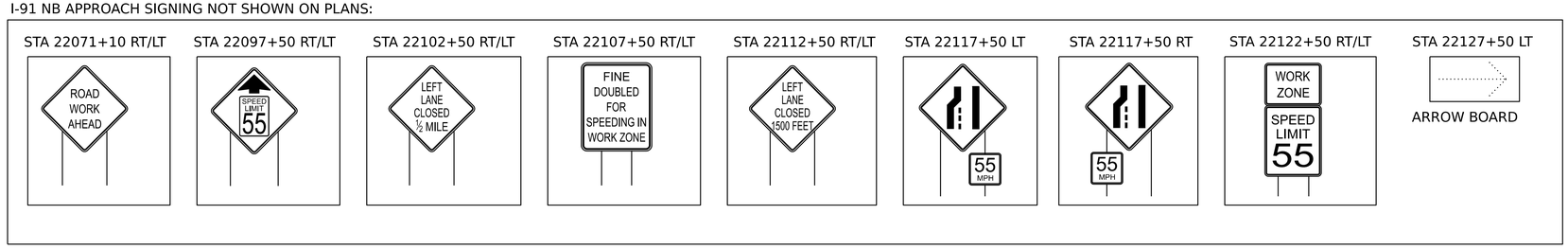
HNTB



LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL — SOLID WHITE LINE
- SYL — SOLID YELLOW LINE
- DWL — DOTTED WHITE LINE
- BWL — BROKEN WHITE LINE
- TRAFFIC FLOW ARROW
- FLASHING ARROW PANEL

I-91 NB APPROACH SIGNING NOT SHOWN ON PLANS:

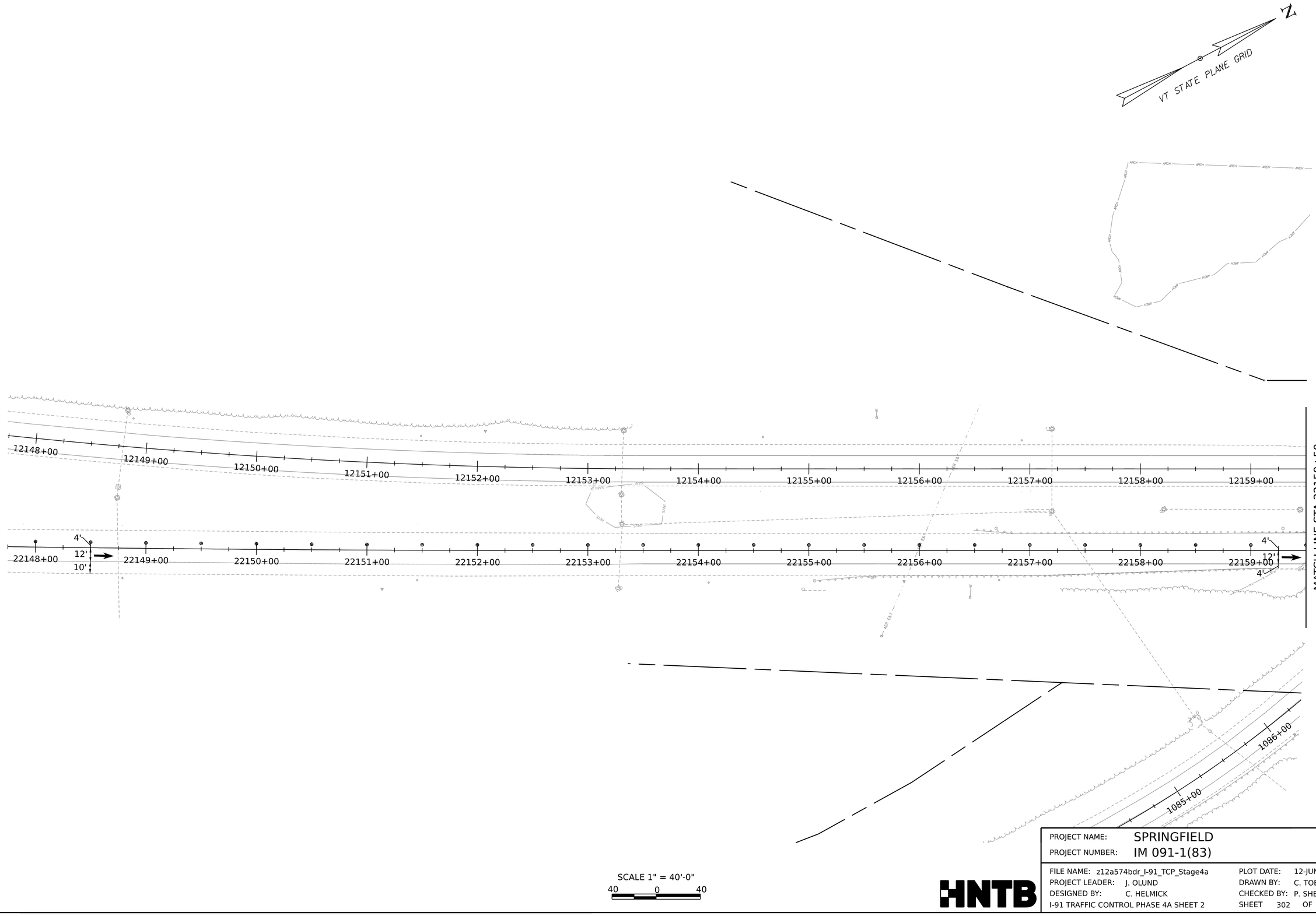


SCALE 1" = 40'-0"

40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage4a	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 1	SHEET 301 OF 922



SCALE 1" = 40'-0"

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HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage4a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 2		SHEET	302 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12163+75 TO 12171+50 RT
STA 22163+00 TO 22171+50 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22163+00 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12163+75 TO 12171+50 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12168+75 TO 12168+75 LT (SOLID)

PAVEMENT MARKING MASK
STA 12163+75 CL TO 12167+00 RT
STA 12168+75 CL TO 12171+50 LT
STA 12168+75 TO 12171+50 LT

VT STATE PLANE GRID

MATCH LINE STA 22159+50

MATCH LINE STA 22171+50

EXISTING R.O.W.

SWL

SYL

1:16 TAPER

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage4a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 3		SHEET	303 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12171+50 TO 12177+45 RT
STA 22171+50 TO 22177+00 LT

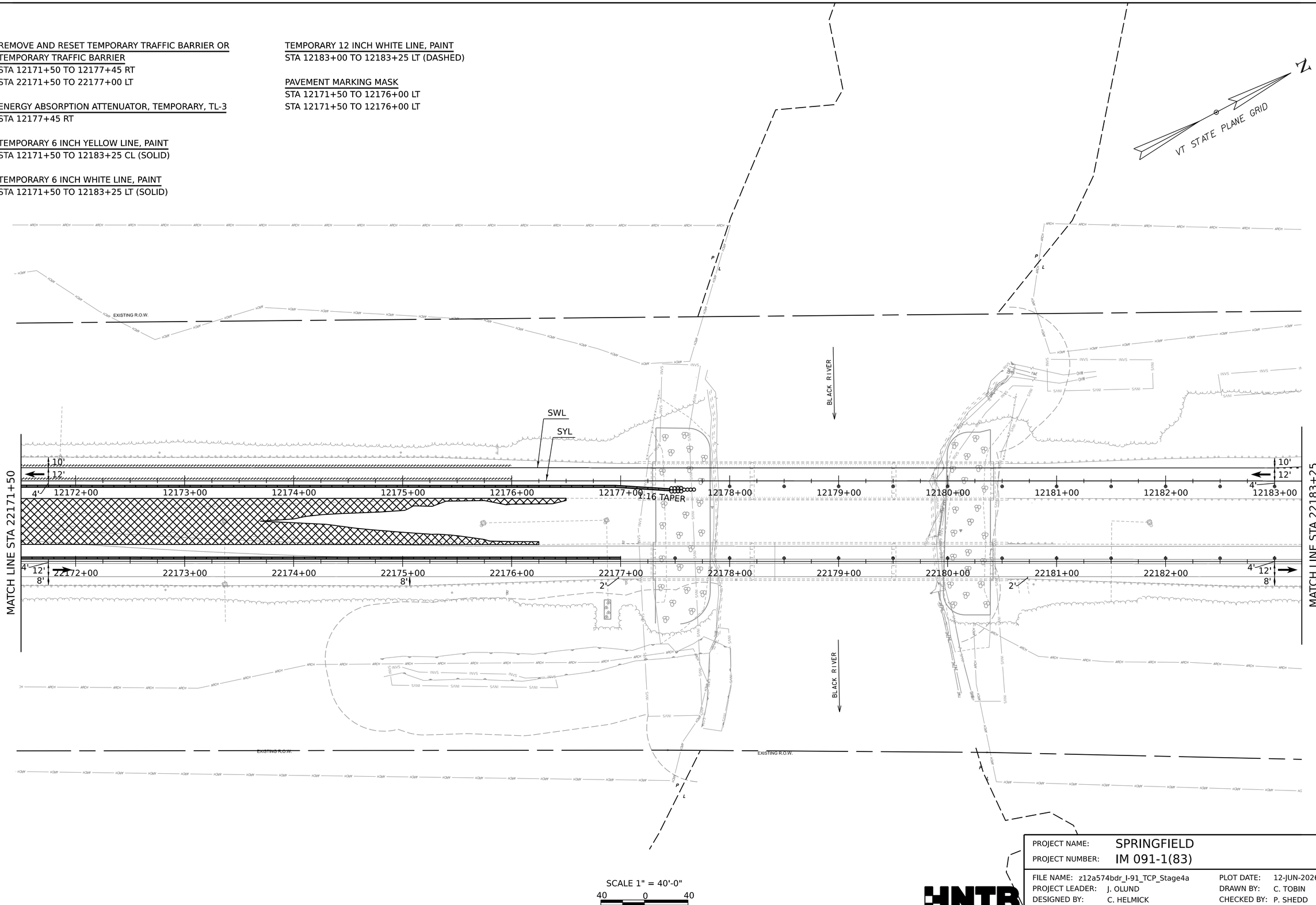
ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12177+45 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12171+50 TO 12183+25 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12171+50 TO 12183+25 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12183+00 TO 12183+25 LT (DASHED)

PAVEMENT MARKING MASK
STA 12171+50 TO 12176+00 LT
STA 12171+50 TO 12176+00 LT



SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_I-91_TCP_Stage4a	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 4	SHEET 304 OF 922

HNTB

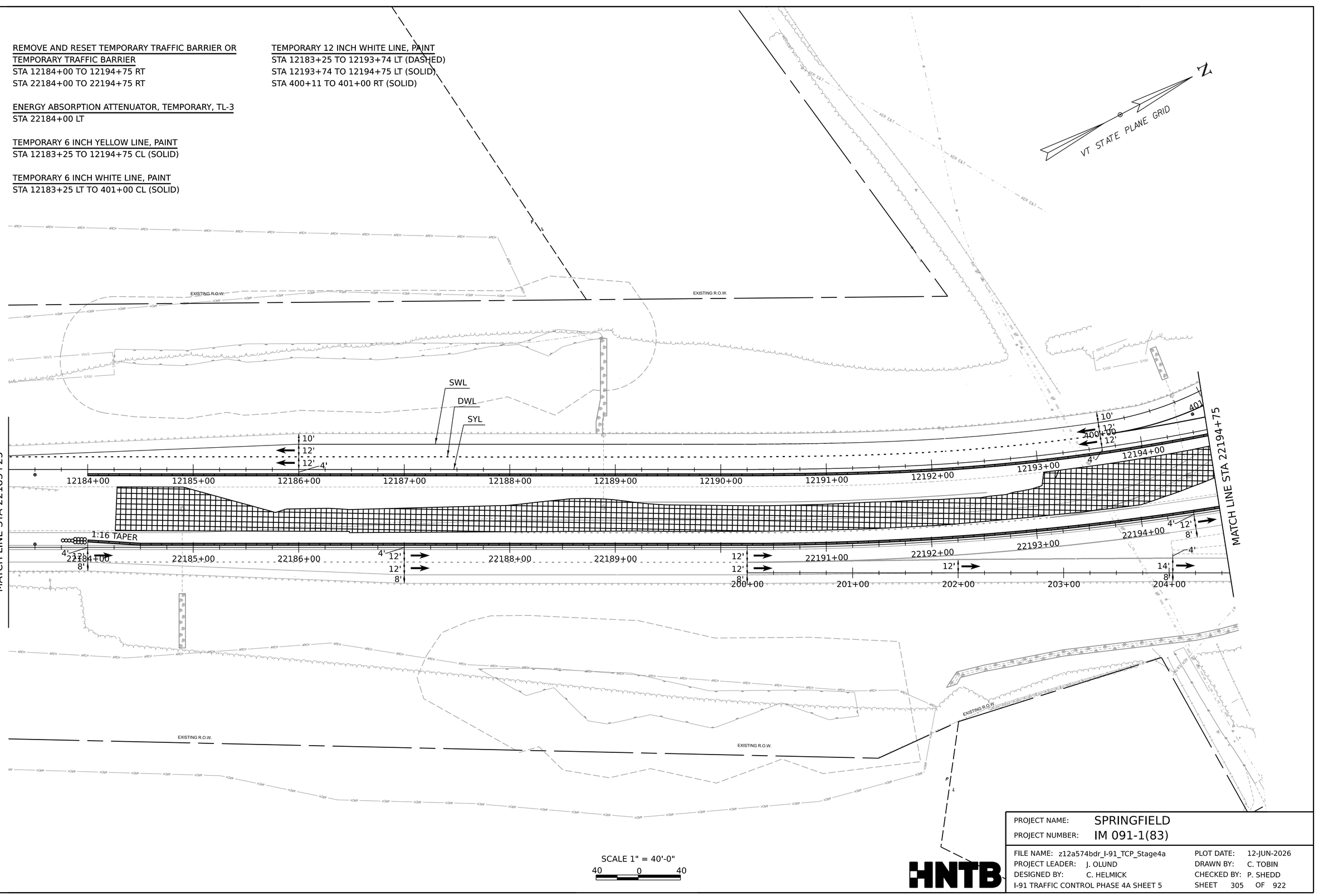
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12184+00 TO 12194+75 RT
STA 22184+00 TO 22194+75 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 22184+00 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12183+25 TO 12194+75 CL (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12183+25 LT TO 401+00 CL (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12183+25 TO 12193+74 LT (DASHED)
STA 12193+74 TO 12194+75 LT (SOLID)
STA 400+11 TO 401+00 RT (SOLID)



SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage4a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 5		SHEET	305 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12194+75 TO 12196+48 RT
STA 12195+00 TO 12198+13 LT
STA 22194+75 TO 22195+10 LT
STA 22201+50 TO 22206+50 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12196+48 RT
STA 22201+50 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12194+75 TO 12206+50 CL (SOLID)
STA 401+34 TO 405+39 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 12195+00 TO 12206+00 LT (SOLID)
STA 401+00 TO 405+39 CL (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12194+75 TO 12195+00 LT (SOLID)
STA 401+00 TO 401+34 RT (SOLID)

PAVEMENT MARKING MASK
STA 12194+75 RT TO 12195+31 LT
STA 12194+91 RT TO 12195+50 LT
STA 402+30 TO 405+39 RT
STA 402+90 TO 405+39 RT

VT STATE PLANE GRID

MATCH LINE STA 12206+50

MATCH LINE STA 22194+75

MATCH LINE STA 22206+50

1:16 TAPER

1:16 TAPER

SWL

SYL

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON CHARLESTOWN RD
NOT SHOWN, SEE CHARLESTOWN RD TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage4a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 6		SHEET	306 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 12206+50 TO 12215+49 RT
STA 22206+50 TO 22207+01 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 12215+49 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12206+50 TO 12216+25 CL (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 12207+35 TO 12212+43 LT (DASHED)

PAVEMENT MARKING MASK
STA 12207+35 LT TO 12214+25 RT
STA 12212+43 TO 12216+25 LT

VT STATE PLANE GRID

N

MATCH LINE STA 12206+50

DWL

SYL

12207+00 12208+00 12209+00 12210+00 12211+00 12212+00 12213+00 12214+00 12216+00

1:16 TAPER

MATCH LINE STA 12216+25

SPENCER BROOK

MATCH LINE STA 22206+50

22207+00 22208+00 22209+00 22210+00 22211+00 22212+00 22213+00 22214+00 22215+00 22216+00 22217+00

306+00 307+00 308+00 309+00 310+00 311+00

MATCH LINE STA 22217+25

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_I-91_TCP_Stage4a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 7		SHEET	307 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
STA 12216+25 TO 12229+00 RT (SOLID)

PAVEMENT MARKING MASK
STA 12216+25 LT TO 12229+00 LT

I-91 SB APPROACH SIGNING NOT SHOWN ON PLANS:

STA 12229+00 RT
ARROW BOARD

STA 12227+00 RT/LT
WORK ZONE
SPEED LIMIT 55

STA 12232+00 RT
55 MPH

STA 12232+00 LT
55 MPH

STA 12237+00 RT/LT
RIGHT LANE CLOSED 1500 FEET

STA 12242+00 RT/LT
FINE DOUBLED FOR SPEEDING IN WORK ZONE

STA 12247+00 RT/LT
LEFT LANE CLOSED ½ MILE

STA 12252+00 RT/LT
SPEED LIMIT 55

STA 12278+40 RT/LT
ROAD WORK AHEAD

STA 12222+00 LT
ROAD WORK NEXT 2 MILES

VT STATE PLANE GRID
N

MATCH LINE STA 12216+25

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

10'
12'
4'

12218+00 12219+00 12220+00 12222+00 12223+00 12224+00 12225+00 12226+00 12227+00 12228+00

10'
12' 4'

SYL

SPENCER BROOK

MATCH LINE STA 22217+25

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

4'
12'
12'
12'
12'
10'

22218+00 22219+00 22220+00 22221+00 22222+00 22223+00 22224+00 22225+00 22226+00 22227+00 22228+00

STA 22229+00 RT/LT
END ROAD WORK

STA 22234+00 RT
SPEED LIMIT 65

SCALE 1" = 40'-0"
40 0 40

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_I-91_TCP_Stage4a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
I-91 TRAFFIC CONTROL PHASE 4A SHEET 8		SHEET	308 OF 922

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 117+28 TO 118+61 RT (SOLID)
STA 124+90 TO 127+25 RT (SOLID)
STA 126+85 TO 127+25 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
STA 123+06 TO 124+43 RT (SOLID)
STA 123+06 TO 124+90 RT (SOLID)
STA 125+17 TO 126+85 LT (SOLID)
STA 125+17 TO 126+70 LT (SOLID)

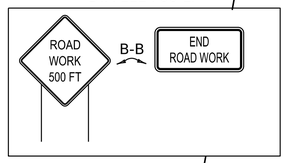
PAVEMENT MARKING MASK
STA 117+32 RT (THRU ARROW)
STA 118+53 RT (THRU ARROW)
STA 124+41 TO 124+89 RT

TEMPORARY LETTER OR SYMBOL, PAINT
STA 117+42 RT (RIGHT ARROW)
STA 118+53 RT (RIGHT ARROW)

STA 107+00 RT/LT



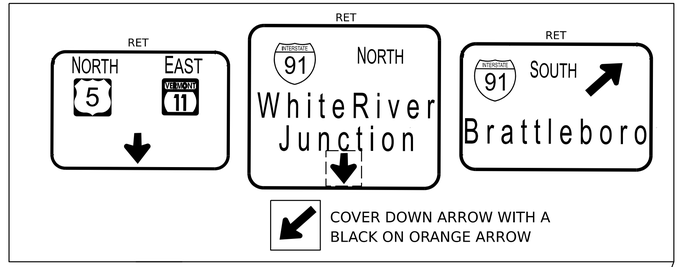
STA 112+00 LT



STA 112+00 RT



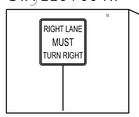
STA 124+47 RT (ON OVERHEAD SIGN STRUCTURE)



BEGIN CHARLESTOWN RD
US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

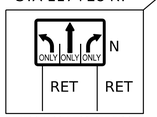
STA 1998+50.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

STA 116+00 RT



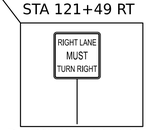
BLACK ON ORANGE

STA 117+28 RT



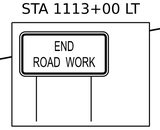
BLACK ON ORANGE,
COVER EXISTING SIGN

STA 121+49 RT

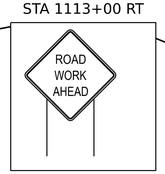


BLACK ON ORANGE,
COVER EXISTING SPEED
LIMIT 40 SIGN

STA 1113+00 LT



STA 1113+00 RT



N
VT STATE PLANE GRID

LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- DWL DOTTED WHITE LINE
- BWL BROKEN WHITE LINE
- TRAFFIC FLOW ARROW

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Route5_TCP_Stage1a
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD TCP PHASE 1A SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 309 OF 922

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 127+25 TO 128+92 RT (SOLID)
STA 127+25 TO 129+16 LT (SOLID)
STA 129+52 TO 135+58 LT (SOLID)
STA 129+63 TO 137+82 RT (SOLID)

PAVEMENT MARKING MASK
STA 129+16 TO 129+52 LT
STA 129+96 TO 138+44 RT
STA 132+27 RT (RIGHT TURN ARROW)
STA 133+00 RT (ONLY)
STA 133+72 RT (RIGHT TURN ARROW)
STA 134+53 RT (ONLY)
STA 135+26 RT (RIGHT TURN ARROW)
STA 136+05 RT (ONLY)
STA 136+78 RT (RIGHT TURN ARROW)
STA 137+82 TO 138+49 RT

BEGIN CHARLESTOWN RD
(US ROUTE 5/
VT ROUTE 11) PROJECT
STA. 129+00.00

END CHARLESTOWN RD (US ROUTE 5
/VT ROUTE 11) PROJECT
STA. 137+00.00

MATCH LINE STA 127+25

MATCH LINE STA 139+50

TRUCK CROSSING
STA 132+00 RT

ROAD CLOSED
MOUNTED ON
TYPE III BARRICADES

I-91 SOUTHBOUND OFF RAMP TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 NORTHBOUND OFF RAMP CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN, NH

I-91 ON RAMP TO I-91 SOUTHBOUND

I-91 SOUTHBOUND TO ROCKINGHAM

I-91 NORTHBOUND TO SPRINGFIELD

SWL

N

VT STATE PLANE GRID

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_Route5_TCP_Stage1a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 1A SHEET 2		SHEET 310	OF 922

HNTB

TEMPORARY 6 INCH WHITE LINE, PAINT
STA 141+18 LT TO I-91 NB OFF RAMP (75')
STA 141+35 RT TO I-91 NB ON RAMP (60')

PAVEMENT MARKING MASK
STA 141+18 LT TO I-91 NB OFF RAMP (112')
STA 141+35 RT TO I-91 NB ON RAMP (73')

TEMPORARY 24 INCH STOP BAR, PAINT
STA 141+52 LT (80')

TEMPORARY LETTER OR SYMBOL
STA 141+52 LT (STOP)

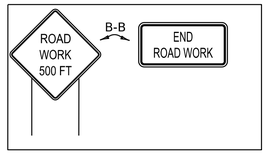
N

VT STATE PLANE GRID

STA 149+40 LT



STA 150+40 RT



STA 155+40 RT/LT



NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage1a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 1A SHEET 3		SHEET	311 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 1118+39 RT TO 127+25 RT

ENERGY ABSORBPTION ATTENUATOR, TEMPORARY, TL-3
STA 1118+39 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 1117+60 RT TO 127+25 RT (SOLID)
STA 119+85 TO 127+00 RT (BROKEN)
STA 127+00 TO 127+25 RT (SOLID)

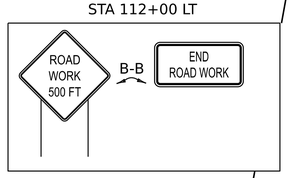
TEMPORARY LETTER OR SYMBOL, PAINT
STA 117+32 RT (THRU/RIGHT)
STA 118+50 RT (THRU/RIGHT)

PAVEMENT MARKING MASK
STA 1117+60 RT TO 124+80 RT
STA 119+85 TO 127+25 RT
STA 123+06 TO 125+01 RT
STA 124+89 TO 127+25 RT

STA 107+00 RT/LT



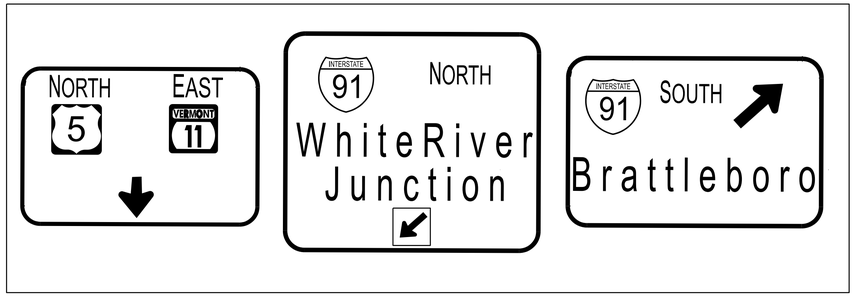
STA 112+00 LT

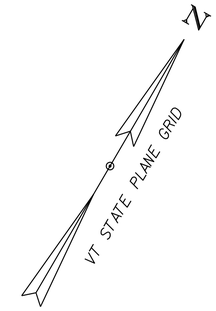


STA 112+00 RT



STA 124+47 RT (ON OVERHEAD SIGN STRUCTURE)
REMOVE OR COVER SIGNS PRIOR TO PHASE 1B START

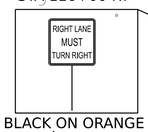




BEGIN CHARLESTOWN RD
US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

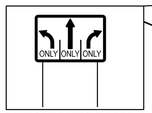
STA 1998+50.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

STA 116+00 RT



BLACK ON ORANGE

STA 117+28 RT



BLACK ON ORANGE,
COVER EXISTING SIGN

TRAIL CLOSED
DETOUR
MOUNTED ON
TYPE III BARRICADES

5' TEMPORARY
SIDEWALK

STA 121+49 RT

BLACK ON ORANGE,
COVER EXISTING SPEED
LIMIT 40 SIGN

ROAD CLOSED
MOUNTED ON
TYPE III BARRICADES

5' TEMPORARY
SIDEWALK

STA 127+00 RT

BLACK ON ORANGE

STA 1113+00 LT

STA 1113+00 RT

LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- DWL DOTTED WHITE LINE
- BWL BROKEN WHITE LINE
- TRAFFIC FLOW ARROW

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Route5_TCP_Stage1b
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD TCP PHASE 1B SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 312 OF 922

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 127+25 TO 128+75 RT (SOLID)
STA 127+25 TO 128+75 RT (SOLID)

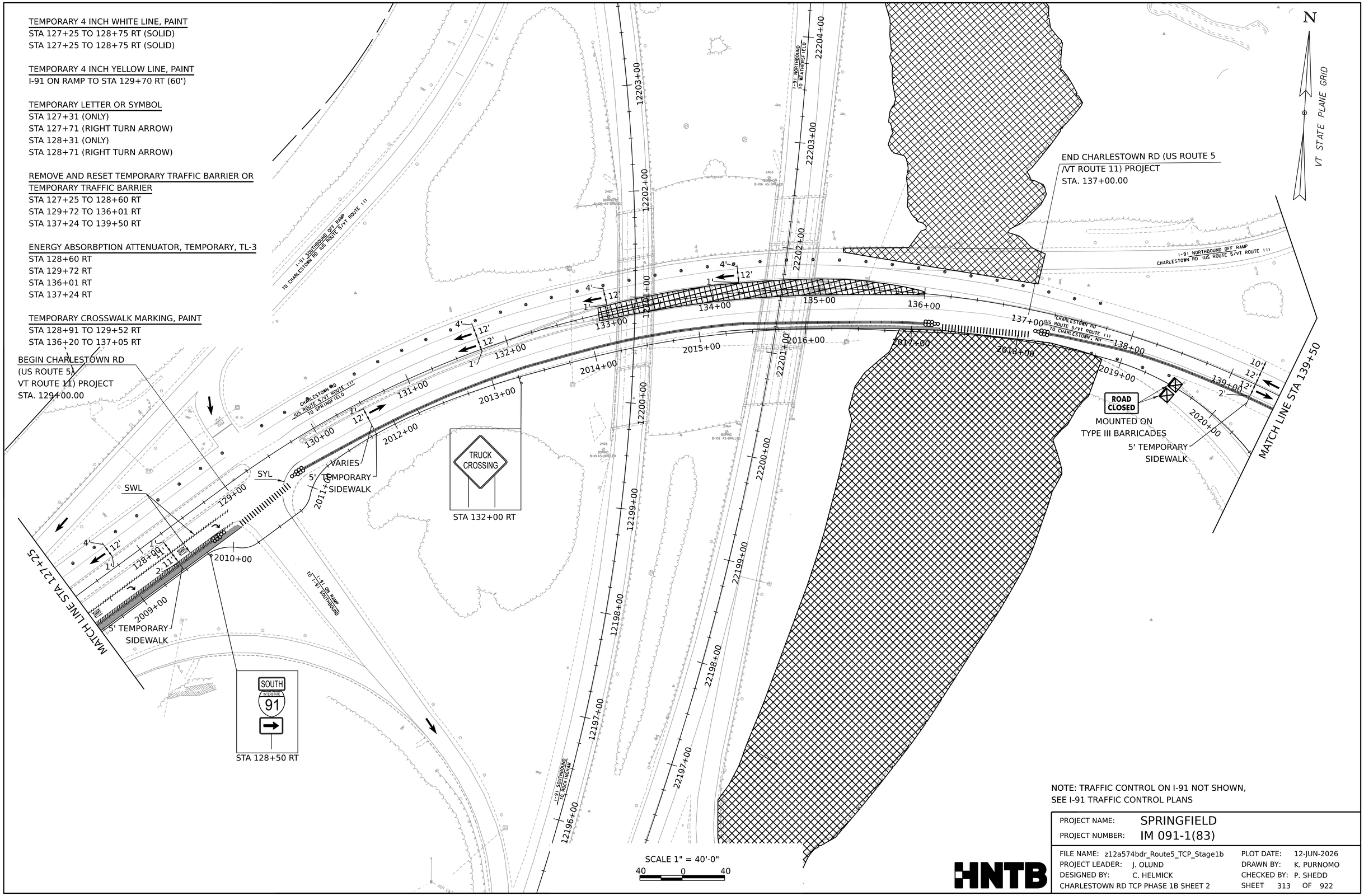
TEMPORARY 4 INCH YELLOW LINE, PAINT
I-91 ON RAMP TO STA 129+70 RT (60')

TEMPORARY LETTER OR SYMBOL
STA 127+31 (ONLY)
STA 127+71 (RIGHT TURN ARROW)
STA 128+31 (ONLY)
STA 128+71 (RIGHT TURN ARROW)

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 127+25 TO 128+60 RT
STA 129+72 TO 136+01 RT
STA 137+24 TO 139+50 RT

ENERGY ABSORBPTION ATTENUATOR, TEMPORARY, TL-3
STA 128+60 RT
STA 129+72 RT
STA 136+01 RT
STA 137+24 RT

TEMPORARY CROSSWALK MARKING, PAINT
STA 128+91 TO 129+52 RT
STA 136+20 TO 137+05 RT



NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage1b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 1B SHEET 2		SHEET	313 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 139+50 TO 141+30 RT
STA 142+42 TO 148+72 RT

ENERGY ABSORBPTION ATTENUATOR, TEMPORARY, TL-3
STA 141+30 RT
STA 142+42 RT
STA 148+72 RT

TEMPORARY CROSSWALK MARKING, PAINT
STA 141+48 TO 142+23 RT

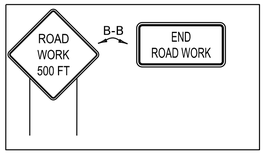
N

VT STATE PLANE GRID

STA 150+40 LT

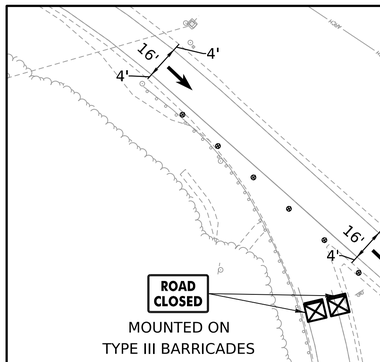


STA 150+40 RT

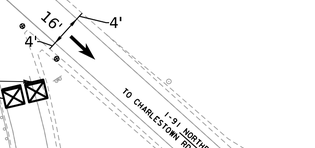


STA 155+40 RT/LT

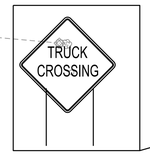


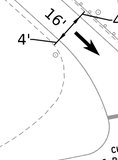


MOUNTED ON
TYPE III BARRICADES



STA 140+50 LT





END CHARLESTOWN RD (US ROUTE 5/
VT ROUTE 11) APPROACH
STA. 142+50.00
MATCH EXISTING

STA 141+30 RT

SCALE 1" =40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage1b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 1B SHEET 3		SHEET	314 OF 922

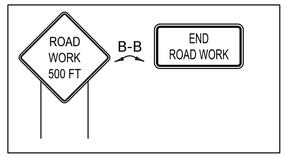
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 1118+39 RT TO 127+25 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 1118+39 RT

STA 107+00 RT/LT

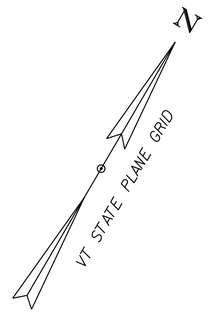


STA 112+00 LT



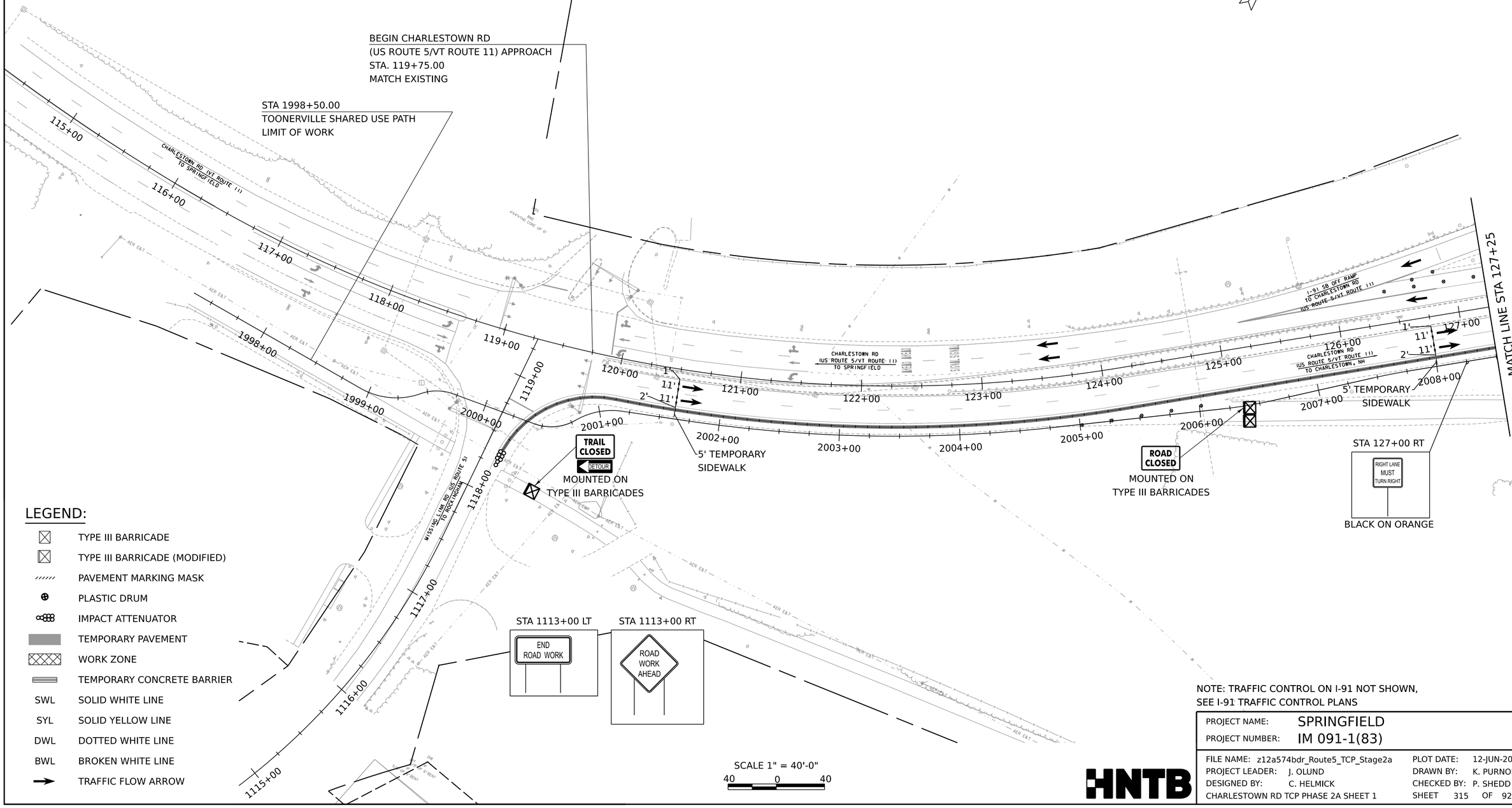
STA 112+00 RT





BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

STA 1998+50.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK



STA 1113+00 LT

STA 1113+00 RT

LEGEND:

	TYPE III BARRICADE
	TYPE III BARRICADE (MODIFIED)
	PAVEMENT MARKING MASK
	PLASTIC DRUM
	IMPACT ATTENUATOR
	TEMPORARY PAVEMENT
	WORK ZONE
	TEMPORARY CONCRETE BARRIER
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
DWL	DOTTED WHITE LINE
BWL	BROKEN WHITE LINE
	TRAFFIC FLOW ARROW

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Route5_TCP_Stage2a
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
CHARLESTOWN RD TCP PHASE 2A SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. SHEDD
SHEET 315 OF 922

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 129+49 TO 136+01 RT (SOLID)
STA 132+75 TO 135+96 LT (SOLID)
STA 135+50 TO 136+00 RT (SOLID)
STA 136+82 TO 137+82 RT (SOLID)
STA 136+97 TO 138+23 LT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA 129+84 TO 136+00 RT (SOLID)
STA 133+18 TO 136+00 LT (SOLID)

TEMPORARY LETTER OR SYMBOL, PAINT
STA 135+80 RT (LEFT TURN ARROW)

PAVEMENT MARKING MASK
STA 129+46 TO 137+82 RT
STA 129+84 RT TO 137+00 LT
STA 132+75 TO 138+23 LT
STA 133+18 TO 137+00 LT

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 127+25 TO 128+60 RT
STA 129+72 TO 136+02 RT
STA 132+22 TO 135+25 RT
STA 132+91 TO 135+60 LT
STA 132+98 TO 135+75 LT
STA 134+36 TO 135+23 LT
STA 137+24 TO 139+50 RT
STA 139+22 TO 139+50 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 128+60 RT
STA 129+72 RT
STA 132+22 RT
STA 133+75 LT
STA 135+23 LT
STA 135+60 LT
STA 136+02 RT
STA 137+24 RT
STA 139+22 LT

BEGIN CHARLESTOWN RD
(US ROUTE 5)
VT ROUTE 11) PROJECT
STA. 129+00.00

END CHARLESTOWN RD(US ROUTE 5
/VT ROUTE 11) PROJECT
STA. 137+00.00

MATCH LINE STA 127+25

MATCH LINE STA 139+50

CONTRACTOR ACCESS

SWL

SYL

5' TEMPORARY SIDEWALK

ROAD CLOSED
MOUNTED ON TYPE III BARRICADE

STA 136+75 LT

STA 136+00 RT

STA 136+16 RT
STA 136+80 RT

STA 136+10 RT
STA 136+90 RT

STA 128+50 RT

I-91 SOUTHBOUND OFF RAMP TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 ON RAMP TO I-91 SOUTHBOUND

I-91 SOUTHBOUND TO ROCKINGHAM

I-91 NORTHBOUND TO KEENE/SPFLD

I-91 NORTHBOUND OFF RAMP

I-91 ON RAMP NORTHBOUND

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN, NH

VT STATE PLANE GRID

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage2a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 2A SHEET 2		SHEET 316 OF 922	

HNTB

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 141+18 TO 142+02 LT (SOLID)
STA 141+35 TO 142+38 RT (SOLID)

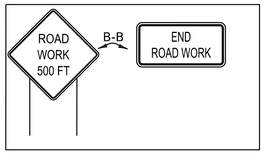
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 139+50 TO 148+72 RT
STA 139+50 TO 142+95 LT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 142+95 LT
STA 148+72 RT

STA 150+40 LT



STA 150+40 RT



STA 155+40 RT/LT



N

VT STATE PLANE GRID

END CHARLESTOWN RD (US ROUTE 5/ VT ROUTE 11) APPROACH
STA. 142+50.00
MATCH EXISTING

MATCH LINE STA 1339+50

1:12 TAPER

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

SWL

4'
12'
12'
2'
5' TEMPORARY SIDEWALK

10'
12'
12'
4'

140+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
148+00
149+00

ROAD CLOSED
MOUNTED ON TYPE III BARRICADES

2021+00
2022+00
2023+00
2024+00
2025+00

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

YOUNGS RD (TH-69)

SCALE 1" =40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

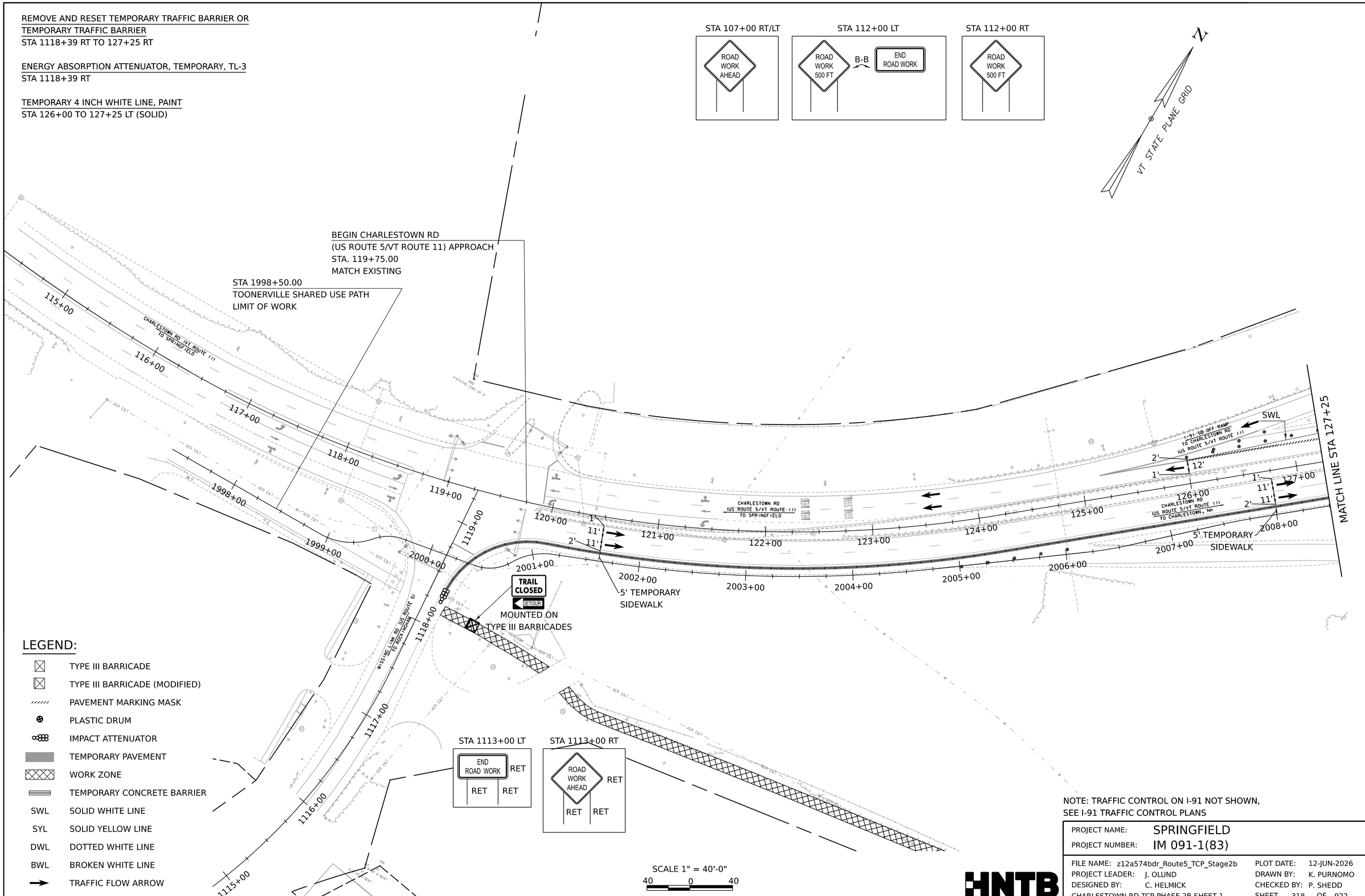
FILE NAME:	z12a574bdr_Route5_TCP_Stage2a	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 2A SHEET 3		SHEET	317 OF 922

HNTB

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 1118+39 RT TO 127+25 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 1118+39 RT

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 126+00 TO 127+25 LT (SOLID)



LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- DWL DOTTED WHITE LINE
- BWL BROKEN WHITE LINE
- TRAFFIC FLOW ARROW

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN, SEE I-91 TRAFFIC CONTROL PLANS

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage2b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 2B SHEET 1		SHEET	318 OF 922

TEMPORARY 4 INCH WHITE LINE, PAINT
STA 127+25 TO 129+00 LT (SOLID)
STA 134+25 TO 136+04 LT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA 129+85 TO 136+00 LT (SOLID)

TEMPORARY LETTER OR SYMBOL, PAINT
STA 130+00 LT (LEFT TURN ONLY)
STA 130+85 LT (LEFT TURN ONLY)
STA 131+73 LT (LEFT TURN ONLY)

PAVEMENT MARKING MASK
STA 131+75 TO 136+04 LT

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR TEMPORARY TRAFFIC BARRIER
STA 127+25 TO 128+60 RT
STA 129+72 TO 136+02 RT
STA 132+22 TO 135+25 RT
STA 132+91 TO 135+60 LT
STA 132+98 TO 135+35 LT
STA 134+36 TO 135+23 LT
STA 137+24 TO 138+46 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 128+60 RT
STA 129+72 RT
STA 132+22 RT
STA 133+35 LT
STA 135+23 LT
STA 135+35 LT
STA 136+02 RT
STA 137+24 RT

BEGIN CHARLESTOWN RD (US ROUTE 5) VT ROUTE 11) PROJECT STA. 129+00.00

END CHARLESTOWN RD (US ROUTE 5 /VT ROUTE 11) PROJECT STA. 137+00.00

MATCH LINE STA 127+25

MATCH LINE STA 139+50

N

VT STATE PLANE GRID

STA 136+10 LT

STA 136+00 RT

STA 136+16 RT
STA 136+80 RT

STA 136+10 RT
STA 136+90 RT

STA 128+50 RT

DWL
SYL
SWL

5' TEMPORARY SIDEWALK

1:10 TAPER
1:13 TAPER

I-91 SOUTHBOUND OFF RAMP TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 NORTHBOUND ON RAMP

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN, NH

I-91 ON RAMP TO I-91 SOUTHBOUND

I-91 SOUTHBOUND TO ROCKINGHAM

I-91 NORTHBOUND OFF RAMP

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN, SEE I-91 TRAFFIC CONTROL PLANS

SCALE 1" = 40'-0"
40 0 40

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_Route5_TCP_Stage2b	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
CHARLESTOWN RD TCP PHASE 2B SHEET 2	SHEET 319 OF 922

HNTB

PAVEMENT MARKING MASK
STA 141+48 TO 142+23 RT

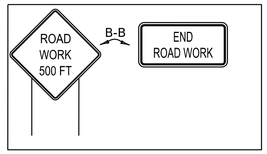
N

VT STATE PLANE GRID

STA 149+40 LT



STA 150+40 RT



STA 155+40 RT/LT



END CHARLESTOWN RD (US ROUTE 5/
VT ROUTE 11) APPROACH
STA. 142+50.00
MATCH EXISTING

MATCH LINE STA 1369+50

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

140+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
148+00
149+00
2021+00
2022+00
2023+00
2024+00
2025+

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

YOUNGS RD (TH-69)

SCALE 1" =40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage2b	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 2B SHEET 3		SHEET	320 OF 922

HNTB

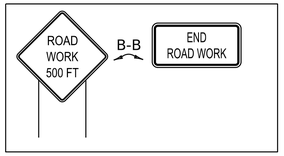
REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 1118+39 RT TO STA 127+25 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 1118+39 RT

STA 107+00 RT/LT

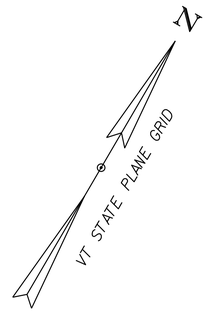


STA 112+00 LT



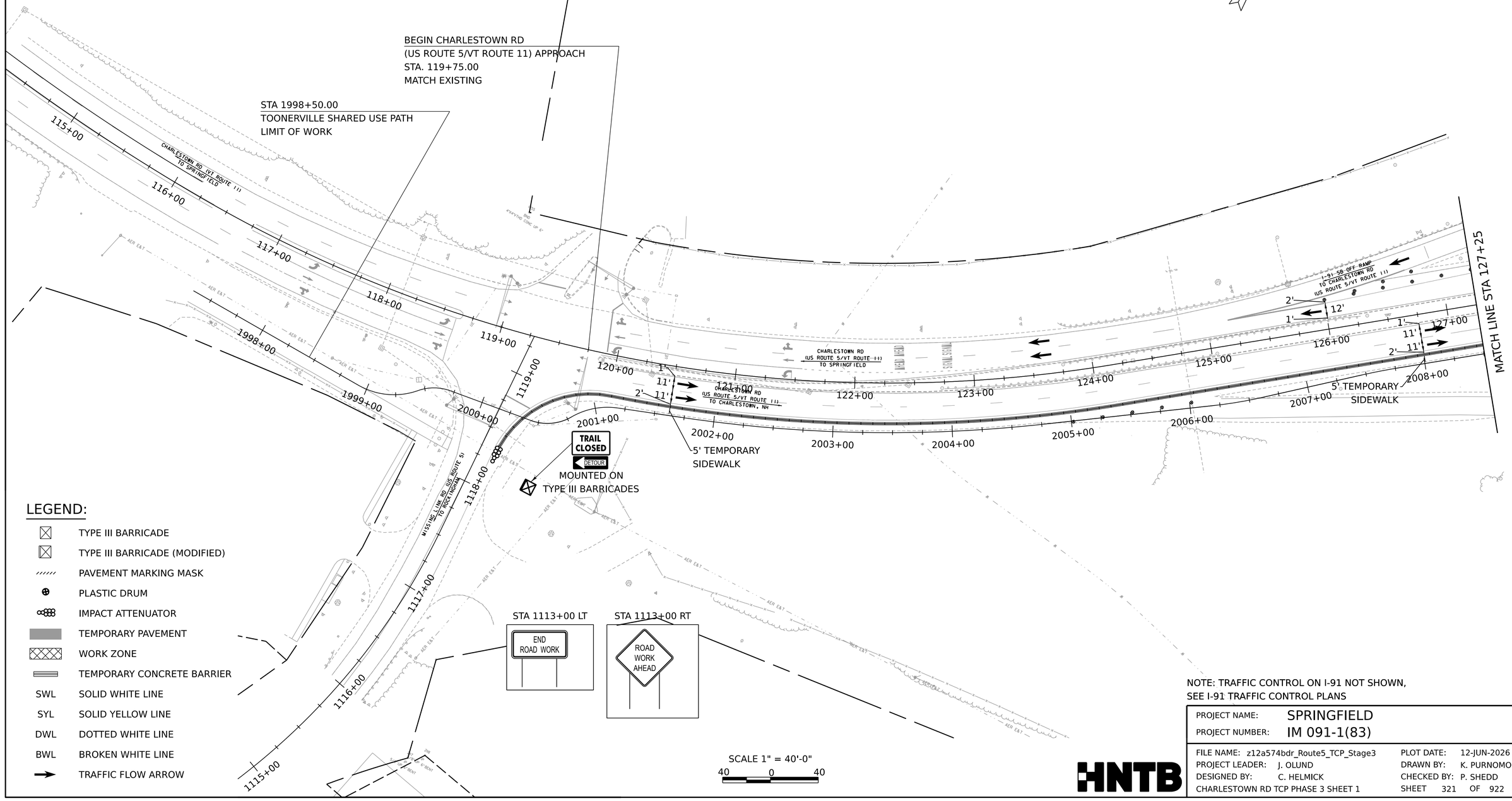
STA 112+00 RT





BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

STA 1998+50.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK



STA 1113+00 LT

STA 1113+00 RT

LEGEND:

- TYPE III BARRICADE
- TYPE III BARRICADE (MODIFIED)
- PAVEMENT MARKING MASK
- PLASTIC DRUM
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT
- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- DWL DOTTED WHITE LINE
- BWL BROKEN WHITE LINE
- TRAFFIC FLOW ARROW

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage3	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 3 SHEET 1		SHEET	321 OF 922

REMOVE AND RESET TEMPORARY TRAFFIC BARRIER OR
TEMPORARY TRAFFIC BARRIER
STA 127+25 TO 128+60 RT
STA 129+72 TO 136+02 RT
STA 132+22 TO 135+25 RT
STA 132+50 TO 133+75 RT
STA 132+98 TO 135+35 LT
STA 137+24 TO 138+46 RT

ENERGY ABSORPTION ATTENUATOR, TEMPORARY, TL-3
STA 128+60 RT
STA 129+72 RT
STA 132+22 RT
STA 135+35 LT
STA 136+02 RT
STA 137+24 RT

BEGIN CHARLESTOWN RD
(US ROUTE 5)
VT ROUTE 11) PROJECT
STA. 129+00.00

END CHARLESTOWN RD (US ROUTE 5
/VT ROUTE 11) PROJECT
STA. 137+00.00

MATCH LINE STA 139+50

MATCH LINE STA 127+25

STA 136+10 LT

STA 136+00 RT

STA 136+16 RT
STA 136+80 RT

STA 136+10 RT
STA 136+90 RT

STA 128+50 RT

I-91 SOUTHBOUND OFF RAMP TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 NORTHBOUND ON RAMP TO WEATHERSFIELD

I-91 NORTHBOUND ON RAMP

I-91 NORTHBOUND OFF RAMP

I-91 OFF RAMP TO I-91 SOUTHBOUND

I-91 SOUTHBOUND TO ROCKINGHAM

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) CHARLESTOWN, NH

5' TEMPORARY SIDEWALK

1:10 TAPER

1:13 TAPER

VT STATE PLANE GRID

SCALE 1" = 40'-0"
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage3	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 3 SHEET 2		SHEET	322 OF 922

HNTB

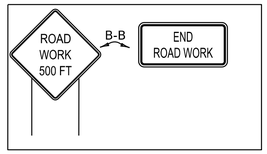
N

VT STATE PLANE GRID

STA 149+40 LT



STA 150+40 RT



STA 155+40 RT/LT



END CHARLESTOWN RD (US ROUTE 5/
VT ROUTE 11) APPROACH
STA. 142+50.00
MATCH EXISTING

MATCH LINE STA 139+50

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
US ROUTE 5/VT ROUTE 11
TO CHARLESTOWN, NH

140+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
148+00
149+00
2021+00
2022+00
2023+00
2024+00
2025+

SCALE 1" =40'-0"

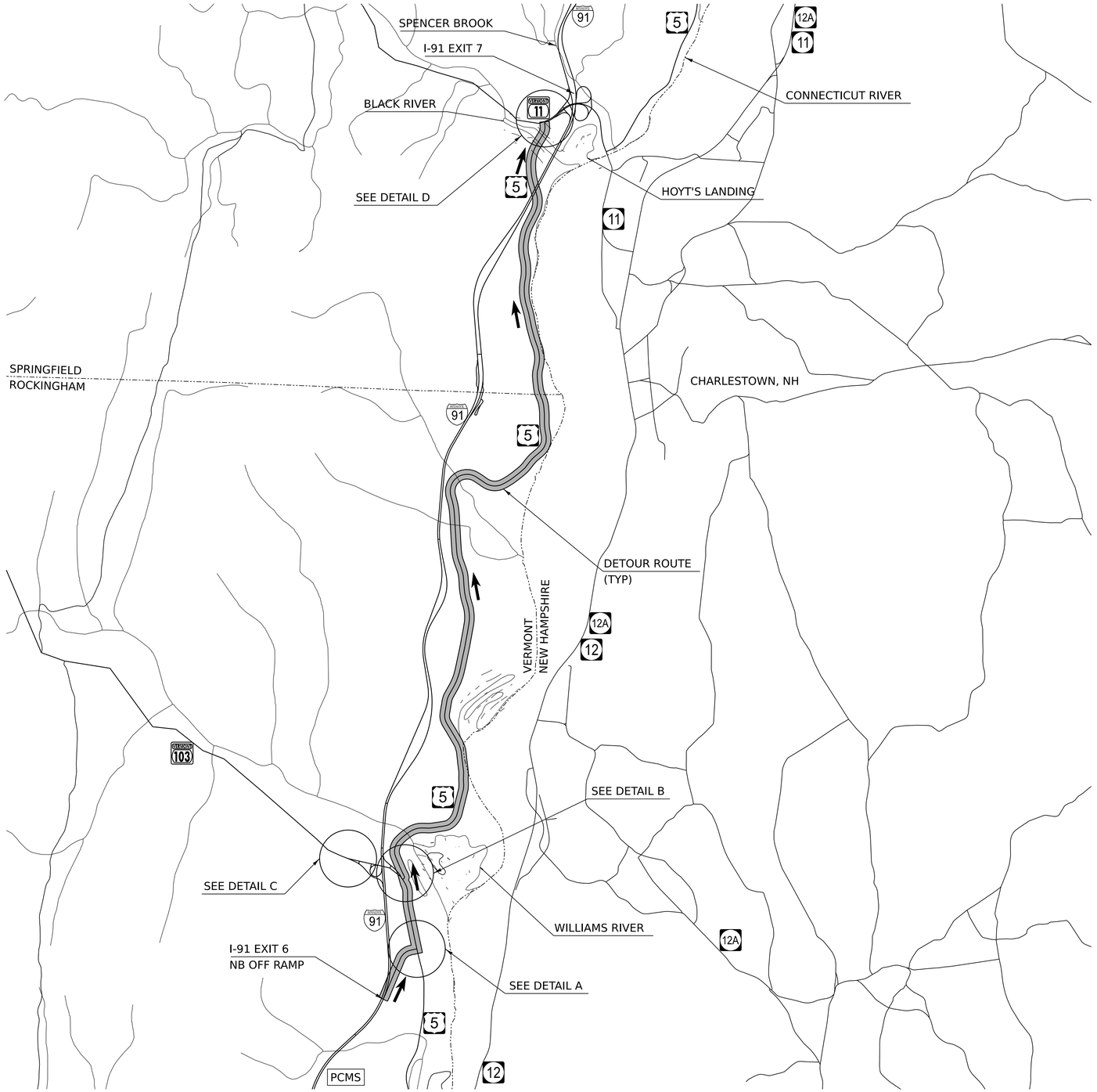
40 0 40

NOTE: TRAFFIC CONTROL ON I-91 NOT SHOWN,
SEE I-91 TRAFFIC CONTROL PLANS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Route5_TCP_Stage3	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
CHARLESTOWN RD TCP PHASE 3 SHEET 3		SHEET	323 OF 922

HNTB



N

VT STATE PLANE GRID

REGIONAL DETOUR NOTES:

1. THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FULLY OPERATIONAL A MINIMUM OF TWO WEEKS PRIOR TO THE CLOSURE OF I-91.

2. DETOUR SIGNS SHALL BE LOCATED ADJACENT TO EXISTING INTERSECTION ROUTE MARKER ASSEMBLIES WHERE APPLICABLE. EXISTING SIGNS THAT CONFLICT WITH THE DETOUR SHALL BE COVERED. SIGN COVERING SHALL NOT DAMAGE THE RETRO-REFLECTIVITY OF THE SIGN FACE. ALSO, THE SIGN COVER SHALL NOT DETERIORATE FOR THE DURATION THAT THE SIGN IS COVERED.

3. THIS DETOUR PLAN IS A CONCEPTUAL OUTLINE ONLY AND THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN OF EACH INTERSECTION SHOWING DETOUR SIGN LOCATIONS IN RELATION TO EXISTING SIGNS. THE DETAILED PLAN SHALL INCLUDE THE LOCATIONS OF THE PORTABLE CHANGEABLE MESSAGE SIGNS.

4. SIGNS INSTALLED ON I-91 SHALL CONFORM TO THE FREEWAY/EXPRESSWAY STANDARD. SIGNS INSTALLED ON STATE ROUTES AND TOWN HIGHWAYS SHALL CONFORM TO THE CONVENTIONAL ROAD STANDARD.

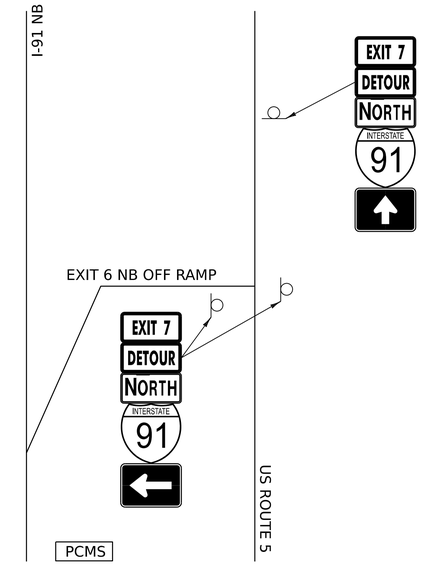
REGIONAL DETOUR MAP - EXIT 7 NB OFF RAMP CLOSURE

(N0T TO SCALE)

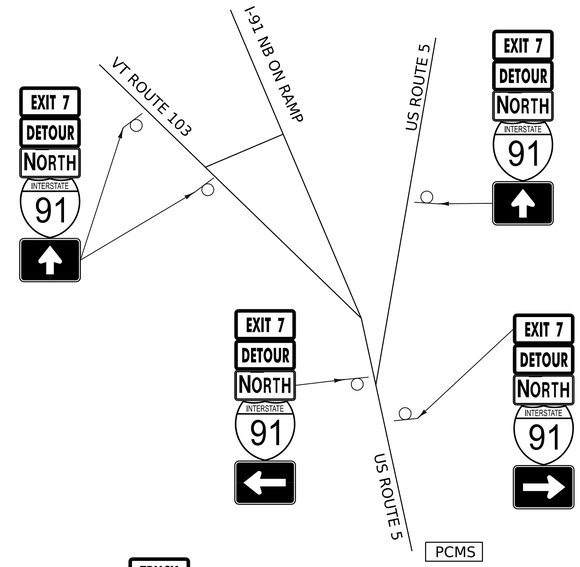
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)

FILE NAME:	z12a574detmap.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. SHEDD
REGIONAL DETOUR MAP - I-91 NB OFF RAMP		SHEET	324 OF 922

HNTB



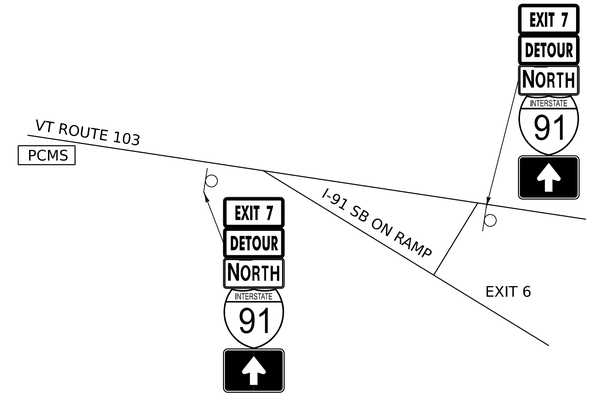
DETAIL A



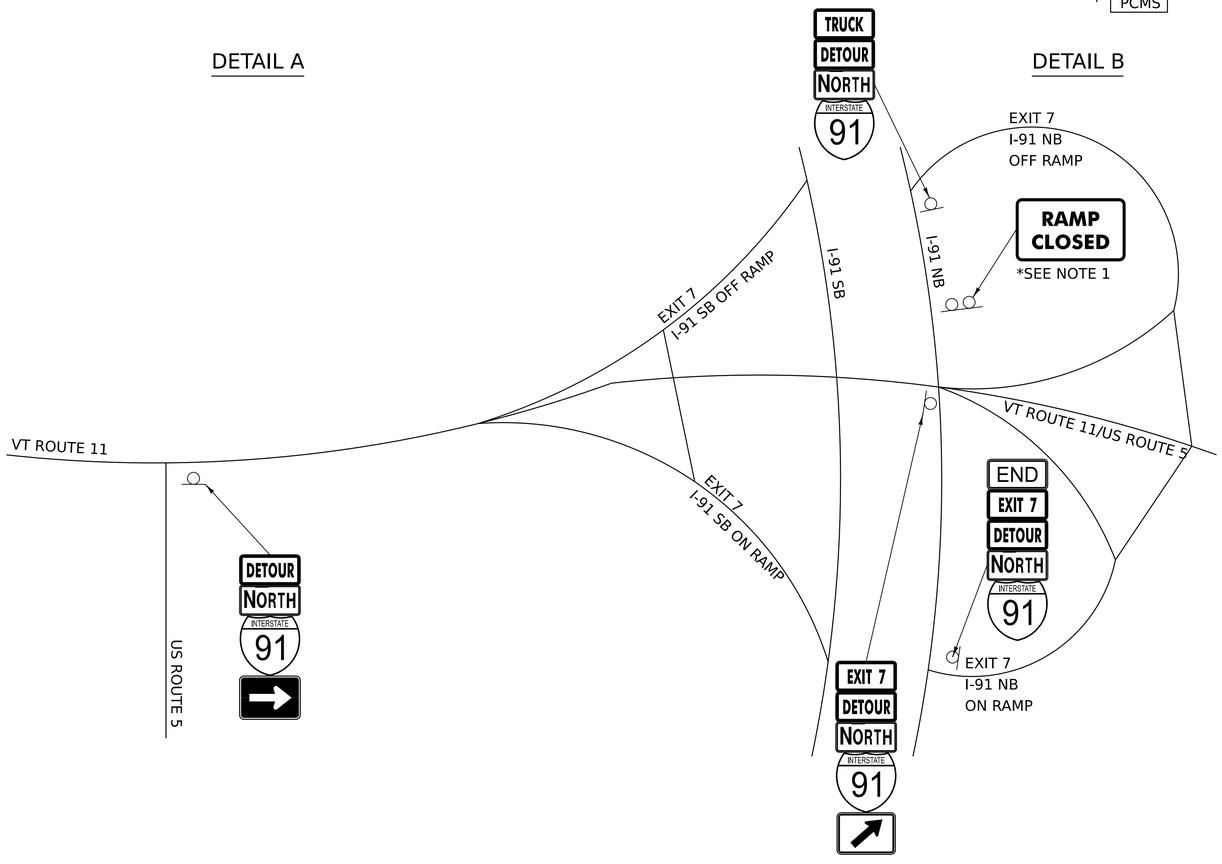
DETAIL B

NOTES:

1. EXIT 7 ACCELERATION/DECELERATION SHALL BE CLOSED WITH DRUMS. RAMP CLOSED SIGN MOUNTED ON TYPE III BARRICADES SHALL BE PLACED IN THE CLOSED LANE.



DETAIL C



DETAIL D

*	M	M	M	M		D	D	–
*	M	M	M	M		D	D	

PORTABLE CHANGEABLE SIGN – PHASE 1

I	–	9	1				
E	X	I	T		7		
C	L	O	S	E	D		

PORTABLE CHANGEABLE SIGN – PHASE 2

*M = MONTH
D = DAY

D	E	T	O	U	R		
U	S	E					
E	X	I	T		6		

PORTABLE CHANGEABLE SIGN – PHASE 3

FOR DETAIL A

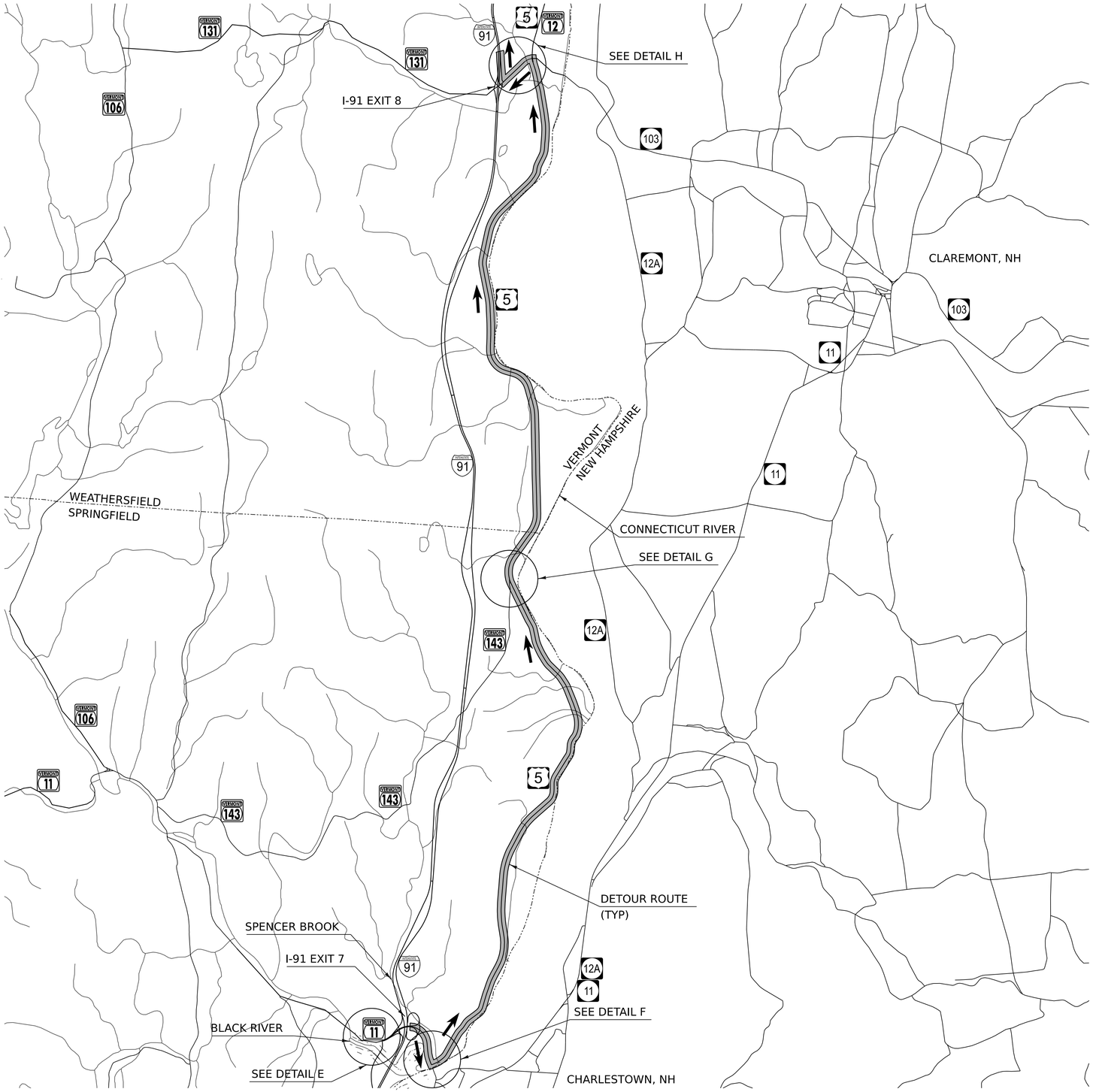
D	E	T	O	U	R		
A	H	E	A	D			

PORTABLE CHANGEABLE SIGN – PHASE 3

FOR DETAIL B & C

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)
FILE NAME: z12a574detmap.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. SHEDD
DETOUR DETAILS 1	SHEET 325 OF 922



REGIONAL DETOUR MAP - EXIT 7 NB ON RAMP CLOSURE

(NOT TO SCALE)

N

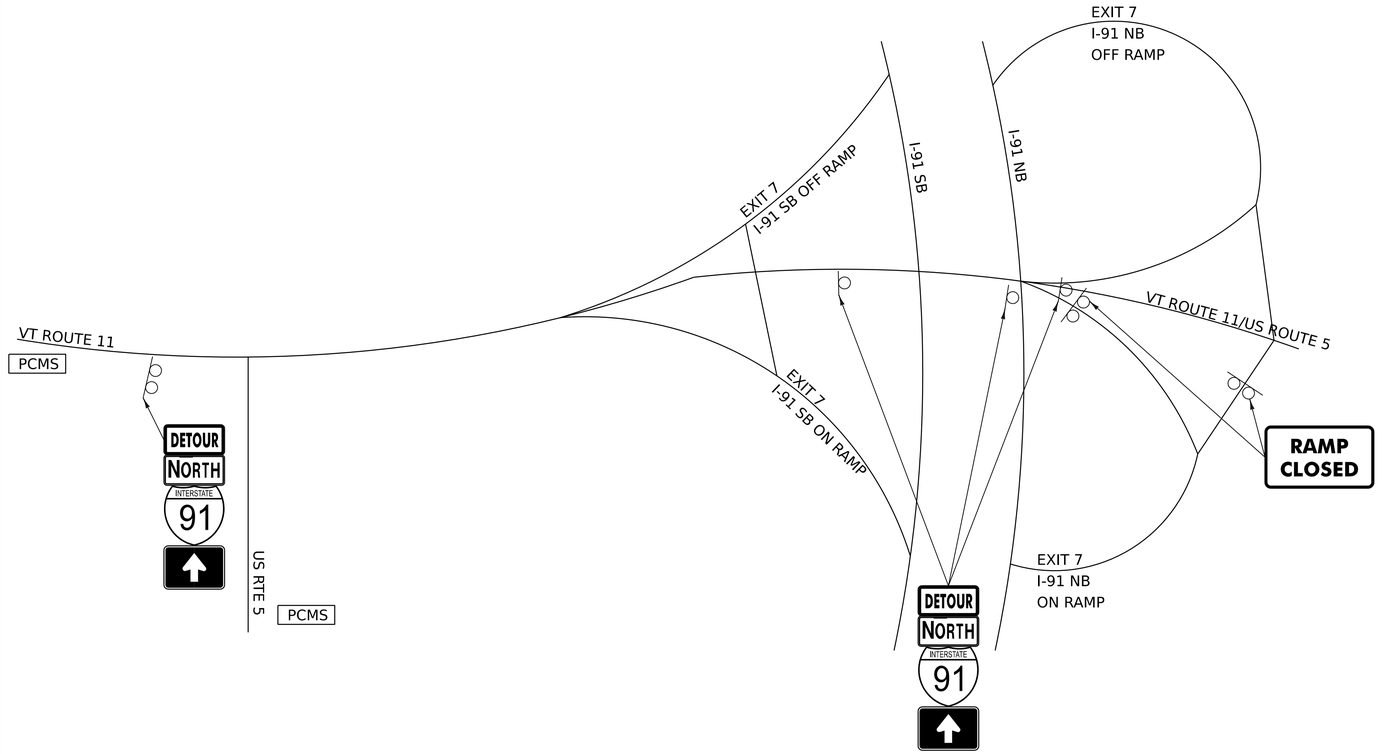
VT STATE PLANE GRID

REGIONAL DETOUR NOTES:

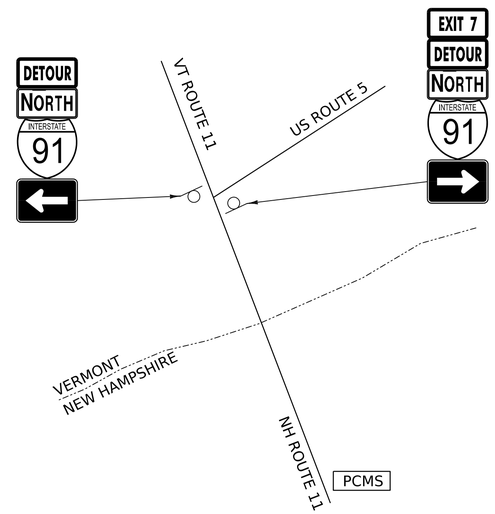
1. THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FULLY OPERATIONAL A MINIMUM OF TWO WEEKS PRIOR TO THE CLOSURE OF I-91.
2. DETOUR SIGNS SHALL BE LOCATED ADJACENT TO EXISTING INTERSECTION ROUTE MARKER ASSEMBLIES WHERE APPLICABLE. EXISTING SIGNS THAT CONFLICT WITH THE DETOUR SHALL BE COVERED. SIGN COVERING SHALL NOT DAMAGE THE RETRO-REFLECTIVITY OF THE SIGN FACE. ALSO, THE SIGN COVER SHALL NOT DETERIORATE FOR THE DURATION THAT THE SIGN IS COVERED.
3. THIS DETOUR PLAN IS A CONCEPTUAL OUTLINE ONLY AND THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN OF EACH INTERSECTION SHOWING DETOUR SIGN LOCATIONS IN RELATION TO EXISTING SIGNS. THE DETAILED PLAN SHALL INCLUDE THE LOCATIONS OF THE PORTABLE CHANGEABLE MESSAGE SIGNS.
4. SIGNS INSTALLED ON I-91 SHALL CONFORM TO THE FREEWAY/EXPRESSWAY STANDARD. SIGNS INSTALLED ON STATE ROUTES AND TOWN HIGHWAYS SHALL CONFORM TO THE CONVENTIONAL ROAD STANDARD.

HNTB

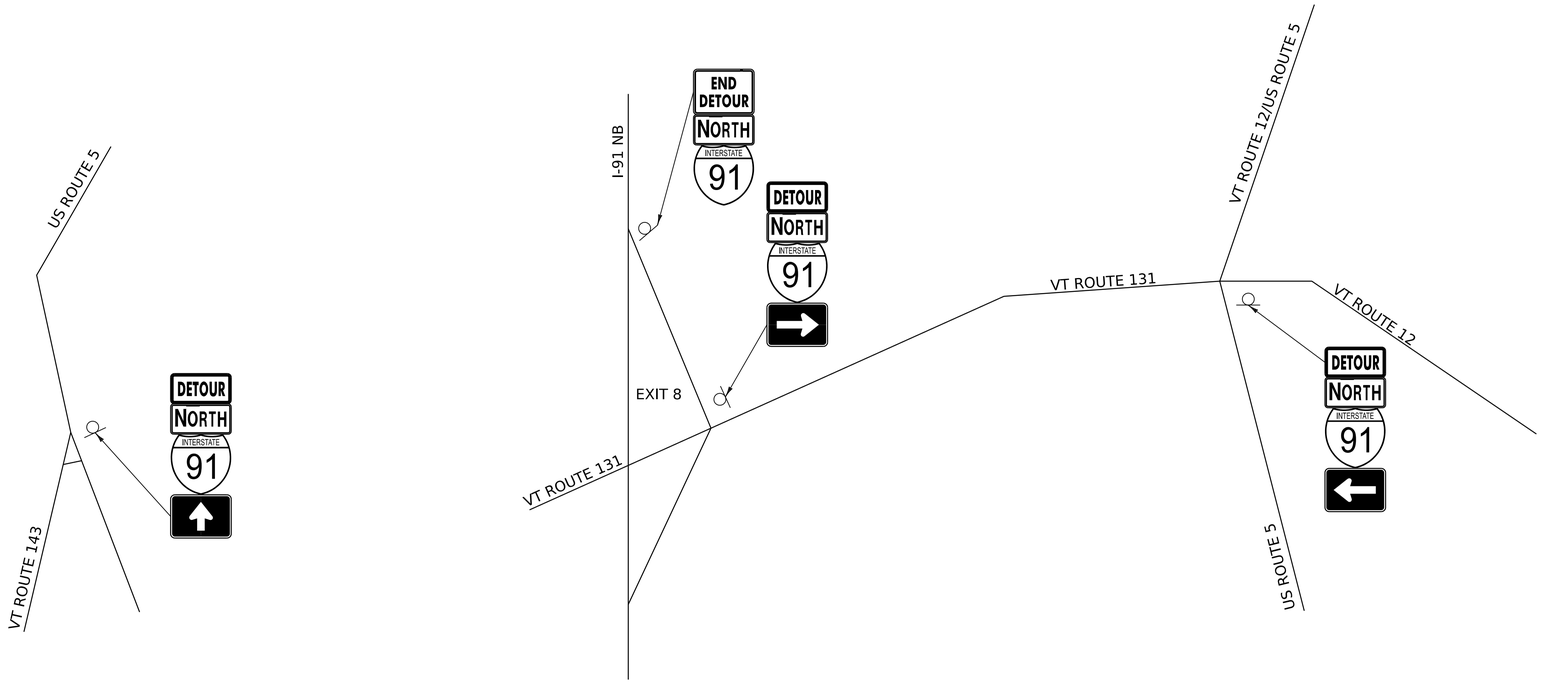
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-I(83)		
FILE NAME:	z12a574detmap.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. SHEDD
REGIONAL DETOUR MAP - I-91 NB ON RAMP		SHEET	326 OF 922



DETAIL E



DETAIL F



DETAIL G

DETAIL H

*	M	M	M	M		D	D	–
*	M	M	M	M		D	D	

PORTABLE CHANGEABLE SIGN – PHASE 1

I	–	9	1		N	B		
O	N		R	A	M	P		
C	L	O	S	E	D			

PORTABLE CHANGEABLE SIGN – PHASE 2

*M = MONTH
D = DAY

D	E	T	O	U	R			
A	H	E	A	D				

PORTABLE CHANGEABLE SIGN – PHASE 3

FOR DETAIL E

D	E	T	O	U	R			
U	S	E						
R	O	U	T	E		5		

PORTABLE CHANGEABLE SIGN – PHASE 3

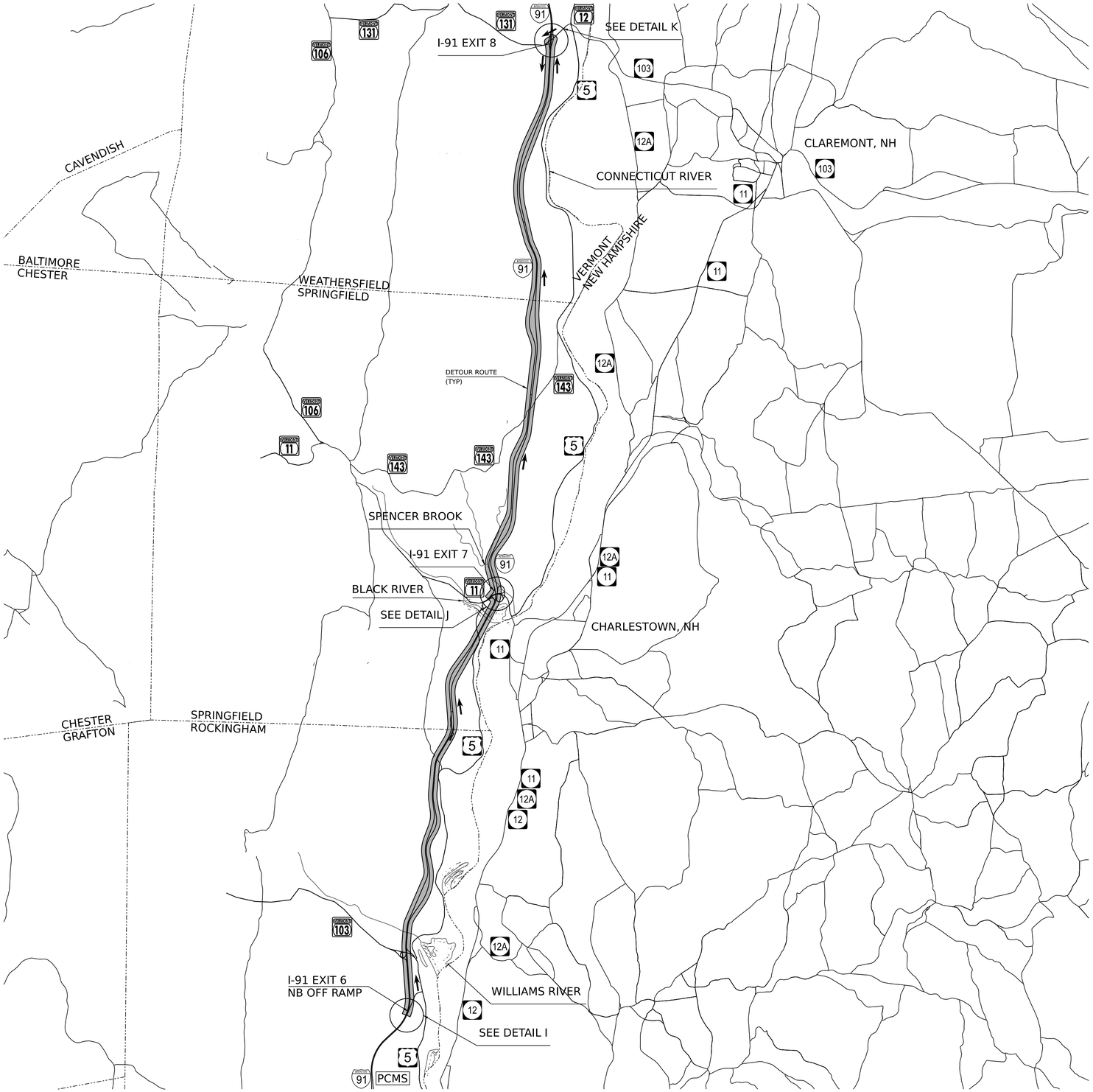
FOR DETAIL F

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-I(83)

FILE NAME: z12a574detmap.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
DETOUR DETAILS 2

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. SHEDD
SHEET 327 OF 922



N

VT STATE PLANE GRID

REGIONAL DETOUR NOTES:

1. THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE FULLY OPERATIONAL A MINIMUM OF TWO WEEKS PRIOR TO THE CLOSURE OF I-91.

2. DETOUR SIGNS SHALL BE LOCATED ADJACENT TO EXISTING INTERSECTION ROUTE MARKER ASSEMBLIES WHERE APPLICABLE. EXISTING SIGNS THAT CONFLICT WITH THE DETOUR SHALL BE COVERED. SIGN COVERING SHALL NOT DAMAGE THE RETRO-REFLECTIVITY OF THE SIGN FACE. ALSO, THE SIGN COVER SHALL NOT DETERIORATE FOR THE DURATION THAT THE SIGN IS COVERED.

3. THIS DETOUR PLAN IS A CONCEPTUAL OUTLINE ONLY AND THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN OF EACH INTERSECTION SHOWING DETOUR SIGN LOCATIONS IN RELATION TO EXISTING SIGNS. THE DETAILED PLAN SHALL INCLUDE THE LOCATIONS OF THE PORTABLE CHANGEABLE MESSAGE SIGNS.

4. SIGNS INSTALLED ON I-91 SHALL CONFORM TO THE FREEWAY/EXPRESSWAY STANDARD. SIGNS INSTALLED ON STATE ROUTES AND TOWN HIGHWAYS SHALL CONFORM TO THE CONVENTIONAL ROAD STANDARD.

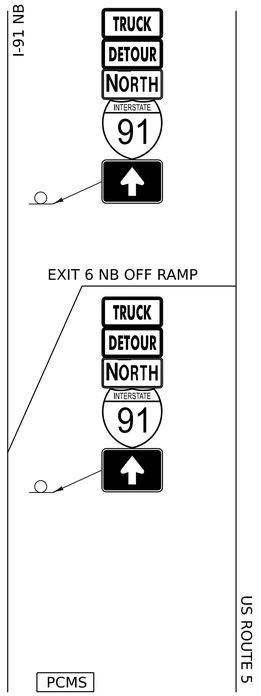
REGIONAL DETOUR MAP - TRUCK DETOUR

(NOT TO SCALE)

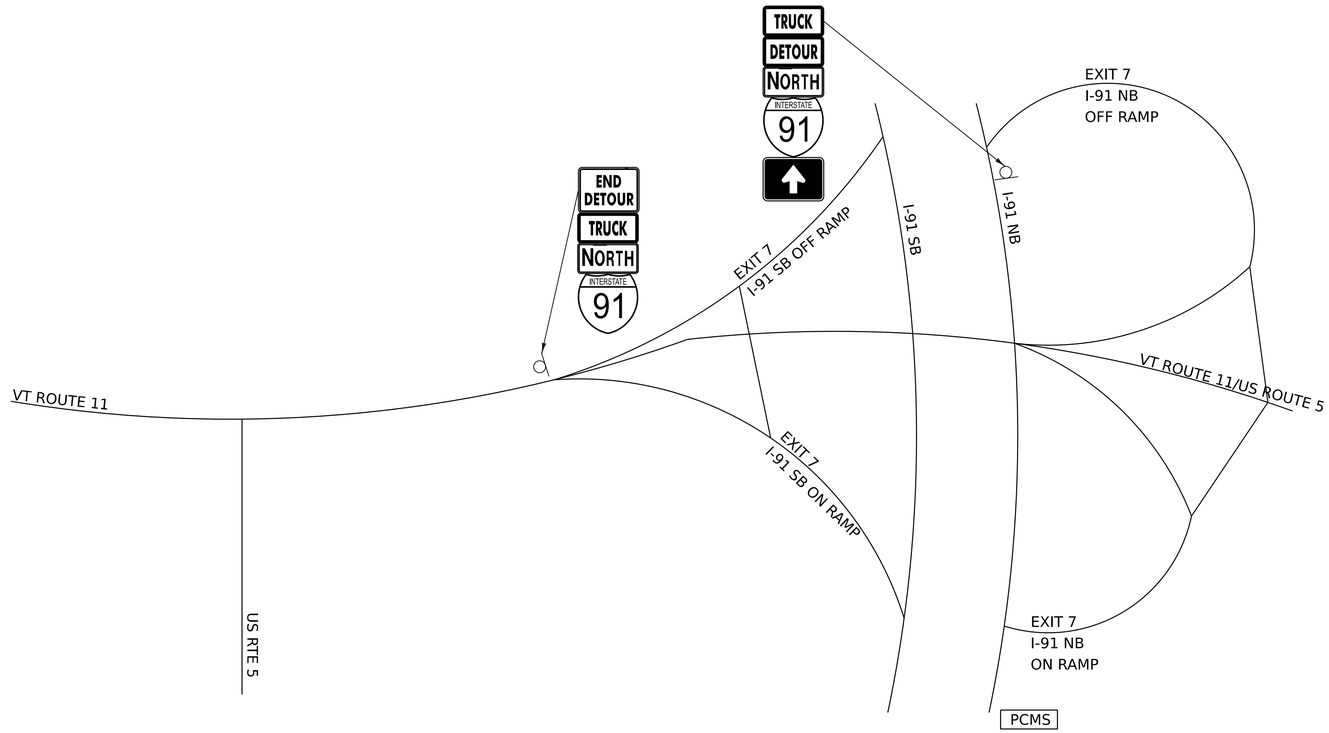
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)

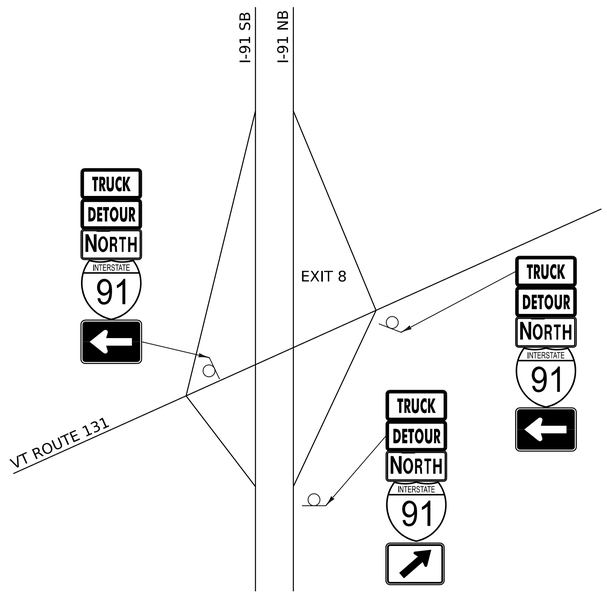
FILE NAME:	z12a574detmap.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. SHEDD
REGIONAL DETOUR MAP - TRUCK DETOUR		SHEET	328 OF 922



DETAIL I



DETAIL J



DETAIL K

	T	R	U	C	K	S	
*	M	M	M	M		D	D –
*	M	M	M	M		D	D

PORTABLE CHANGEABLE SIGN – PHASE 1

*M = MONTH
D = DAY

U	S	E		I	–	9	1
N	B		E	X		7	
D	E	T	O	U	R		

PORTABLE CHANGEABLE SIGN – PHASE 2

FOR DETAIL I

T	R	U	C	K	S		
U	S	E					
E	X	I	T		8		

PORTABLE CHANGEABLE SIGN – PHASE 3

T	R	U	C	K	S		
M	M	M	M		D	D –	
M	M	M	M		D	D	

PORTABLE CHANGEABLE SIGN – PHASE 1

I	–	9	1		E	X	7
N	B		T	R	U	C	K
D	E	T	O	U	R		

PORTABLE CHANGEABLE SIGN – PHASE 1

FOR DETAIL J

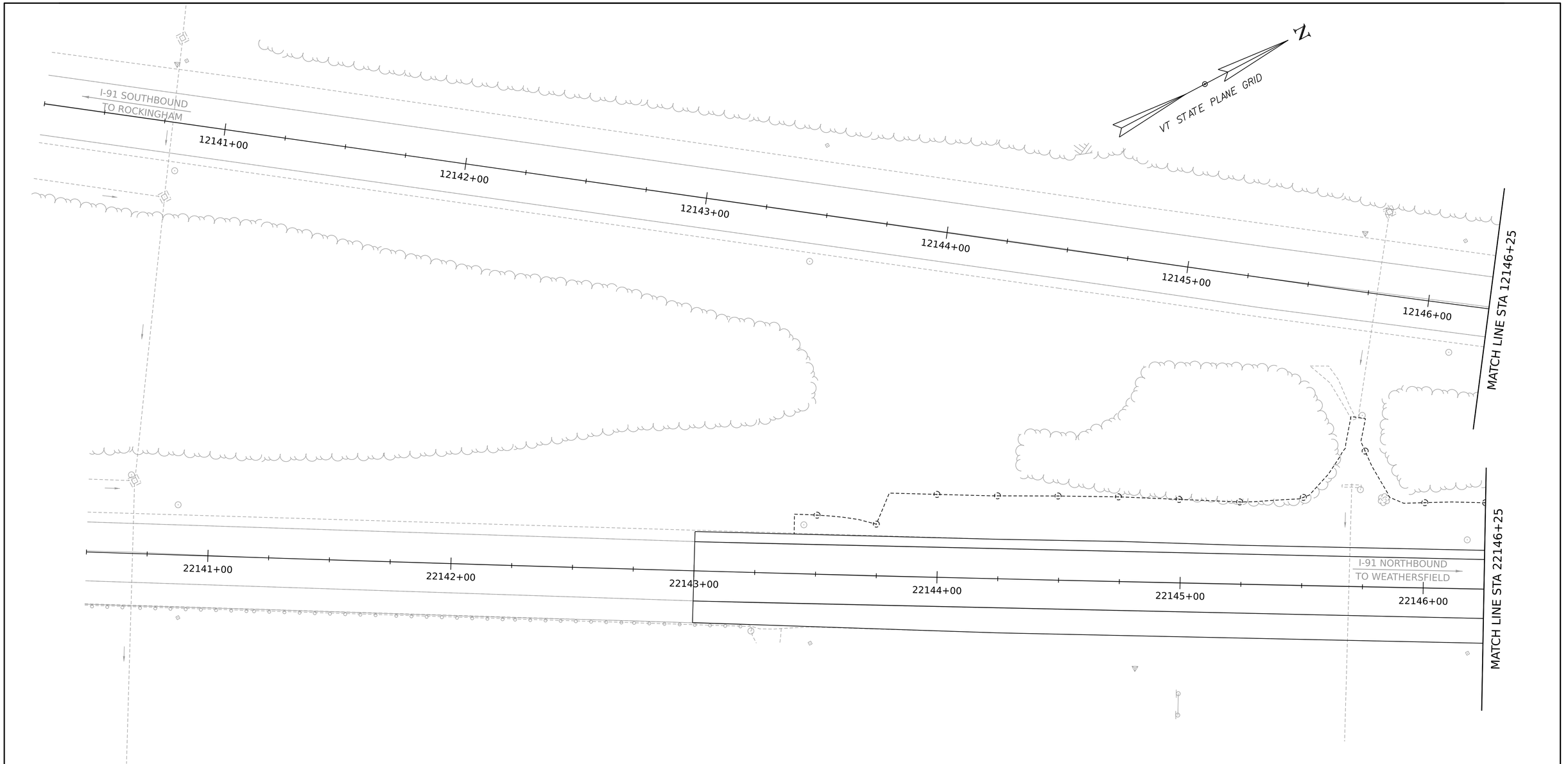
U	S	E					
I	–	9	1		S	B	
E	X	I	T		8		

PORTABLE CHANGEABLE SIGN – PHASE 2

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)

FILE NAME:	z12a574detmap.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. SHEDD
DETOUR DETAILS 3		SHEET	329 OF 922

HNTB

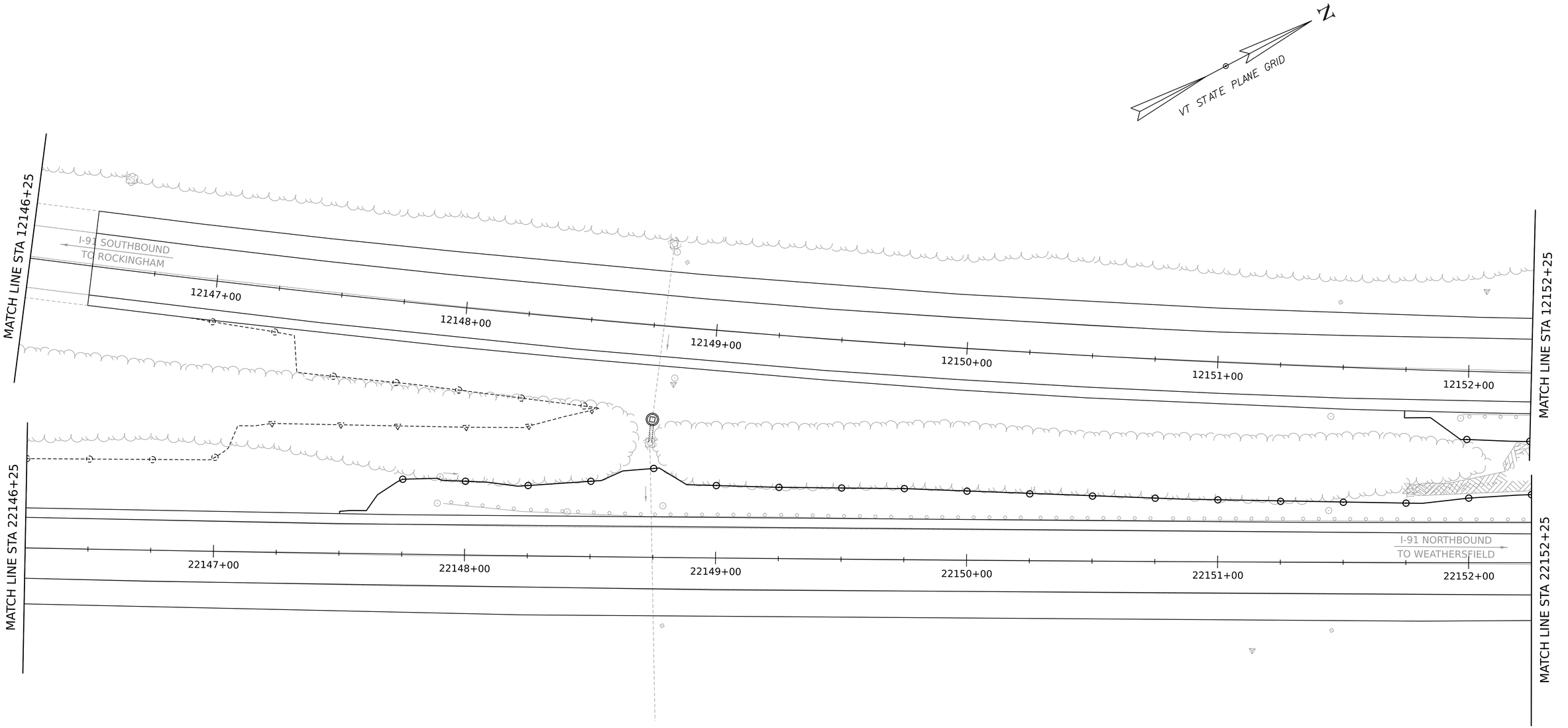


NO PROPOSED LIGHTING ON THIS SHEET.

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 1		SHEET	330 OF 922



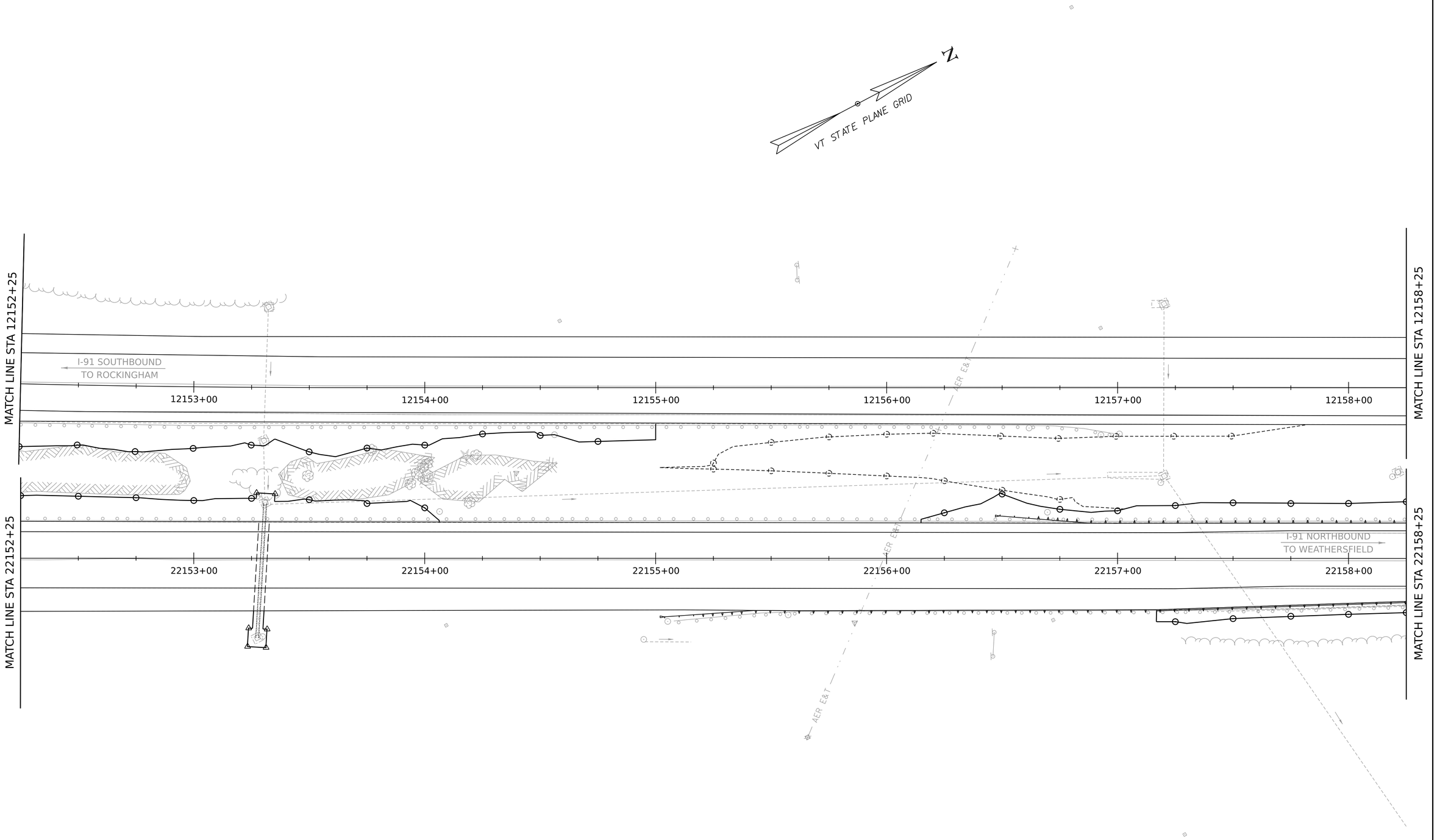
NO PROPOSED LIGHTING ON THIS SHEET.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 2		SHEET	331 OF 922



SCALE 1" = 20'-0"

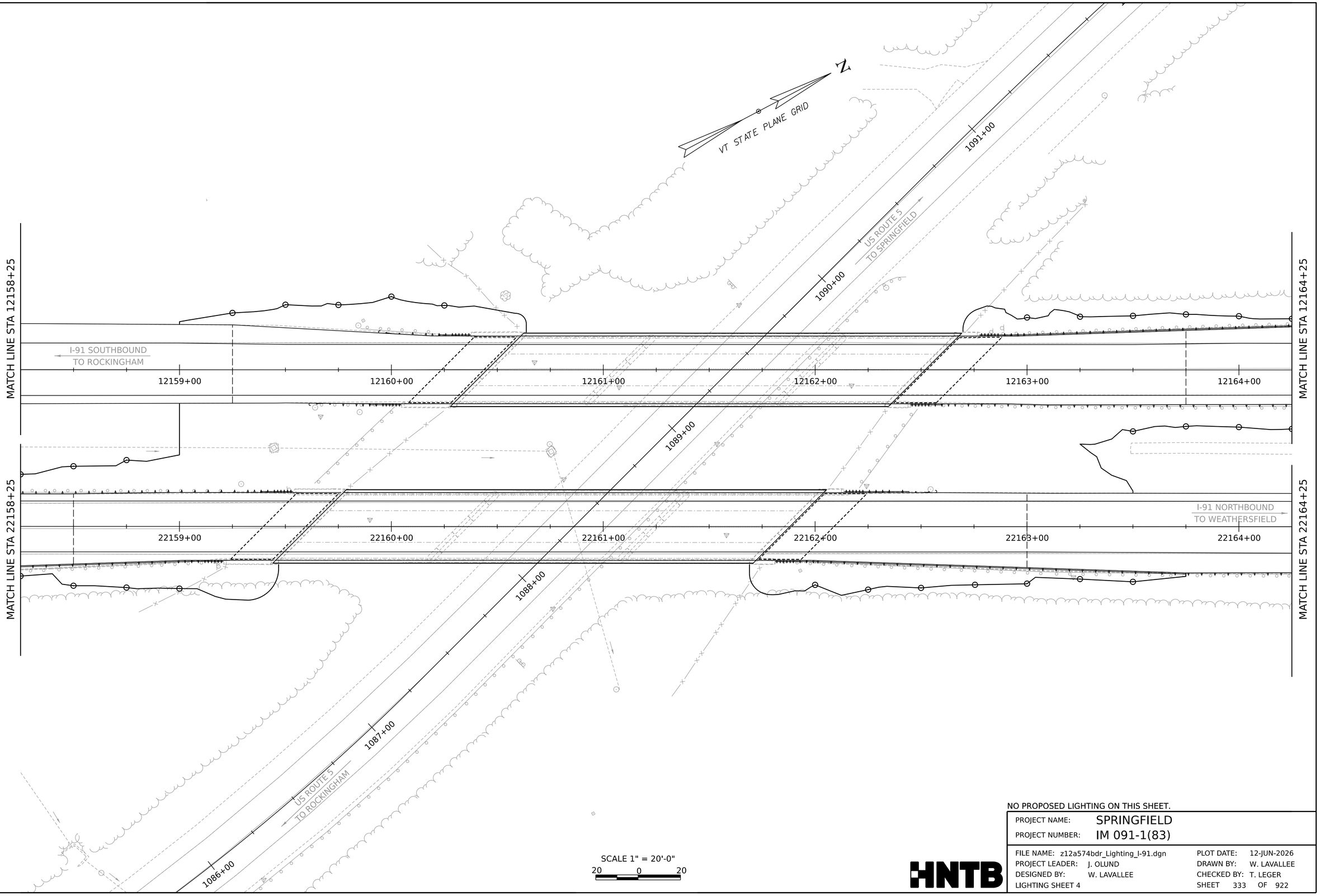
20 0 20

NO PROPOSED LIGHTING ON THIS SHEET.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 3		SHEET	332 OF 922

HNTB



SCALE 1" = 20'-0"

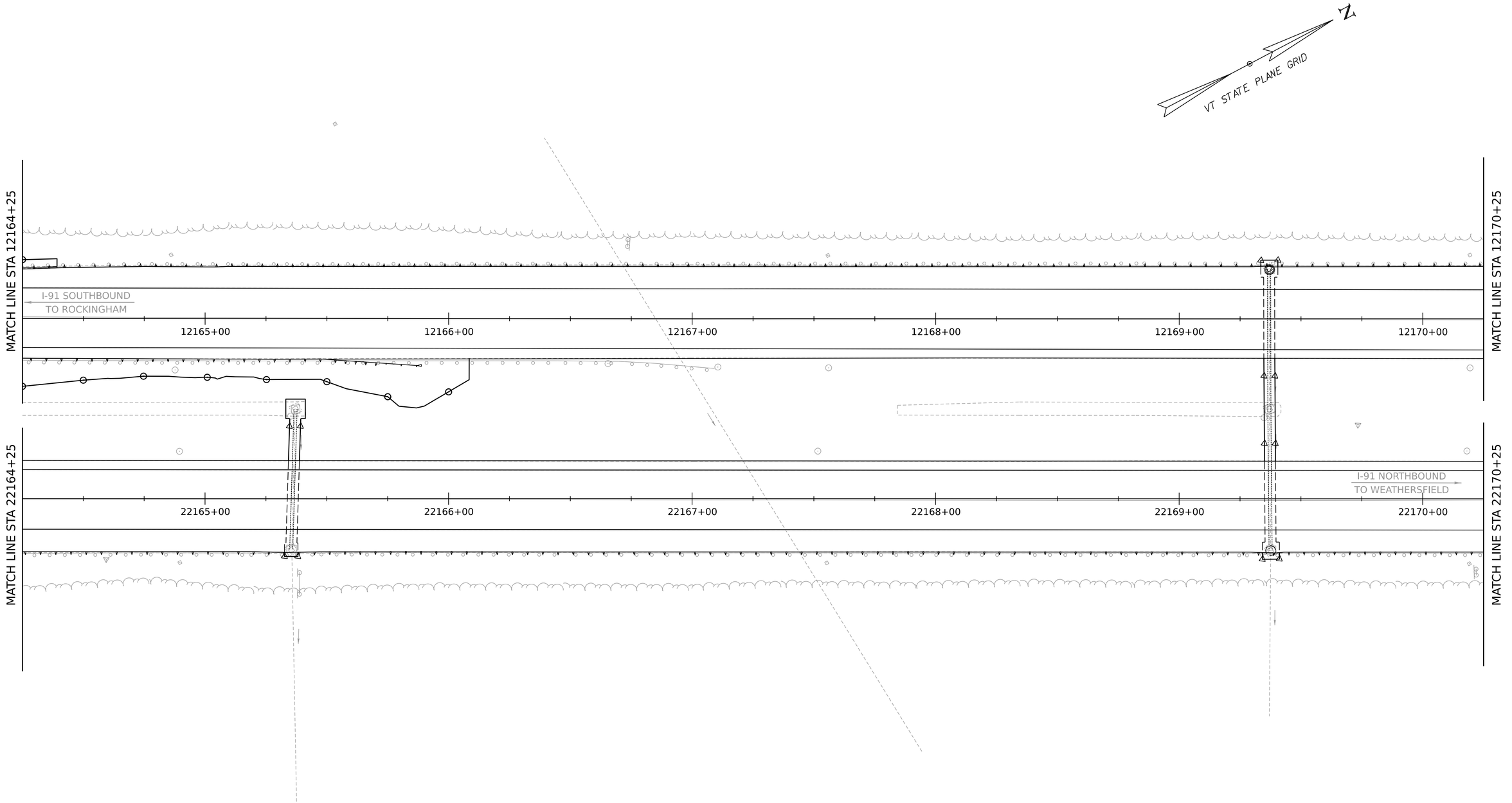
20 0 20

NO PROPOSED LIGHTING ON THIS SHEET.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 4		SHEET	333 OF 922

HNTB

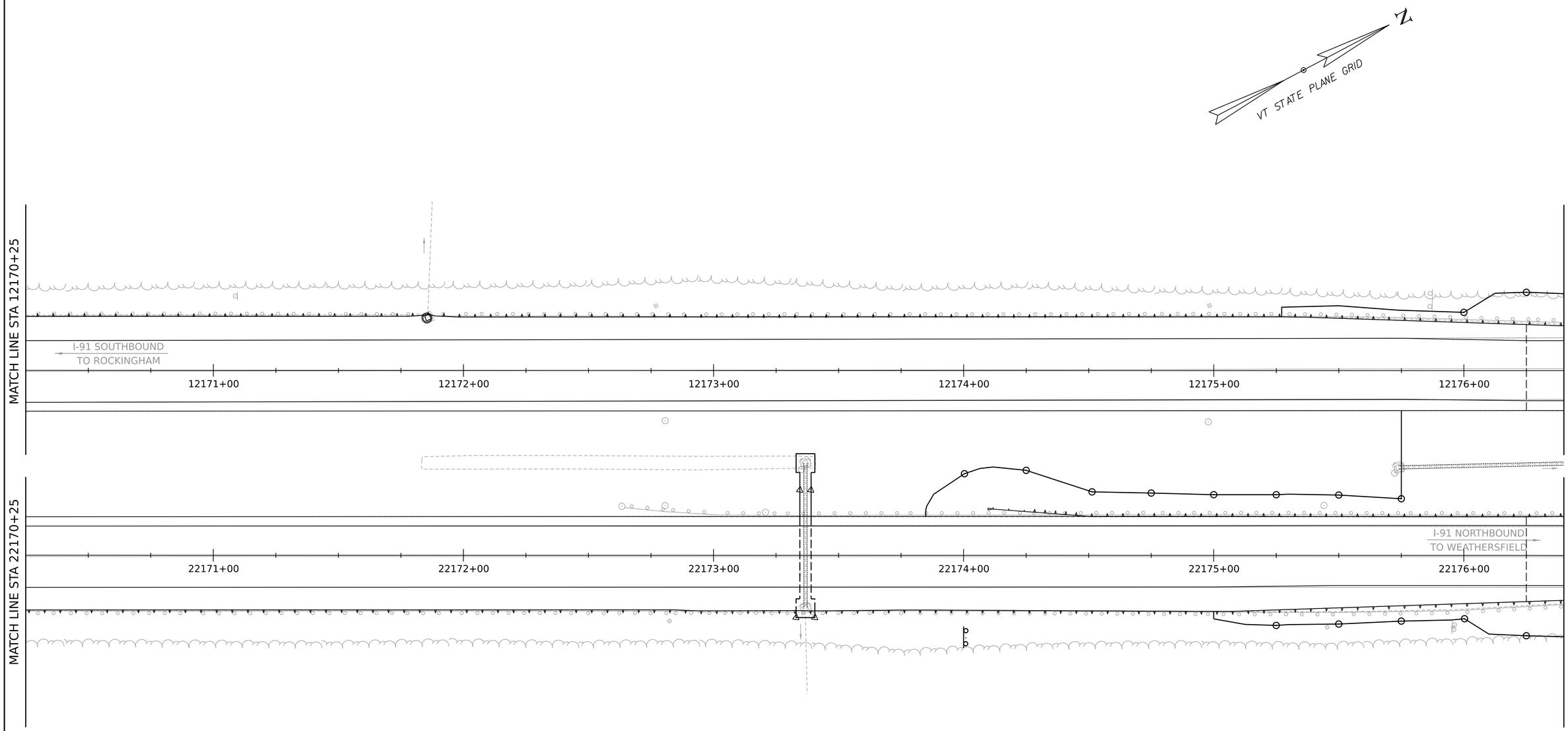


SCALE 1" = 20'-0"
20 0 20

NO PROPOSED LIGHTING ON THIS SHEET.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 5		SHEET	334 OF 922



SCALE 1" = 20'-0"

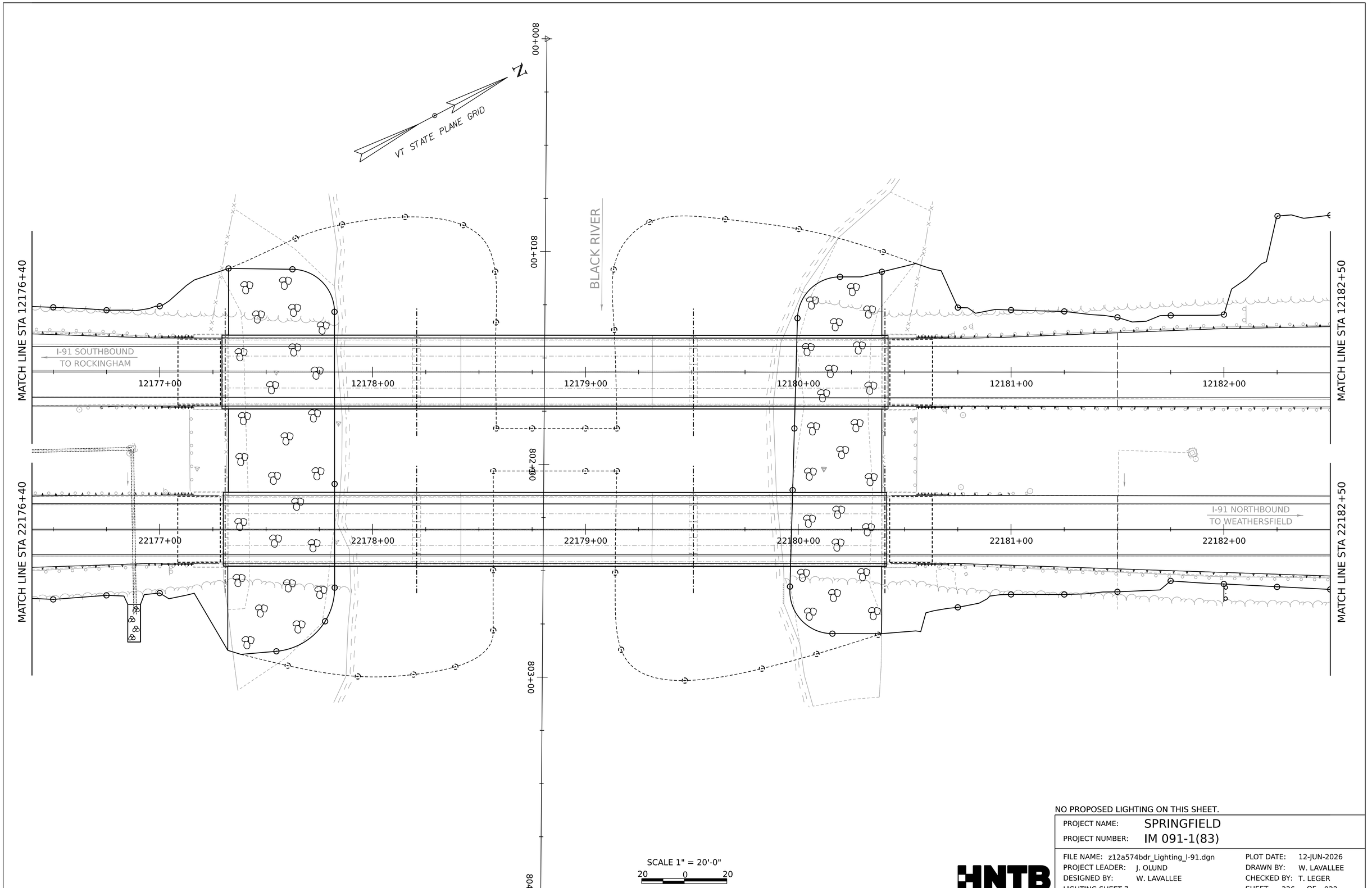
20 0 20

NO PROPOSED LIGHTING ON THIS SHEET.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 6		SHEET	335 OF 922

HNTB



SCALE 1" = 20'-0"

20 0 20

NO PROPOSED LIGHTING ON THIS SHEET.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 7		SHEET	336 OF 922

HNTB

VT STATE PLANE GRID

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

I-91 NORTHBOUND
TO WEATHERSFIELD

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

SCALE 1" = 20'-0"

20 0 20

NO PROPOSED LIGHTING ON THIS SHEET.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 8		SHEET	337 OF 922

625.7021 - PULL BOX - SINGLE

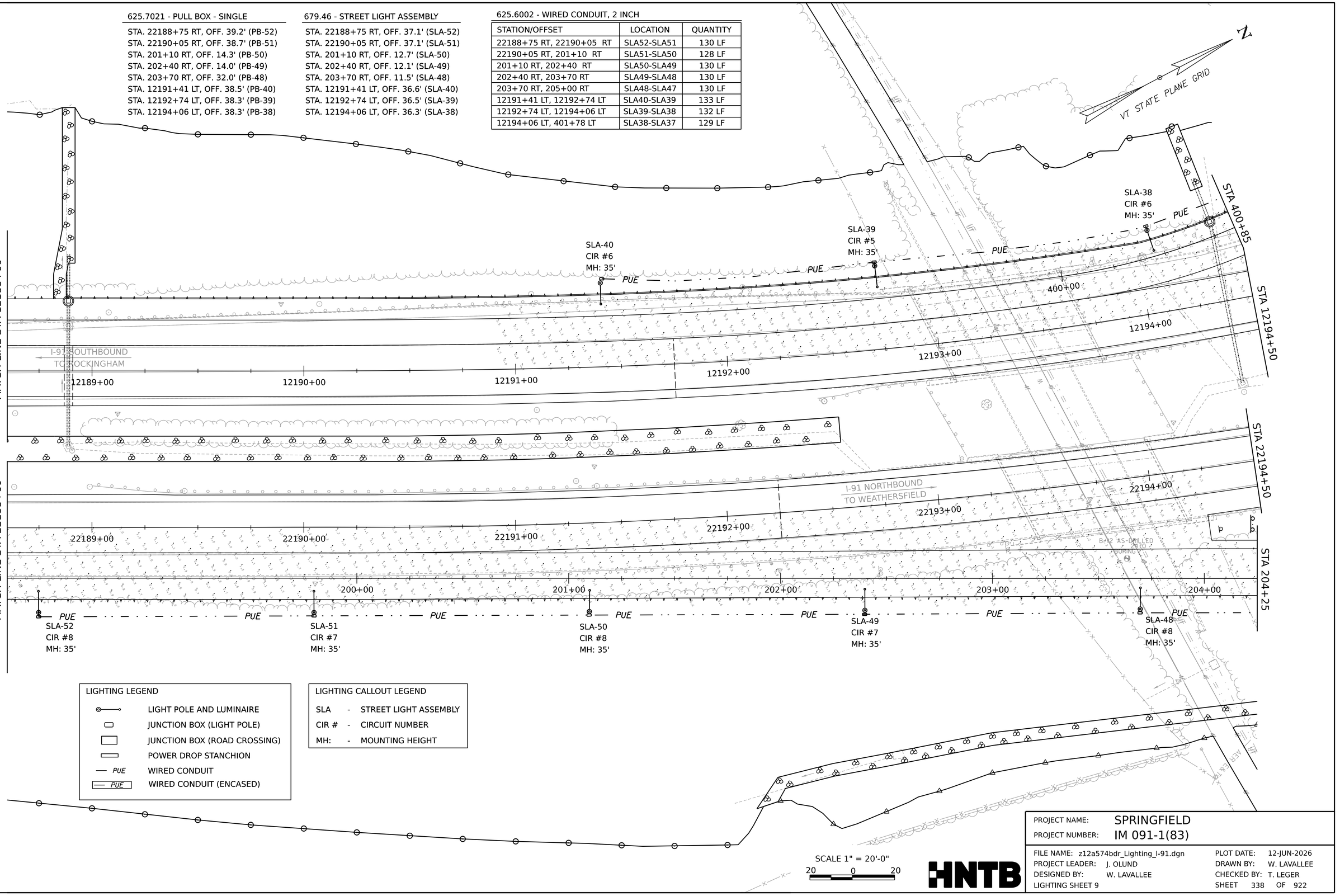
STA. 22188+75 RT, OFF. 39.2' (PB-52)
STA. 22190+05 RT, OFF. 38.7' (PB-51)
STA. 201+10 RT, OFF. 14.3' (PB-50)
STA. 202+40 RT, OFF. 14.0' (PB-49)
STA. 203+70 RT, OFF. 32.0' (PB-48)
STA. 12191+41 LT, OFF. 38.5' (PB-40)
STA. 12192+74 LT, OFF. 38.3' (PB-39)
STA. 12194+06 LT, OFF. 38.3' (PB-38)

679.46 - STREET LIGHT ASSEMBLY

STA. 22188+75 RT, OFF. 37.1' (SLA-52)
STA. 22190+05 RT, OFF. 37.1' (SLA-51)
STA. 201+10 RT, OFF. 12.7' (SLA-50)
STA. 202+40 RT, OFF. 12.1' (SLA-49)
STA. 203+70 RT, OFF. 11.5' (SLA-48)
STA. 12191+41 LT, OFF. 36.6' (SLA-40)
STA. 12192+74 LT, OFF. 36.5' (SLA-39)
STA. 12194+06 LT, OFF. 36.3' (SLA-38)

625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
22188+75 RT, 22190+05 RT	SLA52-SLA51	130 LF
22190+05 RT, 201+10 RT	SLA51-SLA50	128 LF
201+10 RT, 202+40 RT	SLA50-SLA49	130 LF
202+40 RT, 203+70 RT	SLA49-SLA48	130 LF
203+70 RT, 205+00 RT	SLA48-SLA47	130 LF
12191+41 LT, 12192+74 LT	SLA40-SLA39	133 LF
12192+74 LT, 12194+06 LT	SLA39-SLA38	132 LF
12194+06 LT, 401+78 LT	SLA38-SLA37	129 LF



LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

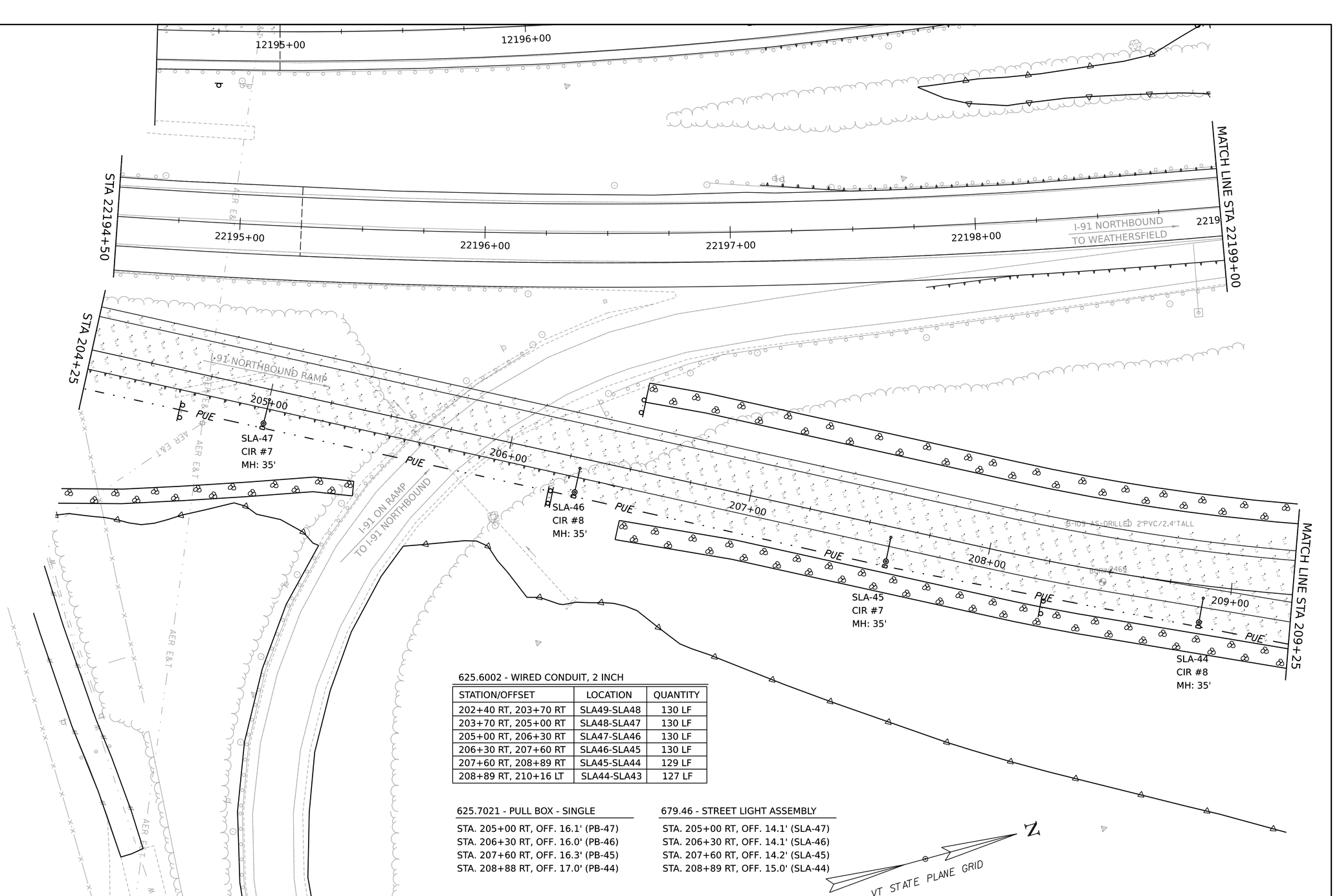
LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	W. LAVALLEE
LIGHTING SHEET 9	
PLOT DATE:	12-JUN-2026
DRAWN BY:	W. LAVALLEE
CHECKED BY:	T. LEGER
SHEET	338 OF 922



625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
202+40 RT, 203+70 RT	SLA49-SLA48	130 LF
203+70 RT, 205+00 RT	SLA48-SLA47	130 LF
205+00 RT, 206+30 RT	SLA47-SLA46	130 LF
206+30 RT, 207+60 RT	SLA46-SLA45	130 LF
207+60 RT, 208+89 RT	SLA45-SLA44	129 LF
208+89 RT, 210+16 LT	SLA44-SLA43	127 LF

625.7021 - PULL BOX - SINGLE

STA. 205+00 RT, OFF. 16.1' (PB-47)
STA. 206+30 RT, OFF. 16.0' (PB-46)
STA. 207+60 RT, OFF. 16.3' (PB-45)
STA. 208+88 RT, OFF. 17.0' (PB-44)

679.46 - STREET LIGHT ASSEMBLY

STA. 205+00 RT, OFF. 14.1' (SLA-47)
STA. 206+30 RT, OFF. 14.1' (SLA-46)
STA. 207+60 RT, OFF. 14.2' (SLA-45)
STA. 208+89 RT, OFF. 15.0' (SLA-44)

LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

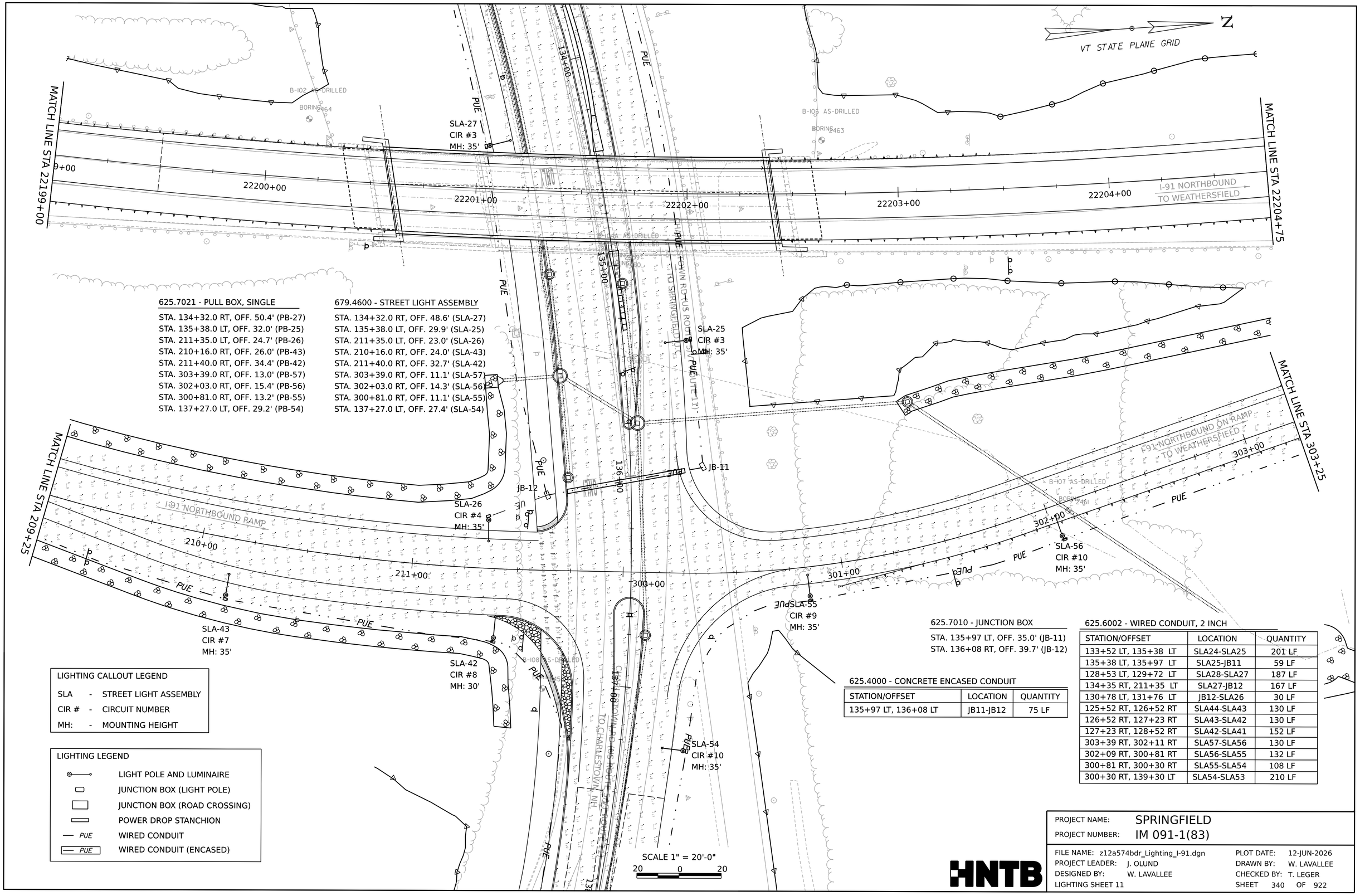
LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	W. LAVALLEE
LIGHTING SHEET 10	
PLOT DATE:	12-JUN-2026
DRAWN BY:	W. LAVALLEE
CHECKED BY:	T. LEGER
SHEET	339 OF 922



625.7021 - PULL BOX, SINGLE

STA. 134+32.0 RT, OFF. 50.4' (PB-27)
STA. 135+38.0 LT, OFF. 32.0' (PB-25)
STA. 211+35.0 LT, OFF. 24.7' (PB-26)
STA. 210+16.0 RT, OFF. 26.0' (PB-43)
STA. 211+40.0 RT, OFF. 34.4' (PB-42)
STA. 303+39.0 RT, OFF. 13.0' (PB-57)
STA. 302+03.0 RT, OFF. 15.4' (PB-56)
STA. 300+81.0 RT, OFF. 13.2' (PB-55)
STA. 137+27.0 LT, OFF. 29.2' (PB-54)

679.4600 - STREET LIGHT ASSEMBLY

STA. 134+32.0 RT, OFF. 48.6' (SLA-27)
STA. 135+38.0 LT, OFF. 29.9' (SLA-25)
STA. 211+35.0 LT, OFF. 23.0' (SLA-26)
STA. 210+16.0 RT, OFF. 24.0' (SLA-43)
STA. 211+40.0 RT, OFF. 32.7' (SLA-42)
STA. 303+39.0 RT, OFF. 11.1' (SLA-57)
STA. 302+03.0 RT, OFF. 14.3' (SLA-56)
STA. 300+81.0 RT, OFF. 11.1' (SLA-55)
STA. 137+27.0 LT, OFF. 27.4' (SLA-54)

625.7010 - JUNCTION BOX

STA. 135+97 LT, OFF. 35.0' (JB-11)
STA. 136+08 RT, OFF. 39.7' (JB-12)

625.4000 - CONCRETE ENCASED CONDUIT

STATION/OFFSET	LOCATION	QUANTITY
135+97 LT, 136+08 LT	JB11-JB12	75 LF

625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
133+52 LT, 135+38 LT	SLA24-SLA25	201 LF
135+38 LT, 135+97 LT	SLA25-JB11	59 LF
128+53 LT, 129+72 LT	SLA28-SLA27	187 LF
134+35 RT, 211+35 LT	SLA27-JB12	167 LF
130+78 LT, 131+76 LT	JB12-SLA26	30 LF
125+52 RT, 126+52 RT	SLA44-SLA43	130 LF
126+52 RT, 127+23 RT	SLA43-SLA42	130 LF
127+23 RT, 128+52 RT	SLA42-SLA41	152 LF
303+39 RT, 302+11 RT	SLA57-SLA56	130 LF
302+09 RT, 300+81 RT	SLA56-SLA55	132 LF
300+81 RT, 300+30 RT	SLA55-SLA54	108 LF
300+30 RT, 139+30 LT	SLA54-SLA53	210 LF

LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

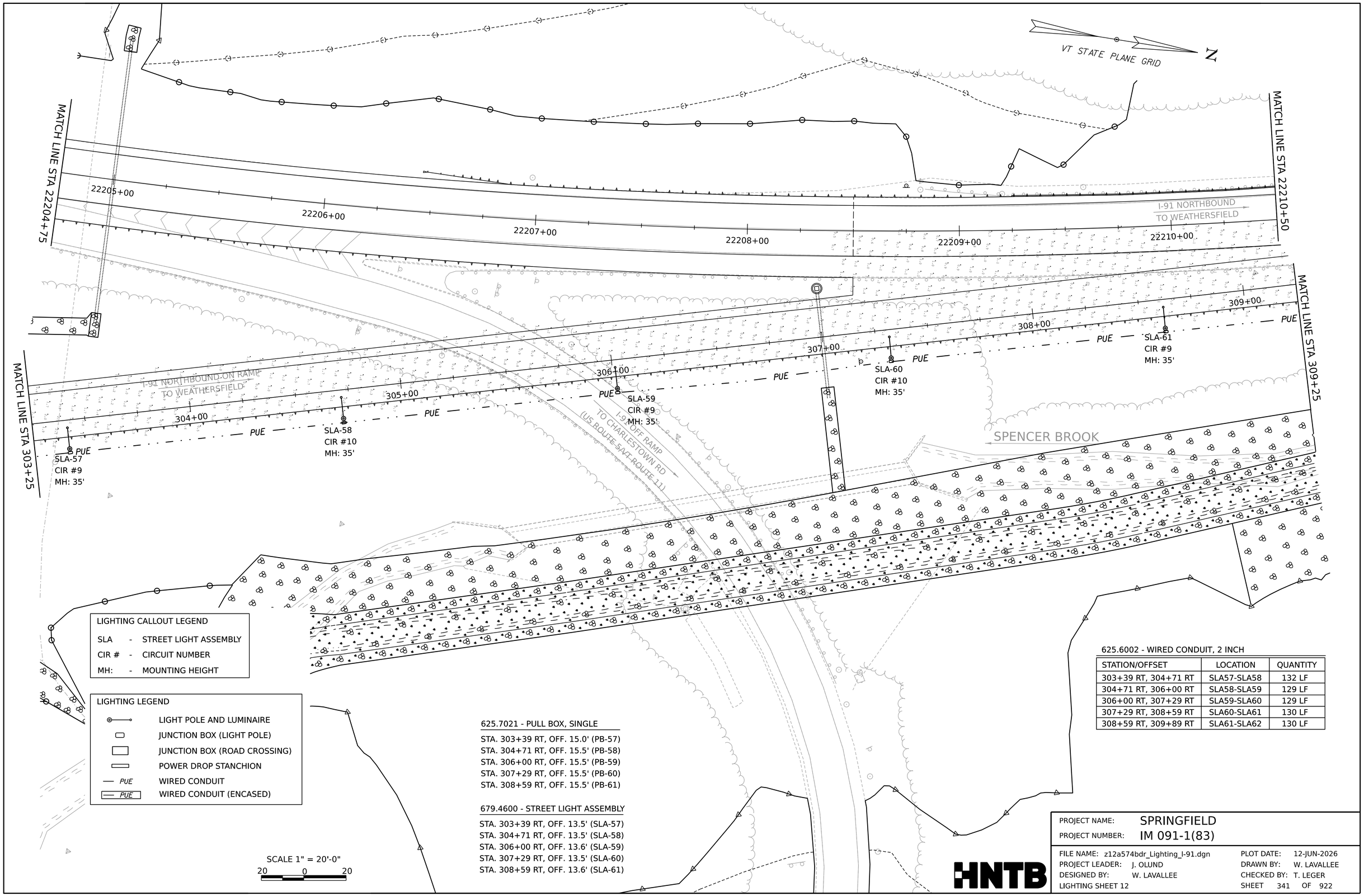
LIGHTING LEGEND

LIGHT POLE AND LUMINAIRE
JUNCTION BOX (LIGHT POLE)
JUNCTION BOX (ROAD CROSSING)
POWER DROP STANCHION
PUE WIRED CONDUIT
PUE WIRED CONDUIT (ENCASED)

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING SHEET 11
PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 340 OF 922



LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

SCALE 1" = 20'-0"
20 0 20

625.7021 - PULL BOX, SINGLE

STA. 303+39 RT, OFF. 15.0' (PB-57)
STA. 304+71 RT, OFF. 15.5' (PB-58)
STA. 306+00 RT, OFF. 15.5' (PB-59)
STA. 307+29 RT, OFF. 15.5' (PB-60)
STA. 308+59 RT, OFF. 15.5' (PB-61)

679.4600 - STREET LIGHT ASSEMBLY

STA. 303+39 RT, OFF. 13.5' (SLA-57)
STA. 304+71 RT, OFF. 13.5' (SLA-58)
STA. 306+00 RT, OFF. 13.6' (SLA-59)
STA. 307+29 RT, OFF. 13.5' (SLA-60)
STA. 308+59 RT, OFF. 13.6' (SLA-61)

625.6002 - WIRED CONDUIT, 2 INCH

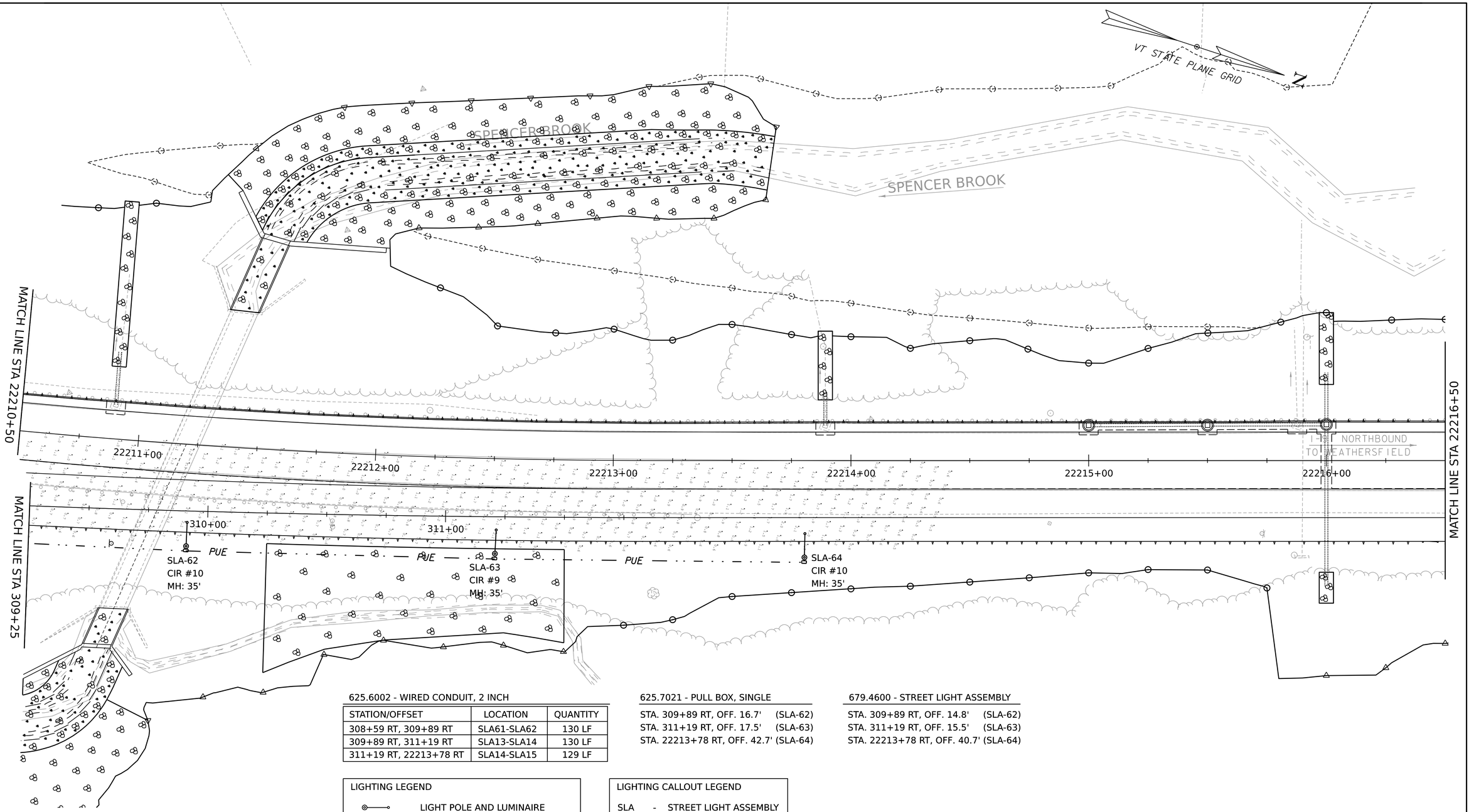
STATION/OFFSET	LOCATION	QUANTITY
303+39 RT, 304+71 RT	SLA57-SLA58	132 LF
304+71 RT, 306+00 RT	SLA58-SLA59	129 LF
306+00 RT, 307+29 RT	SLA59-SLA60	129 LF
307+29 RT, 308+59 RT	SLA60-SLA61	130 LF
308+59 RT, 309+89 RT	SLA61-SLA62	130 LF

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING SHEET 12

PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 341 OF 922



625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
308+59 RT, 309+89 RT	SLA61-SLA62	130 LF
309+89 RT, 311+19 RT	SLA13-SLA14	130 LF
311+19 RT, 22213+78 RT	SLA14-SLA15	129 LF

625.7021 - PULL BOX, SINGLE

STA. 309+89 RT, OFF. 16.7' (SLA-62)
STA. 311+19 RT, OFF. 17.5' (SLA-63)
STA. 22213+78 RT, OFF. 42.7' (SLA-64)

679.4600 - STREET LIGHT ASSEMBLY

STA. 309+89 RT, OFF. 14.8' (SLA-62)
STA. 311+19 RT, OFF. 15.5' (SLA-63)
STA. 22213+78 RT, OFF. 40.7' (SLA-64)

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

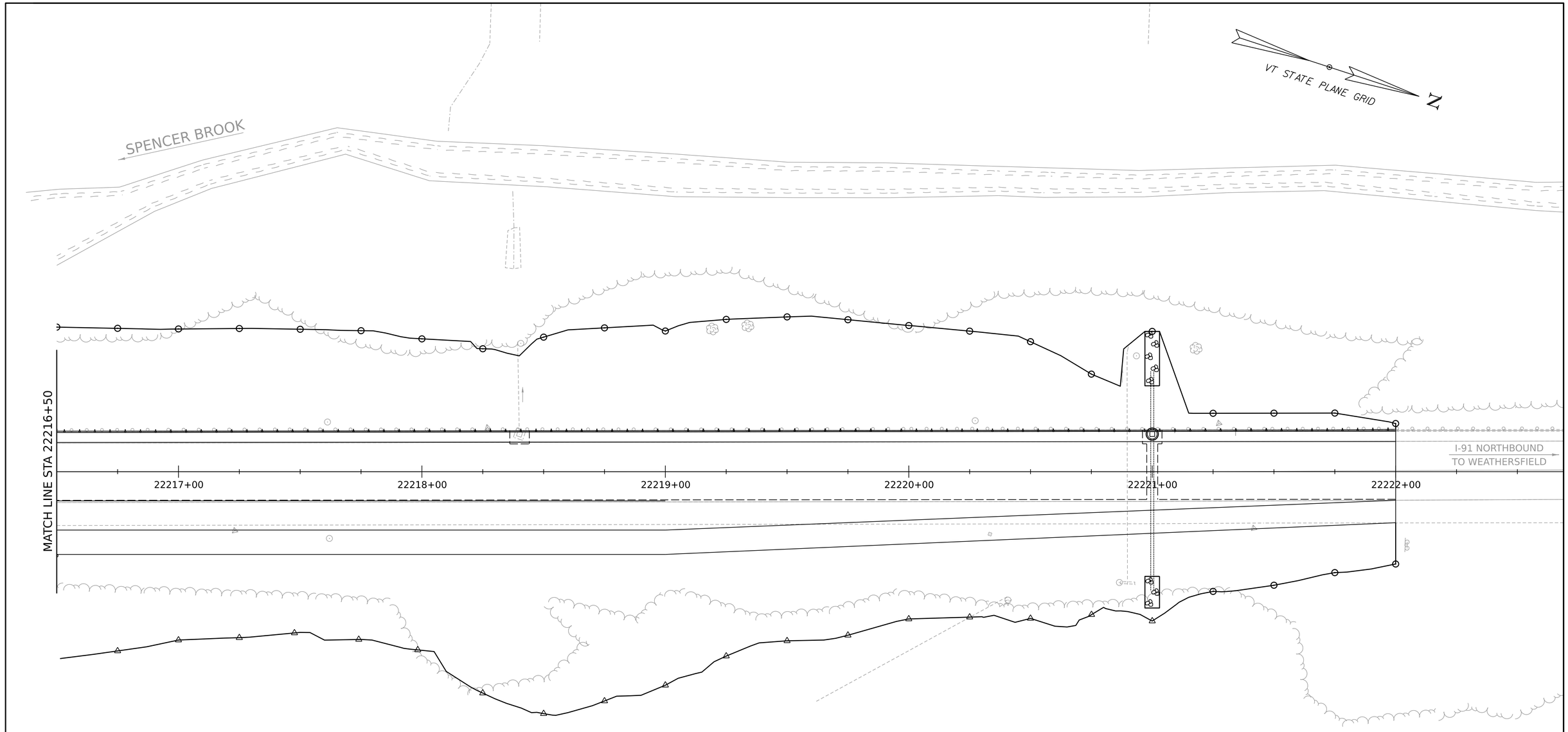
SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING SHEET 13

PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 342 OF 922



NO PROPOSED LIGHTING ON THIS SHEET.

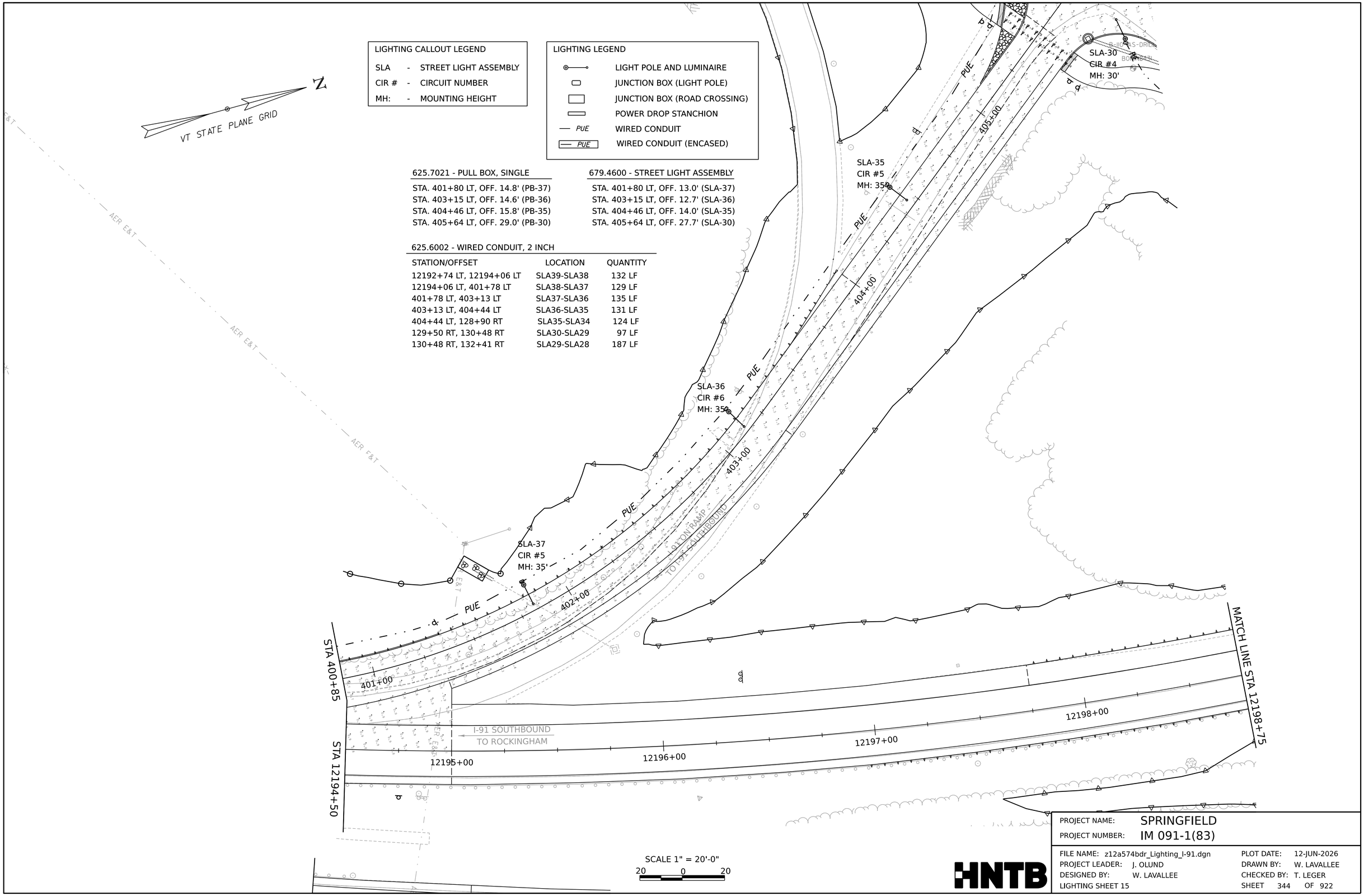
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 14		SHEET	343 OF 922



LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

625.7021 - PULL BOX, SINGLE

STA. 401+80 LT, OFF. 14.8' (PB-37)
STA. 403+15 LT, OFF. 14.6' (PB-36)
STA. 404+46 LT, OFF. 15.8' (PB-35)
STA. 405+64 LT, OFF. 29.0' (PB-30)

679.4600 - STREET LIGHT ASSEMBLY

STA. 401+80 LT, OFF. 13.0' (SLA-37)
STA. 403+15 LT, OFF. 12.7' (SLA-36)
STA. 404+46 LT, OFF. 14.0' (SLA-35)
STA. 405+64 LT, OFF. 27.7' (SLA-30)

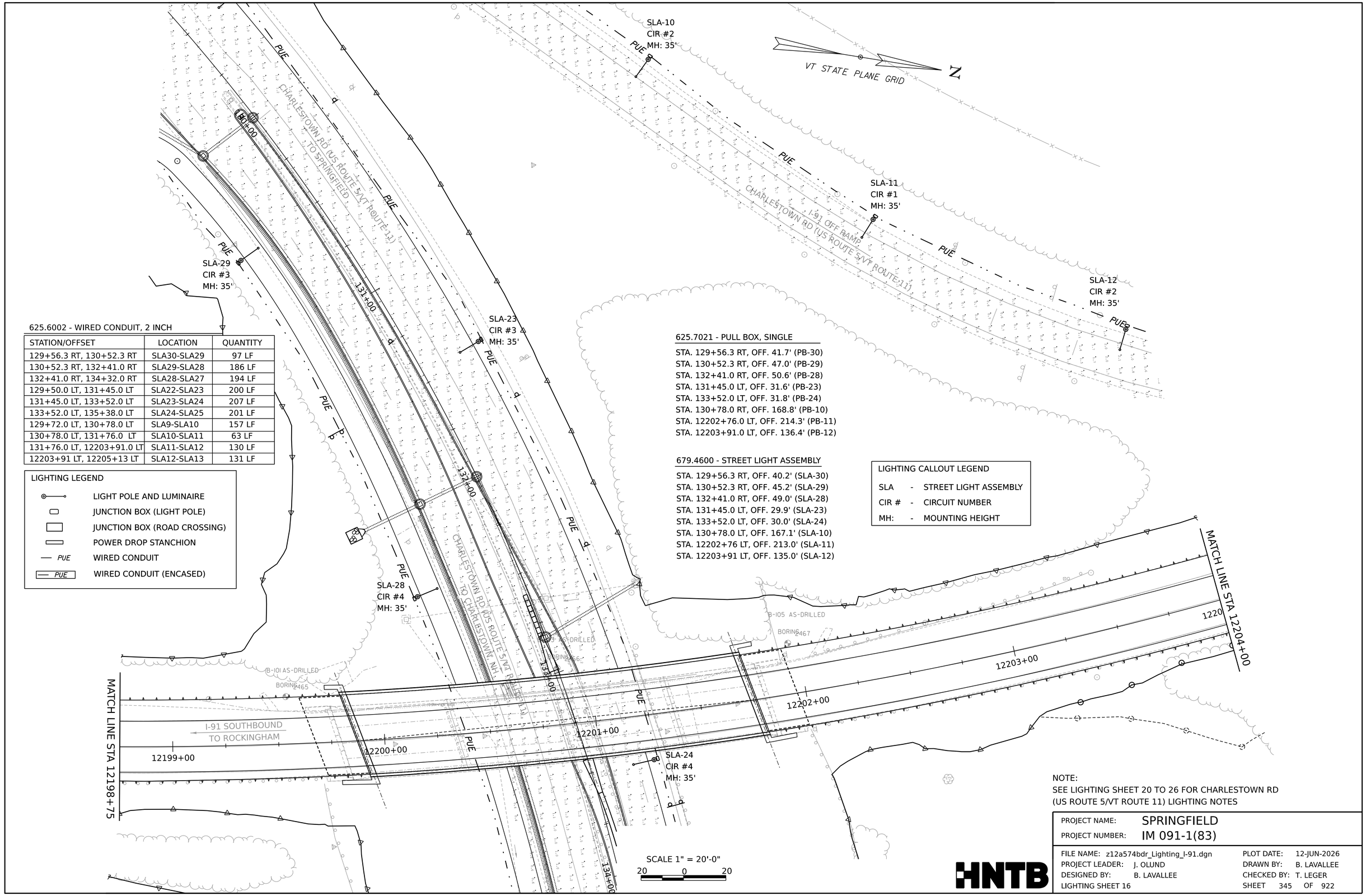
625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
12192+74 LT, 12194+06 LT	SLA39-SLA38	132 LF
12194+06 LT, 401+78 LT	SLA38-SLA37	129 LF
401+78 LT, 403+13 LT	SLA37-SLA36	135 LF
403+13 LT, 404+44 LT	SLA36-SLA35	131 LF
404+44 LT, 128+90 RT	SLA35-SLA34	124 LF
129+50 RT, 130+48 RT	SLA30-SLA29	97 LF
130+48 RT, 132+41 RT	SLA29-SLA28	187 LF

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 15		SHEET	344 OF 922



625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
129+56.3 RT, 130+52.3 RT	SLA30-SLA29	97 LF
130+52.3 RT, 132+41.0 RT	SLA29-SLA28	186 LF
132+41.0 RT, 134+32.0 RT	SLA28-SLA27	194 LF
129+50.0 LT, 131+45.0 LT	SLA22-SLA23	200 LF
131+45.0 LT, 133+52.0 LT	SLA23-SLA24	207 LF
133+52.0 LT, 135+38.0 LT	SLA24-SLA25	201 LF
129+72.0 LT, 130+78.0 LT	SLA9-SLA10	157 LF
130+78.0 LT, 131+76.0 LT	SLA10-SLA11	63 LF
131+76.0 LT, 12203+91.0 LT	SLA11-SLA12	130 LF
12203+91 LT, 12205+13 LT	SLA12-SLA13	131 LF

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

625.7021 - PULL BOX, SINGLE

STA. 129+56.3 RT, OFF. 41.7' (PB-30)
STA. 130+52.3 RT, OFF. 47.0' (PB-29)
STA. 132+41.0 RT, OFF. 50.6' (PB-28)
STA. 131+45.0 LT, OFF. 31.6' (PB-23)
STA. 133+52.0 LT, OFF. 31.8' (PB-24)
STA. 130+78.0 RT, OFF. 168.8' (PB-10)
STA. 12202+76.0 LT, OFF. 214.3' (PB-11)
STA. 12203+91.0 LT, OFF. 136.4' (PB-12)

679.4600 - STREET LIGHT ASSEMBLY

STA. 129+56.3 RT, OFF. 40.2' (SLA-30)
STA. 130+52.3 RT, OFF. 45.2' (SLA-29)
STA. 132+41.0 RT, OFF. 49.0' (SLA-28)
STA. 131+45.0 LT, OFF. 29.9' (SLA-23)
STA. 133+52.0 LT, OFF. 30.0' (SLA-24)
STA. 130+78.0 LT, OFF. 167.1' (SLA-10)
STA. 12202+76 LT, OFF. 213.0' (SLA-11)
STA. 12203+91 LT, OFF. 135.0' (SLA-12)

LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

NOTE:
SEE LIGHTING SHEET 20 TO 26 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) LIGHTING NOTES

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: B. LAVALLEE
LIGHTING SHEET 16

PLOT DATE: 12-JUN-2026
DRAWN BY: B. LAVALLEE
CHECKED BY: T. LEGER
SHEET 345 OF 922

HNTB

VT STATE PLANE GRID

N

625.6002 - WIRED CONDUIT, 2 INCH

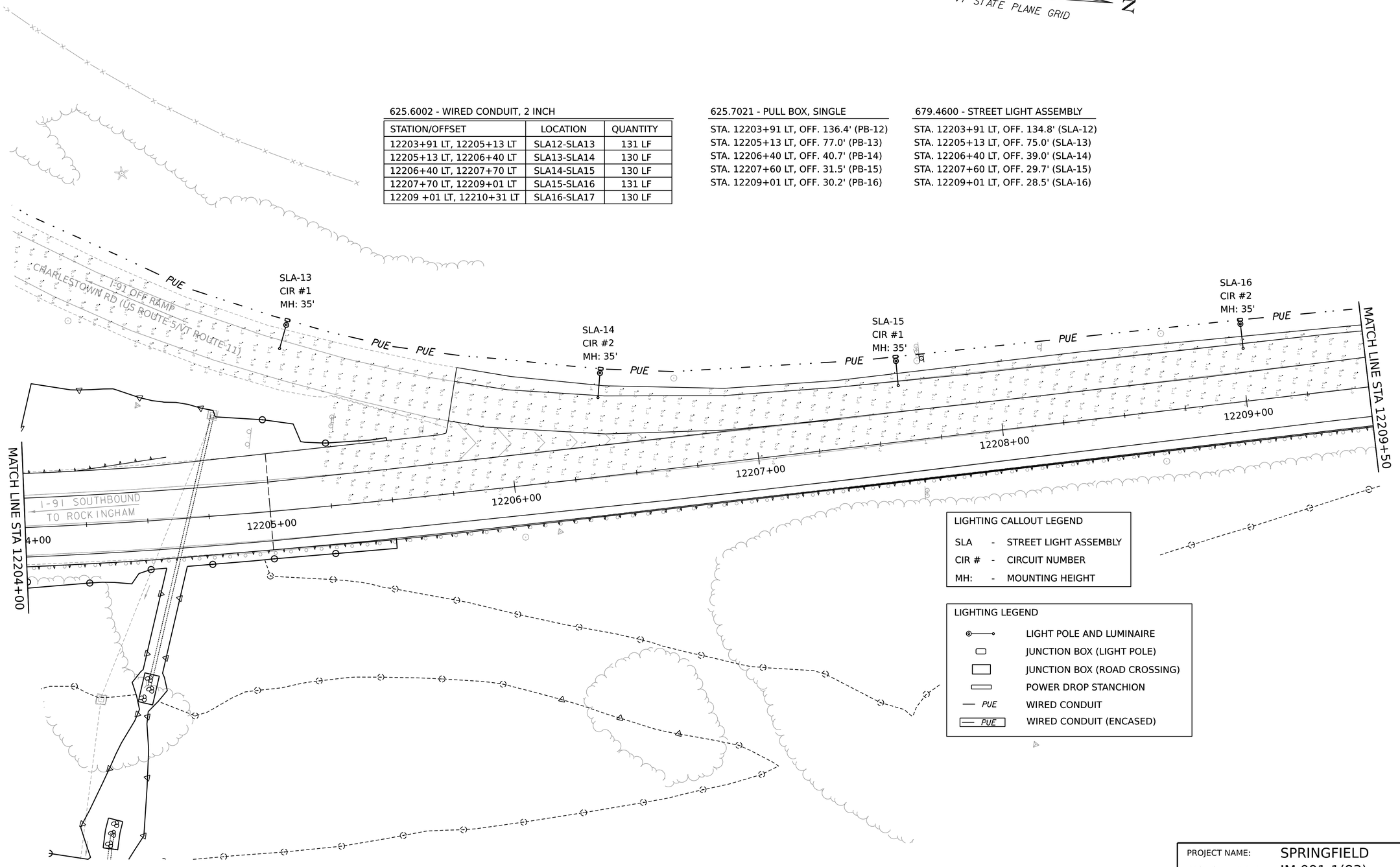
STATION/OFFSET	LOCATION	QUANTITY
12203+91 LT, 12205+13 LT	SLA12-SLA13	131 LF
12205+13 LT, 12206+40 LT	SLA13-SLA14	130 LF
12206+40 LT, 12207+70 LT	SLA14-SLA15	130 LF
12207+70 LT, 12209+01 LT	SLA15-SLA16	131 LF
12209 +01 LT, 12210+31 LT	SLA16-SLA17	130 LF

625.7021 - PULL BOX, SINGLE

STA. 12203+91 LT, OFF. 136.4' (PB-12)
STA. 12205+13 LT, OFF. 77.0' (PB-13)
STA. 12206+40 LT, OFF. 40.7' (PB-14)
STA. 12207+60 LT, OFF. 31.5' (PB-15)
STA. 12209+01 LT, OFF. 30.2' (PB-16)

679.4600 - STREET LIGHT ASSEMBLY

STA. 12203+91 LT, OFF. 134.8' (SLA-12)
STA. 12205+13 LT, OFF. 75.0' (SLA-13)
STA. 12206+40 LT, OFF. 39.0' (SLA-14)
STA. 12207+60 LT, OFF. 29.7' (SLA-15)
STA. 12209+01 LT, OFF. 28.5' (SLA-16)



LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING SHEET 17

PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 346 OF 922

625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
12209+01 LT, 12210+31 LT	SLA16-SLA17	130 LF

625.7021 - PULL BOX, SINGLE

STA. 12210+31 LT, OFF. 27.3' (PB-17)

679.4600 - STREET LIGHT ASSEMBLY

STA. 12210+31 LT, OFF. 25.4' (SLA-17)

LIGHTING LEGEND

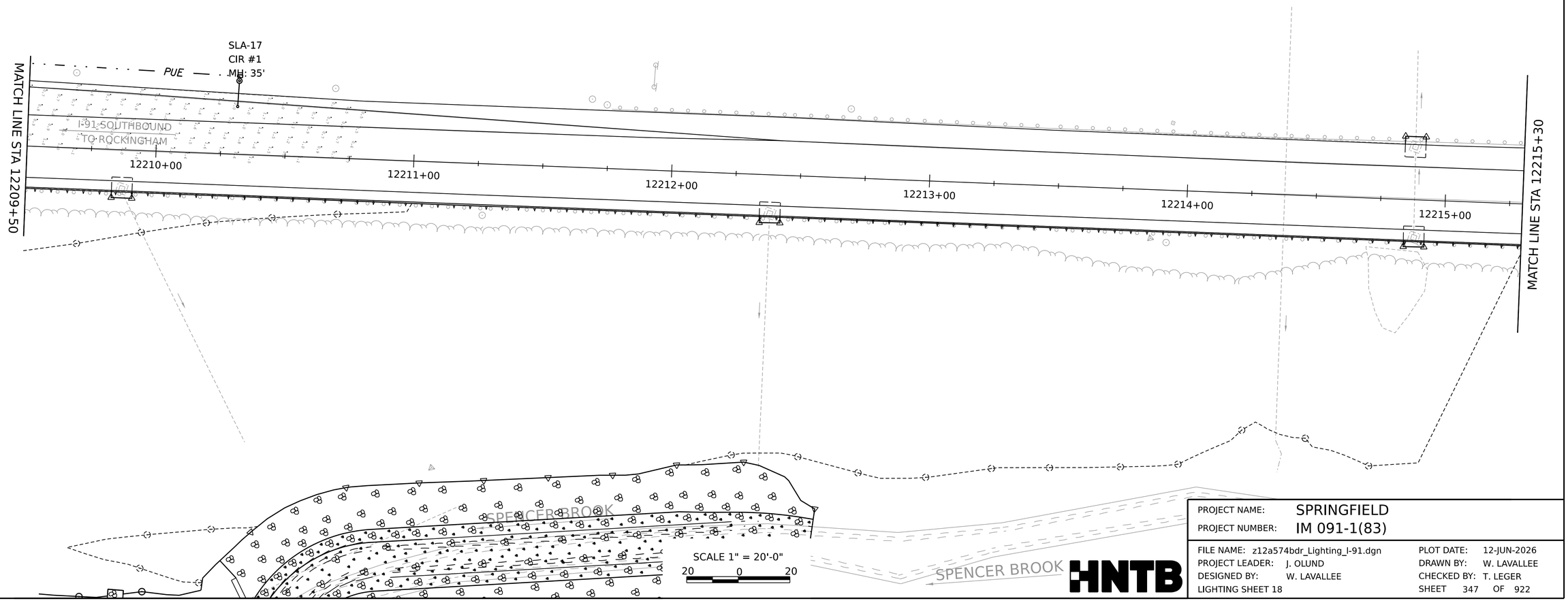
- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

VT STATE PLANE GRID

N



PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING SHEET 18

PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 347 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

SPENCER BROOK

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_Lighting_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING SHEET 19		SHEET	348 OF 922

625.7021 - PULL BOX, SINGLE

STA. 118+40 RT, OFF. 45.0' (PB-1)
STA. 118+34 LT, OFF. 37.5' (PB-2)
STA. 120+43 LT, OFF. 39.0' (PB-3)
STA. 1118+57 RT, OFF. 46.8' (PB-18)
STA. 121+42 RT, OFF. 39.7' (PB-19)

625.7000 - POWER DROP STANCHION

STA. 117+82 RT, OFF. 72.9' (PDS-1)

679.4600 - STREET LIGHT ASSEMBLY

STA. 118+40 RT, OFF. 43.3' (SLA-1)
STA. 118+34 LT, OFF. 36.0' (SLA-2)
STA. 120+43 LT, OFF. 37.4' (SLA-3)
STA. 1118+57 RT, OFF. 45.2' (SLA-18)
STA. 121+42 RT, OFF. 38.0' (SLA-19)

625.7010 - JUNCTION BOX

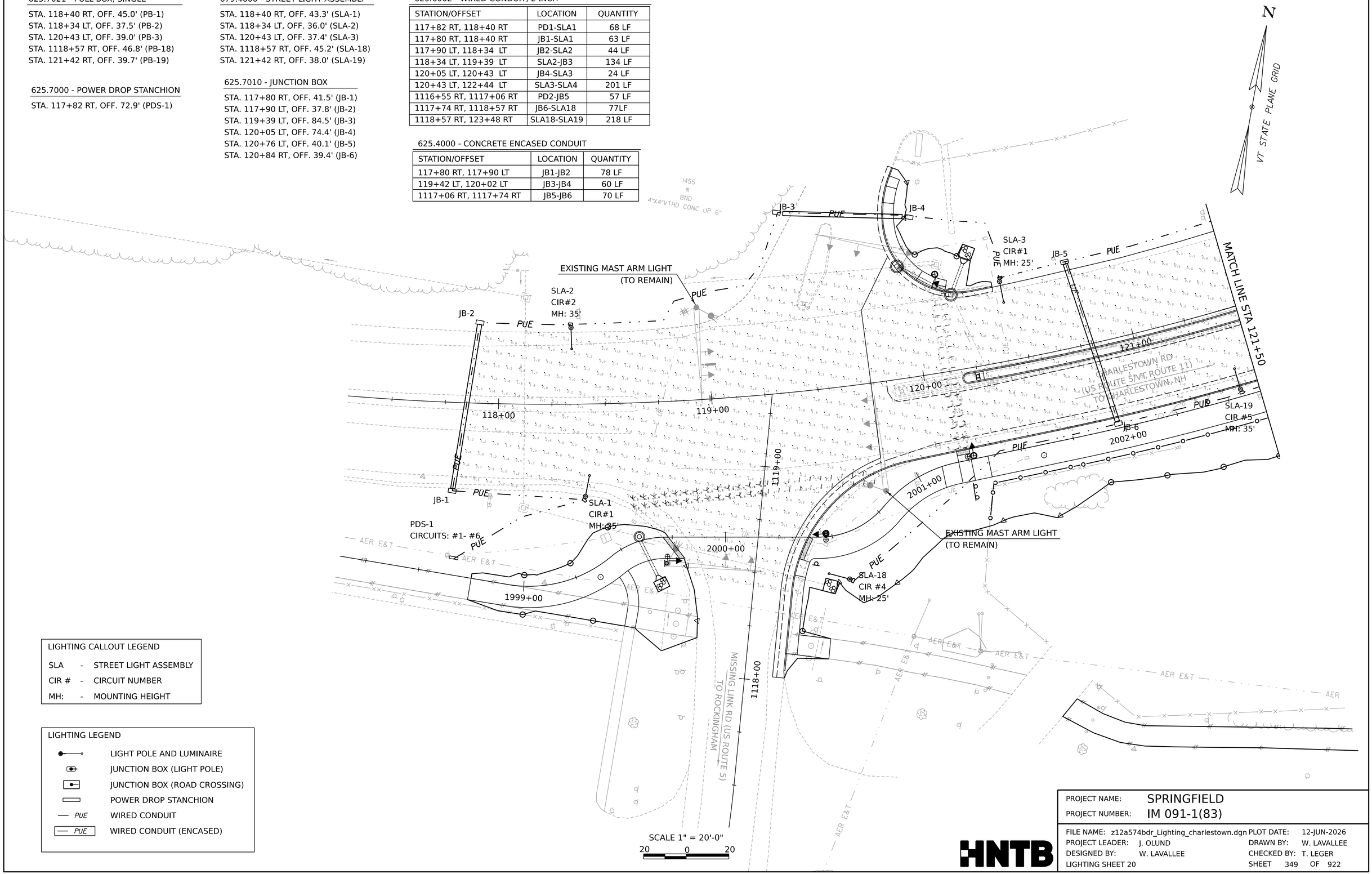
STA. 117+80 RT, OFF. 41.5' (JB-1)
STA. 117+90 LT, OFF. 37.8' (JB-2)
STA. 119+39 LT, OFF. 84.5' (JB-3)
STA. 120+05 LT, OFF. 74.4' (JB-4)
STA. 120+76 LT, OFF. 40.1' (JB-5)
STA. 120+84 RT, OFF. 39.4' (JB-6)

625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
117+82 RT, 118+40 RT	PD1-SLA1	68 LF
117+80 RT, 118+40 RT	JB1-SLA1	63 LF
117+90 LT, 118+34 LT	JB2-SLA2	44 LF
118+34 LT, 119+39 LT	SLA2-JB3	134 LF
120+05 LT, 120+43 LT	JB4-SLA3	24 LF
120+43 LT, 122+44 LT	SLA3-SLA4	201 LF
1116+55 RT, 1117+06 RT	PD2-JB5	57 LF
1117+74 RT, 1118+57 RT	JB6-SLA18	77LF
1118+57 RT, 123+48 RT	SLA18-SLA19	218 LF

625.4000 - CONCRETE ENCASED CONDUIT

STATION/OFFSET	LOCATION	QUANTITY
117+80 RT, 117+90 LT	JB1-JB2	78 LF
119+42 LT, 120+02 LT	JB3-JB4	60 LF
1117+06 RT, 1117+74 RT	JB5-JB6	70 LF



SCALE 1" = 20'-0"
20 0 20

LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_charlestown.dgn PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND DRAWN BY: W. LAVALLEE
DESIGNED BY: W. LAVALLEE CHECKED BY: T. LEGER
LIGHTING SHEET 20 SHEET 349 OF 922

625.7010 - JUNCTION BOX

STA. 127+23 RT, OFF. 41.0' (JB-7)
STA. 127+43 LT, OFF. 31.0' (JB-8)

625.4000 - CONCRETE ENCASED CONDUIT

STATION/OFFSET	LOCATION	QUANTITY
127+23 RT, 127+43 LT	JB7-JB8	75 LF

625.6002 - WIRED CONDUIT, 2 INCH

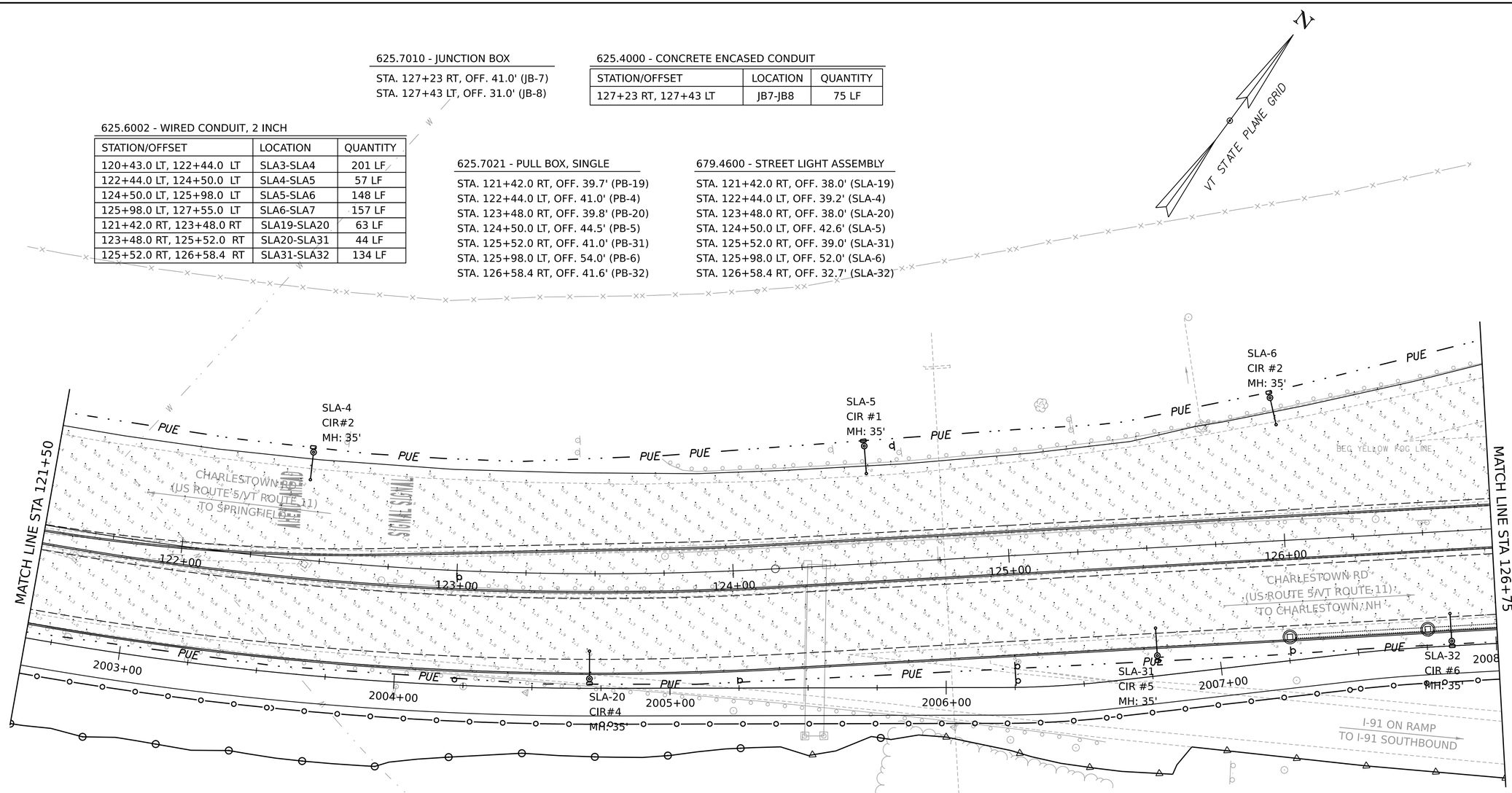
STATION/OFFSET	LOCATION	QUANTITY
120+43.0 LT, 122+44.0 LT	SLA3-SLA4	201 LF
122+44.0 LT, 124+50.0 LT	SLA4-SLA5	57 LF
124+50.0 LT, 125+98.0 LT	SLA5-SLA6	148 LF
125+98.0 LT, 127+55.0 LT	SLA6-SLA7	157 LF
121+42.0 RT, 123+48.0 RT	SLA19-SLA20	63 LF
123+48.0 RT, 125+52.0 RT	SLA20-SLA31	44 LF
125+52.0 RT, 126+58.4 RT	SLA31-SLA32	134 LF

625.7021 - PULL BOX, SINGLE

STA. 121+42.0 RT, OFF. 39.7' (PB-19)
STA. 122+44.0 LT, OFF. 41.0' (PB-4)
STA. 123+48.0 RT, OFF. 39.8' (PB-20)
STA. 124+50.0 LT, OFF. 44.5' (PB-5)
STA. 125+52.0 RT, OFF. 41.0' (PB-31)
STA. 125+98.0 LT, OFF. 54.0' (PB-6)
STA. 126+58.4 RT, OFF. 41.6' (PB-32)

679.4600 - STREET LIGHT ASSEMBLY

STA. 121+42.0 RT, OFF. 38.0' (SLA-19)
STA. 122+44.0 LT, OFF. 39.2' (SLA-4)
STA. 123+48.0 RT, OFF. 38.0' (SLA-20)
STA. 124+50.0 LT, OFF. 42.6' (SLA-5)
STA. 125+52.0 RT, OFF. 39.0' (SLA-31)
STA. 125+98.0 LT, OFF. 52.0' (SLA-6)
STA. 126+58.4 RT, OFF. 32.7' (SLA-32)



LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_Lighting_charlestown.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	W. LAVALLEE
LIGHTING SHEET 21	
PLOT DATE:	12-JUN-2026
DRAWN BY:	W. LAVALLEE
CHECKED BY:	T. LEGER
SHEET	350 OF 922

HNTB

625.4000 - CONCRETE ENCASED CONDUIT

STATION/OFFSET	LOCATION	QUANTITY
127+23 RT, 127+43 LT	JB7-JB8	75 LF
129+00 LT, 127+55 LT	JB9-JB10	55 LF

625.7010 - JUNCTION BOX

STA. 127+23 RT, OFF. 41.0' (JB-7)
STA. 127+43 LT, OFF. 31.0' (JB-8)
STA. 129+00 LT, OFF. 37.7' (JB-9)
STA. 129+55 LT, OFF. 34.4' (JB-10)

SLA-10
CIR #2
MH: 35'

SLA-9
CIR #1
MH: 35'

SLA-8
CIR #2
MH: 35'

SLA-7
CIR #1
MH: 35'

SLA-22
CIR #4
MH: 35'

SLA-21
CIR #3
MH: 35'

SLA-23
CIR #3
MH: 35'

SLA-30
CIR #4
MH: 30'

SLA-29
CIR #3
MH: 35'

SLA-33
CIR #5
MH: 35'

SLA-34
CIR #6
MH: 30'

SLA-35
CIR #5
MH: 35'

JB-7
JB-8
JB-9
JB-10

PUE

I-91 OFF RAMP TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 ON RAMP FROM CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 SOUTHBOUND

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN NH

YELLOW FOG LINE

BEG. WIDE MILL

MATCH LINE STA 126+75

MATCH LINE STA 132+25

+00
127+00
128+00
129+00
130+00
131+00
132+00
2009+00
2010+00
2011+00
2012+00
2013+00
406+00
405+00
404+00

N

VT STATE PLANE GRID

625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
125+98.0 LT, 127+55.0 LT	SLA6-SLA7	201 LF
127+55.0 LT, 128+53.0 LT	SLA7-SLA8	57 LF
128+53.0 LT, 129+72.0 LT	SLA8-SLA9	148 LF
129+72.0 LT, 130+78.0 LT	SLA9-SLA10	157 LF
130+78.0 LT, 131+76.0 LT	SLA10-SLA11	63 LF
125+52.0 RT, 126+52.0 RT	SLA31-SLA32	134 LF
126+52.0 RT, 127+23.0 RT	SLA32-JB7	134 LF
127+23.0 RT, 128+52.0 RT	JB7-SLA33	24 LF
128+52.0 RT, 128+90.0 RT	SLA33-SLA34	38 LF
128+90.0 RT, 404+44.0 LT	SLA34-SLA35	124 LF
404+44.0 LT, 403+13.0 LT	SLA35-SLA36	130 LF
127+43.0 LT, 127+50.0 LT	JB8-SLA21	7 LF
127+50.0 LT, 129+00.0 LT	SLA21-JB9	40 LF
129+55.0 LT, 129+50.0 LT	JB10-SLA22	5 LF
129+50.0 LT, 131+45.0 LT	SLA22-SLA23	200 LF
131+45.0 LT, 133+52.0 LT	SLA23-SLA24	215 LF
129+56.3 RT, 130+52.3 RT	SLA30-SLA29	97 LF
130+52.3 RT, 132+41.0 RT	SLA29-SLA28	186 LF

625.7021 - PULL BOX, SINGLE

STA. 127+50.0 LT, OFF. 30.8' (PB-21)
STA. 127+55.0 LT, OFF. 83.5' (PB-7)
STA. 128+52.0 RT, OFF. 41.0' (PB-33)
STA. 128+53.0 LT, OFF. 102.7' (PB-8)
STA. 128+90.0 RT, OFF. 42.2' (PB-34)
STA. 129+50.0 LT, OFF. 31.2' (PB-22)
STA. 130+52.3 RT, OFF. 41.7' (PB-30)
STA. 129+72.0 LT, OFF. 127.8' (PB-9)
STA. 130+52.3 RT, OFF. 47.0' (PB-29)
STA. 130+78.0 LT, OFF. 168.8' (PB-10)
STA. 131+45.0 LT, OFF. 31.6' (PB-23)
STA. 132+41 RT, OFF. 50.6' (PB-28)
STA. 404+44 LT, OFF. 12.6' (PB-35)

679.4600 - STREET LIGHT ASSEMBLY

STA. 127+50.0 LT, OFF. 29.0' (SLA-21)
STA. 127+55.0 LT, OFF. 83.5' (SLA-7)
STA. 128+52.0 RT, OFF. 39.0' (SLA-33)
STA. 128+53.0 LT, OFF. 100.7' (SLA-8)
STA. 128+90.0 RT, OFF. 43.6' (SLA-34)
STA. 129+50.0 LT, OFF. 29.4' (SLA-22)
STA. 129+56.3 RT, OFF. 40.2' (SLA-30)
STA. 129+72.0 LT, OFF. 126.1' (SLA-9)
STA. 130+52.3 RT, OFF. 45.2' (SLA-29)
STA. 130+78 LT, OFF. 167.1' (SLA-10)
STA. 131+45 LT, OFF. 29.9' (SLA-23)
STA. 132+41 RT, OFF. 49.0' (SLA-28)
STA. 404+44 LT, OFF. 10.7' (SLA-35)

LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

SCALE 1" = 20'-0"
20 0 20

SEE LIGHTING SHEETS 1 TO 19 FOR
I-91 NB, I-91 SB, & I-91 CONSTRUCTION NOTES

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_charlestown.dgn PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND DRAWN BY: W. LAVALLEE
DESIGNED BY: W. LAVALLEE CHECKED BY: T. LEGER
LIGHTING SHEET 22 SHEET 351 OF 922

625.4000 - CONCRETE ENCASED CONDUIT

STATION/OFFSET	LOCATION	QUANTITY
135+97 LT, 136+08 LT	JB11-JB12	75 LF

625.7010 - JUNCTION BOX

STA. 135+97 LT, OFF. 35.0' (JB-11)
STA. 136+08 RT, OFF. 39.7' (JB-12)

625.7021 - PULL BOX, SINGLE

STA. 132+41 RT, OFF. 50.6' (PB-28)
STA. 133+52 LT, OFF. 31.8' (PB-24)
STA. 134+32 RT, OFF. 50.4' (PB-27)
STA. 135+38 LT, OFF. 32.0' (PB-25)
STA. 211+35 LT, OFF. 24.7' (PB-26)
STA. 210+16 RT, OFF. 26.0' (PB-43)
STA.211+40 RT, OFF. 34.4' (PB-42)
STA. 300+81 RT, OFF. 13.2' (PB-55)
STA. 137+27 LT, OFF. 27.2' (PB-54)

679.4600 - STREET LIGHT ASSEMBLY

STA. 132+41 RT, OFF. 49.0' (SLA-28)
STA. 133+52 LT, OFF. 30.0' (SLA-24)
STA. 134+32 RT, OFF. 48.6' (SLA-27)
STA. 135+38 LT, OFF. 29.9' (SLA-25)
STA. 211+35 LT, OFF. 23.0' (SLA-26)
STA. 210+16 RT, OFF. 24.0' (SLA-43)
STA.211+40 RT, OFF. 32.7' (SLA-42)
STA. 300+81 RT, OFF. 11.1' (SLA-55)
STA. 137+27 LT, OFF. 27.4' (SLA-54)

N
VT STATE PLANE GRID

MATCH LINE STA 132+25

MATCH LINE STA 137+50

I-91 NORTHBOUND TO SPRINGFIELD

I-91 SOUTHBOUND TO ROCKINGHAM

CHARLESTOWN RD (US ROUTE 5/VT. ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT. ROUTE 11) TO CHARLESTOWN, NH

SLA-24 CIR #4 MH: 35'

SLA-25 CIR #3 MH: 35'

SLA-26 CIR #4 MH: 35'

SLA-27 CIR #3 MH: 35'

SLA-28 CIR #4 MH: 35'

SLA-42 CIR #8 MH: 30'

SLA-43 CIR #7 MH: 35'

SLA-54 CIR #10 MH: 35'

SLA-55 CIR #9 MH: 35'

JB-11

BORING B-I05 AS-DRILLED

BORING B-I06 AS-DRILLED

BORING B-I02 AS-DRILLED

BORING B-I01 AS-DRILLED

BORING B-I08 AS-DRILLED

PUE

625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
131+45.0 LT, 133+52.0 LT	SLA3-SLA24	215 LF
133+52.0 LT, 135+38.0 LT	SLA24-SLA25	201 LF
135+38.0 LT, 135+97.0 LT	SLA25-JB11	59 LF
130+52.3 RT, 132+41.0 RT	SLA29-SLA28	186 LF
132+41.0 RT, 134+32.0 RT	SLA28-SLA27	187 LF
134+32.0 RT, 211+35.0 RT	SLA27-JB12	167 LF
211+35.0 RT, 131+76.0 LT	JB12-SLA26	30 LF
208+88.4 RT, 210+15.6 RT	SLA44-SLA43	130 LF
210+15.6 RT, 211+40.0 RT	SLA43-SLA42	130 LF
211+40.0 RT, 128+52.0 RT	SLA42-SLA41	152 LF
302+09.0 RT, 300+81.0 RT	SLA56-SLA55	132 LF
300+81.0 RT, 300+30.0 RT	SLA55-SLA54	108 LF
300+30.0 RT, 139+30.0 LT	SLA54-SLA53	210 LF

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

LIGHTING CALLOUT LEGEND

SLA - STREET LIGHT ASSEMBLY
CIR # - CIRCUIT NUMBER
MH: - MOUNTING HEIGHT

SCALE 1" = 20'-0"
20 0 20

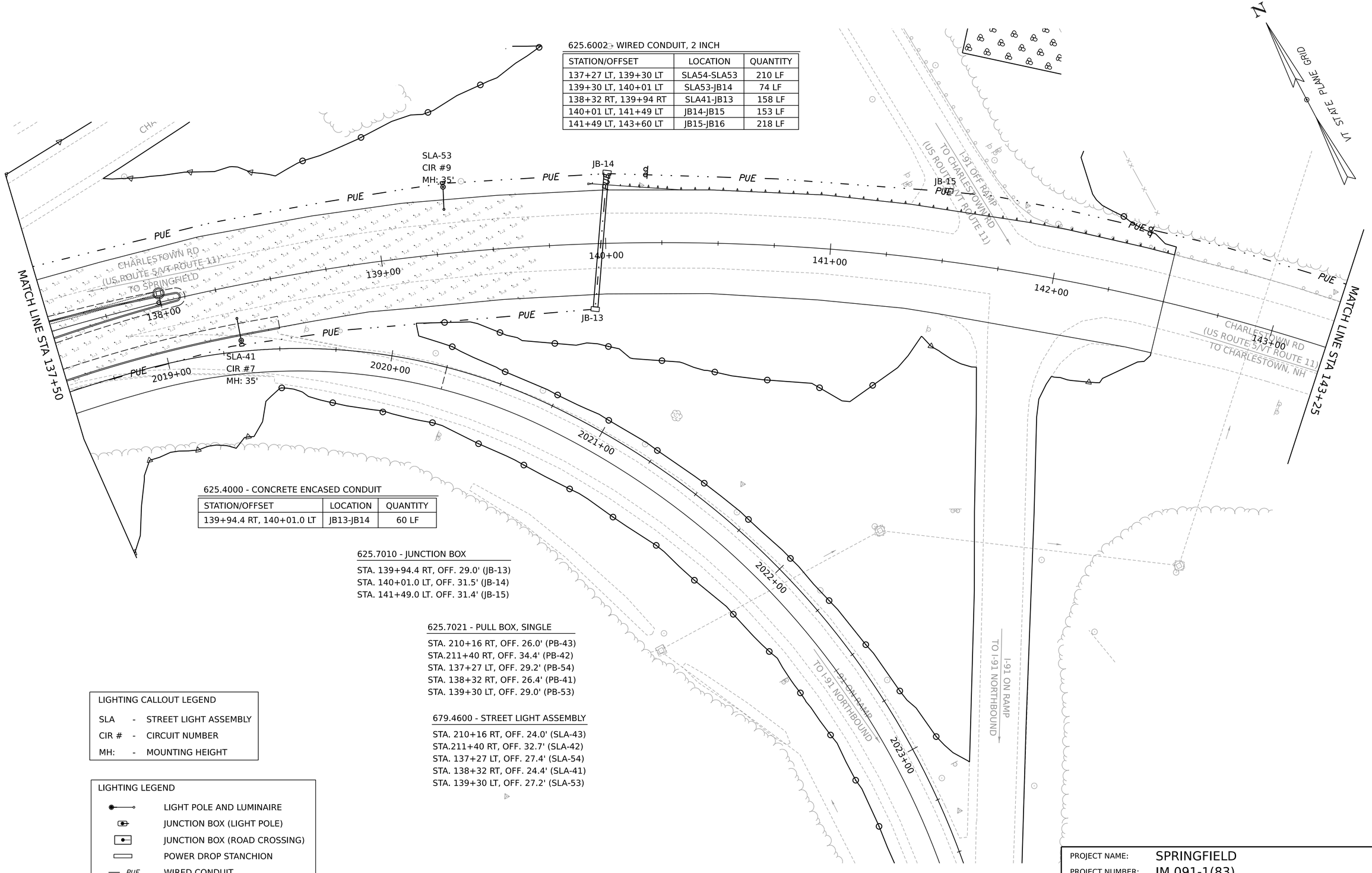
SEE LIGHTING SHEETS 1 TO 19 FOR
I-91 NB, I-91 SB, & I-91 CONSTRUCTION NOTES

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_charlestown.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING SHEET 23

PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 352 OF 922



625.6002 - WIRED CONDUIT, 2 INCH

STATION/OFFSET	LOCATION	QUANTITY
137+27 LT, 139+30 LT	SLA54-SLA53	210 LF
139+30 LT, 140+01 LT	SLA53-JB14	74 LF
138+32 RT, 139+94 RT	SLA41-JB13	158 LF
140+01 LT, 141+49 LT	JB14-JB15	153 LF
141+49 LT, 143+60 LT	JB15-JB16	218 LF

625.4000 - CONCRETE ENCASED CONDUIT

STATION/OFFSET	LOCATION	QUANTITY
139+94.4 RT, 140+01.0 LT	JB13-JB14	60 LF

625.7010 - JUNCTION BOX

STA. 139+94.4 RT, OFF. 29.0' (JB-13)
STA. 140+01.0 LT, OFF. 31.5' (JB-14)
STA. 141+49.0 LT. OFF. 31.4' (JB-15)

625.7021 - PULL BOX, SINGLE

STA. 210+16 RT, OFF. 26.0' (PB-43)
STA.211+40 RT, OFF. 34.4' (PB-42)
STA. 137+27 LT, OFF. 29.2' (PB-54)
STA. 138+32 RT, OFF. 26.4' (PB-41)
STA. 139+30 LT, OFF. 29.0' (PB-53)

679.4600 - STREET LIGHT ASSEMBLY

STA. 210+16 RT, OFF. 24.0' (SLA-43)
STA.211+40 RT, OFF. 32.7' (SLA-42)
STA. 137+27 LT, OFF. 27.4' (SLA-54)
STA. 138+32 RT, OFF. 24.4' (SLA-41)
STA. 139+30 LT, OFF. 27.2' (SLA-53)

LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_charlestown.dgn PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND DRAWN BY: W. LAVALLEE
DESIGNED BY: W. LAVALLEE CHECKED BY: T. LEGER
LIGHTING SHEET 24 SHEET 353 OF 922

625.6002 - WIRED CONDUIT, 2 INCH

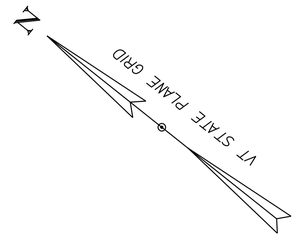
STATION/OFFSET	LOCATION	QUANTITY
148+52 LT, 146+01 LT	PDS2-JB17	260 LF
146+01 LT, 143+60 LT	JB17-JB16	250 LF

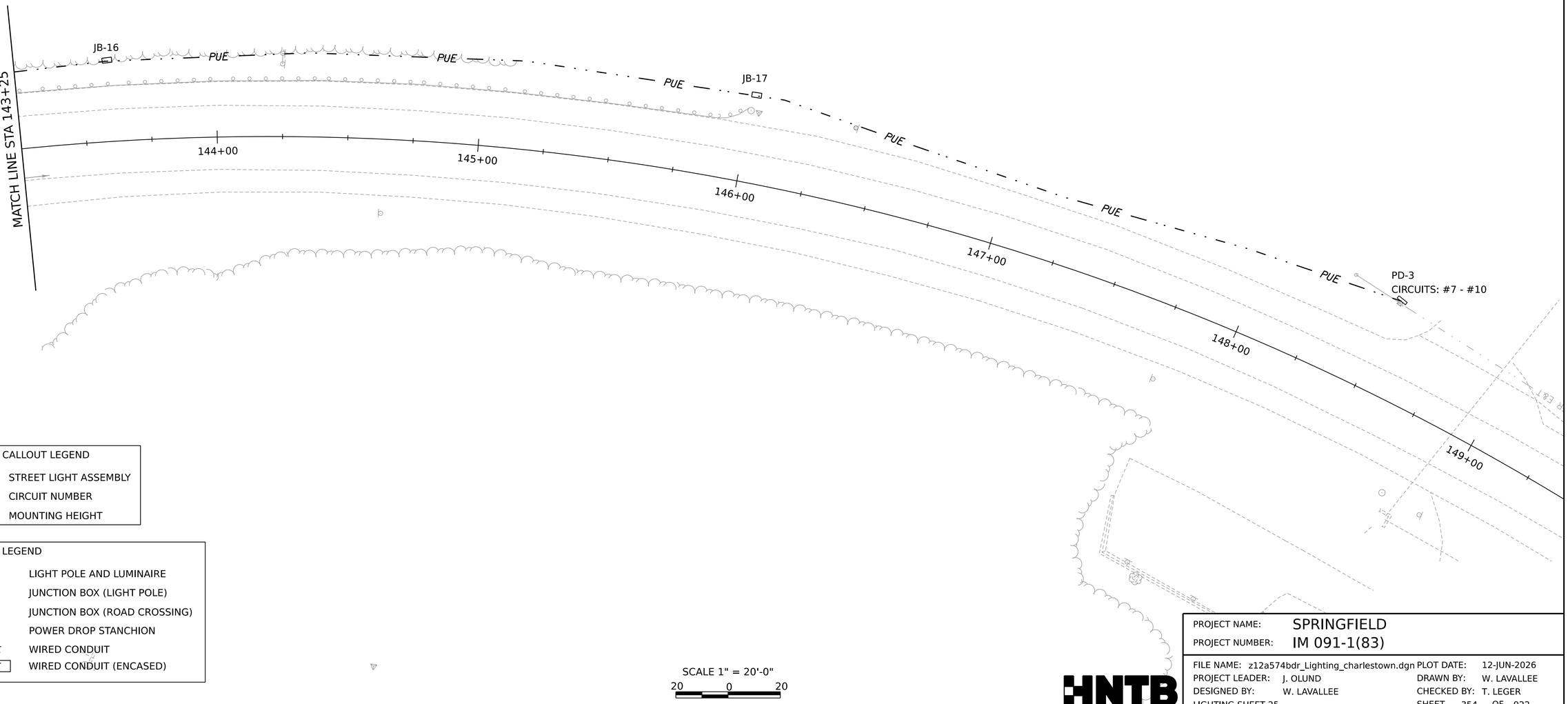
625.7000 - POWER DROP STANCHION

STA. 148+52 LT, OFF. 37.3' (PDS-2)

625.7010 - JUNCTION BOX

STA. 143+60 LT, OFF. 31.2' (JB-16)
STA. 146+01 LT, OFF. 33.7' (JB-17)





LIGHTING CALLOUT LEGEND

SLA	-	STREET LIGHT ASSEMBLY
CIR #	-	CIRCUIT NUMBER
MH:	-	MOUNTING HEIGHT

LIGHTING LEGEND

- LIGHT POLE AND LUMINAIRE
- JUNCTION BOX (LIGHT POLE)
- JUNCTION BOX (ROAD CROSSING)
- POWER DROP STANCHION
- PUE — WIRED CONDUIT
- PUE — WIRED CONDUIT (ENCASED)

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_Lighting_charlestown.dgn PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND DRAWN BY: W. LAVALLEE
DESIGNED BY: W. LAVALLEE CHECKED BY: T. LEGER
LIGHTING SHEET 25 SHEET 354 OF 922

LIGHTING NOTES:

1. SCOPE OF WORK - INSTALL HIGHWAY LIGHTING AND RELATED WORK AS SHOWN OR NOTED IN THESE PLANS AND SPECIAL PROVISIONS. INSTALL THREE (3) NEW 240V POWER SERVICES, THREE (3) MULTI-CIRCUIT LIGHTING CONTROL CABINETS AND THREE (3) SERVICE DISCONNECT ENCLOSURES FOR NEW LIGHTING. FURNISH AND INSTALL CONDUIT, FOUNDATIONS, CONVENTIONAL LIGHT STANDARDS, L.E.D. LUMINAIRES, WIRING, AND RELATED HARDWARE.

2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO APPLICABLE PROVISIONS OF THE CURRENT EDITIONS OF THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DETAILS, NATIONAL ELECTRICAL CODE (N.E.C.) AND ANY REQUIREMENTS OF THE POWER COMPANY.

3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO ENSURE AWARENESS OF SITE CONDITIONS THAT COULD AFFECT THE BID.

4. THE CONTRACTOR SHALL FIELD VERIFY POLE LOCATIONS TO AVOID NATURAL AND BUILT SITE FEATURES THAT WOULD CONFLICT WITH PROPER INSTALLATION OF POLE FOUNDATIONS.

5. BASELINE STATIONS AND OFFSETS CITED ON THE PLANS FOR PROPOSED LIGHT POLE LOCATIONS ARE INTENDED TO INDICATE LONGITUDINAL SPACING OF NEW POLES ALONG THE HIGHWAY AND APPROXIMATE OFFSETS FROM BASELINES. THE CONTRACTOR SHALL STAKE THESE LOCATIONS IN THE FIELD BASED ON THE STATED STATIONS AND OFFSETS, IF NEEDED TO MEET REQUIRED SETBACKS NOTED ON THE LIGHTING TYPICAL SECTIONS OR TO AVOID CONFLICTS WITH EXISTING ELECTRICAL CONDUIT OR OTHER ROADWAY FEATURES. THESE LOCATIONS SHALL BE ADJUSTED, SUBJECT TO APPROVAL OF THE RESIDENT ENGINEER.

6. EXISTING GUARDRAIL WILL BE ALLOWED TO BE TEMPORARILY REMOVED FOR ACCESS FOR INSTALLATION OF POLES AND FOUNDATIONS BEHIND GUARDRAIL. APPROPRIATE TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE USED AT AREAS OF GUARDRAIL REMOVAL. LENGTH OF GUARDRAIL REMOVED SHALL BE THE MINIMUM NECESSARY FOR ACCESS. GUARDRAIL SHALL BE RESET AS SOON AS PRACTICABLE. PAYMENT FOR GUARDRAIL REMOVAL AND RESETTING WILL BE INCIDENTAL TO ITEM 679.4600, STREET LIGHT ASSEMBLY.

7. INSTALL NEW 240V SERVICE AND MULTI-CIRCUIT CONTROL CABINET LOCATED AT 117+82 RT MISSING LINK RD (VT ROUTE 11), AND 148+52 LT CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) AS SHOWN ON THESE PLANS AND IN THE STANDARD DETAILS. THE METER AND A METER DISCONNECT IN A SEPARATE NEMA 3R ENCLOSURE SHALL BE INSTALLED ON THE SIDE OF THE LIGHTING CONTROL CABINET. INSTALL METALLIC CONDUIT UNDER SERVICE METER TO THE POWER SOURCE. THE LIGHTING CONTROL CABINETS AND SERVICE DISCONNECT ENCLOSURES SHALL BE LOCKABLE. DISCONNECT ENCLOSURE AND OTHER ENCLOSURES FOR ELECTRICAL COMPONENTS SHALL BE MARKED WITH ARC FLASH HAZARD LABELS INDICATING HAZARD TYPE 1, 2, 3, OR 4 AND THE APPROPRIATE PPE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THE ARC FLASH HAZARD LEVEL FOR EACH ELECTRICAL ENCLOSURE.

8. NEW CIRCUITS #1 AND #2 WILL SERVE 17 LIGHTS FROM THE POWER DROP AT THE PARK N' RIDE ON US ROUTE 5 TO THE I-91 SB OFF RAMP. NEW CIRCUITS #3 AND #4 WILL SERVE 12 LIGHTS TO PORTIONS OF US ROUTE 5. NEW CIRCUITS #5 AND #6 WILL SERVE 11 LIGHTS TO PORTIONS OF US ROUTE 5 AND THE I-91 SB ON RAMP. NEW CIRCUITS #7 AND #8 WILL SERVE 12 LIGHTS FROM THE POWER DROP ON THE EAST SIDE OF US ROUTE 5 (ULTIMATE AUTOBODY) TO PORTIONS OF US ROUTE 5 AND THE I-91 NB OFF RAMP. NEW CIRCUITS #9 AND #10 WILL SERVE 12 LIGHTS FROM THE POWER DROP ON THE EAST SIDE OF US ROUTE 5 (ULTIMATE AUTOBODY) TO PORTIONS OF US ROUTE 5 AND THE I-91 NB ON RAMP.

9. STREET LIGHTING CONTROL DEVICE

   A. STREET LIGHTING CONTROL DEVICE SHALL BE A PHOTOCELL MOUNTED ON THE SIDE OF THE POWER STANCHION, FACING NORTH OR IN A LOCATION REQUESTED BY GREEN MOUNTAIN POWER.

   B. STREET LIGHTING EQUIPMENT SHALL BE WIRED SUCH THAT ONE CONTROL DEVICE COMMANDS THE FUNCTIONS ASSOCIATED WITH POWERING UP AND DOWN ALL LUMINAIRES.

   C. THE RELAY SHALL HAVE A TIME DELAY TO AVOID OPERATION DUE TO LIGHTING AND TRANSIENT LIGHT.

   D. IN THE EVENT OF FAILURE, THE RELAY SHALL FAIL SAFE, THAT IS, THE LIGHTS ARE LEFT ON IN THE EVENT OF ANY FAILURE IN THE ELECTRONIC CIRCUIT.

   E. A LIGHTING ARRESTER SHALL BE INCLUDED AS PART OF THE STREET LIGHTING CONTROL DEVICE.

10. THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY AND VTRANS TO CONFIRM LOCATIONS AND MAKE ARRANGEMENTS FOR PROVIDING NEW ELECTRIC SERVICES.

11. NEW LIGHTING CIRCUITS ARE TO BE PHOTOCELL ACTIVATED BY PHOTOCELL ON THE NEW LIGHTING CABINET, WITH AN ASTRONOMICAL CLOCK INSTALLED AS A BACKUP, IN THE EVENT THAT THE PHOTOCELL FAILS.

12. NEW LIGHTING FIXTURE VOLTAGE SHALL BE 240V.

13. NEW LIGHTING FIXTURES SHALL BE FULL IES CUTOFF LIGHT EMITTING DIODE (LED) FIXTURES WITH 3000K COLOR TEMPERATURE. IES DISTRIBUTION TYPE SHALL BE AS SPECIFIED ON THE PLANS. LED MODULES SHALL BE IP65 OR IP66 RATED.

    LED COLOR TEMPERATURE FOR FIXTURES INSTALLED SHALL BE 3000K. IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE FULL IES CUTOFF LED LUMINAIRES WITH THE SAME DISTRIBUTION TYPES AS USED IN THE ORIGINAL DESIGN. THE CONTRACTOR MUST DEMONSTRATE THAT THE PROPOSED FIXTURES WILL REASONABLY EQUAL THE LIGHT LEVELS AND DISTRIBUTIONS SHOWN ON THE PLANS, IN THE OPINION OF VTRANS.

14. THE PHOTOMETRIC GRID SHOWN ON THE LIGHTING PLANS SHOWS COVERAGE OF ILLUMINATION FOR AREAS OF POTENTIAL CONFLICTS, SIGNIFICANT CURVATURE, BRIDGE DECKS, AND OTHER AREAS OF POTENTIAL NEED FOR ENHANCED VISIBILITY. GAPS IN THE GRID ARE NOT INTENDED TO INDICATE THAT NO ILLUMINATION IS TO BE PROVIDED FOR THOSE AREAS.

15. THE LIGHTING STATISTICS SCHEDULE ON THESE PLANS INDICATES PHOTOMETRIC RESULTS OF MODELING.

16. POLES FOR STREET LIGHT ASSEMBLIES SHALL BE ALUMINUM AND HAVE A MINIMUM OF FOUR (4) ANCHOR BOLTS. ALL LIGHT STANDARDS SHALL BE INSTALLED WITH BREAKAWAY DEVICES. TIGHTENING OF ANCHOR BOLT NUTS ON POLES WITH BREAKAWAY BASES SHALL BE AS RECOMMENDED BY THE BREAKAWAY BASE MANUFACTURER.

17. LIGHTING FIXTURES ON STREET LIGHT ASSEMBLIES SHALL ATTACH TO POLES BY A MINIMAL LENGTH TENON, 2-INCH NOMINAL DIAMETER. INSTALLATION ON BRACKET ARMS WILL NOT BE ALLOWED.

18. NEW POWER SERVICE CONDUIT REQUIRED BETWEEN THE POWER SOURCE AND THE METER SHALL BE RIGID METAL CONDUIT. INSTALLATION OF RIGID METAL CONDUIT SHALL BE INCIDENTAL TO PAY ITEM 679.4600. OTHER NEW BURIED CONDUIT SHALL BE 2 INCH MINIMUM DIAMETER AND SHALL BE PAID FOR UNDER ITEM 625.6002. REQUIREMENT OF LARGER CONDUIT SIZE SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH CONDUIT FILL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

19. CONDUIT UNDER EXISTING PAVEMENT THAT OTHERWISE IS NOT SHOWN ON THE PLANS TO BE DISTURBED BY ROADWAY RECONSTRUCTION SHALL BE HYDRAULICALLY JACKED OR DIRECTIONAL BORED TO AT LEAST TEN FEET BEYOND THE EDGE OF PAVEMENT. CONDUIT INSTALLED UNDER PAVEMENT WILL BE PAID UNDER ITEM 209.0100 TRENCHLESS EXCAVATION, HORIZONTAL DIRECTIONAL DRILLING FOR THE PAVEMENT WIDTH PLUS 20 FEET. NO TRENCHING ACROSS EXISTING PAVED ROADWAY LANES OR SHOULDERS WILL BE ALLOWED. MINIMUM BURIAL DEPTH FOR ALL CONDUIT SHALL BE 36 INCHES.

20. BUSHINGS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.

21. PULL WIRE SHALL BE INSTALLED IN ALL NEW CONDUIT.

22. ALL EXPOSED RIGID CONDUIT FITTINGS AND HARDWARE SHALL BE GALVANIZED, EXCEPT NON-CONDUCTIVE BUSHINGS FOR CONNECTION OF RIGID METAL CONDUIT TO ALUMINUM CABINETS.

23. SECONDARY CIRCUIT WIRING SHALL BE STRANDED COPPER XHHW-2. ALL WIRING SHALL NO. 6 AWG OR LARGER SIZE. WIRE SIZES NOTED ON THE PLANS ARE APPROXIMATE. FINAL WIRE SIZING SHALL BE PERFORMED BY THE CONTRACTOR IN CONFORMANCE WITH NATIONAL ELECRICAL CODE REQUIREMENTS BASED ON ELECTRICAL LOADS OF ACTUAL ELECTRICAL COMPONENTS TO BE INSTALLED.

24. JUNCTION BOXES SHOWN ON THE PLANS ARE SHOWN IN APPROXIMATE LOCATIONS AND ARE INTENDED FOR USE ONLY AS PULL BOXES FOR WIRE PULLING ACCESS UNLESS OTHERWISE NOTED. EACH LIGHTING RUN SHALL HAVE ALTERNATING LIGHT CIRCUITS, SO IN THE EVENT THAT A LIGHT POLE IS STRUCK, HALF OF THE LIGHTING LIGHTING RUN WILL STILL FUNCTION AS INTENDED. SPLICES SHALL ONLY BE MADE AT PULL BOXES, JUNCTION BOXES, OR POLE BASES.

25. CAP AND/OR SEAL EXPOSED ENDS OF CONDUIT TO PREVENT INTRUSION OF MOISTURE OR RODENTS. PAYMENT FOR NON-METALLIC CONDUIT WILL BE MADE UNDER ITEM 625.6002.

26. BREAKAWAY DEVICES FOR CONVENTIONAL LIGHT STANDARDS SHALL CONFORM TO THE LATEST VERSION OF "AASHTO STANDARD SPECIFICATONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AND NCHRP REPORT 350. THE BREAKAWAY DEVICE SHALL BE DESIGNED SO THAT THE ANCHOR BOLTS WILL NOT BEND WHEN A VEHICLE HITS THE POLE. A FRANGIBLE COUPLING SUCH AS TRANSPO POLE-SAFE 5000 SERIES (WITH A FEMALE ANCHOR), THE MANITOBA SAFETY BASE WITH REACTION PLATE, OR APPROVED EQUAL SHALL BE USED.

27. ALL LIGHT POLES SHALL BE BONDED WITH A GROUNDING CONDUCTOR.

28. METAL FRAMES AND CONDUCTIVE COVERS OF JUNCTION BOXES SHALL BE BONDED TO THE GROUNDING CONDUCTOR.

29. JUNCTION BOXES SHALL BE HS-20 RATED. POLYMER JUNCTION BOXES MEETING THAT REQUIREMENT WILL BE ACCEPTABLE. JUNCTION BOXES WITH DIMENSIONS LARGER THAN SHOWN IN THE STANDARD DETAILS MAY BE ALLOWED FOR EASE OF WIRE PULLING ACCESS.

30. ALL FOUNDATIONS FOR STREET LIGHT ASSEMBLIES SHALL HAVE A GROUNDING ROD LOCATED IN OR ADJACENT TO THE FOUNDATION THAT IS BONDED TO THE GROUNDING CONDUCTOR. THE GROUND WIRE FOR THE GROUND ROD SHALL EXIT THROUGH A HALF-INCH DIAMETER CONDUIT IN THE FOUNDATION. PAYMENT FOR GROUND RODS AND GROUND WIRE CONDUIT IN FOUNDATIONS SHALL BE INCLUDED IN ITEM 679.4600, STREET LIGHT ASSEMBLY.

31. CURING BOXES AND ALL REQUIRED CONCRETE TESTING, LABOR, MATERIALS, AND EQUIPMENT FOR LIGHTING FOUNDATIONS WILL BE CONSIDERED INCIDENTAL TO ITEM 679.4600, STREET LIGHT ASSEMBLY.

32. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO VTRANS A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574lighting_details.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: W. LAVALLEE
LIGHTING NOTES

PLOT DATE: 12-JUN-2026
DRAWN BY: W. LAVALLEE
CHECKED BY: T. LEGER
SHEET 355 OF 922

BUS 100 AMP

PANEL RATING 22 KAIC

SUPPLY VOLTAGE 240

SERVICE SINGLE PHASE

PANEL No. PP-1

LOCATION CHARLESTOWN RD (WEST)

MOUNTING PEDESTAL MOUNT

DRAWING No. NA

WIRING		DESCRIPTION	VA OR W		BREAKER		CKT	BUS		CKT	BREAKER		VA OR W		DESCRIPTION	WIRING	
WIRE	COND		ØA	ØB	POLE	A	NO.	CONN		NO.	POLE	A	ØA	ØB		COND	WIRE
2-#6	2"	SLA: 1, 3, 5, 7, 9, -	486		2	20	1	·		2	2	20	432		SLA: 1, 3, 5, 7, 9, -	2"	2-#6
1-#6 GROUND		11, 13, 15, 17		486			3		·	4				432	11, 13, 15, 17		1-#6 GROUND
2-#6	2"	SLA: 21, 23, 25, 27, -	270		2	20	5	·		6	2	20	378		SLA: 21, 23, 25, 27, -	2"	2-#6
1-#6 GROUND		29		270			7		·	8				378	29		1-#6 GROUND
2-#6	2"	SLA: 19, 31, 35, -	324		2	20	9	·		10	2	20	270		SLA: 19, 31, 35, -	2"	2-#6
1-#6 GROUND		37, 39		324			11		·	12				270	37, 39		1-#6 GROUND
2-#12/1-#12G	3/4"	PANEL CONTROL CIRCUIT	100		1	15	13	·		14					SPARE		
		SPARE					15		·	16					SPARE		
		SPARE					17	·		18					SPARE		
		SPARE					19		·	20					SPARE		
		SPARE					21	·		22					SPARE		
		SPARE					23		·	24					SPARE		
		TOTAL 1	1180	1080						TOTAL 2			1080	1080			
		TOTAL 2	1080	1080													
		TOTAL 1 + 2	2260	2160													

CONN. LOAD TOTAL 4420

AMPERES 18

MAIN BREAKER 100-2P

FEEDER ENTRANCE BOTTOM

FEEDER SIZE 3-#2 AWG, 2"C

SOURCE GMP SERVICE DROP

PANEL TYPE LOAD CENTER

MAIN LUGS N/A

ENCLOSURE TYPE METER PEDESTAL

ACCESSORIES NEMA 1 PANEL ENCLOSURE

CONDUIT AND WIRE SCHEDULE LIGHTING CIRCUITS 1-6 (POWER DROP #1)

LOCATION	WIRED CONDUIT 2" #6 CU. (2 CIRCUITS)	WIRED CONDUIT 2" #6 CU. (2 CIRCUITS)	DESCRIPTION	LOCATION	WIRED CONDUIT 2" #6 CU. (2 CIRCUITS)	WIRED CONDUIT 2" #6 CU. (1 CIRCUIT)	DESCRIPTION	LOCATION	WIRED CONDUIT 2" #6 CU. (2 CIRCUITS)	WIRED CONDUIT 2" #6 CU. (1 CIRCUIT)	DESCRIPTION
PDS-1 TO SLA-1	69	-	CIRCUITS #1, #2	PDS-1 TO SLA-1	69	-	CIRCUITS #3, #4	PDS-1 TO SLA-1	69	-	CIRCUITS #5, #6
SLA-1 TO JB-1	63	-	CIRCUITS #1, #2	SLA-1 TO JB-1	63	-	CIRCUITS #3, #4	SLA-1 TO JB-1	63	-	CIRCUITS #5, #6
JB-1 TO JB-2	80	-	CIRCUITS #1, #2	JB-1 TO JB-2	80	-	CIRCUITS #3, #4	JB-1 TO JB-2	80	-	CIRCUITS #5, #6
JB-2 TO SLA-2	43	-	CIRCUITS #1, #2	JB-2 TO SLA-2	43	-	CIRCUITS #3, #4	JB-2 TO SLA-2	43	-	CIRCUITS #5, #6
SLA-2 TO JB-3	126	-	CIRCUITS #1, #2	SLA-2 TO JB-3	126	-	CIRCUITS #3, #4	SLA-2 TO JB-3	126	-	CIRCUITS #5, #6
JB-3 TO JB-4	62	-	CIRCUITS #1, #2	JB-3 TO JB-4	62	-	CIRCUITS #3, #4	JB-3 TO JB-4	62	-	CIRCUITS #5, #6
JB-4 TO SLA-3	53	-	CIRCUITS #1, #2	JB-4 TO SLA-3	53	-	CIRCUITS #3, #4	JB-4 TO SLA-3	53	-	CIRCUITS #5, #6
SLA-3 TO JB-5	32	-	CIRCUITS #1, #2	SLA-3 TO JB-5	32	-	CIRCUITS #3, #4	SLA-3 TO JB-5	32	-	CIRCUITS #5, #6
JB-5 TO SLA-4	162	-	CIRCUITS #1, #2	JB-5 TO JB-6	80	-	CIRCUITS #3, #4	JB-5 TO JB-6	80	-	CIRCUITS #5, #6
SLA-4 TO SLA-5	200	-	CIRCUITS #1, #2	JB-6 TO SLA-18	-	158	CIRCUIT #4	JB-6 TO SLA-19	60	-	CIRCUITS #5, #6
SLA-5 TO SLA-6	149	-	CIRCUITS #1, #2	JB-6 TO SLA-19	60	-	CIRCUITS #3, #4	SLA-19 TO SLA-20	214	-	CIRCUITS #5, #6
SLA-6 TO SLA-7	160	-	CIRCUITS #1, #2	SLA-18 TO JB-6	-	158	CIRCUIT #4	SLA-20 TO SLA-31	206	-	CIRCUITS #5, #6
SLA-7 TO SLA-8	100	-	CIRCUITS #1, #2	SLA-19 TO SLA-20	214	-	CIRCUITS #3, #4	SLA-31 TO SLA-32	101	-	CIRCUITS #5, #6
SLA-8 TO SLA-9	130	-	CIRCUITS #1, #2	SLA-20 TO SLA-31	206	-	CIRCUITS #3, #4	SLA-32 TO JB-7	71	-	CIRCUITS #5, #6
SLA-9 TO SLA-10	130	-	CIRCUITS #1, #2	SLA-31 TO SLA-32	101	-	CIRCUITS #3, #4	JB-7 TO SLA-33	130	-	CIRCUITS #5, #6
SLA-10 TO SLA-11	131	-	CIRCUITS #1, #2	SLA-32 TO JB-7	71	-	CIRCUITS #3, #4	SLA-33 TO SLA-34	37	-	CIRCUITS #5, #6
SLA-11 TO SLA-12	130	-	CIRCUITS #1, #2	JB-7 TO JB-8	74	-	CIRCUITS #3, #4	SLA-34 TO SLA-35	119	-	CIRCUITS #5, #6
SLA-12 TO SLA-13	131	-	CIRCUITS #1, #2	JB-8 TO SLA-21	8	-	CIRCUITS #3, #4	SLA-35 TO SLA-36	130	-	CIRCUITS #5, #6
SLA-13 TO SLA-14	130	-	CIRCUITS #1, #2	SLA-21 TO JB-9	151	-	CIRCUITS #3, #4	SLA-36 TO SLA-37	130	-	CIRCUITS #5, #6
SLA-14 TO SLA-15	131	-	CIRCUITS #1, #2	JB-9 TO JB-10	56	-	CIRCUITS #3, #4	SLA-37 TO SLA-38	129	-	CIRCUITS #5, #6
SLA-15 TO SLA-16	131	-	CIRCUITS #1, #2	JB-10 TO SLA-22	6	-	CIRCUITS #3, #4	SLA-38 TO SLA-39	130	-	CIRCUITS #5, #6
SLA-16 TO SLA-17	-	130	CIRCUIT #1	SLA-22 TO SLA-23	201	-	CIRCUITS #3, #4	SLA-39 TO SLA-40	-	129	CIRCUIT #6
				SLA-23 TO SLA-24	215	-	CIRCUITS #3, #4				
				SLA-24 TO SLA-25	192	-	CIRCUITS #3, #4				
				SLA-25 TO JB-11	61	-	CIRCUITS #3, #4				
				JB-11 TO JB-12	75	-	CIRCUITS #3, #4				
				JB-12 TO SLA-26	-	30	CIRCUIT #4				
				SLA-26 TO JB-12	-	30	CIRCUIT #4				
				JB-12 TO SLA-27	167	-	CIRCUITS #3, #4				
				SLA-27 TO SLA-28	187	-	CIRCUITS #3, #4				
				SLA-28 TO SLA-29	187	-	CIRCUITS #3, #4				
				SLA-29 TO SLA-30	-	97	CIRCUIT #4				

HNTB

PROJECT NAME: SPRINGFIELD

PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574lighting_details.dgn

PROJECT LEADER: J. OLUND

DESIGNED BY: W. LAVALLEE

LIGHTING TABLES

PLOT DATE: 12-JUN-2026

DRAWN BY: W. LAVALLEE

CHECKED BY: T. LEGER

BUS 100 AMP

PANEL RATING 22 KAIC

SUPPLY VOLTAGE 240

SERVICE SINGLE PHASE

PANEL No. PP-2

LOCATION CHARLESTOWN RD (EAST)

MOUNTING PEDESTAL MOUNT

DRAWING No. NA

WIRING		DESCRIPTION	VA OR W		BREAKER		CKT	BUS		CKT	BREAKER		VA OR W		DESCRIPTION	WIRING	
WIRE	COND		ØA	ØB	POLE	A	NO.	CONN		NO.	POLE	A	ØA	ØB		COND	WIRE
2-#6	2"	SLA: 41, 43, 45, 47, -	486		2	20	1	·		2	2	20	432		SLA: 42, 44, 46, 48, 50, -	2"	2-#6
1-#6 GROUND		49, 51		486			3		·	4				432	52		1-#6 GROUND
2-#6	2"	SLA: 53, 55, 57, 59 -	270		2	20	5	·		6	2	20	378		SLA: 54, 56, 58, 60, 62 -	2"	2-#6
1-#6 GROUND		61, 63		270			7		·	8				378	64		1-#6 GROUND
2-#12/1-#12G	3/4"	PANEL CONTROL CIRCUIT	100		1	15	9	·		10					SPARE		
		SPARE					11		·	12					SPARE		
		SPARE					13	·		14					SPARE		
		SPARE					15		·	16					SPARE		
		SPARE					17	·		18					SPARE		
		SPARE					19		·	20					SPARE		
		SPARE					21	·		22					SPARE		
		SPARE					23		·	24					SPARE		
		TOTAL 1	856	756						TOTAL 2			810	810			
		TOTAL 2	810	810													
		TOTAL 1 + 2	1666	1566													

CONN. LOAD TOTAL 3232

AMPERES 10.8

MAIN BREAKER 100-2P

FEEDER ENTRANCE BOTTOM

FEEDER SIZE 3-#2 AWG, 2"C

SOURCE GMP SERVICE DROP

PANEL TYPE LOAD CENTER

MAIN LUGS N/A

ENCLOSURE TYPE METER PEDESTAL

ACCESSORIES NEMA 1 PANEL ENCLOSURE

CONDUIT AND WIRE SCHEDULE LIGHTING CIRCUITS 7-10 (POWER DROP #2)

LOCATION	WIRED CONDUIT 2" #6 CU. (2 CIRCUITS)	WIRED CONDUIT 2" #6 CU. (1 CIRCUITS)	DESCRIPTION	LOCATION	WIRED CONDUIT 2" #6 CU. (2 CIRCUITS)	WIRED CONDUIT 2" #6 CU. (1 CIRCUIT)	DESCRIPTION
PDS-2 TO JB-17	260	-	CIRCUITS #7, #8	PDS-2 TO JB-17	260	-	CIRCUITS #9, #10
JB-17 TO JB-16	250	-	CIRCUITS #7, #8	JB-17 TO JB-16	250	-	CIRCUITS #9, #10
JB-16 TO JB-15	217	-	CIRCUITS #7, #8	JB-16 TO JB-15	217	-	CIRCUITS #9, #10
JB-15 TO JB-14	153	-	CIRCUITS #7, #8	JB-15 TO JB-14	153	-	CIRCUITS #9, #10
JB-14 TO JB-13	61	-	CIRCUITS #7, #8	JB-14 TO SLA-53	73	-	CIRCUITS #9, #10
JB-13 TO SLA-41	158	-	CIRCUITS #7, #8	SLA-53 TO SLA-54	210	-	CIRCUITS #9, #10
SLA-41 TO SLA-42	163	-	CIRCUITS #7, #8	SLA-54 TO SLA-55	107	-	CIRCUITS #9, #10
SLA-42 TO SLA 43	128	-	CIRCUITS #7, #8	SLA-55 TO SLA-56	133	-	CIRCUITS #9, #10
SLA-43 TO SLA-44	131	-	CIRCUITS #7, #8	SLA-56 TO SLA-57	130	-	CIRCUITS #9, #10
SLA-44 TO SLA-45	130	-	CIRCUITS #7, #8	SLA-57 TO SLA-58	130		CIRCUITS #9, #10
SLA-45 TO SLA-46	130	-	CIRCUITS #7, #8	SLA-58 TO SLA-59	130	-	CIRCUITS #9, #10
SLA-46 TO SLA-47	129	-	CIRCUITS #7, #8	SLA-59 TO SLA-60	130		CIRCUITS #9, #10
SLA-47 TO SLA-48	130	-	CIRCUITS #7, #8	SLA-60 TO SLA-61	131	-	CIRCUITS #9, #10
SLA-48 TO SLA-49	130	-	CIRCUITS #7, #8	SLA-61 TO SLA-62	130	-	CIRCUITS #9, #10
SLA-49 TO SLA-50	130	-	CIRCUITS #7, #8	SLA-62 TO SLA-63	130	-	CIRCUITS #9, #10
SLA-50 TO SLA-51	129	-	CIRCUITS #7, #8	SLA-63 TO SLA-64	-	131	CIRCUIT #10
SLA-51 TO SLA-52	-	130	CIRCUIT #8				

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
HORIZONTAL ILLUMINANCE (RTE. 5)	+	1.31 fc	3.9 fc	0.40 fc	3.28 fc	9.75 fc
HORIZONTAL ILLUMINANCE (I-91 SB OFF)	+	1.13 fc	2.30 fc	0.40 fc	2.83 fc	5.75 fc
HORIZONTAL ILLUMINANCE (I-91 SB ON)	+	1.07 fc	2.10 fc	0.50 fc	2.14 fc	4.20 fc
HORIZONTAL ILLUMINANCE (I-91 NB OFF)	+	1.13 fc	2.30 fc	0.40 fc	2.83 fc	5.75 fc
HORIZONTAL ILLUMINANCE (I-91 NB ON)	+	1.11 fc	2.10 fc	0.40 fc	2.78 fc	5.25 fc
HORIZONTAL ILLUMINANCE (MISSING LINK)	+	1.71 fc	2.90 fc	0.4 fc	4.28 fc	7.25 fc
HORIZONTAL ILLUMINANCE (I-91 NB INT)	+	1.47 fc	3.40 fc	0.50 fc	2.94 fc	6.80 fc
HORIZONTAL ILLUMINANCE (I-91 SB ON INT)	+	2.43 fc	2.70 fc	2.10 fc	1.16 fc	1.29 fc
HORIZTONAL ILLUMINANCE (MISSING LINK INT)	+	1.71 fc	2.90 fc	0.40 fc	4.28 fc	7.25 fc
VERTICAL ILLUMINANCE (I-91 SB ON N)	+	1.93 fc	2.50 fc	1.60 fc	1.21 fc	1.56 fc
VERTICAL ILLUMINANCE (I-91 SB ON NE)	+	1.81 fc	2.60 fc	1.30 fc	1.39 fc	2.00 fc
VERTICAL ILLUMINANCE (I-91 SB ON NW)	+	2.01 fc	2.40 fc	1.70 fc	1.18 fc	1.41 fc
VERTICAL ILLUMINANCE (I-91 NB OFF)	+	2.13 fc	2.9 fc	1.10 fc	1.94 fc	2.64 fc
VERTICAL ILLUMINANCE (RTE. 5 EB SW)	+	0.81 fc	1.00 fc	0.60 fc	1.35 fc	1.67 fc
VERTICAL ILLUMINANCE (RTE. 5 EB W)	+	0.86 fc	1.00 fc	0.70 fc	1.23 fc	1.43 fc
VERTICAL ILLUMINANCE (RTE. 5 WB)	+	1.94 fc	3.10 fc	1.10 fc	1.76 fc	2.82 fc
VERTICAL ILLUMINANCE (MISSING LINK NB)	+	2.33 fc	3.70 fc	1.00 fc	2.33 fc	3.70 fc
VERTICAL ILLUMINANCE (MISSING LINK SB N)	+	0.65 fc	0.80 fc	0.50 fc	1.30 fc	1.60 fc
VERTICAL ILLUMINANCE (MISSING LINK SB NE)	+	0.66 fc	0.80 fc	0.50 fc	1.32 fc	1.60 fc
VERTICAL ILLUMINANCE (MISSING LINK SB NW)	+	1.07 fc	1.40 fc	0.70 fc	1.53 fc	2.00 fc

LIGHT POLE FIXTURE SCHEDULE

MANUFACTURER	CATALOG NUMBER	MTG HT	ARM LENGTH	DISTRIBUTION	FINISH	VOLTAGE	LUMENS	WATTS	CCT	QTY
CREE LIGHTING	GWYM-A-17L-30K7-3M-UL-BK	35'	6'	TYPE III	FLAT BLACK	120/240	15900	104	3000K	58
CREE LIGHTING	GWYM-A-17L-30K7-3M-UL-BK	30'	6'	TYPE III	FLAT BLACK	120/240	15900	104	3000K	3
CREE LIGHTING	GWYM-A-17L-30K7-3M-UL-BK	25'	6'	TYPE III	FLAT BLACK	120/240	15900	104	3000K	3

SEE STANDARD DRAWINGS T-133 AND T-134 FOR ADDITIONAL INFORMATION.

HNTB

PROJECT NAME: SPRINGFIELD

PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574lighting_details.dgn

PROJECT LEADER: J. OLUND

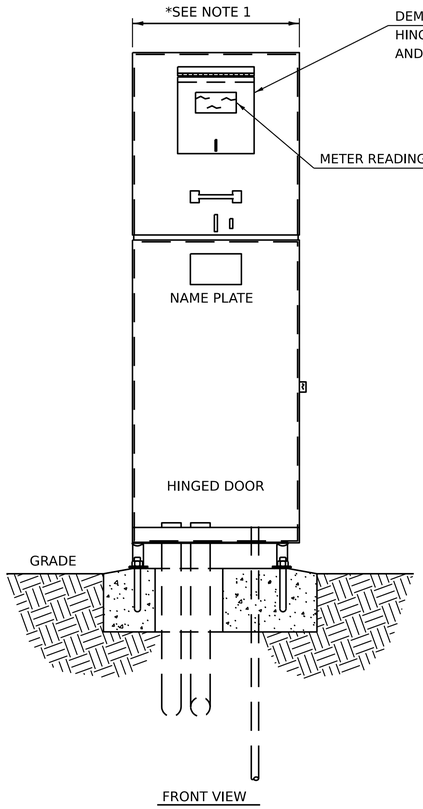
DESIGNED BY: W. LAVALLEE

LIGHTING TABLES

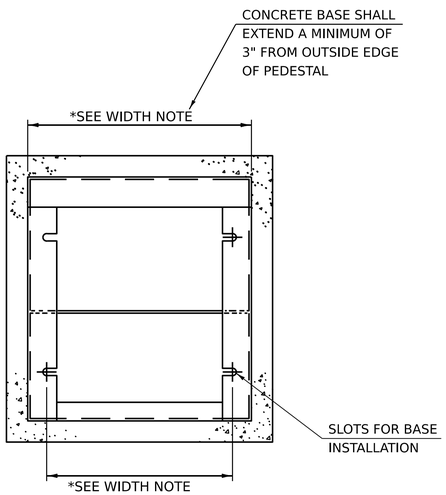
PLOT DATE: 12-JUN-2026

DRAWN BY: W. LAVALLEE

CHECKED BY: T. LEGER



FRONT VIEW

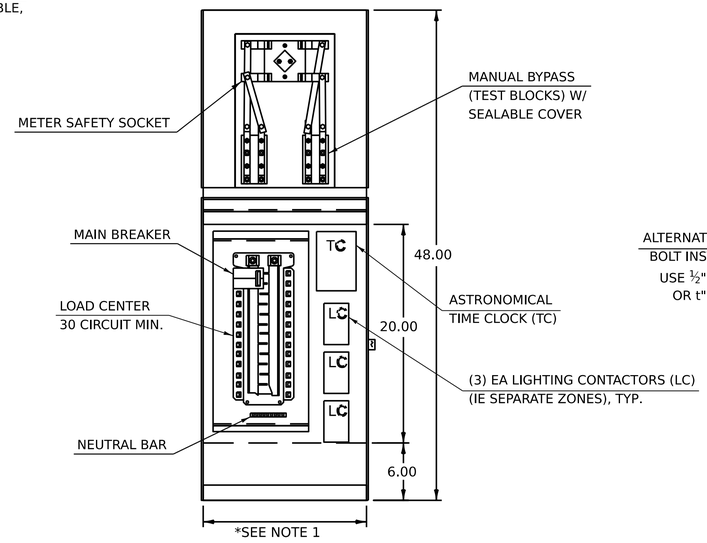


BOTTOM VIEW

MOUNTING SLOT DETAIL

NOTE:

1. WIDTH SHALL ACCOMODATE LOAD CENTER, TIME CLOCK, AND LIGHTING CONTACTORS.

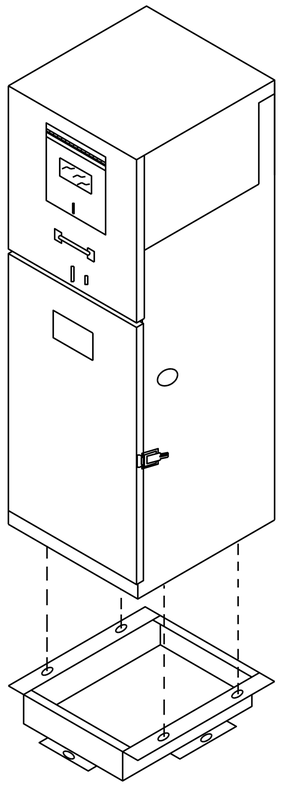


FRONT VIEW

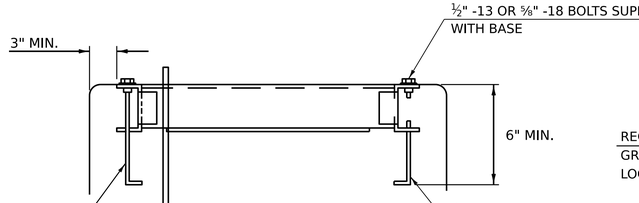
LESS DOOR, DEADFRONT, COVER, AND BASE

RECOMMENDED MOUNTING:

BASE ENCLOSED IN CONCRETE(BASE NOT SHOWN IN THIS VIEW FOR CLARITY)

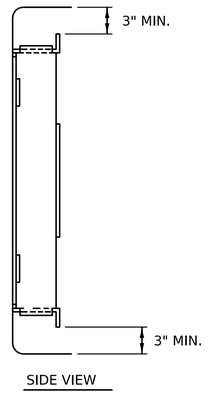


PEDESTAL ISOMETRIC VIEW

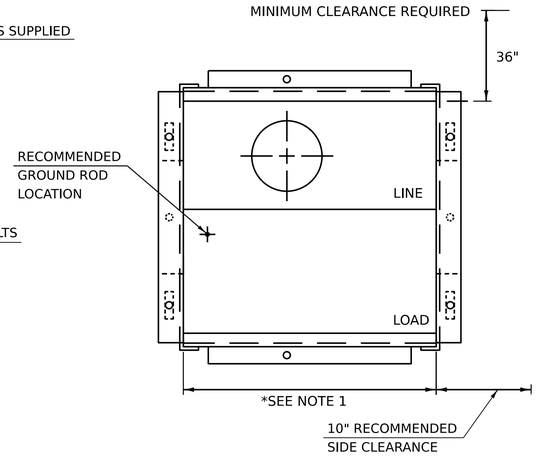


FRONT VIEW

PEDESTAL BASE DETAIL

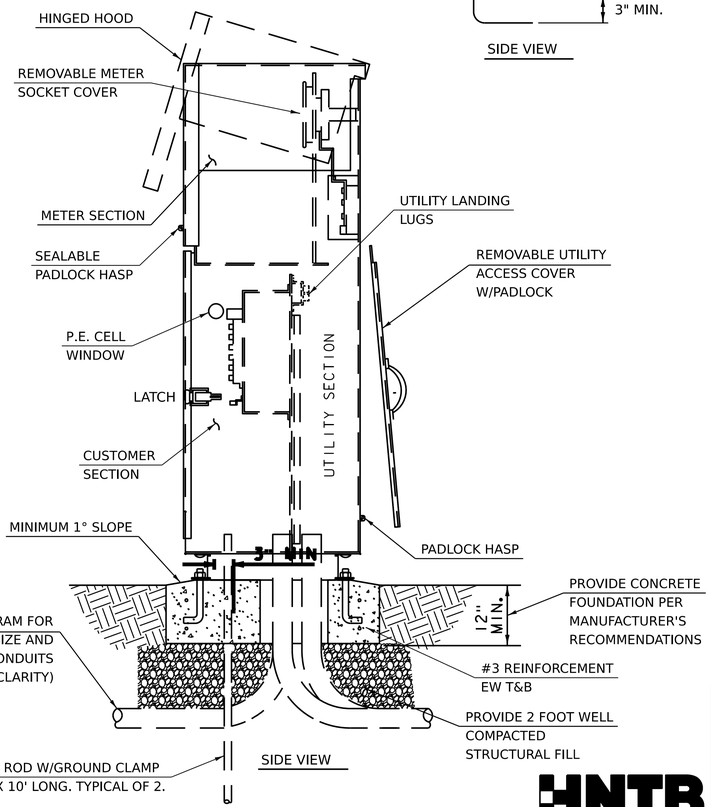


SIDE VIEW

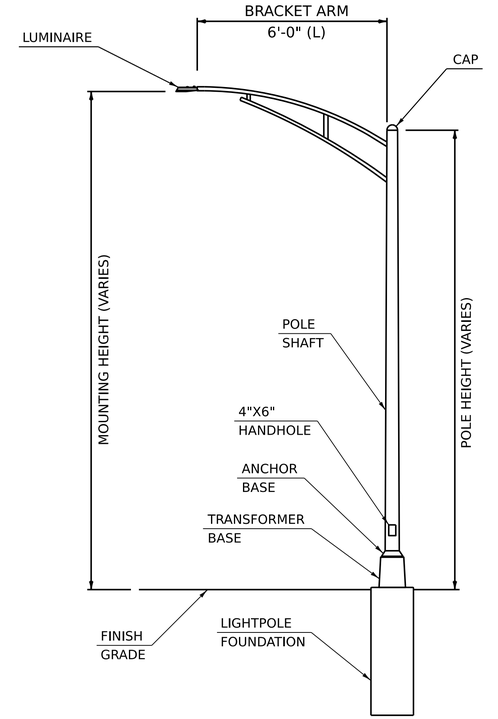


PLAN VIEW

SPECIAL PROVISION (METER PEDESTAL) DETAIL



SIDE VIEW



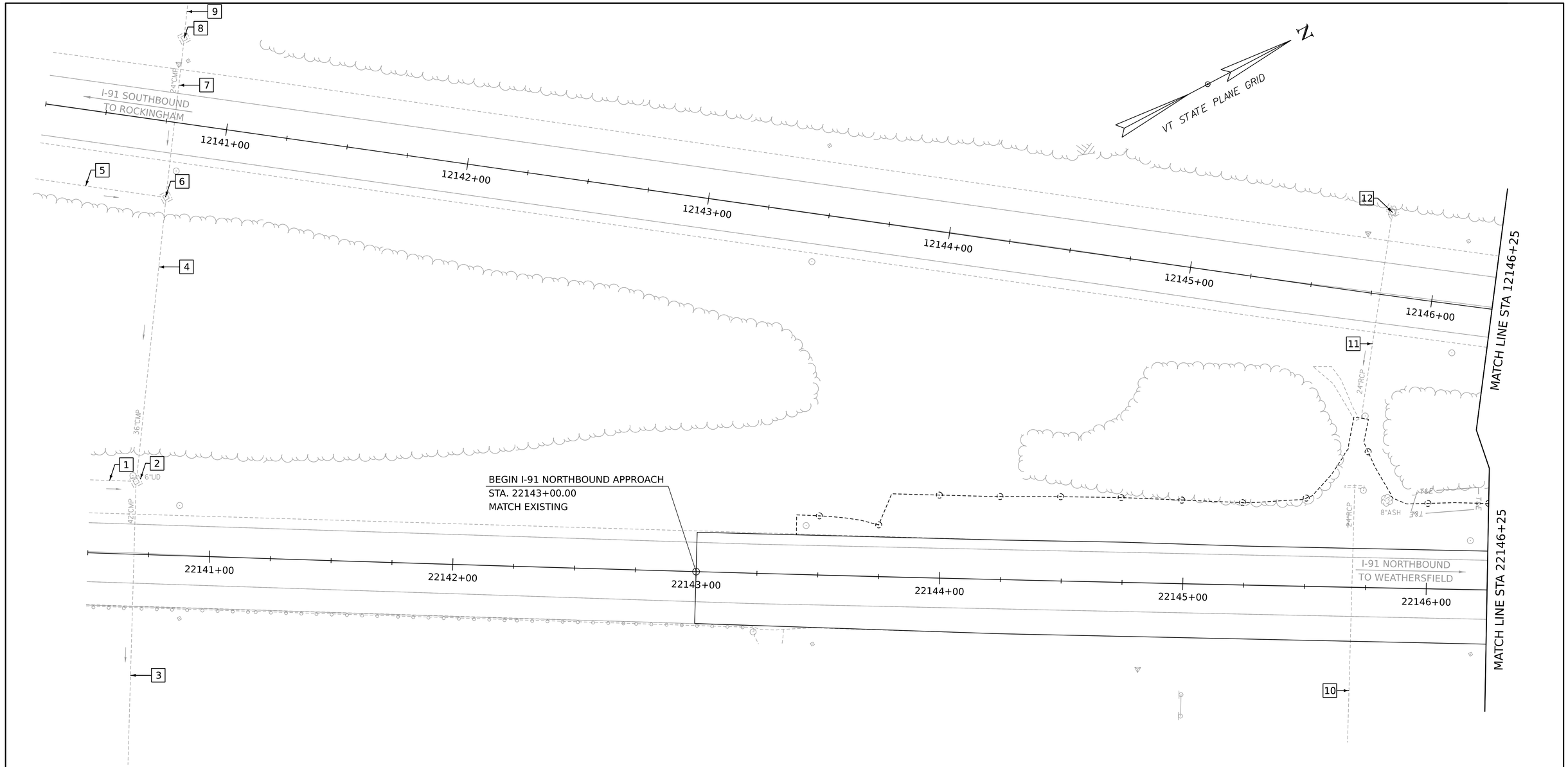
STANDARD LIGHTING ASSEMBLY

NOT TO SCALE

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574lighting_details.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	W. LAVALLEE
DESIGNED BY:	W. LAVALLEE	CHECKED BY:	T. LEGER
LIGHTING DETAILS		SHEET	358 OF 922



1 STA 22138+24 LT - STA 22140+68 LT
RETAIN EXIST 18" RCP

2 STA 22140+69 LT
RETAIN EXIST CB

3 STA 22140+69 LT - STA 22140+69 RT
RETAIN EXIST 42" CMP

4 STA 22140+69 LT - STA 12140+79 RT
RETAIN EXIST 36" CMP

5 STA 12137+81 RT - STA 12140+79 RT
RETAIN EXIST 18" RCP

6 STA 12140+79 RT
RETAIN EXIST CB

7 STA 12140+78 LT - STA 12140+79 RT
RETAIN EXIST 24" CMP

8 STA 12140+77 LT
RETAIN EXIST CB

9 STA 12140+77 LT - STA 12140+77 LT
RETAIN EXIST 24" CMP

10 STA 22145+69 RT - STA 22145+70 LT
RETAIN EXIST 24" RCP

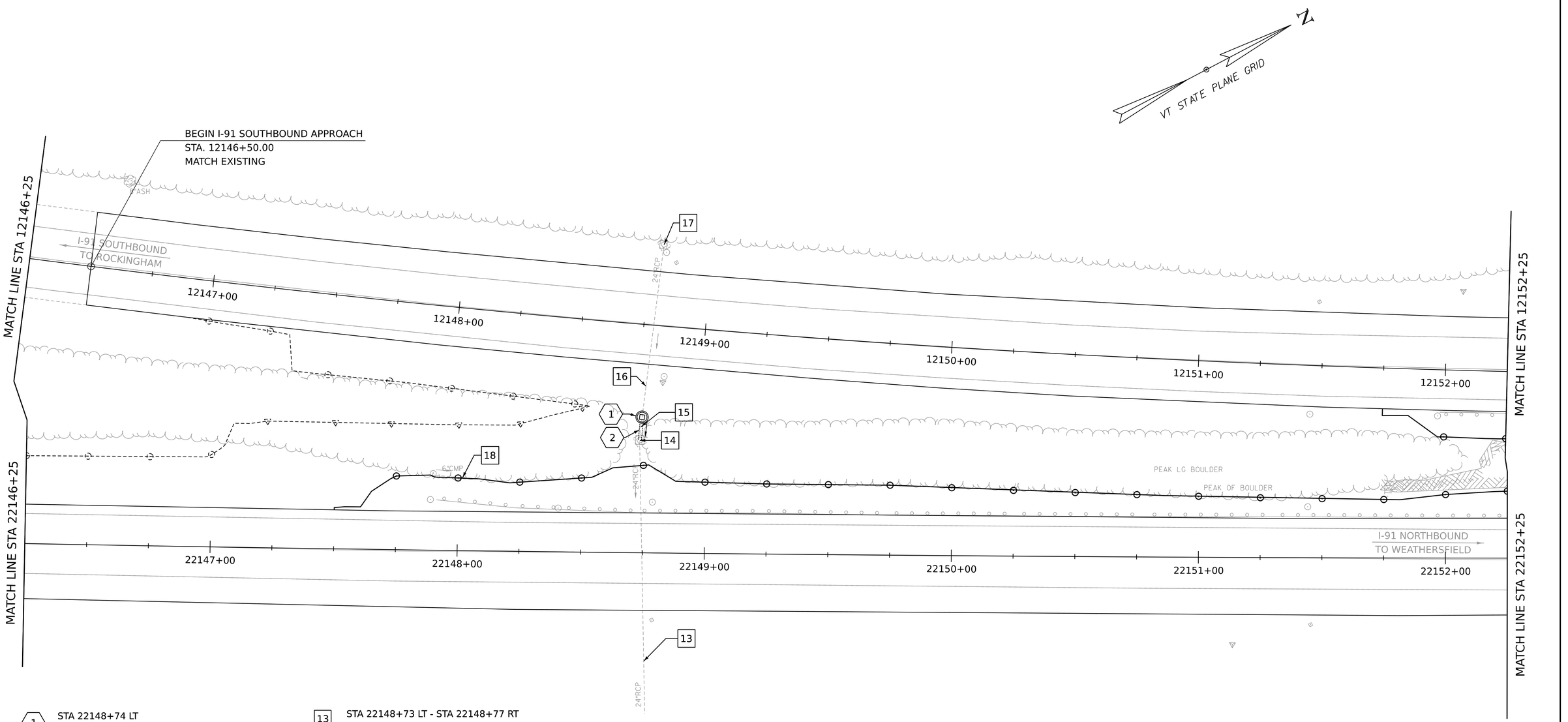
11 STA 12145+78 RT - STA 12145+79 LT
RETAIN EXIST 24" RCP

12 STA 12145+79 LT
RETAIN EXIST DI

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 1	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	359 OF 922



1 STA 22148+74 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE A
CONNECT TO EXIST 24" RCP (16)
RIM ELEV = 448.83'
SUMP ELEV = 442.02'

2 STA 22148+73 LT - STA 22148+74 LT
NEW 6' x 18" RCP CLASS III, CONNECT
OULET TO EXISTING CB
INV ELEV = 443.02'
OUT ELEV = 442.99'

13 STA 22148+73 LT - STA 22148+77 RT
RETAIN EXIST 24" RCP

14 STA 22148+73 LT
RETAIN EXIST CB

15 STA 22148+73 LT - STA 22148+74 LT
REMOVE EXIST 6'X 24" RCP

16 STA 12148+78 RT - STA 12148+80 LT
RETAIN EXIST 24" RCP

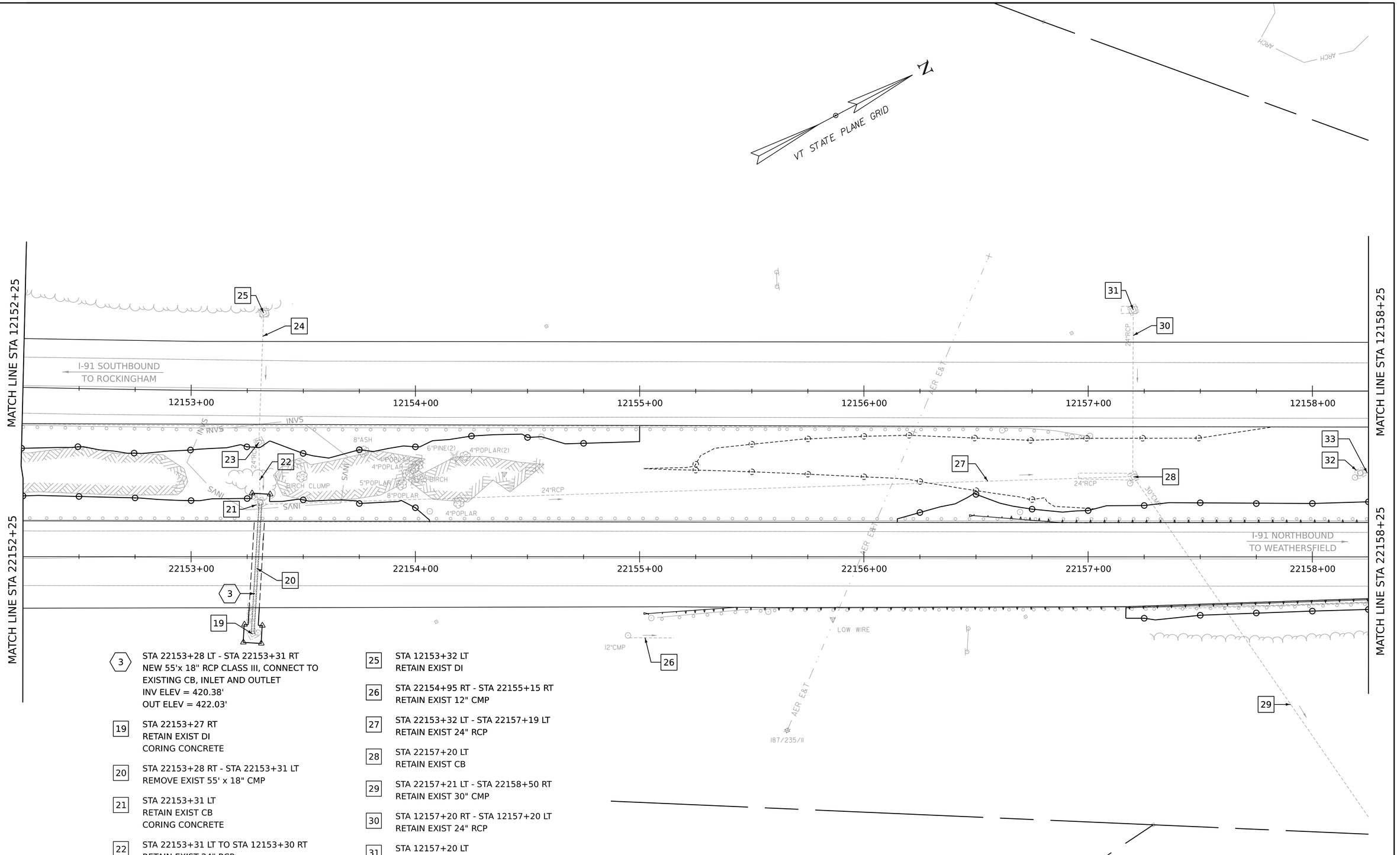
17 STA 12148+80 LT
RETAIN EXIST DI

18 STA 22147+89 LT - STA 22148+09 LT
RETAIN EXIST 6" CMP

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 2		SHEET	360 OF 922



3 STA 22153+28 LT - STA 22153+31 RT
NEW 55'x 18" RCP CLASS III, CONNECT TO EXISTING CB, INLET AND OUTLET
INV ELEV = 420.38'
OUT ELEV = 422.03'

19 STA 22153+27 RT
RETAIN EXIST DI
CORING CONCRETE

20 STA 22153+28 RT - STA 22153+31 LT
REMOVE EXIST 55' x 18" CMP

21 STA 22153+31 LT
RETAIN EXIST CB
CORING CONCRETE

22 STA 22153+31 LT TO STA 12153+30 RT
RETAIN EXIST 24" RCP

23 STA 12153+31 RT
CHANGE ELEV OF DI
RIM ELEV = 427.69'

24 STA 12153+30 RT TO STA 12153+32 LT
RETAIN EXIST 24" RCP

25 STA 12153+32 LT
RETAIN EXIST DI

26 STA 22154+95 RT - STA 22155+15 RT
RETAIN EXIST 12" CMP

27 STA 22153+32 LT - STA 22157+19 LT
RETAIN EXIST 24" RCP

28 STA 22157+20 LT
RETAIN EXIST CB

29 STA 22157+21 LT - STA 22158+50 RT
RETAIN EXIST 30" CMP

30 STA 12157+20 RT - STA 12157+20 LT
RETAIN EXIST 24" RCP

31 STA 12157+20 LT
RETAIN EXIST DI

32 STA 22158+21 LT
RETAIN EXIST DI

33 SEE DRAINAGE SHEET 4 OF 26

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 3		SHEET	361 OF 922

29 SEE DRAINAGE SHEET 3 OF 26

33 STA 22158+22 LT TO STA 22159+43 LT
RETAIN EXIST 18" RCP

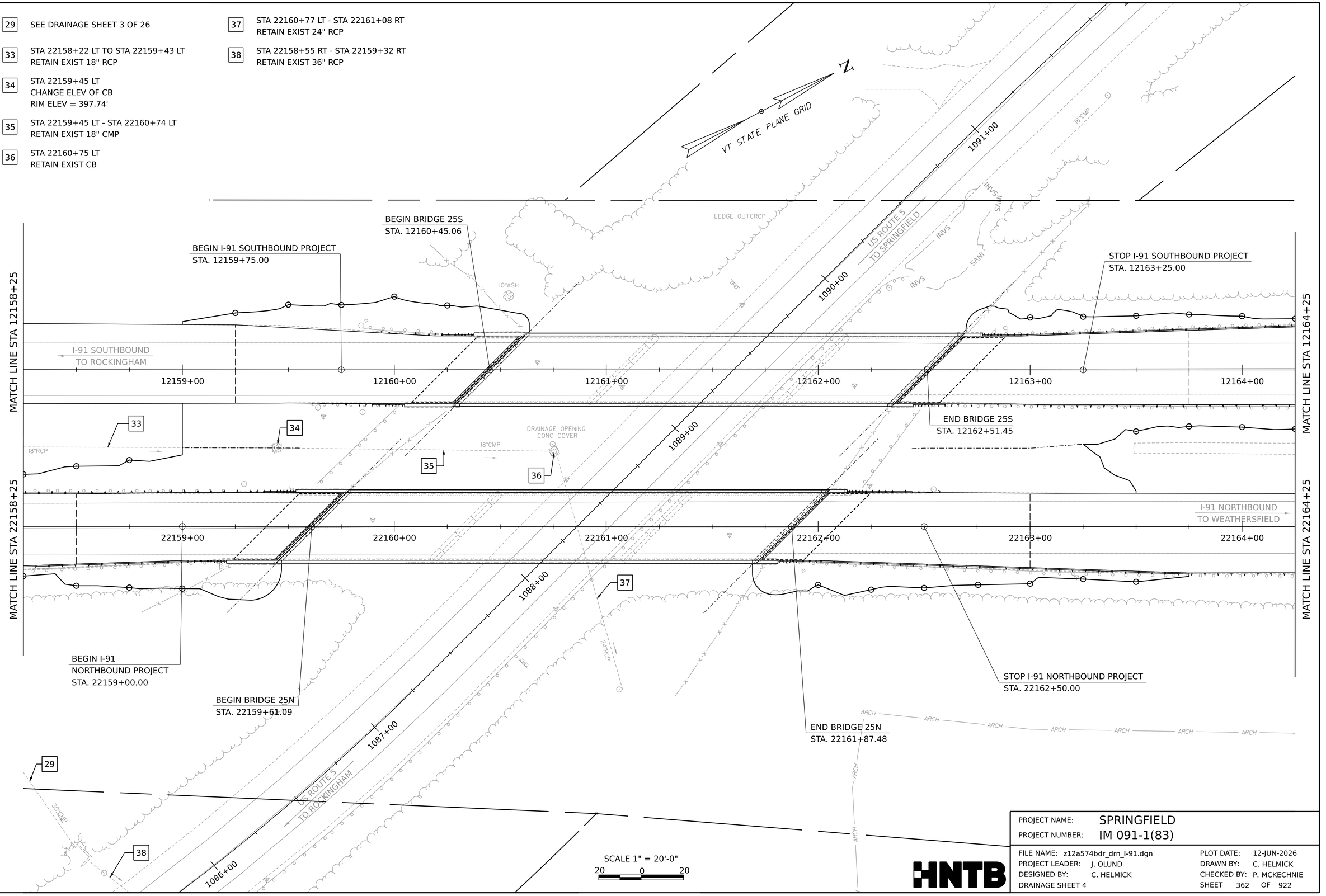
34 STA 22159+45 LT
CHANGE ELEV OF CB
RIM ELEV = 397.74'

35 STA 22159+45 LT - STA 22160+74 LT
RETAIN EXIST 18" CMP

36 STA 22160+75 LT
RETAIN EXIST CB

37 STA 22160+77 LT - STA 22161+08 RT
RETAIN EXIST 24" RCP

38 STA 22158+55 RT - STA 22159+32 RT
RETAIN EXIST 36" RCP



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 4	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	362 OF 922

39 STA 22165+36 RT - STA 22165+38 RT
RETAIN EXIST 18" CMP

40 STA 22165+36 RT
CHANGE ELEV OF CB
RIM ELEV = 367.85'
CORING CONCRETE

41 STA 22165+36 RT - STA 22165+37 LT
REMOVE EXIST 54'x 18" CMP

42 STA 22165+37 LT
RETAIN EXIST DI
CORING CONCRETE

43 STA 22169+37 RT - STA 22169+38 RT
RETAIN EXIST 18" CMP

44 STA 22169+37 LT - STA 22169+38 RT
REMOVE EXIST 54'x 18" CMP

45 STA 22169+37 LT
RETAIN EXIST CONCRETE CB
CORING CONCRETE

46 STA 12169+37 LT - STA 22169+37 LT
REMOVE EXIST 54'x 18" CMP

47 STA 12169+37 LT
CHANGE ELEV OF DI
RIM ELEV = 348.24'
CORING CONCRETE

48 STA 12166+39 LT - STA 22167+94 RT
RETAIN EXIST 24" CMP

119 STA 22169+38 RT
CHANGE ELEV OF CB
RIM ELEV = 347.56'
CORING CONCRETE

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 22164+25

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

MATCH LINE STA 12170+25

MATCH LINE STA 22170+25

24"CMP

18"CMP

ARCH

4 STA 22165+36 RT - STA 22165+37 LT
NEW 54'x 18" RCP CLASS III, CONNECT TO
EXISTING CB, INLET AND OUTLET
INV ELEV = 360.90'
OUT ELEV = 359.98'

5 STA 22169+37 LT - STA 22169+38 RT
NEW 54'x 18" RCP CLASS III, CONNECT TO
EXISTING CB, INLET AND OUTLET
INV ELEV = 340.67'
OUT ELEV = 338.97'

6 STA 12169+37 RT - STA 12169+37 LT
NEW 54'x 18" RCP CLASS III, CONNECT TO
EXISTING CB, INLET AND OUTLET
INV ELEV = 341.83'
OUT ELEV = 340.87'

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 5	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	363 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

7 STA 22173+37 RT - STA 22173+37 LT
NEW 54'x 18" RCP CLASS III, CONNECT TO
EXISTING CB AT INLET AND OUTLET
INV ELEV = 323.05'
OUT ELEV = 322.45'

8 STA 22175+74 LT - STA 22176+87 LT
NEW 110'x 18" RCP CLASS III, CONNECT TO
EXISTING DI AT INLET AND CB AT OUTLET
INV ELEV = 319.14'
OUT ELEV = 317.86'

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

I-91 SOUTHBOUND
TO ROCKINGHAM

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

I-91 NORTHBOUND
TO WEATHERSFIELD

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

49 STA 12171+86 LT - STA 12171+88 LT
RETAIN EXIST 12" CMP

50 STA 12171+86 LT
CHANGE ELEV OF DI
RIM ELEV = 336.04'

51 STA 22173+37 RT - STA 22173+37 RT
RETAIN EXIST 18" CMP

52 STA 22173+37 RT
CHANGE ELEV OF CB
RIM ELEV = 329.62'

53 STA 22173+37 RT - STA 22173+37 LT
REMOVE EXIST 54'x 18" CMP

54 STA 22173+37 LT
CHANGE ELEV OF CB
RIM ELEV = 326.60'

55 STA 22175+74 LT
RETAIN EXIST DI

56 STA 22175+75 LT - STA 22176+86 LT
REMOVE EXIST 111'x 18" CMP

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 6		SHEET	364 OF 922

RESUME I-91 SOUTHBOUND PROJECT
STA. 12176+75.00

BEGIN BRIDGE 26S
STA. 12177+29.57

END BRIDGE 26S
STA. 12180+42.07

STOP I-91 SOUTHBOUND PROJECT
STA. 12181+00.00

MATCH LINE STA 12176+40

MATCH LINE STA 12182+50

I-91 SOUTHBOUND
TO ROCKINGHAM

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

800+00 801+00 802+00 803+00 804+00

BLACK RIVER

VT STATE PLANE GRID

STOP I-91 NORTHBOUND PROJECT
STA. 22181+00.00

I-91 NORTHBOUND
TO WEATHERSFIELD

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

MATCH LINE STA 22176+40

MATCH LINE STA 22182+50

BEGIN BRIDGE 26N
STA. 22177+29.50

END BRIDGE 26N
STA. 22180+42.00

RESUME I-91 NORTHBOUND PROJECT
STA. 22176+75.00

SCALE 1" = 20'-0"
20 0 20

56 8 SEE DRAINAGE SHEET 6 OF 26

9 STA 22176+87 LT - STA 22176+88 RT
NEW 76' x 18" RCP CLASS III
INV ELEV = 317.18'
OUT ELEV = 314.02'
CONSTRUCT 18' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

57 STA 22176+87 LT
CHANGE ELEV OF CB
RIM ELEV = 322.26'
CORING CONCRETE

58 STA 22176+87 LT - STA 22176+88 RT
REMOVE EXIST 75'x 18" CMP

59 STA 22181+50 RT - STA 22181+83 LT
RETAIN EXIST 18" RCP

60 STA 22181+85 LT
CHANGE ELEV OF DI
RIM ELEV = 319.06'

61 STA 22181+50 RT - STA 22181+85 LT
RETAIN EXIST 18" RCP

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_drn_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
DRAINAGE SHEET 7

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: P. MCKECHNIE
SHEET 365 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

I-91 NORTHBOUND
TO WEATHERSFIELD

62 34 10 63

10 STA 22184+90 RT - STA 22184+90 LT
NEW 84'x 18" RCP CLASS III
INV ELEV = 318.61'
OUT ELEV = 315.69'
CONSTRUCT 52' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

34 STA 22184+84 RT - STA 22192+56 RT
CONSTRUCT 770' LONG x 12' WIDE x 1' DEEP
STONE FILL, TYPE I

62 STA 22184+90 LT
CHANGE ELEV OF CB
RIM ELEV = 322.78
CORING CONCRETE

63 STA 22184+90 RT - STA 22184+90 LT
REMOVE EXIST 82'x 18" CMP

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 8	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	366 OF 922

EXISTING R.O.W.

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

STA 400+85

STA 12194+50

STA 22194+50

STA 204+25

RESUME I-91 SOUTHBOUND PROJECT
STA. 12192+25.00

STOP I-91 SOUTHBOUND PROJECT
STA. 12194+50.00

RESUME I-91 NORTHBOUND PROJECT
STA. 22192+75.00

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

VT STATE PLANE GRID

64 STA 12188+89 RT
CHANGE ELEV OF DI
RIM ELEV = 336.45'

65 STA 12188+89 RT - STA 12188+89 LT
REMOVE EXIST 55' x 12" CMP

66 STA 12188+89 LT
REMOVE EXIST CB

67 STA 12188+89 LT - STA 12188+89 LT
REMOVE EXIST 46' x 18" CMP

68 STA 201+78 RT - STA 202+54 RT
REMOVE EXIST 79' x 18" CMP

69 STA 203+71 RT - STA 204+04 RT
REMOVE EXIST 37' x 18" RCP

72 STA 12194+02 LT - STA 12194+37 RT
REMOVE EXIST 71' x 18" CMP

70 STA 204+05 RT
REMOVE EXIST DI

71 STA 12194+38 RT
REHAB CLASS I EXIST CB
RIM ELEV = 354.63'
PLUG EXISTING 18" INLET
CORING CONCRETE

73 STA 12194+02 LT
REMOVE EXIST DI

74 STA 12194+38 RT - STA 12194+39 LT
REMOVE EXIST 107' x 18" CMP

75 STA 12188+88 LT
RETAIN EXIST 36" CMP

11 STA 12188+89 RT - STA 12188+89 LT
NEW 65'x 12" RCP CLASS III,
CONNECT INLET TO EXIST CB
INV ELEV = 331.86'
OUT ELEV = 330.59'

12 STA 12188+89 LT
NEW 4' DIA PRCCB CI GRATE, TYPE A
RIM ELEV = 338.92'
SUMP ELEV = 329.09'

13 STA 12188+89 LT - STA 12188+89 LT
NEW 20'x 18" RCP CLASS III
INV ELEV = 330.09'
OUT ELEV = 329.97'
CONSTRUCT 74' LONG x 6' WIDE
STONE FILL, TYPE I AT PIPE OUTLET

14 STA 12194+38 RT - STA 400+75 LT
NEW 74'x 18" RCP CLASS III
CONNECT INLET TO EXIST CB
INV ELEV = 348.34'
OUT ELEV = 346.19'

15 STA 400+75 LT
NEW 4' DIA PRCCB WITH CI
GRATE, TYPE A
RIM ELEV = 354.18'
SUMP ELEV = 344.94'

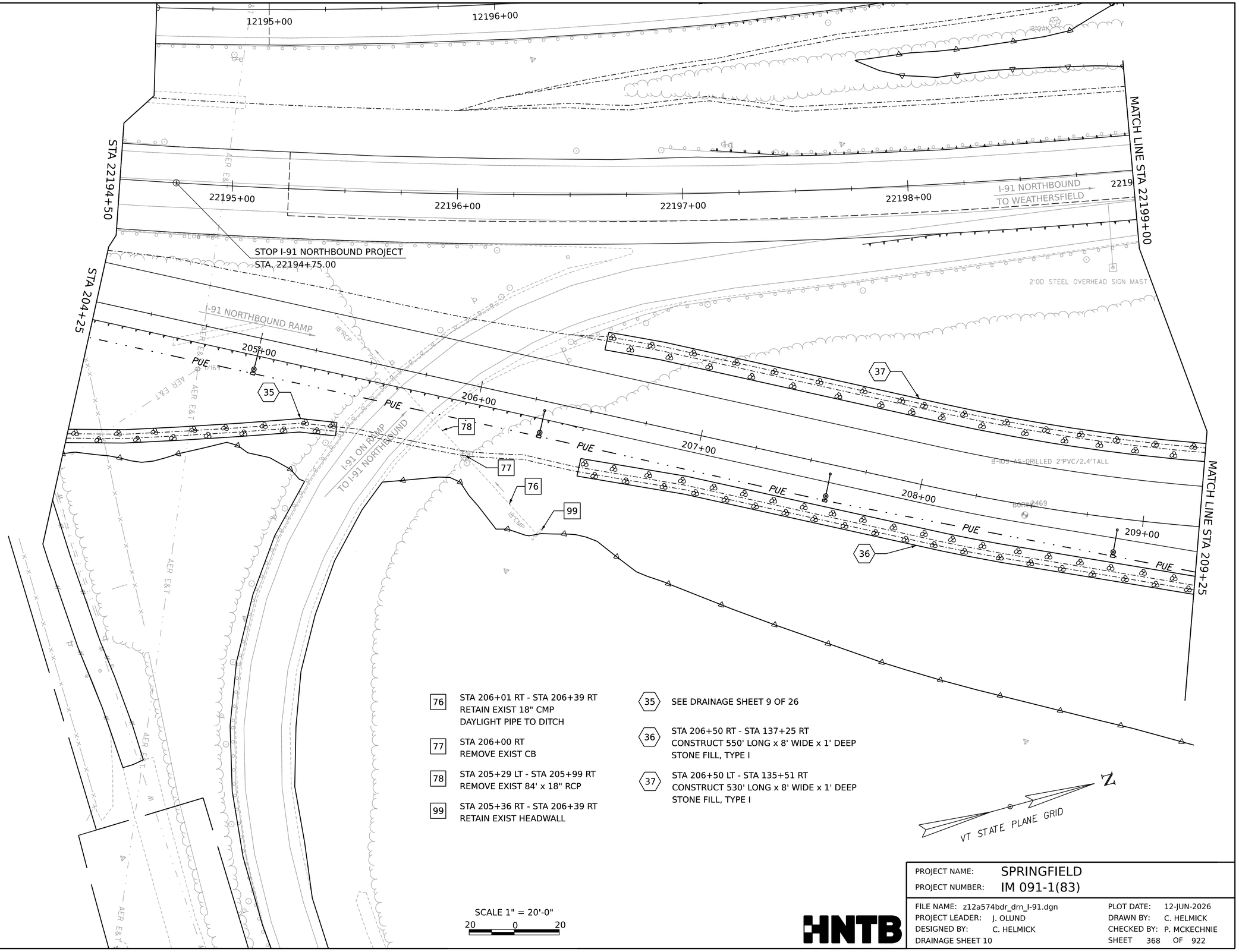
16 STA 400+75 LT - STA 400+75 LT
NEW 20'x 18" RCP CLASS III
INV ELEV = 345.94'
OUT ELEV = 345.34'
CONSTRUCT 32' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

34 SEE DRAINAGE SHEET 8 OF 26

35 STA 201+87 RT - STA 205+41 RT
CONSTRUCT 370' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_drn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE SHEET 9	SHEET 367 OF 922



76 STA 206+01 RT - STA 206+39 RT
RETAIN EXIST 18" CMP
DAYLIGHT PIPE TO DITCH

77 STA 206+00 RT
REMOVE EXIST CB

78 STA 205+29 LT - STA 205+99 RT
REMOVE EXIST 84' x 18" RCP

99 STA 205+36 RT - STA 206+39 RT
RETAIN EXIST HEADWALL

35 SEE DRAINAGE SHEET 9 OF 26

36 STA 206+50 RT - STA 137+25 RT
CONSTRUCT 550' LONG x 8' WIDE x 1' DEEP
STONE FILL, TYPE I

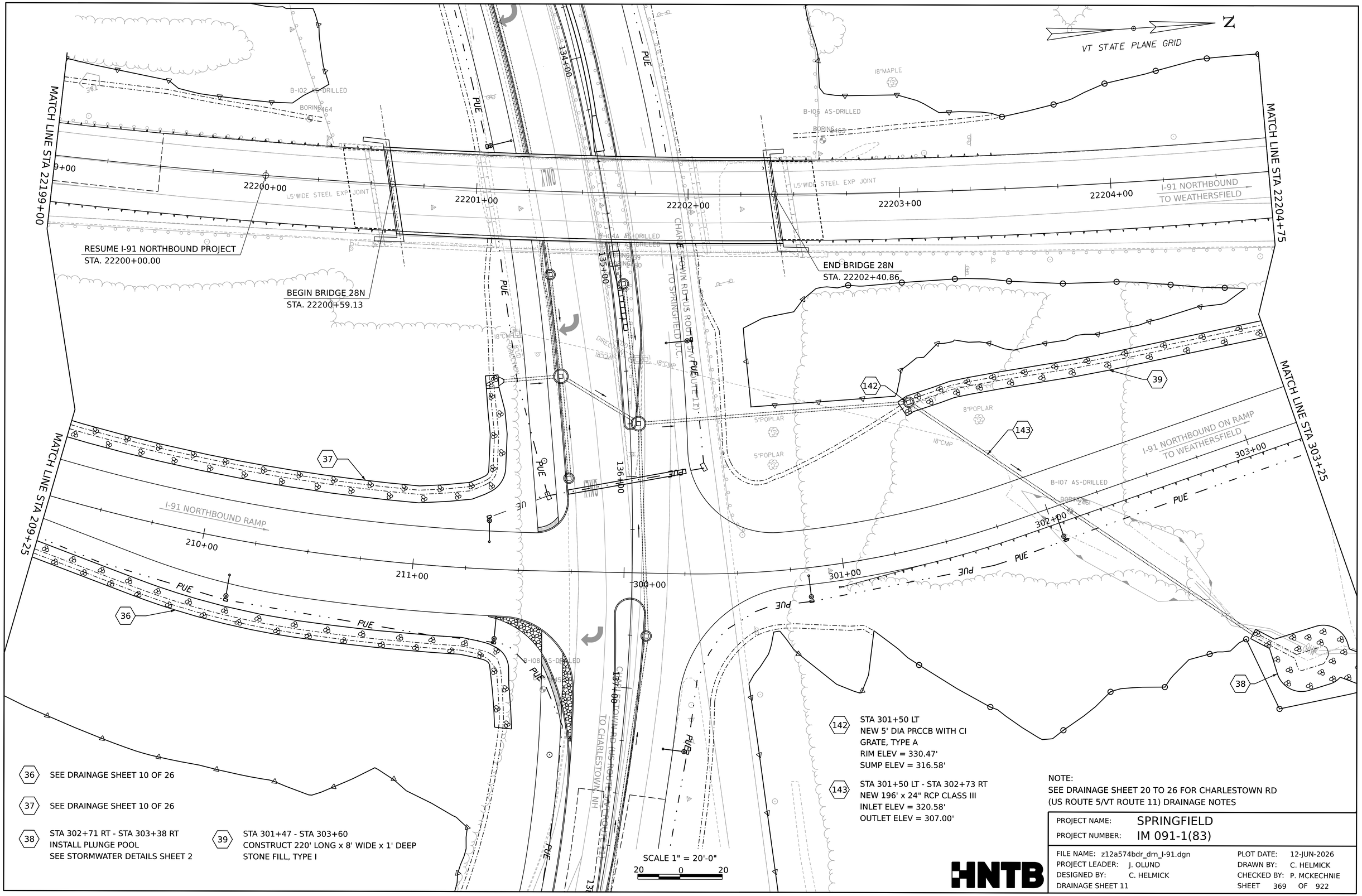
37 STA 206+50 LT - STA 135+51 RT
CONSTRUCT 530' LONG x 8' WIDE x 1' DEEP
STONE FILL, TYPE I

N
VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_drn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE SHEET 10	SHEET 368 OF 922



36 SEE DRAINAGE SHEET 10 OF 26

37 SEE DRAINAGE SHEET 10 OF 26

38 STA 302+71 RT - STA 303+38 RT
INSTALL PLUNGE POOL
SEE STORMWATER DETAILS SHEET 2

39 STA 301+47 - STA 303+60
CONSTRUCT 220' LONG x 8' WIDE x 1' DEEP
STONE FILL, TYPE I

142 STA 301+50 LT
NEW 5' DIA PRCCB WITH CI
GRATE, TYPE A
RIM ELEV = 330.47'
SUMP ELEV = 316.58'

143 STA 301+50 LT - STA 302+73 RT
NEW 196' x 24" RCP CLASS III
INLET ELEV = 320.58'
OUTLET ELEV = 307.00'

NOTE:
SEE DRAINAGE SHEET 20 TO 26 FOR CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) DRAINAGE NOTES

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 11		SHEET	369 OF 922

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

VT STATE PLANE GRID N

END I-91 NORTHBOUND PROJECT
STA. 22208+50.00

22205+00
22206+00
22207+00
22208+00
22209+00
22210+00

I-91 NORTHBOUND
TO WEATHERSFIELD

I-91 NORTHBOUND ON RAMP
TO WEATHERSFIELD

I-91 OFF RAMP
TO CHARLESTOWN RD
(US ROUTE 5 ALT ROUTE 11)

304+00
305+00
306+00
307+00
308+00
309+00
310+00
311+00
312+00
313+00
314+00
909+00

PUE

SPENCER BROOK

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 909+25.00

17 18 19 38 39 79 80 81 82 83 84 118

79 STA 303+31 RT - STA 22204+88 LT
ABANDON EXIST 264' x 24" CMP
AND FILL WITH FLOWABLE FILL

80 STA 305+39 RT - STA 307+38 RT
REMOVE EXIST BRIDGE 28-1C
PAID UNDER ITEM 529.2000 PARTIAL
REMOVAL OF STRUCTURE (BRIDGE 28-1C)

81 STA 305+21 RT - STA 306+21 RT
REMOVE EXIST 104' x 18" CMP

82 STA 306+22 RT
REMOVE EXIST DI

83 STA 307+00 RT
REMOVE EXIST DI

84 STA 307+00 RT - STA 307+66 RT
REMOVE EXIST 97' x 18" CMP

118 STA 306+96 RT TO 306+99 RT
ABANDON 6" UNDERDRAIN

38 SEE DRAINAGE SHEET 11 OF 26

39 SEE DRAINAGE SHEET 11 OF 26

17 STA 22205+00 RT - STA 22205+00 LT
NEW 136'x 18" RCP CLASS III
INV ELEV = 342.15'
OUT ELEV = 341.13'
CONSTRUCT 12' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE INLET
CONSTRUCT 11.5' LONG x 4.5' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

18 STA 307+00 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE A
RIM ELEV = 345.82'
SUMP ELEV = 335.00'

19 STA 307+00 RT - STA 307+00 LT
NEW 50'x 18" RCP CLASS III
INV ELEV = 339.00'
OUT ELEV = 336.50'
CONSTRUCT 49' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_I-91.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 12	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	370 OF 922

HNTB

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

VT STATE PLANE GRID
N

SPENCER BROOK

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

916+00
917+00
918+00
919+00
920+00
310+00
311+00
22211+00
22212+00
22213+00
22214+00
22215+00
22216+00

PUE

I-91 NORTHBOUND
TO WEATHERSFIELD

9"CHERRY

INC 0.5'AG PLUMB/STABLE/V

20 STA 22210+89 RT - STA 22211+53 LT
EXTEND BRIDGE 28-1N INLET 34'
CONSTRUCT WINGWALLS
EXTEND BRIDGE 28-1N OUTLET 18'
CONSTRUCT WINGWALLS

21 STA 22213+89 LT - STA 22213+89 LT
NEW 12'x 12" RCP CLASS III
INV ELEV = 328.89'
OUT ELEV = 328.41'
CONSTRUCT 29' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

22 STA 22215+00 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE A
RIM ELEV = 332.86'
SUMP ELEV = 325.42'

23 STA 22215+02 LT - STA 22215+48 LT
NEW 46'x 12" RCP CLASS III
INV ELEV = 326.42'
OUT ELEV = 325.96'

24 STA 22215+50 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE A
RIM ELEV = 332.84'
SUMP ELEV = 324.71'

25 STA 22215+52 LT - STA 22215+98 LT
NEW 46'x 12" RCP CLASS III
INV ELEV = 325.71'
OUT ELEV = 325.25'

26 STA 22216+00 LT - STA 22216+00 LT
NEW 20'x 18" RCP CLASS III
INV ELEV = 324.75'
OUT ELEV = 324.27'
CONSTRUCT 30' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

27 STA 22216+00 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE A
RIM ELEV = 332.91'
SUMP ELEV = 323.75'

28 STA 22216+00 RT - STA 22216+00 LT
NEW 68'x 18" RCP CLASS III
INV ELEV = 326.33'
OUT ELEV = 325.00'
CONSTRUCT 13' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE INLET

40 STA 22210+89 - 22210+89 LT
NEW 20' X 12" RCP CLASS III
INV ELEV = 333.48'
OUT ELEV = 332.65'
CONSTRUCT 29' LONG X 6' WIDE X 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

85 STA 22210+89 LT - 22210+91 LT
REMOVE EXIST 58' x 12" CMP

86 STA 22210+90 LT
CHANGE ELEV OF DI
RIM ELEV = 337.67'
CORING CONCRETE

87 STA 22213+89 LT
CHANGE ELEV OF DI
RIM ELEV = 333.37'
CORING CONCRETE

88 STA 22213+89 LT - STA 22213+89 LT
REMOVE EXIST 32' x 12" CMP

89 STA 22215+93 LT - 22215+93 LT
RETAIN EXIST 6" CMP

90 STA 22215+88 LT - STA 22215+87 LT
REMOVE EXIST 39' x 12" CMP

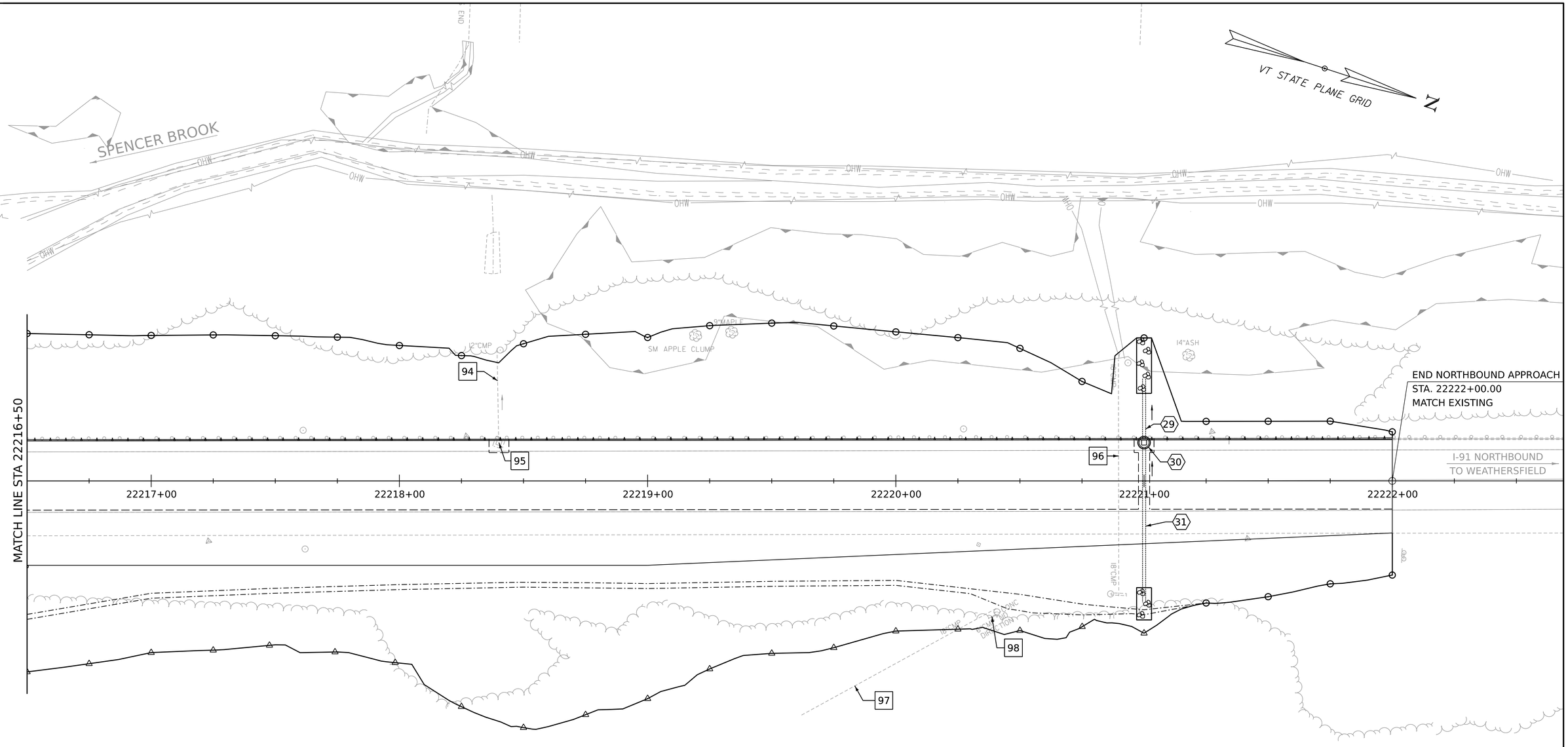
91 STA 22215+88 LT
REMOVE EXIST DI

92 STA 22215+90 LT - STA 22215+90 RT
ABANDON EXIST 96' x 18" CMP
AND FILL WITH FLOWABLE FILL
REMOVE EXIST HEADWALL

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 13		SHEET	371 OF 922



94 STA 22218+40 LT - STA 22218+40 LT
RETAIN EXIST 18" CMP

95 STA 22218+40 LT
CHANGE ELEV OF DI
RIM ELEV = 335.24'

96 STA 22220+90 RT - STA 22220+90 LT
REMOVE EXIST 95' X 18" CMP AND HEADWALL

97 STA 22219+62 RT - STA 22220+40 RT
RETAIN EXIST 18" CMP
DAYLIGHT PIPE TO DITCH

98 STA 22220+37 RT - STA 22220+42 RT
RETAIN EXIST 6" CMP
DAYLIGHT PIPE TO DITCH

29 STA 22221+00 LT - STA 22221+00 LT
NEW 24'x 18" RCP CLASS III
INV ELEV = 332.83'
OUT ELEV = 331.09'
CONSTRUCT 22' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

30 STA 22221+00 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE A
RIM ELEV = 341.02'
SUMP ELEV = 331.33'

31 STA 22221+00 RT - STA 22221+00 LT
NEW 62'x 18" RCP CLASS III
INV ELEV = 334.33'
OUT ELEV = 333.08'
CONSTRUCT 13' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

SCALE 1" = 20'-0"
20 0 20

HNTB

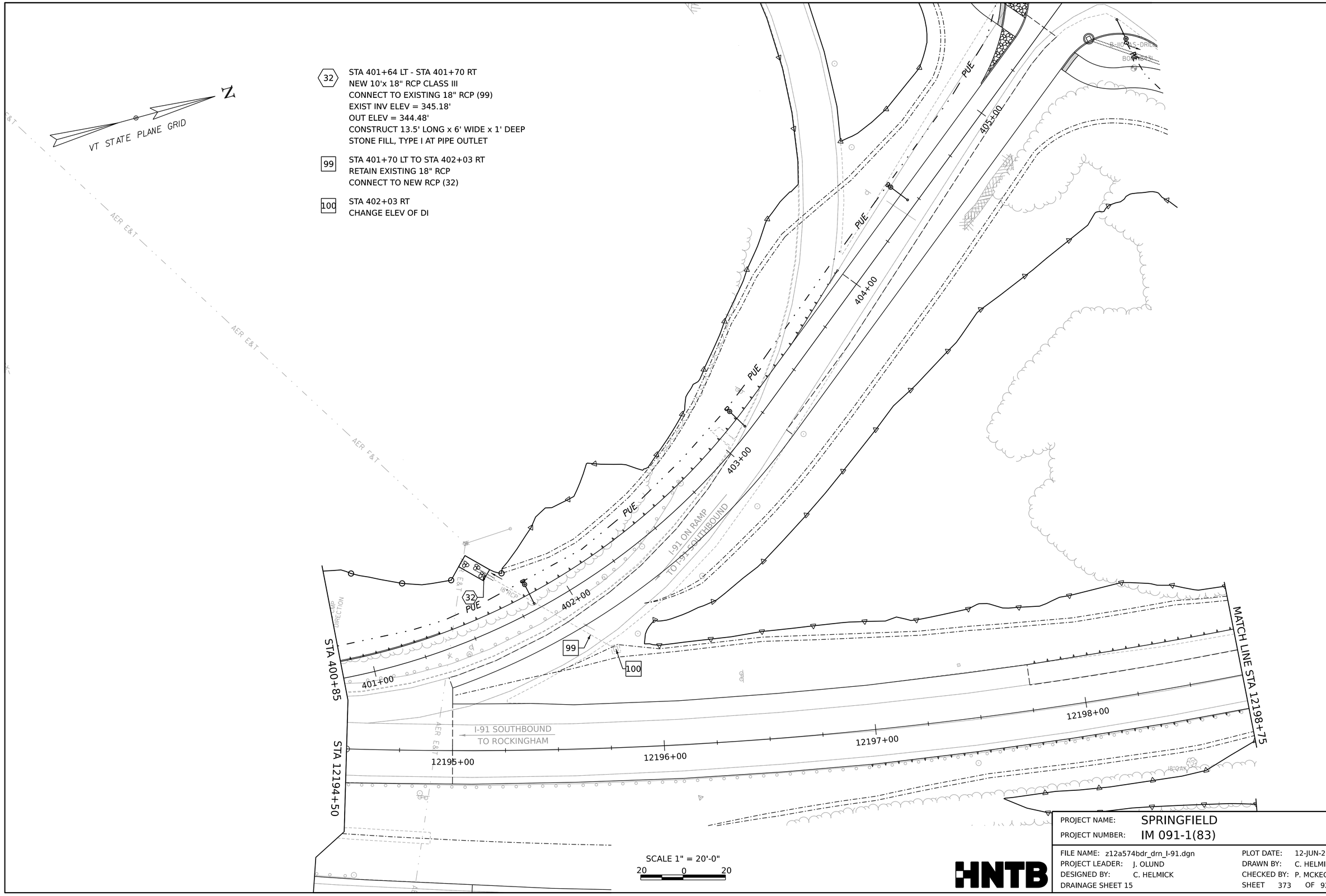
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_drn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE SHEET 14	SHEET 372 OF 922

VT STATE PLANE GRID

32 STA 401+64 LT - STA 401+70 RT
NEW 10'x 18" RCP CLASS III
CONNECT TO EXISTING 18" RCP (99)
EXIST INV ELEV = 345.18'
OUT ELEV = 344.48'
CONSTRUCT 13.5' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

99 STA 401+70 LT TO STA 402+03 RT
RETAIN EXISTING 18" RCP
CONNECT TO NEW RCP (32)

100 STA 402+03 RT
CHANGE ELEV OF DI



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_drn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE SHEET 15	SHEET 373 OF 922

HNTB

PUE
PUE
PUE
PUE
PUE
PUE
PUE
PUE
PUE
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)
I-91 OFF RAMP
130+00
131+00
132+00
133+00
134+00
8"CMP
8"CMP
18"CMP
RESUME I-91
SOUTHBOUND PROJECT
STA. 12199+25.00
BEGIN BRIDGE 28S
STA. 12199+87.62
END BRIDGE 28S
STA. 12201+75.92
MATCH LINE STA 12198+75
MATCH LINE STA 12204+00
B-101 AS-DRILLED
BORING 9465
B-102 AS-DRILLED
BORING 9466
B-103 AS-DRILLED
BORING 9467
I-91 SOUTHBOUND
TO ROCKINGHAM
12199+00
12200+00
12201+00
12202+00
12203+00
1220
1.5"WIDE STEEL EXP JOINT
1.5"WIDE STEEL EXP JOINT
DIRECTION ANGLES AROUND PIERS
24"MAPLE
SCALE 1" = 20'-0"
20 0 20

NOTE:
SEE DRAINAGE SHEET 20 TO 26 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) DRAINAGE NOTES

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 16		SHEET	374 OF 922

17 SEE DRAINAGE SHEET 12 OF 26

33 STA 12204+46 RT - STA 12204+80 LT
NEW 112'x 18" RCP CLASS III
INV ELEV = 353.77'
OUT ELEV = 342.62'
CONSTRUCT 12' LONG x 6' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

79 SEE DRAINAGE SHEET 12 OF 26

101 STA 12204+27 RT
REMOVE EXIST CB

102 STA 12204+27 RT - STA 12204+80 LT
REMOVE EXIST 120' X 12" CMP

103 STA 12204+80 LT
RETAIN EXIST DI
CORING CONCRETE

VT STATE PLANE GRID

N

END I-91 SOUTHBOUND PROJECT
STA. 12204+50.00

MATCH LINE STA 12204+00

MATCH LINE STA 12209+50

I-91 OFF RAMP

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 SOUTHBOUND
TO ROCKINGHAM

12204+00
12205+00
12206+00
12207+00
12208+00
12209+00

PUE

ARCH

INVS

BEVELED

12" CMP

24" CMP

2"PINE

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 17		SHEET	375 OF 922

104 STA 12209+87 RT
CHANGE ELEV OF DI
RIM ELEV = 357.60

105 STA 12209+88 RT - STA 12210+39 RT
RETAIN EXIST 12" CMP

106 STA 12212+39 RT
CHANGE ELEV OF DI
RIM ELEV = 355.12

107 STA 12212+39 RT - STA 12212+39 RT
RETAIN EXIST 12" CMP

108 STA 12214+38 RT - STA 12214+38 LT
RETAIN EXIST 18" CMP

109 STA 12209+88 LT TO STA 12209+87 LT
RETAIN EXIST 18" CMP

110 STA 12214+87 LT
CHANGE ELEV OF DI
RIM ELEV = 352.15

111 STA 12214+88 LT TO STA 12214+88 RT
RETAIN EXIST 18" CMP

112 STA 12214+88 RT
CHANGE ELEV OF DI
RIM ELEV = 352.52

VT STATE PLANE GRID
N

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

PUE

12210+00
12211+00
12212+00
12213+00
12214+00
12215+00

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

SPENCER BROOK

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 18		SHEET	376 OF 922

HNTB

113 STA 12217+18 RT - STA 12217+18 LT
RETAIN EXIST 24" CMP

114 STA 12217+38 RT
RETAIN EXIST DI

115 STA 12217+38 RT - STA 12217+38 RT
RETAIN EXIST 12" CMP

116 STA 12219+89 RT
RETAIN EXIST DI

117 STA 12219+88 RT - STA 12219+89 RT
RETAIN EXIST 12" CMP

VT STATE PLANE GRID

N

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12216+00
12217+00
12218+00
12219+00
12220+00
12221+00

24"RCP
12"CMP
24"CMP THIS END

SPENCER BROOK

OHW

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 19		SHEET	377 OF 922

HNTB

201 STA 114+14 LT - STA 118+12 LT
RETAIN EXIST 24" RCP

202 STA 118+12 LT - STA 118+12 LT
RETAIN EXIST 18" CMP

203 STA 118+12 LT
RETAIN EXIST CB

204 STA 118+12 LT - STA 118+12 RT
RETAIN EXIST 24" RCP

205 STA 118+12 RT
RETAIN EXIST CB

206 STA 118+12 RT - STA 119+44 RT
RETAIN EXIST 18" CMP
CONNECT TO PROPOSED MH (102)

207 STA 1118+09 LT - STA 1118+40 LT
REMOVE 31' x 15" CPEP

208 STA 118+12 LT - STA 120+14 LT
REMOVE 19' X 24" RCP
RETAIN REMAINDER OF PIPE
CONNECT TO NEW PRCCB (103)

209 STA 1118+07 RT - STA 1118+37 RT
RETAIN EXIST 12" CPEP

210 STA 120+15 LT
REMOVE EXIST CB

211 STA 120+15 LT - STA 120+29 LT
REMOVE 16' X 24" RCP
RETAIN REMAINDER OF PIPE
CONNECT TO NEW PRCCB (105)

212 STA 120+29 LT
CHANGE ELEV OF MH
RIM ELEV = 317.16'

213 STA 120+29 RT - STA 120+31 RT
RETAIN EXIST 24" RCP

214 STA 120+31 RT
CHANGE ELEV OF CB
RIM ELEV = 317.40'

215 STA 120+31 RT - STA 121+62 RT
RETAIN EXIST 24" RCP

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

N

VT STATE PLANE GRID

MATCH LINE STA 121+50

CHARLESTOWN RD (VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

MISSING LINK RD (US ROUTE 5)
TO ROCKINGHAM

101 STA 1999+65 RT - STA 1999+60 LT
NEW 18' x 15" CPEP (SL)
INLET ELEV = 310.90'
OUTLET ELEV = 308.90'
15" CPEPES
CONSTRUCT 5.0' LONG x 6.0' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE INLET

102 STA 1999+60 LT
NEW 4' DIA PRCMH WITH CI COVER
CONNECT TO EXIST 18" CMP (206)
RIM ELEV = 311.96'
SUMP ELEV = 306.87'

103 STA 119+95 LT
NEW 5' DIA PRCCB WITH CI GRATE, TYPE E
CONNECT TO EXIST 24" RCP (208)
RIM ELEV = 312.82'
SUMP ELEV = 301.76'

104 STA 119+95 LT - STA 120+19 LT
NEW 25' x 24" CPEP
INLET ELEV = 304.99'
OUTLET ELEV = 303.99'

STA 1998+75.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

105 STA 120+19 LT
NEW 5' DIA PRCCB WITH CI GRATE, TYPE E
CONNECT TO EXIST 24" RCP (211)
RIM ELEV = 314.08'
SUMP ELEV = 303.99'

106 STA 120+19 LT - STA 120+27 LT
NEW 13' x 18" CPEP
INLET ELEV = 309.40'
OUTLET ELEV = 308.04'
18" CPEPES
CONSTRUCT 6.0' LONG x 6.0' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE INLET

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 20		SHEET	378 OF 922

HNTB

(107) STA 126+00 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 335.00'
SUMP ELEV = 329.75

(108) STA 126+00 RT - STA 126+50 RT
NEW 46' x 12" CPEP (SL)
INLET ELEV = 330.75'
OUTLET ELEV = 330.41'

(109) STA 126+50 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 335.65'
SUMP ELEV = 329.41'

(110) STA 126+50 RT - STA 127+75 RT
NEW 121' x 12" CPEP(SL)
INLET ELEV = 330.16'
OUTLET ELEV = 329.25'

[215] SEE DRAINAGE SHEET 20 OF 26

[216] STA 121+62 RT
CHANGE ELEV OF CB
RIM ELEV = 322.67'

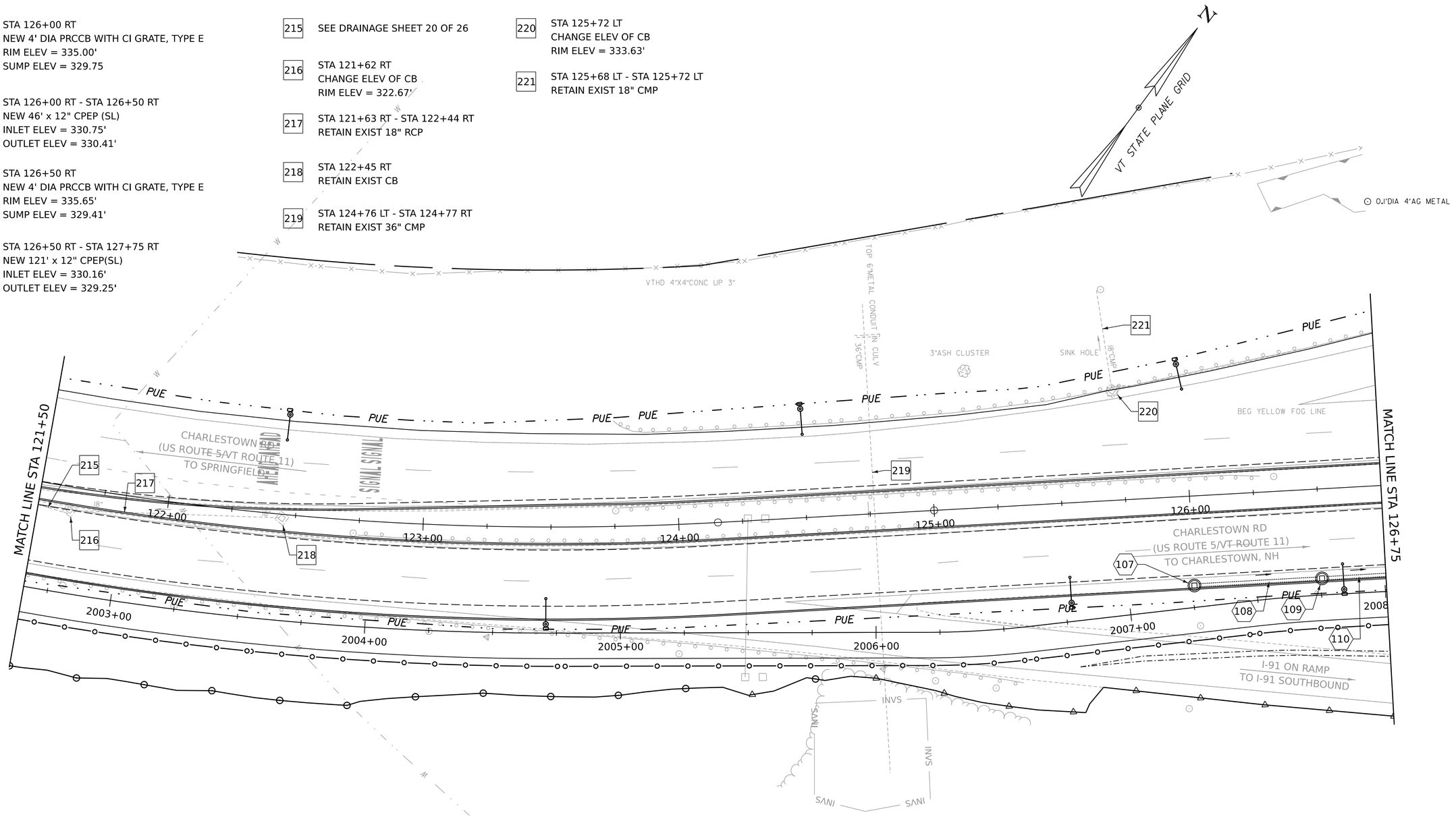
[217] STA 121+63 RT - STA 122+44 RT
RETAIN EXIST 18" RCP

[218] STA 122+45 RT
RETAIN EXIST CB

[219] STA 124+76 LT - STA 124+77 RT
RETAIN EXIST 36" CMP

[220] STA 125+72 LT
CHANGE ELEV OF CB
RIM ELEV = 333.63'

[221] STA 125+68 LT - STA 125+72 LT
RETAIN EXIST 18" CMP



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 21		SHEET	379 OF 922

222 STA 127+18 RT - STA 127+94 RT
REMOVE 104' x 18" RCP AND HEADWALL

223 STA 128+50 LT
RETAIN EXIST CB

224 STA 128+37 LT - STA 128+50 LT
RETAIN EXIST 18" RCP

225 STA 128+50 LT - STA 129+51 LT
RETAIN EXIST 18" RCP

226 STA STA 129+51 LT
RETAIN EXIST CB

118 STA 405+58 RT - STA 129+98 RT
NEW 56' x 18" CPEP (SL)
INLET ELEV = 332.50'
OUTLET ELEV = 332.22'

119 STA 130+00 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 338.26'
SUMP ELEV = 330.97'

120 STA 130+00 RT - STA 130+00 RT
NEW 25' x 18" CPEP(SL)
INLET ELEV = 333.47'
OUTLET ELEV = 332.22'

121 STA 130+00 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE D
RIM ELEV = 340.06'
SUMP ELEV = 332.47'

122 STA 130+00 RT - STA 132+00 RT
NEW 191' x 18" CPEP (SL)
INLET ELEV = 331.97'
OUTLET ELEV = 331.02'

123 STA 132+00 RT - STA 132+00 RT
NEW 27' x 18" CPEP
INLET ELEV = 333.56'
OUTLET ELEV = 331.02'
18" CPEPES
CONSTRUCT 6.0' LONG x 6.0' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

124 STA 132+00 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 338.41'
SUMP ELEV = 330.02'

125 STA 132+00 LT - STA 132+00 RT
NEW 26' x 18" CPEP (SL)
INLET ELEV = 332.32'
OUTLET ELEV = 331.02'

126 STA 132+00 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 340.26'
SUMP ELEV = 331.32'

127 STA 132+00 LT - STA 132+82 LT
NEW 78' x 18" CPEP(SL)
INLET ELEV = 334.81'
OUTLET ELEV = 332.57'

128 STA 132+00 RT - STA 135+00 RT
NEW 286' x 18" CPEP (SL)
INLET ELEV = 330.77'
OUTLET ELEV = 329.32'

VT STATE PLANE GRID

110 SEE SHEET 21 OF 26

111 STA 127+75 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 337.50'
SUMP ELEV = 328.00'

112 STA 127+75 RT - STA 127+86 RT
NEW 43' x 12" CPEP (SL)
INLET ELEV = 329.00'
OUTLET ELEV = 328.67'

113 STA 127+86 RT
NEW 4' DIA PRCCB WITH CI BEEHIVE GRATE
INLET ELEV = 333.50'
SUMP ELEV = 327.42'

114 STA 127+85 RT - STA 127+19 RT
NEW 96' X 12" CPEP(SL)
INLET ELEV = 328.42'
OUTLET ELEV = 327.80'
12" CPEPES
CONSTRUCT 4' LONG x 4' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE OUTLET

115 NEW SURFACE SAND FILTER
BOTTOM = 332.00'
WQV = 333.50'
MIN. TOP = 334.50'

116 NEW FOREBAY
BOTTOM = 333.00'
SPILLWAY = 334.00'
MIN. TOP = 334.50'
CONSTRUCT 16' LONG x 10.5' WIDE
STONE FILL, TYPE I

117 STA 405+58 RT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE D
RIM ELEV = 337.52'
SUMP ELEV = 328.50'

U1 STA 130+05 RT - STA 132+00 RT
NEW 188' x 8" UNDERDRAIN
INVERT ELEV = 334.00'
OUTLET ELEV = 333.40'

U2 STA 132+05 RT - STA 135+50 RT
NEW 334' x 8" UNDERDRAIN
INVERT ELEV = 333.00'
OUTLET ELEV = 331.00'

SEE DRAINAGE SHEETS 1 TO 19 FOR
I-91 DRAINAGE NOTES

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_charlestown.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 22	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	380 OF 922

HNTB

227 STA 132+49 RT
REMOVE EXIST CB

228 STA 132+49 RT - STA 132+65 LT
REMOVE EXIST 65' x 18" CMP

229 STA 132+65 LT
REMOVE EXIST CB

230 STA 132+65 LT - STA 132+74 LT
REMOVE EXIST 65' x 18" CMP

231 STA 132+74 LT
RETAIN EXIST CB

232 STA 132+50 RT - STA 135+26 RT
REMOVE EXIST 265' x 18" CMP

233 STA 135+27 RT
REMOVE EXIST CB

234 STA 135+27 RT - STA 135+45 LT
REMOVE EXIST 57' x 18" CMP

235 STA 135+45 LT
REMOVE EXIST CB

236 STA 135+45 LT
REMOVE EXIST CB

237 STA 135+45 LT - STA 135+88 LT
REMOVE EXIST 155' x 18" CMP

127 128 SEE DRAINAGE SHEET 22 OF 26

129 STA 132+82 LT
NEW 4' DIA PRCCB WITH CI
GRATE, TYPE A
RIM ELEV = 340.08'
SUMP ELEV = 333.81'

130 STA 132+75 LT - STA 132+82 LT
NEW 45' x 18" CPEP (SL)
INLET ELEV = 337.31'
CONNECT TO EXIST CB (231)
OUTLET ELEV = 335.06'

131 STA 135+00 RT
NEW 4' DIA PRCCB WITH CI
GRATE, TYPE E
RIM ELEV = 336.12'
SUMP ELEV = 328.07'

132 STA 135+00 RT - STA 135+50 RT
NEW 44' x 18" CPEP (SL)
INLET ELEV = 329.07'
OUTLET ELEV = 328.85'

133 STA 135+50 RT
NEW 6' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 335.99'
SUMP ELEV = 327.35'

134 STA 135+50 RT - STA 135+50 RT
NEW 25' x 18" CPEP (SL)
INLET ELEV = 332.26'
OUTLET ELEV = 330.76'
18" CPEPES
CONSTRUCT 6.0' LONG x 6.0' WIDE x 1' DEEP
STONE FILL, TYPE I AT PIPE INLET

135 STA 135+50 RT - STA 136+00 RT
NEW 44' x 12" CPEP (SL)
INLET ELEV = 330.01'
OUTLET ELEV = 329.35'

36 37 39 SEE DRAINAGE SHEET 10 OF 26

U2 SEE DRAINAGE SHEET 22 OF 26

136 STA 136+00 RT
NEW 4' DIA PRCCB WTIH CI GRATE, TYPE D
RIM ELEV = 336.27'
SUMP ELEV = 326.01'

137 STA 135+50 RT - STA 135+75 LT
NEW 39' x 24" CPEP (SL)
INLET ELEV = 328.35'
OUTLET ELEV = 327.96'

138 STA 135+09 LT
NEW 4' DIA PRCCB WITH CI
GRATE, TYPE A
RIM ELEV = 338.34'
SUMP ELEV = 331.99'

139 STA 135+09 LT - STA 135+75 LT
NEW 63' x 12" CPEP (SL)
INLET ELEV = 332.49'
OUTLET ELEV = 328.71'

140 STA 135+75 LT
NEW 6' DIA PRCCB WITH CI
GRATE, TYPE E
RIM ELEV = 338.24'
SUMP ELEV = 326.71'

141 STA 135+75 LT - STA 301+50 LT
NEW 124' x 24" RCP CLASS III
INLET ELEV = 327.71'
OUTLET ELEV = 324.27'

142 143 SEE DRAINAGE SHEET 11 OF 26

144 STA 135+75 LT - STA 136+75 LT
NEW 97' x 18" CPEP (SL)
INLET ELEV = 331.12'
OUTLET ELEV = 328.21'

145 STA 136+75 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 339.24'
SUMP ELEV = 330.12'

146 STA 136+75 LT - STA 138+00 LT
NEW 122' x 18" CPEP (SL)
INLET ELEV = 333.81'
OUTLET ELEV = 331.37'

SEE DRAINAGE SHEETS 1 TO 19 FOR I-91 DRAINAGE NOTES
BRIDGE 28 N&S SUPERSTRUCTURES NOT SHOWN FOR CLARITY

END CHARLESTOWN RD (US ROUTE 5 /VT ROUTE 11) PROJECT
STA. 137+00.00

MATCH LINE STA 132+25

MATCH LINE STA 137+50

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN, NH

I-91 NORTHBOUND TO SPRINGFIELD

I-91 SOUTHBOUND TO ROCKINGHAM

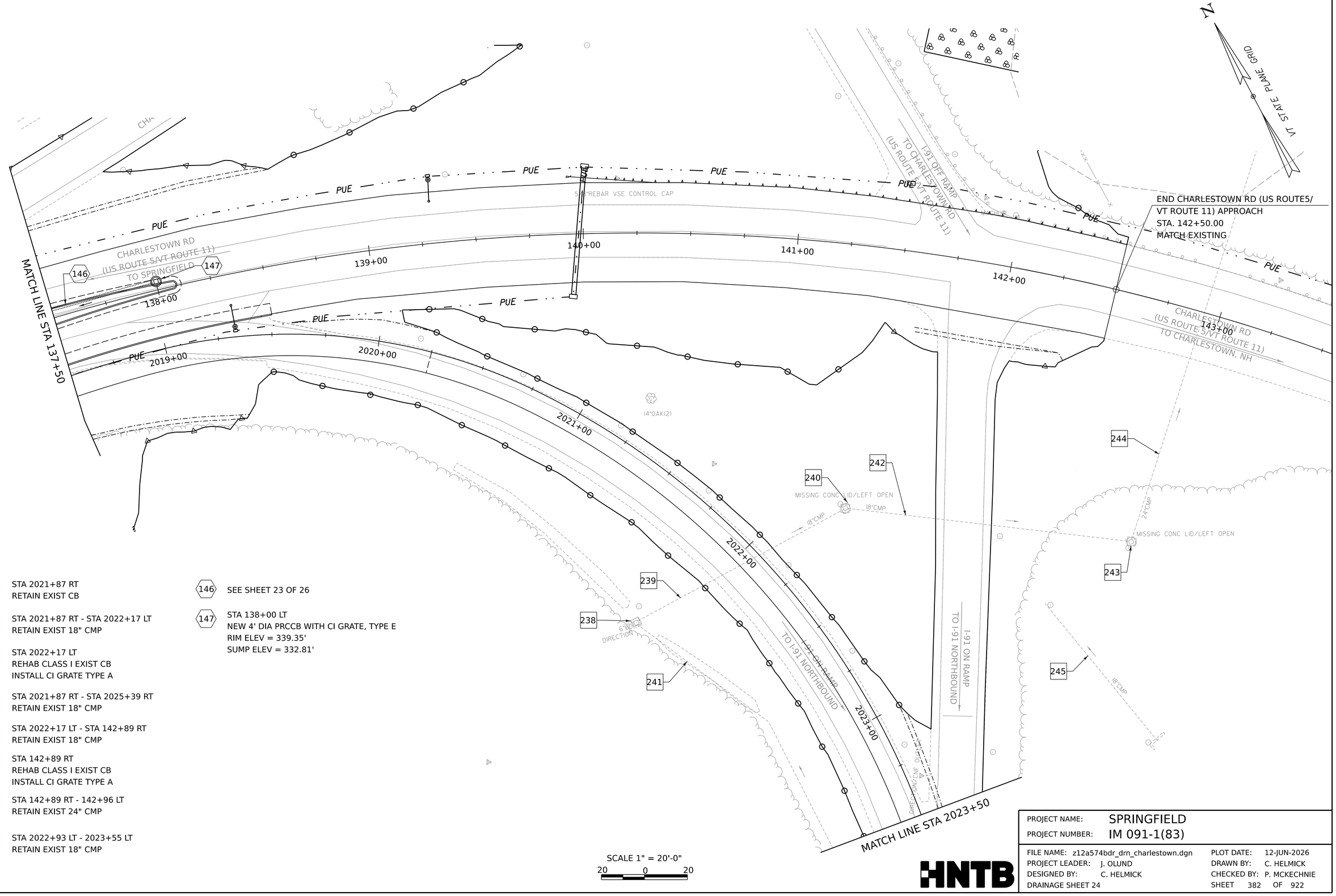
N

VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_drn_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. MCKECHNIE
DRAINAGE SHEET 23	SHEET 381 OF 922

HNTB



238 STA 2021+87 RT
RETAIN EXIST CB

239 STA 2021+87 RT - STA 2022+17 LT
RETAIN EXIST 18" CMP

240 STA 2022+17 LT
REHAB CLASS I EXIST CB
INSTALL CI GRATE TYPE A

241 STA 2021+87 RT - STA 2025+39 RT
RETAIN EXIST 18" CMP

242 STA 2022+17 LT - STA 142+89 RT
RETAIN EXIST 18" CMP

243 STA 142+89 RT
REHAB CLASS I EXIST CB
INSTALL CI GRATE TYPE A

244 STA 142+89 RT - 142+96 LT
RETAIN EXIST 24" CMP

245 STA 2022+93 LT - 2023+55 LT
RETAIN EXIST 18" CMP

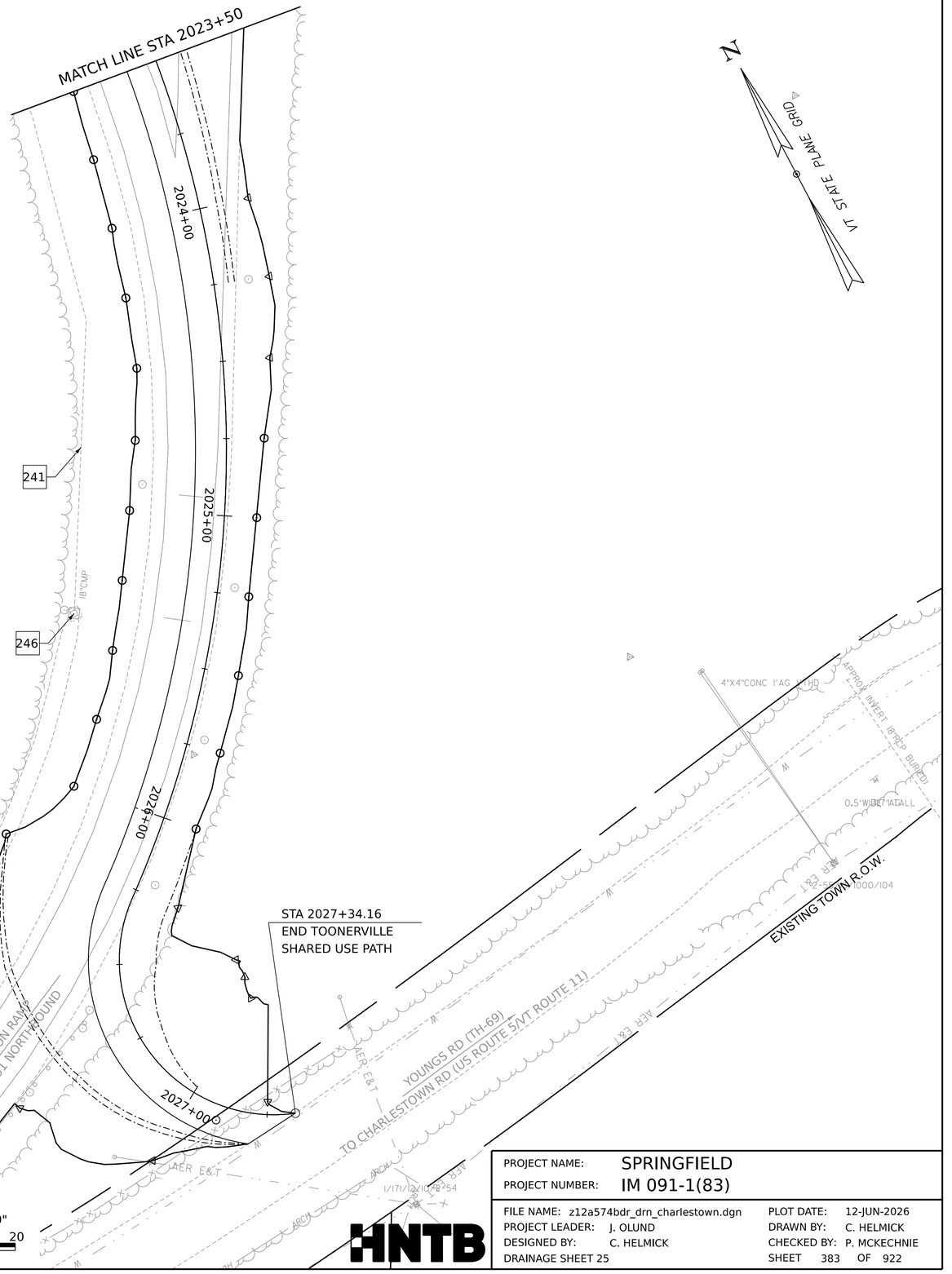
146 SEE SHEET 23 OF 26

147 STA 138+00 LT
NEW 4' DIA PRCCB WITH CI GRATE, TYPE E
RIM ELEV = 339.35'
SUMP ELEV = 332.81'

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdr_drn_charlestown.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
DRAINAGE SHEET 24	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	P. MCKECHNIE
SHEET	382 OF 922

HNTB



241 SEE DRAINAGE SHEET 24 OF 26

246 STA 2025+40 RT
RETAIN EXIST DI

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

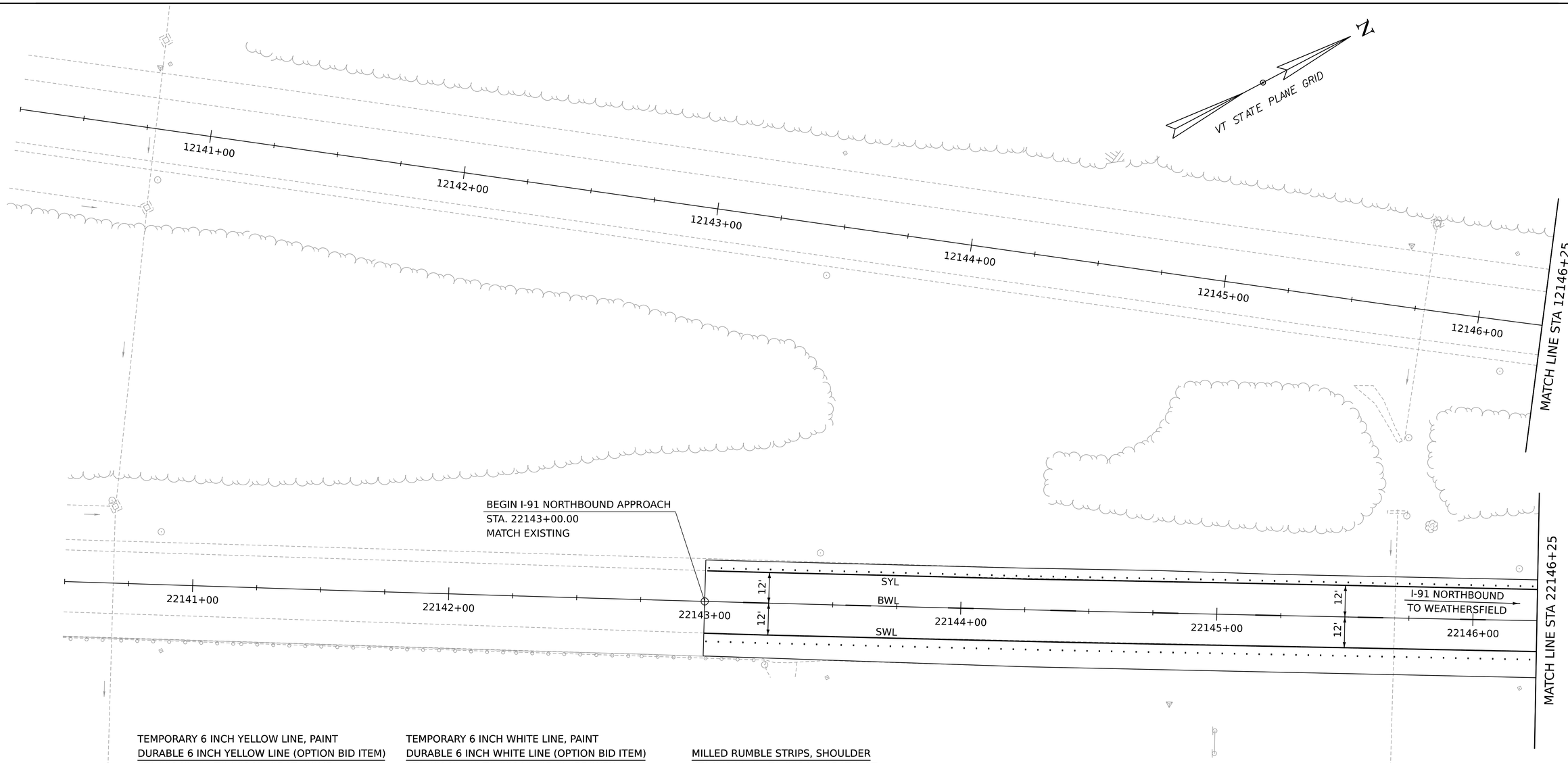
FILE NAME:	z12a574bdr_drn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 25		SHEET	383 OF 922

HNTB



HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_drn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. MCKECHNIE
DRAINAGE SHEET 26		SHEET	384 OF 922



TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 22143+00 TO 22146+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 22143+00 TO 22146+25 CL (BROKEN)
STA 22143+00 TO 22146+25 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 22143+00 TO 22146+25 LT & RT

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

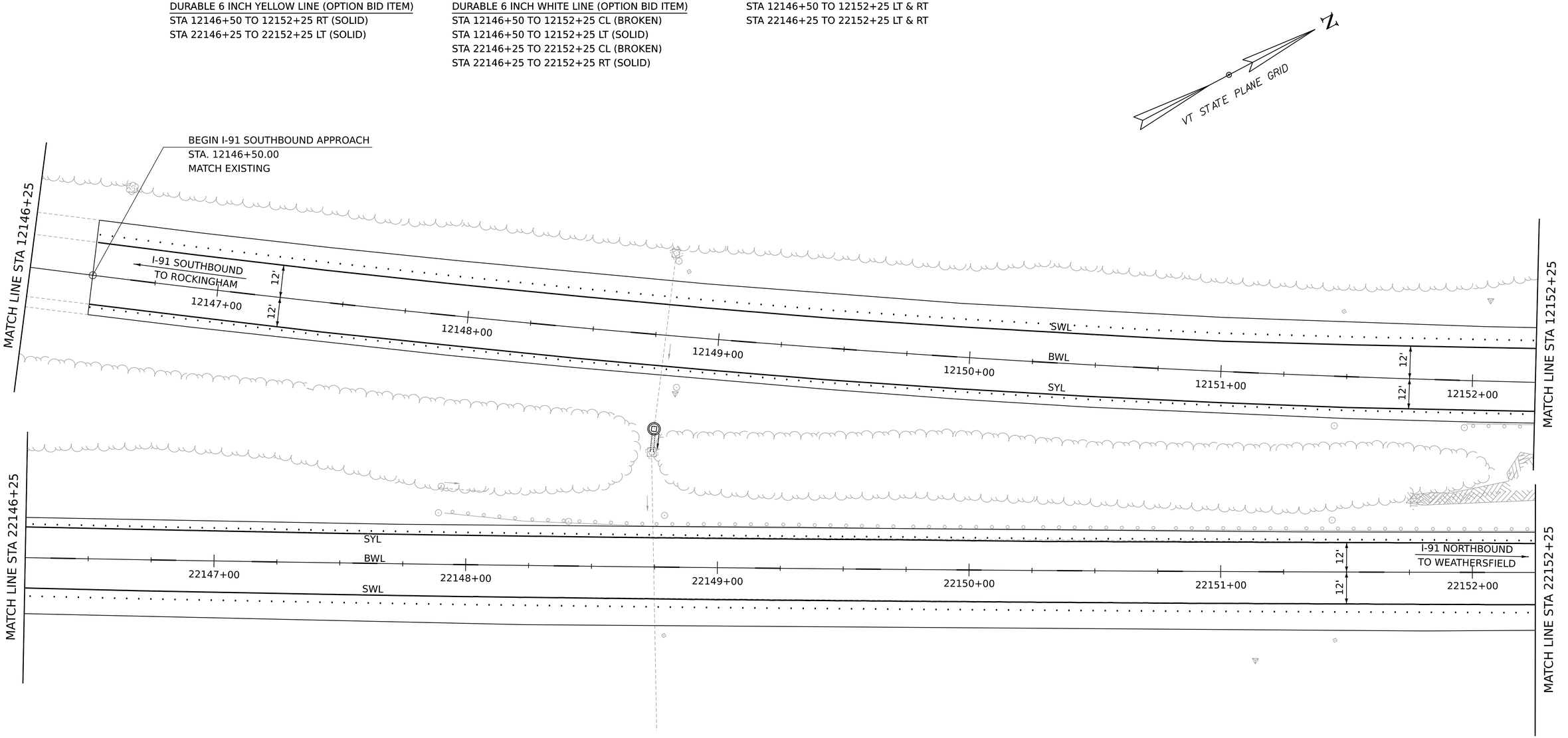
FILE NAME: z12a574bdr_pm_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
PAVEMENT MARKING PLAN SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 385 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12146+50 TO 12152+25 RT (SOLID)
STA 22146+25 TO 22152+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12146+50 TO 12152+25 CL (BROKEN)
STA 12146+50 TO 12152+25 LT (SOLID)
STA 22146+25 TO 22152+25 CL (BROKEN)
STA 22146+25 TO 22152+25 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12146+50 TO 12152+25 LT & RT
STA 22146+25 TO 22152+25 LT & RT



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

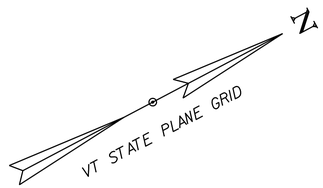
HNTB

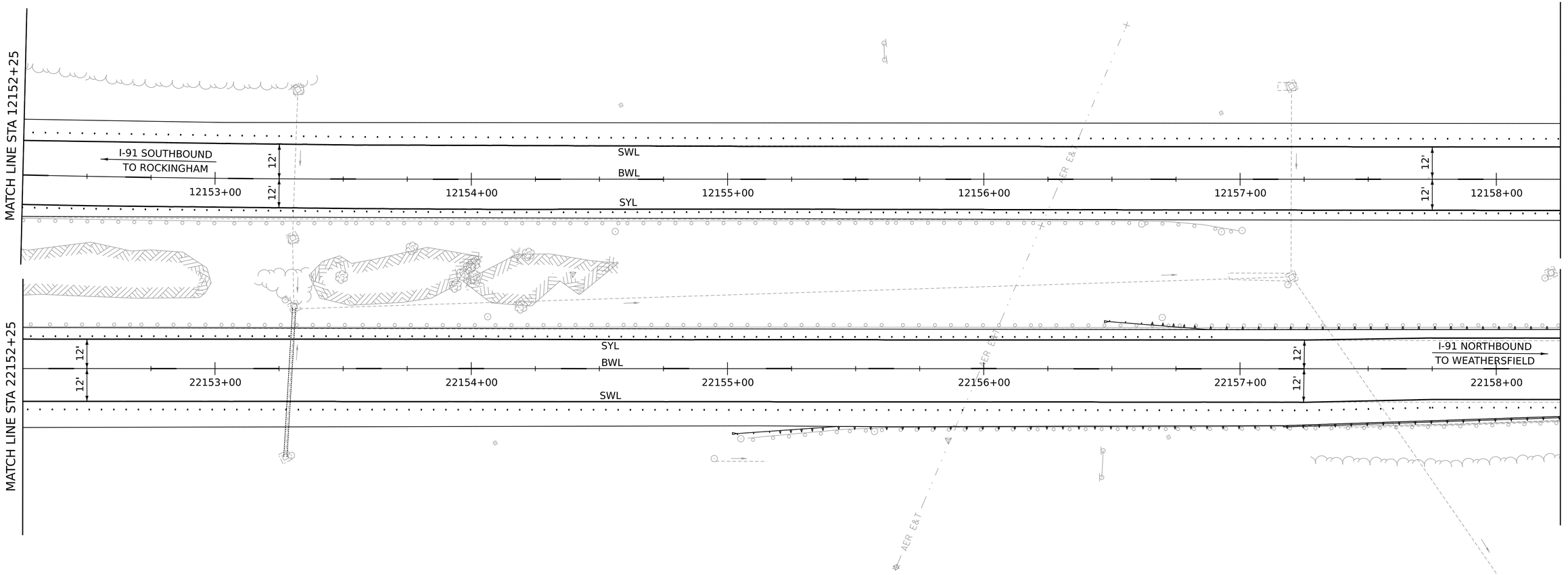
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 2		SHEET	386 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12152+25 TO 12158+25 RT (SOLID)
STA 22152+25 TO 22158+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12152+25 TO 12158+25 CL (BROKEN)
STA 12152+25 TO 12158+25 LT (SOLID)
STA 22152+25 TO 22158+25 CL (BROKEN)
STA 22152+25 TO 22158+25 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12152+25 TO 12158+25 LT & RT
STA 22152+25 TO 22156+90 LT
STA 22152+25 TO 22158+25 RT





PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
• • •= RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 3		SHEET	387 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12158+25 TO 12164+25 RT (SOLID)
STA 22158+25 TO 22164+25 LT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12158+25 TO 12159+65 RT
STA 12158+25 TO 12160+00 LT
STA 12163+00 TO 12164+25 LT
STA 22158+25 TO 22159+00 RT
STA 22162+25 TO 22164+25 LT & RT

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12158+25 TO 12164+25 CL (BROKEN)
STA 12158+25 TO 12164+25 LT (SOLID)
STA 22158+25 TO 22164+25 CL (BROKEN)
STA 22158+25 TO 22164+25 RT (SOLID)

N

VT STATE PLANE GRID

MATCH LINE STA 12158+25

BEGIN I-91 SOUTHBOUND PROJECT
STA. 12159+75.00

BEGIN BRIDGE 25S
STA. 12160+45.06

STOP I-91 SOUTHBOUND PROJECT
STA. 12163+25.00

END BRIDGE 25S
STA. 12162+51.45

I-91 SOUTHBOUND
TO ROCKINGHAM

SWL
BWL
SYL

12'

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

1091+00 1090+00 1089+00 1088+00 1087+00 1086+00

MATCH LINE STA 12164+25

MATCH LINE STA 22158+25

SYL
BWL
SWL

12'

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

I-91 NORTHBOUND
TO WEATHERSFIELD

+98.19

BEGIN I-91
NORTHBOUND PROJECT
STA. 22159+00.00

BEGIN BRIDGE 25N
STA. 22159+61.09

STOP I-91 NORTHBOUND PROJECT
STA. 22162+50.00

END BRIDGE 25N
STA. 22161+87.48

ARCH

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · · = RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_pm_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 4	SHEET 388 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12164+25 TO 12170+25 RT (SOLID)
STA 22164+25 TO 22170+25 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12164+25 TO 12170+25 CL (BROKEN)
STA 12164+25 TO 12170+25 LT (SOLID)
STA 22164+25 TO 22170+25 CL (BROKEN)
STA 22164+25 TO 22170+25 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12164+25 TO 12170+25 LT
STA 12165+46 TO 12170+25 RT
STA 22164+25 TO 22170+25 LT
STA 22164+25 TO 22170+25 RT

N
VT STATE PLANE GRID

MATCH LINE STA 12164+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

SWL
BWL
SYL

12' 12' 12' 12'

MATCH LINE STA 12170+25

MATCH LINE STA 22164+25

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

SYL
BWL
SWL

12' 12' 12' 12'

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22170+25

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · · = RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

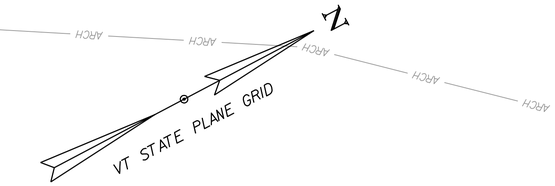
FILE NAME: z12a574bdr_pm_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
PAVEMENT MARKING PLAN SHEET 5

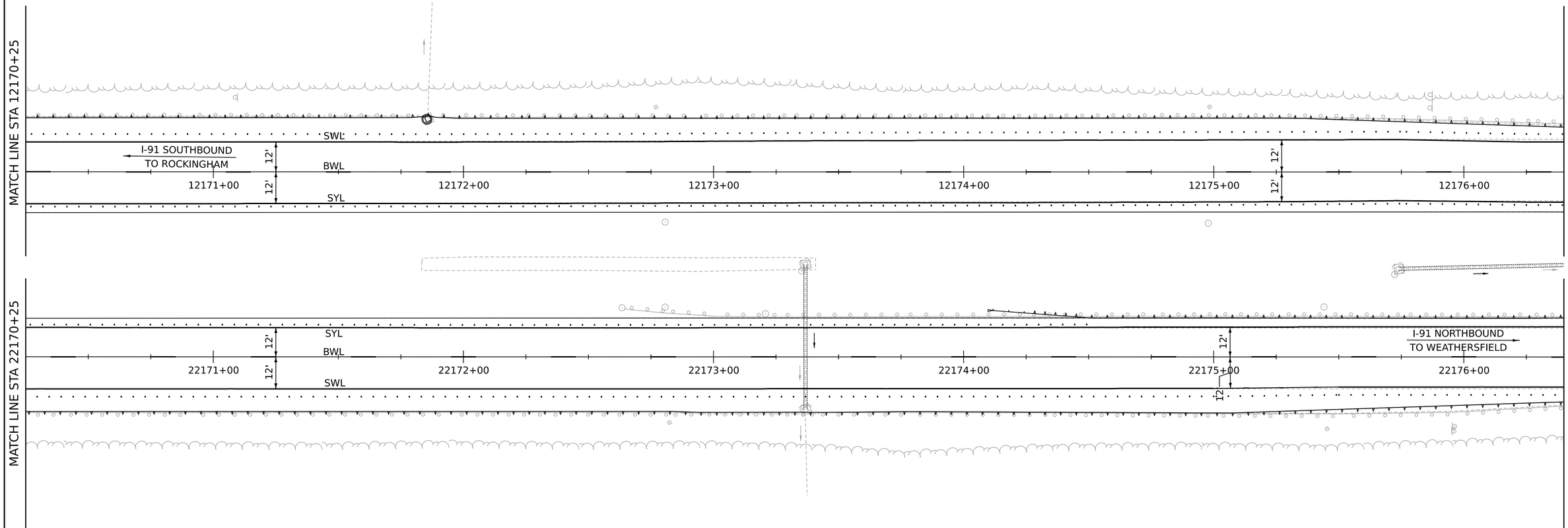
PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 389 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12170+25 TO 12176+40 RT (SOLID)
STA 22170+25 TO 22176+40 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12170+25 TO 12176+40 CL (BROKEN)
STA 12170+25 TO 12176+40 LT (SOLID)
STA 22170+25 TO 22176+40 CL (BROKEN)
STA 22170+25 TO 22176+40 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12170+25 TO 12176+40 LT
STA 12170+25 TO 12176+40 RT
STA 22170+25 TO 22174+51 LT
STA 22170+25 TO 22176+40 RT





PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · · = RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_pm_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 6	SHEET 390 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12176+40 TO 12182+50 RT (SOLID)
STA 22176+40 TO 22182+50 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
12176+40 TO 12182+50 CL (BROKEN)
12176+40 TO 12182+50 LT (SOLID)
22176+40 TO 22182+50 CL (BROKEN)
22176+40 TO 22182+50 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12176+40 TO 12176+75 LT
STA 12176+40 TO 12176+75 RT
STA 12181+00 TO 12182+50 LT
STA 22176+40 TO 22176+75 RT
STA 22180+75 TO 22182+50 RT
STA 22180+95 TO 22182+50 LT

VT STATE PLANE GRID

RESUME I-91 SOUTHBOUND PROJECT
STA. 12176+75.00

BEGIN BRIDGE 26S
STA. 12177+29.57

BLACK RIVER

END BRIDGE 26S
STA. 12180+42.07

STOP I-91 SOUTHBOUND PROJECT
STA. 12181+00.00

MATCH LINE STA 12176+40

I-91 SOUTHBOUND
TO ROCKINGHAM

12'

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

SWL
BWL
SYL

MATCH LINE STA 12182+50

STOP I-91 NORTHBOUND PROJECT
STA. 22181+00.00

MATCH LINE STA 22176+40

SYL
BWL
SWL

I-91 NORTHBOUND
TO WEATHERSFIELD

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

MATCH LINE STA 22182+50

BEGIN BRIDGE 26N
STA. 22177+29.50

END BRIDGE 26N
STA. 22180+42.00

RESUME I-91 NORTHBOUND PROJECT
STA. 22176+75.00

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
• • • = RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

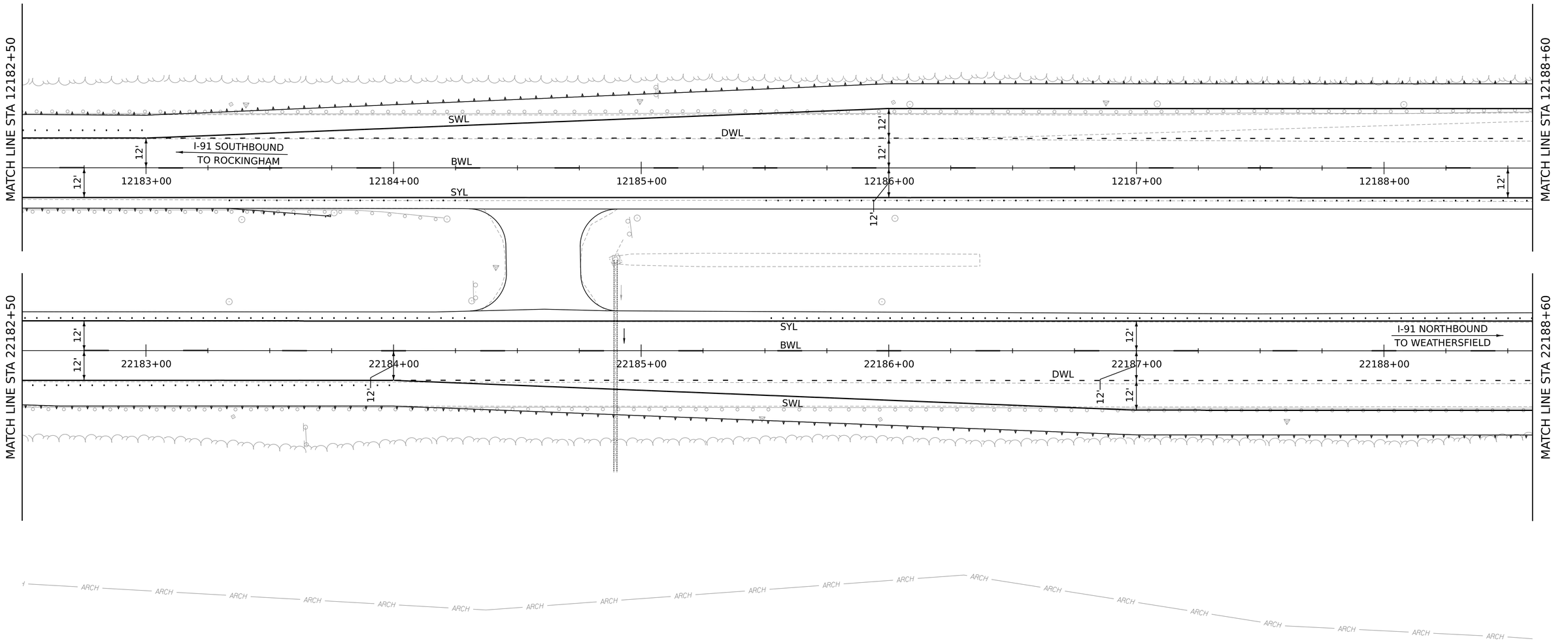
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 7		SHEET	391 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12182+50 TO 12188+60 RT (SOLID)
STA 22182+50 TO 22188+60 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12182+50 TO 12188+60 CL (BROKEN)
STA 12182+50 TO 12188+60 LT (SOLID)
STA 12183+00 TO 12188+60 LT (DASHED)
STA 22182+50 TO 22188+60 CL (BROKEN)
STA 22182+50 TO 22188+60 RT (SOLID)
STA 22184+00 TO 22188+60 RT (DASHED)

MILLED RUMBLE STRIPS, SHOULDER
STA 12182+50 TO 12183+00 LT
STA 12183+32 TO 12184+30 RT
STA 12185+50 TO 12188+60 RT
STA 22182+50 TO 22184+00 RT
STA 22182+50 TO 22184+31 LT
STA 22185+50 TO 22188+60 LT

VT STATE PLANE GRID



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 8		SHEET	392 OF 922

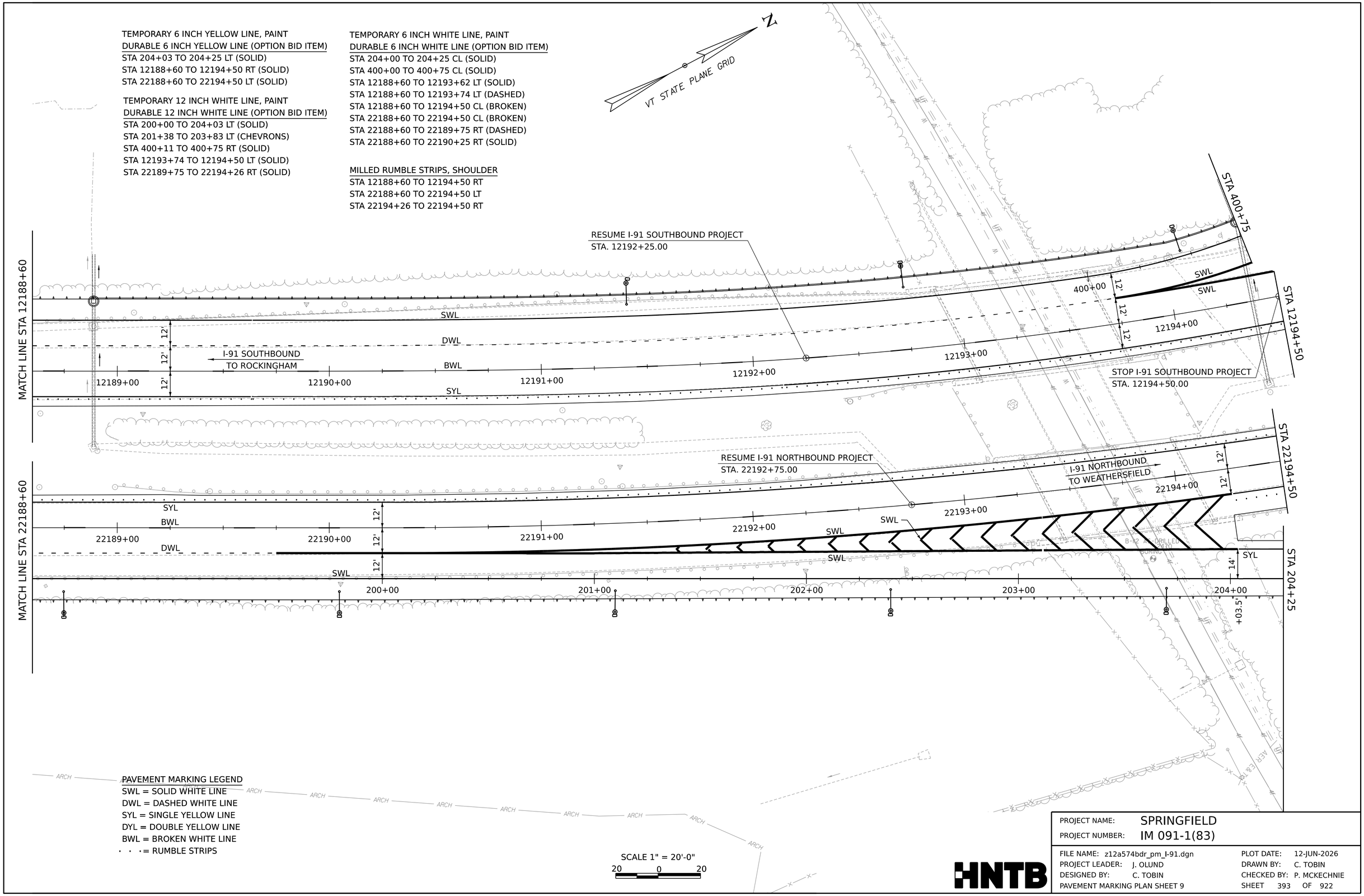
HNTB

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 204+03 TO 204+25 LT (SOLID)
STA 12188+60 TO 12194+50 RT (SOLID)
STA 22188+60 TO 22194+50 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)
STA 200+00 TO 204+03 LT (SOLID)
STA 201+38 TO 203+83 LT (CHEVRONS)
STA 400+11 TO 400+75 RT (SOLID)
STA 12193+74 TO 12194+50 LT (SOLID)
STA 22189+75 TO 22194+26 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 204+00 TO 204+25 CL (SOLID)
STA 400+00 TO 400+75 CL (SOLID)
STA 12188+60 TO 12193+62 LT (SOLID)
STA 12188+60 TO 12193+74 LT (DASHED)
STA 12188+60 TO 12194+50 CL (BROKEN)
STA 22188+60 TO 22194+50 CL (BROKEN)
STA 22188+60 TO 22189+75 RT (DASHED)
STA 22188+60 TO 22190+25 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12188+60 TO 12194+50 RT
STA 22188+60 TO 22194+50 LT
STA 22194+26 TO 22194+50 RT



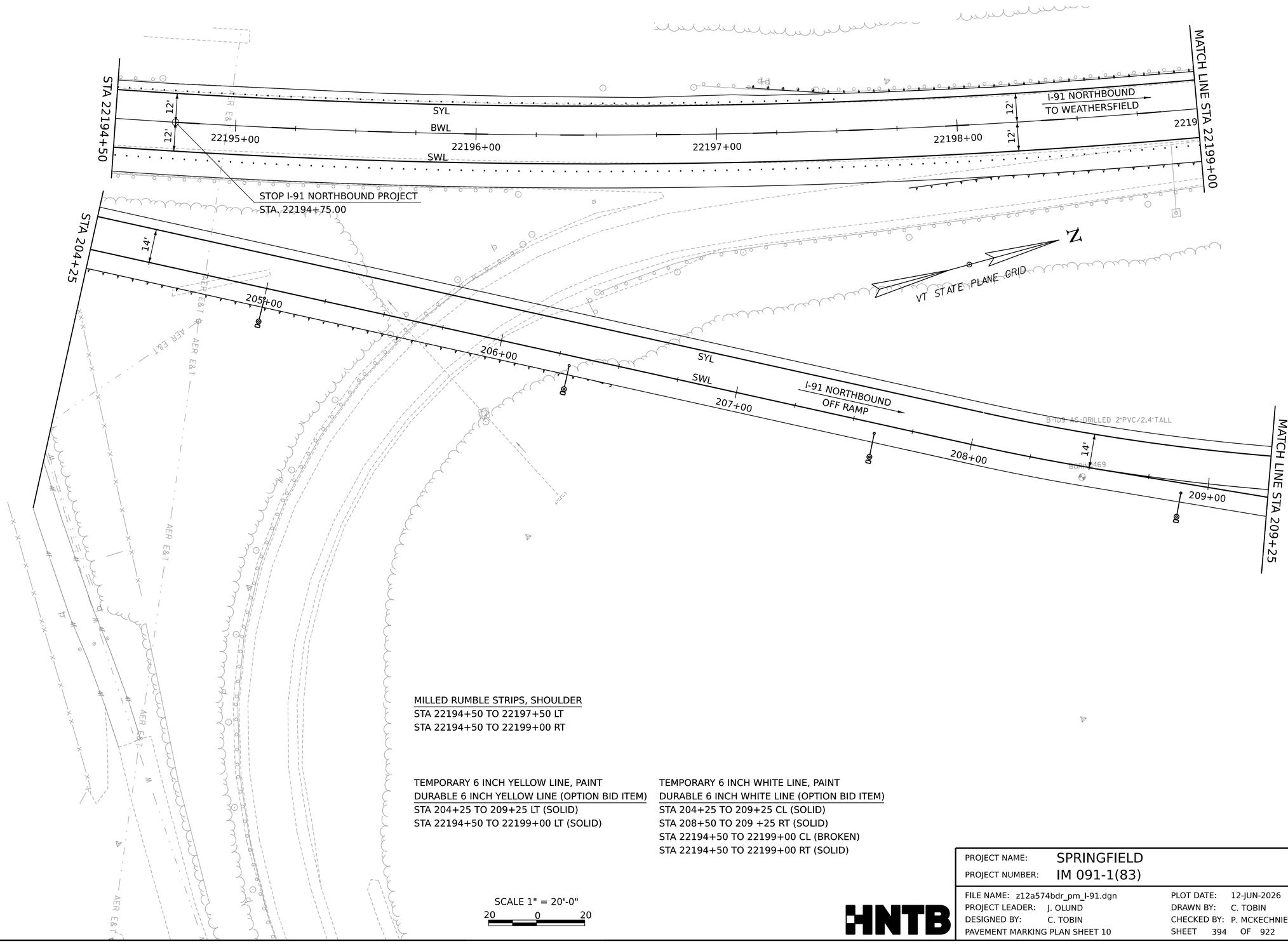
PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · · = RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 9		SHEET	393 OF 922



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

MILLED RUMBLE STRIPS, SHOULDER
STA 22194+50 TO 22197+50 LT
STA 22194+50 TO 22199+00 RT

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 204+25 TO 209+25 LT (SOLID)
STA 22194+50 TO 22199+00 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 204+25 TO 209+25 CL (SOLID)
STA 208+50 TO 209 +25 RT (SOLID)
STA 22194+50 TO 22199+00 CL (BROKEN)
STA 22194+50 TO 22199+00 RT (SOLID)

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_pm_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
PAVEMENT MARKING PLAN SHEET 10

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 394 OF 922

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 209+25

MATCH LINE STA 303+25

VT STATE PLANE GRID

N

I-91 NORTHBOUND
TO WEATHERSFIELD

I-91 NORTHBOUND
OFF RAMP

I-91 NORTHBOUND ON RAMP
TO WEATHERSFIELD

RESUME I-91 NORTHBOUND PROJECT
STA. 22200+00.00

BEGIN BRIDGE 28N
STA. 22200+59.13

END BRIDGE 28N
STA. 22202+40.86

B-102 AS-DRILLED
BORING 2464

B-103 AS-DRILLED
BORING 2463

B-104A AS-DRILLED
BORING 2460

B-107 AS-DRILLED
BORING 2461

B-108 AS-DRILLED
BORING 2462

SYL
BWL
SWL
DWL
DYL

R = 345'
R = 441'
R = 44'
R = 69'
R = 38'

12'
14'
8.7'

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 209+25 TO 209+89 CL (SOLID)
STA 210+50 TO 211+54 CL (SOLID)
STA 209+25 TO 211+61 RT (SOLID)
STA 300+18 RT TO 303+25 CL (SOLID)
STA 22199+00 TO 22204+75 CL (BROKEN)
STA 22199+00 TO 22204+75 RT (SOLID)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR (OPTION BID ITEM)
STA 211+54

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 209+25 TO 211+60 LT (SOLID)
STA 300+20 TO 303+25 LT (SOLID)
STA 22199+00 TO 22204+75 LT (SOLID)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL (OPTION BID ITEM)
STA 210+50 LT (LEFT ARROW)
STA 210+50 RT (RIGHT ARROW)
STA 211+41 LT (LEFT ARROW)
STA 211+41 RT (RIGHT ARROW)

MILLED RUMBLE STRIPS, SHOULDER
22199+00 TO 22200+25 RT
22202+75 TO 22204+75 RT
22203+50 TO 22204+75 LT

SCALE 1" = 20'-0"
20 0 20

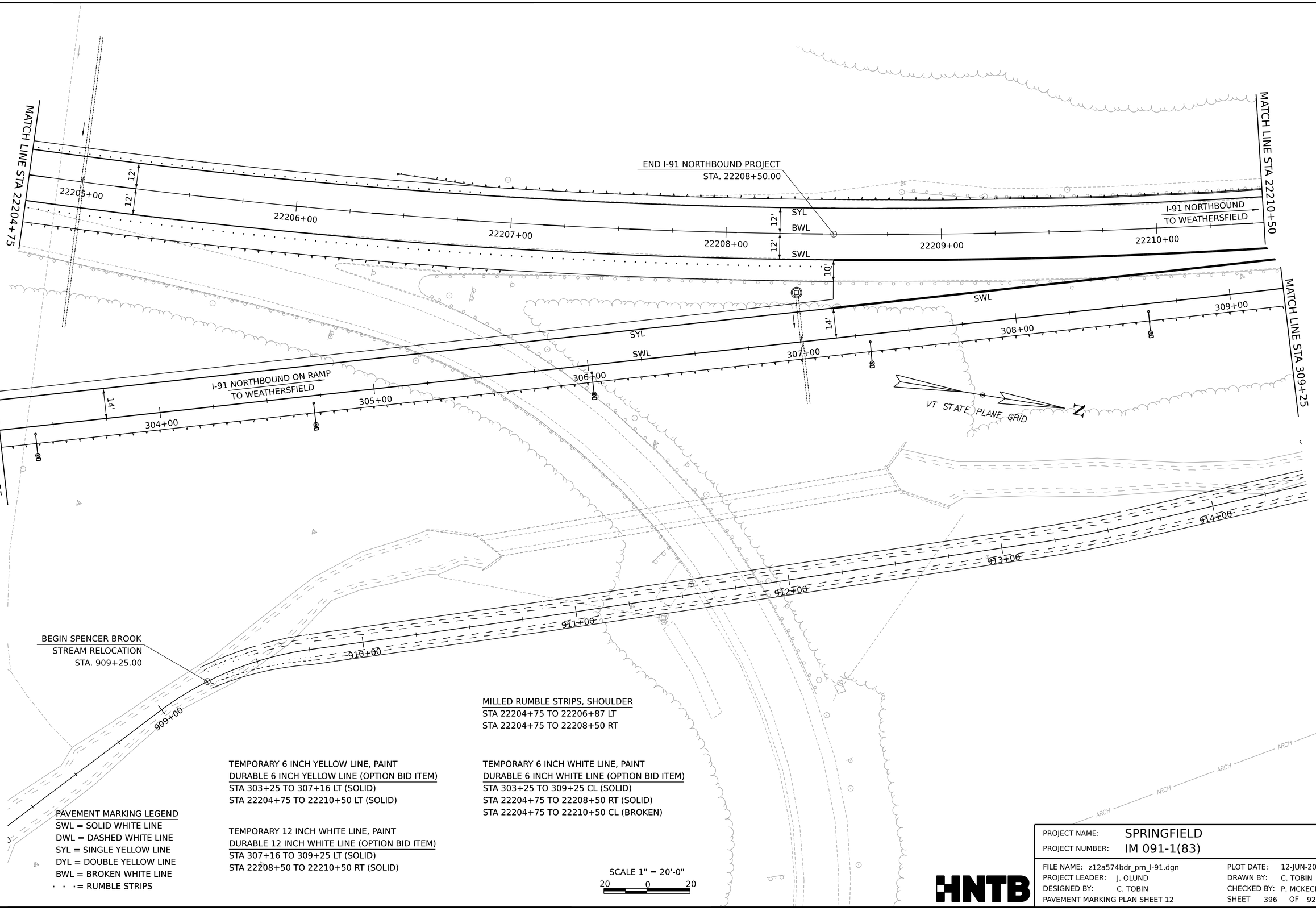
SEE PAVEMENT MARKING PLAN SHEETS 20 TO 24 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) STRIPING

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_pm_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
PAVEMENT MARKING PLAN SHEET 11

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 395 OF 922

HNTB



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
• • •= RUMBLE STRIPS

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 303+25 TO 307+16 LT (SOLID)
STA 22204+75 TO 22210+50 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)
STA 307+16 TO 309+25 LT (SOLID)
STA 22208+50 TO 22210+50 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 22204+75 TO 22206+87 LT
STA 22204+75 TO 22208+50 RT

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 303+25 TO 309+25 CL (SOLID)
STA 22204+75 TO 22208+50 RT (SOLID)
STA 22204+75 TO 22210+50 CL (BROKEN)

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 12		SHEET 396 OF 922	

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

I-91 NORTHBOUND
TO WEATHERSFIELD

VT STATE PLANE GRID

N

SWL
SWL
SYL
BWL
DWL
SWL

12'

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 22210+50 to 22216+50 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 309+25 TO 311+88 CL (SOLID)
STA 22210+50 TO 22216+50 CL (BROKEN)
STA 22213+18 TO 22216+50 RT (DASHED)
STA 22213+18 TO 22216+50 RT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 8 INCH WHITE LINE (OPTION BID ITEM)
STA 309+25 TO 311+88 LT (SOLID)
STA 22210+50 TO 22213+18 RT (SOLID)

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · · · = RUMBLE STRIPS

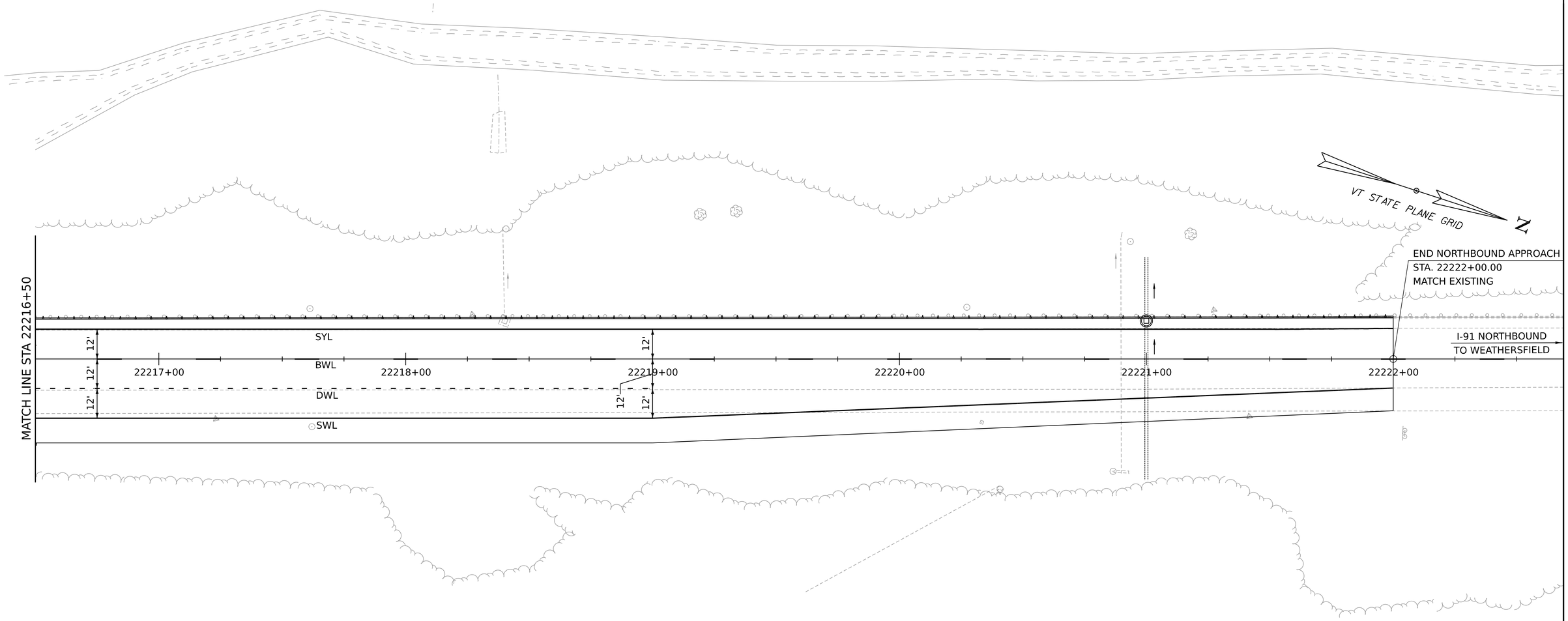
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 13		SHEET	397 OF 922

HNTB

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 22216+50 TO 22222+00 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 22216+50 TO 22222+00 CL (BROKEN)
STA 22216+50 TO 22219+00 RT (DASHED)
STA 22216+50 TO 22222+00 RT (SOLID)



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 14		SHEET	398 OF 922

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

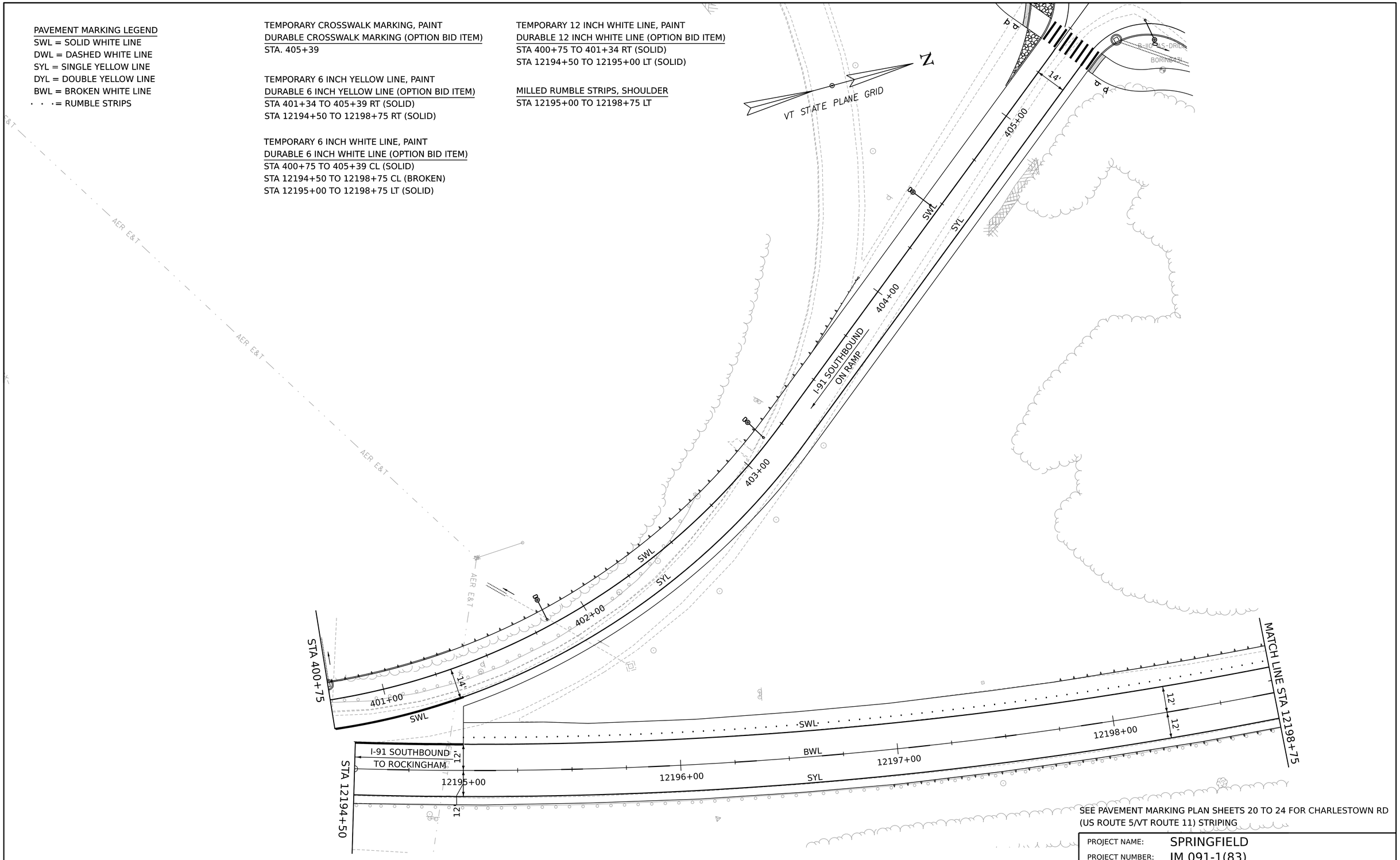
TEMPORARY CROSSWALK MARKING, PAINT
DURABLE CROSSWALK MARKING (OPTION BID ITEM)
STA. 405+39

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 401+34 TO 405+39 RT (SOLID)
STA 12194+50 TO 12198+75 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 400+75 TO 405+39 CL (SOLID)
STA 12194+50 TO 12198+75 CL (BROKEN)
STA 12195+00 TO 12198+75 LT (SOLID)

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)
STA 400+75 TO 401+34 RT (SOLID)
STA 12194+50 TO 12195+00 LT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12195+00 TO 12198+75 LT



SCALE 1" = 20'-0"
20 0 20

SEE PAVEMENT MARKING PLAN SHEETS 20 TO 24 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) STRIPING

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 15		SHEET	399 OF 922

HNTB

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12198+75 TO 12204+00 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12198+75 TO 12199+50 LT
STA 12202+00 TO 12204+00 LT

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12198+75 TO 12204+00 CL (BROKEN)
STA 12198+75 TO 12204+00 LT (SOLID)

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

VT STATE PLANE GRID

RESUME I-91
SOUTHBOUND PROJECT
STA. 12199+25.00

BEGIN BRIDGE 28S
STA. 12199+87.62

END BRIDGE 28S
STA. 12201+75.92

MATCH LINE STA 12198+75

MATCH LINE STA 12204+00

I-91 SOUTHBOUND
TO ROCKINGHAM

12199+00

12200+00

12201+00

12202+00

12203+00

1220

SWL

BWL

SYL

12'

12'

12'

12'

130+00

131+00

132+00

134+00

B-101 AS-DRILLED
BORING 2465

B-102 AS-DRILLED
BORING 2466

B-103 AS-DRILLED
BORING 2467

B-105 AS-DRILLED
BORING 2467

SCALE 1" = 20'-0"
20 0 20

SEE PAVEMENT MARKING PLAN SHEETS 20 TO 24 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) STRIPING

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 16		SHEET	400 OF 922

HNTB

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12204+00 TO 12205+72 LT (SOLID)
STA 12204+00 TO 12209+50 CL (BROKEN)
STA 12205+80 TO 12209+50 LT (SOLID)
STA 12207+35 TO 12209+50 LT (DASHED)

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12204+00 TO 12209+50 RT (SOLID)

MILLED RUMBLE STRIPS, SHOULDER
STA 12204+00 TO 12205+72 LT

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)
STA 12205+72 TO 12207+35 LT (SOLID)
STA 12205+76 TO 12207+35 LT (SOLID)
STA 12205+77 TO 12206+52 LT (CHEVRONS)

VT STATE PLANE GRID
N

END I-91 SOUTHBOUND PROJECT
STA. 12204+50.00

I-91 SOUTHBOUND
OFF RAMP

MATCH LINE STA 12204+00

I-91 SOUTHBOUND
TO ROCKINGHAM

4+00
12205+00
12206+00
12207+00
12208+00
12209+00

SWL
SWL
SWL
DWL
BWL
SYL

16.2'
13'
12'
12'
12'
12'
12'
12'
12'

MATCH LINE STA 12209+50

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 17		SHEET	401 OF 922

HNTB

MILLED RUMBLE STRIPS, SHOULDER
STA 12212+43 TO 12215+30 LT

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12209+50 to 12215+30 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12209+50 TO 12215+30 LT (SOLID)
STA 12209+50 TO 12212+45 LT (DASHED)
STA 12209+50 TO 12215+30 CL (BROKEN)

VT STATE PLANE GRID
N

MATCH LINE STA 12209+50

I-91 SOUTHBOUND
TO ROCKINGHAM

12'
12'

DWL

12210+00
12211+00
12212+00
+43
12213+00
12214+00
12215+00

SWL
BWL
SYL

12'
12'
12'

MATCH LINE STA 12215+30

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · · = RUMBLE STRIPS

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

918+00
919+00

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

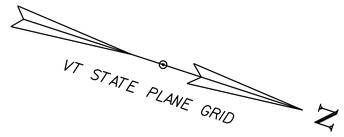
FILE NAME: z12a574bdr_pm_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
PAVEMENT MARKING PLAN SHEET 18

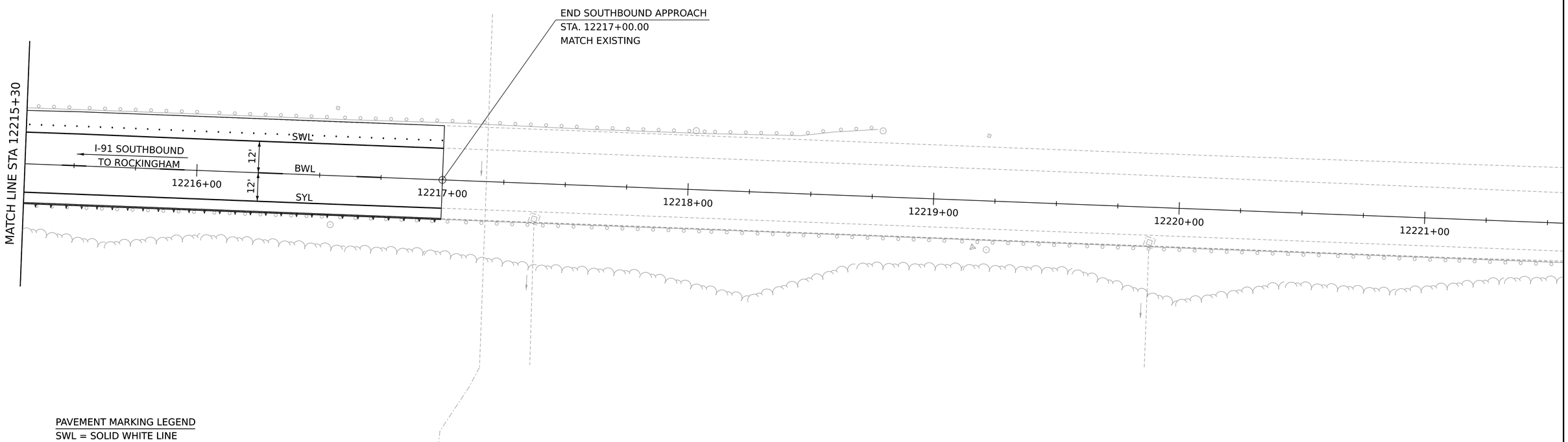
PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 402 OF 922

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 12215+30 TO 12217+00 RT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 12215+30 TO 12217+00 LT (SOLID)
STA 12215+30 TO 12217+00 CL (BROKEN)

MILLED RUMBLE STRIPS, SHOULDER
STA 12215+30 TO 12217+00 LT





PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE
· · ·= RUMBLE STRIPS

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdr_pm_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
PAVEMENT MARKING PLAN SHEET 19

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 403 OF 922

DURABLE 4 INCH YELLOW LINE (OPTION BID ITEM)
STA 120+16 TO 121+50 RT (SOLID)
STA 120+22 TO 121+50 CL (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA 120+16 TO 121+50 RT (SOLID)
STA 120+22 TO 121+50 CL (SOLID)
STA 1999+25 RT
STA 2001+60 RT

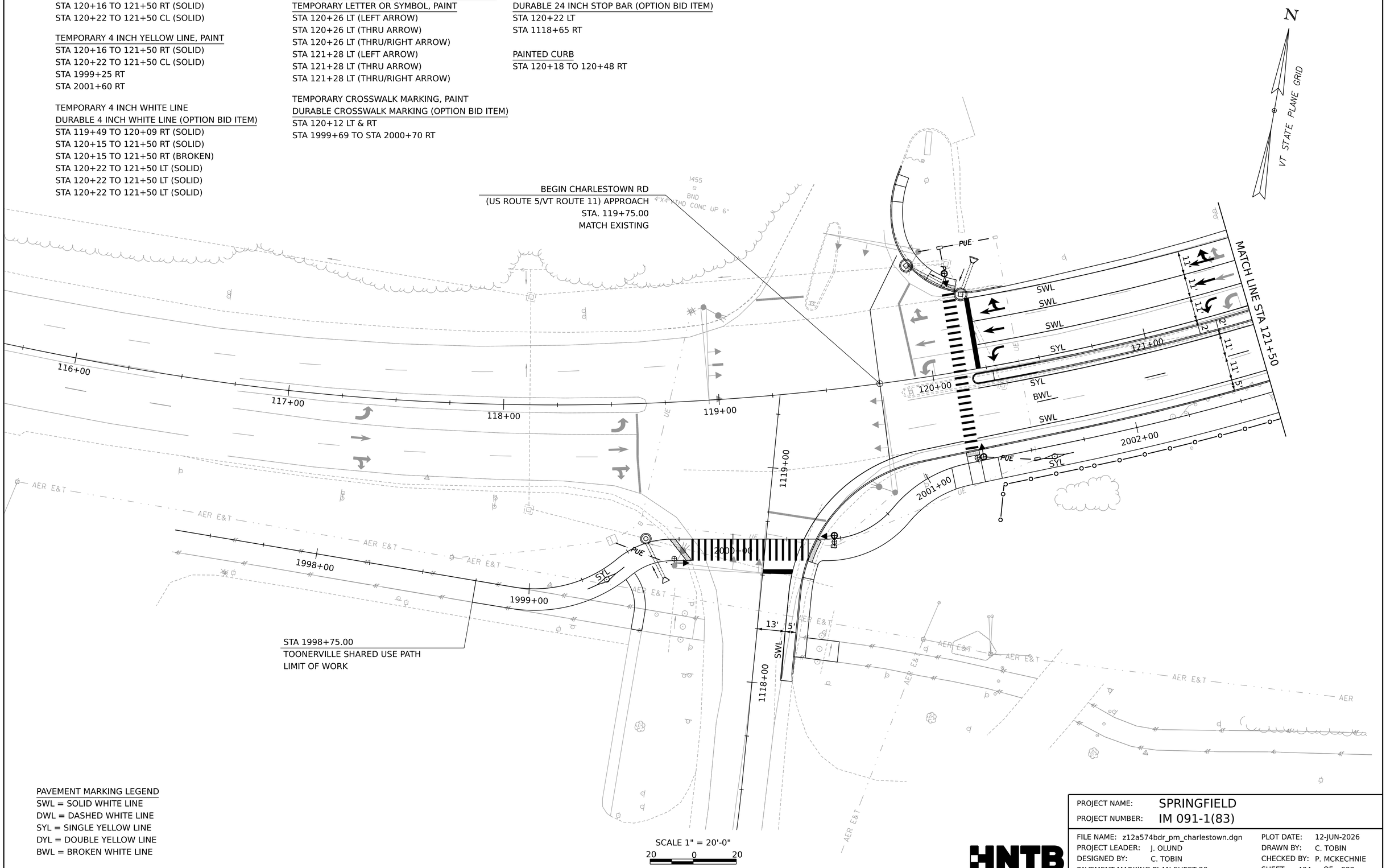
TEMPORARY 4 INCH WHITE LINE
DURABLE 4 INCH WHITE LINE (OPTION BID ITEM)
STA 119+49 TO 120+09 RT (SOLID)
STA 120+15 TO 121+50 RT (SOLID)
STA 120+15 TO 121+50 RT (BROKEN)
STA 120+22 TO 121+50 LT (SOLID)
STA 120+22 TO 121+50 LT (SOLID)
STA 120+22 TO 121+50 LT (SOLID)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)
TEMPORARY LETTER OR SYMBOL, PAINT
STA 120+26 LT (LEFT ARROW)
STA 120+26 LT (THRU ARROW)
STA 120+26 LT (THRU/RIGHT ARROW)
STA 121+28 LT (LEFT ARROW)
STA 121+28 LT (THRU ARROW)
STA 121+28 LT (THRU/RIGHT ARROW)

TEMPORARY CROSSWALK MARKING, PAINT
DURABLE CROSSWALK MARKING (OPTION BID ITEM)
STA 120+12 LT & RT
STA 1999+69 TO STA 2000+70 RT

TEMPORARY 24 INCH STOP BAR
DURABLE 24 INCH STOP BAR (OPTION BID ITEM)
STA 120+22 LT
STA 1118+65 RT

PAINTED CURB
STA 120+18 TO 120+48 RT



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 20		SHEET	404 OF 922

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE (OPTION BID ITEM)
STA 121+50 TO 126+75 RT (SOLID)
STA 121+50 CL TO 126+75 LT (SOLID)

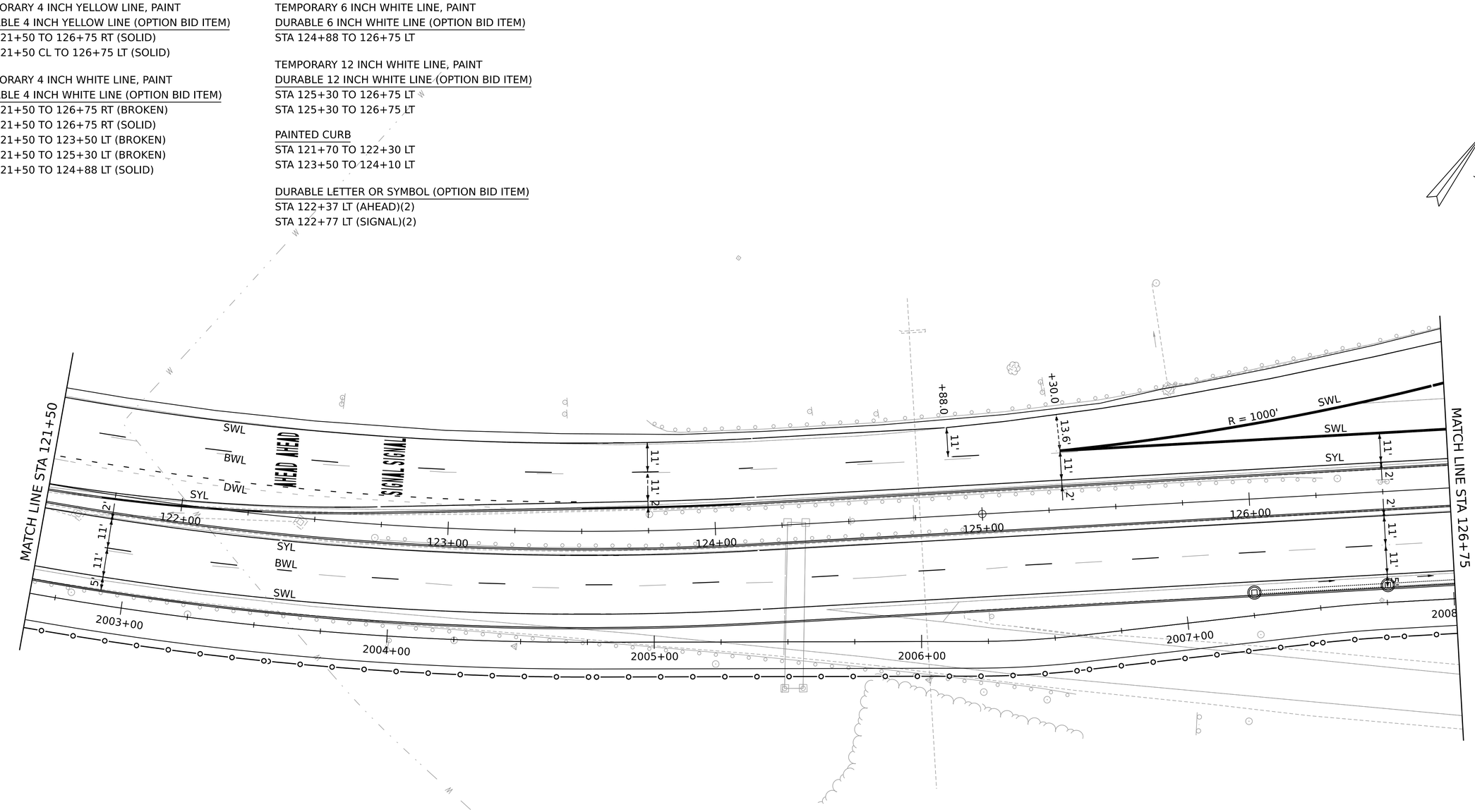
TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE (OPTION BID ITEM)
STA 121+50 TO 126+75 RT (BROKEN)
STA 121+50 TO 126+75 RT (SOLID)
STA 121+50 TO 123+50 LT (BROKEN)
STA 121+50 TO 125+30 LT (BROKEN)
STA 121+50 TO 124+88 LT (SOLID)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 124+88 TO 126+75 LT

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)
STA 125+30 TO 126+75 LT
STA 125+30 TO 126+75 LT

PAINTED CURB
STA 121+70 TO 122+30 LT
STA 123+50 TO 124+10 LT

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)
STA 122+37 LT (AHEAD)(2)
STA 122+77 LT (SIGNAL)(2)



PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 21		SHEET	405 OF 922

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) PROJECT
STA. 129+00.00

N

VT STATE PLANE GRID

MATCH LINE STA 126+75

MATCH LINE STA 132+25

SCALE 1" = 20'-0"
20 0 20

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
STA 129+17 LT (I-91 SB OFF RAMP)

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
STA 129+39 LT (SOLID) (I-91 SB OFF RAMP)

TEMPORARY 24 INCH STOP BAR
DURABLE 24 INCH STOP BAR (OPTION BID ITEM)
STA 129+17 TO 129+39 LT (I-91 SB OFF RAMP)

TEMPORARY CROSSWALK MARKING, PAINT
DURABLE CROSSWALK MARKING (OPTION BID ITEM)
STA 2010+41 TO 2010+66 RT

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)
STA 126+75 TO 126+85 LT
STA 126+75 TO 126+85 LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA 2009+75 RT
STA 2011+25 RT

PAINTED CURB
STA 128+78 TO 129+08 LT & RT
STA 129+95 TO 130+25 LT & RT

TEMPORARY LETTER OR SYMBOL, PAINT
STA 127+12 RT (RIGHT ARROW)
STA 127+90 RT (RIGHT ARROW)
STA 128+67 RT (RIGHT ARROW)
STA 129+28 LT (STOP)
STA 129+95 LT (LEFT ARROW)
STA 130+75 LT (LEFT ARROW)
STA 131+54 LT (LEFT ARROW)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)
STA 127+00 RT (ONLY)
STA 127+12 RT (RIGHT ARROW)
STA 127+75 RT (ONLY)
STA 127+90 RT (RIGHT ARROW)
STA 128+55 RT (ONLY)
STA 128+67 RT (RIGHT ARROW)
STA 129+28 LT (STOP)
STA 129+95 LT (LEFT ARROW)
STA 130+75 LT (LEFT ARROW)
STA 131+54 LT (LEFT ARROW)

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE (OPTION BID ITEM)
STA 126+75 TO 129+00 LT (SOLID)
STA 126+75 TO 129+00 RT (SOLID)
STA 129+95 CL TO 132+25 LT (SOLID)
STA 129+95 TO 132+25 RT (SOLID)

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE (OPTION BID ITEM)
STA 126+85 TO 129+17 LT (SOLID)
STA 126+75 TO 127+00 RT (BROKEN)
STA 126+75 TO 129+18 RT (SOLID)
STA 127+00 TO 128+75 RT (SOLID)
STA 129+36 TO 132+25 RT (SOLID)
STA 129+39 TO 132+25 LT (SOLID)
STA 129+95 TO 131+75 LT (SOLID)
STA 131+75 TO 132+25 LT (DASHED)

FOR I-91 PAVEMENT MARKINGS SEE PAVEMENT MARKING PLAN SHEETS 1-19

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 22		SHEET	406 OF 922

TEMPORARY 4 INCH YELLOW LINE
DURABLE 4 INCH YELLOW LINE (OPTION BID ITEM)
132+25 TO 135+75 LT (SOLID)
132+25 TO 135+75 RT (SOLID)
136+65 TO 137+50 LT (SOLID)
136+65 TO 137+50 RT (SOLID)

TEMPORARY 4 INCH WHITE LINE
DURABLE 4 INCH WHITE LINE (OPTION BID ITEM)
132+25 TO 135+89 LT (SOLID)
132+25 TO 133+04 LT (DASHED)
132+25 TO 136+31 RT (SOLID)
132+55 TO 134+00 RT (DASHED)
134+00 TO 135+75 RT (SOLID)
137+03 TO 137+50 LT (SOLID)
136+62 TO 137+50 RT (SOLID)

TEMPORARY LETTER OR SYMBOL, PAINT
134+13 RT (LEFT ARROW)
134+90 RT (LEFT ARROW)
135+67 RT (LEFT ARROW)
210+50 LT (LEFT ARROW)
210+50 RT (RIGHT ARROW)
211+41 LT (LEFT ARROW)
211+41 RT (RIGHT RROW)
211+54 (STOP BAR)

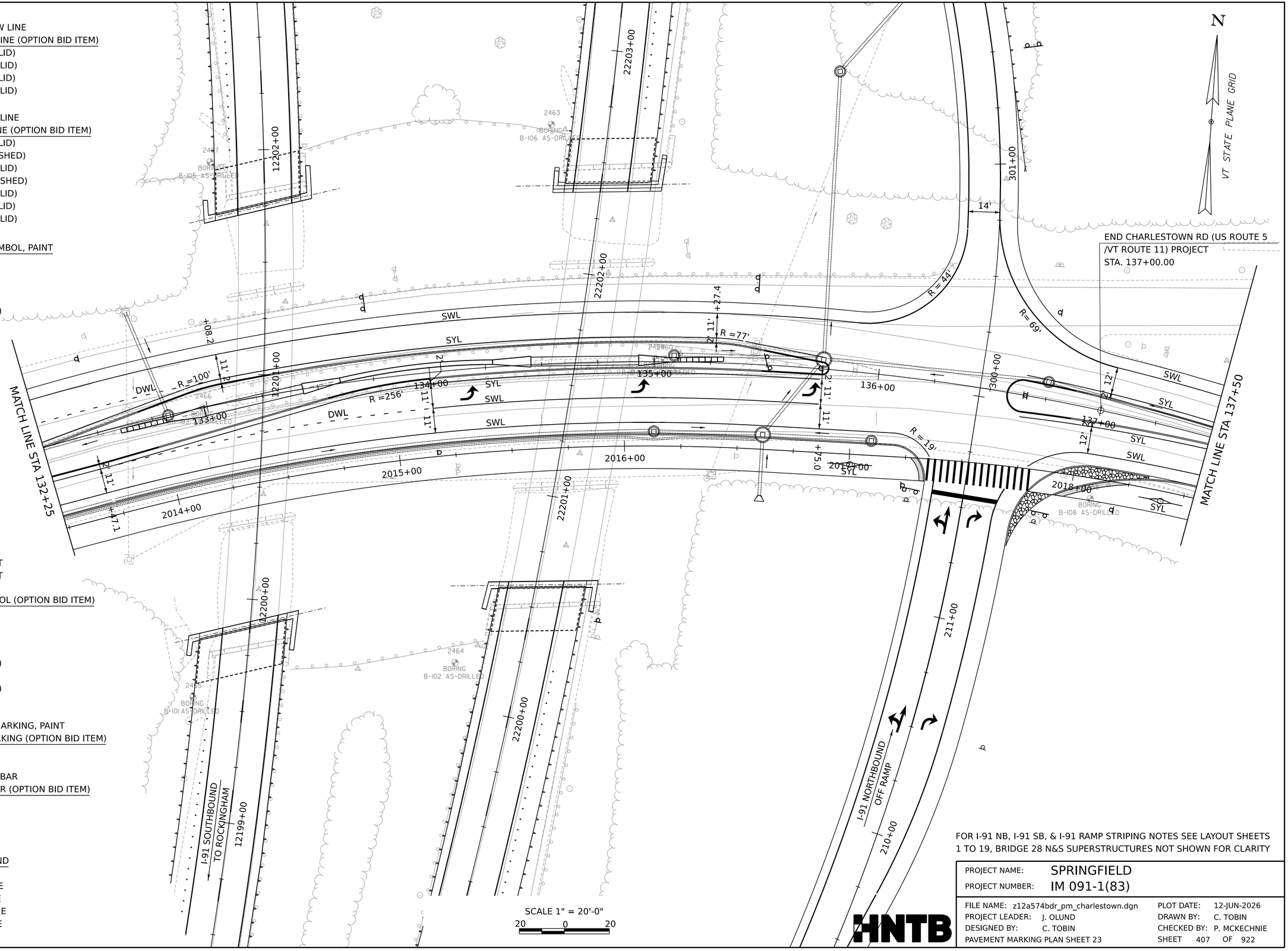
PAINTED CURB
132+25 TO 132+50 RT
132+70 TO 133+30 LT
133+50 TO 134+00 RT
135+48 TO 135+78 LT & RT
136+58 TO 136+88 LT & RT

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)
134+13 RT (LEFT ARROW)
134+90 RT (LEFT ARROW)
135+67 RT (LEFT ARROW)
210+50 LT (LEFT ARROW)
210+50 RT (RIGHT ARROW)
211+41 LT (LEFT ARROW)
211+41 RT (RIGHT ARROW)

TEMPORARY CROSSWALK MARKING, PAINT
DURABLE CROSSWALK MARKING (OPTION BID ITEM)
2017+33 TO 2017+85 RT

TEMPORARY 24 INCH STOP BAR
DURABLE 24 INCH STOP BAR (OPTION BID ITEM)
211+54

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE



FOR I-91 NB, I-91 SB, & I-91 RAMP STRIPING NOTES SEE LAYOUT SHEETS 1 TO 19, BRIDGE 28 N&S SUPERSTRUCTURES NOT SHOWN FOR CLARITY

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

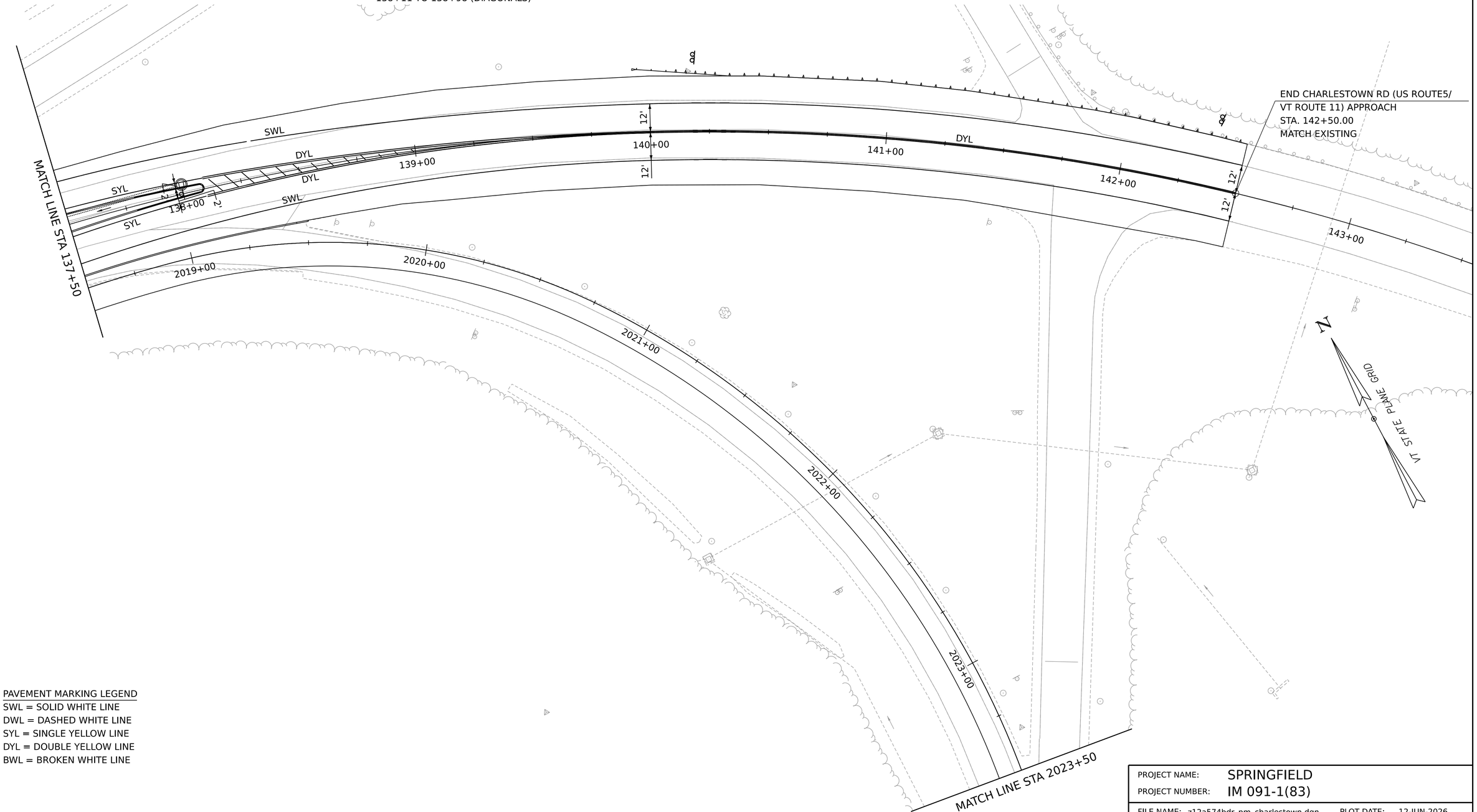
FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 23		SHEET	407 OF 922

HNTB

TEMPORARY 4 INCH YELLOW LINE
DURABLE 4 INCH YELLOW LINE (OPTION BID ITEM)
137+50 TO 138+09 LT (SOLID)
137+50 TO 138+09 RT (SOLID)
138+09 TO 140+00 LT (DOUBLE)
138+09 TO 140+00 RT (DOUBLE)
140+00 TO 142+50 CL (DOUBLE)
138+11 TO 138+98 (DIAGONALS)

TEMPORARY 4 INCH WHITE LINE
DURABLE 4 INCH WHITE LINE (OPTION BID ITEM)
137+50 TO 142+50 LT (SOLID)
137+50 TO 142+50 RT (SOLID)

PAINTED CURB
STA 137+79 TO 138+09 LT & RT



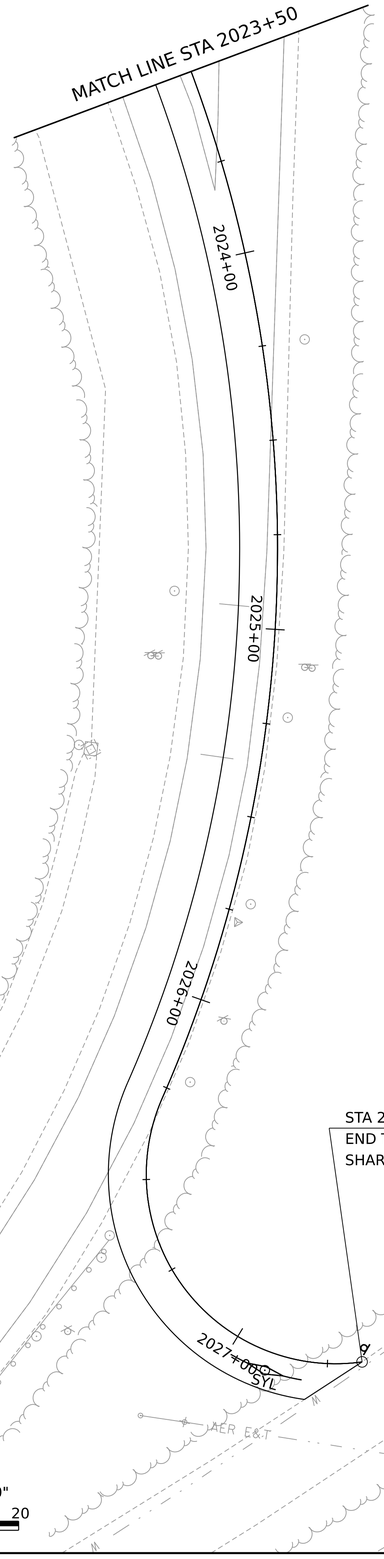
PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE

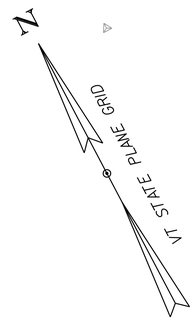
SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
PAVEMENT MARKING PLAN SHEET 24		SHEET 408	OF 922

TEMPORARY 4 INCH YELLOW LINE, PAINT
STA 2027+10 RT





SCALE 1" = 20'-0"
20 0 20

PAVEMENT MARKING LEGEND
SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
PAVEMENT MARKING PLAN SHEET 25		SHEET	409 OF 922

PAVEMENT MARKING LEGEND

SWL = SOLID WHITE LINE
DWL = DASHED WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
BWL = BROKEN WHITE LINE

N

VT STATE PLANE GRID

906+00

END SPENCER BROOK
STREAM RELOCATION
STA. 905+50.00

905+00

904+00

903+00

902+00

901+00

900+00

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 900+75.00

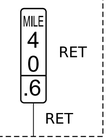
2462
BORING
B-III AS-DRILLED

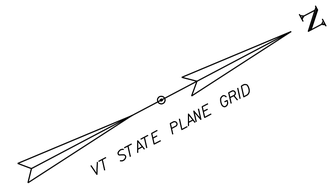
SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_pm_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
PAVEMENT MARKING PLAN SHEET 26		SHEET	410 OF 922

STA 12143+46 LT





I-91 SOUTHBOUND
TO ROCKINGHAM

12141+00 12142+00 12143+00 12144+00 12145+00 12146+00

MATCH LINE STA 12146+25

BEGIN I-91 NORTHBOUND APPROACH
STA. 22143+00.00
MATCH EXISTING

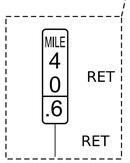
BOUND
RSFIELD

22141+00 22142+00 22143+00 22144+00 22145+00 22146+00

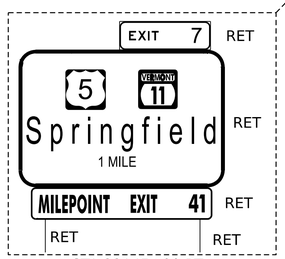
I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22146+25

8"ASH



STA 22143+49 RT



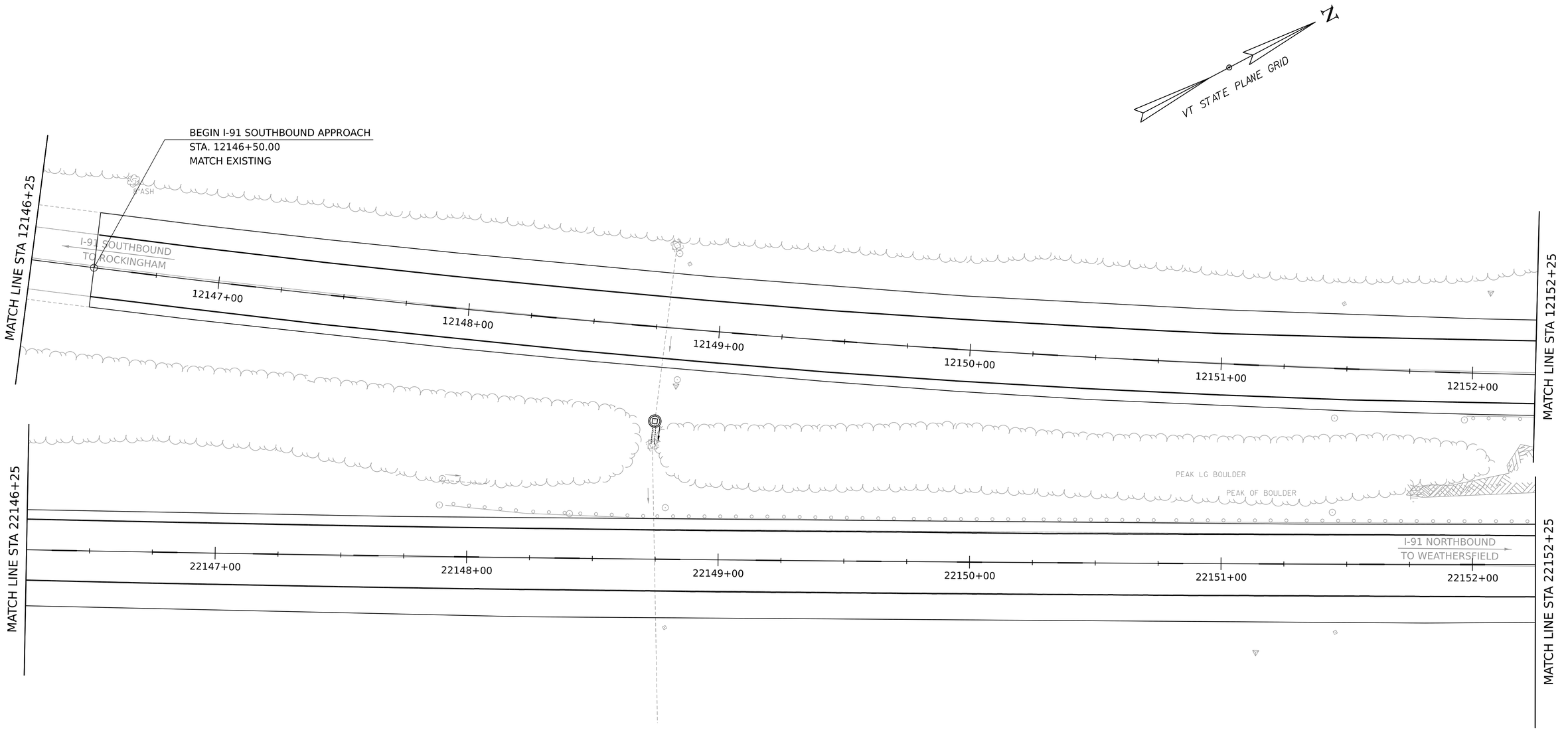
STA 22145+00 RT

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 1		SHEET	411 OF 922



SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 2		SHEET	412 OF 922

VT STATE PLANE GRID

STA 12154+58 LT

MILE 4 0 .8 RET RET

STA 12155+61 LT

Bellows Falls 10
Brattleboro 32
RET RET RET

MATCH LINE STA 12152+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12153+00 12154+00 12155+00 12156+00 12157+00 12158+00

MATCH LINE STA 12158+25

8"ASH
6"PINE(2)
4"POPLAR(2)
4"POPLAR
4"POPLAR
BIRCH CLUMP
5"POPLAR
BIRCH
8"POPLAR
4"POPLAR

AER E&T

MATCH LINE STA 22152+25

I-91 NORTHBOUND
TO WEATHERSFIELD

22153+00 22154+00 22155+00 22156+00 22157+00 22158+00

AER E&T

LOW WIRE

187/235/11

MILE 4 0 .8 RET RET

STA 22154+09 RT

Charlestown NH
EXIT 7
RET
The Fort at No. 4 RET
RET RET

STA 22156+46 RT

SCALE 1" = 20'-0"
20 0 20

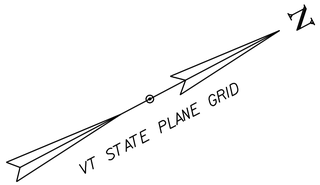
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 3		SHEET	413 OF 922

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 6

RESETTING SIGNS
AS SHOWN - 5

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 1

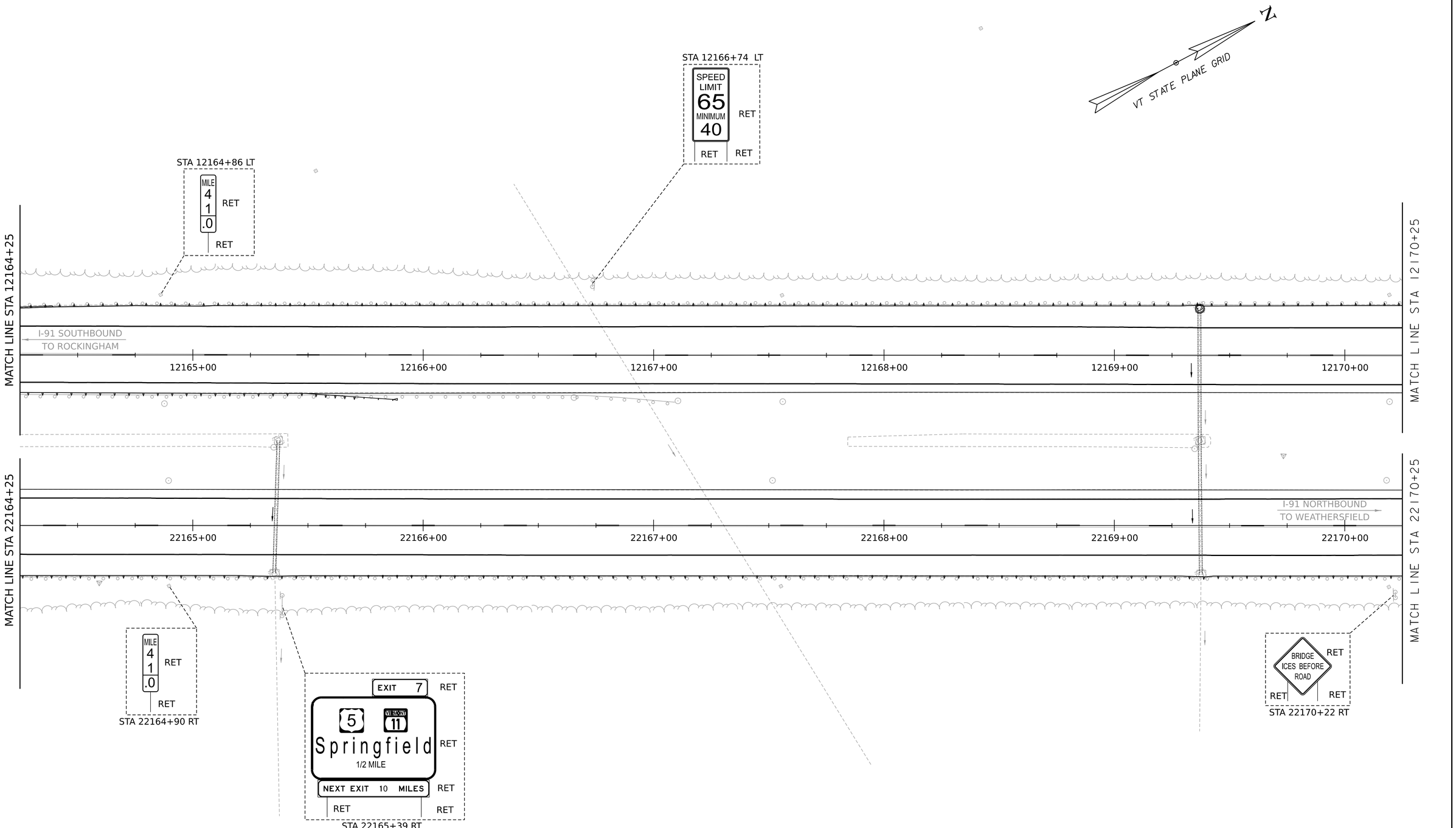


SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 4		SHEET	414 OF 922



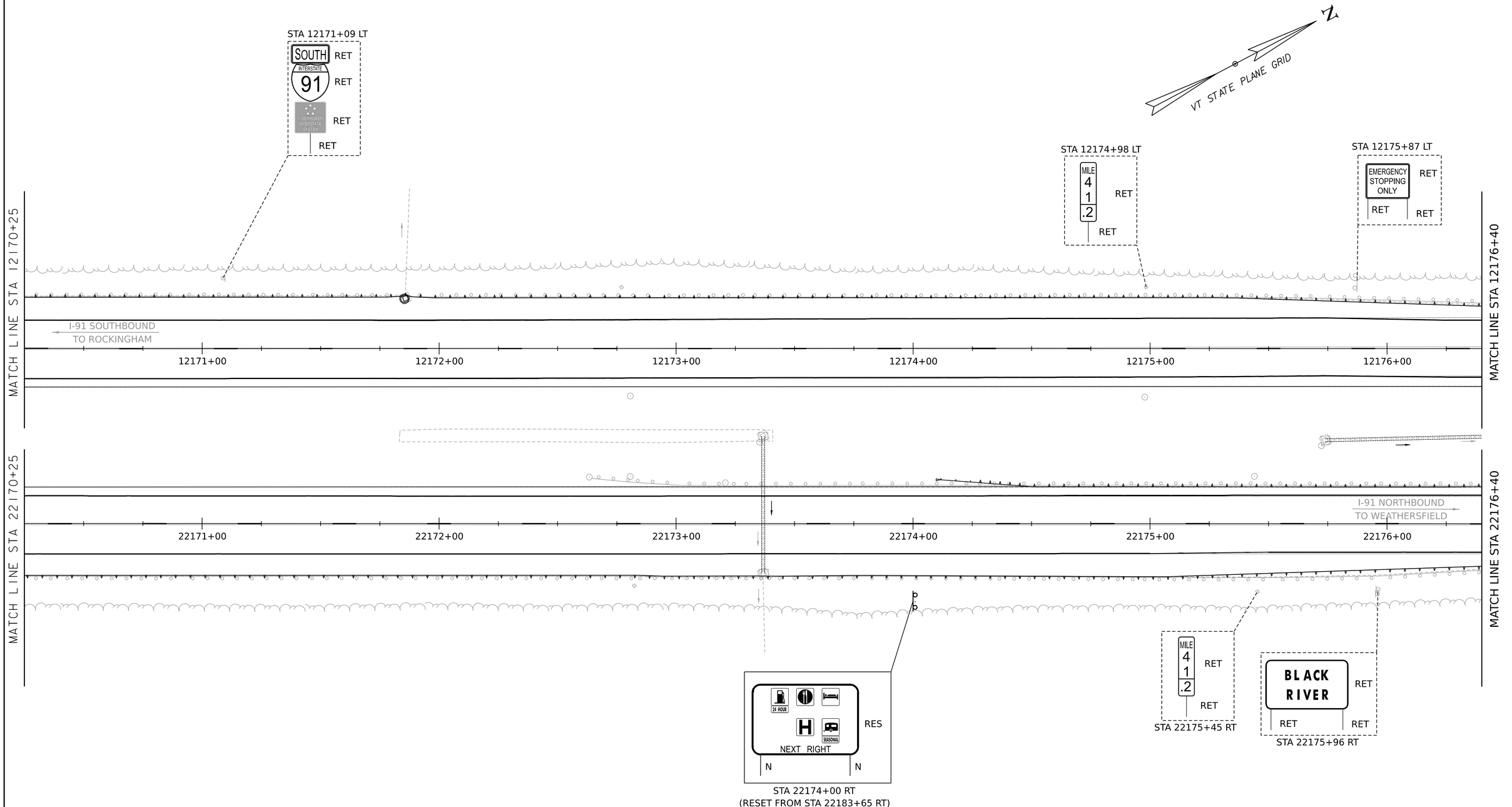
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 5	SHEET 415 OF 922

RESETTING SIGNS
AS SHOWN - 1



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 6		SHEET 416	OF 922

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 7

RESETTING SIGNS
AS SHOWN - 9

RESUME I-91 SOUTHBOUND PROJECT
STA. 12176+75.00

BEGIN BRIDGE 26S
STA. 12177+29.57

MATCH LINE STA 12176+40

I-91 SOUTHBOUND
TO ROCKINGHAM

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

800+00 801+00 802+00 803+00

BLACK RIVER

STA 12180+69 RT
R
R

END BRIDGE 26S
STA. 12180+42.07

STA 12180+73 LT
R&RES
R

STA 12180+73 LT
RES
N

STA 12180+82 LT
BRIDGE 26 S I-91
R&RES
R

STA 12180+82 LT
BRIDGE 26 S I-91
RES
N

STA 12182+10 LT
BLACK RIVER
RES
N N

STA 12182+10 LT
BLACK RIVER
R&RES
R R

STOP I-91 SOUTHBOUND PROJECT
STA. 12181+00.00

VT STATE PLANE GRID
N

MATCH LINE STA 12182+50

STOP I-91 NORTHBOUND PROJECT
STA. 22181+00.00

I-91 NORTHBOUND
TO WEATHERSFIELD

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

MATCH LINE STA 22176+40

A B C

STA 22177+03 LT
A
R
R

STA 22177+05 RT
B
BRIDGE 26N I-91
R&RES
R

STA 22177+05 RT
BRIDGE 26N I-91
RES
N

STA 22177+05 RT
C
R&RES
R

STA 22177+05 RT
RES
N

BEGIN BRIDGE 26N
STA. 22177+29.50

RESUME I-91 NORTHBOUND PROJECT
STA. 22176+75.00

END BRIDGE 26N
STA. 22180+42.00

EXIT 7
5
VERMONT 11
Springfield
RES
RES
N N

STA 22182+00 RT
(RESET FROM STA 22198+88 RT)

SCALE 1" = 20'-0"
20 0 20

HNTB

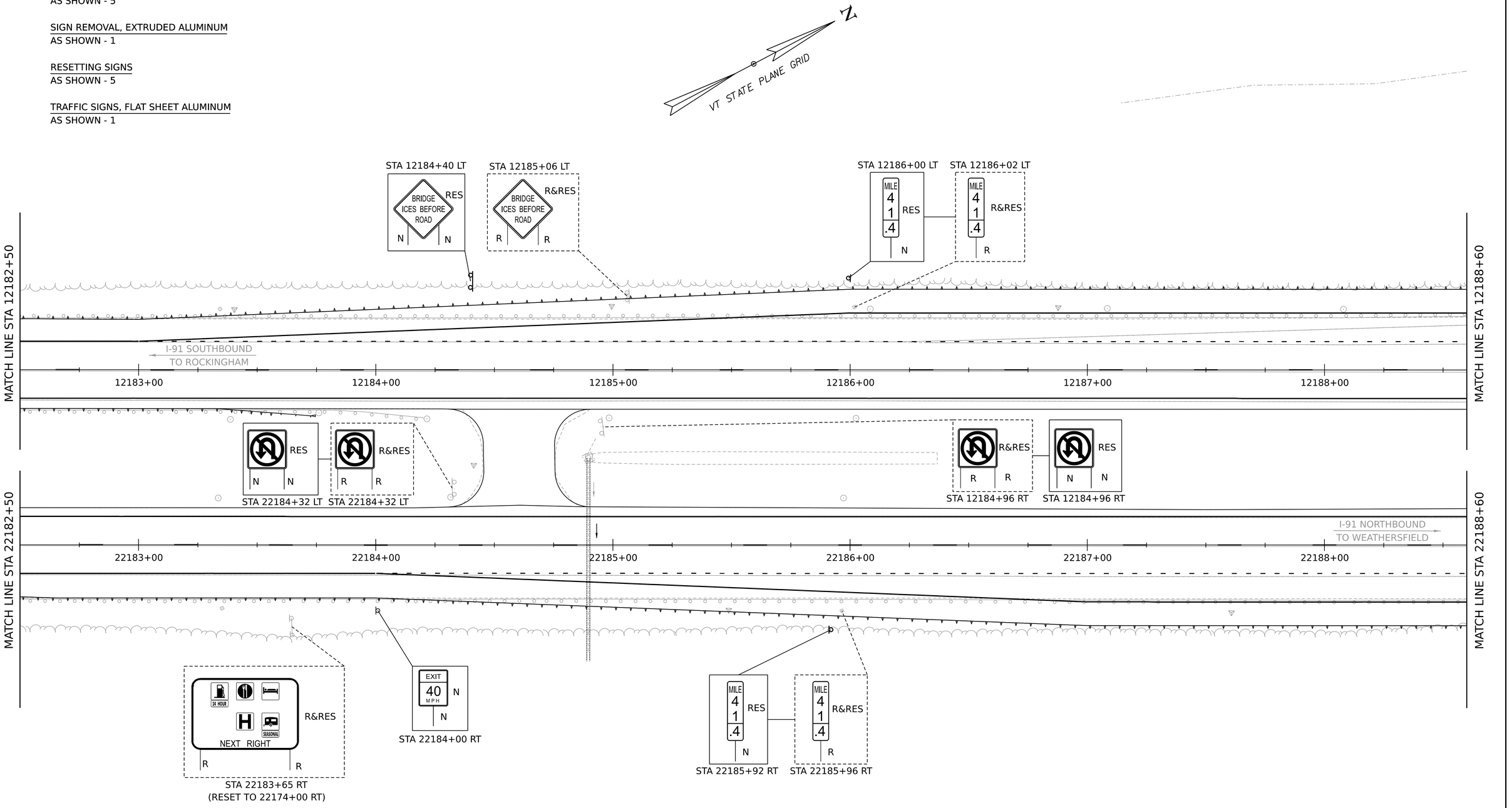
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 7		SHEET	417 OF 922

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 5

SIGN REMOVAL, EXTRUDED ALUMINUM
AS SHOWN - 1

RESETTING SIGNS
AS SHOWN - 5

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 1



SCALE 1" = 20'-0"
20 0 20

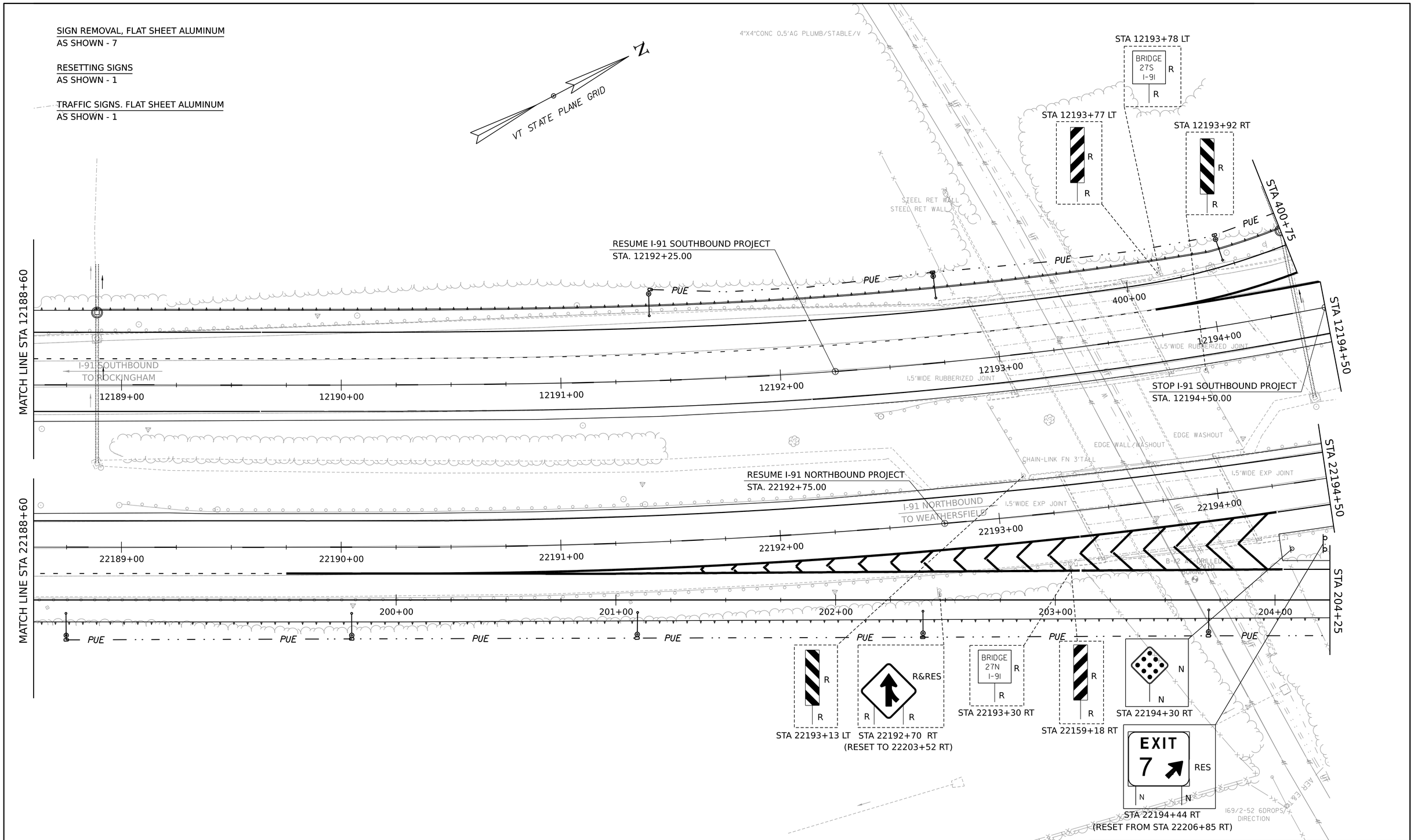
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 8	SHEET 418 OF 922

HNTB

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 7

RESETTING SIGNS
AS SHOWN - 1

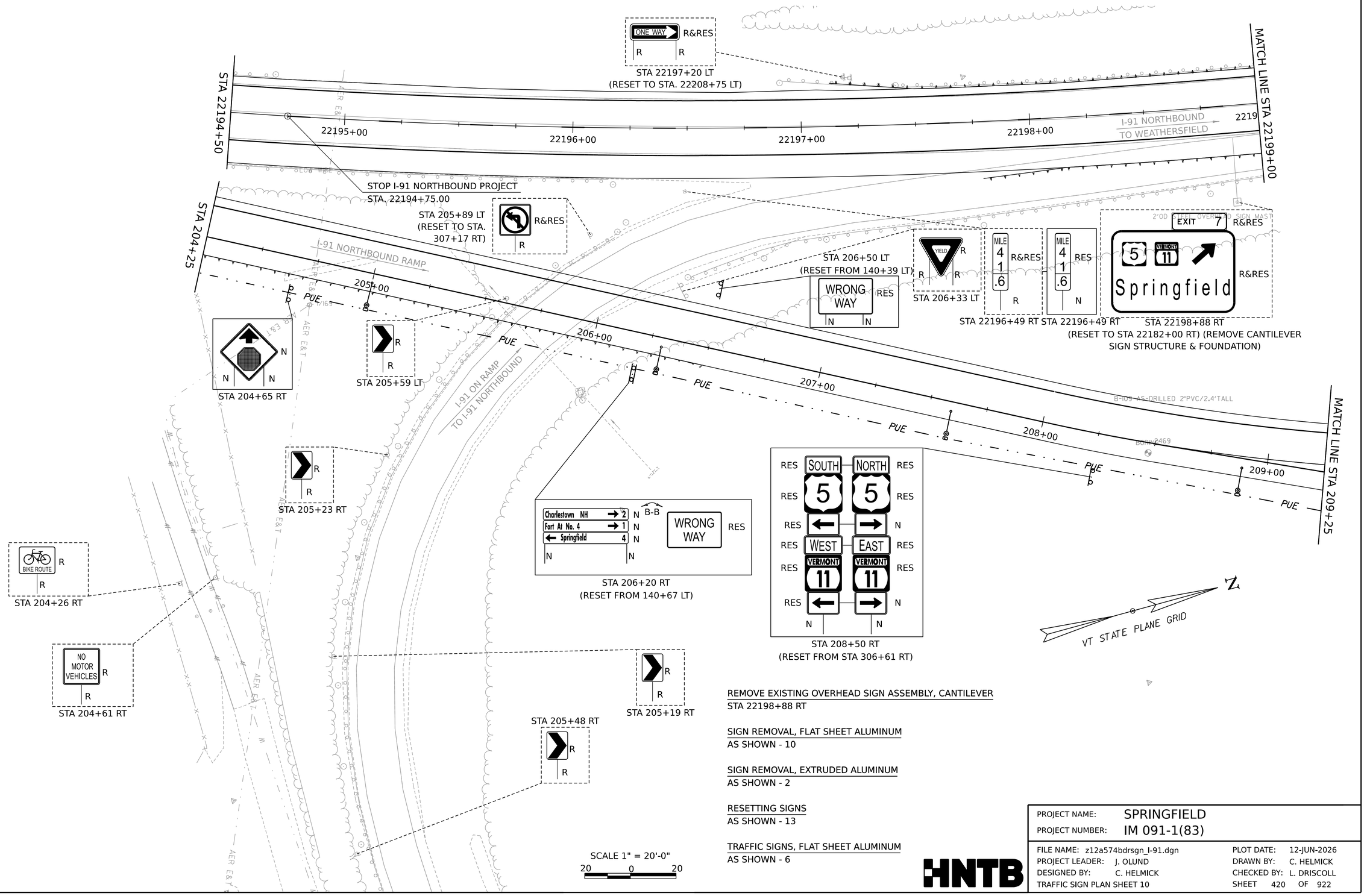
TRAFFIC SIGNS. FLAT SHEET ALUMINUM
AS SHOWN - 1



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 9	SHEET 419 OF 922



REMOVE EXISTING OVERHEAD SIGN ASSEMBLY, CANTILEVER
STA 22198+88 RT

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 10

SIGN REMOVAL, EXTRUDED ALUMINUM
AS SHOWN - 2

RESETTING SIGNS
AS SHOWN - 13

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 6

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 10	SHEET 420 OF 922

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 209+25

MATCH LINE STA 303+25

9+00

22200+00

22201+00

22202+00

22203+00

22204+00

I-91 NORTHBOUND
TO WEATHERSFIELD

1.5"WIDE STEEL EXP JOINT

1.5"WIDE STEEL EXP JOINT

B-102 AS-DRILLED
BORING 2464

B-103 AS-DRILLED
BORING 2463

B-104 AS-DRILLED
BORING 2462

B-107 AS-DRILLED
BORING 2461

B-108 AS-DRILLED
BORING 2460

18"MAPLE

5"POPLAR

5"POPLAR

8"POPLAR

PUE

PUE

PUE

STA 22206+85 RT
(RESET TO STA 22194+44 RT)

EXIT 7 R&RES
R R

STA 22206+38 RT
R
R

STA 22207+02 RT
MILE 4 1 .8 R&RES
R

STA 22207+02 RT
MILE 4 1 .8 RES
N

STA 22208+75 LT
(RESET FROM STA 22197+20 LT)
ONE WAY RES
N N

MATCH LINE STA 22204+75

22205+00
22206+00
22207+00
22208+00
22209+00
22210+00

END I-91 NORTHBOUND PROJECT
STA. 22208+50.00

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22210+50

MATCH LINE STA 303+25

I-91 NORTHBOUND ON RAMP
TO WEATHERSFIELD

304+00
305+00
306+00
307+00
308+00
309+00

PUE

STA 306+40 RT
R
R

RES
N
STA 307+17 RT
(RESET FROM STA. 205+89 LT)

MATCH LINE STA 309+25

I-91 OFF RAMP
TO CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)

SPENCER BROOK

STA 22206+21 RT
R
R 25 MPH R
R R

STA 306+23 RT
R
R R

4"X4"POST, TYP. TO BE PLUMB/STABLE/VTH

4"X4"C

STA 306+79 RT
R
R

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 909+25.00

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 35

ORANGE SEEP

SIGN REMOVAL, EXTRUDED ALUMINUM
AS SHOWN - 1

RESETTING SIGNS
AS SHOWN - 3

VT STATE PLANE GRID
N

SCALE 1" = 20'-0"
20 0 20

R&RES NORTH SOUTH R&RES
R&RES 5 5 R&RES
R&RES R
R&RES EAST WEST R&RES
R&RES VERMONT 11 VERMONT 11 R&RES
R&RES R
R R
STA 306+61 RT
(RESET TO STA 208+50 RT)

EXISTING SIGNS ALONG NORTHBOUND OFF RAMP
(7) R
R
GAS / DISEL 24 HRS R
2 FOOD R
LODGING R
HOSPITAL 5 R
CAMPING 5 R
R R
R Charlestown NH 2
R Fort At No. 4 1
Springfield 4
R R

STA 307+01 RT
R
R

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdrsgn_I-91.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN PLAN SHEET 12

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 422 OF 922

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

SPENCER BROOK

SPENCER BROOK

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 5

RESETTING SIGNS
AS SHOWN - 1

MATCH LINE STA 22210+50

22211+00

22212+00

22213+00

22214+00

22215+00

22216+00

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22216+50

MATCH LINE STA 309+25

310+00

311+00

PUE

PUE

PUE

BRIDGE
28-IN
I-91
R&RES
R
STA 309+64 LT

EMERGENCY
STOPPING
ONLY
R&RES
R
R
STA 22211+83 RT
(RESET TO STA 22223+00 RT)

9"CHERRY

NORTH
INTERSTATE
91
EISENHOWER
INTERSTATE
SYSTEM
R&RES
R&RES
R&RES
R
STA 22215+73 RT
(RESET TO STA 22228+00 RT)

BRIDGE
28-IN
I-91
RES
N
STA 309+60 LT

)NC 0.5'AG PLUMB/STABLE/V

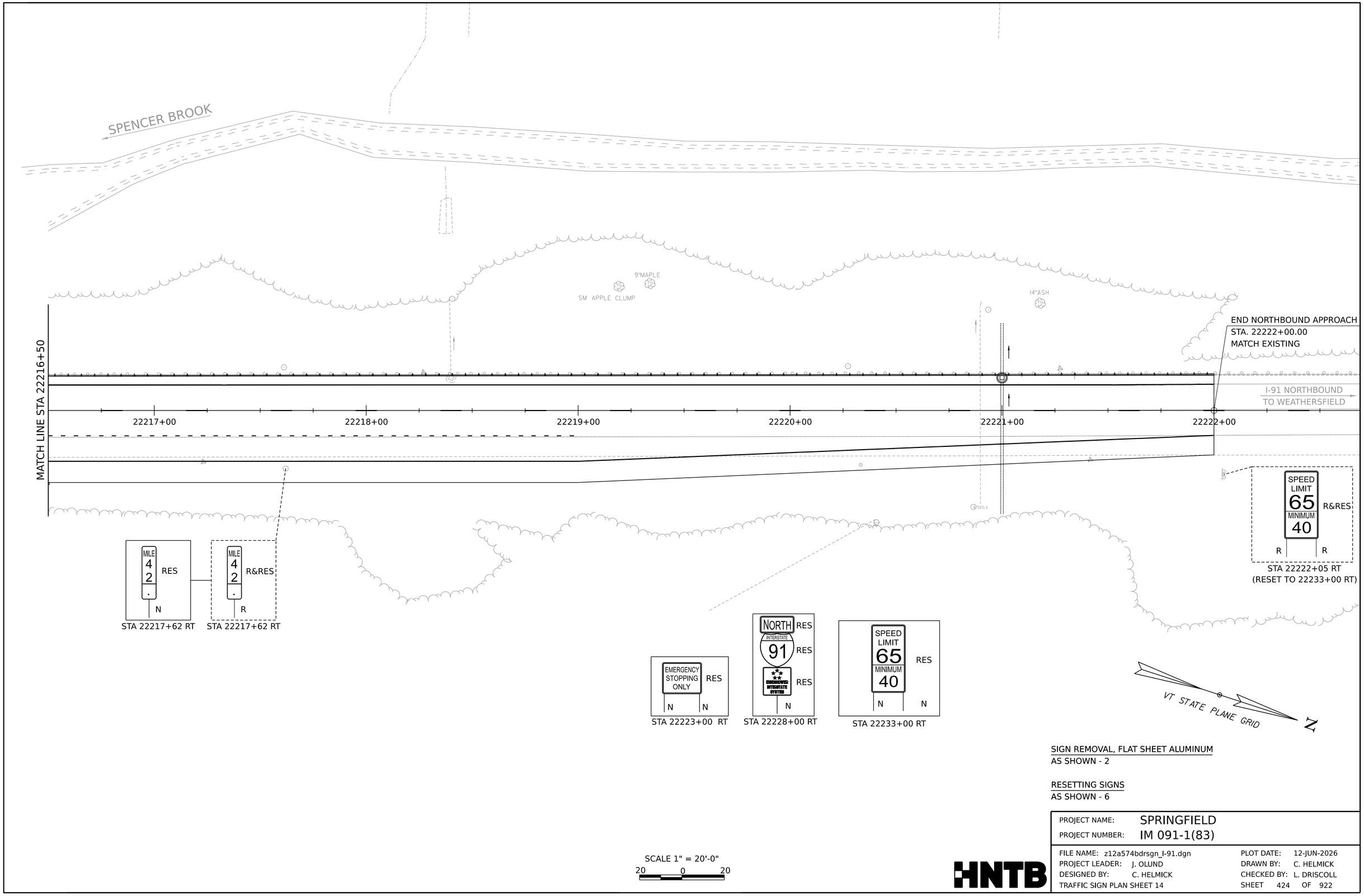
VT STATE PLANE GRID

N

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 13		SHEET	423 OF 922



SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 2

RESETTING SIGNS
AS SHOWN - 6

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 14		SHEET	424 OF 922

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 5

RESETTING SIGNS
AS SHOWN - 4

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 1

VT STATE PLANE GRID

STA 404+75 LT
PROHIBITED PEDESTRIANS HITCHHIKERS STOPPING FOR WIDMERS ANIMALS BICYCLES FARM MACHINERY SNOW VEHICLES — RES
TURN SIGNAL REQUIRED BEFORE CHANGING LANES — RES
N N

STA 404+38 LT
YIELD R
R

STA 403+27 LT
PROHIBITED PEDESTRIANS HITCHHIKERS STOPPING FOR WIDMERS ANIMALS BICYCLES FARM MACHINERY SNOW VEHICLES — R&RES
TURN SIGNAL REQUIRED BEFORE CHANGING LANES — R&RES
R R

STA 401+35 LT
RES
N

STA 401+47 LT
R&RES
R

STA 12196+38 LT
N
N N

STA 12194+75 RT
ONE WAY — RES
N N

STA 12194+85 RT
ONE WAY — R&RES
R R

STA 400+75
401+00
402+00
403+00
404+00
405+00
12195+00
12196+00
12197+00
12198+00
MATCH LINE STA 12198+75
STA 12194+50

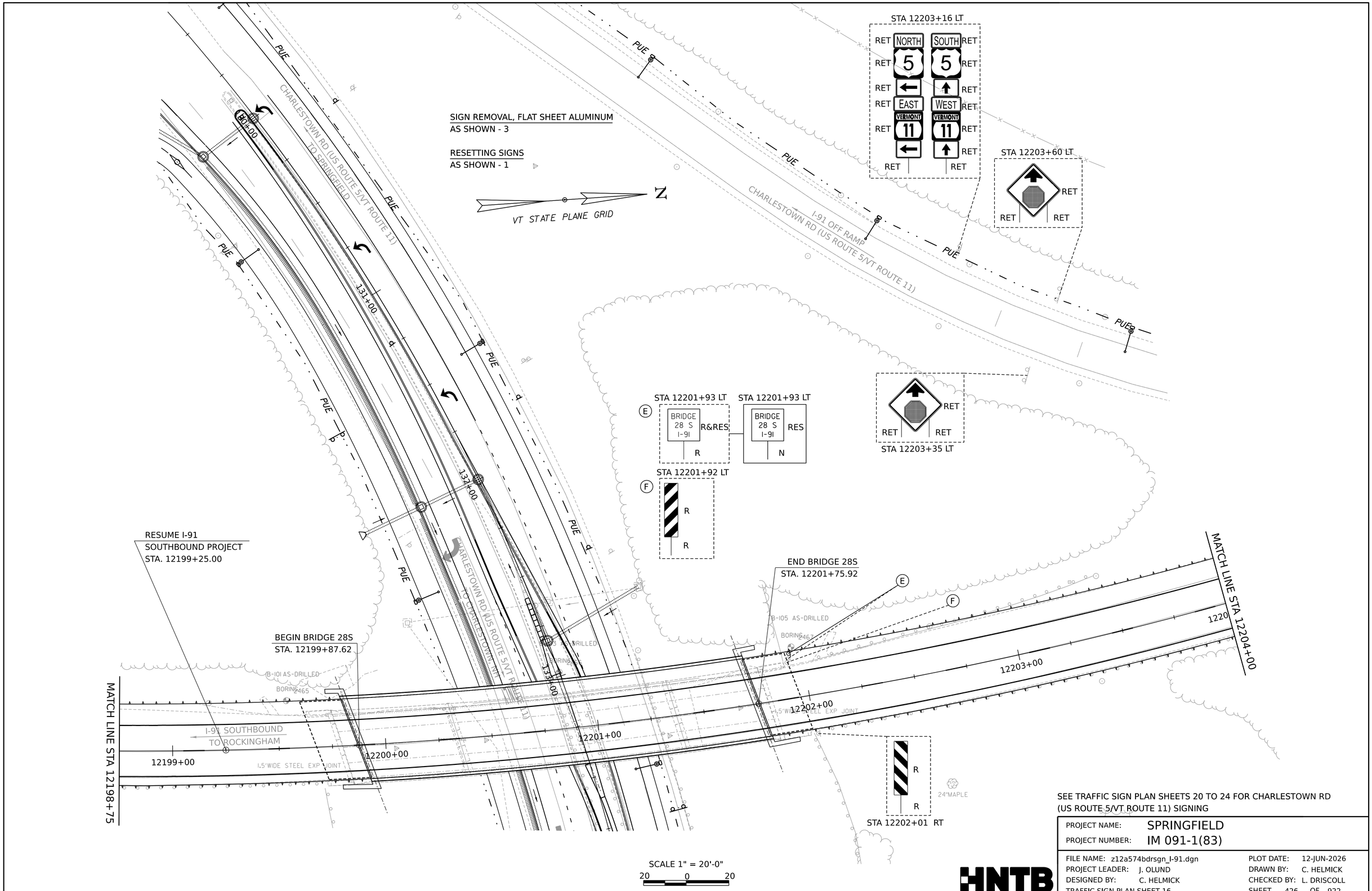
PUE
AER E&T
I-91 ON RAMP TO I-91 SOUTHBOUND
I-91 SOUTHBOUND TO ROCKINGHAM
BLACK LOCUST BORE
IRON PIPE
IRON PIN
IRON PIN & CAP
IRON ROD
IRON PIPE & CAP
IRON ROD & CAP
DRILL HOLE
BOUND
BLACK OAK

SCALE 1" = 20'-0"
20 0 20

SEE TRAFFIC SIGN PLAN SHEETS 20 TO 24 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) SIGNING

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 15	SHEET 425 OF 922



SEE TRAFFIC SIGN PLAN SHEETS 20 TO 24 FOR CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) SIGNING

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 16		SHEET	426 OF 922

HNTB

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 3

RESETTING SIGNS
AS SHOWN - 2

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 1

VT STATE PLANE GRID

N

EXIT 7 RET
RET RET
STA 12205+28 LT

STA 12205+65 LT
RET
RET

RAMP 40 M.P.H. R
R R
R&RES
WRONG WAY
B-B
STA 12207+69 LT

EXIT 40 MPH N
RES
WRONG WAY
B-B
MOUNT TO PROPOSED LIGHT STANDARD
STA 12207+70 LT

END I-91 SOUTHBOUND PROJECT
STA. 12204+50.00

PUE

I-91 OFF RAMP
CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

BEVELED

2"PINE

MATCH LINE STA 12204+00

I-91 SOUTHBOUND
TO ROCKINGHAM

12204+00
12205+00
12206+00
12207+00
12208+00
12209+00

MATCH LINE STA 12209+50

WRONG WAY R&RES
R R
STA 12207+67 RT

WRONG WAY RES
N N
STA 12207+67 RT

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 17		SHEET	427 OF 922

VT STATE PLANE GRID

N

EXIT 7 RET

5 VERMONT 11

Springfield

1 MILE RET

MILEPOINT EXIT 41 RET

RET RET

STA 12211+92 LT

PUE

I-91 SOUTHBOUND
TO ROCKINGHAM

MATCH LINE STA 12209+50

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

MATCH LINE STA 12215+30

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

SPENCER BROOK

SPENCER BROOK

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 18		SHEET 428	OF 922

VT STATE PLANE GRID

N

STA 12216+56 LT

MILE 42.0 RET

RET

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdrsgn_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 19		SHEET 429	OF 922

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 25

N

VT STATE PLANE GRID

STA 116+66 LT
SPEED LIMIT 40 RET
RET

STA 118+38 LT
WEST VERMONT 11 RET
TO VERMONT 106 RET
RET RET

RET(3) RET(3) RET(7)
EAST VERMONT 11
NORTH 5
TO INTERSTATE 91
SOUTH 5
RET RET RET
STA 117+97 RT

STA 119+48 LT
R&RES
B-B R&RES
R&RES R

STA 119+89 RT
R&RES
B-B R&RES
R&RES R

STA 121+47 LT
ONLY RET
RET RET

PARK & RIDE RET
RET
STA 120+71 LT

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

I455 BND 4'X4' THD CONC UP 6"

PUE
UE
AER E&T

116+00
117+00
118+00
119+00
1119+00
1118+00
120+00
121+00
2001+00
2002+00
1998+00
1999+00
2000+00

MATCH LINE STA 121+50

STA 121+49 RT
(RESET TO STA 121+56 RT)
SPEED LIMIT 40 R&RES
R

STA 119+90 RT
(RESET TO STA 120+07 RT)
R&RES NORTH 5 R&RES
R&RES EAST VERMONT 11 R&RES
R&RES JCT INTERSTATE 91 R&RES
R RIVER BYWAY R
R R

STA 1118+26 RT
STOP R
R

STA 1118+02 RT
(RESET TO STA 405+37 RT)
STOP R&RES
R

STA 1118+02 RT
STOP AHEAD R
R

STA 1116+56 RT
PARK & RIDE RET
RET

STA 117+23 RT
ONLY RET
RET RET

STA 1998+75.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

STA 1118+13 LT
STOP R
R

STA 1118+33 LT
(RESET TO STA 1118+65 RT)
BIKE ROUTE R&RES
R&RES
R

STA 1118+02 LT
14'-0" RET
RET 1/2 MILE
RET RET

STA 1117+79 LT
PARK & RIDE RET
RET

STA 1117+43 LT
PROHIBITED RET
RET RET
RET

STA 1117+36 LT
NO TRUCKS OVER 12000 LBS EMPTY WT RET
RET

STA 1118+09 RT
STOP AHEAD R
R

STA 1118+02 RT
(RESET TO 2027+34 LT)
BIKE ROUTE R&RES
R
R

STA 1118+23 RT
STOP AHEAD R
R

STA 1118+05 RT
(RESET TO STA 405+35 LT)
STOP R&RES
R

SCALE 1" = 20'-0"
20 0 20

EXISTING SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574bdrsgn_charlestown.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
TRAFFIC SIGN PLAN SHEET 20A	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. HELMICK
CHECKED BY:	L. DRISCOLL
SHEET	430 OF 922

HNTB

N

VT STATE PLANE GRID

RESETTING SIGNS
AS SHOWN - 12

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 3

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

STA 120+25 RT
RES
B-B
RES
RES
RES
N

MATCH LINE STA 121+50

STA 121+25 RT
(RESET FROM STA 121+49)
SPEED LIMIT 40
RES
N

STA 120+15 RT
(RESET FROM STA 119+90 RT)
RES RES RES
JCT
NORTH
EAST
INTERSTATE 91
5
VERMONT 11
CONNECTICUT RIVER BYWAY
RES RES RES
N N N

STA 1118+72 RT
(MOUNT TO PEDESTAL POLE)
USE PED SIGNAL
N

STA 1118+55 RT
(RESET FROM STA 1118+33 LT)
BIKE ROUTE
RES
RES
N

STA 1118+50 LT
(MOUNT TO MAST ARM POLE)
USE PED SIGNAL
N

STA 1998+75.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

NOTE:
FOR MAST ARM MOUNTED SIGNS,
SEE TRAFFIC SIGNAL LAYOUT 1

SCALE 1" = 20'-0"
20 0 20

PROPOSED SIGNS

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdrsgn_charlestown.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN PLAN SHEET 20B

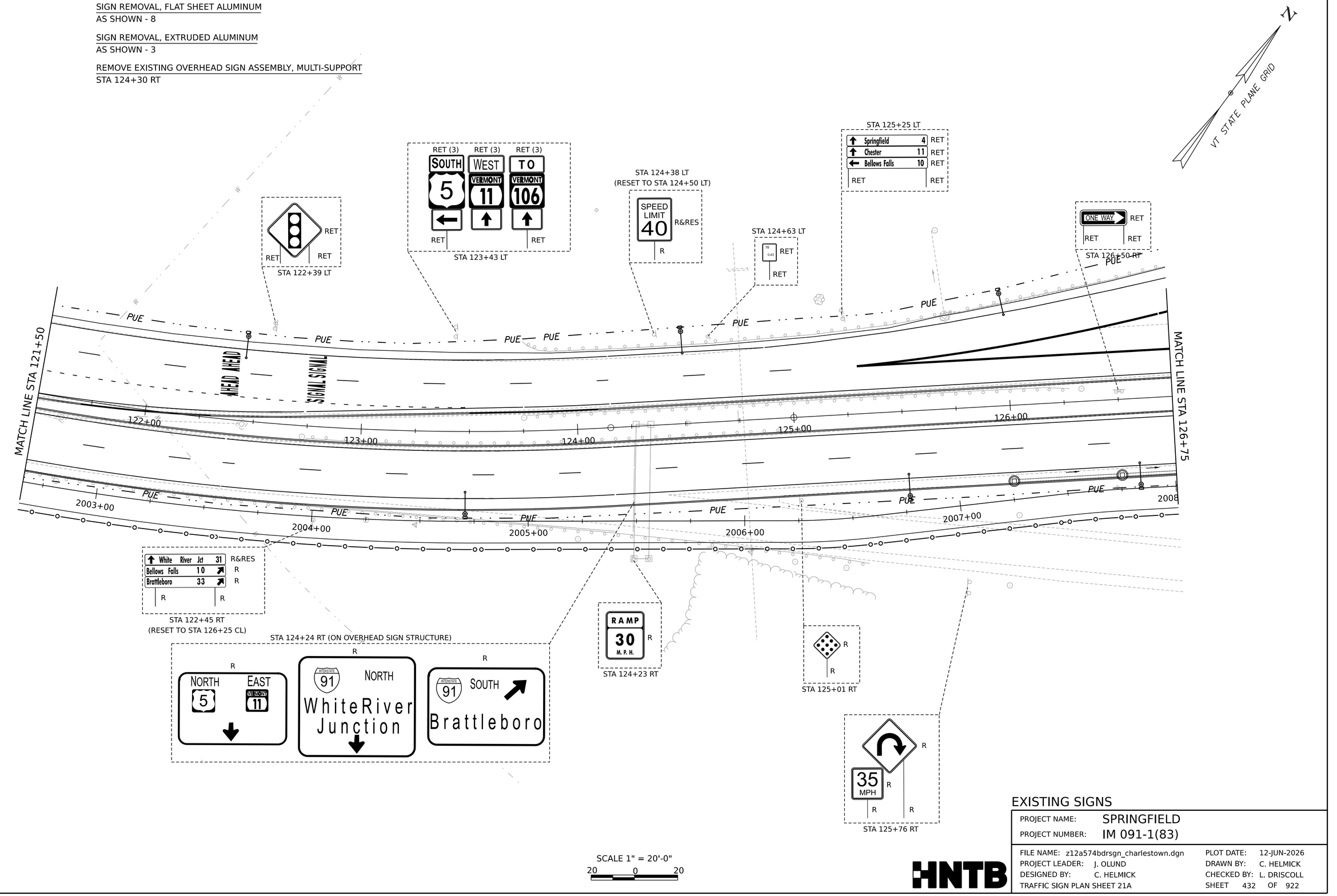
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 431 OF 922

HNTB

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 8

SIGN REMOVAL, EXTRUDED ALUMINUM
AS SHOWN - 3

REMOVE EXISTING OVERHEAD SIGN ASSEMBLY, MULTI-SUPPORT
STA 124+30 RT



SCALE 1" = 20'-0"
20 0 20

EXISTING SIGNS

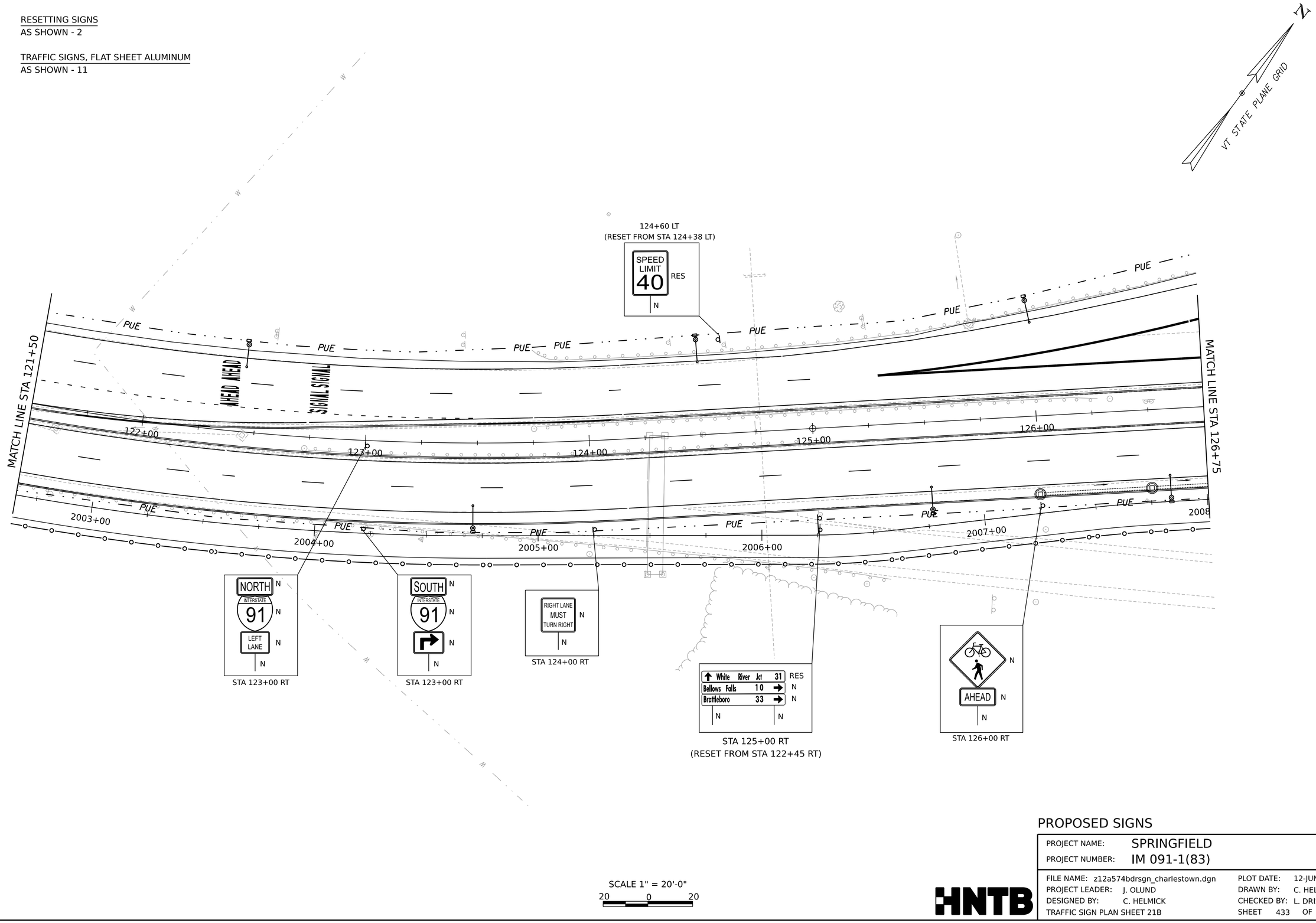
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 21A		SHEET	432 OF 922

HNTB

RESETTING SIGNS
AS SHOWN - 2

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 11



SCALE 1" = 20'-0"
20 0 20

PROPOSED SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 21B		SHEET	433 OF 922

HNTB

VT STATE PLANE GRID

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) PROJECT
STA. 129+00.00

STA 126+86 LT
RET
ONE WAY
DO NOT
ENTER
RET
RET

STA 126+89 LT
YIELD
R
R R

STA 127+92 LT
R
R R

STA 128+78 LT
R
R R

STA 129+10 LT
RET NORTH 5 SOUTH 5 RET
RET R RET
RET EAST 11 WEST 11 RET
RET VE. MONT VE. MONT RET
RET RET

STA 130+09 LT
RET
WRONG WAY
B-B
GAS / DISEL 24HRS RET
2 FOOD RET
LODGING RET
HOSPITAL 5 RET
CAMPING 5 RET
RET RET

STA 130+19 LT
WRONG WAY RET
RET RET

STA 129+52 LT
(RESET TO STA 129+48)
STOP R&RES
R

STA 129+49 LT
(RESET TO STA 129+47 LT)
R&RES R&RES R&RES
ONE WAY DO NOT ENTER ONE WAY
R R

STA 130+17 LT
(RESET TO STA 130+17 LT)
SOUTH R&RES
INTERSTATE 91 R&RES
R&RES
R

STA 129+25 LT
(RESET TO 129+00 LT)
R&RES
R&RES
B-B
R&RES R&RES
R R

STA 131+61 LT
ONLY R
R R
STA 131+75 LT

STA 127+28 RT
THRU TRAFFIC KEEP LEFT R
R

STA 127+63 RT
R
R R

STA 128+78 RT
(RESET TO 128+50 RT)
SOUTH R&RES
INTERSTATE 91 R&RES
R&RES
R

STA 129+87 RT
(RESET TO STA 129+97 RT)
R&RES
R&RES
R&RES
B-B R

STA 130+44 RT
(RESET TO STA 131+50 RT)
R&RES NORTH EAST R&RES NORTH R&RES
R&RES 5 VERMONT 11 R&RES INTERSTATE 91 R&RES
R LEFT LANE LEFT LANE R RIGHT LANE R
R R R

STA 132+14 RT
(RESET TO
STA 127+00 RT)
ONLY R&RES
R

Ⓐ STA 130+16 LT
RET
RET

Ⓑ STA 129+11 LT
(RESET TO 129+11 LT)
STOP R&RES
R

Ⓒ STA 129+07 LT
(RESET TO STA 129+09 LT)
R&RES R&RES R&RES
ONE WAY DO NOT ENTER ONE WAY
R R

MATCH LINE STA 126+75

MATCH LINE STA 132+25

SCALE 1" = 20'-0"
20 0 20

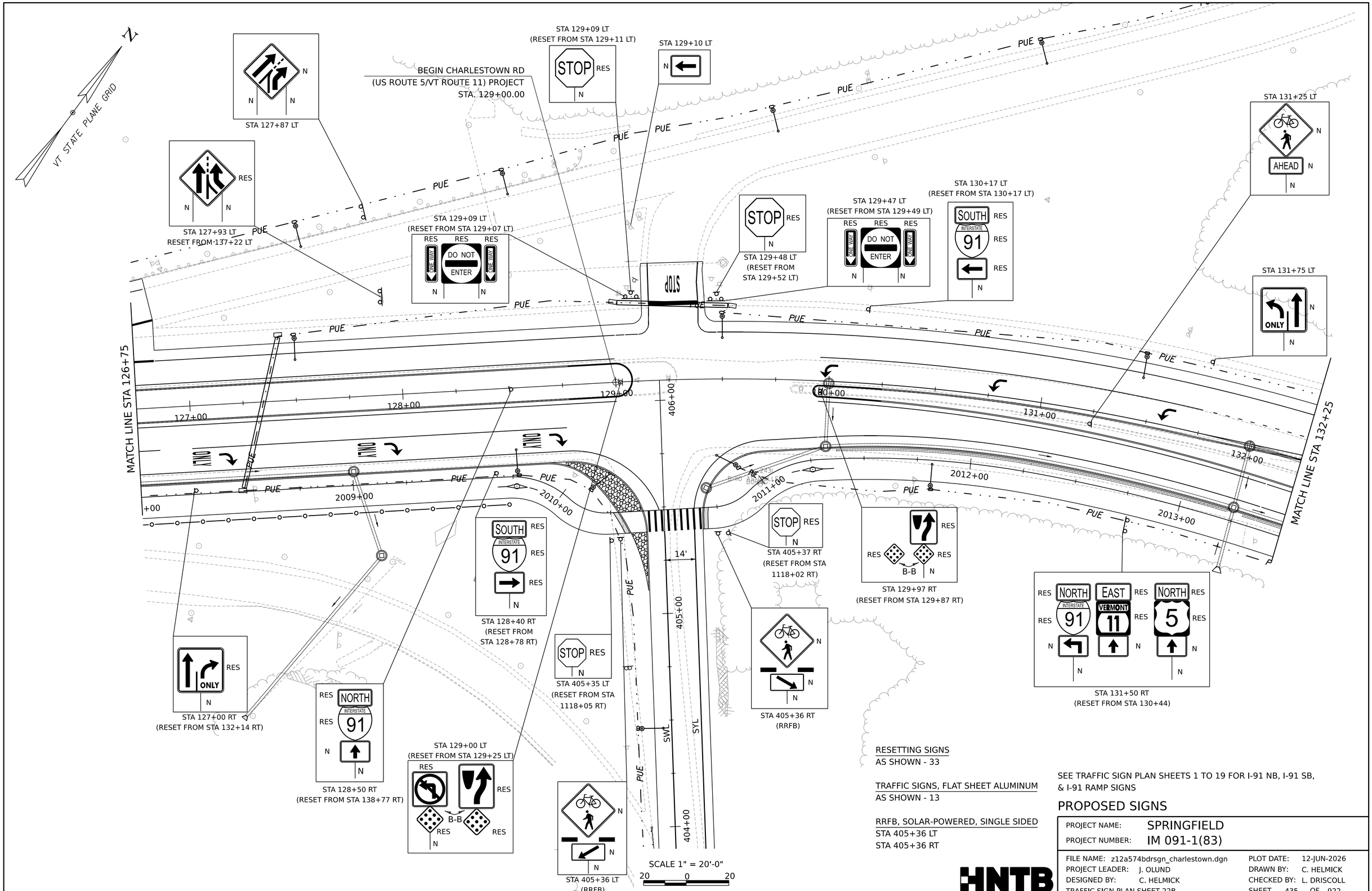
SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 38

SEE TRAFFIC SIGN PLAN SHEETS 1 TO 19 FOR I-91 NB, I-91 SB, & I-91 RAMP SIGNS

EXISTING SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 22A	SHEET 434 OF 922

HNTB



RESETTING SIGNS
AS SHOWN - 33

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 13

RRFB, SOLAR-POWERED, SINGLE SIDED
STA 405+36 LT
STA 405+36 RT

SEE TRAFFIC SIGN PLAN SHEETS 1 TO 19 FOR I-91 NB, I-91 SB, & I-91 RAMP SIGNS

PROPOSED SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 22B		SHEET 435	OF 922

HNTB

N

VT STATE PLANE GRID

MATCH LINE STA 132+25

MATCH LINE STA 137+50

STA 132+55 LT
(RESET TO 132+50 LT)

SOUTH R&RES
INTERSTATE 91 R&RES
R&RES
R

Bellows Falls 10 R&RES
Brattleboro 33 R&RES
R R
STA 133+89 LT

R&RES (3) R&RES (3) R&RES (3)
SOUTH INTERSTATE 91 R
SOUTH 5
WEST VERMONT 11 R
STA 135+14 LT
(RESET TO STA 135+25 LT)

STA 136+70 LT
ONE WAY R
R R

END CHARLESTOWN RD (US ROUTE 5
/VT ROUTE 11) PROJECT
STA. 137+00.00

White River Jct 31 R
NORTH R&RES
INTERSTATE 91 R&RES
R
R R
STA 134+09 RT
(RESET TO STA 135+50 LT)

EXIT 30 MPH R
R
STA 135+38 RT

R&RES R&RES
R R
B-B
R
STA 135+89 RT
(RESET TO STA 135+75 CL)

DO NOT ENTER R
R
STA 136+70 LT

R&RES
R R
STA 137+22 LT
(RESET TO STA 127+93 LT)

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 26

SEE TRAFFIC SIGN PLAN SHEETS 1 TO 19 FOR I-91 NB, I-91 SB, & I-91 RAMP SIGNS, BRIDGES 28 SUPERSTRUCTURES NOT SHOWN FOR CLARITY

SCALE 1" = 20'-0"
20 0 20

EXISTING SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 23A		SHEET	436 OF 922

HNTB

N

VT STATE PLANE GRID

STA 132+50 LT

SOUTH RES
INTERSTATE 91 RES
RES
N

STA 133+75 LT

Bellows Falls 10 RES
Brattleboro 33 RES
N N

RES (3) RES (3) RES (3)

SOUTH INTERSTATE 91 N
SOUTH 5 N
WEST VERMONT 11 N

STA 135+45 LT

STA 136+65 CL
(RESET FROM STA 141+48 RT)

N RES
N B-B N
N

NORTH INTERSTATE 91 RES
RES
RES
N

STA 136+75 LT
(RESET FROM
STA 141+48 RT)

END CHARLESTOWN RD (US ROUTE 5
/VT ROUTE 11) PROJECT
STA. 137+00.00

MATCH LINE STA 132+25

MATCH LINE STA 137+50

STA 134+00 RT

ONLY N
N

STA 136+17 RT

STOP N
N

STA 137+15 RT

STOP N
N

White River Jct 31 N
NORTH INTERSTATE 91 RES
RES
N
N N

STA 135+50 LT
(RESET FROM 134+09 RT)

RES RES
N N
B-B N

STA 135+75 CL

RESETTING SIGNS
AS SHOWN - 22

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 10

SEE TRAFFIC SIGN PLAN SHEETS 1 TO 19 FOR I-91 NB, I-91 SB, & I-91 RAMP SIGNS, BRIDGES 28 SUPERSTRUCTURE NOT SHOWN FOR CLARITY

PROPOSED SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 23B		SHEET	437 OF 922

HNTB

SCALE 1" = 20'-0"
20 0 20

MATCH LINE STA 137+50

138+00

139+00

140+00

141+00

142+00

143+00

2019+00

2020+00

2021+00

2022+00

2023+00

PUE

END CHARLESTOWN RD (US ROUTE5/
VT ROUTE 11) APPROACH
STA. 142+50.00
MATCH EXISTING

STA 140+18 LT
R&RES
R R

STA 141+31 LT
(RESET TO STA 211+53 LT)
R&RES R&RES R&RES
ONE WAY | DO NOT ENTER | ONE WAY
R R

STA 141+31 LT
(RESET TO STA 211+50 LT)
STOP R&RES
R

STA 141+64 LT
(RESET TO STA 211+50 RT)
STOP R&RES
R

STA 141+67 LT
(RESET TO STA 211+53 RT)
R&RES R&RES R&RES
ONE WAY | DO NOT ENTER | ONE WAY
R R

R&RES
B-B
NORTH INTERSTATE 91 R&RES
R&RES
R
STA 141+48 RT
(RESET TO STA 136+65 CL) (RESET TO STA 136+75 LT)

PROHIBITED PEDESTRIANS HITCHHIKERS STOPPING FOR HITCHHIKERS BANNERS BICYCLES FARM MACHINERY SNOW VEHICLES R
TURN SIGNAL REQUIRED BEFORE CHANGING LANES R
R R
STA 141+73 RT

STA 142+37 LT
R&RES SOUTH 5 R&RES
R NORTH INTERSTATE 91 R
R
R
WEST VERMONT 11 R&RES
SOUTH INTERSTATE 91 R&RES
R&RES
R&RES
R

R
R
STA 138+62 RT

NORTH INTERSTATE 91 R&RES
R&RES
R
R
STA 138+77 RT
(RESET TO STA 128+50 RT)

PROHIBITED PEDESTRIANS HITCHHIKERS STOPPING FOR HITCHHIKERS BANNERS BICYCLES FARM MACHINERY SNOW VEHICLES R&RES
TURN SIGNAL REQUIRED BEFORE CHANGING LANES R&RES
R R
STA 2020+30 RT
(RESET TO STA 301+50 RT)

STA 2023+14 LT
YIELD R
R

R
R R
STA 2022+41 RT

Charlestown NH 2 RET
RET NORTH 5 EAST VERMONT 11 RET
RET RET
STA 143+13 RT

N
VT STATE PLANE GRID

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 35

SCALE 1" = 20'-0"
20 0 20

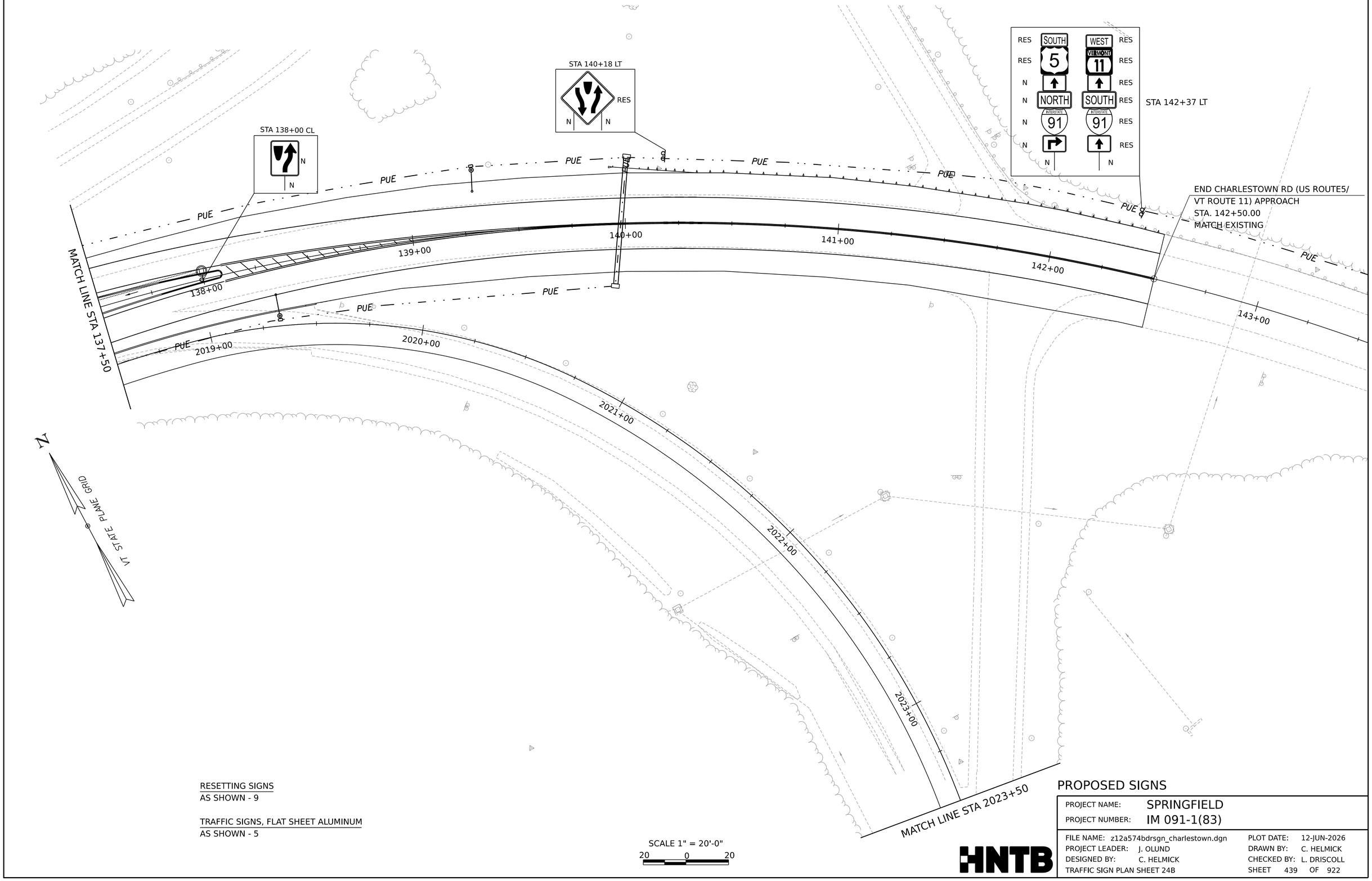
EXISTING SIGNS

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdrsgn_charlestown.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN PLAN SHEET 24A

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 438 OF 922

HNTB



RESETTING SIGNS
AS SHOWN - 9

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 5

SCALE 1" = 20'-0"
20 0 20

PROPOSED SIGNS

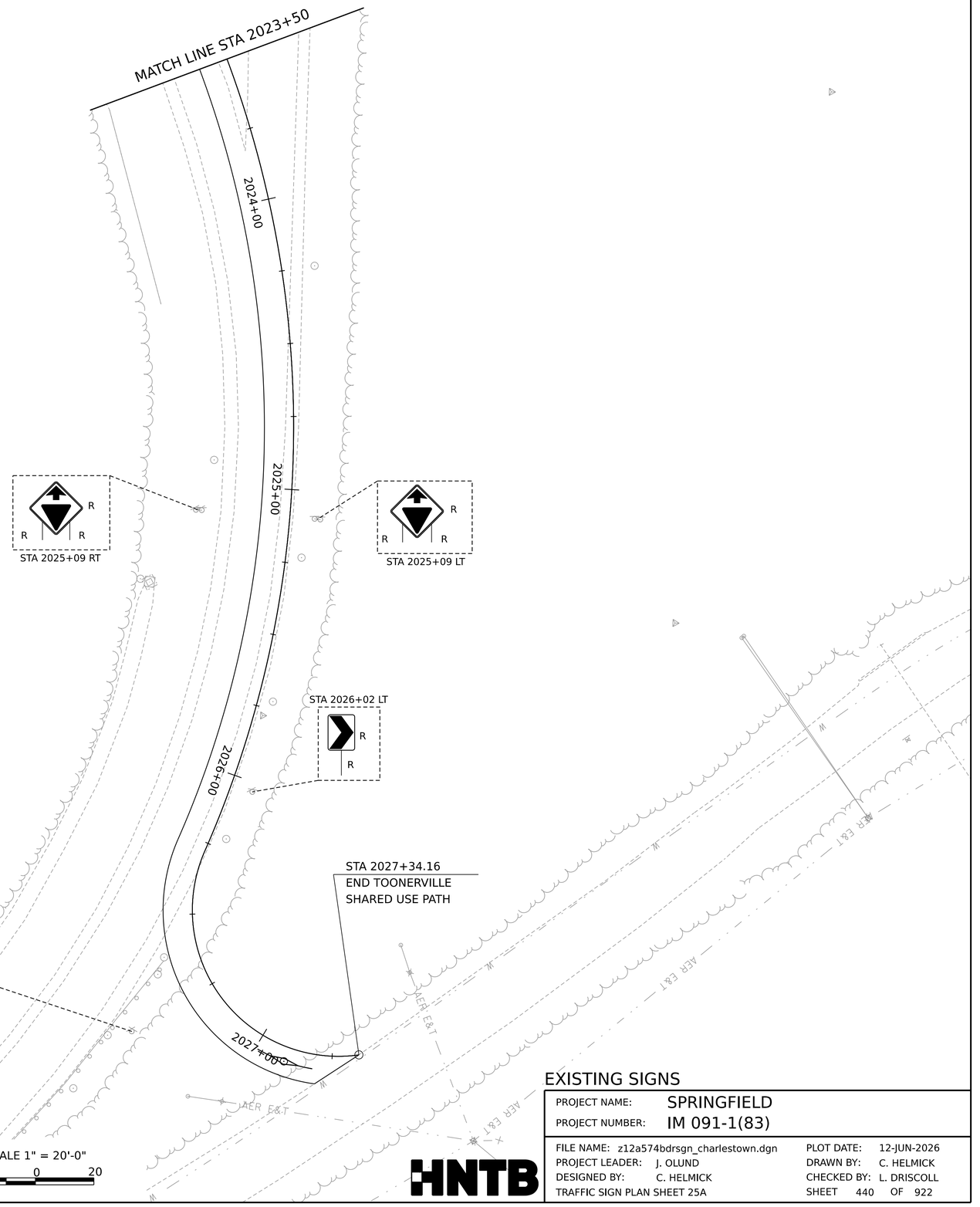
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdrsgn_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 24B	SHEET 439 OF 922

HNTB

N

VT STATE PLANE GRID

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 4

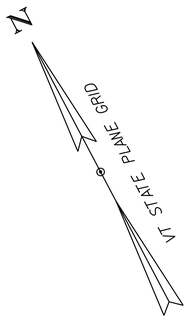


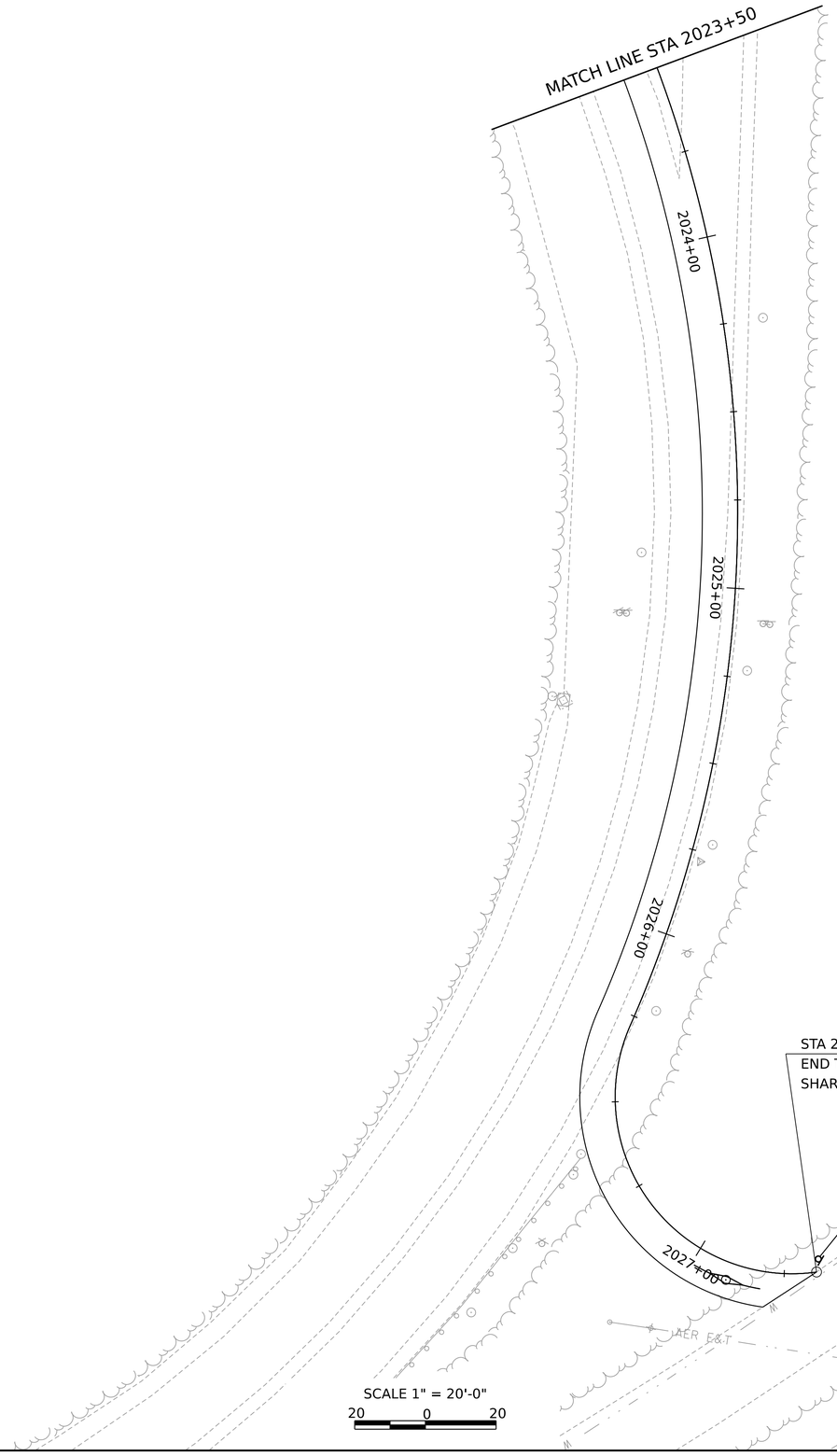
EXISTING SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 25A		SHEET	440 OF 922

HNTB





RESETTING SIGNS
AS SHOWN - 1

TRAFFIC SIGNS, FLAT SHEET ALUMINUM
AS SHOWN - 1

PROPOSED SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 25B		SHEET	441 OF 922

HNTB

SIGN REMOVAL, FLAT SHEET ALUMINUM
AS SHOWN - 16

N

VT STATE PLANE GRID

STA 139+79 LT

R NORTH R
R 5 R
R R
R EAST R
R VERMONT R
R 11 R
R R

R SOUTH R
R 5 R
R R
R WEST R
R VERMONT R
R 11 R
R R

STA 140+39 LT
(RESET TO STA 206+50 LT)

WRONG WAY R&RES
R R

STA 140+67 LT
(RESET TO STA 206+50 RT)

WRONG WAY R&RES
R R

STA 138+66 LT

WRONG WAY R
R R

STA 138+85 LT

WRONG WAY R
R R

END SPENCER BROOK
STREAM RELOCATION
STA. 905+50.00

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 900+75.00

00+906
905+00
904+00
903+00
902+00
901+00
900+00

2462
BORING
B-III AS-DRILLED

SCALE 1" = 20'-0"
20 0 20

EXISTING SIGNS

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdrsgn_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 26A		SHEET	442 OF 922

HNTB

N

VT STATE PLANE GRID

906+00

END SPENCER BROOK
STREAM RELOCATION
STA. 905+50.00

905+00

904+00

903+00

902+00

901+00

900+00

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 900+75.00

2462
BORING
B-III AS-DRILLED

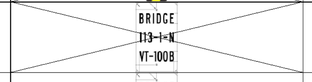
SCALE 1" = 20'-0"
20 0 20

HNTB

PROPOSED SIGNS

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574bdrsgn_charlestown.dgn PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK CHECKED BY: L. DRISCOLL
TRAFFIC SIGN PLAN SHEET 26B SHEET 443 OF 922

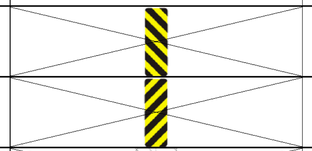
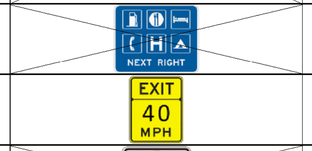
LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL										
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 NB																																							
22143+49 RT	A	D10-2a			1	12	48			1					1.00																					MILE 40.6				
22145+00 RT	A	E1-5P			1	114	30			1					2.00																					EXIT 7				
	A				1					1																									US RT. 5, 11 SPRINGFIELD, 1 MILE				
	A				1					1																									MILEPOINT EXIT 41				
22154+09 RT	A	D10-2a			1	12	48			1					1.00																					MILE 40.8				
22156+46 RT	A		(Charlestown NH Exit 7)		1					1					2.00																					CHARLESTOWN NH EXIT 7				
	A	D2-1			1	48	24			1																									THE FORT AT NO. 4				
22159+18 RT	A	OM-3R			1	12	36						1					1																						
	A	VD-701			1	6	10						1				1																			BRIDGE 25N I-91				
	A	VD-701			1	6	10	0.42									1		8			1													BRIDGE 25N I-91				T-42
22159+52 LT	J	OM-3L			1	12	36						1					1																						
22164+90RT	A	D10-2a			1	12	48			1					1																					MILE 41.0				
22165+39 RT	A	E1-5P			1	114	30			1					2																					EXIT 7				
	A				1					1																									US RT. 5, 11 SPRINGFIELD, 1/2 MILE				
	A	E2-1P			1		24			1																									NEXT EXIT 10 MILES				
22170+22 RT	A	W8-13			1	48	48			1					2																										
22174+00 RT	A	D9-18b			1	132	114					1						2														2		600	W6x15					
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100										
SUMMARY SHEET 1		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS										
STATE OF VERMONT		SHEET TOTALS			0.42	0.00	12	0	1	3	0	11	0	0	3	3	0	8.00	0.00	0.00	1	0	0	0.00	0.00	0.00	0.00	2	0	600.00										
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00										

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 1

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 444 OF 922

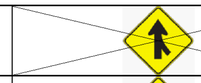
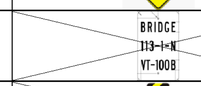
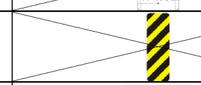
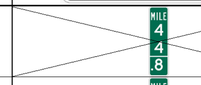
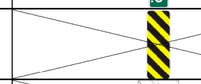
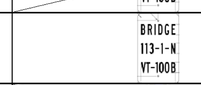
LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL								
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 NB (Continued from previous sheet)																																						
22175+4 5 RT	A	D10-2a			1	12	48			1					1.00																				MILE 41.2				
22175+9 6 RT	A		BLACK RIVER		1					1					2.00																				BLACK RIVER SIGN				
22177+0 3 LT	J	OM-3L			1	12	36						1					1																					
22177+0 5 RT	A	OM-3R			1	12	36						1					1																					
22177+0 5 RT	A	VD-701			1	6	10				1		1					1																		BRIDGE 28N I-91				
	A	VD-701			1	6	10					1						1	1		8			1												BRIDGE 28N I-91				T-42
22182+0 0RT	A	E1-5P			1	114	30					1						2													2		600	W6X 15					
	A				1	132	114					1																								US RTE 5, 11, RIGHT ARROW, SPRINGFIELD				
22198+8 8 RT	A	E1-5P			1	114	30				1			1.00																									
	A				1	132	114				1			1.00																						US RTE 5, 11, RIGHT ARROW, SPRINGFIELD				
22183+6 5 RT	A	D9-18b			1	132	114				1			1.00				2																					
22184+0 0 RT	A	W13-2			1	36	48	12.00											1			15		1												BLACK ON YELLOW	X		
22184+3 2 LT	J	R3-4			1	36	36				1		1					2																					
	J	R3-4			1	36	36					1						2	2		30			2															
22185+9 2	A	D10-2a			1	12	48				1		1					1																					
	A	D10-2a			1	12	48					1						1	1		8			1															
22193+1 3 LT	J	OM-3L			1	12	36						1					1																					
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100				6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100							
SUMMARY SHEET 2			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS							
STATE OF VERMONT			SHEET TOTALS		12.00	0.00	2	6	5	6	3	3	0	0	9	7	0	16.00	45.00	0.00	5	0	0	0.00	0.00	0.00	0.00	2	0	600.00							
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00							

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 2

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET			NO. OF POSTS	SOIL BEARING SLIP BASE	SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL				SIGN FRAME REQUIRED				
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE			1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE					SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 NB (Continued from previous sheet)																																							
22192+70 RT	A	W4-1R			1	48	48				1		1					2																						
22203+52 RT	A	W4-1R			1	48	48					1							2			30		2																
22193+30RT	A	VD-701			1	6	10						1					1																			BRIDGE 27N I-91				
22159+18 RT	A	OM-3R			1	12	36						1					1																						
22194+30RT	A	OM1-1			1	18	18	2.25										1		8			1														X		
22194+44RT	A	E5-1A			1	78	60					1						2							2			324											
22206+85RT	A	E5-1A			1	78	60				1			1.00				2																						
22197+20 LT	L	R6-1R			1	48	18				1		1					2																						
22208+75 LT	L	R6-1R			1	48	18					1						2			30		2																
22196+49 RT	A	D10-2a			1	12	48				1		1					1																			MILE 41.6				
	A	D10-2a			1	12	48					1						1		8			1														MILE 41.6				
22200+29 LT	J	OM-3L			1	12	36						1					1																						
22200+43 RT	A	VD-701			1	6	10				1		1					1																			BRIDGE 28N I-91				
22200+50 RT	A	VD-701			1	6	10					1						1		8			1														BRIDGE 28N I-91			T-42	
22200+43 RT	A	OM-3R			1	12	36						1					1																						
22203+31 LT	K	R5-1A			1	42	30						1					1																						
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100								
SUMMARY SHEET 3			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS								
STATE OF VERMONT			SHEET TOTALS		2.25	0.00	0	5	5	9	1	0	0	0	13	9	0	24.00	60.00	0.00	7	0	2	0.00	0.00	324.00	0.00	0	0	0.00								
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00								

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 3

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 446 OF 922

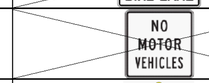
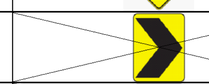
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS				EXIST POSTS				NEW SIGN POSTS																				SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE		RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL											
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS		SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 NB (Continued from previous sheet)																																							
22203+31 RT	A	W13-3	RAMP 25 MPH		1	36	48						1					2																						
	B	R5-1A	WRONG WAY		1	42	30						1																											
22206+38 RT	A	om1-1			1	18	18						1					1																						
22207+02 RT	A	OM1-1	MILE 44.8		1	12	48				1		1					1																				MILE 41.8			
22207+02 RT	A	D10-2A	MILE 44.8		1	12	48					1							1		8			1														MILE 41.8			
22206+21 RT	A	W13-1P	25 MPH		1	24	24						1																											
	A	W1-11R			1	48	48						1					2																						
22211+83 RT	A	R8-7	EMERGENCY STOPPING ONLY		1	48	36				1		1					2																						
22223+00RT	A	R8-7	EMERGENCY STOPPING ONLY		1	48	36					1							2			30		2																
22215+73 RT	A	M3-1P	NORTH INTERSTATE 91 EISENHOWER INTERSTATE SYSTEM		1	36	18				1		1																								WHITE ON BLUE			
	A	M1-1			1	36	36				1		1					1																						
	A	M1-10			1	36	36				1		1																											
22228+00 RT	A	M3-1P	NORTH INTERSTATE 91 EISENHOWER INTERSTATE SYSTEM		1	36	18					1																										WHITE ON BLUE			
	A	M1-1			1	36	36					1							1						1	114														
	A	M1-10			1	36	36					1																												
22217+62 RT	A	D10-2A	MILE 44.8		1	12	48				1		1					1																				MILE 42.0			
	A	D10-2a	MILE 44.8		1	12	48					1							1		8			1														MILE 42.0			
22222+05RT	A	R2-4A	SPEED LIMIT 65 MINIMUM 40		1	48	96				1		1					1																						
22233+00 RT	A	R2-4A	SPEED LIMIT 65 MINIMUM 40		1	48	96					1							1						1	114														
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100										
SUMMARY SHEET 4			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS									
STATE OF VERMONT			SHEET TOTALS		0.00	0.00	0	7	7	12	0	0	0	0	11	6	0	16.00	30.00	0.00	4	0	2	228.00	0.00	0.00	0.00	0	0	0.00									
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00									

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 4

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 447 OF 922

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																				REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET				SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL												
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NB PROPOSED ON/OFF RAMP																																								
204+26 RT	A	R3-17			1	24	18						1					1																		"BIKE ROUTE"				
204+61 RT	A	R5-3			1	24	24						1					1																						
204+65 RT	A	W3-1			1	48	48	16.00											2			30		2												YELLOW	X		
205+23 RT	A	W1-8R			1	36	48						1					1																						
205+59 LT	J	W1-8R			1	36	48						1					1																						
205+89 LT	J	R3-2			1	36	36				1		1					1																						
307+17 RT	A	R3-2			1	36	36					1							1			15		1																
205+19 RT	A	W1-8R			1	36	48						1					1																						
205+48 RT	A	W1-8R			1	36	48						1					1																						
206+33 LT	A	R1-2			1	60	60						1					1																						
208+50 RT	A	M3-3P			1	36	18						1						2							2			438					X	TYPE 2C SIGN FRAME	BLACK ON WHITE			
	A	M1-4			1	36	36						1																										
	A	M6-1PL			1	30	21						1																								BLACK ON WHITE			
	A	M3-4P			1	36	18						1																								GREEN ON WHITE			
	A	VM1-5			1	36	36						1																											
	A	M6-1PL			1	30	21						1																								GREEN ON WHITE			
	A	M3-1P			1	36	18						1																								BLACK ON WHITE			
	A	M1-4			1	36	36						1																											
	A	M6-1PR			1	30	21	4.38																													BLACK ON WHITE	X		
	A	VM3-2			1	36	18						1																								GREEN ON WHITE			
	A	VM1-5			1	36	36						1																											
	A	VM6-1R			1	30	21	4.38																													GREEN ON WHITE	X		

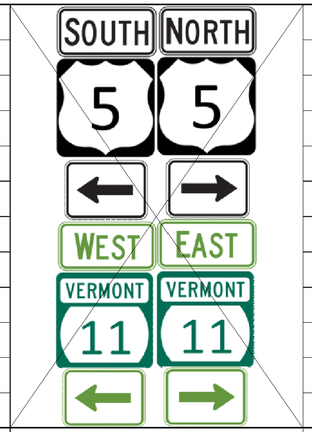
TRAFFIC SIGN	ASSOCIATED PAY ITEM (675.XXXX)	2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100														
SUMMARY SHEET 5	UNITS	SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS														
STATE OF VERMONT	SHEET TOTALS	24.75	0.00	0	1	11	8	0	0	0	0	8	5	0	0.00	45.00	0.00	3	0	2	0.00	0.00	0.00	438.00	0	0	0.00														
AGENCY OF TRANSPORTATION	PROJECT TOTALS	308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00														

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 5

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

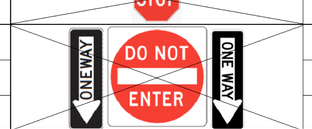
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS				EXIST POSTS				NEW SIGN POSTS																						REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET					SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL													
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED							
NB PROPOSED ON/OFF RAMP (Continued from previous sheet)																																											
306+61 RT	A	M3-1P			1	36	18				1		1					2																							BLACK ON WHITE			
	A	M1-4			1	36	36				1		1																															
	A	M6-1PL			1	30	21				1		1																													BLACK ON WHITE			
	A	M3-2P			1	36	18				1		1																													WHITE ON GREEN			
	A	VM1-5			1	36	36				1		1																															
	A	M6-1PL			1	30	21				1		1																													WHITE ON GREEN			
	A	M3-3P			1	36	18				1		1																													BLACK ON WHITE			
	A	M1-4			1	36	36				1		1																															
	A	M6-2PR			1	30	21						1																													BLACK ON WHITE			
	A	M3-4P			1	36	18				1		1																													WHITE ON GREEN			
	A	VM1-5			1	36	36				1		1																															
	A	M6-2PR			1	30	21						1																													WHITE ON GREEN			
206+20 RT	A	VD1-1A			1	60	24	10.00											2	2			30	2																	CHARLESTOWN NH RIGHT 2	WHITE ON GREEN		T-93
	A	VD1-1A			1	60	24	10.00											2	2			30	2																	FORT AT NO.4 RIGHT 1	WHITE ON GREEN		T-93
	A	VD1-1A			1	60	24	10.00																																	LEFT SPRINGFIELD 4	WHITE ON GREEN		T-93
206+20 RT	B	R5-1A			1	42	30					1																															
140+39 LT	J	R5-1A			1	42	30				1		1					2																									
210+00 LT	B	R5-1A			1	42	30					1							2			30		2																			
140+67 LT	K	R5-1A			1	42	30				1		1					2																									
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100													
SUMMARY SHEET 6			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS													
STATE OF VERMONT			SHEET TOTALS		30.00	0.00	0	12	2	14	0	0	0	0	6	4	2	0.00	30.00	30.00	4	0	0	0.00	0.00	0.00	0.00	0	0	0.00													
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00													

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 6

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																			REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL											
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NB PROPOSED ON/OFF RAMP (Continued from previous sheet)																																								
209+50 RT	A	VD-502	(GAS/DIESEL 24 HRS RIGHT)		1	72	10	5.00											2			30		2																T-129
	A	VD-502			1	72	10	5.00																																T-129
	A	VD-502			1	72	10	5.00																																T-129
	A	VD-502			1	72	10	5.00																																T-129
	A	VD-502			1	72	10	5.00																																T-129
210+50 RT	A	VR-925			1	30	36	7.50											1			15		1																BLACK ON WHITE			T-145
211+50 RT	A	R1-1			1	36	36					1							2			30		2																		
	C	R6-1L			1	48	18					1																													
	B	R5-1			1	48	48					1							2			30		2																		
	D	R6-1R			1	48	18					1																													
211+50 LT	J	R1-1			1	36	36					1							2			30		2																		
	L	R6-1L			1	48	18					1																													
	K	R5-1			1	48	48					1							2			30		2																		
	L	R6-1R			1	48	18					1																													
141+31 LT	H	R1-1			1	36	36				1		1				1																							
141+31 LT	E	R6-1L			1	48	18				1		1																											
	G	R5-1			1	48	48				1		1				2																							
	F	R6-1R			1	48	18				1		1																											
141+64 LT	H	R1-1			1	36	36				1		1				1																							
141+67 LT	E	R6-1L			1	48	18				1		1																											
	G	R5-1			1	48	48				1		1				2																							
	F	R6-1R			1	48	18				1		1																											
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100								
SUMMARY SHEET 7			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS								
STATE OF VERMONT			SHEET TOTALS		32.50	0.00	0	8	8	8	0	0	0	0	6	11	0	0.00	165.00	0.00	11	0	0	0.00	0.00	0.00	0.00	0	0	0.00								
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00								

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 7

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 450 OF 922

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																						REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL													
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NB PROPOSED ON/OFF RAMP (Continued from previous sheet)																																											
301+50 RT	A	VR-046	PROHIBITED PEDESTRIANS HITCHHIKERS STOPPING FOR HITCHHIKERS ANIMALS BICYCLES FARM MACHINERY SNOW VEHICLES		1	36	36					1							2	2			30	2																		
	A	VR-002			1	36	36					1																														
2020+30 RT	A	VR-046	PROHIBITED PEDESTRIANS HITCHHIKERS STOPPING FOR HITCHHIKERS ANIMALS BICYCLES FARM MACHINERY SNOW VEHICLES		1	36	36				1		1					1																							
	A	VR-002			1	36	36				1		1																												
309+64 LT	A	VD-701	BRIDGE 113-1-N VT-100B		1	6	10				1							1																						BRIDGE 28-1N I-91				
309+60 LT	A	VD-701	BRIDGE 113-1-N VT-100B		1	6	10					1							1		8			1																BRIDGE 28-1N I-91				T-42
NB EXISTING OFF RAMP																																											
306+23 RT	A	W3-1			1	48	48						1					1																							BLACK ON YELLOW			
306+40 RT	A	W1-8R			1	36	48						1					1																							BLACK ON YELLOW			
306+79 RT	A	W1-8R			1	36	48						1					1																							BLACK ON YELLOW			
307+01 RT	A	W1-8R			1	36	48						1					1																							BLACK ON YELLOW			
Milemarker 41.8	L	W1-8R			7	36	48						7					7																							BLACK ON YELLOW			
Milemarker 41.8	A	VD-502	(GAS/DIESEL 24 HRS RIGHT)		1	72	24						1					2																						(GAS/DIESEL 24 HRS RIGHT)				
	A	VD-502			1	72	24						1																												(LEFT2 FOOD RIGHT)				
	A	VD-502			1	72	24						1																												(LODGING RIGHT)				
	A	VD-502			1	72	24						1																												(HOSPITAL RIGHT)				
	A	VD-502			1	72	24						1																												(CAMPING RIGHT)				

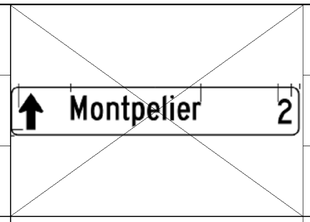
TRAFFIC SIGN SUMMARY SHEET 8																																												
	ASSOCIATED PAY ITEM (675.XXXX)	2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100																
	UNITS	SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS																
STATE OF VERMONT	SHEET TOTALS	0.00	0.00	0	3	3	18	0	0	0	0	15	3	2	8.00	0.00	30.00	3	0	0	0.00	0.00	0.00	0.00	0	0	0.00																
AGENCY OF TRANSPORTATION	PROJECT TOTALS	308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00																

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 8

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL									
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NB EXISTING OFF RAMP (Continued from previous sheet)																																							
Milemarker 41.8	A	VD1-1A			1		24						1																							LEFT CHARLESTOWN NH 2	WHITE ON GREEN			
	A	VD1-1A			1		24						1					2																			LEFT FORT AT NO.4 1	WHITE ON GREEN			
	A	VD1-1A			1		24						1																							RIGHT SPRINGFIELD 4	WHITE ON GREEN			
I-91 SB																																							
12143+46 LT	F	D10-2a			1	12	48			1					1.00																						MILE 40.6				
12154+58 LT	F	D10-2a			1	12	48			1					1.00																						MILE 40.8				
12155+61 LT	F	D2-1			1		24			1					2.00																						(BELLOW FALLS 10)				
	F	D2-1			1		24			1																											BRATTLEBORO 32				
12162+49 RT	K	OM-3R			1	12	36						1					1																						
12162+83 LT	F	OM-3L			1	12	36						1					1																						
12162+88 LT	F	VD-701			1	6	10				1		1					1																			BRIDGE 25S I-91				
	F	VD-701			1	6	10					1						1		8			1													BRIDGE 25S I-91				T-42
12164+86 LT	F	D10-2A			1	12	48			1					1																						MILE 41.0				
12166+74 LT	F	R2-4A			1	48	96			1					2																										
12171+09 LT	F	M3-3P			1	36	18			1					1.00																										
	F	M1-1			1	36	36			1																															
	F	M1-10			1	36	36			1																															

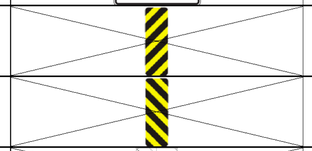
TRAFFIC SIGN	ASSOCIATED PAY ITEM (675.XXXX)	2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100													
SUMMARY SHEET 9	UNITS	SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS													
STATE OF VERMONT	SHEET TOTALS	0.00	0.00	9	1	1	6	0	8	0	0	5	1	0	8.00	0.00	0.00	1	0	0	0.00	0.00	0.00	0.00	0	0	0.00													
AGENCY OF TRANSPORTATION	PROJECT TOTALS	308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00													

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 9

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

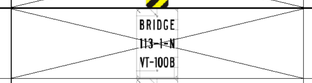
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																								SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL						REMARKS				
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED									SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 SB (Continued from previous sheet)																																												
12174+98 LT	F	D10-2a			1	12	48			1					1.00																								MILE 41.2				
12175+87 LT	F	R8-7			1	48	36			1					2.00																													
12180+69 RT	K	OM-3R			1	12	36						1					1																										
12180+73 LT	F	OM-3L			1	12	36						1					1																										
12180+82 LT	F	VD-701			1	6	10				1		1					1																								BRIDGE 26S I-91				
	F	VD-701			1	6	10					1						1	1		8			1																		BRIDGE 26S I-91				T-42
12182+10 LT	F		BLACK RIVER		1						1		1					2																										
12182+10 LT	F		BLACK RIVER		1							1						2			30		2																					
12184+40 LT	F	W8-13			1	48	48					1						2			30		2																			X		
12185+06 LT	F	W8-13			1	48	48				1		1					2																										
12186+00 LT	F	D10-2a			1	12	48					1						1		8			1																		MILE 41.4				
12186+02 LT	F	D10-2a			1	12	48				1		1					1																								MILE 41.4				
12184+96RT	K	R3-4			1	36	36				1		1					2																										
12184+96 RT	K	R3-4			1	36	36					1						2			30		2																					
12193+77 LT	F	OM-3R			1	12	36						1					1																										
12193+78 LT	F	VD-701			1	6	10				1		1					1																								BRIDGE 27S I-91				
12193+92 RT	K	OM-3L			1	12	36						1					1																										
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100				6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100												
SUMMARY SHEET 10			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS												
STATE OF VERMONT			SHEET TOTALS		0.00	0.00	2	6	5	10	0	3	0	0	13	8	0	16.00	90.00	0.00	8	0	0	0.00	0.00	0.00	0.00	0	0	0.00												
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00												

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 10

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

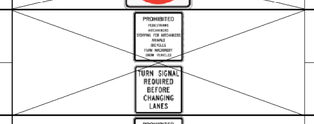
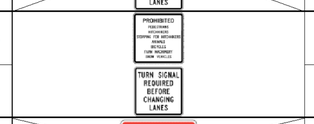
LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET				SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL							REMARKS			
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 SB (Continued from previous sheet)																																						
12194+75 RT	L	R6-1R			1	48	18					1							2			30		2															
12194+85 RT	L	R6-1R			1	48	18				1		1					2																					
12196+38 LT	F	W4-1R			1	48	48	16.00											2			30		2												BLACK ON YELLOW	X		
12201+92 LT	F	OM-3R			1	12	36						1					1																					
12201+93 LT	F	VD-701			1	6	10				1		1					1																		BRIDGE 28S I-91			
	F	VD-701			1	6	10					1							1		8			1												BRIDGE 28S I-91			
12202+01 RT	K	OM-3L			1	12	36						1					1																					
12205+28 LT	F	E5-1A			1	78	60			1					2.00																								
12205+65 LT	F	OM1-1			1	18	18			1					1.00																								
12207+67 RT	K	R5-1A			1	42	30				1		1					2																					
	K	R5-1A			1	42	30					1							2			30		2															
12207+69 LT	F	W13-3			1	36	48						1					2																					
12207+69 LT	E	R5-1A			1	42	30				1		1																										
12207+70 LT	F	W13-2			1	36	48	12.00											2	2			30	2												MOUNT TO PROPOSED LIGHT STANDARD		X	
12207+69 LT	E	R5-1A			1	42	30					1																										
12211+92 LT	F	E1-5P			1	114	30			1					2																					EXIT 7			
	F				1					1																									(US ROUTE 5,11 SPRINGFIELD, 1 MILE)			
	F				1					1																									(MILEPOINT EXIT 41)			
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100								
SUMMARY SHEET 11			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS								
STATE OF VERMONT			SHEET TOTALS		28.00	0.00	5	4	4	7	0	5	0	0	9	9	2	8.00	90.00	30.00	9	0	0	0.00	0.00	0.00	0.00	0	0	0.00								
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00								

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

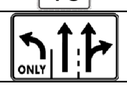
FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 11

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 454 OF 922

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																				REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET					SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL												
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 SB (Continued from previous sheet)																																									
11216+56 LT	F	D10-2a			1	12	48			1					1.00																					MILE 42.0				
SB OFF RAMP																																									
12203+16 LT	K	M3-1P			1	36	18			1					2.00																				X	TYPE 2C SIGN FRAME				
	K	M1-4			1	36	36			1																																
	K	M6-1PL			1	30	21			1																																
	K	M3-2P			1	36	18			1																																
	K	VM1-5			1	36	36			1																																
	K	M6-1L			1	30	21			1																																
	K	M3-3P			1	36	18			1																											TYPE 2C SIGN FRAME				
	K	M1-4			1	36	36			1																																
	K	M6-3P			1	30	21			1																																
	K	M3-4P			1	36	18			1																																
	K	VM1-5			1	36	36			1																																
	K	M6-3P			1	30	21			1																																
12203+35 LT	F	W3-1			1	48	48			1					2																										
12203+60 LT	F	W3-1			1	48	48			1					2																										
SB PROPOSED ON RAMP																																									
401+35 LT	F	R3-2			1	36	36					1							1			15		1																
401+47 RT	F	R3-2			1	36	36				1		1				1																							
403+27 LT	F	VR-046			1	36	36				1		1				2																							
	F	VR-002			1	36	36				1		1																											
404+75 LT	F	VR-046			1	36	36					1							2				30	2																
	F	VR-002			1	36	36					1																													
404+38 LT	F	R1-2			1	48	48						1				1																							
405+35 LT	F	R1-1			1	18	18					1							1			15		1													INSTALL WITH 7' CLEAR HEIGHT				
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100										
SUMMARY SHEET 12		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS										
STATE OF VERMONT		SHEET TOTALS			0.00	0.00	15	3	4	4	0	7	0	0	4	4	0	0.00	30.00	30.00	4	0	0	0.00	0.00	0.00	0.00	0	0	0.00										
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00										

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574tss
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 12	
PLOT DATE:	12-JUN-2026
DRAWN BY:	K. PURNOMO
CHECKED BY:	P. MCKECHNIE
SHEET	455 OF 922

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																					SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET				SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL									REMARKS		SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED						
SB PROPOSED ON RAMP (Continued from previous sheet)																																									
401+47 RT	F	R3-2			1	36	36				1		1					1																							
403+27 LT	F	VR-046			1	36	36				1		1					2																							
	F	VR-002			1	36	36				1		1																											
404+75 LT	F	VR-046			1	36	36					1							2				30	2																	
	F	VR-002			1	36	36					1																													
404+38 LT	F	R1-2			1	48	48						1					1																							
405+35 LT	F	R1-1			1	18	18					1							1			15		1															INSTALL WITH 7' CLEAR HEIGHT				
405+37 RT	A	R1-1			1	18	18					1							1			15		1															INSTALL WITH 7' CLEAR HEIGHT				
405+36 LT	F	W11-15			1	36	36	9.00											1			15		1															INSTALL RRFB	BLACK ON FYG	X		
	F	W16-7PL			1	21	15	2.19																																	BLACK ON FYG	X		
405+36 RT	A	W11-15			1	36	36	9.00											1			15		1															INSTALL WITH 7' CLEAR HEIGHT	BLACK ON FYG	X		
	A	W16-7PR			1	21	15	2.19																																	INSTALL RRFB	BLACK ON FYG	X		
CHARLESTOWN RD																																										
116+56 RT	A	D4-2			1	30	36			1					1																										
116+66 LT	F	R2-1			1	30	36			1					1																										
117+23 RT	A	VR-934			1	30	48			1					2																										

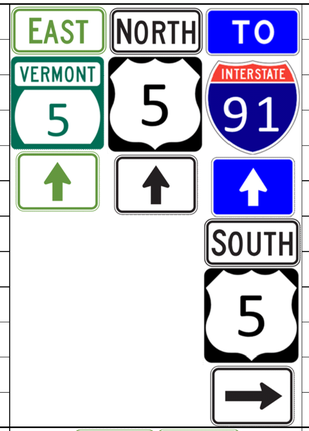
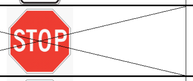
TRAFFIC SIGN	ASSOCIATED PAY ITEM (675.XXXX)	2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100														
SUMMARY SHEET 13	UNITS	SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS														
STATE OF VERMONT	SHEET TOTALS	22.38	0.00	3	3	4	4	0	4	0	0	4	6	0	0.00	60.00	30.00	6	0	0	0.00	0.00	0.00	0.00	0	0	0.00														
AGENCY OF TRANSPORTATION	PROJECT TOTALS	308.98	0.00	118	148	145	243	4	74	0	0	182	134	15	152.00	1230.00	255.00	118	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00														

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 13

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

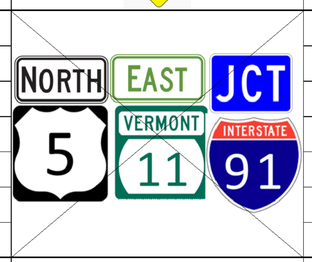
LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																SIGN FRAME REQUIRED	REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL								
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE				SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																						
117+97 RT	A	M3-2P			1	24	12			1					2.00																	X	TYPE 3A FRAME				
	A	VM1-5			1	24	24			1																													
	A	M6-3P			1	21	15			1																													
	A	M3-1P			1	24	12			1																													
	A	M1-4			1	24	24			1																													
	A	M6-3P			1	21	15			1																													
	A	M4-5P			1	24	12			1																													
	A	M1-1			1	24	24			1																													
	A	M6-3P			1	21	15			1																													
	A	M3-3P			1	24	12			1																													
	A	M1-4			1	24	24			1																													
	A	M6-1PR			1	21	15			1																													
118+38 LT	F	M3-4P			1	24	12			1					2																	X	TYPE 1A FRAME				
	F	VM1-5			1	24	24			1																													
	F	M4-5P			1	24	12			1																													
	F	VM1-5			1	24	24			1																													
118+531 RT	B	R10-3B			1	9	12	0.75																													MOUNT TO PED POLE		X		
118+51 RT	B	R9-5			1	12	18	1.50																															X		
11118+13 LT	D	R1-1			1	18	18						1					1																						
119+22 LT	H	R1-1			1	18	18			1					1.00																									
119+48 LT	H	R4-7			1	24	30				1		1					1																						
	H,G	OM1-1			2	18	18				2		2																										
119+48 LT	H	R4-7			1	24	30					1							1			15		1															
	H,G	OM1-1			2	18	18					2																											
1118+26 RT	D	R1-1			1	18	18						1					1																						
119+75 RT	M	R10-15R			1	30	30	6.25																														MOUNT TO MAST ARM		X		
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100									
SUMMARY SHEET 14			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS									
STATE OF VERMONT			SHEET TOTALS		8.50	0.00	17	3	3	5	0	5	0	0	3	1	0	0.00	15.00	0.00	1	0	0	0.00	0.00	0.00	0.00	0	0	0.00									
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	148	145	243	4	74	0	0	182	134	15	152.00	1230.00	255.00	118	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00									

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 14

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 457 OF 922

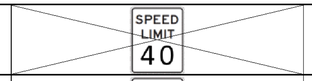
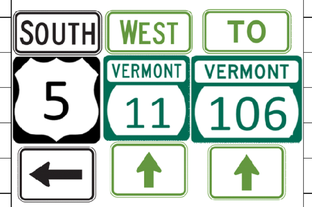
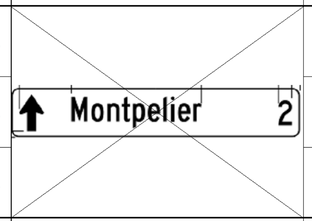
LOCATION				DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL									
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND		EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																							
119+76 RT	A	R10-3B			1	9	12	0.75																													MOUNT TO PED POLE		X		
119+76 RT	A	R9-5			1	12	18	1.50																															X		
119+83 LT	D	R10-15R			1	30	30	6.25																														MOUNT TO MAST ARM		X		
119+89 RT	J	R4-7			1	24	30				1		1					1																						
	J,K	OM1-1			2	18	18				2		2																											
119+89 RT	J	R4-7			1	24	30					1							1			15		1															
	J,K	OM1-1			2	18	18					2																											
119+90 RT	A	M3-1P			1	24	12				1		1					2																						
	A	M1-4			1	24	24				1		1																								BLACK ON WHITE				
	A	M3-2			1	24	12				1		1																											
	A	M3-2P			1	24	12				1		1																								GREEN ON WHITE				
	A	VM1-5			1	24	24				1		1																											
	A	M2-1P			1	21	15				1		1																								WHITE ON BLUE				
	A	M1-1			1	24	24				1		1																											
120+07 LT	A	M2-1P			1	21	15					1							2			30		2		2	228									1A	INSTALL WITH 7' CLEAR HEIGHT	WHITE ON BLUE			
	A	M1-1			1	24	24					1																							1A					
	A	M3-1P			1	24	12					1																									BLACK ON WHITE				
	A	M1-4			1	24	24					1																												
	A	M3-2P			1	24	12					1																									GREEN ON WHITE				
	A	VM1-5			1	24	24					1																												
120+13 LT	H	R10-3B			1	9	12	0.75																													MOUNT TO PED POLE		X		
120+17 RT	A	R10-3B			1	9	12	0.75																													MOUNT TO PED POLE		X		
120+71 LT	F	D4-2			1	30	36			1					1.00																								
121+47 LT	F	VR-934			1	30	48			1					2.00																								
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100									
SUMMARY SHEET 15			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS									
STATE OF VERMONT			SHEET TOTALS		10.00	0.00	2	10	9	10	0	3	0	0	3	3	0	0.00	45.00	0.00	3	0	2	228.00	0.00	0.00	0.00	0	0	0.00									
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	148	145	243	4	74	0	0	182	134	15	152.00	1230.00	255.00	118	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00									

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 15

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

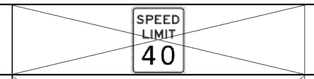
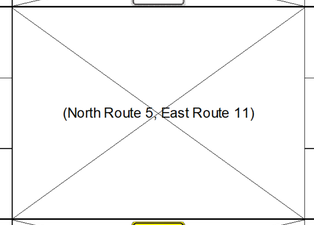
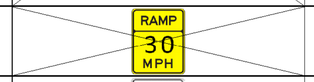
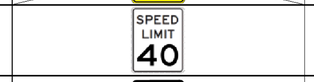
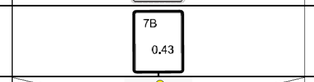
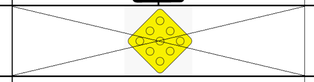
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																						SHEETING REMARKS	SIGN DETAIL		
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	RESET ORIGIN	RESET DESTINATON	REMOVE FLAT SHEET ALUMINUM	REMOVE EXTRUDED ALUMINUM SHEET	RETAIN	RESET ORIGIN	RESET DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	SQUARE STEEL (in) 1.75	SQUARE STEEL (in) 2	SQUARE STEEL (in) 2.5	SQUARE STEEL (in) ANCHOR	SQUARE STEEL (in) SLEEVE	TUBULAR STEEL φ (in) FOUNDATION	TUBULAR STEEL φ (in) 3	TUBULAR STEEL φ (in) 3.5	TUBULAR STEEL φ (in) 4	TUBULAR STEEL φ (in) 5	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS		SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																											
121+49 RT	A	R2-1			1	30	36				1		1					1																									
121+56 RT	A	R2-1			1	30	36					1							1			15		1																INSTALL WITH 7' CLEAR HEIGHT				
122+39 LT	F	W3-3			1	36	36			1					2.00																											
123+43 LT	F	M3-3P			1	24	12			1					2.00																									X	TYPE 3B FRAME				
	F	M1-4			1	24	24			1																																		
	F	M6-1PL			1	21	15			1																																		
	F	M3-4P			1	24	12			1																																		
	F	VM1-5			1	24	24			1																																		
	F	M6-3P			1	21	15			1																																		
	F	M4-5P			1	24	12			1																																		
	F	VM1-5			1	30	24			1																																		
	F	M6-3P			1	21	15			1																																		
122+45 RT	A	VD1-1A			1	72	12				1		1																												(STRAIGHT) WHITE RIVER JCT 31				
	A	VD1-1A			1	72	12						1					2																								BELLOW FALLS 10 (RIGHT)				
	A	VD1-1A			1	72	12						1																													BRATTLEBORO 33 (RIGHT)				
126+25 CL	A	VD1-1A			1	72	12					1																													(STRAIGHT) WHITE RIVER JCT 31				
	A	VD1-1A			1	72	12	6.00											2	2			30	2																	BELLOW FALLS 10 (RIGHT)				T-93
	A	VD1-1A			1	72	12	6.00																																	BRATTLEBORO 33 (RIGHT)				T-93
123+75 RT	A	M3-1P			1	24	12	2.00																																		WHITE ON BLUE	X		
	A	M1-1			1	24	24	4.00											1	1			15	1																			X		
	A	R3-5bP			1	30	12	2.50																																				X		
123+75 RT	A	M3-3P			1	24	12	2.00																																		INSTALL WITH 7' CLEAR HEIGHT	WHITE ON BLUE	X		
	A	M1-1			1	36	36	9.00											1	1			15	1																			X		
	A	M5-1Pr			1	30	21	4.38																																				WHITE ON BLUE	X		
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100													
SUMMARY SHEET 16		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS												
STATE OF VERMONT		SHEET TOTALS			35.88	0.00	10	2	2	4	0	4	0	0	3	5	4	0.00	15.00	60.00	5	0	0	0.00	0.00	0.00	0.00	0	0	0.00												
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	148	145	243	4	74	0	0	182	134	15	152.00	1230.00	255.00	118	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00												

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 16

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 459 OF 922

LOCATION		SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL										
MILEMARKER OR STATION	LOCATION CODE				EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																							
124+38	F	R2-1			1	30	36				1		1					1																					
124+30 RT	M				1	144	120						1																								(NORTH ROUTE 5, EAST ROUTE 11)				
	M				1	168	144						1																								(WHITE RIVER JUNCTION, I-91 NORTH)				
	M				1	180	96						1																								(BRATTLEBORO I-91 SOUTH)				
124+23 RT	A	W13-3			1	24	30						1																											
124+50 LT	F	R2-1			1	30	36					1																								MOUNT TO PROPOSED LIGHT STANDARD		X		
124+63 LT	F				1	6	10			1																														
125+01 RT	A	OM1-1			1	18	18						1																											
125+25 LT	F	VD1-1A			1	72	12			1																											(STRAIGHT) SPRINGFIELD 4				
	F	VD1-1A			1	72	12			1					2.00																					(UP) CHESTER 11				
	F	VD1-1A			1	72	12			1																											(LEFT) BELLOW FALLS 10				
125+76 RT	A	W1-11R			1	30	30						1					2																				BLACK ON FYG			
	A	W13-1P			1	18	18						1																									BLACK ON FYG			
126+51 RT	L	R6-1R			1	48	18			1					2																									
126+00 RT	A	W11-15			1	36	36	9.00											1			15		1													BLACK ON FYG	X		
	A	W16-9P			1	24	12	2.00																													BLACK ON FYG	X		
126+86 LT	G	R6-1L		X	1	48	18			1					1.00																									
	E	R5-1		X	1	36	36			1																														
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100									
SUMMARY SHEET 17		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS									
STATE OF VERMONT		SHEET TOTALS			11.00	0.00	7	1	1	8	0	5	0	0	3	1	0	0.00	15.00	0.00	1	0	0	0.00	0.00	0.00	0.00	0	0	0.00									
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	148	145	243	4	74	0	0	182	134	15	152.00	1230.00	255.00	118	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00									

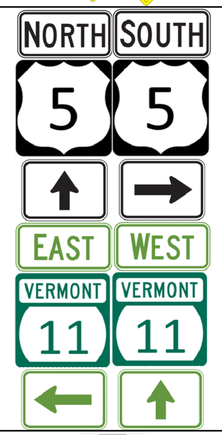
HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 17

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																					REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET					SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL													
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED																		

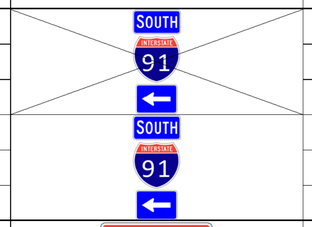
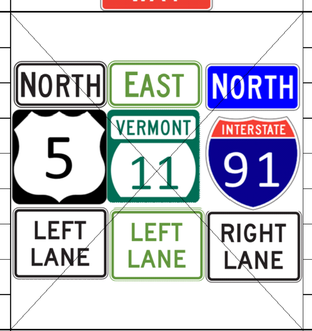
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL									
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED				SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																							
129+09 LT	H	R6-1L		X	1	48	18					1							2			30		2																
	H	R5-1		X	1	36	36					1																												
129+00 LT	J	R3-2			1	36	36					1							1			15		1	1														
	K	R4-7			1	24	30					1																												
	J,K	OM1-1		X	2	18	18					2																												
129+25 LT	J	R3-2			1	36	36				1		1						1			15		1															
	K	R4-7			1	24	30				1		1																											
	J,K	OM1-1		X	2	18	18				2		2																											
129+10 LT	F	M3-1P			1	24	12			1																											TYPE 2A FRAME (2)				
	F	M1-4			1	24	24			1																														
	F	M6-3P			1	21	15			1																														
	F	M3-2P			1	24	12			1																														
	F	VM1-5			1	24	24			1																														
	F	M6-1L			1	21	15			1					2.00																					X				
	F	M3-3P			1	24	12			1																														
	F	M1-4			1	24	24			1																														
	F	M6-1PR			1	21	15			1																														
	F	M3-4P			1	24	12			1																														
	F	VM1-5			1	24	24			1																														
	F	M6-3P			1	21	15			1																														
129+09 LT	F	R1-1			1	36	36					1							1			15		1															
129+11 LT	F	R1-1			1	36	36				1		1					1																					
129+49 LT	F	R6-1L		X	1	48	18				1		1					2																					
	G	R5-1		X	1	36	36				1		1																										
129+47 LT	F	R6-1L		X	1	48	18					1							2			30		2															
	G	R5-1		X	1	36	36					1																												
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100				6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100							
SUMMARY SHEET 19		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS							
STATE OF VERMONT		SHEET TOTALS			0.00	0.00	12	7	9	7	0	2	0	0	3	7	0	0.00	105.00	0.00	7	1	0	0.00	0.00	0.00	0.00	0	0	0.00							
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	148	145	243	4	74	0	0	182	134	15	152.00	1230.00	255.00	118	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00							

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 19

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

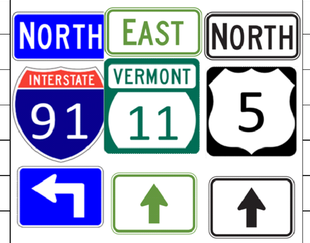
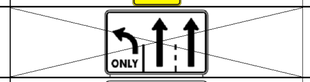
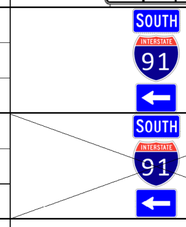
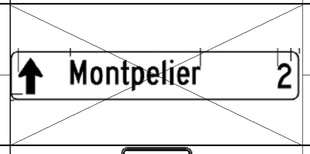
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																				REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL											
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED				SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																								
129+52 LT	F	R1-1			1	36	36				1		1					1																							
130+09 LT	E	R5-1A			1	42	30			1					2.00																										
	F	VD-502			1	72	12			1																															
	F	VD-502			1	72	12			1																															
	F	VD-502			1	72	12			1																															
	F	VD-502			1	72	12			1																															
	F	VD-502			1	72	12			1																															
130+17 LT	F	M3-3P			1	24	12				1		1					1																					WHITE ON BLUE			
	F	M1-1			1	24	24				1		1																													
	F	M6-1PL			1	21	15				1		1																											WHITE ON BLUE			
	F	M3-3P			1	24	12					1																											WHITE ON BLUE			
	F	M1-1			1	24	24					1							1	1			15	1																	
	F	M6-1PL			1	21	15					1																											WHITE ON BLUE			
130+19 LT	E	R5-1A			1	42	30			1					2																										
130+44 RT	A	M3-1P			1	24	12				1		1					2																					BLACK ON WHITE			
	A	M1-4			1	24	24				1		1																													
	A	M5-4P			1	24	18						1																											BLACK ON WHITE			
	A	M3-2P			1	24	12				1		1																											GREEN ON WHITE			
	A	VM1-5			1	24	24				1		1																													
	A	M5-4P			1	24	18						1																											GREEN ON WHITE			
	A	M3-1P			1	24	12				1		1																											WHITE ON BLUE			
	A	M1-1			1	24	24				1		1																													
	A	M5-6P			1	24	18						1																											WHITE ON BLUE			
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100				6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100										
SUMMARY SHEET 20		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS										
STATE OF VERMONT		SHEET TOTALS			0.00	0.00	7	10	3	13	0	4	0	0	4	1	1	0.00	0.00	15.00	1	0	0	0.00	0.00	0.00	0.00	0	0	0.00										
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00										

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 20

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL									
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																							
131+50 RT	A	M3-1P			1	24	12					1							2			2					2			324					X	INSTALL WITH 7' CLEAR HEIGHT TYPE 3A SIGN FRAME	WHITE ON BLUE			
	A	M1-1			1	24	24					1																											
	A	M5-1PL			1	21	15	2.19																													WHITE ON BLUE	X		
	A	M3-2P			1	24	12					1																									GREEN ON WHITE			
	A	VM1-5			1	24	24					1																											T-136
	A	M6-3P			1	21	15	2.19																													GREEN ON WHITE			
	A	M3-1P			1	24	12					1																									BLACK ON WHITE			
	A	M1-4			1	36	36					1																											
	A	M6-3P			1	21	15	2.19																													BLACK ON WHITE	X		
131+25 RT	K	W11-15			1	36	36	9.00											1			15		1													BLACK ON YELLOW	X		
	K	W16-9P			1	24	12	2.00																													BLACK ON YELLOW	X		
131+61 LT	F				1	30	48						1					1																			LEFT ONLY, STRAIGHT, STRAIGHT				
131+75 LT	F				1	30	30	6.25											1			15		1													LEFT ONLY, STRAIGHT				T-145
132+50 LT	F	M3-3P			1	24	12					1							1	1			15	1													WHITE ON BLUE			
	F	M1-1			1	24	24					1																											
	F	M6-1PL			1	21	15					1																									WHITE ON BLUE			
132+55 LT	F	M3-3P			1	24	12				1		1						1	1			15	1													WHITE ON BLUE			
	F	M1-1			1	24	24				1		1																											
	F	M6-1PL			1	21	15				1		1																									WHITE ON BLUE			
133+75 LT	F	VD1-1A			1	72	12					1							2			30		2													LEFT BELLOW FALLS 10	GREEN ON WHITE			
	F	VD1-1A			1	72	12					1																									LEFT BRATTLEBORO 33	GREEN ON WHITE			
133+89 LT	F	VD1-1A			1	72	12				1		1					2																			LEFT BELLOW FALLS 10	GREEN ON WHITE			
	F	VD1-1A			1	72	12				1		1																									LEFT BRATTLEBORO 33	GREEN ON WHITE			
134+00 RT	A				1	30	30	6.25											1			15		1													LEFT ONLY, STRAIGHT				E-145A

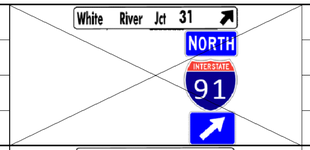
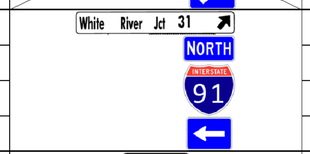
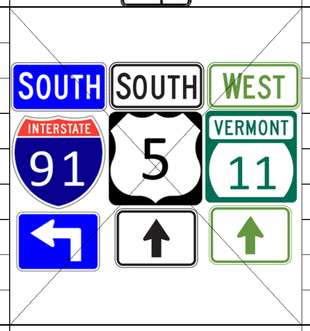
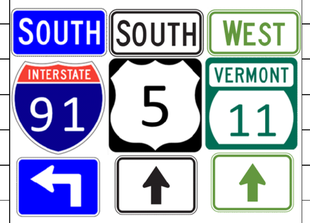
TRAFFIC SIGN	ASSOCIATED PAY ITEM (675.XXXX)	2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100											
SUMMARY SHEET 21	UNITS	SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS											
STATE OF VERMONT	SHEET TOTALS	30.06	0.00	0	5	11	6	0	0	0	0	3	9	2	0.00	75.00	30.00	7	0	2	0.00	0.00	324.00	0.00	0	0	0.00											
AGENCY OF TRANSPORTATION	PROJECT TOTALS	308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00											

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 21

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 464 OF 922

LOCATION				DOUBLE SIDED	SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET			NO. OF POSTS	SOIL BEARING SLIP BASE	SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL				SIGN FRAME REQUIRED				
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND		EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE			1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE					
CHARLESTOWN RD (Continued from previous sheet)																																								
134+09 RT	A	VD1-1A			1	72	12						1																							WHITE RIVER JCT 31 RIGHT				T-93
	A	M3-1P			1	24	12				1		1																								WHITE ON BLUE			
	A	M1-1			1	24	24				1		1																											
	A	M6-2PR			1	21	15						1																								WHITE ON BLUE			
135+50 CL	F	VD1-1A			1	72	12	6.00											2			30		2												(LEFT) WHITE RIVER JCT 31	GREEN ON WHITE			
	F	M3-1P			1	24	12					1																								WHITE ON BLUE			
	F	M1-1			1	24	24					1																												
	F	M6-1PL			1	21	15	2.19																													WHITE ON BLUE	X		
134+00 RT	A				1	30	30	6.25											1			15		1												LEFT ONLY, STRAIGHT				T-145
135+14 LT	F	M3-3P			1	24	12				1		1					2																			WHITE ON BLUE			
	F	M1-1			1	24	24				1		1																											
	F	M5-1PL			1	21	15				1		1																								WHITE ON BLUE			
	F	M3-3P			1	24	12				1		1																								BLACK ON WHITE			
	F	M1-4			1	24	24				1		1																											
	F	M6-3P			1	21	15				1		1																								BLACK ON WHITE			
	F	M3-4P			1	24	12				1		1																								GREEN ON WHITE			
	F	VM1-5			1	24	24				1		1																											
	F	M6-3P			1	21	15				1		1																								GREEN ON WHITE			
135+45 LT	F	M3-3P			1	24	12						1																								WHITE ON BLUE			
	F	M1-1			1	24	24						1																											
	F	M5-1PL			1	21	15						1																								WHITE ON BLUE			
	F	M3-3P			1	24	12						1																								BLACK ON WHITE			
	F	M1-4			1	24	24						1						2							2			324						X				
	F	M6-3P			1	21	15						1																								BLACK ON WHITE			
	F	M3-4P			1	24	12						1																								GREEN ON WHITE			
	F	VM1-5			1	24	24						1																											
	F	M6-3P			1	21	15						1																								GREEN ON WHITE			
135+38 RT	A	W13-2			1	24	30							1				1																					
135+75 RT	A	R4-7			1	24	30						1																											
	B	R3-2			1	36	36						1						1			15		1															
	A,B	OM1-1		X	2	18	18						2																											
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100									
SUMMARY SHEET 22			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS									
STATE OF VERMONT			SHEET TOTALS		14.44	0.00	0	11	15	14	0	0	0	0	3	6	0	0.00	60.00	0.00	4	0	2	0.00	0.00	324.00	0.00	0	0	0.00									
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00									

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 22

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 465 OF 922

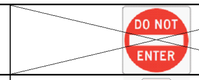
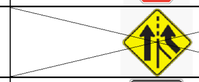
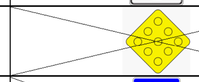
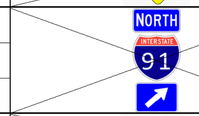
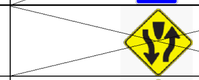
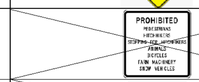
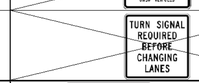
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																					REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL												
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED				SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																									
135+89 CL	A	R4-7			1	24	30				1		1					1																							
	A	R3-2			1	36	36				1		1																												
	A	OM1-1		X	2	18	18				2		2																												
136+17 RT	A	R1-1			1	18	18	2.25											1			15		1														INSTALL WITH 7' CLEAR HEIGHT		X		
136+70 LT	F	R6-1L			1	48	18						1					2																							
135+65 CL	J	R4-7			1	24	30	5.00																															BLACK ON WHITE	X		
	K	R3-2			1	36	36					1							1			15		1																
	J,K	OM1-1		X	2	18	18	6.75																																X		
136+75 LT	K	M3-1P			1	24	12					1																											WHITE ON BLUE			
	J	M1-1			1	24	24					1							1			15		1																
	J,K	M6-1PR			1	21	15					1																											WHITE ON BLUE			
138+66 LT	K	R5-1A			1	42	30						1					2																							
138+85 LT	J	R5-1A			1	42	30						1					2																							
139+79 LT	J,K	M3-1P			1	24	12						1					2																					BLACK ON WHITE			
	F	M1-4			1	24	24						1																												
	F	M6-1PL			1	21	15						1																											BLACK ON WHITE			
	F	M3-2P			1	24	12						1																											GREEN ON WHITE			
	F	VM1-5			1	24	24						1																												
	F	M6-1PL			1	21	15						1																											GREEN ON WHITE			
	F	M3-3P			1	24	12						1																											BLACK ON WHITE			
	F	M1-4			1	24	24						1																												
	F	M6-2PR			1	21	15						1																											BLACK ON WHITE			
	F	M3-4P			1	24	12						1																											GREEN ON WHITE			
	F	VM1-5			1	24	24						1																												
	F	M6-2PR			1	21	15						1																											GREEN ON WHITE			
141+48 RT	B	R3-2			1	36	36				1		1					1																							
	A	M3-1P			1	24	12				1		1					1																					WHITE ON BLUE			
	A	M1-1			1	24	24				1		1																												
	A	M6-1PL			1	21	15				1		1																											WHITE ON BLUE			
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100										
SUMMARY SHEET 23		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS										
STATE OF VERMONT		SHEET TOTALS			14.00	0.00	0	8	4	23	0	0	0	0	11	3	0	0.00	45.00	0.00	3	0	0	0.00	0.00	0.00	0.00	0	0	0.00										
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00										

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 23

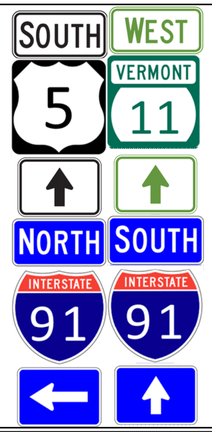
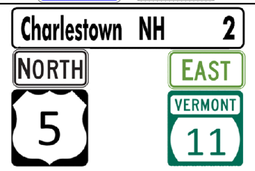
PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE
SHEET 466 OF 922

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																				REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL												
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
CHARLESTOWN RD (Continued from previous sheet)																																									
136+70 LT	E	R5-1			1	36	36						1					1																							
137+15 RT	B	R1-1			1	18	18	2.25											1			15		1														INSTALL WITH 7' CLEAR HEIGHT		X		
137+22 LT	F	W4-3R			1	36	36				1		1					2																							
138+00 CL	K	R4-7			1	24	30	5.00											1			15		1	1														BLACK ON WHITE	X		
138+62 RT	A	OM1-1			1	18	18						1					1																							
138+77 RT	A	M3-1P			1	24	12				1		1					1																							
	A	M1-1			1	24	24				1		1																										WHITE ON BLUE			
	A	M6-2PR			1	21	15						1																													
140-18 LT	F	W6-1			1	30	30				1		1					2																					WHITE ON BLUE			
	F	W6-1			1	30	30					1						2			30		2																		
141+73 RT	A	VR-046			1	36	36						1					2																							
	A	VR-002			1	36	36						1																													
142+37 RT	A	M3-3P			1	24	12				1		1					2																					BLACK ON WHITE			
	A	M1-4			1	24	24				1		1																													
	A	M6-3P			1	21	15						1																										BLACK ON WHITE			
	A	M3-1P			1	24	12						1																										WHITE ON BLUE			
	A	M1-1			1	24	24						1																													
	A	M6-1PL			1	21	15						1																										WHITE ON BLUE			
	A	M3-4P			1	24	12				1		1																										GREEN ON WHITE			
	A	VM1-5			1	24	24				1		1																													
	A	M6-3P			1	21	15				1		1																										GREEN ON WHITE			
	A	M3-3P			1	24	12				1		1																										WHITE ON BLUE			
	A	M1-1			1	24	24				1		1																													
	A	M6-3P			1	21	15				1		1																										WHITE ON BLUE			
TRAFFIC SIGN			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100											
SUMMARY SHEET 24			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS											
STATE OF VERMONT			SHEET TOTALS		7.25	0.00	0	12	1	21	0	0	0	0	11	4	0	0.00	60.00	0.00	4	1	0	0.00	0.00	0.00	0.00	0	0	0.00											
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00											

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 24

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																					REMARKS	SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL												
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED								
CHARLESTOWN RD (Continued from previous sheet)																																										
142+37 LT	A	M3-3P			1	24	12					1							2							2			324						X	TWO TYPE 2A SIGN FRAMES	BLACK ON WHITE			
	A	M1-4			1	24	24					1																													
	A	M6-3P			1	21	15	2.19																															BLACK ON WHITE	X		
	A	M3-1P			1	24	12	2.00																															WHITE ON BLUE	X		
	A	M1-1			1	24	24	4.00																																X		
	A	M6-1PL			1	21	15	2.19																															WHITE ON BLUE	X		
	A	M3-4P			1	24	12					1																											GREEN ON WHITE			
	A	VM1-5			1	24	24					1																													
	A	M6-3P			1	21	15					1																											GREEN ON WHITE			
	A	M3-3P			1	24	12					1																											WHITE ON BLUE			
	A	M1-1			1	24	24					1																													
	A	M6-3P			1	21	15					1																											WHITE ON BLUE			
143+13 RT	A	VD2-1 (GREEN)			1	72	12			1					2																							CHARLESTOWN NH 2			
	A	M3-1P			1	24	12			1																																
	A	M1-4			1	24	24			1																																
	A	M3-2P			1	24	12			1																																
	A	VM1-5			1	24	24			1																																
US ROUTE 5																																										
1117+36 LT	F	R5-2			1	24	24			1					1.00																										
	F	R12-3			1					1																																
1117+43 LT	F	VR-032			1	30	24			1					1.00																										
	F				1	18	12			1																													"VIOLATORS WILL BE TOWED AT OWNERS EXPENSE"			
	F	R7-201P			1	10	6			1																																
1117+79 LT	F	D4-2			1	30	36			1					1.00																										
1118+02 RT	A	D11-1			1	24	18				1		1					1																						
	A	M6-4P			1	21	15						1																										WHITE ON GREEN			
1118+02 LT	F	W12-2			1	36	36			1					2.00																										
	F	W16-3AP			1	30	12			1																																
TRAFFIC SIGN		ASSOCIATED PAY ITEM (675.XXXX)			2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100											
SUMMARY SHEET 25		UNITS			SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS										
STATE OF VERMONT		SHEET TOTALS			10.38	0.00	13	1	8	2	0	7	0	0	1	2	0	0.00	0.00	0.00	0	0	2	0.00	0.00	324.00	0.00	0	0	0.00										
AGENCY OF TRANSPORTATION		PROJECT TOTALS			308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00										

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 25

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

LOCATION				SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																		REMARKS	SHEETING REMARKS	SIGN DETAIL		
										RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL									
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED			SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
US ROUTE 5 (Continued from previous sheet)																																							
1118+09 RT	A	W3-1a			1	18	18						1					1																					
1118+23 RT	A	W3-1a			1	18	18						1					1																					
1118+02 RT	A	R1-1			1	18	18				1		1					1																					
1118+05 RT	A	R1-1			1	18	18				1		1					1																					
1118+02 RT	A	W3-1a			1	18	18						1					1																					
1118+33 RT	J	D11-1			1	24	18				1							1																					
	J	M6-4P			1	21	15				1																													
1118+84 RT	A	D11-1			1	24	18					1							1			15		1															
	A	M6-4P			1	21	15					1																													
I-91 NB EXISTING ON RAMP																																							
2022+41 RT	A	W4-1L			1	48	48						1					2																				BLACK ON YELLOW			
2023+14 LT	J	R1-2			1	36	36						1					1																					
SHARED USE PATH																																							
2025+09 RT	A	W3-1			1	30	30						1					2																					
2025+09 LT	J	W3-1			1	30	30						1					2																					
2026+02 LT	J	W1-8R			1	36	48						1					1																					
2026+75 RT	J	W1-8R			1	36	48						1					1																					
2027+34 LT	J	R5-3			1	24	24	4.00											1			15		1												INSTALL WITH 7' CLEAR HEIGHT		X		
	J	D11-1			1	24	18					1																												
TRAFFIC SIGN SUMMARY SHEET 26			ASSOCIATED PAY ITEM (675.XXXX)		2000	2100			6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100									
			UNITS		SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS									
STATE OF VERMONT			SHEET TOTALS		4.00	0.00	0	4	3	11	0	0	0	0	15	2	0	0.00	30.00	0.00	2	0	0	0.00	0.00	0.00	0.00	0	0	0.00									
AGENCY OF TRANSPORTATION			PROJECT TOTALS		308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00									

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 26

PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE

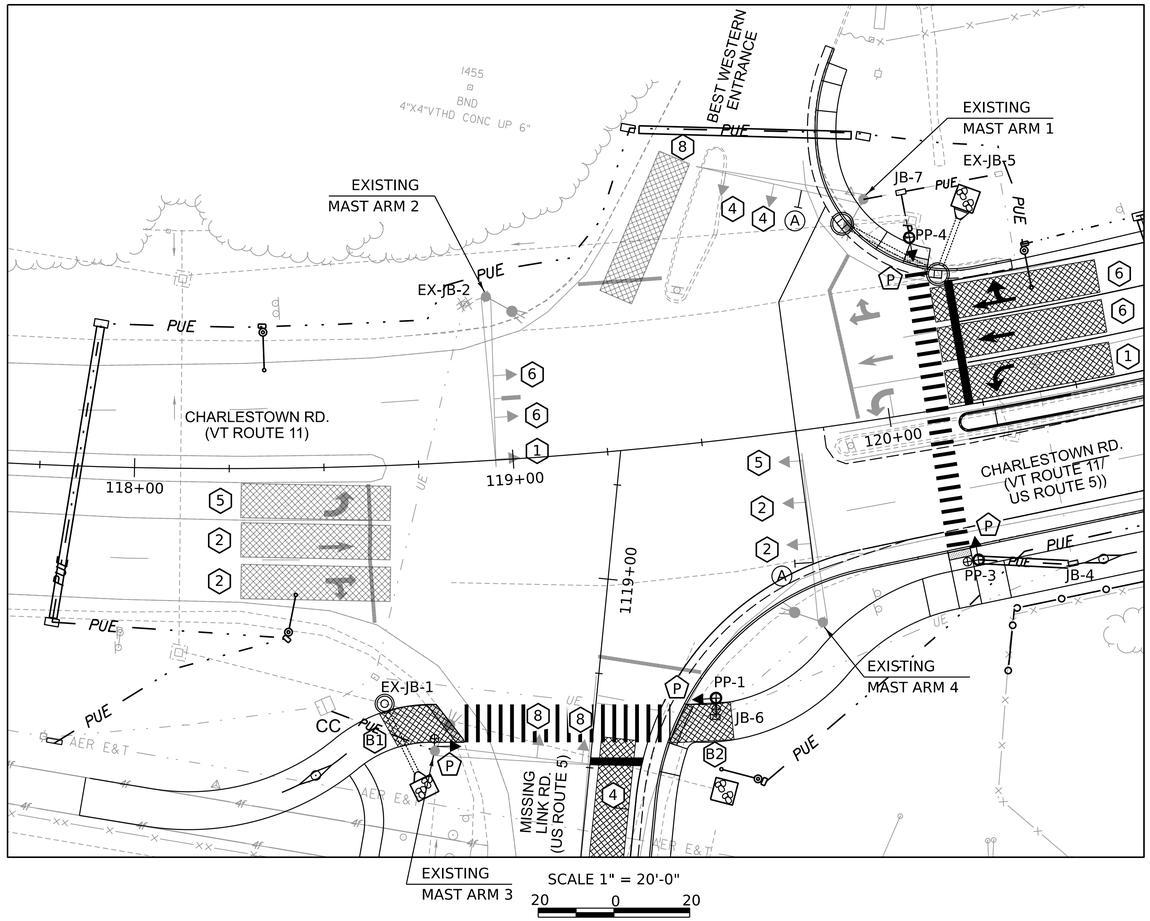
LOCATION					SIGN DIMENSIONS			NEW SIGNS		EXISTING SIGNS					EXIST POSTS				NEW SIGN POSTS																					SHEETING REMARKS	SIGN DETAIL		
											RESET		REMOVE			RESET						SQUARE STEEL (in)					TUBULAR STEEL φ (in)					W-SHAPE STEEL											
MILEMARKER OR STATION	LOCATION CODE	SIGN DESIGNATION	SIGN LEGEND	DOUBLE SIDED	EA	WIDTH (in)	HEIGHT (in)	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	FLAT SHEET ALUMINUM	EXTRUDED ALUMINUM SHEET	RETAIN	ORIGIN	DESTINATON	REMOVE	NO. OF POSTS	SOIL BEARING SLIP BASE	1.75	2	2.5	ANCHOR	SLEEVE	FOUNDATION	3	3.5	4	5	FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS		SHSM	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
I-91 NB EXISTING ON RAMP (Continued from previous sheet)																																								
2023+14 LT	J	R1-2			1	36	36						1					1																							
SHARED USE PATH																																									
2025+09 RT	A	W3-1			1	30	30						1					2																							
2025+09 LT	J	W3-1			1	30	30						1					2																							
2026+02 LT	J	W1-8R			1	36	48						1					1																							
2026+75 RT	J	W1-8R			1	36	48						1					1																							
2027+34 LT	J	R5-3			1	24	24	4.00											1			15		1												INSTALL WITH 7' CLEAR HEIGHT		X		
	J	D11-1			1	24	18					1																												
TRAFFIC SIGN SUMMARY SHEET 27	ASSOCIATED PAY ITEM (675.XXXX)				2000	2100				6000	5000	5100			6100			3500	3410	3410	3410			4300	3300	3300	3300	3300	4100	4200	3100								
	UNITS				SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LBS	LBS	LBS	LBS	EA	EA	LBS								
STATE OF VERMONT	SHEET TOTALS				4.00	0.00	0	0	1	5	0	0	0	0	7	1	0	0.00	15.00	0.00	1	0	0	0.00	0.00	0.00	0.00	0	0	0.00								
AGENCY OF TRANSPORTATION	PROJECT TOTALS				308.98	0.00	118	139	137	239	7	74	0	0	180	126	15	104.00	1200.00	255.00	110	3	14	456.00	0.00	1296.00	438.00	4	0	1200.00								

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574tss
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
TRAFFIC SIGN SUMMARY SHEET 27

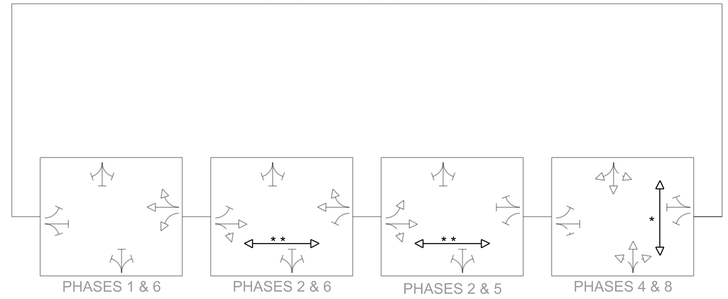
PLOT DATE: 12-JUN-2026
DRAWN BY: K. PURNOMO
CHECKED BY: P. MCKECHNIE



N

VT STATE PLANE GRID

PHASING DIAGRAM



— — PERMISSIVE MOVEMENTS
* UPON PUSH BUTTON ACTUATION
** UPON PUSH BUTTON OR BIKE DETECTION ACTUATION

PROPOSED/EXISTING SIGNAL FACE ARRANGEMENTS



13
FACE P
12" LED LENSES

MAST ARM & POLE MOUNTED SIGNS



Ⓐ
PP-1, EX MAP-3
PP-1, PP-3, PP-4, EX MAP-3

SEE TRAFFIC SIGN SUMMARY SHEETS FOR SIGN DETAILS

TRAFFIC SIGNAL LEGEND	
JB	JUNCTION BOX
CC	CONTROLLER CABINET
PP	PEDESTRIAN PEDESTAL POST
→2	SIGNAL HEAD WITH PHASE NO.
→P	PEDESTRIAN SIGNAL HEAD WITH PED PHASE
PUE	WIRED CONDUIT
PUE	WIRED CONDUIT IN ELECTRICAL CONDUIT SLEEVE
→Ⓐ	MAST ARM-MOUNTED SIGN
2	STOP BAR DETECTION AREA
	360 DEGREE CAMERA
	LUMINAIRE

TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION (VT 11 & US 5)
SEE LIST OF MAJOR EQUIPMENT (TRAFFIC SIGNAL LAYOUT 2)

PEDESTAL POST ASSEMBLY
PP-1 = STA 119+47, 67.5' RT
PP-3 = STA 120+17, 40.8' RT
PP-4 = STA 120+13, 46.1' LT

PEDESTRIAN SIGNAL ASSEMBLY
EX MAP 3 = STA 118+76, 75.8' RT
PP-1 = STA 119+47, 67.5' RT
PP-3 = STA 120+17, 40.8' RT
PP-4 = STA 120+13, 46.1' LT

JUNCTION BOX
JB-4 = STA 120+40, 46.1' RT
JB-6 = STA 119+46, 72.5' RT
JB-7 = STA 120+13, 58.2' LT

WIRED CONDUIT, 2 INCH
SEE CONDUIT SCHEDULE
(SEE TRAFFIC SIGNAL LAYOUT 2)

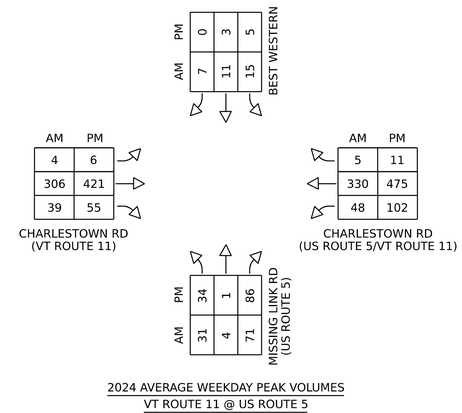
NOTES:

1. CALL DIG SAFE PRIOR TO PERFORMING ANY EXCAVATION WORK (1-888-DIG-SAFE). THE STATE OF VERMONT AND TOWNS ARE NOT MEMBERS OF DIG SAFE AND MUST BE CONTACTED SEPARATELY, PRIOR TO BEGINNING WORK.

2. ALL NEW PEDESTRIAN PUSH BUTTON INSTALLATIONS SHALL BE CONSTRUCTED SUCH THAT THE BUTTON FACE IS PARALLEL WITH THE CROSSWALK SERVED AND LOCATED WITHIN 10 INCHES OF AN ACCESSIBLE SURFACE.

3. FURNISH AND INSTALL CONDUIT UNDER ROADWAY AS SHOWN. CONDUITS UNDER ROADWAY SHALL EXTEND 10' FROM EDGE OF ROADWAY.

4. SEE LIGHTING PLANS FOR ADDITIONAL INFORMATION RELATED TO LIGHT POLES AND CONDUITS.



2024 AVERAGE WEEKDAY PEAK VOLUMES
VT ROUTE 11 @ US ROUTE 5

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_tsps.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: J. CHIN	CHECKED BY: K. WENNERS
TRAFFIC SIGNAL LAYOUT 1	SHEET 471 OF 922

HNTB

CONTROLLER TIMING CHART

PHASE	1	2	3	4	5	6	7	8
IN USE	X	X		X	X	X		X
TRAFFIC MOVEMENT	WBL	EBT		NBT	EBL	WBT		SBT
MIN. GREEN	5	8		5	5	8		5
MAX 1	15	20		13	10	25		12
YELLOW CLEARANCE	4	4		4	4	4		4
ALL RED CLEARANCE	2.5	2.5		2.5	2.5	2.5		3.5
VEHICLE EXTENSION	3	3		3	3	3		3
RECALL MODE		SOFT				SOFT		
WALK		7		7				
PED CLEAR		31		18				

*3 SECOND LEADING PEDESTRIAN INTERVAL SHALL
PRECEDE ALL PHASES WITH PEDESTRIAN CLEARANCES

CONDUIT SCHEDULE

LOCATION	LENGTH (#) (FT)	DESCRIPTION
CC TO EX MAP 3	(2) 30	TRAFFIC SIGNAL
JB-6 TO PP-1	(2) 5	TRAFFIC PEDESTRIAN SIGNAL
JB-4 TO PP-3	(2) 25	TRAFFIC PEDESTRIAN SIGNAL
EX-JB-5 TO JB-7	(2) 24	TRAFFIC SIGNAL
JB-7 TO EX MAP 1	(2) 9	TRAFFIC SIGNAL
JB-7 TO PP-4	(2) 12	TRAFFIC PEDESTRIAN SIGNAL
SUBTOTAL	210	
ROUNDING	10	
TOTALS	220	

ACTION PLAN

PLAN NO.	PATTERN	FLASH	REFERENCE
1	1	NO	MAX 1

SCHEDULE PLAN

SCHEDULE NO.	DAY PLAN	DAYS	DATES
1	1	MON-SUN	1-31

LIST OF MAJOR EQUIPMENT

VT ROUTE 11 @ US ROUTE 5	QUANTITY	REMARKS
625.6000 - WIRED CONDUIT (2 INCH CONDUIT)	220 LF	
625.7010 - JUNCTION BOX	3	INCLUDES 3 NEW JUNCTION BOXES AND REMOVAL OF 1 EXISTING JUNCTION BOX
678.2015 - PEDESTAL POST ASSEMBLY	3	INCLUDES PEDESTRIAN PEDESTAL POLE ON NEW FOUNDATION.
678.2020 - PEDESTRIAN SIGNAL ASSEMBLY	4	INCLUDES ACCESSIBLE PEDESTRIAN PUSH BUTTON ASSEMBLIES, COUNTDOWN PEDESTRIAN SIGNAL HEADS AND ADJUSTMENTS TO SIGNAL TIMING.

TRAFFIC SIGNAL SYSTEM NOTES

DETECTOR MAPPING NOTES

1. CONTRACTOR SHALL MAINTAIN STOP BAR DETECTION. CONTRACTOR SHALL MAINTAIN VEHICLE DETECTION ON THE MAINLINE APPROACHES FOR DILEMMA ZONE.

TRAFFIC SIGNAL NOTES

1. WHERE WORK WOULD LEAVE HOLES IN EXISTING SIGNAL EQUIPMENT, INCLUDING POLES, THOSE HOLES SHALL BE PLUGGED/REPAIRED USING METHODS APPROVED BY THE ENGINEER AND SHALL BE INCIDENTAL TO ALL OTHER SIGNAL ITEMS.

2. A UNIFORMED TRAFFIC OFFICER WITH BLUE LIGHT SHALL BE PRESENT DURING ALL LANE CLOSURES WHEN THE SIGNAL IS IN FLASH OPERATION, AND WHEN THE SIGNAL IS DARK.

SIGNAL TIMING NOTES

1. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATIONS AND/OR ADDITIONAL FIELD STUDIES.

2. ALL SIGNALS SHALL DWELL ON CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) UNLESS OTHERWISE NOTED.

3. THE CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) THRU PHASE SHALL BE USED FOR THE START-UP PHASE FOLLOWING FLASH OPERATIONS.

4. MODIFICATION TO THE SIGNAL TIMING SHALL BE INCIDENTAL TO ITEM 678.2020 - PEDESTRIAN SIGNAL ASSEMBLY.

TRAFFIC SIGNAL CONDUIT NOTES

1. WHEN CONDUIT IS PLACED BELOW THE ROADWAY OR ACROSS SIDE ROADS, IT SHALL BE PLACED IN A STEEL OR HDPE SLEEVE. SIZE AND PAYMENT METHOD ARE SHOWN IN THE LAYOUT SHEETS.

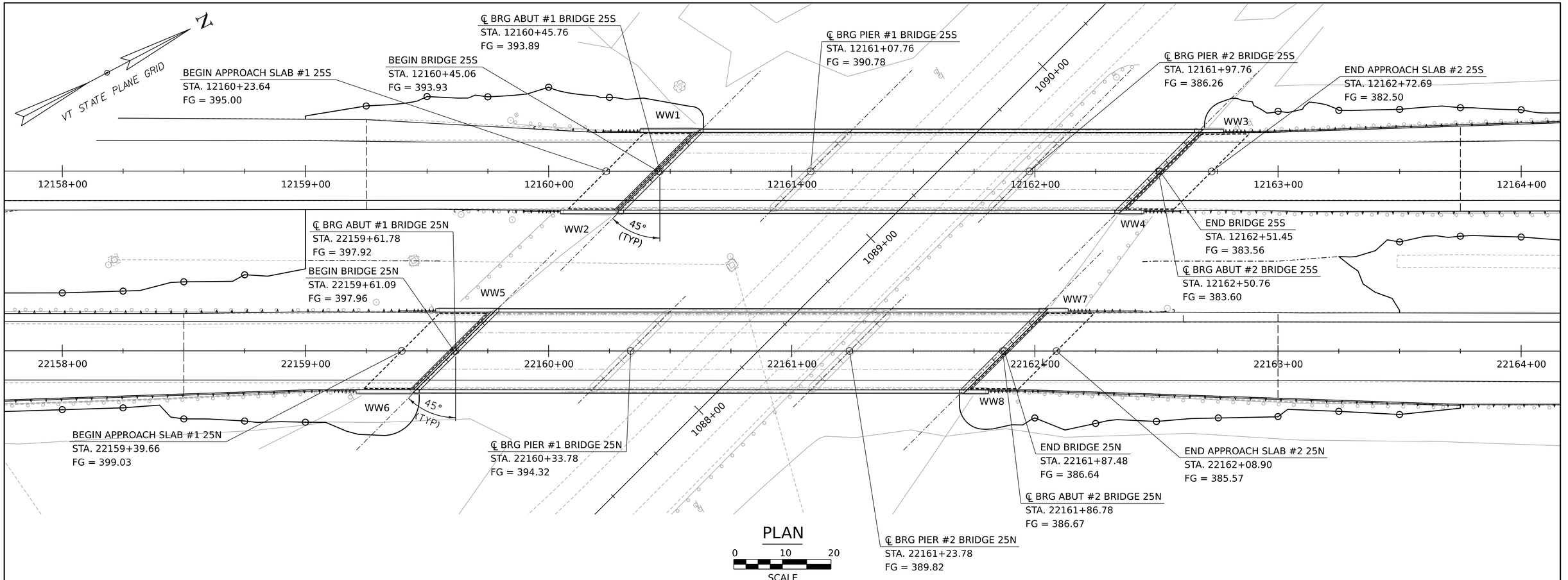
2. ALL CONDUIT SHALL BE FILLED WITH STEEL WOOL PRIOR TO BEING CAPPED.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574_bdr_tsps.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: J. CHIN
TRAFFIC SIGNAL LAYOUT 2

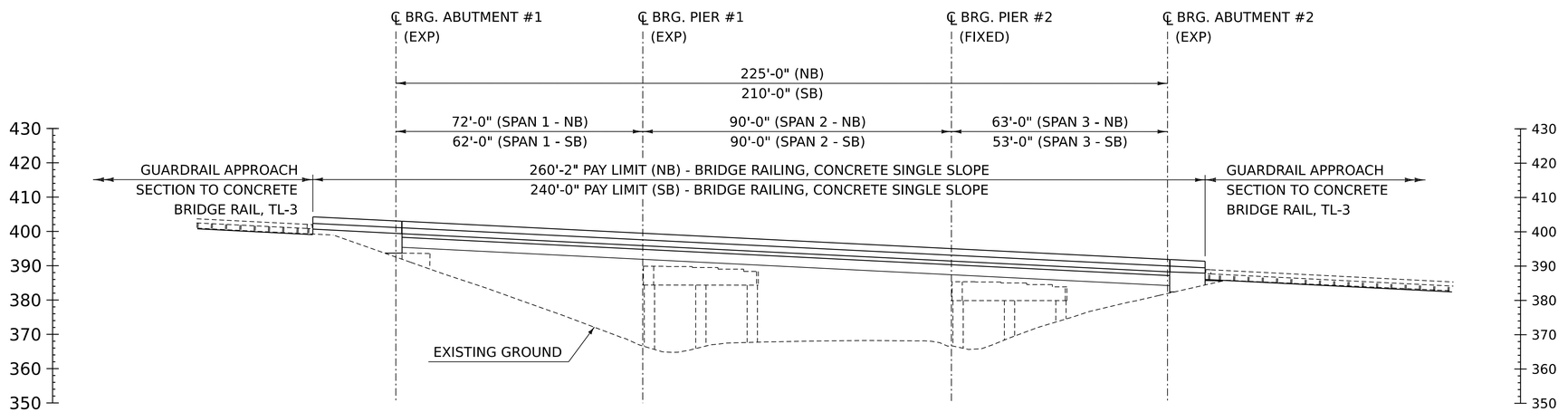
PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: K. WENNERS
SHEET 472 OF 922



PLAN

0 10 20

SCALE



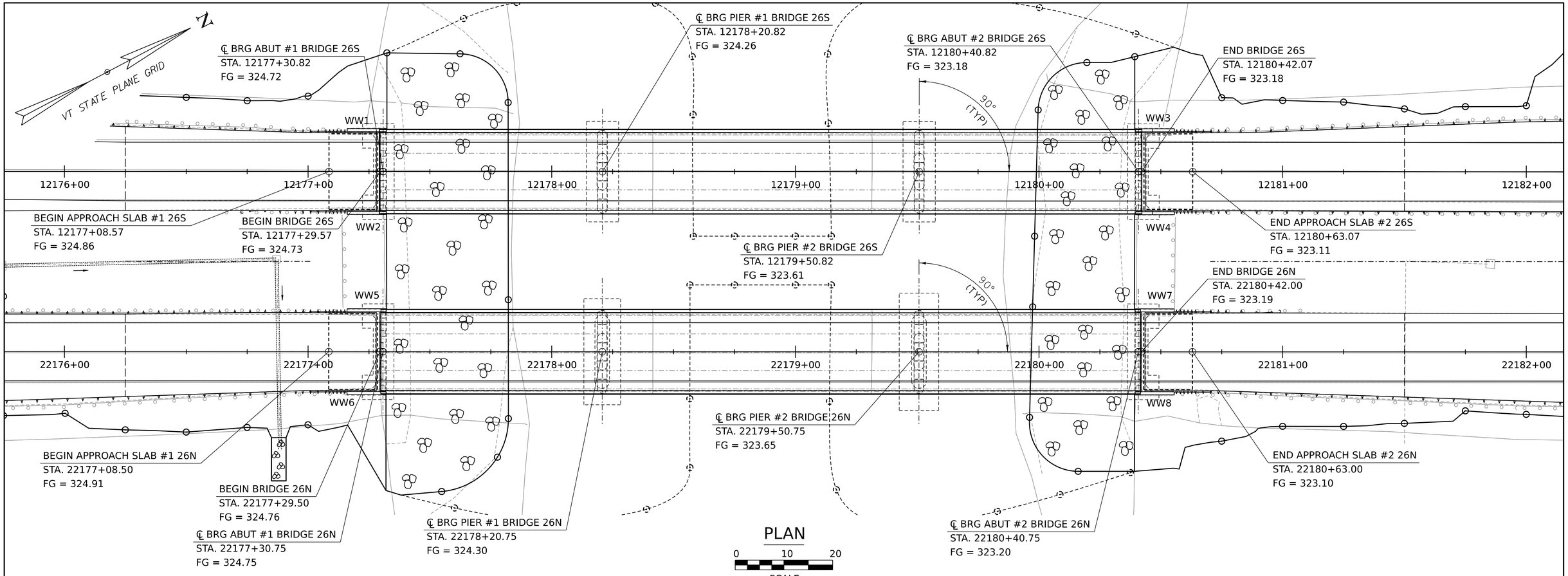
ELEVATION

0 10 20

SCALE

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574pe25	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	E. BEAUSOLEIL
DESIGNED BY:	T. POULIN	CHECKED BY:	J. OLUND
BRIDGE 25 PLAN AND ELEVATION		SHEET	473 OF 922

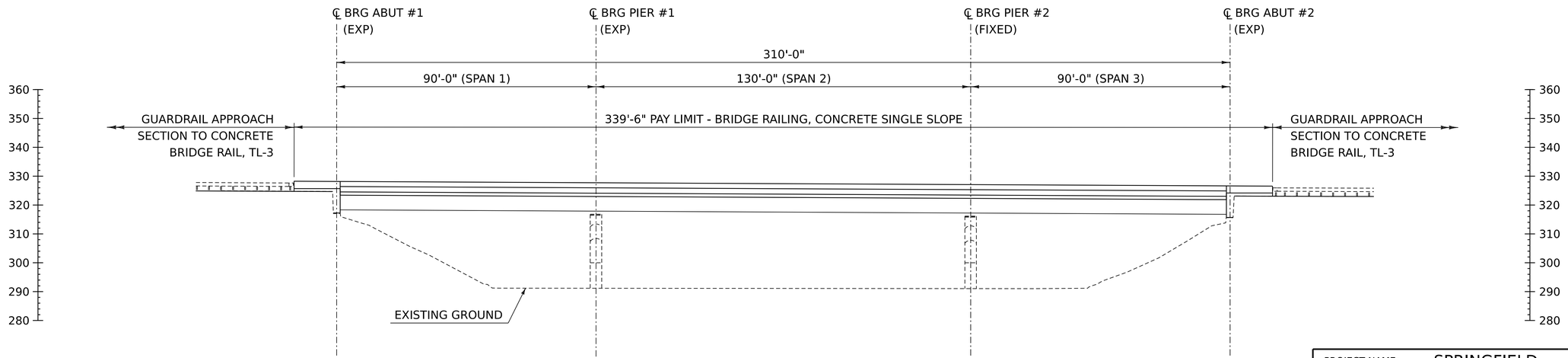
HNTB



PLAN

0 10 20

SCALE



ELEVATION

0 10 20

SCALE

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pe26	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: E. BEAUSOLEIL
DESIGNED BY: T. POULIN	CHECKED BY: J. OLUND
BRIDGE 26 PLAN AND ELEVATION	SHEET 474 OF 922

HNTB

℄ BRG ABUT #1 BRIDGE 28S
STA. 12199+88.50
FG. 365.13

BEGIN APPROACH SLAB #1 28S
STA. 12199+67.62
FG. 365.05

WW1

WW2

WW3

WW4

12199+00

12200+00

12201+00

12202+00

12203+00

END APPROACH SLAB #2 28S
STA. 12200+95.92
FG. 364.91

END BRIDGE 28S
STA. 12201+75.92
FG. 365.00

TEMPORARY
CONSTRUCTION LIMITS

VT STATE PLANE GRID

℄ BRG ABUT #2 BRIDGE 28S
STA. 12201+75.07
FG. 365.01

℄ PIER #1 BRIDGE 28S
STA. 12200+89.65
FG. 365.24

15°
(TYP)

BEGIN BRIDGE 28S
STA. 12199+87.62
FG. 365.13

BEGIN APPROACH SLAB #1 28N
STA. 22200+39.13
FG. 363.74

℄ BRG ABUT #2 28N
STA. 22202+40.01
FG. 361.86

℄ PIER #1 BRIDGE 28N
STA. 22201+60.98
FG. 362.81

END BRIDGE 28N
STA. 22202+40.86
FG. 361.84

10°
(TYP)

WW5

WW6

WW7

WW8

22199+00

22200+00

22201+00

22202+00

22203+00

22204+00

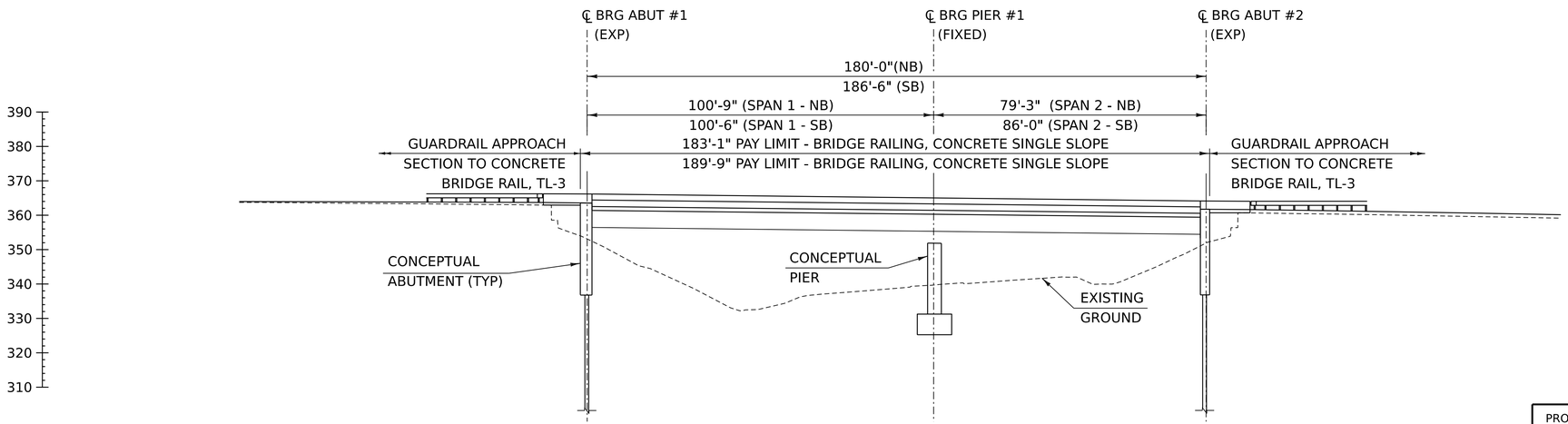
BEGIN BRIDGE 28N
STA. 22200+59.13
FG. 363.64

℄ BRG ABUT #1 BRIDGE 28N
STA. 22200+59.98
FG. 363.63

END APPROACH SLAB #2 28N
STA. 22200+60.86
FG. 361.55

PLAN

0 10 20
SCALE

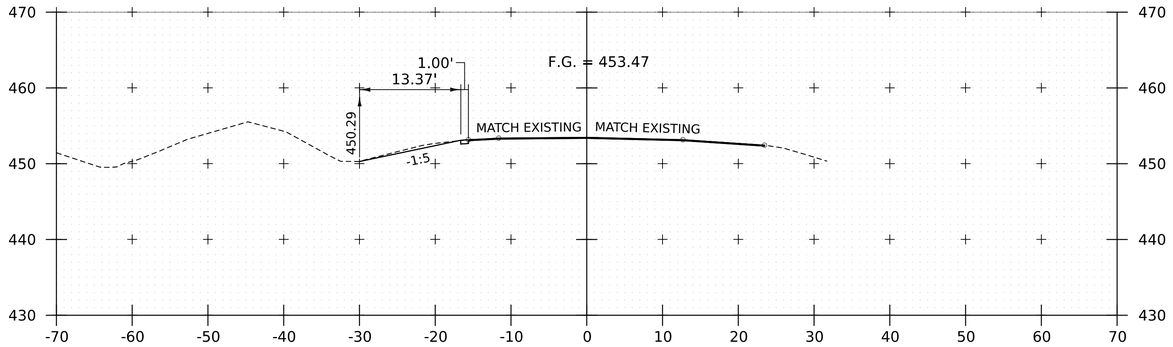


ELEVATION

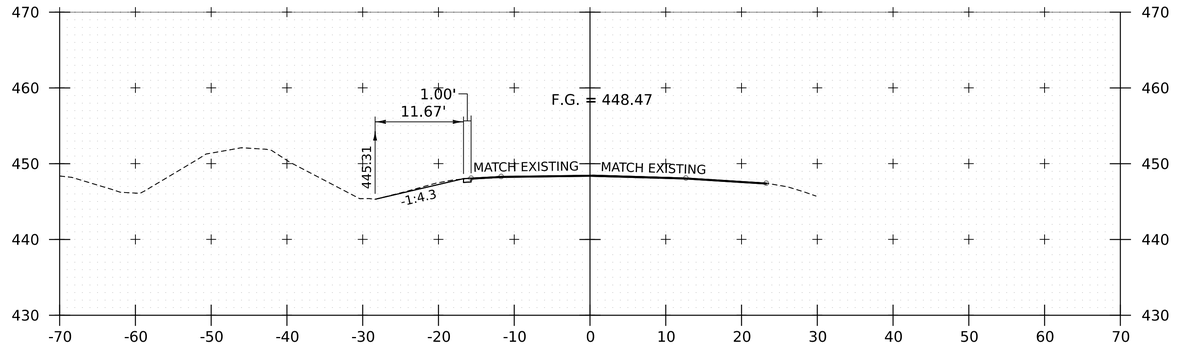
0 10 20
SCALE

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574pe28	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: E. BEAUSOLEIL
DESIGNED BY: T. POULIN	CHECKED BY: J. OLUND
BRIDGE 28 PLAN AND ELEVATION	SHEET 475 OF 922

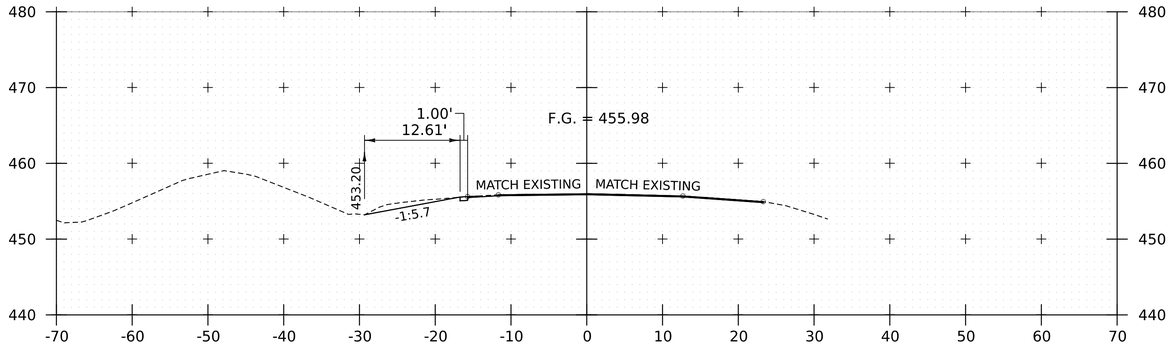
HNTB



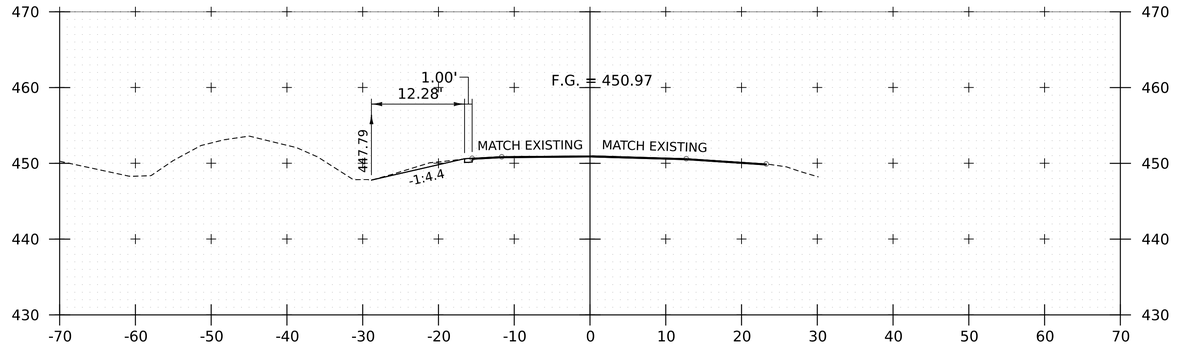
22148+50



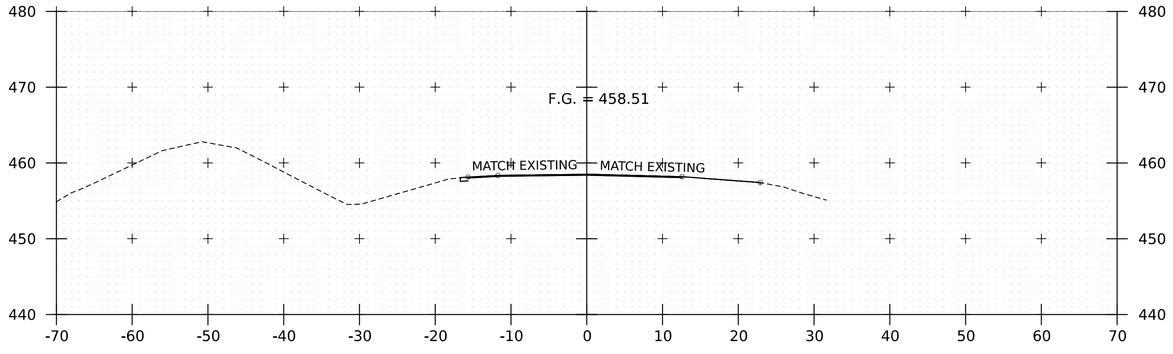
22149+50



22148+00



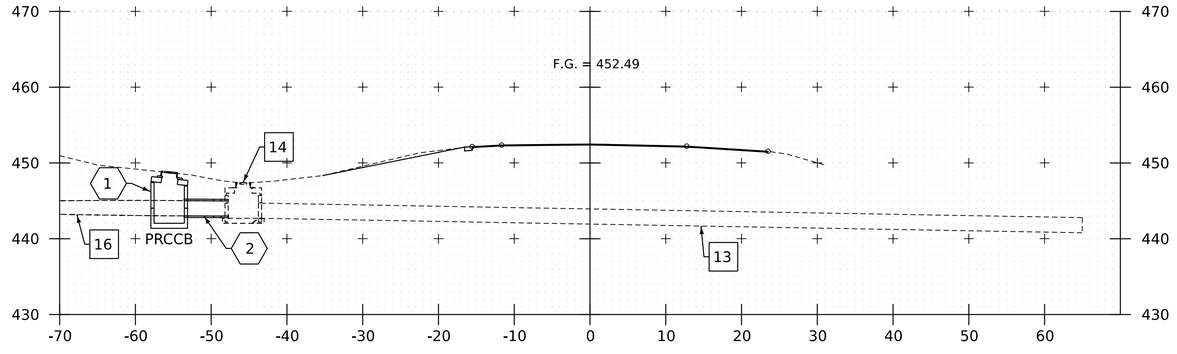
22149+00



22147+50

BEGIN I-91 NORTHBOUND APPROACH

STA. 22143+00

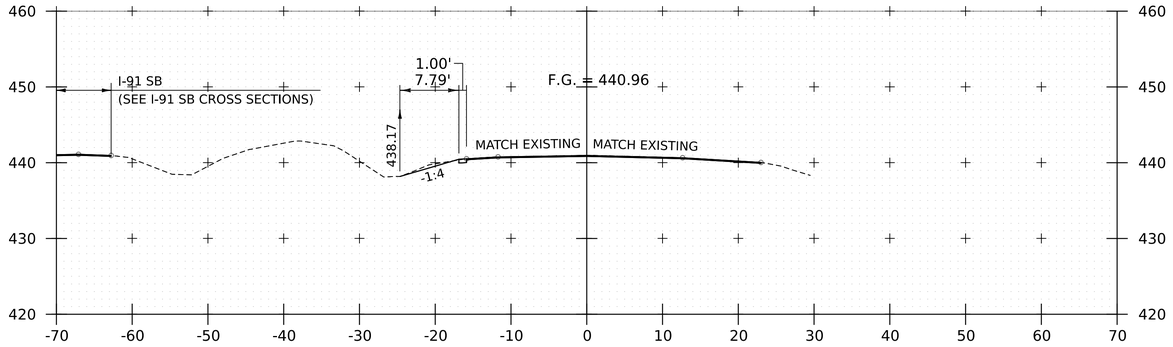


22148+70 (SKEWED ALONG PIPE)

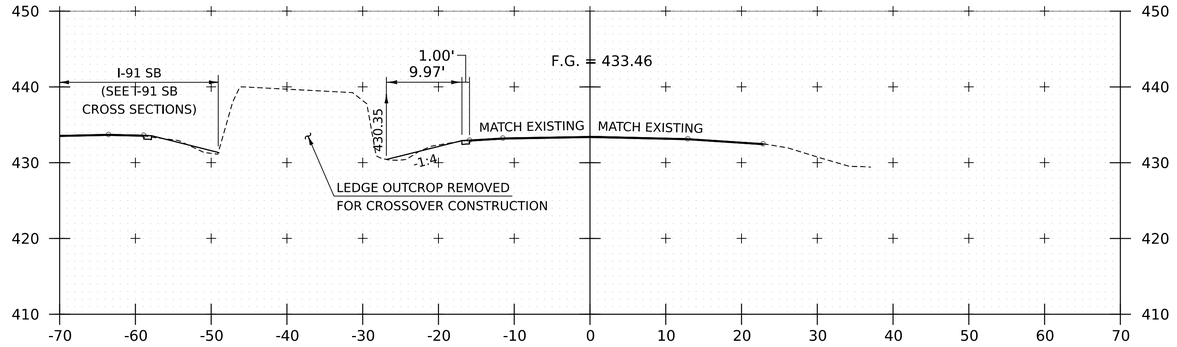
NOTE:
1. REFER TO MATERIAL TRANSITION DETAILS FOR MILL AND FILL AREA BETWEEN STA. 22143+00 AND 22147+50.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

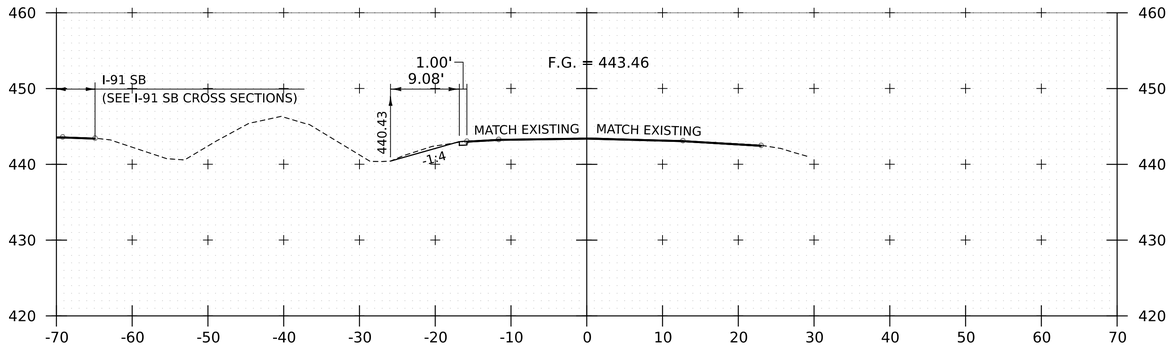
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 1	SHEET 476 OF 922



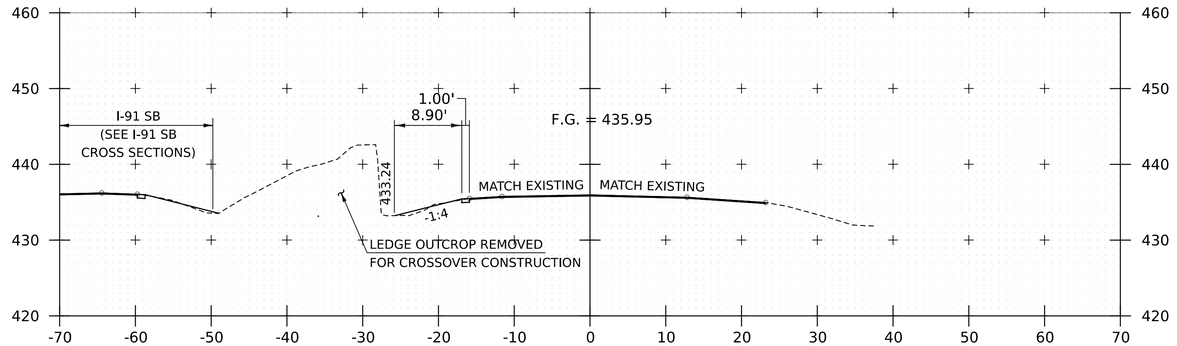
22151+00



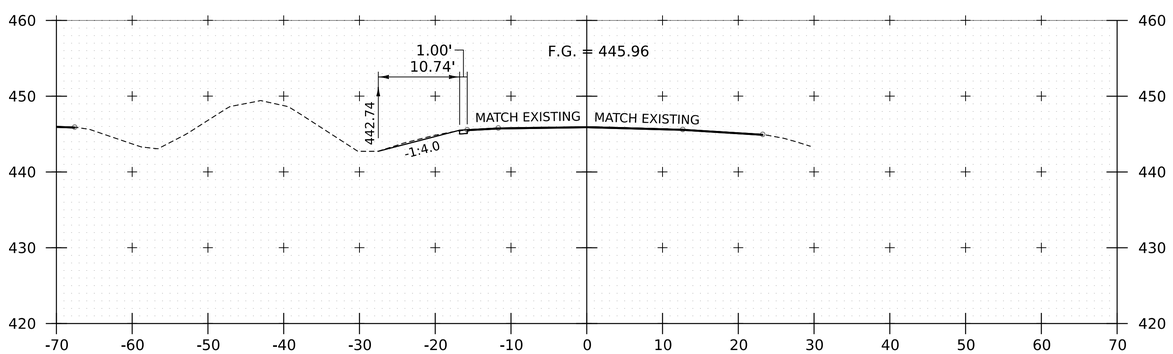
22152+50



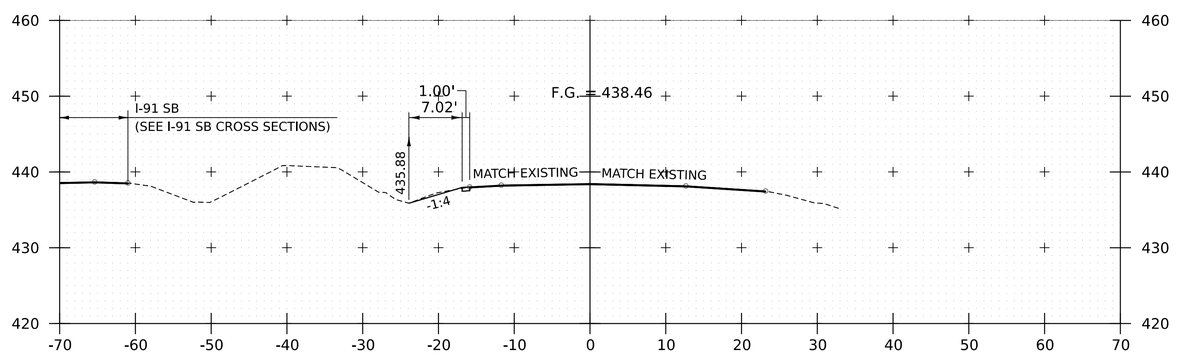
22150+50



22152+00



22150+00

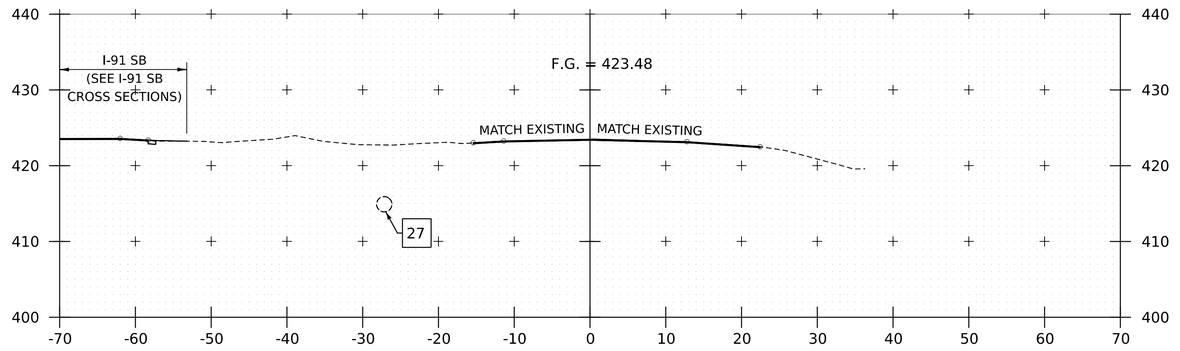


22151+50

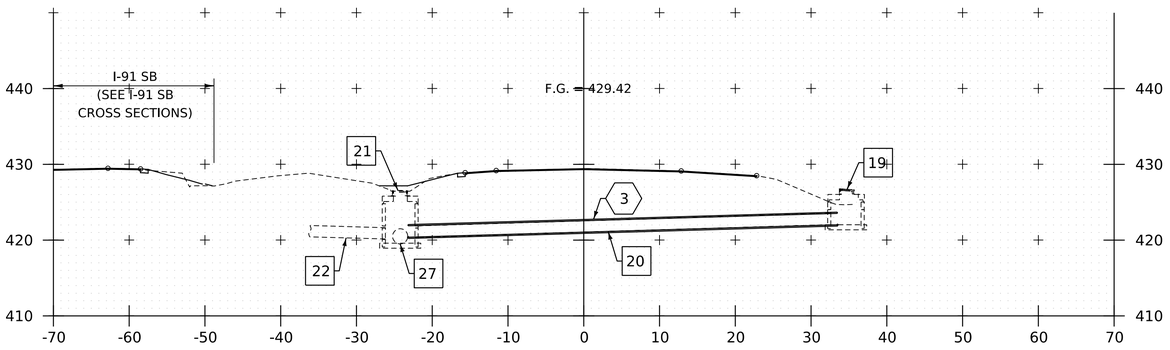
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

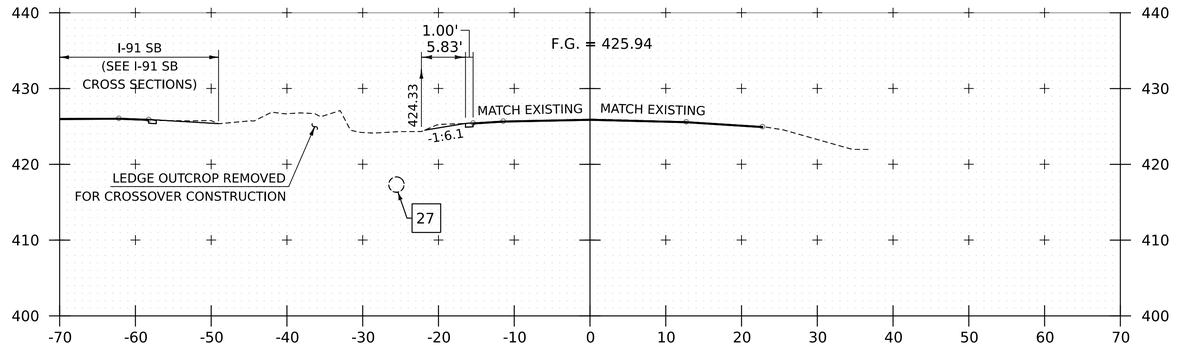
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 2	SHEET 477 OF 922



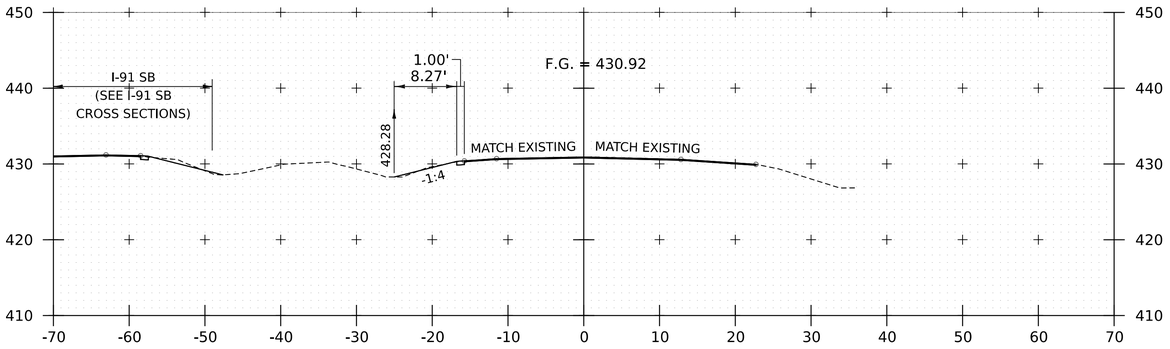
22154+50



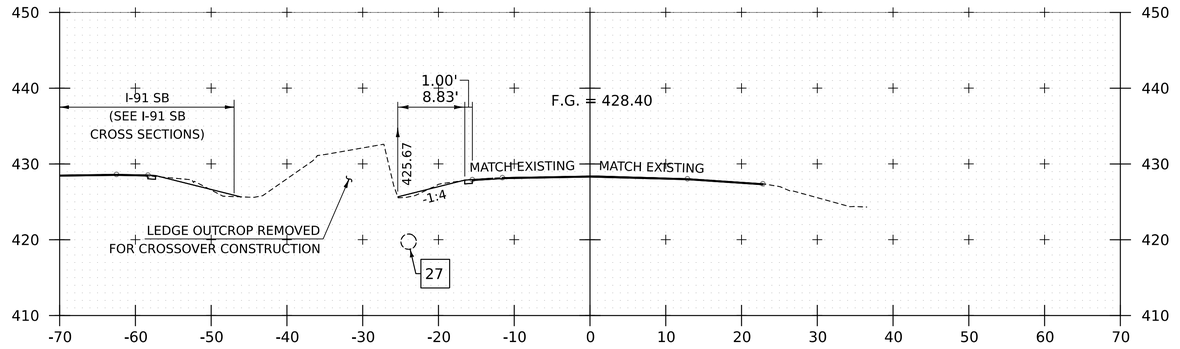
22153+30 (SKEWED ALONG PIPE)



22154+00



22153+00

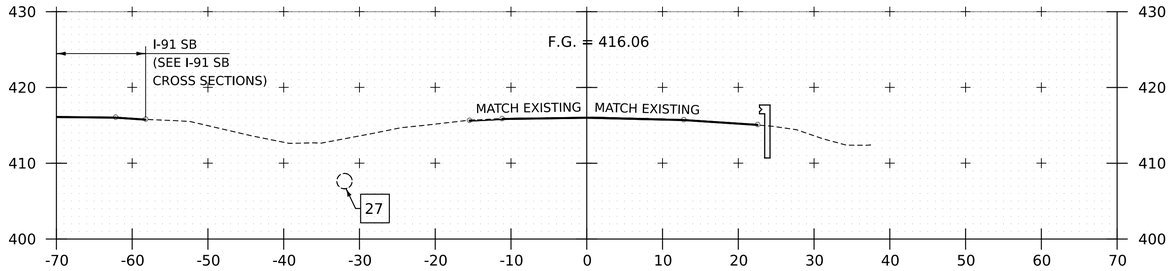


22153+50

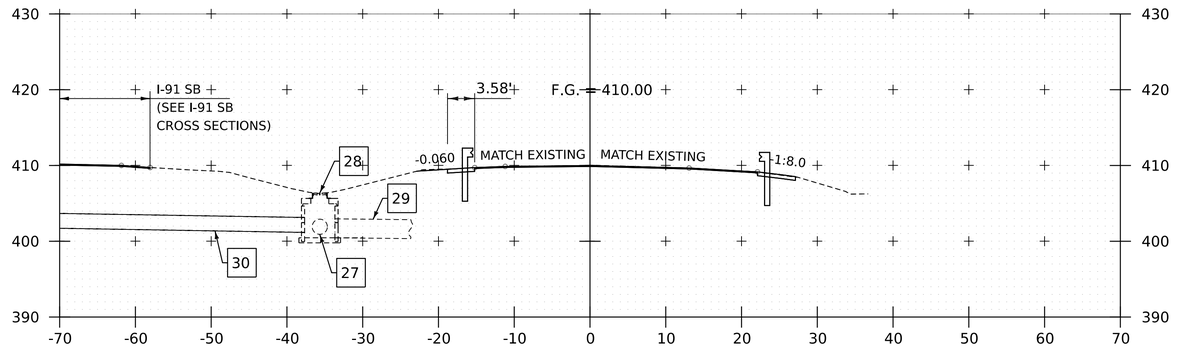
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

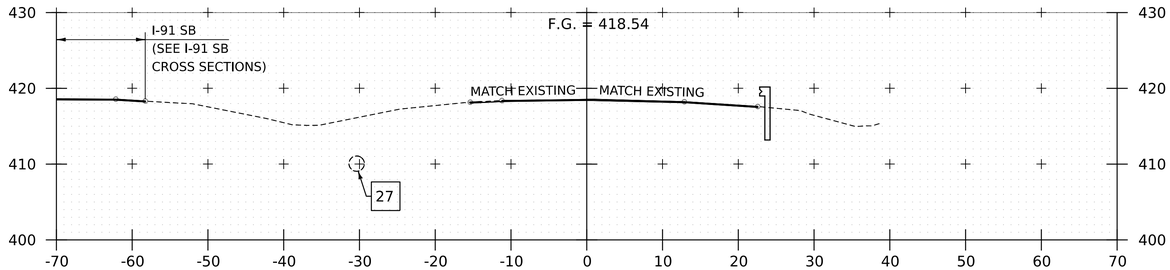
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 3	SHEET 478 OF 922



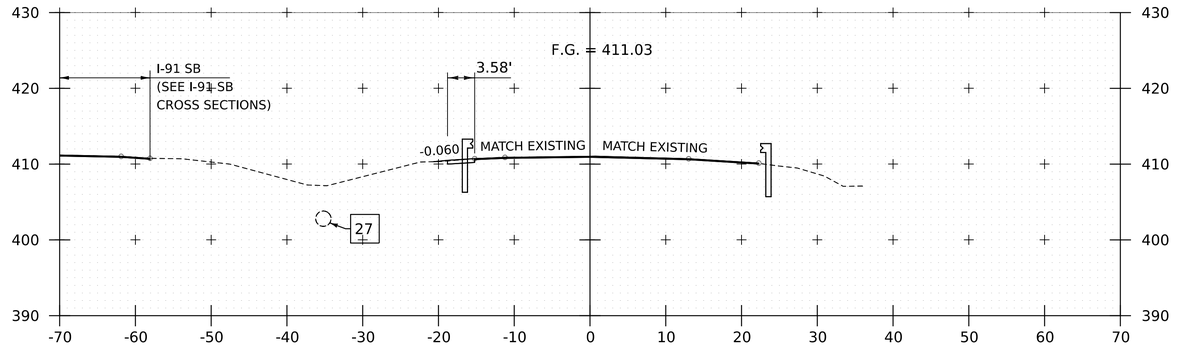
22156+00



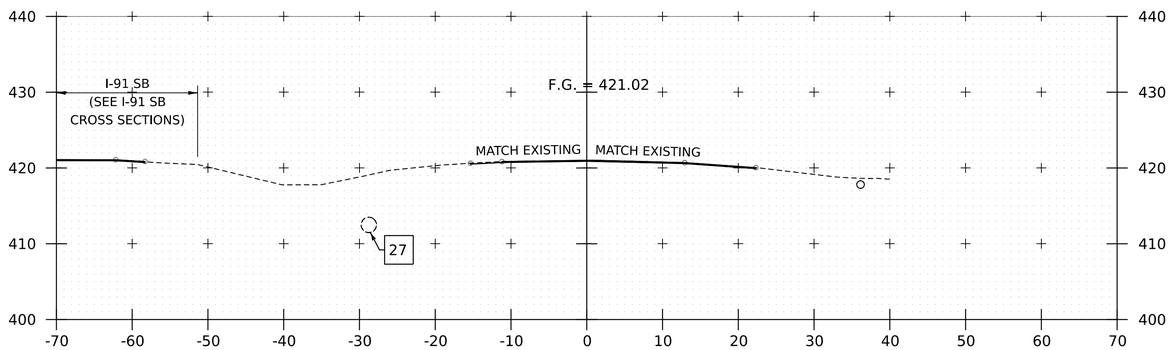
22157+20



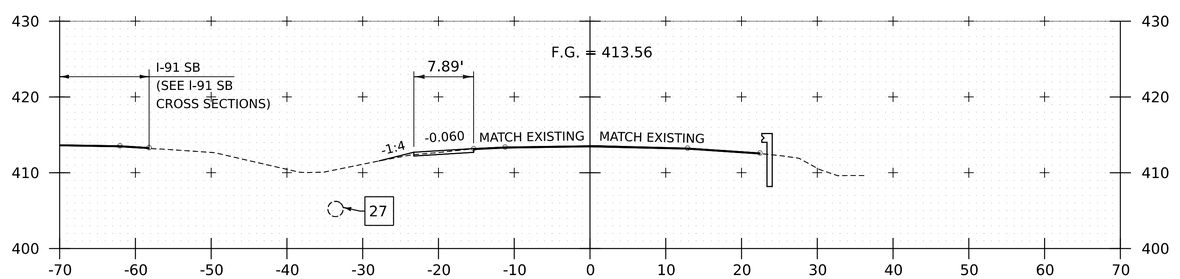
22155+50



22157+00



22155+00

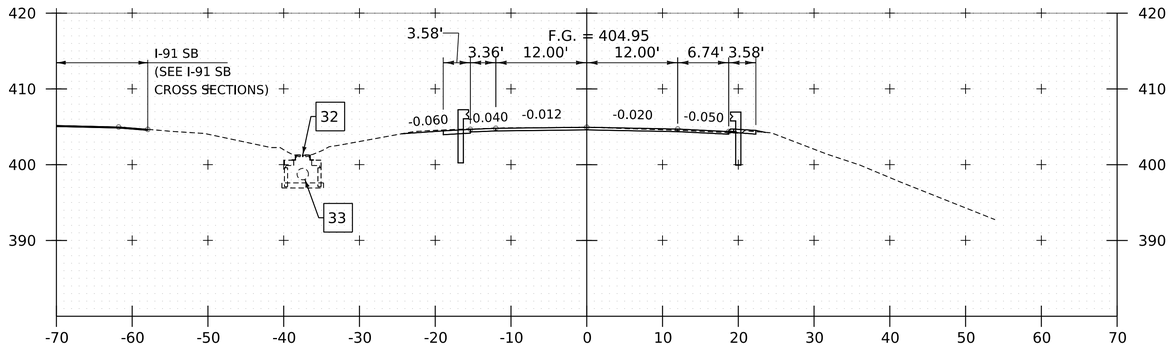


22156+50

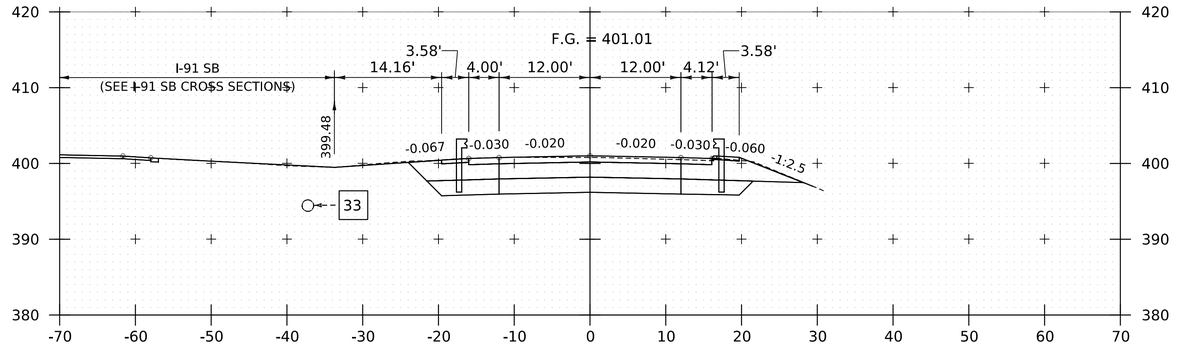
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 4	SHEET 479 OF 922

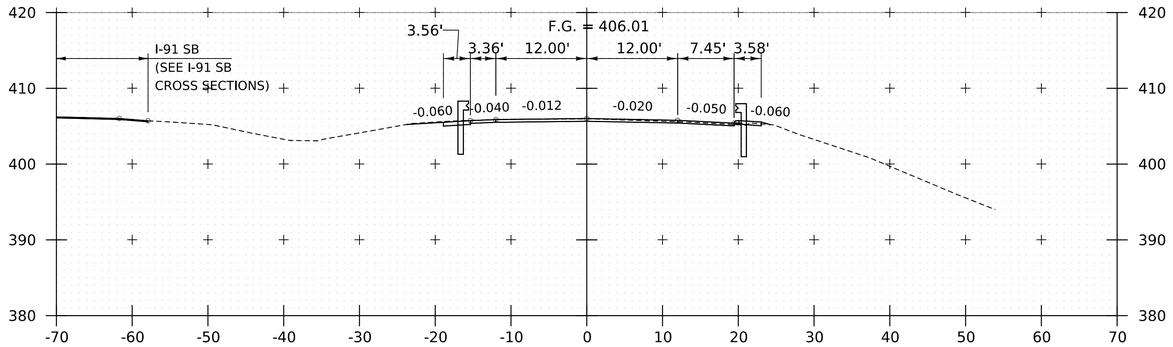


22158+21

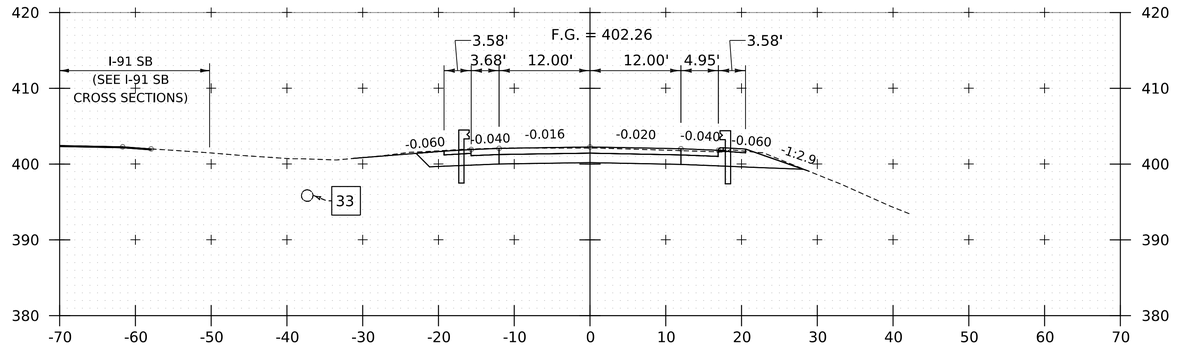


22159+00

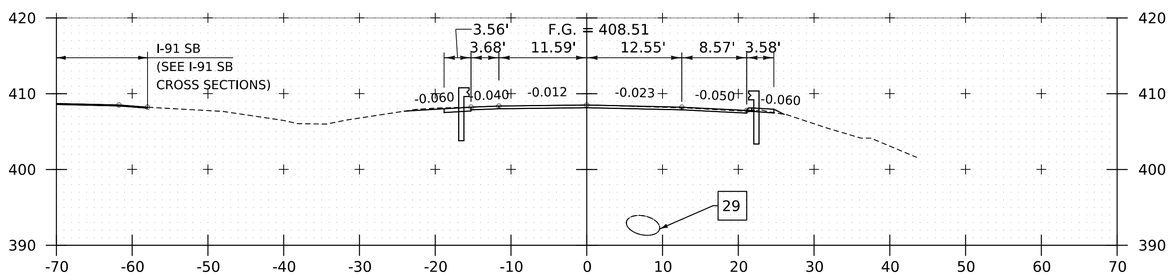
BEGIN I-91 NORTHBOUND PROJECT



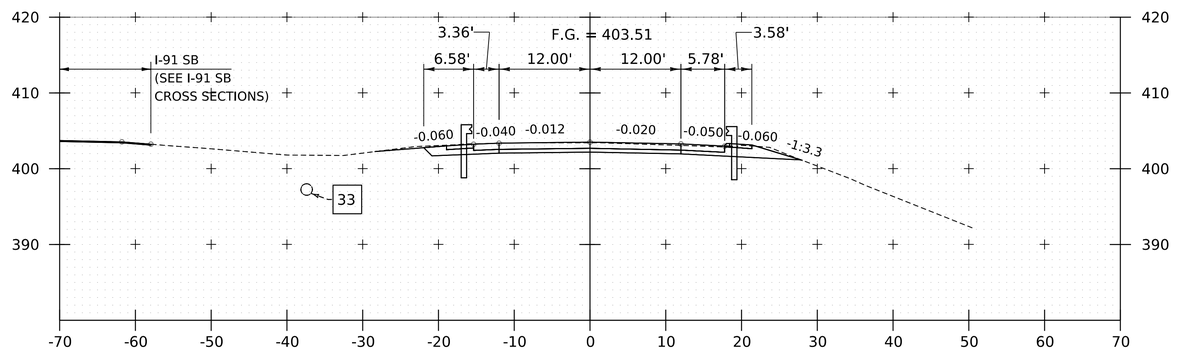
22158+00



22158+75



22157+50

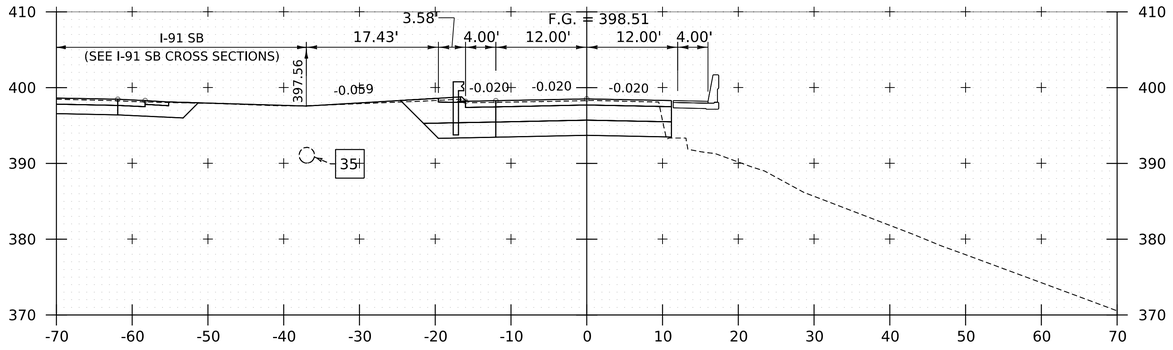


22158+50

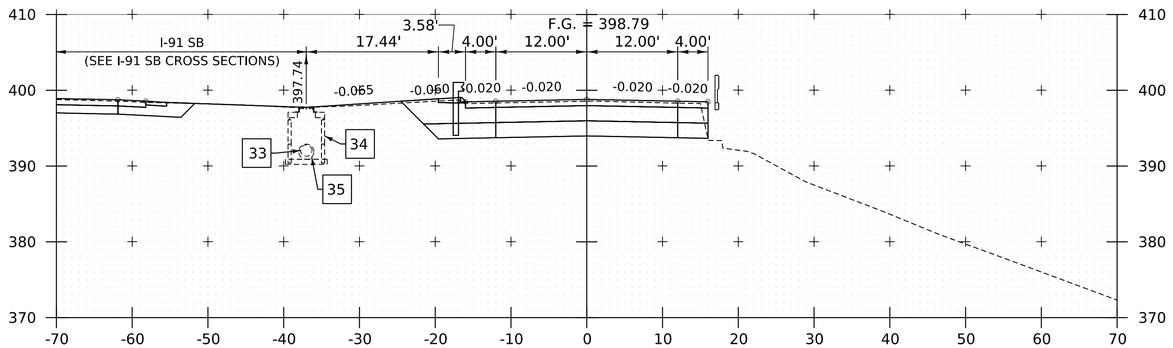
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

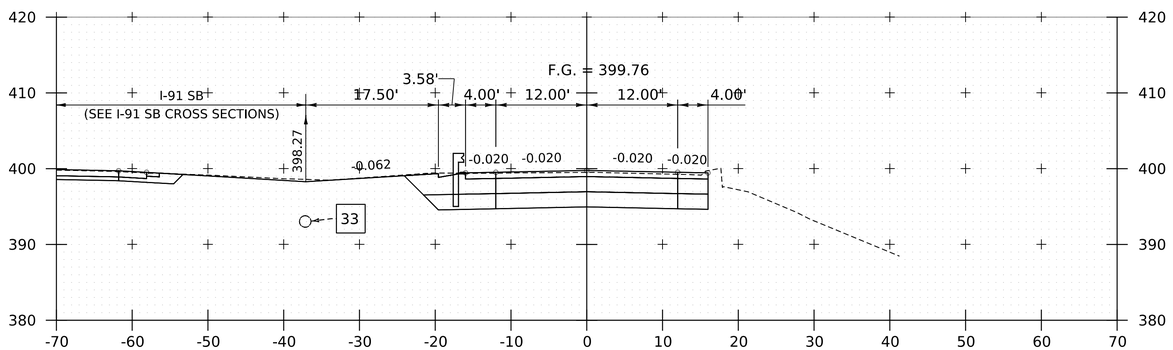
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_NB_25.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 5		SHEET 480	OF 922



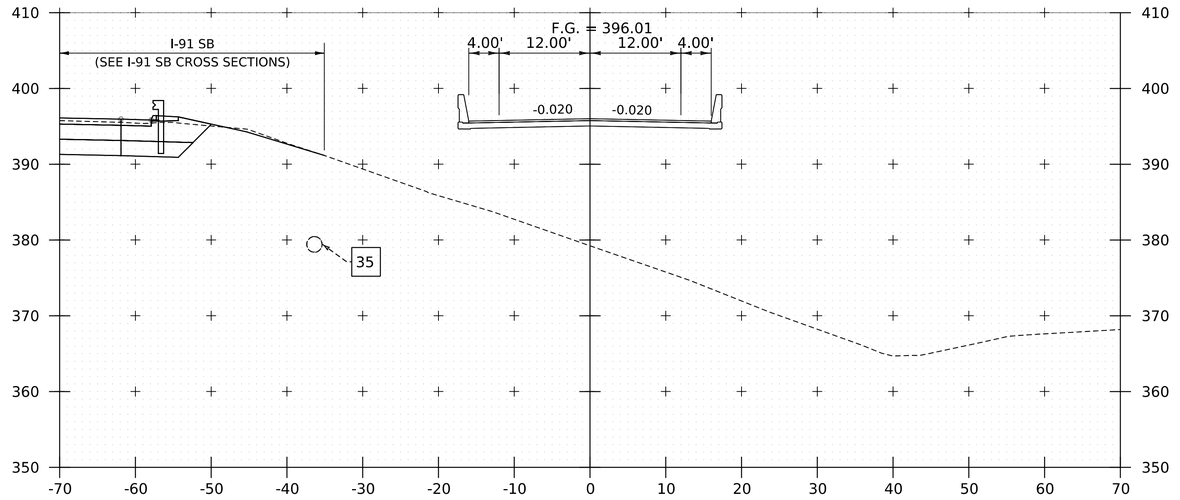
22159+50



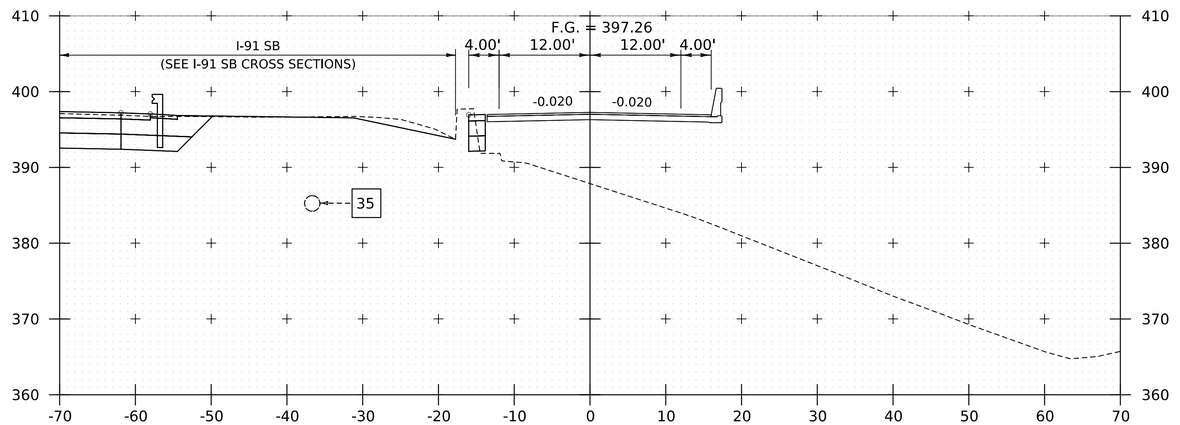
22159+44



22159+25



22160+00



22159+75

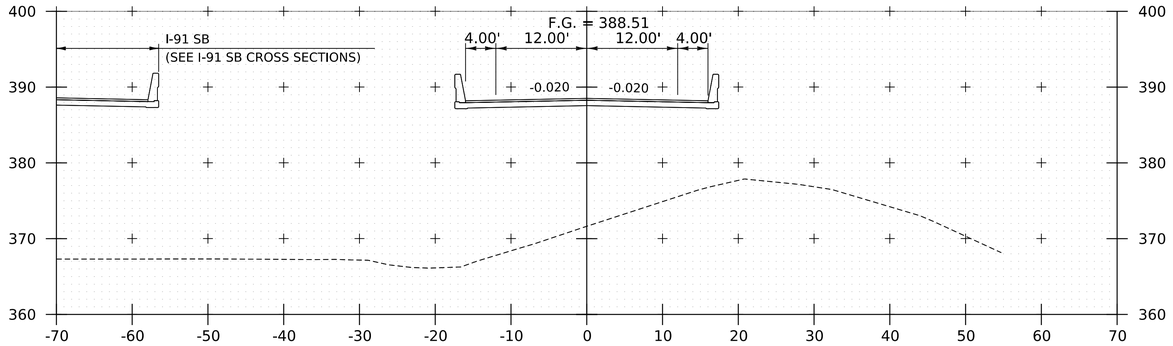
BEGIN BRIDGE 25N

22159+61.09

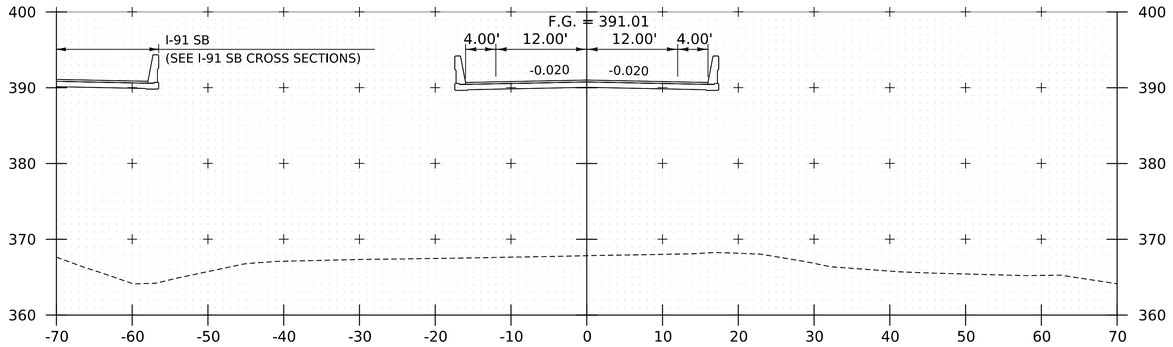
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

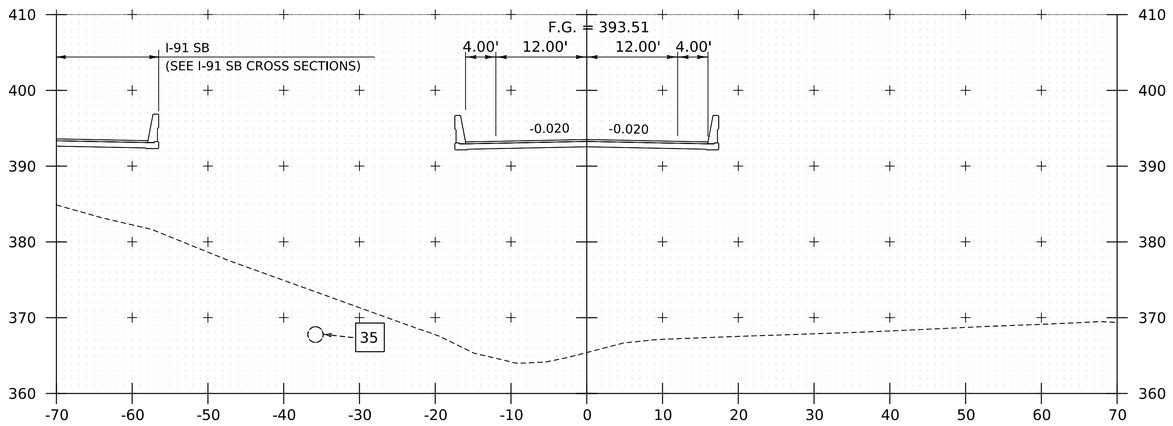
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_NB_25.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 6		SHEET	481 OF 922



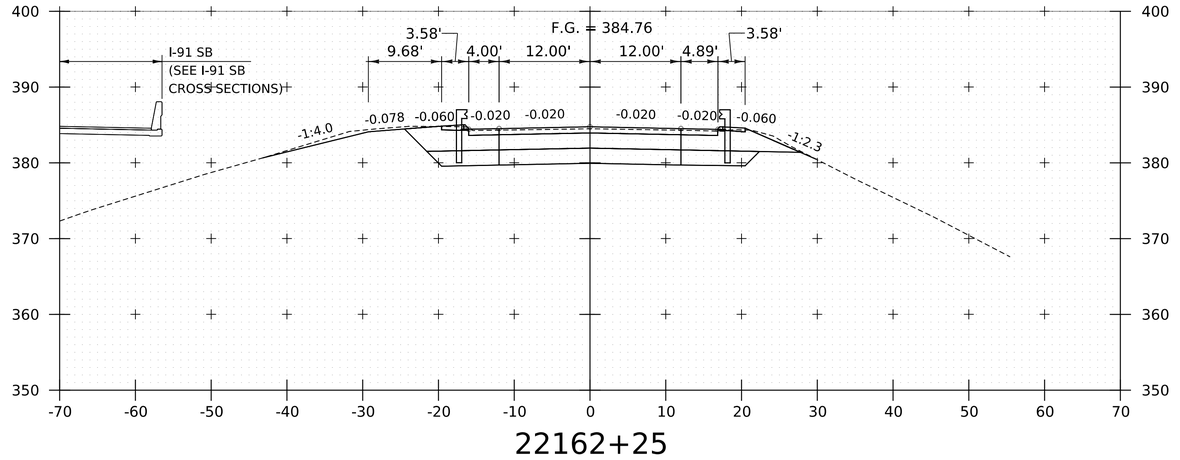
22161+50



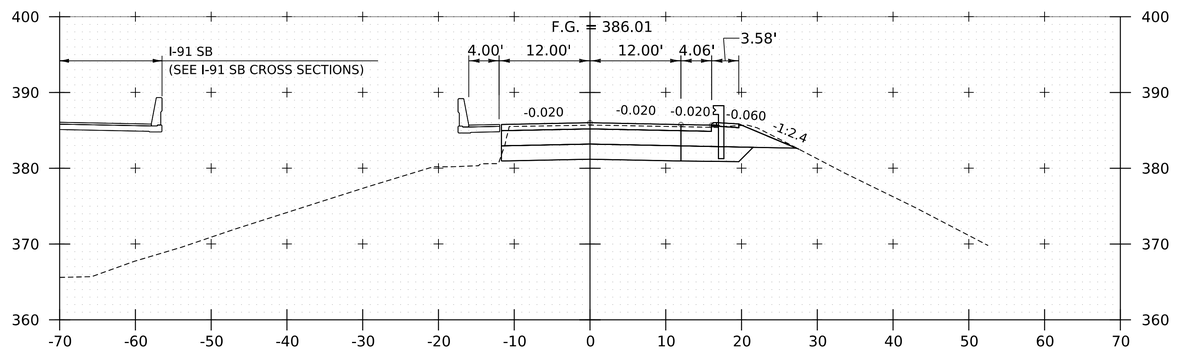
22161+00



22160+50



22162+25



22162+00

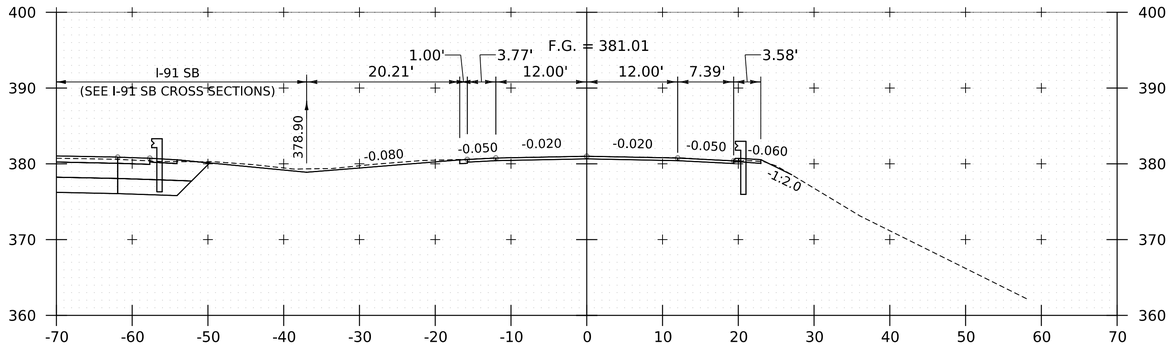
END BRIDGE 25N

22161+87.48

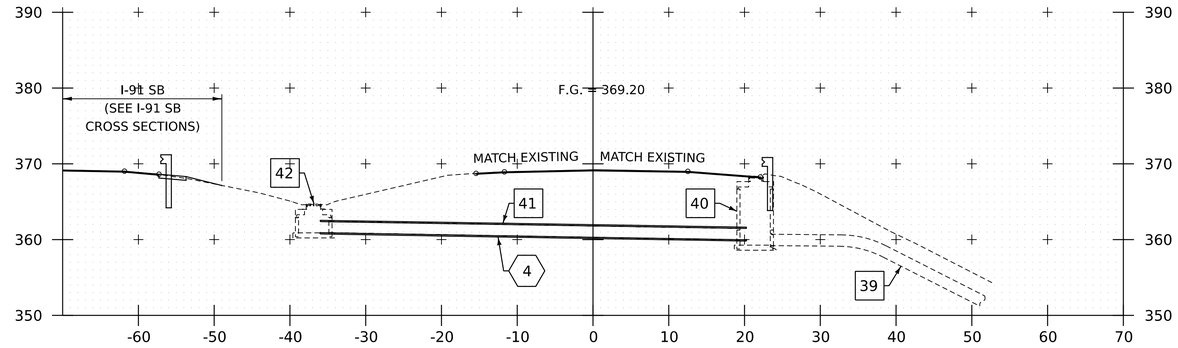
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 7	SHEET 482 OF 922

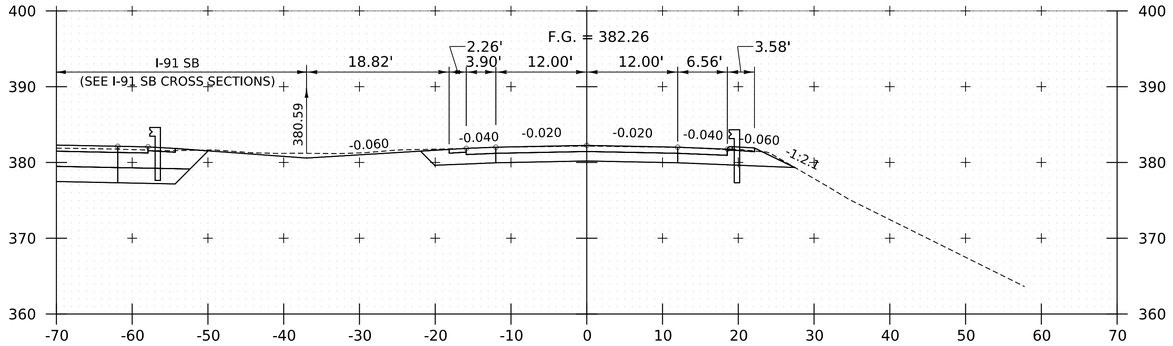
HNTB



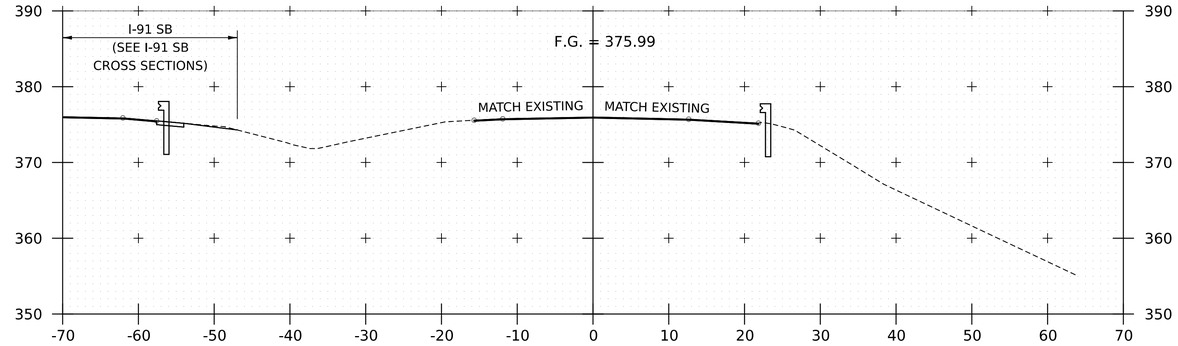
22163+00



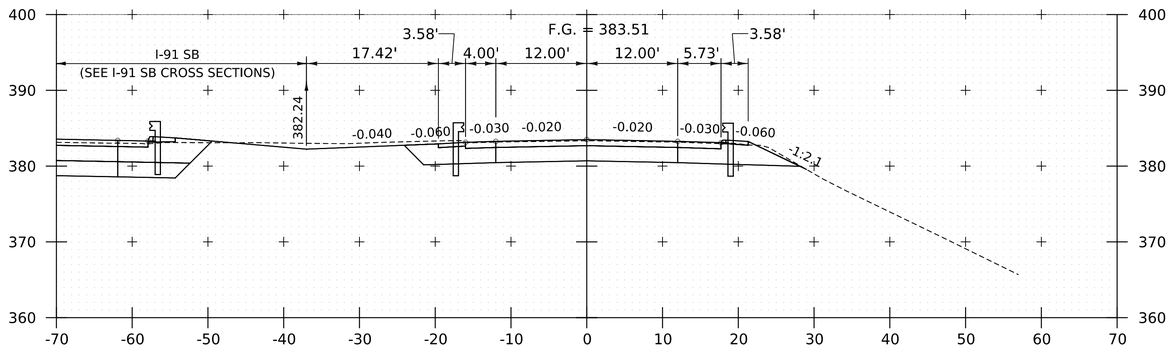
22165+36 (SKEWED ALONG PIPE)



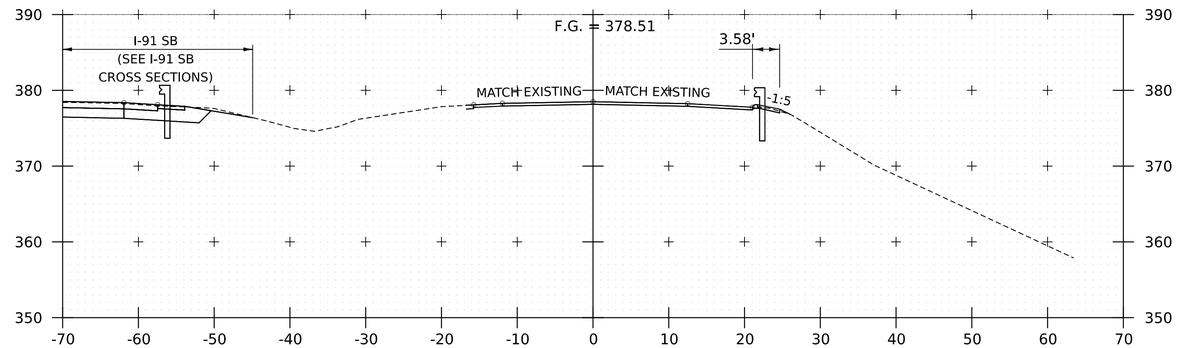
22162+75



22164+00



22162+50



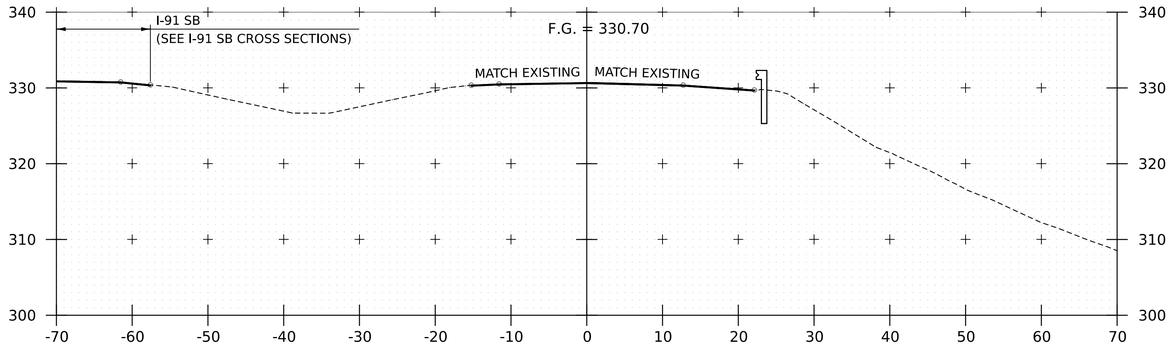
22163+50

STOP I-91 NORTHBOUND PROJECT

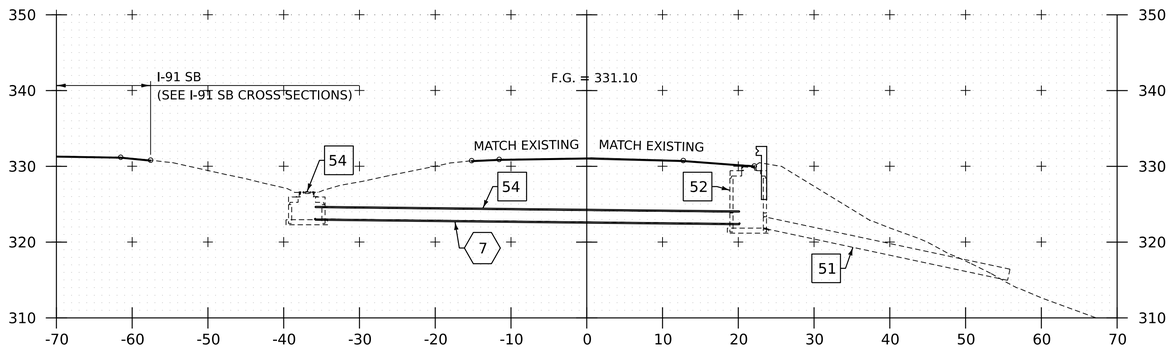
NOTE:
1. REFER TO MATERIAL TRANSITION DETAILS FOR MILL AND FILL AREA BETWEEN STA. 22164+00 AND 22173+50.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

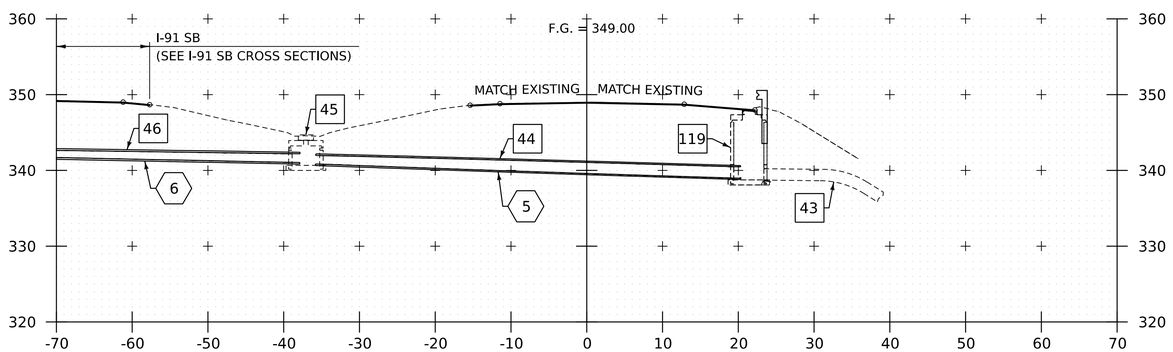
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 8	SHEET 483 OF 922



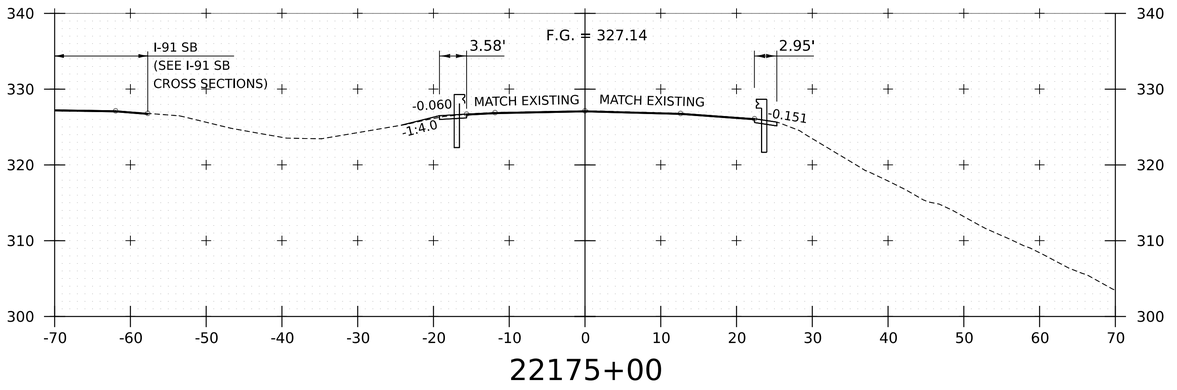
22173+50



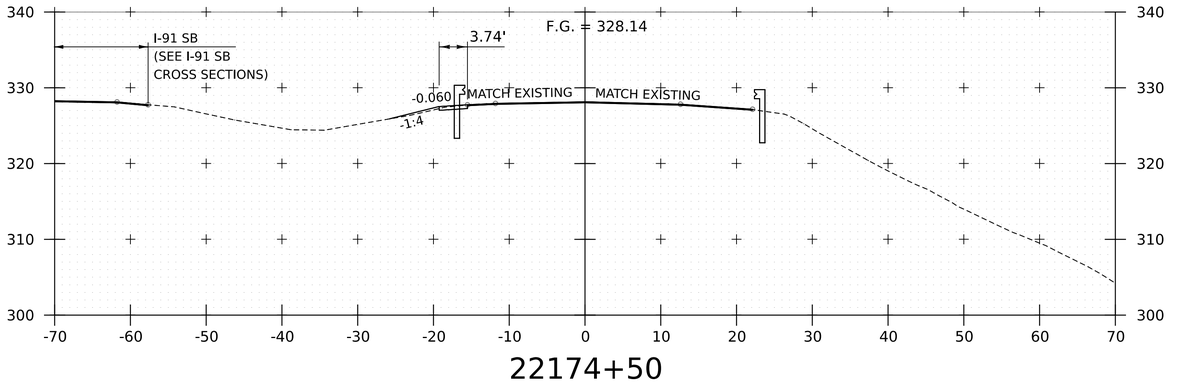
22173+37



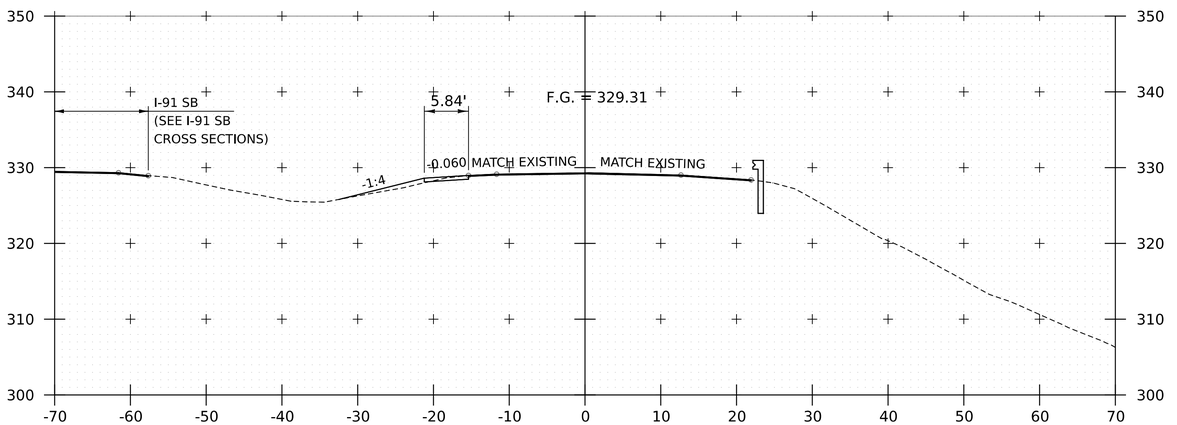
22169+38



22175+00



22174+50

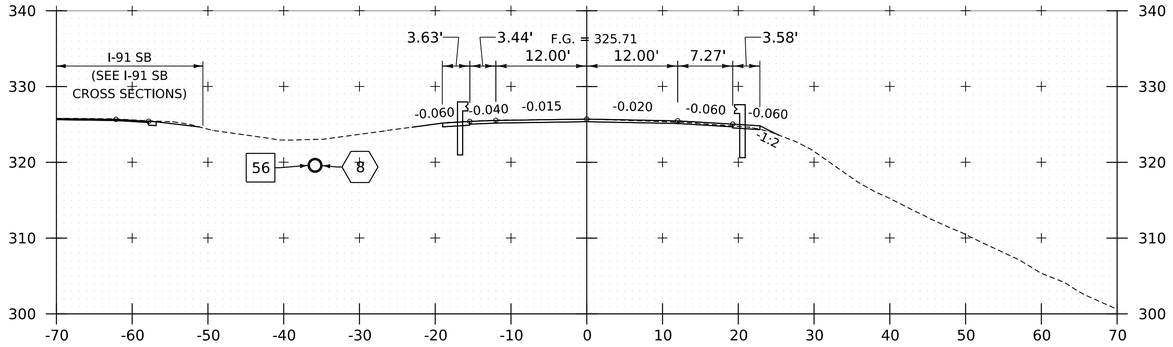


22174+00

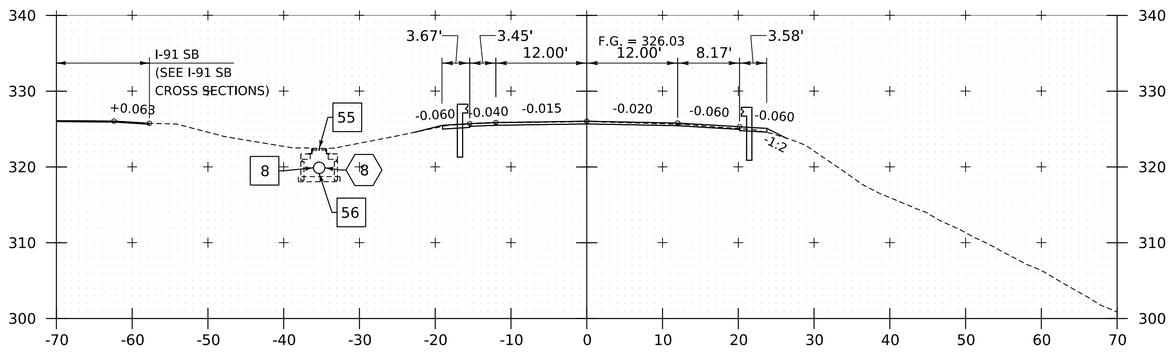
NOTE:
1. REFER TO MATERIAL TRANSITION DETAILS FOR MILL AND FILL AREA BETWEEN STA. 22164+00 AND 22173+50.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

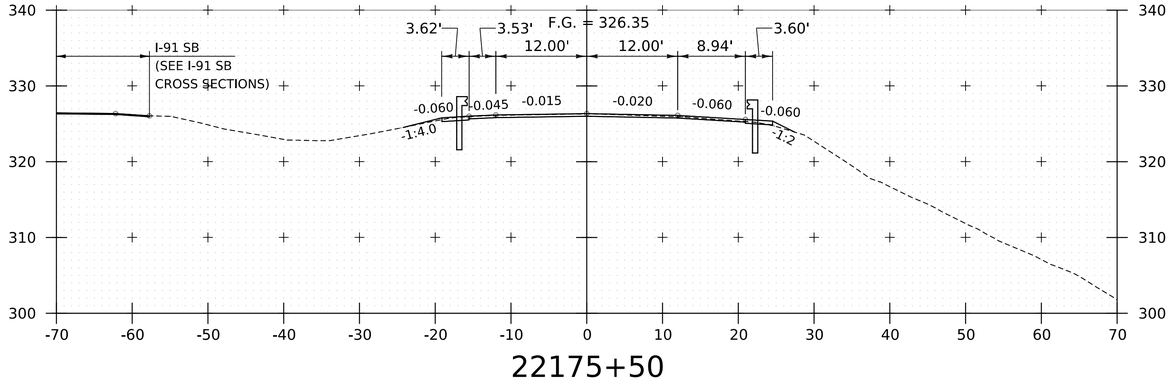
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_NB_26.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 9		SHEET 484	OF 922



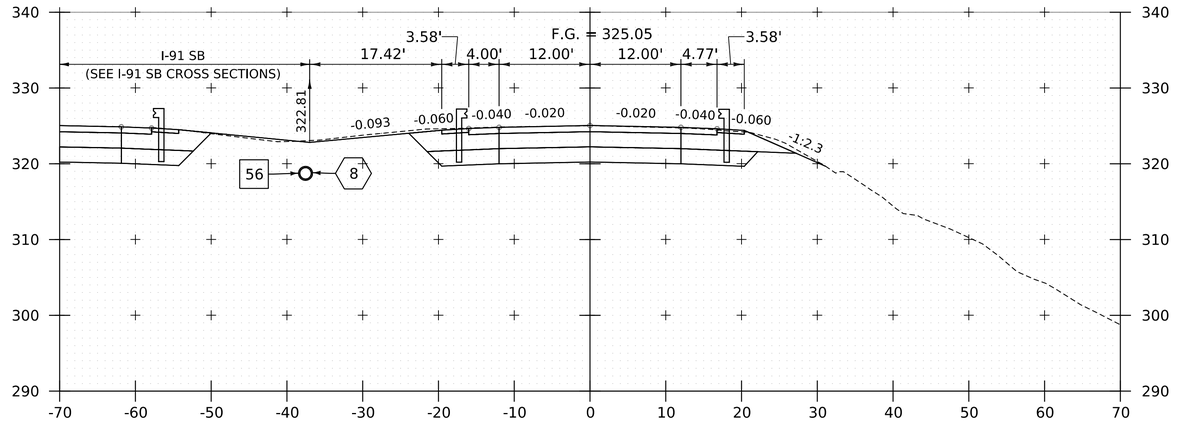
22176+00



22175+73

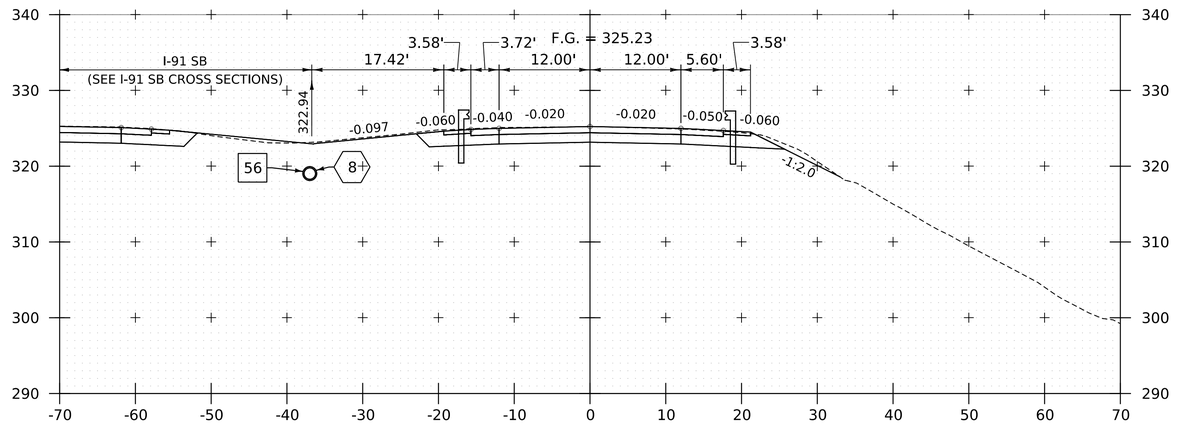


22175+50

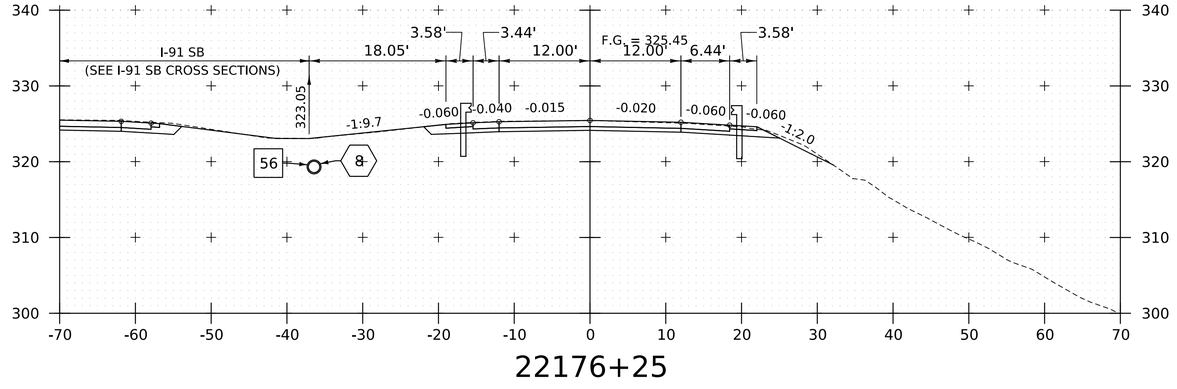


22176+75

RESUME I-91 NORTHBOUND PROJECT



22176+50

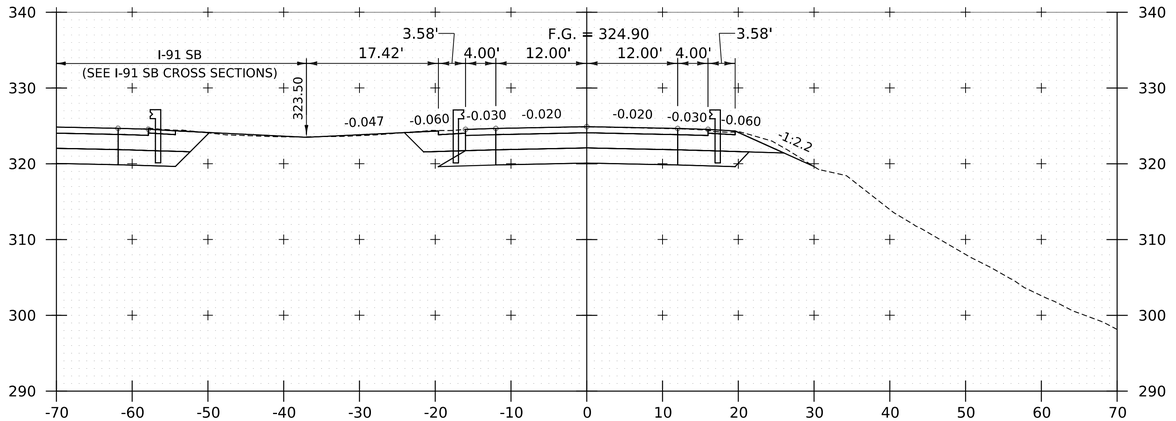


22176+25

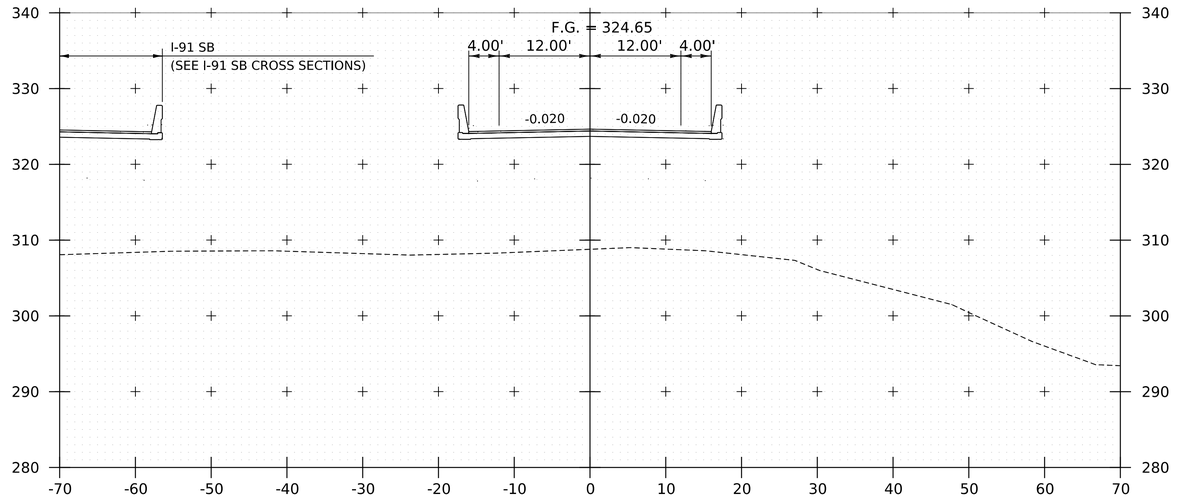
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 10	SHEET 485 OF 922



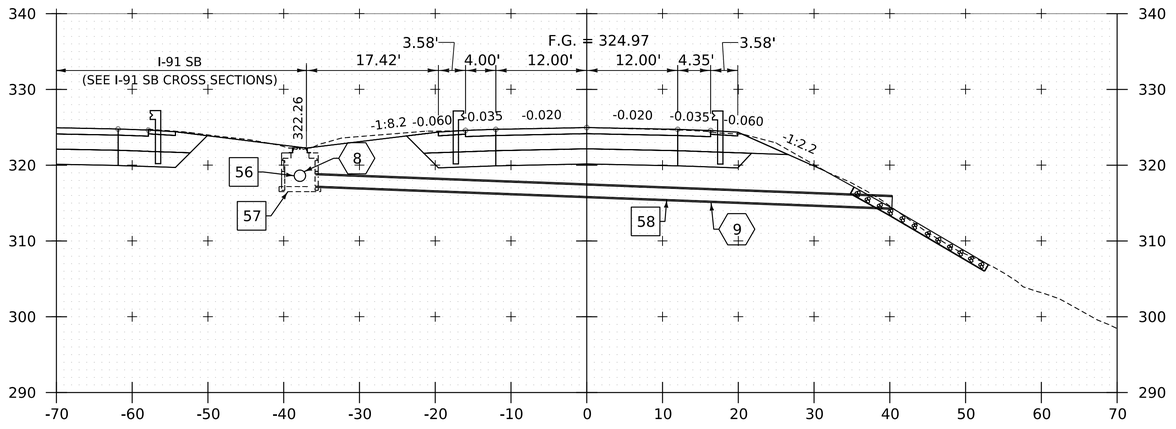
22177+00



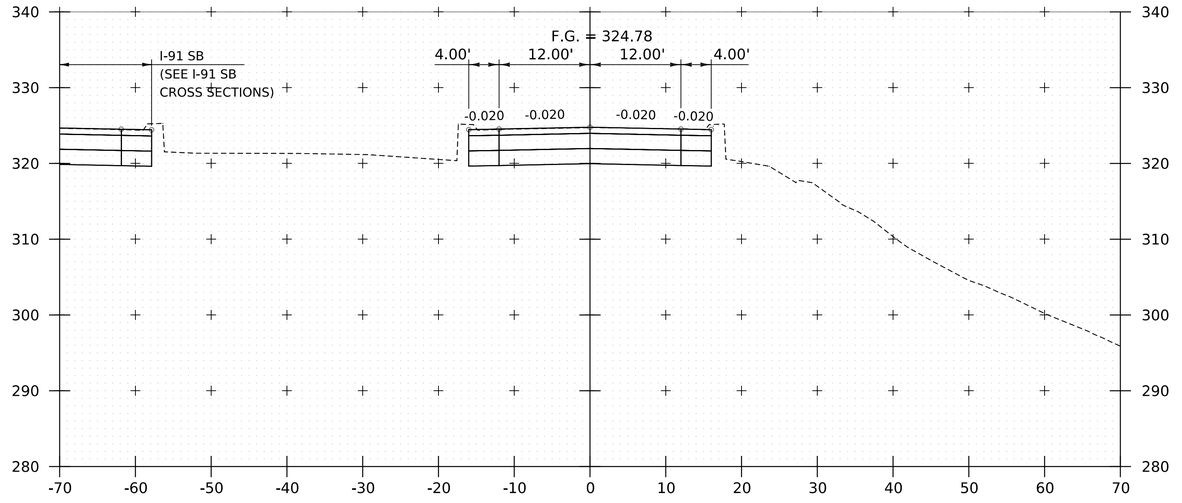
22177+50

BEGIN BRIDGE 26N

22177+29.50



22176+88

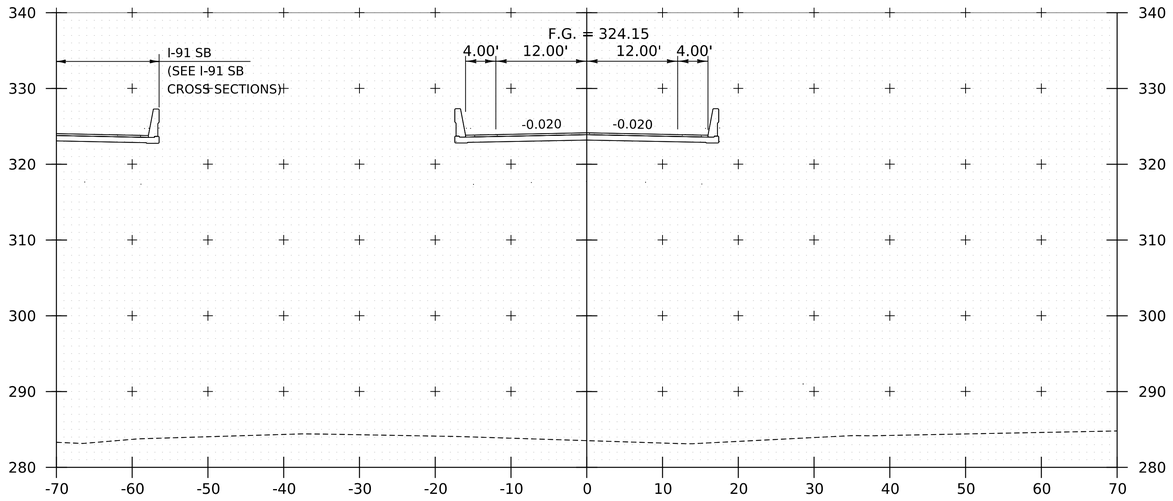


22177+25

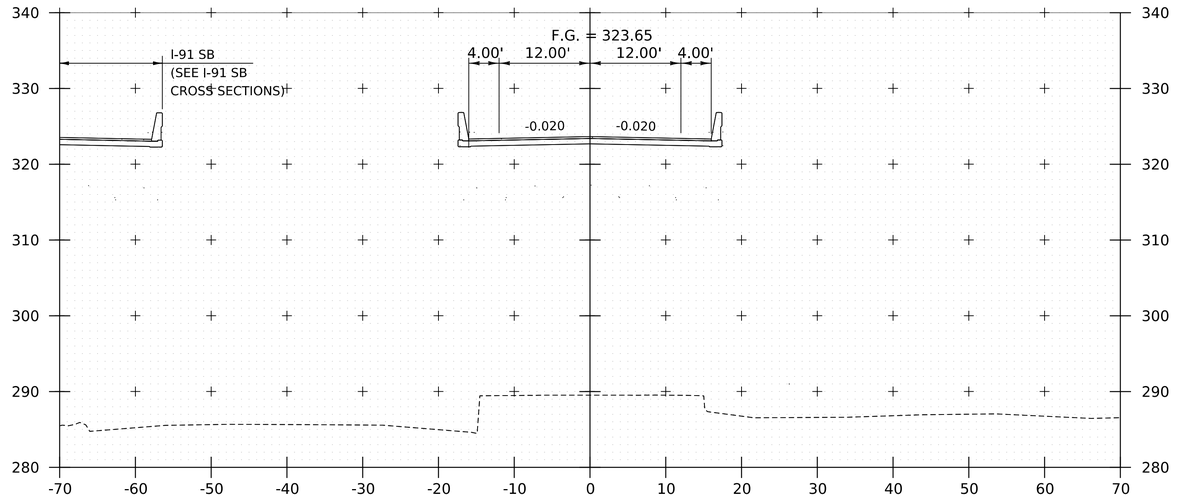
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

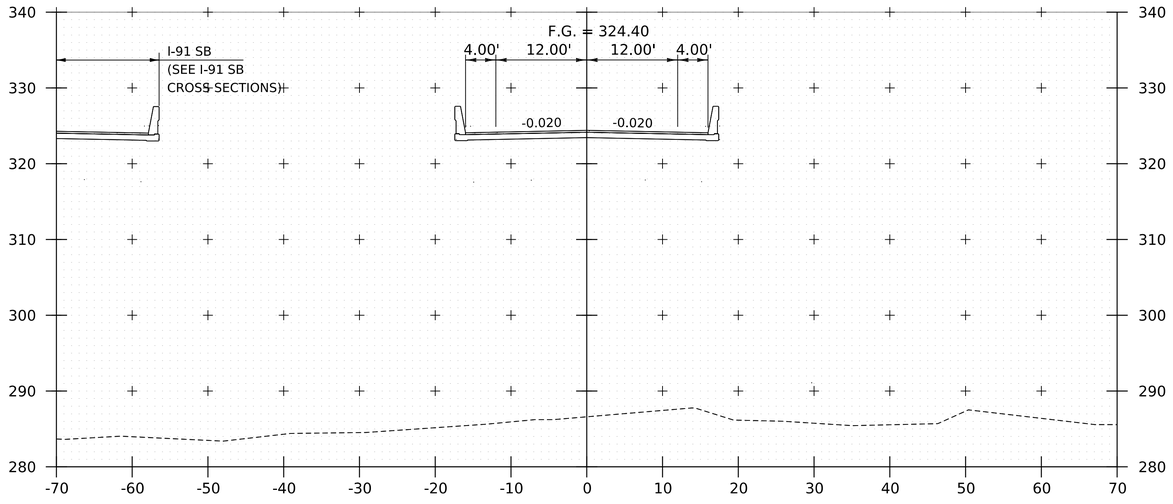
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 11	SHEET 486 OF 922



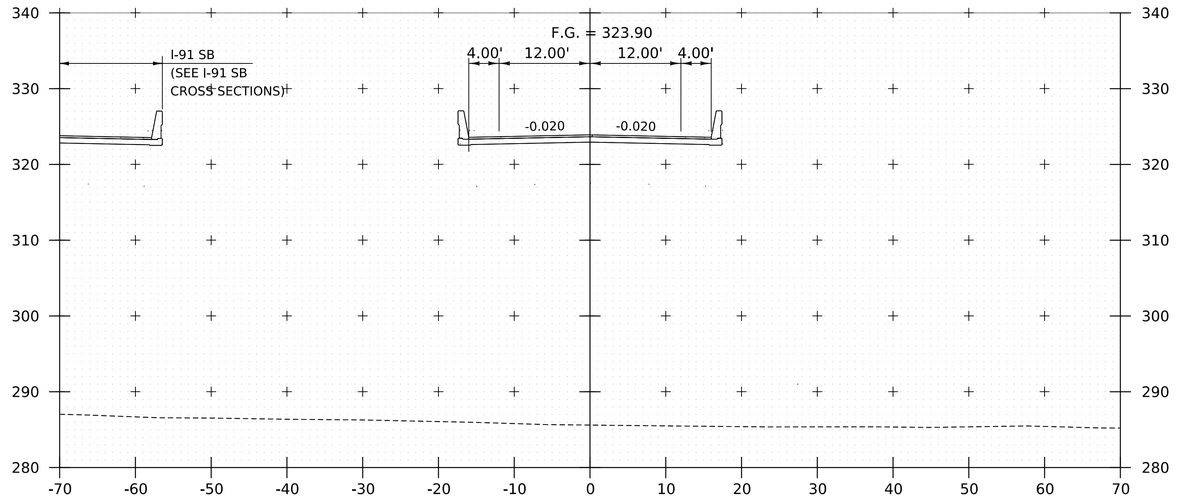
22178+50



22179+50



22178+00

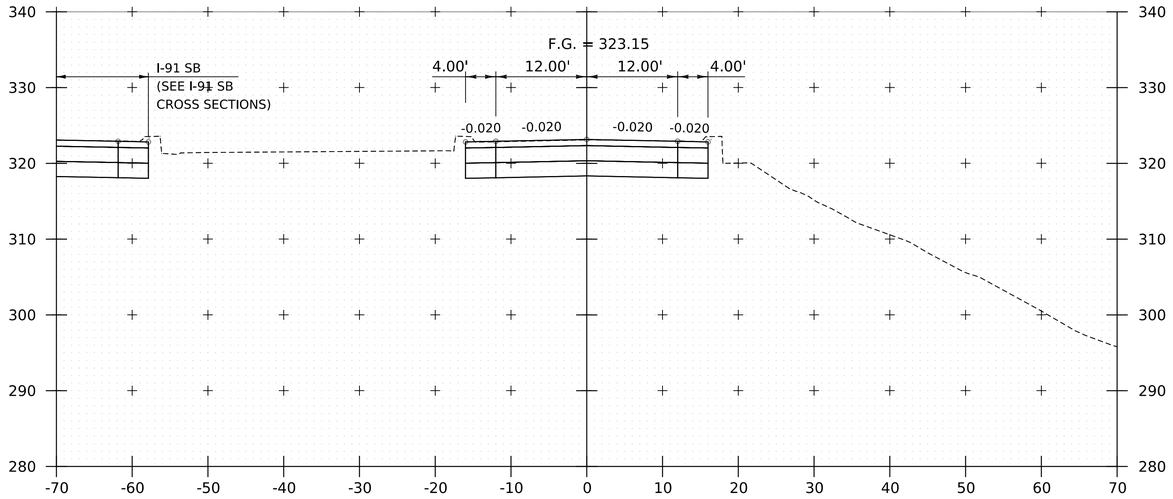


22179+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

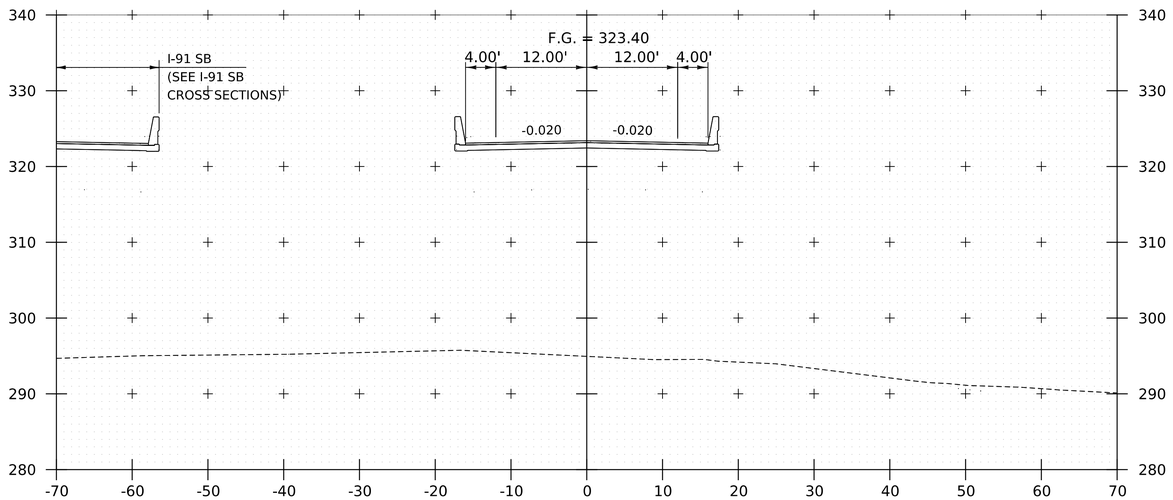
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 12	SHEET 487 OF 922



22180+50

END BRIDGE 26N

22180+42.00



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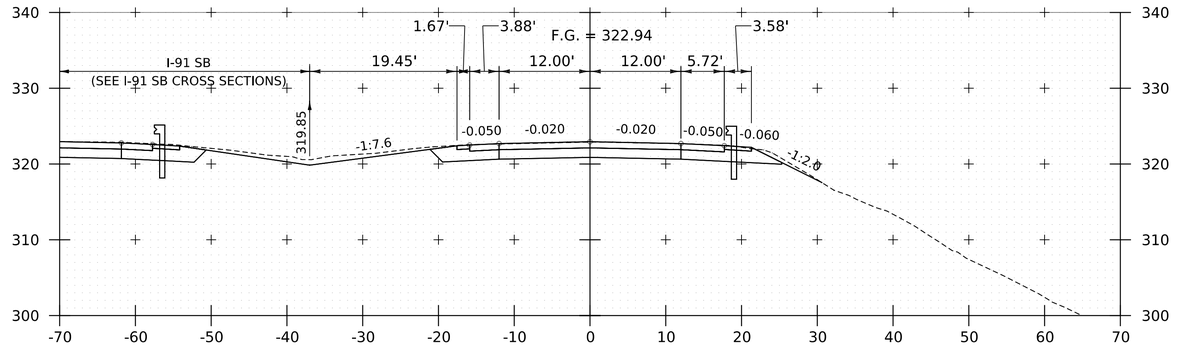
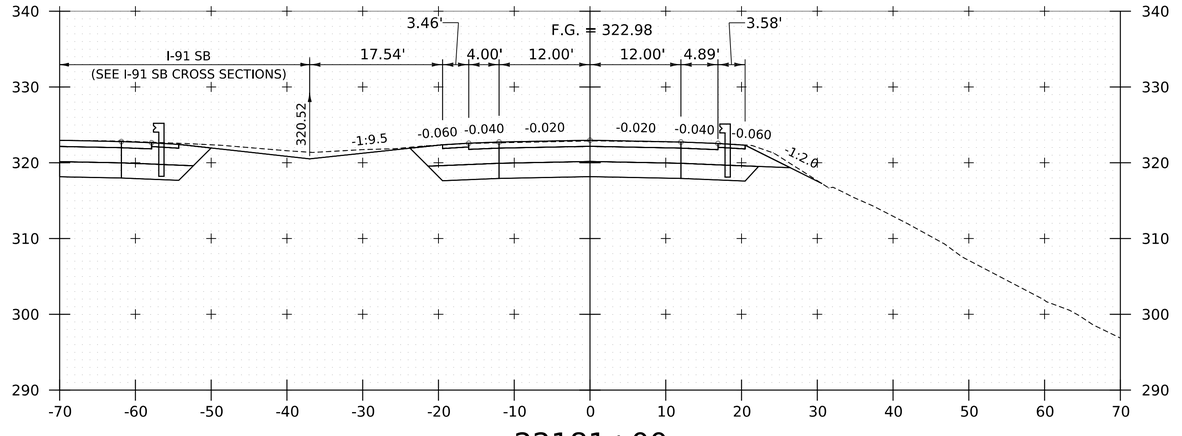
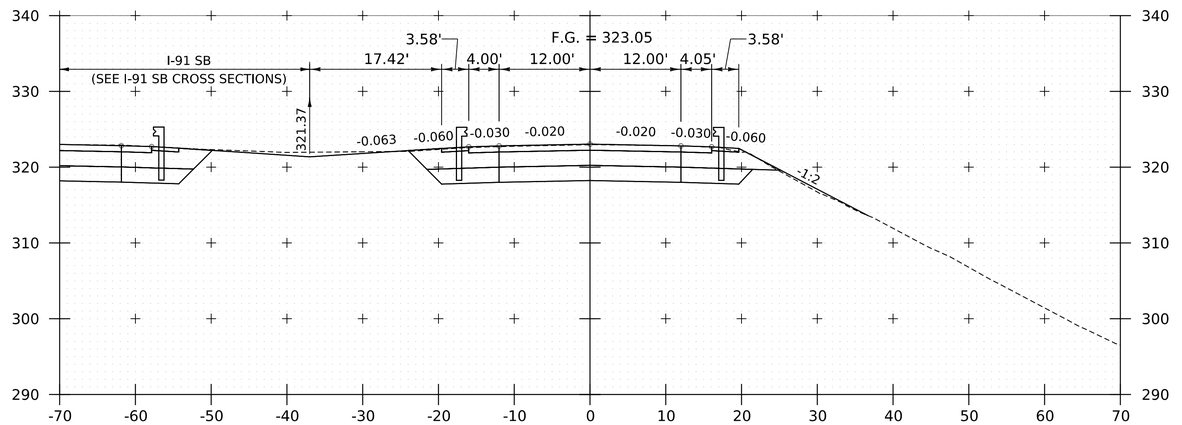


22181+25



22181+00

STOP I-91 NORTHBOUND PROJECT

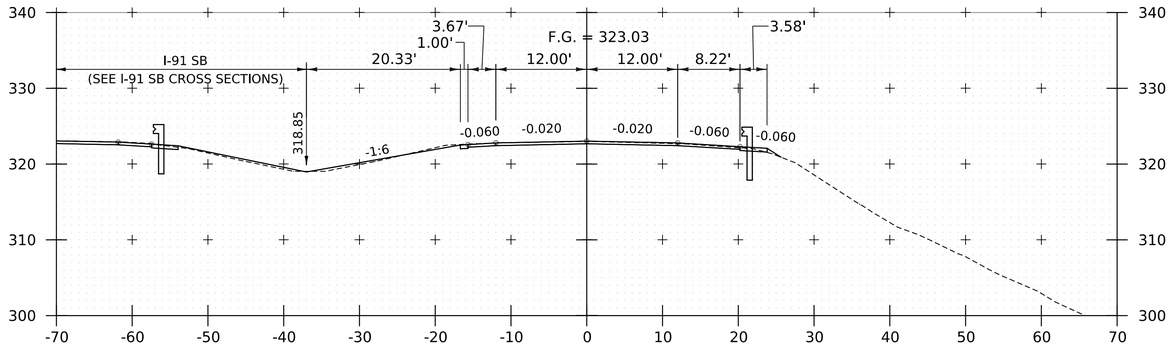


22180+75

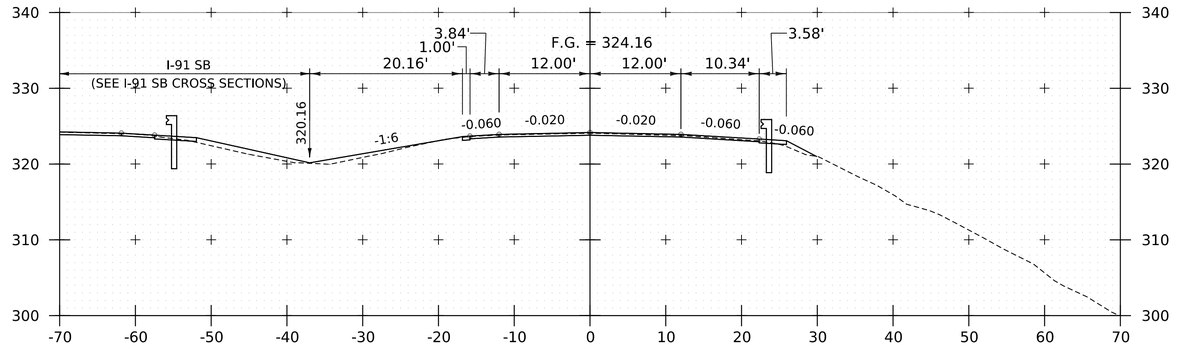
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

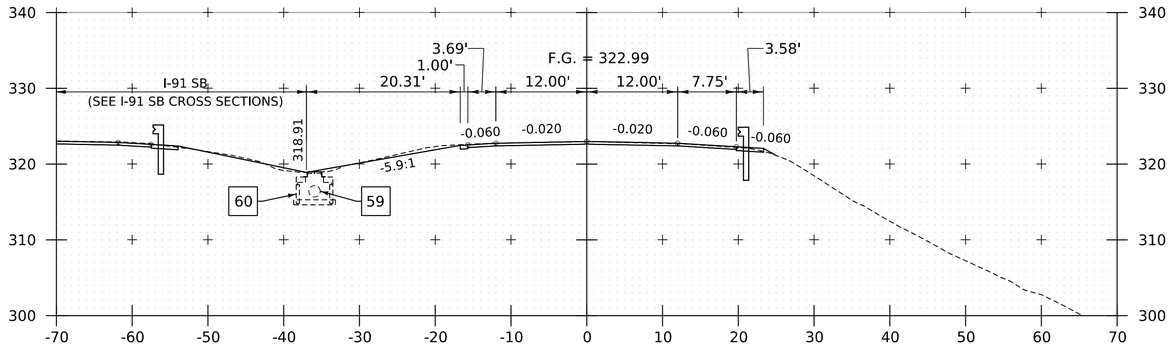
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 13	SHEET 488 OF 922



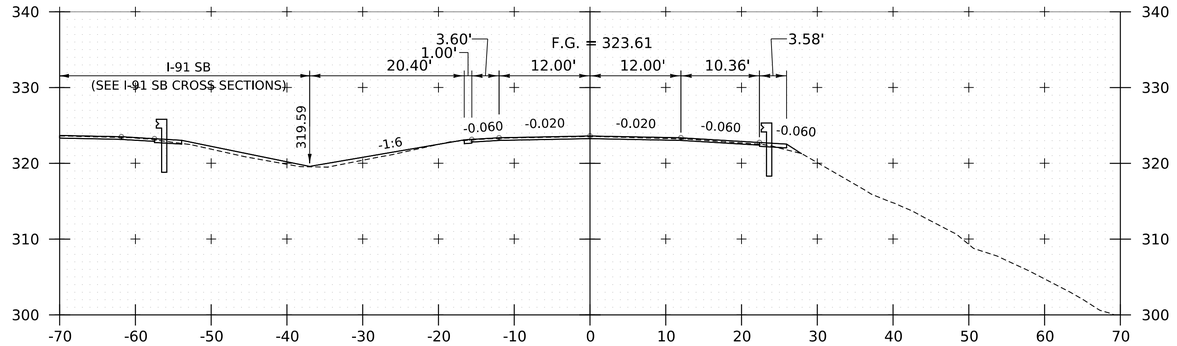
22182+00



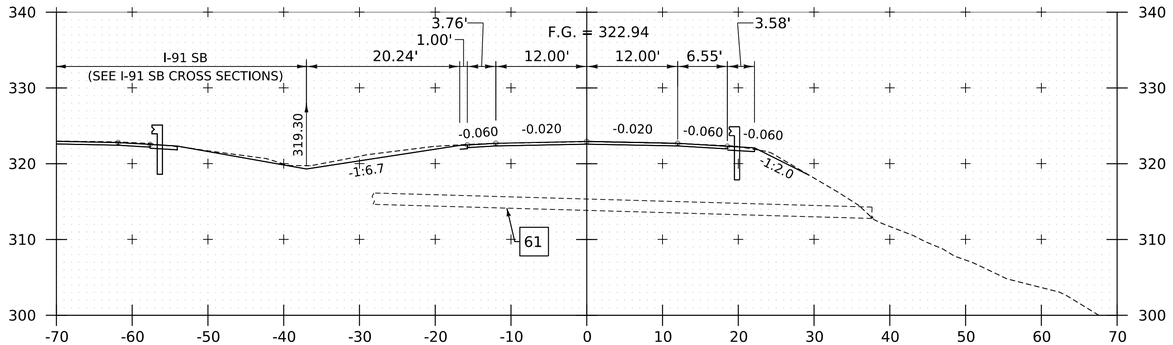
22183+50



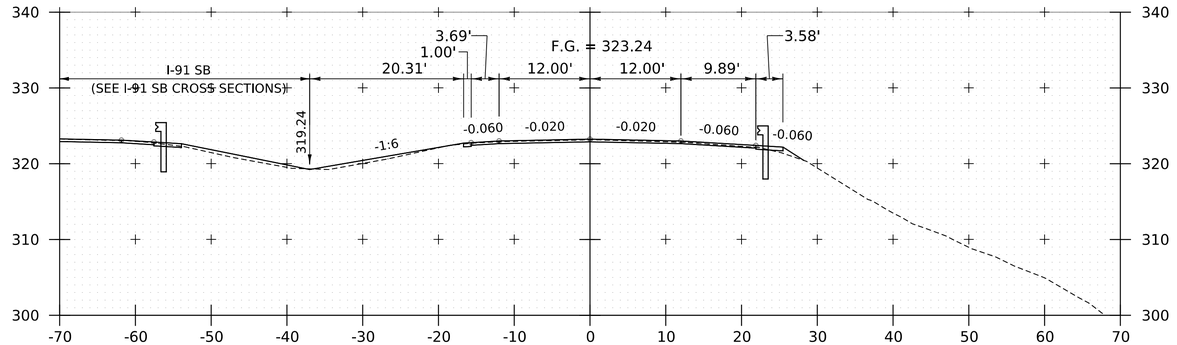
22181+86



22183+00



22181+50

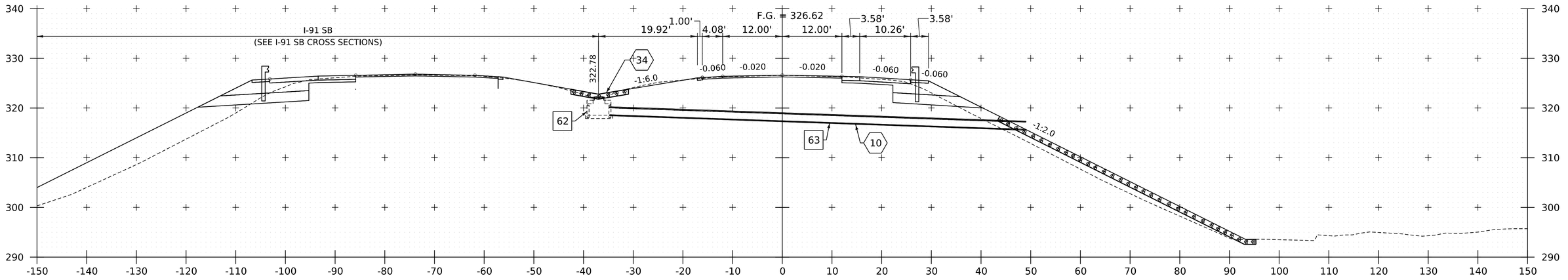


22182+50

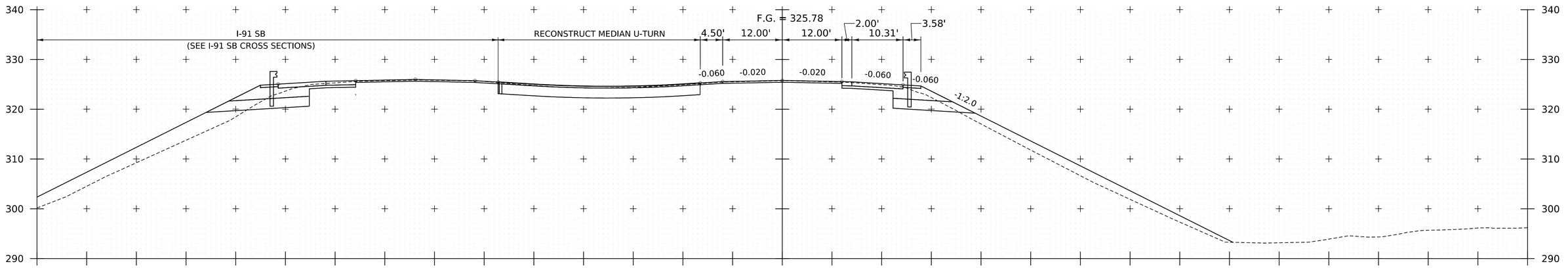
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

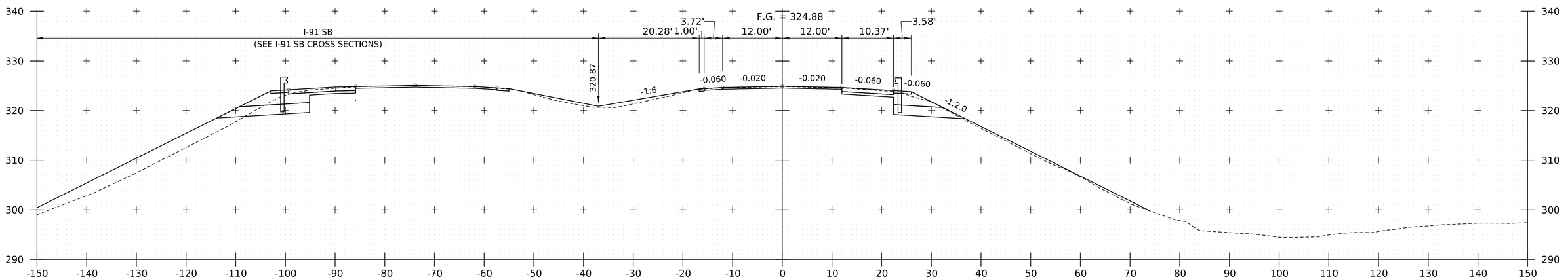
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 14	SHEET 489 OF 922



22184+89



22184+50

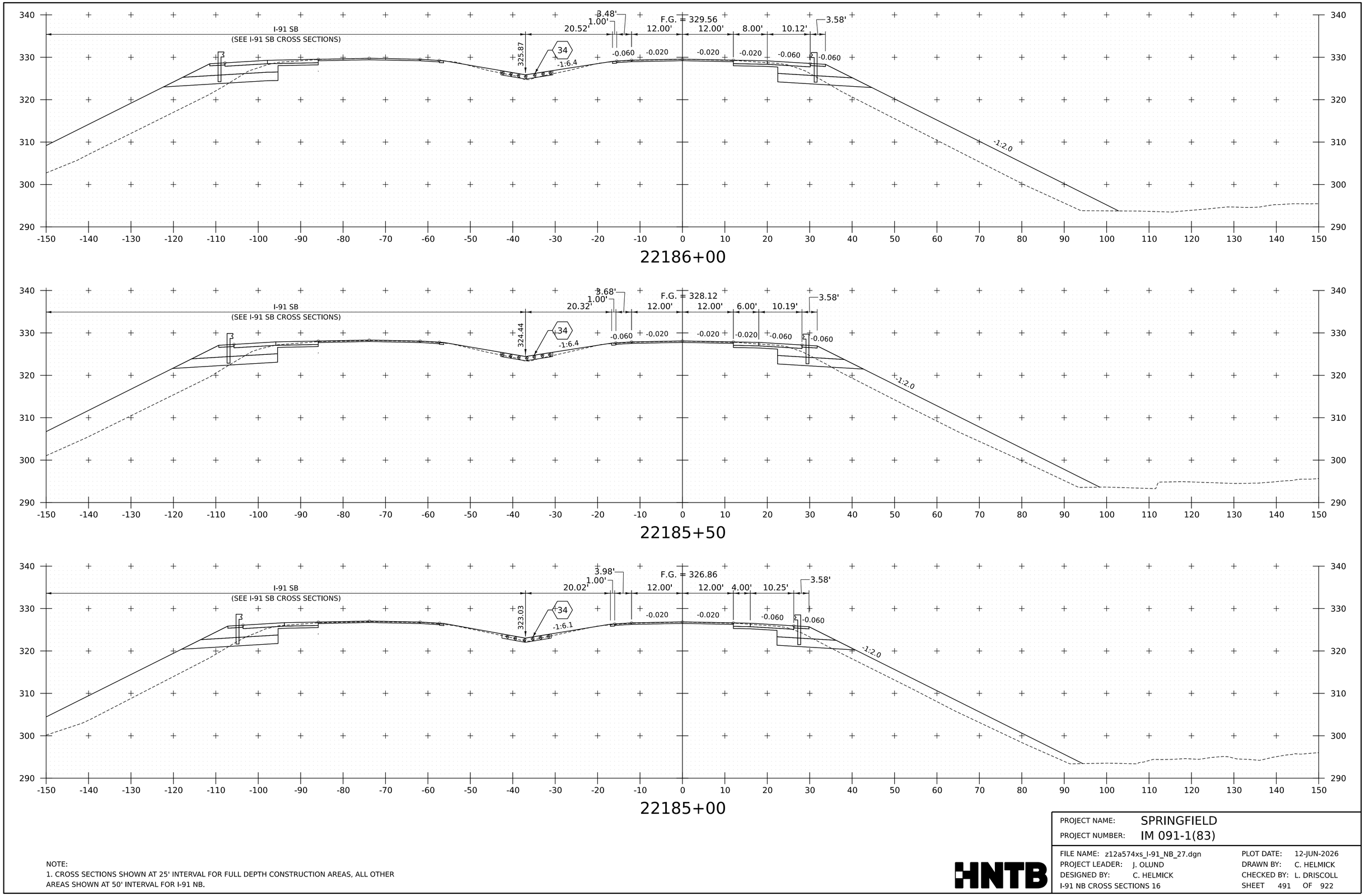


22184+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

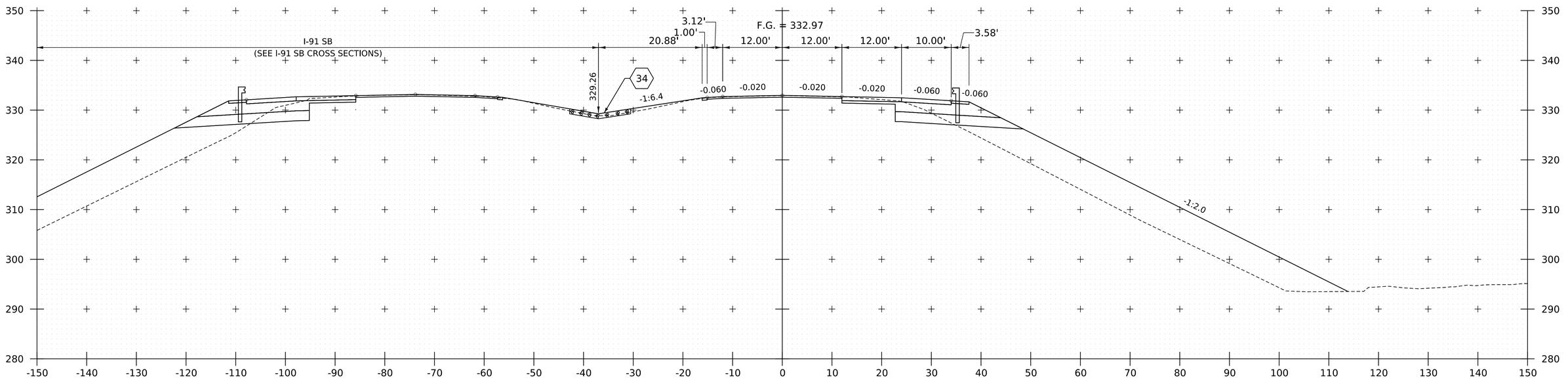
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 15	SHEET 490 OF 922

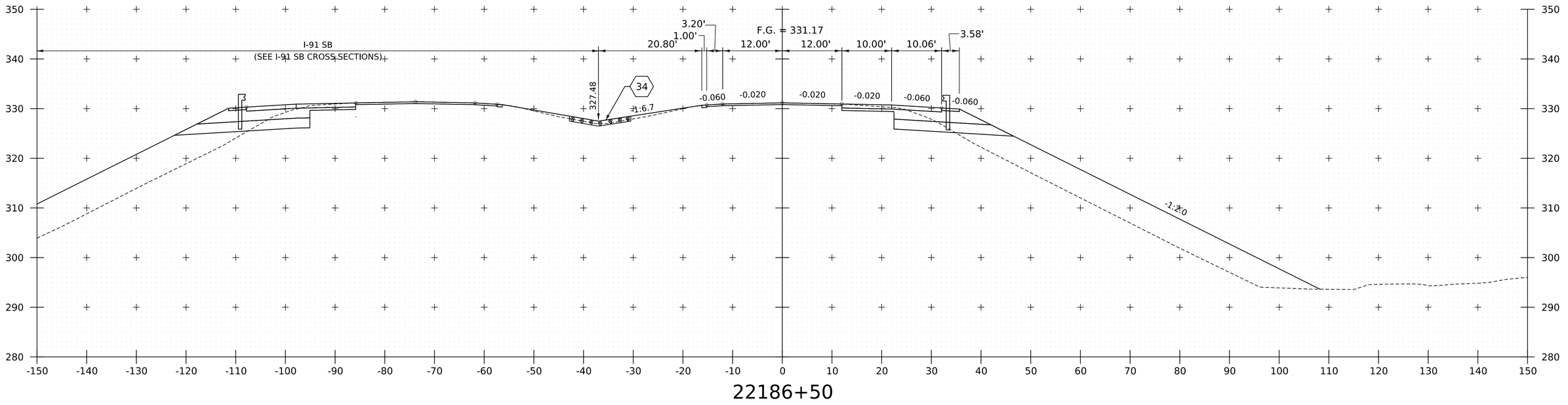


NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 16	SHEET 491 OF 922

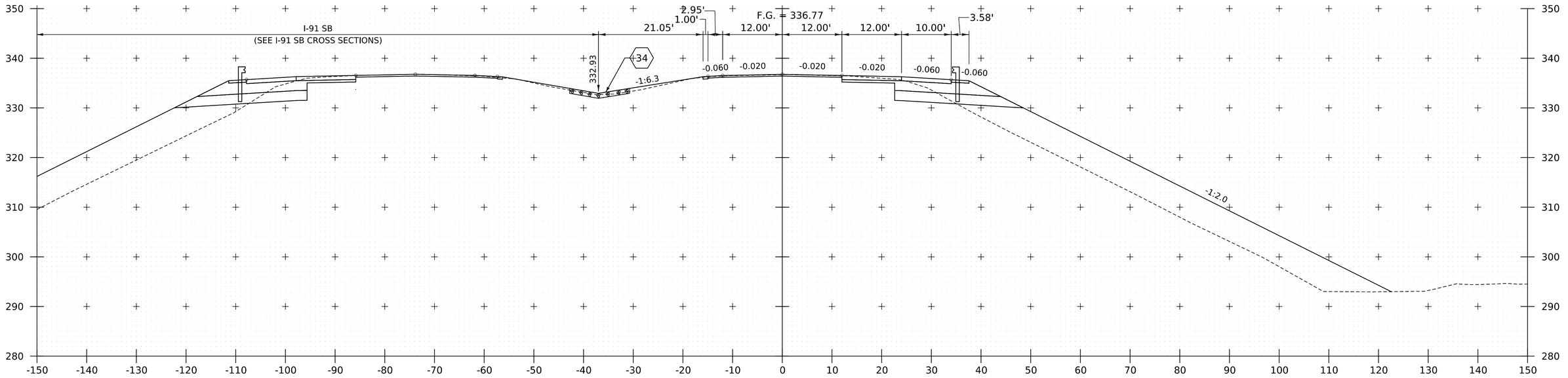




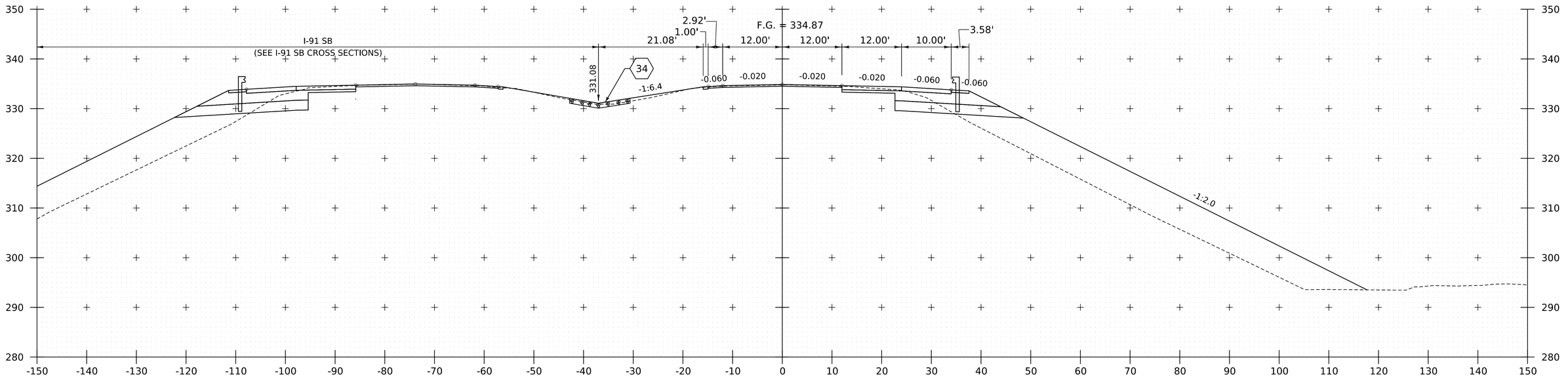
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 17	SHEET 492 OF 922



22188+00

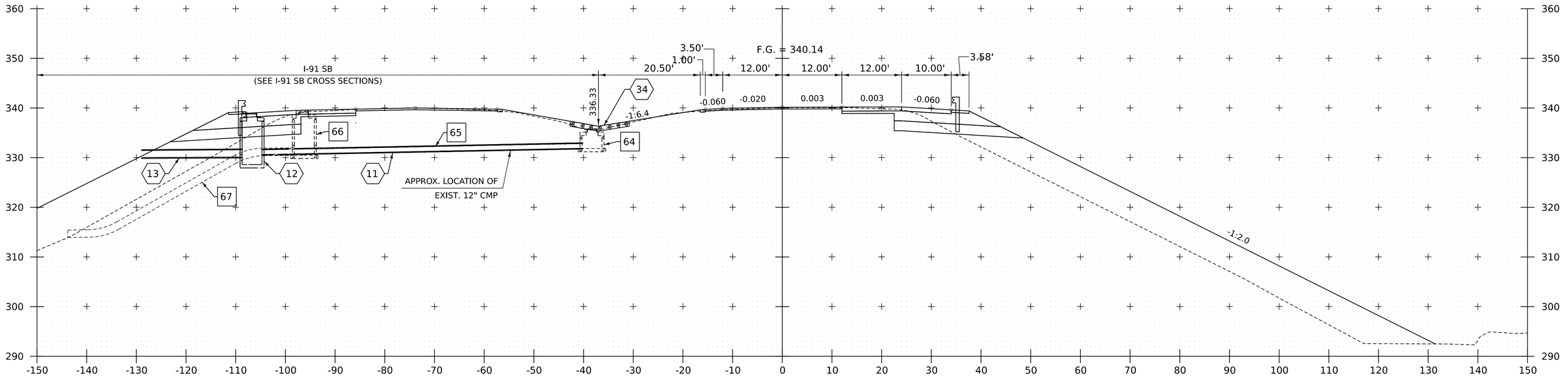


22187+50

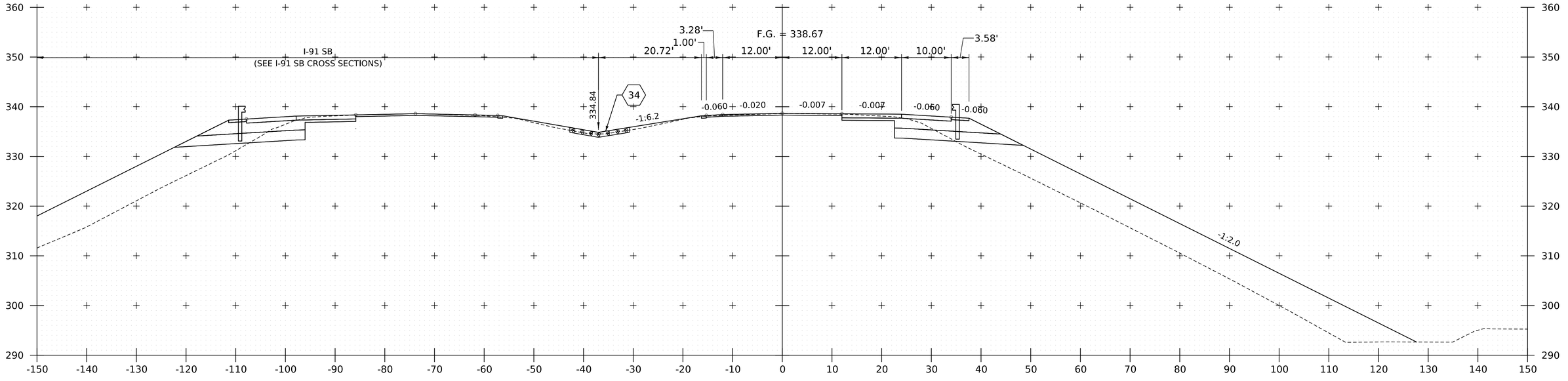
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 18	SHEET 493 OF 922



22188+89

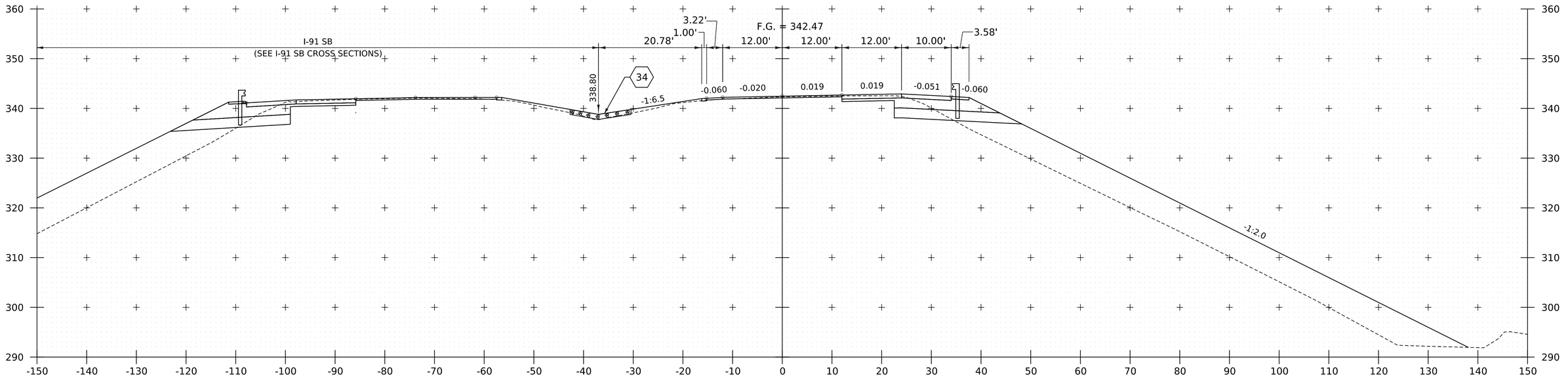


22188+50

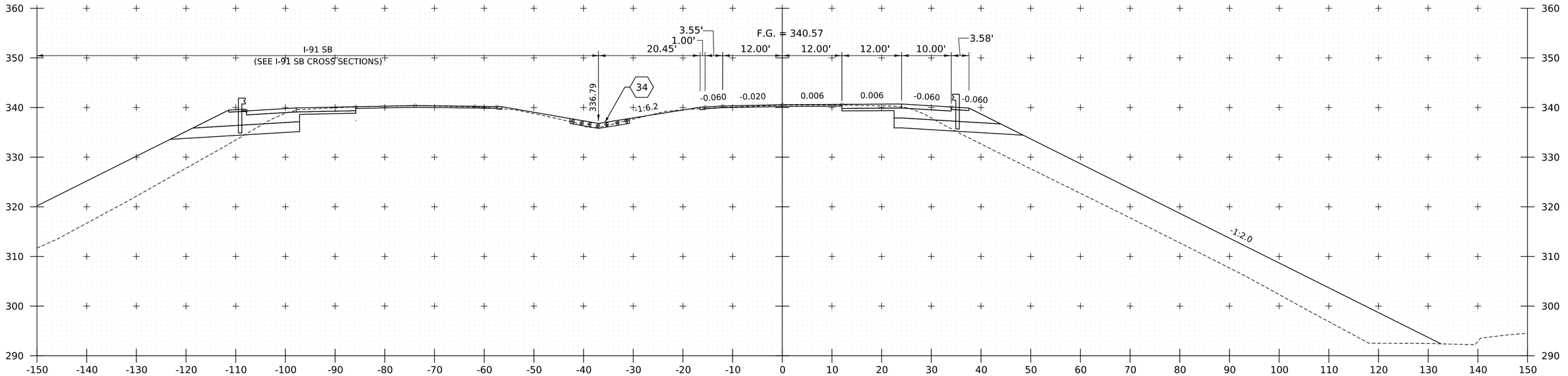
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 19	SHEET 494 OF 922



22189+50

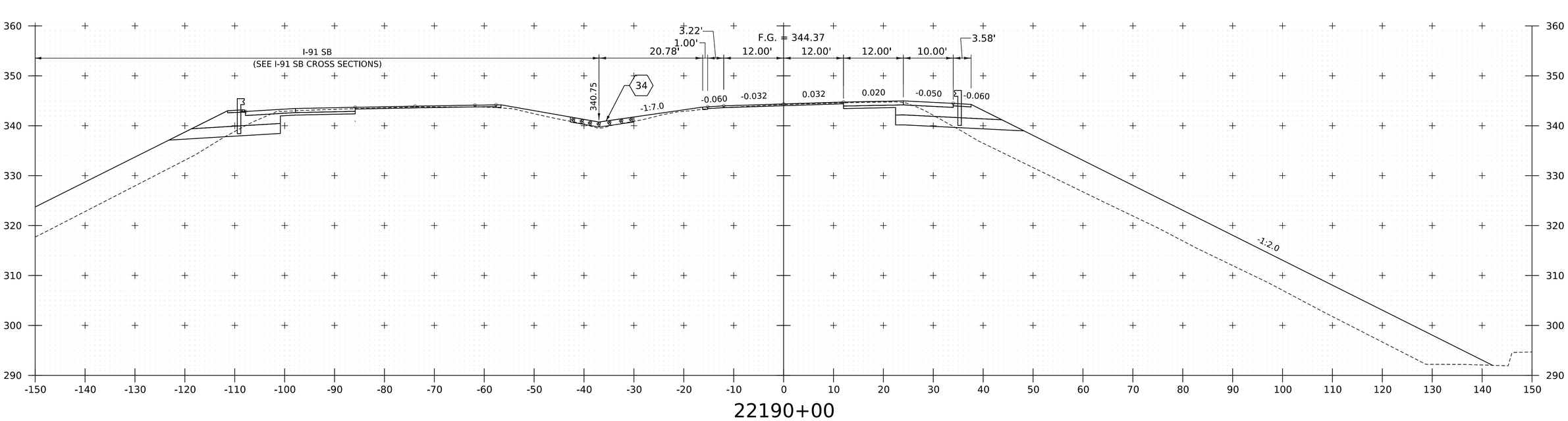


22189+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

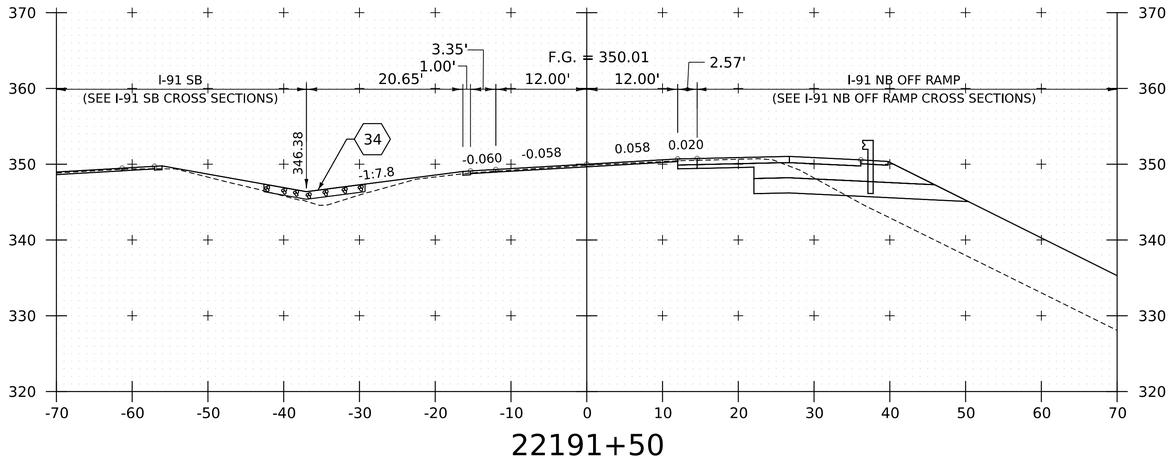
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 20	SHEET 495 OF 922



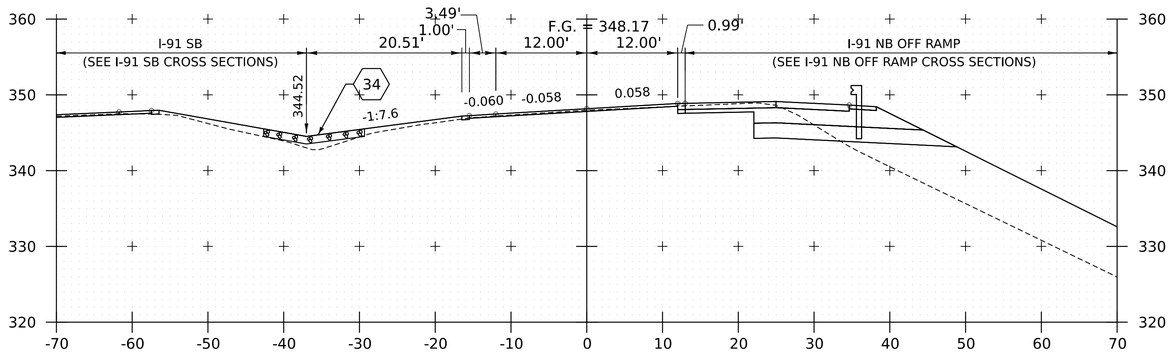
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

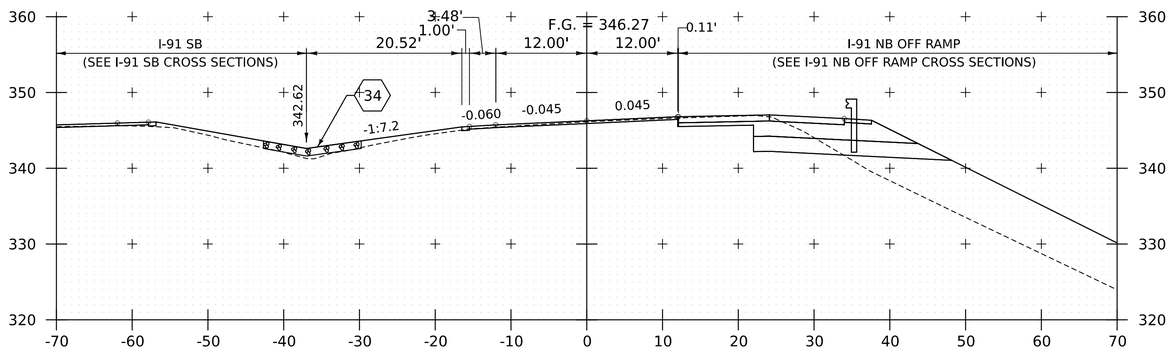
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 21	SHEET 496 OF 922



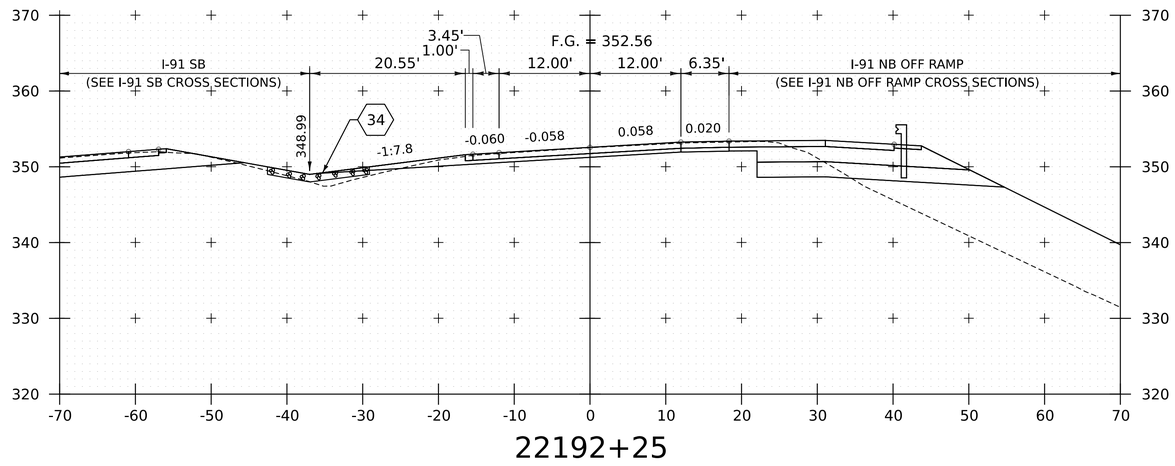
22191+50



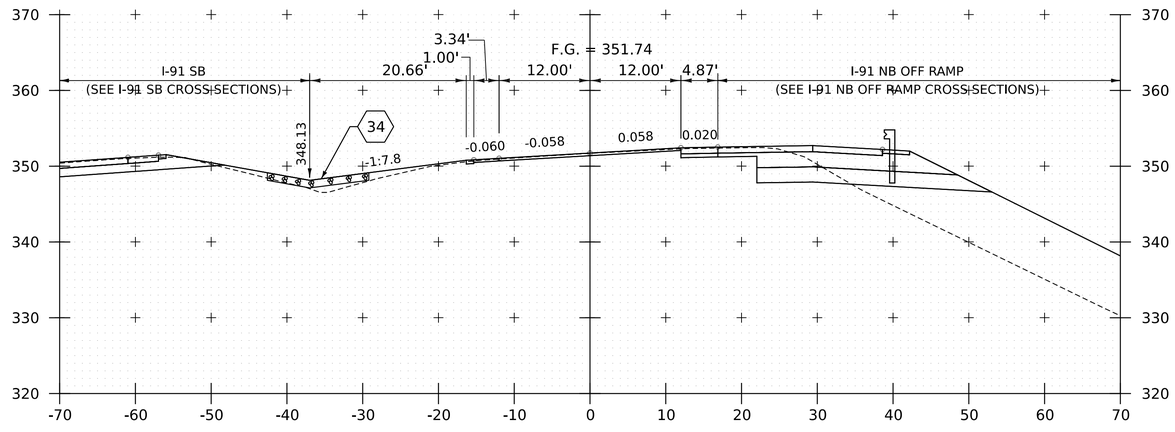
22191+00



22190+50



22192+25

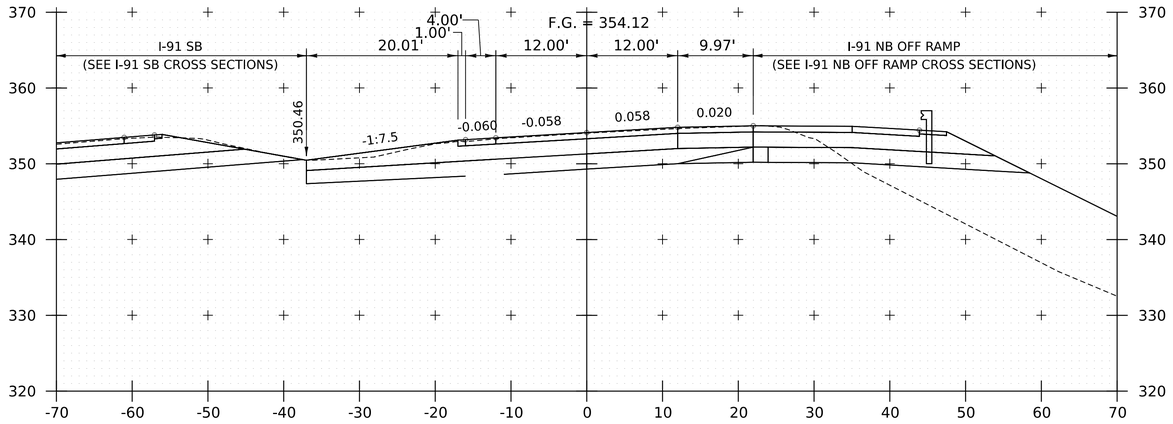


22192+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

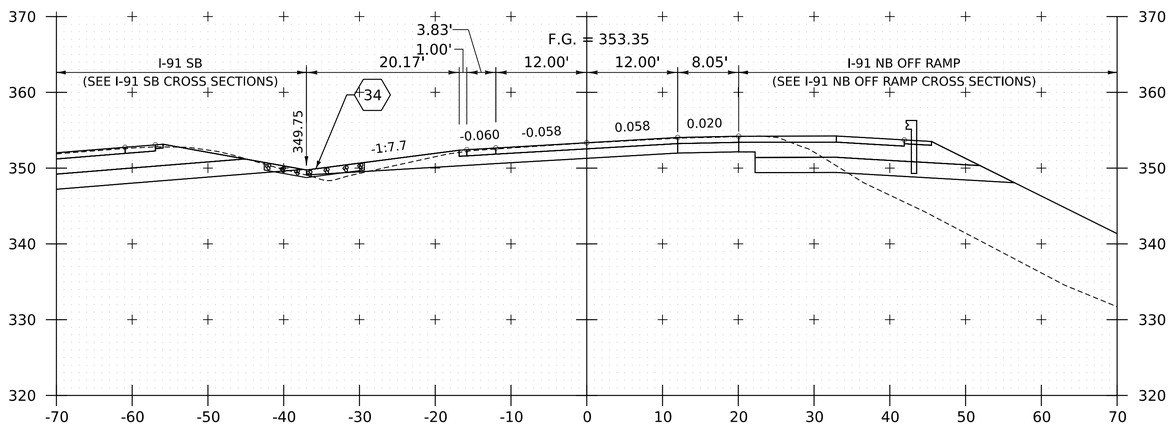
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 22	SHEET 497 OF 922

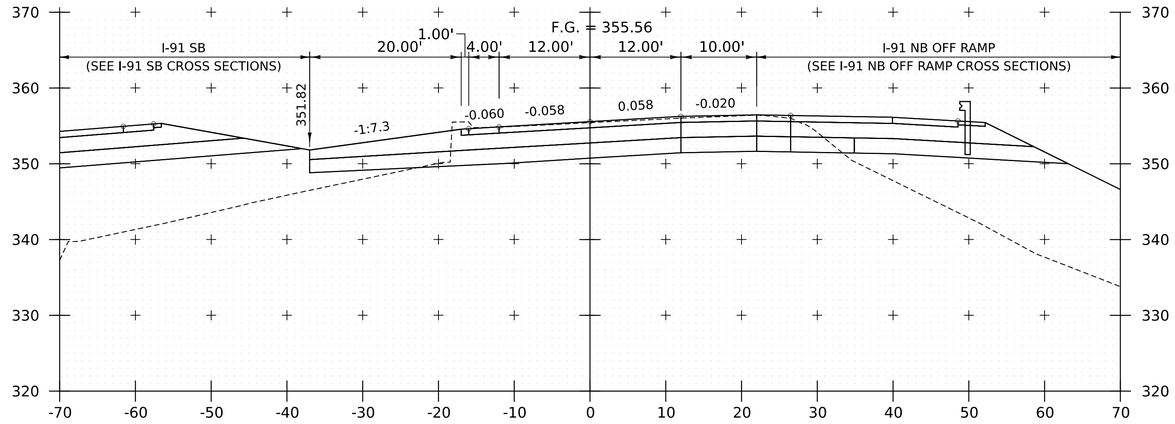


22192+75

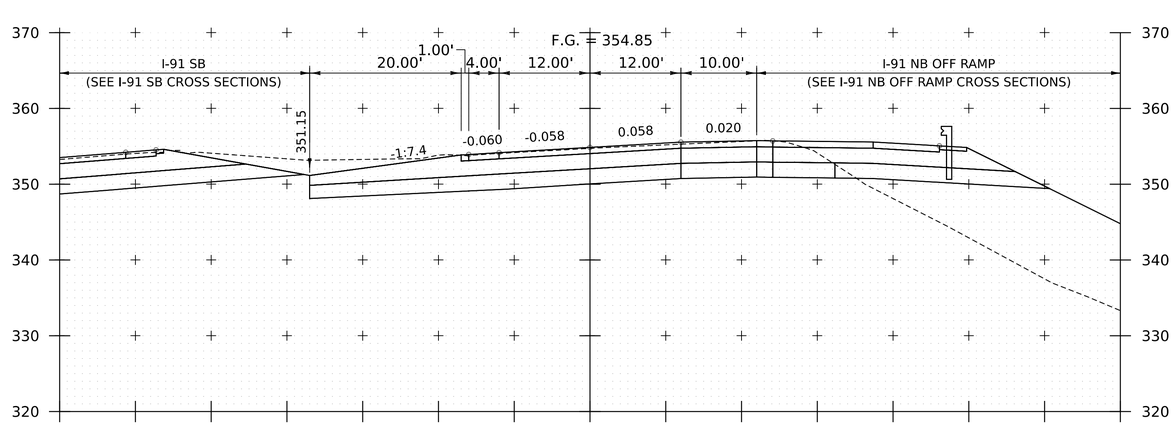
RESUME I-91 NORTHBOUND PROJECT



22192+50



22193+25

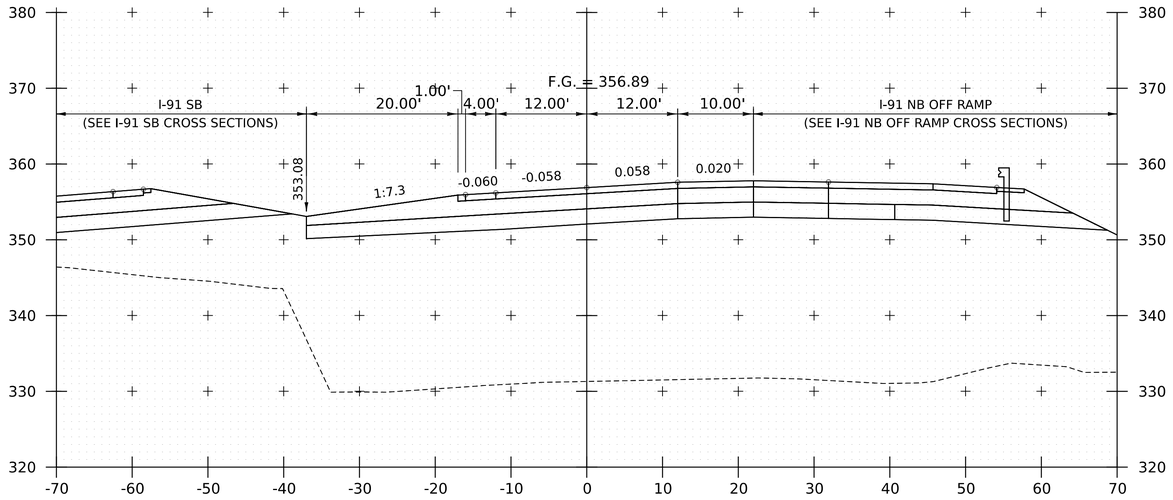


22193+00

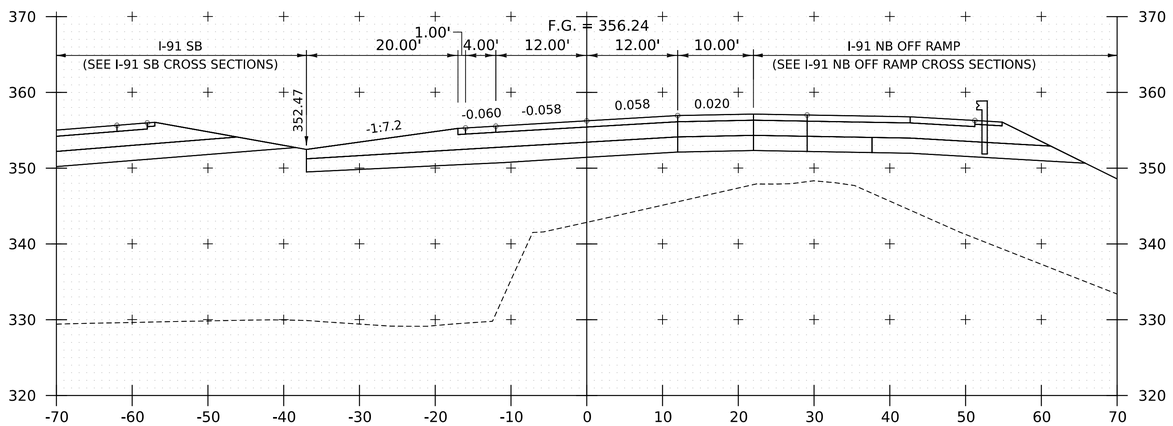
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

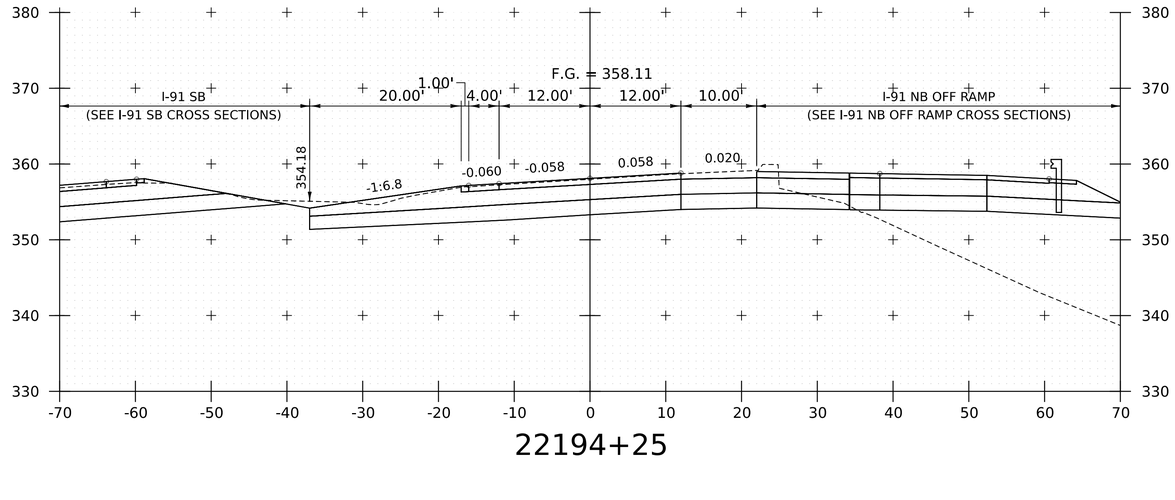
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 23	SHEET 498 OF 922



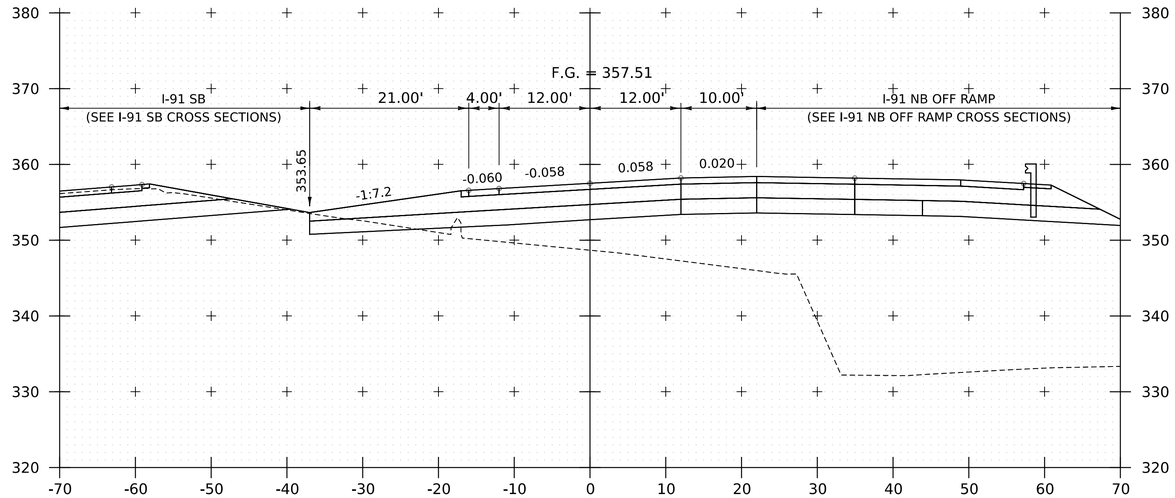
22193+75



22193+50



22194+25

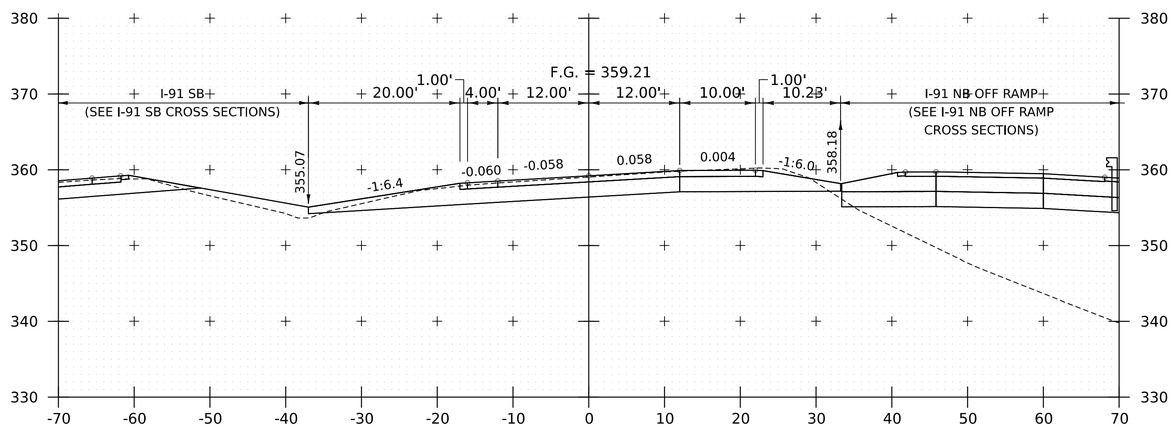


22194+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

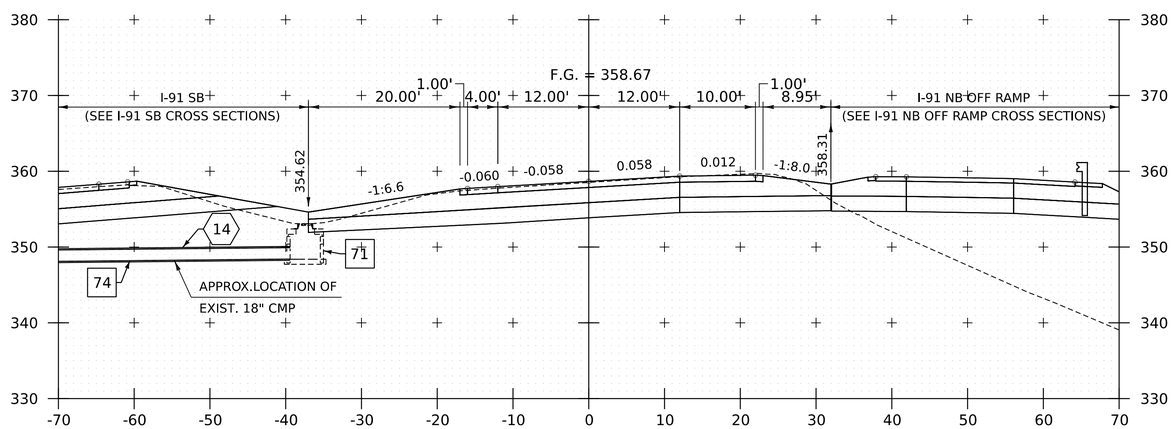
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 24	SHEET 499 OF 922



22194+75

STOP I-91 NORTHBOUND PROJECT



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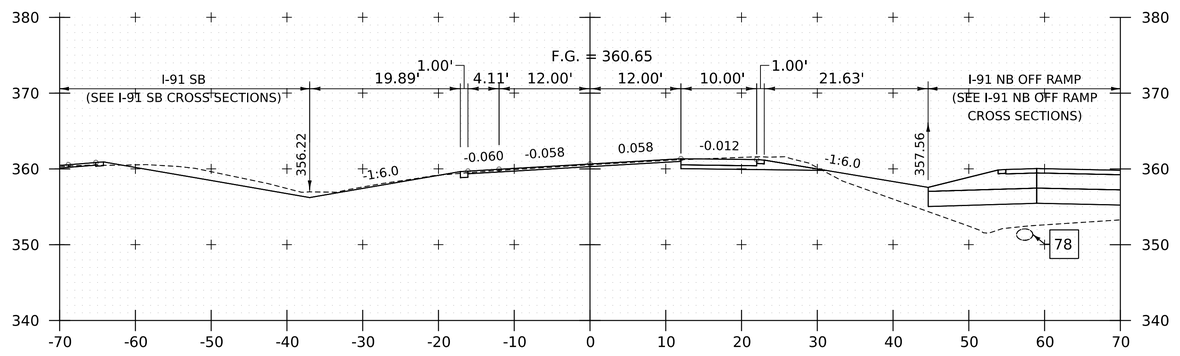
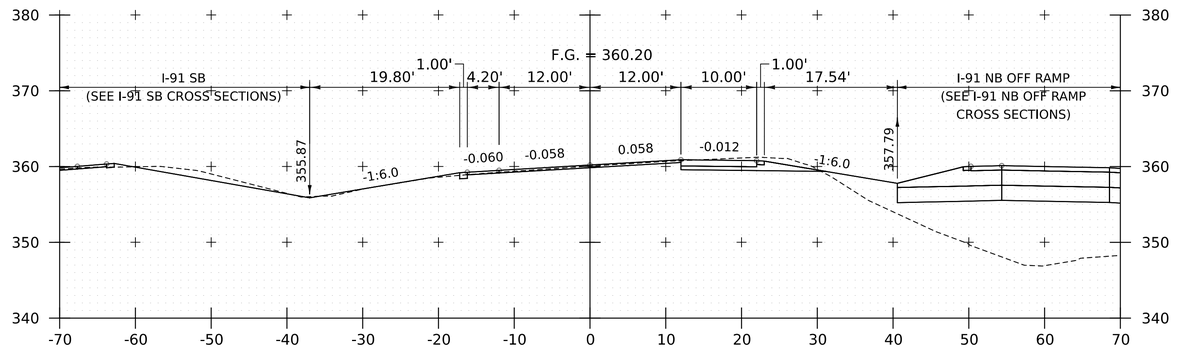
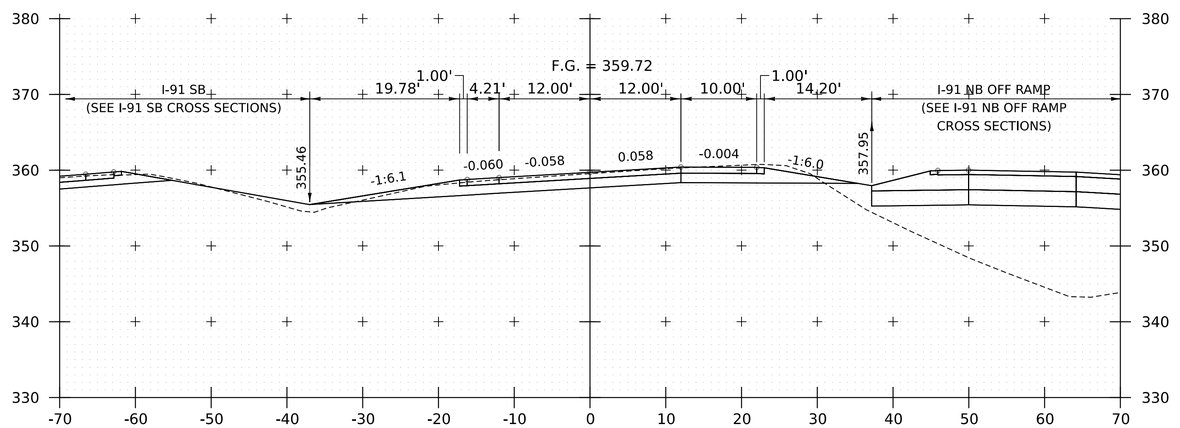


22195+50



22195+25

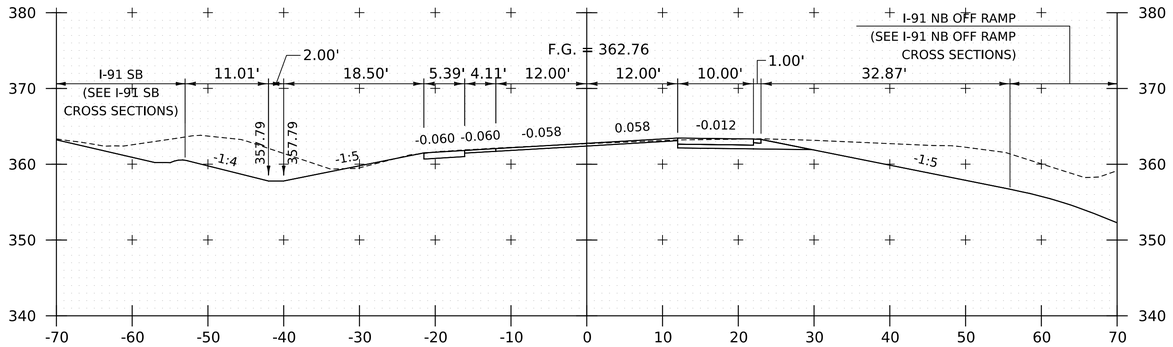


22195+00

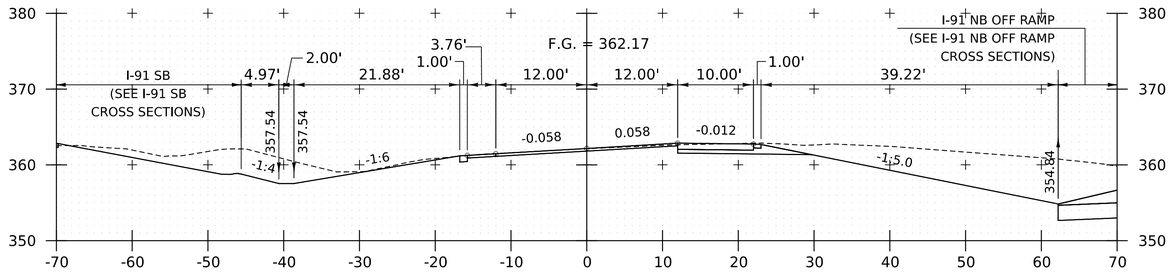
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

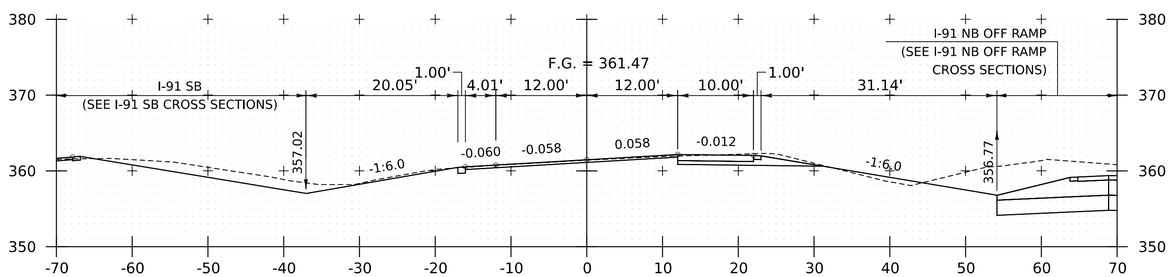
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 25	SHEET 500 OF 922



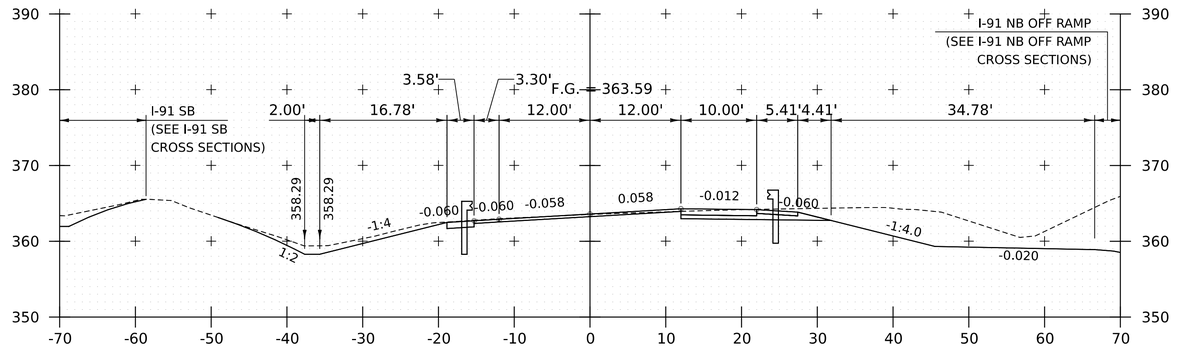
22197+00



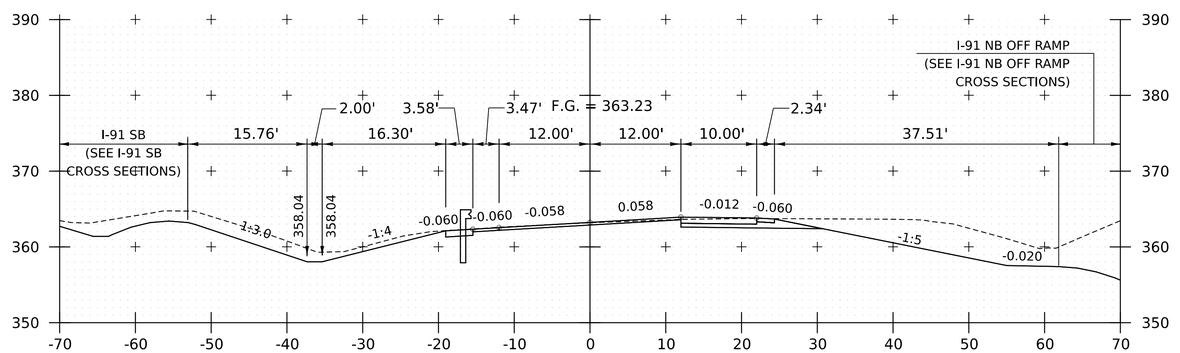
22196+50



22196+00



22198+00

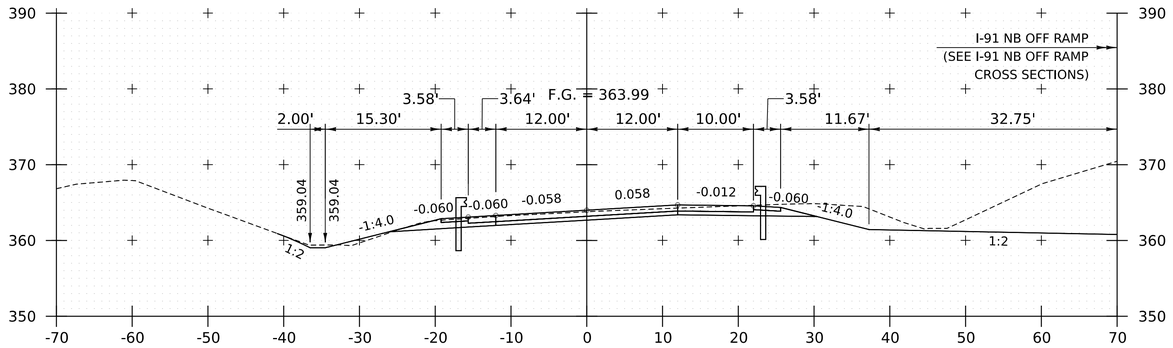


22197+50

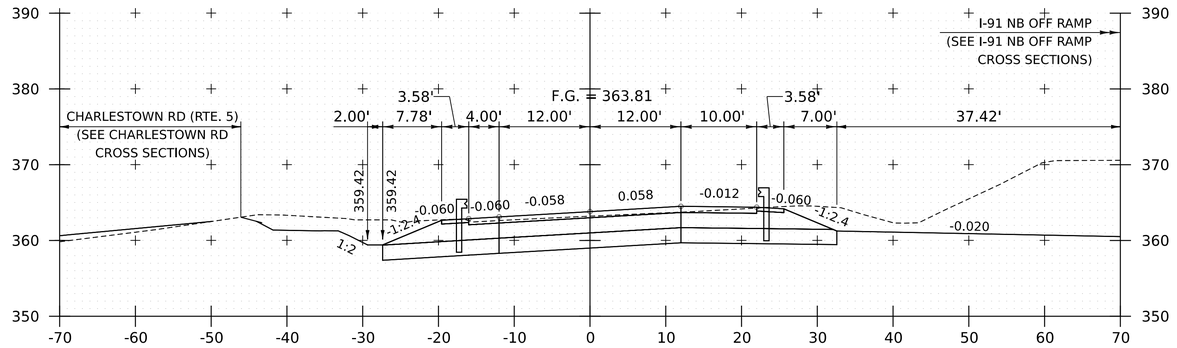
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

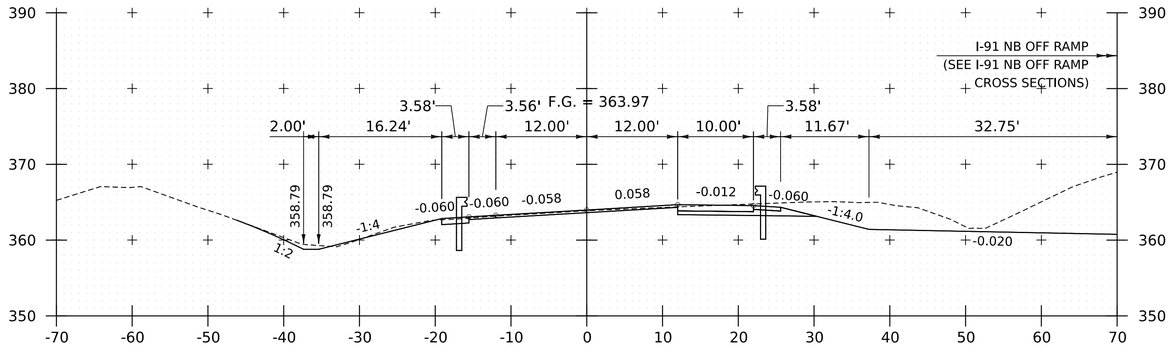
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 26	SHEET 501 OF 922



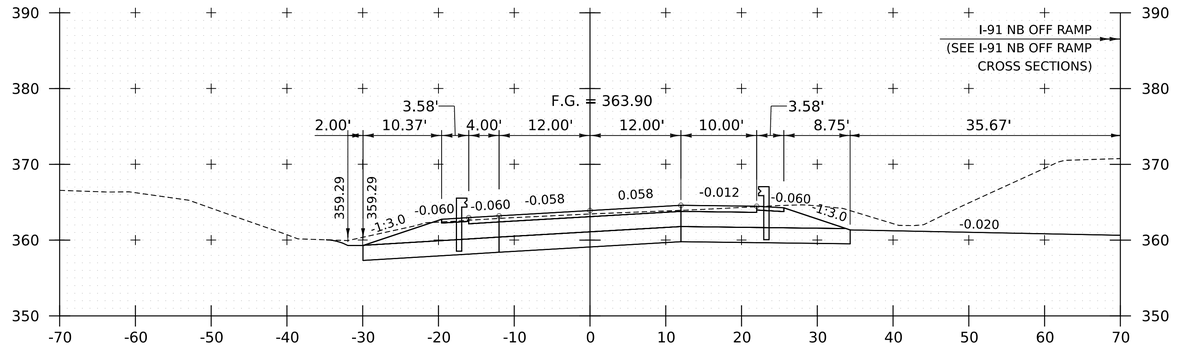
22199+50



22200+25

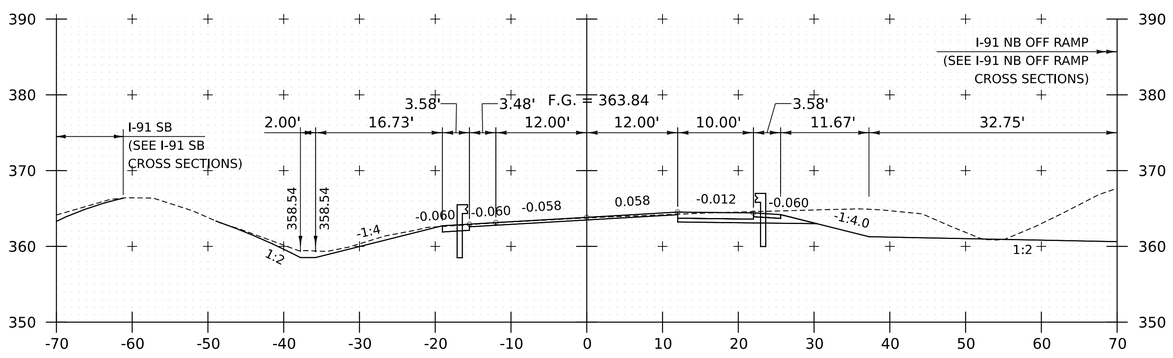


22199+00



22200+00

RESUME I-91 NORTHBOUND PROJECT



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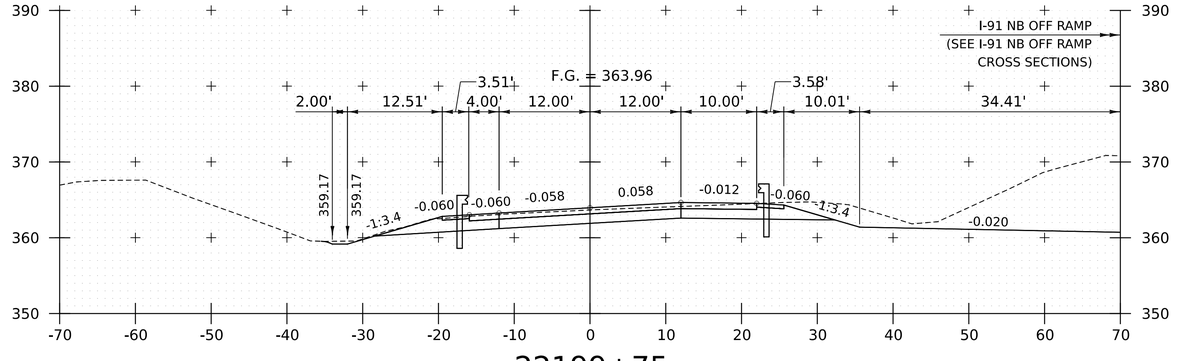
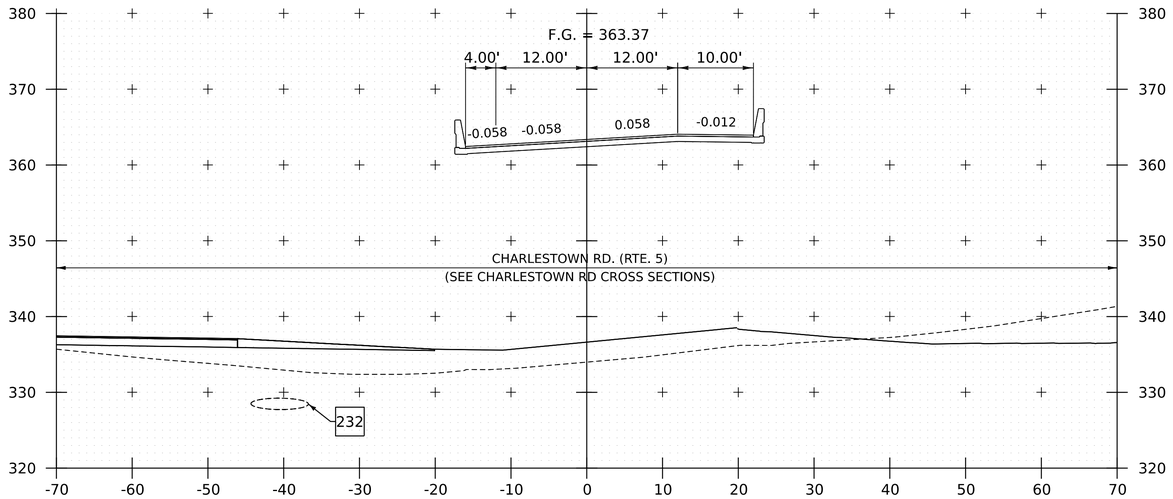


22199+75

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 27	SHEET 502 OF 922

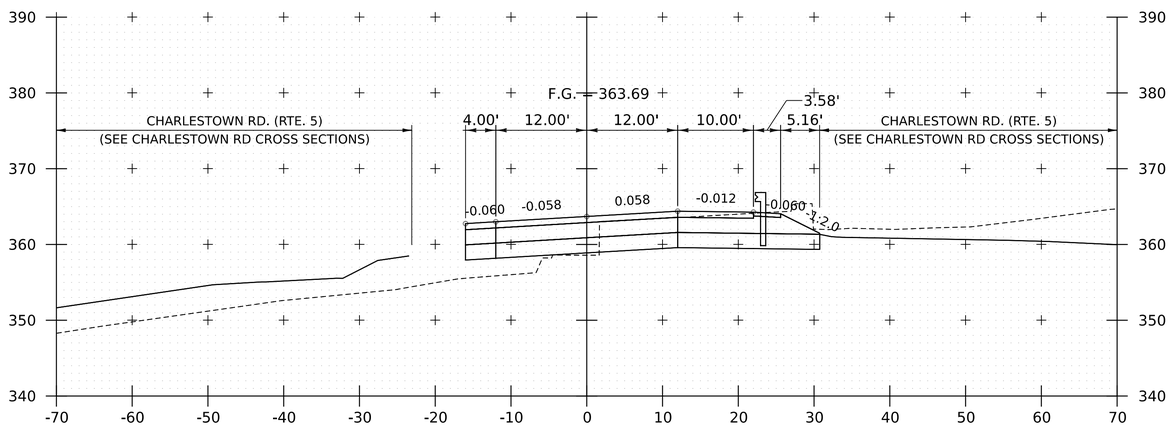
HNTB



22201+00

BEGIN BRIDGE 28N

22200+59.13



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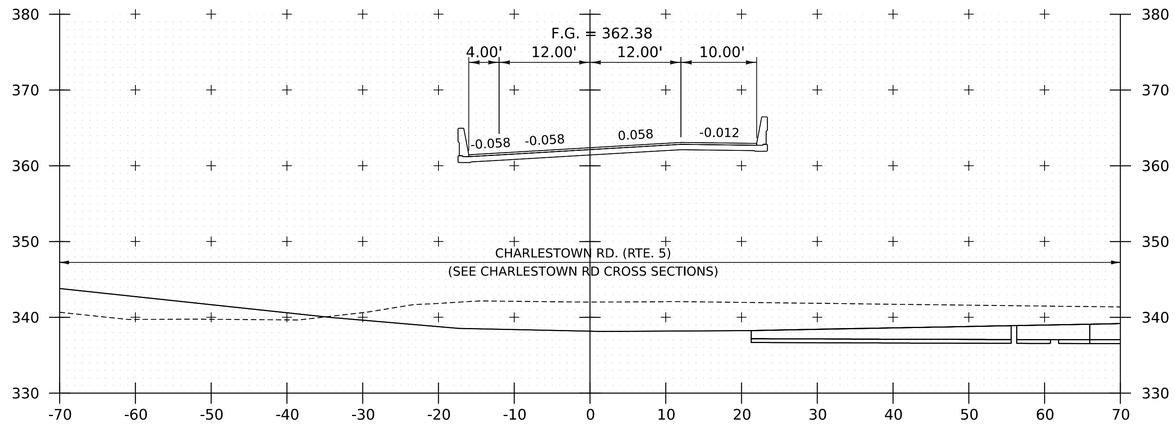
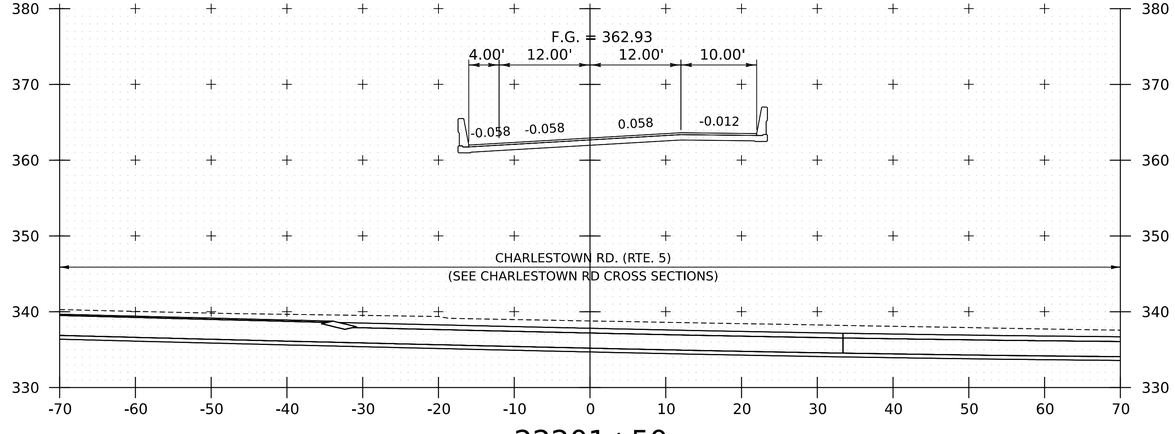


22202+00

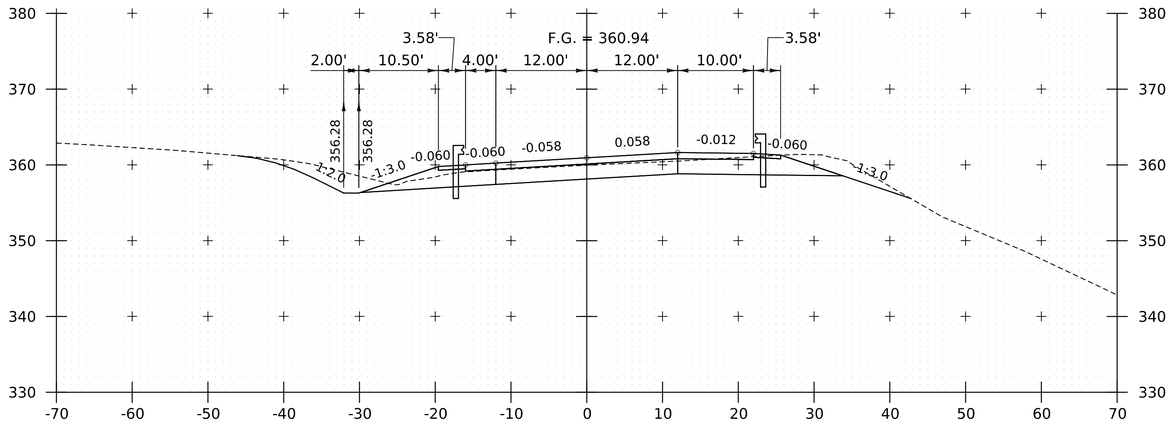


22201+50

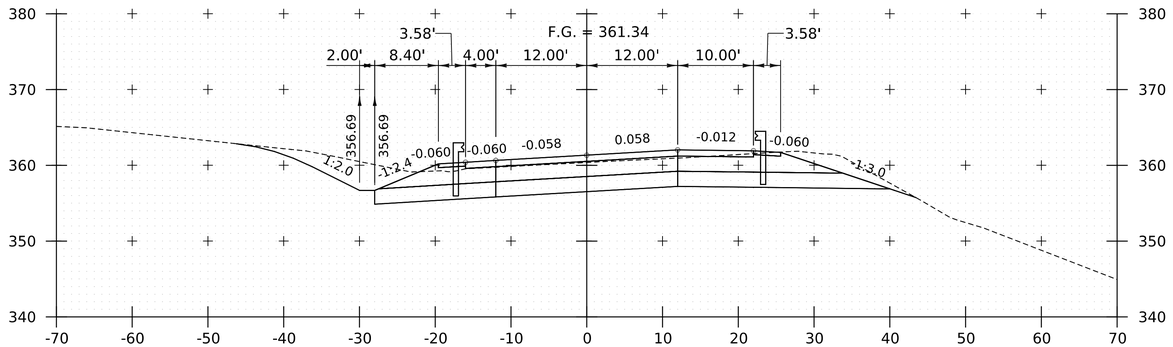
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

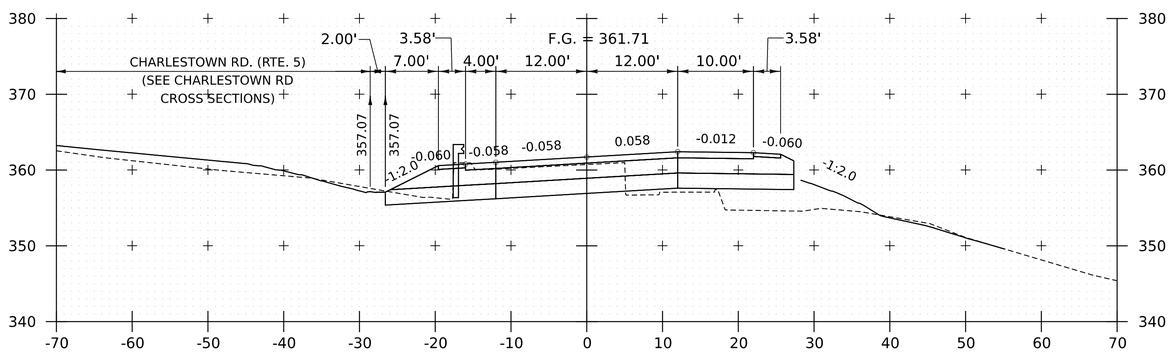
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 28	SHEET 503 OF 922



22203+00



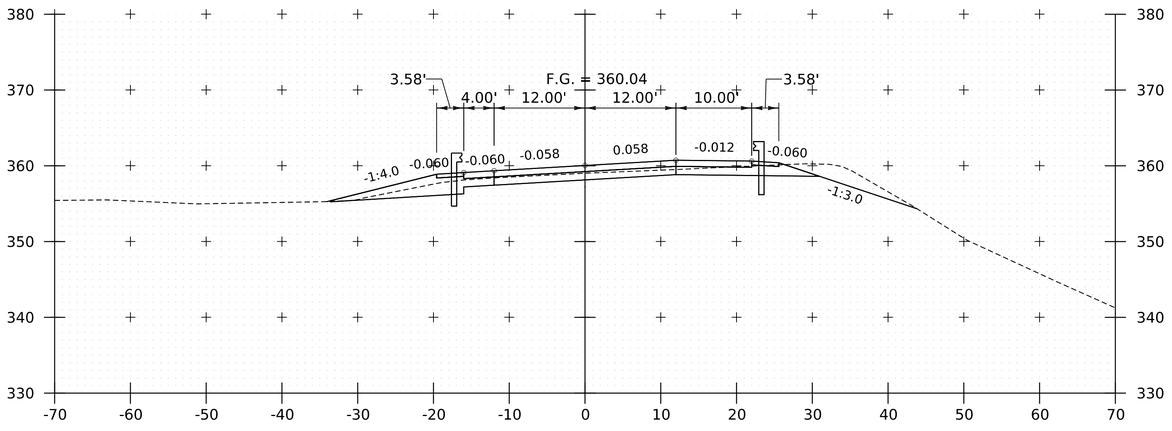
22202+75



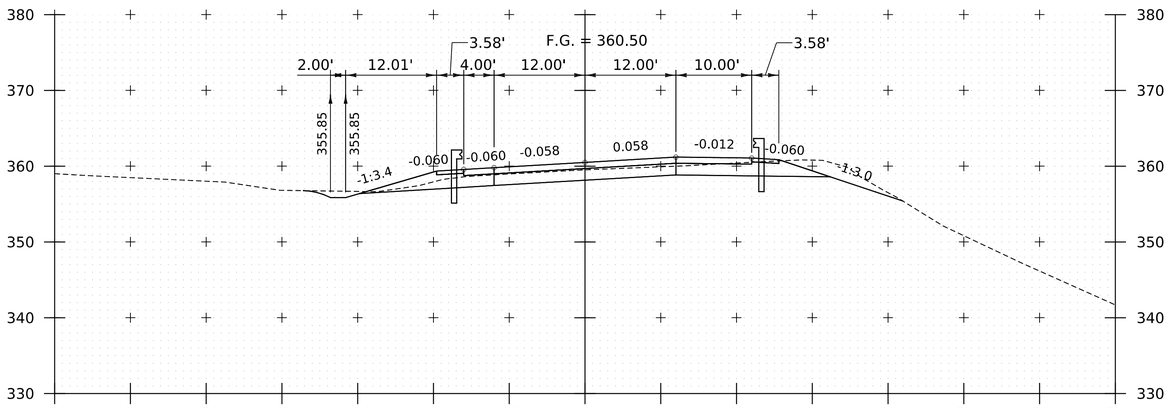
22202+50

END BRIDGE 28N

22202+40.86



22203+50

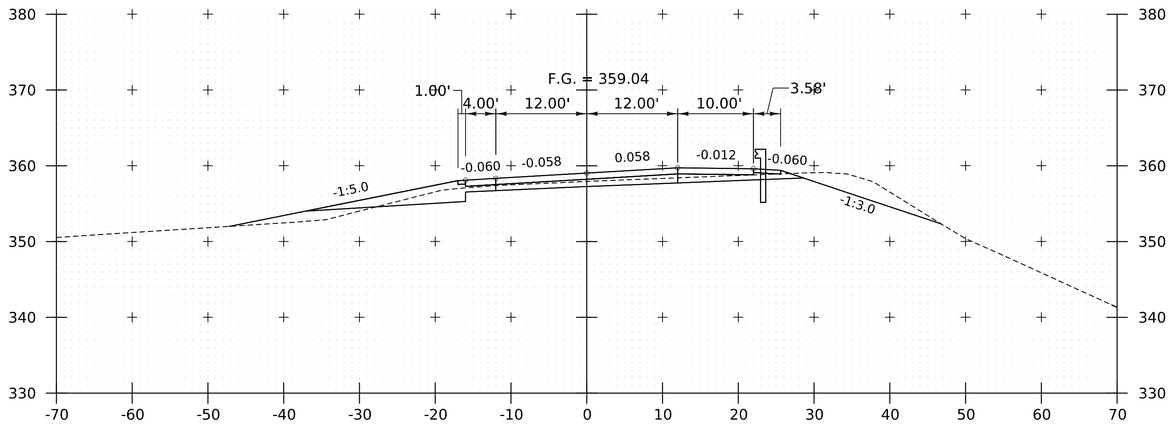


22203+25

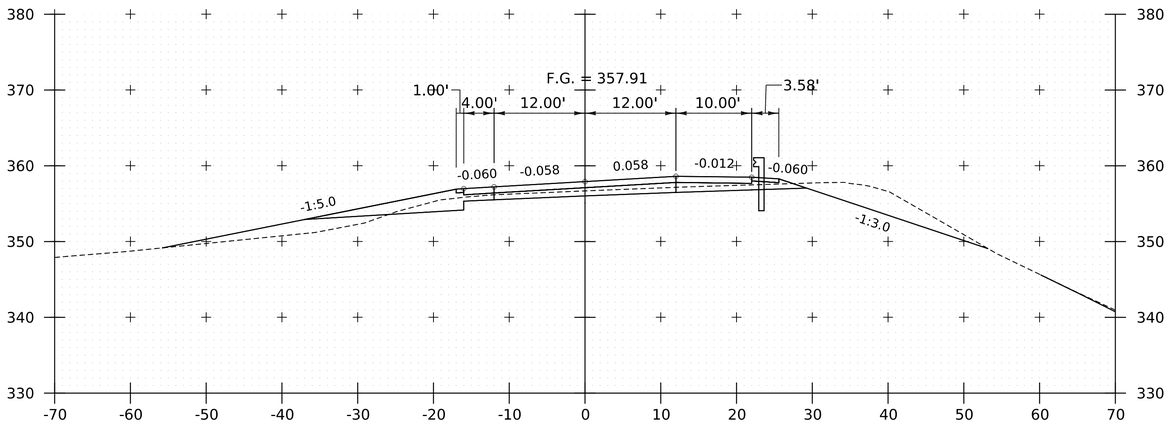
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

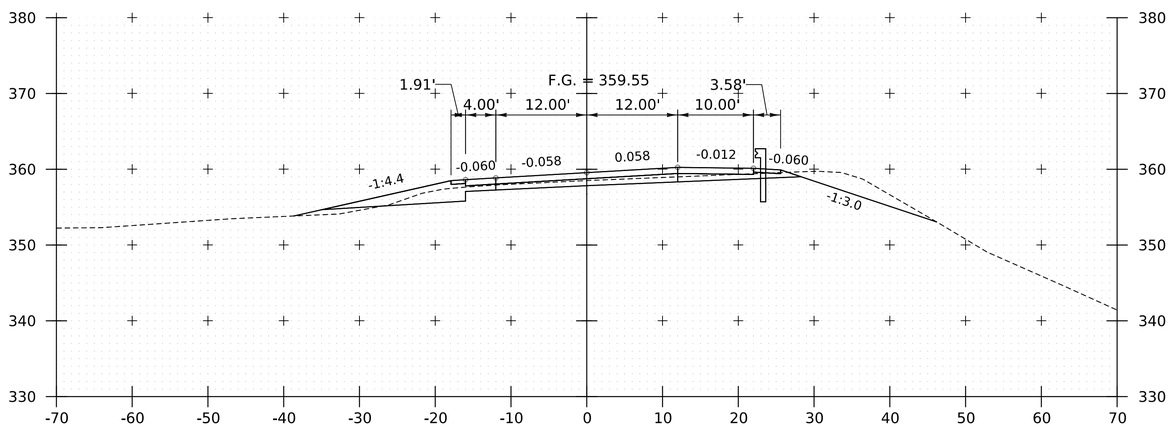
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 29		SHEET	504 OF 922



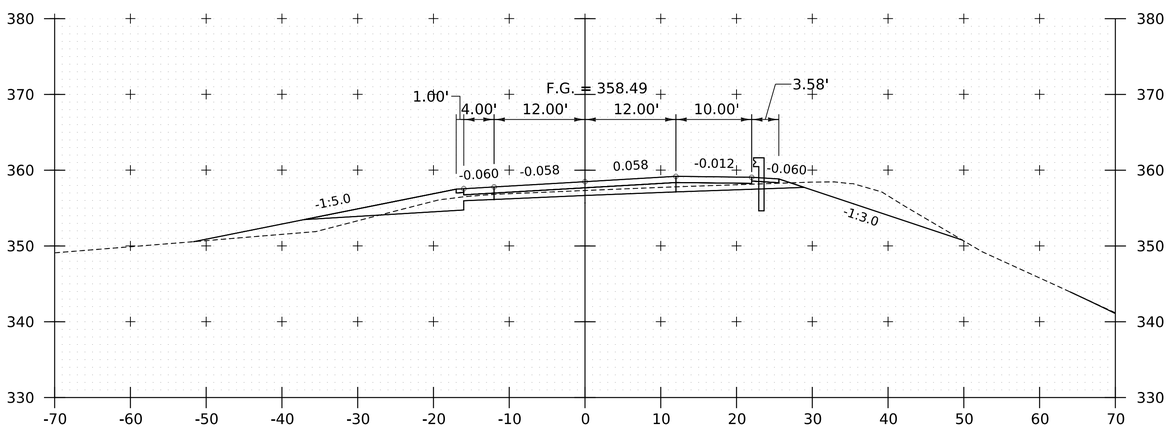
22204+00



22204+50



22203+75

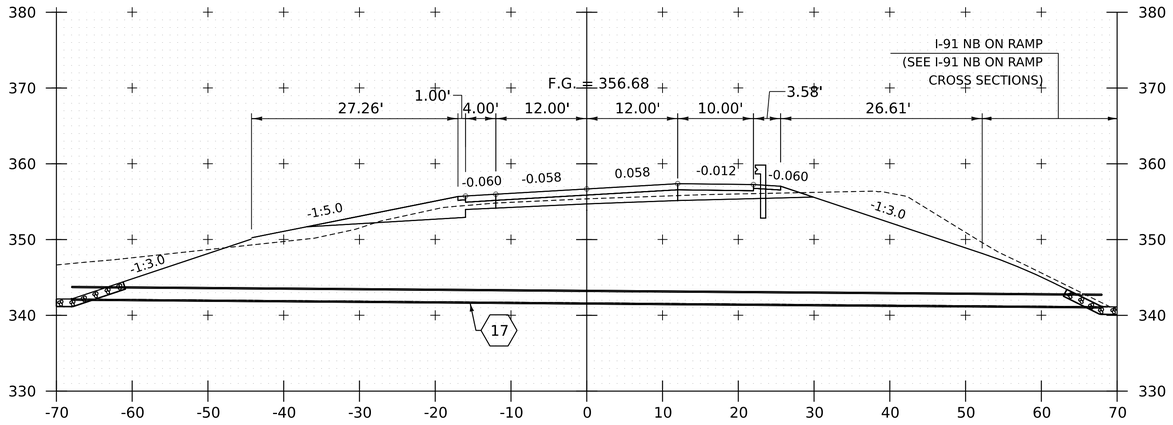


22204+25

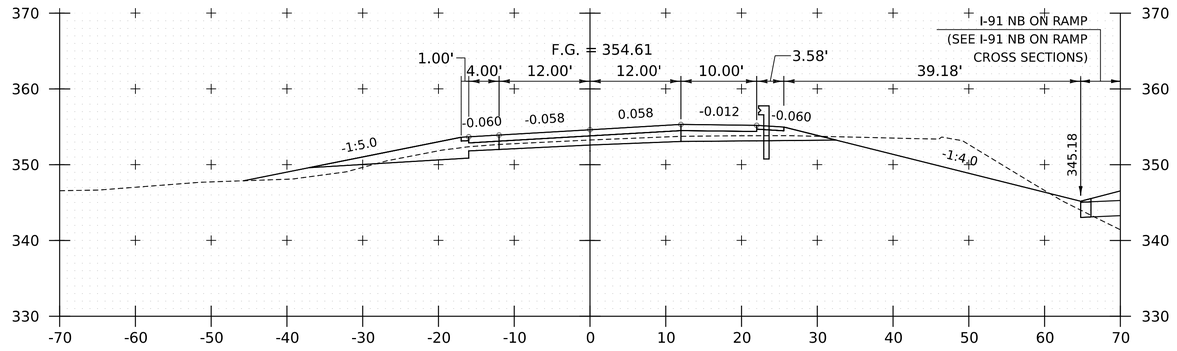
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

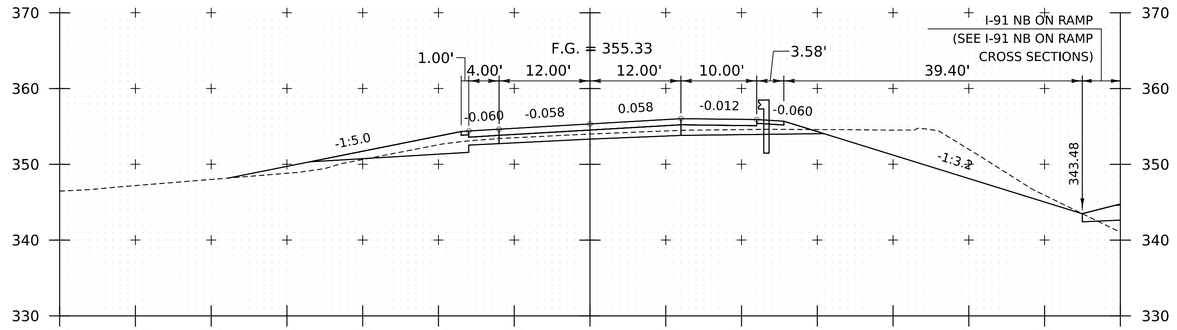
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 30	SHEET 505 OF 922



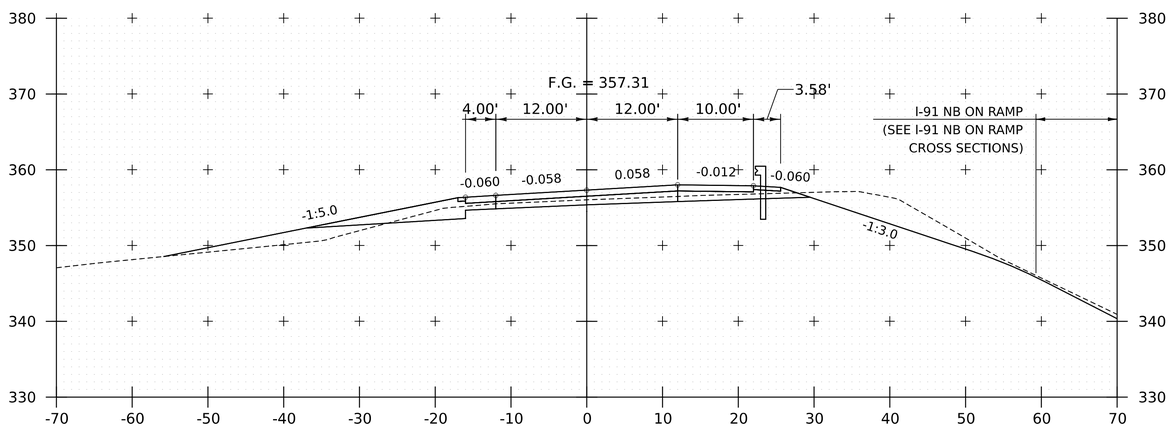
22205+00



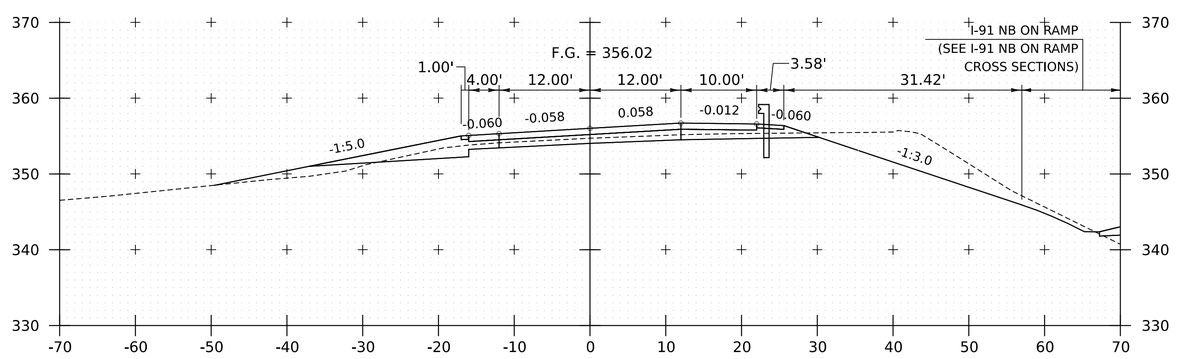
22205+75



22205+50



22204+75

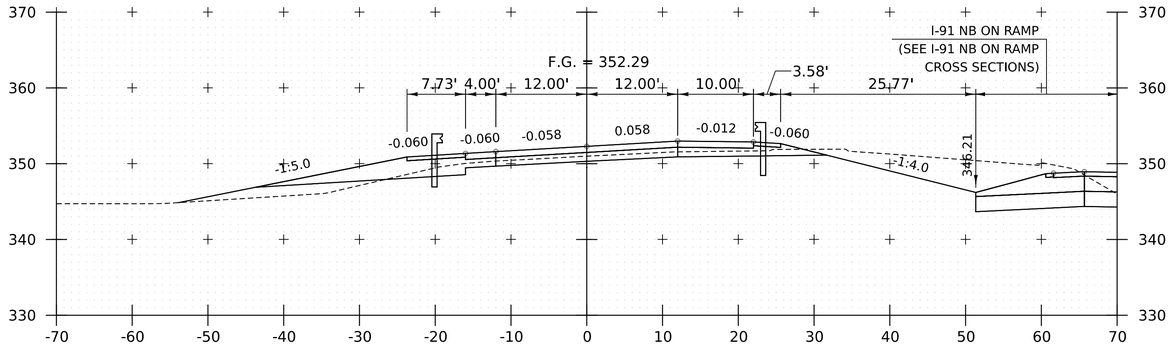


22205+25

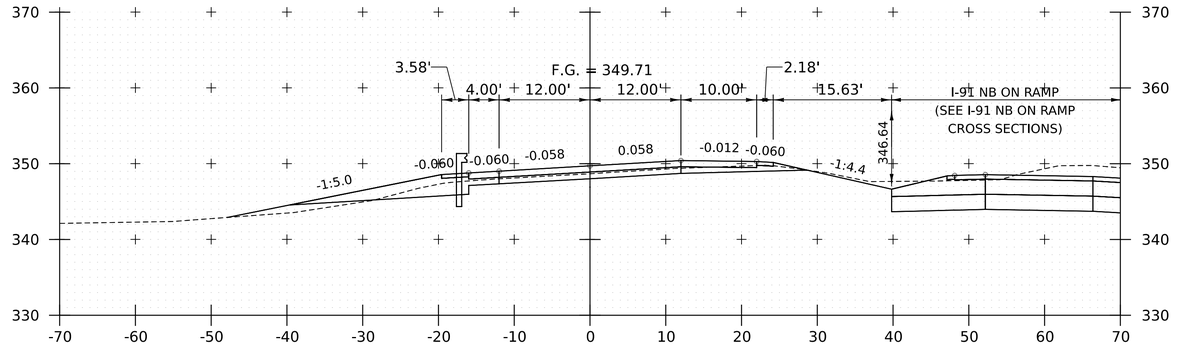
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 31	SHEET 506 OF 922

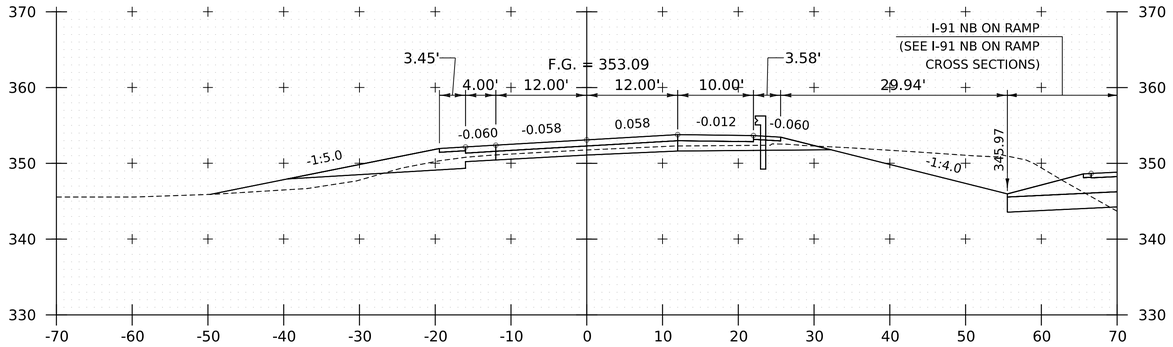
HNTB



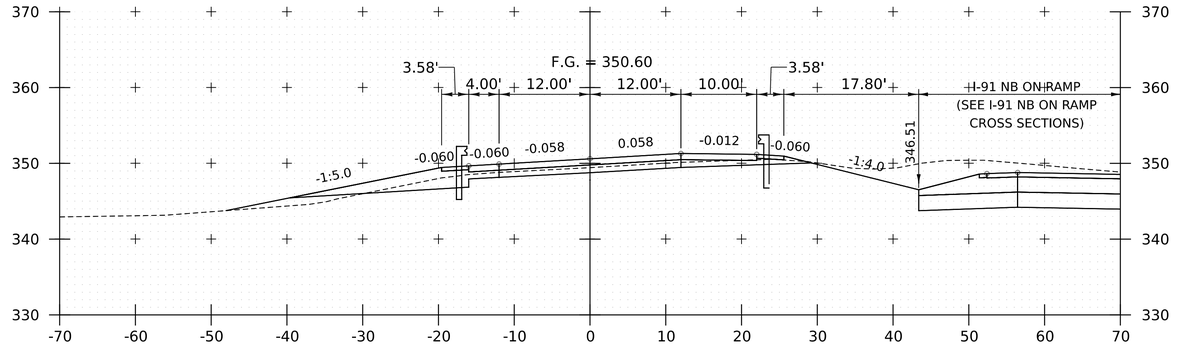
22206+50



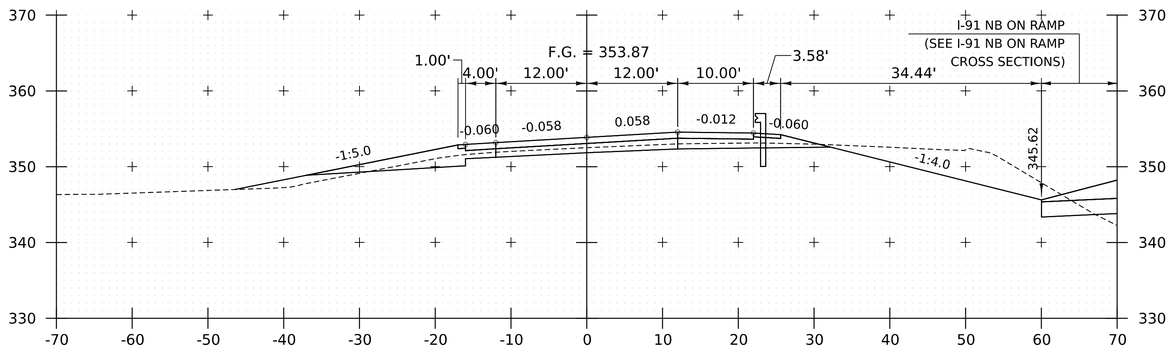
22207+25



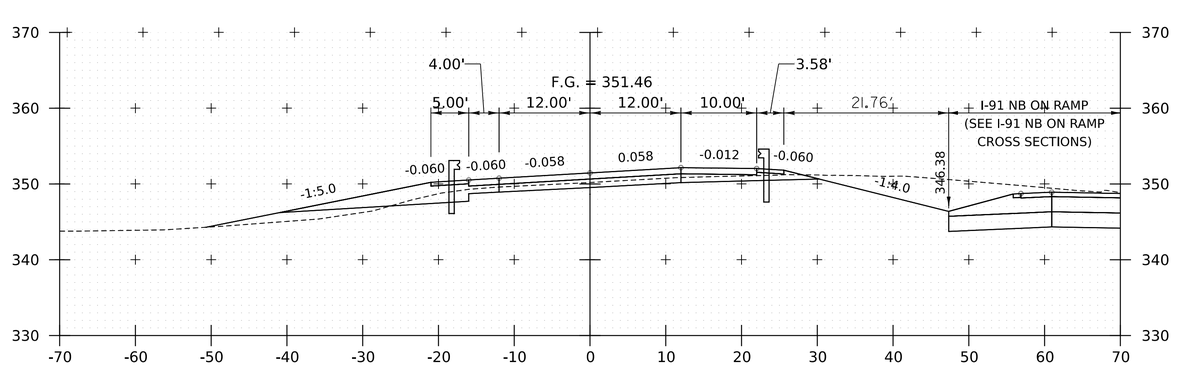
22206+25



22207+00



22206+00

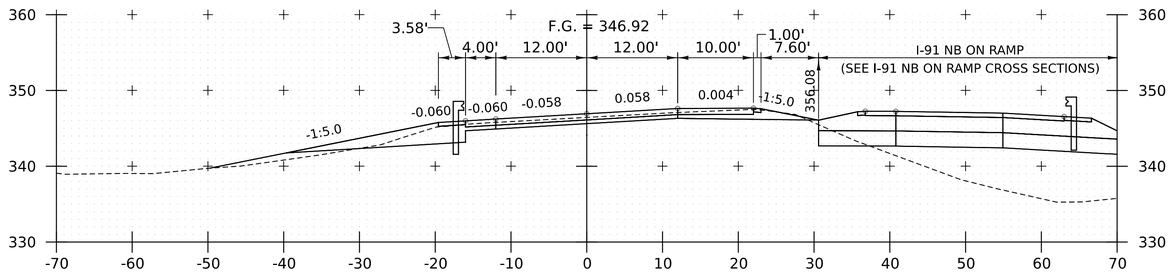


22206+75

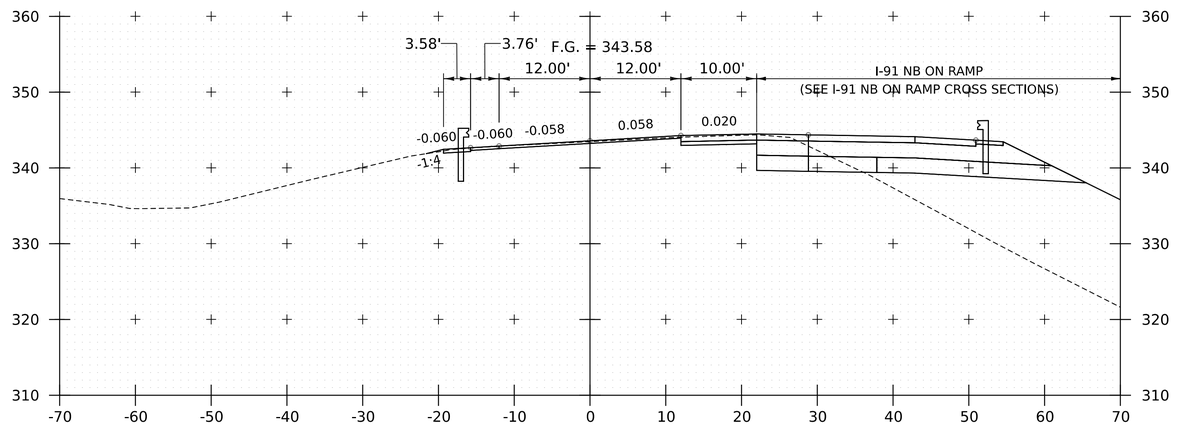
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

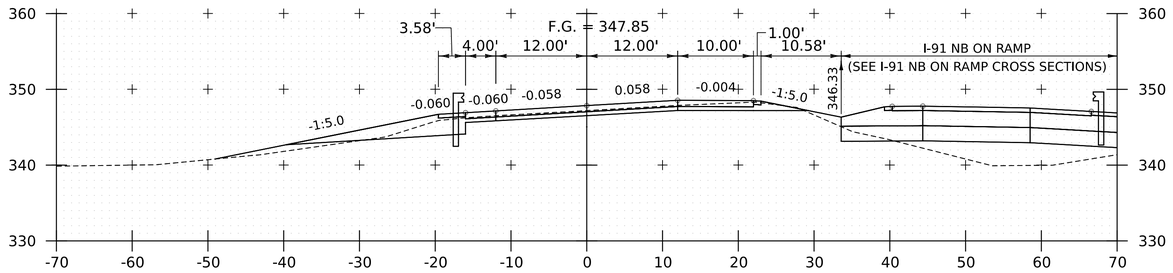
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 32	SHEET 507 OF 922



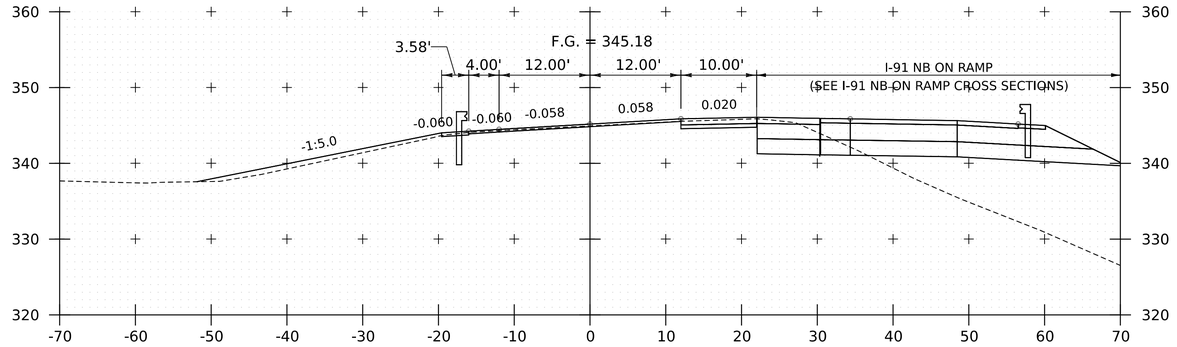
22208+00



22209+00

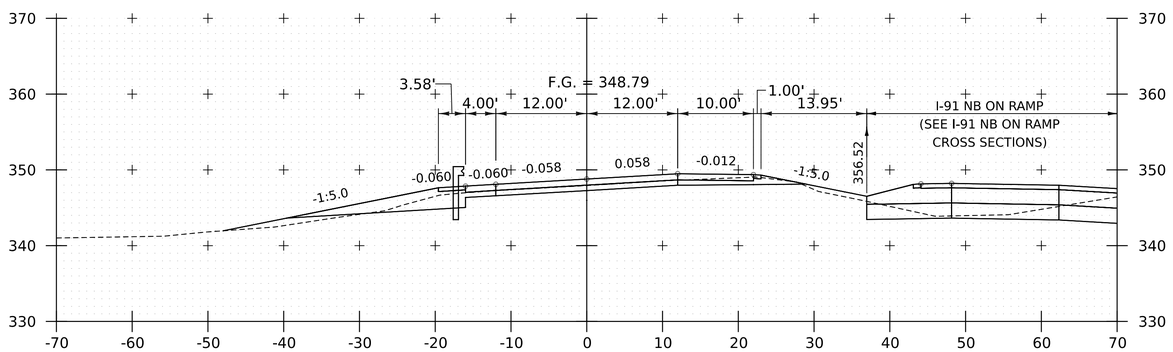


22207+75

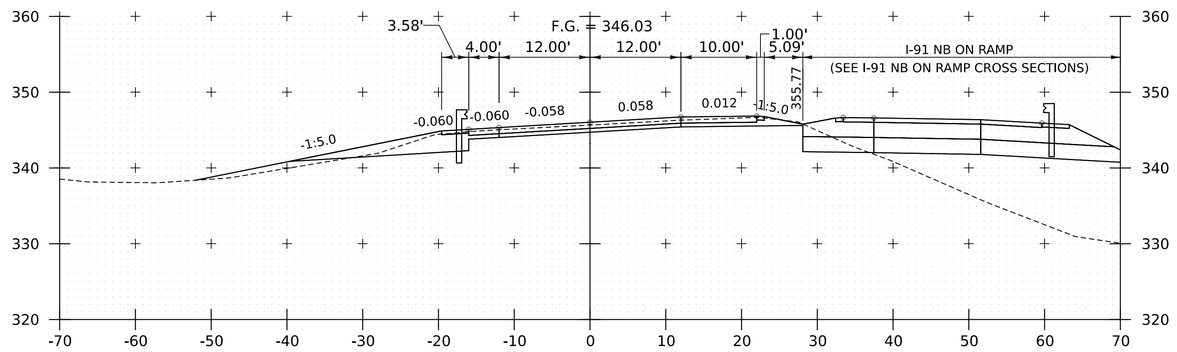


22208+50

END I-91 NORTHBOUND PROJECT



22207+50

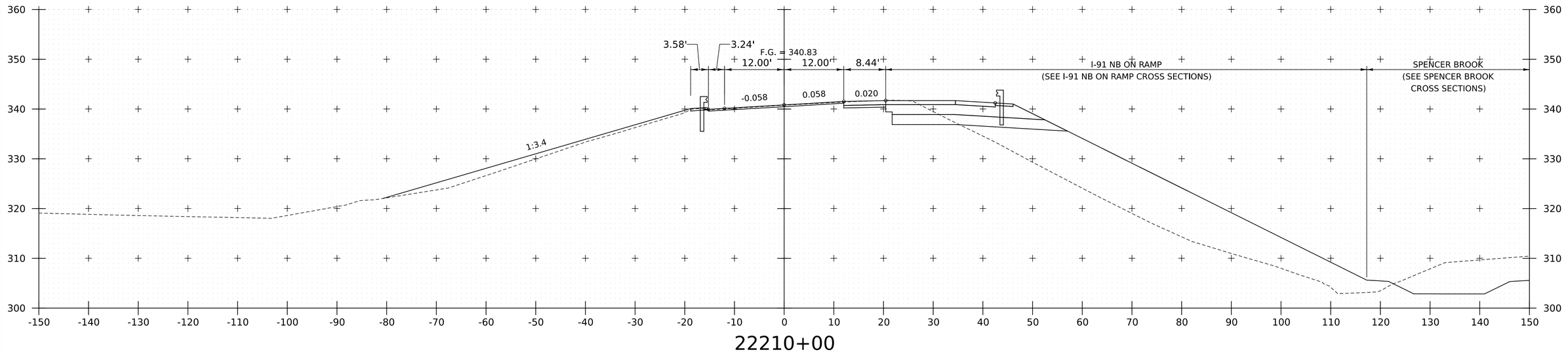


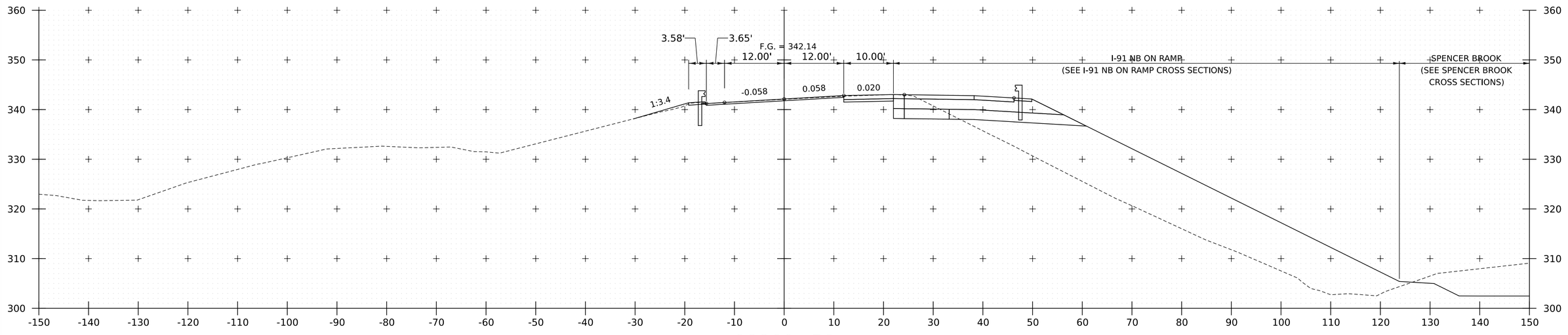
22208+25

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 33	SHEET 508 OF 922

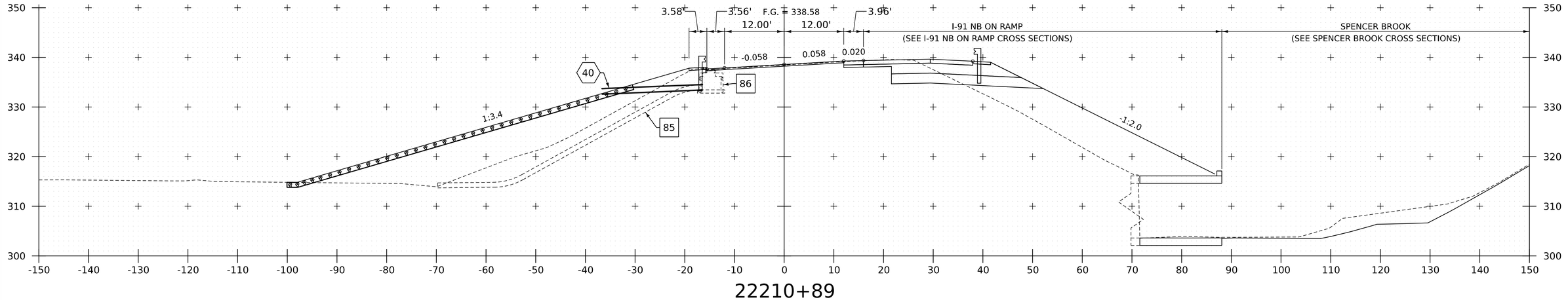




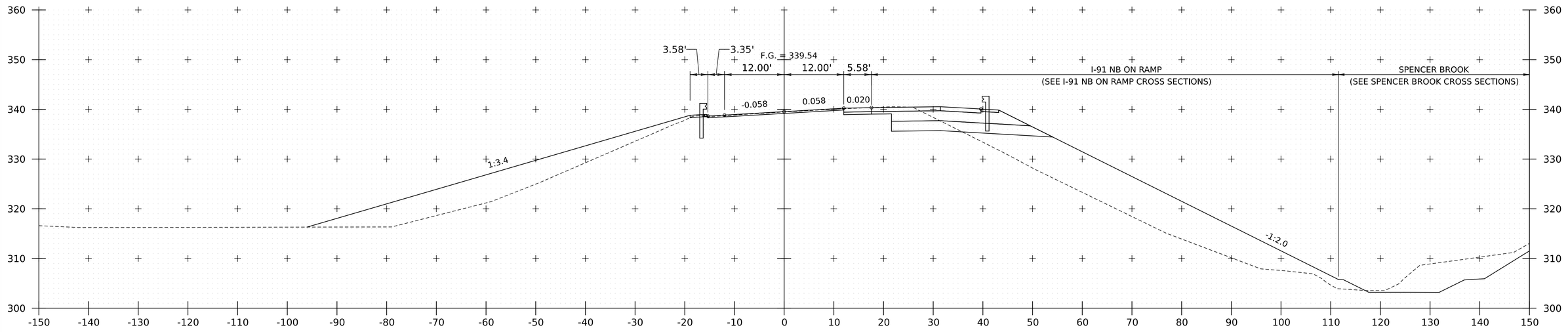
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 34	SHEET 509 OF 922



22210+89



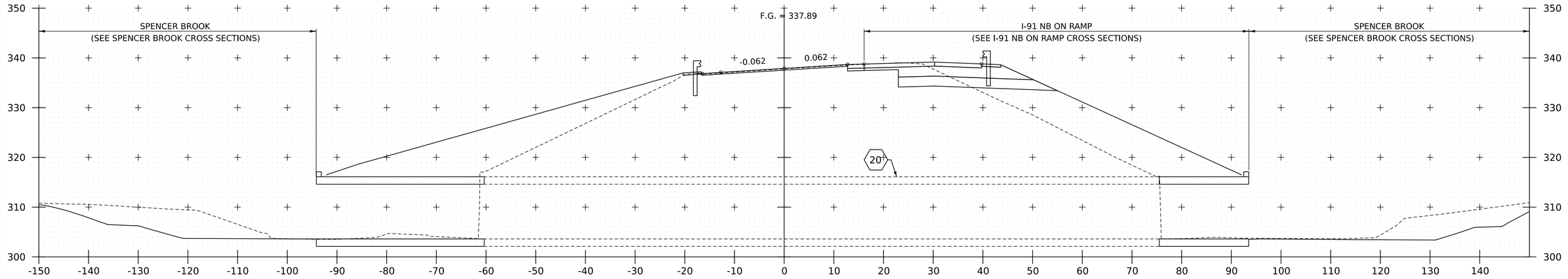
22210+50

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

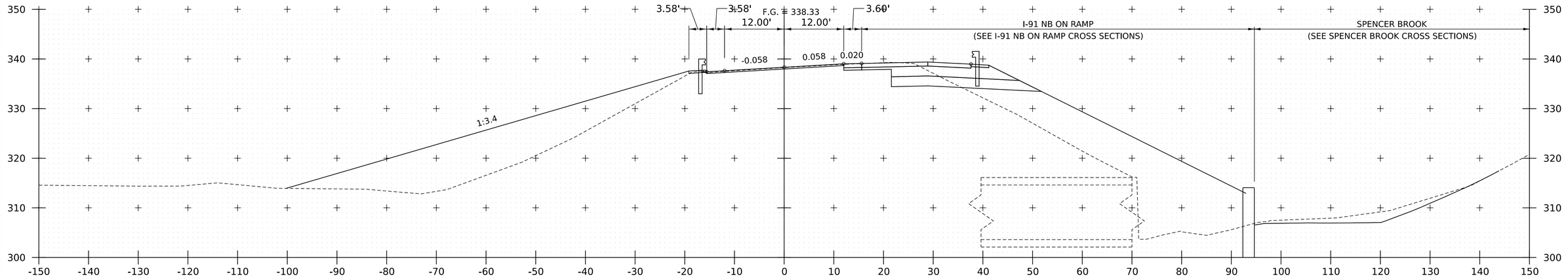
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 35		SHEET	510 OF 922



22211+20 (SKEWED ALONG CULVERT)

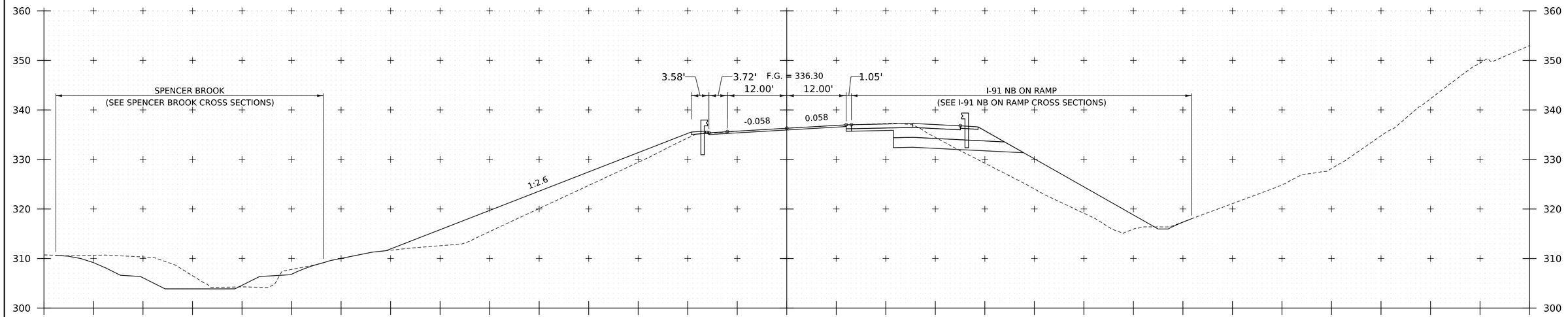


22211+00

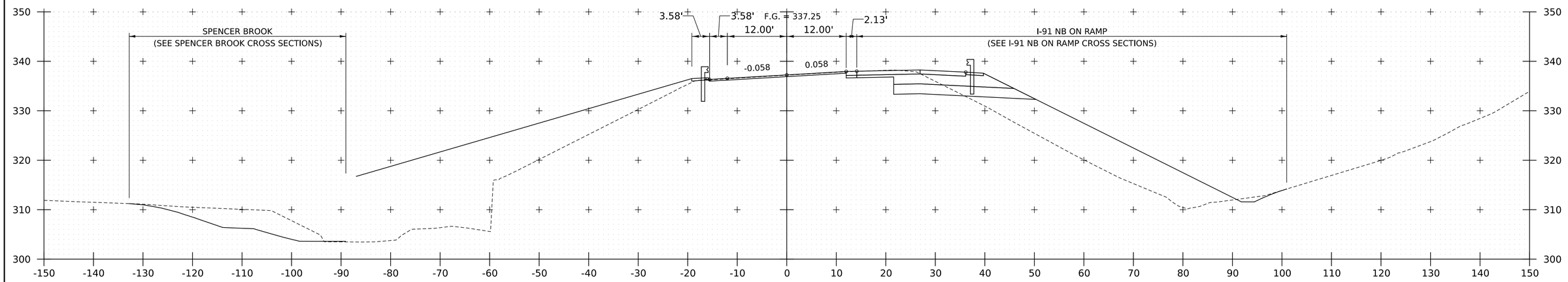
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 36		SHEET	511 OF 922

HNTB



22212+00

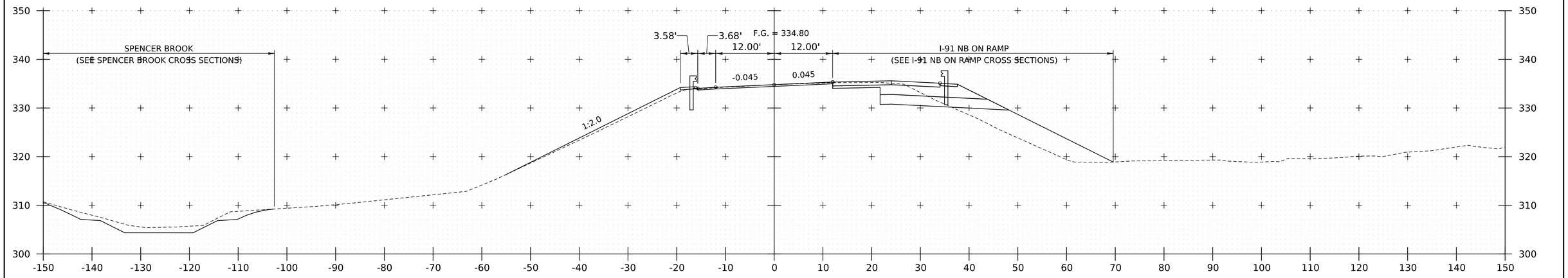


22211+50

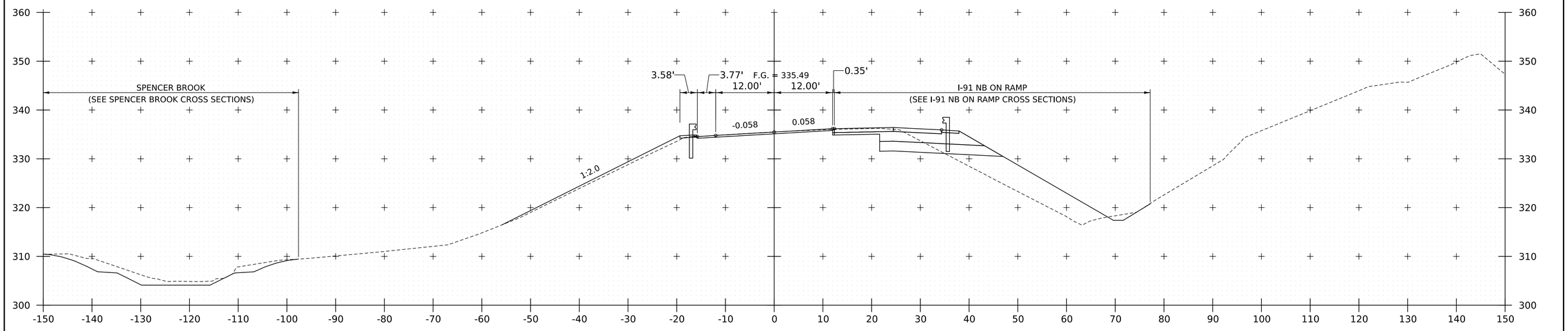
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 37	SHEET 512 OF 922



22213+00

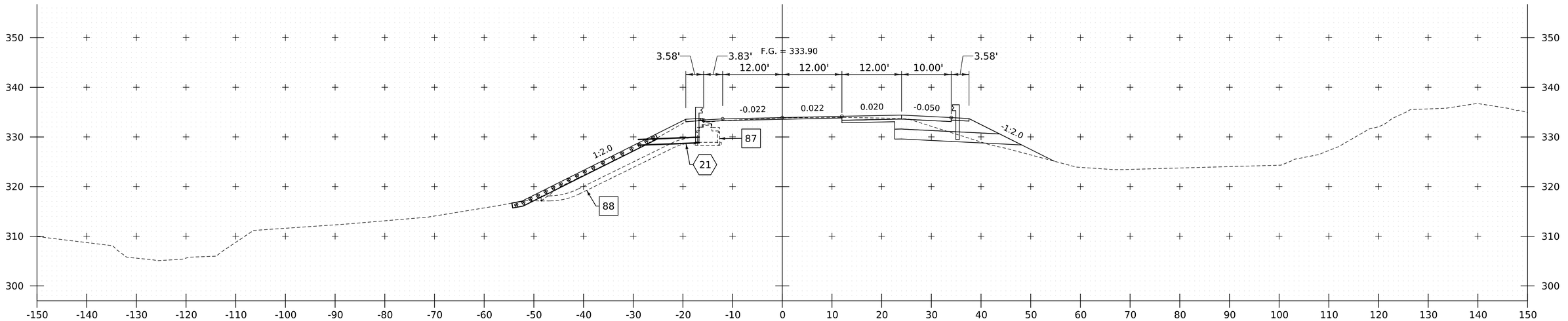


22212+50

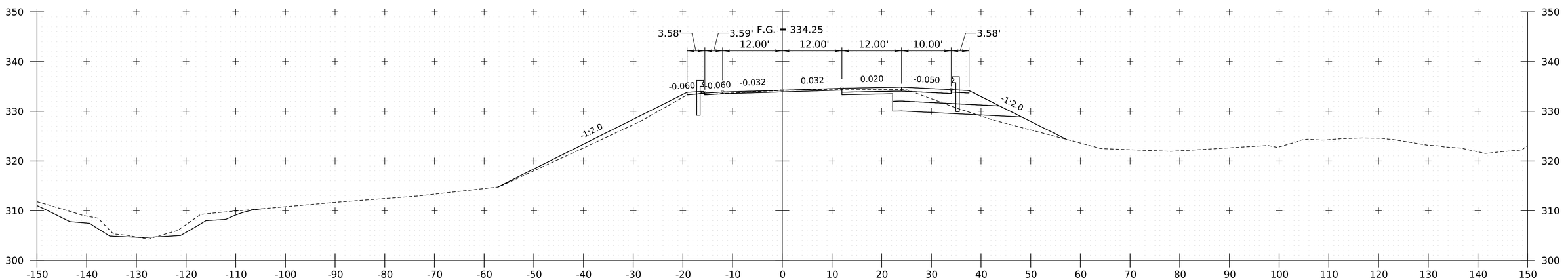
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 38		SHEET	513 OF 922

HNTB



22213+89

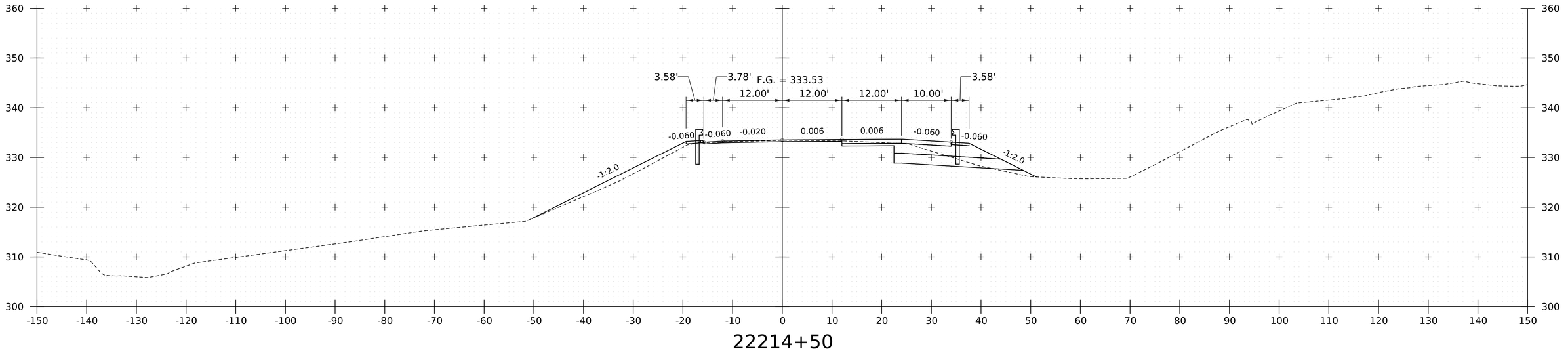


22213+50

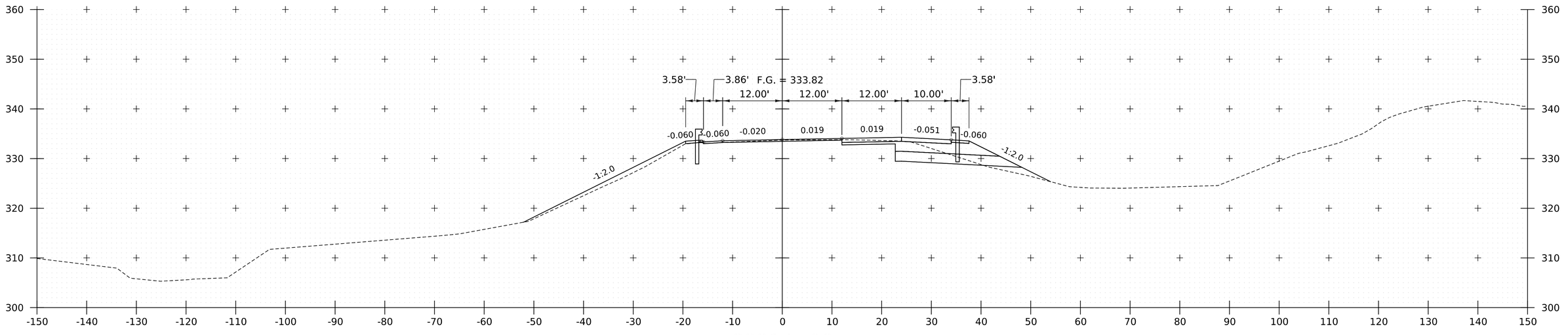
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 39	SHEET 514 OF 922



22214+50

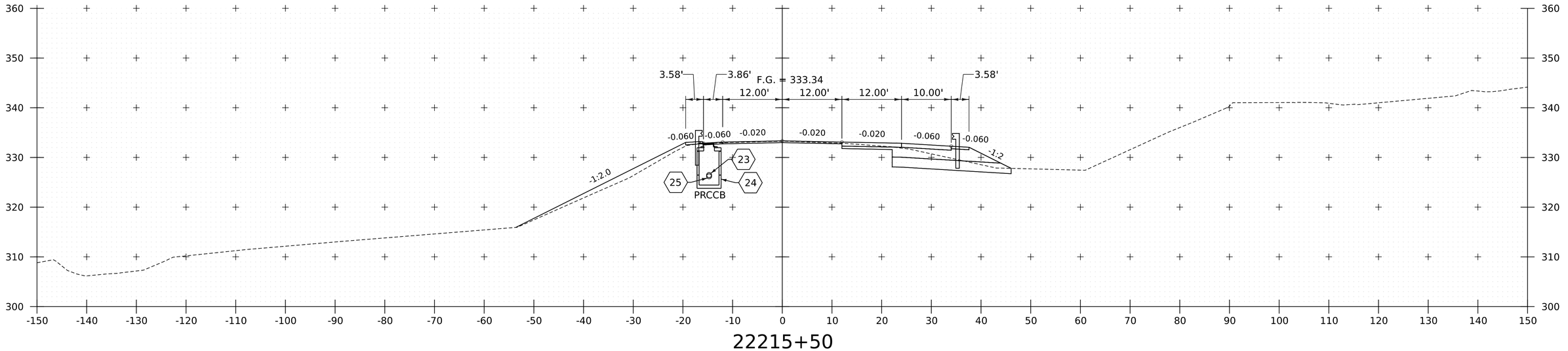


22214+00

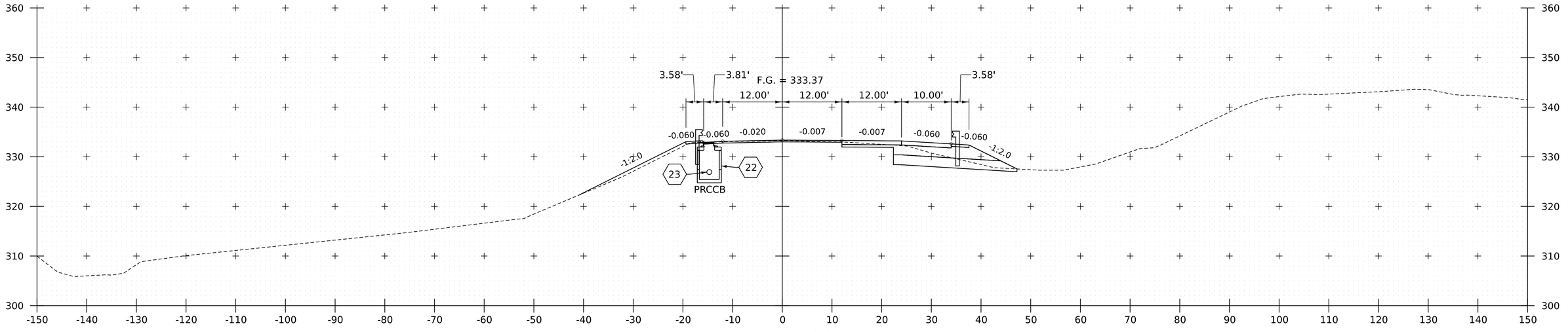
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 40	SHEET 515 OF 922



22215+50

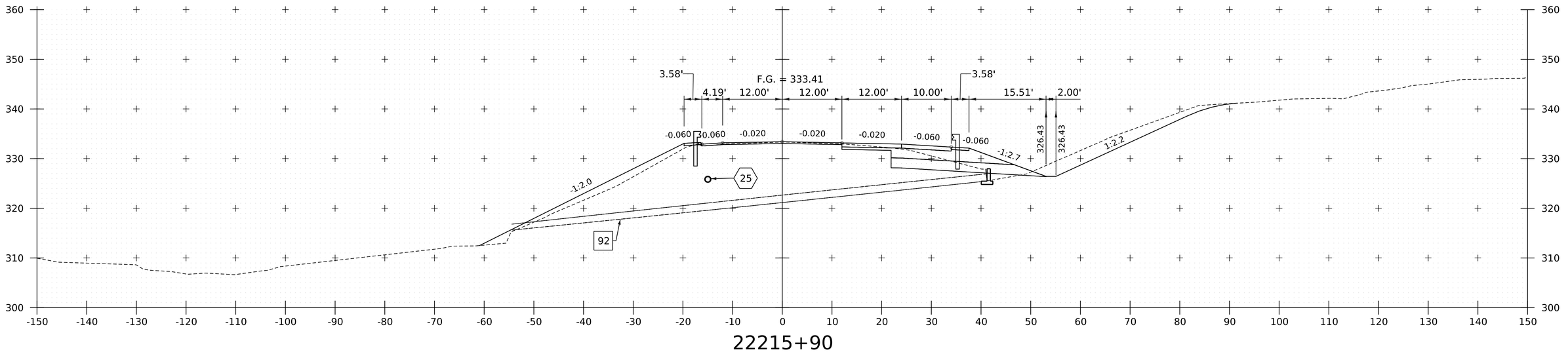


22215+00

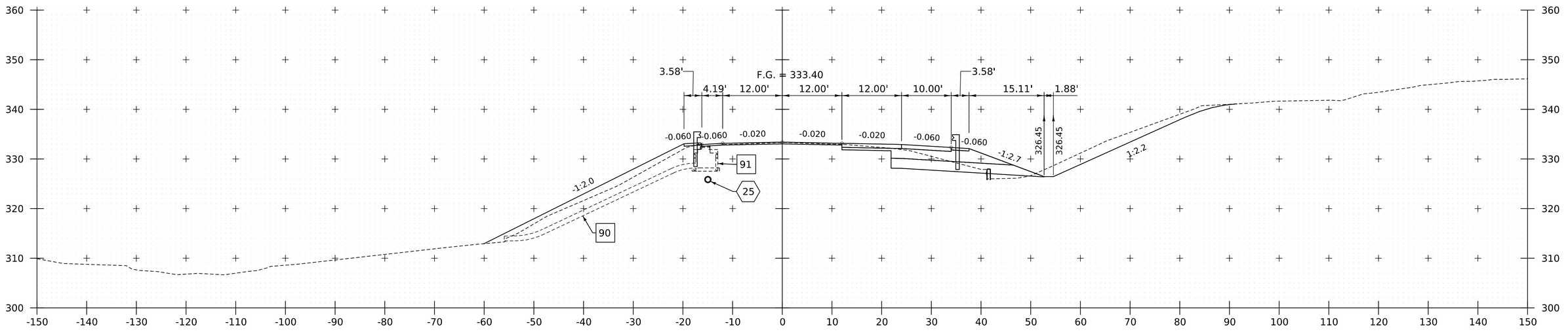
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 41	SHEET 516 OF 922



22215+90

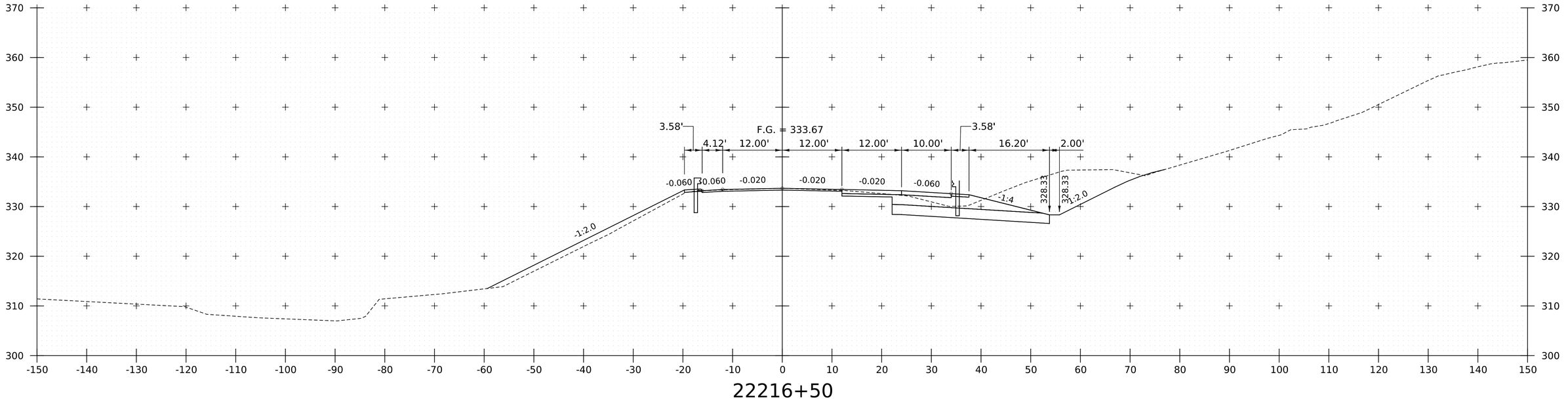


22215+88

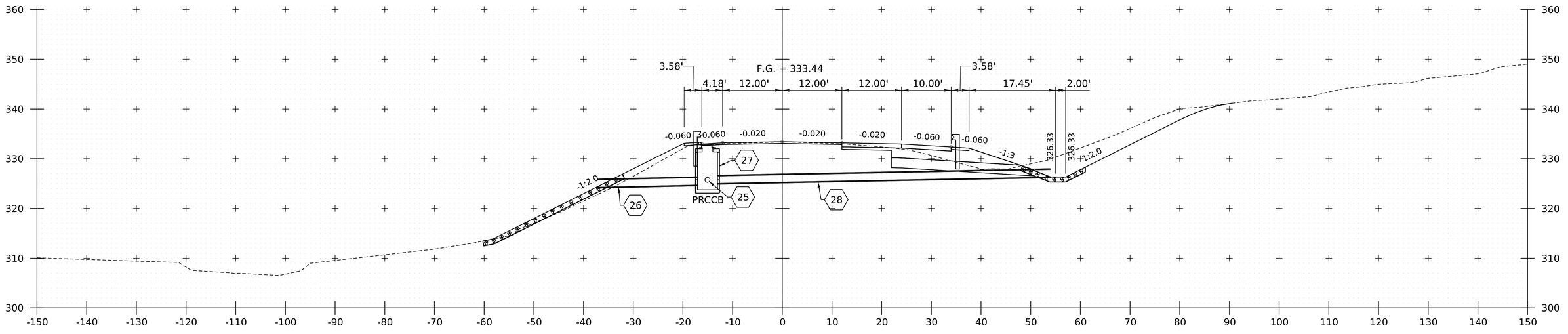
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 42	SHEET 517 OF 922



22216+50

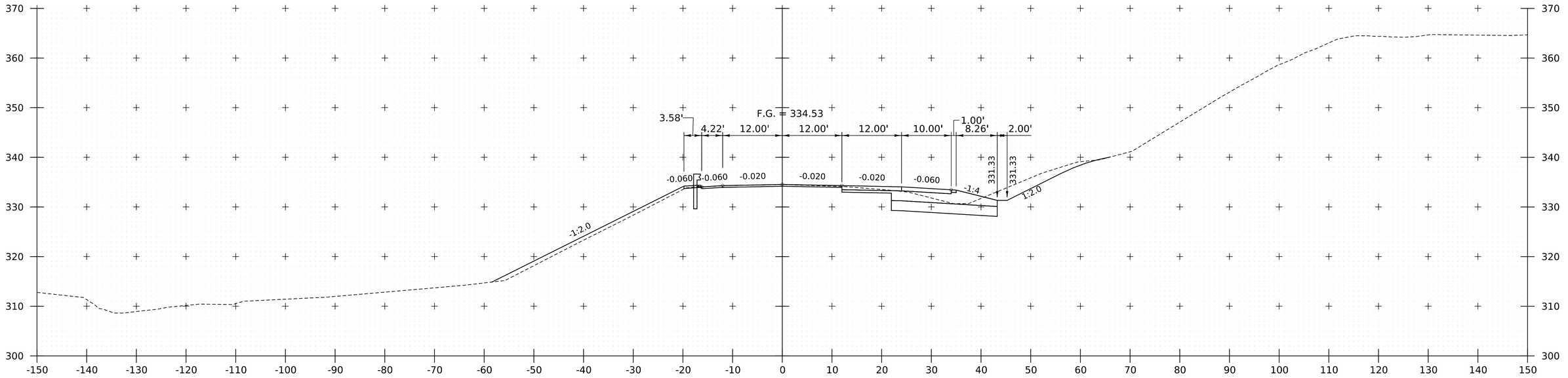


22216+00

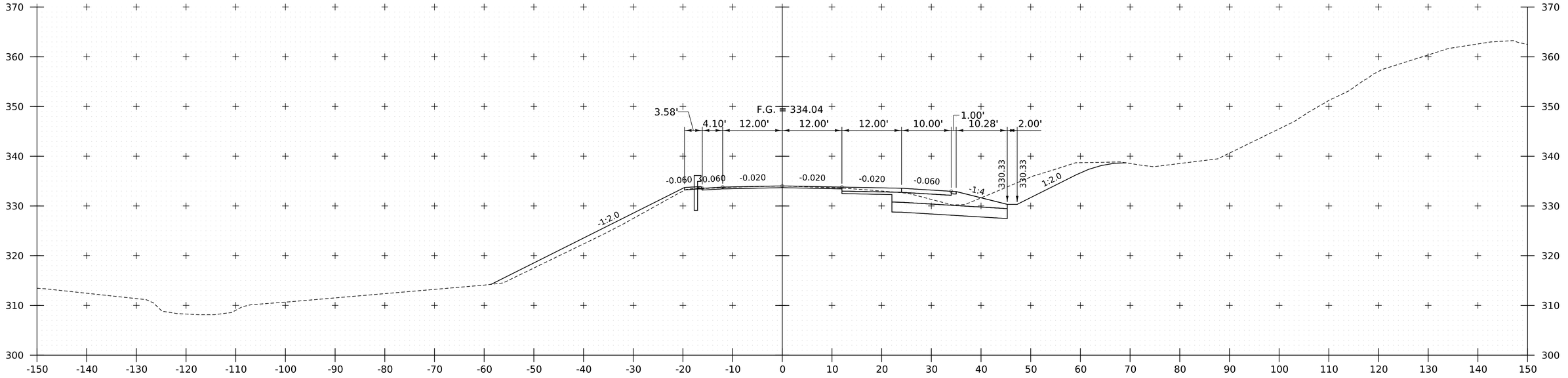
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 43	SHEET 518 OF 922



22217+50

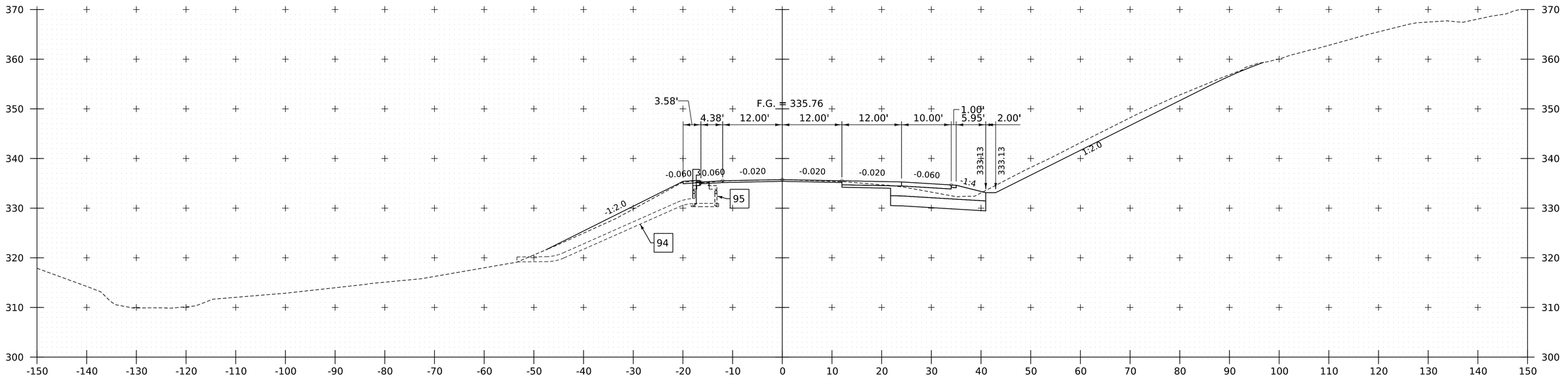


22217+00

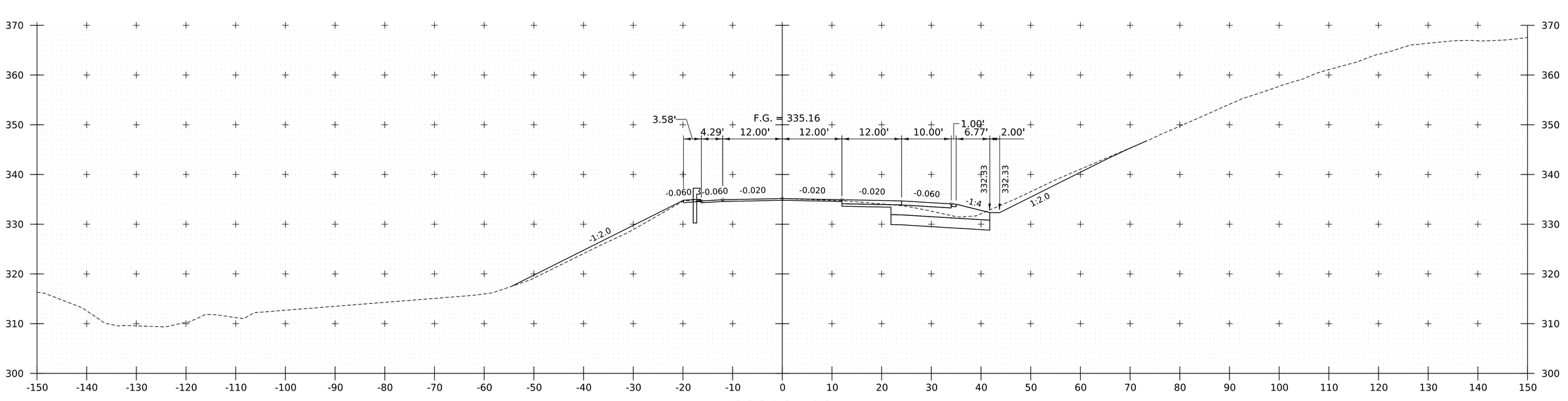
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 44	SHEET 519 OF 922



22218+40

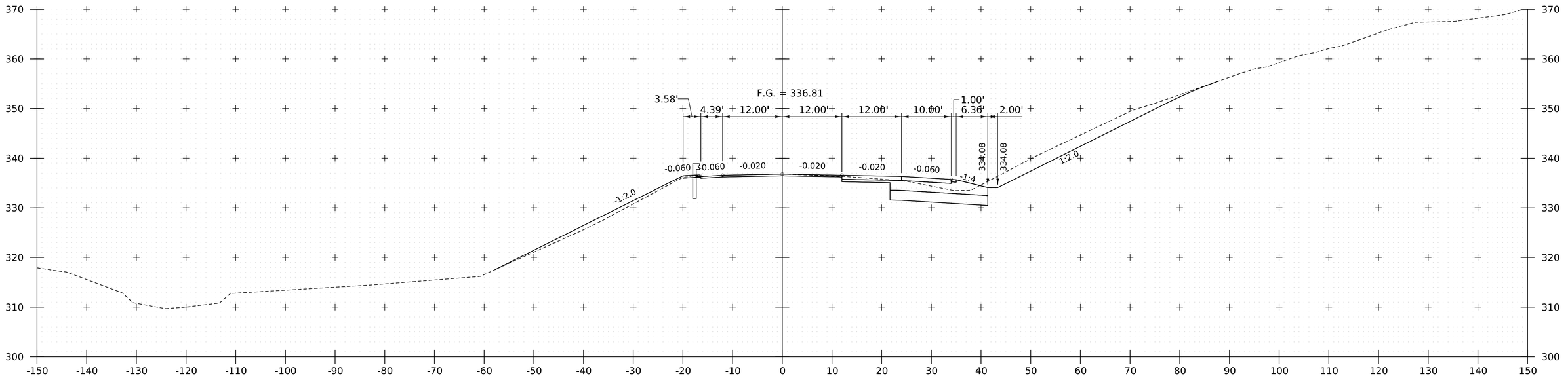


22218+00

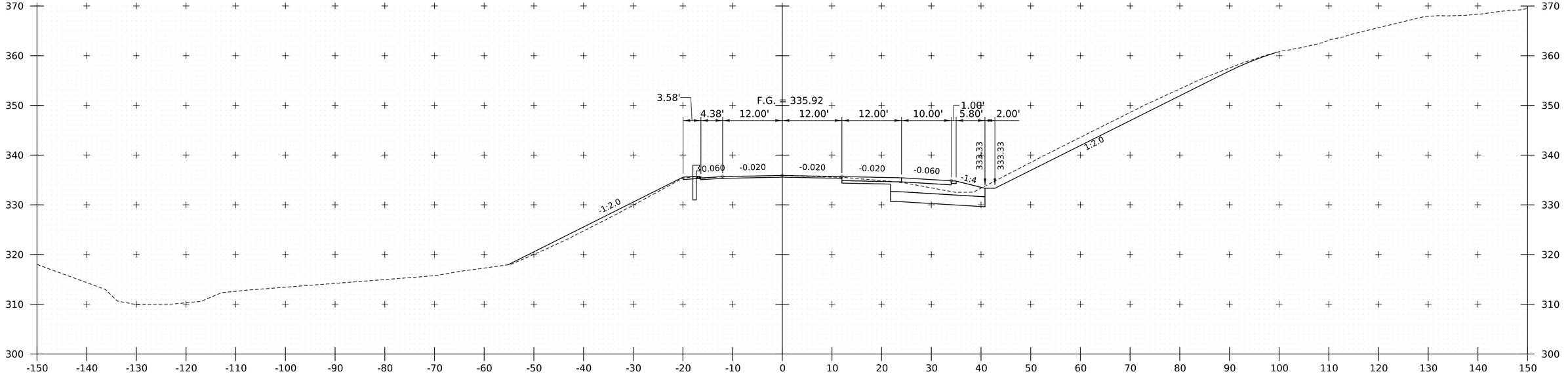
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 45	SHEET 520 OF 922



22219+00

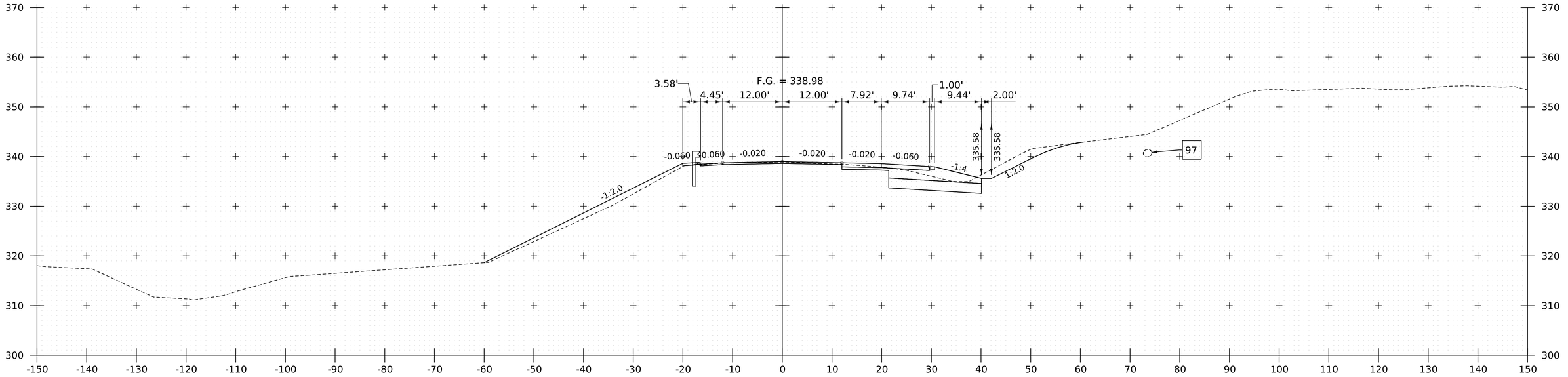


22218+50

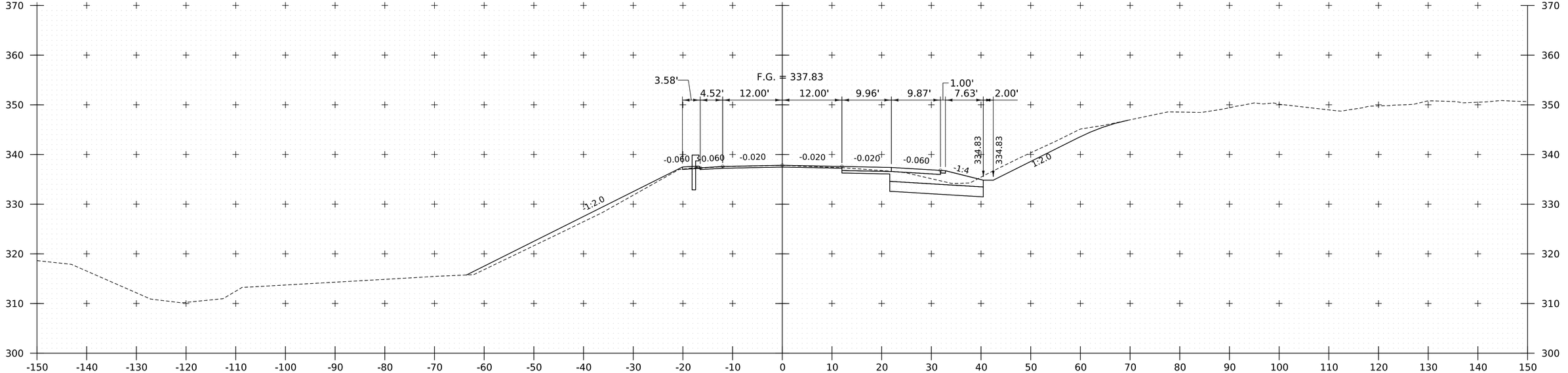
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 46	SHEET 521 OF 922



22220+00

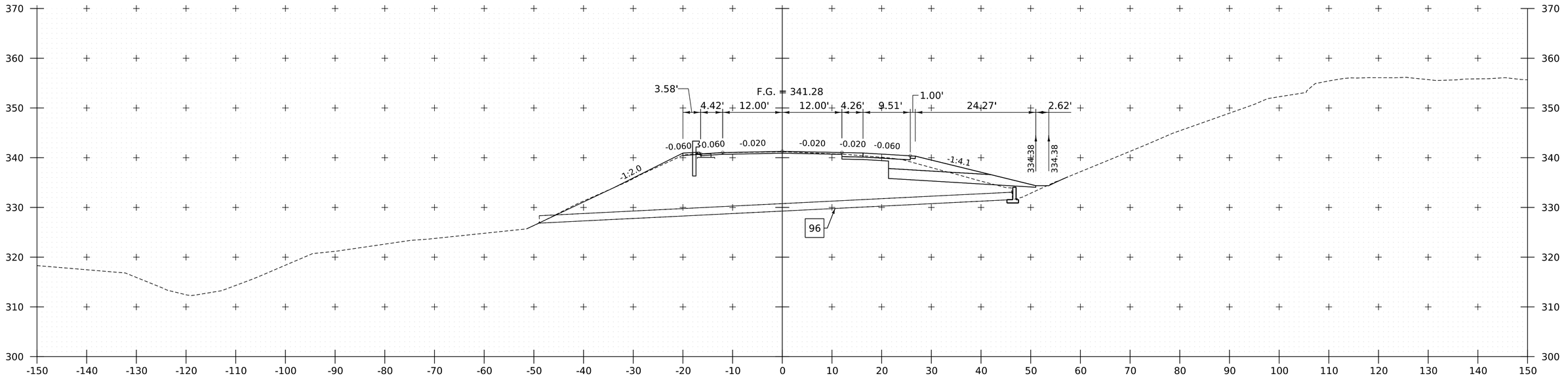


22219+50

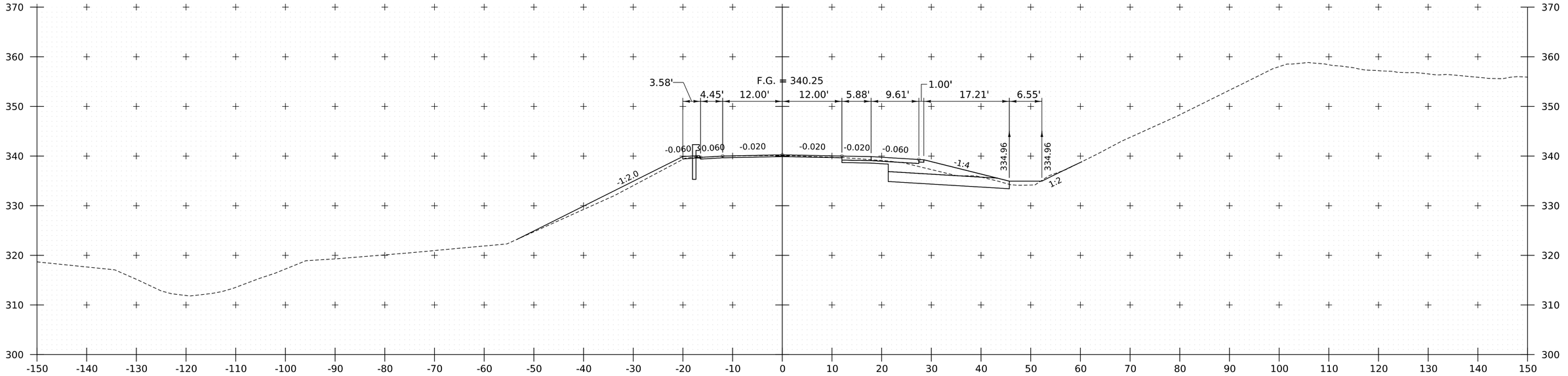
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB CROSS SECTIONS 47	SHEET 522 OF 922



22220+90

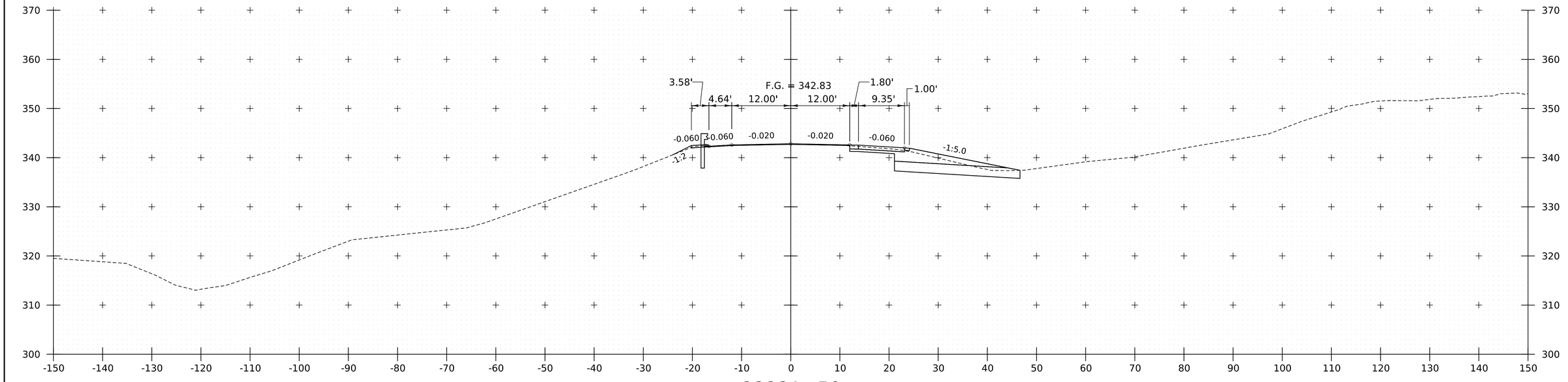


22220+50

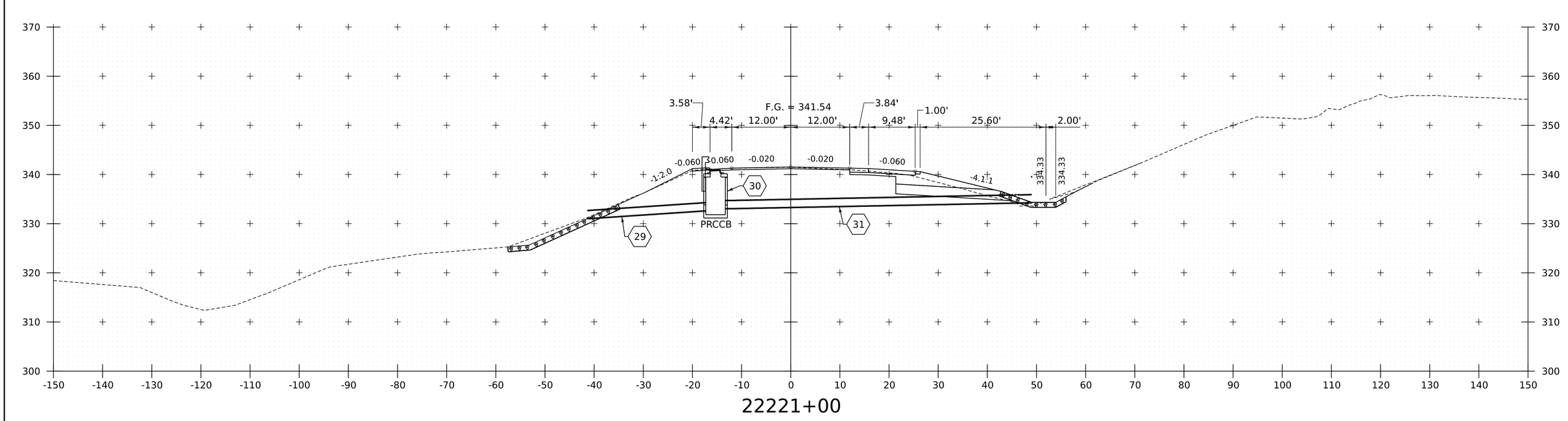
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 48		SHEET	523 OF 922



22221+50



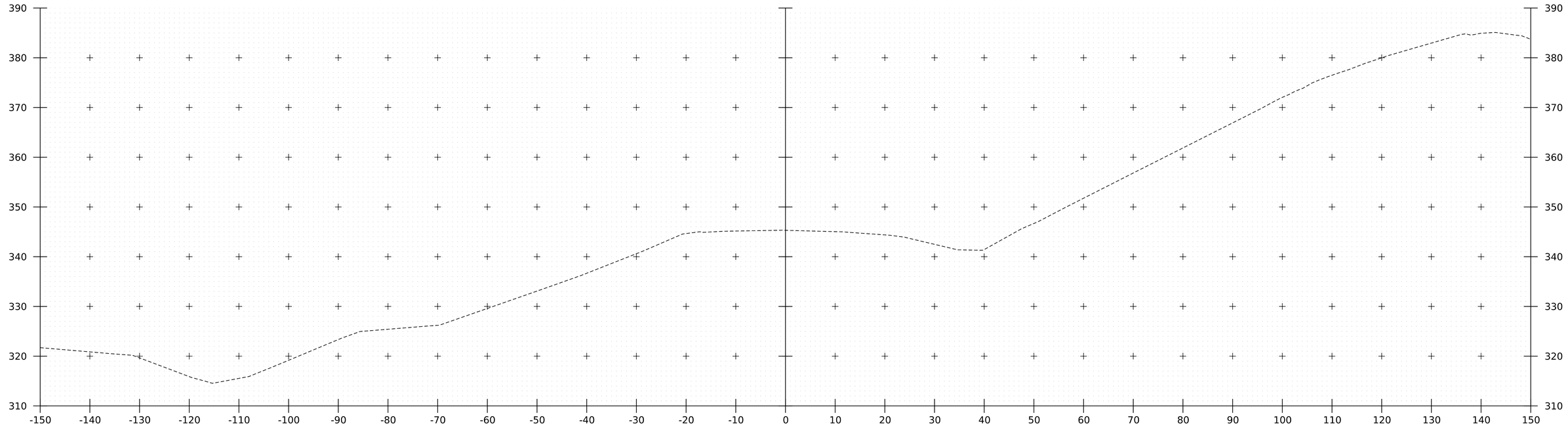
22221+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

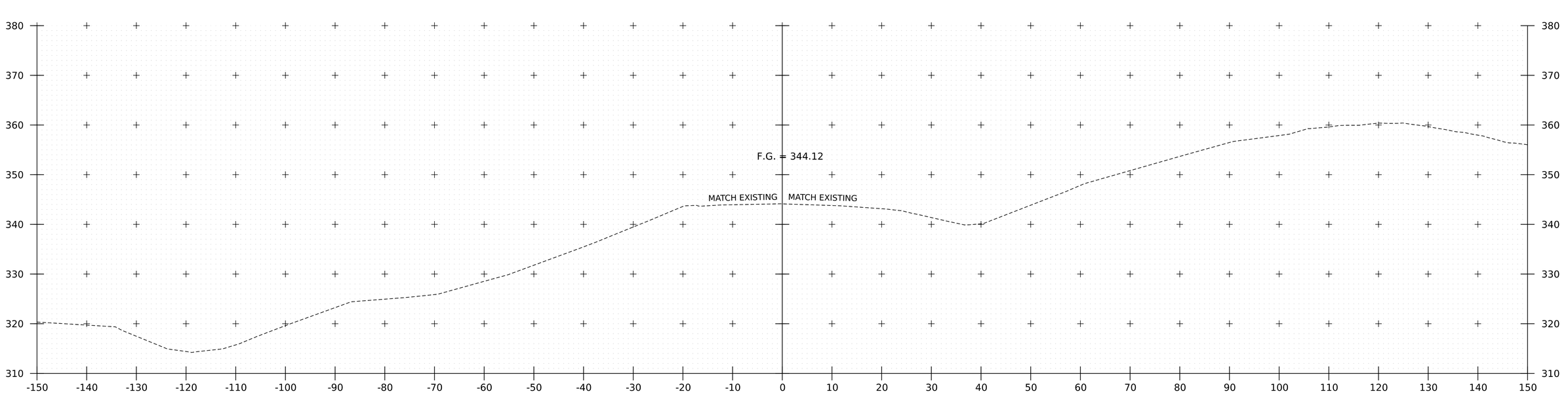
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 49		SHEET	524 OF 922



22222+50



22222+00

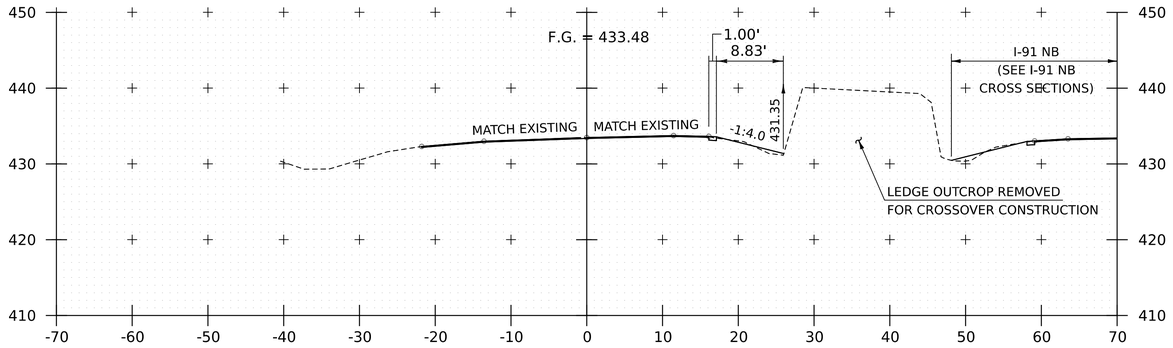
END I-91 NORTHBOUND APPROACH

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 NB.

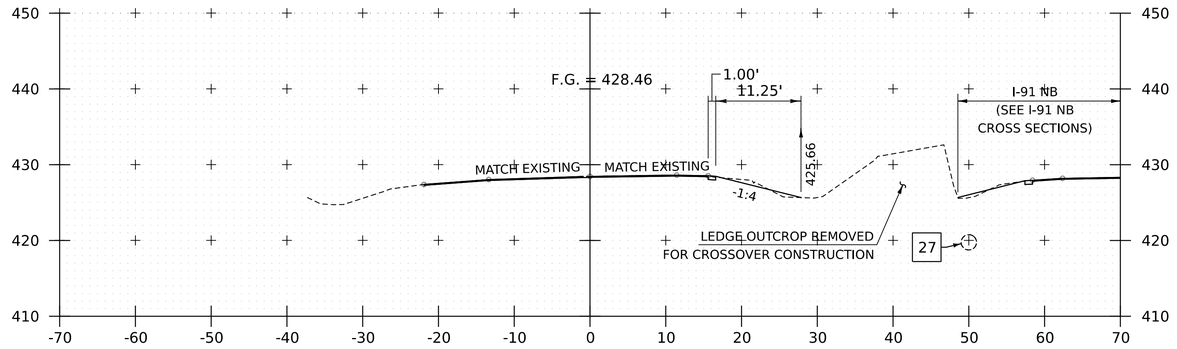
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

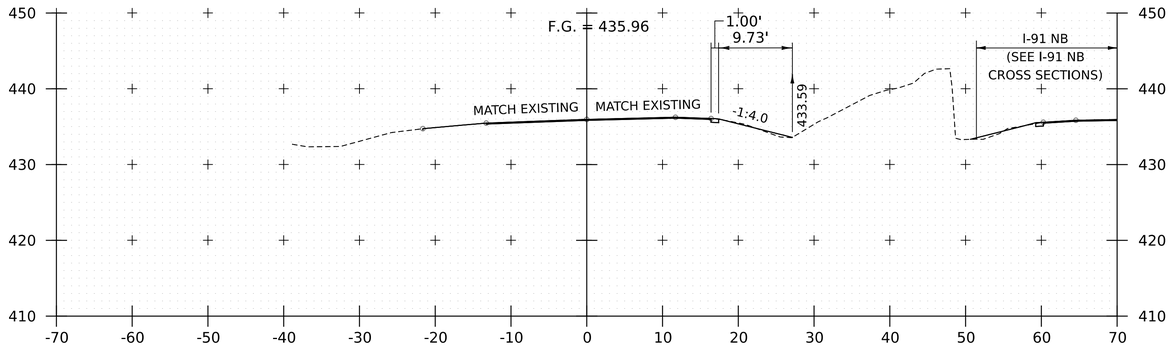
FILE NAME:	z12a574xs_I-91_NB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB CROSS SECTIONS 50		SHEET	525 OF 922



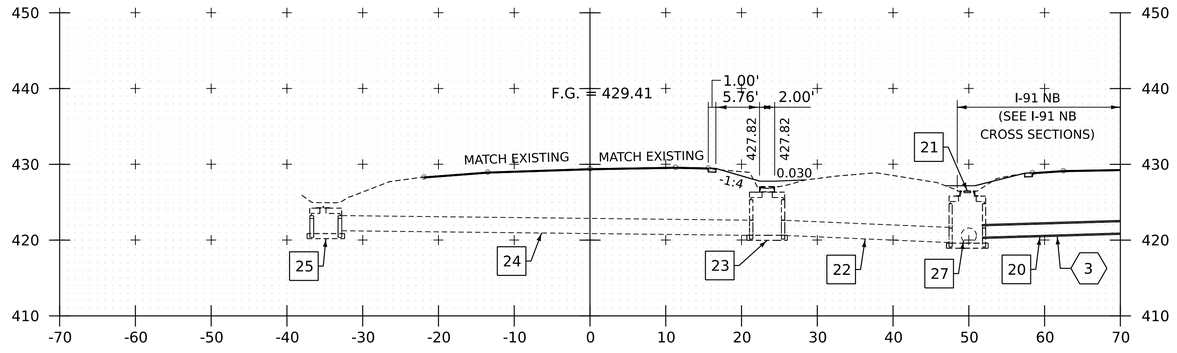
12152+50



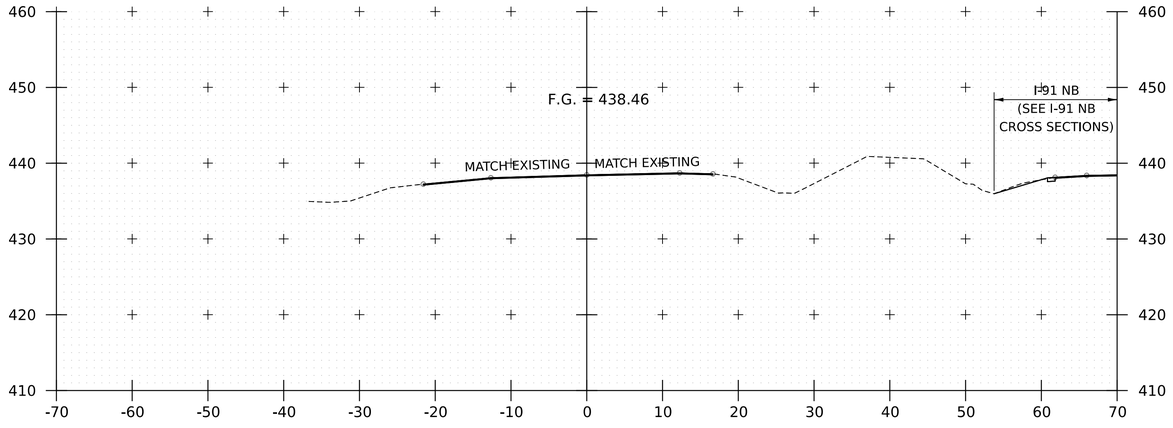
12153+50



12152+00



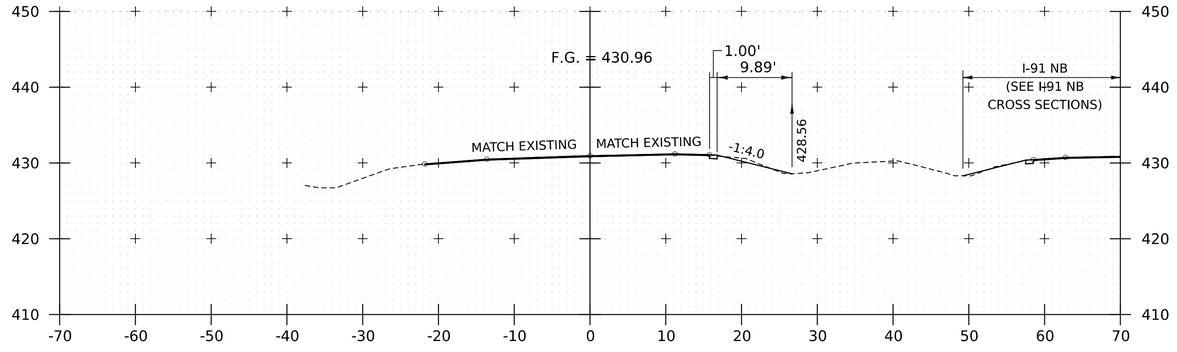
12153+31



12151+50

BEGIN I-91 SOUTHBOUND APPROACH

12146+50

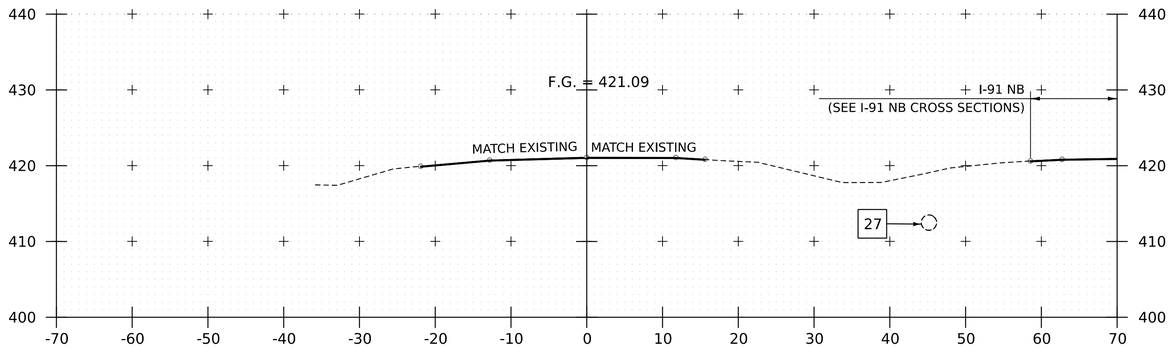


12153+00

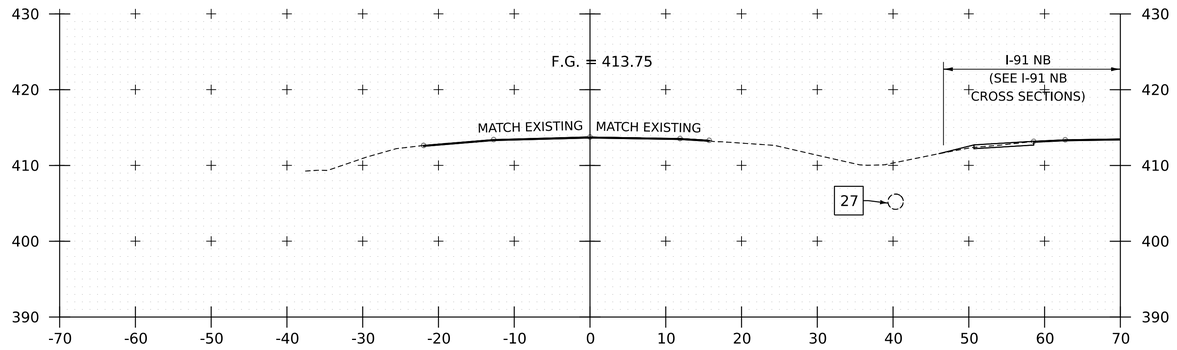
NOTE:
1. REFER TO MATERIAL TRANSITION DETAILS FOR MILL AND FILL AREA BETWEEN STA. 12146+50 AND 12151+50.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

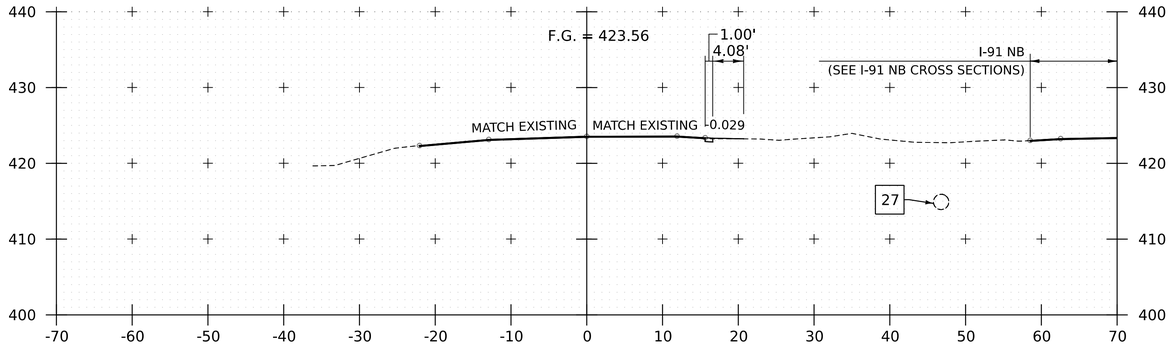
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 1	SHEET 526 OF 922



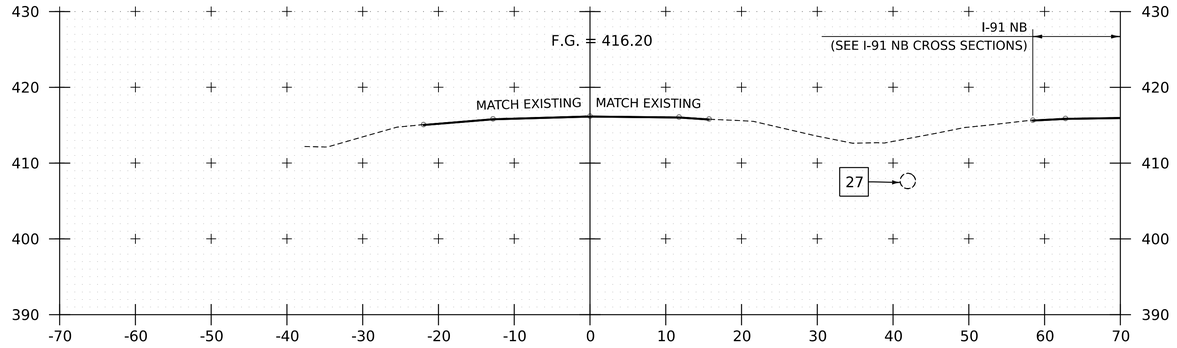
12155+00



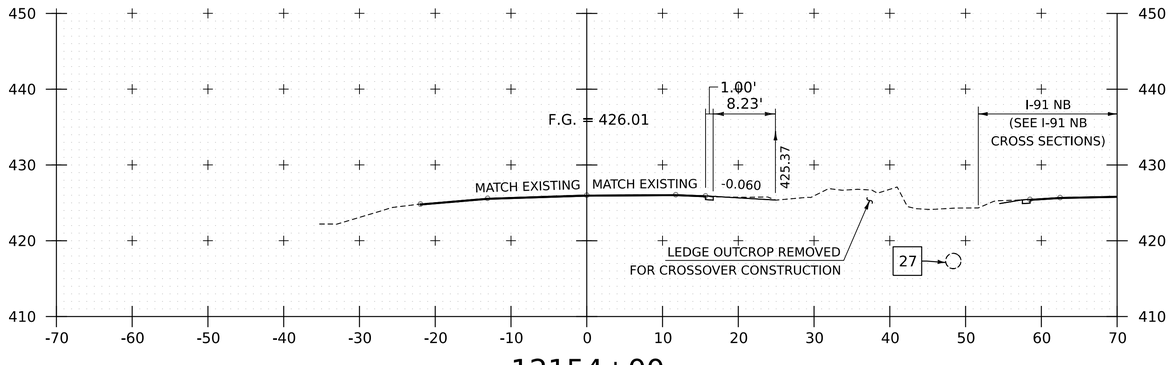
12156+50



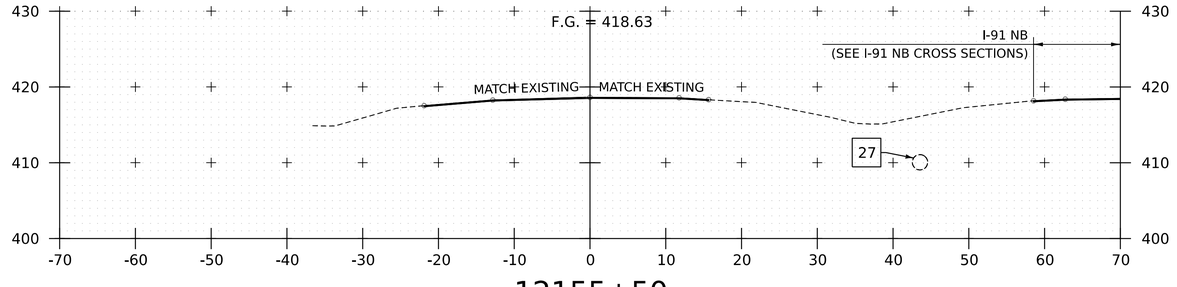
12154+50



12156+00



12154+00

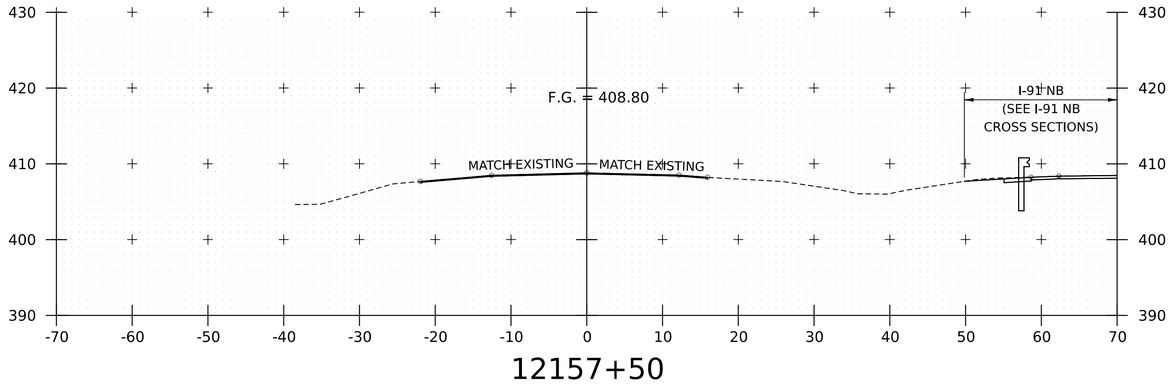


12155+50

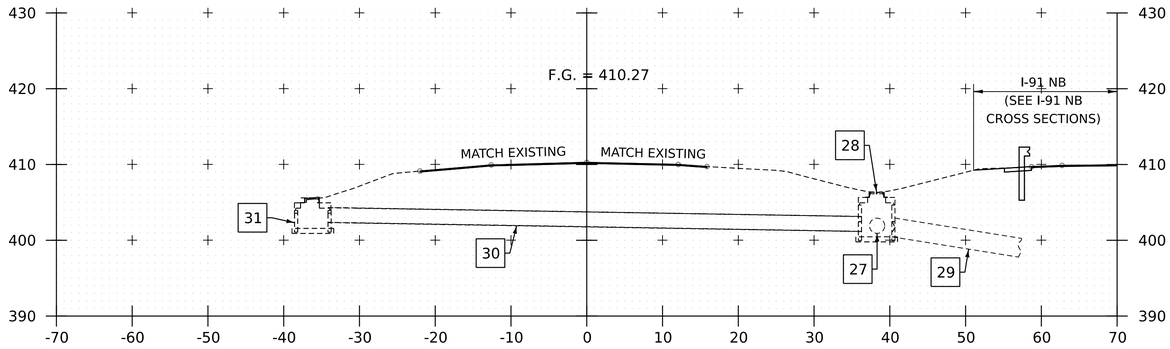
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 2	SHEET 527 OF 922

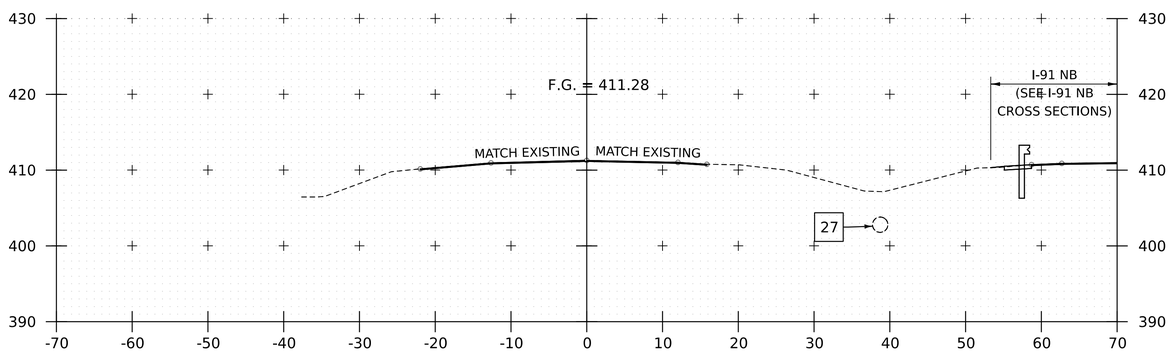
HNTB



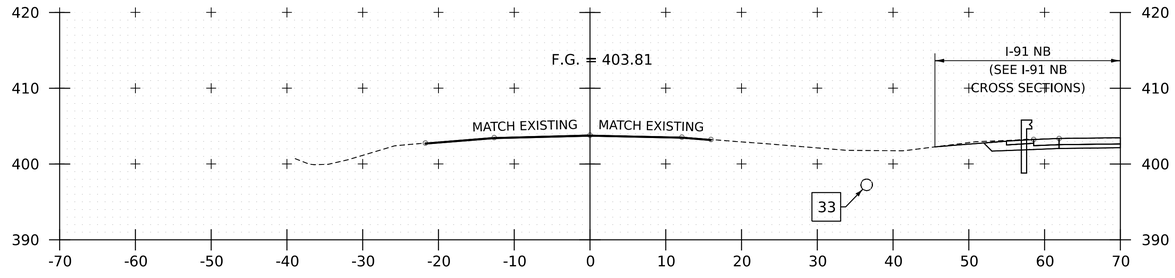
12157+50



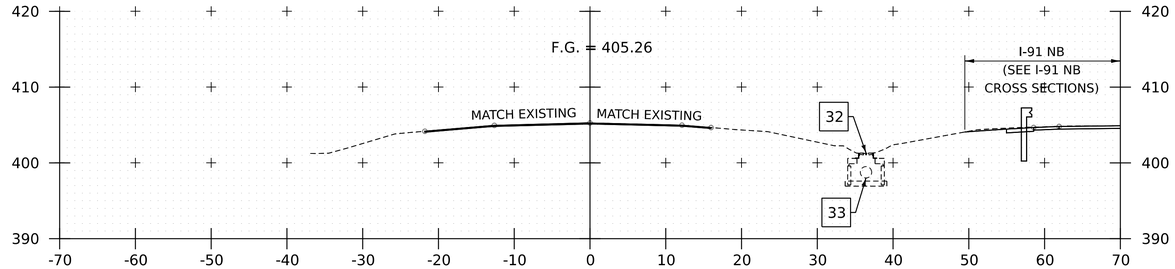
12157+20



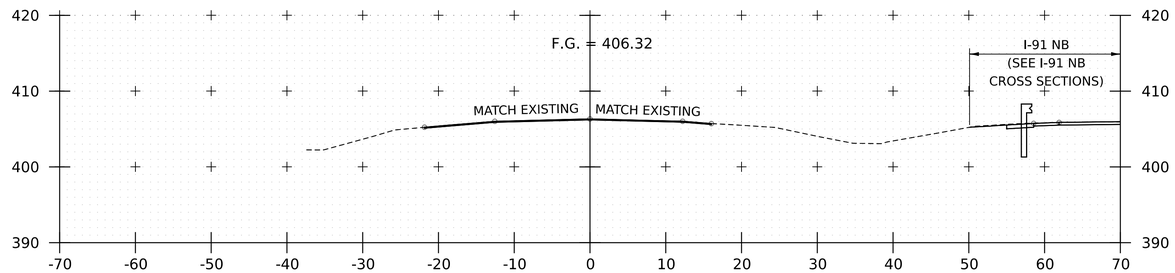
12157+00



12158+50



12158+21



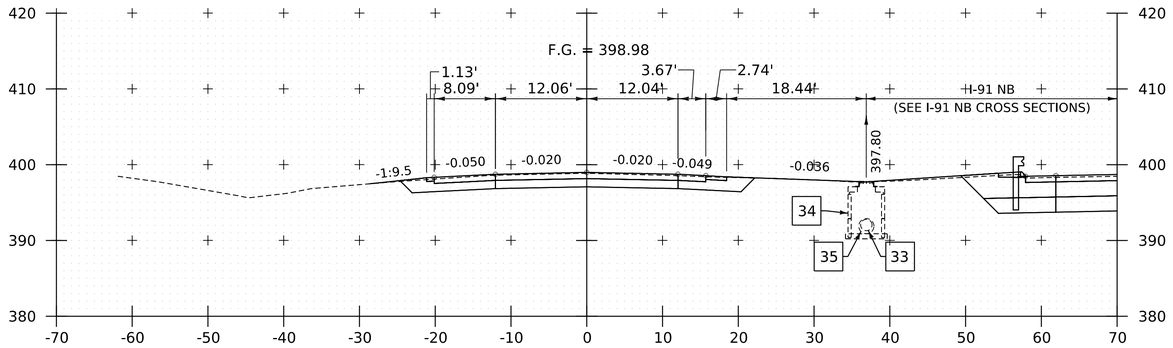
12158+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

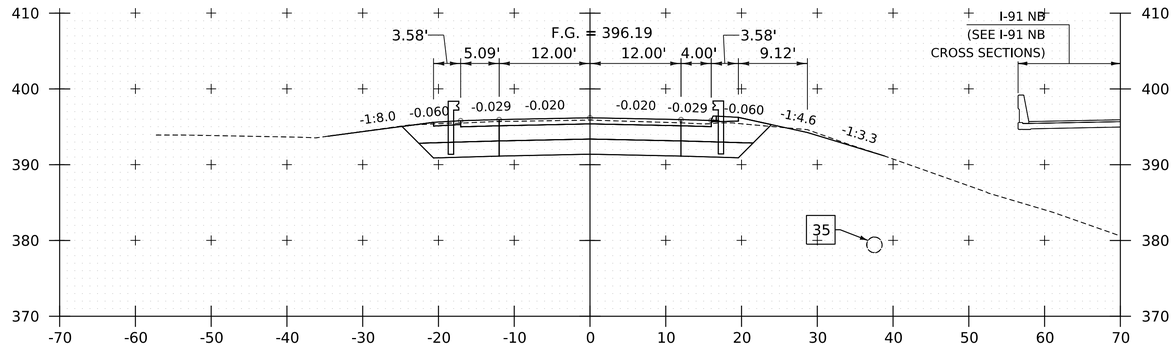
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

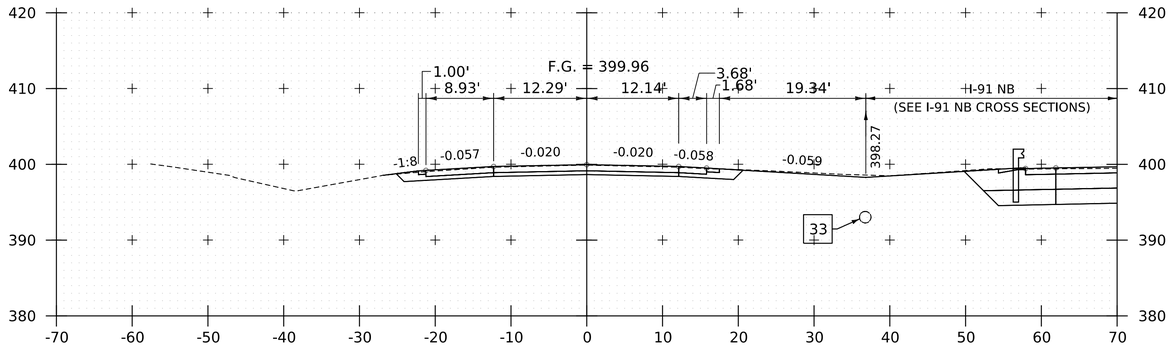
FILE NAME:	z12a574xs_I-91_SB_25.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 SB CROSS SECTIONS 3		SHEET	528 OF 922



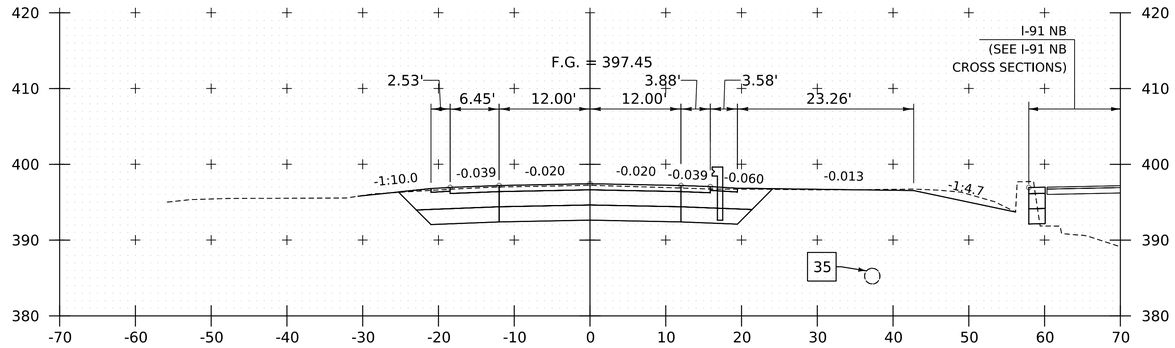
12159+44



12160+00

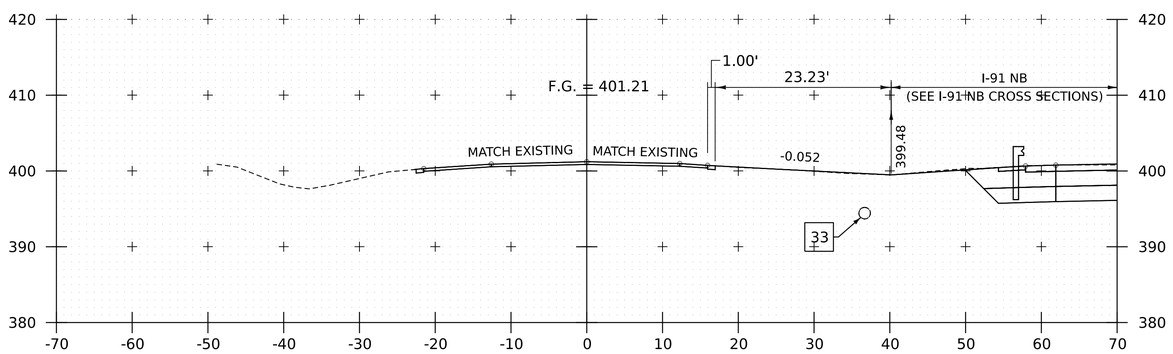


12159+25

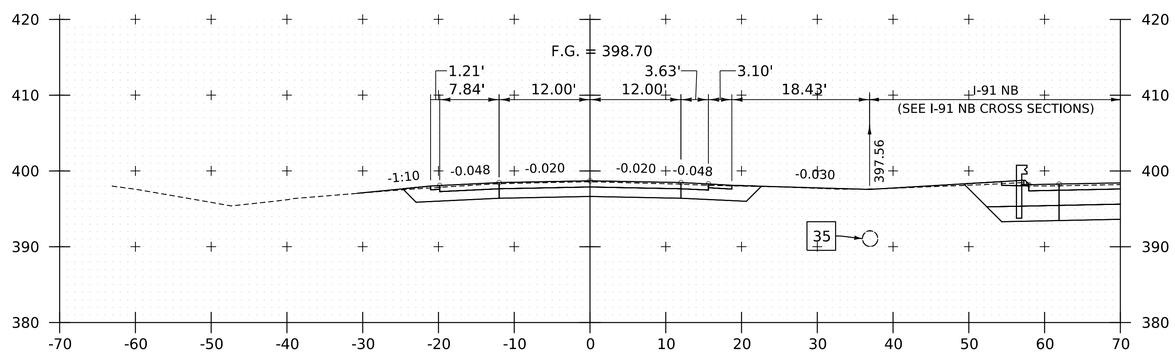


12159+75

BEGIN I-91 SOUTHBOUND PROJECT



12159+00

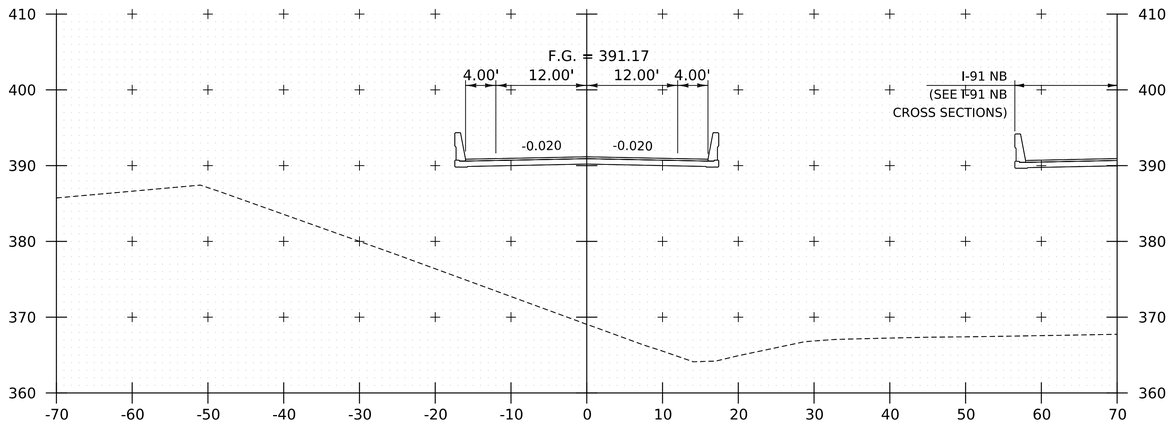


12159+50

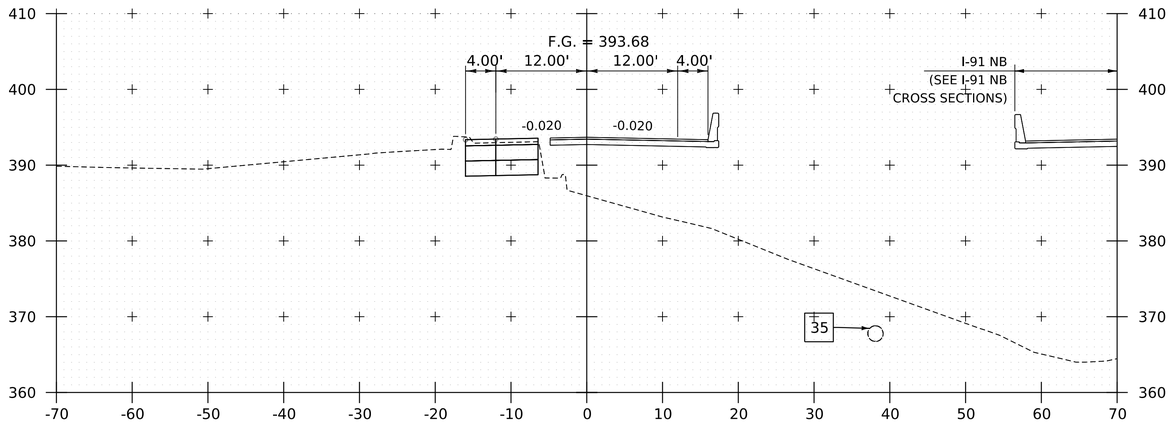
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 4	SHEET 529 OF 922



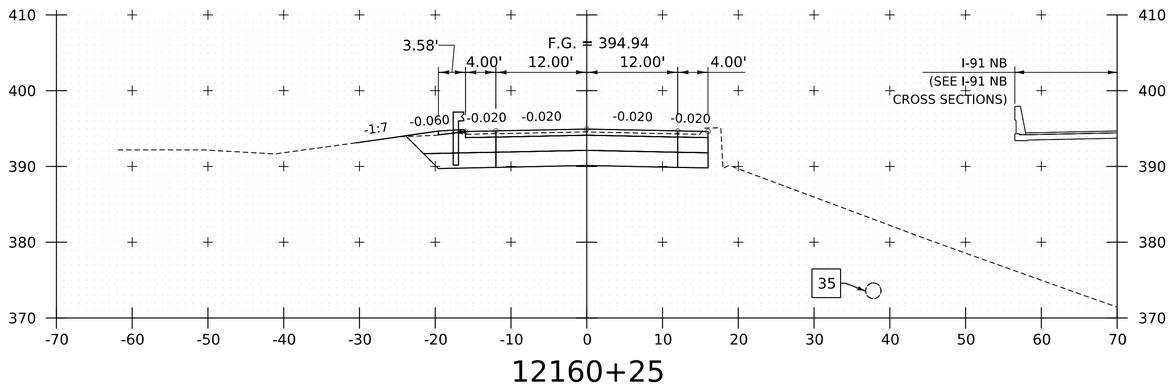
12161+00



12160+50

BEGIN BRIDGE 25S

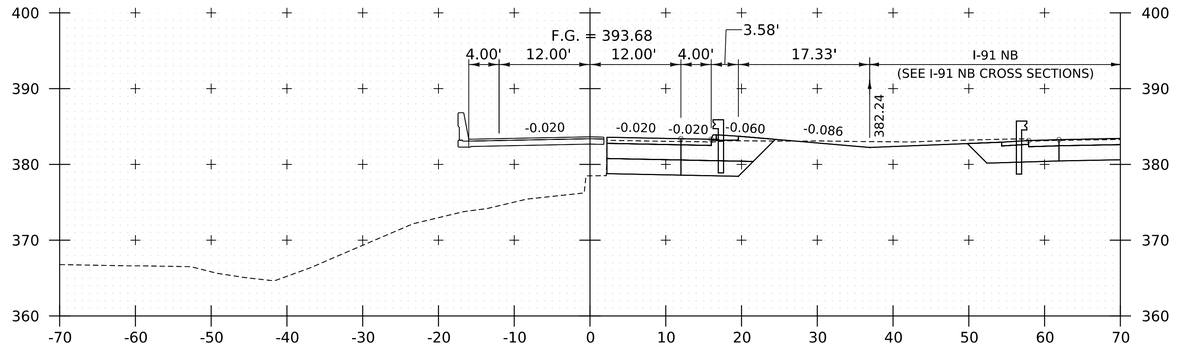
12160+45.06



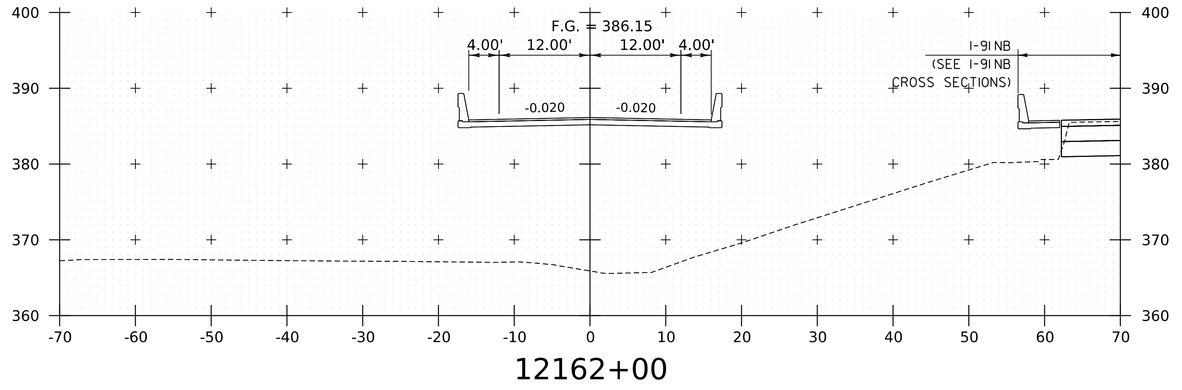
12160+25

END BRIDGE 25S

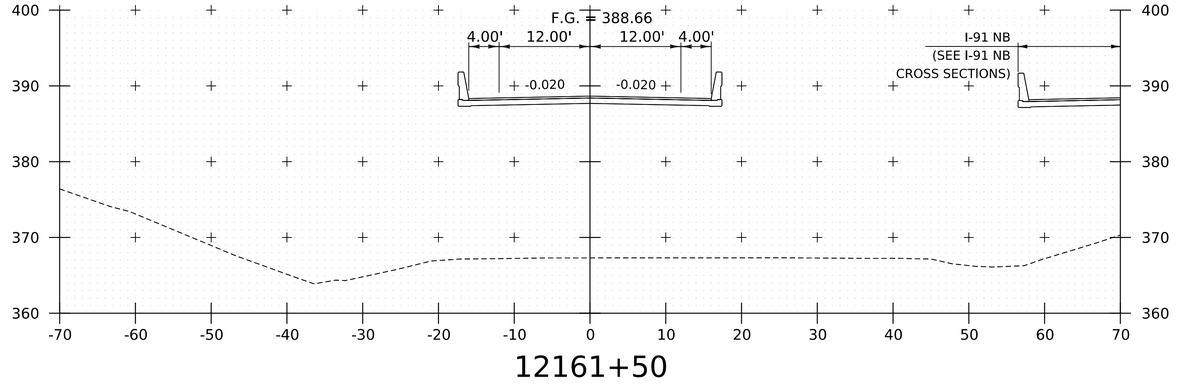
12162+51.45



12162+50



12162+00

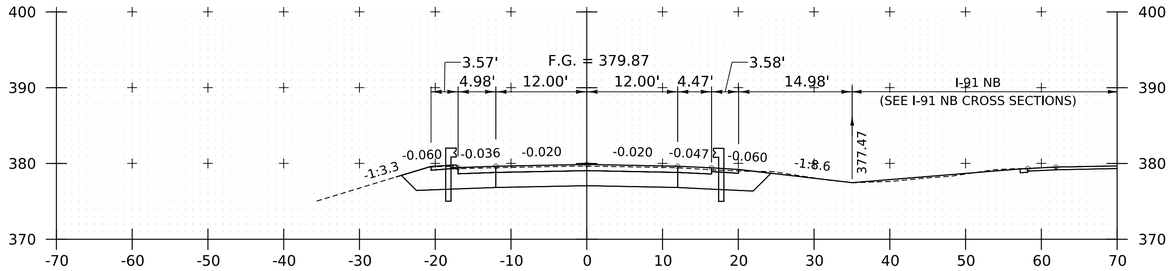


12161+50

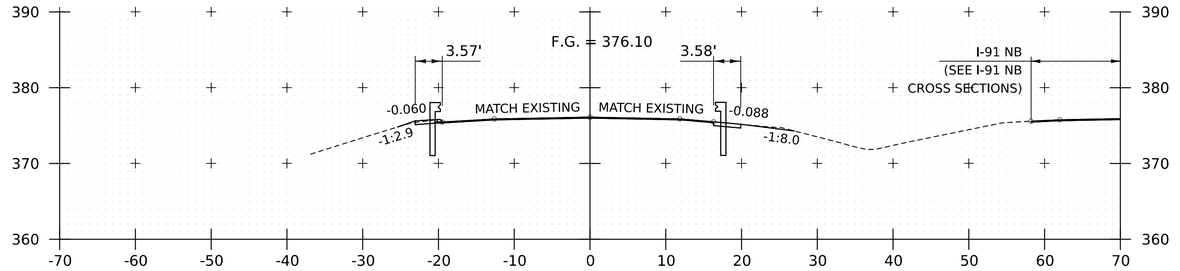
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 5	SHEET 530 OF 922

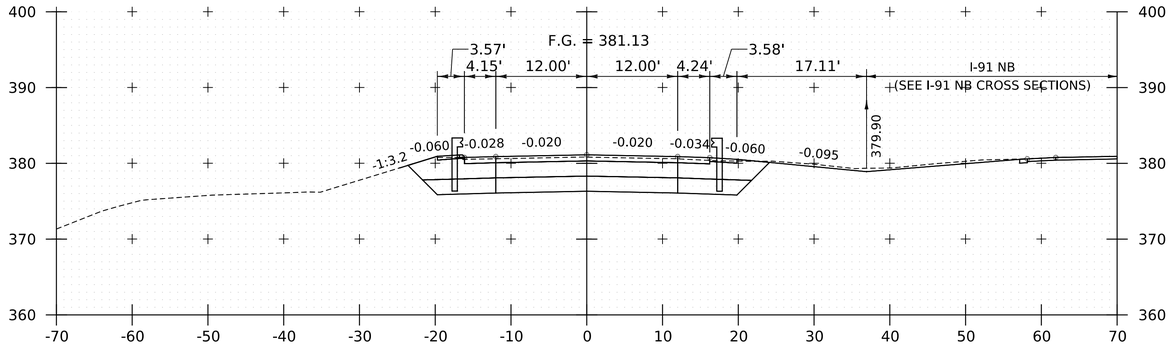


12163+25

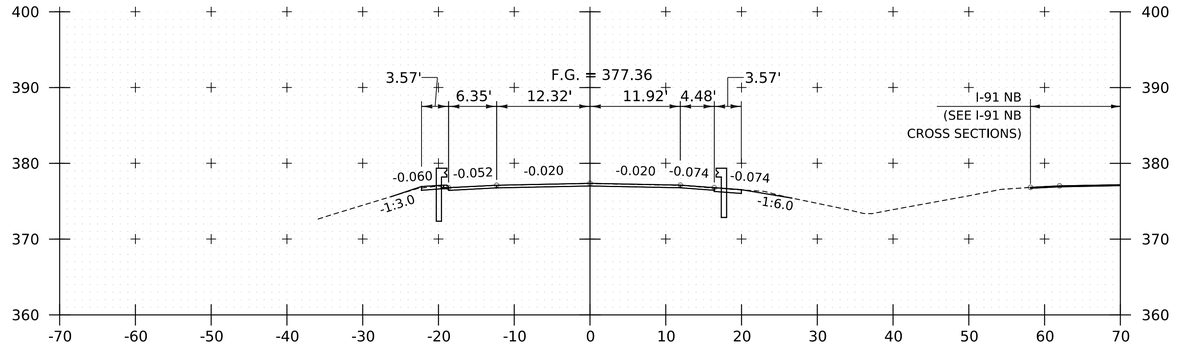


12164+00

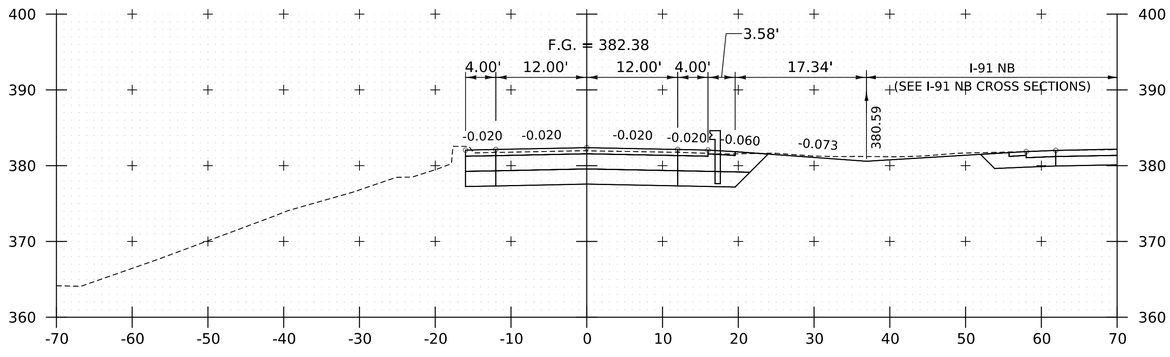
STOP I-91 SOUTHBOUND PROJECT



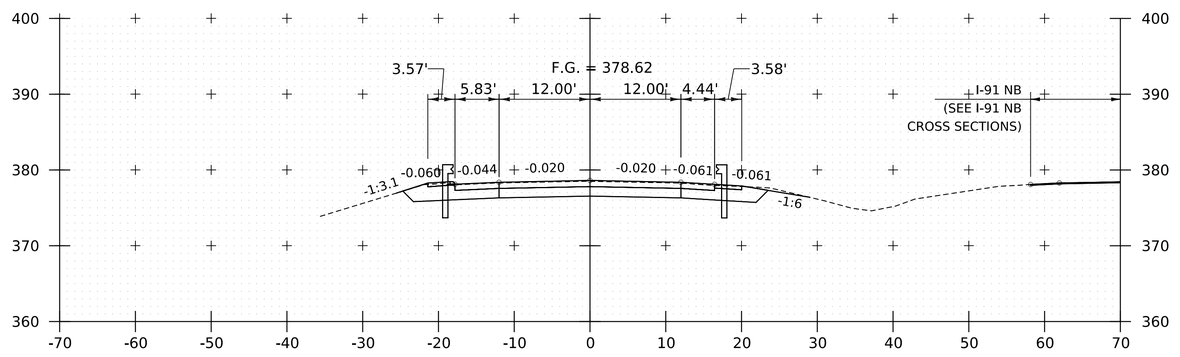
12163+00



12163+75



12162+75

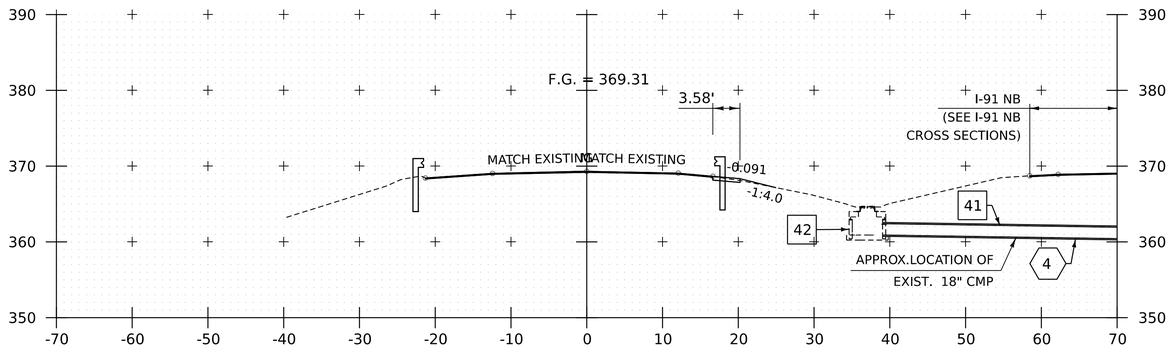


12163+50

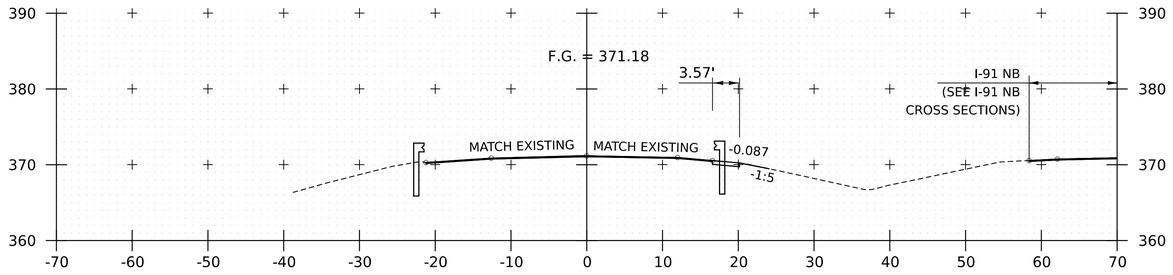
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

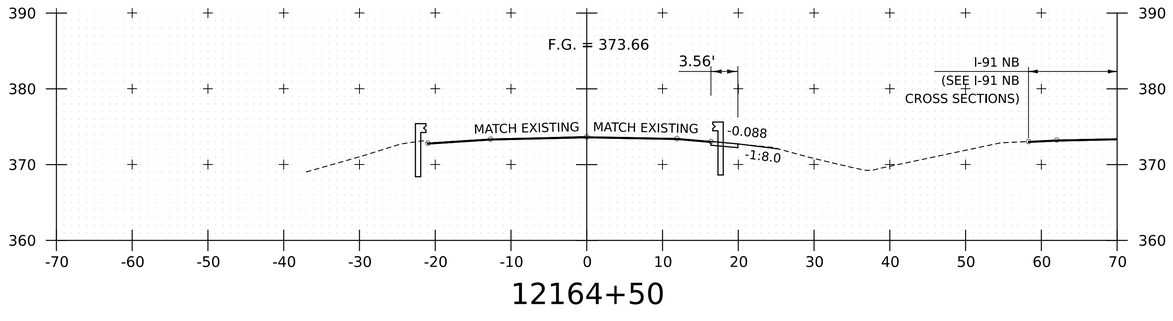
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 6	SHEET 531 OF 922



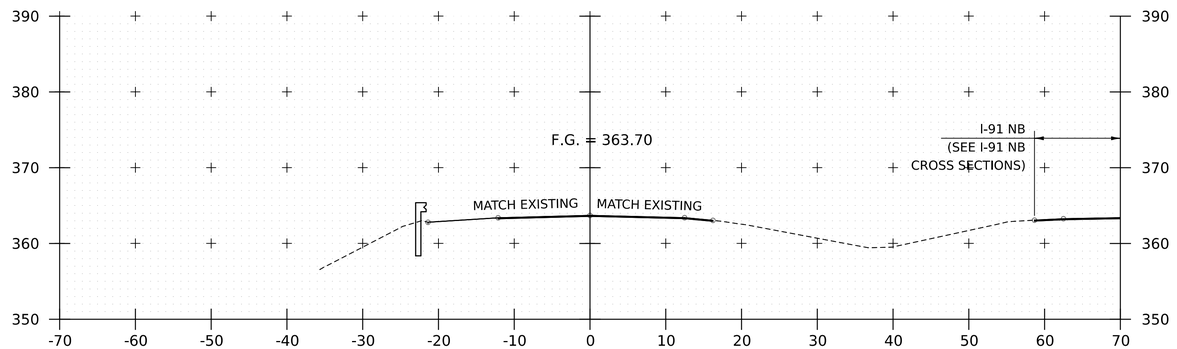
12165+37



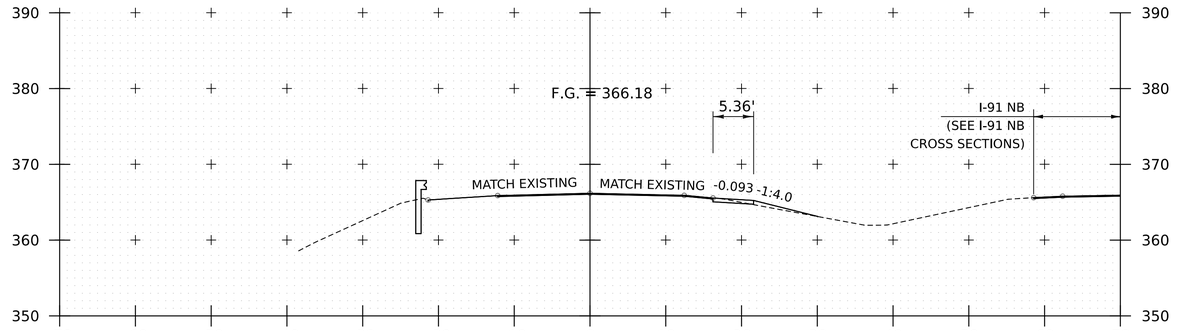
12165+00



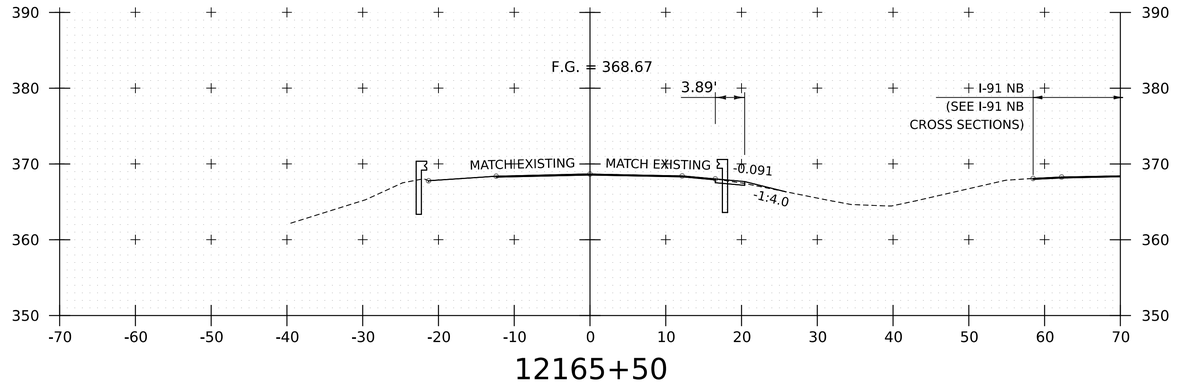
12164+50



12166+50



12166+00

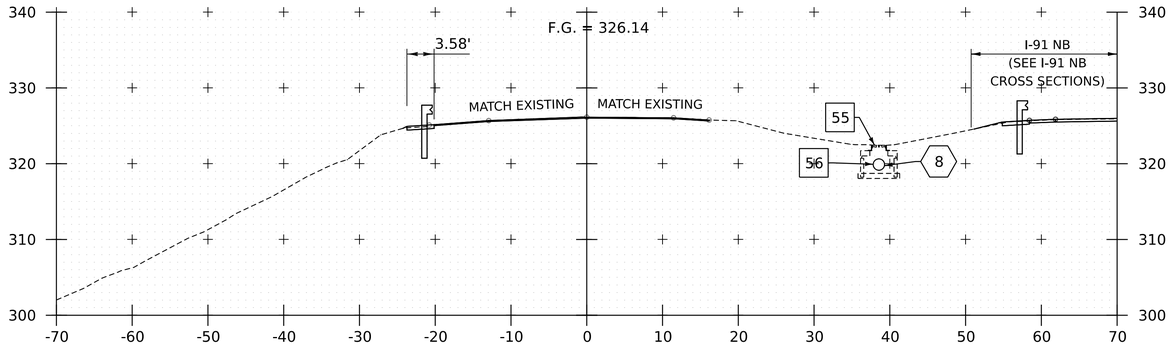


12165+50

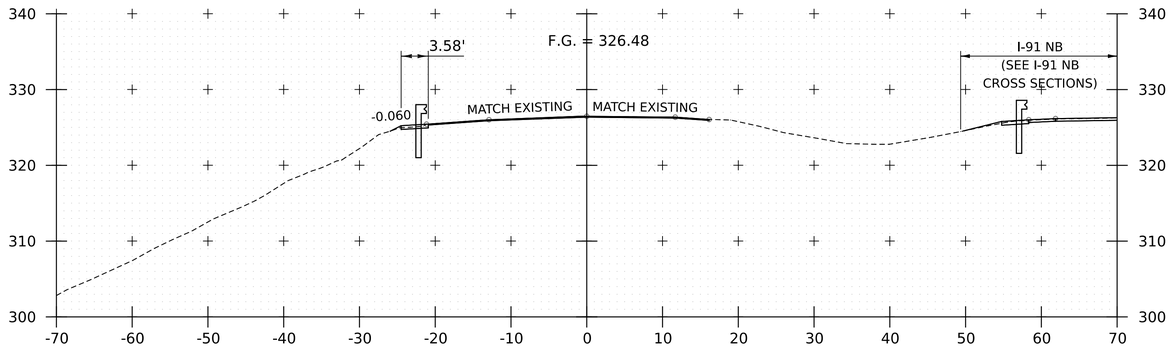
NOTE:
1. REFER TO MATERIAL TRANSITION DETAILS FOR MILL AND FILL AREA BETWEEN STA. 12166+50 AND 12175+00.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

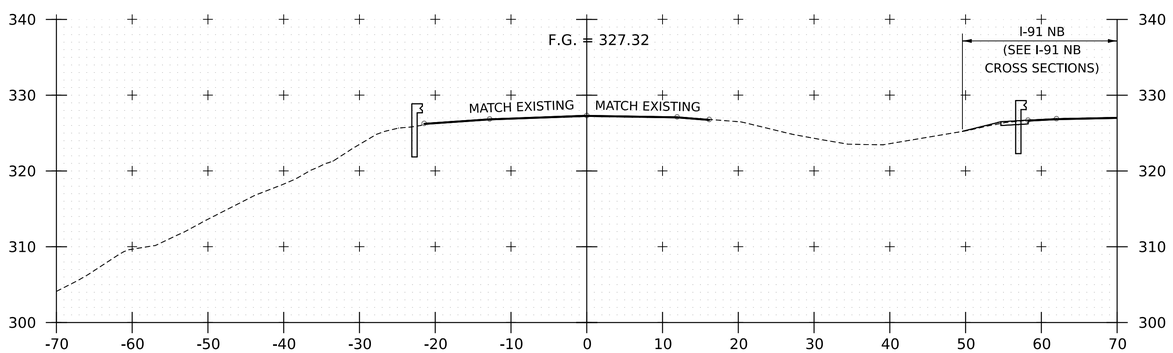
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_25.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 7	SHEET 532 OF 922



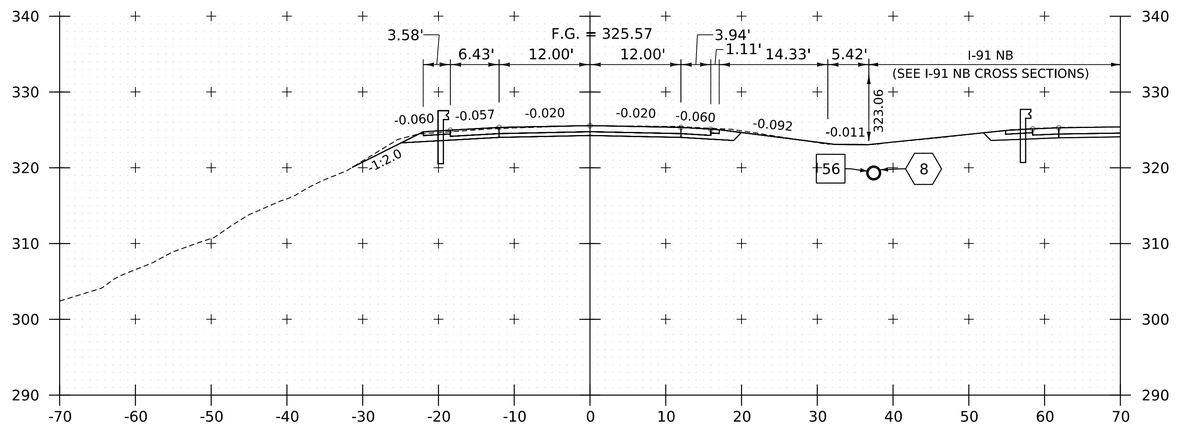
12175+73



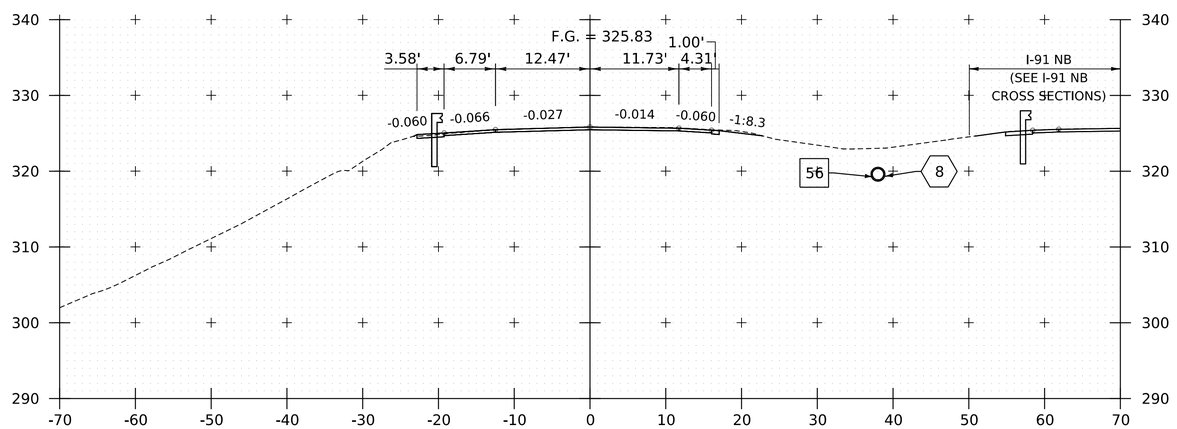
12175+50



12175+00



12176+25



12176+00

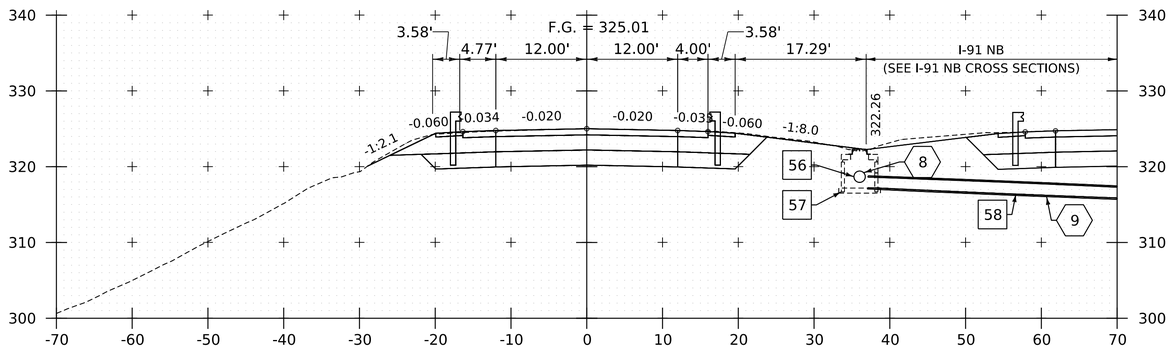
NOTE:
1. REFER TO MATERIAL TRANSITION DETAILS FOR MILL AND FILL AREA BETWEEN STA. 12166+50 AND 12175+00.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

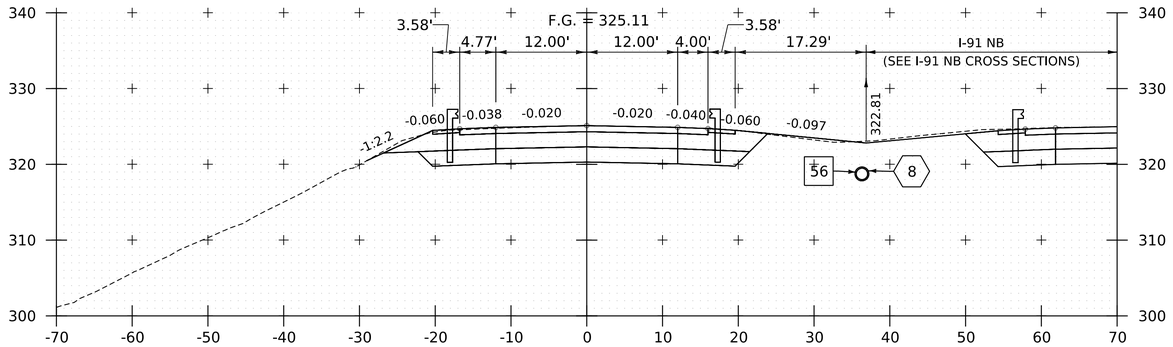
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_I-91_SB_26.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
I-91 SB CROSS SECTIONS 8

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 533 OF 922

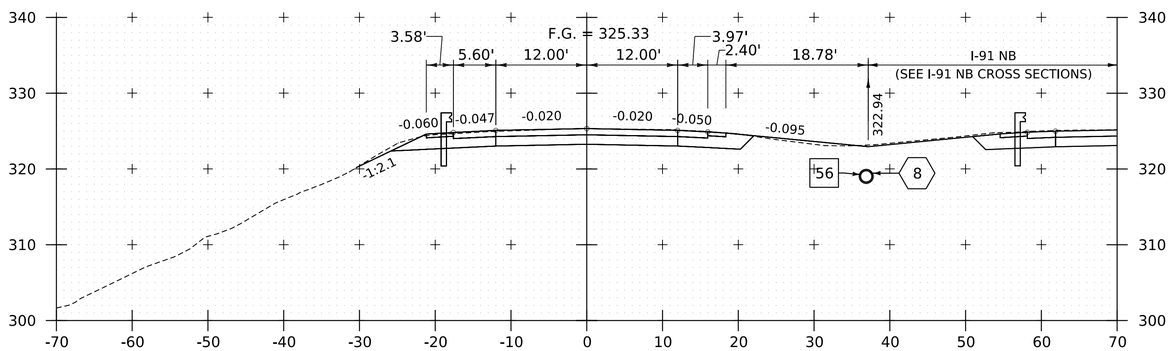


12176+88

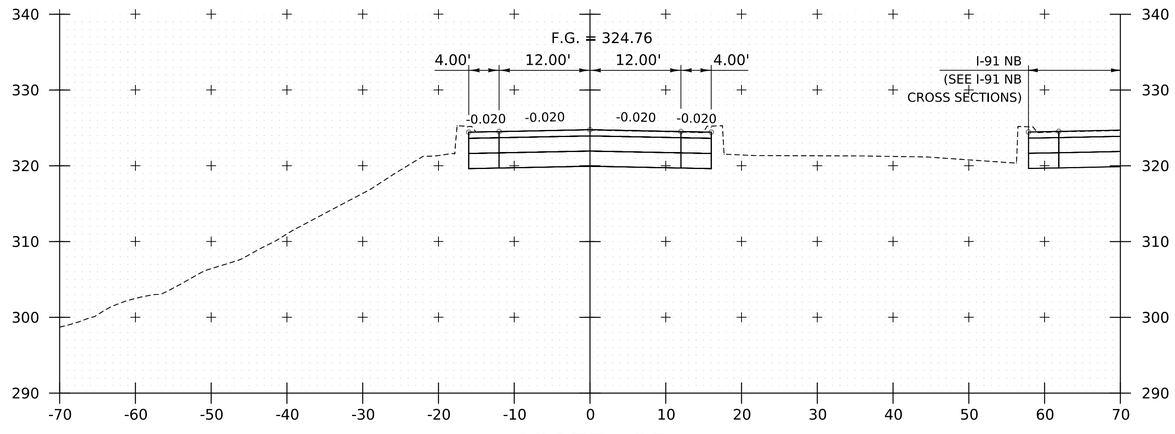


12176+75

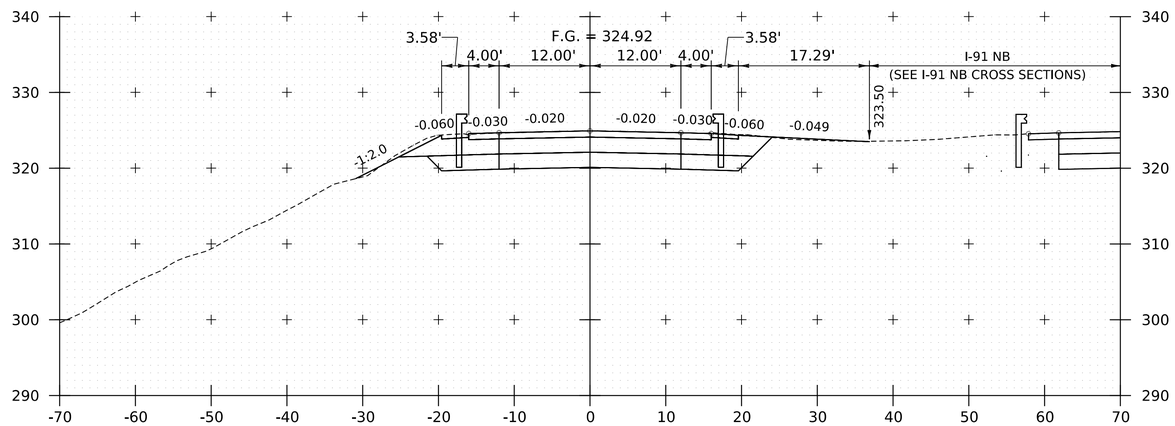
RESUME I-91 SOUTHBOUND PROJECT



12176+50



12177+25

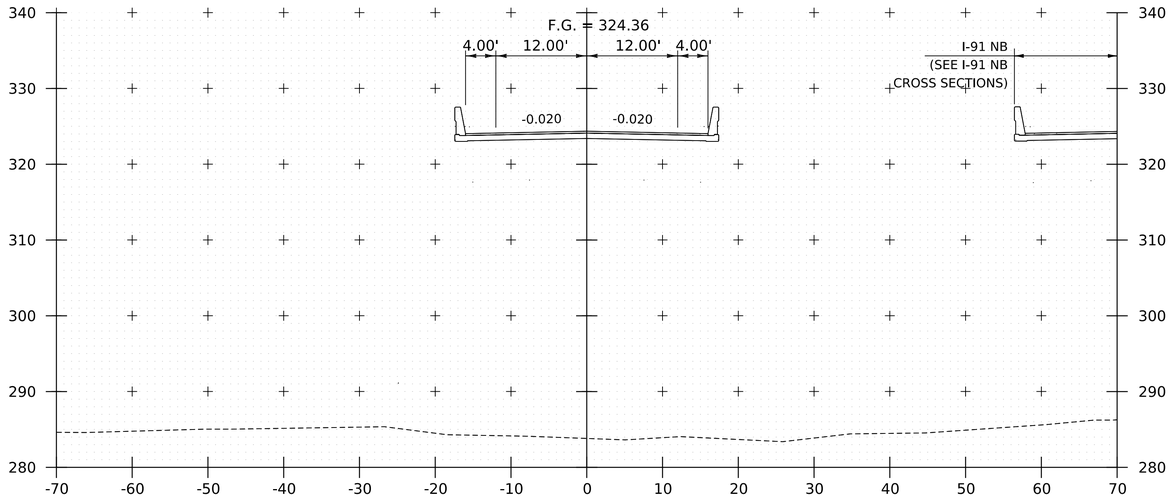


12177+00

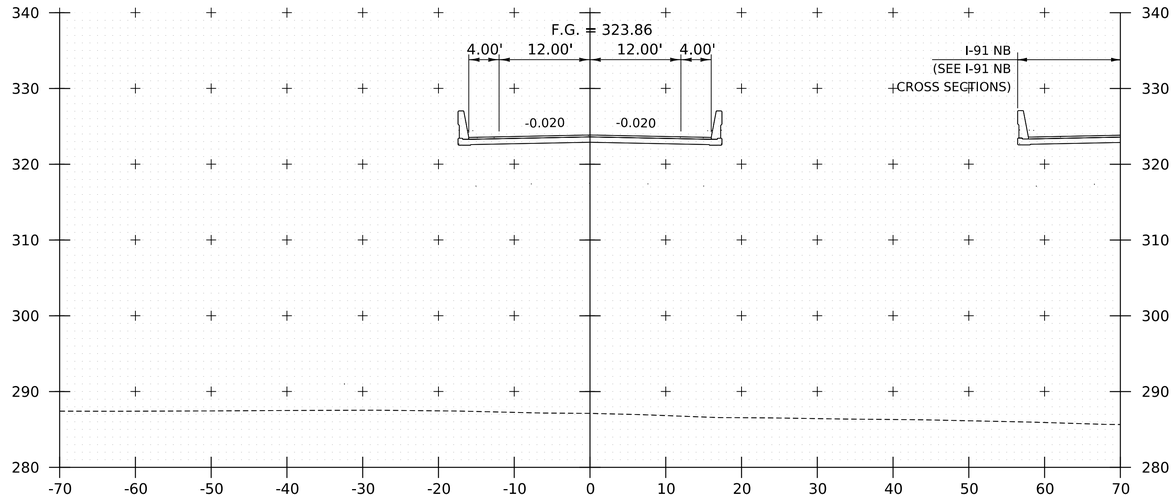
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

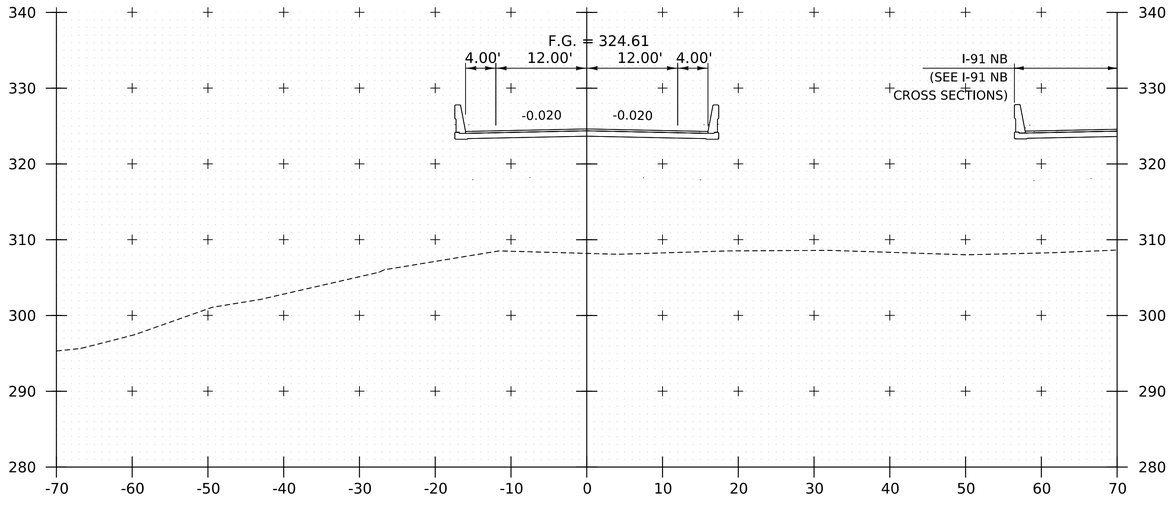
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_SB_26.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 SB CROSS SECTIONS 9		SHEET	534 OF 922



12178+00



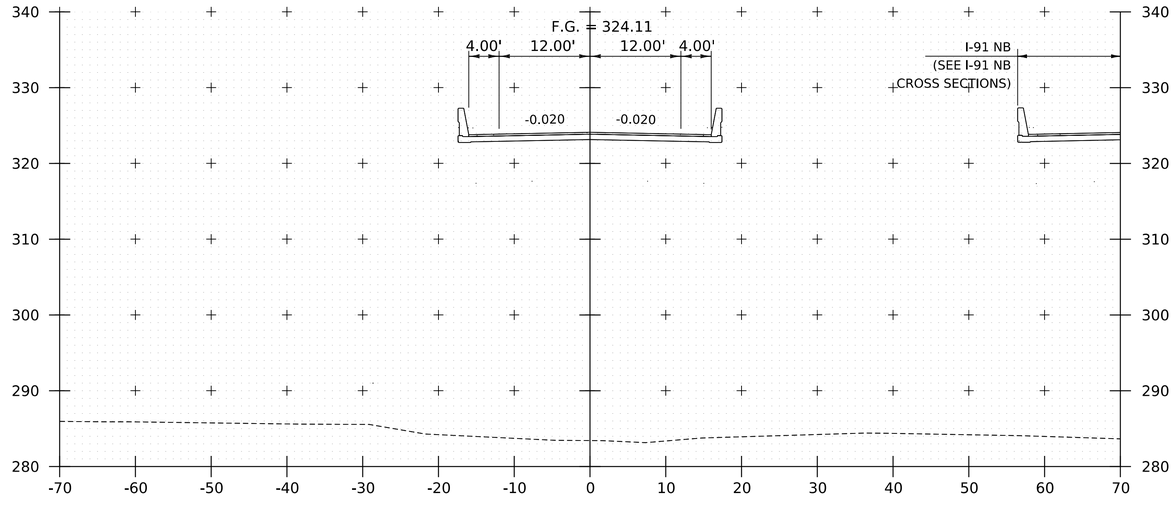
12179+00



12177+50

BEGIN BRIDGE 26S

12177+29.57

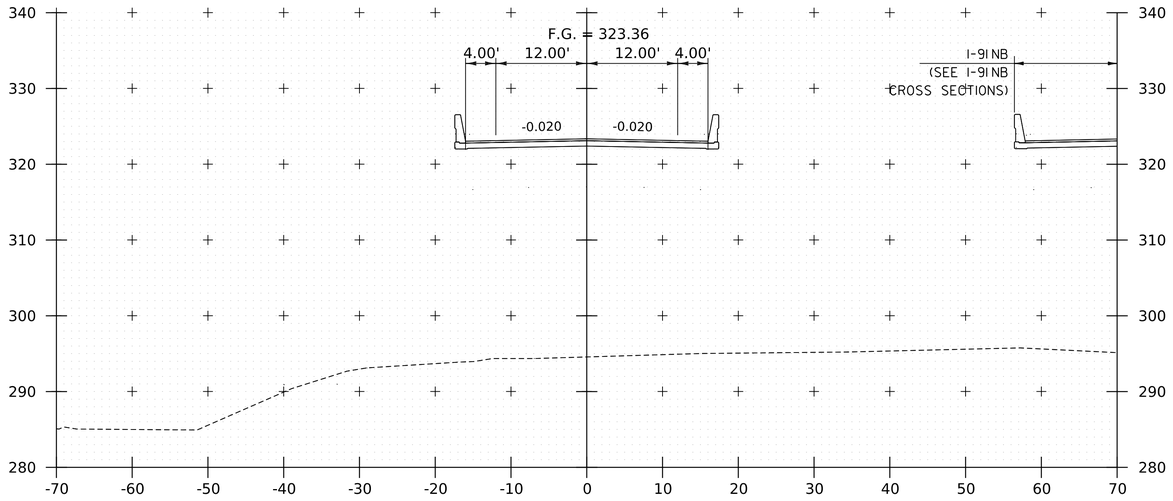


12178+50

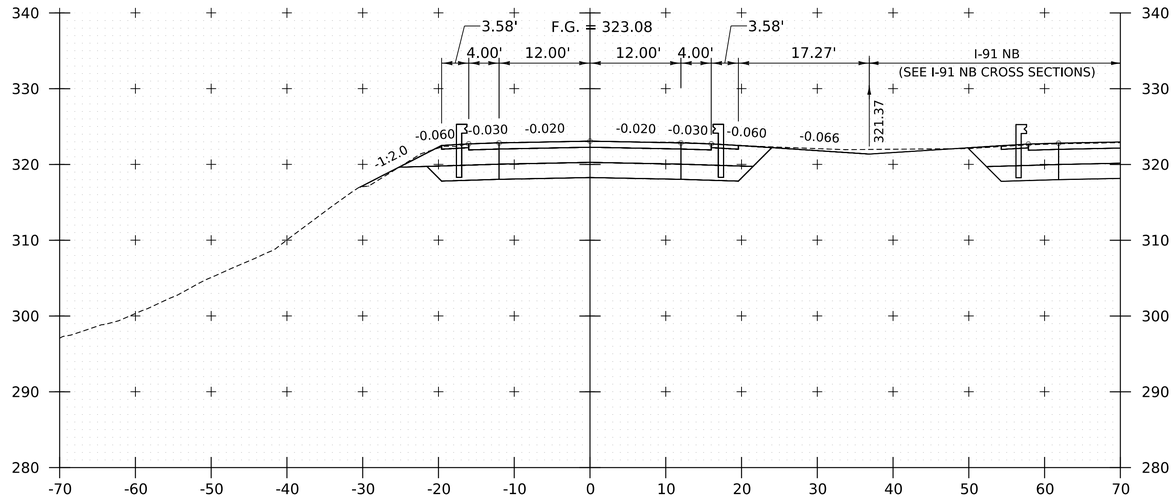
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

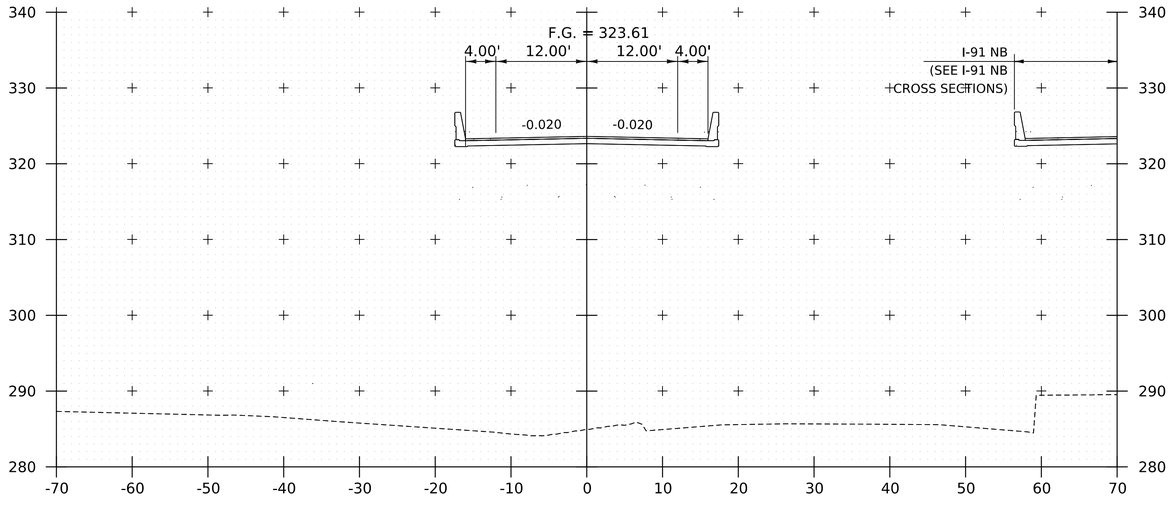
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 10	SHEET 535 OF 922



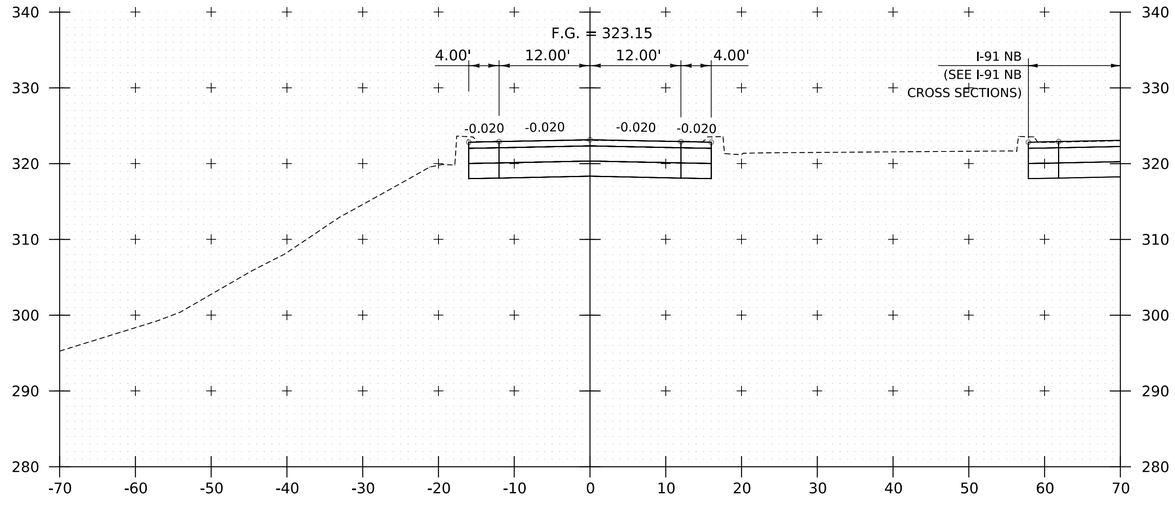
12180+00



12180+75



12179+50



12180+50

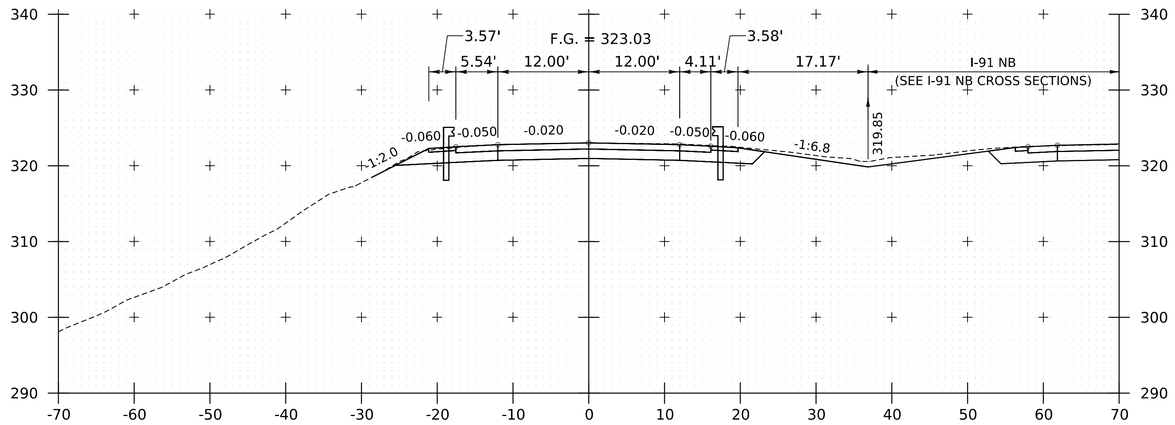
END BRIDGE 26S

12180+42.07

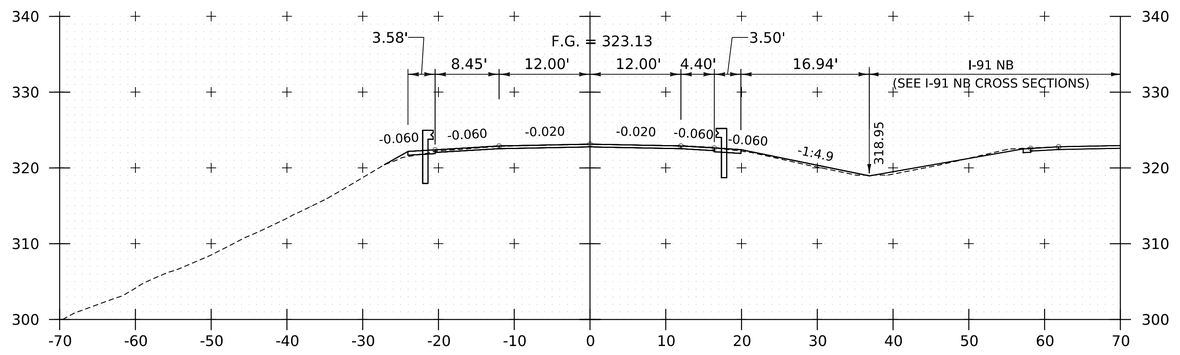
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

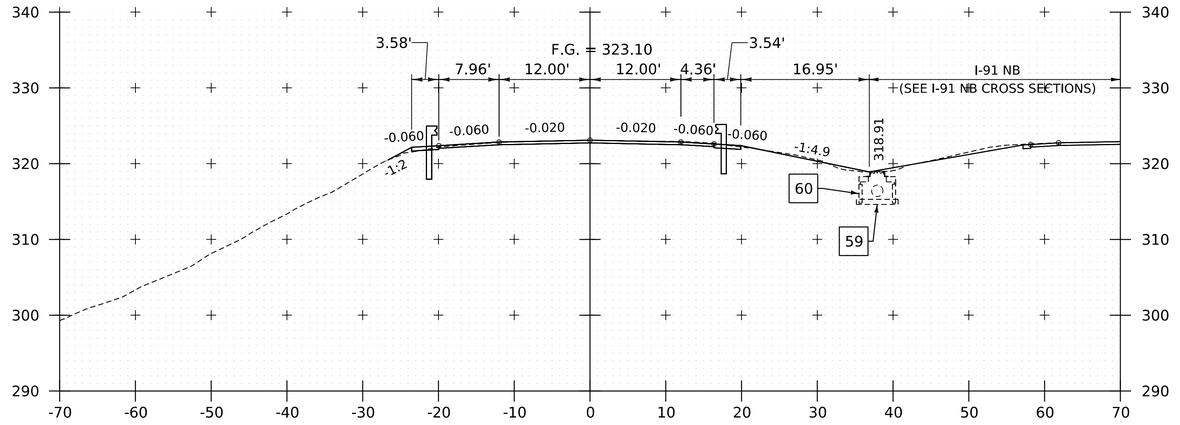
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 11	SHEET 536 OF 922



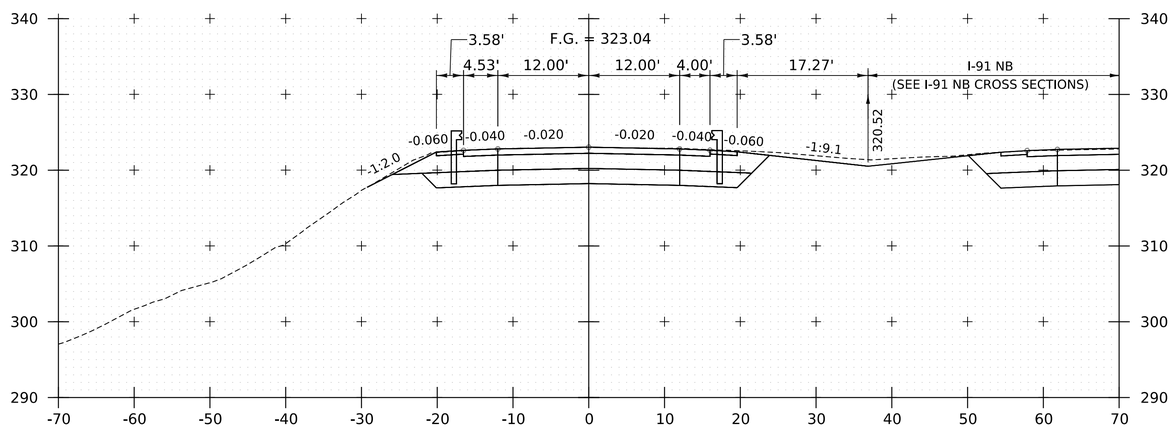
12181+25



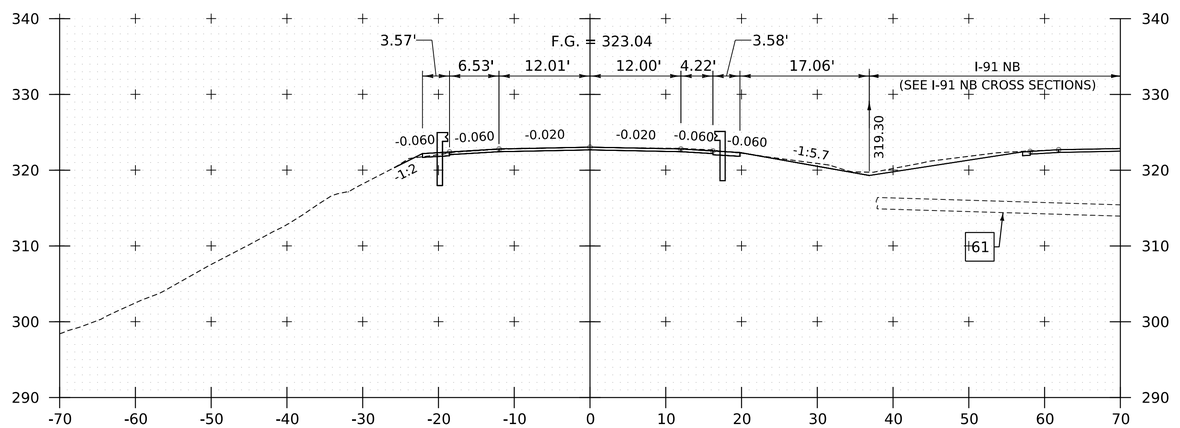
12182+00



12181+86



12181+00



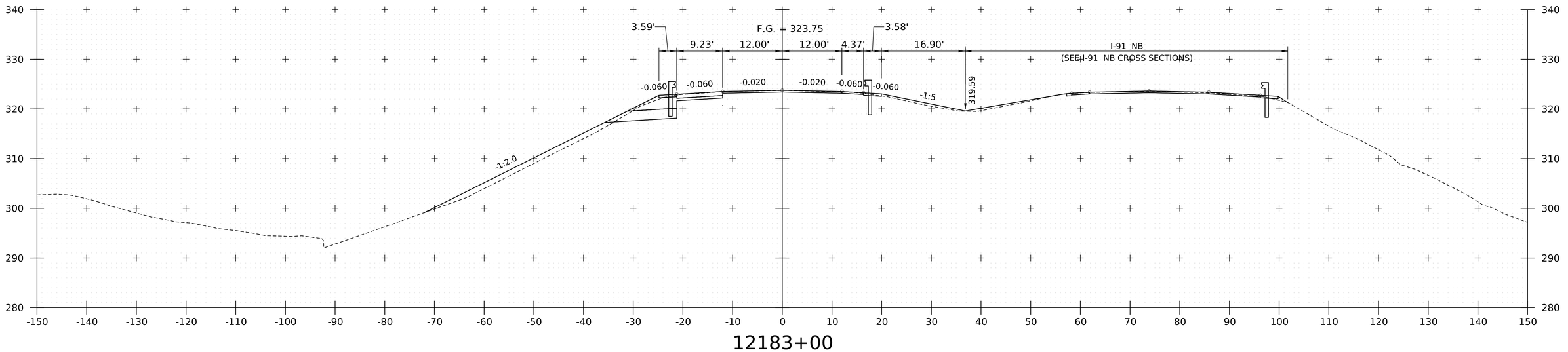
12181+50

STOP I-91 SOUTHBOUND PROJECT

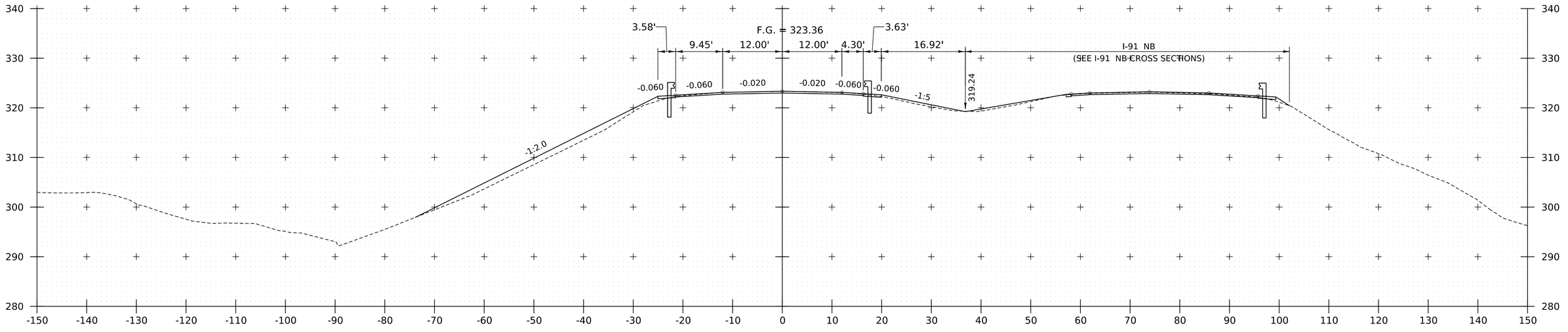
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_26.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 12	SHEET 537 OF 922



12183+00

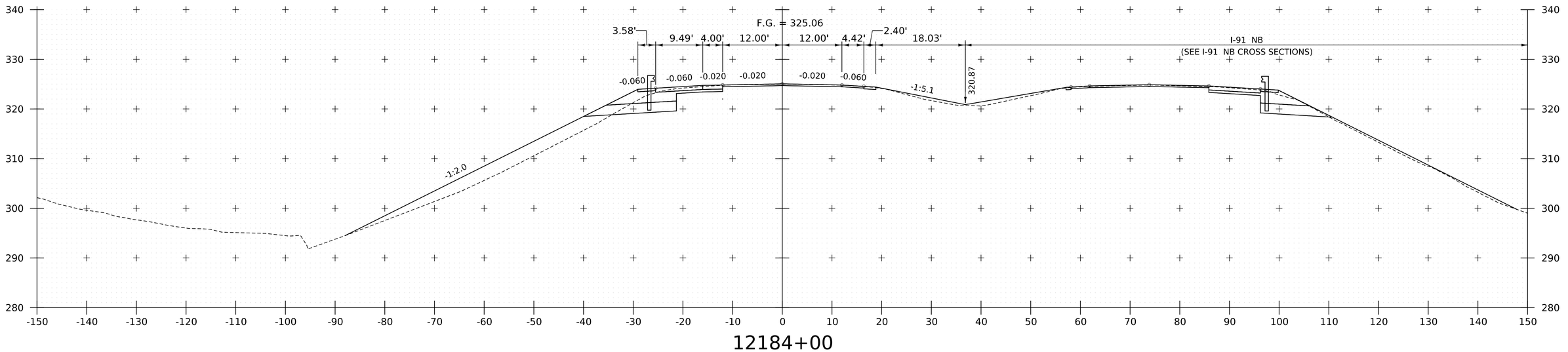


12182+50

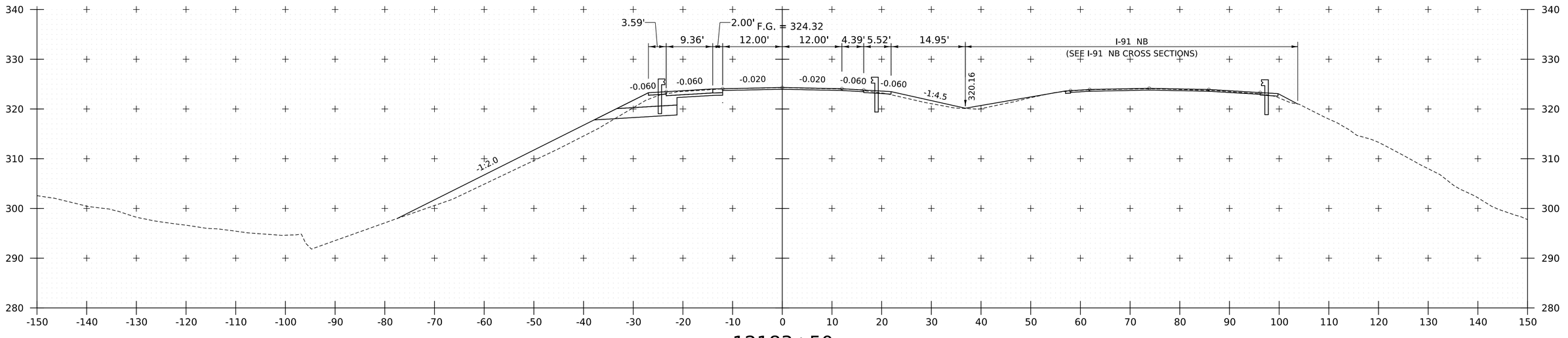
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 13	SHEET 538 OF 922



12184+00

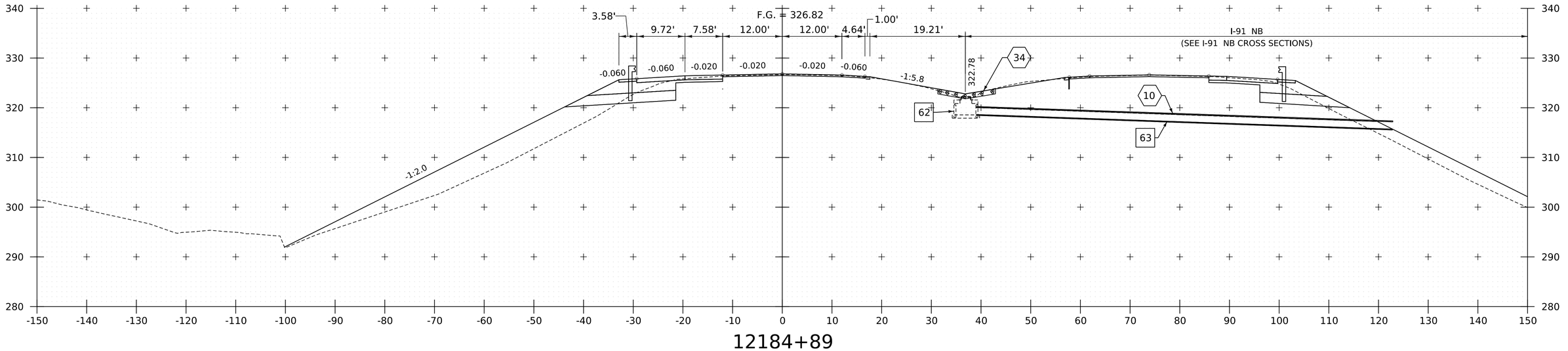


12183+50

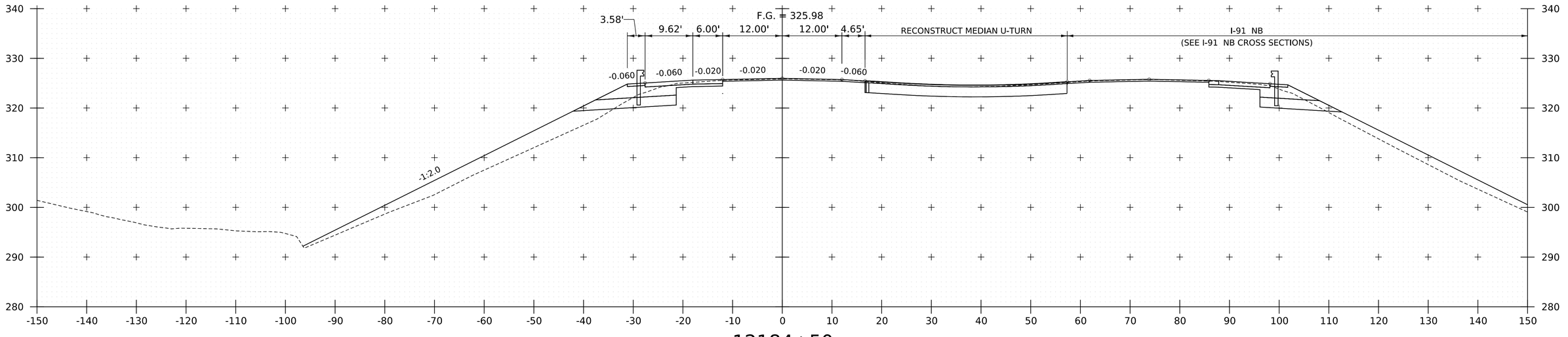
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 14	SHEET 539 OF 922



12184+89

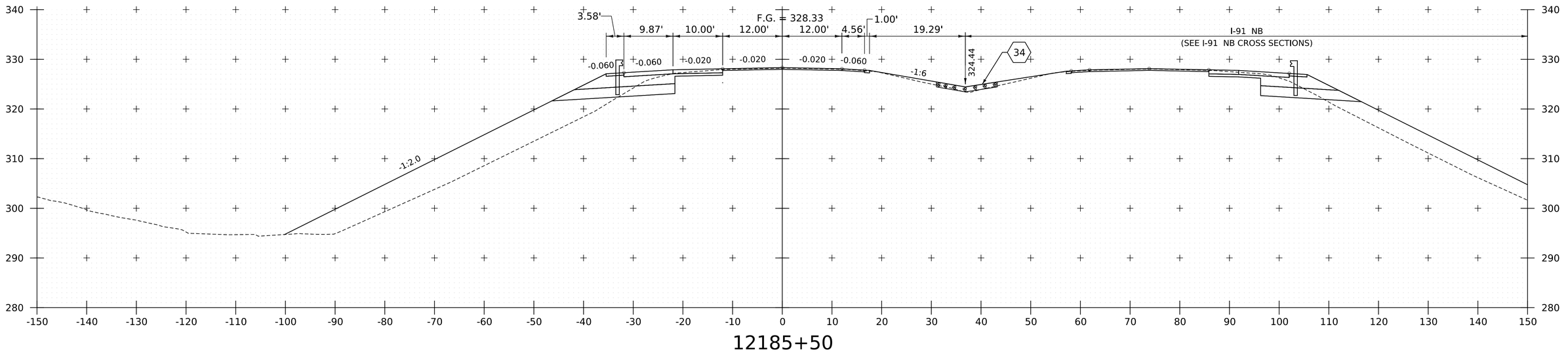


12184+50

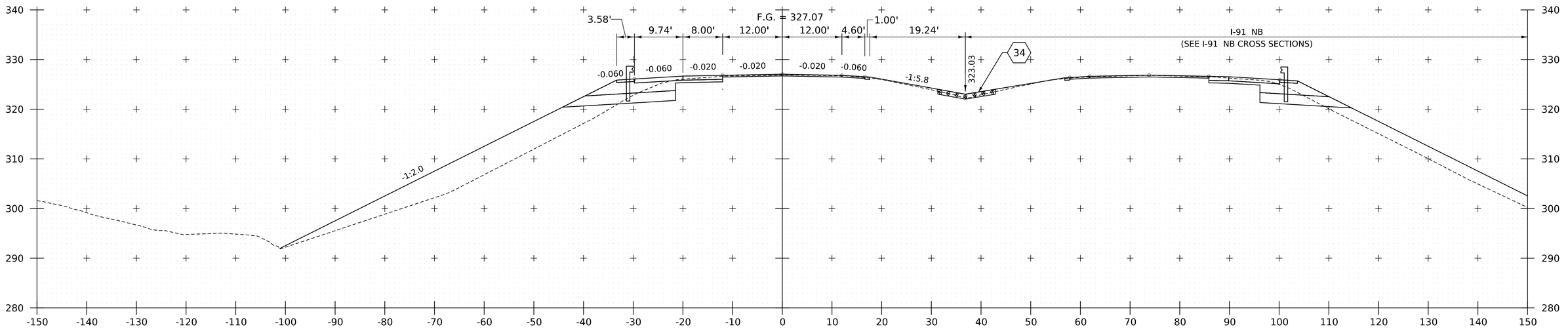
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 15	SHEET 540 OF 922



12185+50

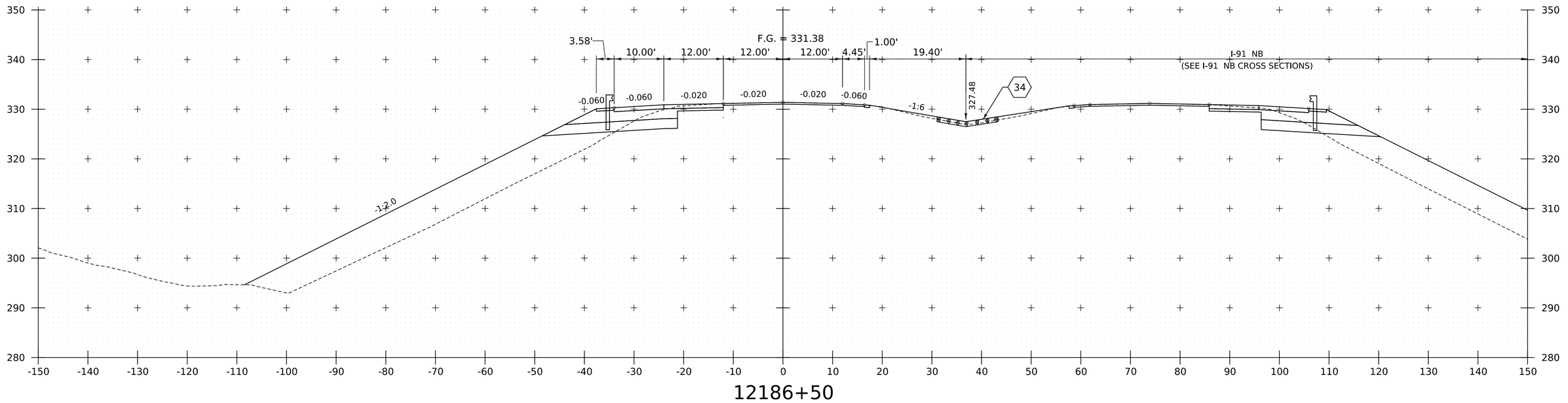


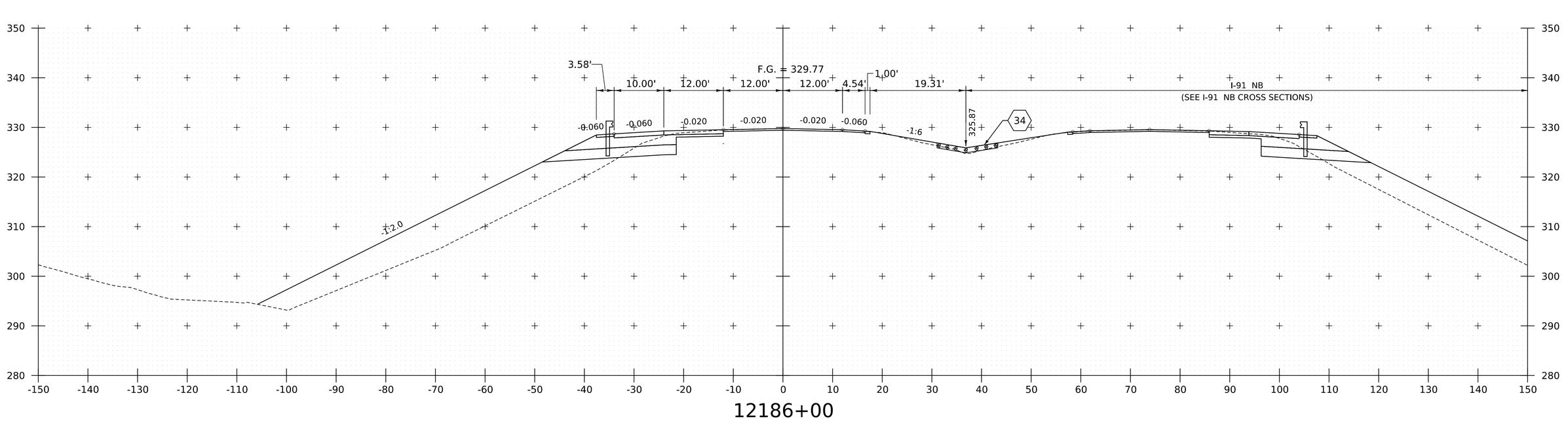
12185+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

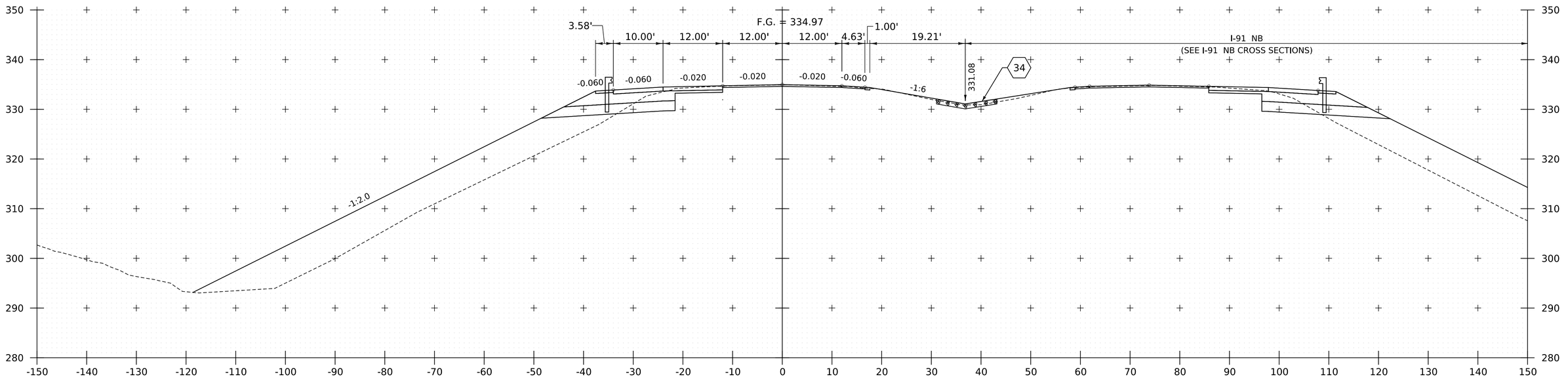
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 16	SHEET 541 OF 922

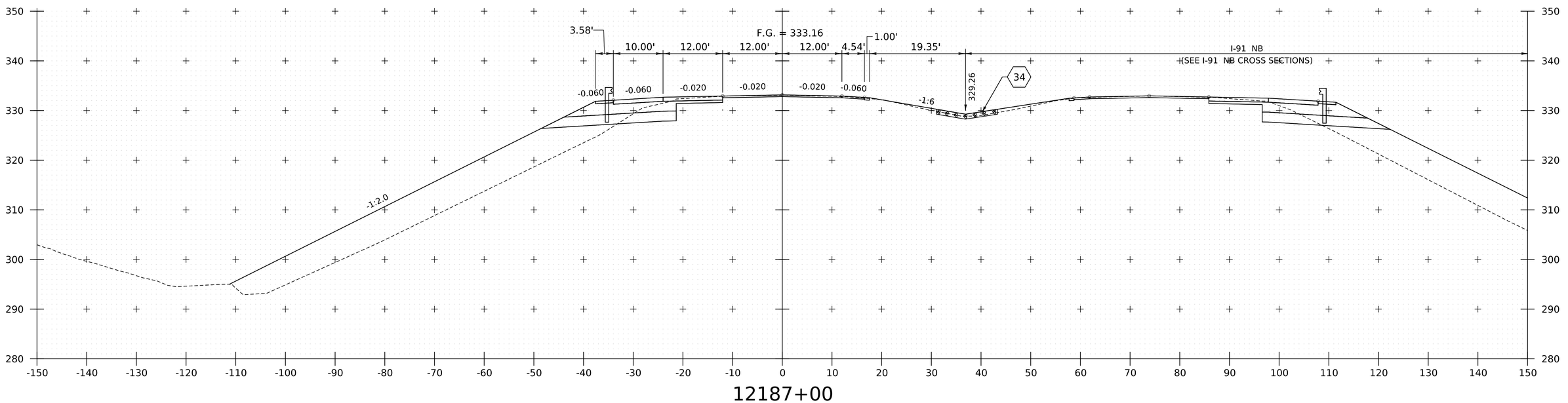




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 17	SHEET 542 OF 922

HNTB

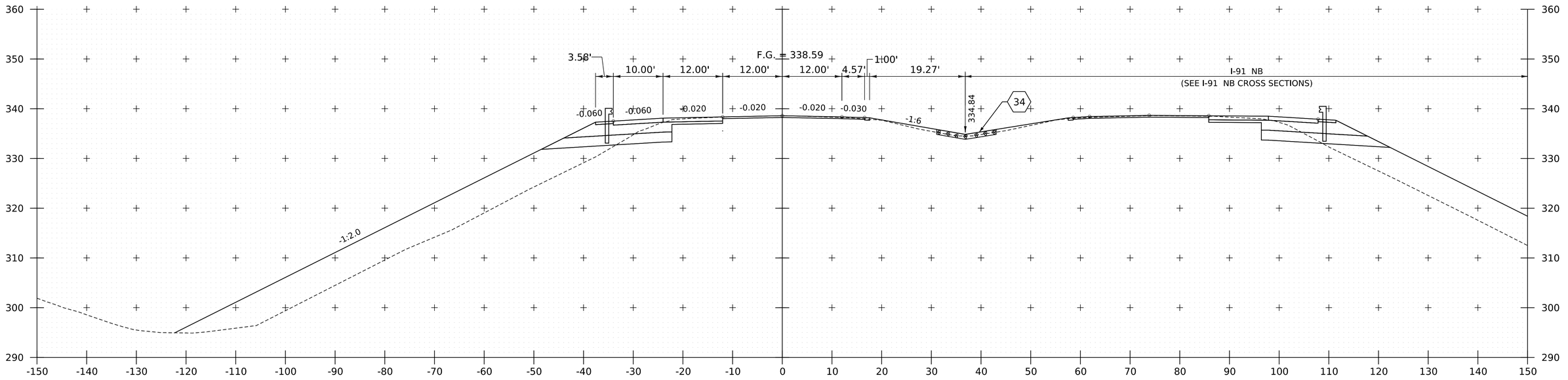


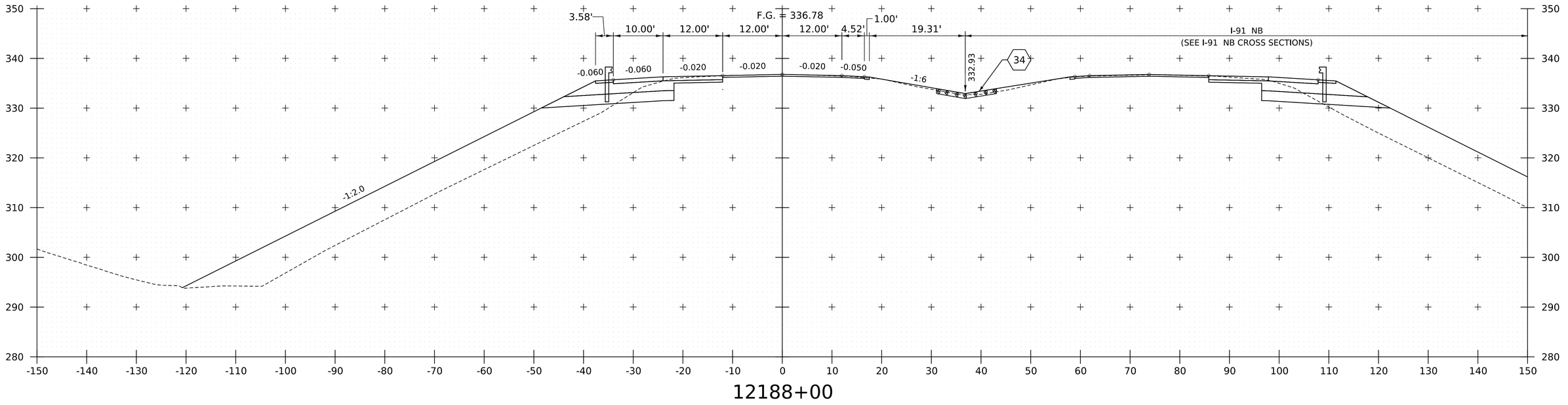


NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 18	SHEET 543 OF 922

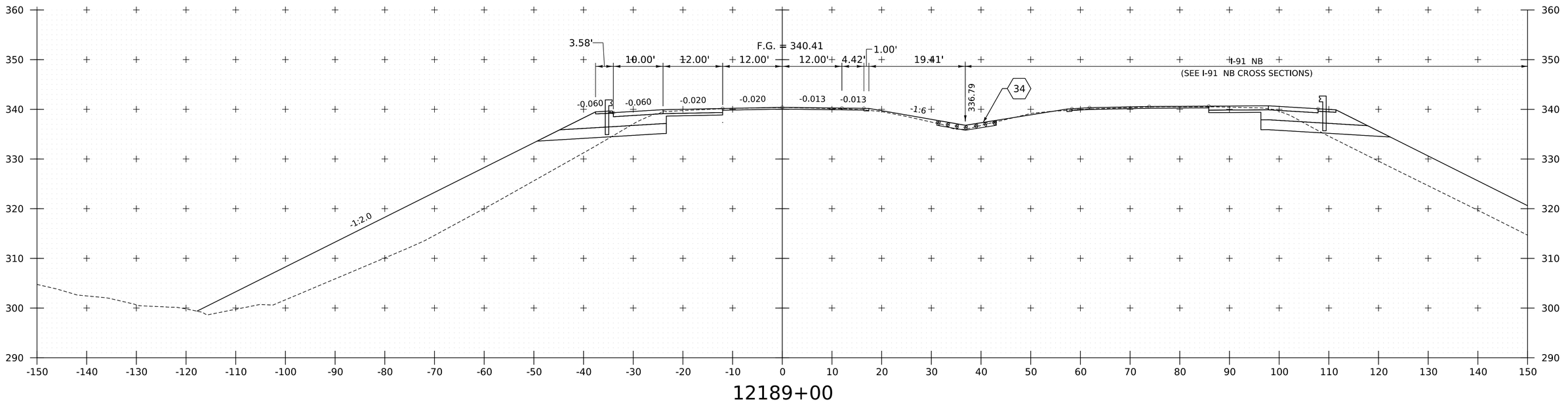


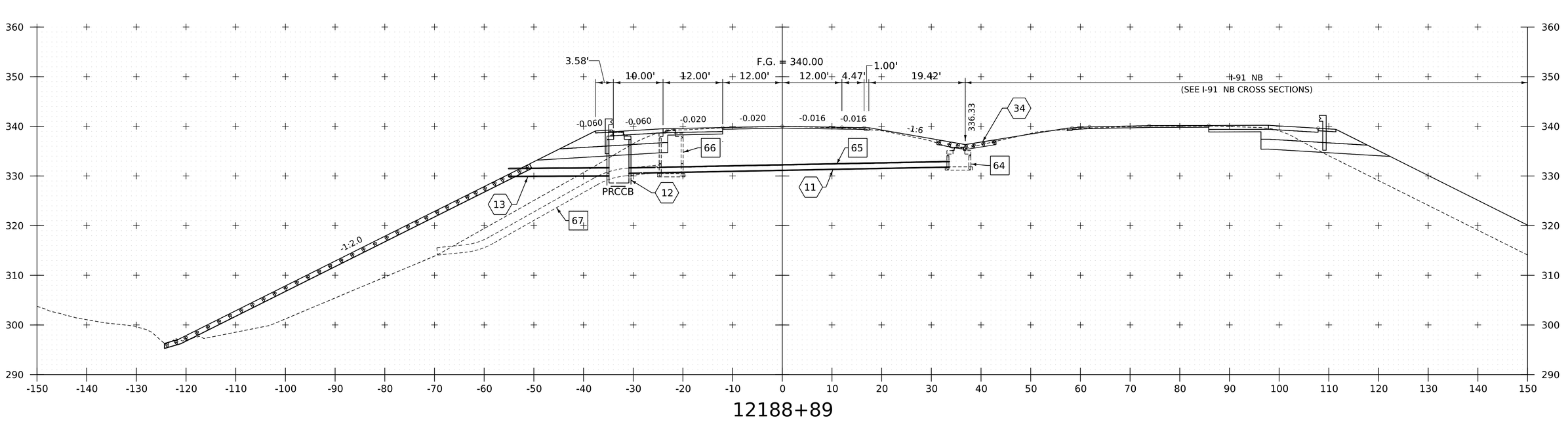


NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 19	SHEET 544 OF 922

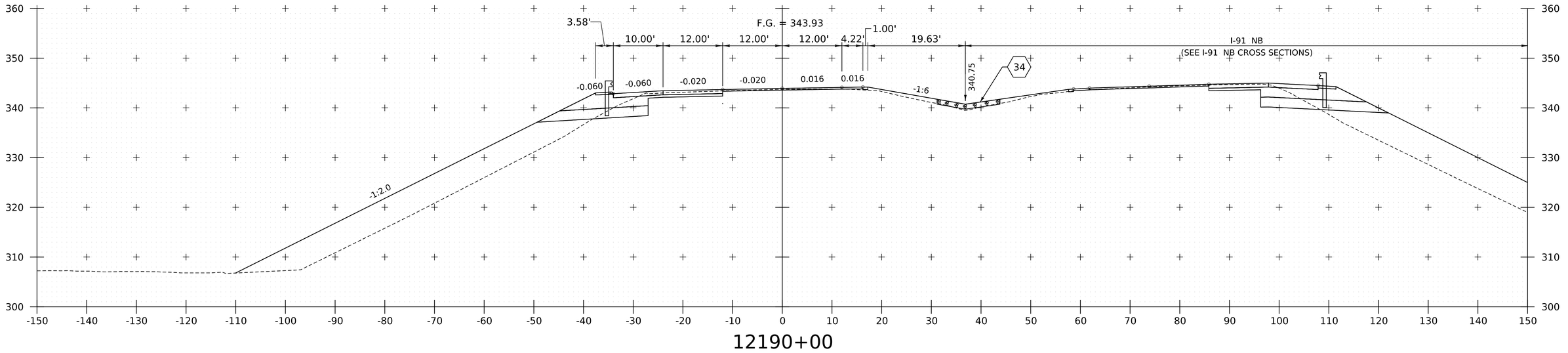




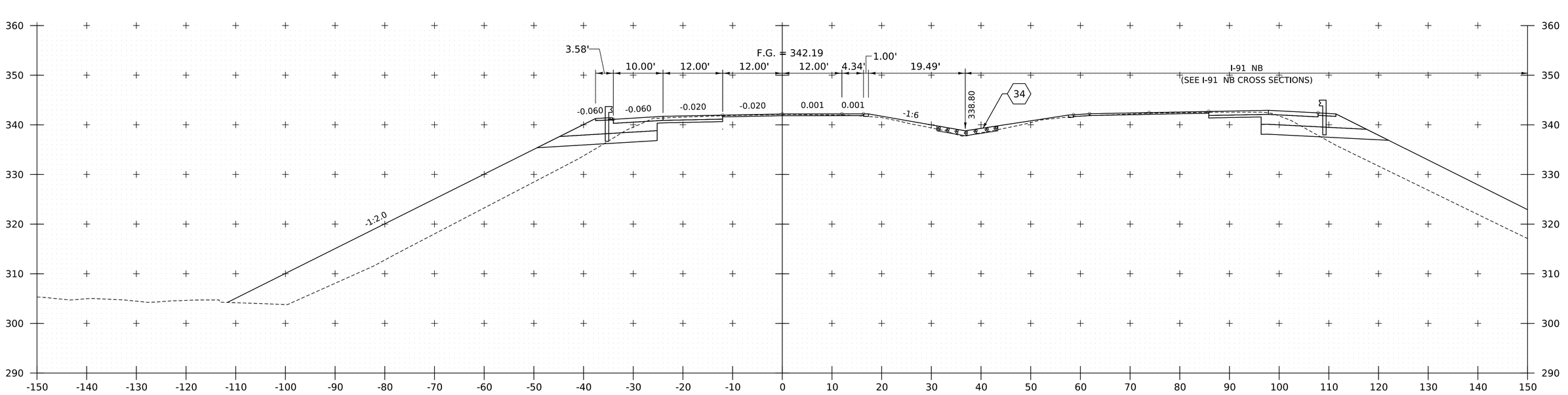
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 20	SHEET 545 OF 922



12190+00

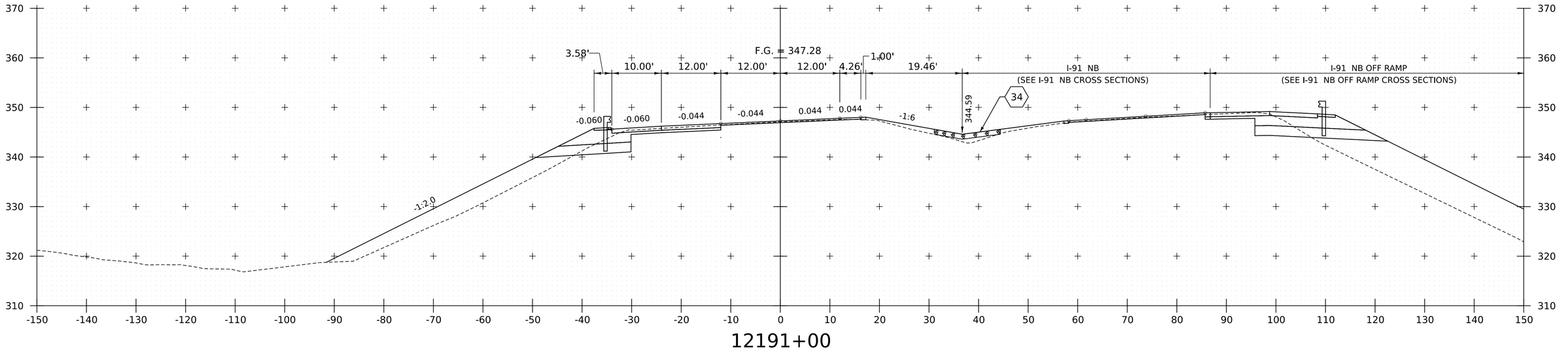


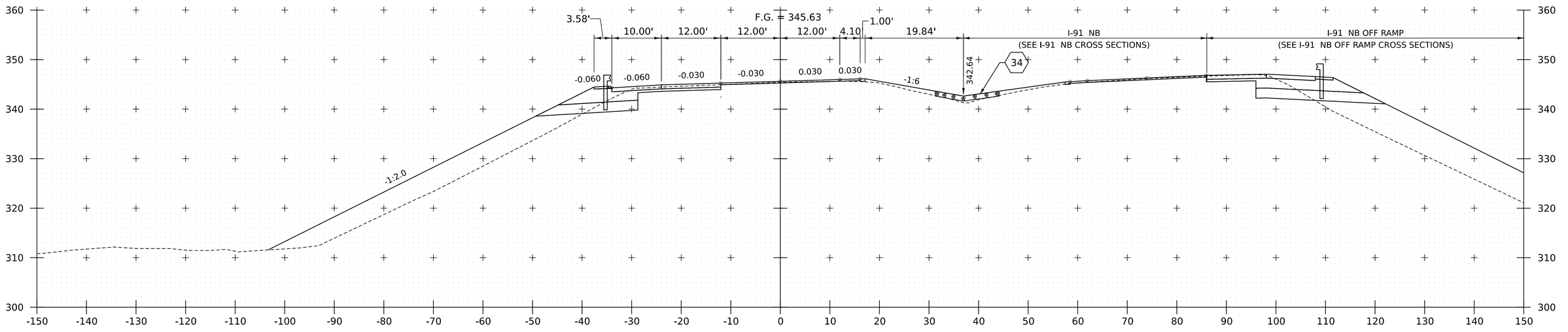
12189+50

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 21	SHEET 546 OF 922

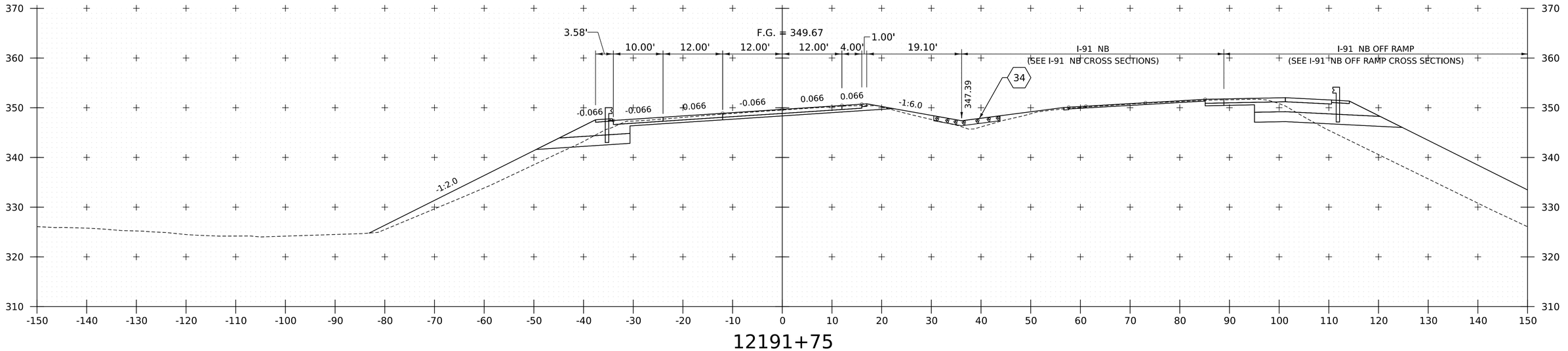




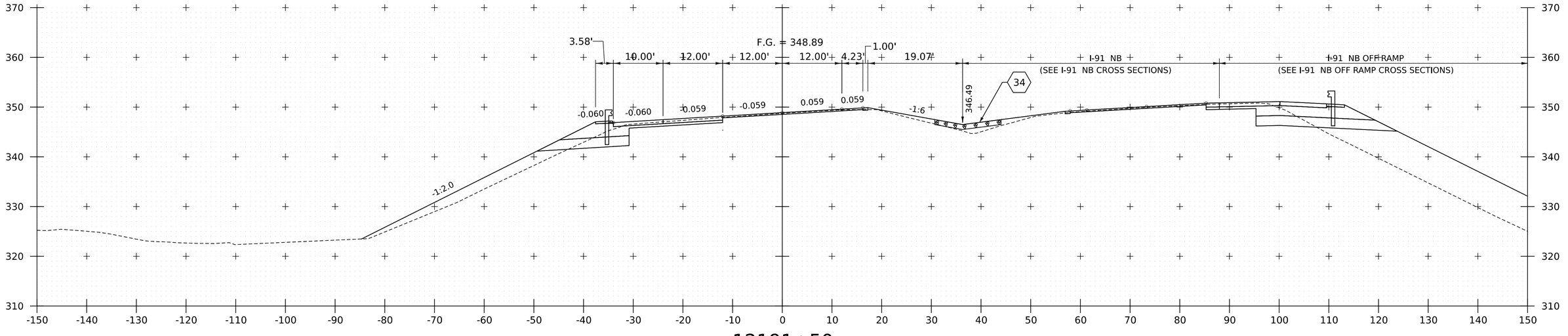
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 22	SHEET 547 OF 922



12191+75

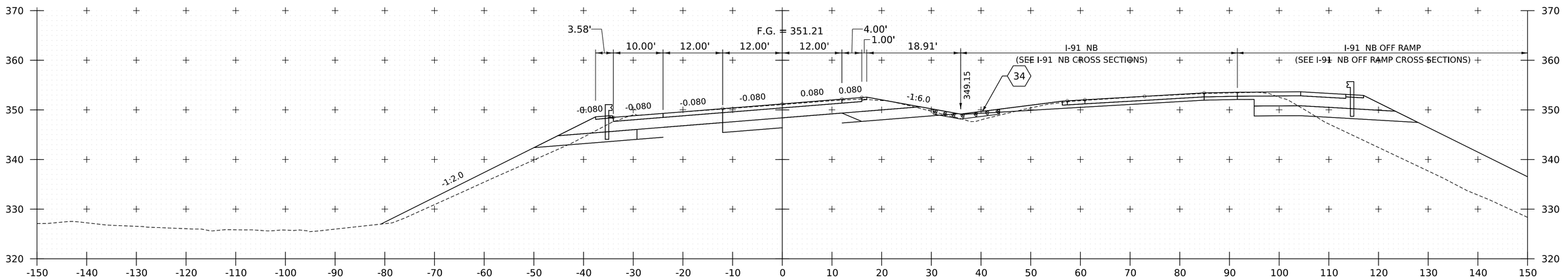


12191+50

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

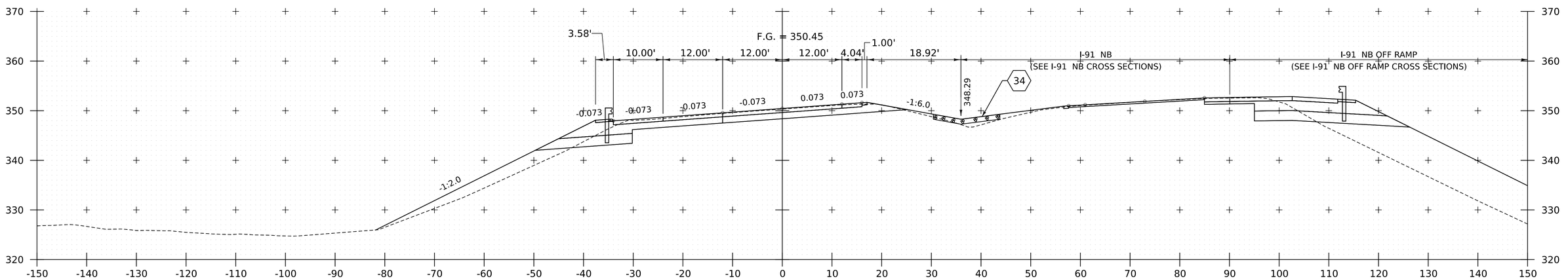
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 23	SHEET 548 OF 922



12192+25

RESUME I-91 SOUTHBOUND PROJECT

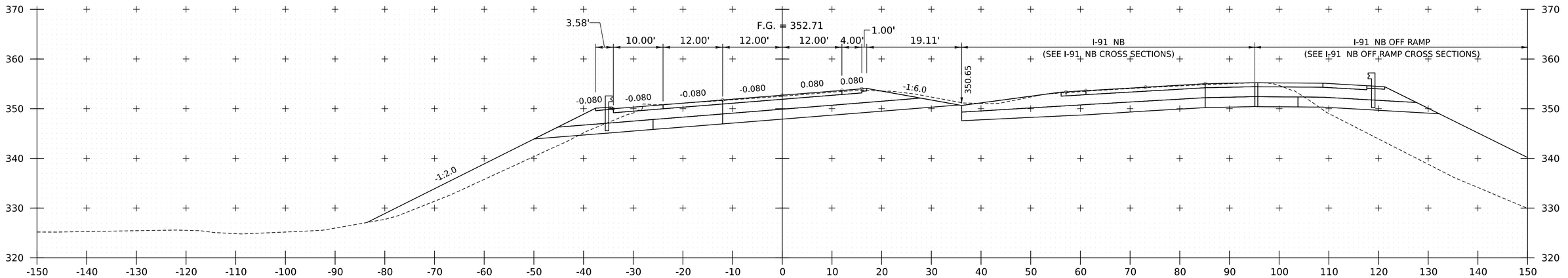


12192+00

NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 24	SHEET 549 OF 922



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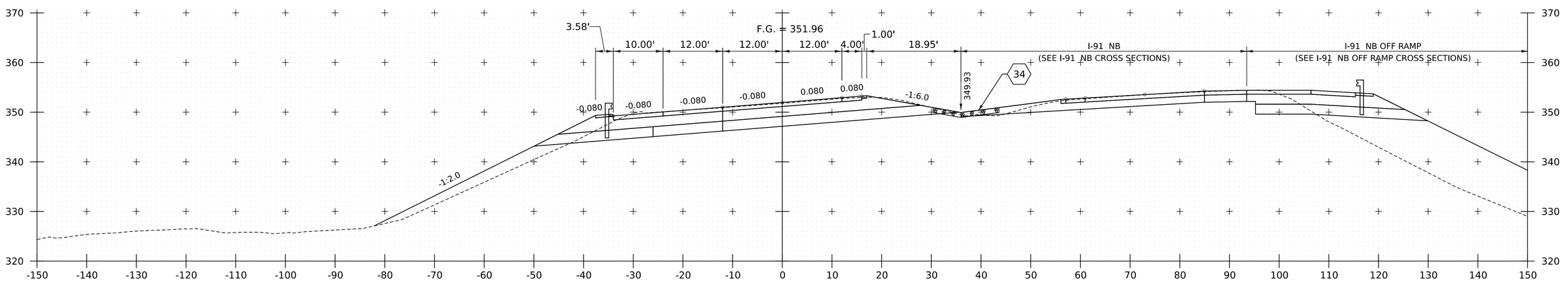
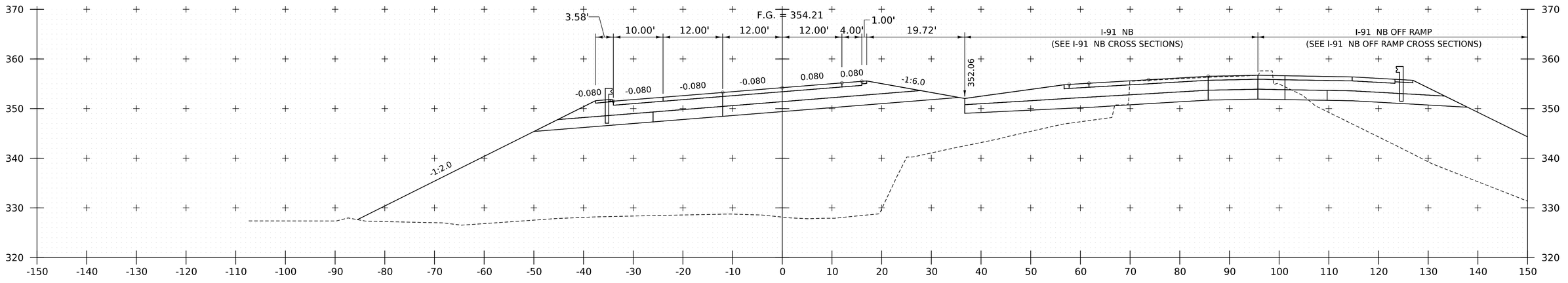


12192+50

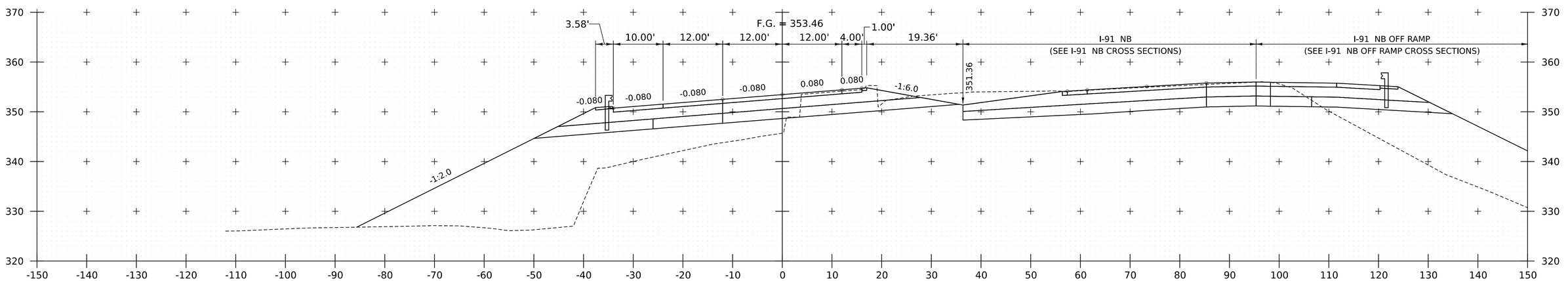
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 25	SHEET 550 OF 922



12193+25

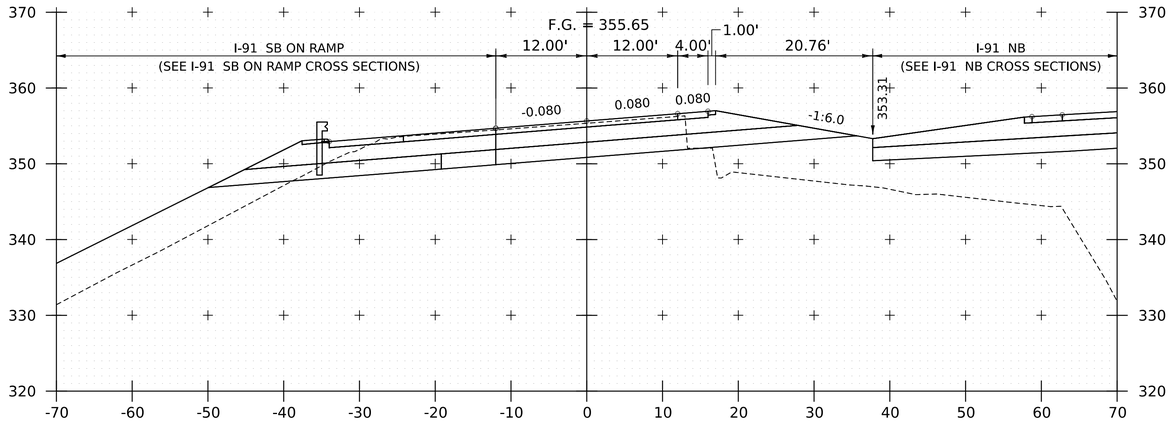


12193+00

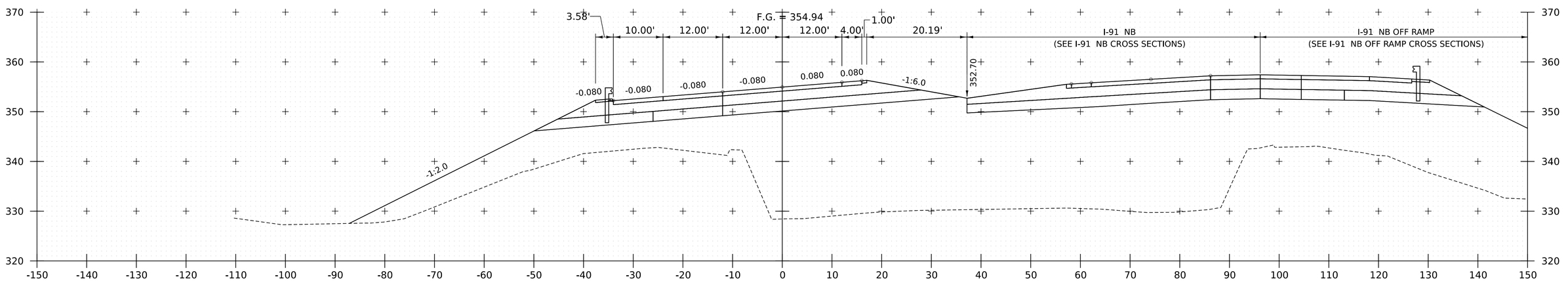
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 26	SHEET 551 OF 922



12193+75

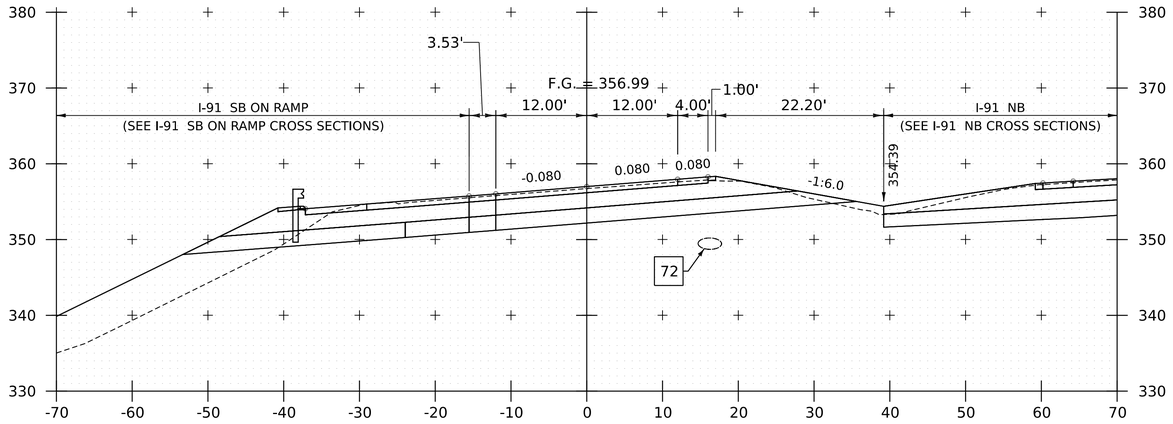


12193+50

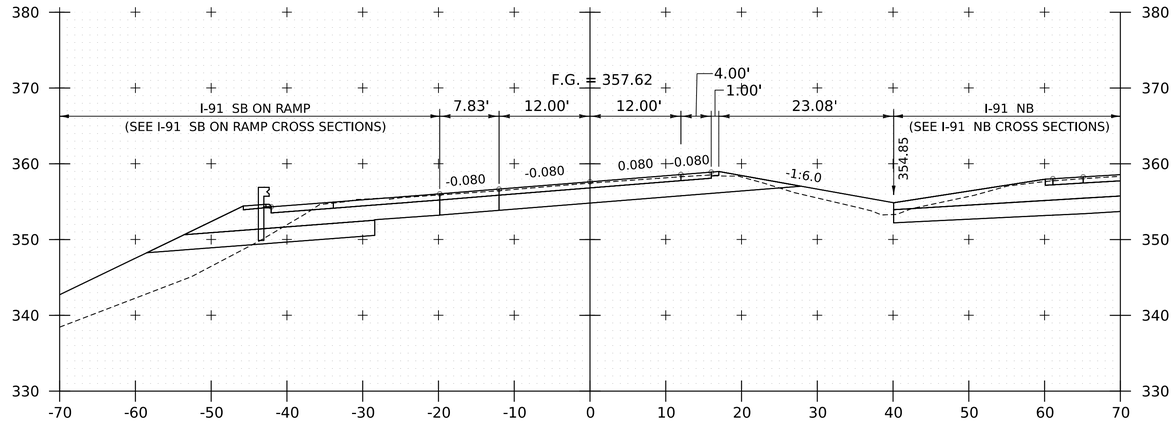
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

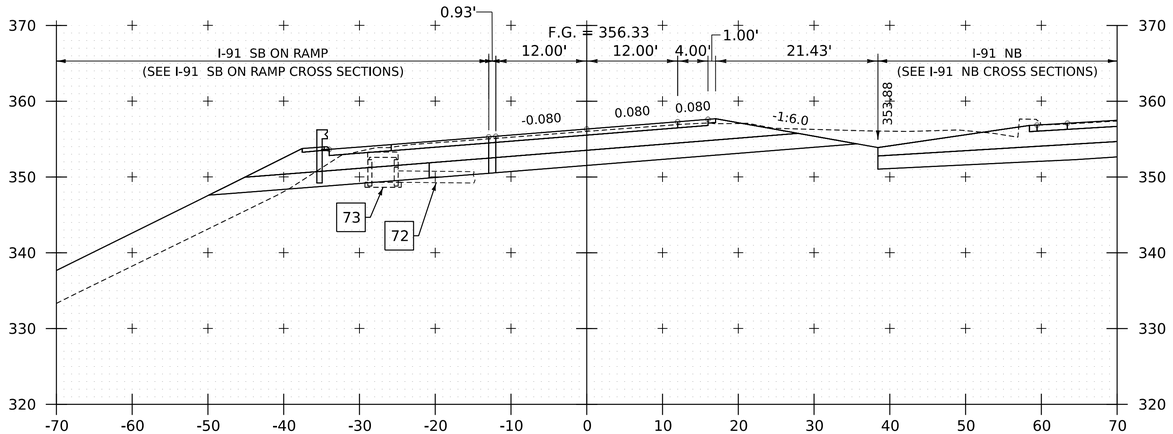
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 27	SHEET 552 OF 922



12194+25

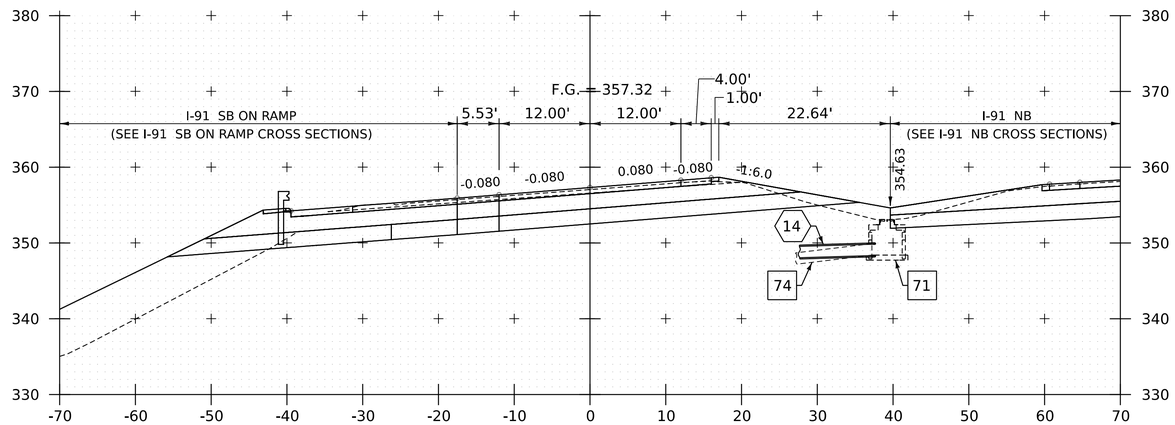


12194+50



12194+00

STOP I-91 SOUTHBOUND PROJECT

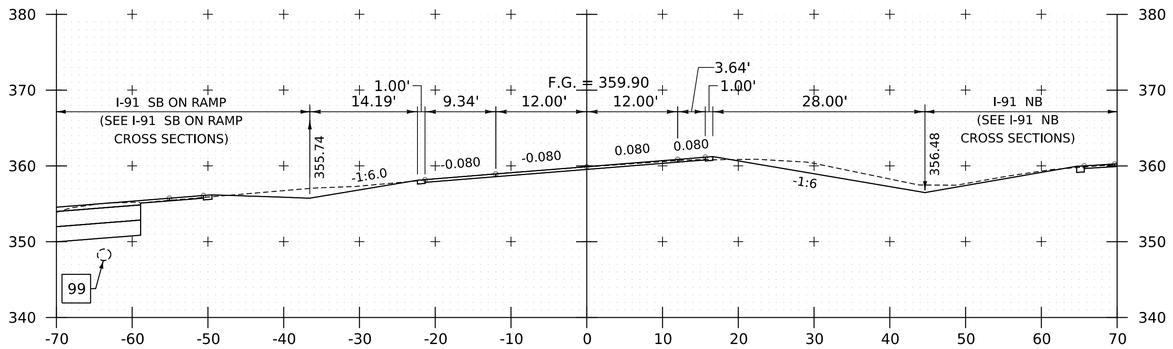


12194+38

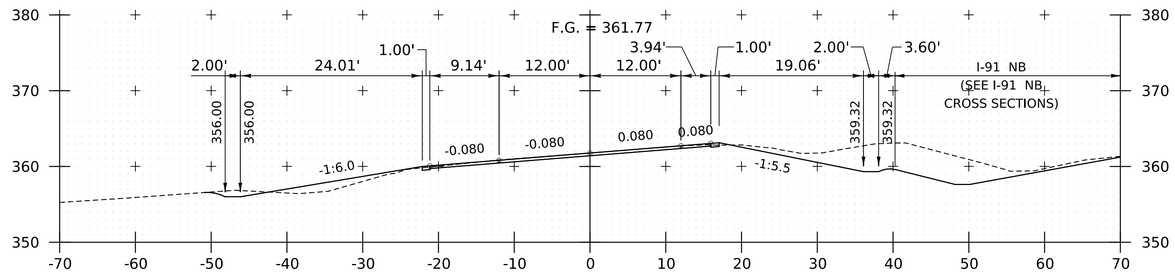
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

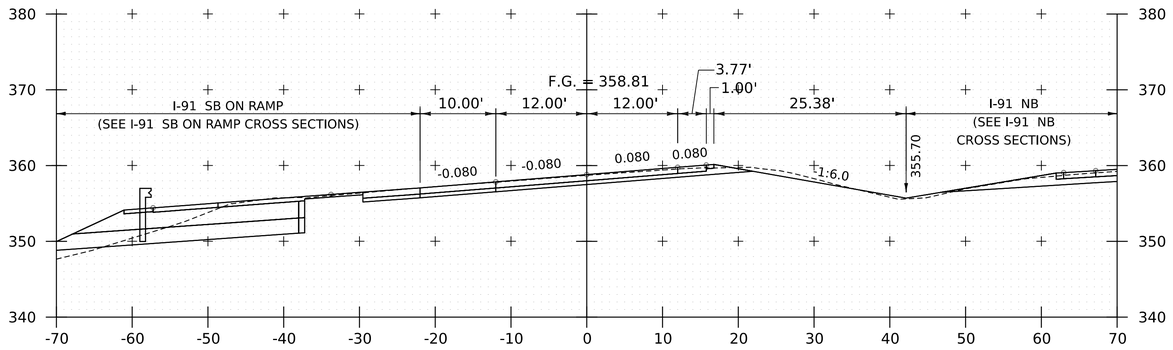
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 28	SHEET 553 OF 922



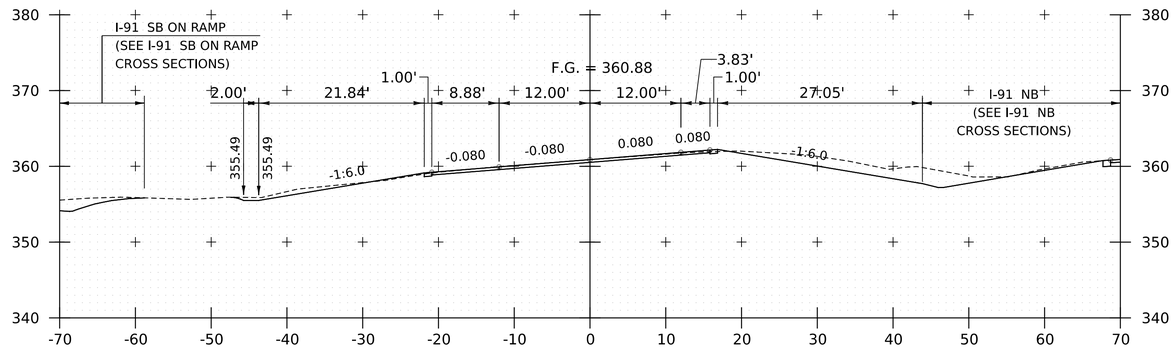
12195+50



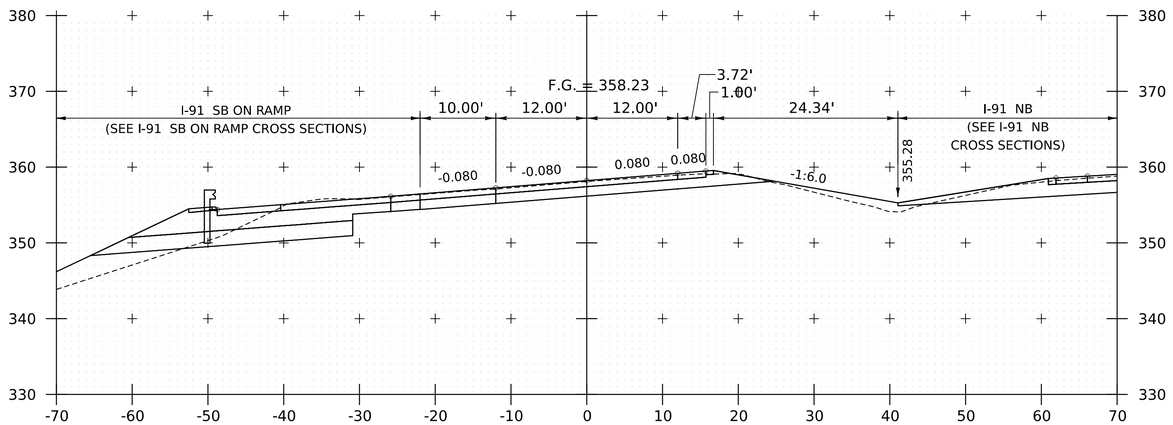
12196+50



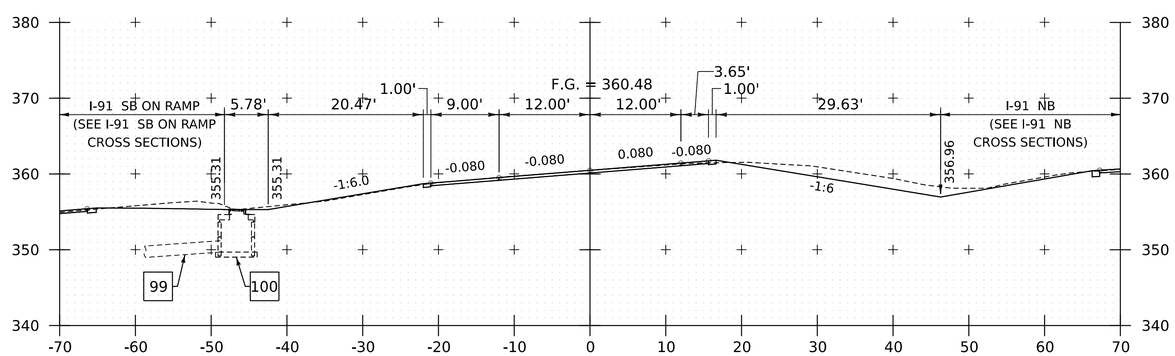
12195+00



12196+00



12194+75

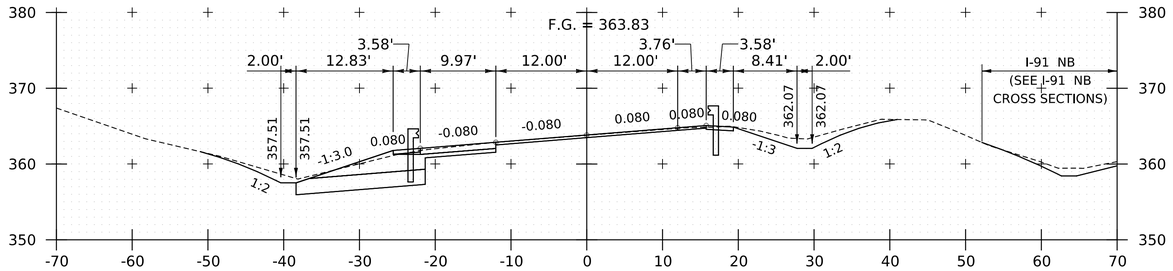


12195+79

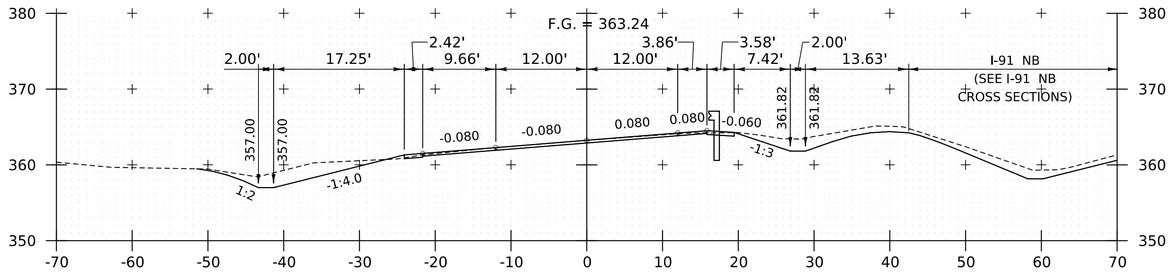
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

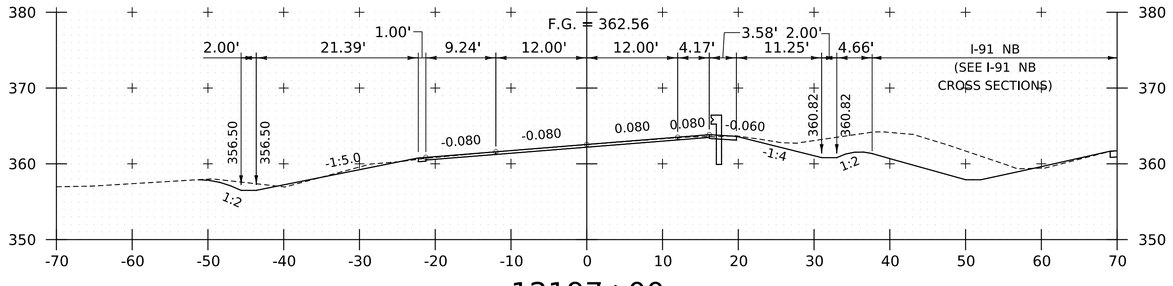
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_SB_27.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 29	SHEET 554 OF 922



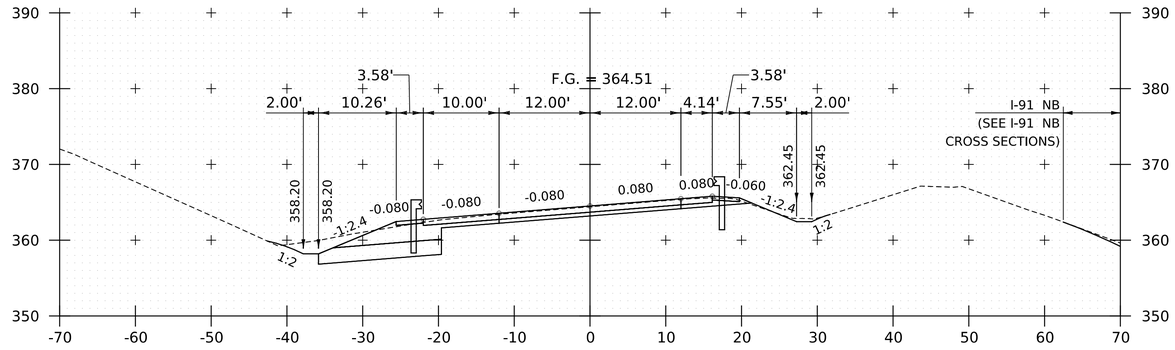
12198+00



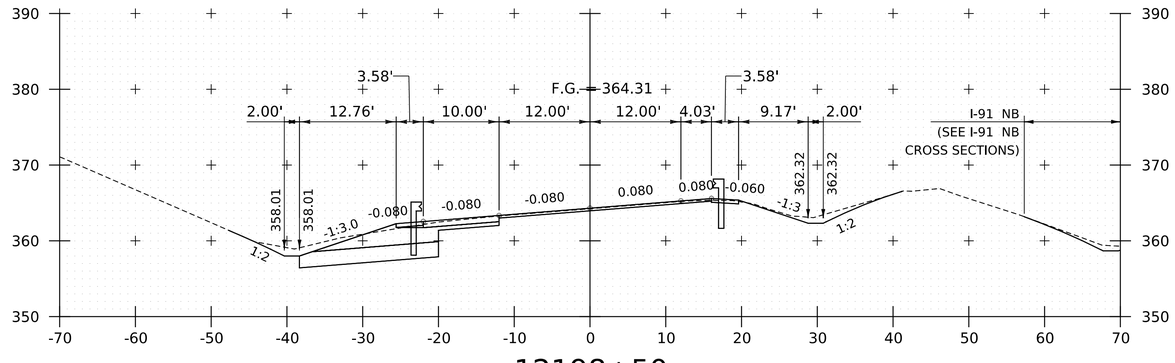
12197+50



12197+00



12198+75

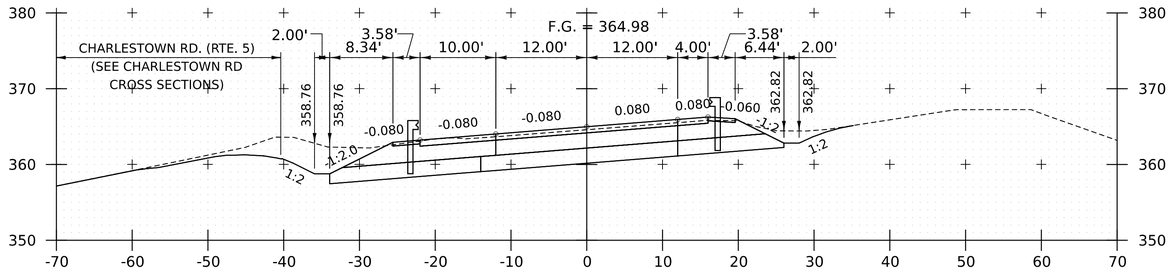


12198+50

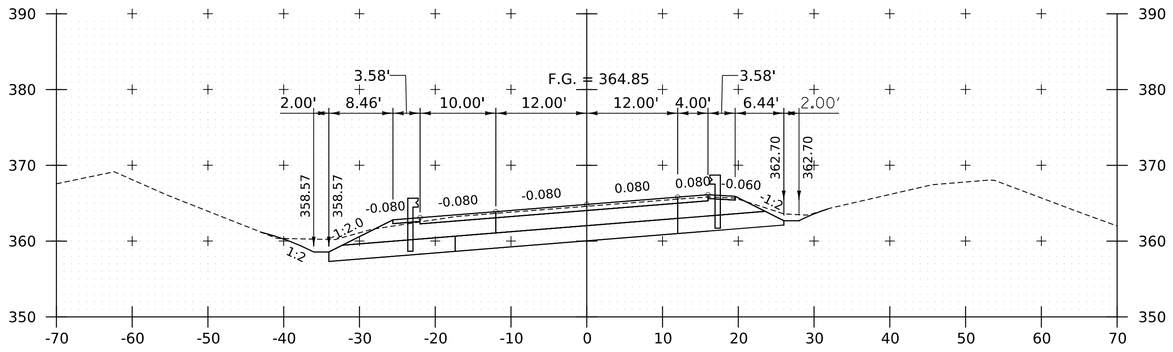
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs-I-91_SB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 30	SHEET 555 OF 922

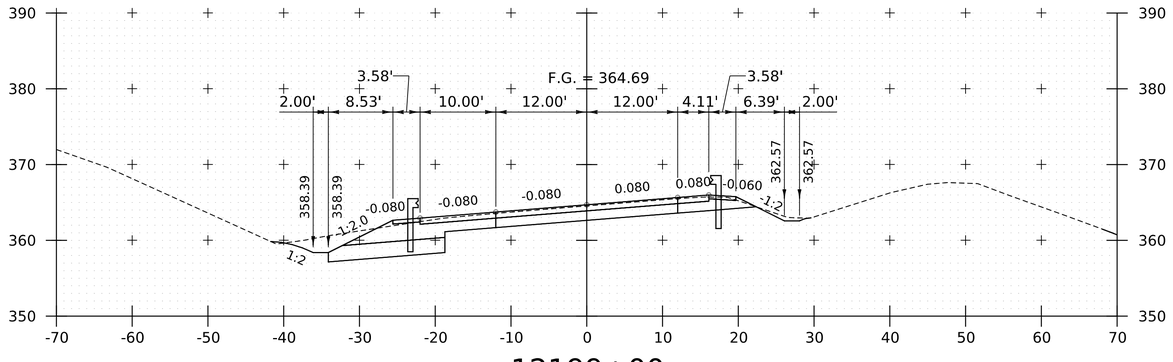


12199+50

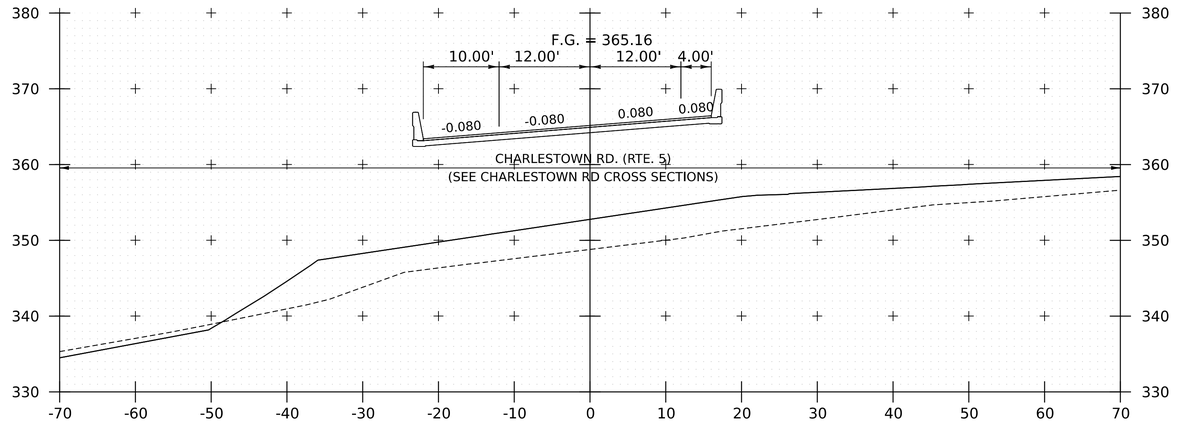


12199+25

RESUME I-91 SOUTHBOUND PROJECT



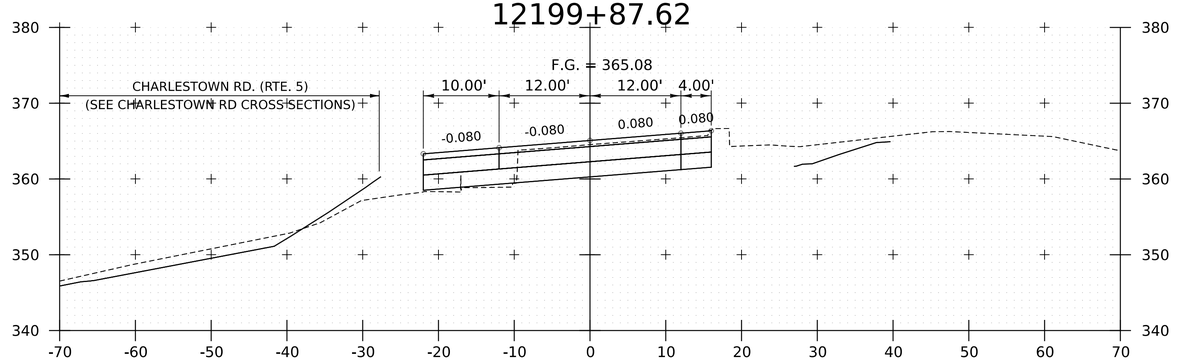
12199+00



12200+00

BEGIN BRIDGE 28S

12199+87.62

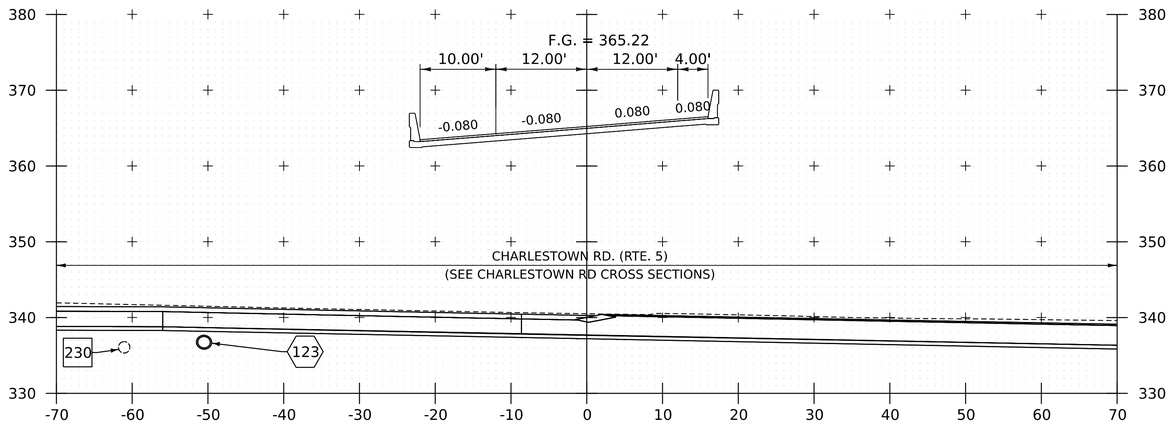


12199+75

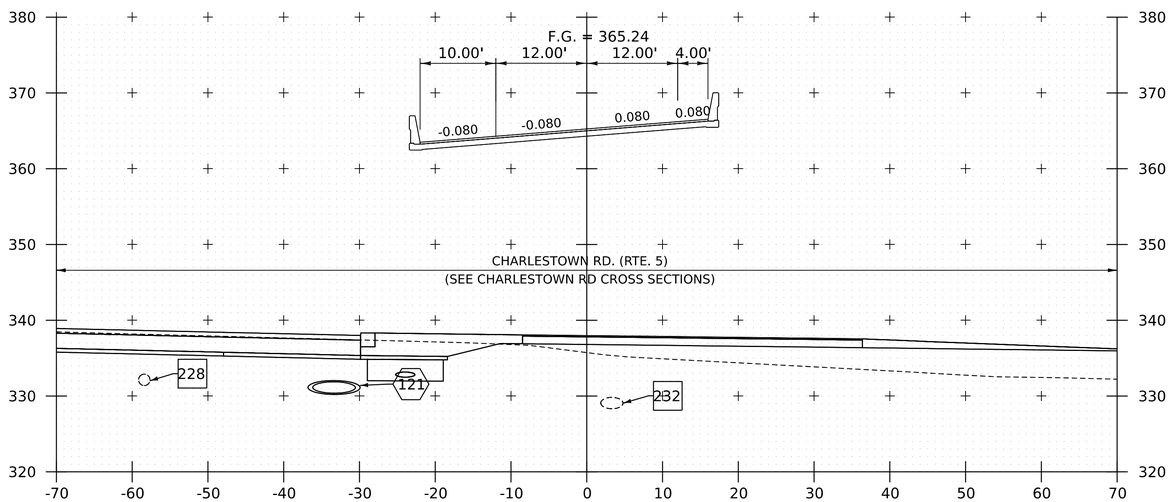
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

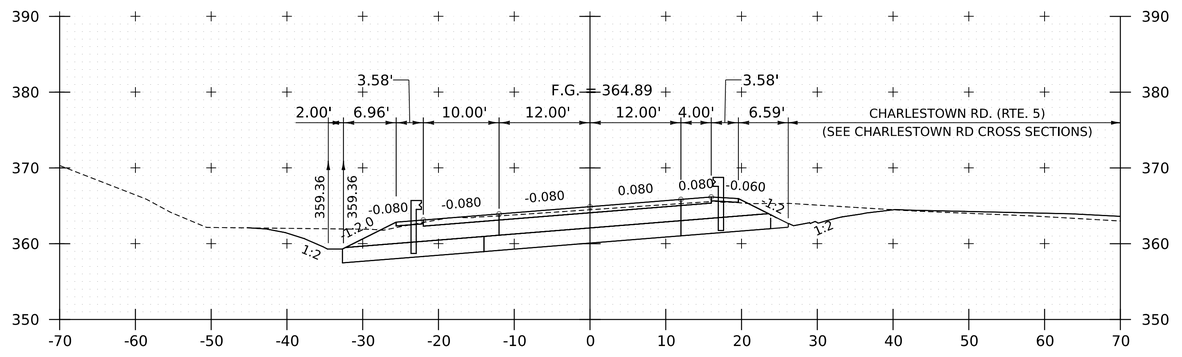
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs-I-91_SB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 31	SHEET 556 OF 922



12201+00



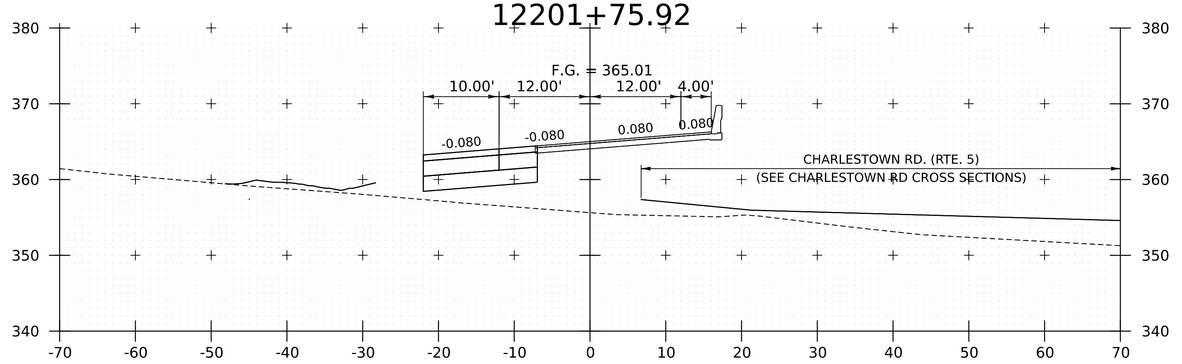
12200+50



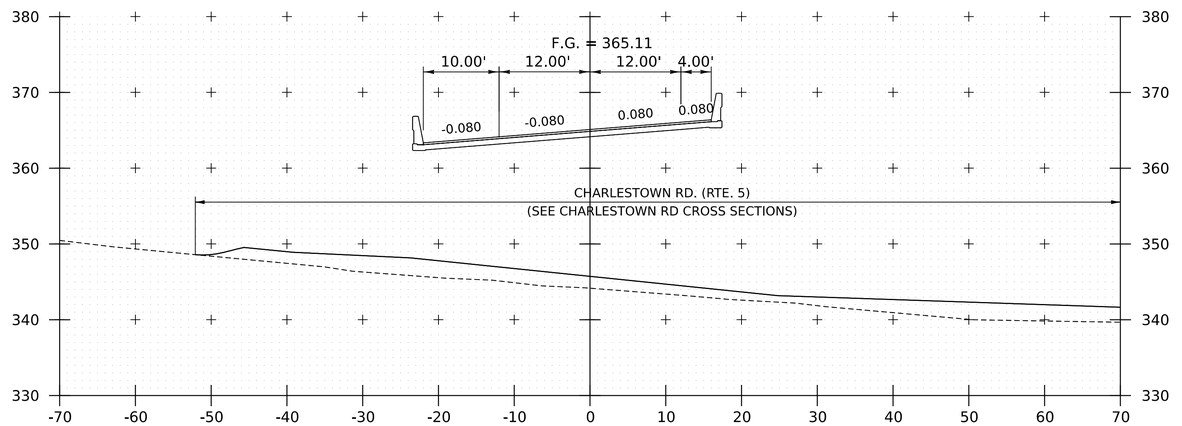
12202+00

END BRIDGE 28S

12201+75.92



12201+75

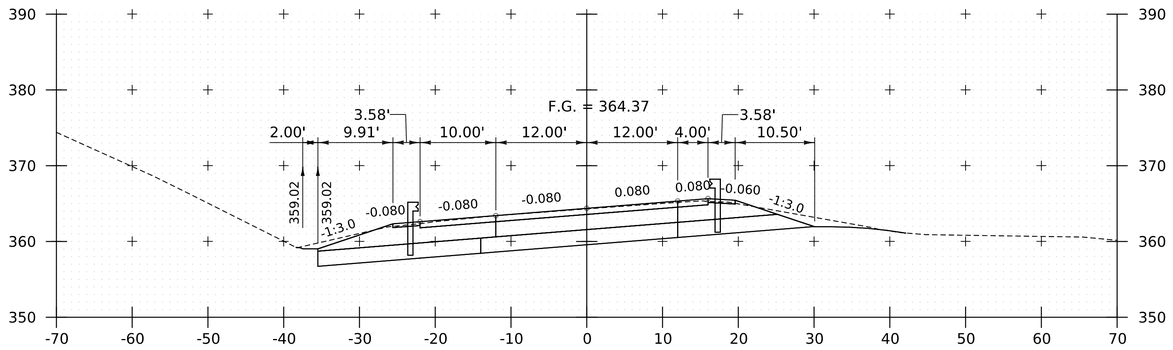


12201+50

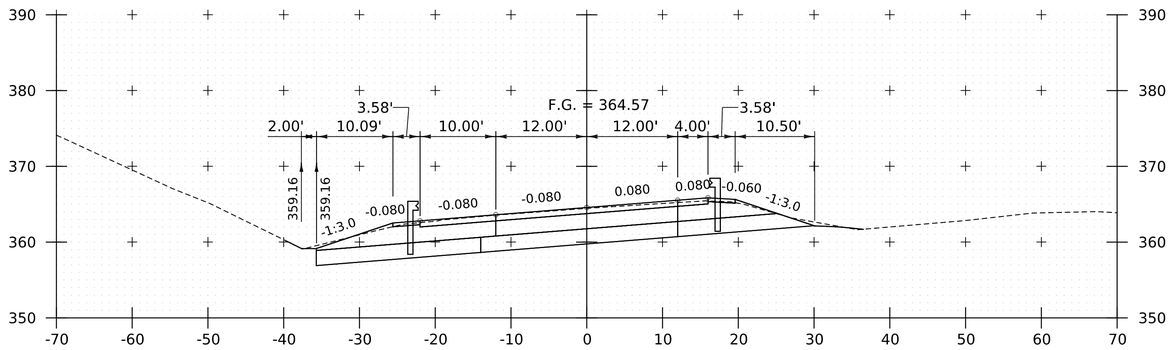
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

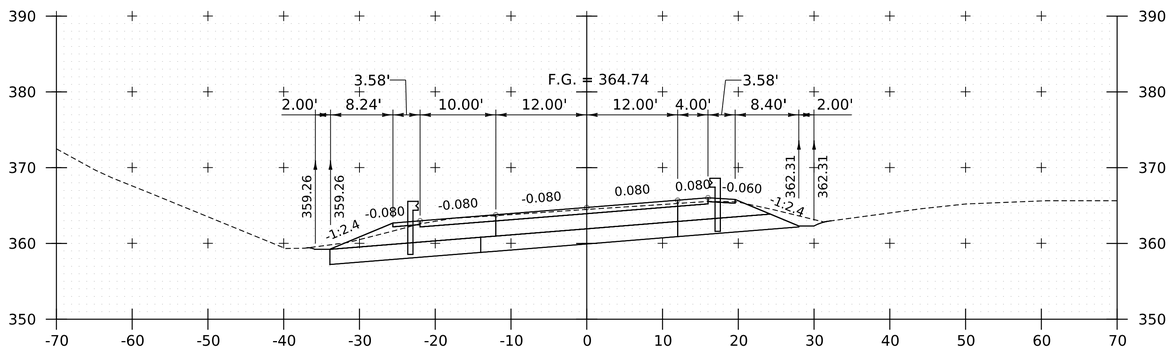
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs-I-91_SB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 SB CROSS SECTIONS 32		SHEET	557 OF 922



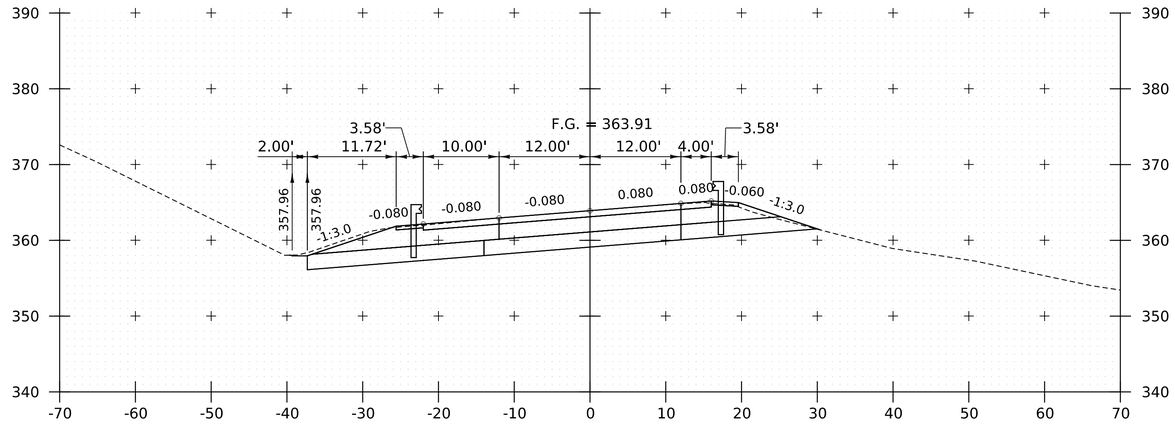
12202+75



12202+50



12202+25



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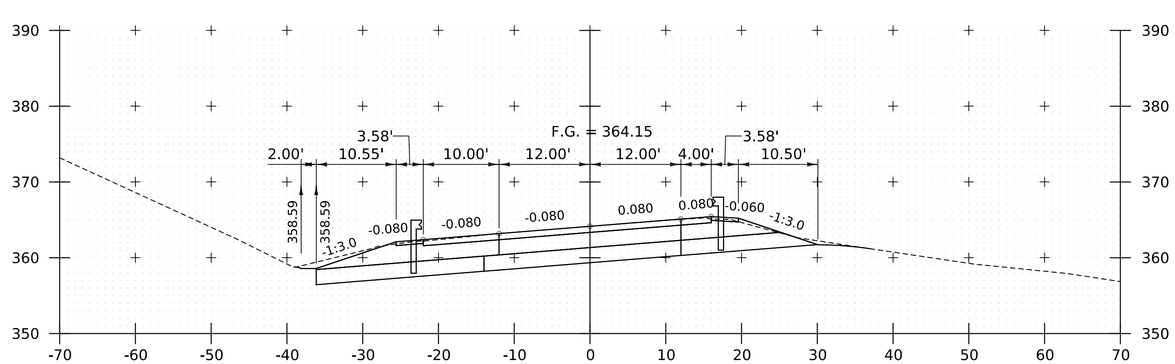
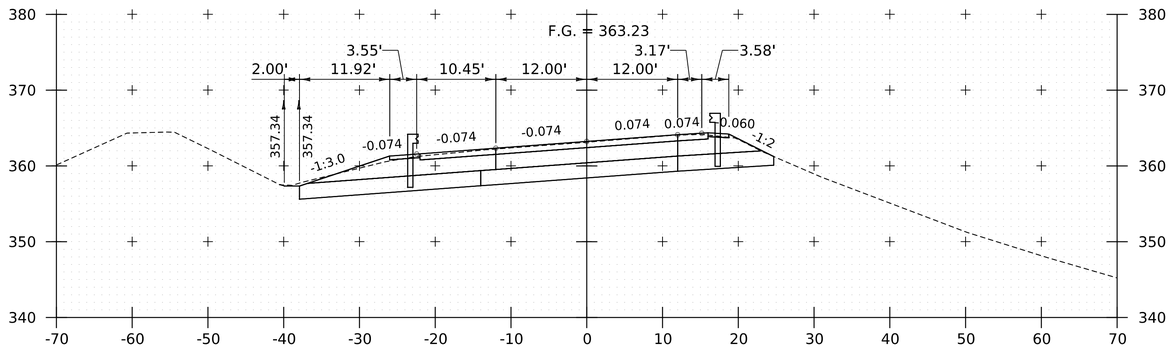


12203+00

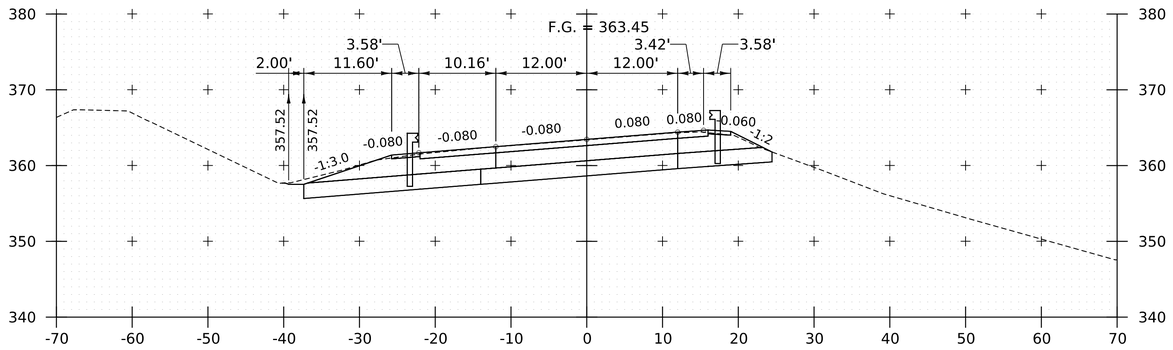
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs-I-91_SB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 33	SHEET 558 OF 922



12204+00



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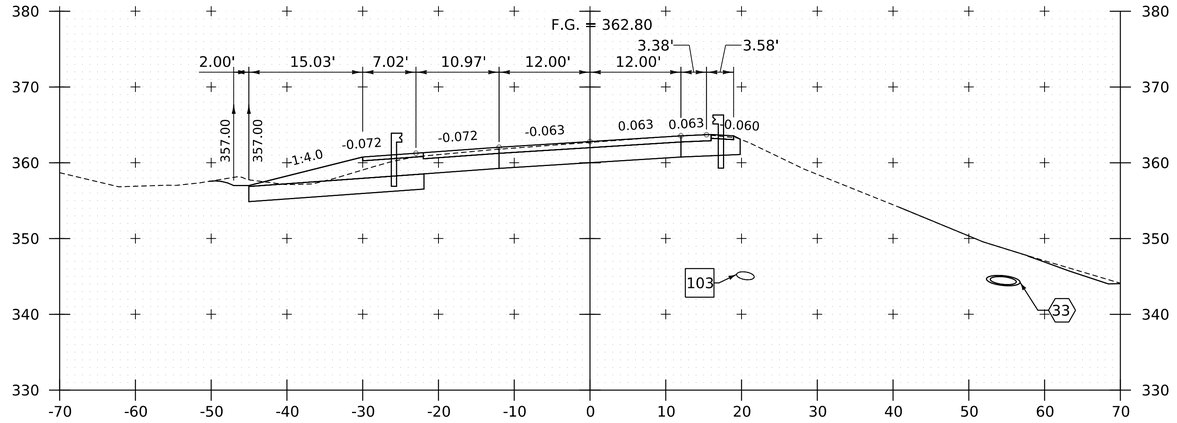
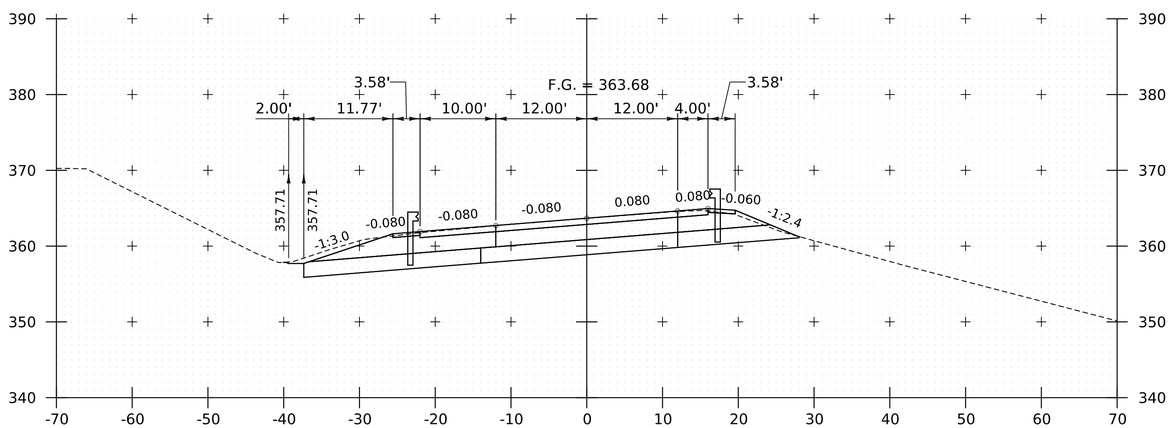


12204+50

END I-91 SOUTHBOUND PROJECT



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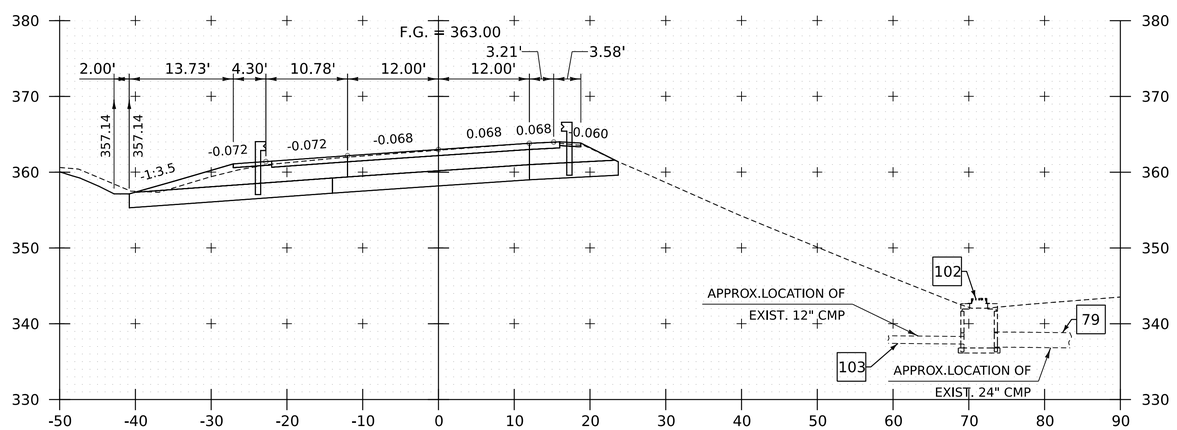
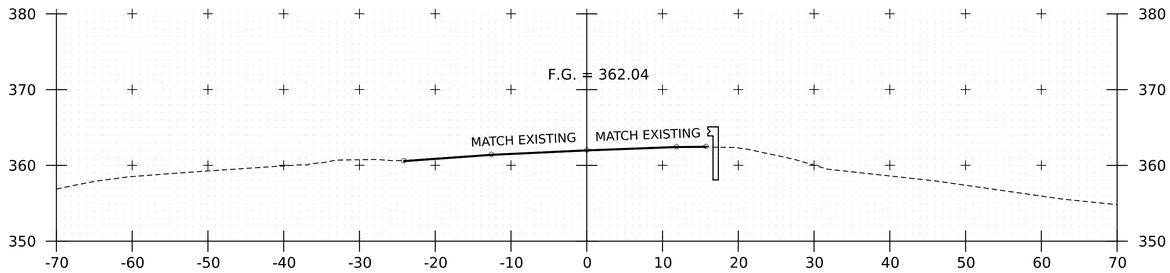


12204+27

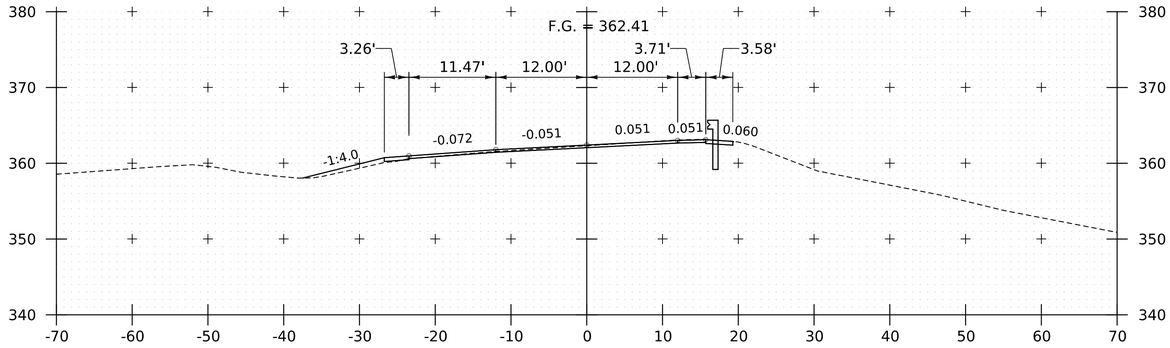
NOTE:
1. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

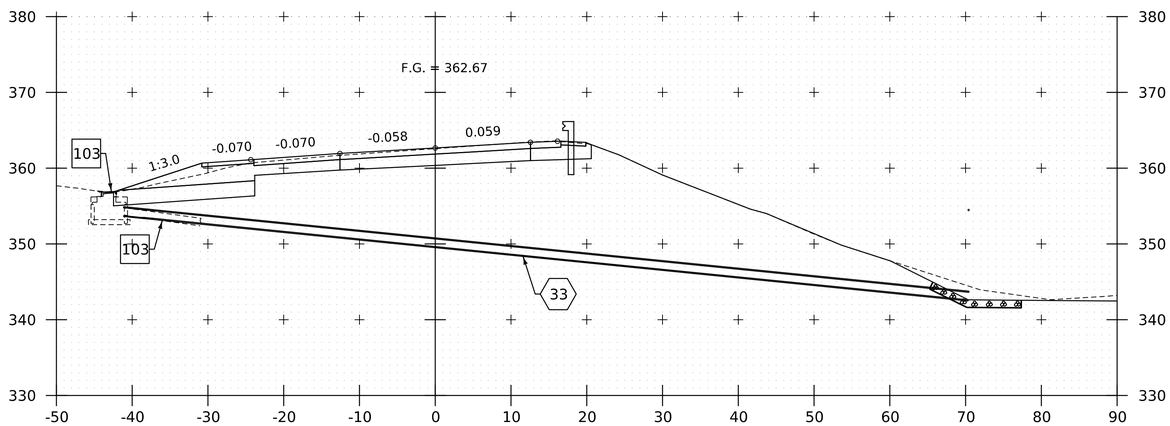
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs-I-91_SB_28.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 SB CROSS SECTIONS 34	SHEET 559 OF 922



12205+50

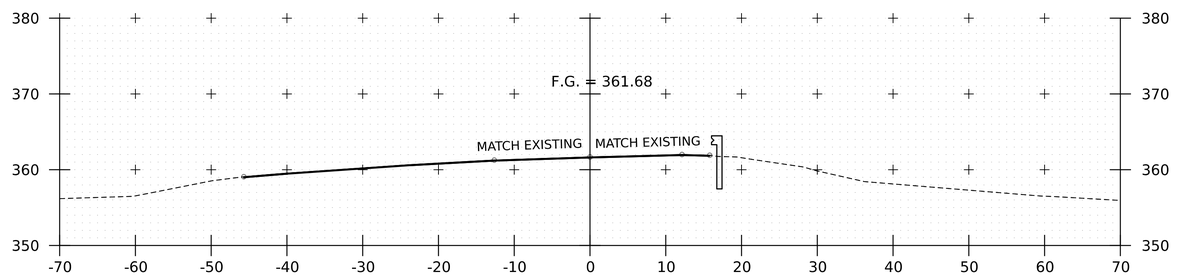


12205+00



12204+67 (SKEWED ALONG PIPE)

12217+00
END APPROACH

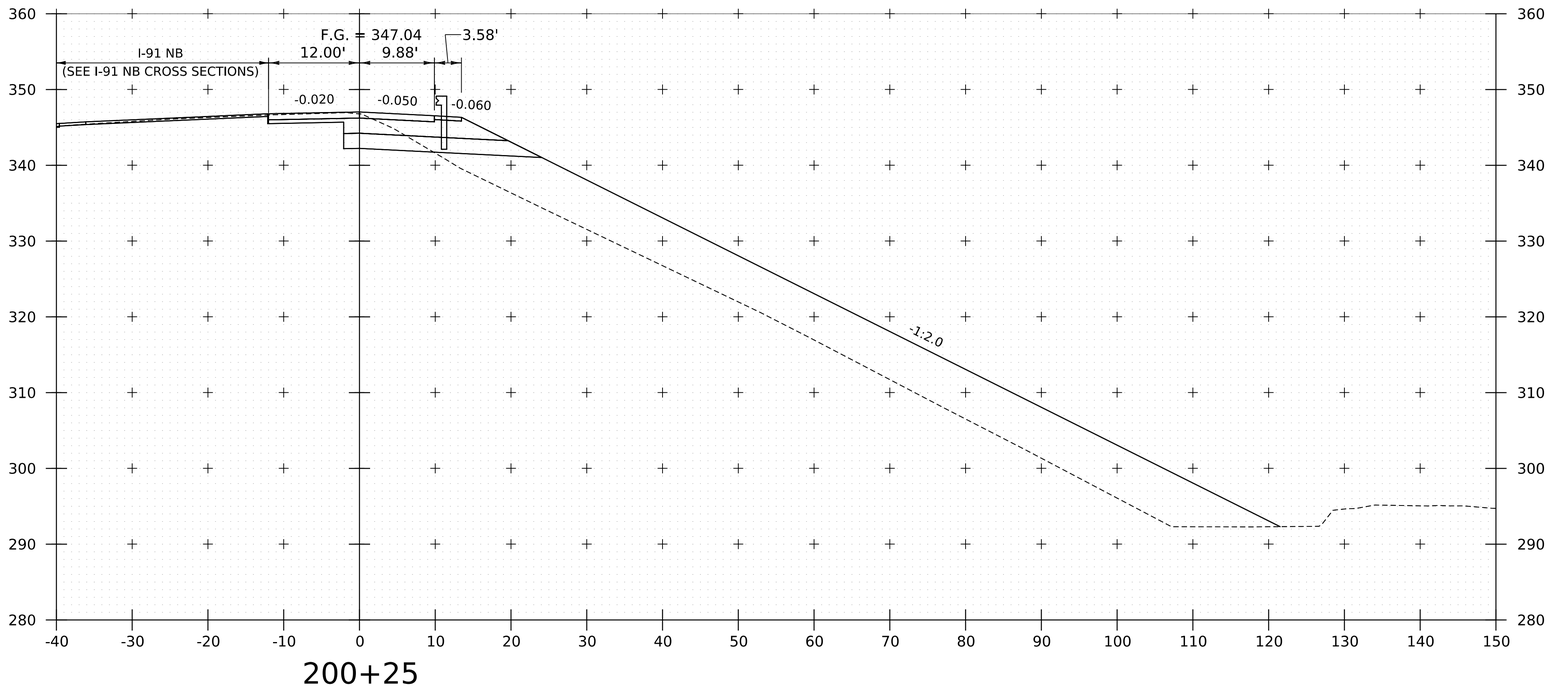


12206+00

NOTE:
1. REFER TO TYPICAL SECTIONS FOR MILL AND FILL AREA BETWEEN STA. 12206+00 AND 12217+00.
2. CROSS SECTIONS SHOWN AT 25' INTERVAL FOR FULL DEPTH CONSTRUCTION AREAS, ALL OTHER AREAS SHOWN AT 50' INTERVAL FOR I-91 SB.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs-I-91_SB_28.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 SB CROSS SECTIONS 35		SHEET	560 OF 922



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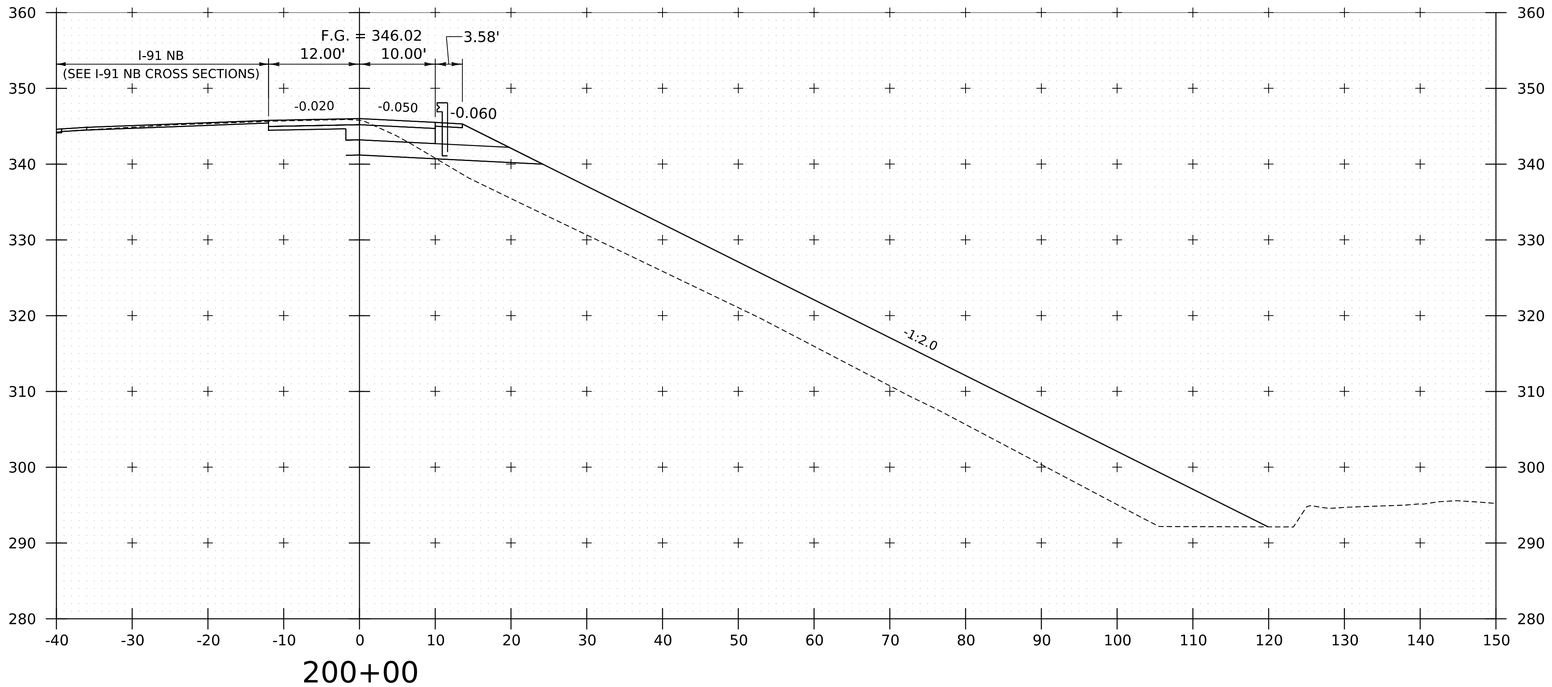
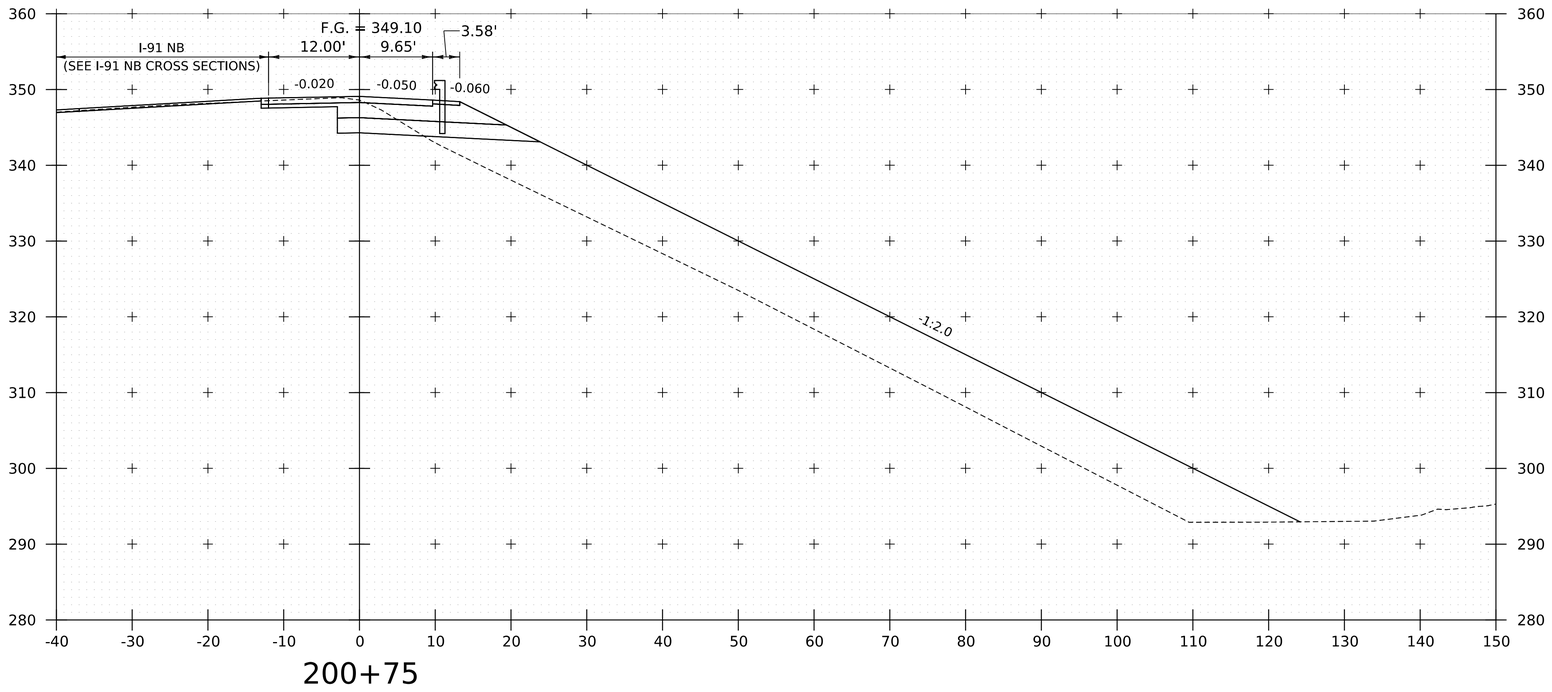


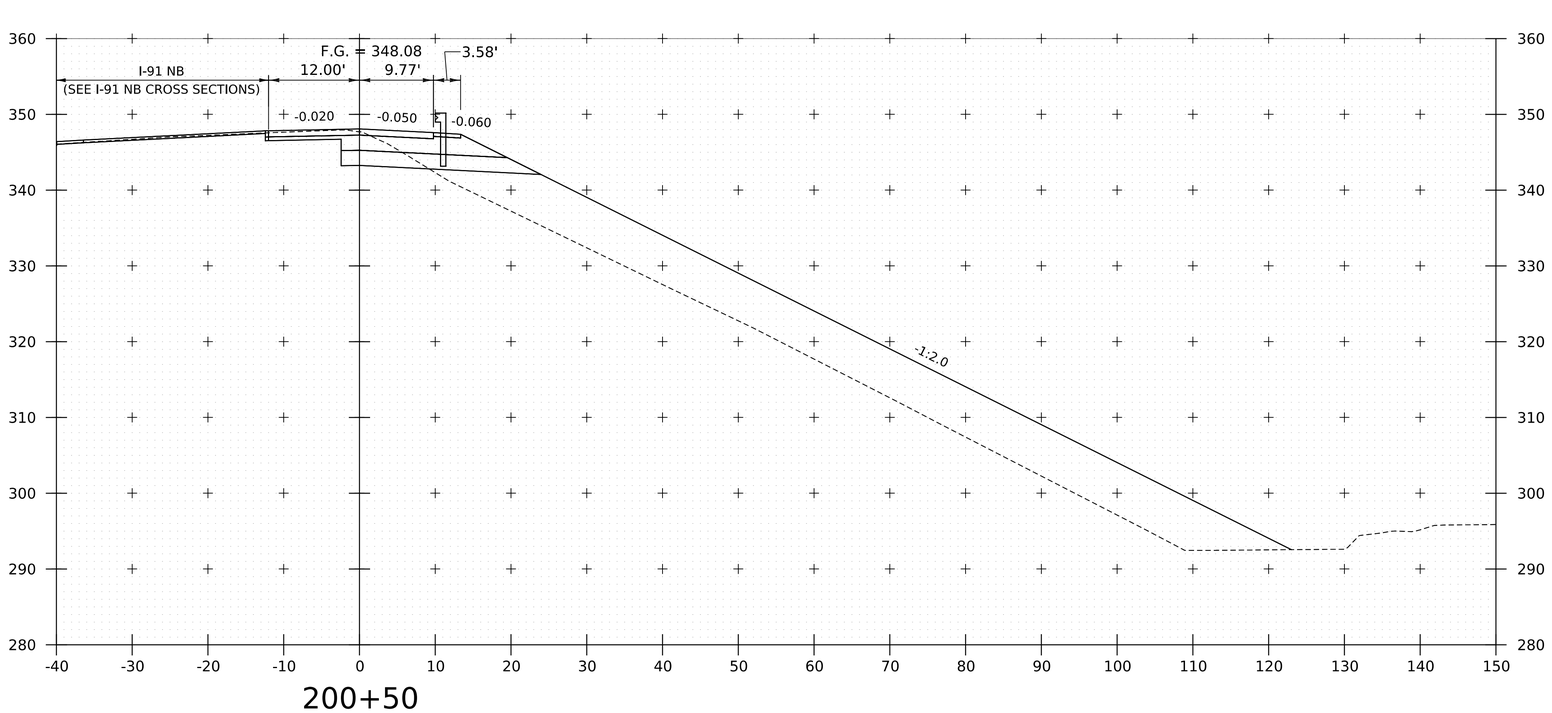
200+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 1		SHEET	561 OF 922

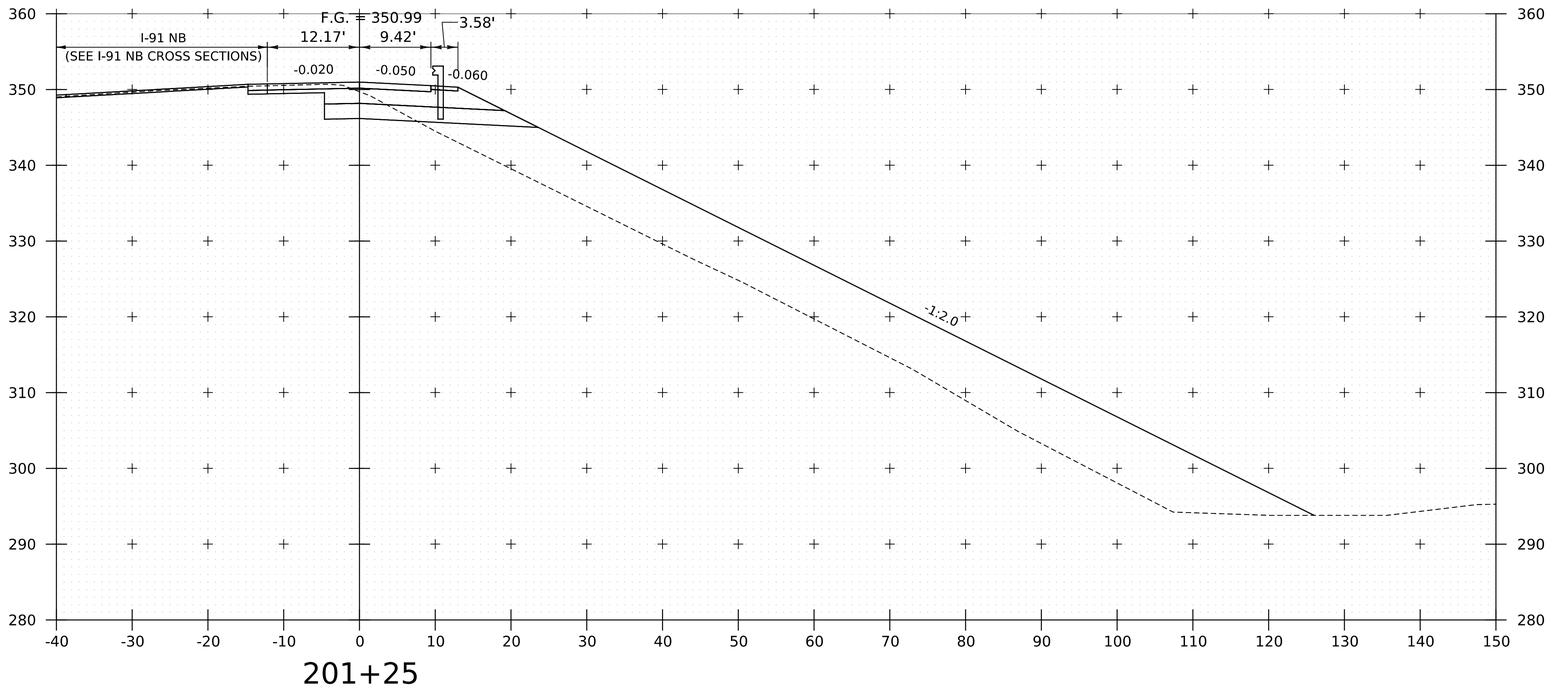
HNTB



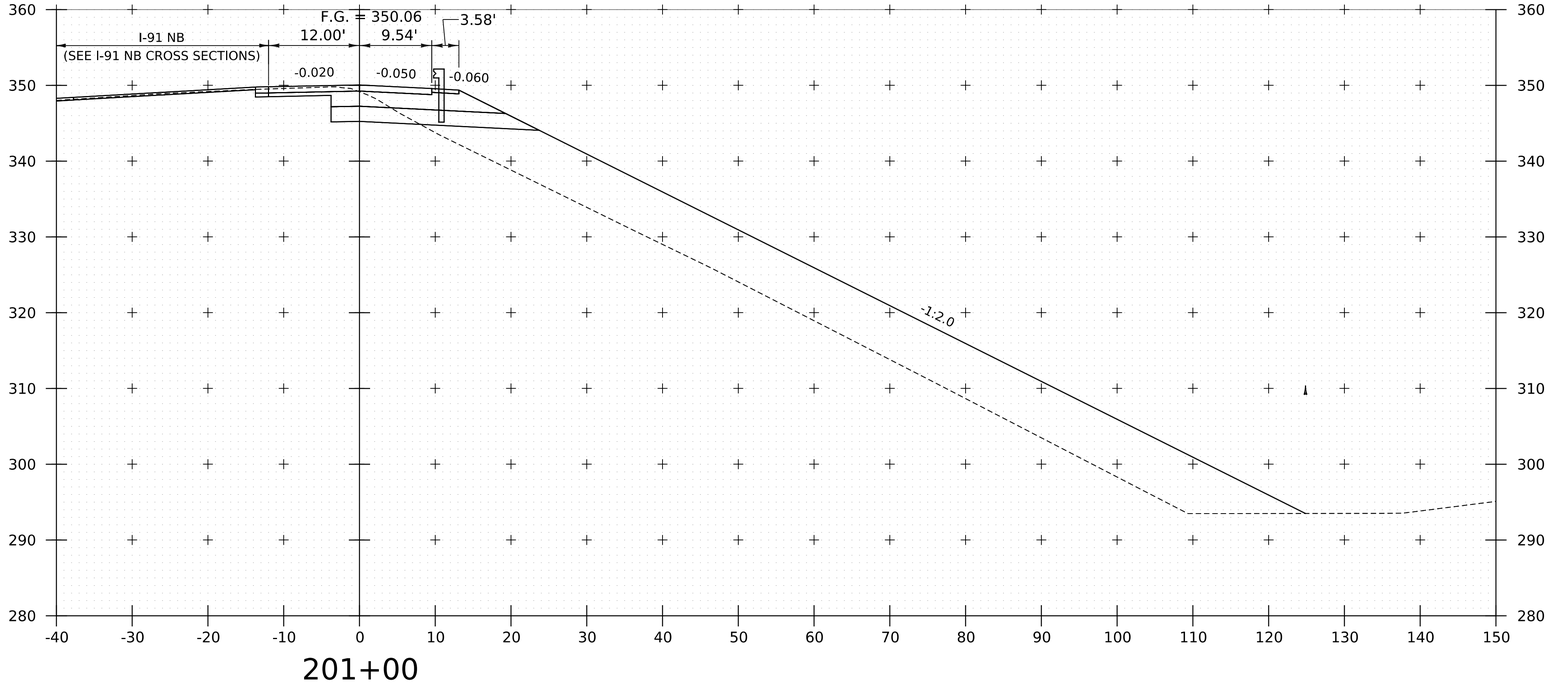


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 2		SHEET	562 OF 922



201+25

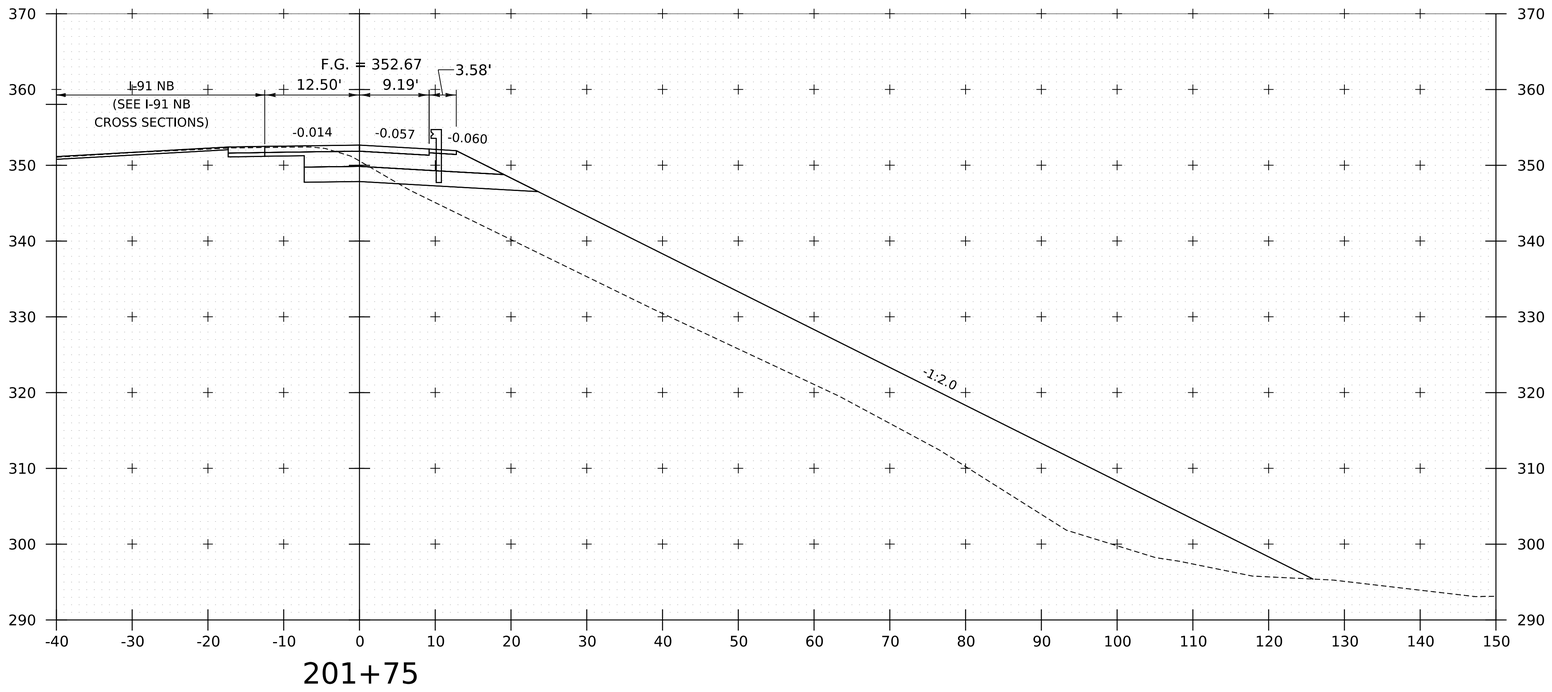


201+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 3		SHEET	563 OF 922

HNTB



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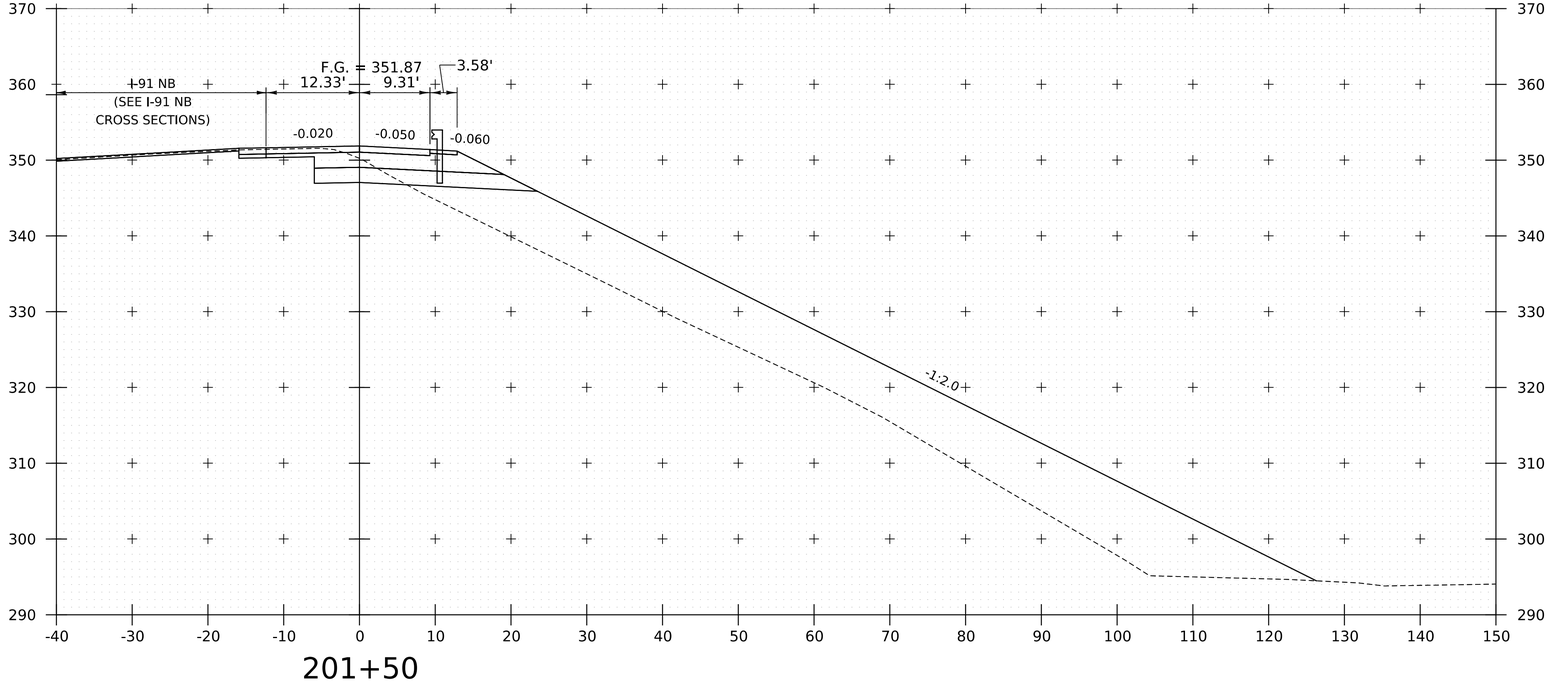
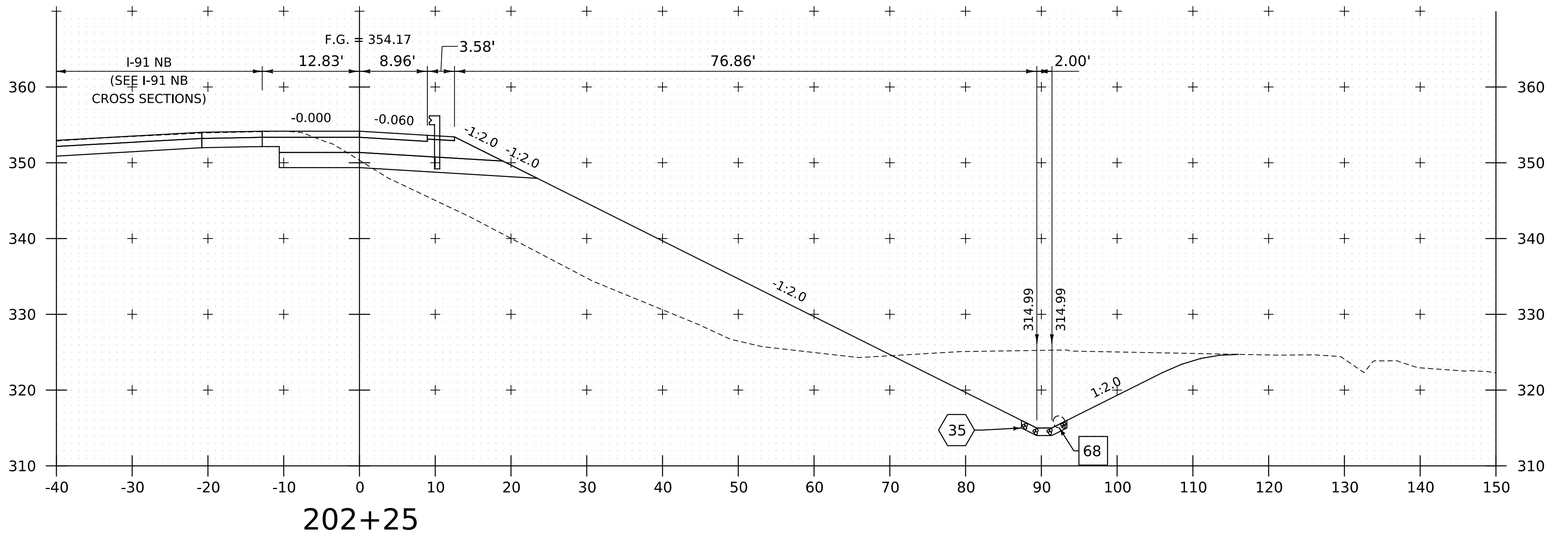


201+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 4		SHEET	564 OF 922

HNTB



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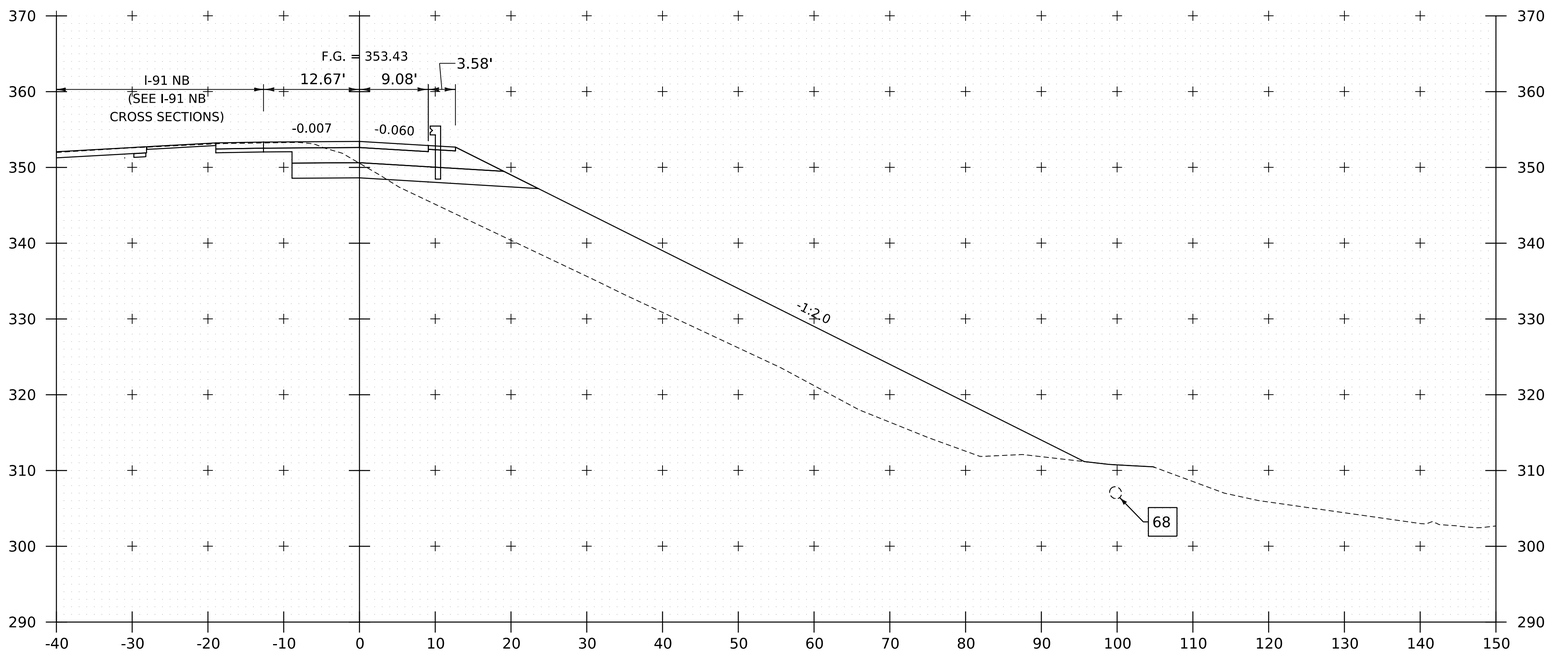
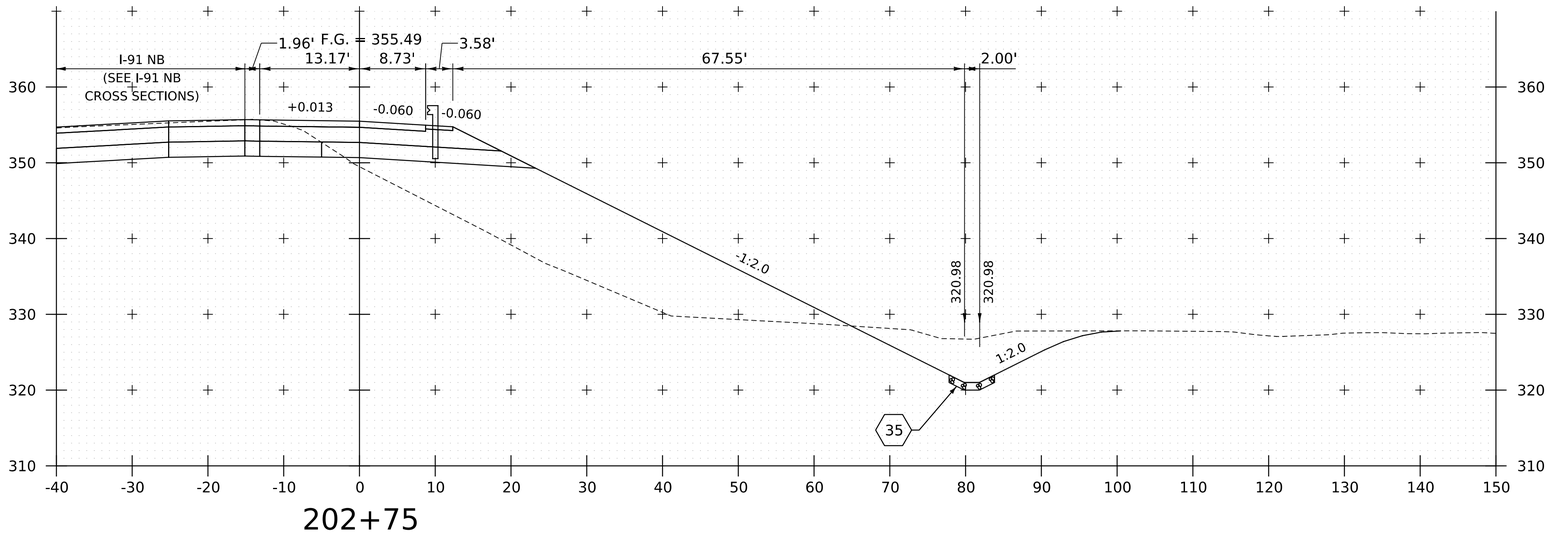


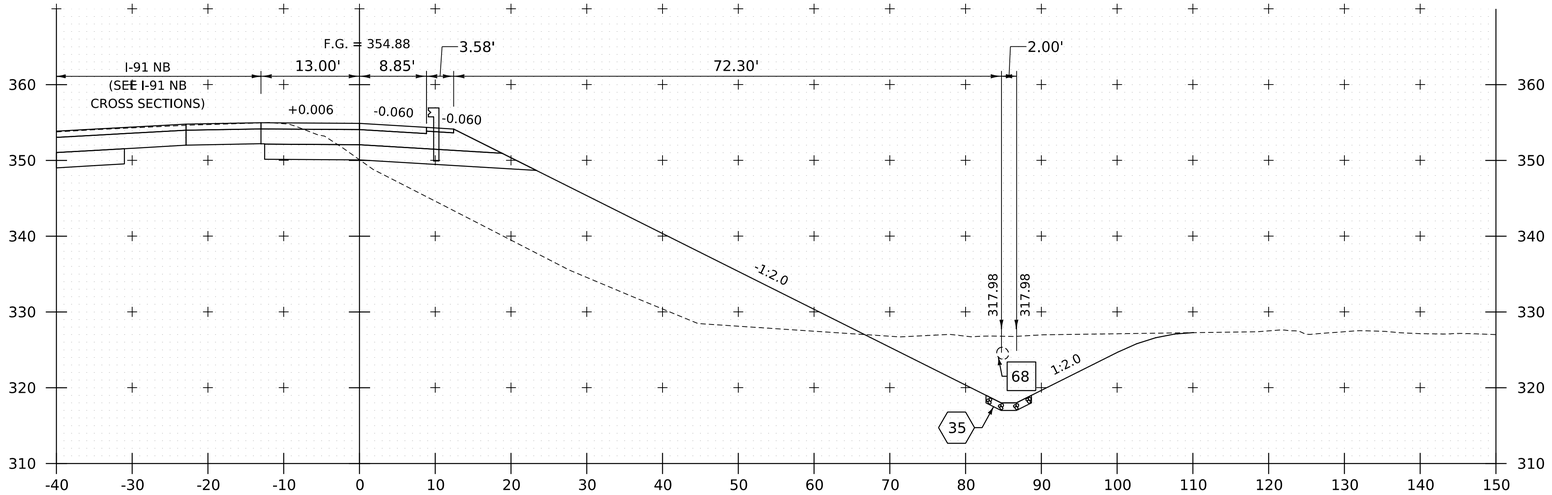
202+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 5		SHEET	565 OF 922



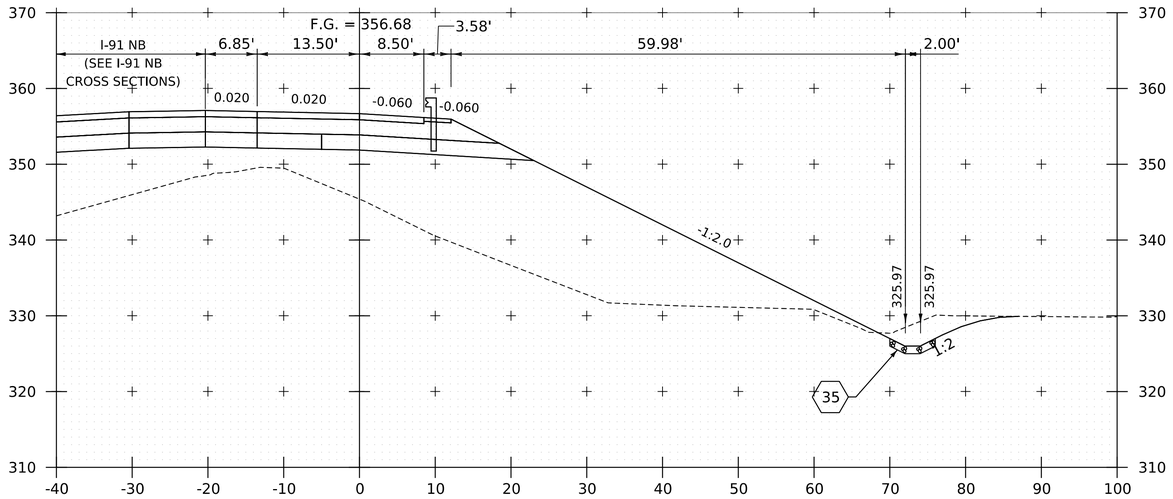
202+75



202+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 6		SHEET	566 OF 922



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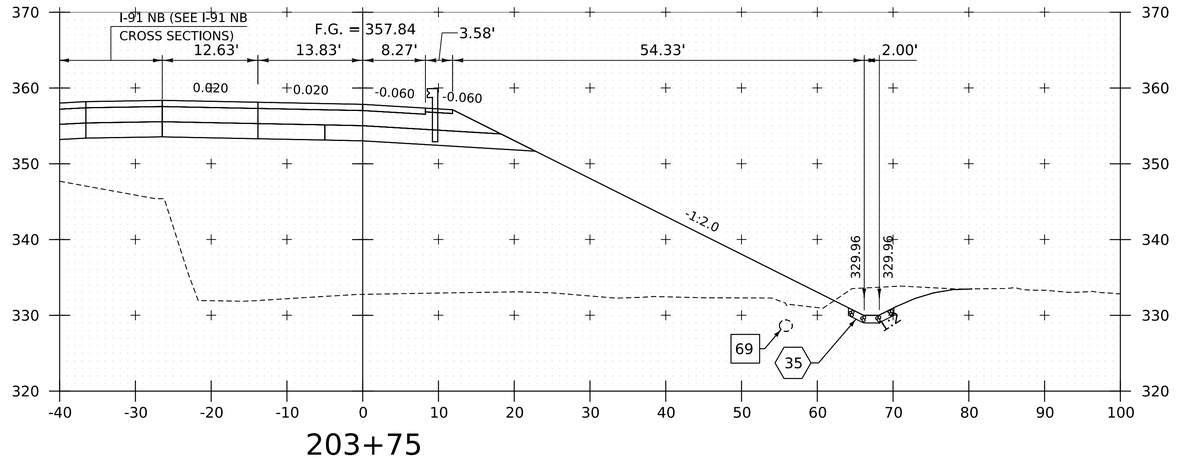

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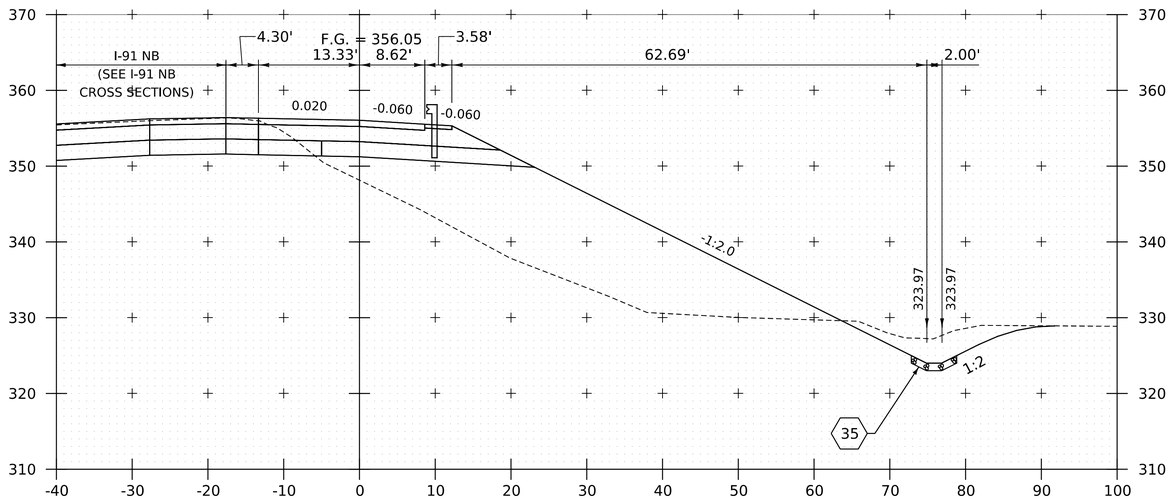
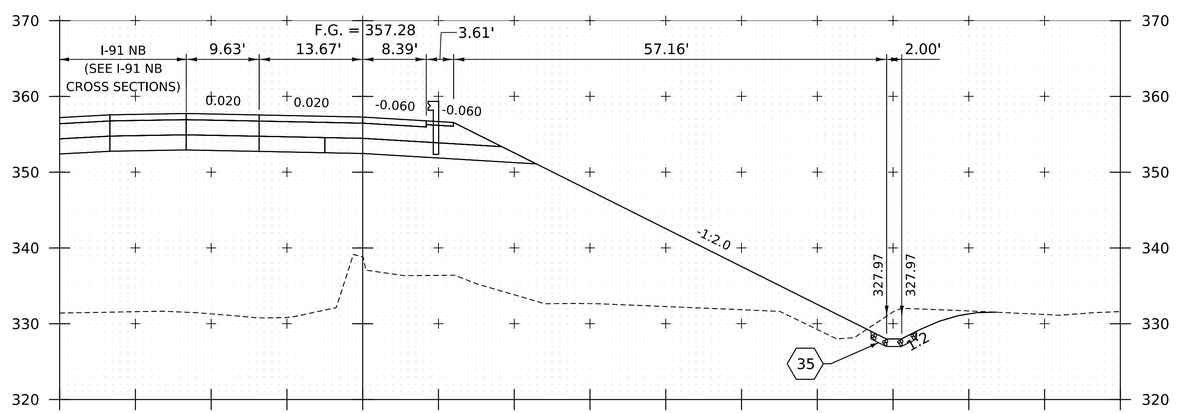


203+00

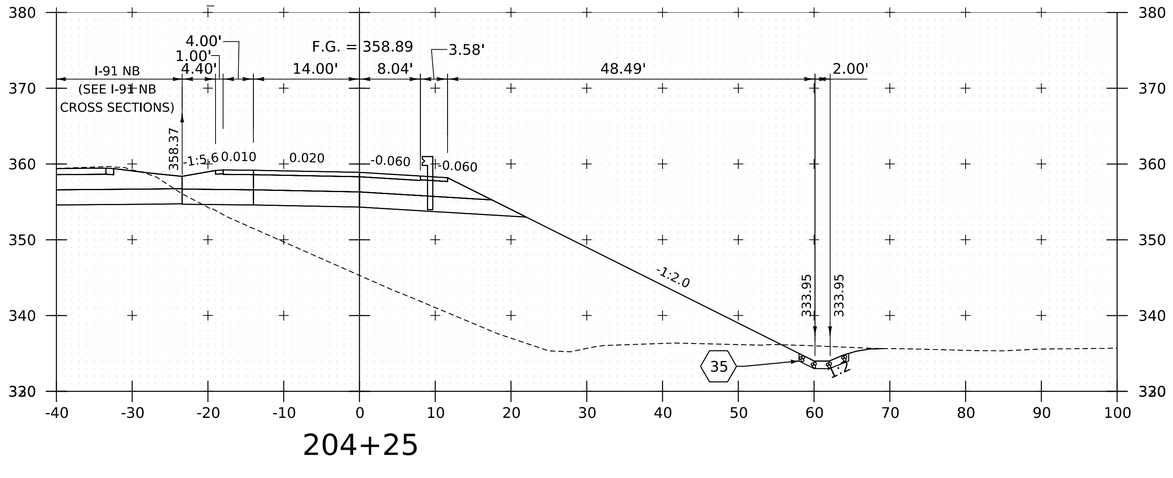


203+50

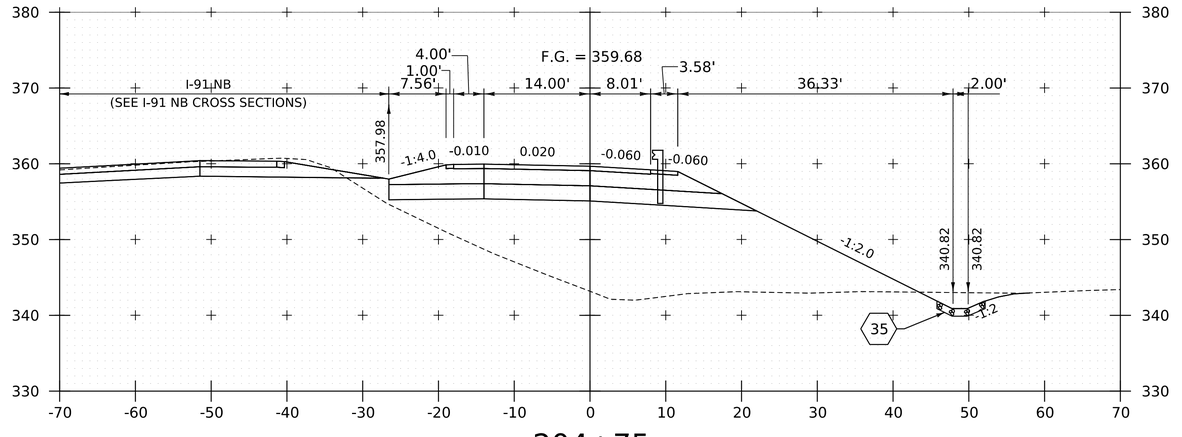
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 7		SHEET	567 OF 922

HNTB



204+25



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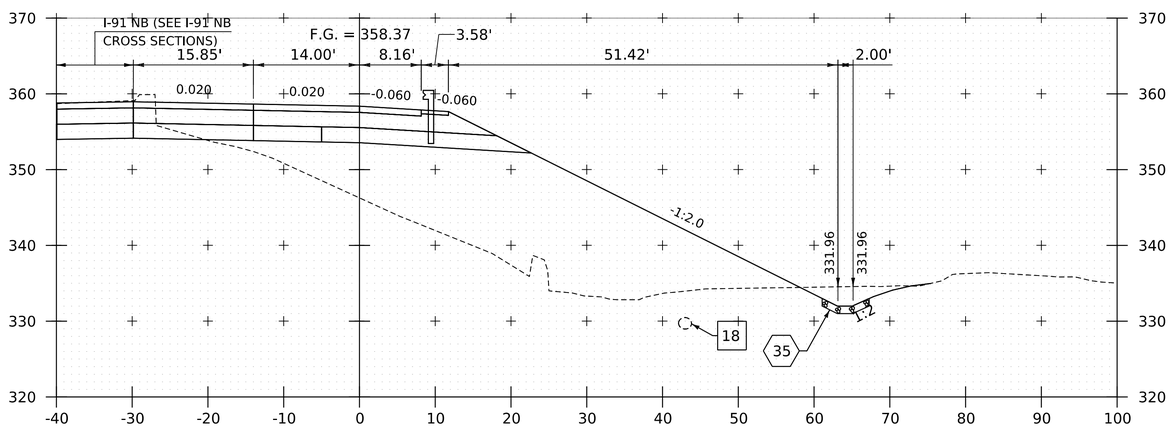
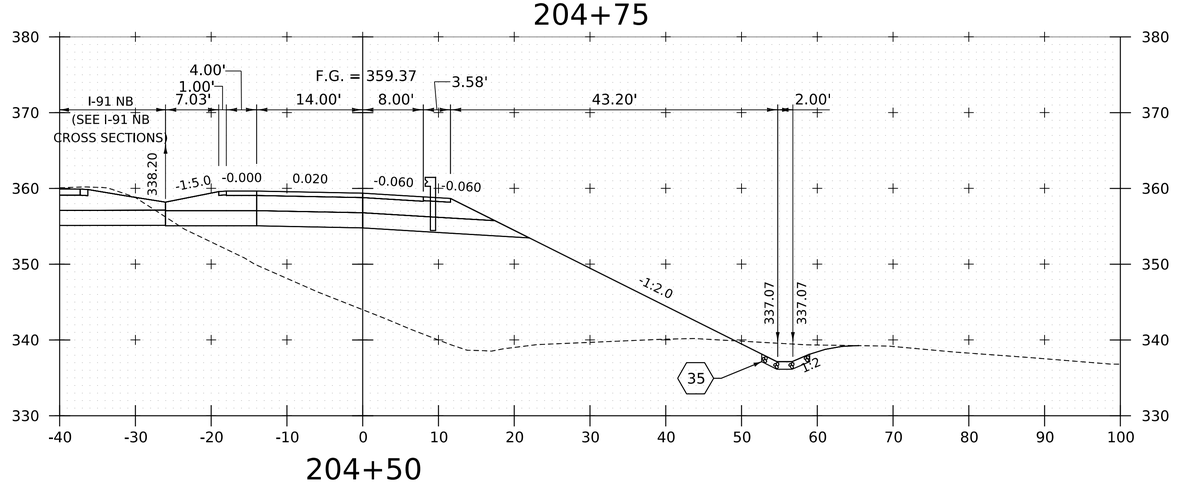


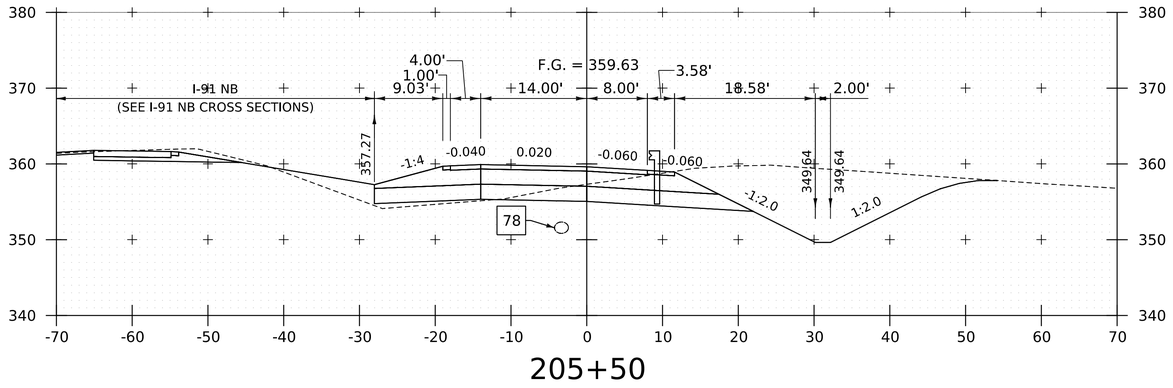
204+00



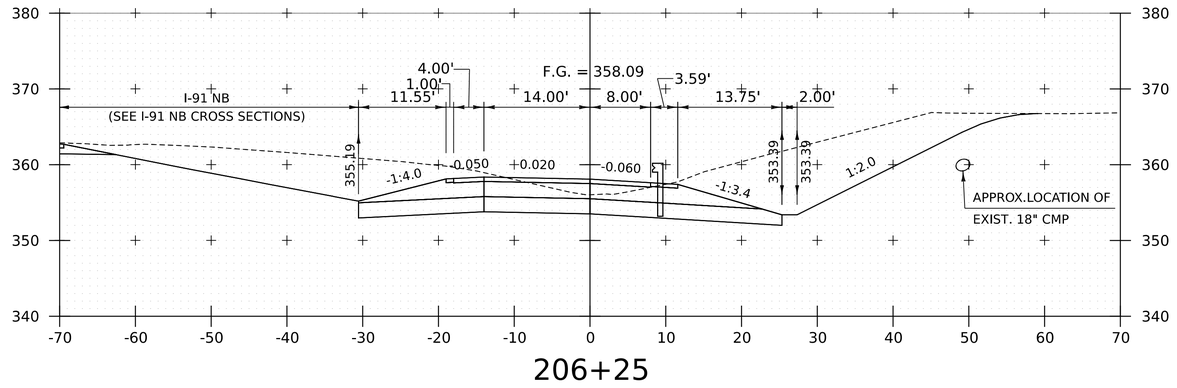
204+50

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 8		SHEET	568 OF 922



205+50



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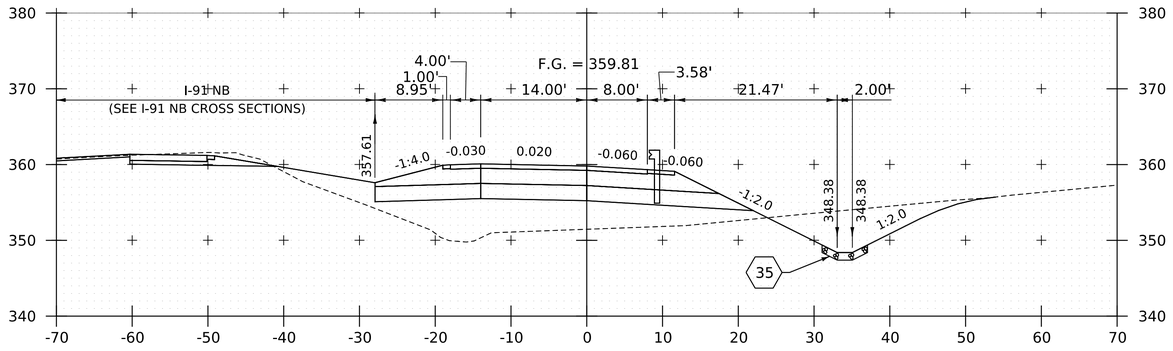

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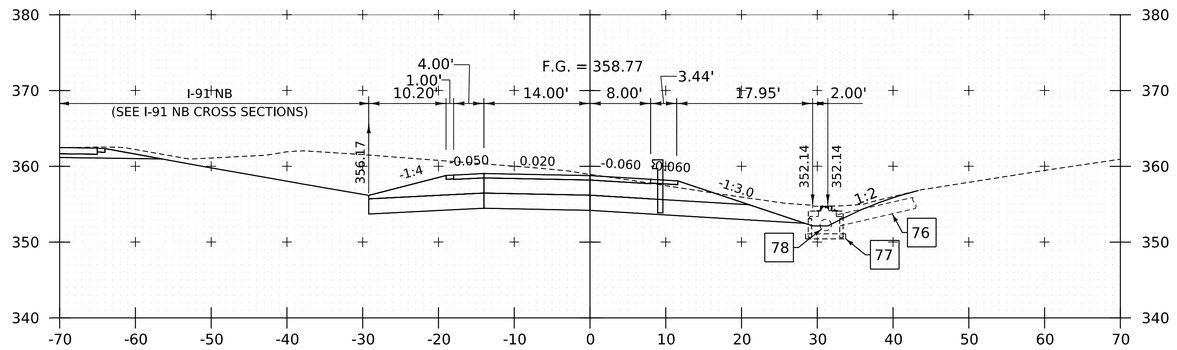
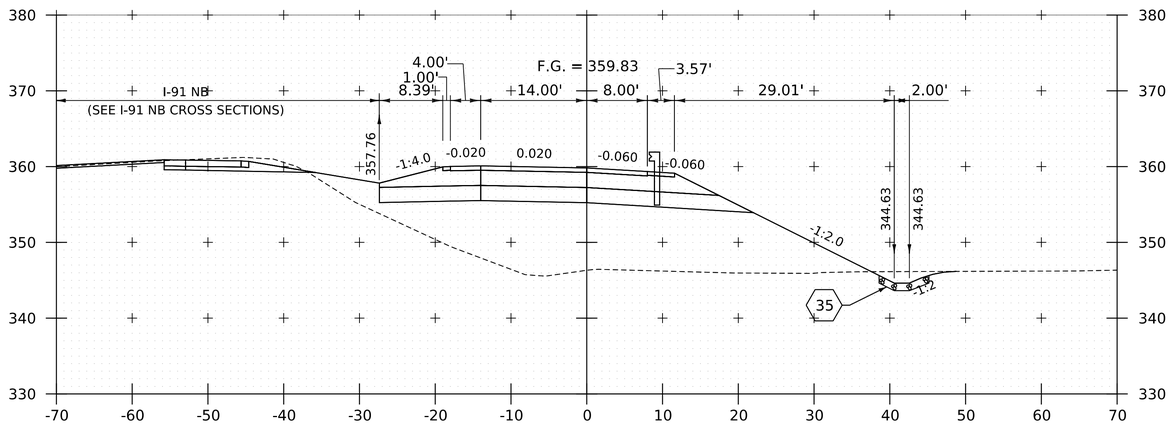
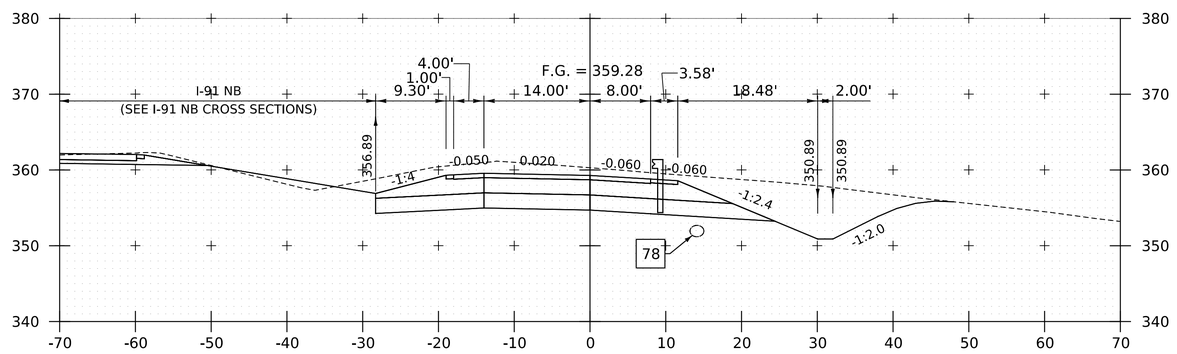


206+00



205+00

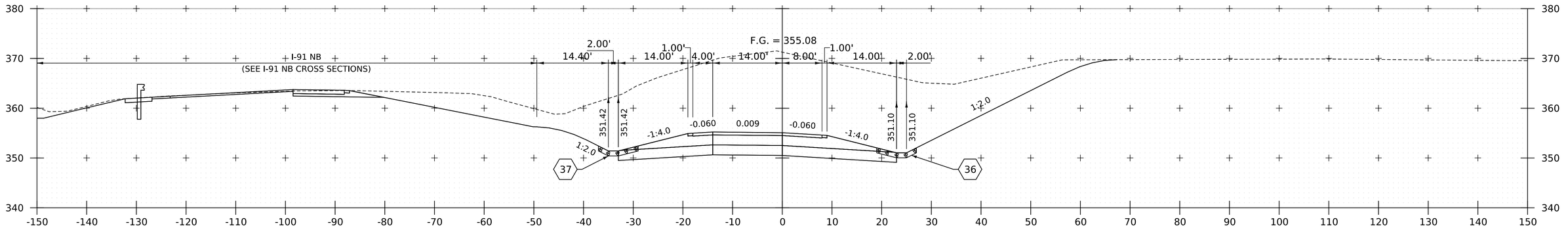


205+75

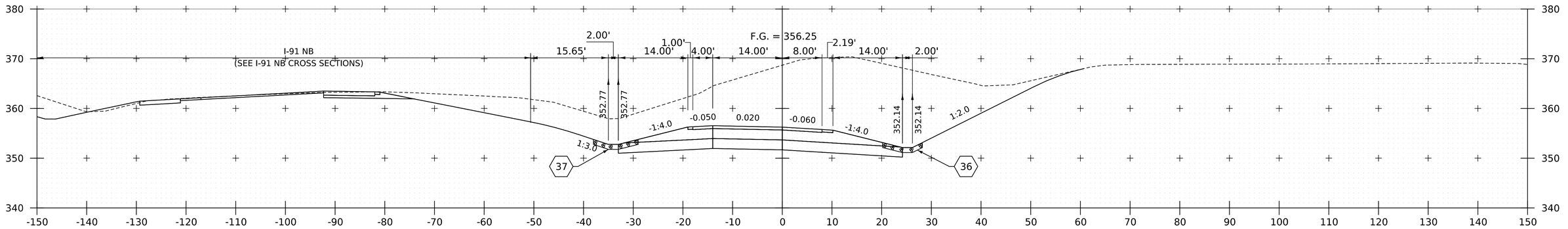
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 9		SHEET	569 OF 922

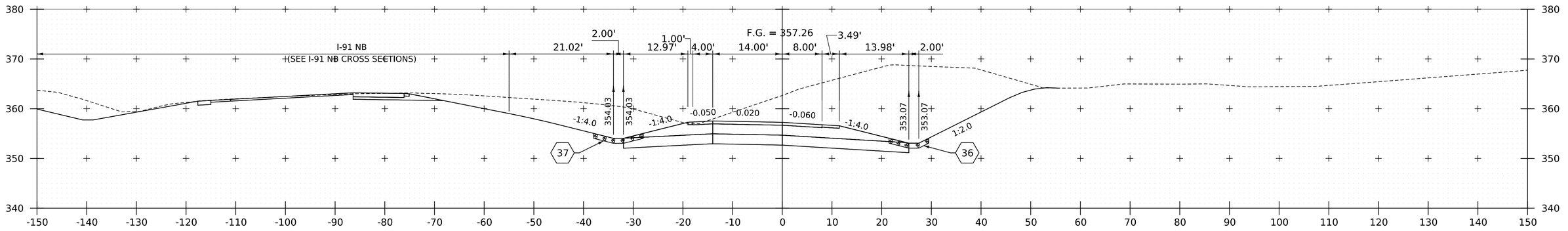
HNTB



207+00



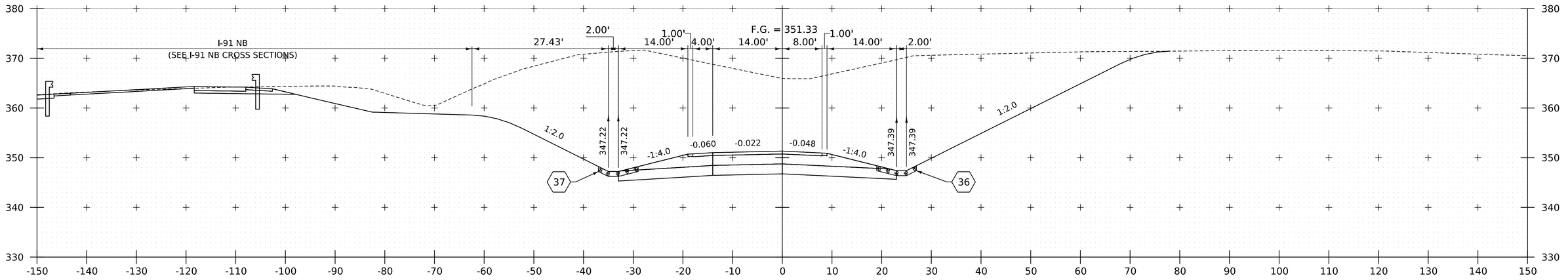
206+75



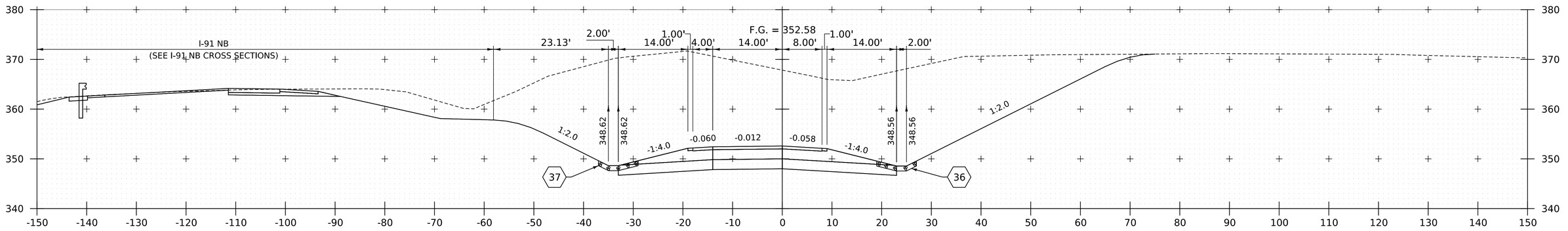
206+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 10	SHEET 570 OF 922

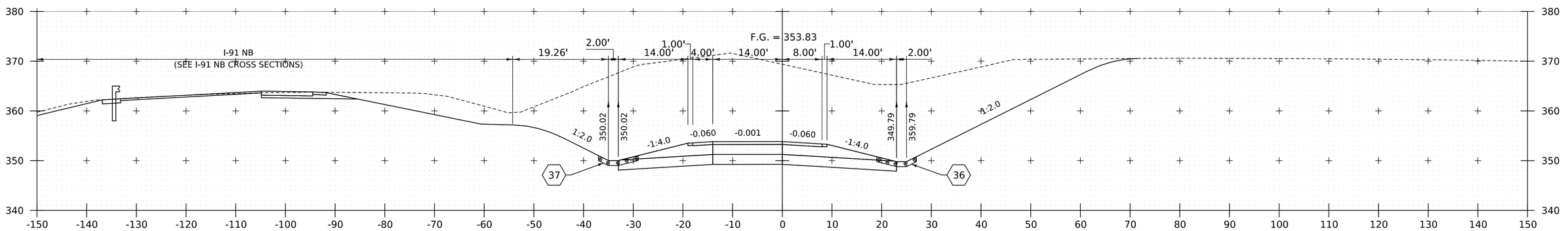
HNTB



207+75



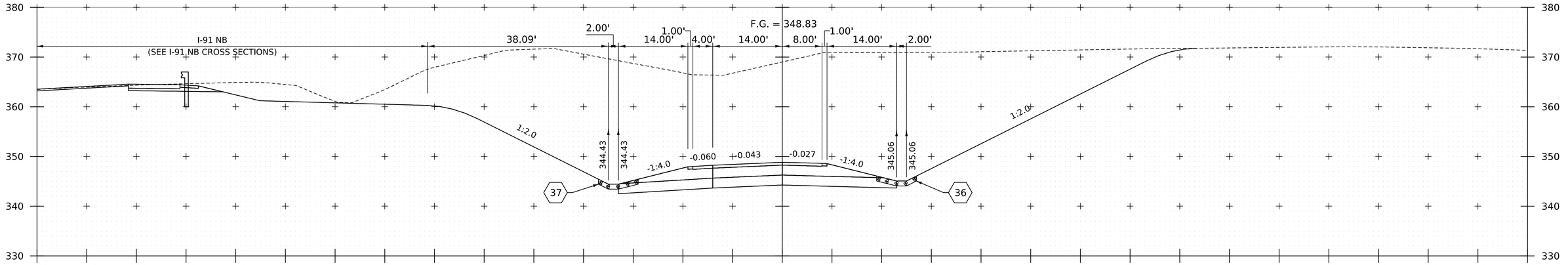
207+50



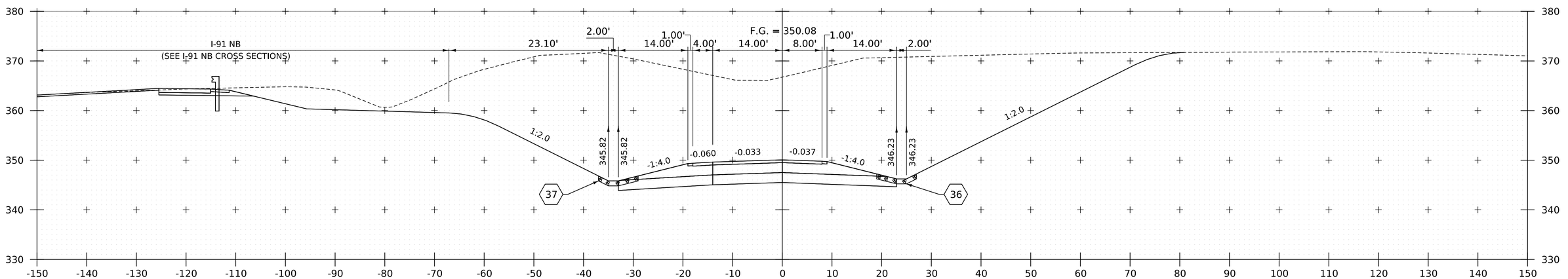
207+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 11	SHEET 571 OF 922

HNTB



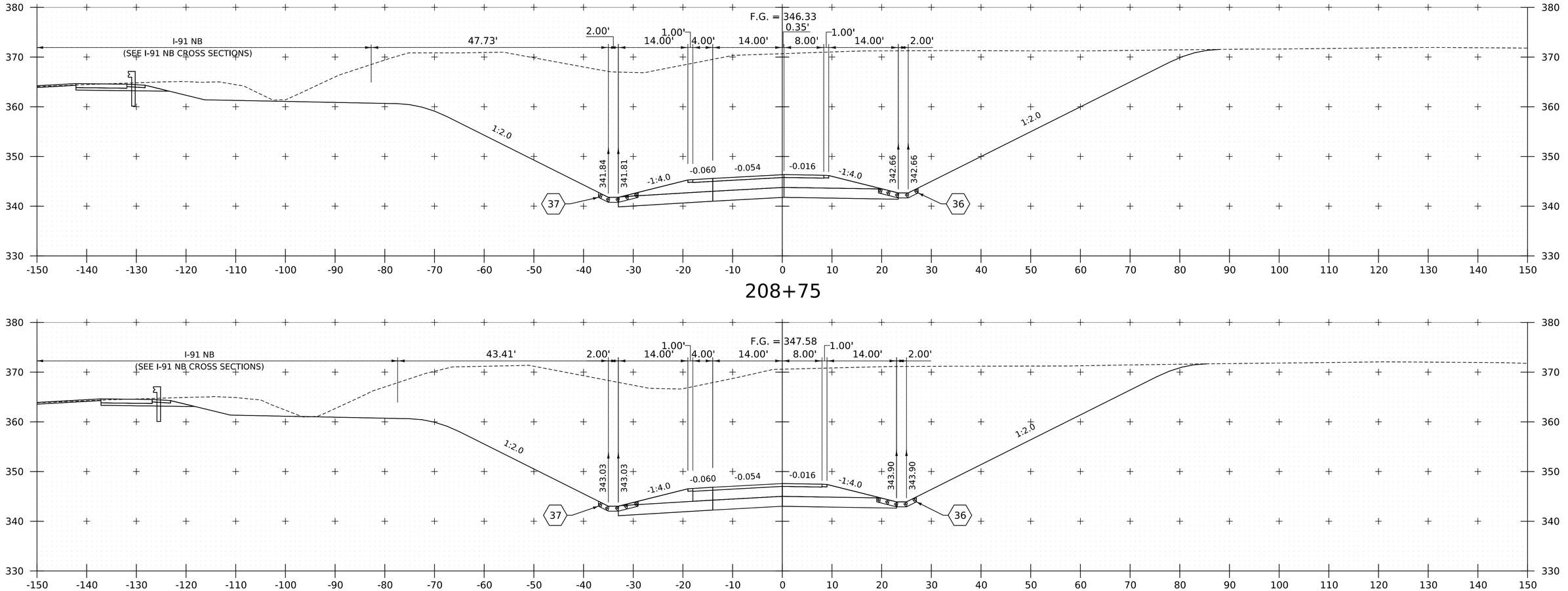
208+25



208+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

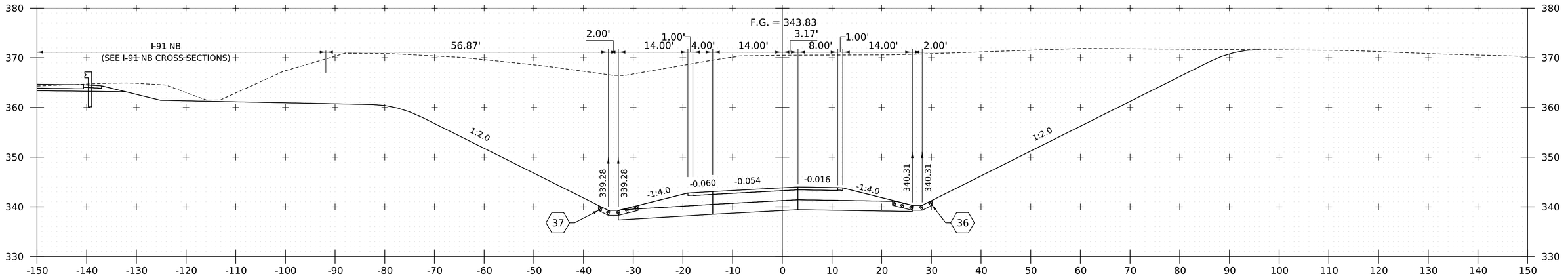
FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 12		SHEET	572 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 13		SHEET	573 OF 922

HNTB



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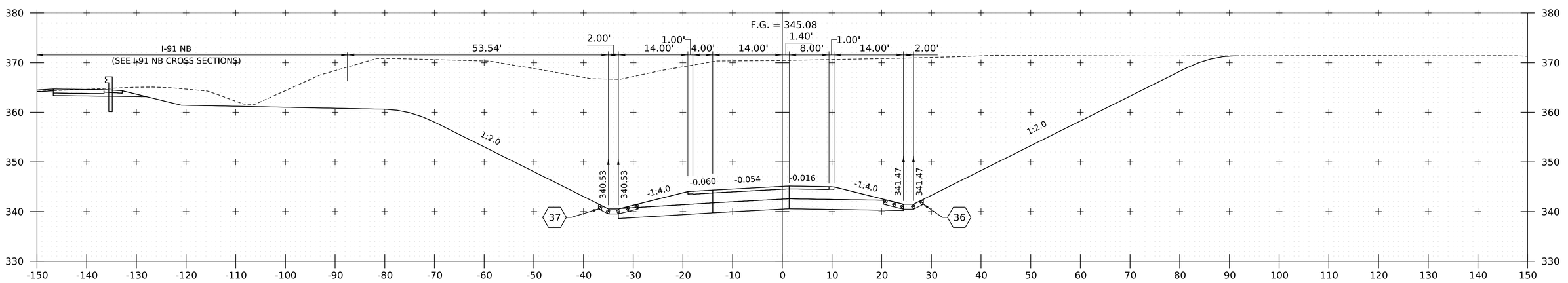

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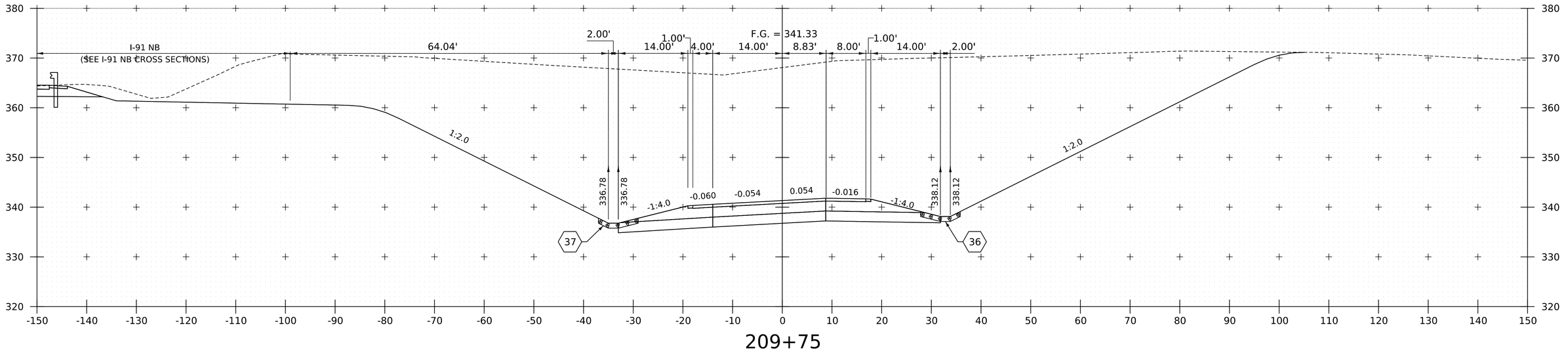
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 14		SHEET	574 OF 922

HNTB



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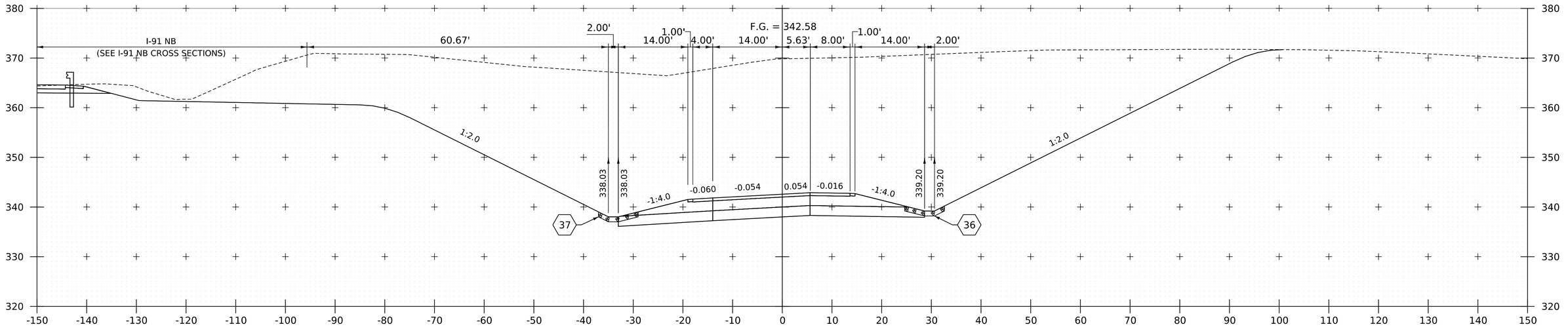
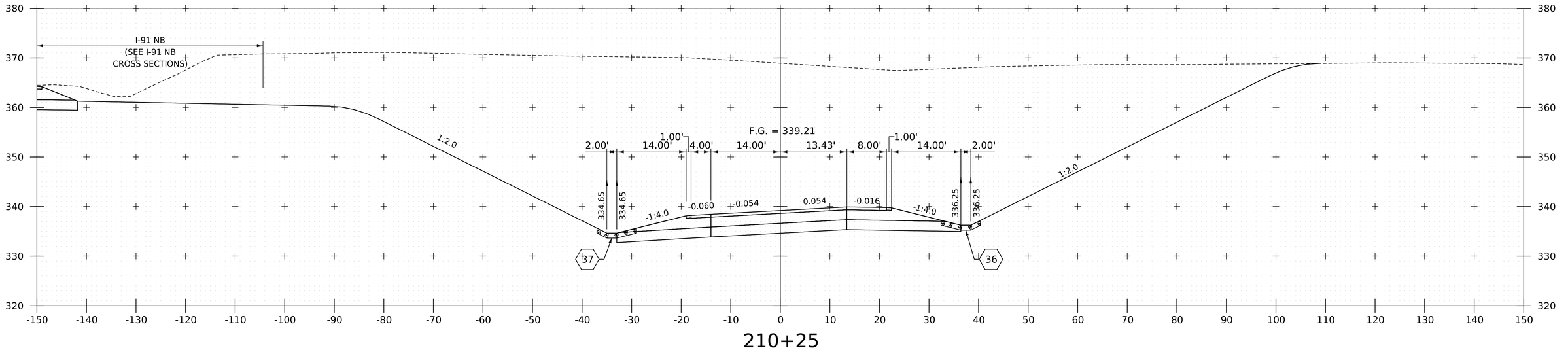
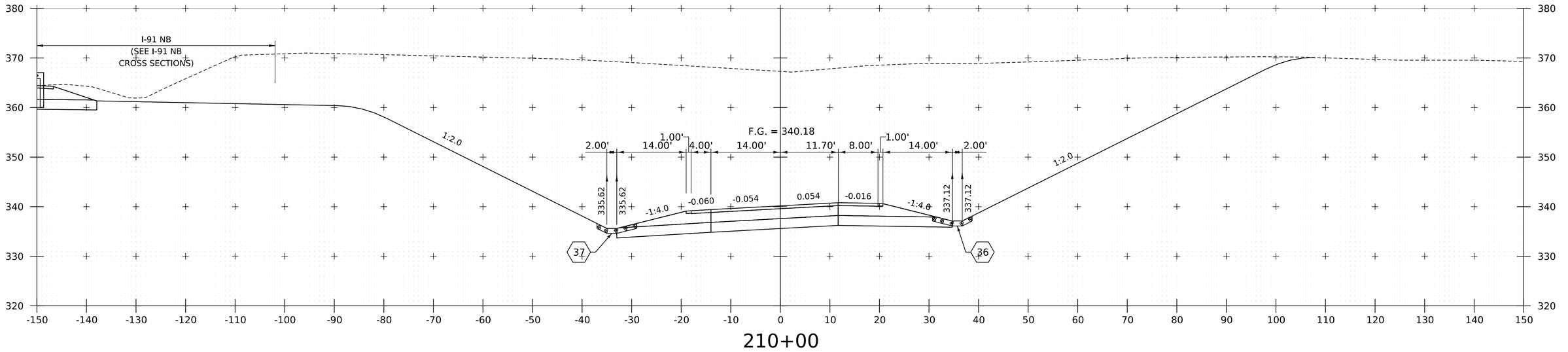


209+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 15	SHEET 575 OF 922

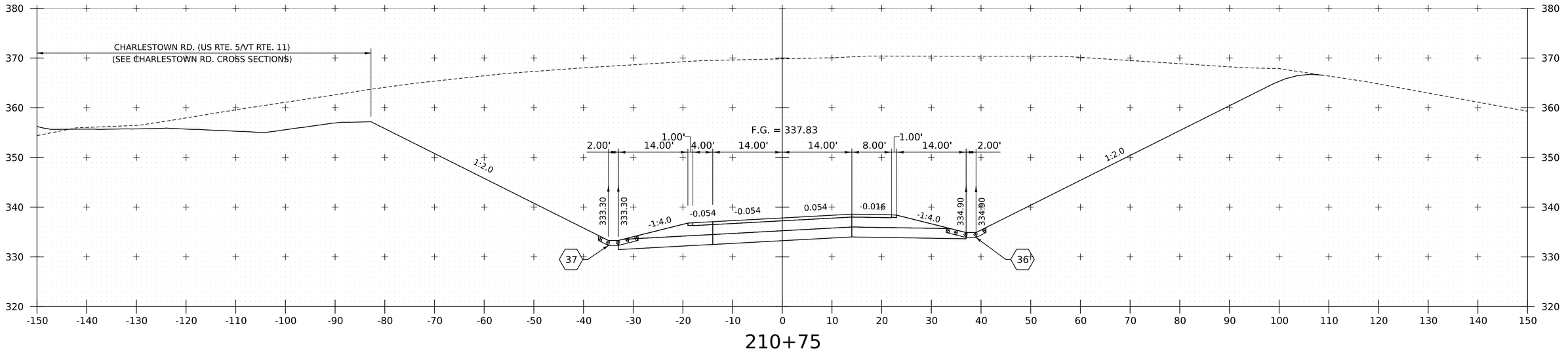
HNTB





PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 16	SHEET 576 OF 922

HNTB



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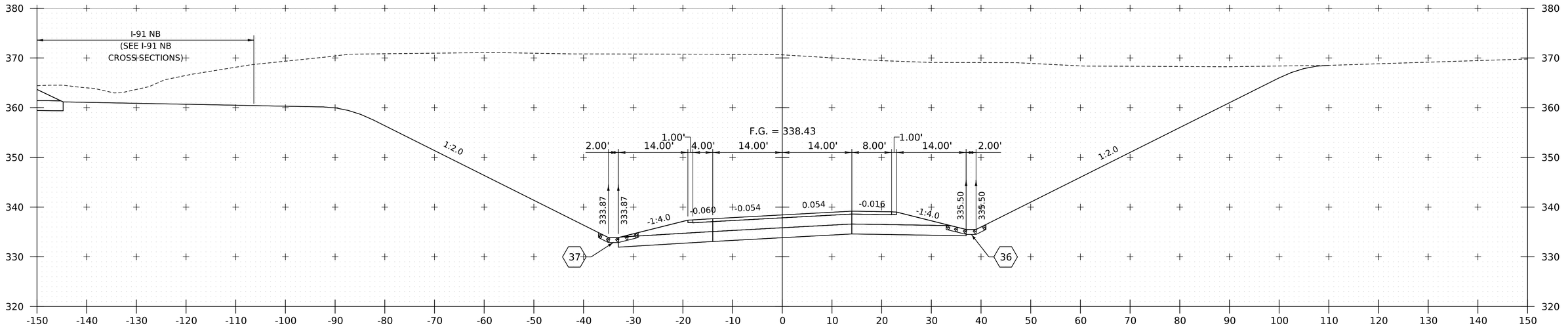

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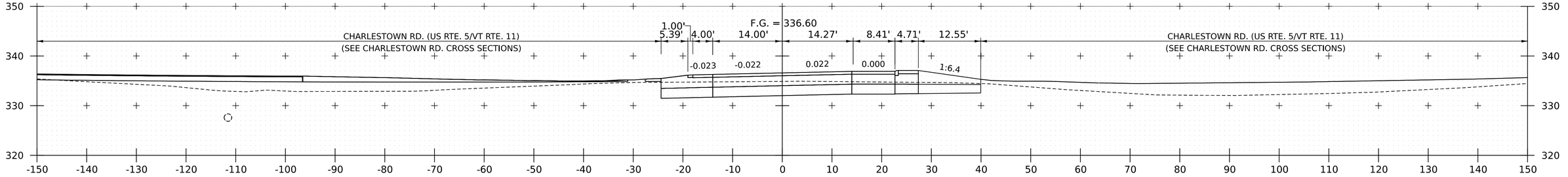
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 17	SHEET 577 OF 922

HNTB



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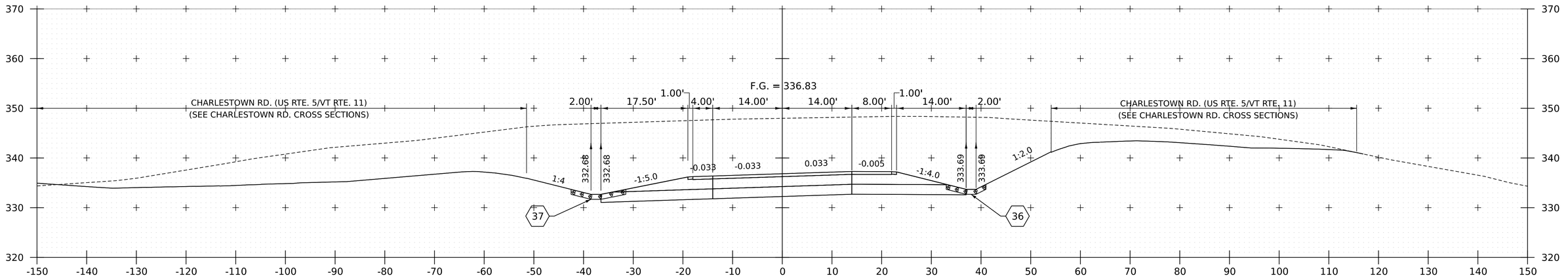

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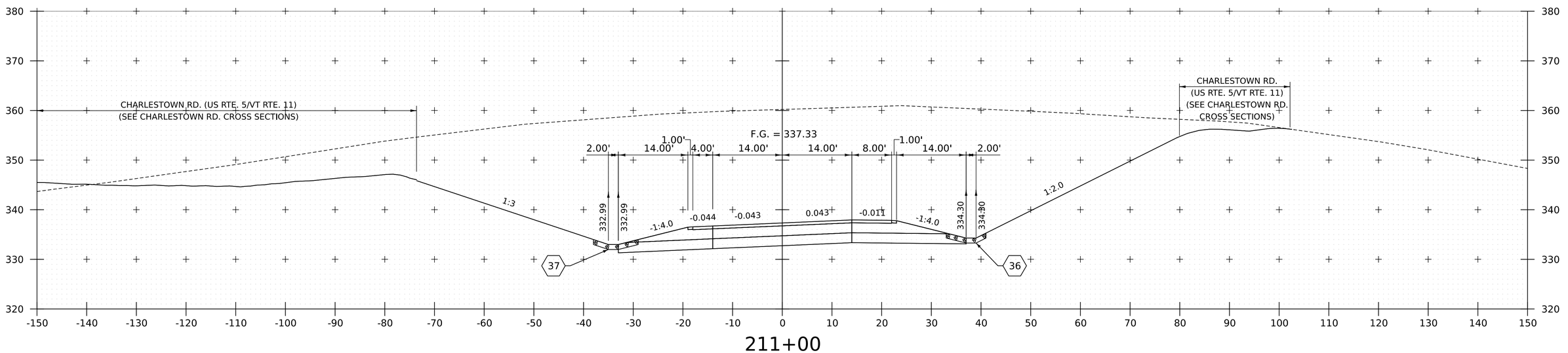
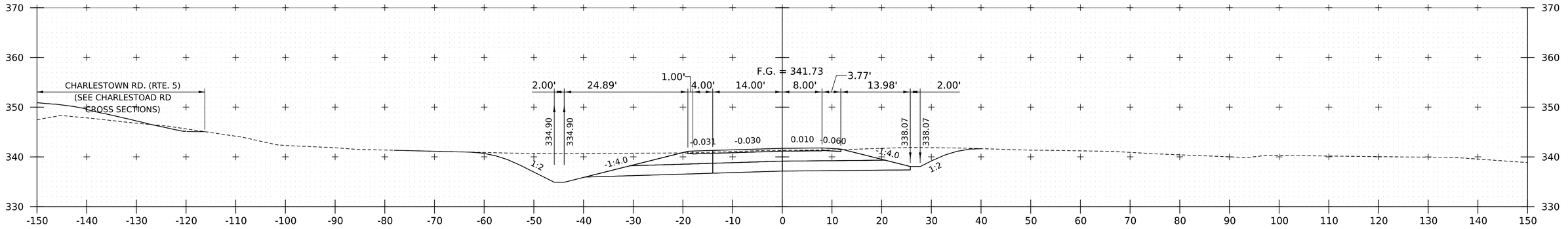


211+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I-91_NB_Off_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB OFF RAMP CROSS SECTIONS 18	SHEET 578 OF 922

HNTB



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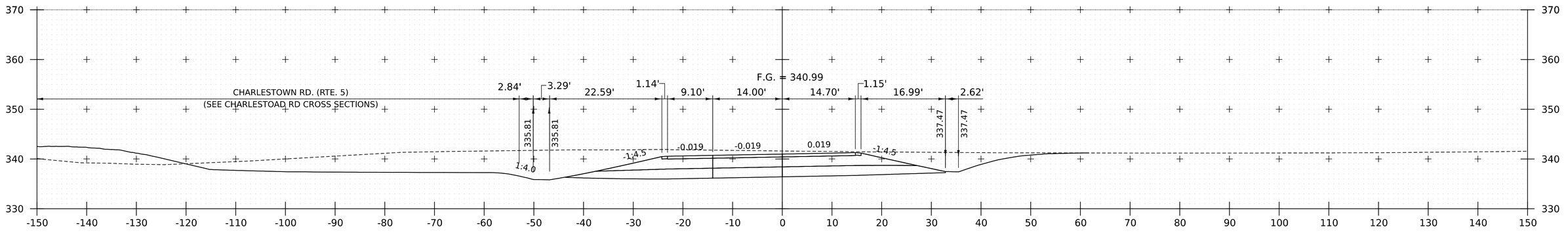
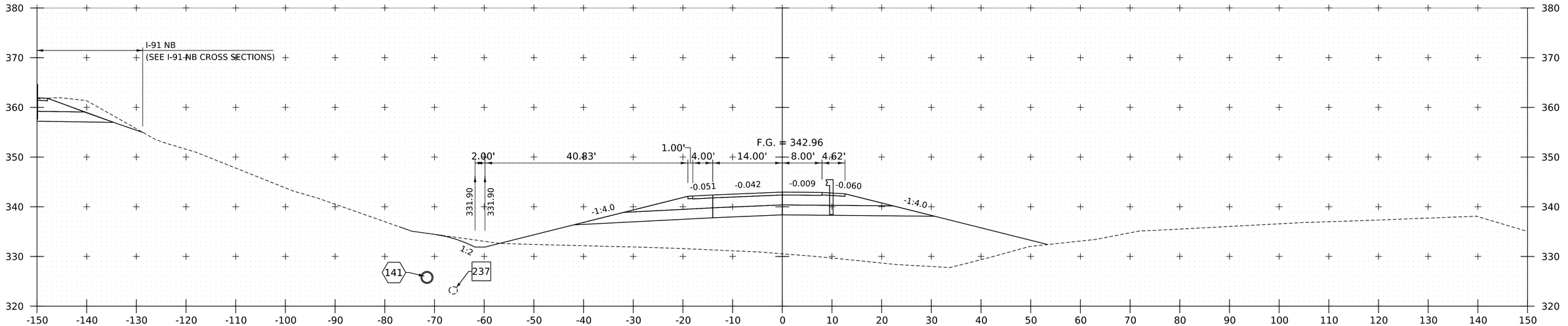


300+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 1	SHEET 579 OF 922

HNTB



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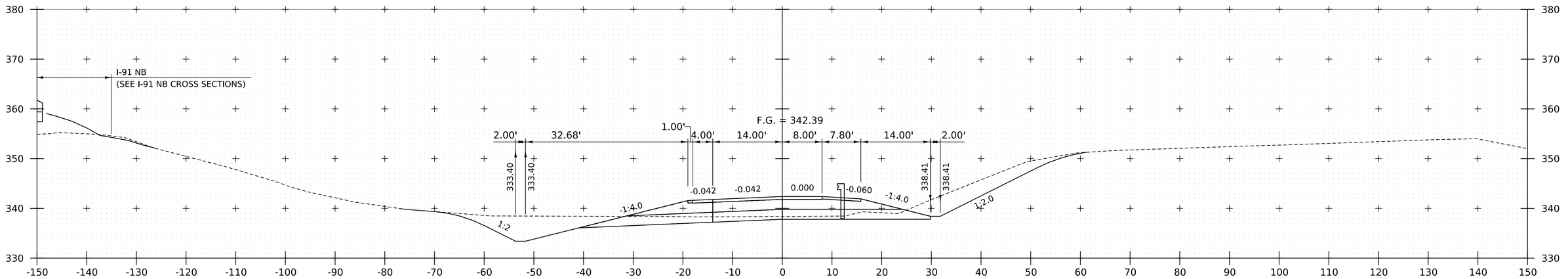
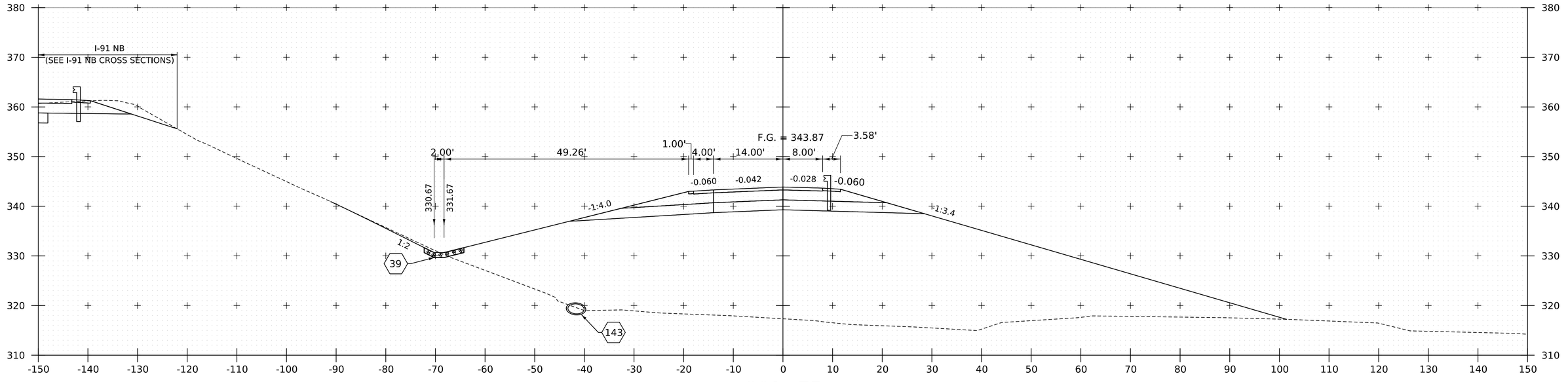


301+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 2		SHEET	580 OF 922



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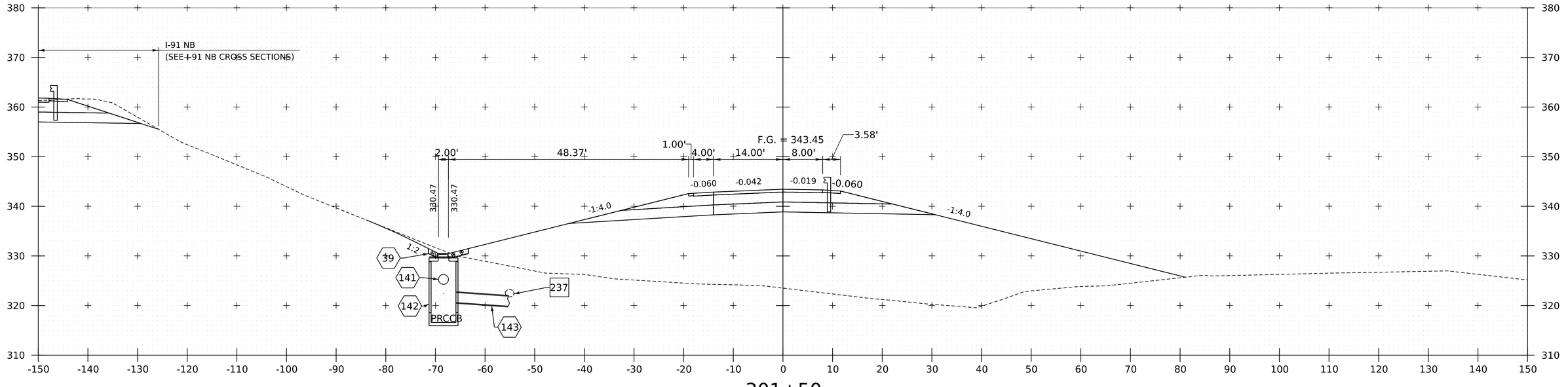
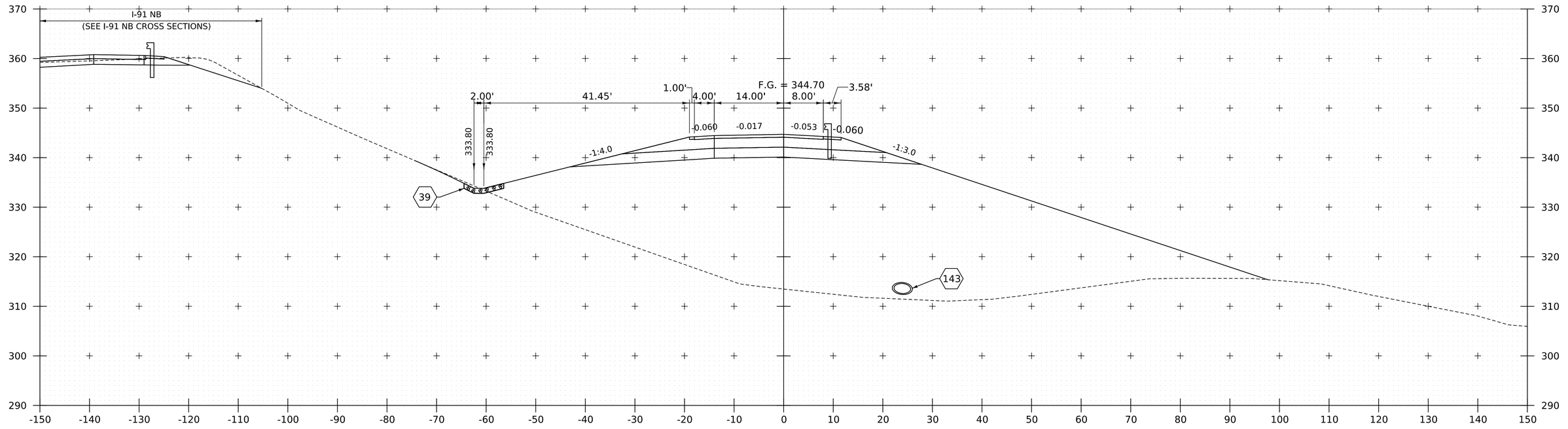


301+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 3		SHEET	581 OF 922

HNTB



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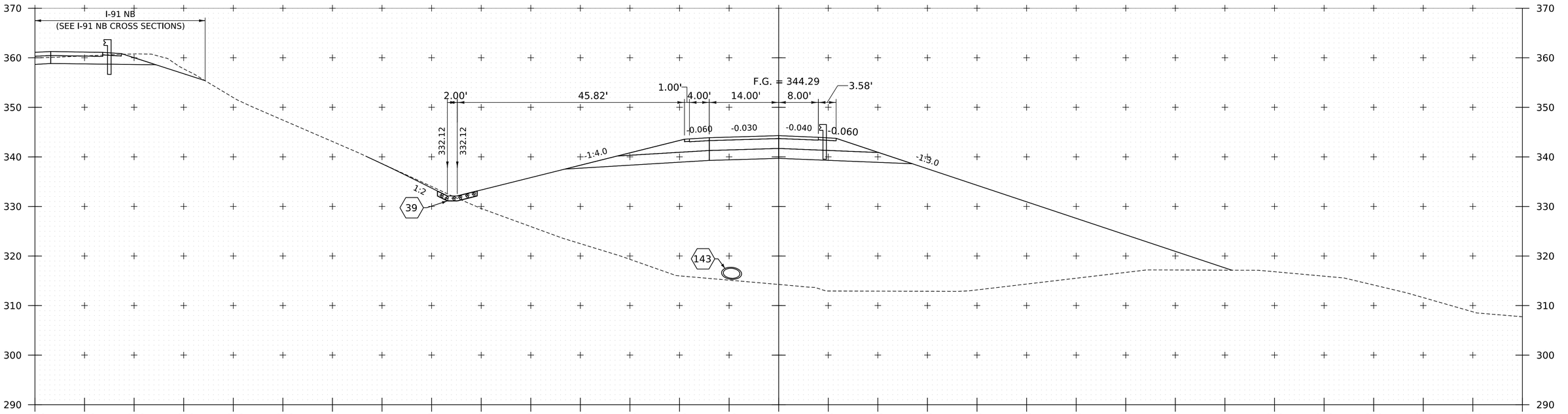
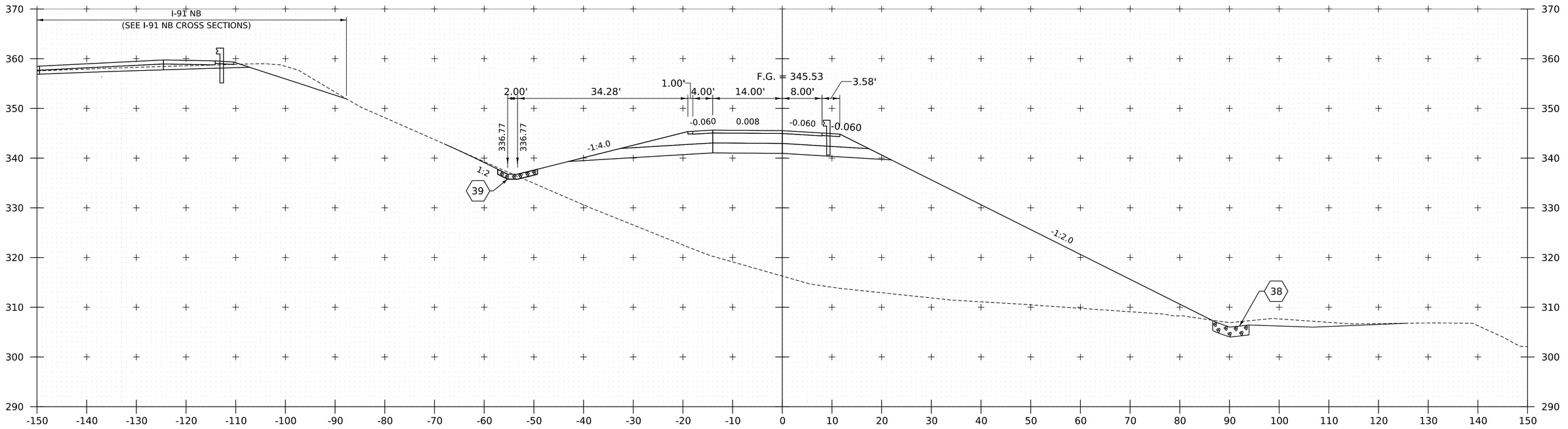


302+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 4		SHEET	582 OF 922



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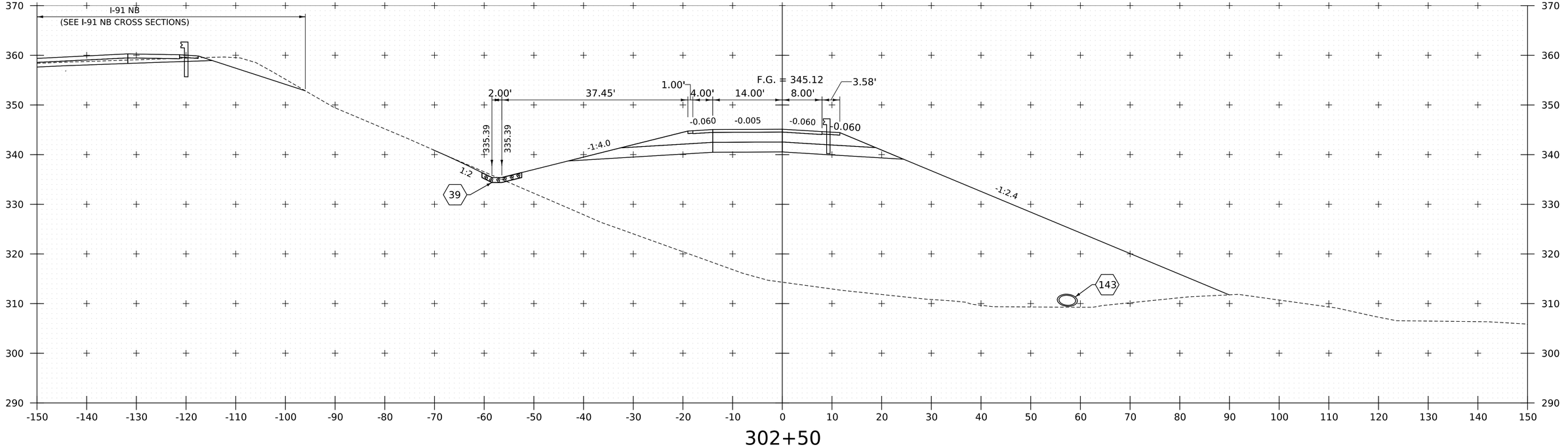

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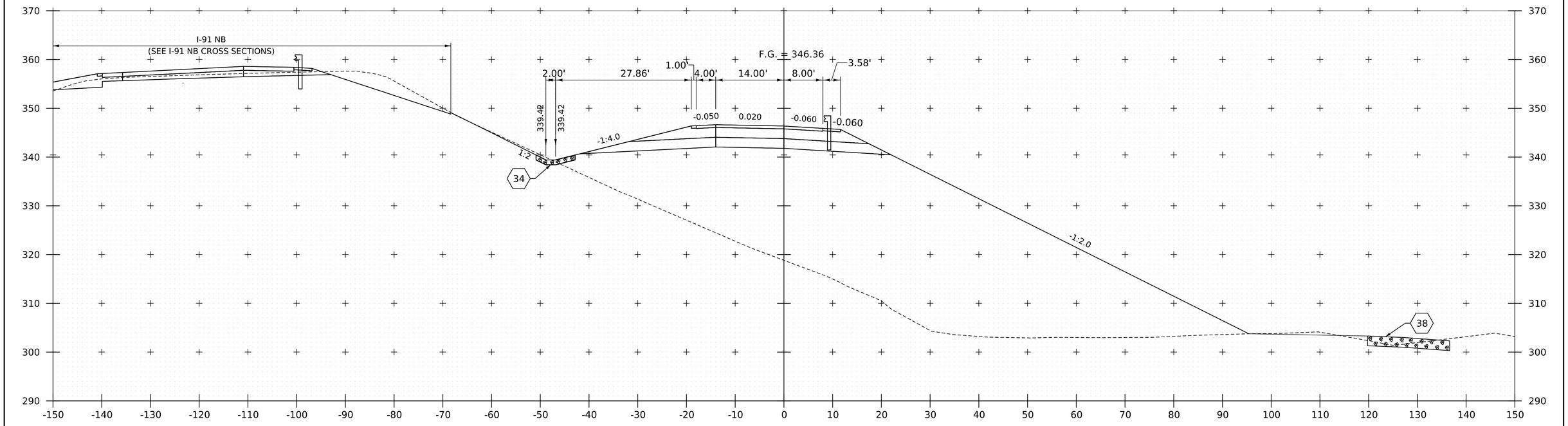
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 5	SHEET 583 OF 922

HNTB



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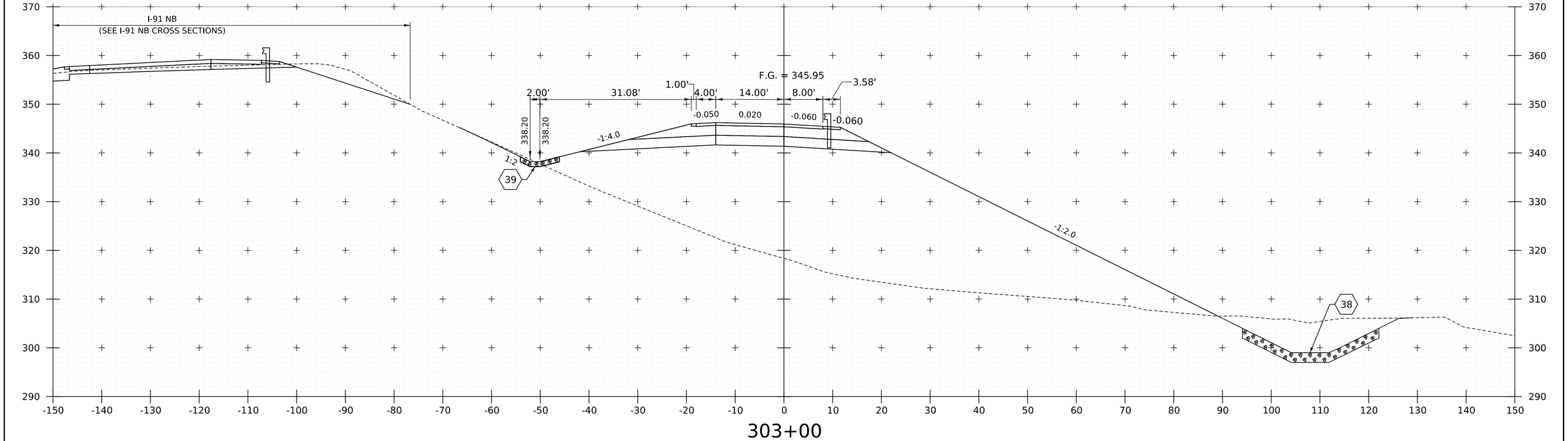
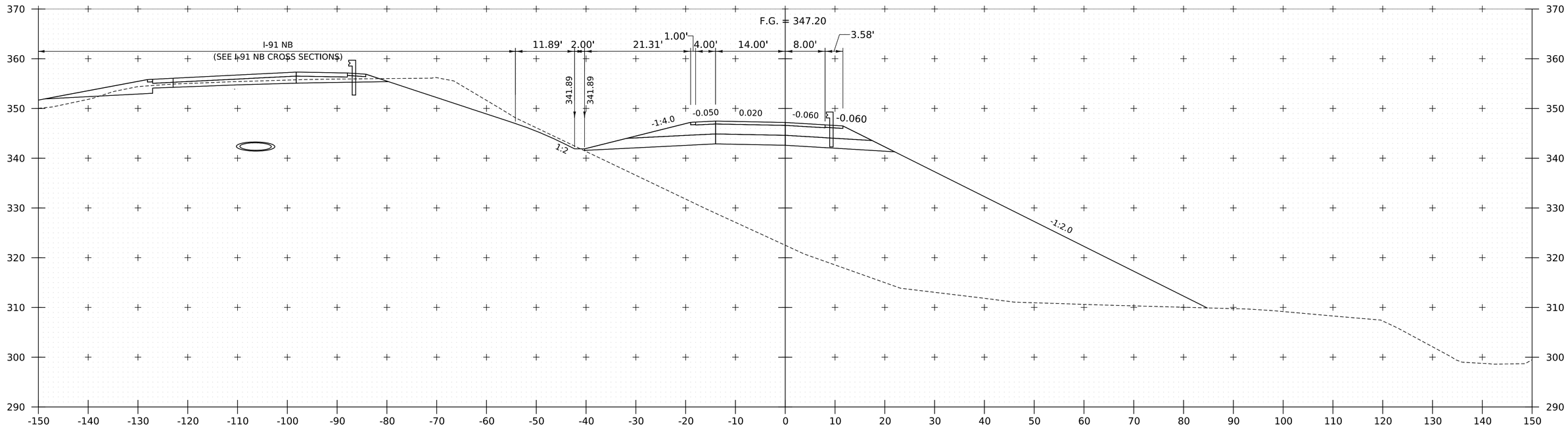


303+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 6		SHEET	584 OF 922

HNTB



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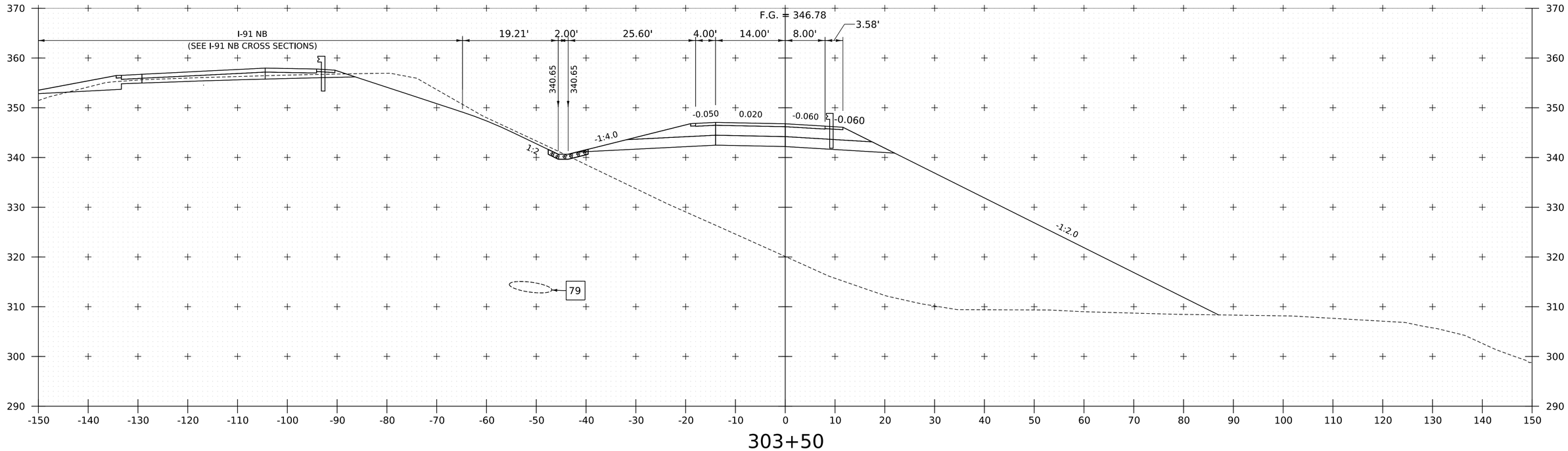

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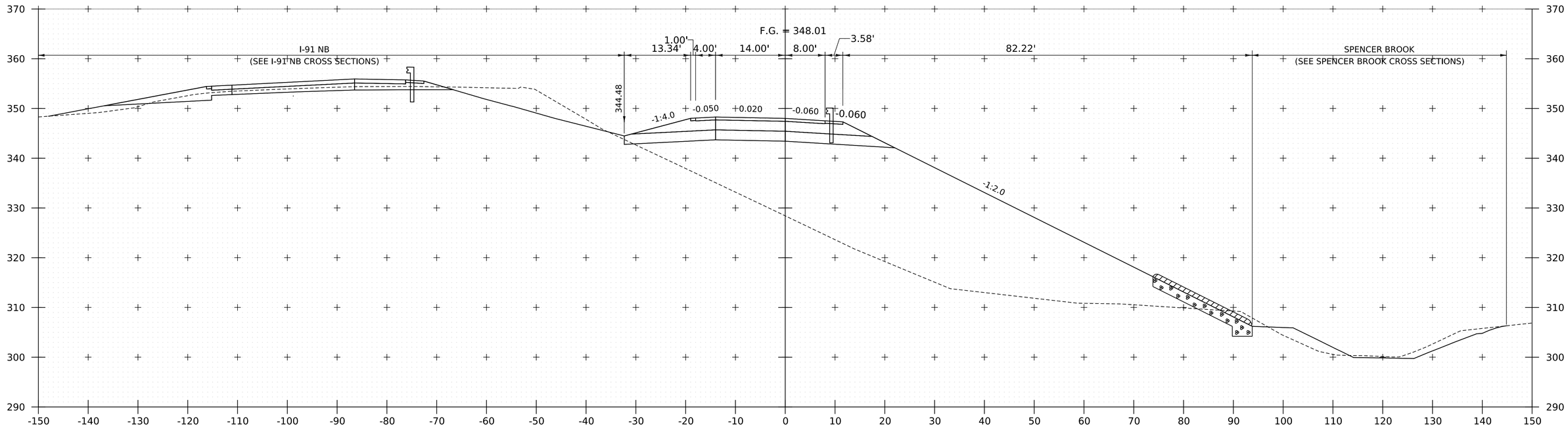
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 7		SHEET	585 OF 922



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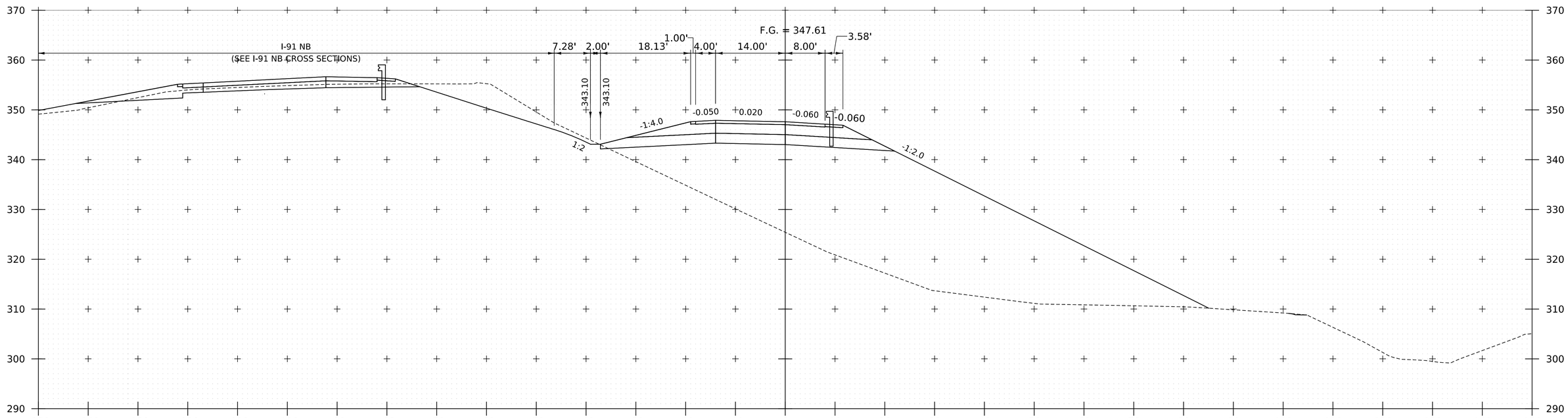

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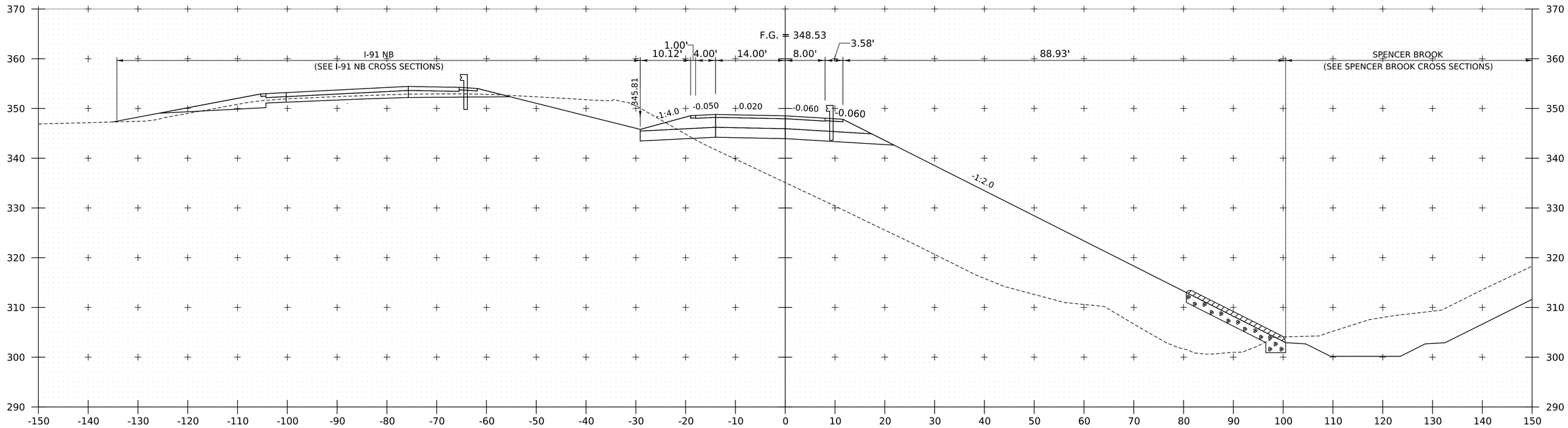
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 8		SHEET	586 OF 922



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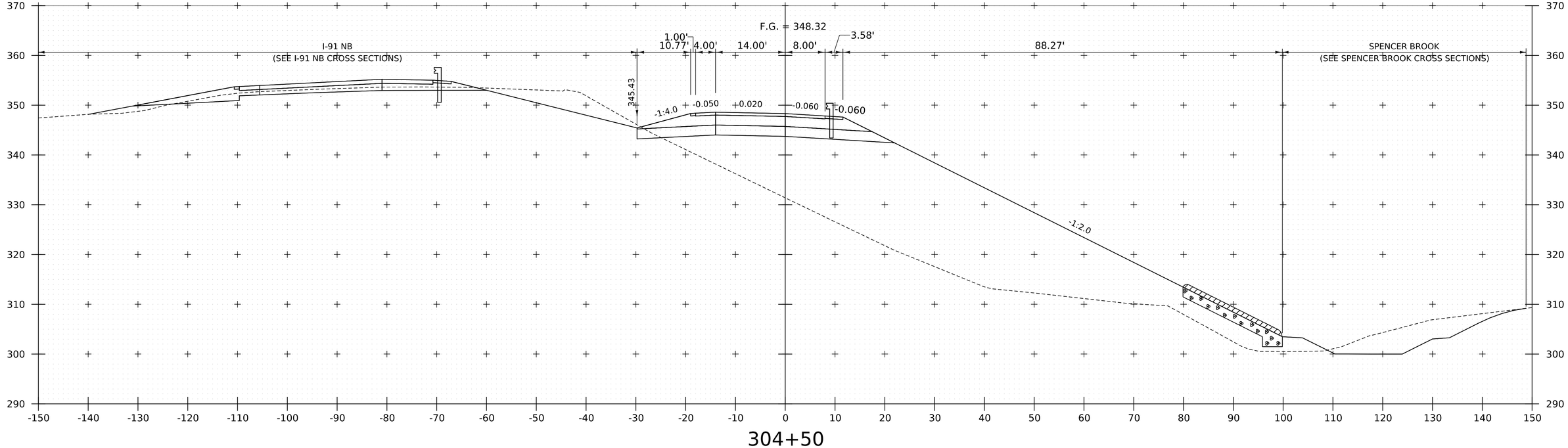

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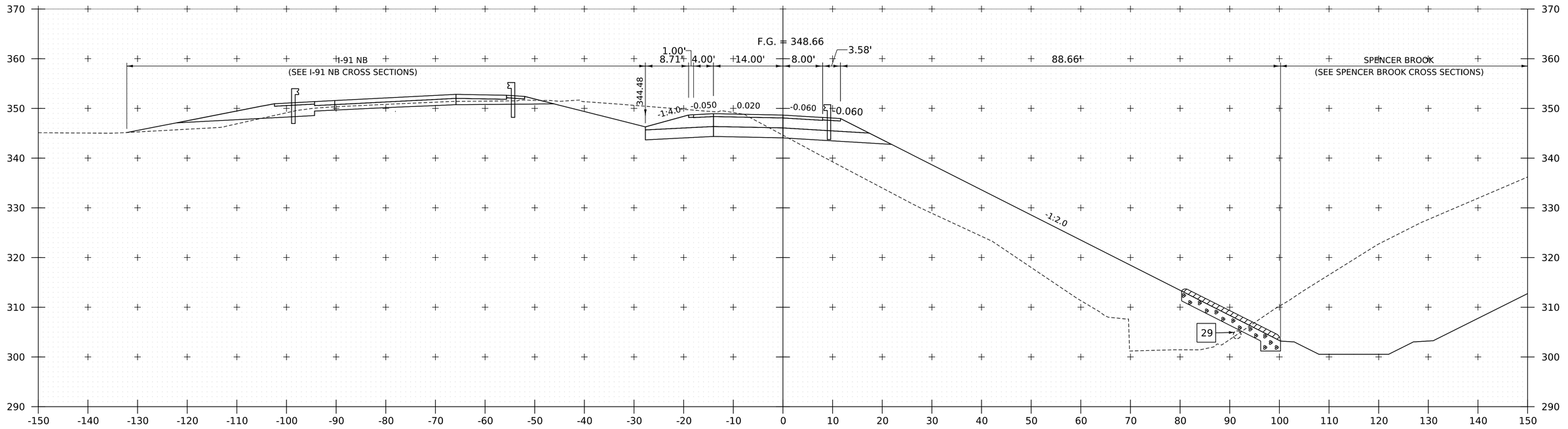
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 9		SHEET	587 OF 922

HNTB



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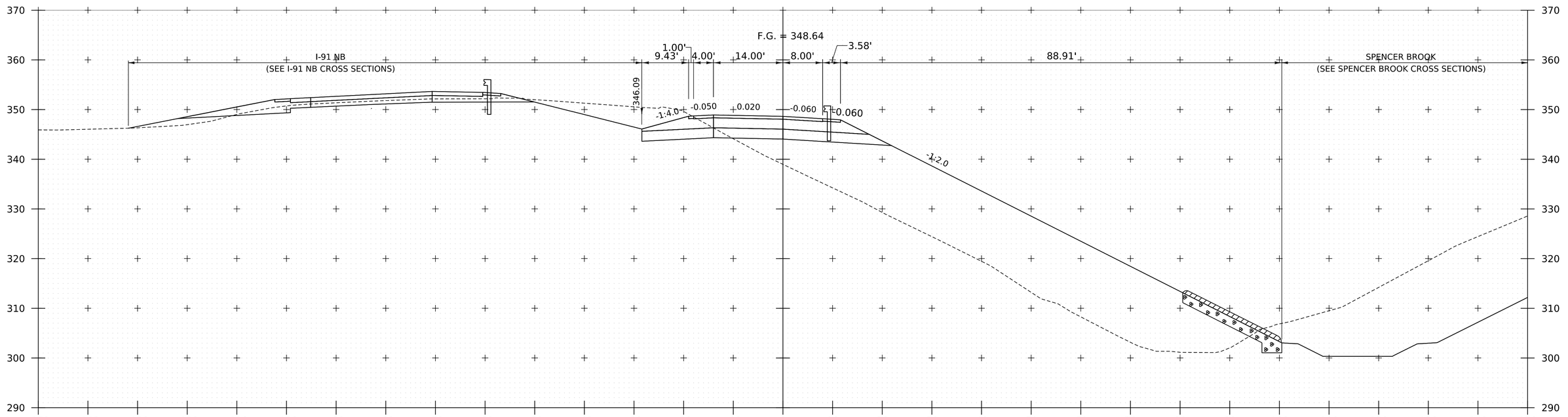

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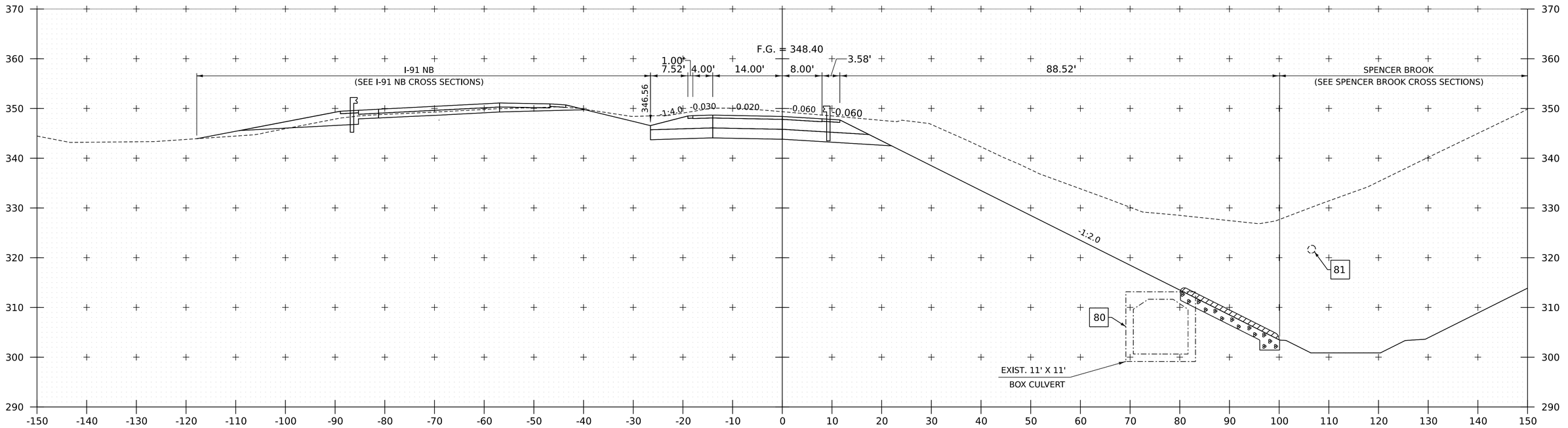
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 10		SHEET	588 OF 922



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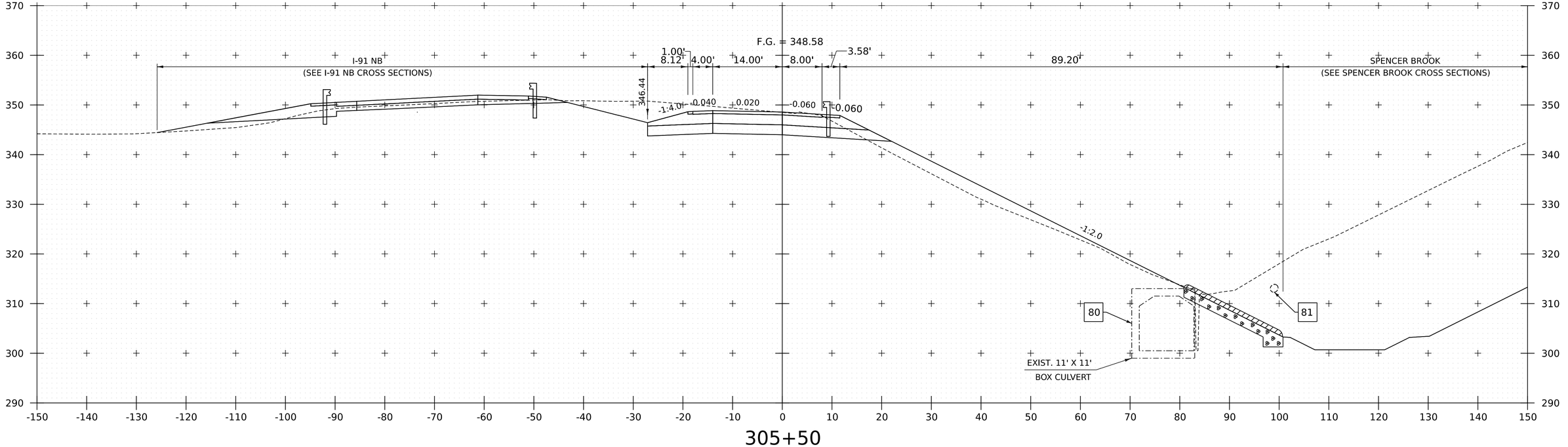

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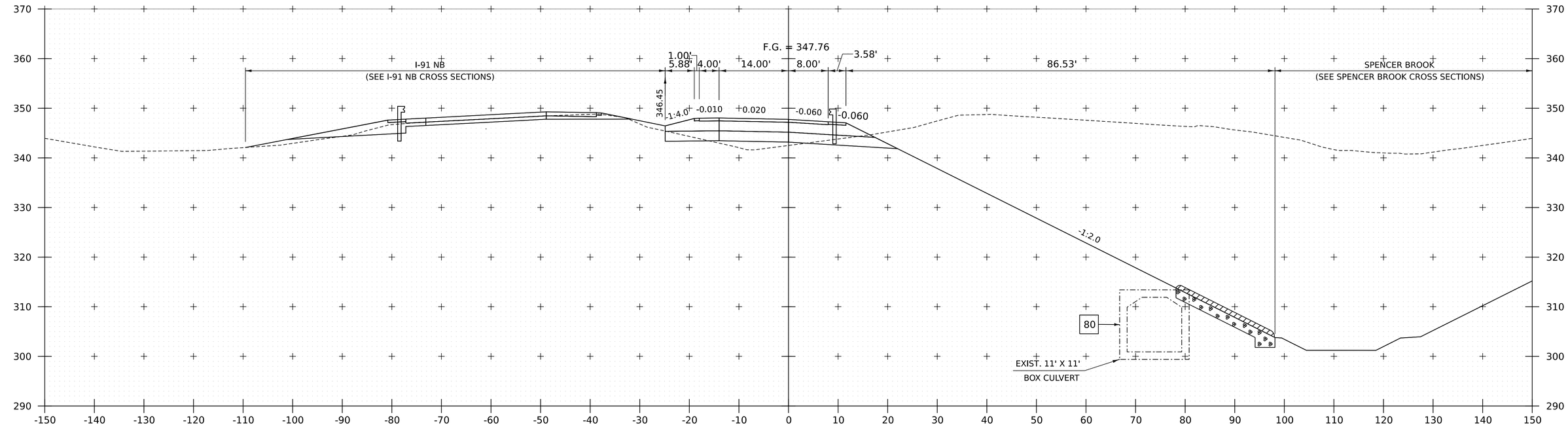
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 11		SHEET	589 OF 922

HNTB



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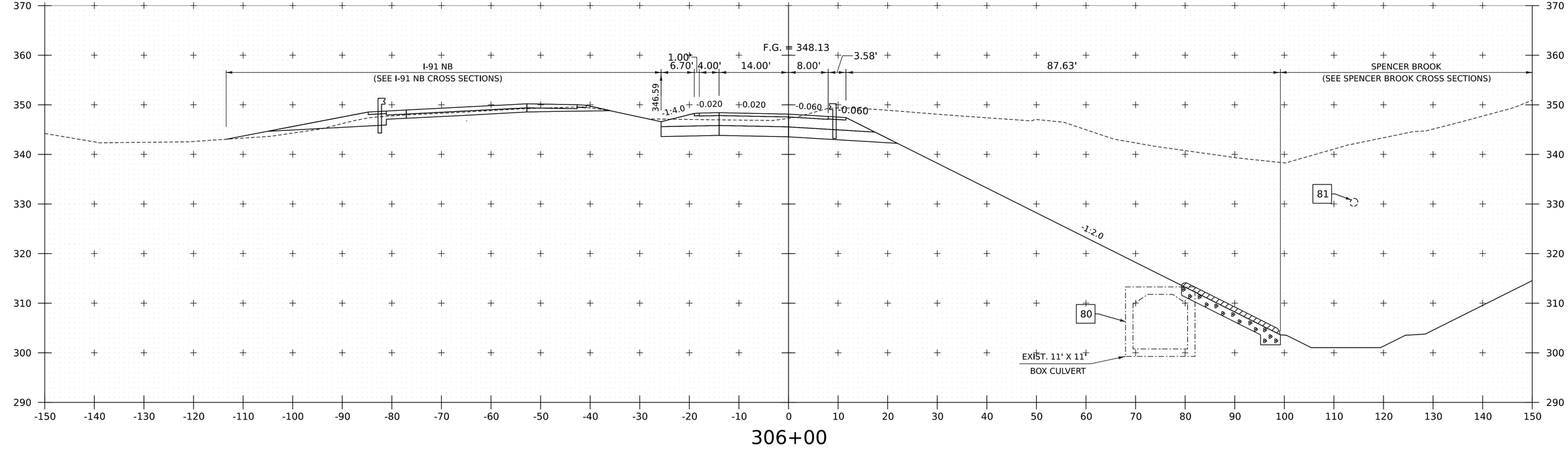

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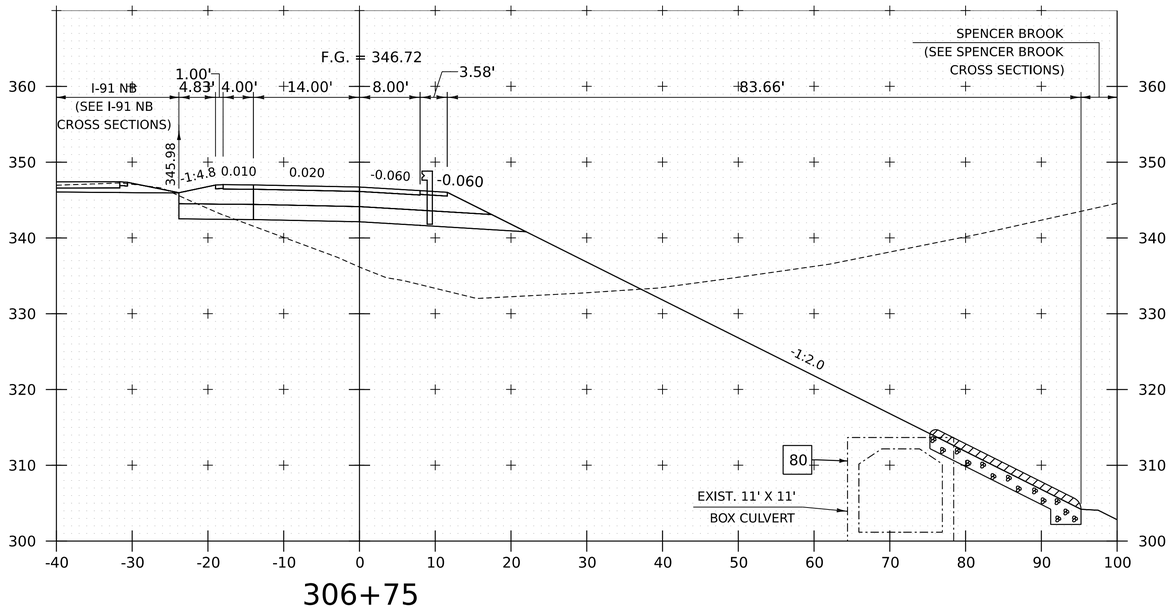
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 12		SHEET	590 OF 922



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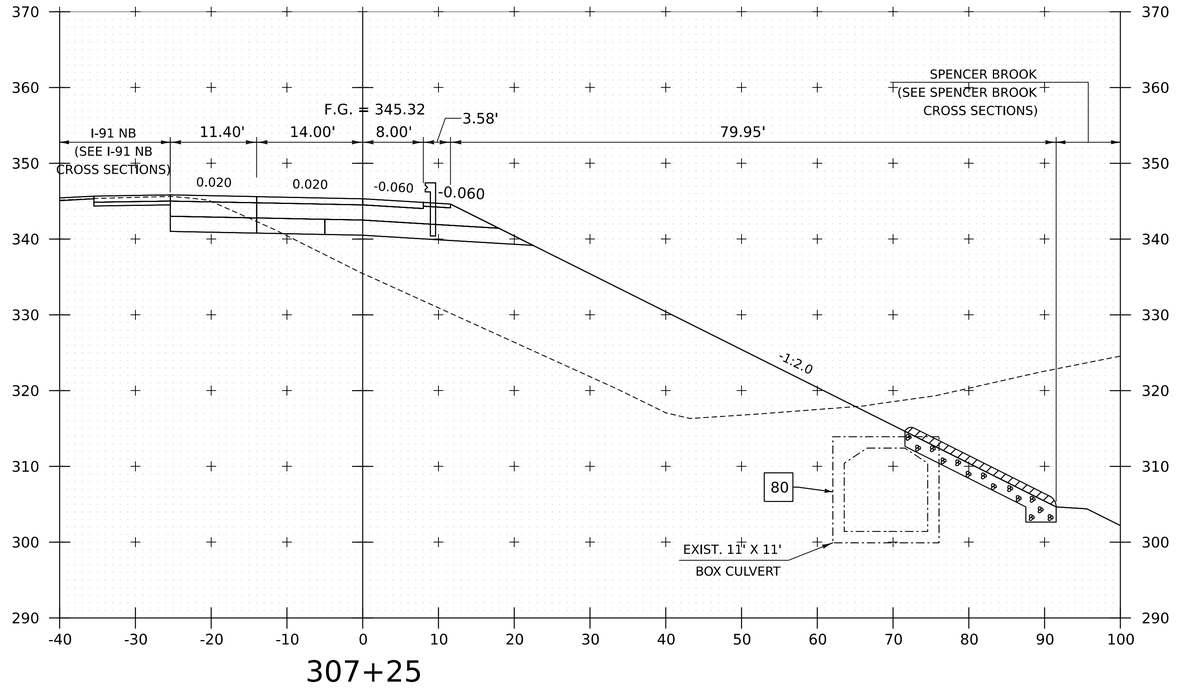

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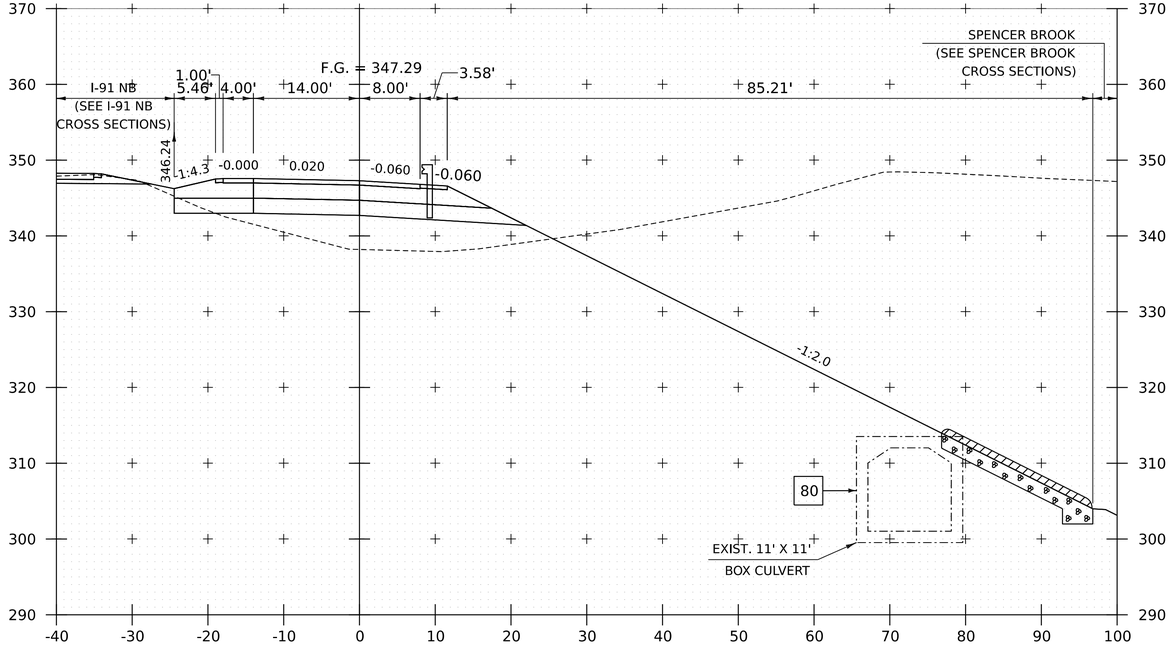

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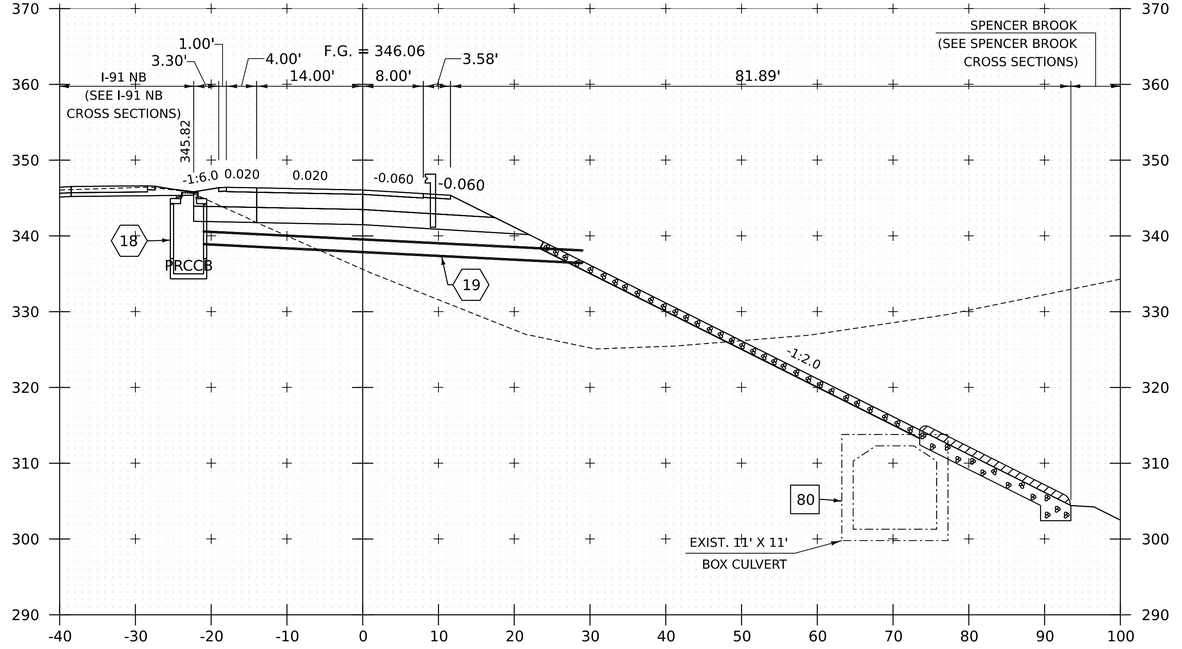
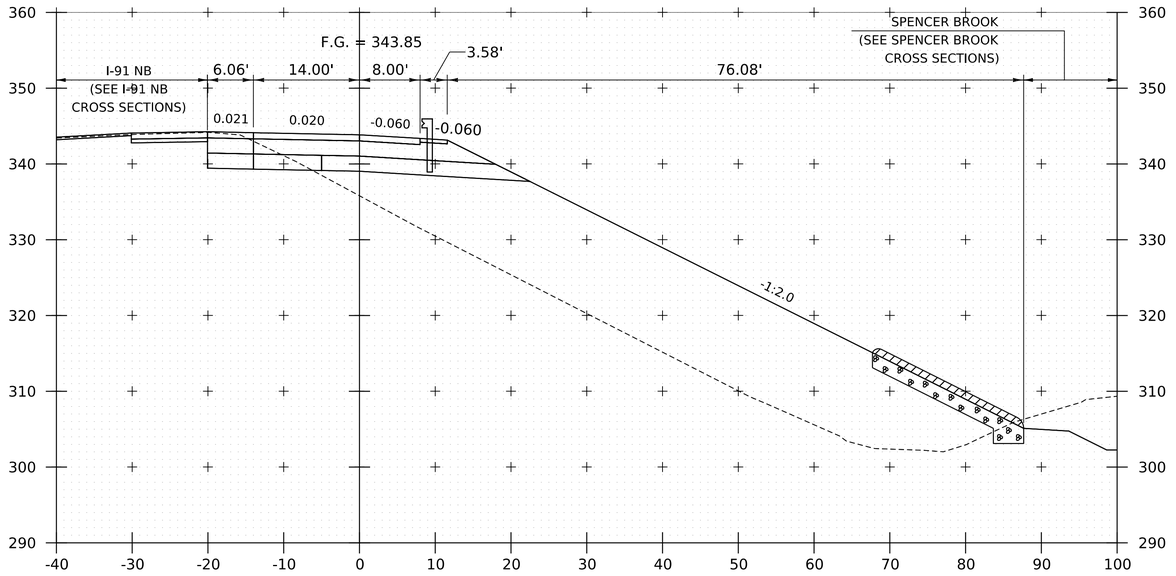


307+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 13		SHEET	591 OF 922



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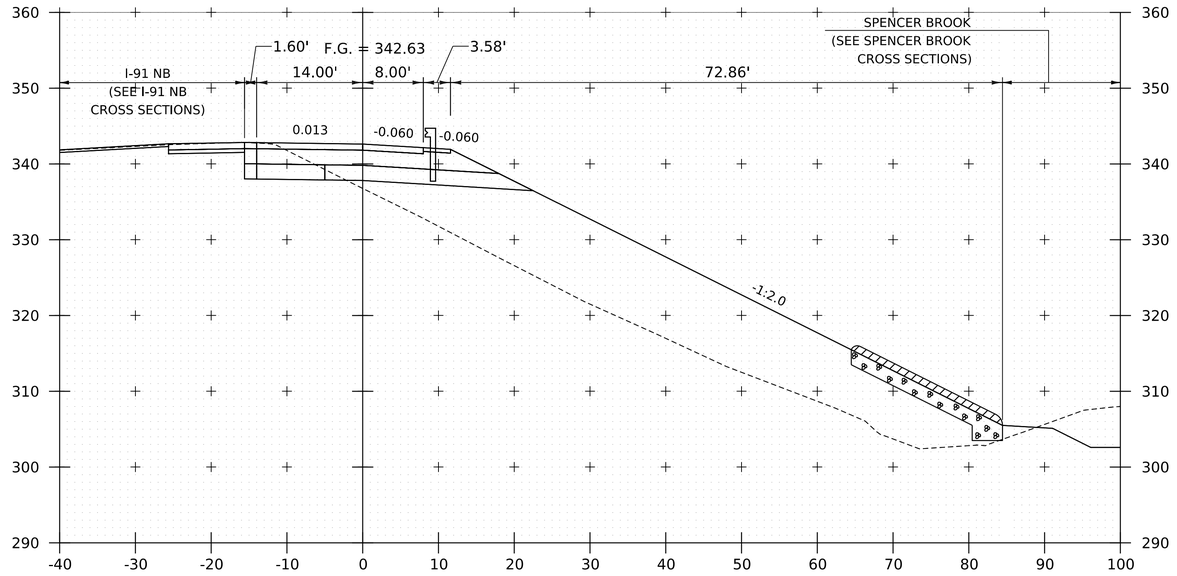

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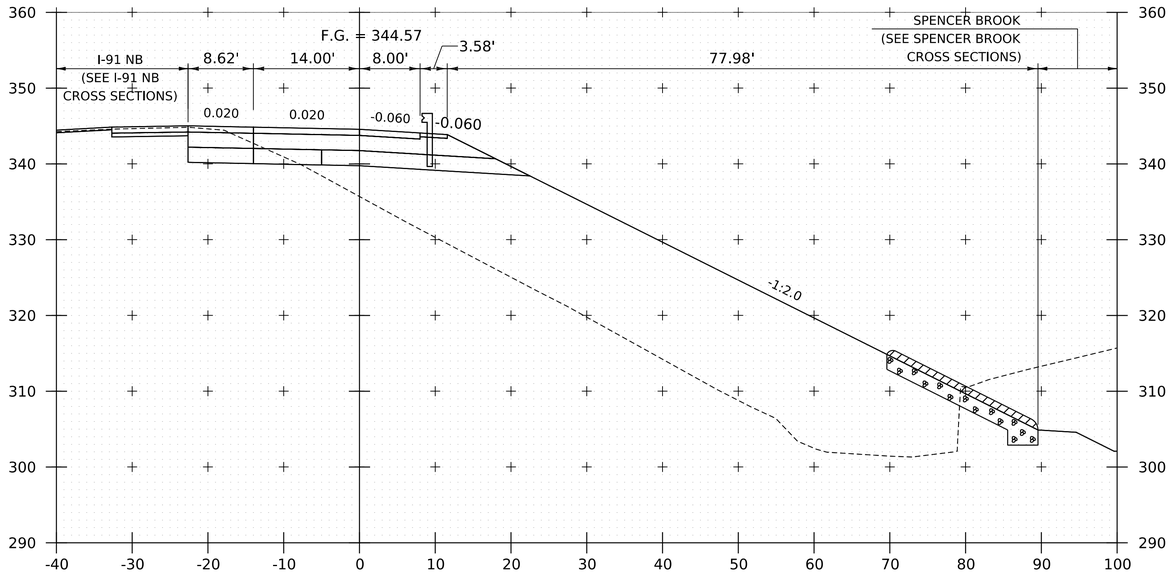

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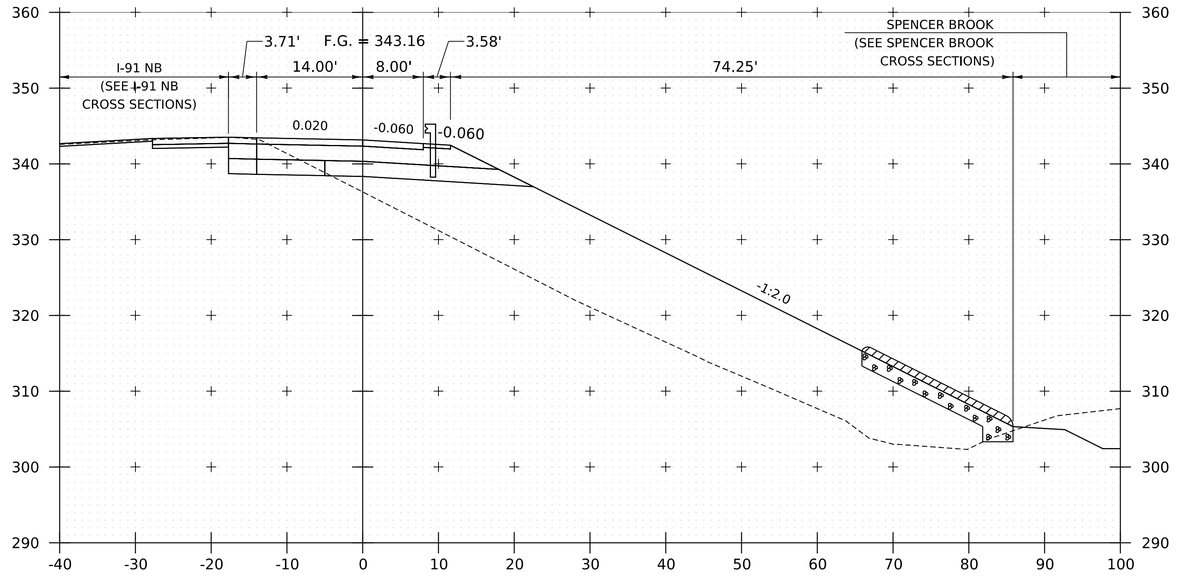

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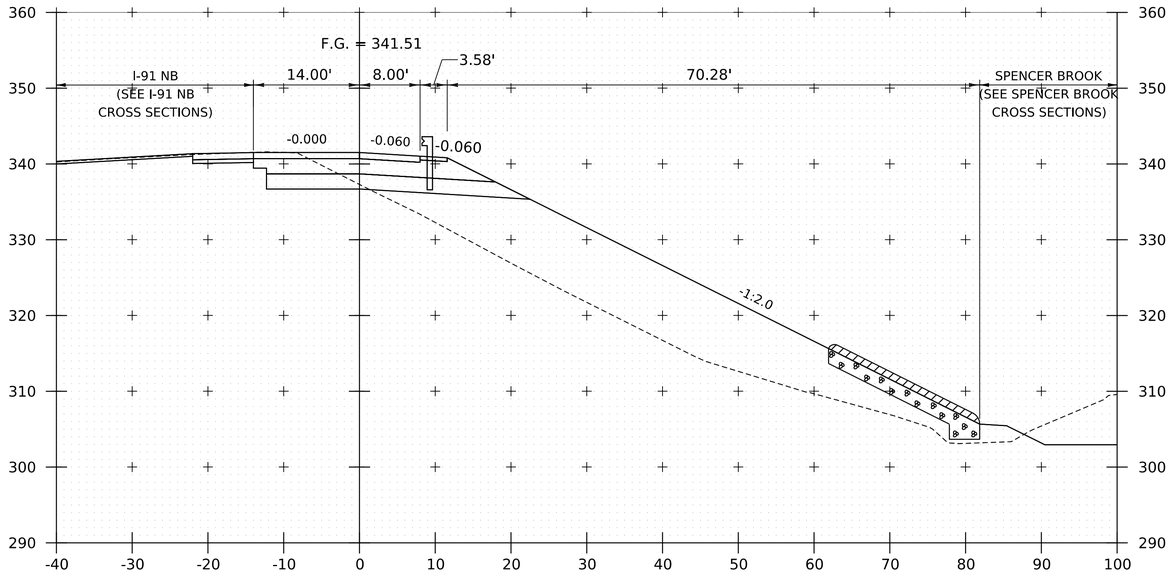
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 14	SHEET 592 OF 922

HNTB



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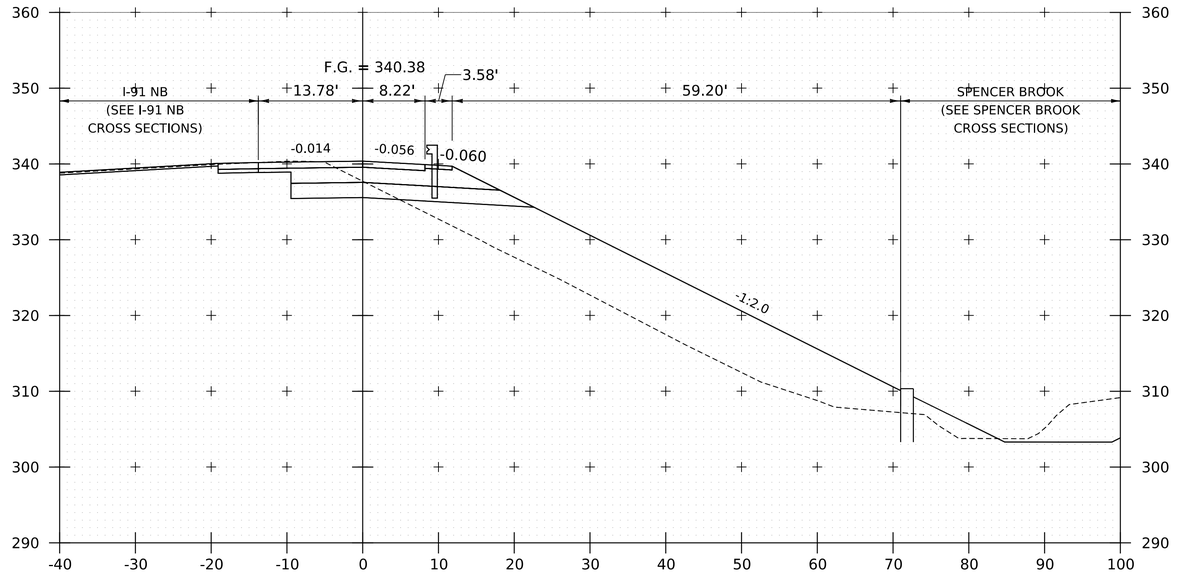

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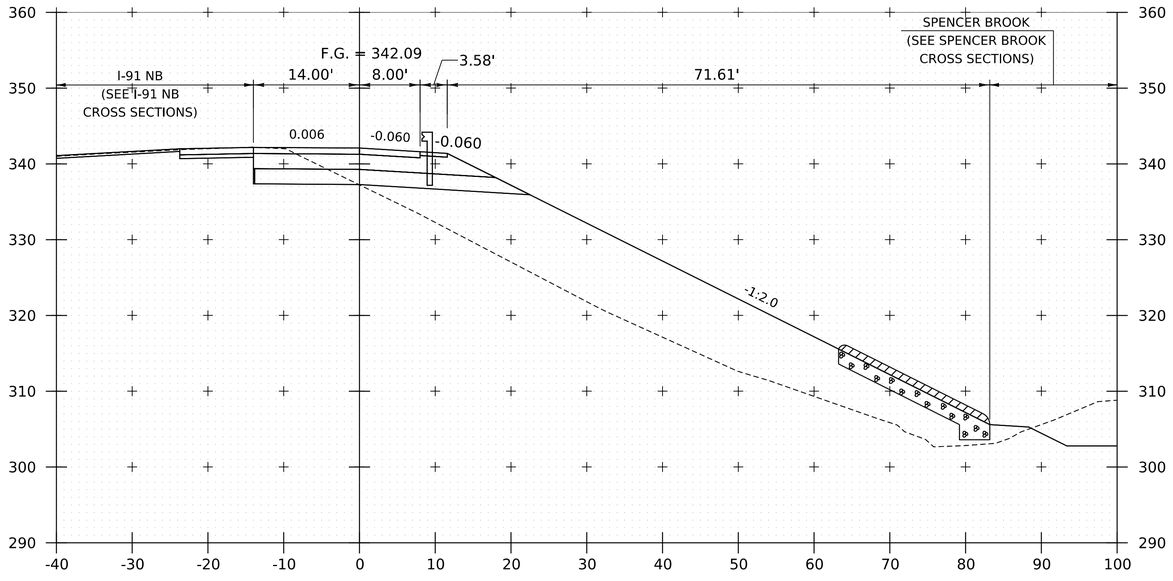

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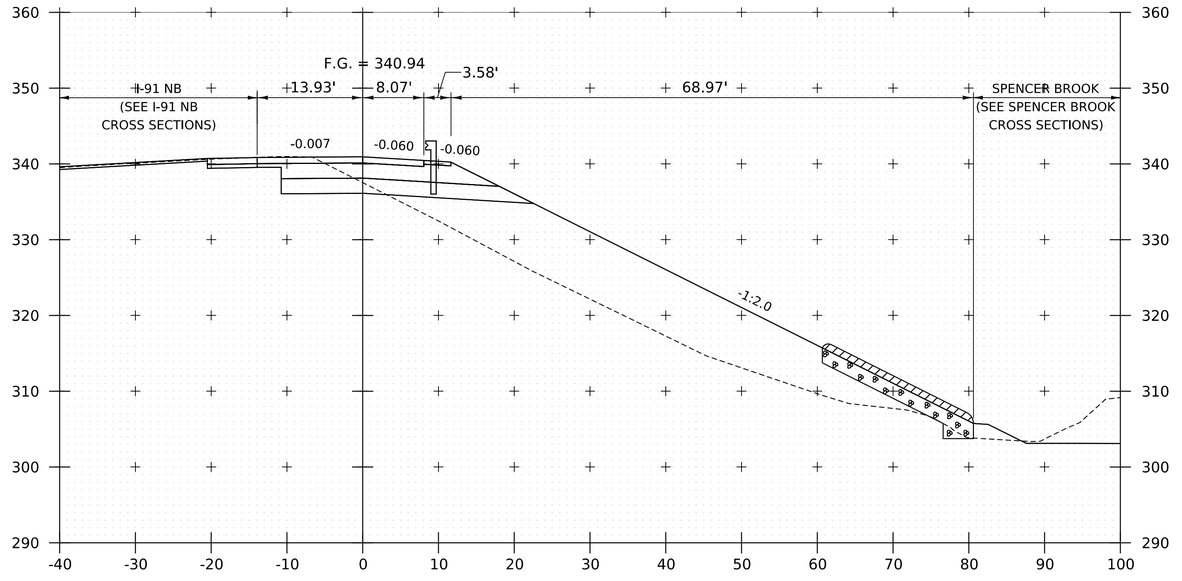

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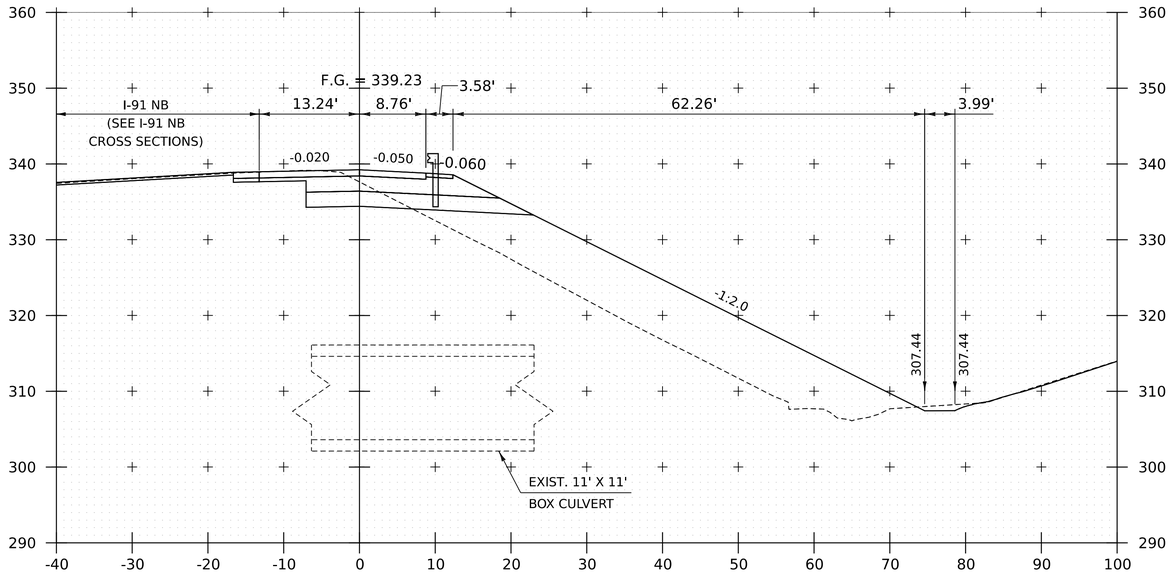
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 15		SHEET	593 OF 922

HNTB



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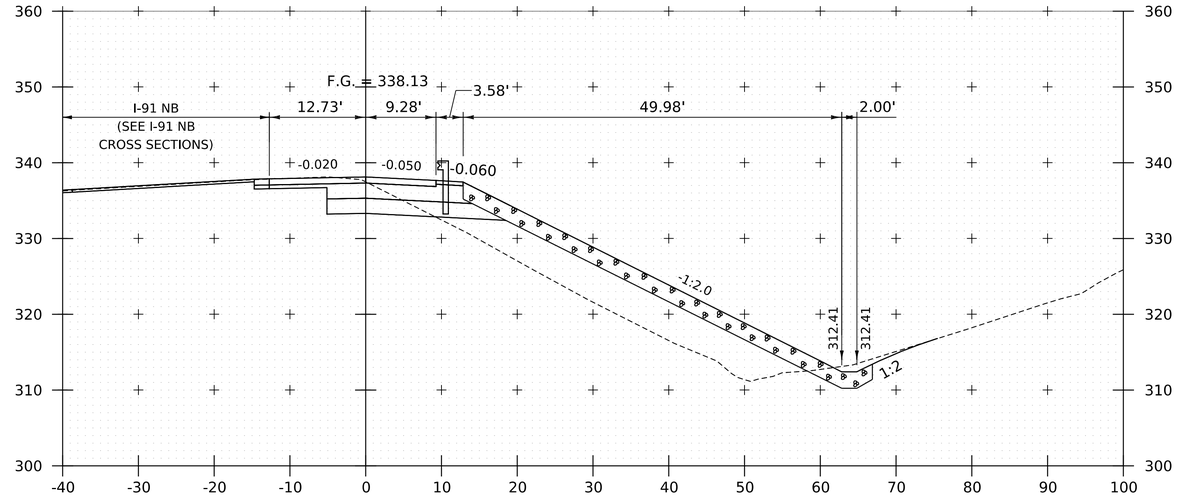

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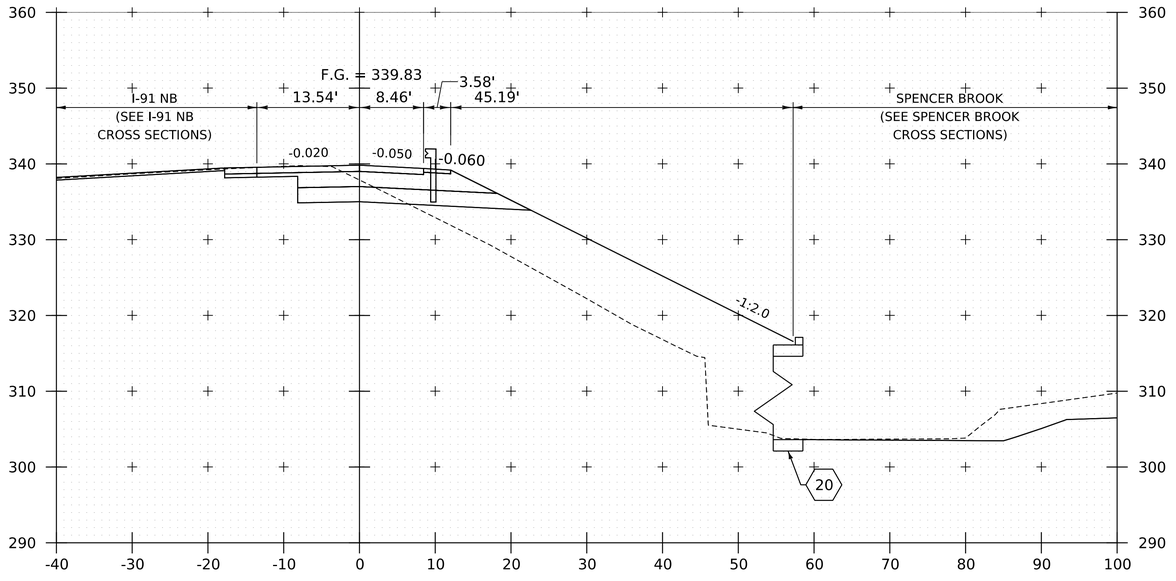

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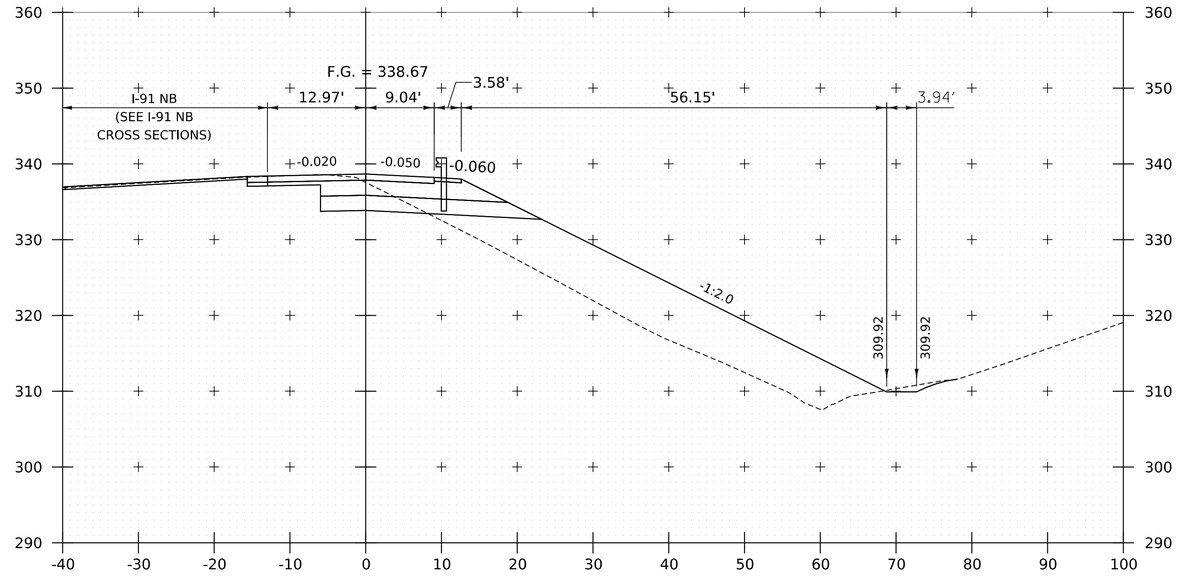

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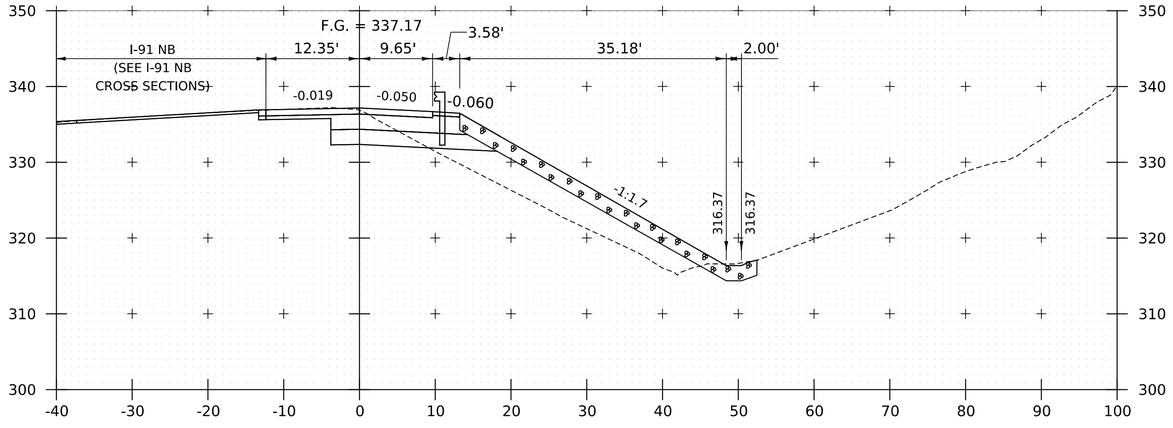
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 16		SHEET	594 OF 922

HNTB



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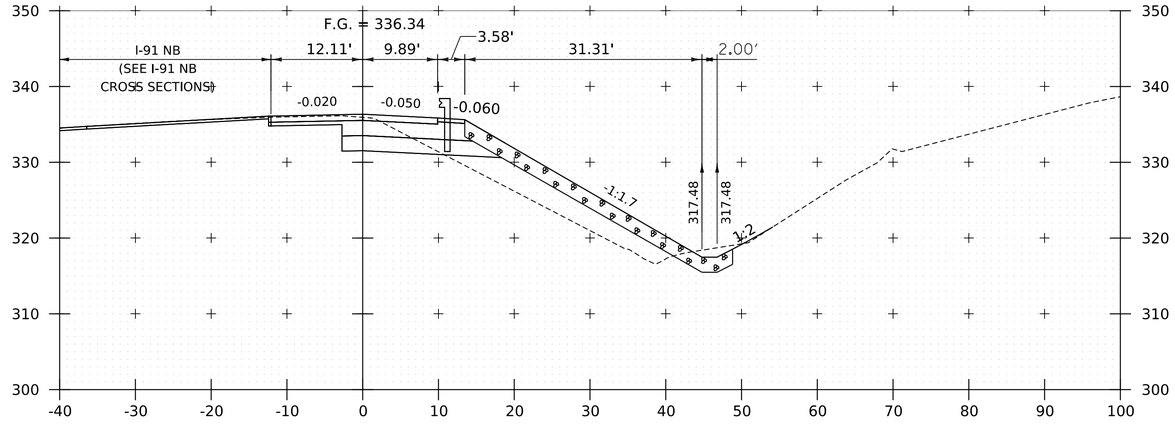

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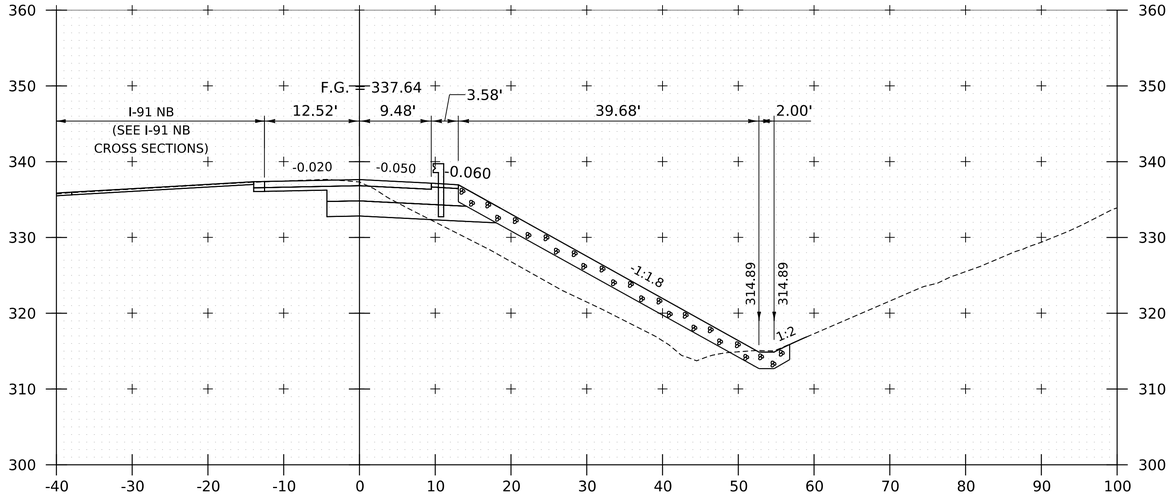

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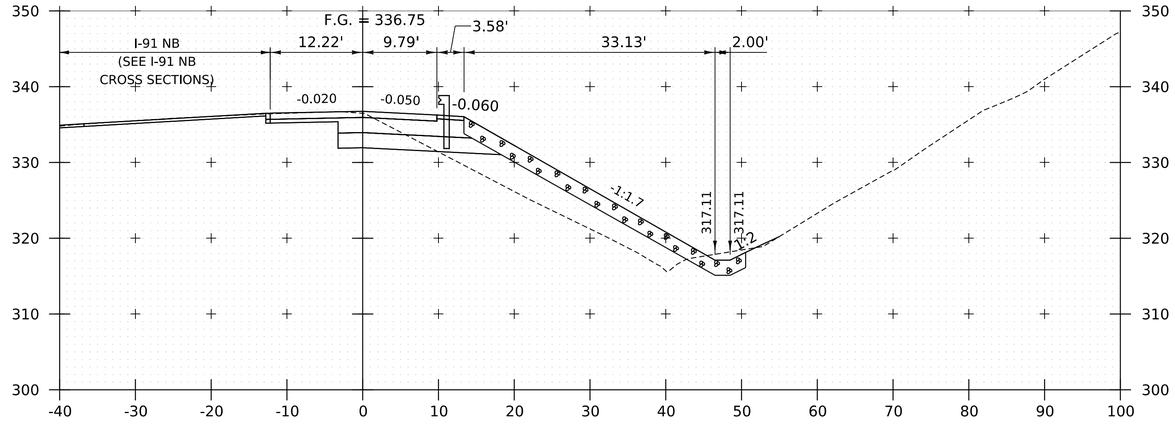

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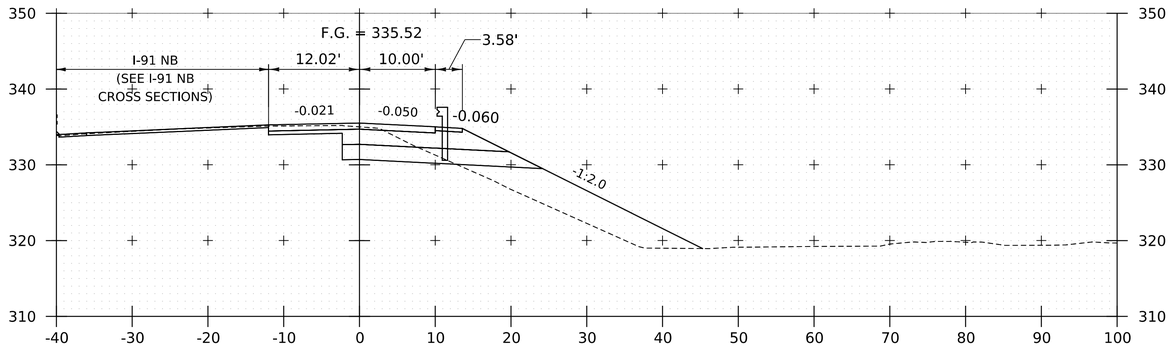
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 17		SHEET	595 OF 922

HNTB



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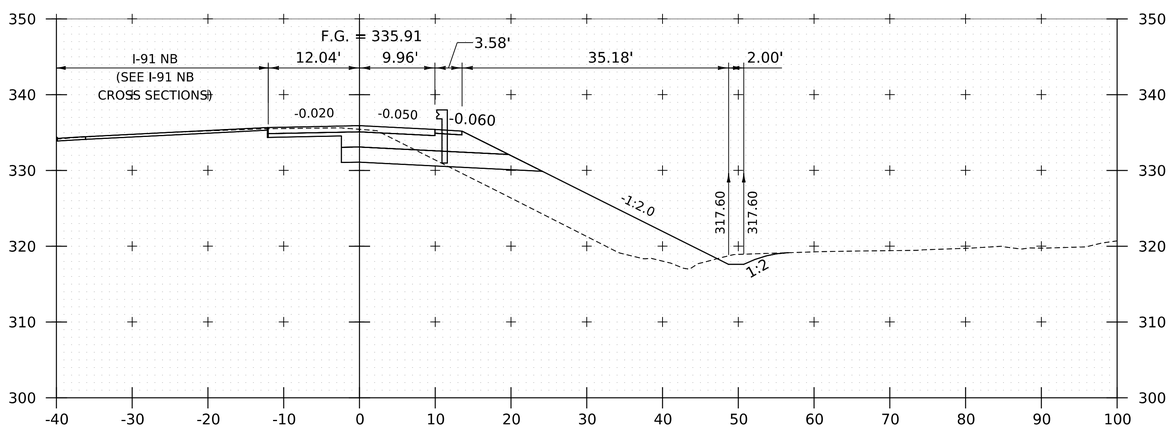

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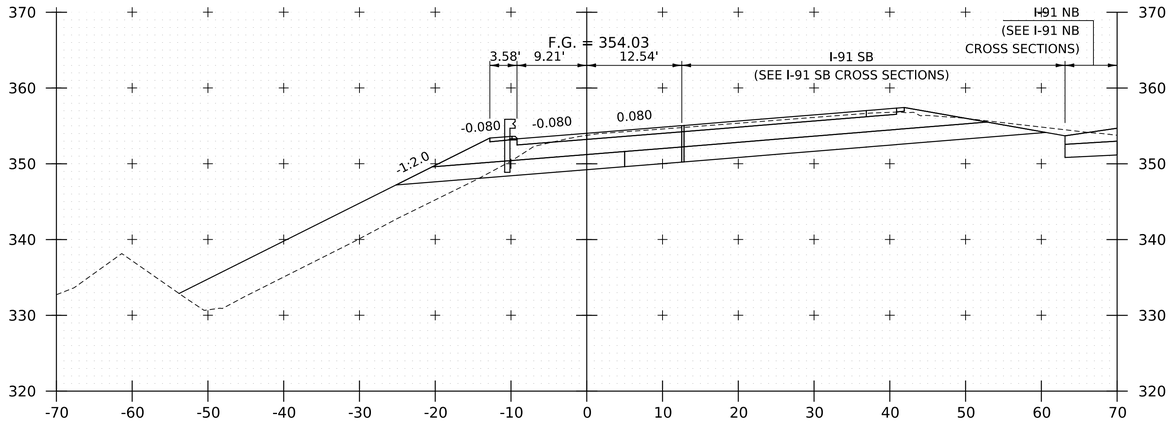
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_I_91_NB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
I-91 NB ON RAMP CROSS SECTIONS 18		SHEET	596 OF 922



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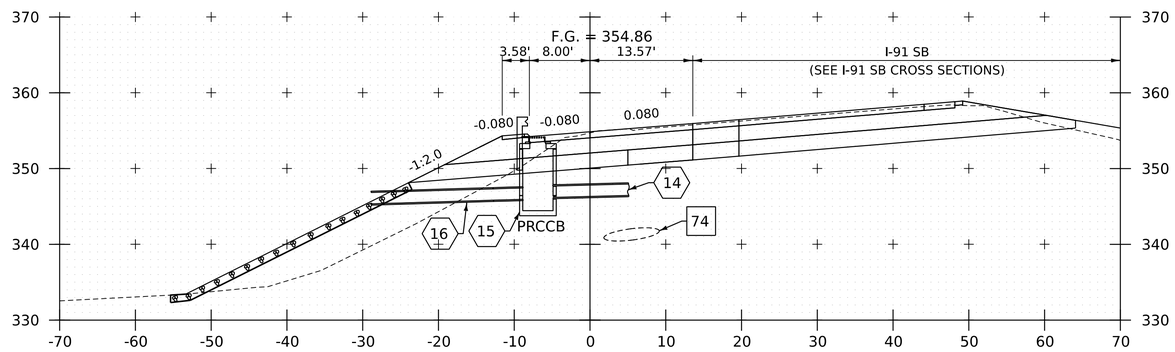

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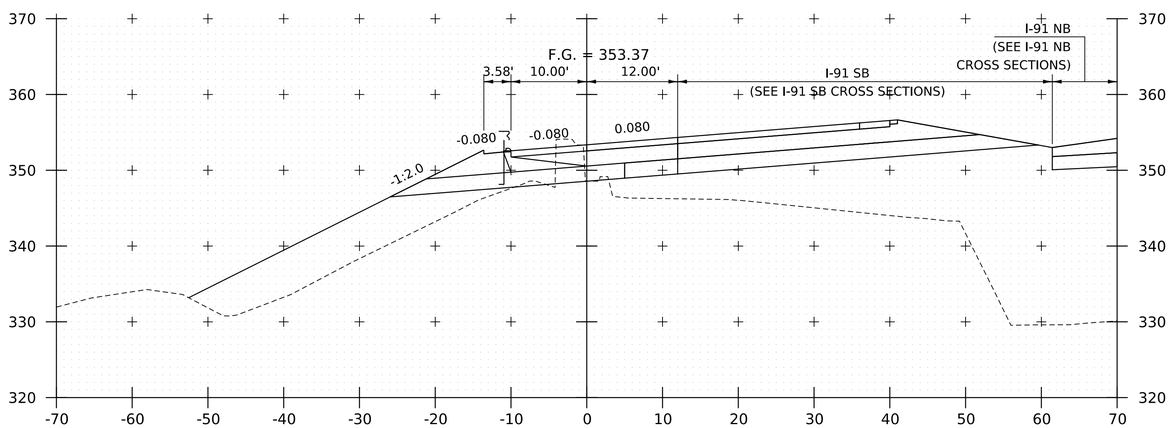

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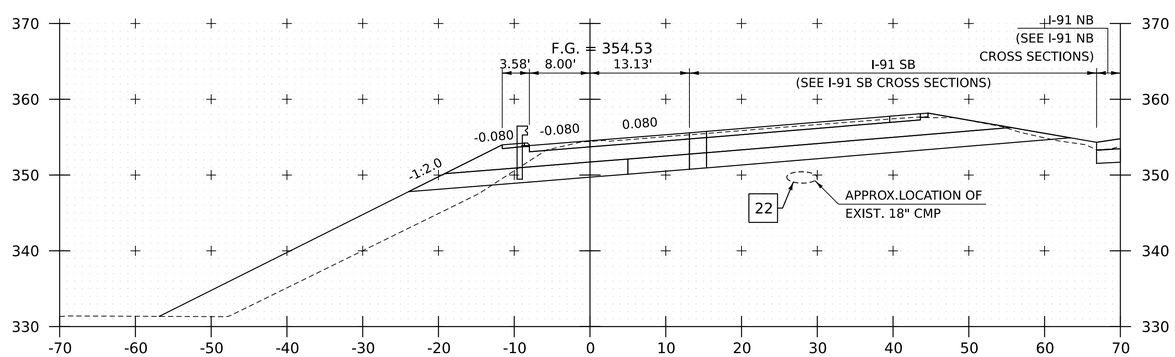

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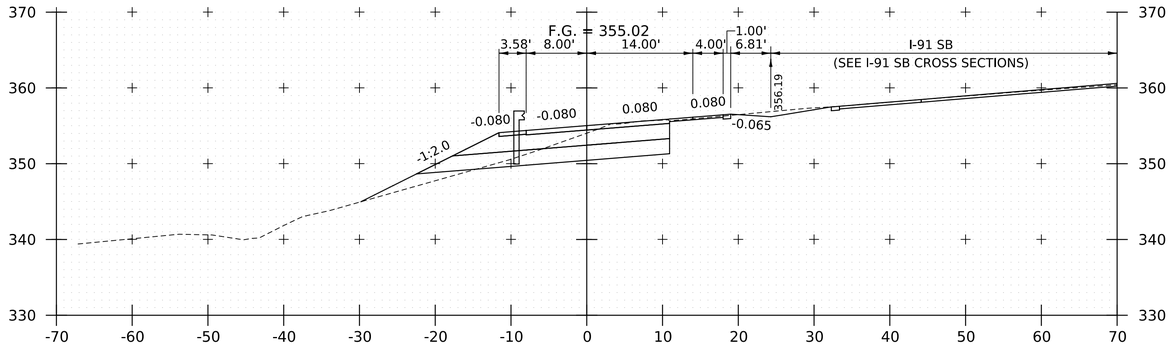
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)

FILE NAME:	z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	P. MCKECHNIE
DESIGNED BY:	P. MCKECHNIE	CHECKED BY:	C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 1		SHEET	597 OF 922

HNTB



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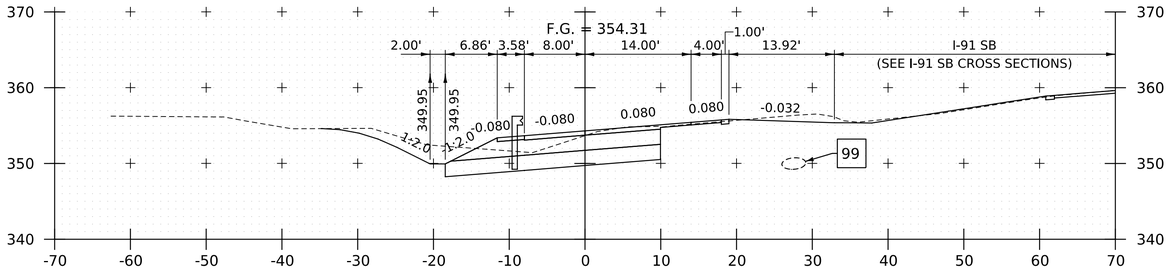

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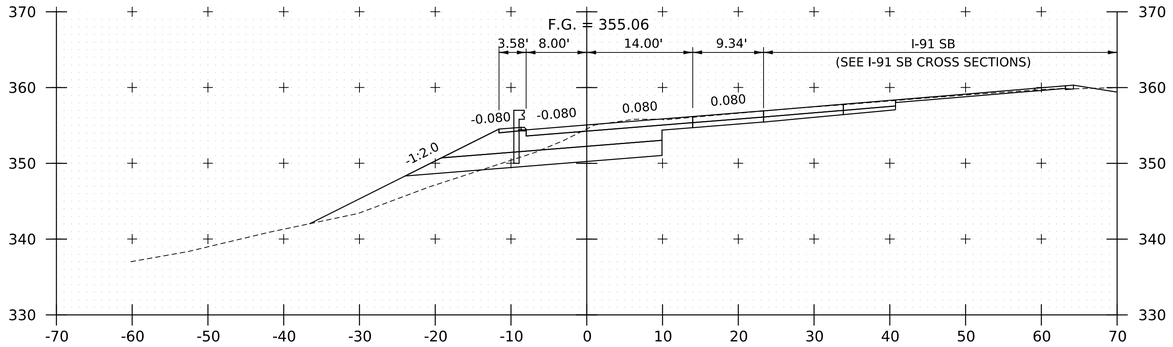

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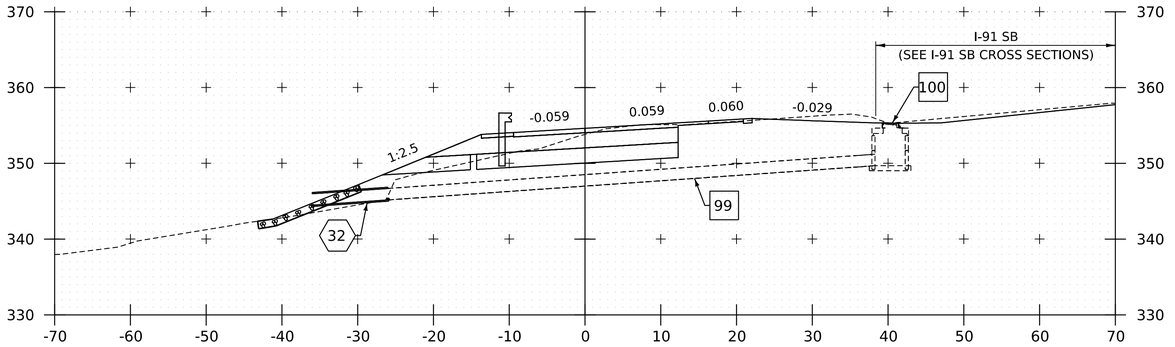

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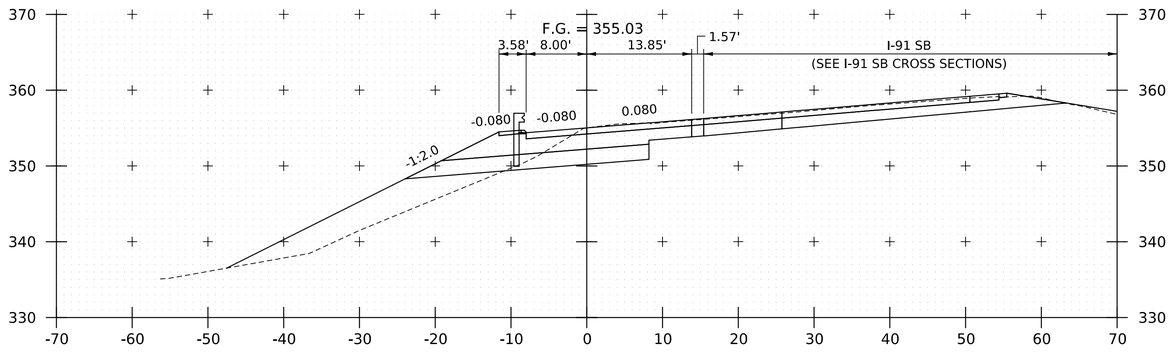

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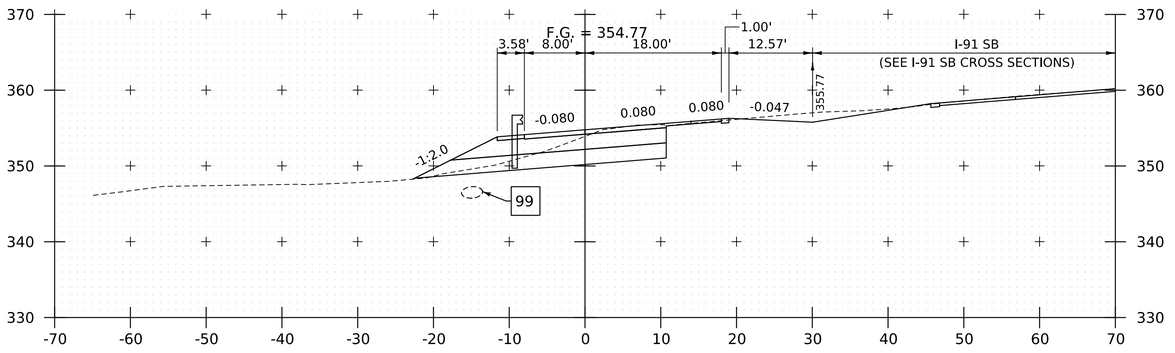
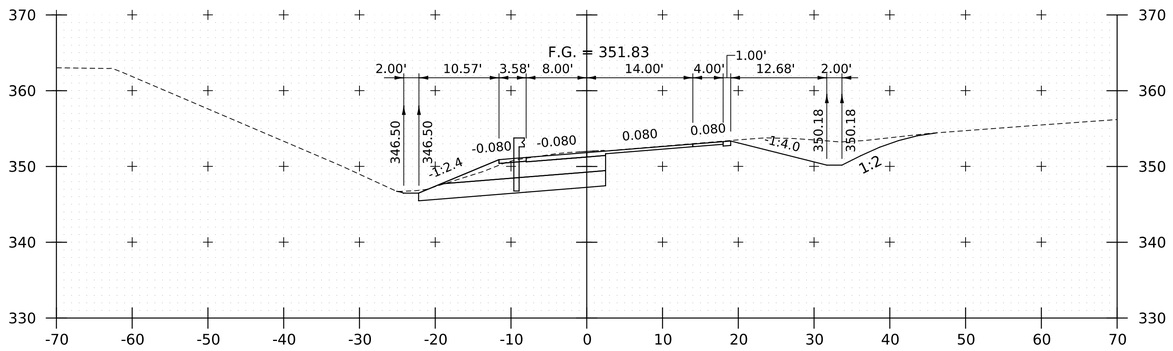


401+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)

FILE NAME:	z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	P. MCKECHNIE
DESIGNED BY:	P. MCKECHNIE	CHECKED BY:	C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 2		SHEET	598 OF 922

HNTB



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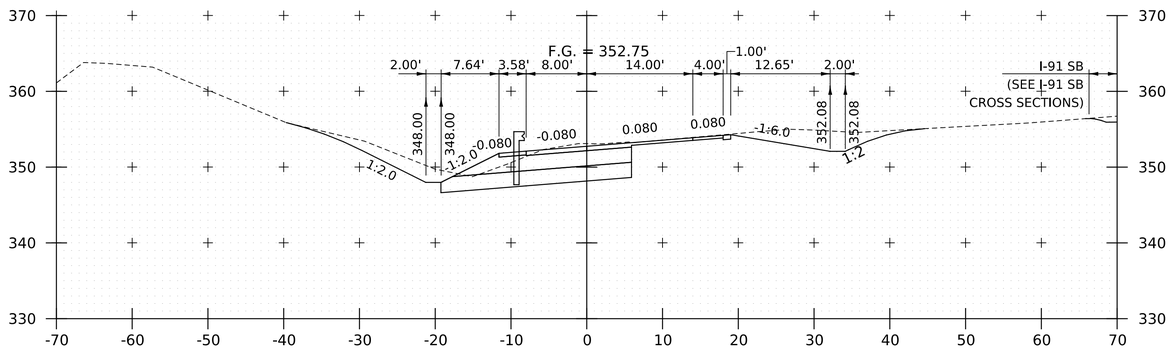

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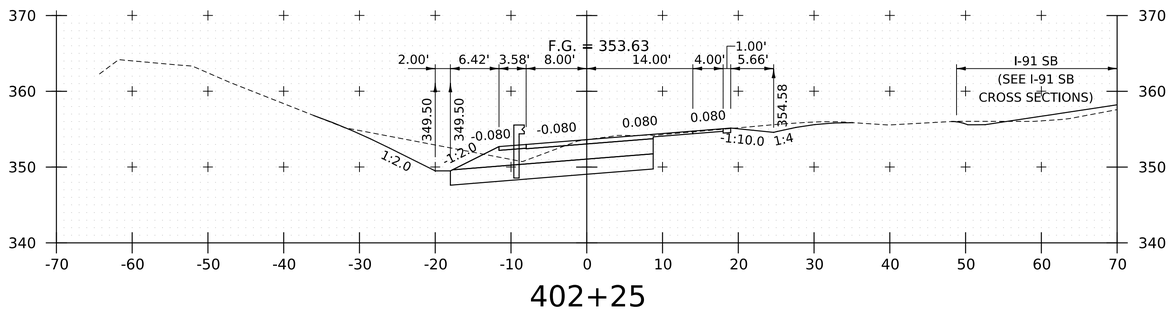

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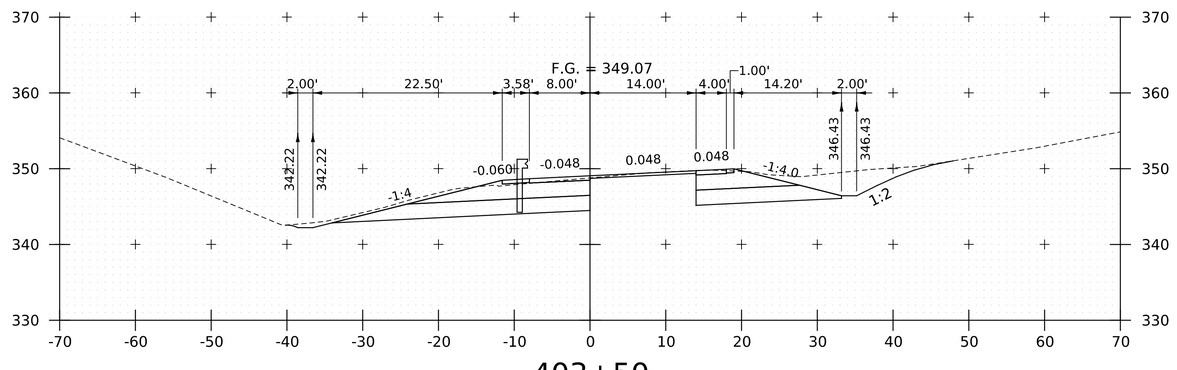

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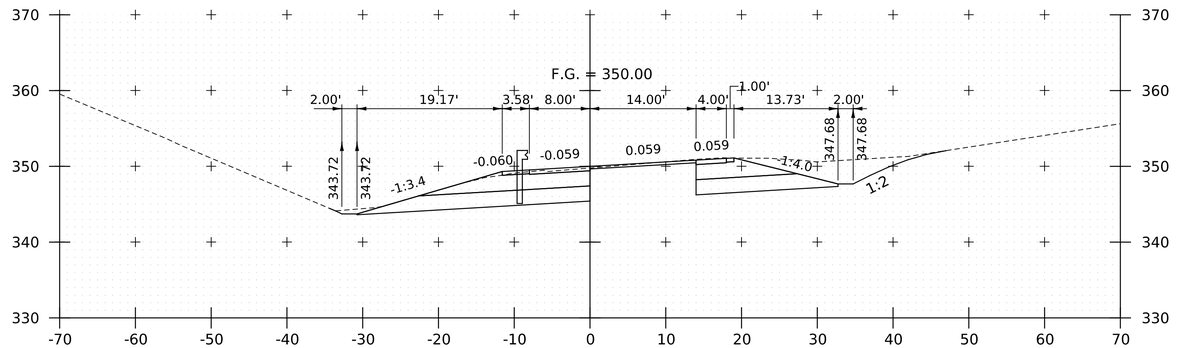

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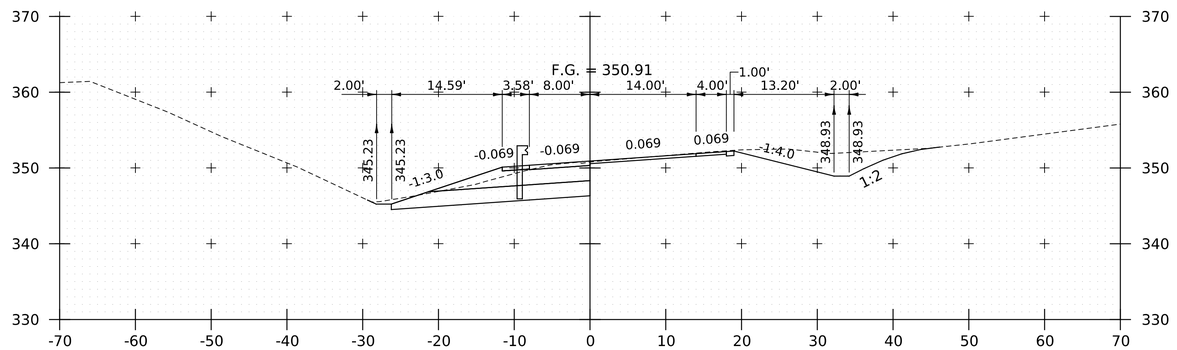

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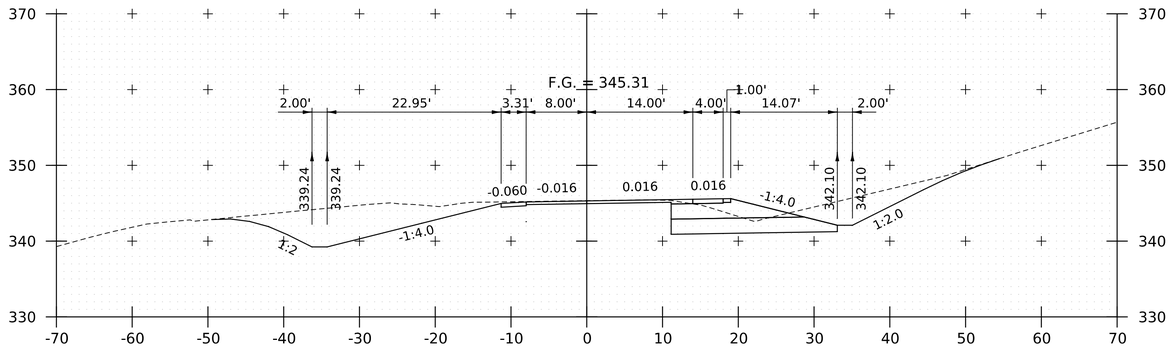
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)

FILE NAME:	z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	P. MCKECHNIE
DESIGNED BY:	P. MCKECHNIE	CHECKED BY:	C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 3		SHEET	599 OF 922

HNTB



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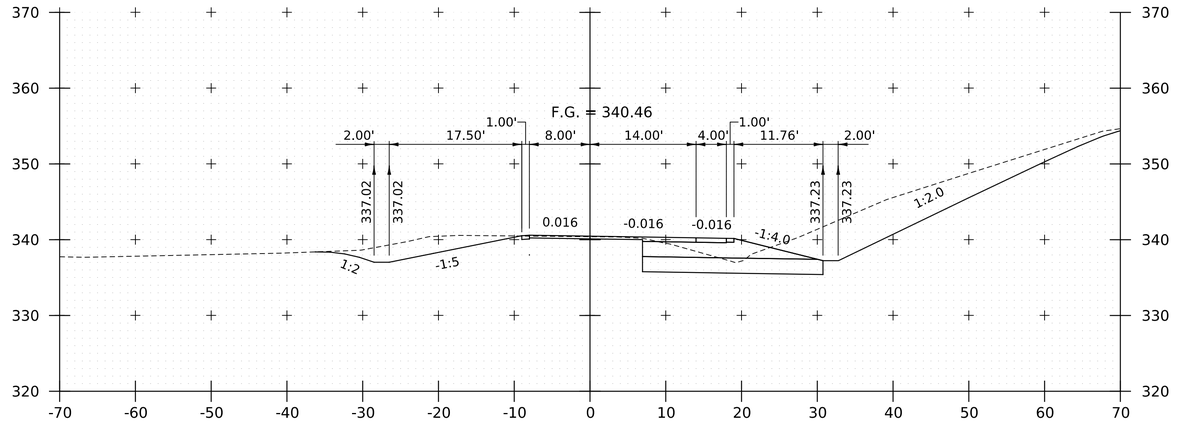

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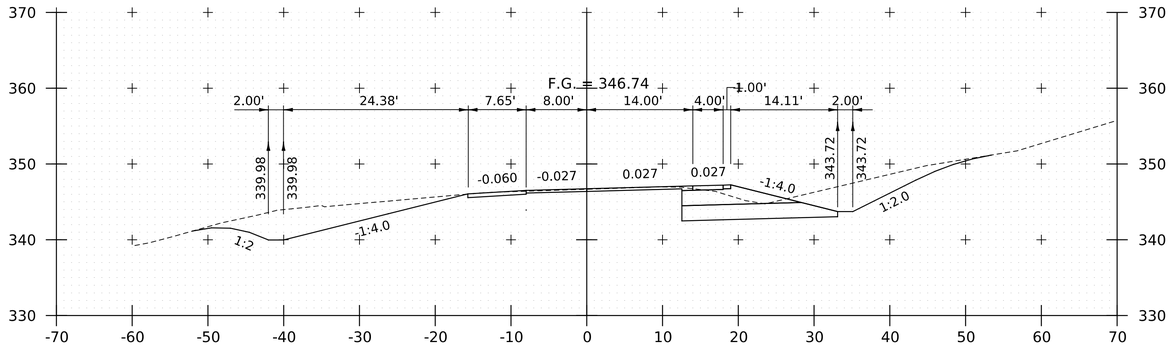

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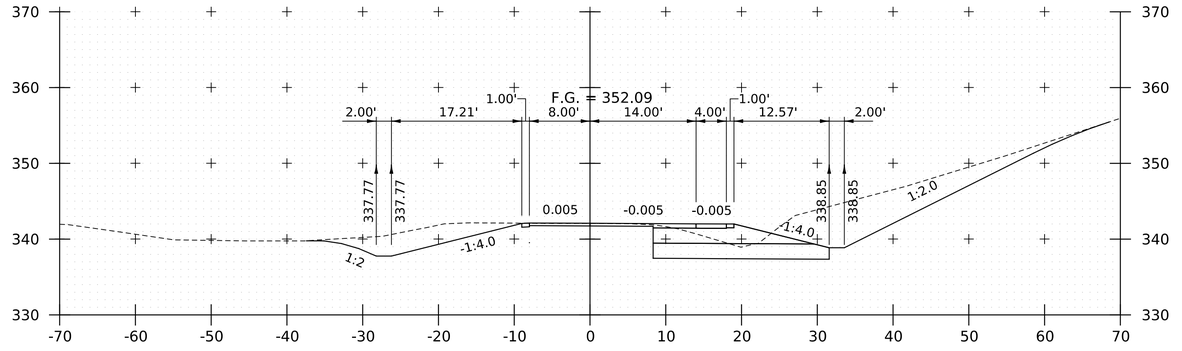

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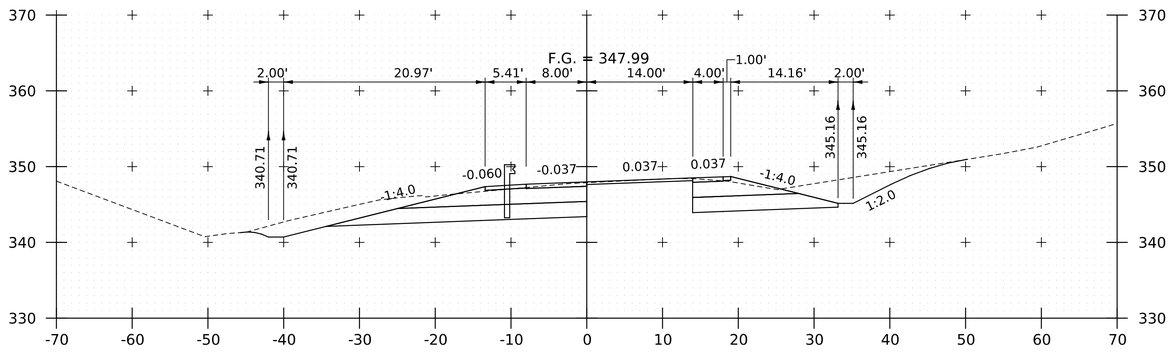
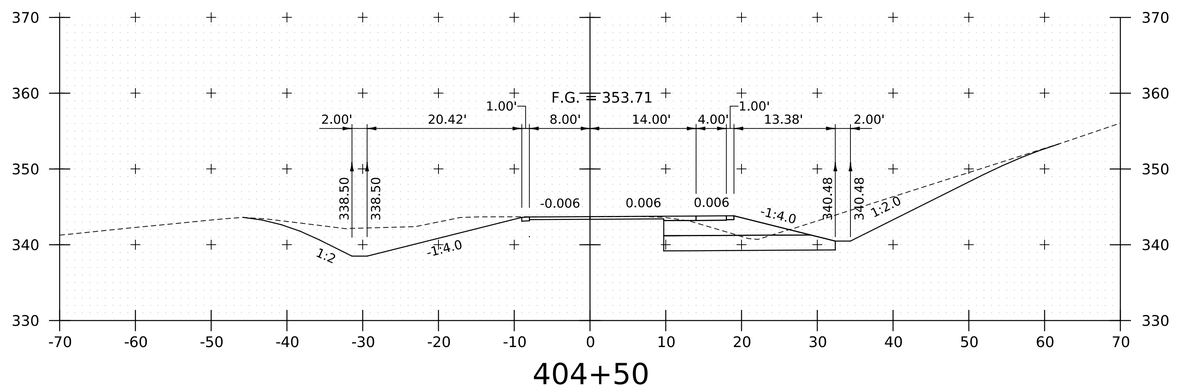


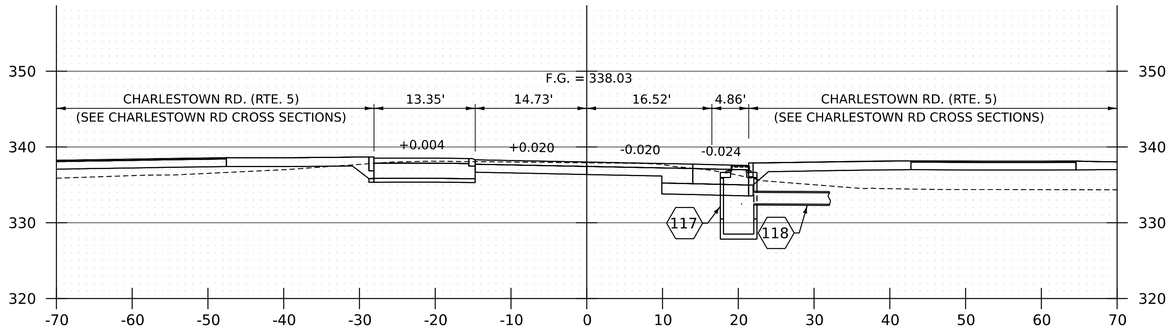
403+75



404+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)
FILE NAME: z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 4	SHEET 600 OF 922

HNTB



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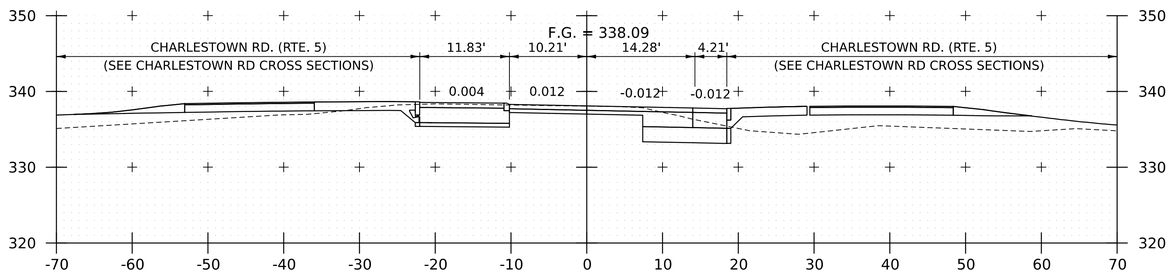

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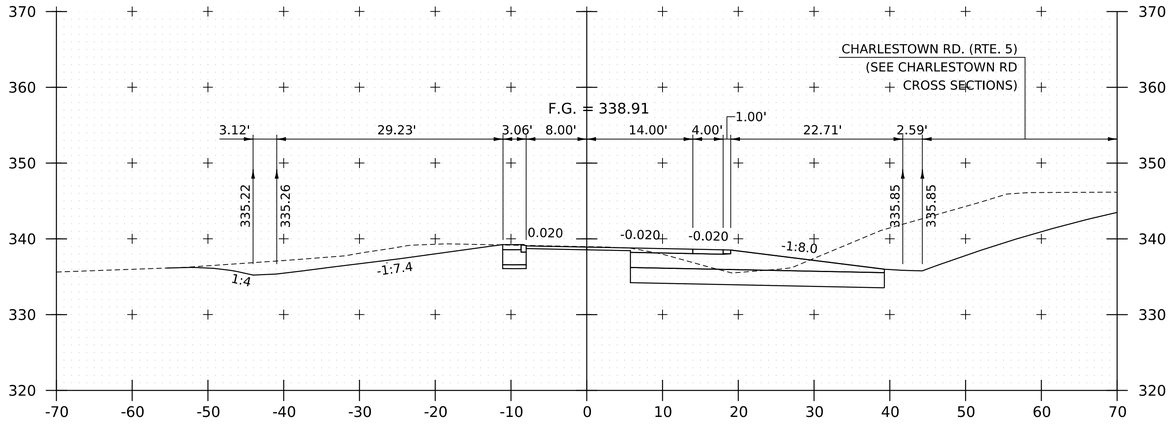
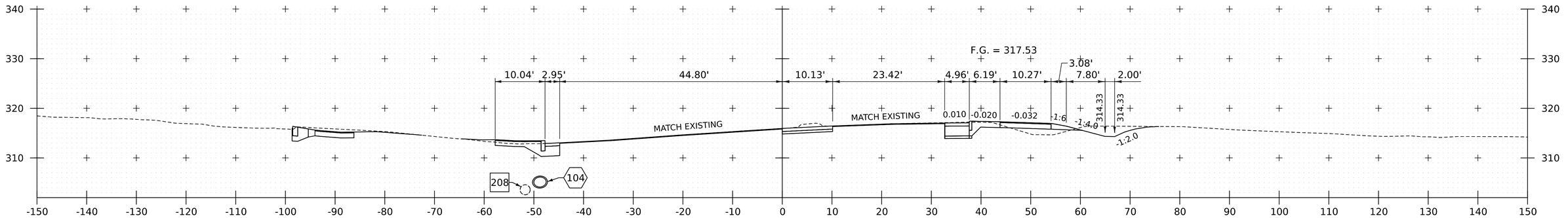


405+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-I(83)
FILE NAME: z12a574xs_I_91_SB_On_Ramp.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: P. MCKECHNIE
DESIGNED BY: P. MCKECHNIE	CHECKED BY: C. HELMICK
I-91 SB ON RAMP CROSS SECTIONS 5	SHEET 601 OF 922

HNTB



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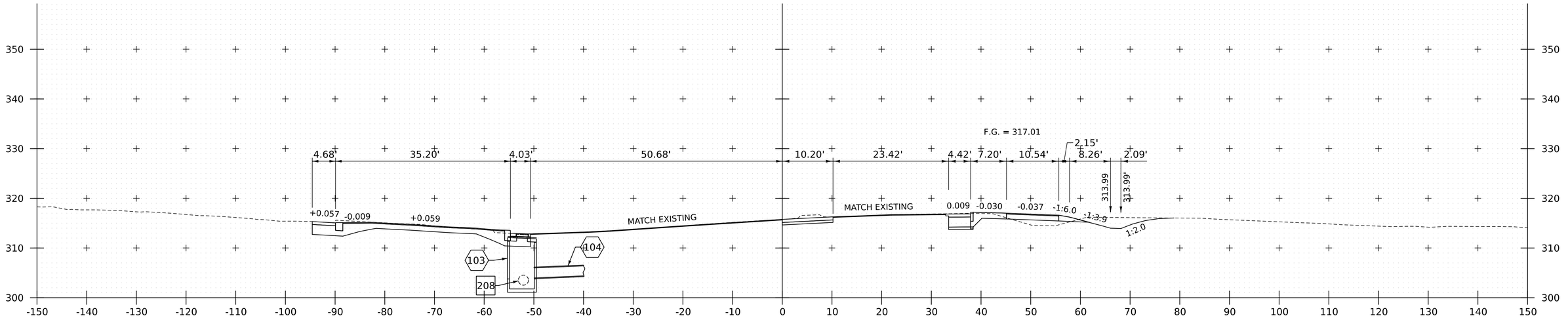

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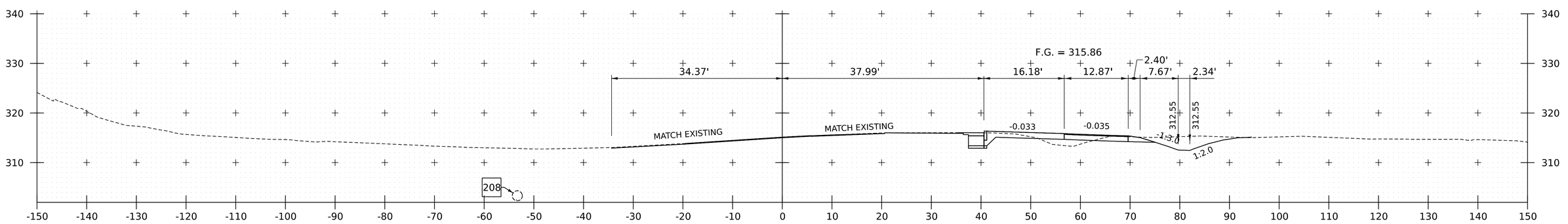
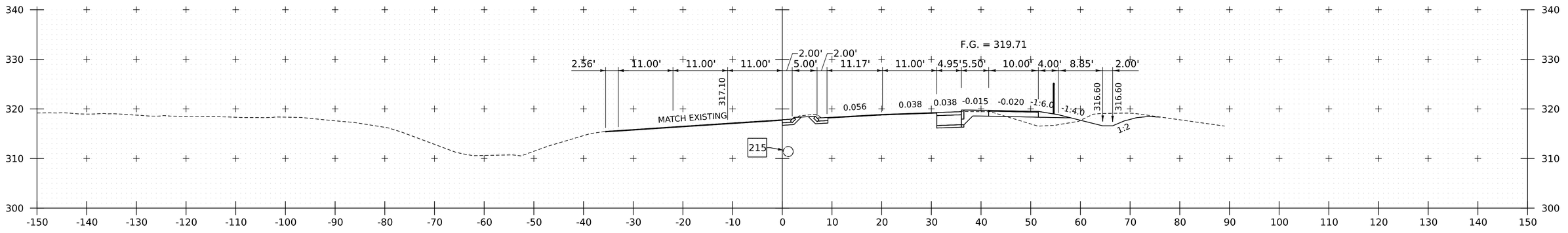


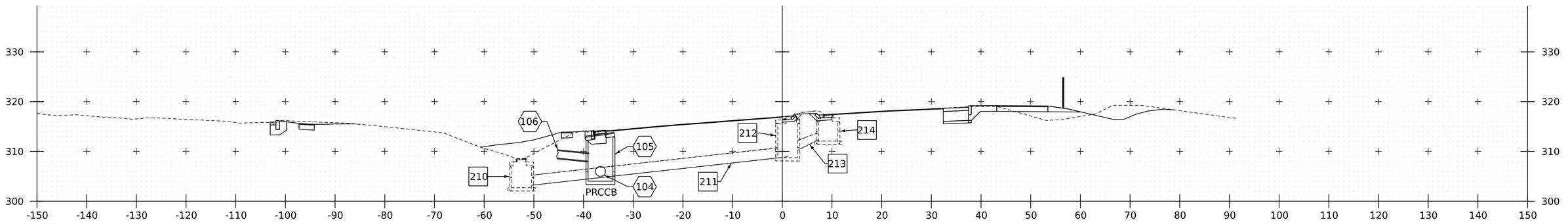
119+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 1	SHEET 602 OF 922

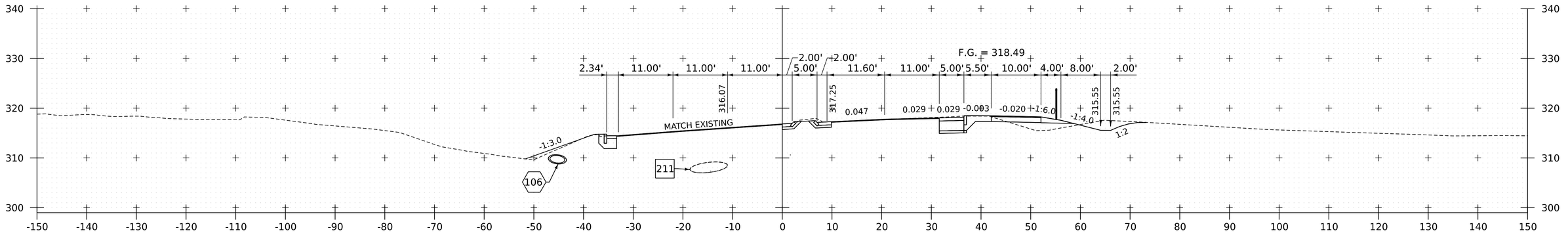
HNTB



120+50



120+29 (SKEWED ALONG PIPE)

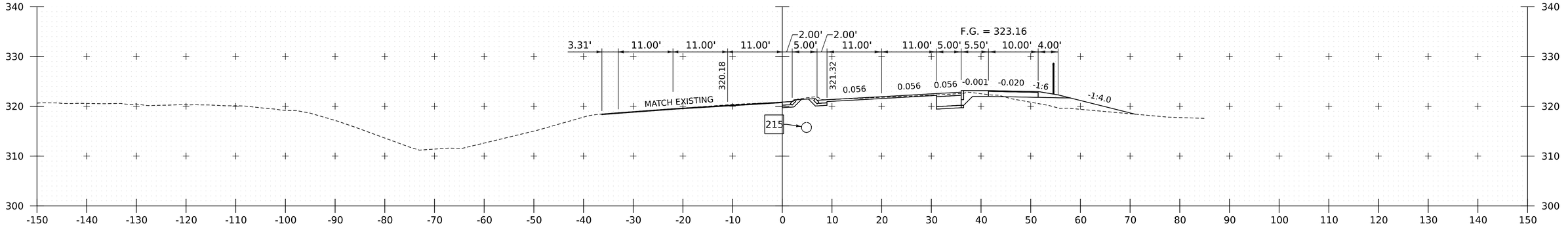


120+25

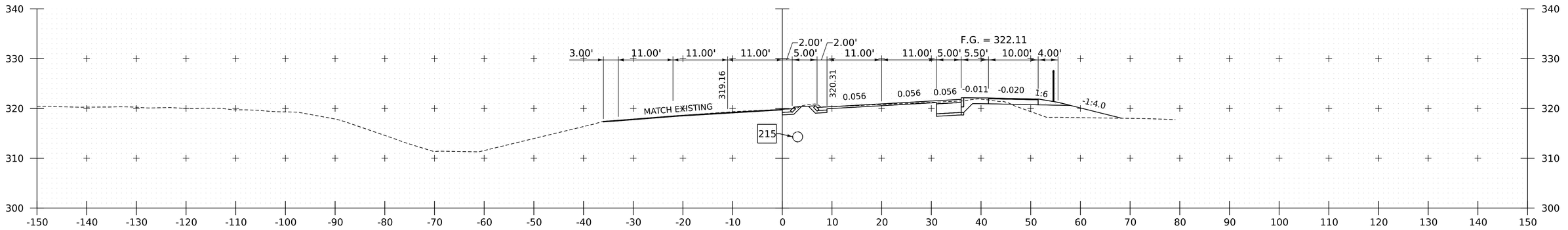
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 2		SHEET	603 OF 922

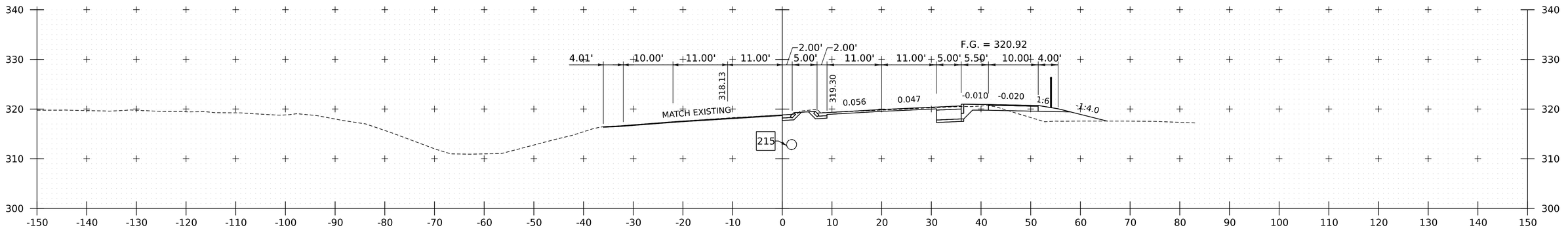
HNTB



121+25



121+00



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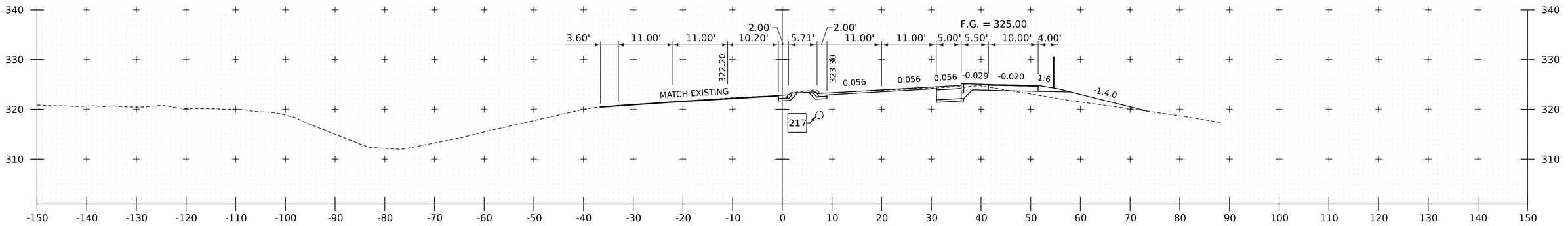
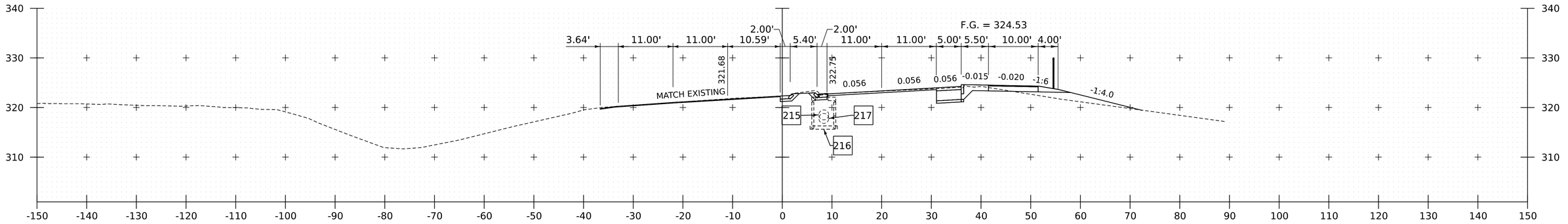
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

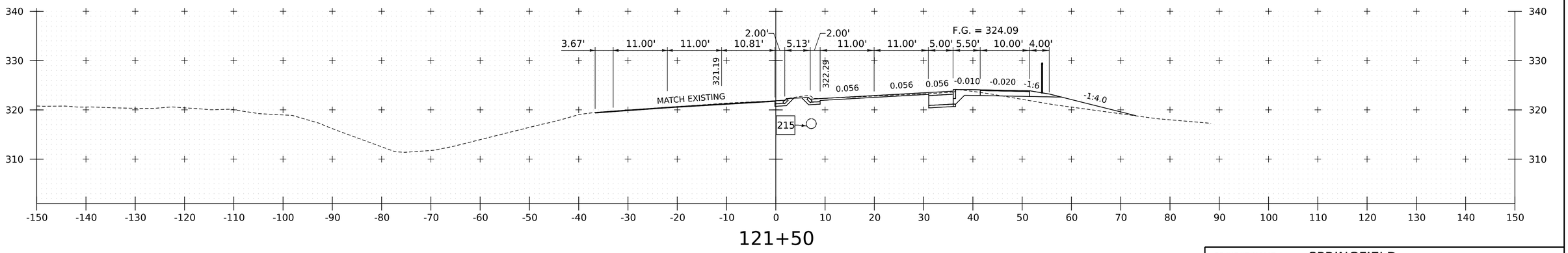
FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 3		SHEET	604 OF 922



121+75



121+62

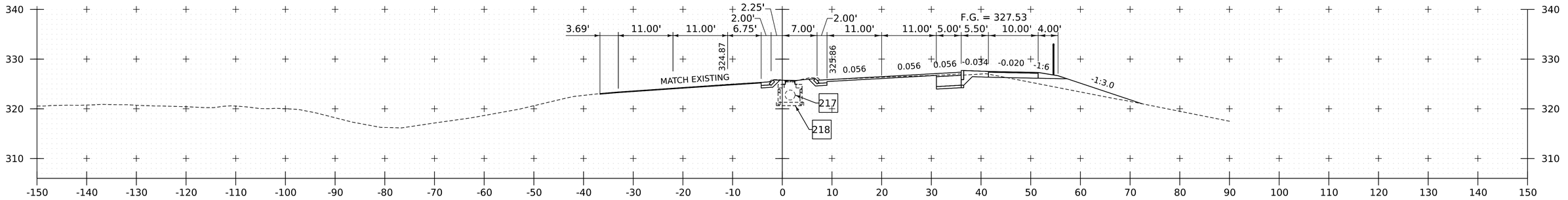


121+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 4		SHEET	605 OF 922

HNTB



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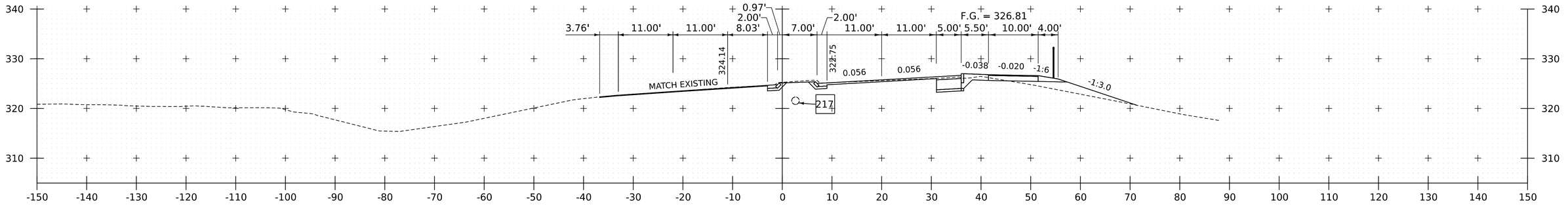
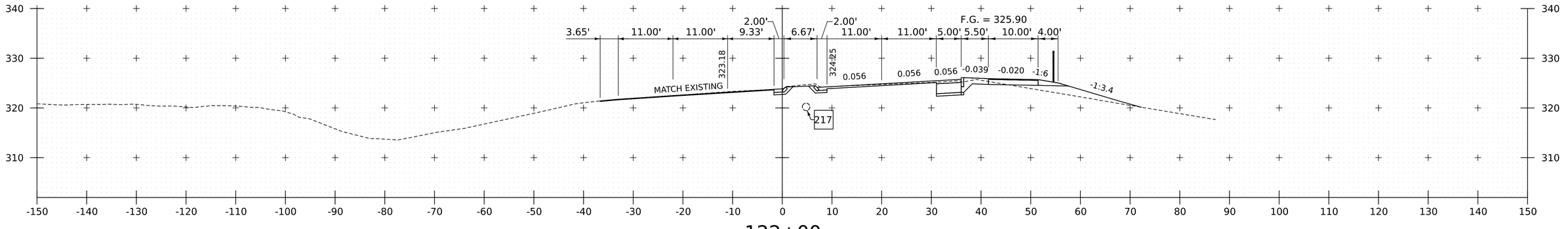


122+25

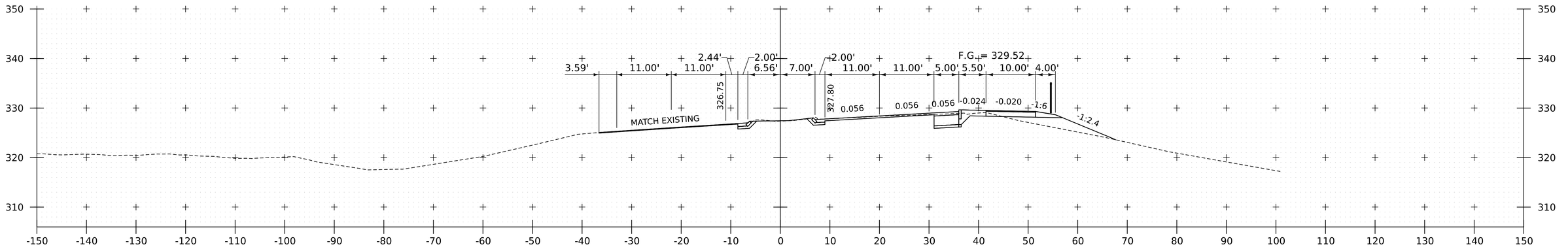


122+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 5		SHEET	606 OF 922

HNTB



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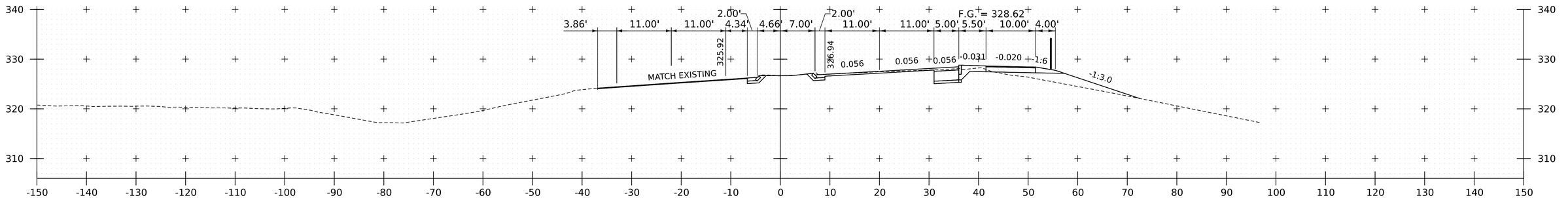

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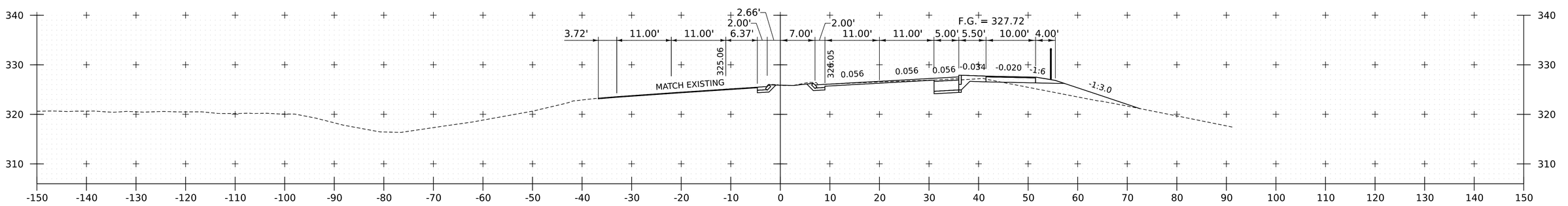
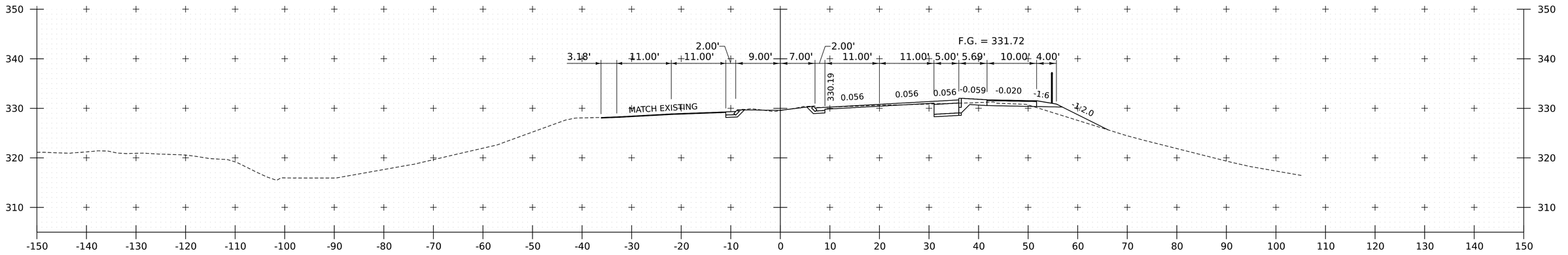


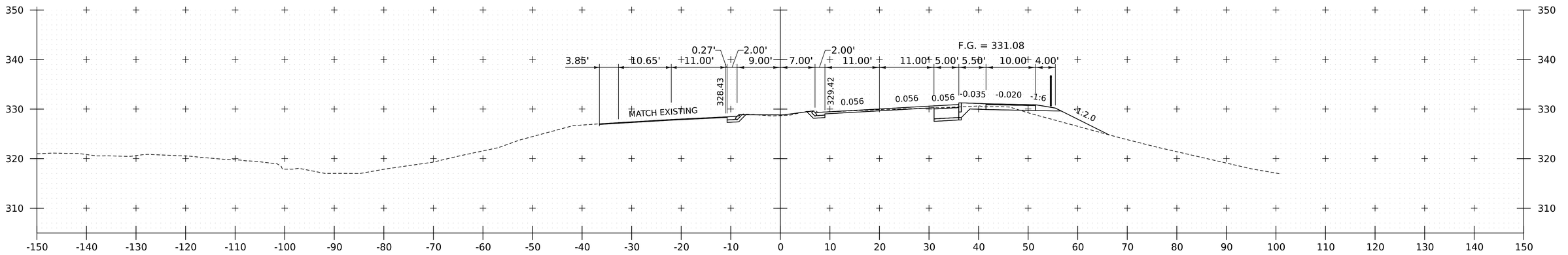
122+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 6		SHEET	607 OF 922



123+75



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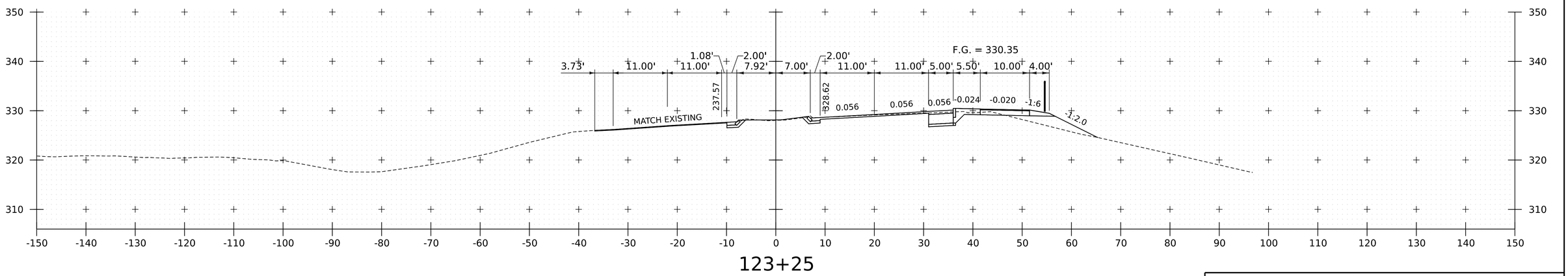
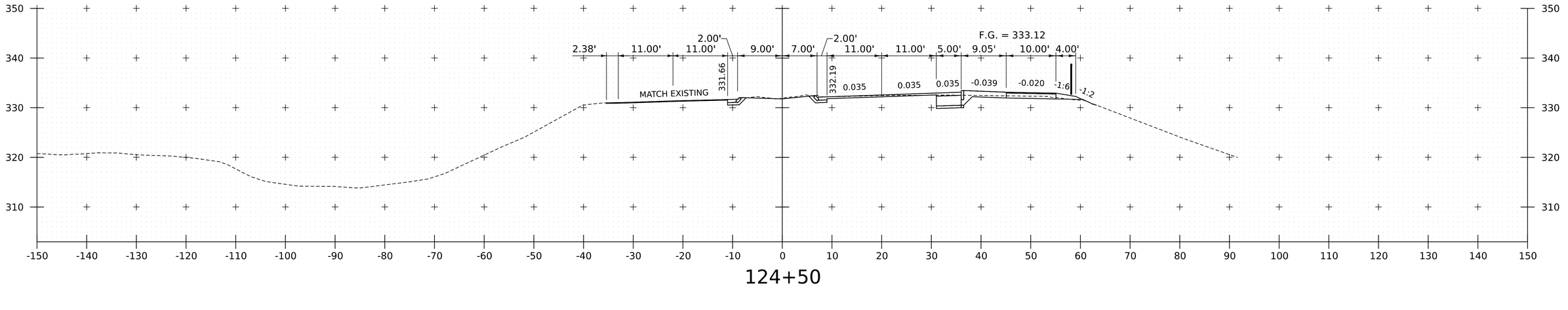


123+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 7		SHEET	608 OF 922



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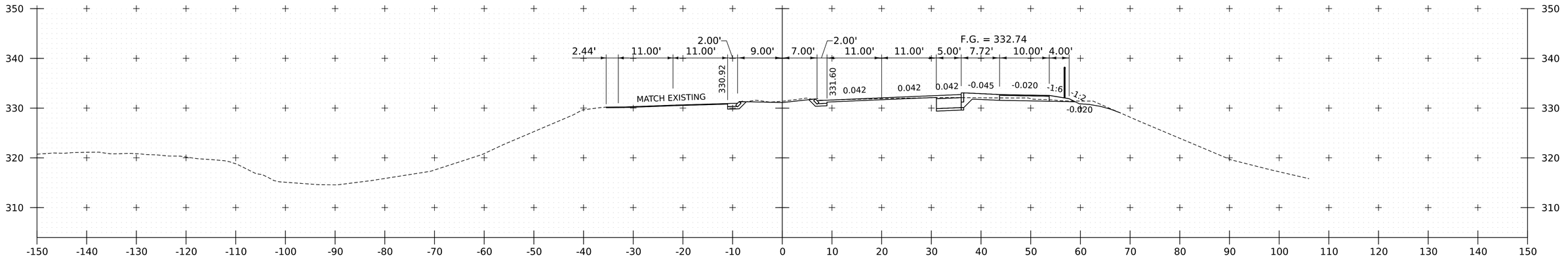

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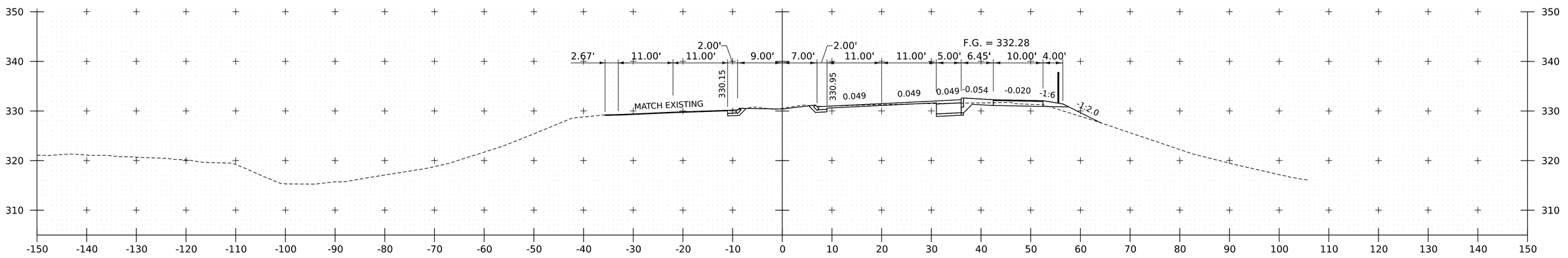
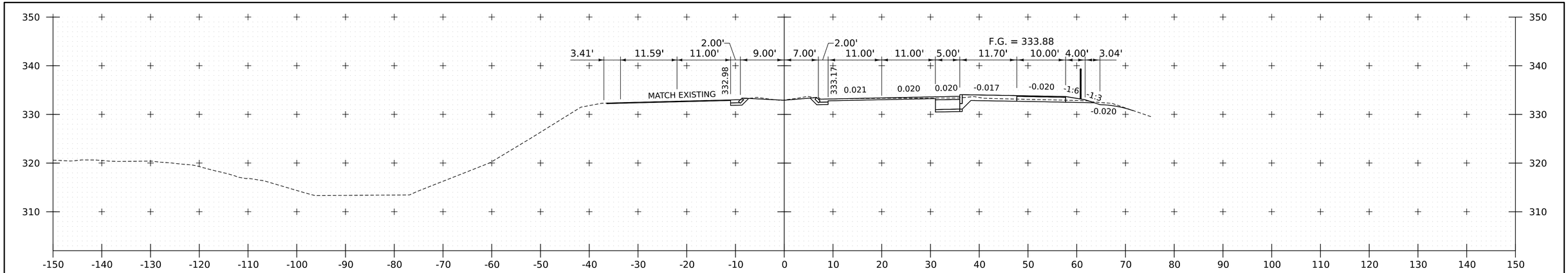


124+00

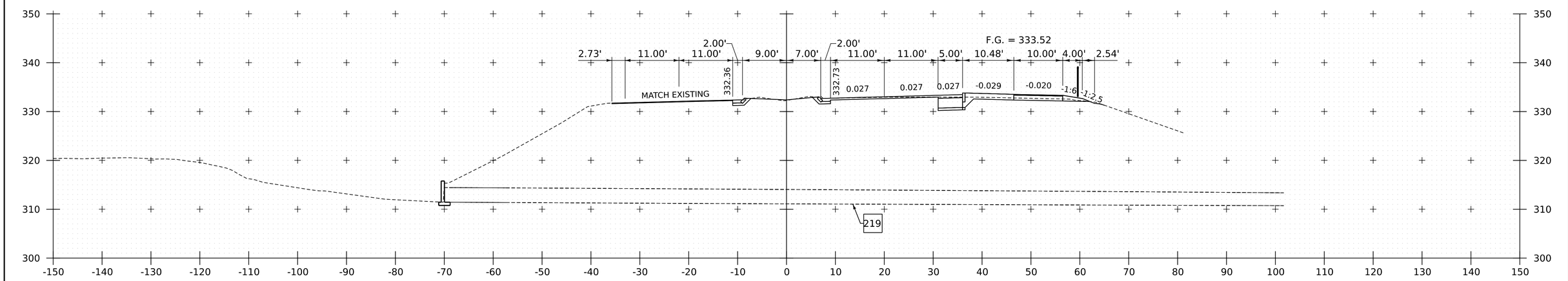
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 8		SHEET	609 OF 922

HNTB



125+00



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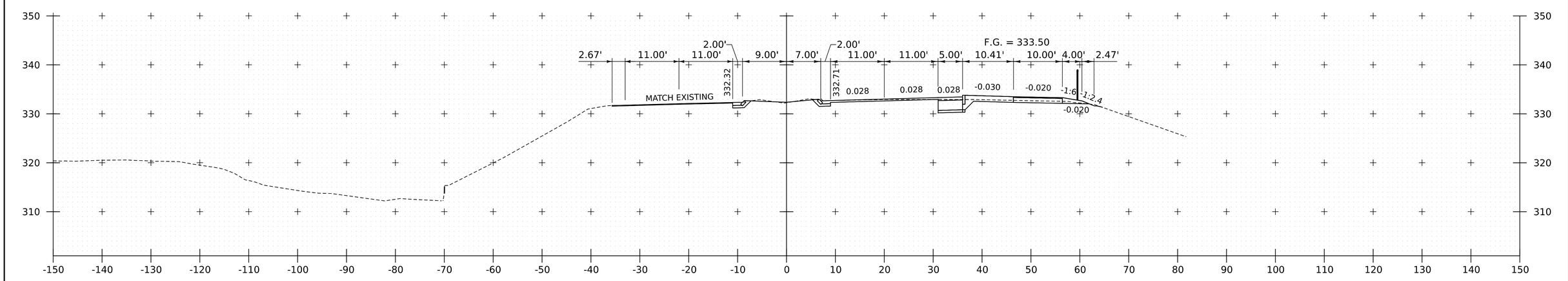
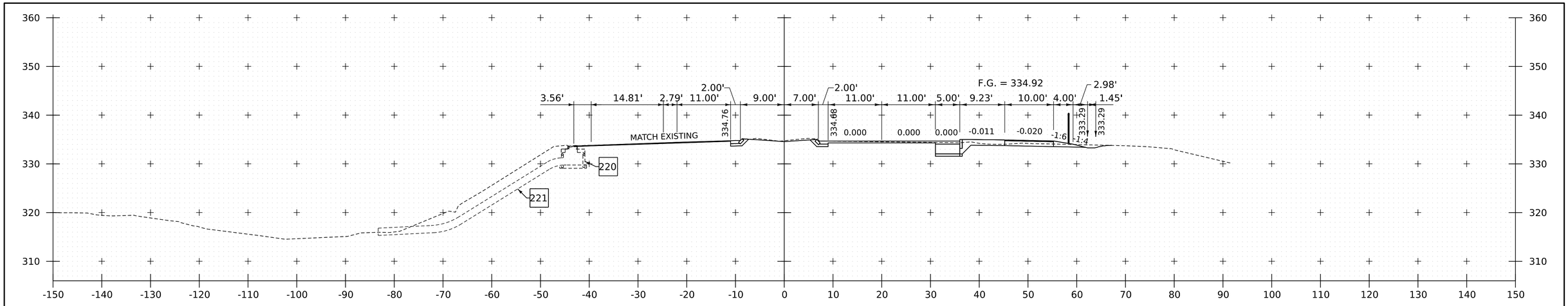


124+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 9		SHEET	610 OF 922



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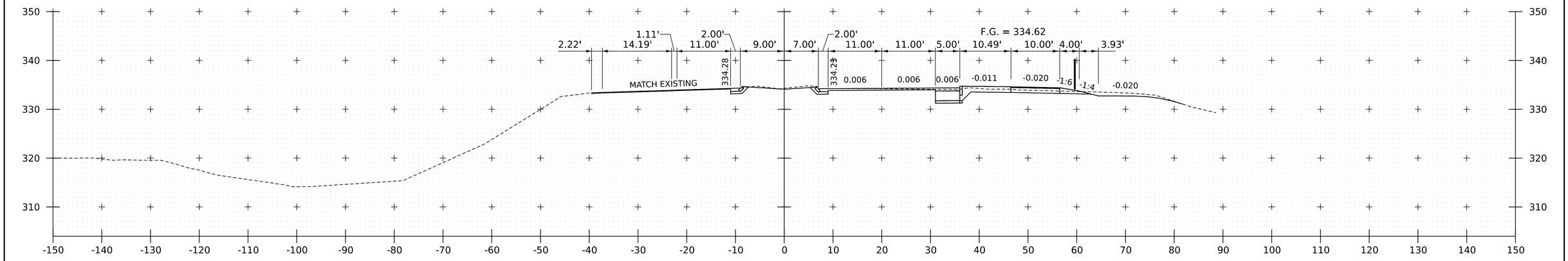
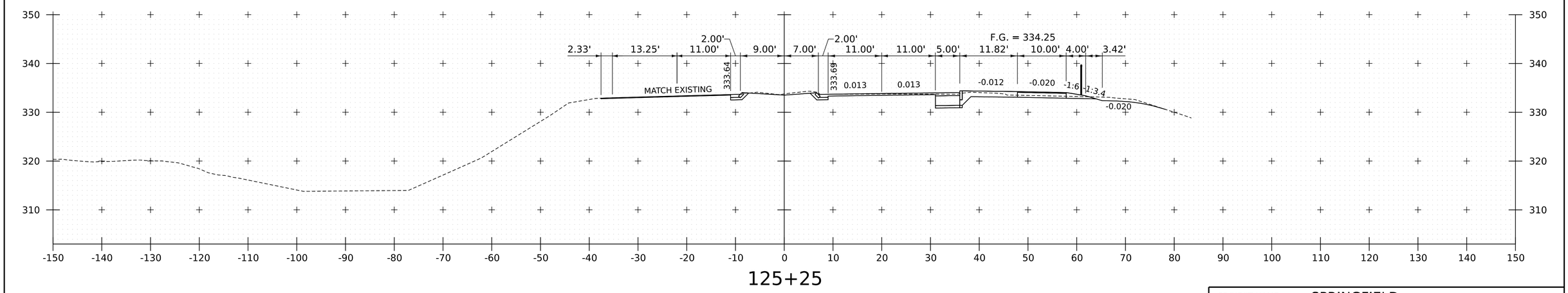


125+50

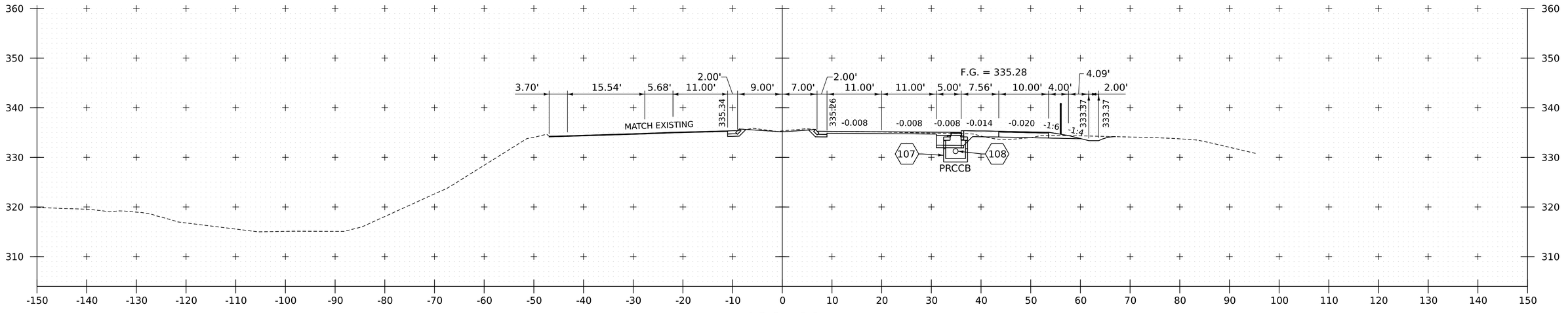


125+25

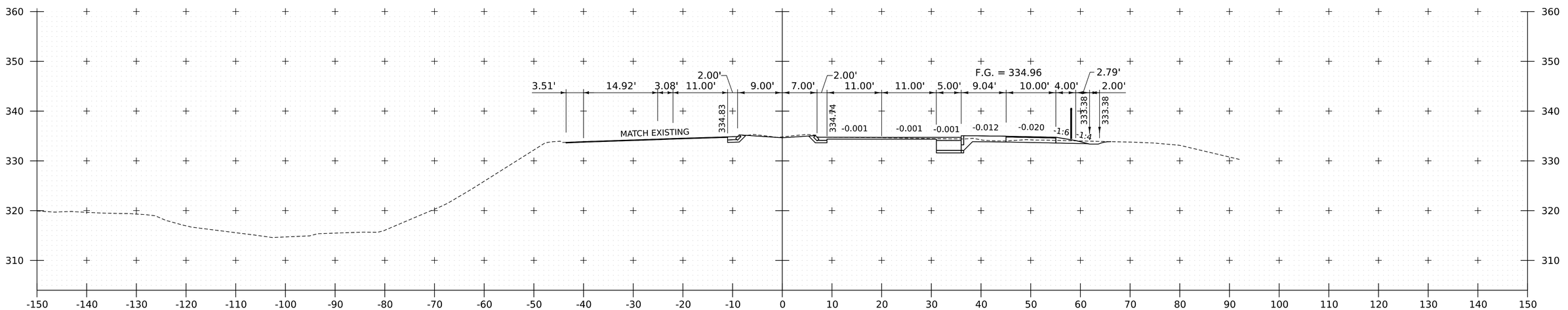
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 10		SHEET	611 OF 922

HNTB



126+00

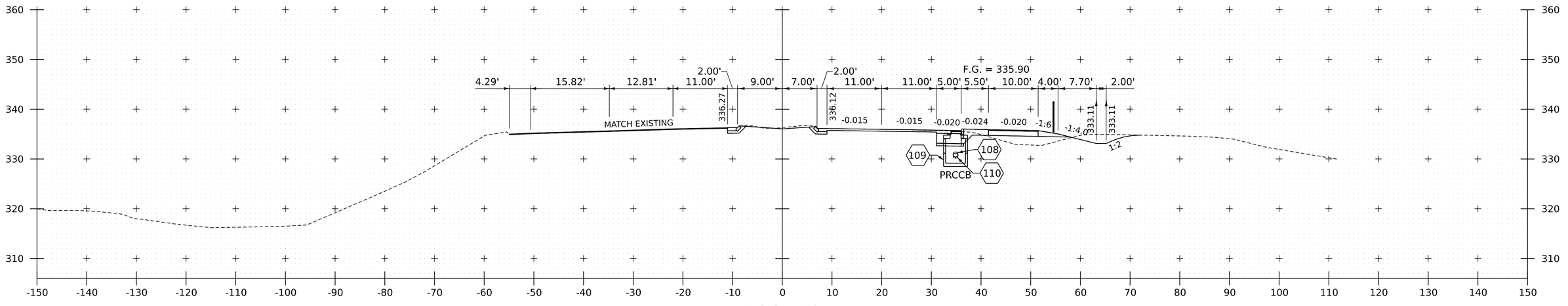


125+75

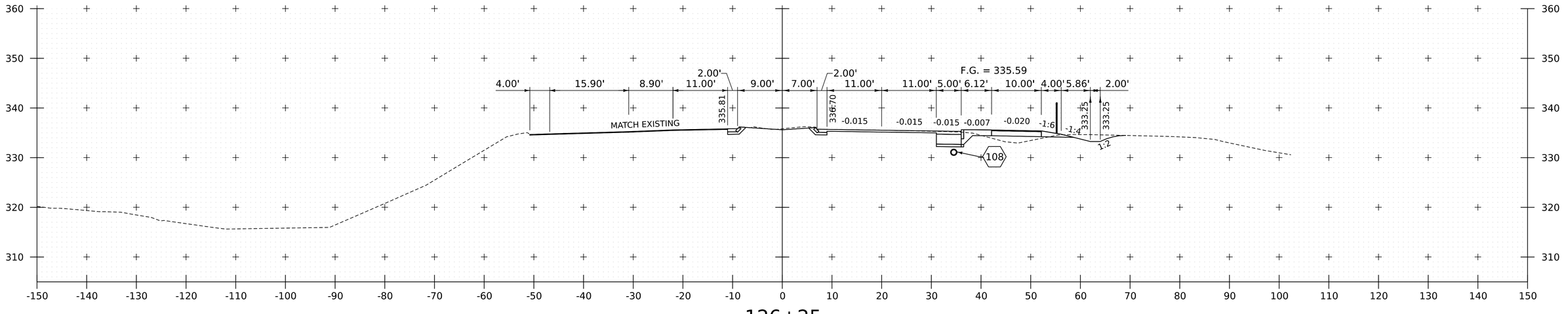
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 11		SHEET	612 OF 922

HNTB



126+50

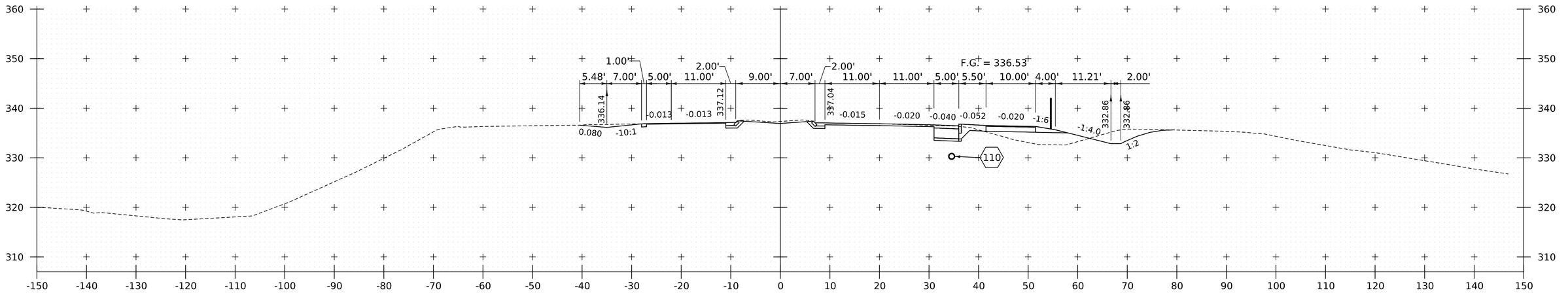


126+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 12		SHEET	613 OF 922

HNTB



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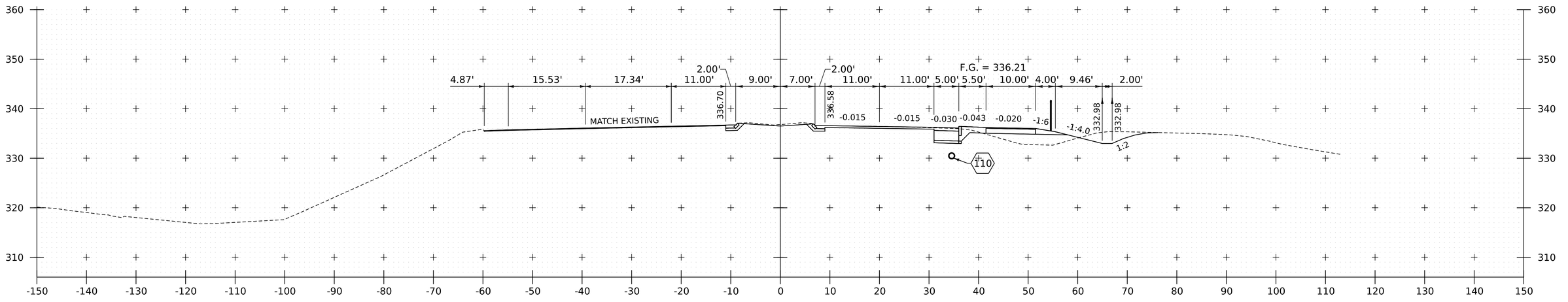

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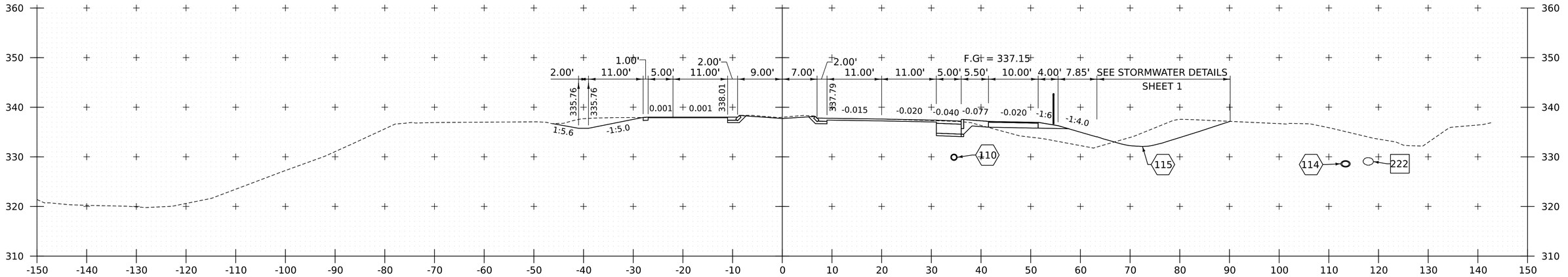
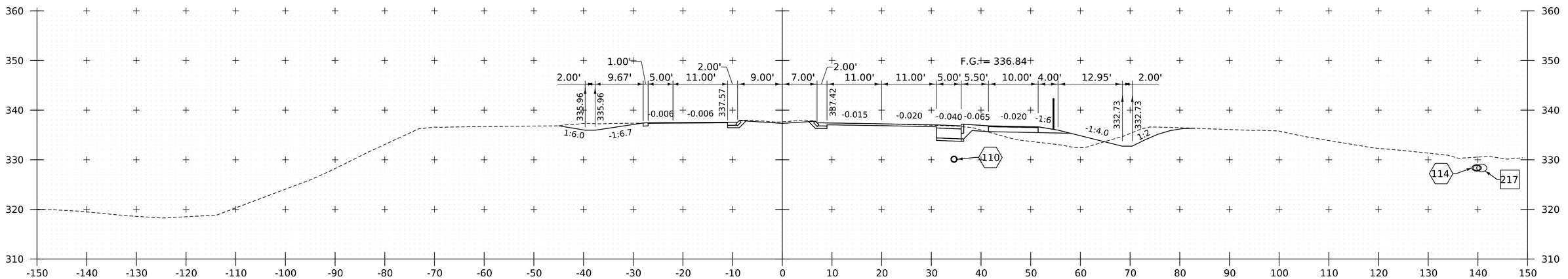
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 13		SHEET	614 OF 922

HNTB



127+50



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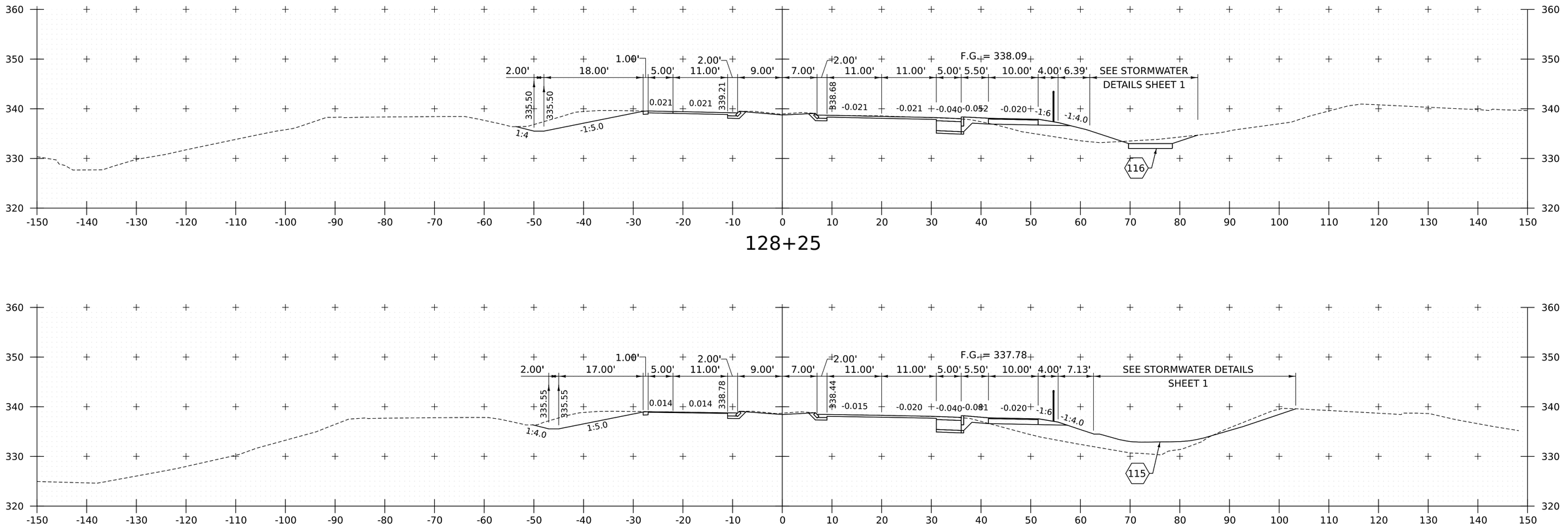
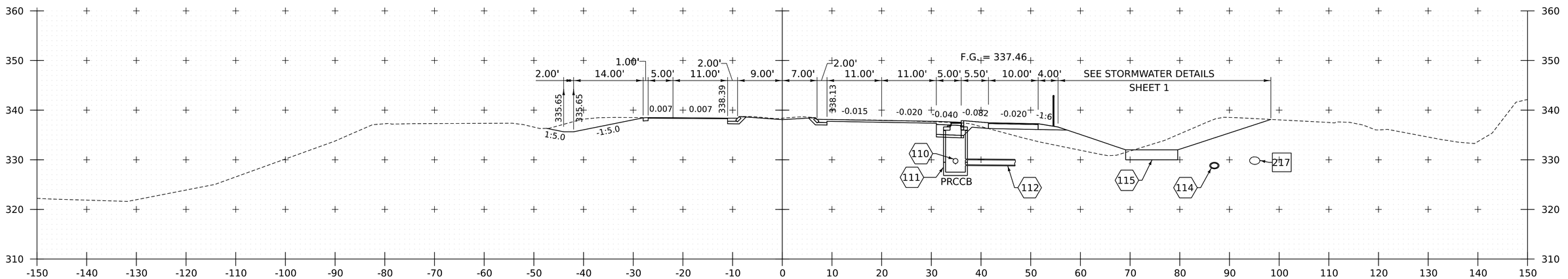
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 14		SHEET 615	OF 922



128+25

128+00



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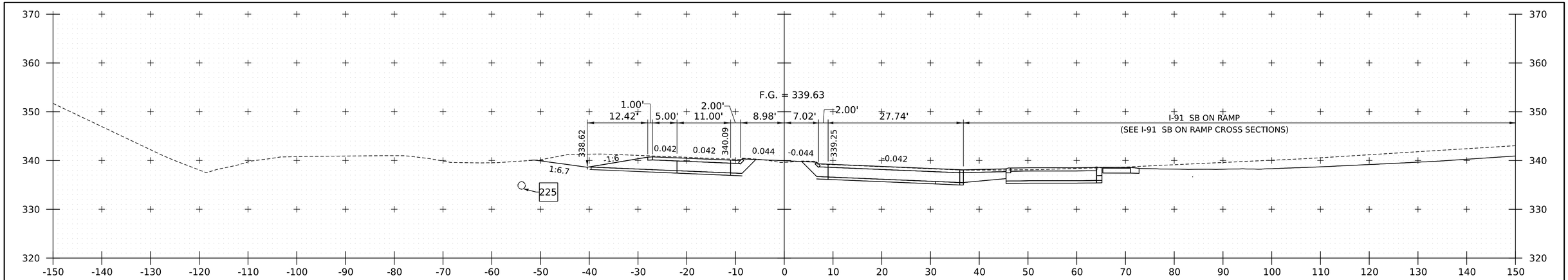
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 15	SHEET 616 OF 922

HNTB



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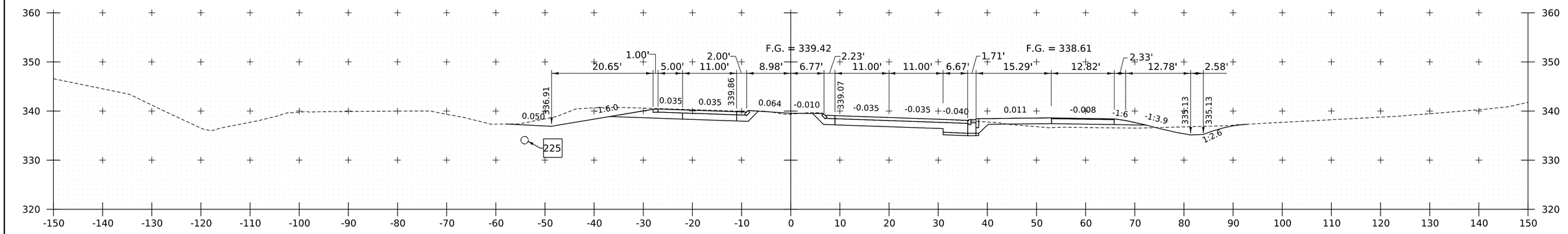

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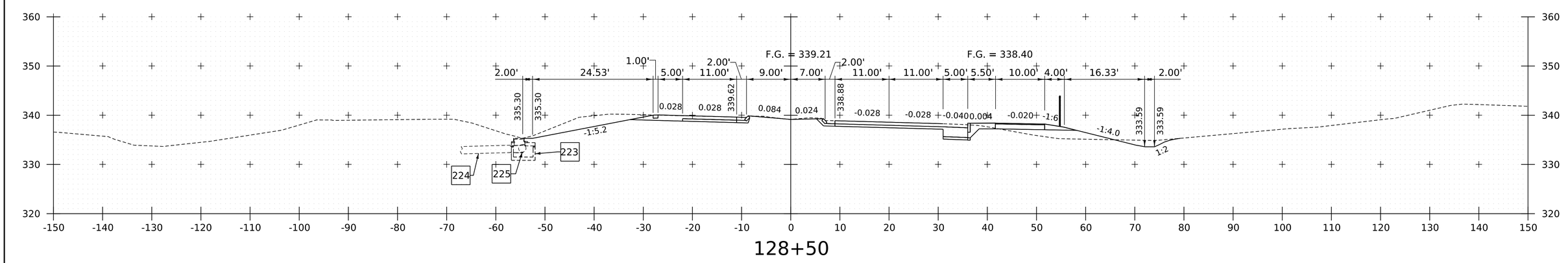
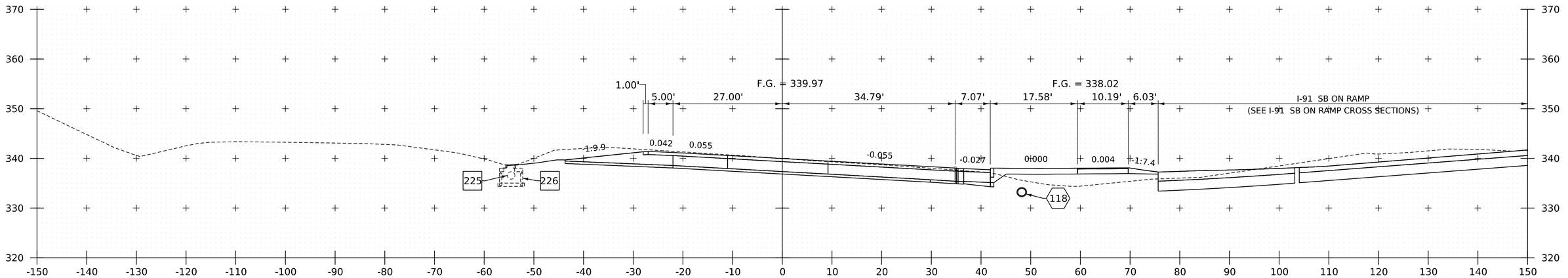


128+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 16	SHEET 617 OF 922

HNTB



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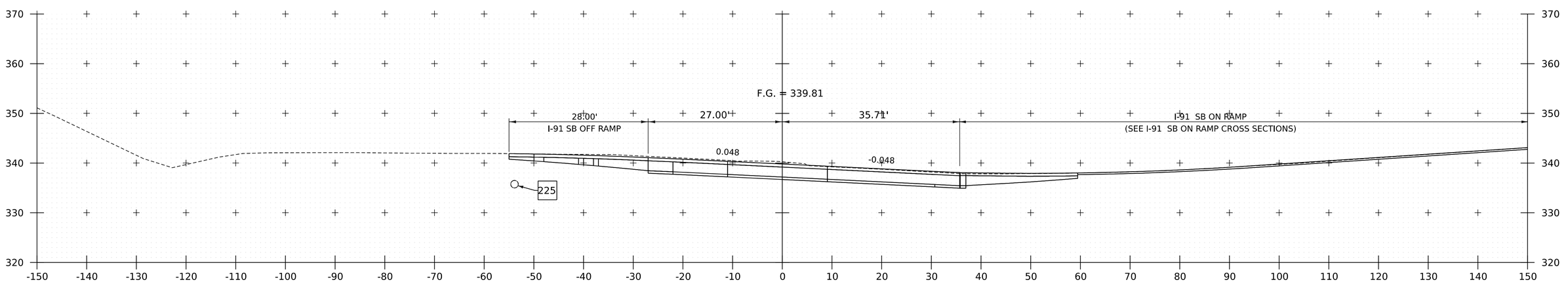

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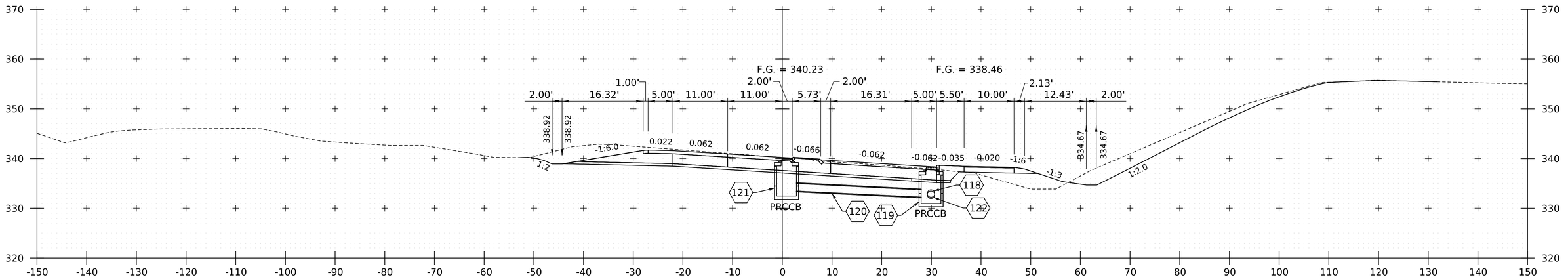
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 17		SHEET	618 OF 922

HNTB



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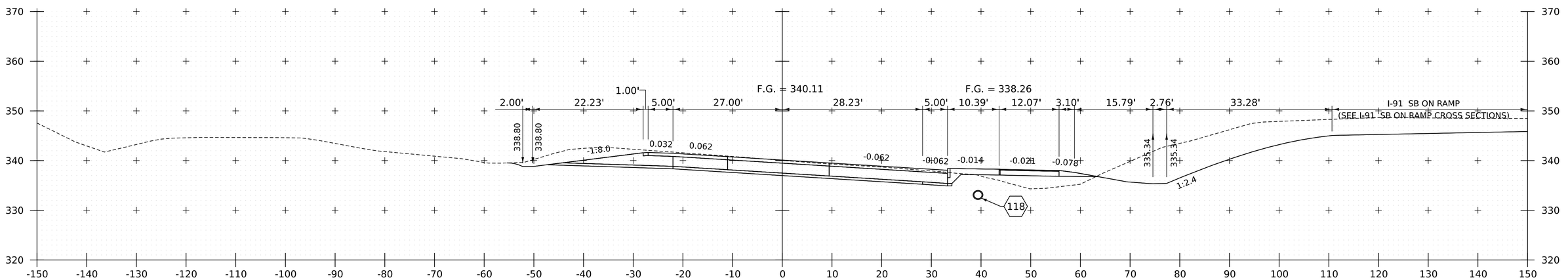

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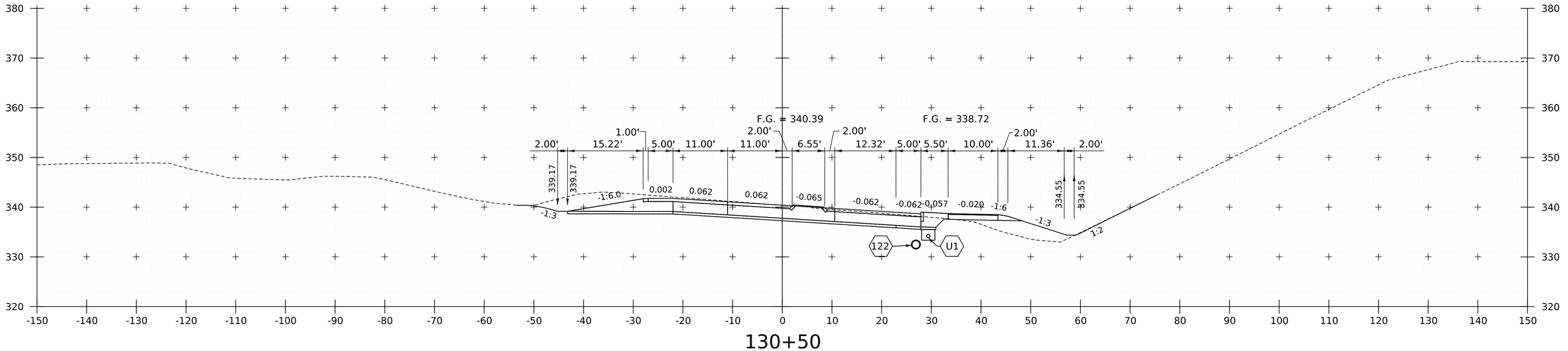
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 18		SHEET	619 OF 922

HNTB



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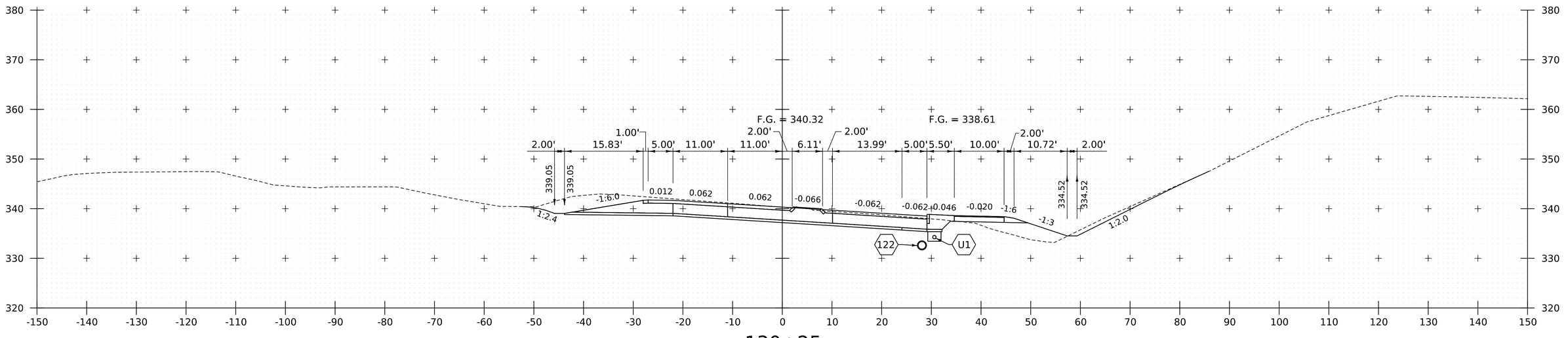

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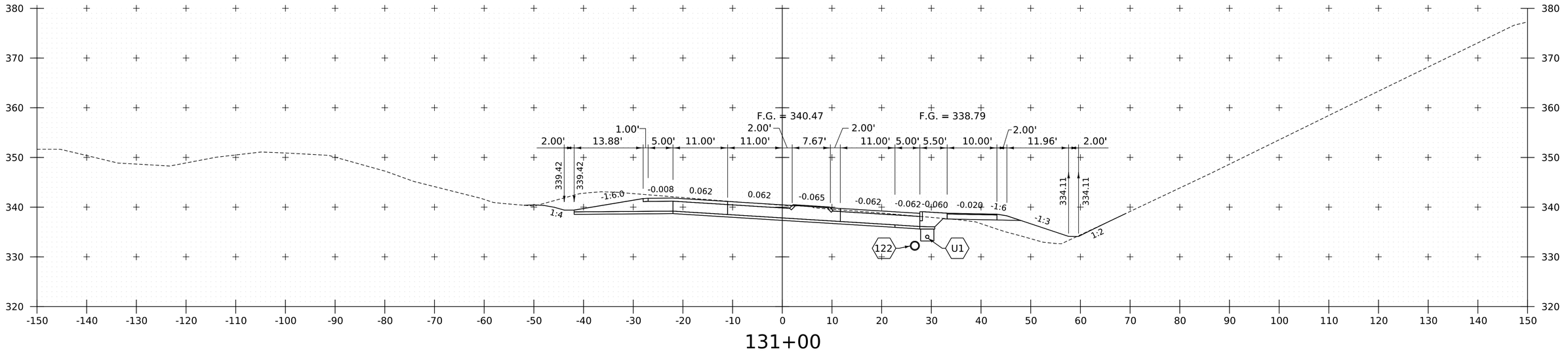
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 19	SHEET 620 OF 922

HNTB



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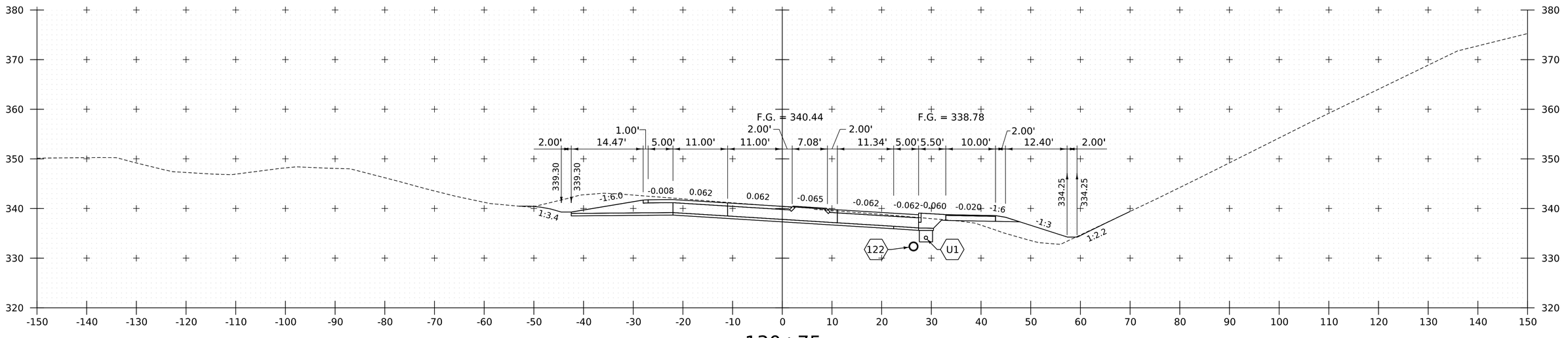

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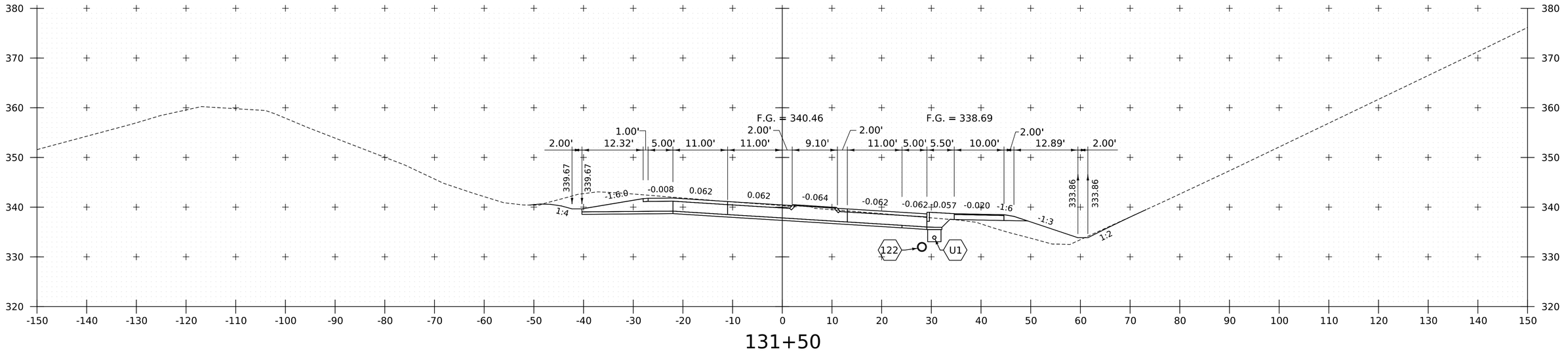
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 20	SHEET 621 OF 922

HNTB



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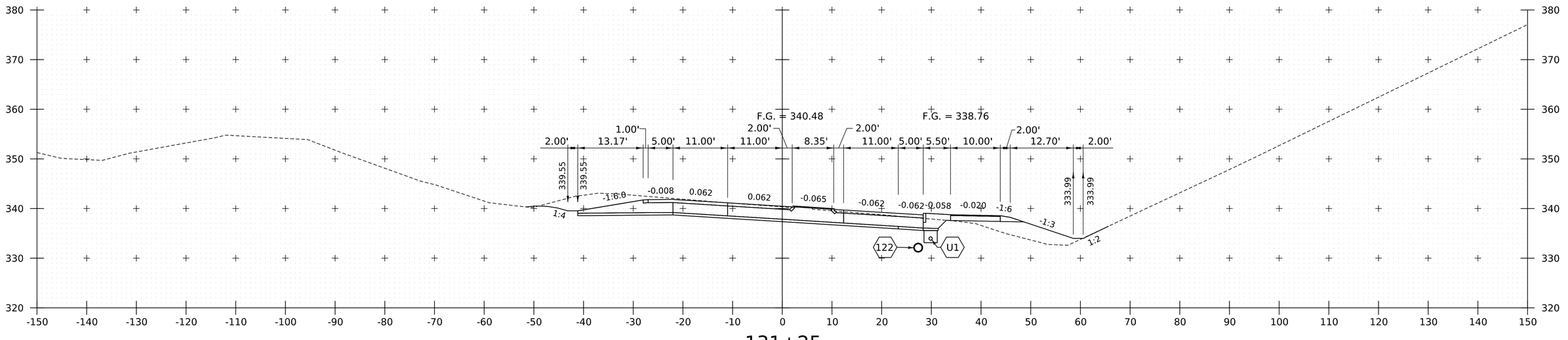

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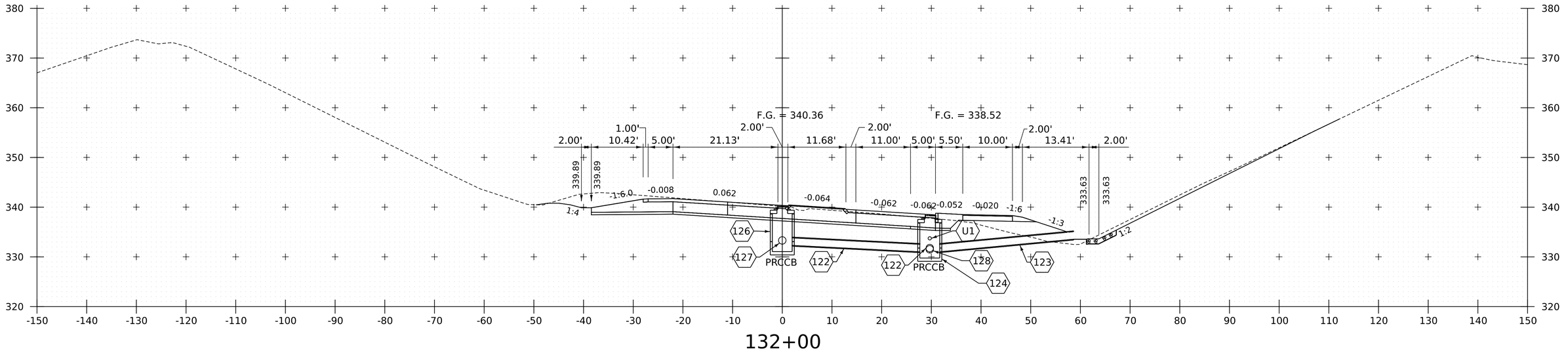
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 21	SHEET 622 OF 922

HNTB



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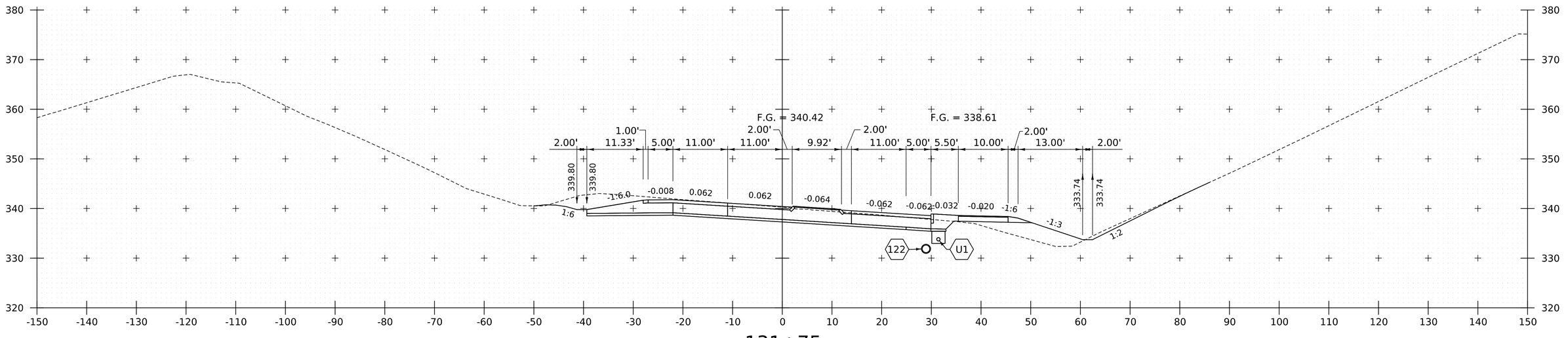

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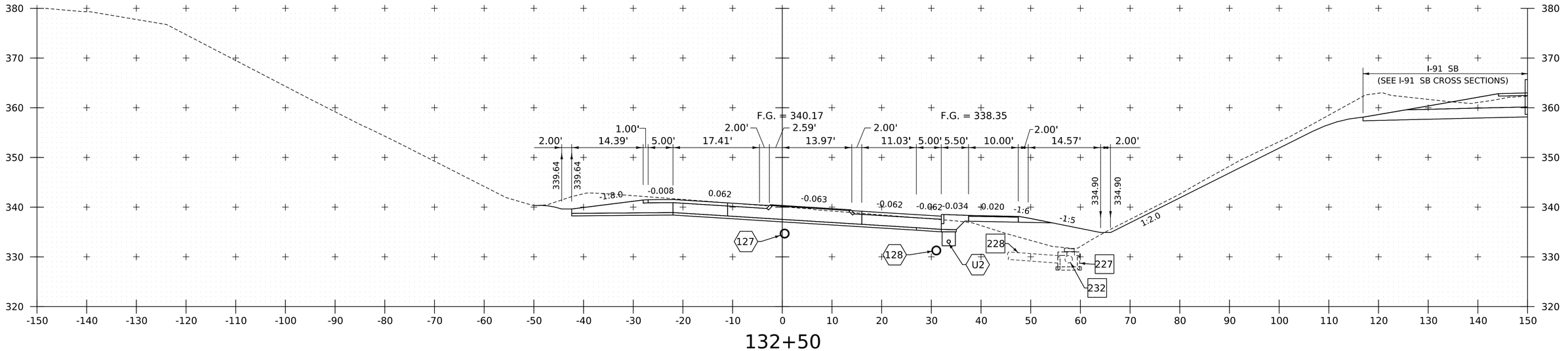
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 22	SHEET 623 OF 922

HNTB



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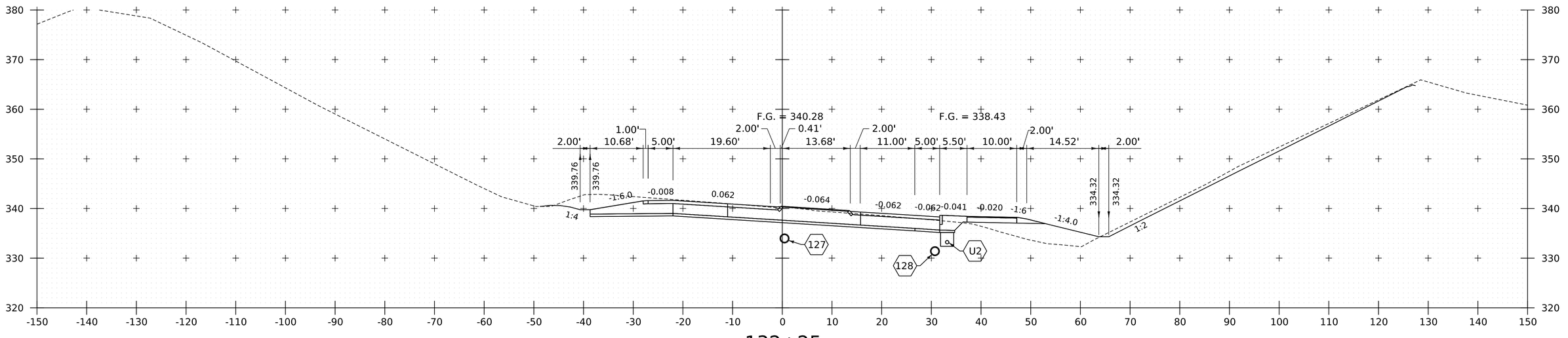

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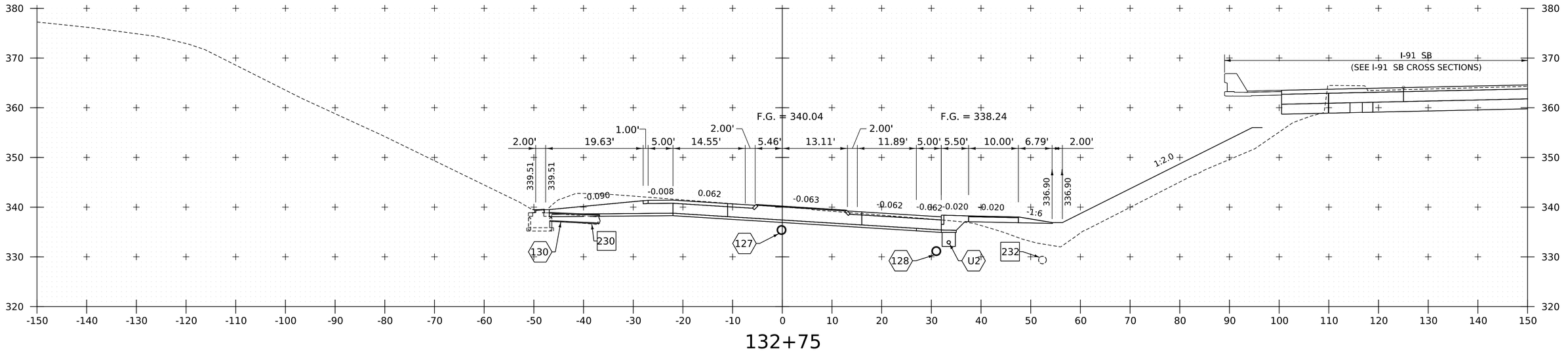
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 23	SHEET 624 OF 922

HNTB



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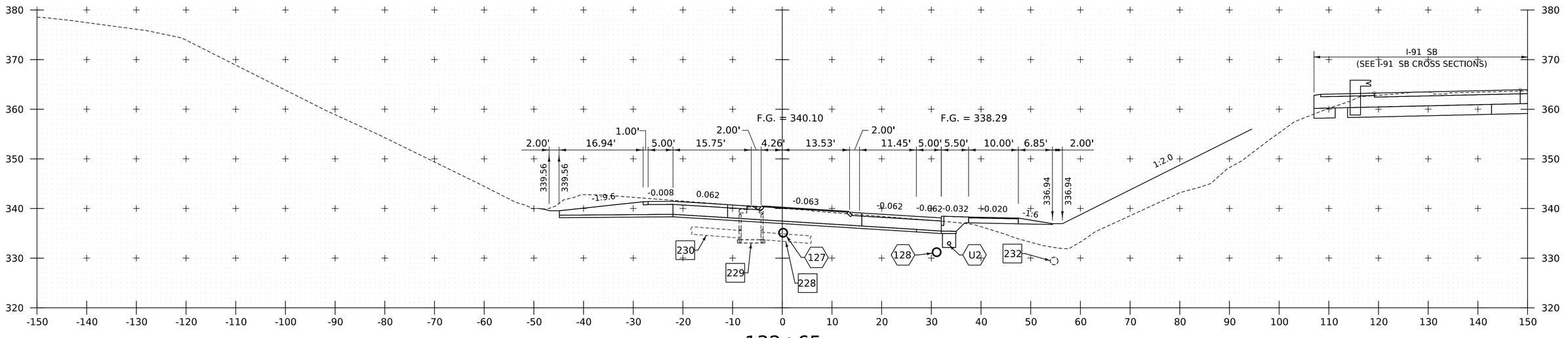

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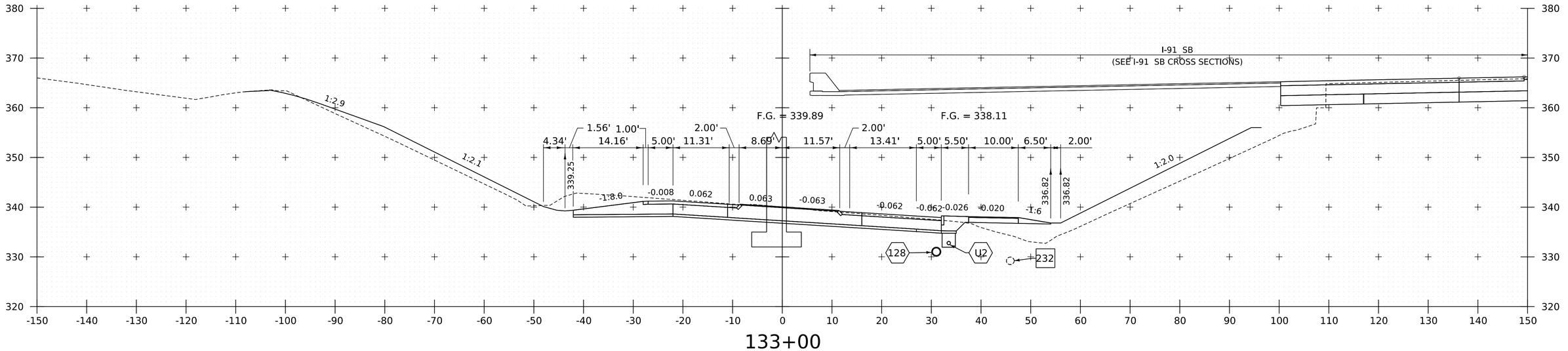
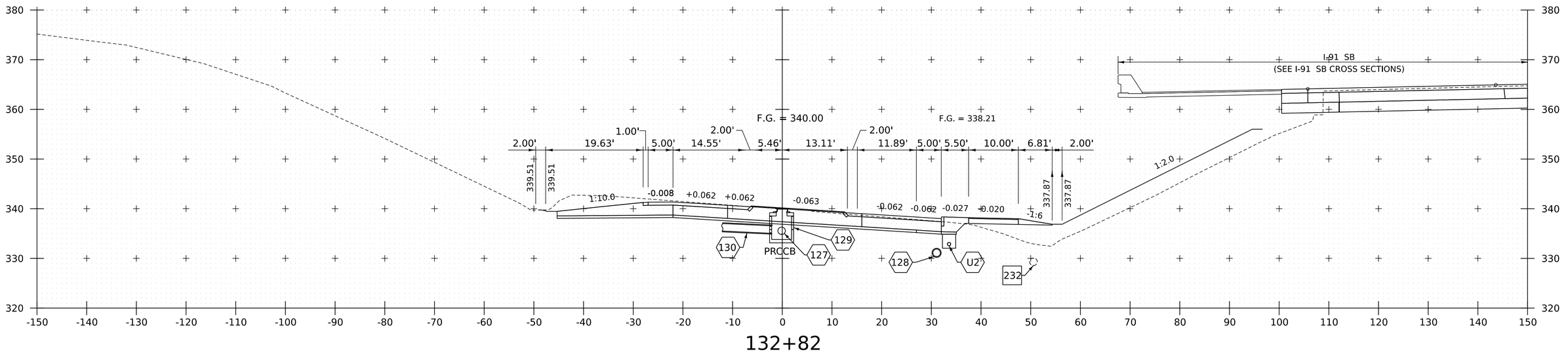
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 24	SHEET 625 OF 922

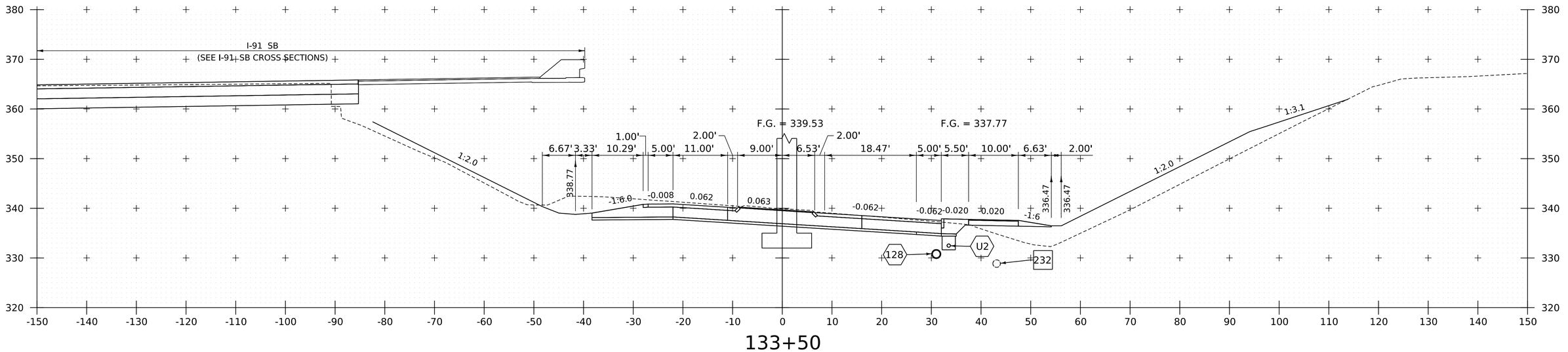
HNTB





PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 25	SHEET 626 OF 922

HNTB



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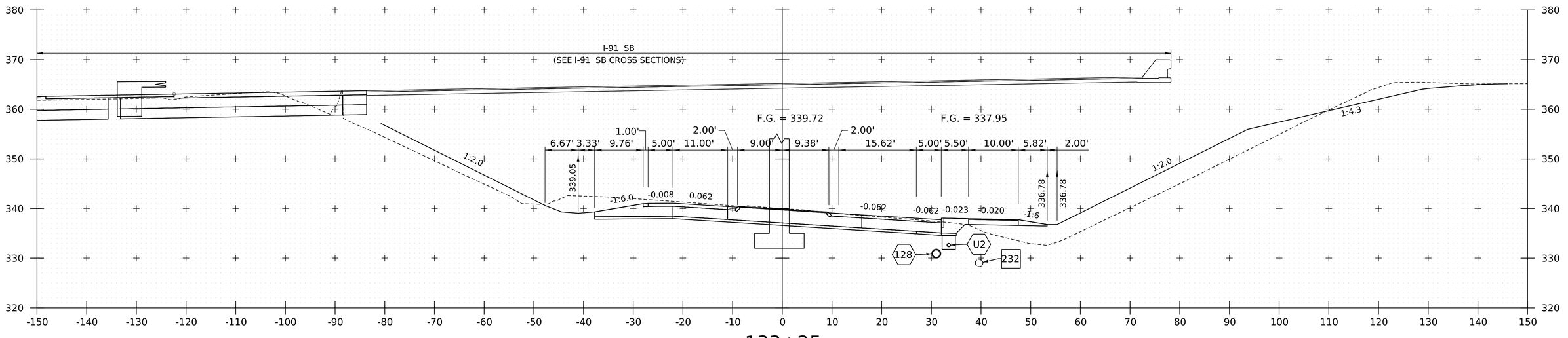

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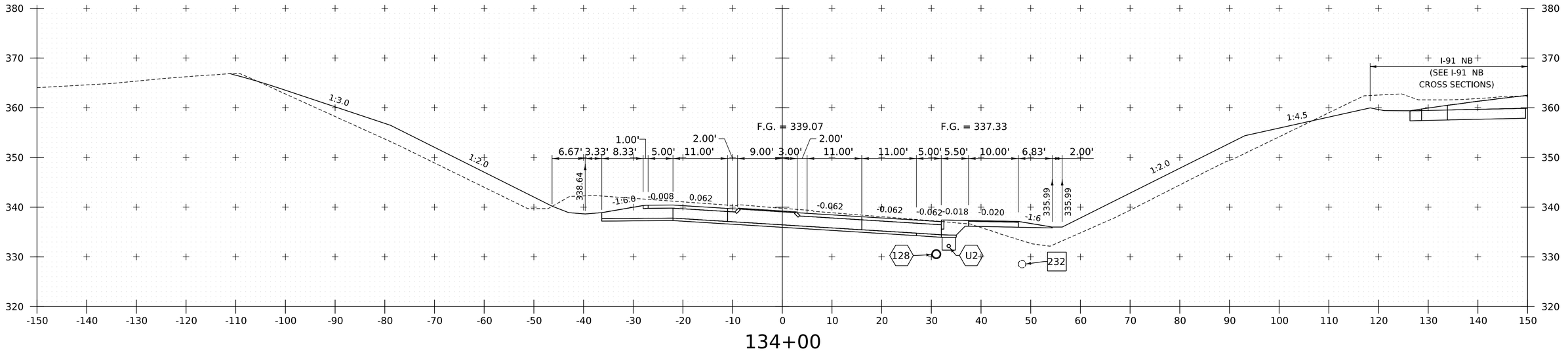
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 26		SHEET	627 OF 922

HNTB



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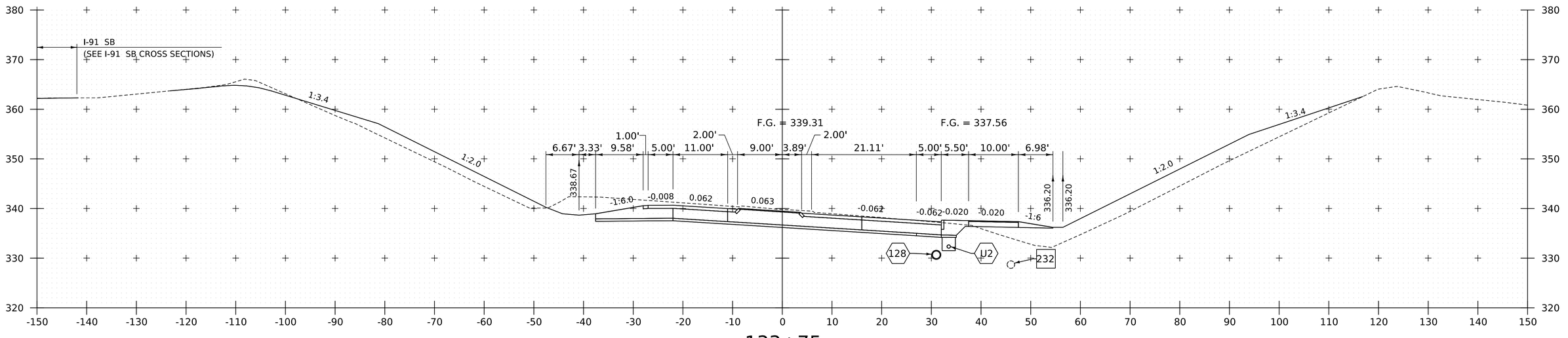

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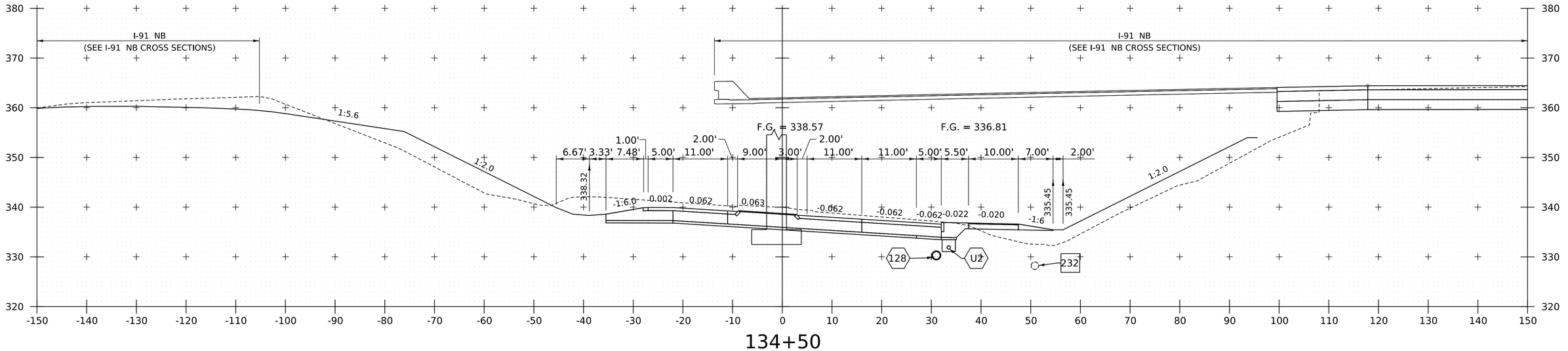
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 27		SHEET	628 OF 922



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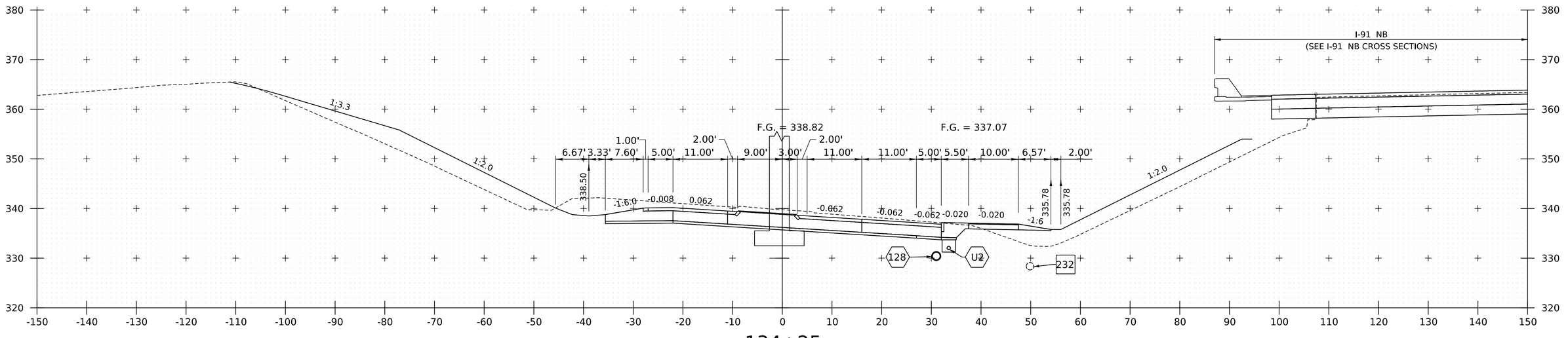

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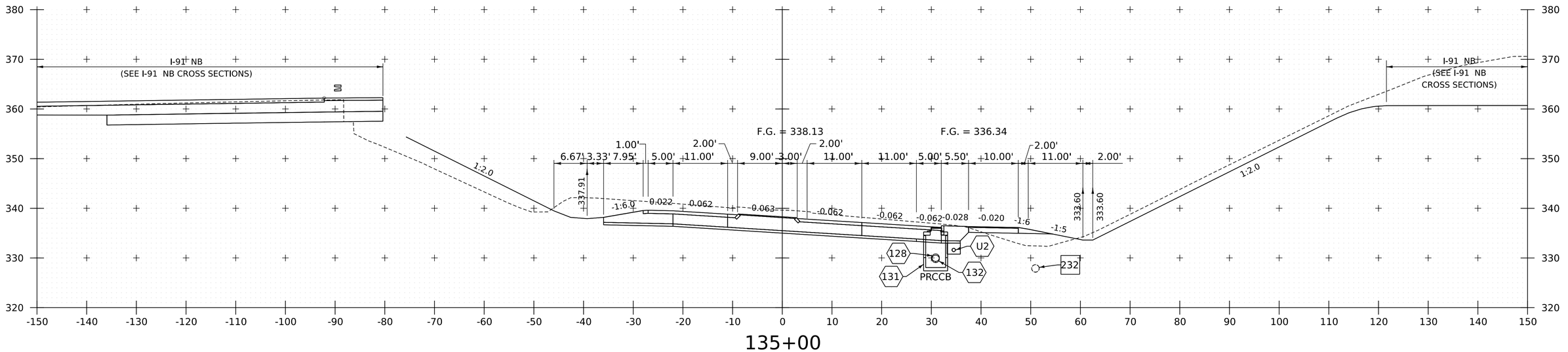
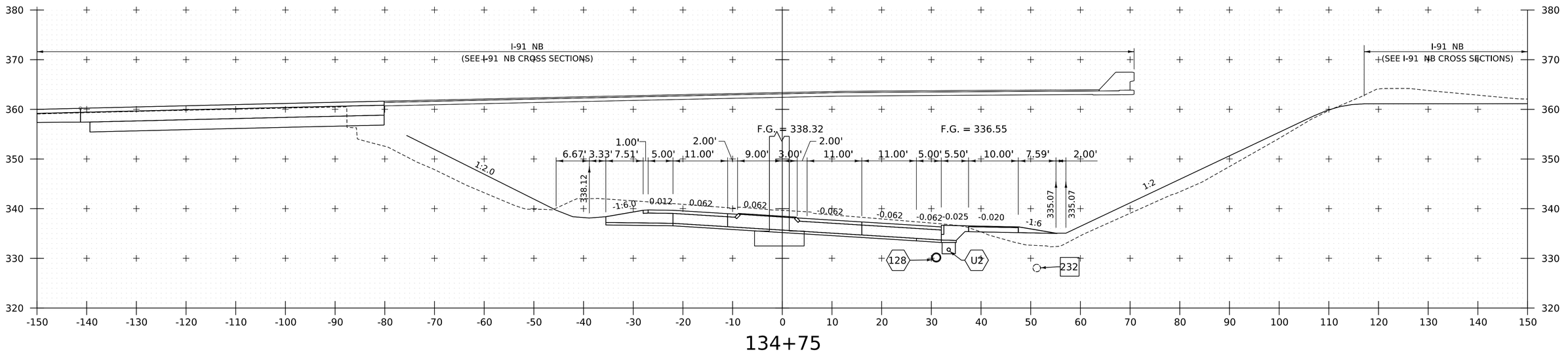
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 28		SHEET	629 OF 922

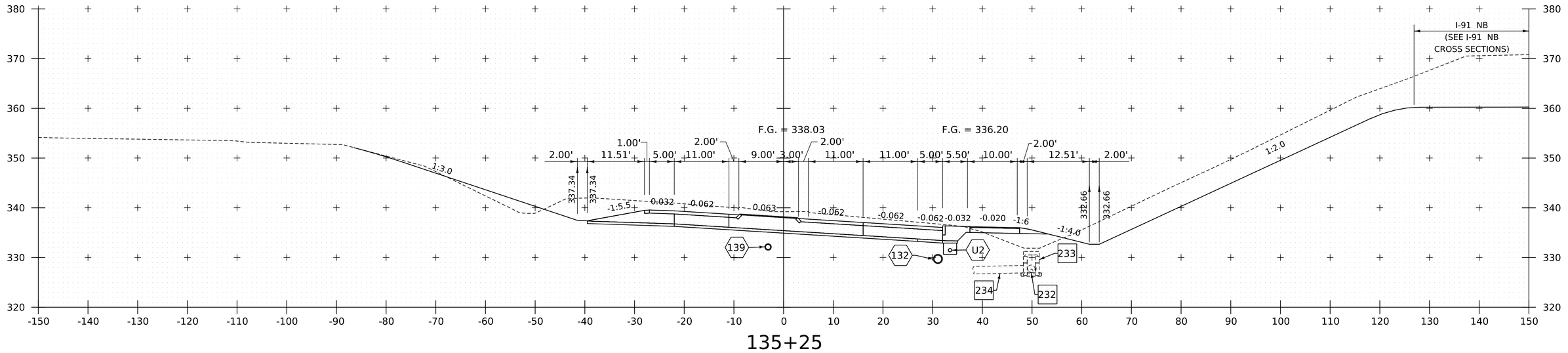
HNTB





PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 29	SHEET 630 OF 922

HNTB



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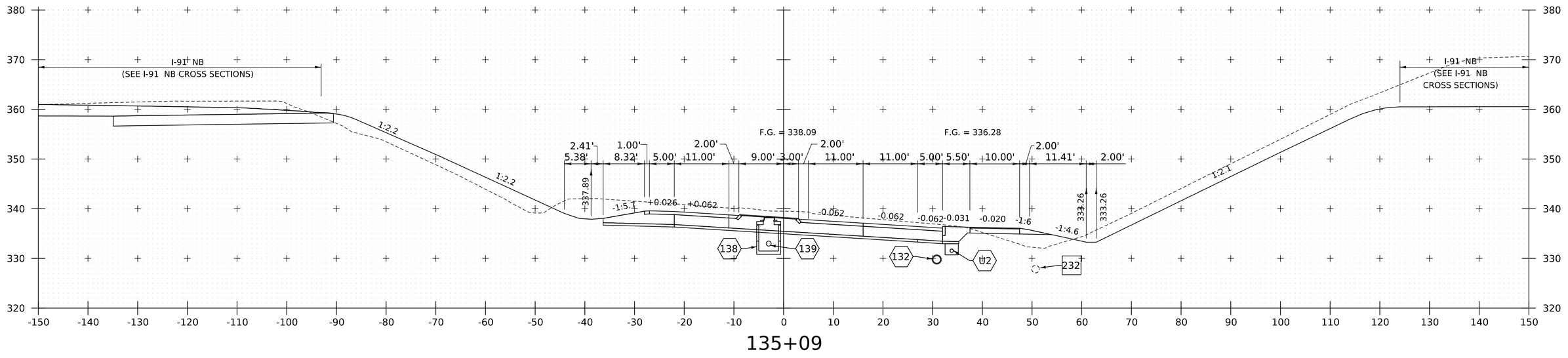

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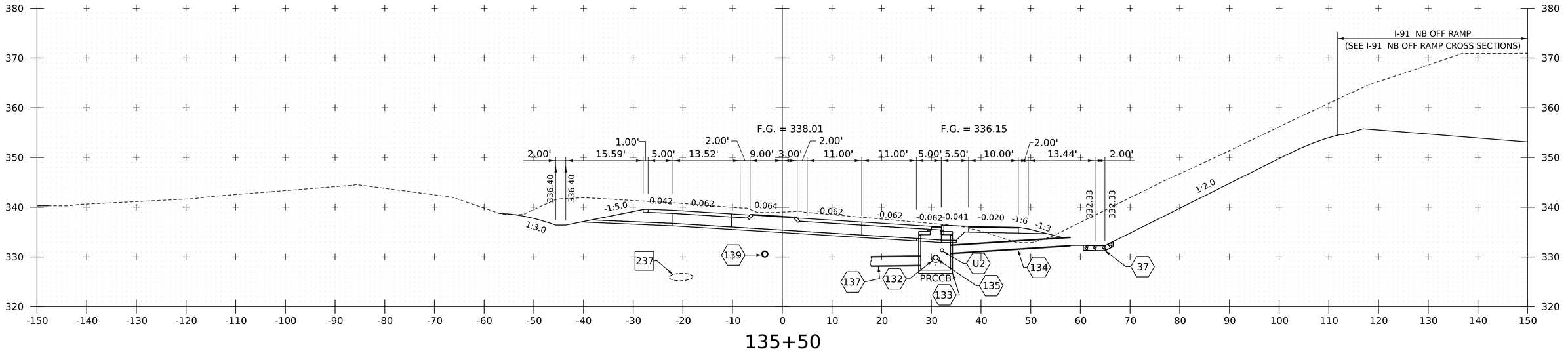
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 30	SHEET 631 OF 922



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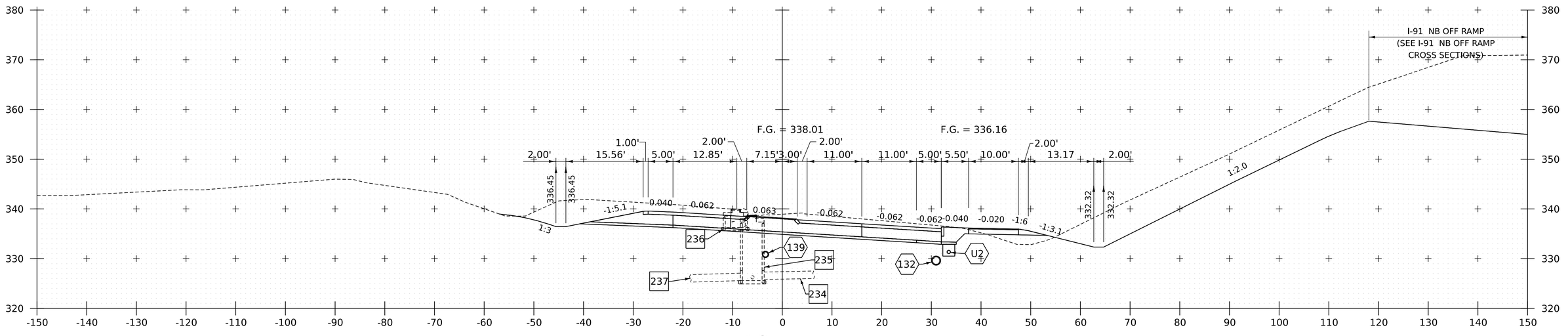

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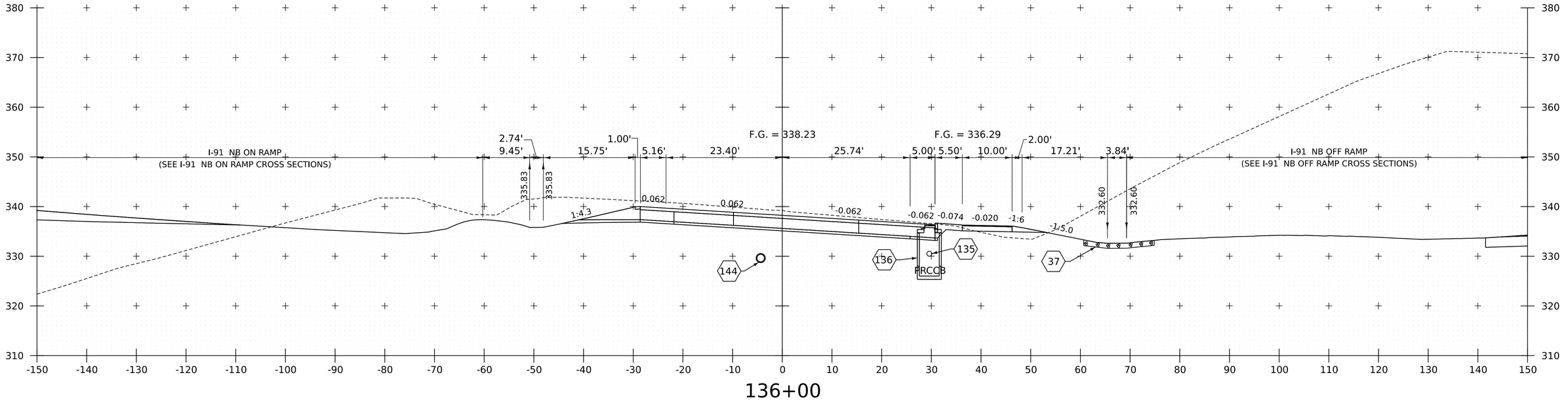
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 31	SHEET 632 OF 922

HNTB



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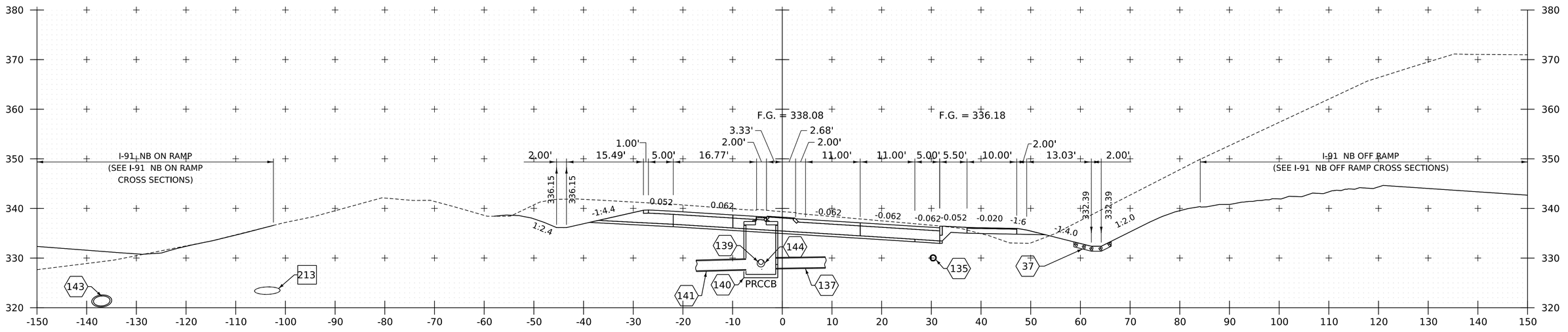

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PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 32	SHEET 633 OF 922

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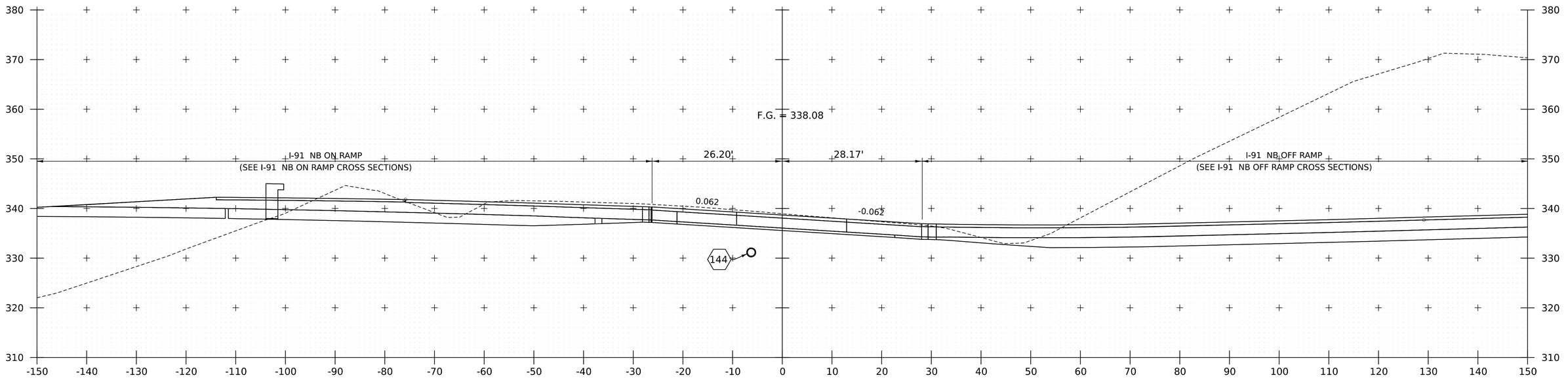
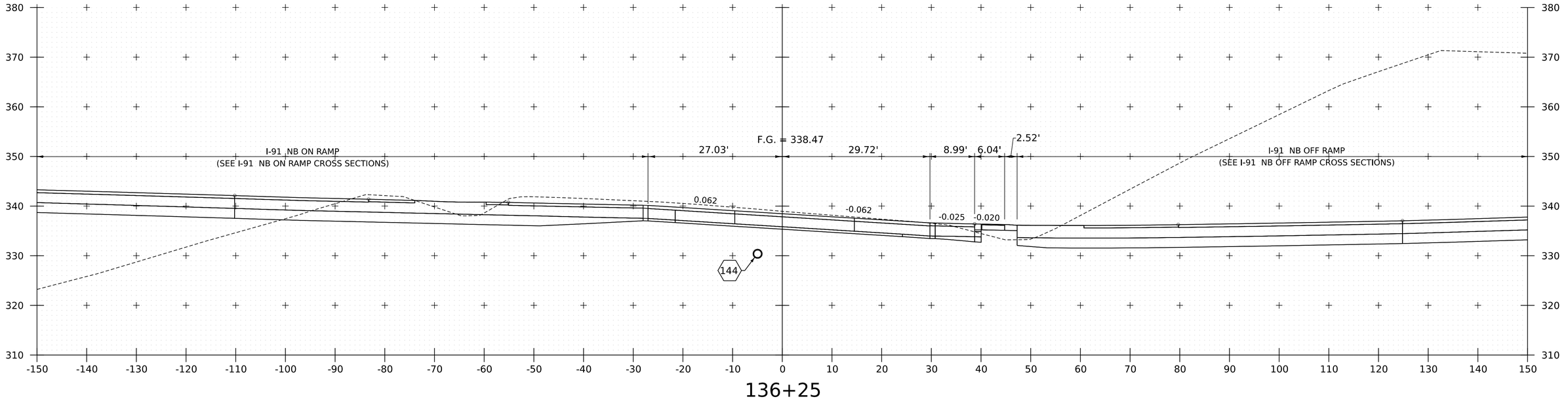
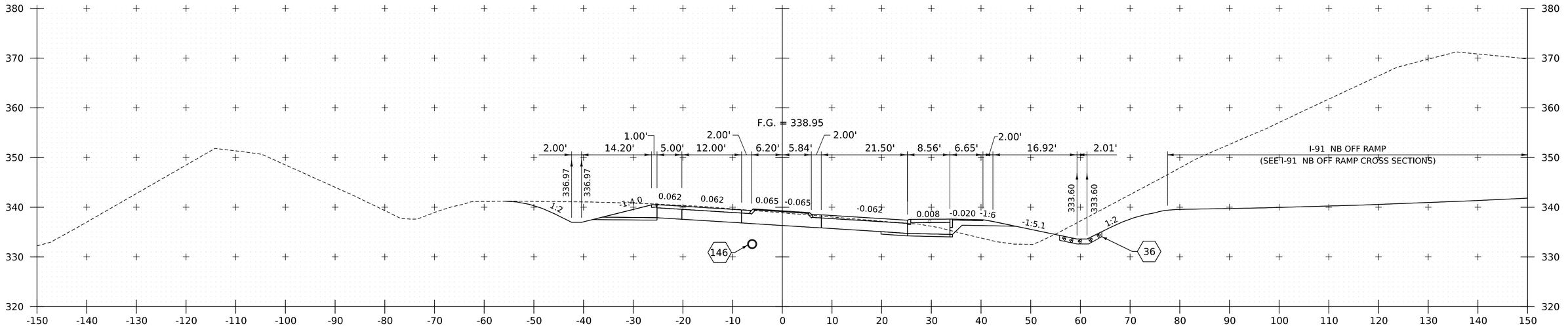




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 33	SHEET 634 OF 922

HNTB



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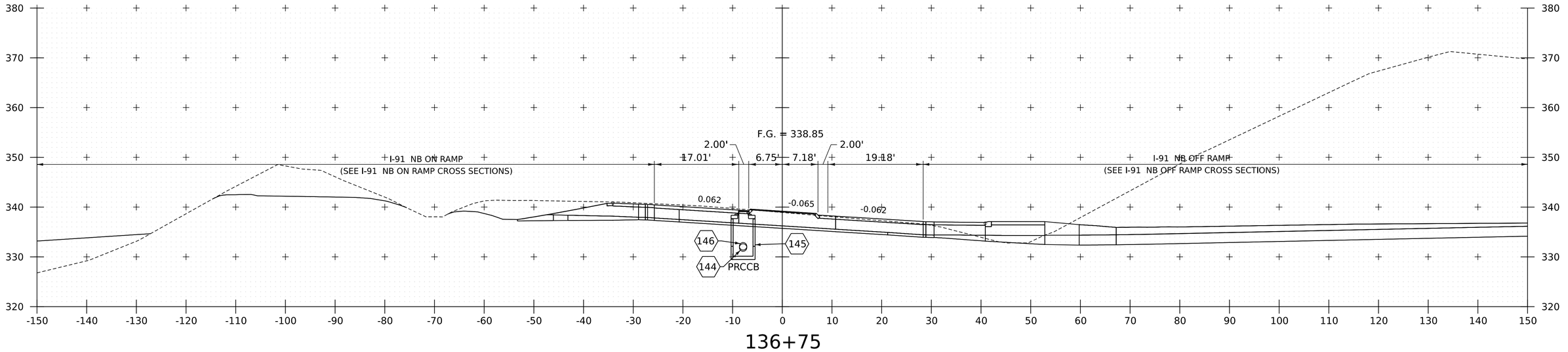
END CHARLESTOWN RD

(US ROUTE 5/VT ROUTE 11) PROJECT



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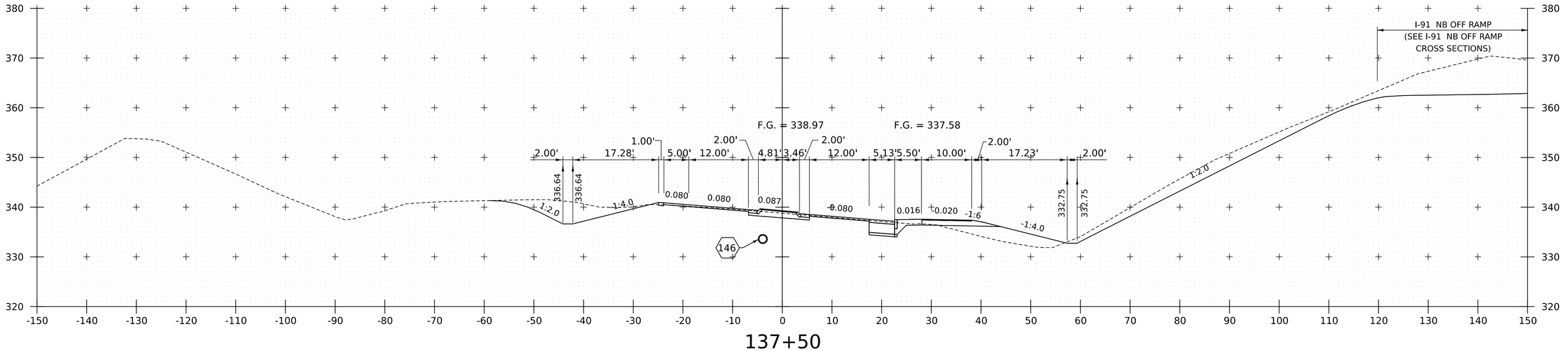
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 34	SHEET 635 OF 922

HNTB



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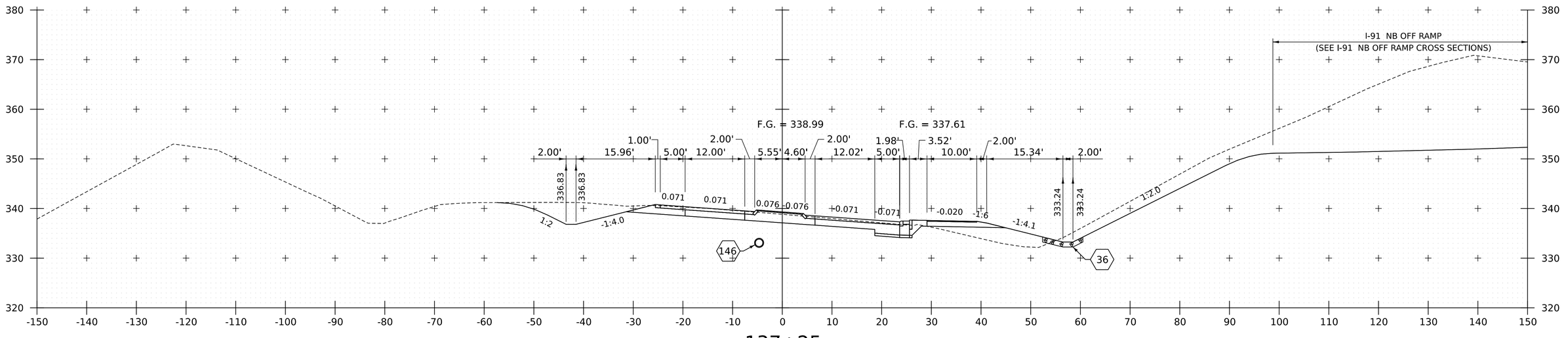
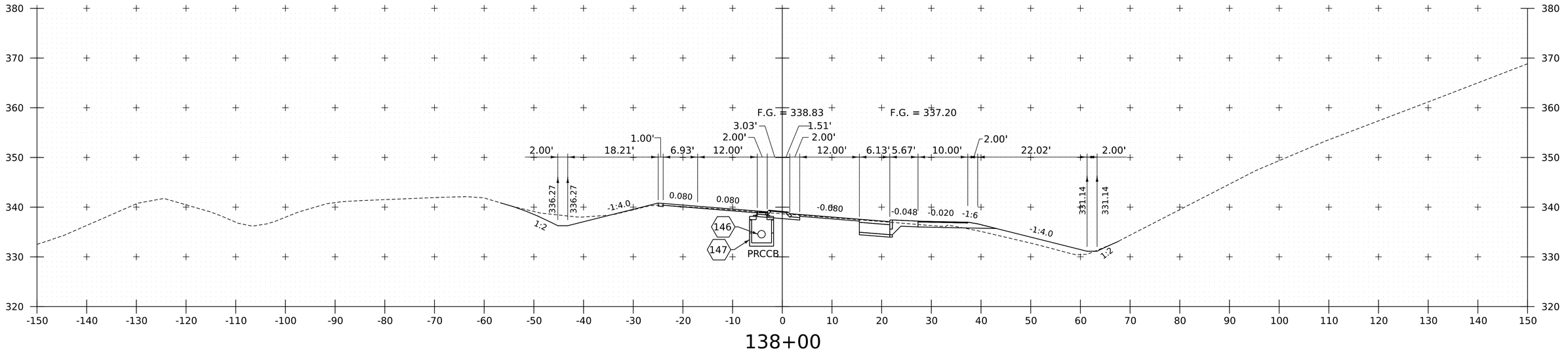


137+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 35	SHEET 636 OF 922

HNTB



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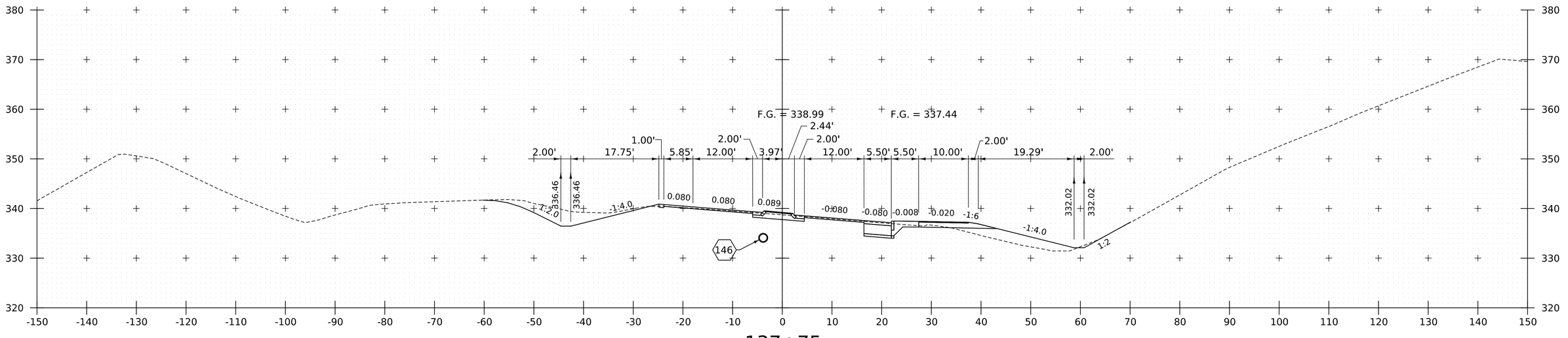
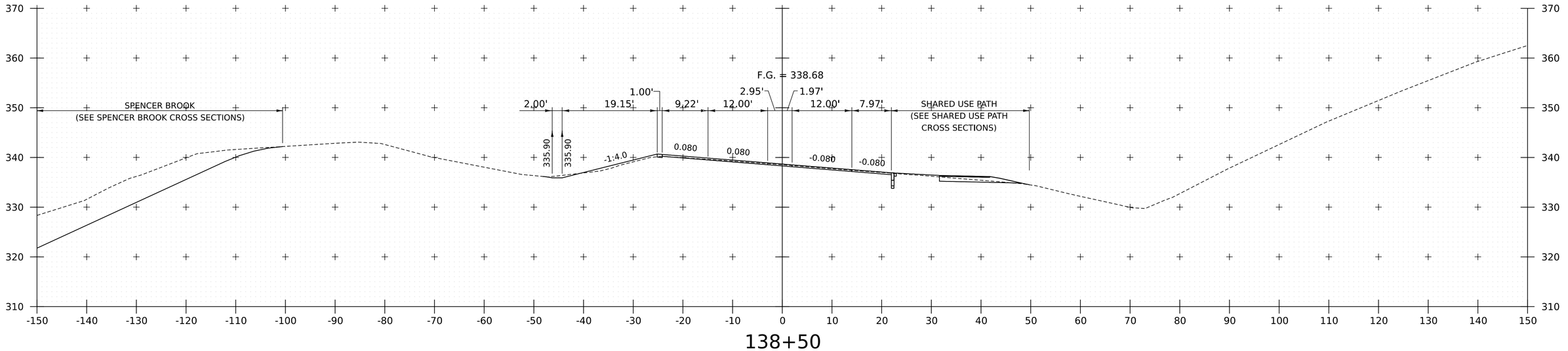


137+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRD.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 36	SHEET 637 OF 922

HNTB



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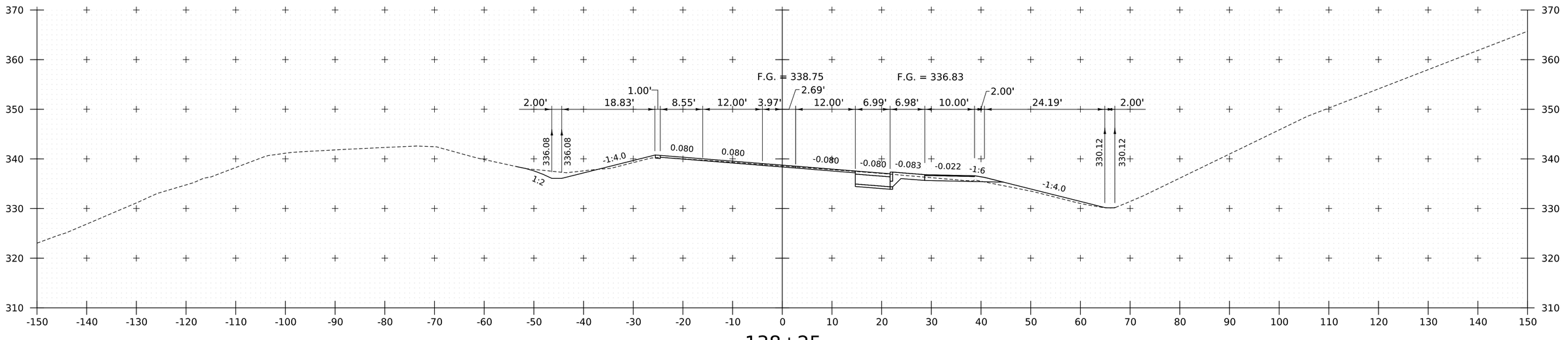
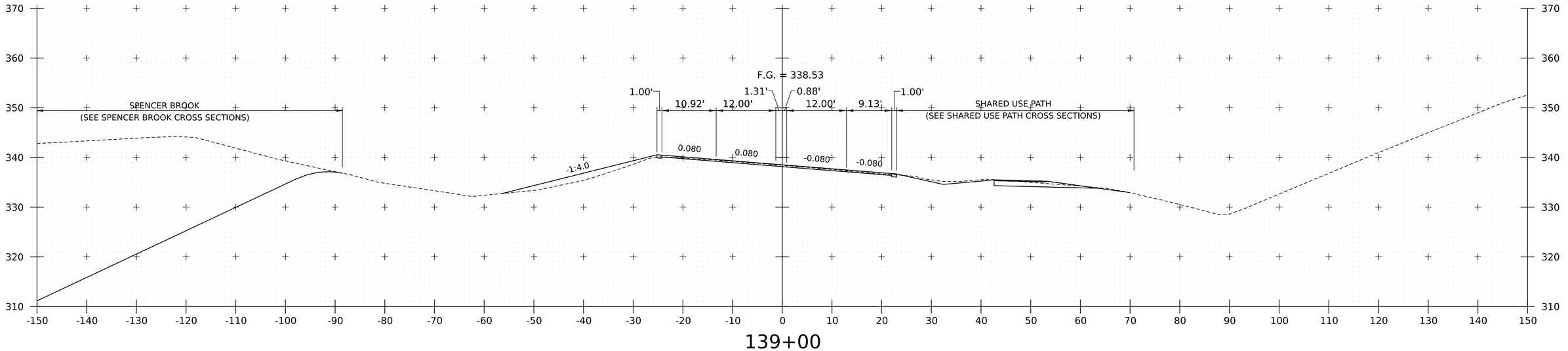


138+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 37		SHEET	638 OF 922

HNTB



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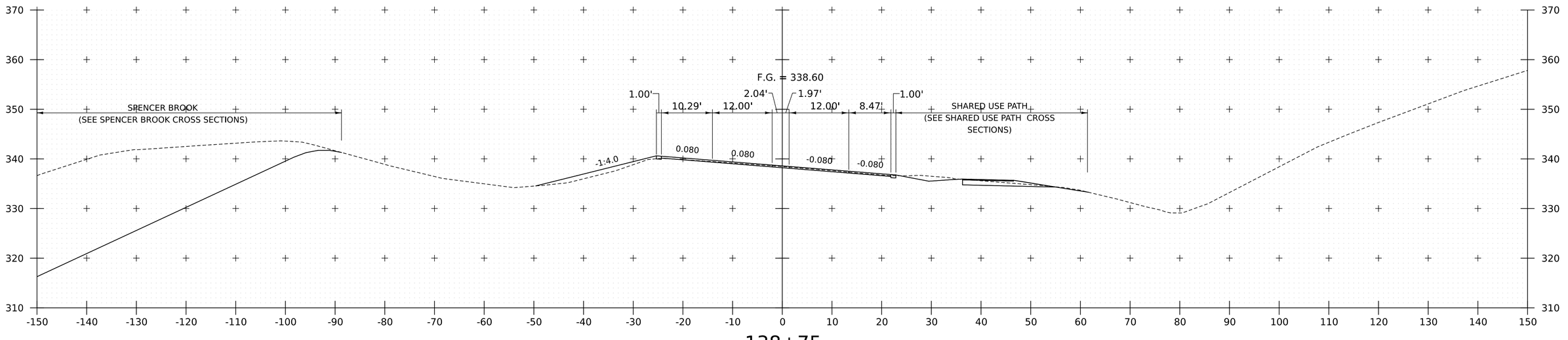
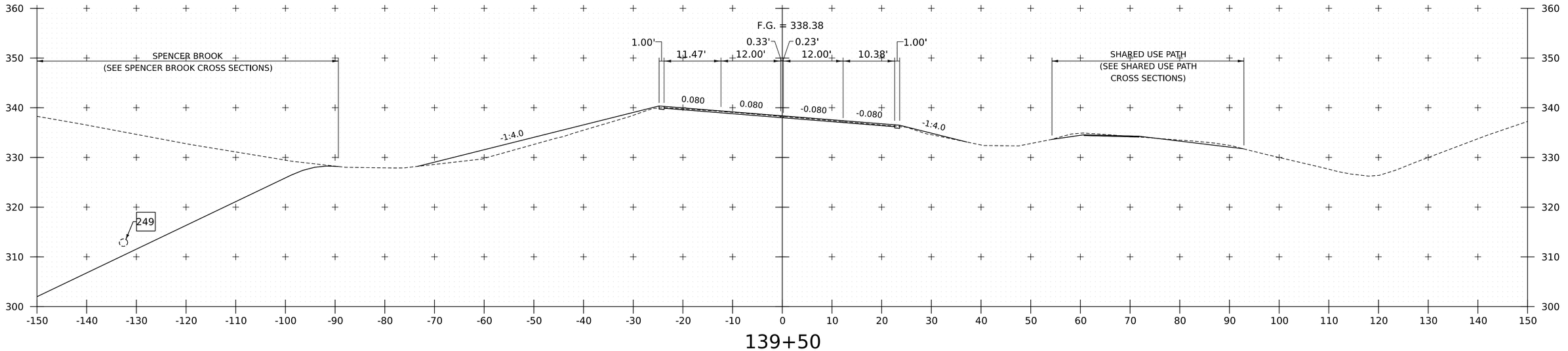


138+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 38		SHEET	639 OF 922

HNTB



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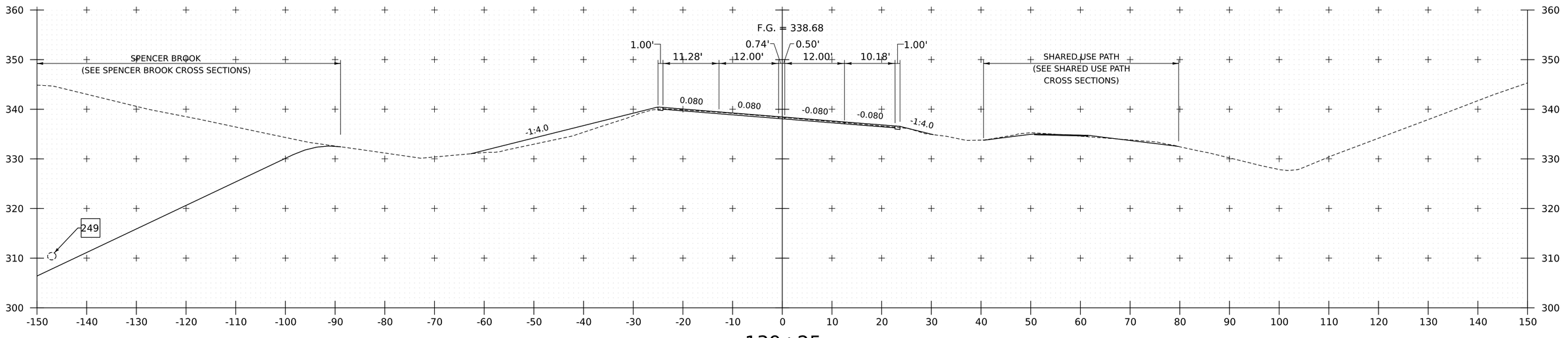
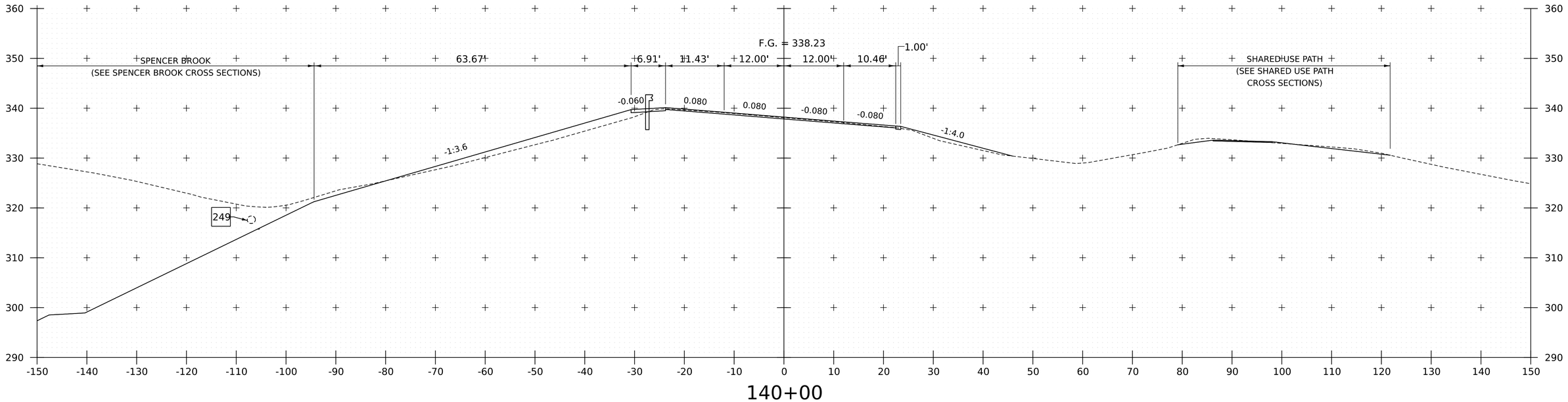


139+25

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRD.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 39		SHEET	640 OF 922

HNTB



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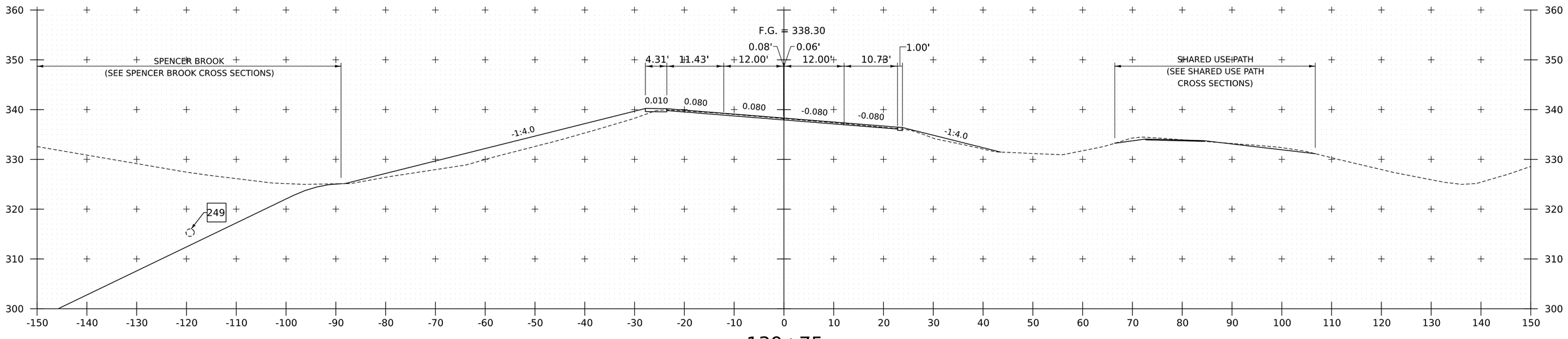
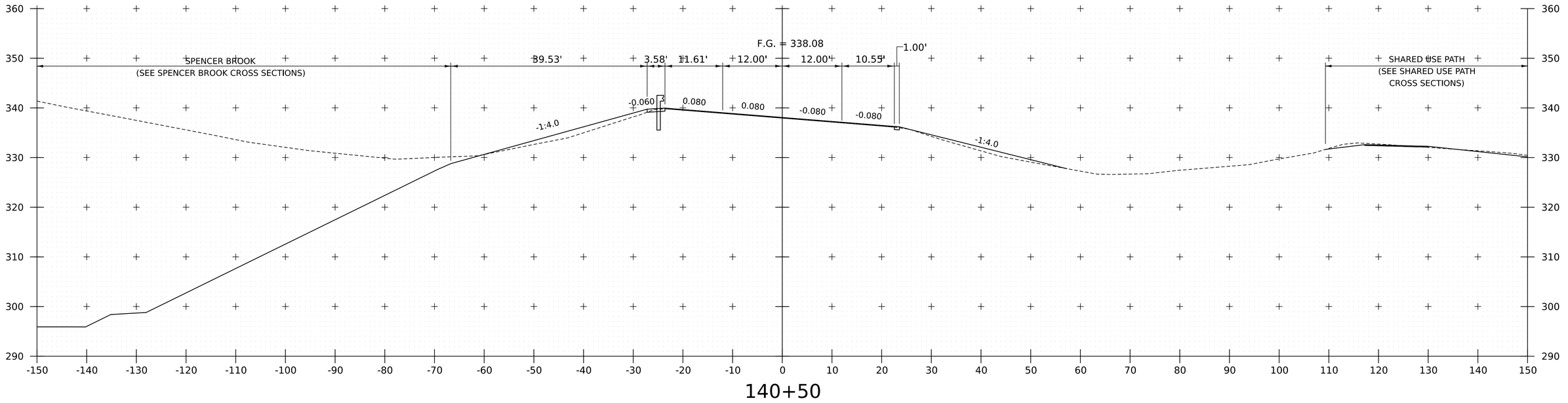


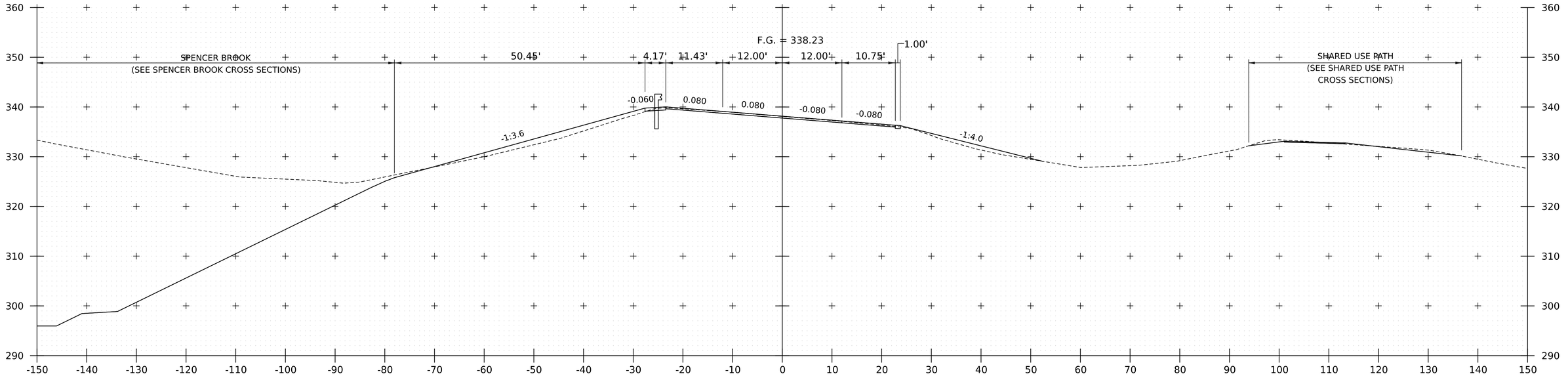
139+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 40	SHEET 641 OF 922

HNTB



140+50

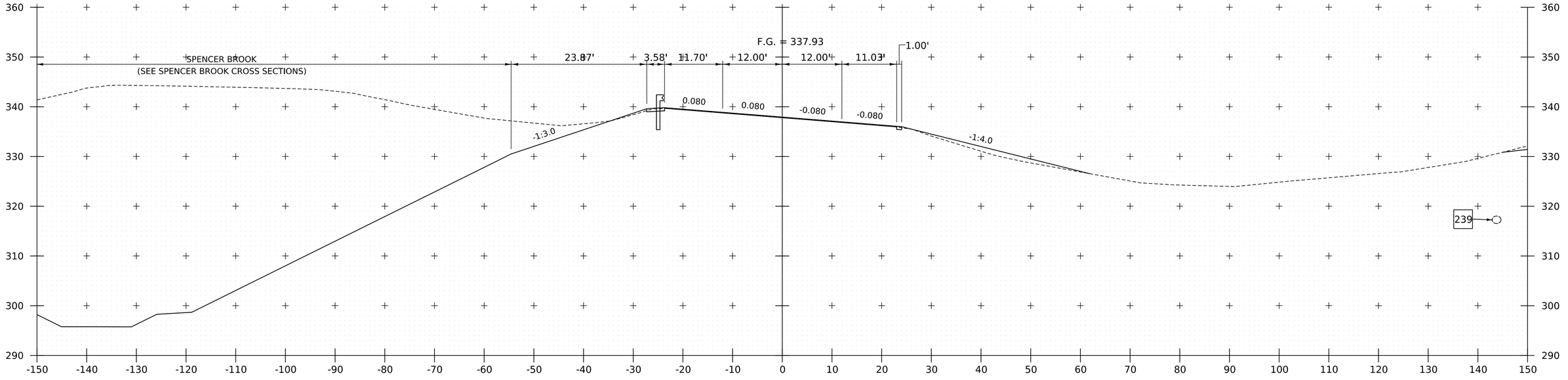


140+25

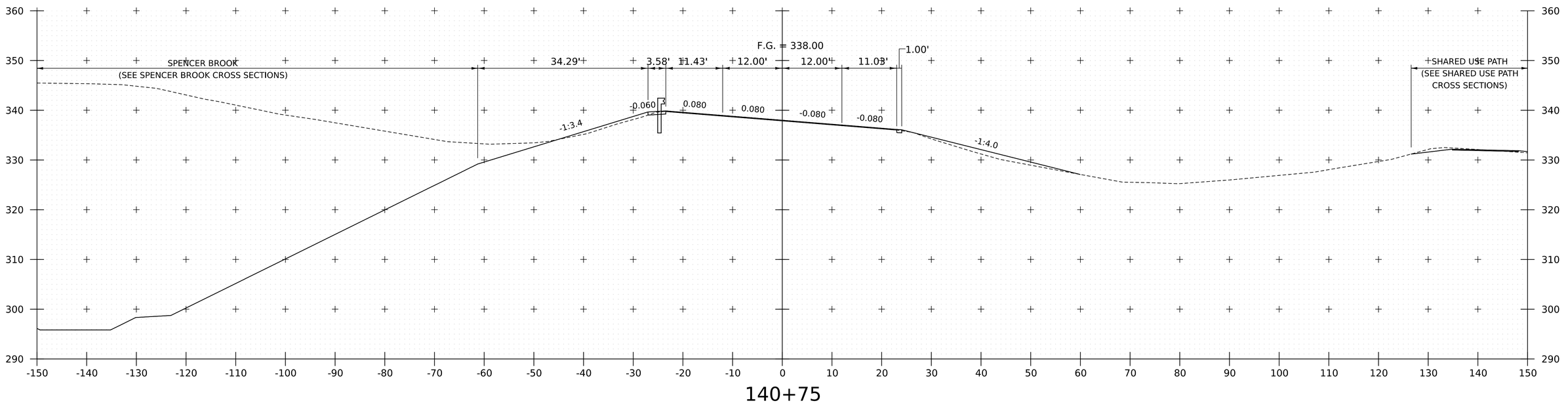
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_CharlestownRd.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 41

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 642 OF 922



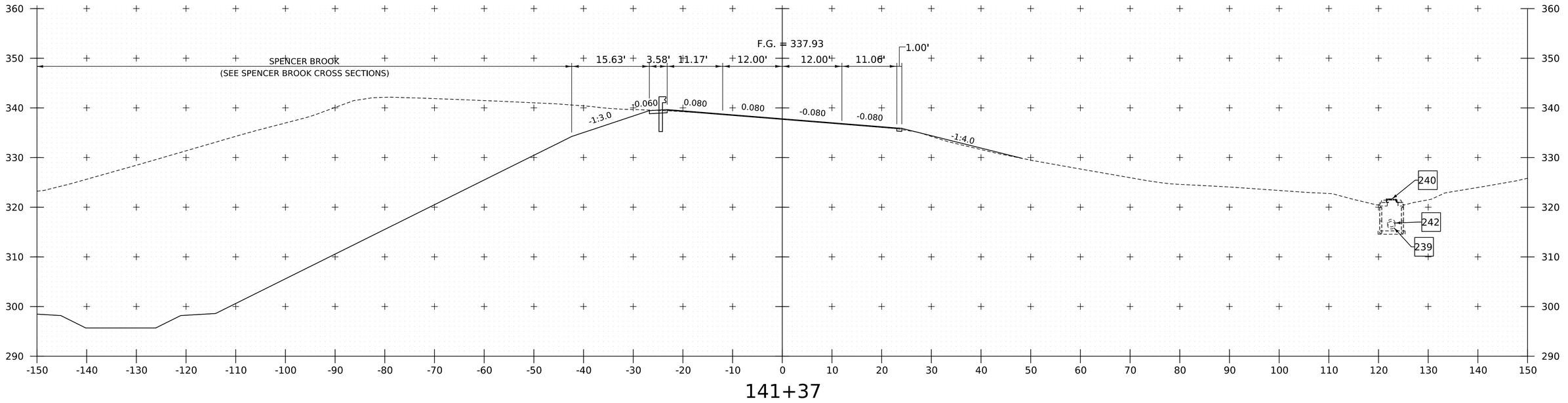
141+00

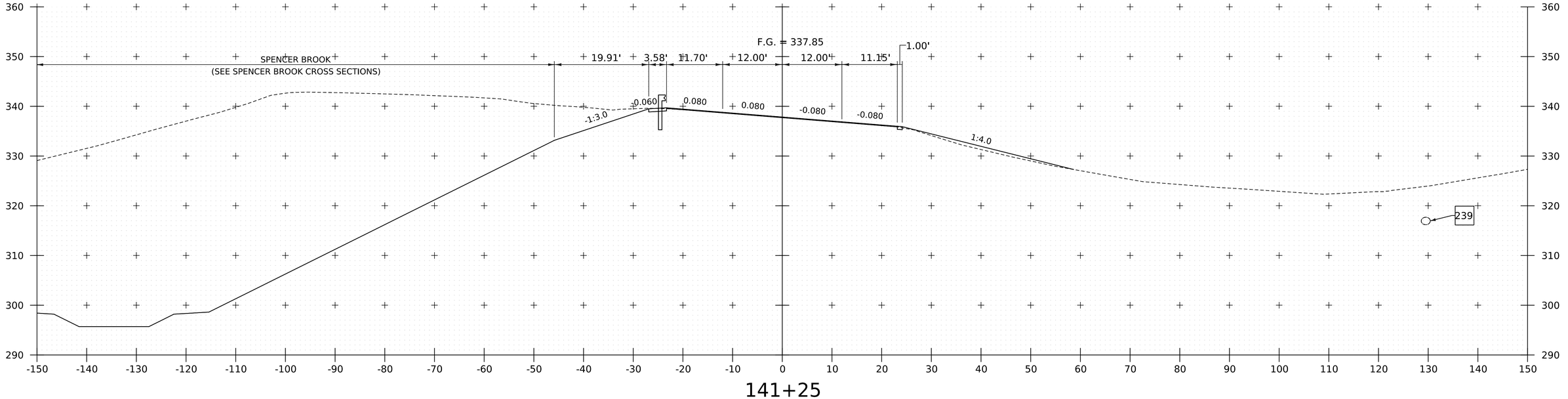


140+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

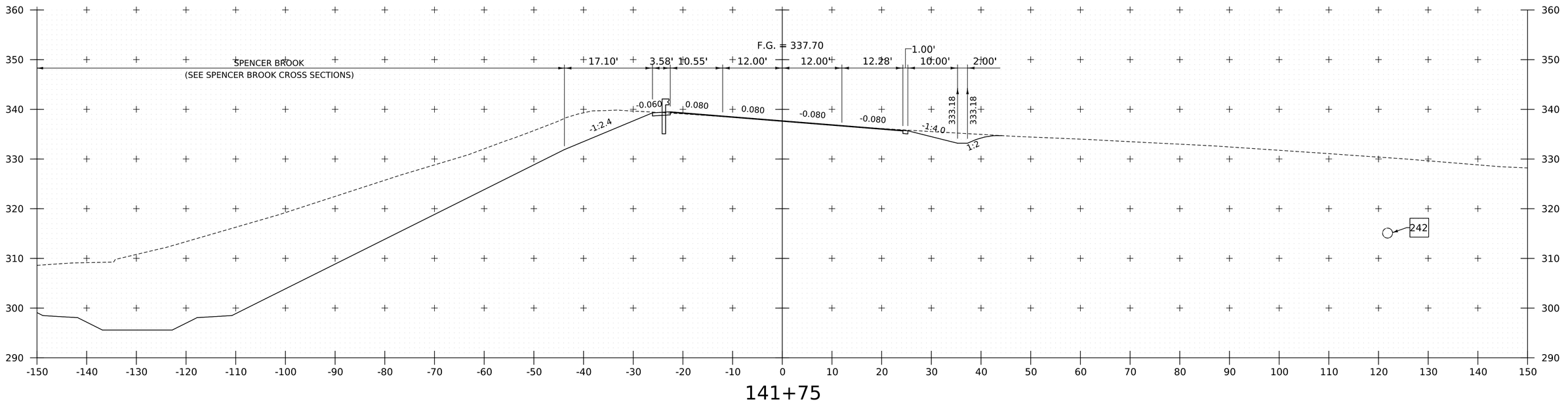
FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 42		SHEET	643 OF 922



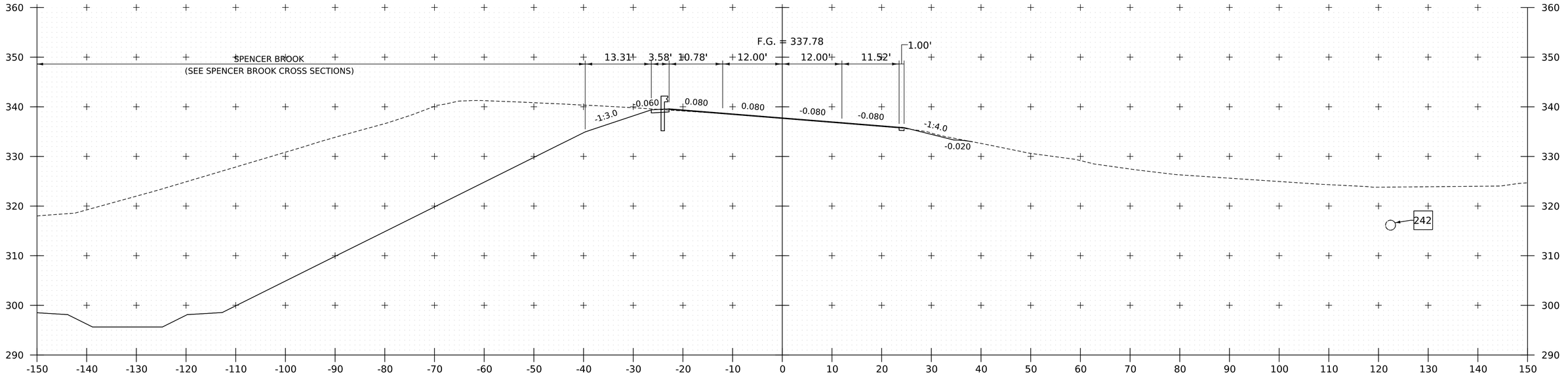


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 43		SHEET	644 OF 922



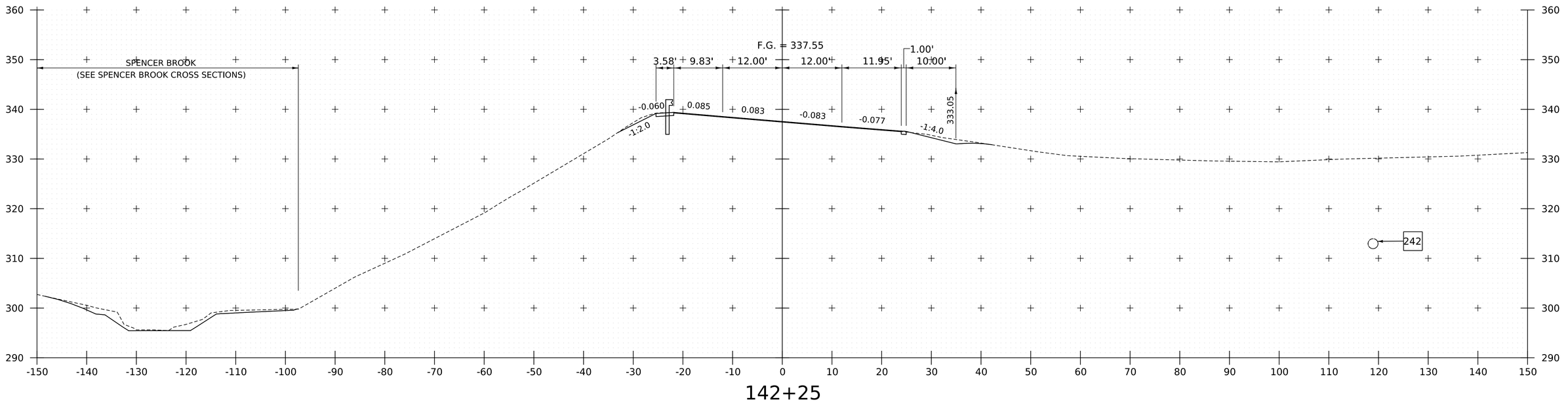
141+75

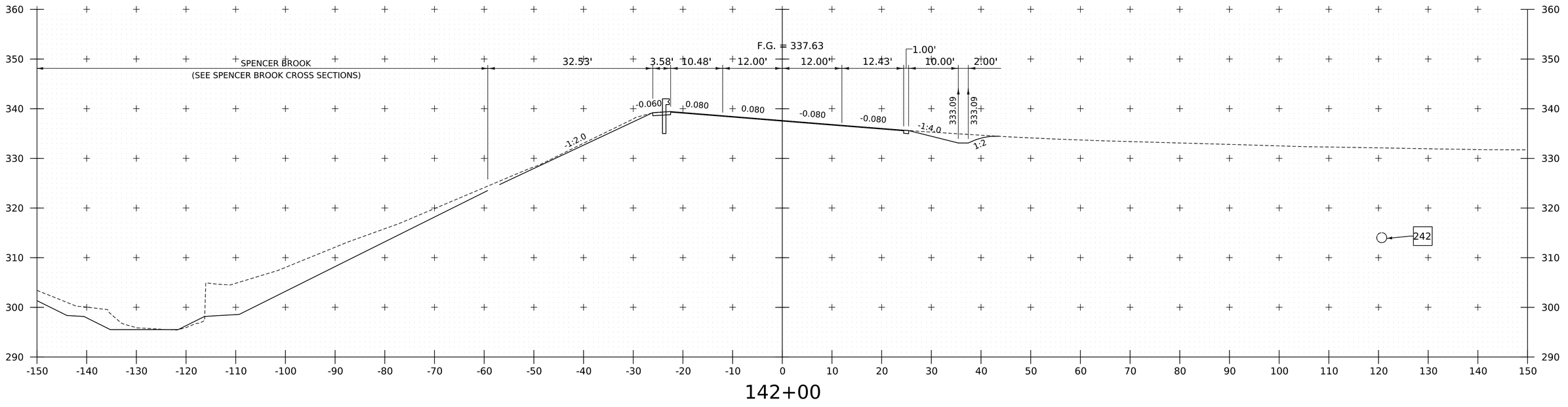


141+50

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 44	SHEET 645 OF 922

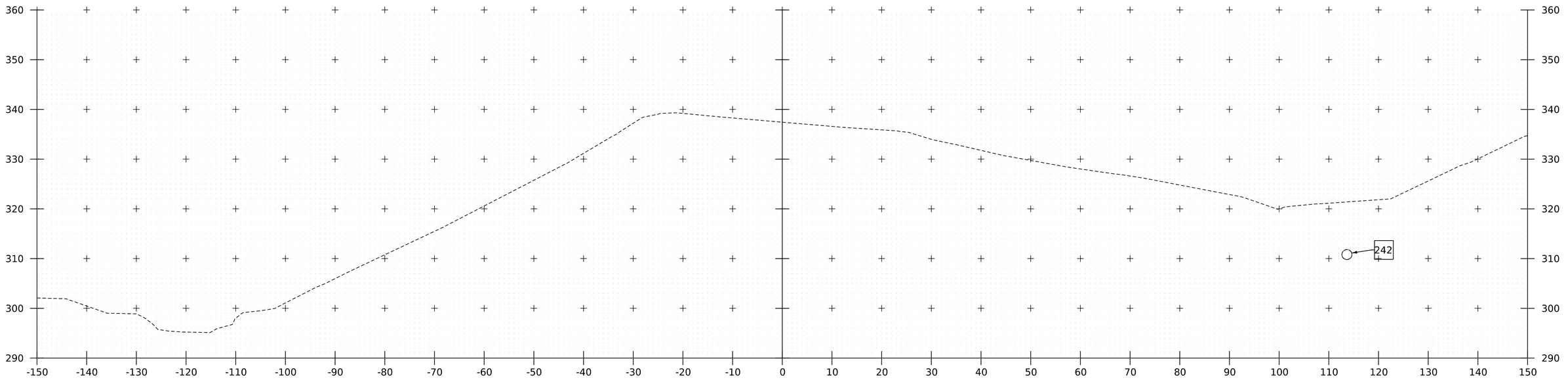
HNTB



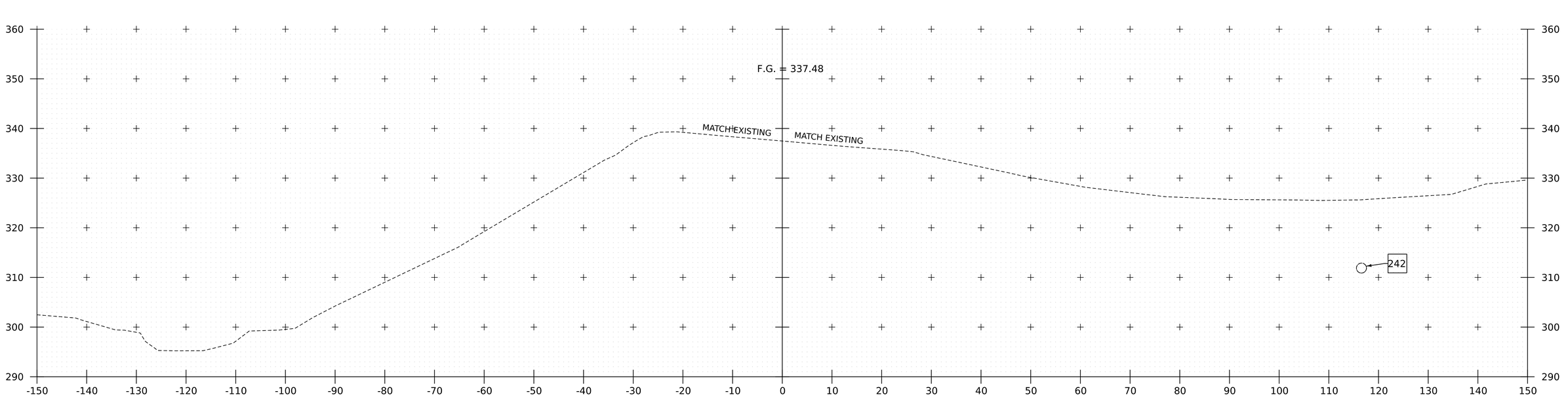


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_CharlestownRd.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 45	SHEET 646 OF922

HNTB



142+75



142+50

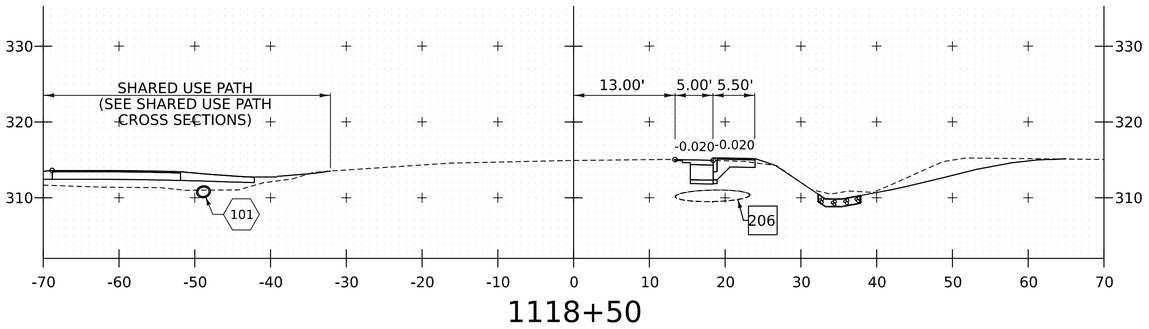
END CHARLESTOWN RD

(US ROUTE 5/VT ROUTE 11) PROJECT

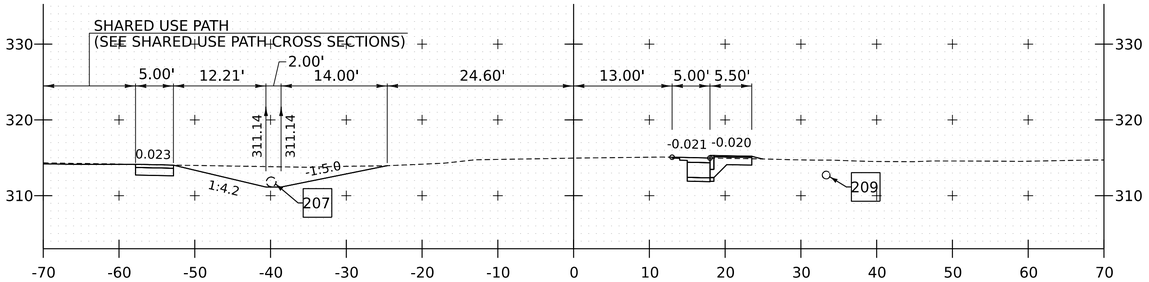
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_CharlestownRd.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
US ROUTE 5/VT ROUTE 11 CROSS SECTIONS 46		SHEET	647 OF 922

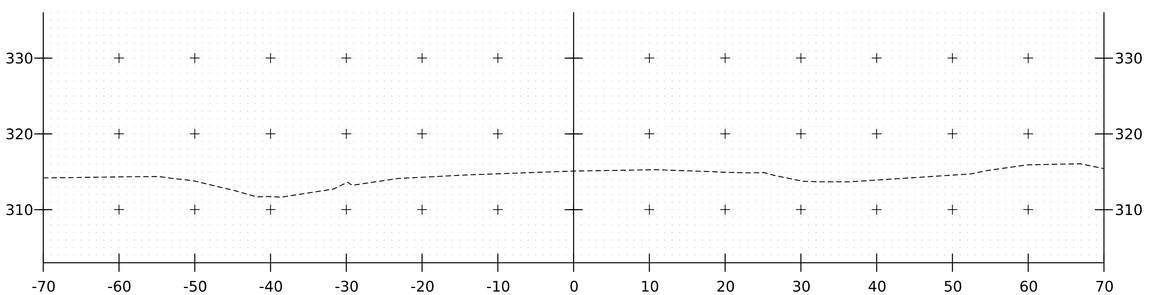
HNTB



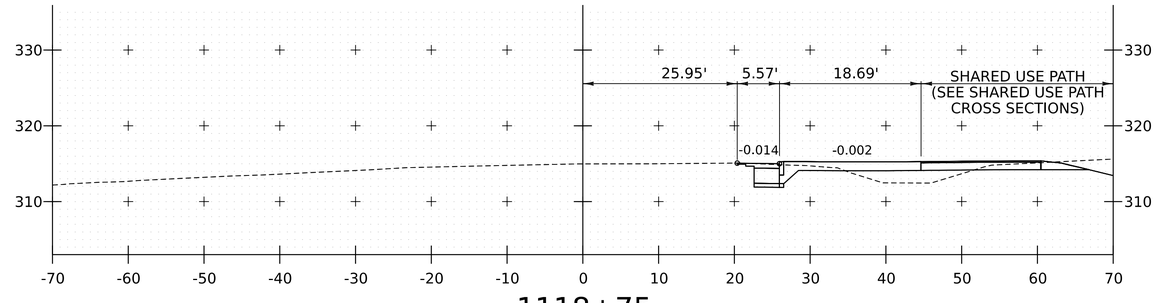
1118+50



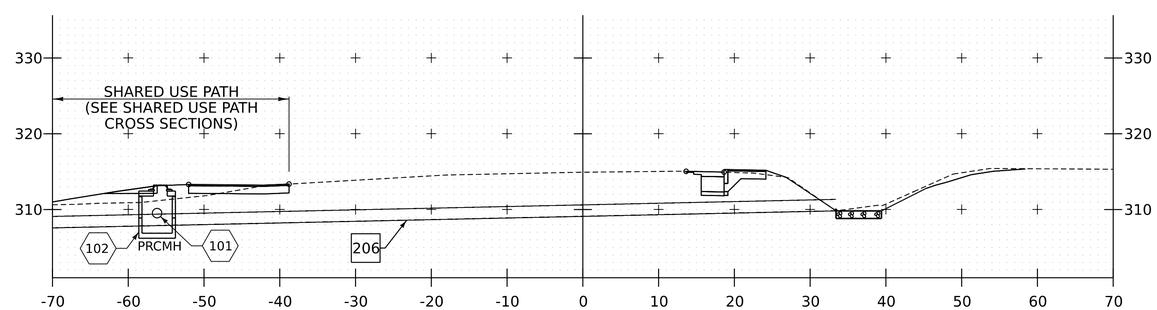
1118+25



1118+00



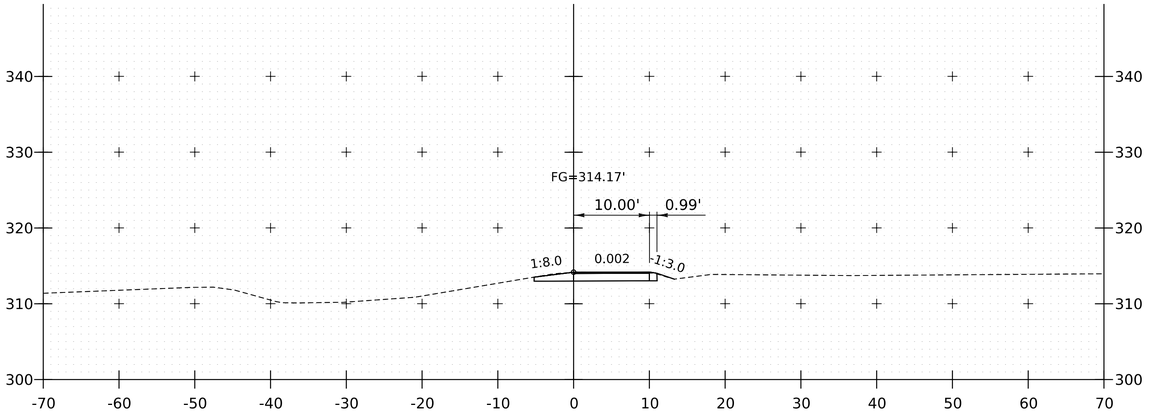
1118+75



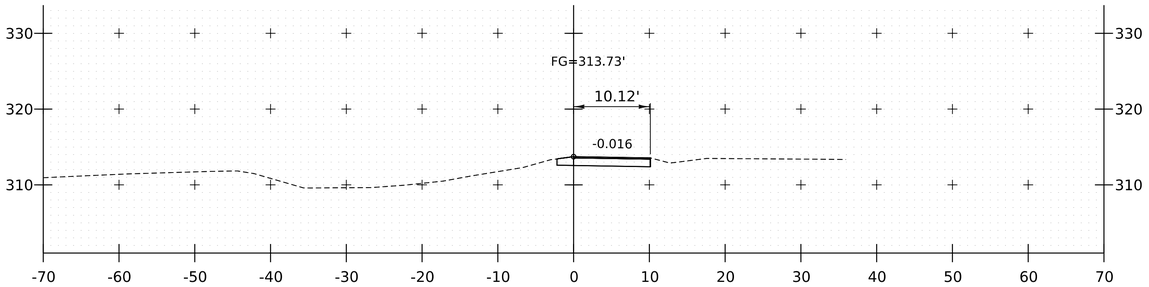
1118+53 (SKEWED ALONG PIPE)

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Missing_Link.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: P. SHEDD
MISSING LINK RD CROSS SECTIONS 1	SHEET 648 OF 922



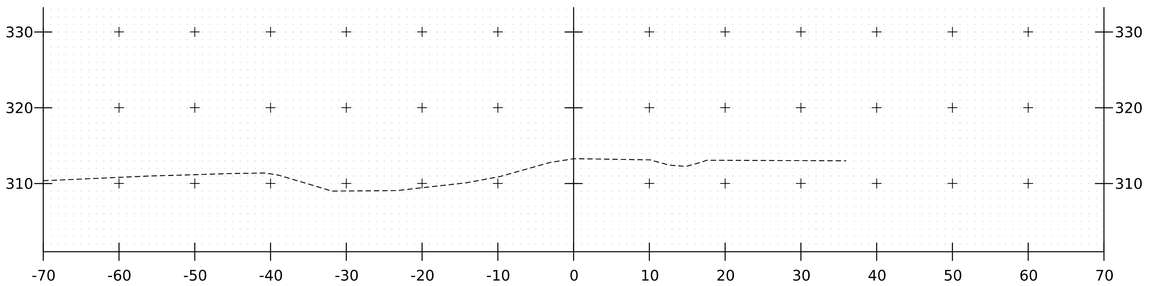
1999+00



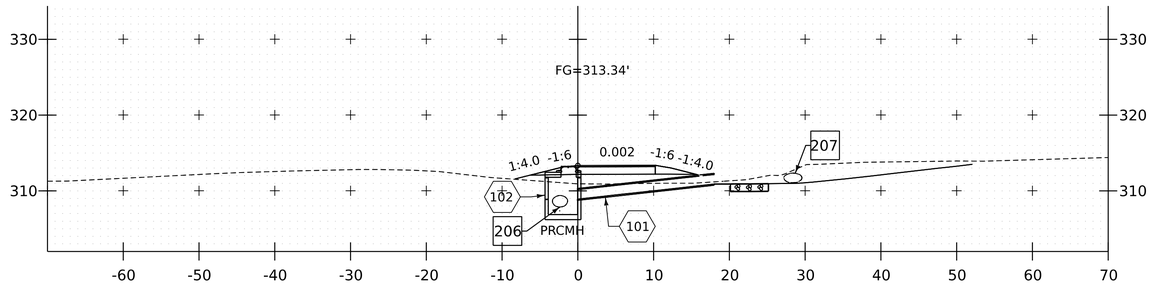
1998+75

TOONERVILLE SHARED USE PATH

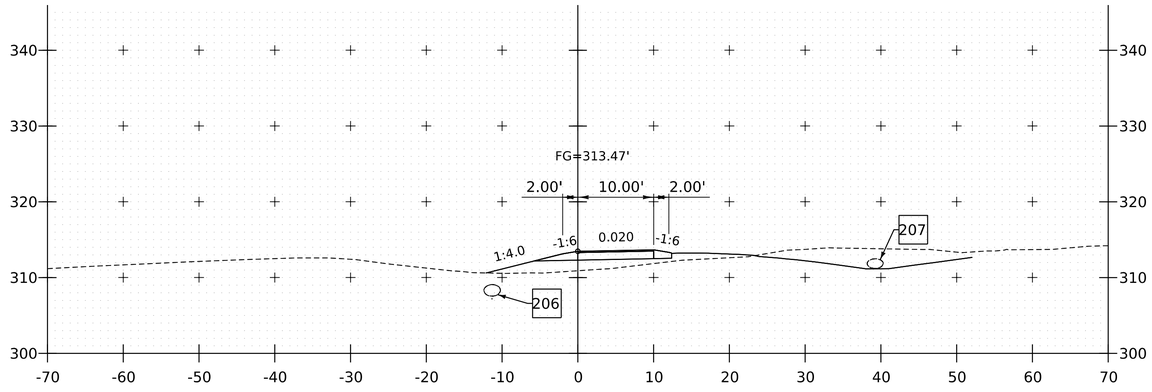
LIMIT OF WORK



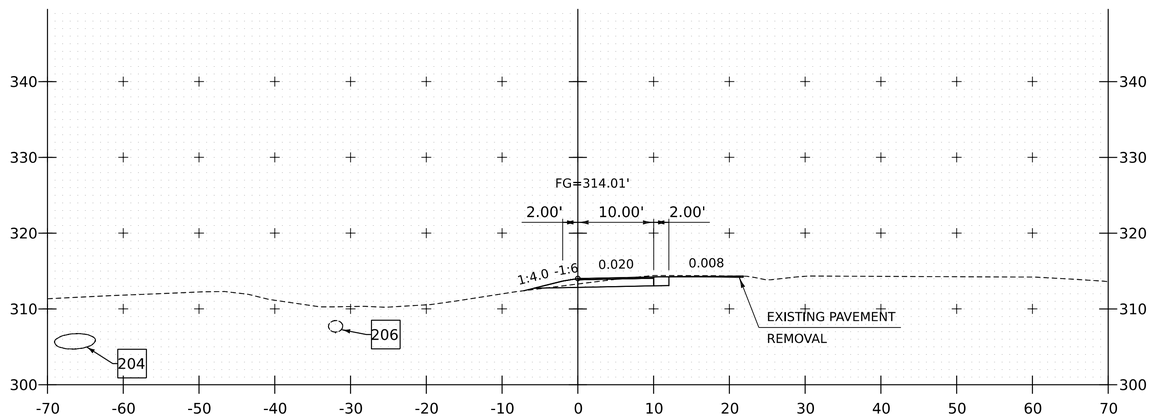
1998+50



1999+60 (SKEWED ALONG PIPE)



1999+50

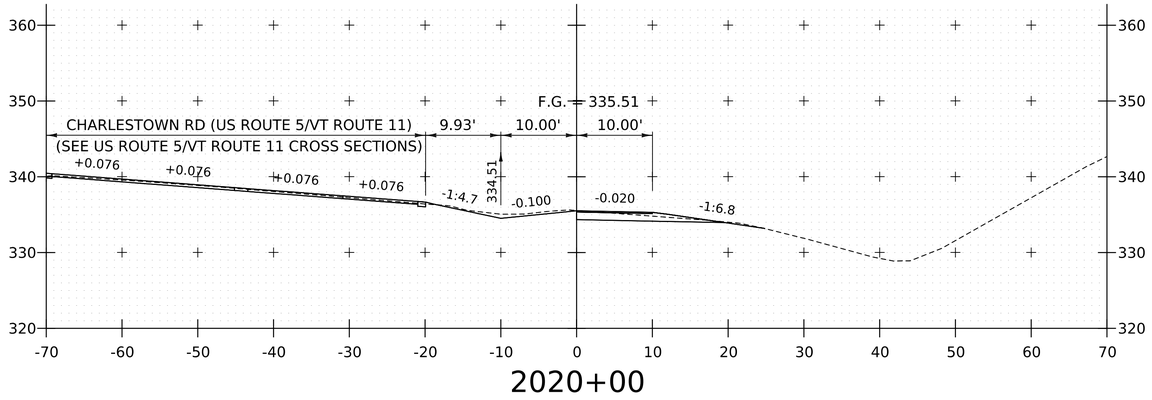


1999+25

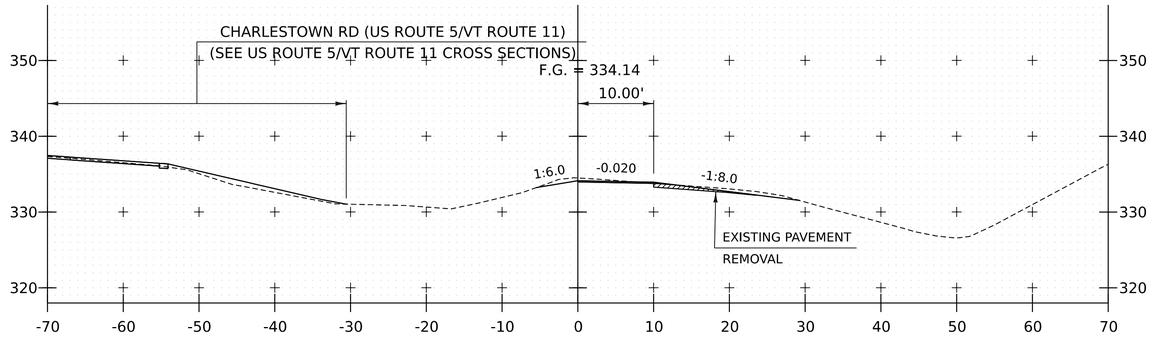
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 1		SHEET	649 OF 922

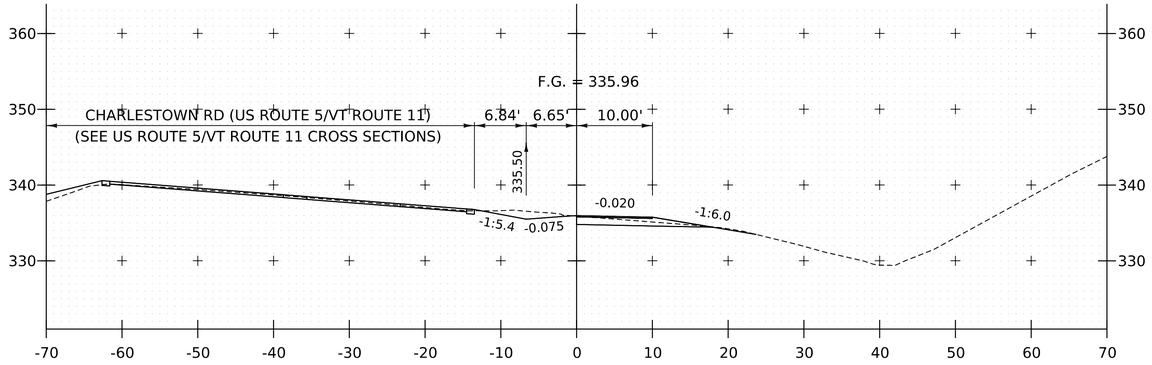
HNTB



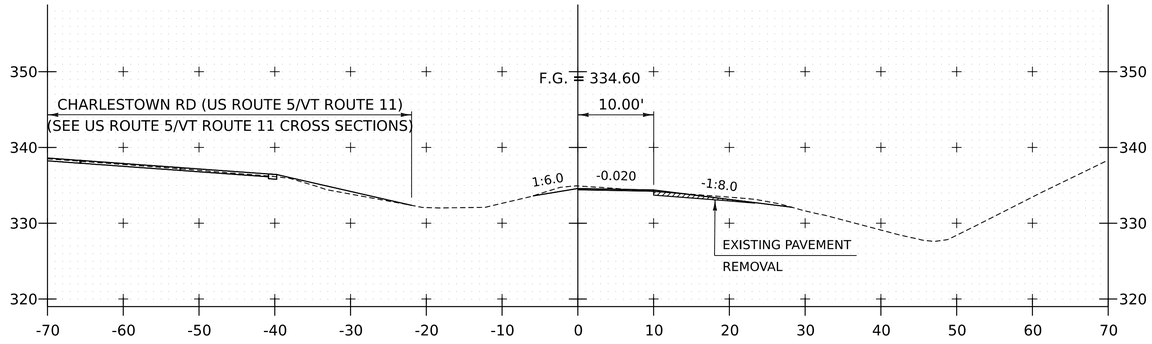
2020+00



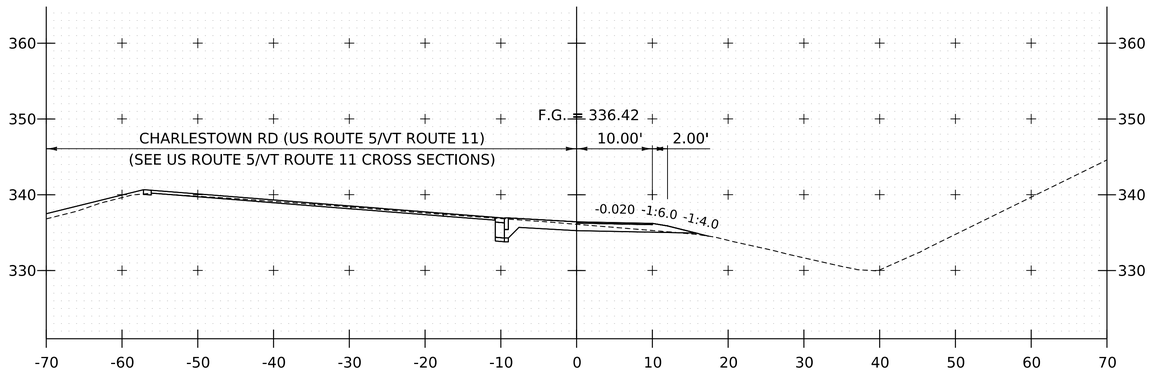
2020+75



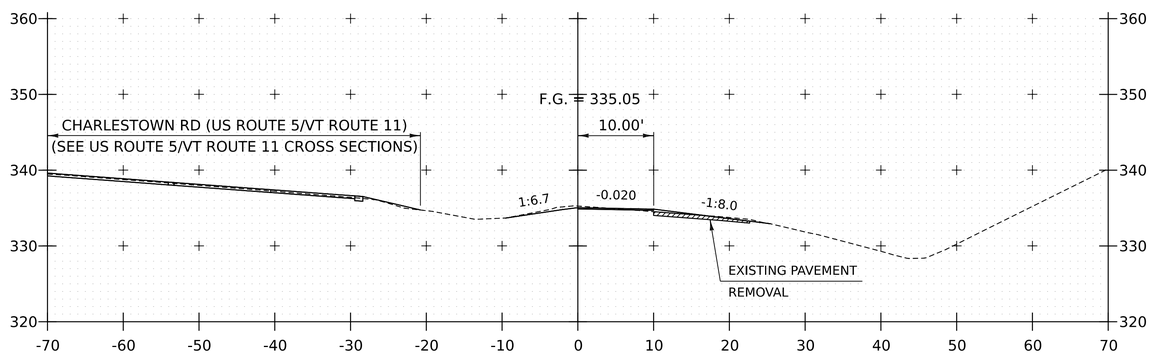
2019+75



2020+50



2019+50

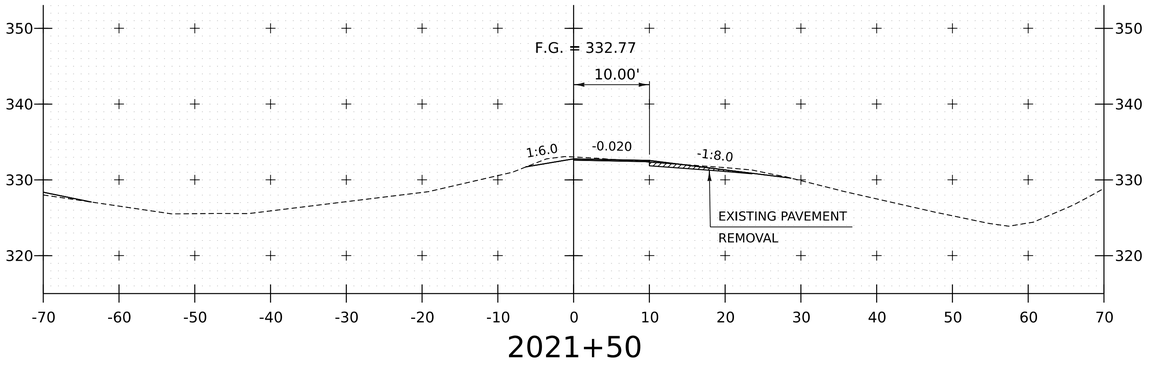


2020+25

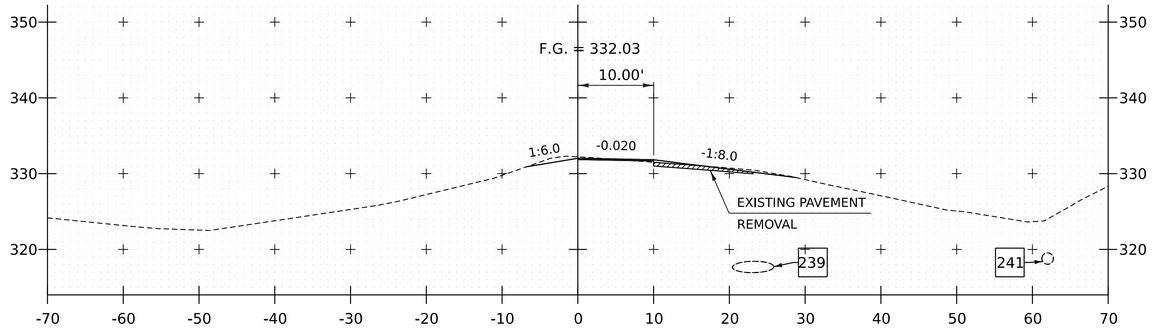
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 2		SHEET	650 OF 922

HNTB



2021+50



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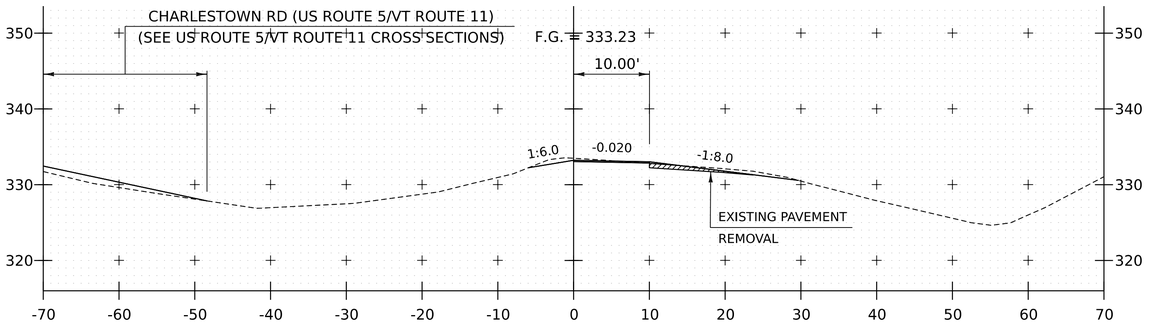

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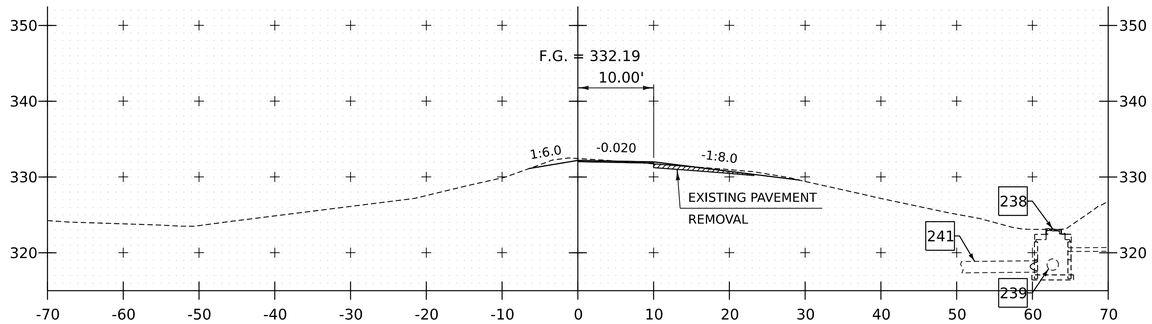

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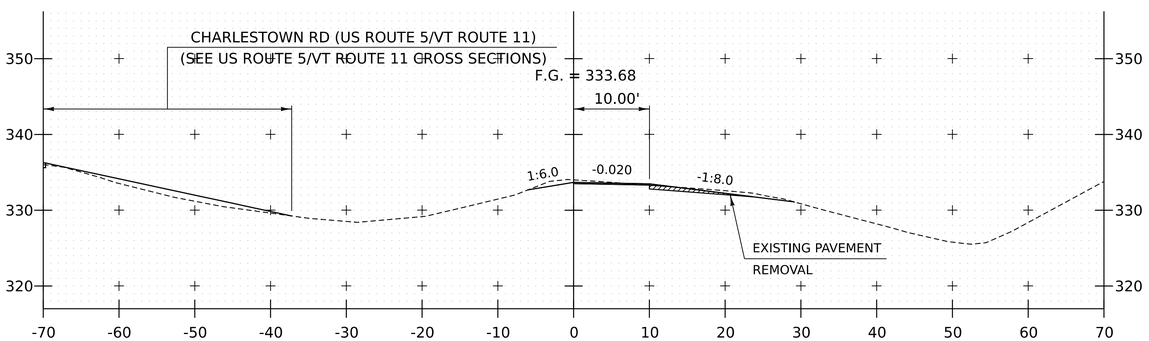

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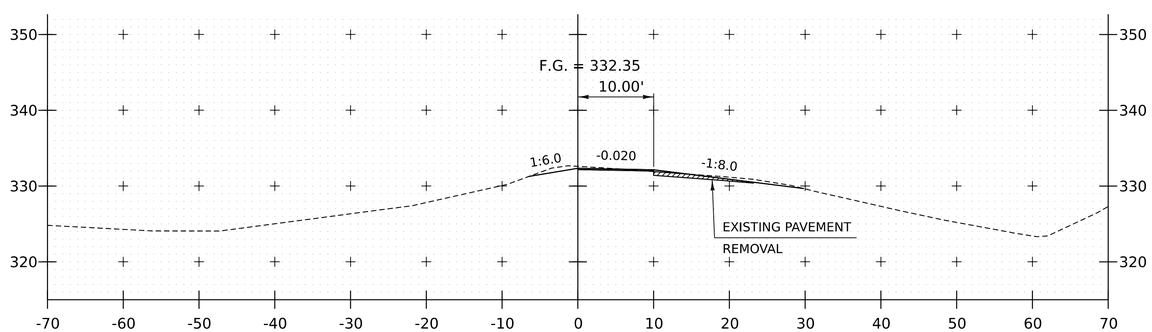
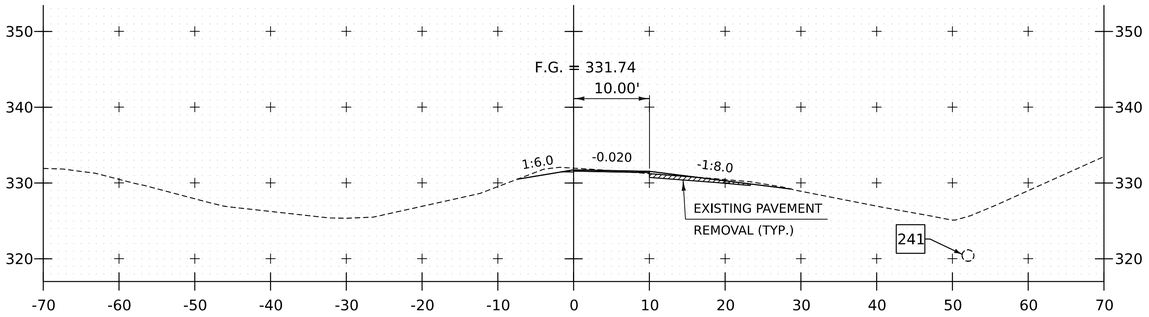


2021+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 3		SHEET	651 OF 922

HNTB



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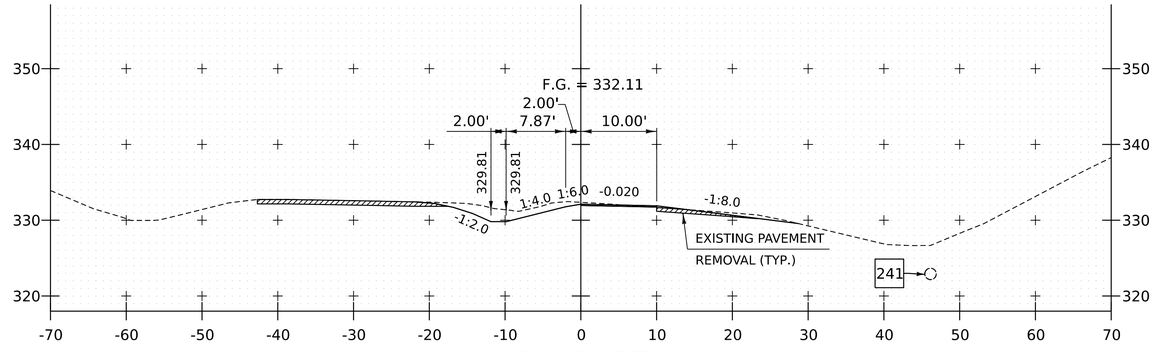

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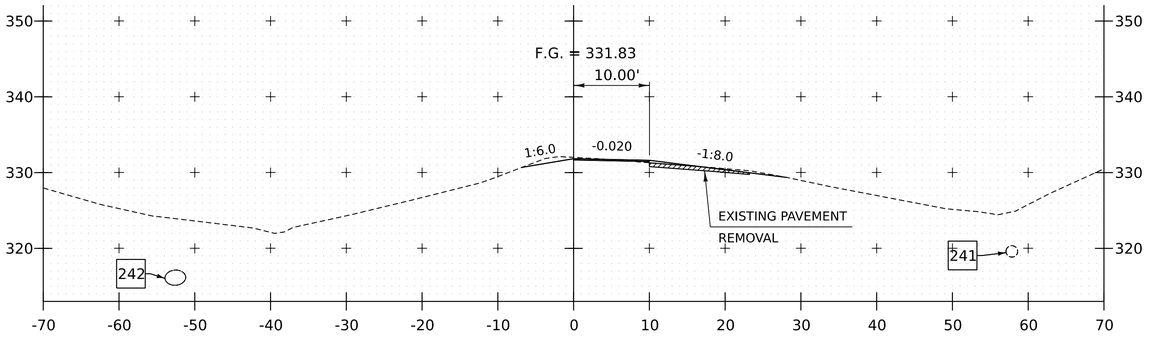

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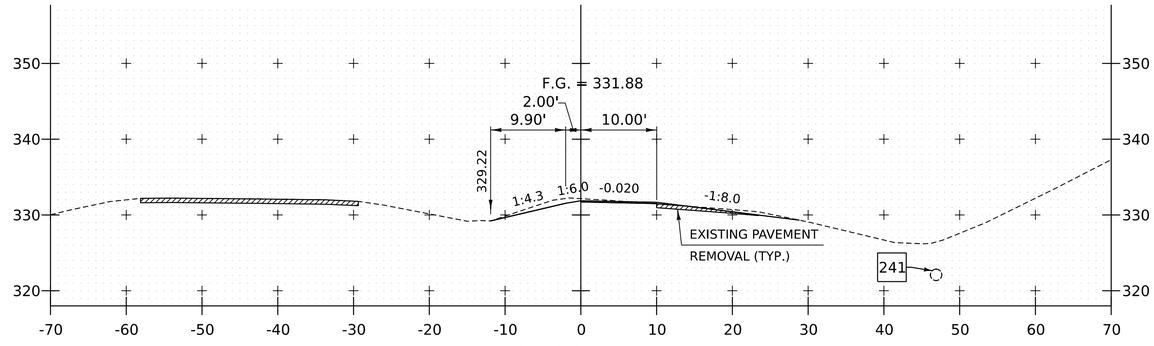

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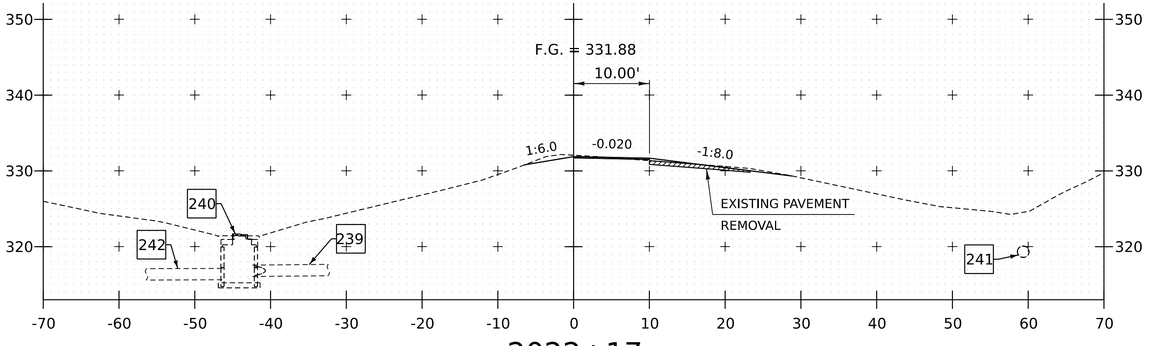

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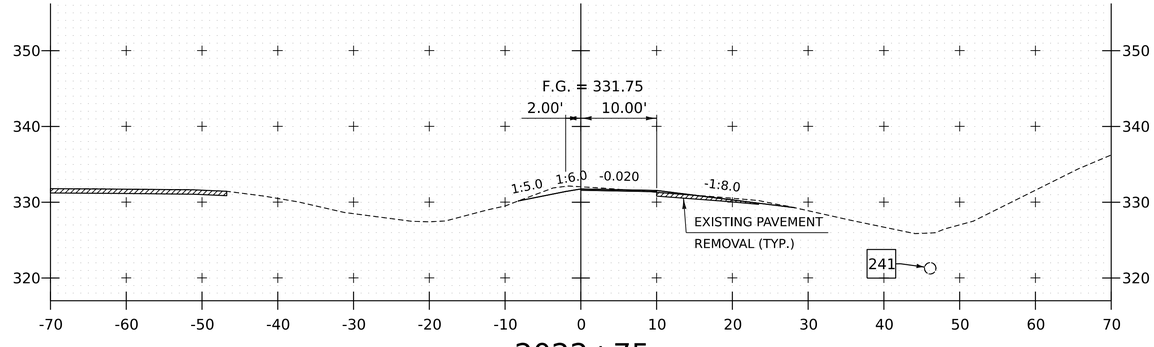
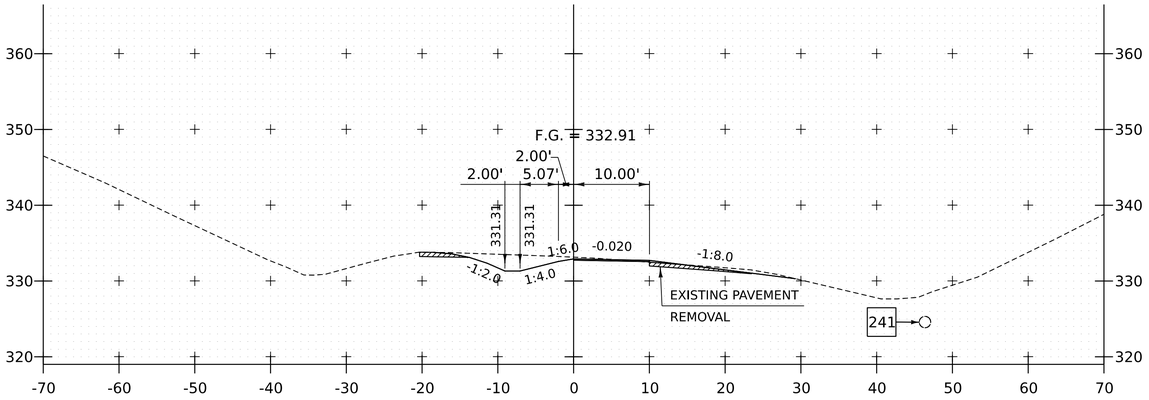


2022+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 4		SHEET	652 OF 922

HNTB



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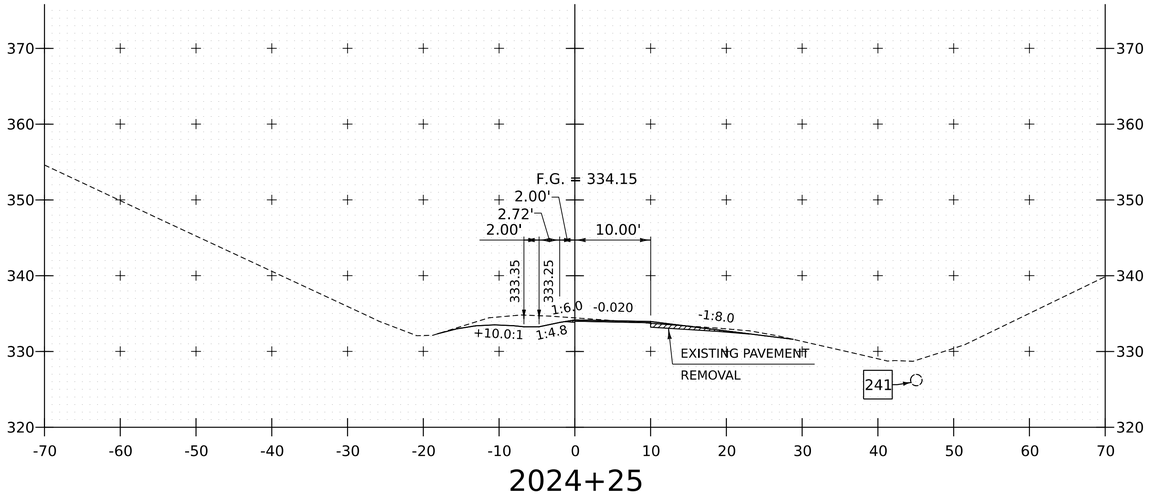

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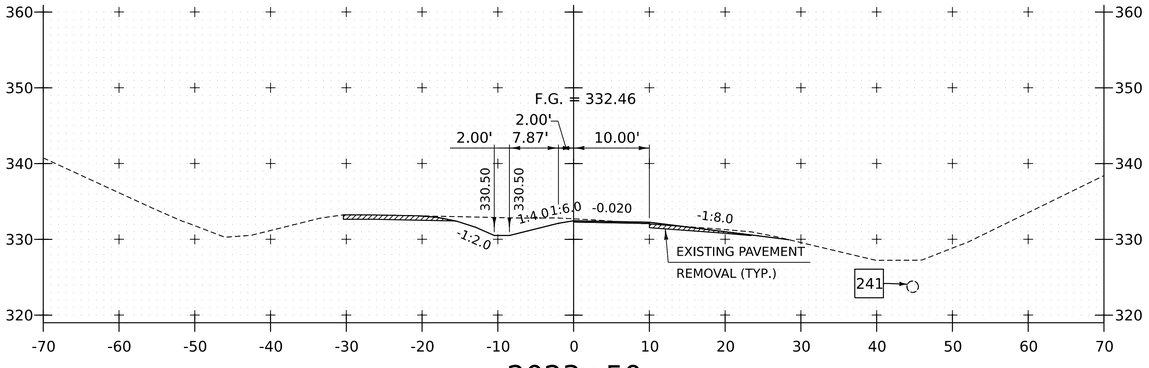

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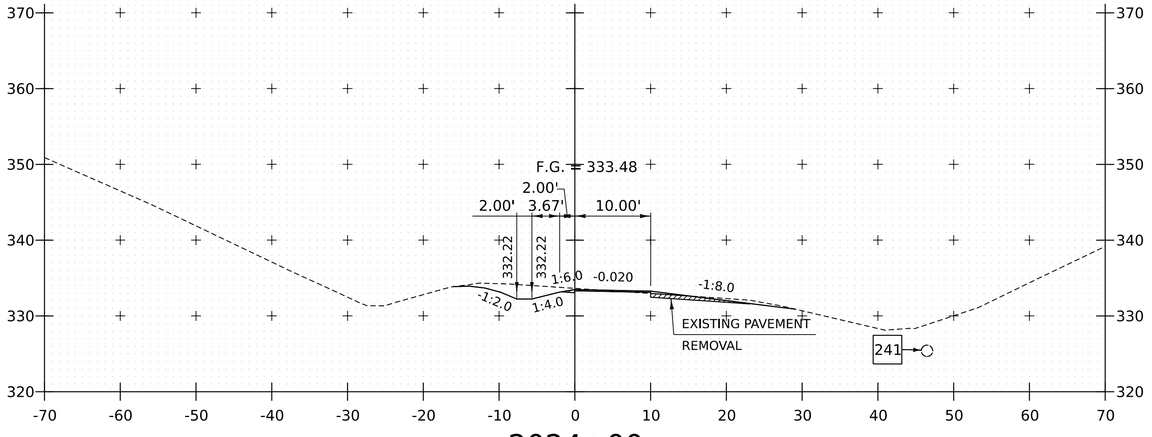
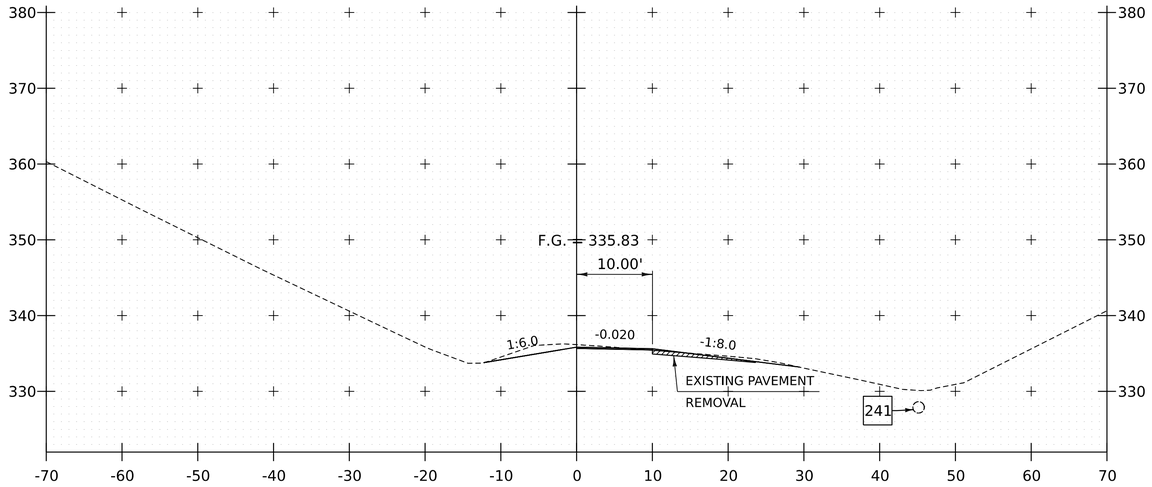


2024+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 5		SHEET	653 OF 922



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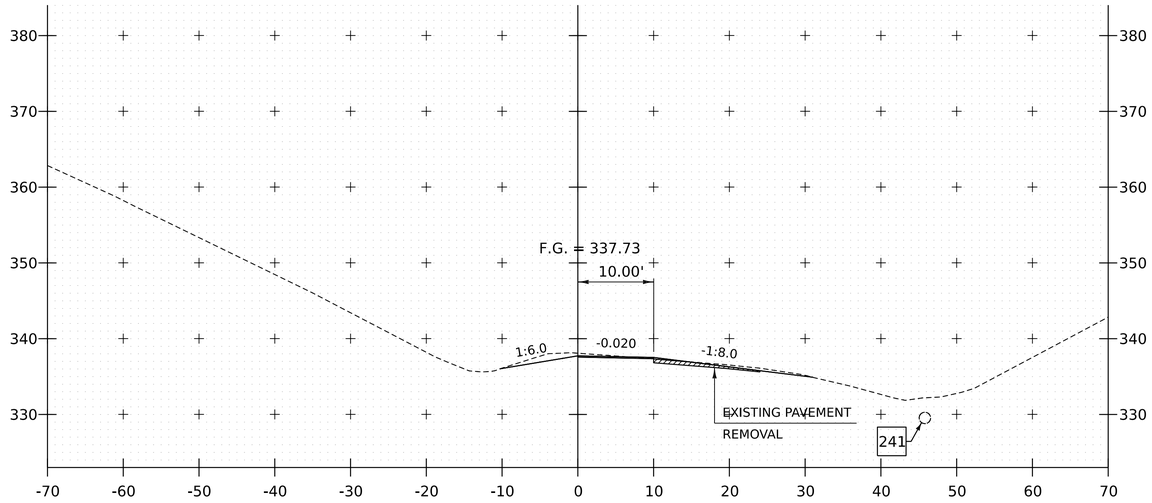

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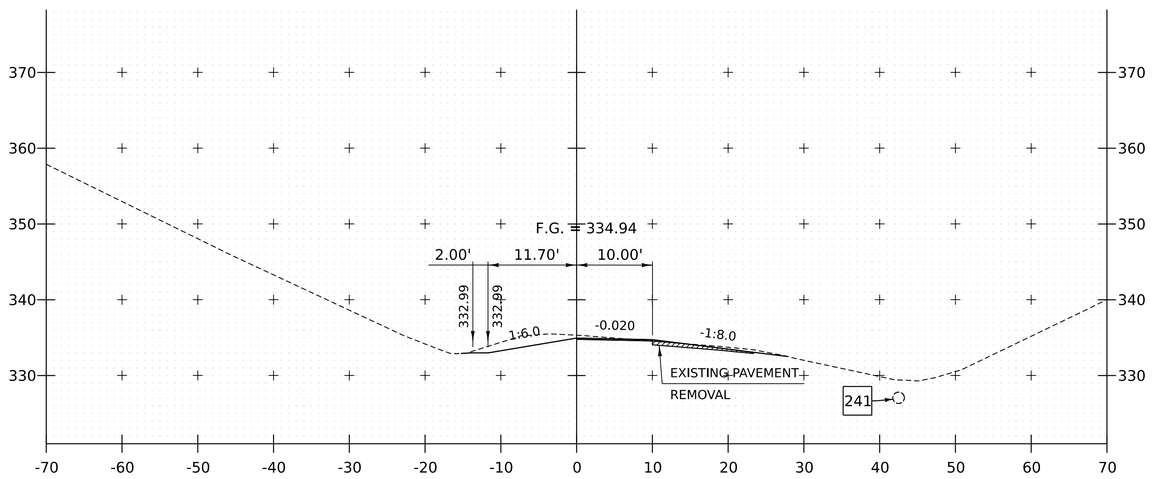

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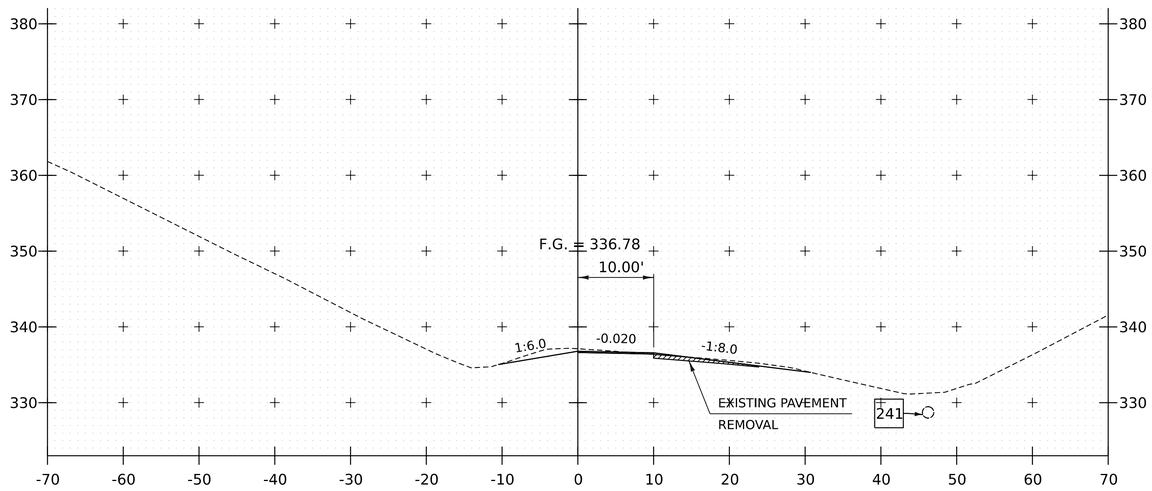
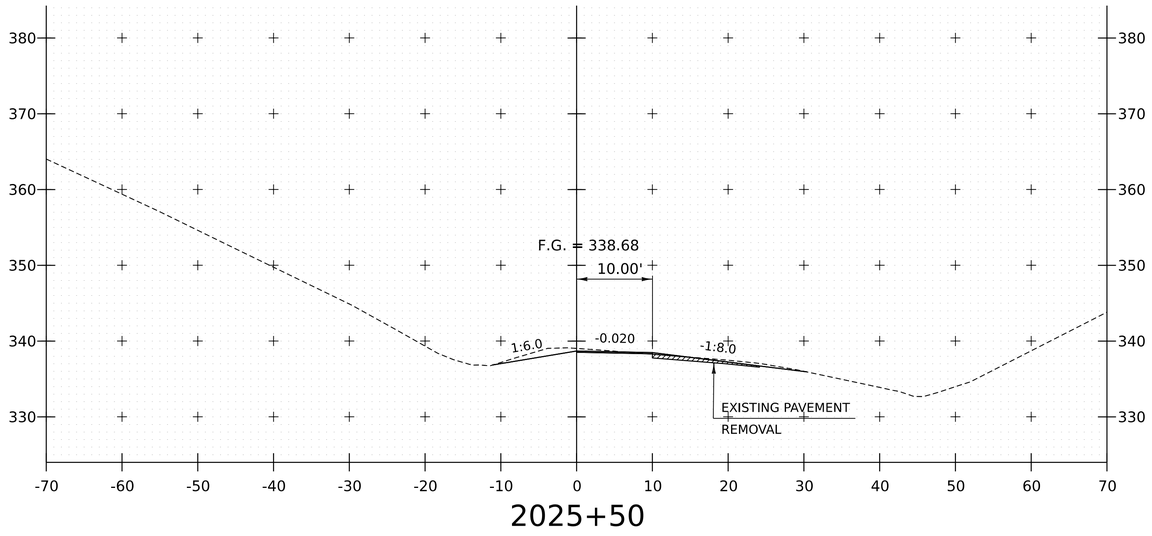


2025+00

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 6		SHEET	654 OF 922

HNTB



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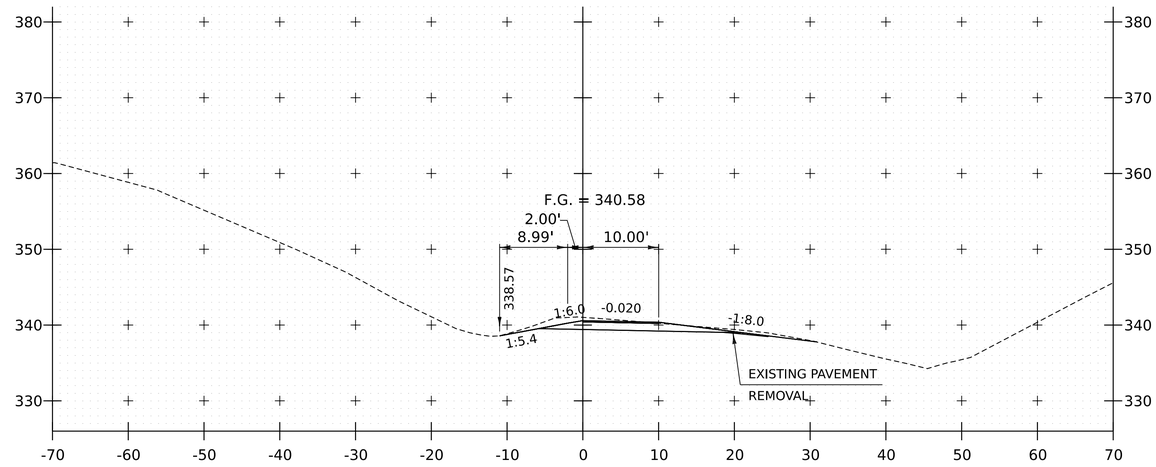

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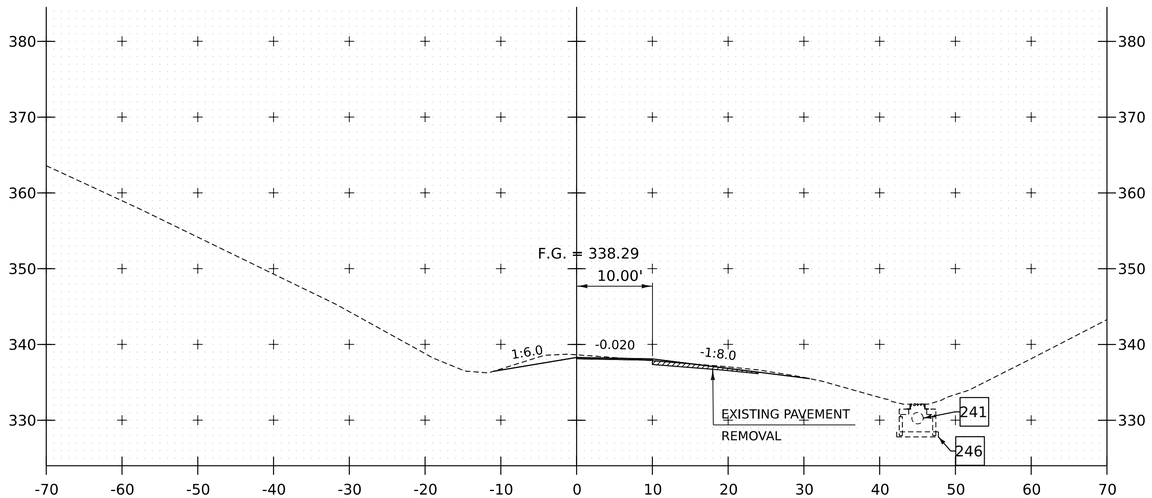

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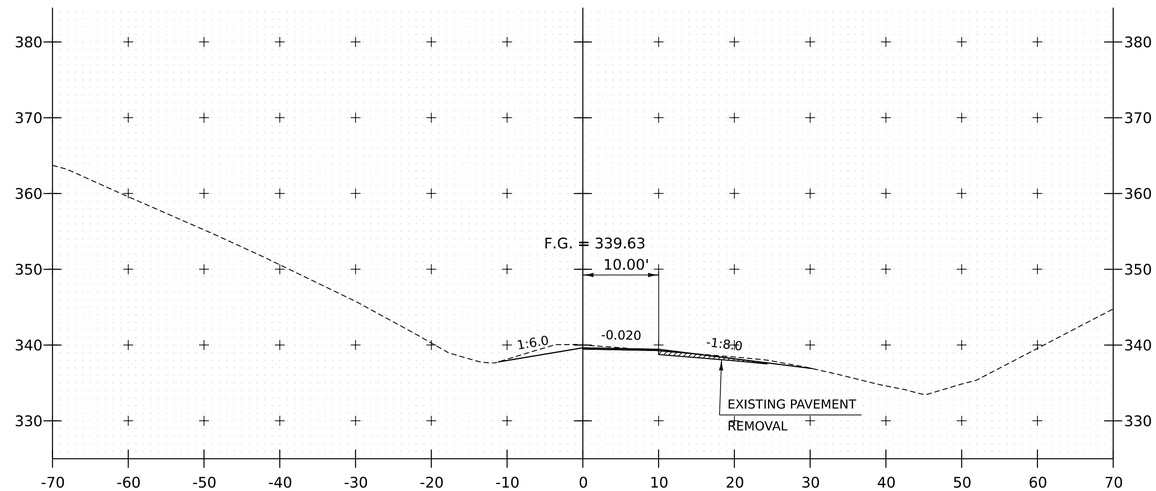
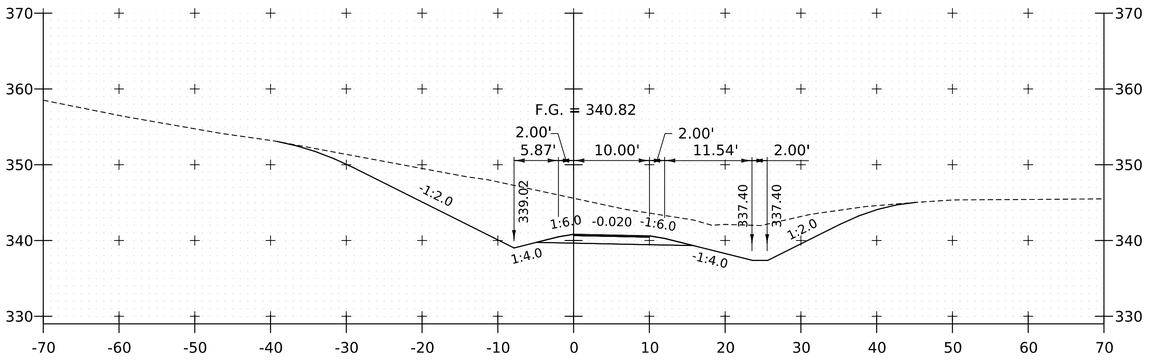


2025+75

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 7		SHEET	655 OF 922

HNTB



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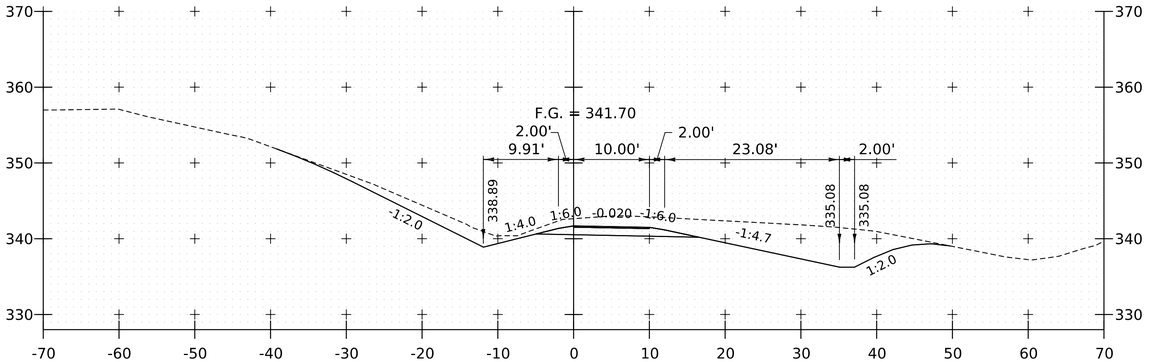

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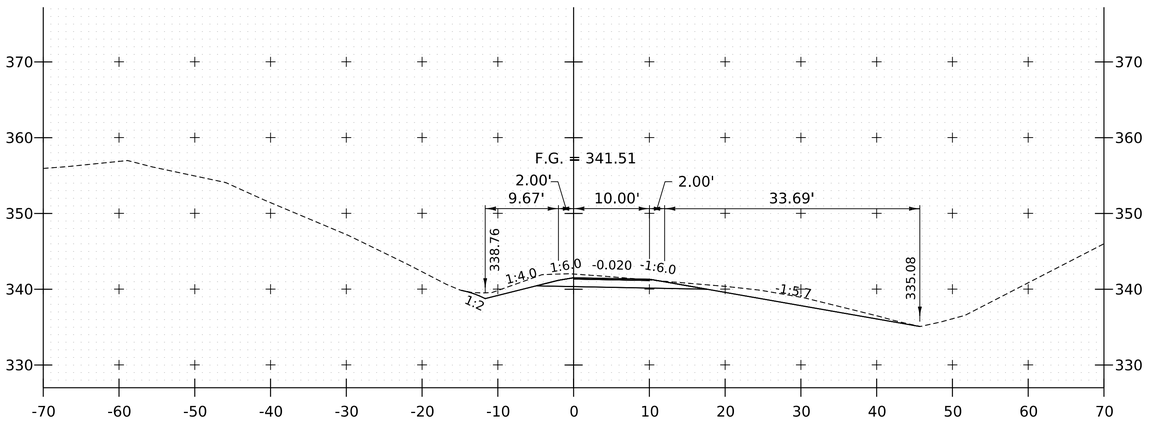
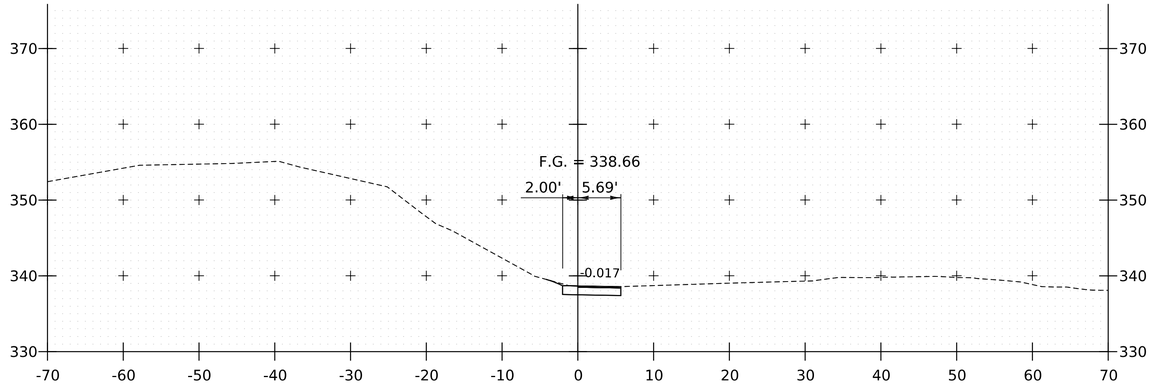


2026+25

2027+34

TOONERVILLE SHARED USE PATH

LIMIT OF WORK



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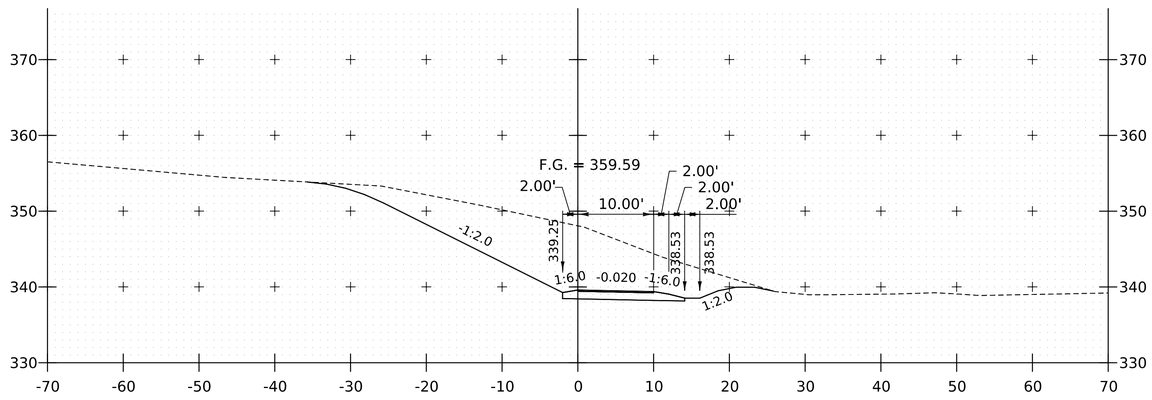
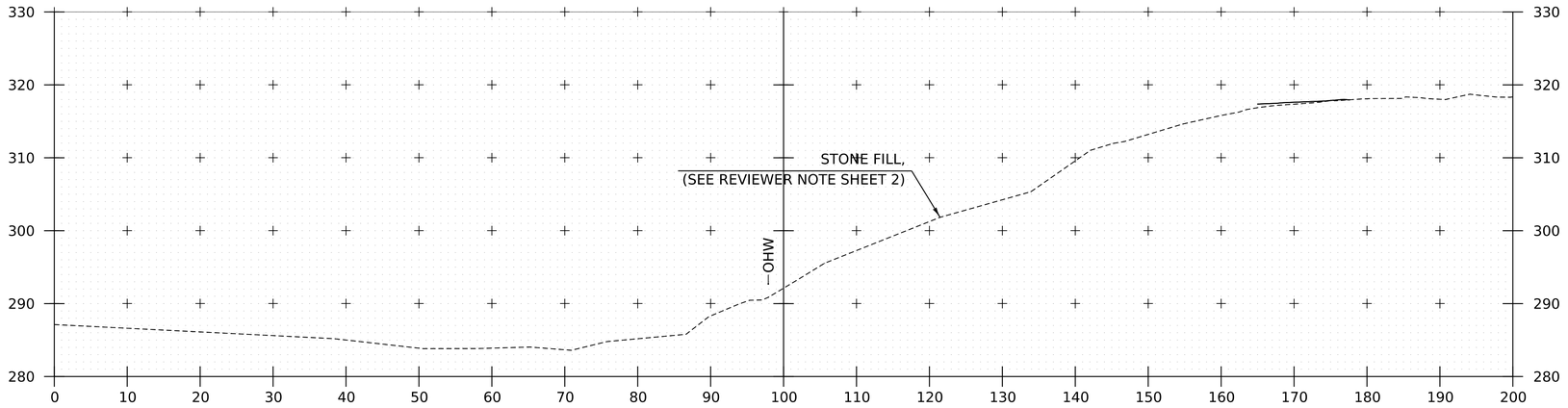


2027+00

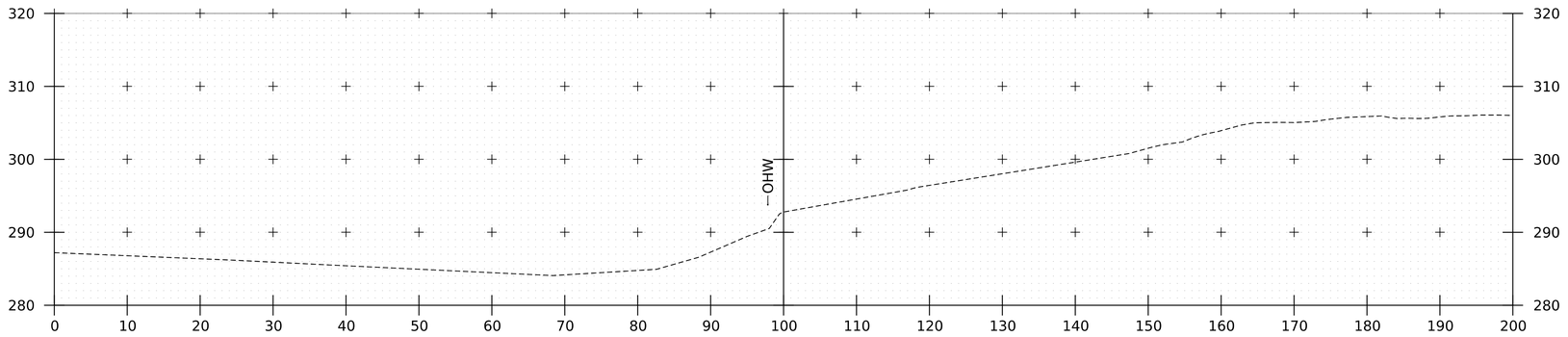
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Rte5_Path.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	P. SHEDD
SHARED USE PATH CROSS SECTIONS 8		SHEET	656 OF 922

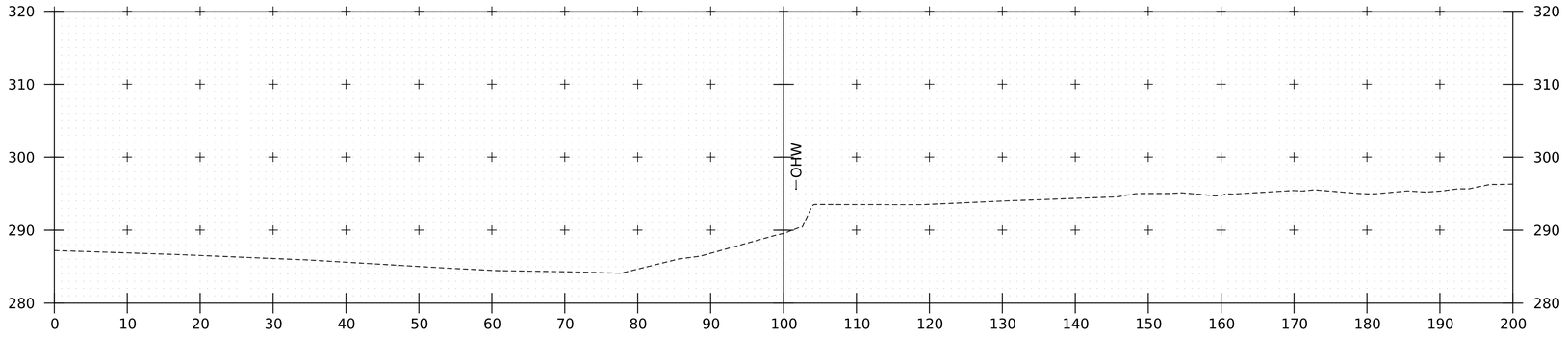
HNTB



801+25 RT



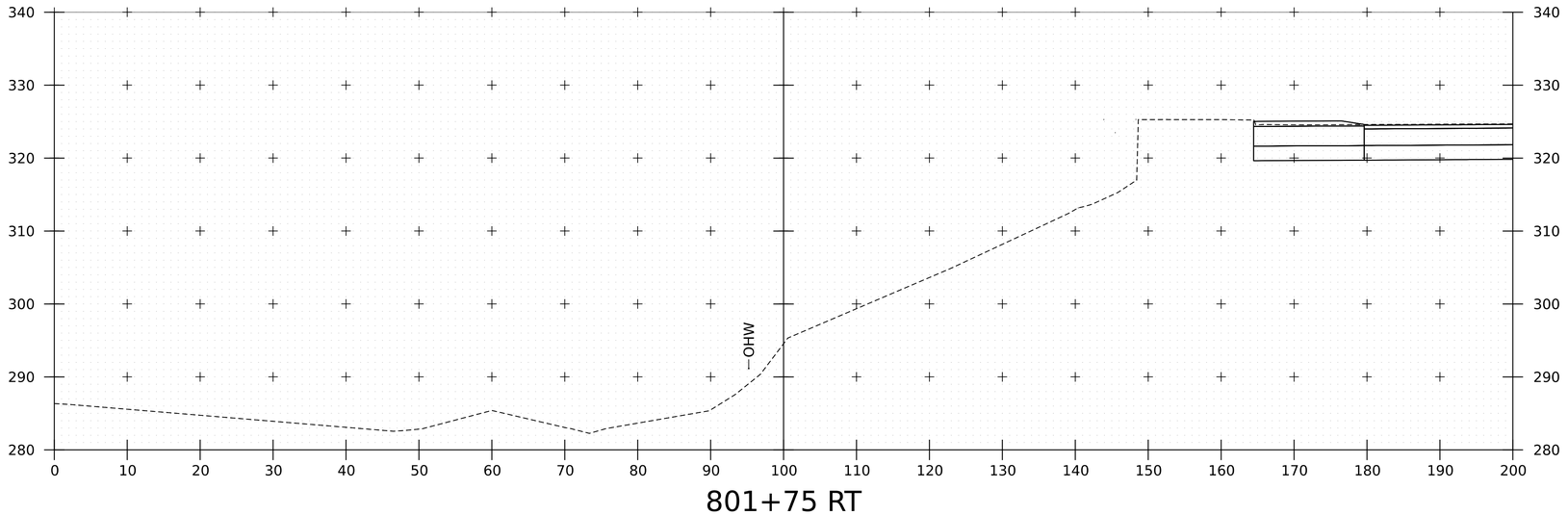
801+00 RT



800+75 RT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 1		SHEET	657 OF 922



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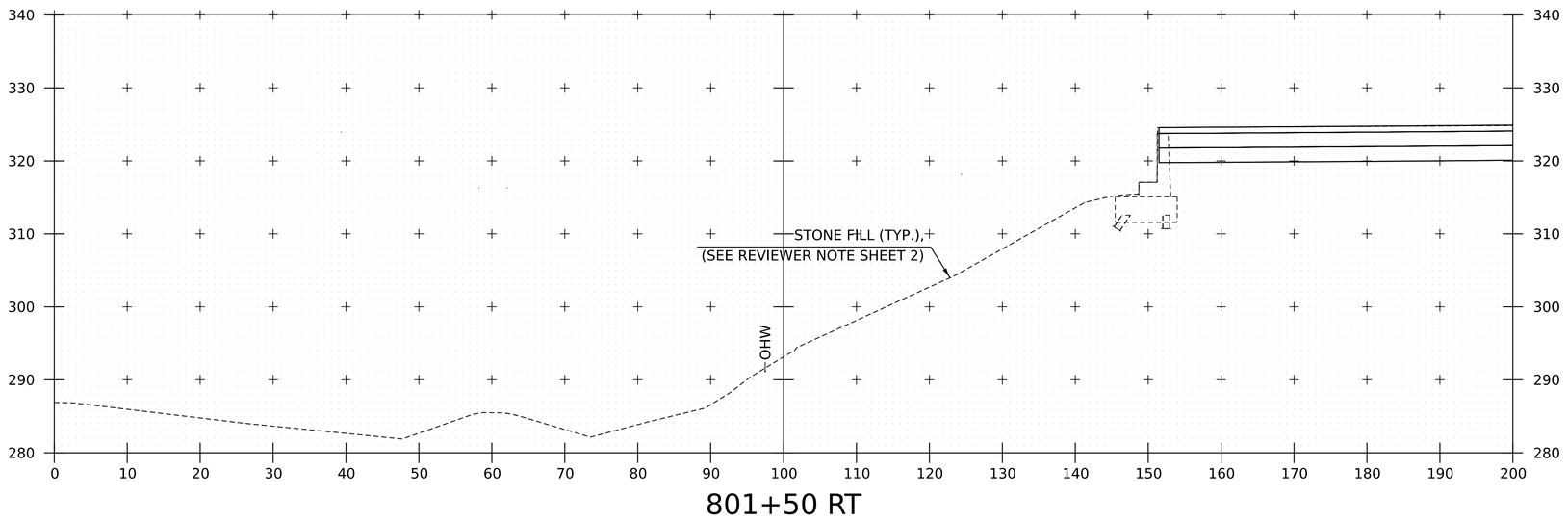
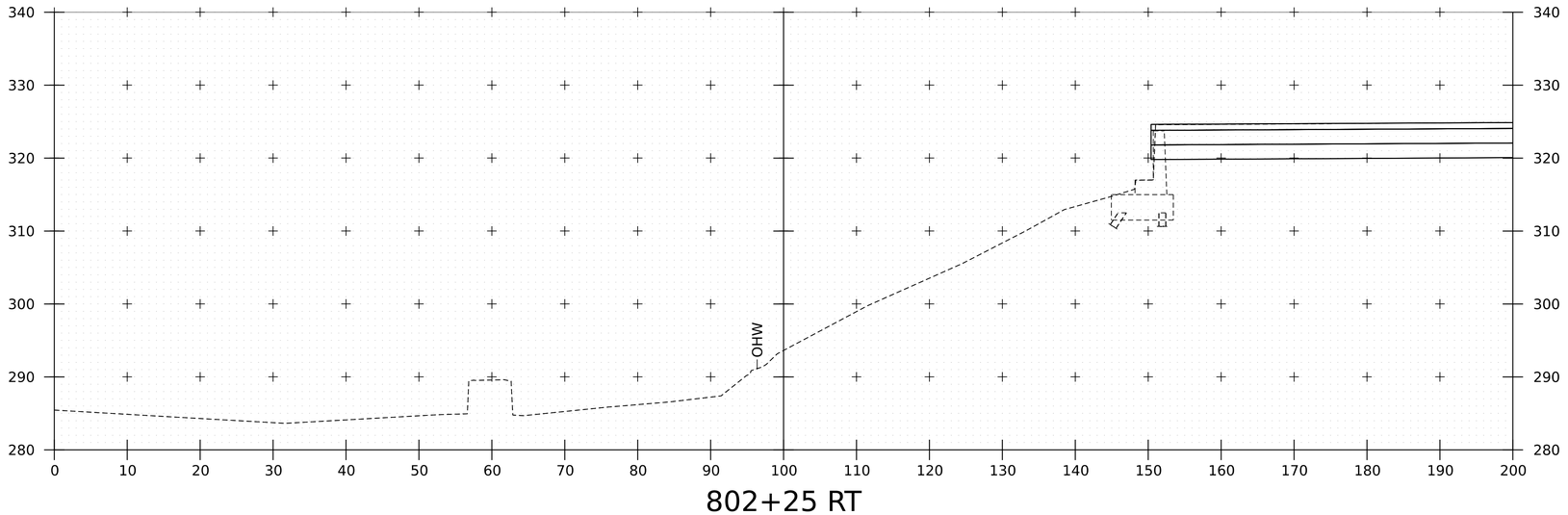


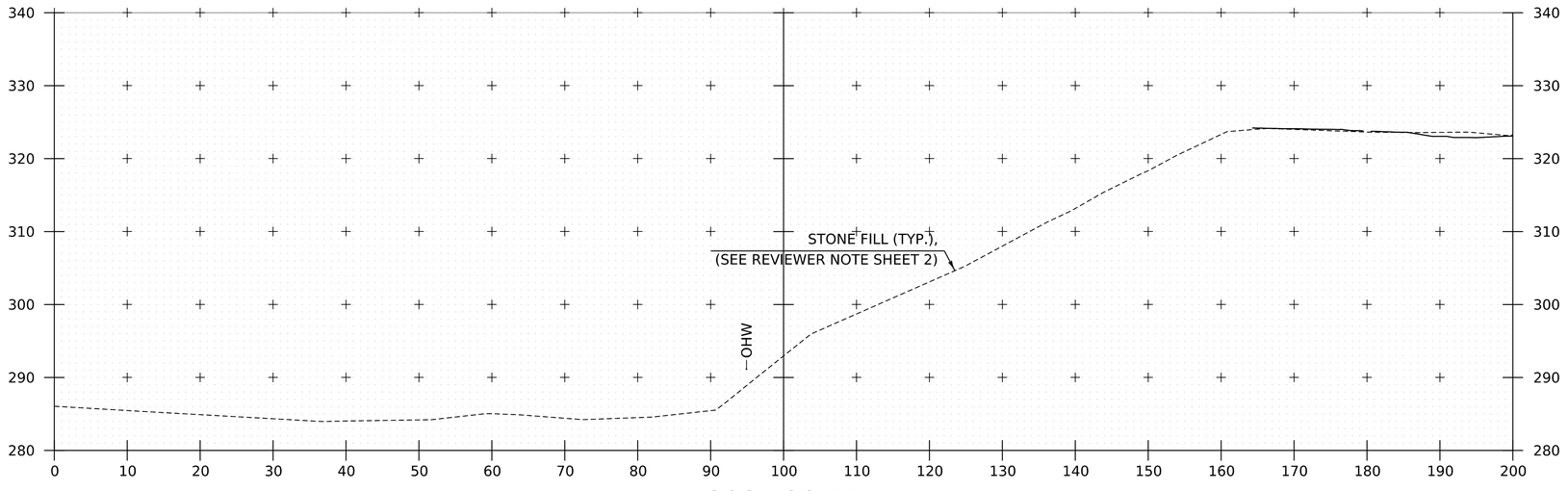
801+50 RT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Black_River.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 2	SHEET 658 OF 922

HNTB



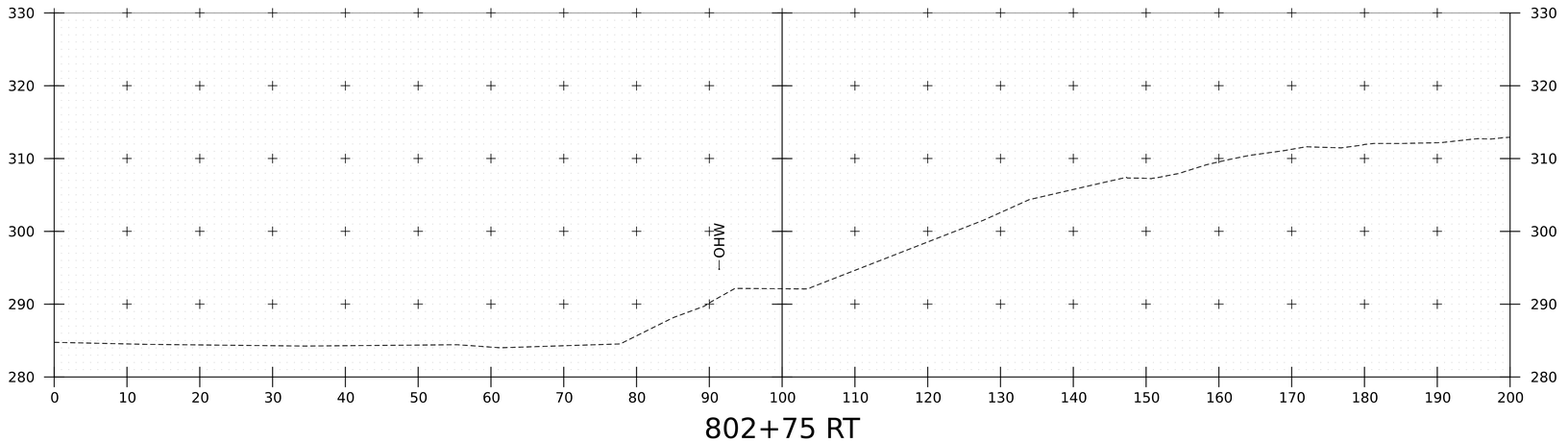
802+25 RT



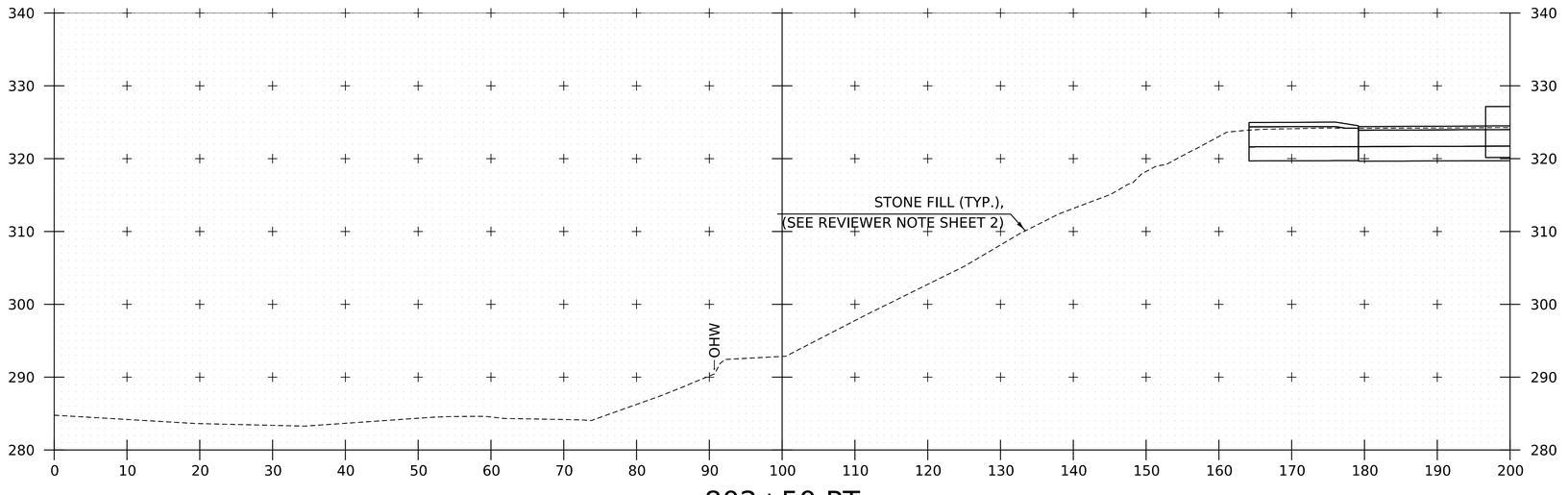
802+00 RT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Black_River.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 3	SHEET 659 OF 922

HNTB



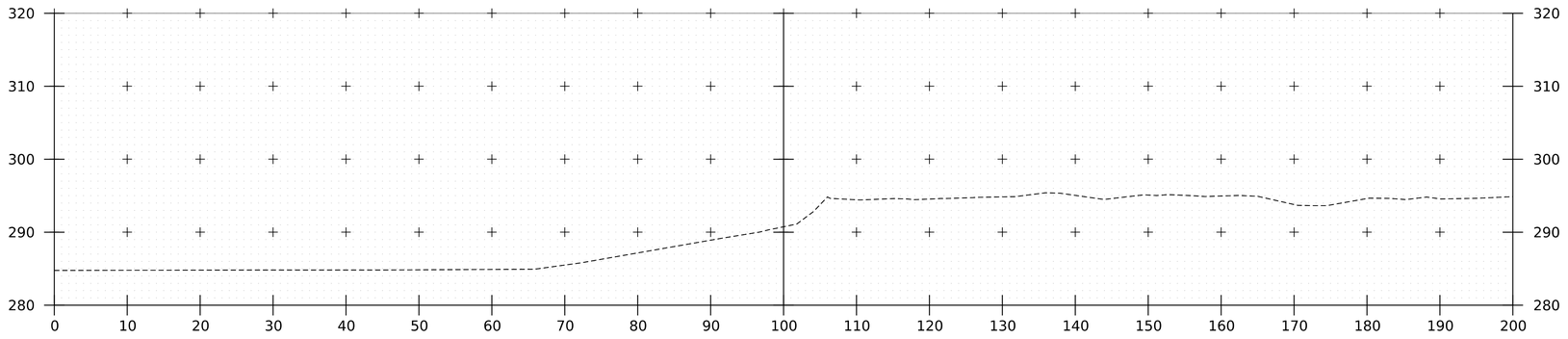
802+75 RT



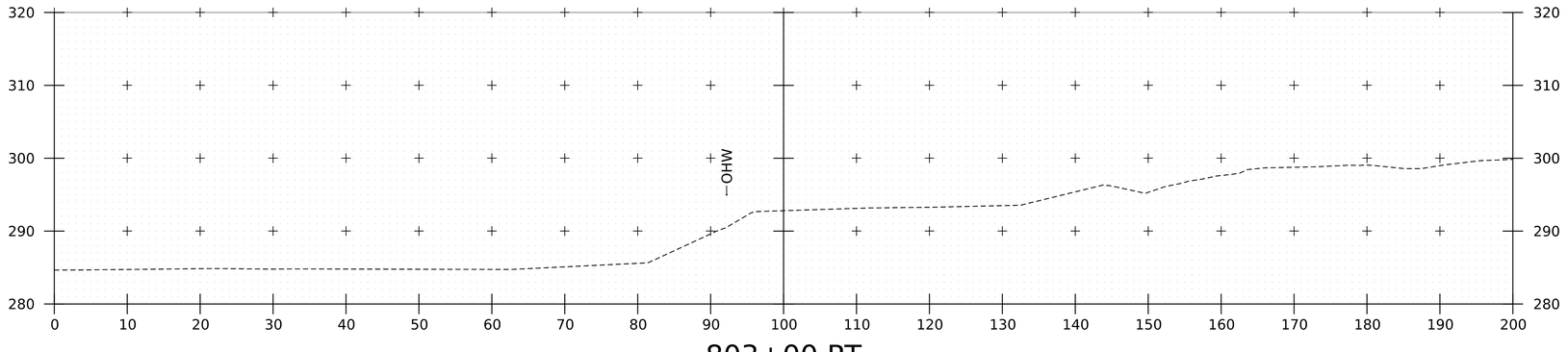
802+50 RT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 4		SHEET	660 OF 922



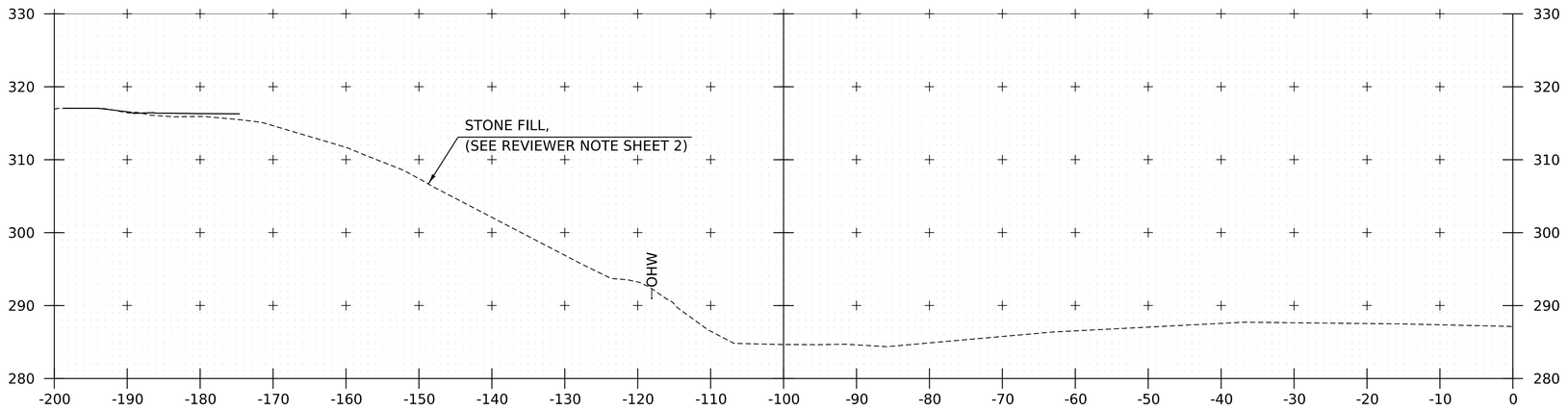
803+25 RT



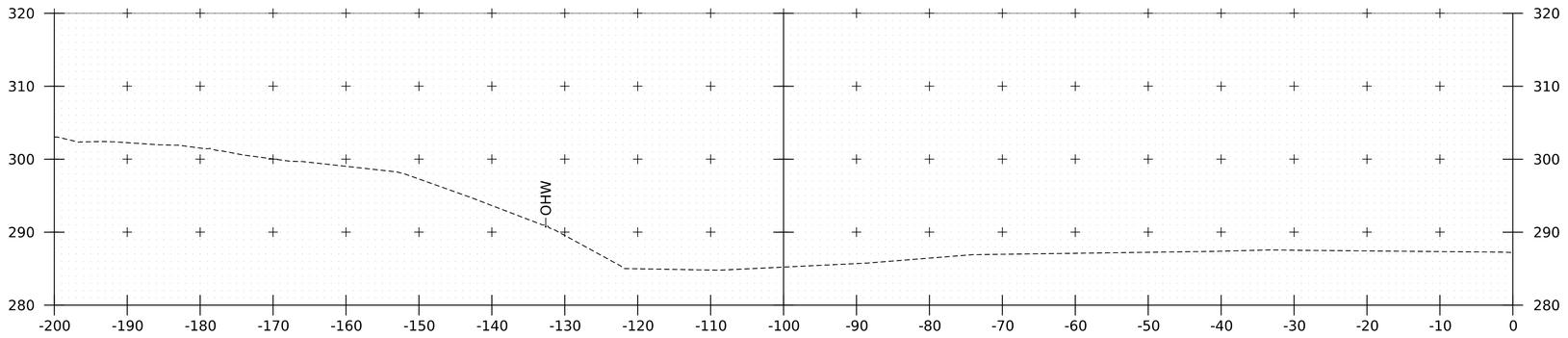
803+00 RT

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - RIGHT 5		SHEET	661 OF 922

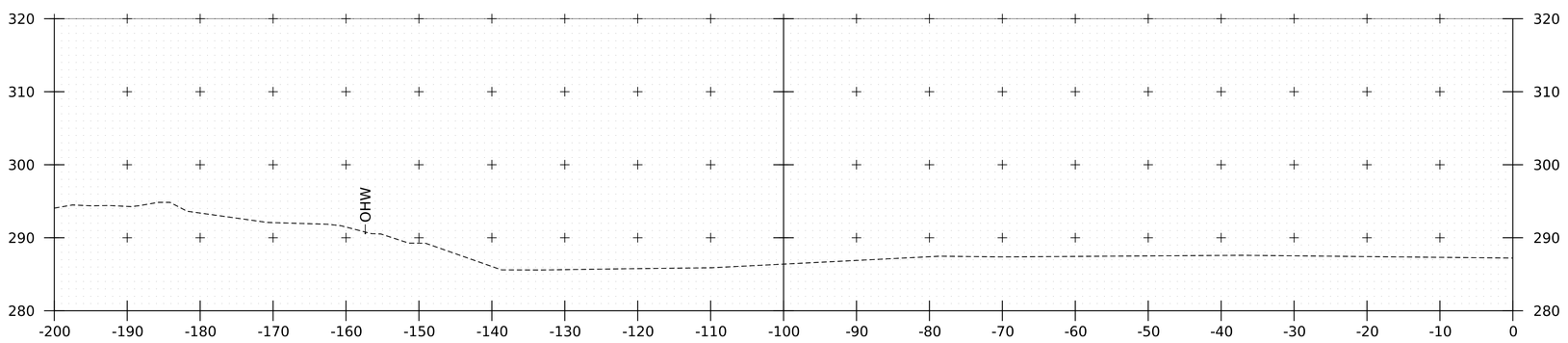
HNTB



801+25 LT



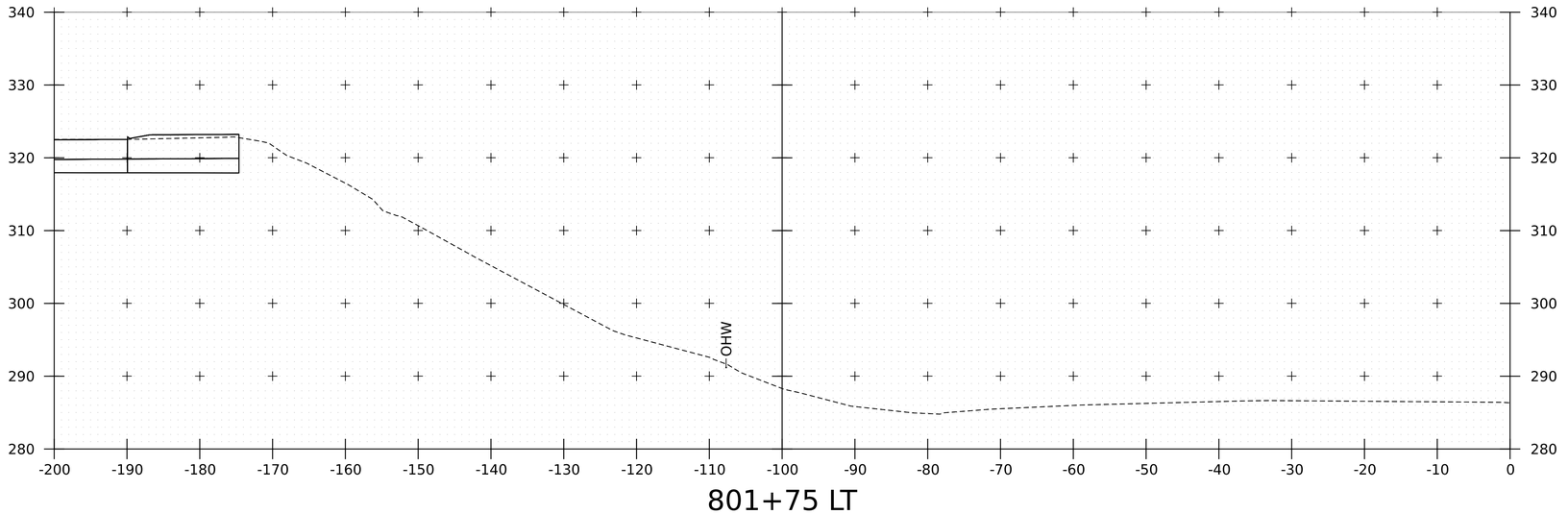
801+00 LT



800+75 LT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 1		SHEET	662 OF 922



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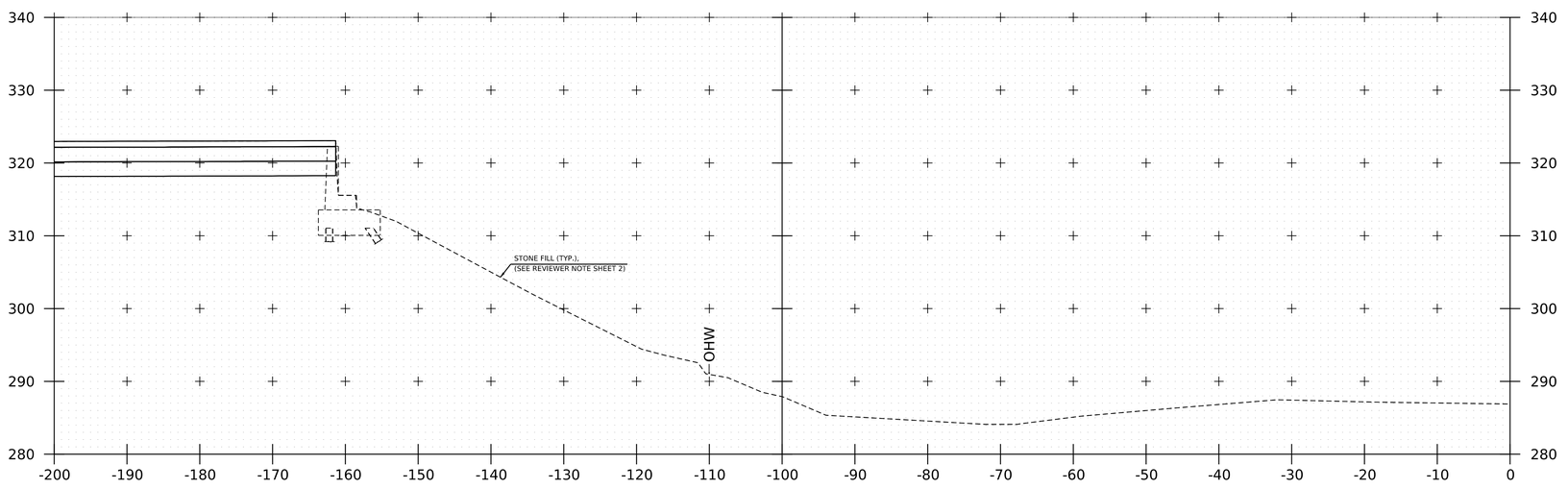
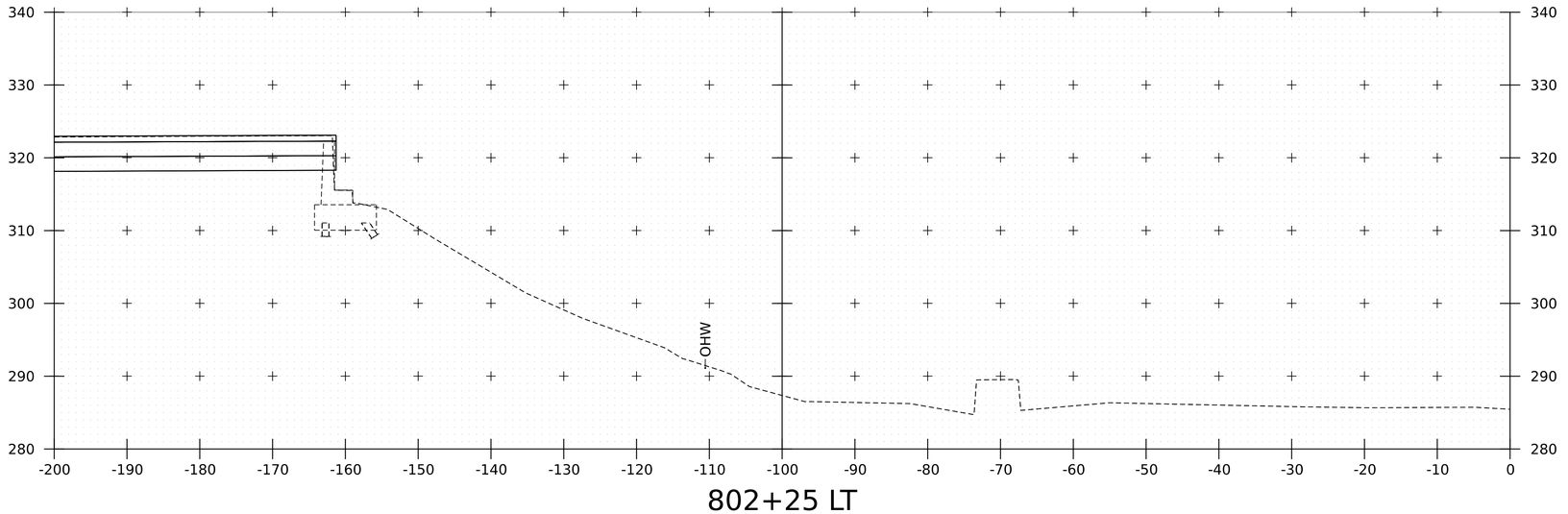


801+50 LT

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 2		SHEET	663 OF 922

HNTB



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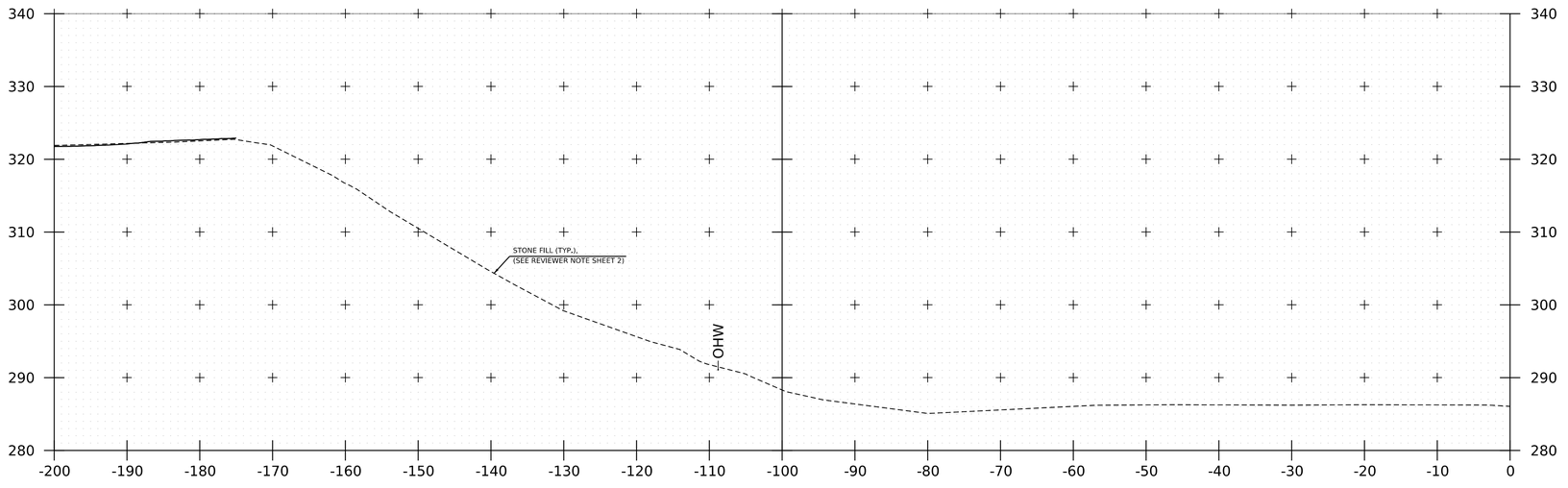

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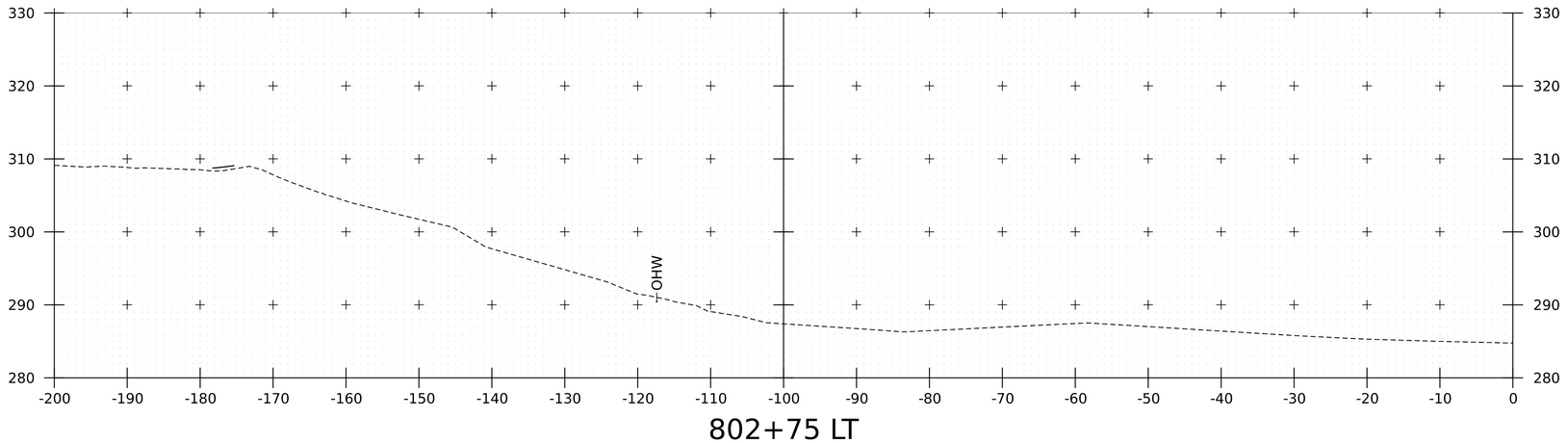
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Black_River.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 3	SHEET 664 OF 922



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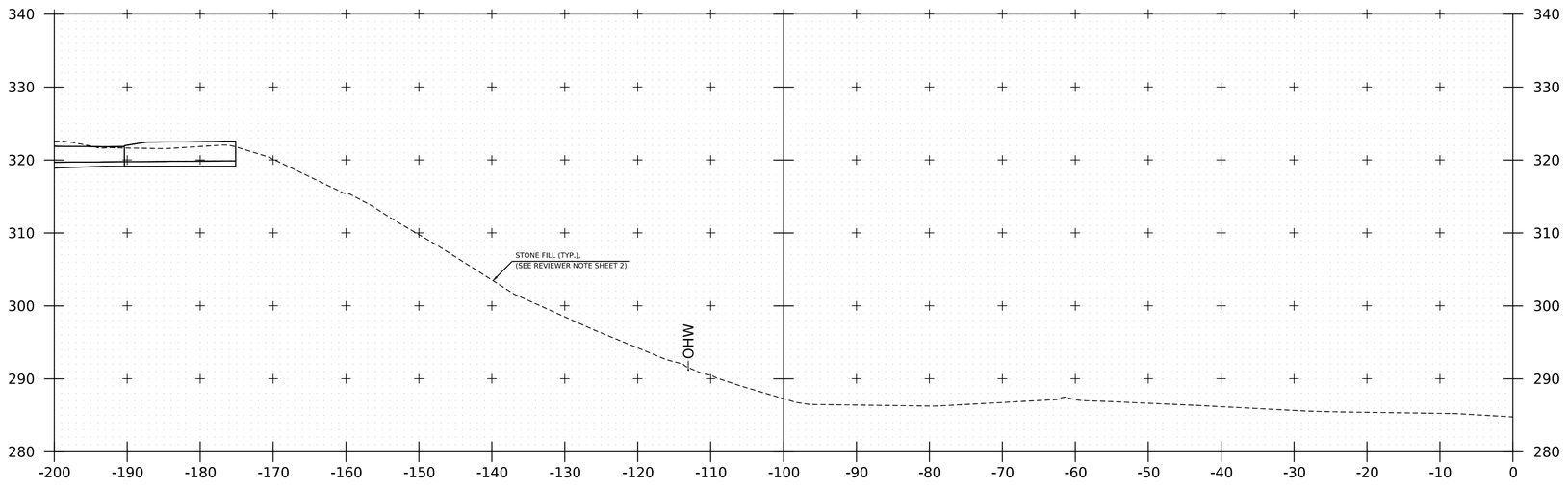

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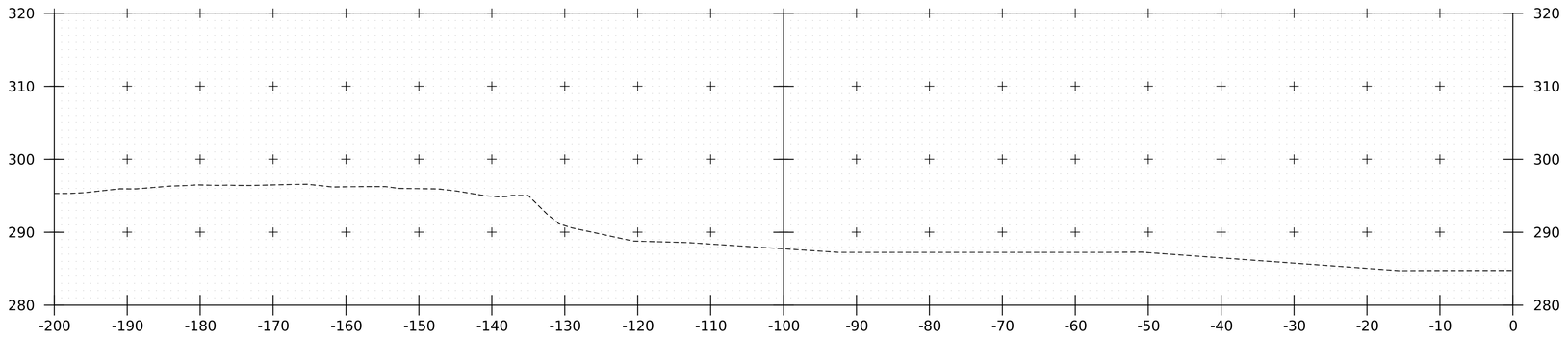
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 4		SHEET	665 OF 922



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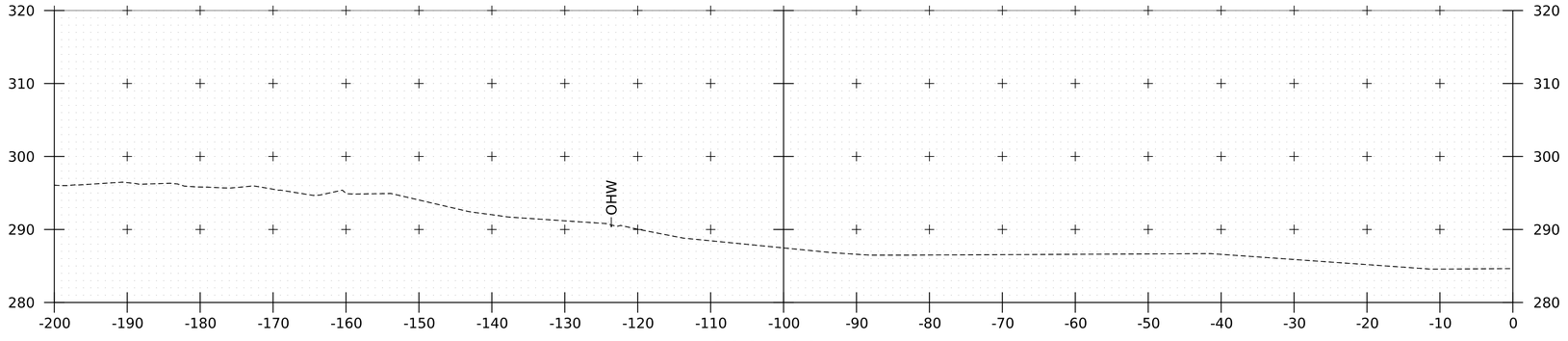

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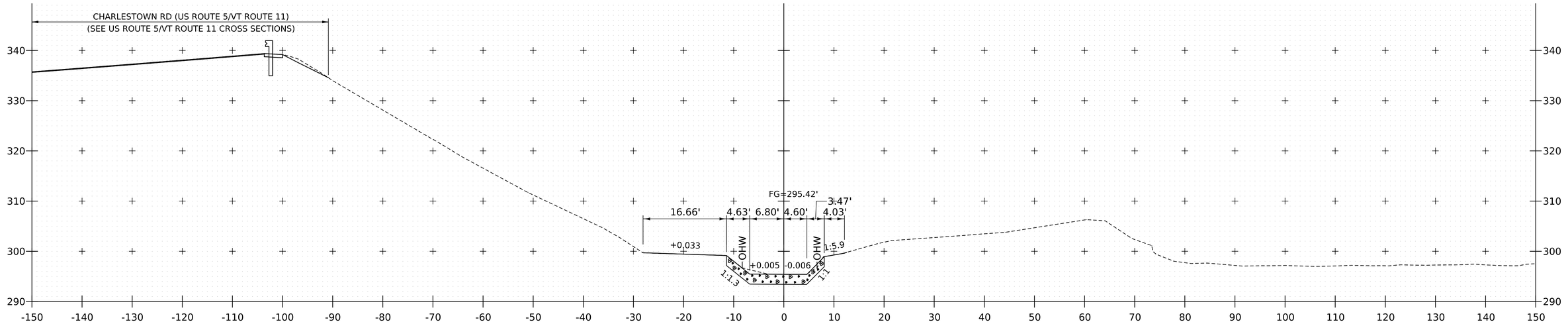
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Black_River.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
BLACK RIVER CHANNEL SECTIONS - LEFT 5		SHEET	666 OF 922

HNTB



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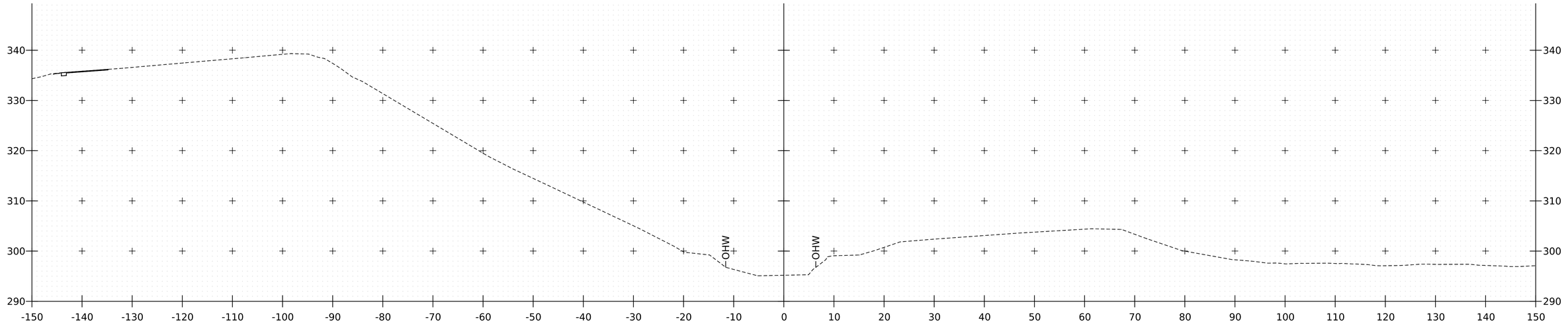
BEGIN SPENCER BROOK
STREAM RELOCATION



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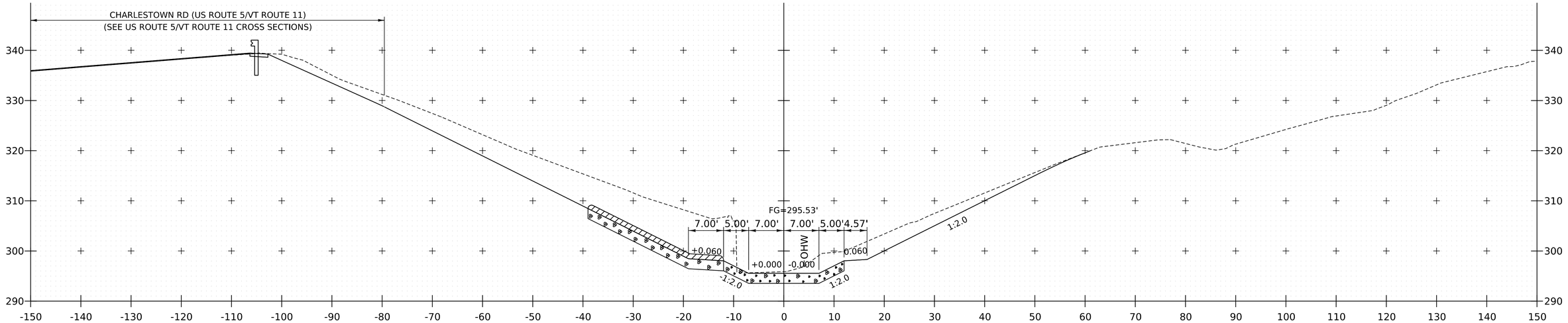
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 1	SHEET 667 OF 922

HNTB



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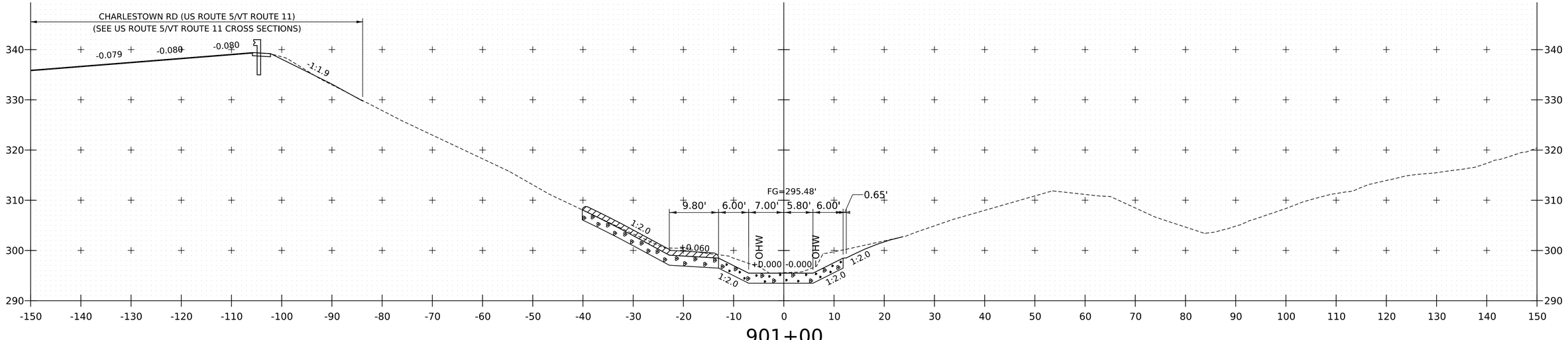

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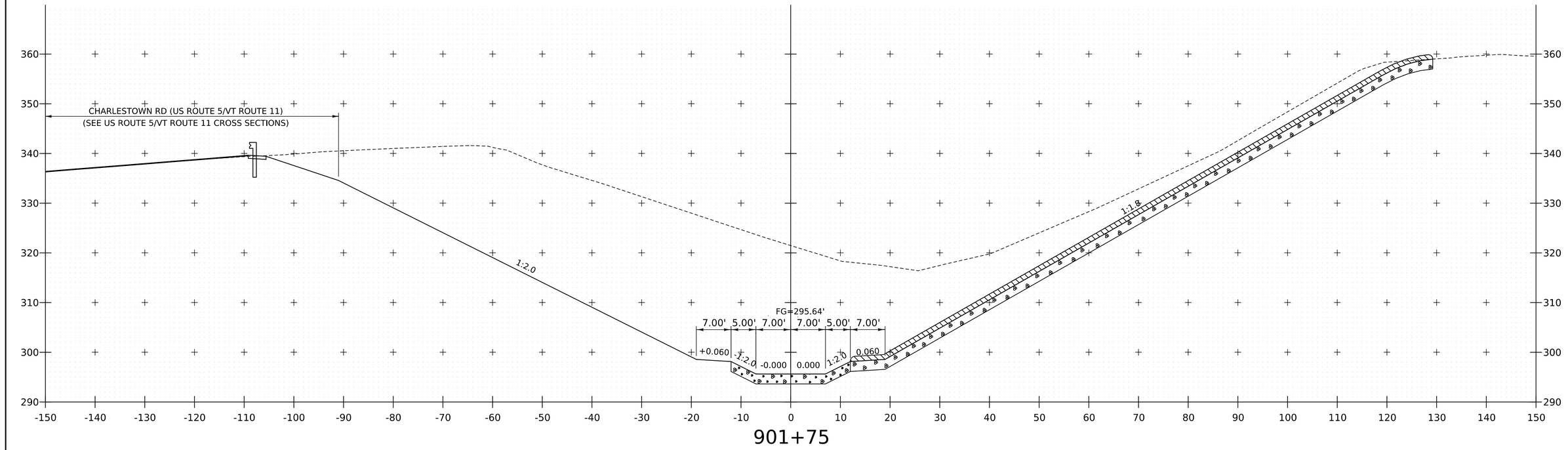
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 2		SHEET	668 OF 922

HNTB



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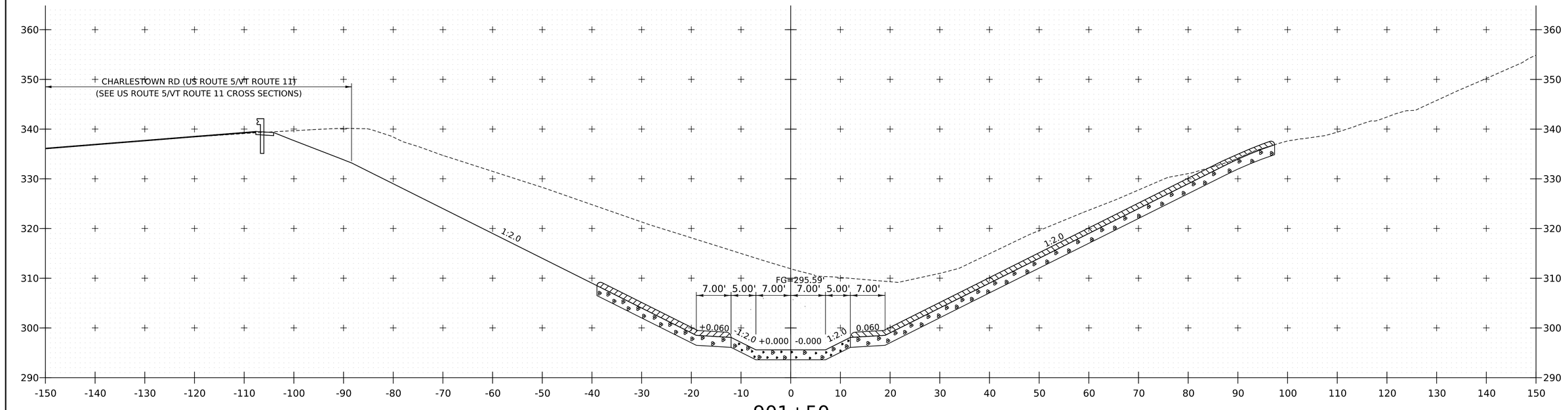

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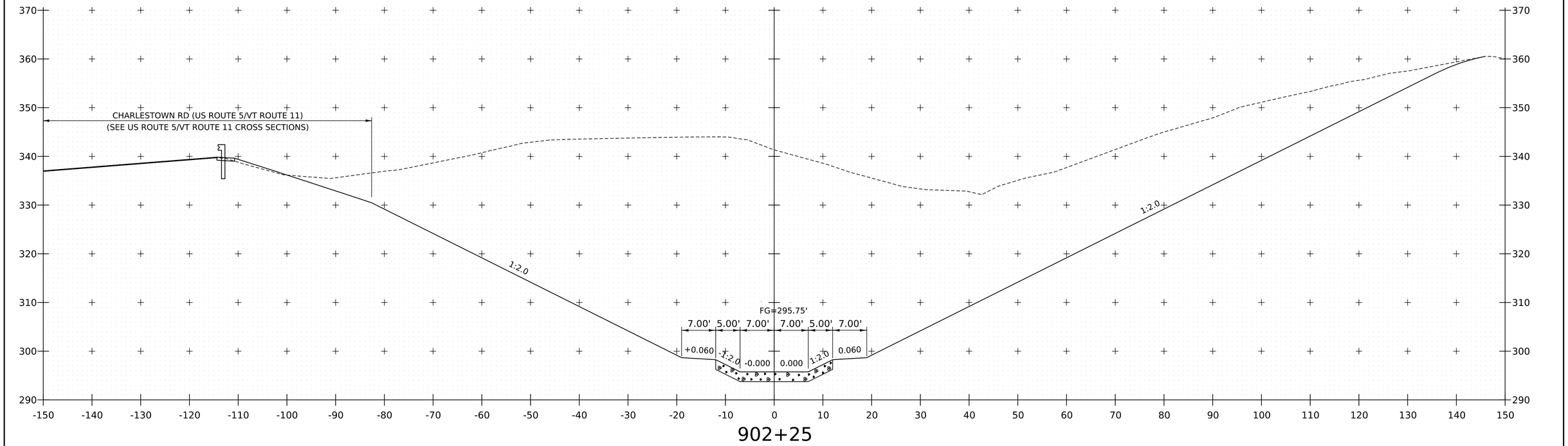
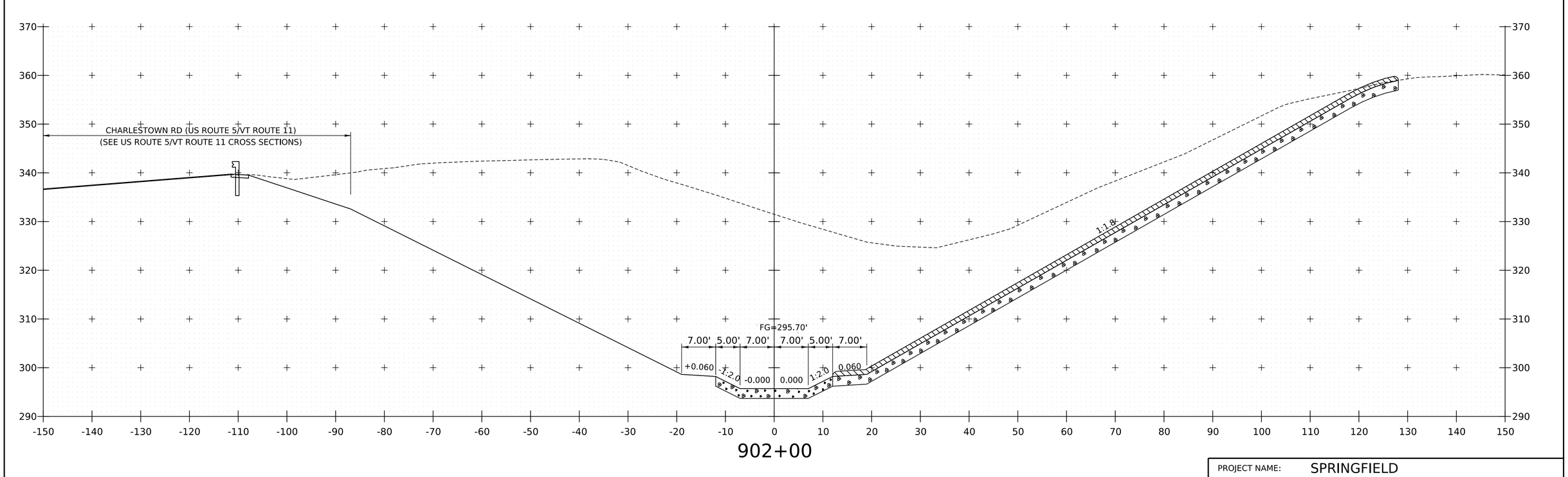
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 3		SHEET	669 OF 922

HNTB

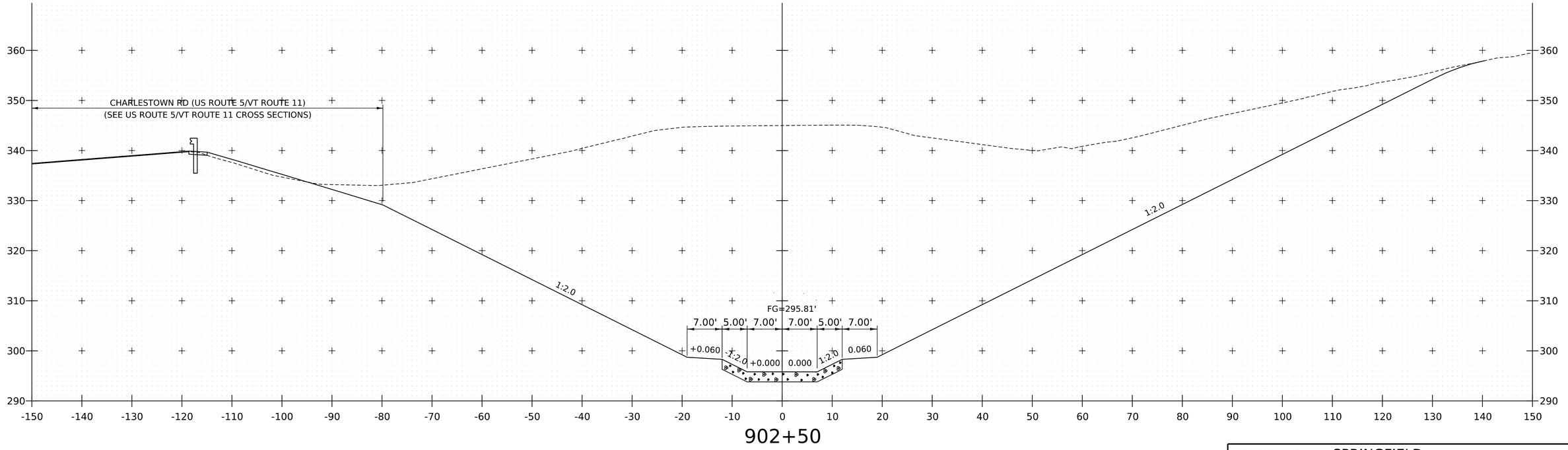




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 4		SHEET	670 OF 922

HNTB



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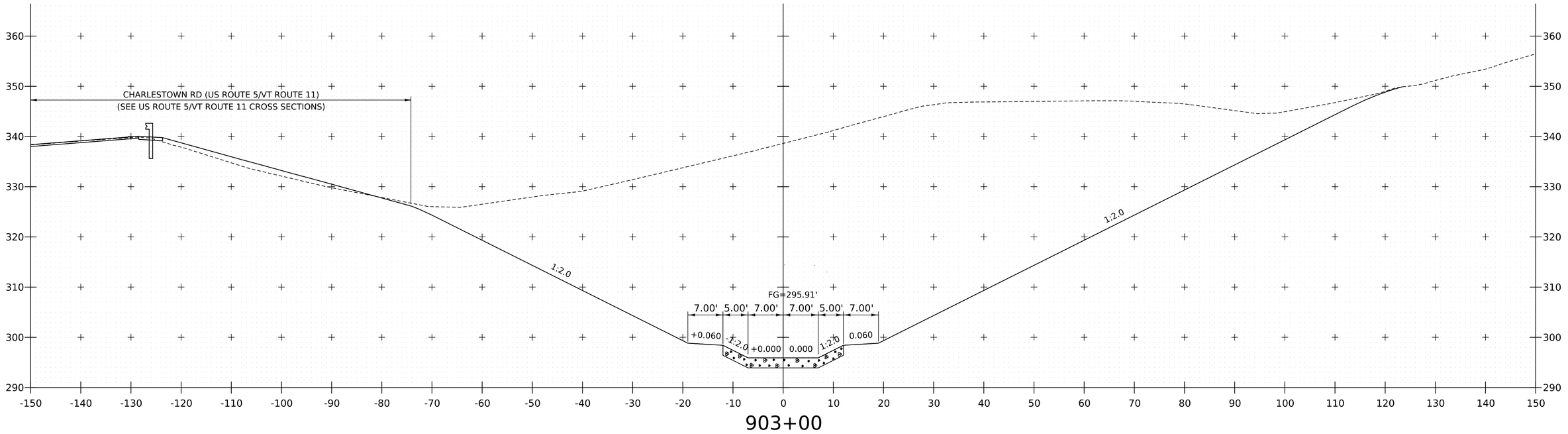
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 5		SHEET	671 OF 922

HNTB



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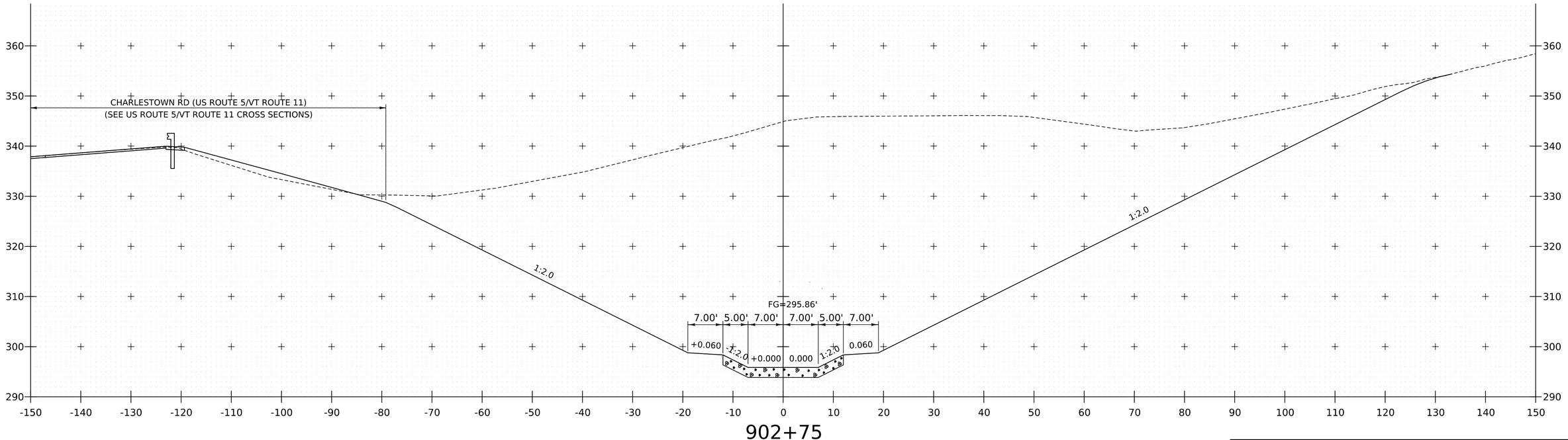

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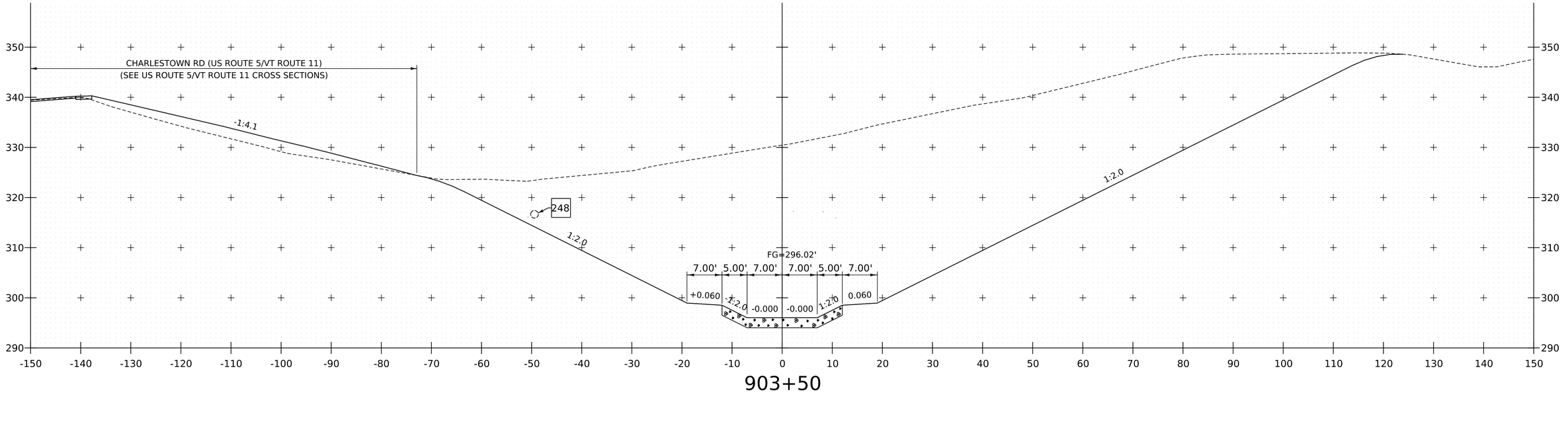
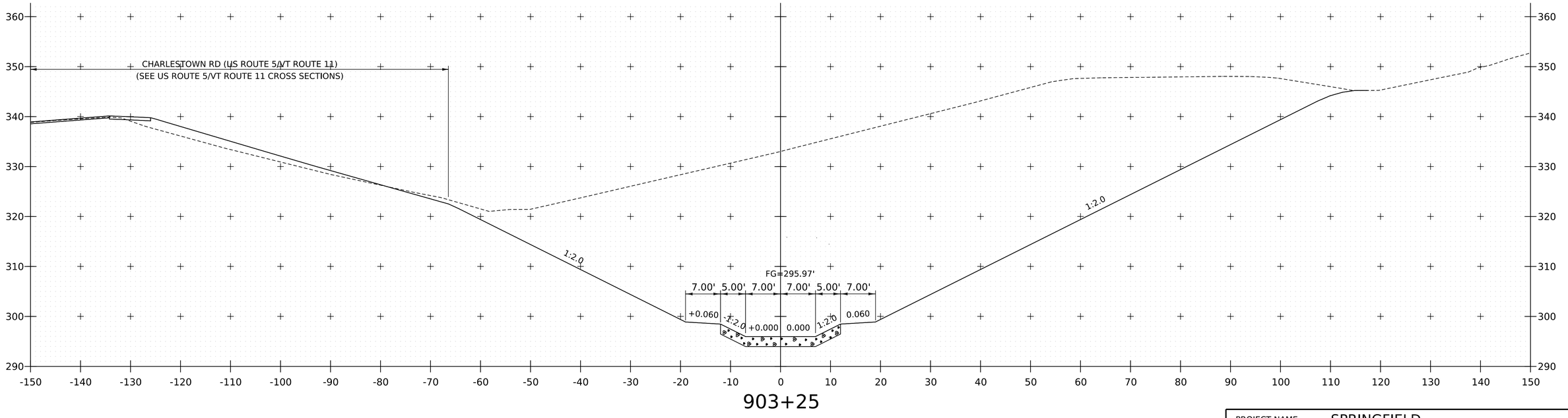
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 6		SHEET	672 OF 922

HNTB

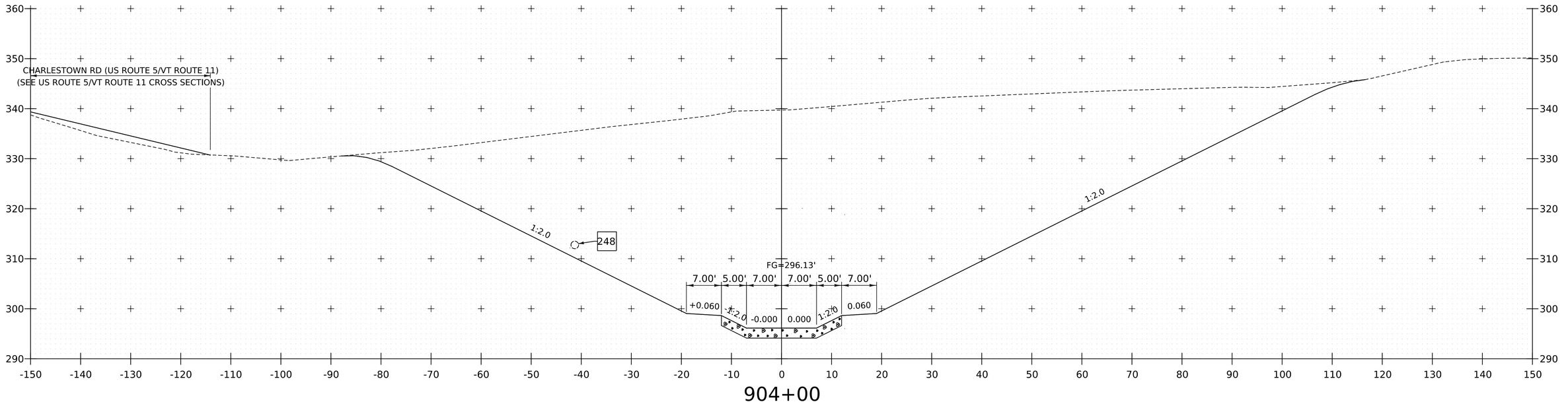




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 7		SHEET	673 OF 922

HNTB



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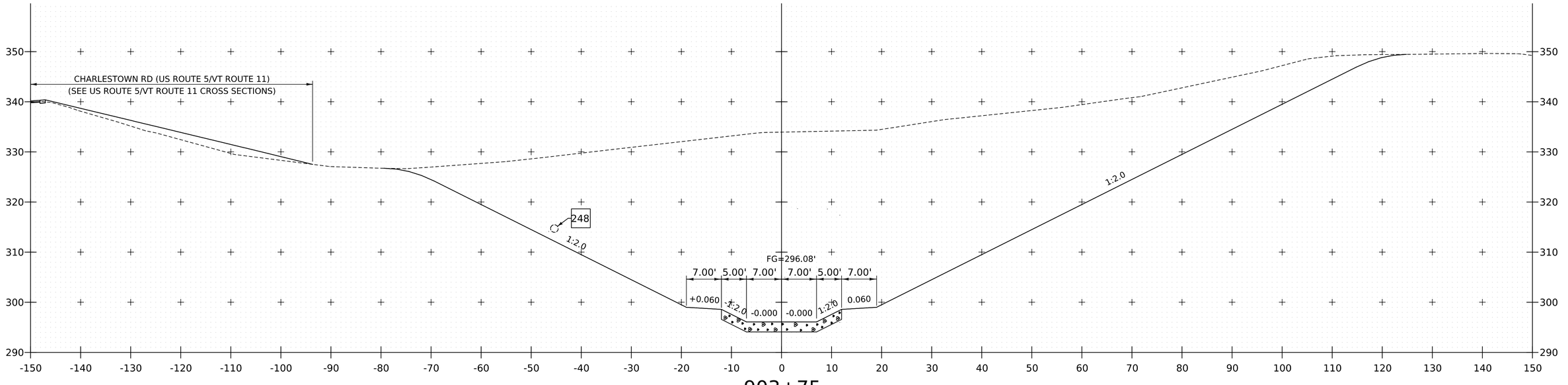

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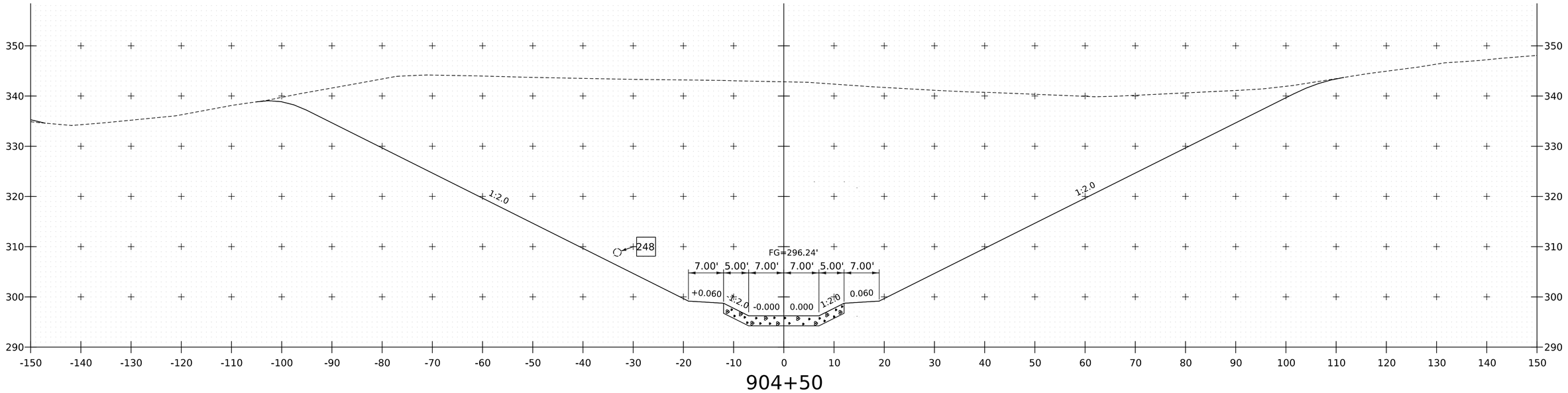
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 8		SHEET	674 OF 922

HNTB



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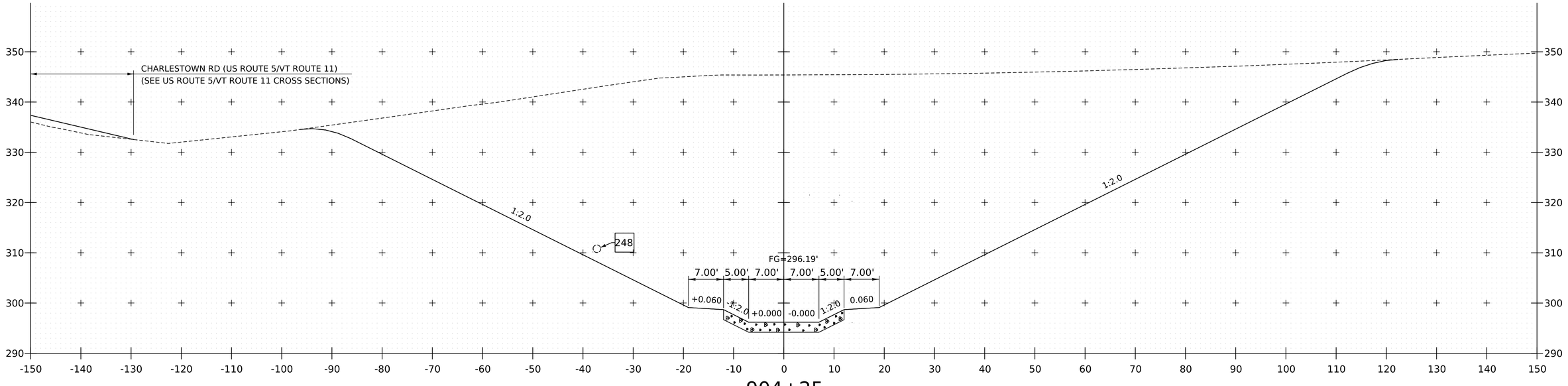

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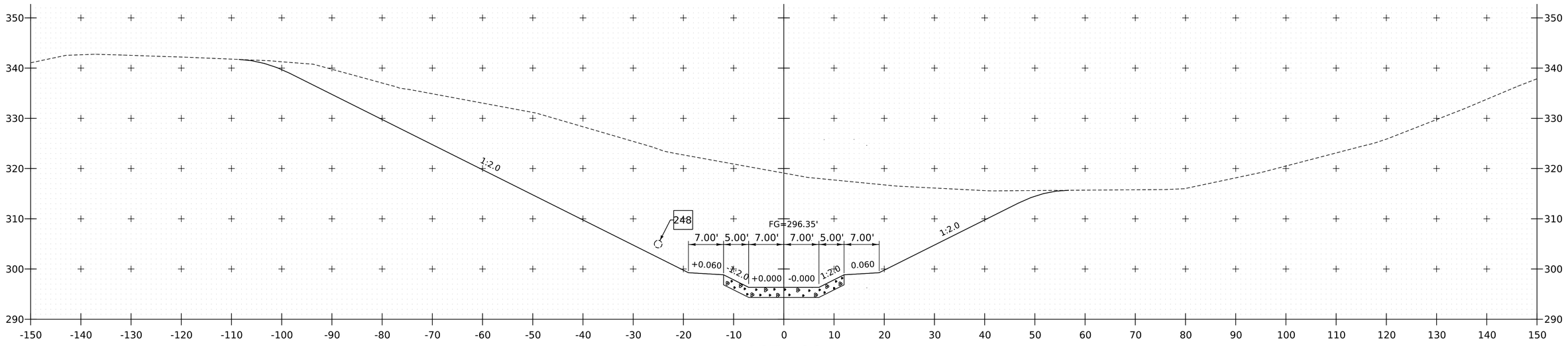
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 9	SHEET 675 OF 922

HNTB



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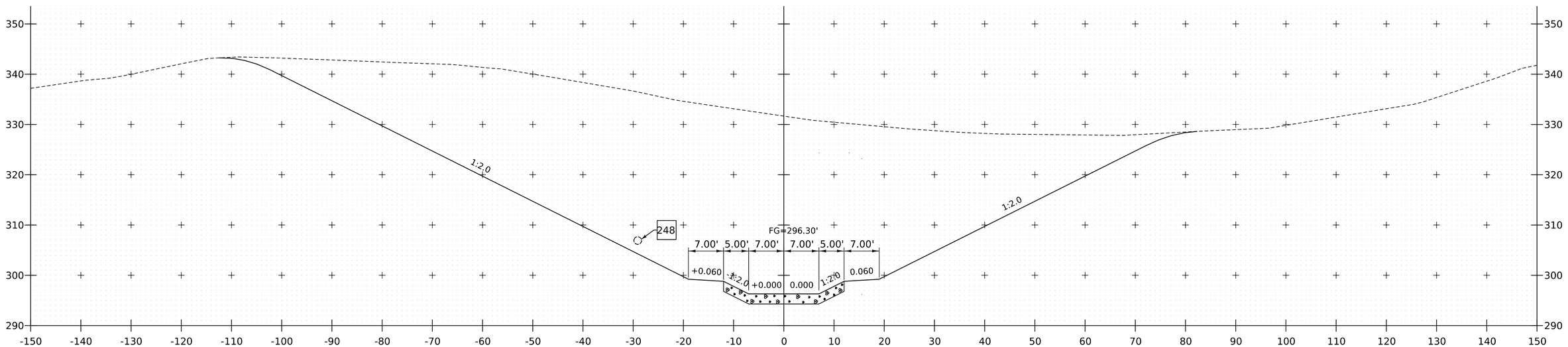

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PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 10		SHEET 676	OF 922

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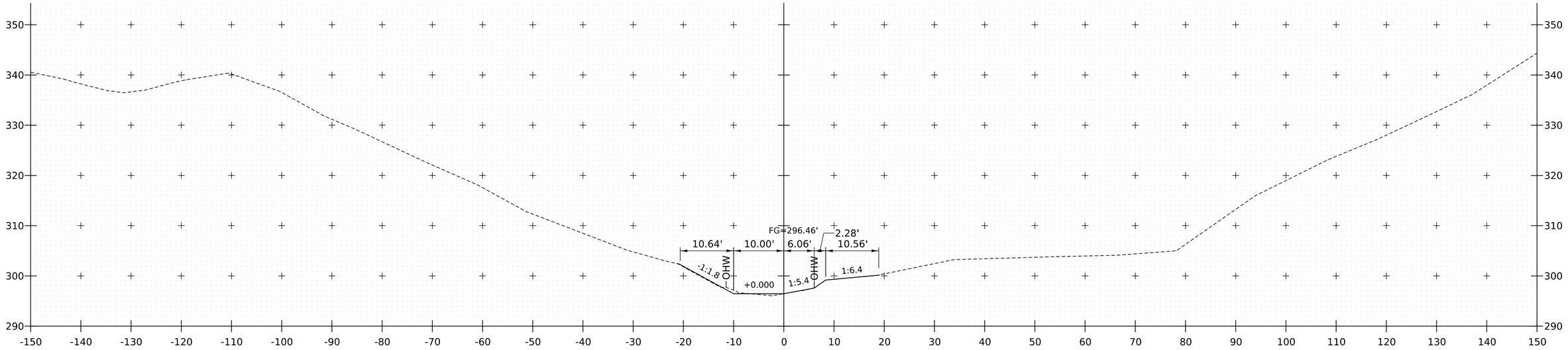
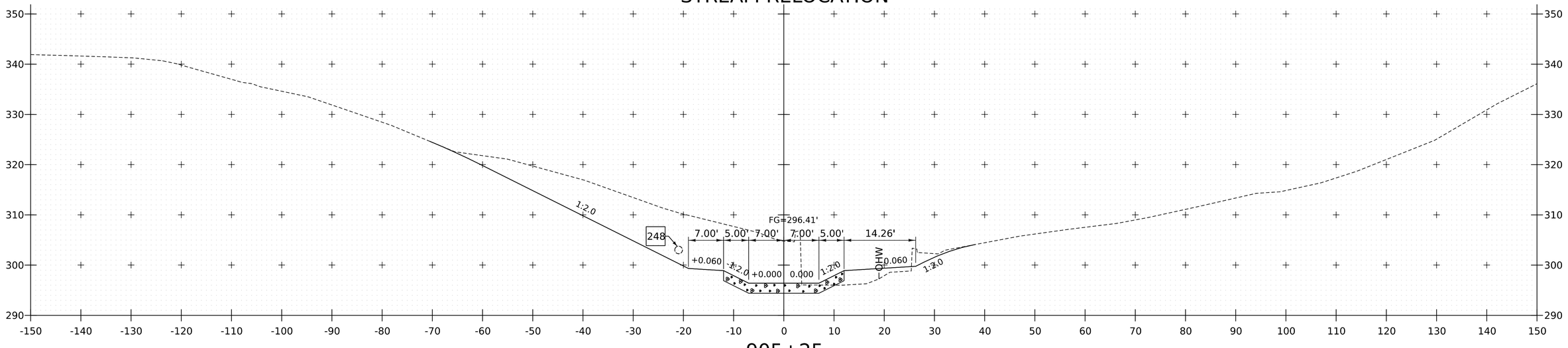


905+50

END SPENCER BROOK

STREAM RELOCATION



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PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 11		SHEET	677 OF 922

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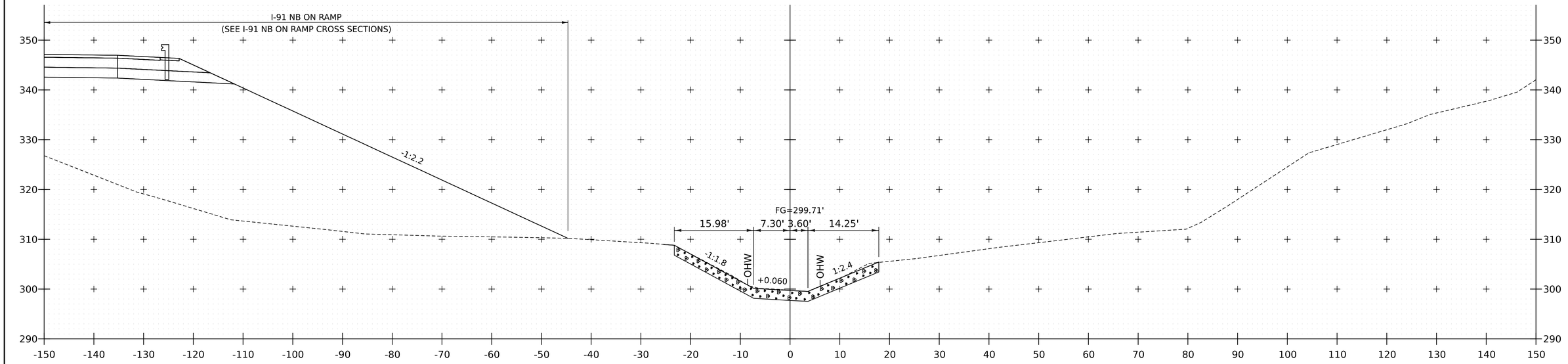

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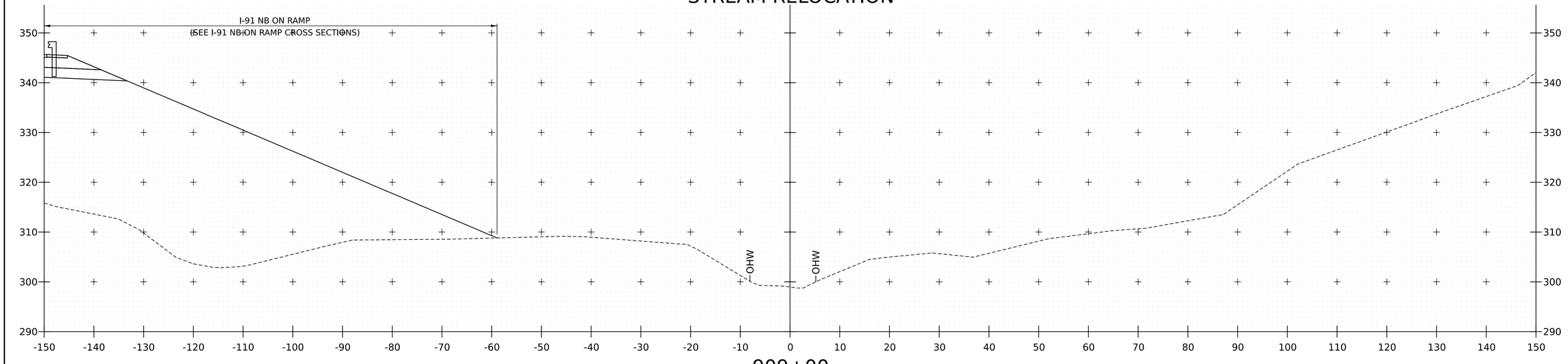
BEGIN SPENCER BROOK

STREAM RELOCATION



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PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 12		SHEET	678 OF 922

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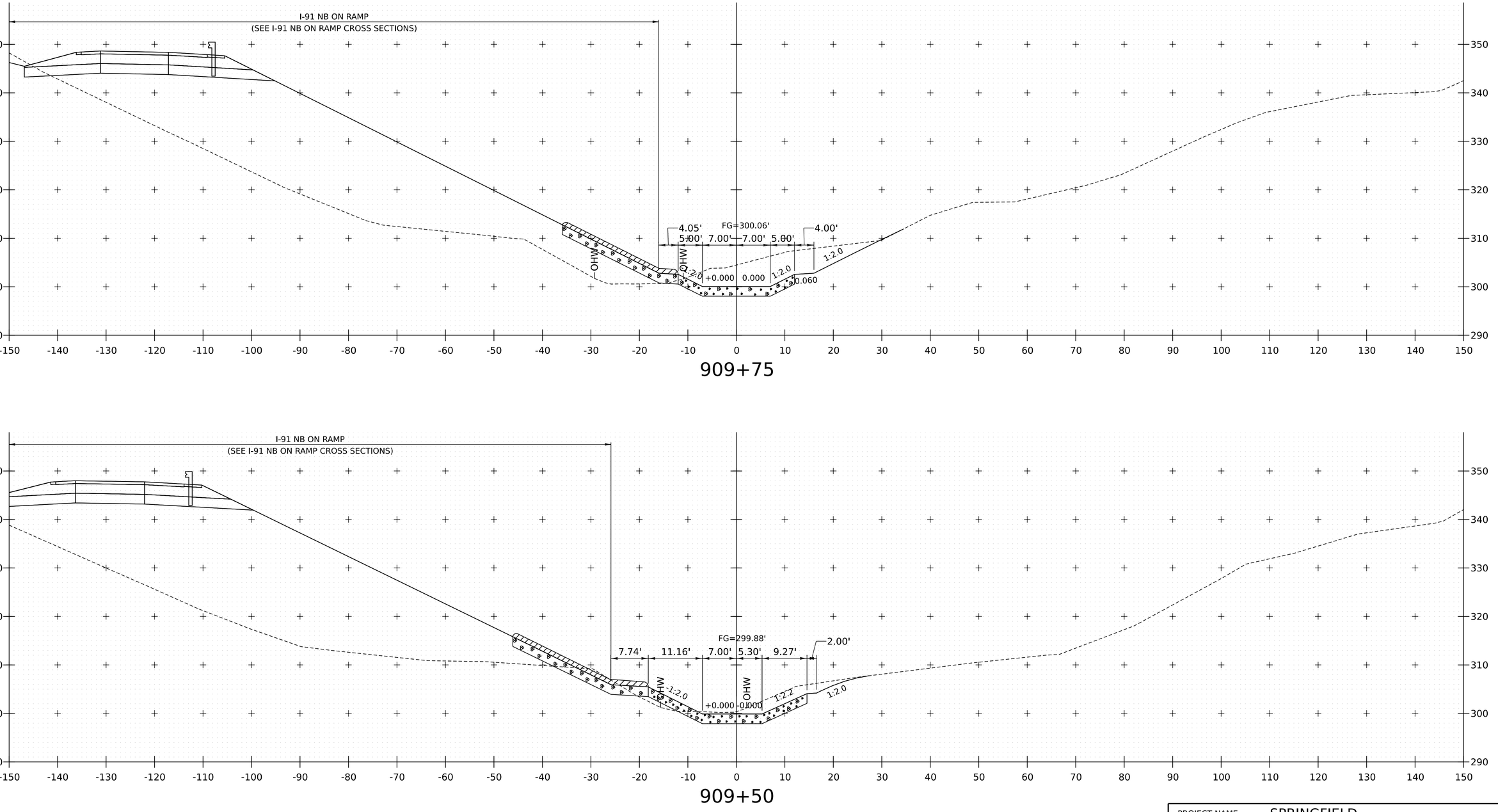

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PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 13		SHEET	679 OF 922

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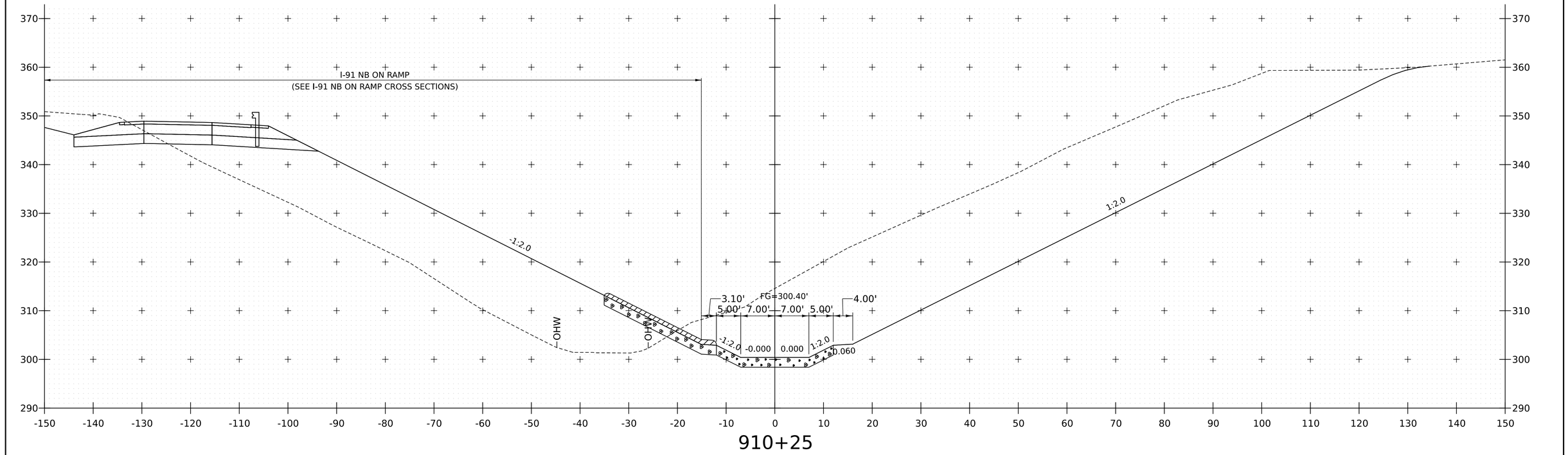
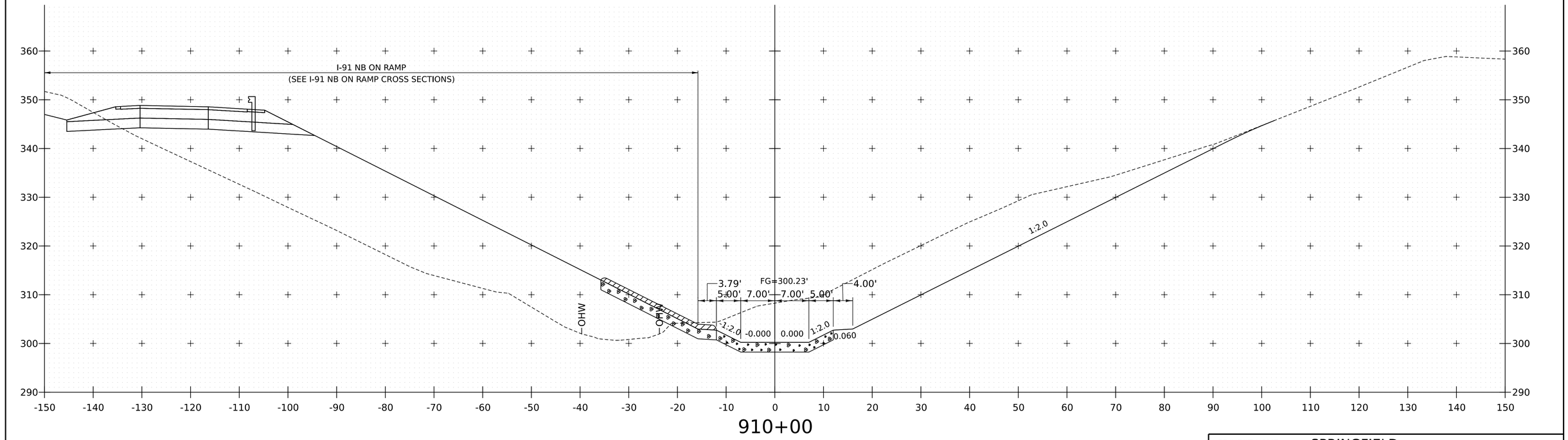
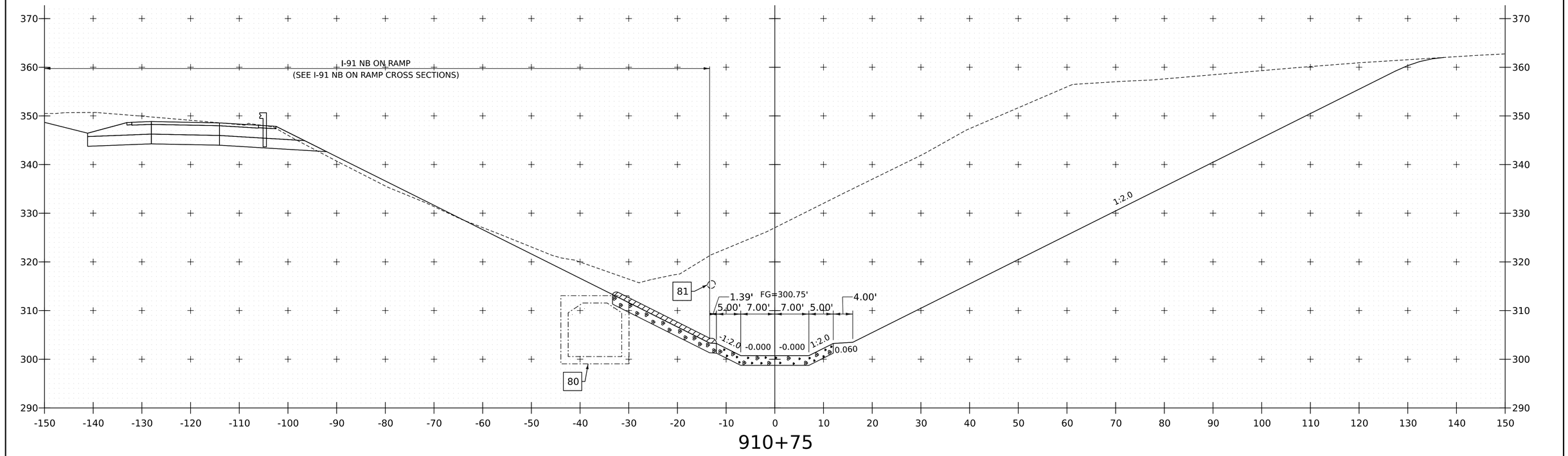




PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 14		SHEET	680 OF 922

HNTB



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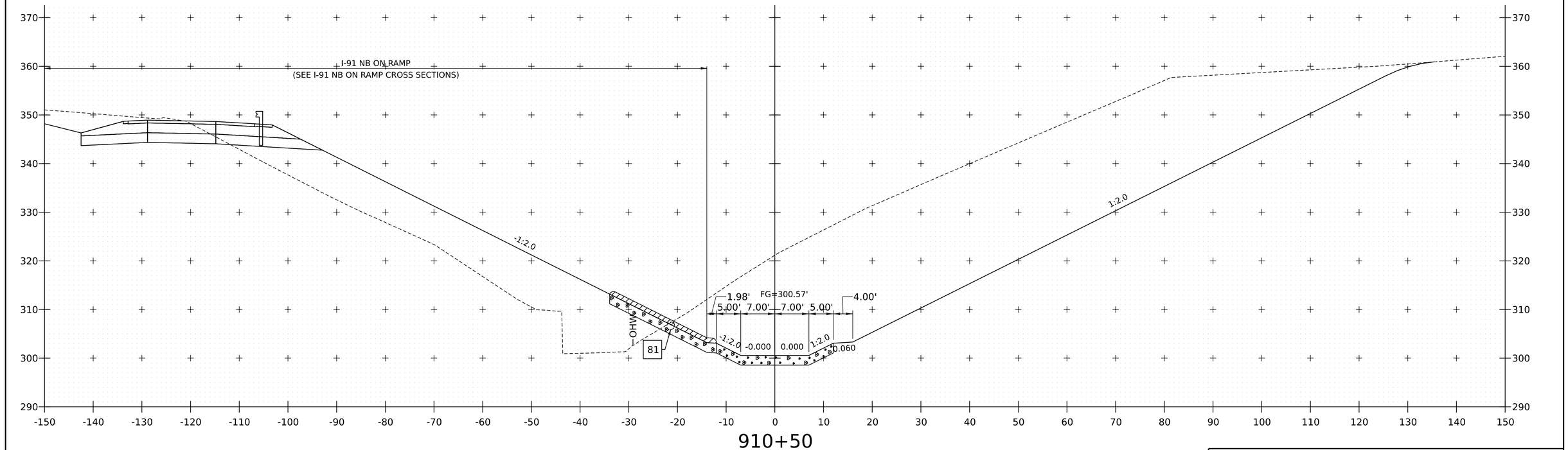

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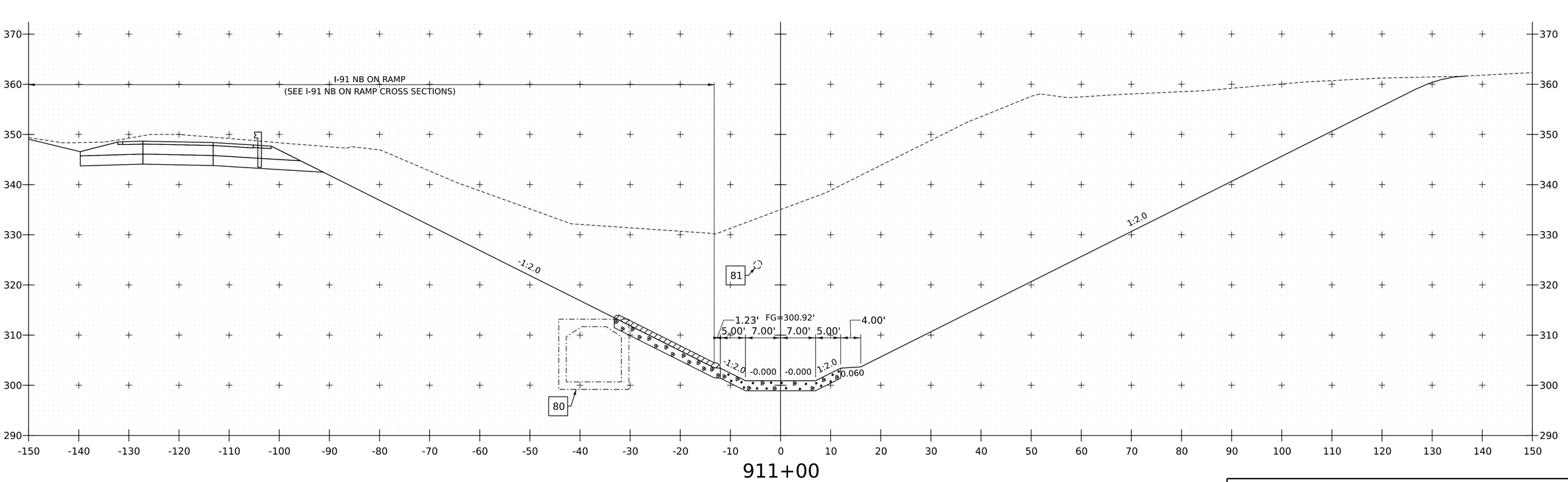
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

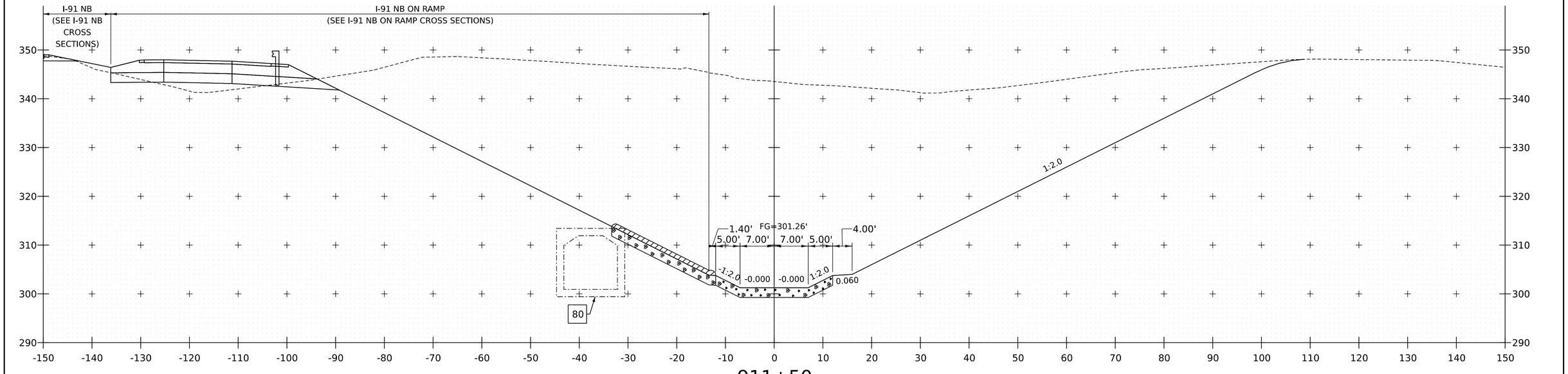
FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 15		SHEET	681 OF 922



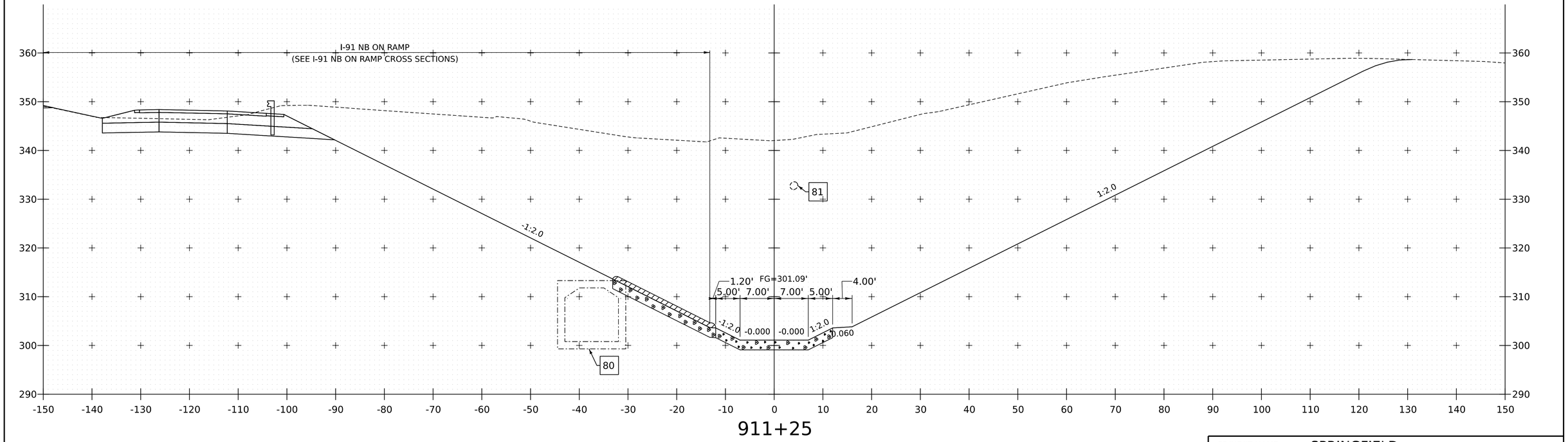
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 16		SHEET 682	OF 922

HNTB



911+50



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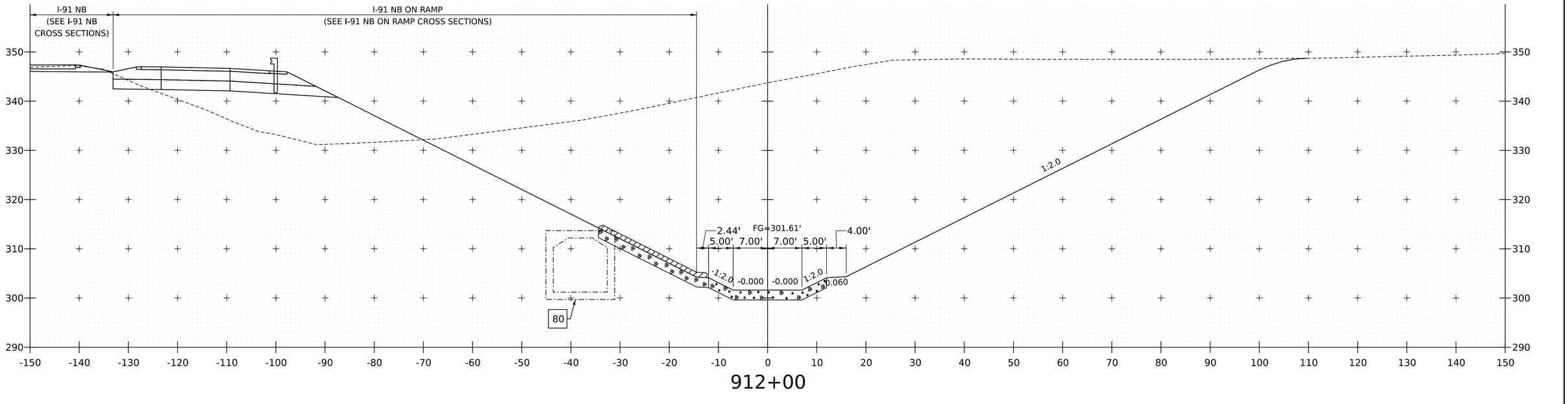
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 17		SHEET	683 OF 922

HNTB



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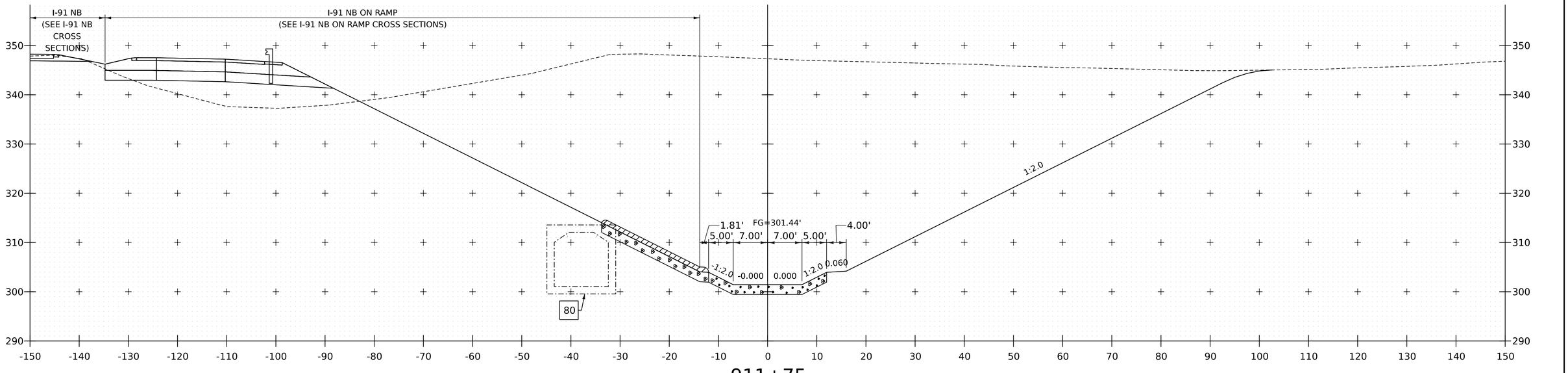

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PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574xs_Spencer_Brook.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 18	SHEET 684 OF 922

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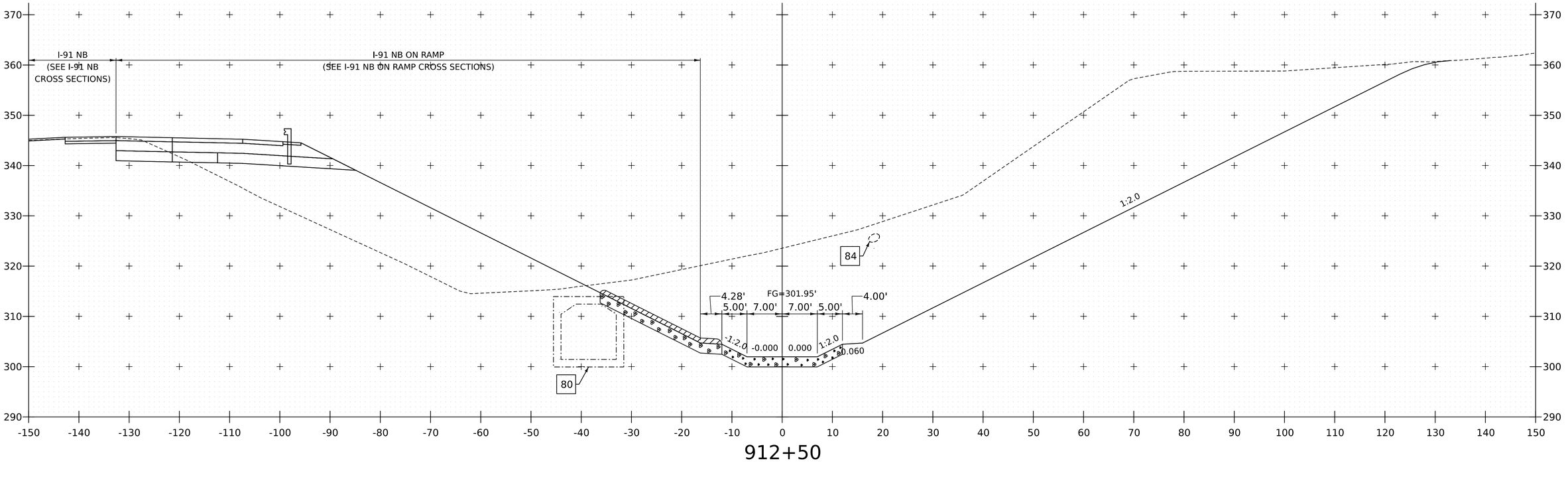

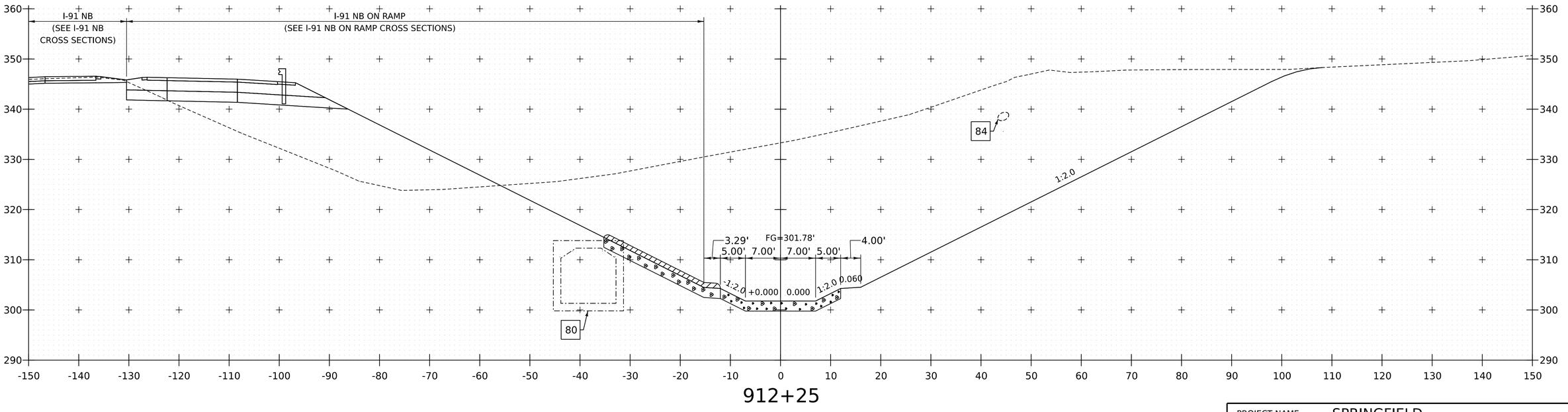

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SPENCER BROOK CHANNEL SECTIONS 19	SHEET 685 OF 922

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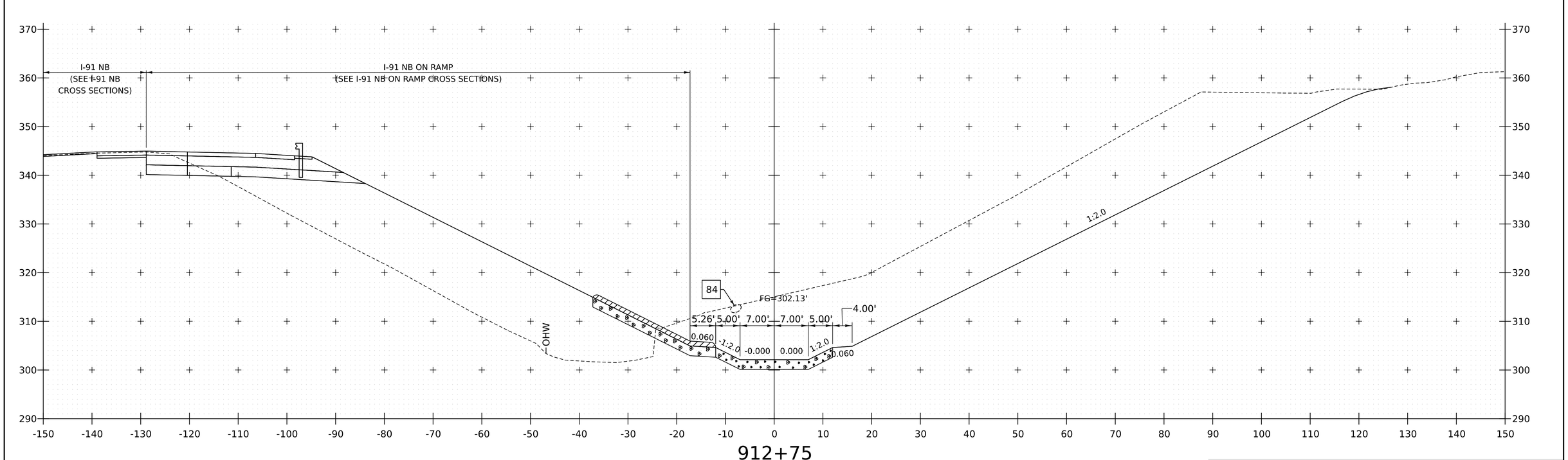

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DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 20		SHEET	686 OF 922

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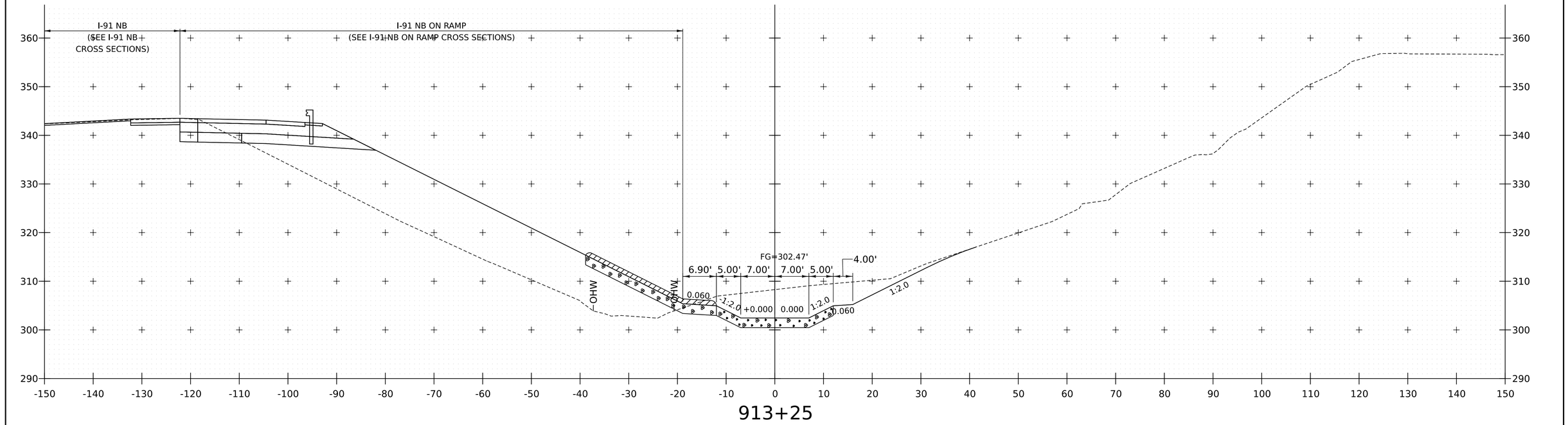

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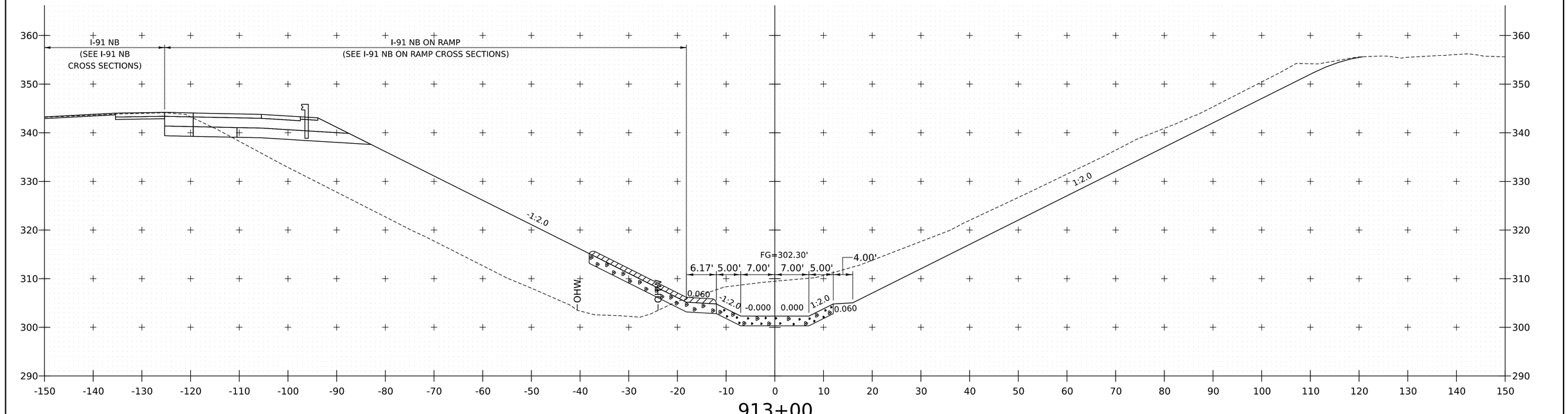

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DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 21		SHEET	687 OF 922

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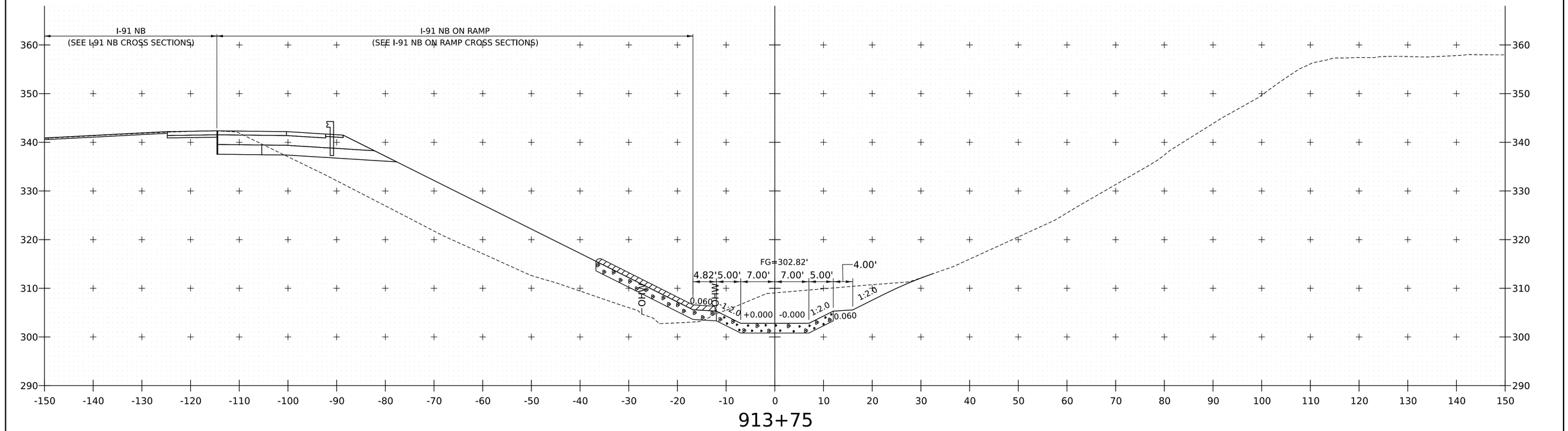

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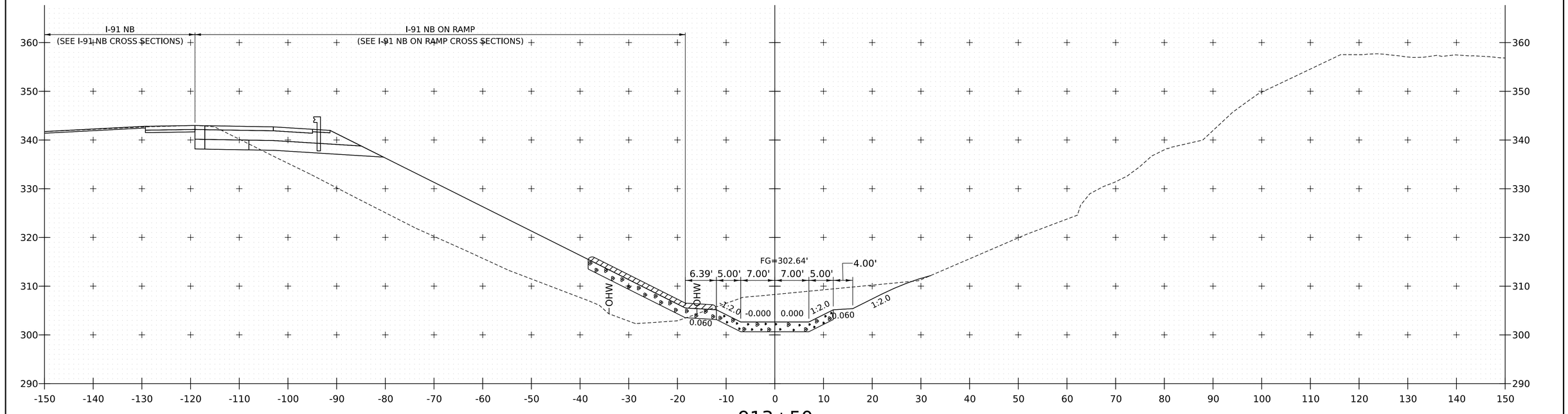

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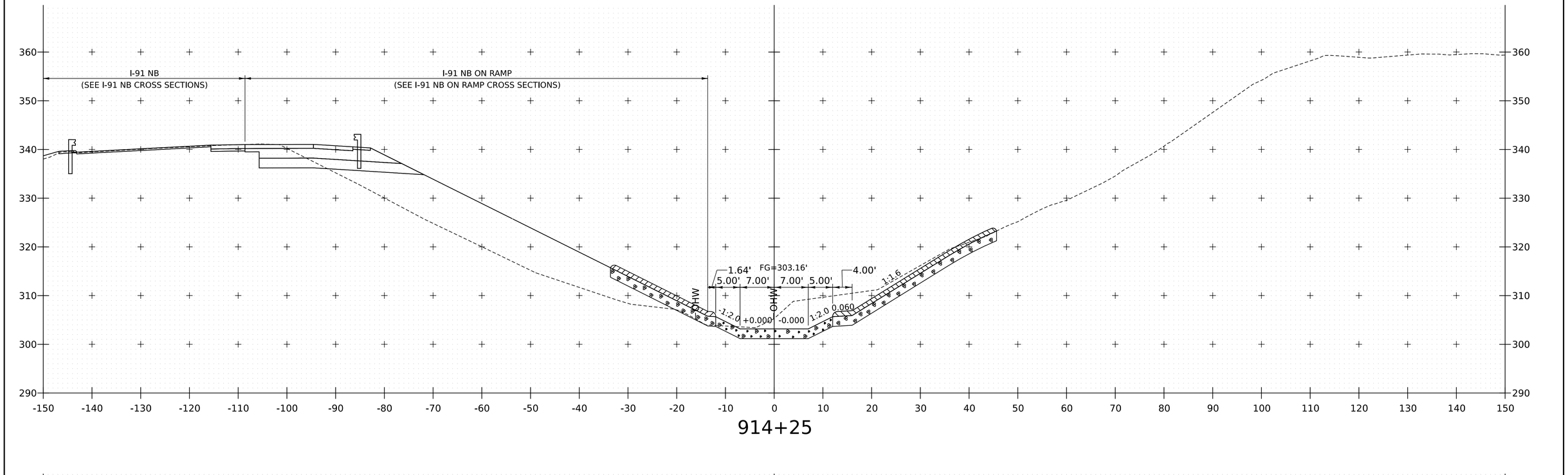
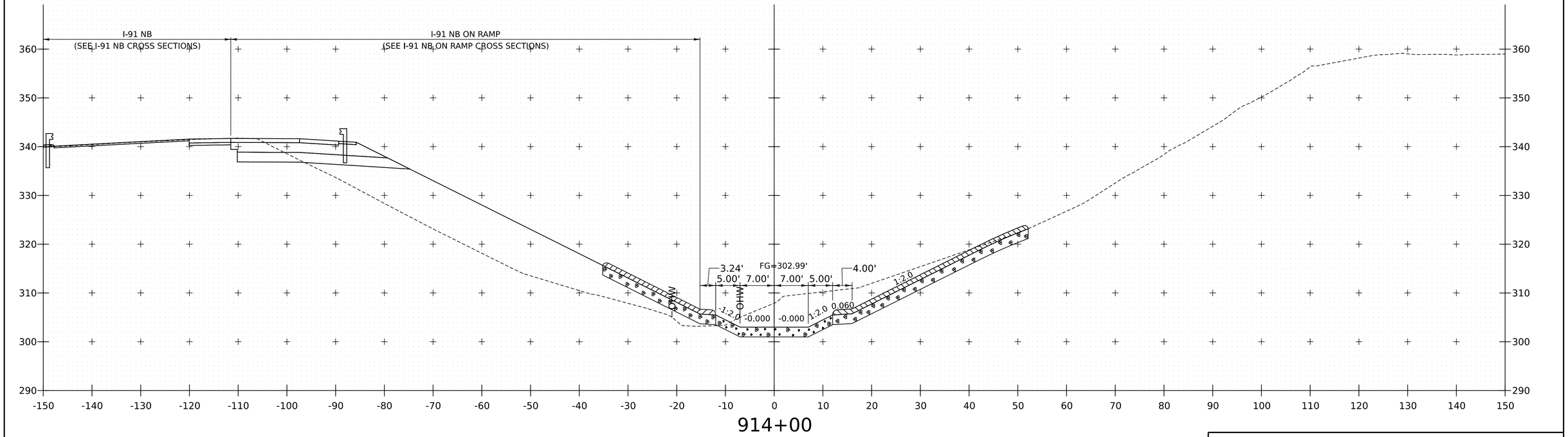
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574xs_Spencer_Brook.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
SPENCER BROOK CHANNEL SECTIONS 22

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 688 OF 922





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DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 23	SHEET 689 OF 922

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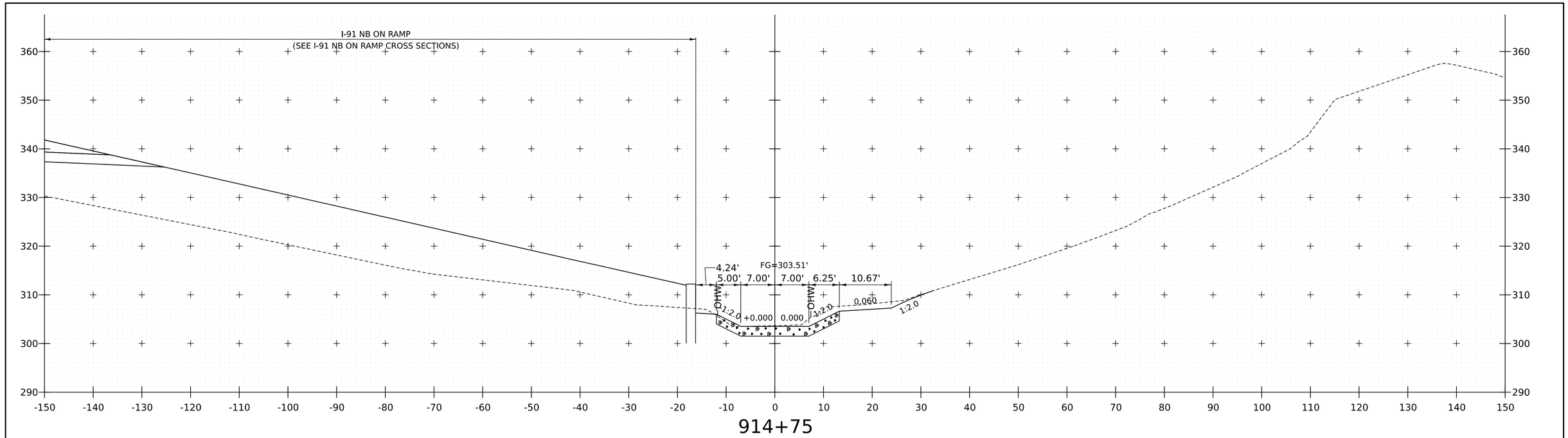

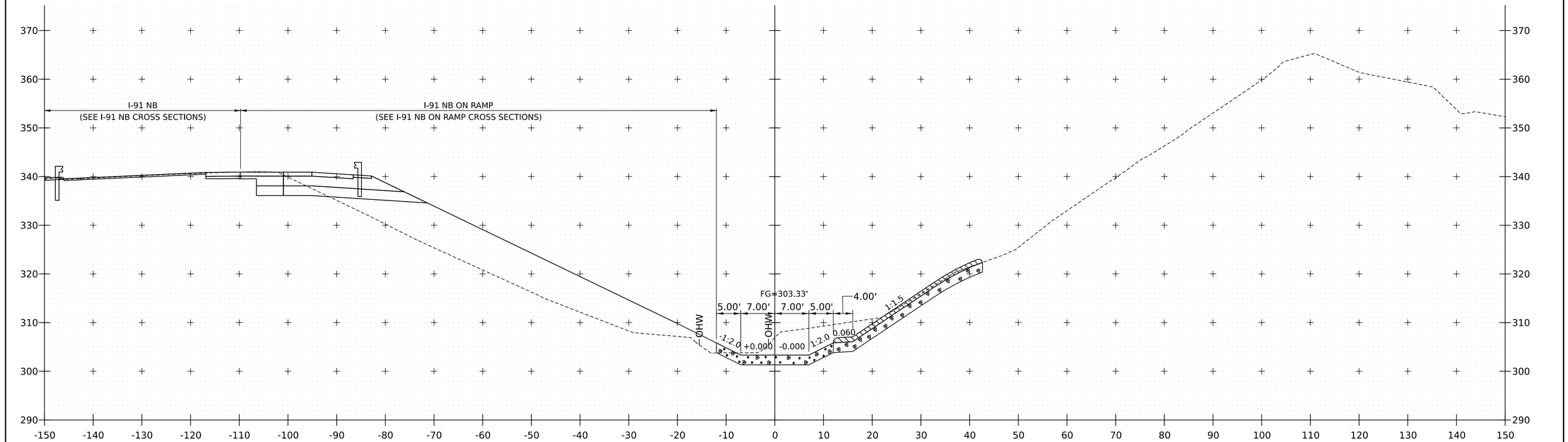

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SPENCER BROOK CHANNEL SECTIONS 24	SHEET 690 OF 922

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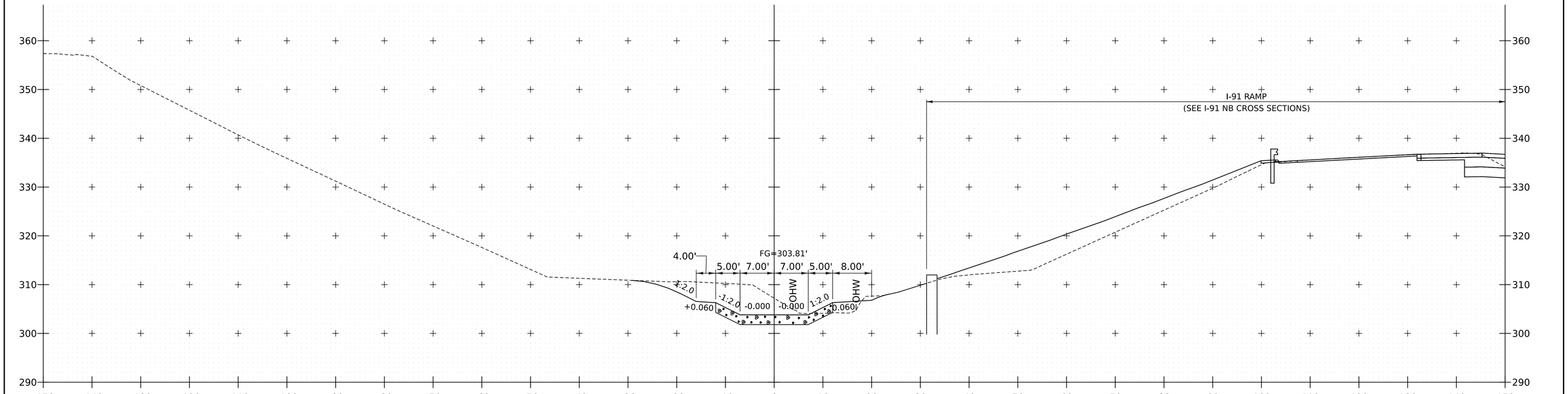

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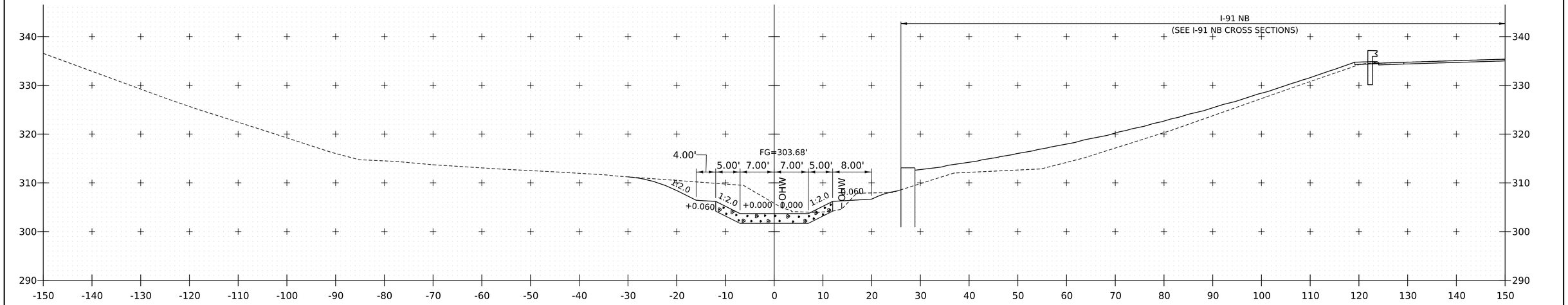

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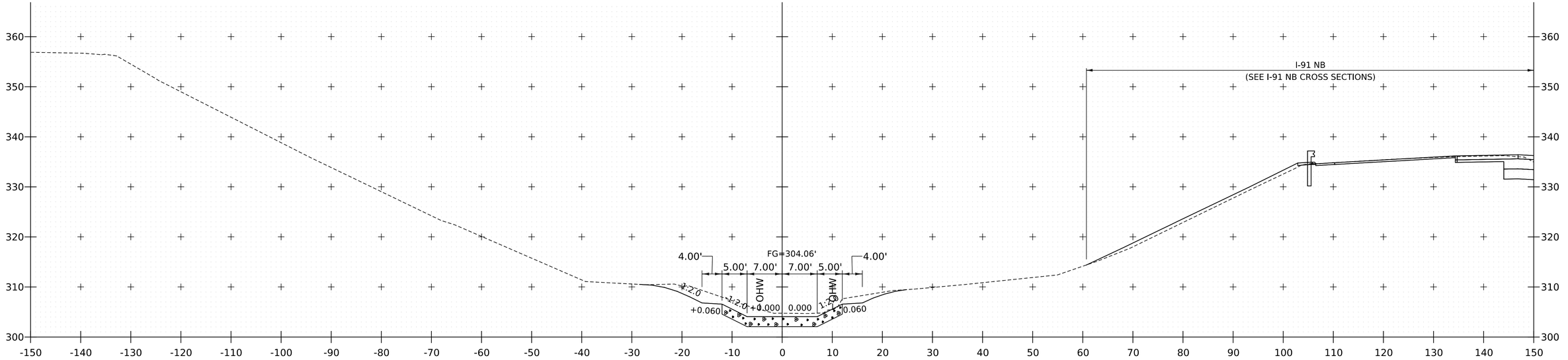
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 25		SHEET	691 OF 922

HNTB



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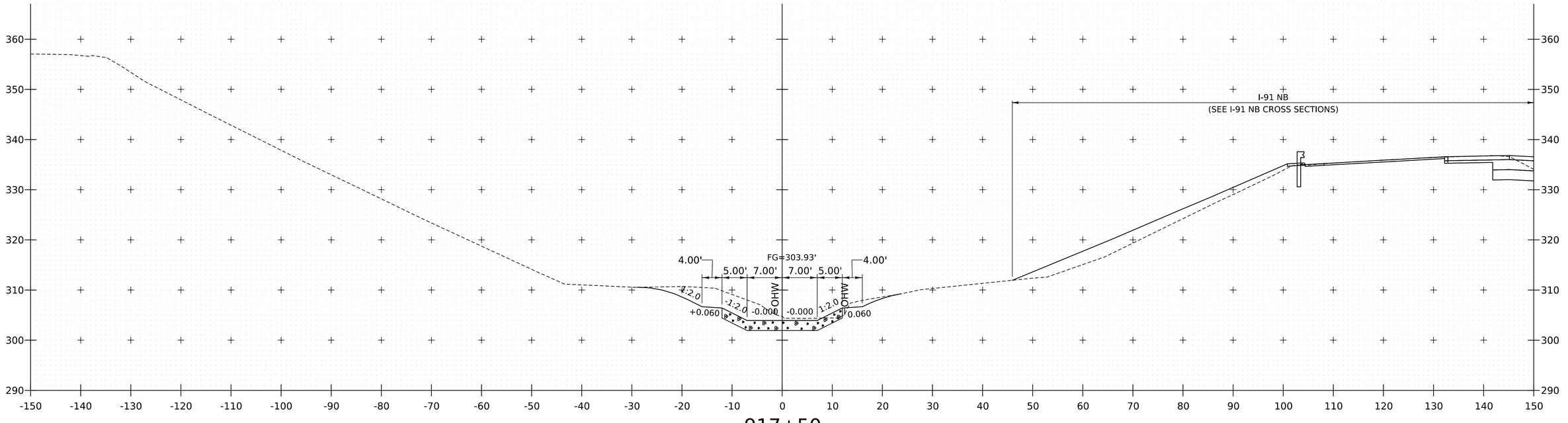

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PROJECT NUMBER: IM 091-1(83)

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PROJECT LEADER: J. OLUND
DESIGNED BY: C. HELMICK
SPENCER BROOK CHANNEL SECTIONS 26

PLOT DATE: 12-JUN-2026
DRAWN BY: C. HELMICK
CHECKED BY: L. DRISCOLL
SHEET 692 OF 922

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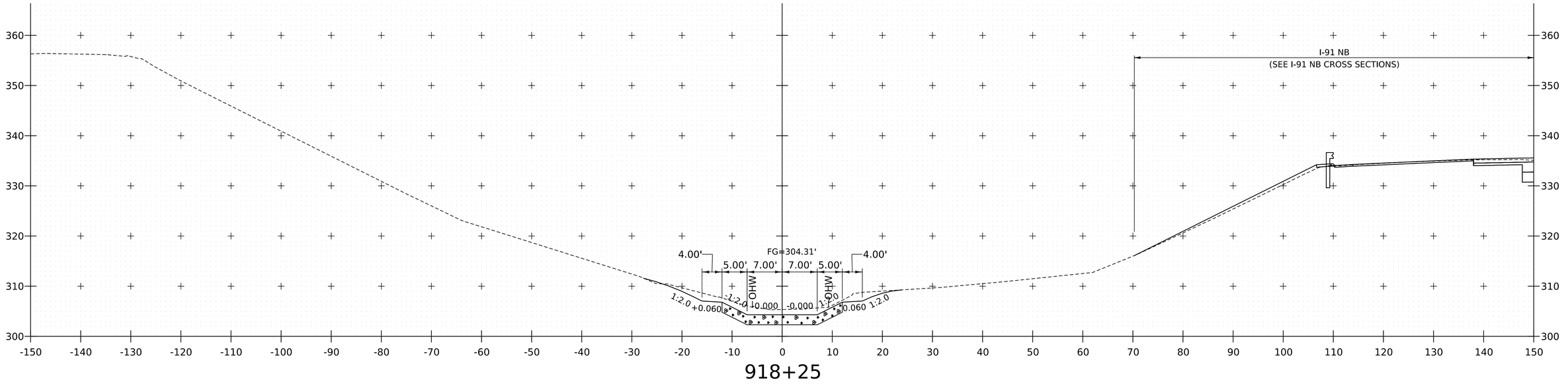

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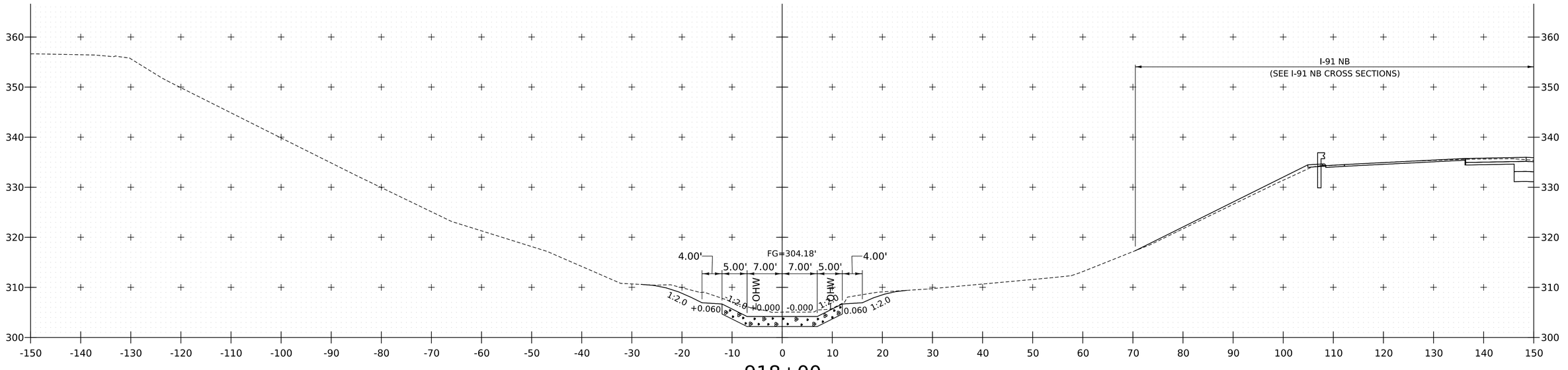

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DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 27		SHEET	693 OF 922

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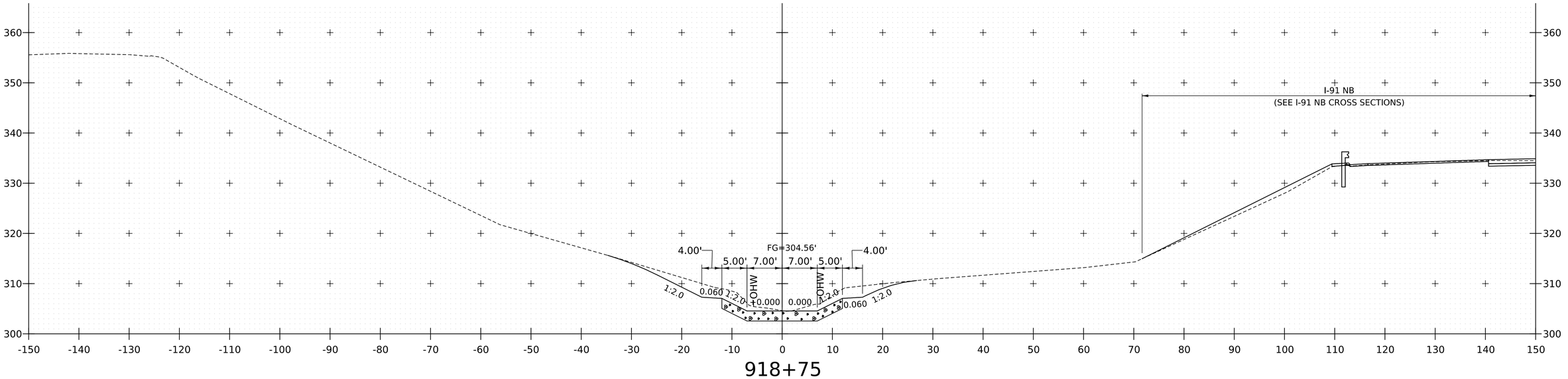

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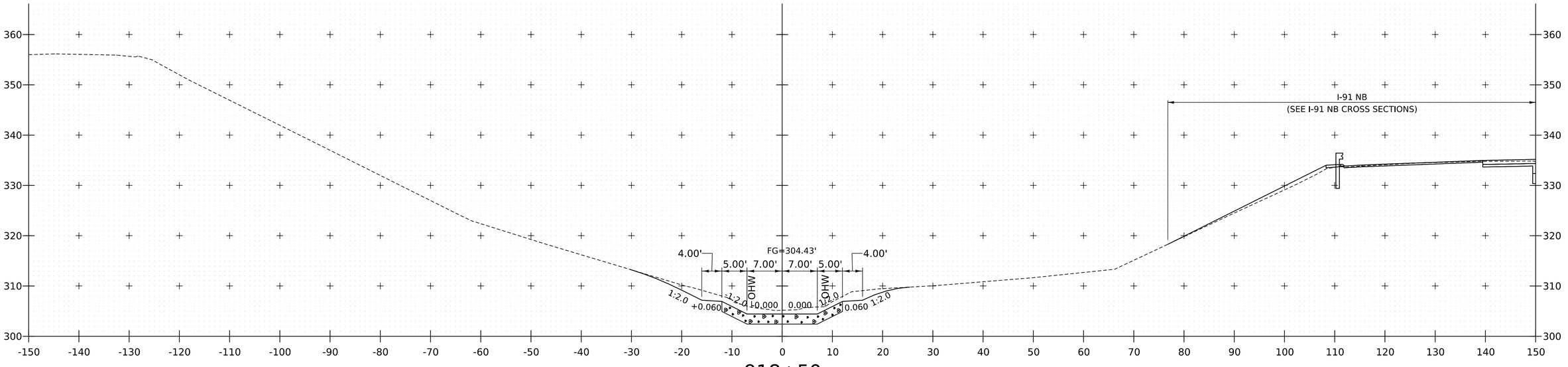

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SPENCER BROOK CHANNEL SECTIONS 28		SHEET	694 OF 922

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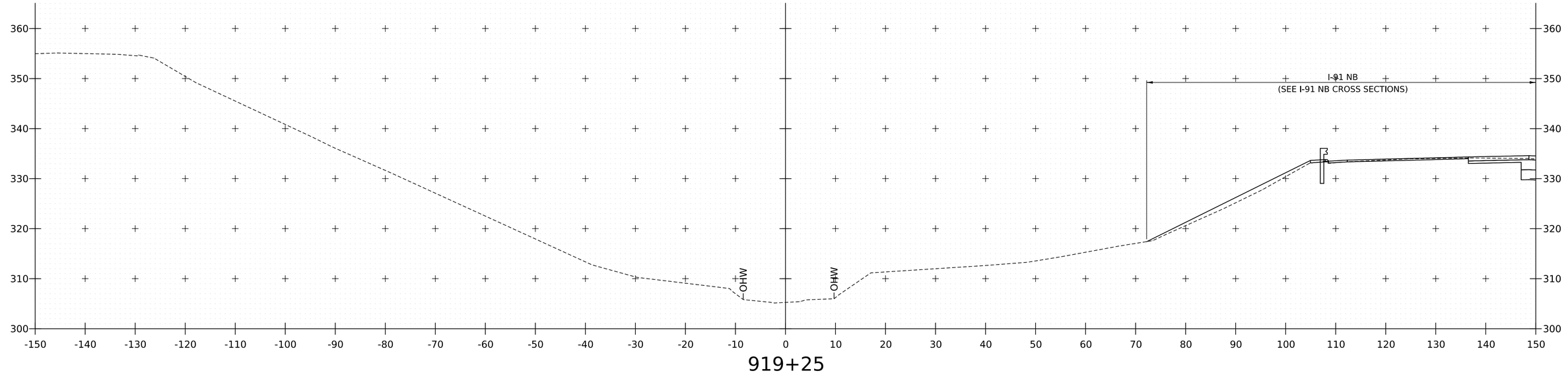

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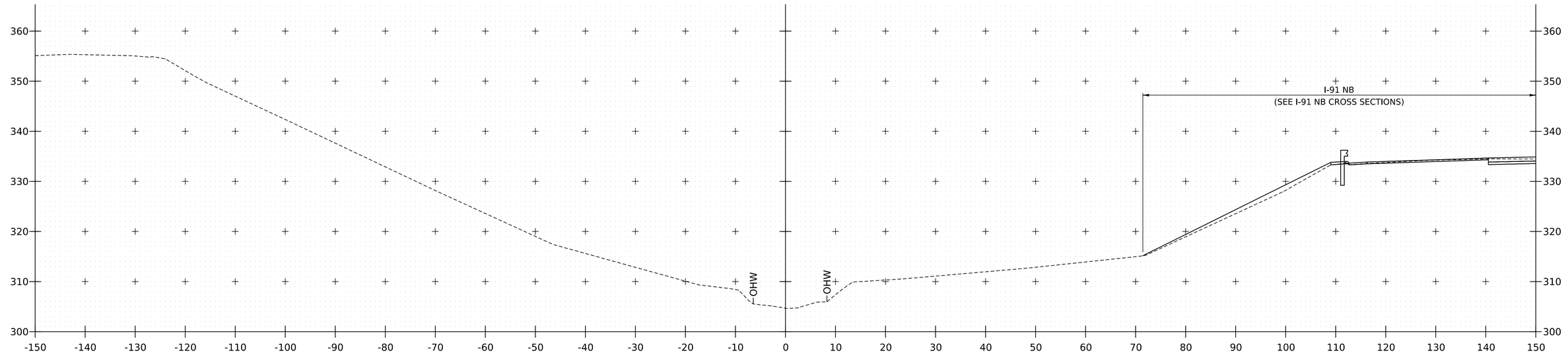


919+00

END SPENCER BROOK
STREAM RELOCATION

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574xs_Spencer_Brook.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
SPENCER BROOK CHANNEL SECTIONS 29		SHEET	695 OF 922

EPSC PLAN NARRATIVE

1. PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF BRIDGE NOS. 25 N&S DECKS, THE REPLACEMENT OF BRIDGE NOS. 26 N&S SUPERSTRUCTURES, THE DISINVESTMENT OF BRIDGES NOS. 27 N&S, THE REPLACEMENT OF BRIDGE NOS. 28 N&S, THE EXTENSION OF CULVERT 28-IN, AND DISINVESTMENT OF CULVERT 28-IG AND 28-IC. ALSO INCLUDED WILL BE RELATED ROADWAY APPROACH WORK, PAVEMENT MAINTENANCE, CLOSED DRAINAGE INSTALLATION, BLACK RIVER CHANNEL WORK, THE RELOCATION OF SPENCER BROOK BY THE I-91 NB OFF RAMP, RELOCATION OF A SHARED USE PATH ALONG US ROUTE 5, AND LANDSCAPE REVEGETATION.

IT IS ANTICIPATED THAT CONSTRUCTION WILL LAST 3 CONSTRUCTION SEASONS.

2. AMOUNT OF DISTURBANCE AND RISK EVALUATION

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 44.69 ACRES. THE MAXIMUM CONCURRENT EARTH DISTURBANCE USED TO SCORE THIS PROJECT IN APPENDIX A RISK ASSESSMENT IS 12 ACRES.

THIS PROJECT REQUIRES AN INDIVIDUAL PERMIT FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES.

ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

3. MAJOR COMPONENTS AND SEQUENCING

THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO EROSION AT ANY GIVEN TIME.

THE MAJOR COMPONENTS OF THE PROJECT AND A PROPOSED GENERAL SEQUENCE IS AS FOLLOWS:

CONSTRUCTION OF THE PROJECT WILL BE BROKEN INTO FOUR MAIN PHASES THAT CONSIST OF BUILDING CROSSOVERS AND TEMPORARY RAMPS FOR MAINTENANCE OF TRAFFIC, BUILDING THE NEW BRIDGES, BUILDING THE NEW ROADWAY APPROACHES, DEMOLISHING THE EXISTING BRIDGES AND THEN FINAL SITE GRADING AND CLEANUP TASKS.

PHASE 0
- ESTABLISH PERIMETER CONTROLS AND MARK PROJECT BOUNDARIES
- INSTALL SEDIMENT CONTROL MEASURES
- CLEARING (GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED)
- CONSTRUCT I-91 PHASE 1A CROSSOVER-S/I-91 PHASE 1B CROSSOVER-S & I-91 PHASE 1A CROSSOVER-N/I-91 PHASE 1B CROSSOVER-N/I-91 PHASE 2B CROSSOVER-S/I-91 PHASE 3B CROSSOVER-S)

PHASE 1A
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- COMPLETE BRIDGE REHABILITATION OF BRIDGE 25N
- EXTEND LARGE CULVERT (CULVERT 28-IN)
- BEGIN CONSTRUCT NB ACCEL/DECEL LANE EMBANKMENTS
- BEGIN CONSTRUCT I-91 NB AND SB DIAMOND RAMPS
- RECONSTRUCT ENTRANCE TO I-91 SB ON RAMP

PHASE 1B
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- COMPLETE CONSTRUCTION OF NB ACCEL/DECEL LANES
- COMPLETE CONSTRUCTION OF I-91 NB AND SB DIAMOND
- CLOSE THE EXISTING I-91 NB LOOP RAMPS AND OPEN THE NEWLY CONSTRUCTED RAMPS TO TRAFFIC

PHASE 2A
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- REMOVE I-91 PHASE 1A CROSSOVER-S/I-91 PHASE 1B CROSSOVER-S
- CONSTRUCT I-91 PHASE 2B CROSSOVER-N AND TEMPORARY I-91 NB OFF RAMP
- REMOVE EXISTING NORTHBOUND RAMPS
- REMOVE/ABANDON EXISTING SPENCER BROOK CULVERTS UNDER EXISTING RAMPS (CULVERT 28-1C & CULVERT 28-1G)

PHASE 2B
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- COMPLETE SUPERSTRUCTURE REPLACEMENT AT BRIDGE 26N
- COMPLETE REMOVAL OF BRIDGE 27 N
- REPLACE BRIDGE 28N

PHASE 3A
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- REMOVE I-91 PHASE 2B CROSSOVER-N
- CONSTRUCT I-91 PHASE 3B CROSSOVER-N AND TEMPORARY I-91 SB ON RAMP

PHASE 3B
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- COMPLETE SUPERSTRUCTURE REPLACEMENT AT BRIDGE 26S
- COMPLETE REMOVAL OF BRIDGE 27S
- REPLACE BRIDGE 28S
- CONSTRUCT 1-91 SB OFF RAMP AND I-91 SB OFF RAMP ACCEL LANE

PHASE 4A
- INSTALL OR ADJUST SEDIMENT CONTROL MEASURES
- GRUB ONLY AREAS ACTIVELY BEING CONSTRUCTED
- REMOVE ALL REMAING CROSSOVERS AND GRADE MEDIAN TO FINISH GRADE
- COMPLETE FULL DEPTH CONSTRUCTION OF CHARLESTOWN RD AND SHARED USE PATH

PHASE 4B
- COMPLETE FINAL PAVING AND STRIPING
- REMOVE ALL PERIMETER CONTROLS, PROJECT BOUNDARIES AND REMAINING SEDIMENT CONTROL MEASURES

4. SITE DESCRIPTION
4.1 VEGETATED BUFFERS

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS, OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE IMPLEMENTED WHEREVER POSSIBLE.

THIS PROJECT DOES NOT RELY ON VEGETATED BUFFERS AS A MITIGATING RISK FACTOR.

4.2 STREAM CROSSINGS

THIS PROJECT INCLUDES 2 STREAM CROSSINGS, AS DESCRIBED IN SECTION 5.1 BELOW. WORK WITHIN THE WATER IS BEING CONSULTED THROUGH THE VANR DEC RIVER MANAGEMENT PROGRAM AND AUTHORIZED THROUGH THE US ARMY CORPS OF ENGINEERS.

4.3 WETLANDS

THE PROJECT INVOLVE 47,855 SF OF WETLAND AND 225,590 SF OF WETLAND BUFFER. THIS WORK WITHIN THESE AREAS IS BEING AUTHORIZED THROUGH THE VANR WETLANDS OFFICE AND/OR THE US ARMY CORPS OF ENGINEERS.

RESEEDING WITH A WETLAND SEED MIX IS REQUIRED IN DISTRUBED AREAS OF CLASS II and III WETLANDS AND WETLAND BUFFERS.

4.4 TOPOGRAPHY

THE TOPOGRAPHY OF THE PROJECT AREA IS GENERALLY ROLLING HILLS AND INCLUDES WORK ON THE ROADWAY SIDE SLOPES, MANY OF WHICH ARE 1:2. THE PROJECT IS LOCATED NEAR A COMMERCIAL AREA THAT INCLUDES: PAVED PARKING LOTS, DRIVEWAYS, SEVERAL BUSINESSES, A CORRECTIONAL FACILITY, AND A PARK & RIDE. TO THE EAST OF THE PROJECT AREA THERE IS A STATE FISH AND WILDLIFE MANAGEMENT AREA. THE PROJECT AREA INCLUDES THE BLACK RIVER AND SPENCER BROOK THAT DRAIN INTO THE CONNECTICUT RIVER.

4.5 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF TREES, SHRUBS, GRASSES. THE IMPACT TO VEGETATION WILL BE LIMITED TO WHAT IS DIRECTLY AFFECTED BY THE PROJECT. UPON COMPLETION, THE DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES AS DESCRIBED IN THE TURF ESTABLISHMENT DETAIL, AND AS SHOWN ON THE LANDSCAPE PLANS, UNLESS NOTED OTHERWISE.

4.6 SOILS

SOIL EROSION DATA FROM THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE INDICATES THAT SOILS ON THE PROJECT SITE INCLUDE:

DUMMERSTON-MACOMBER COMPLEX, 15% TO 25%, “K FACTOR” = UNDETERMINED
GLOVER-VERSHIRE, 35% TO 60% SLOPES, “K FACTOR” = UNDETERMINED
HITCHCOCK, SILT LOAM, 25% TO 50% SLOPES, “K FACTOR” = 0.49
LIMERICK, SILT LOAM, 0% TO 2% SLOPES, “K FACTOR” = 0.43
MACOMBER-TACONIC COMPLEX, 25% TO 70% SLOPES, “K FACTOR” = UNDETERMINED
NINIGRET, FINE SANDY LOAM, 0% TO 8% SLOPES, “K FACTOR” = 0.32
PODUNK, FINE SANDY LOAM, 0% TO 3% SLOPES, “K FACTOR” = 0.24
UDORTHENTS AND UDIPSAMMENTS, 0% TO 8% SLOPES, “K FACTOR” = 0.10
WINSDOR, LOAMY SAND, 0% TO 8% SLOPES, “K FACTOR” = UNDETERMINED
WINSDOR, LOAMY SAND, 8% TO 15% SLOPES, “K FACTOR” = UNDETERMINED
WINSDOR LOAMY SAND, 25% TO 60 % SLOPES, “K FACTOR” = UNDETERMINED

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:
0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

4.7 OTHER SENSITIVE RESOURCES

THERE ARE ARCHEOLOGICALLY SENSITIVE AREAS LOCATED AT SEVERAL POINTS AROUND THE PROJECT AND SHOWN ON THESE PLANS SHALL BE PROTECTED WITH ORANGE BARRIER FENCE WHERE POSSIBLE. THERE ARE SOME LOCATIONS ALONG I-91 NORTHBOUND THAT WILL BE IMPACTED DUE TO ENSURING SLOPE STABILITY.

5. DRAINAGE
5.1 RECEIVING WATERS

THE PROJECT AREA LIES WITHIN THE SPENCER BROOK, BLACK RIVER, AND CONNECTICUT RIVER WATERSHEDS. THE SOUTHERN PORTION OF WORK ALONG I-91, NEAR BRIDGES 25 AND 26, IS LOCATED WITHIN THE CONNECTICUT RIVER WATERSHED. CLOSED DRAINAGE SYSTEMS ALONG CHARLESTOWN ROAD AND I-91 NORTH OF BRIDGE 28 GENERALLY DISCHARGE TO ADJACENT WETLANDS OR DIRECTLY TO SPENCER BROOK. THE WESTERN LIMITS OF WORK ALONG CHARLESTOWN ROAD AND I-91, BETWEEN BRIDGE 28 AND APPROXIMATELY 900 FEET SOUTH OF BRIDGE 26, PRIMARILY DRAIN TOWARD THE BLACK RIVER.

THE SPENCER BROOK STREAMBED CONSISTS MAINLY OF GRAVEL, SAND, AND SILT, WHILE THE BLACK RIVER STREAMBED INCLUDES AREAS OF EXPOSED BEDROCK WITH GRAVEL AND COBBLE DEPOSITS. THE ESTIMATED TRIBUTARY DRAINAGE AREAS AT THE BRIDGE CROSSINGS ARE APPROXIMATELY 7.04 MILES^2 FOR SPENCER BROOK, 204 MILES^2 FOR THE BLACK RIVER, AND 5,260 MILES^2 FOR THE CONNECTICUT RIVER.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: z12a574epsc_narrative		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	P. MCKECHNIE
DESIGNED BY:	P. MCKECHNIE	CHECKED BY:	S. SPEAR
EPSC NARRATIVE 1		SHEET 696 OF 922	

HNTB

5.2 DISCHARGE POINTS

THE PROJECT DRAINAGE SYSTEM CONSISTS PRIMARILY OF CLOSED DRAINAGE NETWORKS THAT COLLECT RUNOFF FROM ROADWAY AND ADJACENT DISTURBED AREAS AND CONVEY FLOWS TO RECEIVING WATERS THROUGH THE DISCHARGE POINTS IDENTIFIED BELOW. EARTH-DISTURBING ACTIVITIES OCCUR WITHIN THE TRIBUTARY DRAINAGE AREAS TO THESE SYSTEMS AND ARE GENERALLY LOCATED IMMEDIATELY ADJACENT TO, OR IN CLOSE PROXIMITY TO, THE ASSOCIATED CATCH BASINS AND DRAINAGE INLETS. RUNOFF FROM DISTURBED AREAS IS COLLECTED BY THESE DRAINAGE SYSTEMS AND DISCHARGED TO THE RECEIVING WATERS IDENTIFIED BELOW.

CONNECTICUT RIVER
S/N 001 - STA. 22145+69, 63.7' RT (0.18 ACRES OF DISTURBED AREA)
S/N 002 - STA. 22148+77, 65.1' RT (0.37 ACRES OF DISTURBED AREA)
S/N 003 - STA. 22158+50, 151.7' RT (0.87 ACRES OF DISTURBED AREA)
S/N 004 - STA. 22161+08, 77.9' RT (0.65 ACRES OF DISTURBED AREA)
S/N 005 - STA. 22165+38, 126.1' RT (0.39 ACRES OF DISTURBED AREA)
S/N 006 - STA. 22167+94, 103.7' RT (0.12 ACRES OF DISTURBED AREA)
S/N 007 - STA. 22169+37, 89.3' RT (0.39 ACRES OF DISTURBED AREA)
S/N 029 - OVERLAND FLOW

BLACK RIVER
S/N 008 - STA. 12171+88, 68.2' LT (0.00 ACRES OF DISTURBED AREA)
S/N 009 - STA. 22173+37, 55.4' RT (0.39 ACRES OF DISTURBED AREA)
S/N 010 - STA. 22176+88, 40.3' RT (0.41 ACRES OF DISTURBED AREA)
S/N 011 - STA. 22181+50, 37.6' RT (0.47 ACRES OF DISTURBED AREA)
S/N 012 - STA. 22184+90, 49.0' RT (0.40 ACRES OF DISTURBED AREA)
S/N 013 - STA. 12188+89, 55.0' LT (1.29 ACRES OF DISTURBED AREA)
S/N 014 - STA. 401+15, 100.0' LT (1.69 ACRES OF DISTURBED AREA)
S/N 025 - STA. 114+15, 123.5' RT (0.33 ACRES OF DISTURBED AREA)
S/N 026 - STA. 124+77, 101.7' RT (0.38 ACRES OF DISTURBED AREA)
S/N 027 - STA. 127+19, 146.7' RT (0.73 ACRES OF DISTURBED AREA)
S/N 030 - OVERLAND FLOW

SPENCER BROOK
S/N 015 - STA. 302+73, 88.0' RT (7.90 ACRES OF DISTURBED AREA)
S/N 016 - STA. 307+00, 29.0' RT (0.06 ACRES OF DISTURBED AREA)
S/N 017 - STA. 22210+90, 36.7' LT (0.06 ACRES OF DISTURBED AREA)
S/N 018 - STA. 12210+39, 111.4' RT (0.00 ACRES OF DISTURBED AREA)
S/N 019 - STA. 12212+38, 113.3' RT (0.00 ACRES OF DISTURBED AREA)
S/N 020 - STA. 22213+89, 29.0' LT (0.10 ACRES OF DISTURBED AREA)
S/N 021 - STA. 12214+87, 57.9' LT (0.00 ACRES OF DISTURBED AREA)
S/N 022 - STA. 22216+00, 37.0' LT (0.85 ACRES OF DISTURBED AREA)
S/N 023 - STA. 22218+39, 53.4' LT (0.00 ACRES OF DISTURBED AREA)
S/N 024 - STA. 22221+00, 41.3' LT (0.25 ACRES OF DISTURBED AREA)
S/N 028 - STA. 142+95, 105.4' LT (3.43 ACRES OF DISTURBED AREA)
S/N 031 - OVERLAND FLOW

5.3 CONVEYANCE/ FLOW PATH FROM PROJECT TO WATERS

A MAJORITY OF THE PROJECT IS CURBED, AND RUNOFF DRAINS INTO CLOSED DRAINAGE SYSTEMS CONSISTING OF CATCH BASINS, DROP INLETS, AND CONNECTING PIPE NETWORKS THAT CONVEY FLOW TO DESIGNATED OUTLETS. IN AREAS WITHOUT CURBING, RUNOFF SHEET FLOWS OVER ADJACENT VEGETATED SIDE SLOPES AND DITCH LINES BEFORE ENTERING GRASSED OR RIPRAP-LINED SWALES. THESE SWALES PROVIDE INITIAL SEDIMENT CAPTURE AND FLOW ATTENUATION PRIOR TO DISCHARGE. PORTIONS OF THE PROJECT LOCATED NEAR EMBANKMENTS OR BRIDGE APPROACHES MAY ALSO DRAIN THROUGH STONE TOE PROTECTION, OUTLET PROTECTION STRUCTURES, OR STABILIZED CHANNELS DESIGNED TO CONTROL VELOCITY AND PREVENT EROSION. ALL FLOW PATHS ULTIMATELY CONVERGE WITHIN THE IDENTIFIED DRAINAGE AREAS AND DISCHARGE TO THE RESPECTIVE RECEIVING WATERS, INCLUDING THE BLACK RIVER, CONNECTICUT RIVER, AND SPENCER BROOK.

6. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

THE MEASURES INCLUDED IN THIS PLAN ARE PROVIDED AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. IT IS EXPECTED THAT THE CONTRACTORS MAY USE THIS PLAN, WITH ADJUSTMENTS AS NECESSARY, BASED ON THEIR SPECIFIC MEANS AND METHODS OF CONSTRUCTION.

REFER TO THE DETAILS INCLUDED IN THESE PLANS AND FLOW CHART FIGURES 3.1, 3.2, AND 3.3 IN THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR SPECIFIC GUIDANCE.

APPLYING THESE EPSC MEASURES THROUGHOUT CONSTRUCTION IS CRITICAL TO THEIR SUCCESS IN MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS.

6.1 IDENTIFY LIMITS OF DISTURBANCE

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED. PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. AS WELL AS PHYSICALLY DELINEATE PHASES OF THE PROJECT UNTIL THEY HAVE REACHED FINAL STABILIZATION. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

SITE BOUNDARIES ARE GENERALLY SET TO A 10 FOOT OFFSET FROM THE SLOPE LIMITS. IN SELECT LOCATIONS NEAR RESOURCES SUCH AS WETLANDS, WETLAND BUFFERS, ARCHAELOGICALLY SENSITIVE AREAS, AND STREAMS THIS OFFSET HAS BEEN REDUCED TO 5 FEET AS SHOWN ON THE CONSTRUCTION EPSC PLANS.

6.2 LIMIT CONCURRENT DISTURBANCE

LIMITING THE AMOUNT OF SOIL EXPOSED AT ONE TIME REDUCES THE POTENTIAL EROSION ON SITE. CONCURRENT EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY DISTURBING EARTH AS NECESSARY AND EMPLOYING STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE.

6.3 STABILIZE DISTURBED AREAS
6.3.1 ACCESS POINTS/ENTRANCE/EXITS

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES ARE ANTICIPATED ON THIS PROJECT AND SHALL BE LOCATED AS SHOWN ON THIS EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

6.3.2 TEMPORARY MEASURES FOR EXPOSED AREAS DURING CONSTRUCTION

ALL AREAS OF EARTH DISTURBANCE MUST HAVE STABILIZATION IN PLACE WITHIN 14 DAYS OF INITIAL DISTURBANCE. AFTER THIS TIME, DISTURBED AREAS MUST BE STABILIZED IN ADVANCE OF ANY RUNOFF PRODUCING EVENT.

SURFACE ROUGHENING OF EXPOSED SLOPES, SEEDING OF TEMPORARY SLOPES AND STOCKPILES, AND STANDARD MULCHING PRACTICES DESCRIBED IN SPECIFICATION SECTION 653.07 SHALL BE UTILIZED TO TEMPORARILY STABILIZE DISTURBED AREAS.

6.3.3 PERMANENT STABILIZATION AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

TURF ESTABLISHMENT MEASURES PER SECTION 651 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, ROLLED EROSION CONTROL PRODUCT, TYPE I SHALL BE USED INSTEAD OF MULCH.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, RECP, TYPE I SHOULD BE USED.

STONE FILL SHALL BE ADDED IN FRONT OF BRIDGE 26 N&S. STONE FILL WILL ALSO BE ADDED AT SEVERAL LOCATIONS ADJACENT TO SPENCER BROOK AND AT CULVERT INLETS, OUTLETS, AND MEDIAN SWALES AS SHOWN ON THE PLANS.

6.4 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS GENERALLY ROLLING HILLS AND MOST SURROUNDING TOPOGRAPHY DRAINS TOWARD OR AROUND THE PROJECT AREA. SPENCER BROOK WILL NEED TO BE REDIRECTED USING A BERM DURING ITS RECONSTRUCTION. DRAINAGE REPLACEMENT ACTIVITIES WILL BE SEQUENCED TO ENSURE UNINTERRUPTED FLOW, USING BYPASS OR DIVERSION MEASURES WHERE NECESSARY.

6.5 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED ON THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES, PRIOR TO ANY UP-SLOPE WORK.

SILT FENCE WILL BE INSTALLED ALONG THE CONTOURS AND AS PROPOSED ON THE EPSC PLAN. WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

INLET PROTECTION SHALL BE INSTALLED AT ALL NEW INLETS AND AT EXISTING INLETS DOWNSTREAM OF DISTURBED EARTH PRIOR TO FINAL STABILIZATION.

EROSION LOGS SHALL BE INSTALLED ACROSS SLOPES TALLER THAN 10' TO CONTROL OR SLOW DOWN WATER FLOW, TRAP SEDIMENT, AND PROTECT EXPOSED SLOPES.

6.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

TEMPORARY STONE CHECK DAMS WILL BE INSTALLED AS SHOWN ON THE PLANS.

7. CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

STORMWATER TREATMENT FOR THIS PROJECT WILL BE PROVIDED IN ACCORDANCE WITH DEC STORMWATER PERMIT XXXX-9050.

8. DEWATERING

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS FROM THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS. DEWATERED STORMWATER OR GROUNDWATER MUST BE FILTERED AND ROUTED IN A MANNER THAT DOES NOT RESULT IN VISIBLY TURBID DISCHARGES TO WATERS.

GENERAL SITE INSPECTIONS SHALL BE CONDUCTED IN ACORDANCE WITH SUBPART 2.2.1 OF THE GENERAL PERMIT FOR ALL AREAS THAT HAVE BEEN DISTURBED AND ARE NOT YET FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, IMMEDIATELY BEFORE ANY STORMWATER RUNOFF PRODUCING EVENT, AND DAILY DURING THE WINTER CONSTRUCTION PERIOD (OCTOBER 15 THROUGH APRIL 15). UPON INSPECTION, ANY EROSION PREVENTION AND SEDIMENT CONTROL MEASURE THAT IS NOT INSTALLED PROPERLY, IN NEED OF MAINTENANCE, OR NOT EFFECTIVELY PREVENTING SEDIMENT LADEN DISCHARGES SHALL BE CORRECTED BEFORE THE NEXT RUNOFF PRODUCING EVENT. IN ADDITION:

- IN ACCORDANCE WITH SUBPART 2.2.3 OR THE GENERAL PERMIT, IF DEWATERING ACTIVITIES ARE OCCURRING, THE PERMITTEE SHALL DAILY DURING DEWATERING ACTIVITIES INSPECT THE DEWATERING DEVICE TO ENSURE PROPER SEDIMENT CONTROL AND THE PERMITTEE SHALL COMPLETE DAILY SAMPLING REQUIREMENTS, USING A TURBIDITY METER, AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED
- IF VISIBLY DISCOLORED STORMWATER RUNS OFF THE CONSTRUCTION SITE OR DISCHARGES TO WATERS OF THE STATE, THE PERMITTEE SHALL TAKE IMMEDIATE CORRECTIVE ACTION TO INSPECT AND MAINTAIN EXISTING BEST MANAGEMENT PRACTICES (BMPS), AND TO INSTALL SUPPLEMENTAL BMPS NECESSARY TO MINIMIZE AND PREVENT THE DISCHARGE.
    - AFTER COMPLETION OF THE CORRECTIVE ACTION, THERE CONTINUES TO BE A DISCHARGE OF DISCOLORED STORMWATER FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THE PERMITTEE SHALL NOTIFY DEC BY SUBMITTING A DISCHARGE REPORT IN ACCORDANCE WITH SUBPART 2.2.2 OF THE CGP WITHIN 24 HOURS OF DISCOVERING THE DISCHARGE

THE PERMITTEE IS REQUIRED TO CONTINUE PERFORMING ALL GENERAL AND DISCHARGE INSPECTIONS UNTIL COVERAGE UNDER THIS PERMIT IS TERMINATED IN ACCORDANCE WITH SUBPART 5.5 OR EXPIRED.

DEWATERING IS ANTICIPATED. THE FILTER BAG DETAIL AND PAY ITEM HAVE BEEN INCLUDED AS A POTENTIAL TREATMENT MEASURE FOR THIS PURPOSE, HOWEVER THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR. ALL COSTS FOR TREATMENT OF DISCHARGE SHALL BE PAID FOR UNDER CONTRACT ITEM 653.4500.

9. OFF-SITE AREAS

OFF-SITE WASTE AND BORROW AREAS HAVE NOT BEEN IDENTIFIED FOR THIS PROJECT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PERMIT, AS NECESSARY, ANY OFF-SITE AREAS THAT ARE NEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 105.25 - 105.28. AS THIS PROJECT HAS AN INDIVIDUAL PERMIT, ALL OFF-SITE AREAS MAY BE SUBJECT TO REVIEW BY THE VANR DEC STORMWATER PROGRAM.

ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NECESSARY FOR WASTE, BORROW, AND STAGING AREAS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR PER 105.28 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILERS OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 12" OF GRAVEL. FOLLOWING COMPLETION OF CONSTRUCTION, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED, AND MULCHED.

ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

10. WINTER CONSTRUCTION

IF CONSTRUCTION ACTIVITIES ARE TAKING PLACE BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
  - ADEQUATE STORAGE AND CONTROL OF MELT-WATER
  - STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORMWATER TREATMENT STRUCTURES
- AREAS OF DISTURBANCE WITHIN 100 FT OF A WATERBODY MUST HAVE REINFORCED (WOVEN WIRE) SILT FENCE INSTALLED ACROSS THE SLOPE, DOWNGRADIENT OF THE EARTH DISTURBANCE. ALTERNATIVELY, REGULAR, NON-WOVEN WIRE SILT FENCE MAY BE USED IF COMBINED WITH EROSION CONTROL BERM, EROSION LOG, OR STRAW WATTLE.
- DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED PRIOR TO FROZEN GROUND.
- MULCH TO BE APPLIED AT A MINIMUM OF 2 INCHES DEPTH WITH 80-90% COVERAGE.
- AREAS OF DISTURBED SOILS MUST BE STABILIZED PRIOR TO ANY RUNOFF-PRODUCING EVENT, WITH THE FOLLOWING EXCEPTION:
  - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH NO OUTLET AND A DEPTH OF 2 FT OR GREATER (OPEN UTILITY TRENCHES), PROVIDED THAT ANY DEWATERING, IF NECESSARY, IS CONDUCTED AS REQUIRED.
- PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 1" THICKNESS.
- USE STONE TO STABILIZE AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED.

11. INSPECTION AND MAINTENANCE

INSPECTION AND MONITORING OF THE PROJECT'S EPSC MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION 653.04 MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN, ALONG WITH PERMIT SPECIFIC INSPECTION REQUIREMENTS. INSPECTIONS OF EPSC MEASURES SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND IMMEDIATELY BEFORE ANY STORMWATER RUNOFF PRODUCING EVENT.

DURING DEWATERING OPERATIONS, INSPECTIONS OF THE DEWATERING DISCHARGE SHALL BE CONDUCTED ONCE PER DAY. SAMPLES SHALL BE TAKEN AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED AND MUST BE TAKEN AFTER THE DEWATERING WATER HAS BEEN TREATED BY INSTALLED TREATMENT DEVICES AND PRIOR TO DISCHARGE OFF SITE INTO A RECEIVING WATER, CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURE, OR STORM DRAIN INLET. SAMPLES MUST BE MEASURED USING A TURBIDITY METER (NTUS), CALIBRATED PRIOR TO EACH DAY'S USE.

CONTRACTORS SHALL PROVIDE A COPY OF THEIR INSPECTION FORMS AS PART OF THEIR EPSC PLAN.

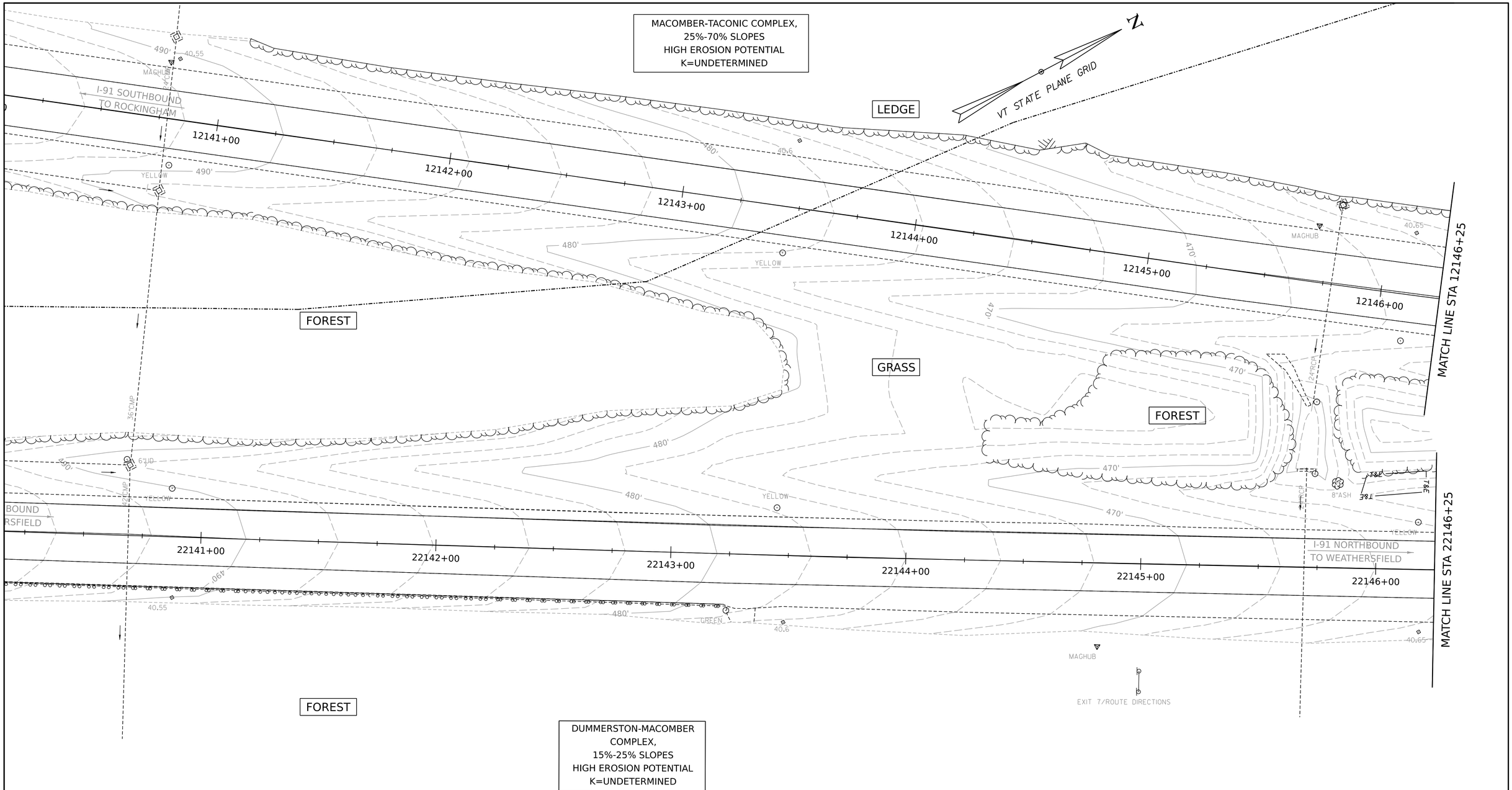
ALL EPSC MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574epsc_narrative
PROJECT LEADER: J. OLUND
DESIGNED BY: P. MCKECHNIE
EPSC NARRATIVE 3

PLOT DATE: 12-JUN-2026
DRAWN BY: P. MCKECHNIE
CHECKED BY: S. SPEAR
SHEET 698 OF 922



HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 1		SHEET	699 OF 922

DUMMERSTON-MACOMBER
COMPLEX,
15%-25% SLOPES
HIGH EROSION POTENTIAL
K=UNDETERMINED

VT STATE PLANE GRID

LEDGE

FOREST

FOREST

FOREST

MATCH LINE STA 12146+25

MATCH LINE STA 12152+25

MATCH LINE STA 22146+25

MATCH LINE STA 22152+25

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12147+00 12148+00 12149+00 12150+00 12151+00 12152+00

22147+00 22148+00 22149+00 22150+00 22151+00 22152+00

8"ASH

MAGHUB

40.70

40.75

24"RCP

6"CMP

PEAK LG BOULDER

PEAK OF BOULDER

BLUE

YELLOW

460'

450'

440'

470'

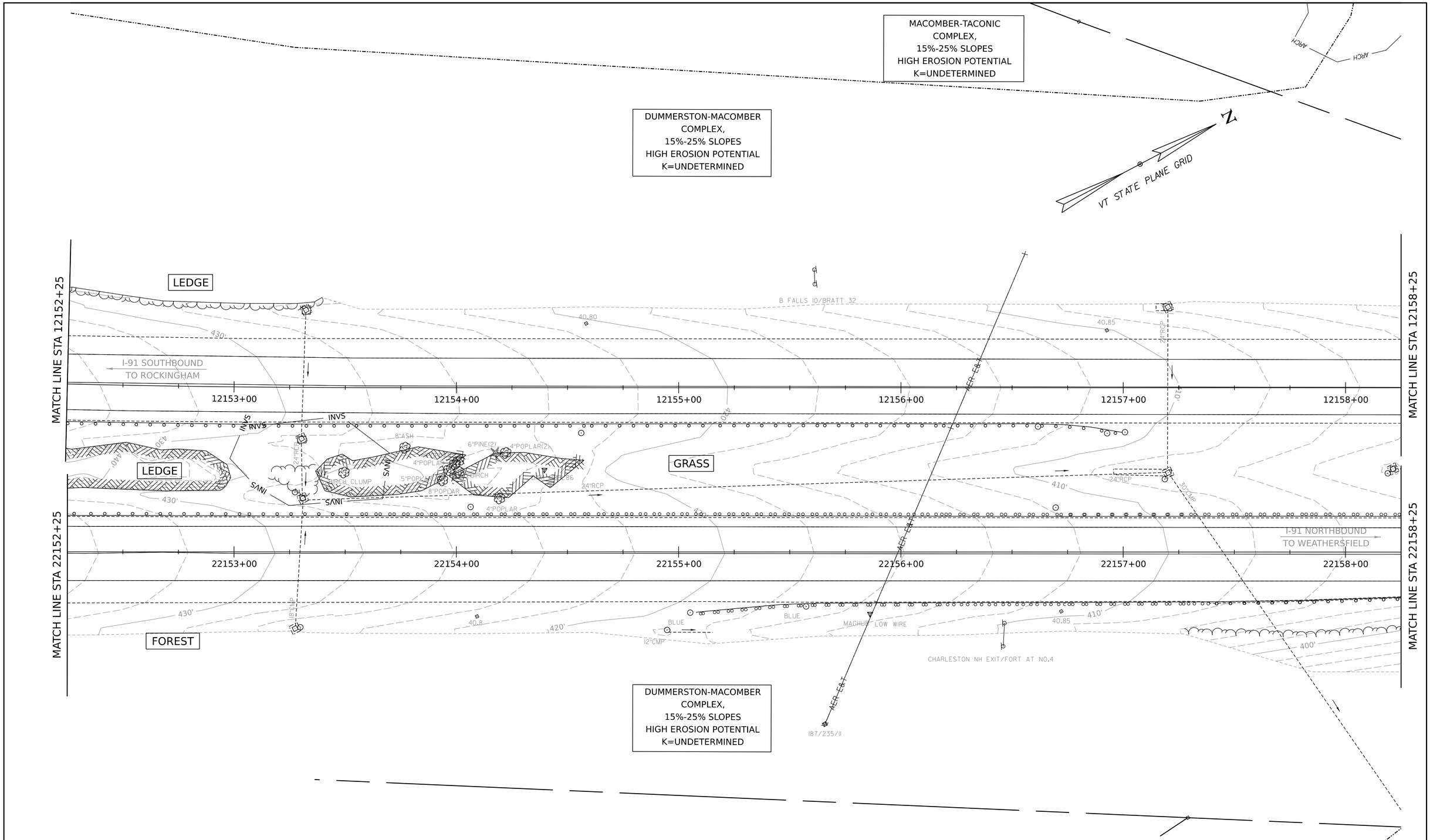
DUMMERSTON-MACOMBER
COMPLEX,
15%-25% SLOPES
HIGH EROSION POTENTIAL
K=UNDETERMINED

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 2		SHEET	700 OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
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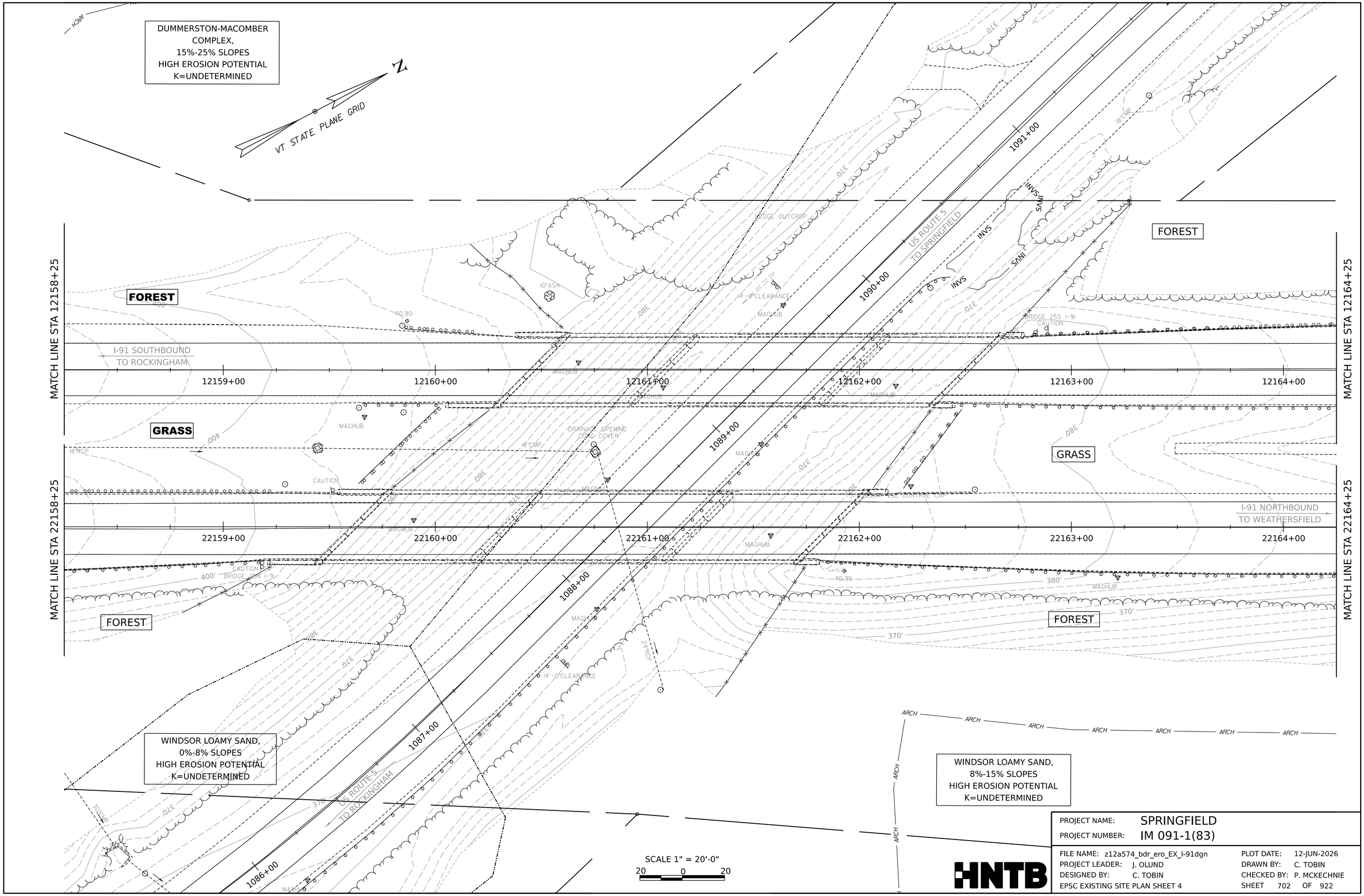
EPSC EXISTING SITE PLAN SHEET 3		SHEET	701 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
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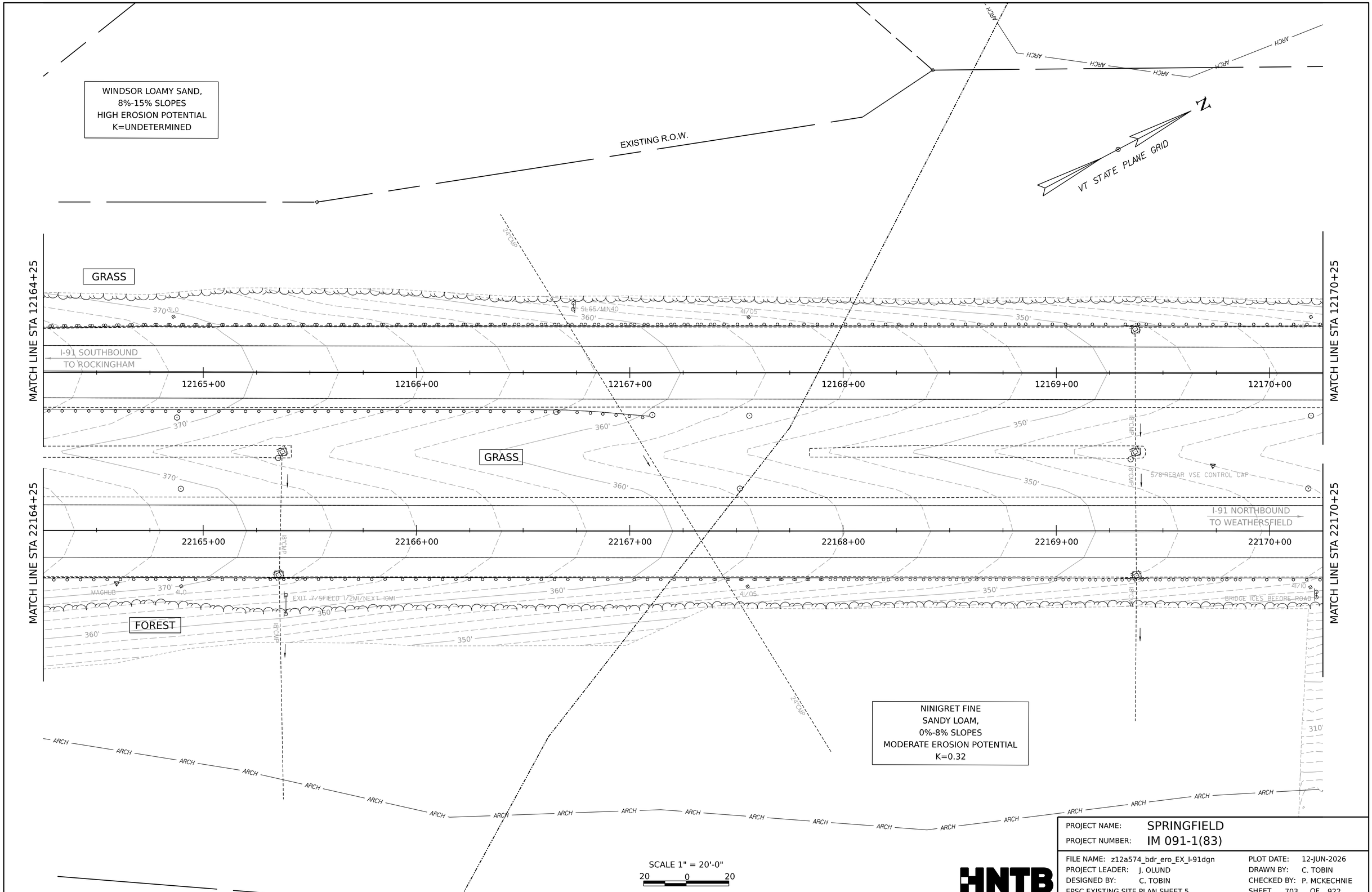
EPSC EXISTING SITE PLAN SHEET 4		SHEET	702 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
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EPSC EXISTING SITE PLAN SHEET 5		SHEET	703 OF 922

HNTB

EXISTING R.O.W.

NINIGRET FINE
SANDY LOAM,
0%-8% SLOPES
MODERATE EROSION POTENTIAL
K=0.32

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

FOREST

GRASS

FOREST

SOUTH I-91

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

EMER STOPPING ONLY 12.7' WIDE

18"CMP

BLACK RIVER

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

NINIGRET FINE
SANDY LOAM,
0%-8% SLOPES
MODERATE EROSION POTENTIAL
K=0.32

SCALE 1" = 20'-0"
20 0 20

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EPSC EXISTING SITE PLAN SHEET 6	SHEET 704 OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 22176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22182+50

WATER

BLACK RIVER

800+00

801+00

802+00

803+00

PODUNK FINE
SANDY LOAM,
0%-3% SLOPES
MODERATE EROSION POTENTIAL
K=0.24

NINIGRET FINE
SANDY LOAM,
0%-8% SLOPES
MODERATE EROSION POTENTIAL
K=0.32

CLASS II WETLAND

50' WETLAND BUFFER

FOREST

GRASS

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

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EPSC EXISTING SITE PLAN SHEET 7	SHEET 705 OF 922

EXISTING R.O.W.

NINIGRET FINE
SANDY LOAM,
0%-8% SLOPES
MODERATE EROSION POTENTIAL
K=0.32

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

CLASS III
WETLAND

VT STATE PLANE GRID

FOREST

GRASS

FOREST

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

BRIDGE NO. 5 BEFORE ROAD
WIDENING

5/8"REBAR VSE CONTROL CAP

NO U-TURN/2'WIDE

EXIT INFO

50' WETLAND BUFFER

CLASS II
WETLAND

PODUNK FINE
SANDY LOAM,
0%-3% SLOPES
MODERATE EROSION POTENTIAL
K=0.24

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_EX_I-91dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 8	SHEET 706 OF 922

EXISTING R.O.W.

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

CLASS II
WETLAND

NINIGRET FINE
SANDY LOAM,
0%-8% SLOPES
MODERATE EROSION POTENTIAL
K=0.32

FOREST

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

SHRUBS

FOREST

PODUNK FINE
SANDY LOAM,
0%-3% SLOPES
MODERATE EROSION POTENTIAL
K=0.24

50' WETLAND BUFFER

CLASS II
WETLAND

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

VT STATE PLANE GRID

STA 400+75

STA 12194+50

STA 22194+50

STA 204+25

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_EX_I-91dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 9	SHEET 707 OF 922

HNTB

STA 22194+50

22195+00

22196+00

22197+00

22198+00

22199+00

MATCH LINE STA 22199+00

MATCH LINE STA 209+25

STA 204+25

205+00

206+00

207+00

208+00

209+00

I-91 NORTHBOUND RAMP

I-91 ON RAMP TO I-91 NORTHBOUND

I-91 NORTHBOUND TO WEATHERSFIELD

ONE WAY

GRASS

FOREST

FOREST

FOREST

GRAVEL

B-109 AS-DRILLED 2"PVC/2.4'TALL

BORING 2469

MAGHUB

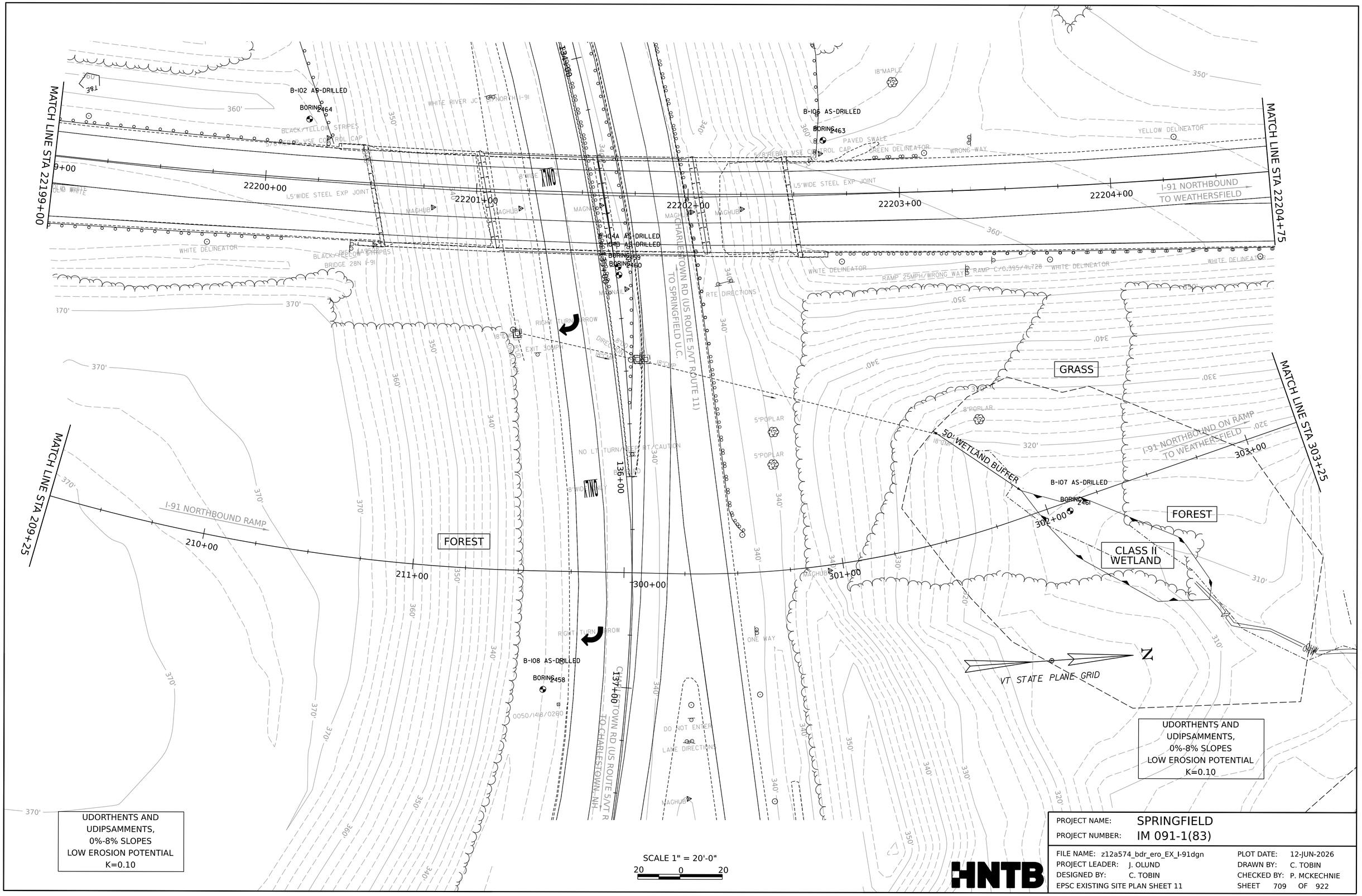
UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

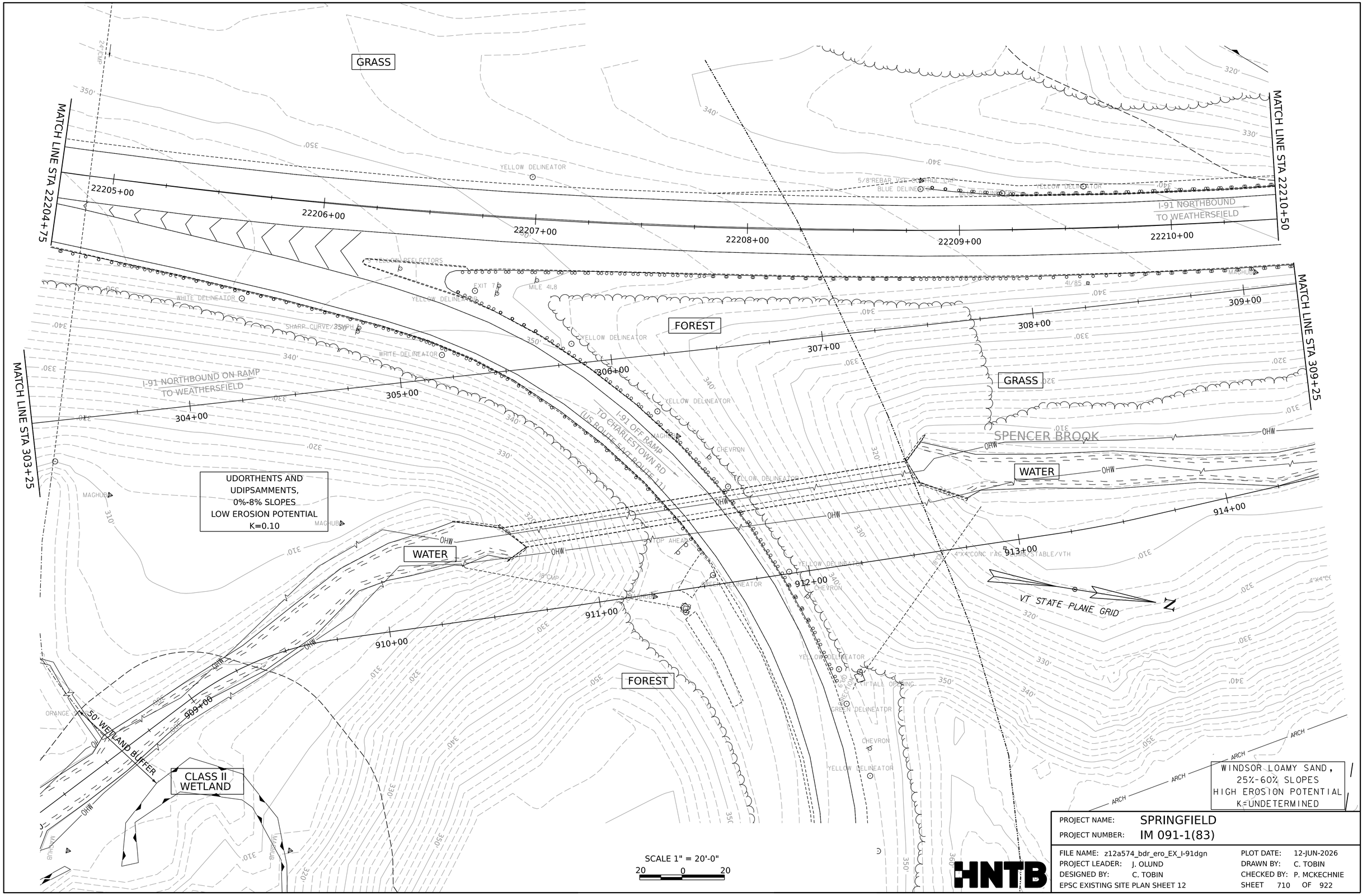
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_EX_I-91dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 10	SHEET 708 OF 922

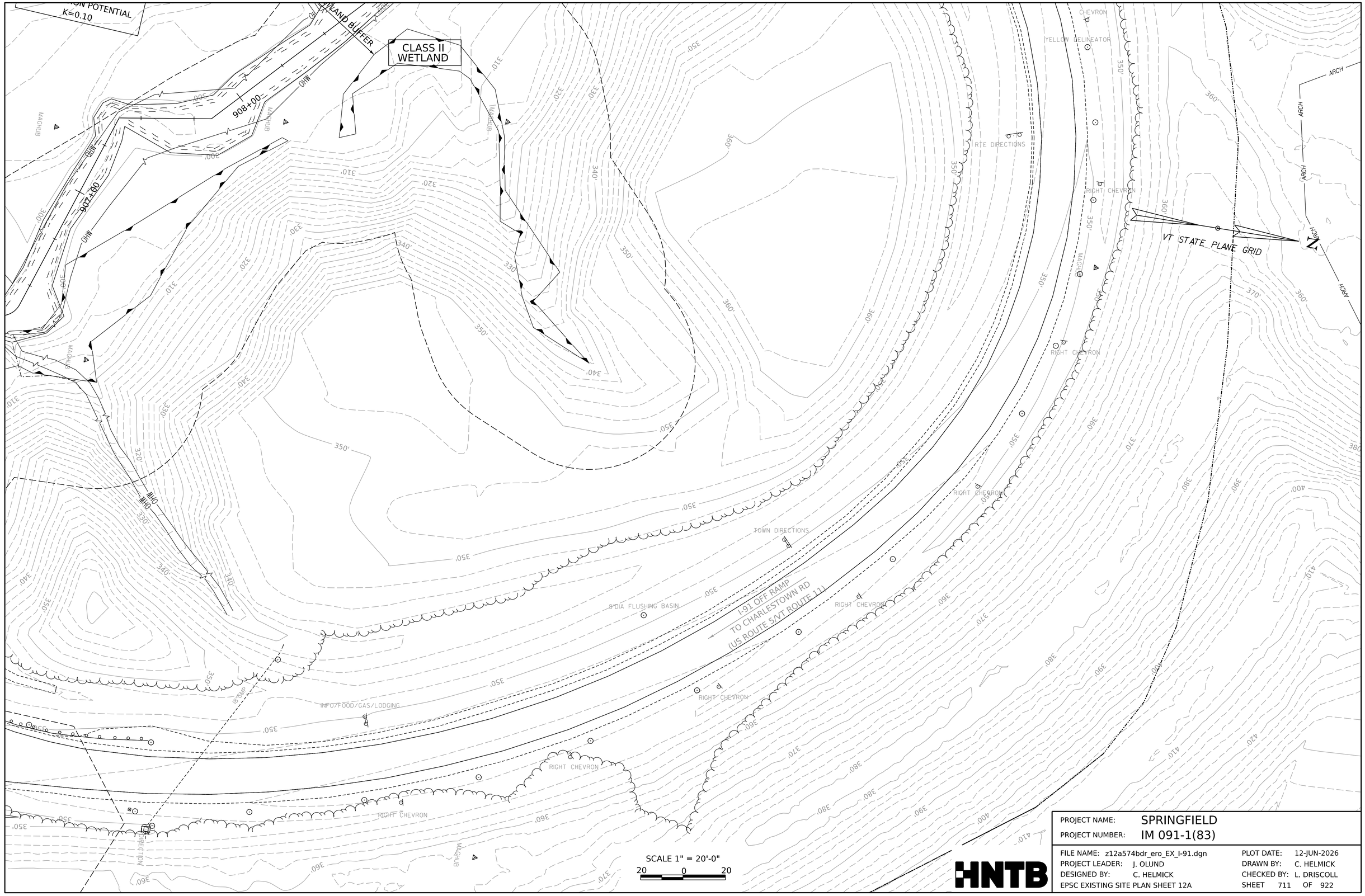
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 11		SHEET	709 OF 922


MATCH LINE STA 303+25
MATCH LINE STA 22204+75
MATCH LINE STA 22210+50
MATCH LINE STA 309+25
GRASS
FOREST
WATER
CLASS II WETLAND
50' WETLAND BUFFER
UDORTHENTS AND UDIPSAMMENTS, 0%-8% SLOPES LOW EROSION POTENTIAL K=0.10
WINDSOR LOAMY SAND, 25%-60% SLOPES HIGH EROSION POTENTIAL K=UNDETERMINED
I-91 NORTHBOUND ON-RAMP TO WEATHERSFIELD
I-91 NORTHBOUND TO WEATHERSFIELD
I-91 OFF RAMP TO CHARLESTOWN RD (US ROUTE 5 SAINT ROUTE 11)
SPENCER BROOK
VT STATE PLANE GRID
N
SCALE 1" = 20'-0"
20 0 20
22205+00
22206+00
22207+00
22208+00
22209+00
22210+00
304+00
305+00
306+00
307+00
308+00
309+00
910+00
911+00
912+00
913+00
914+00
909+00
YELLOW DELINEATOR
WHITE DELINEATOR
GREEN DELINEATOR
CHEVRON
SHARP CURVE 35MPH
EXIT 7
MILE 41.8
YELLOW REFLECTORS
5/8"REBAR W/ CAP
BLUE DELINEATOR
MAGHUB
OHW
TOP
IP CMP
24" CMP
4'X4' CONC HEADWALL/STABLE/VTH
4'X4' CONC HEADWALL
4'X4' CONC WINGWALL
4'X4' CONC WINGWALL/VTH
4'X4' CONC WINGWALL/STABLE
4'X4' CONC WINGWALL/STABLE/VTH
4'X4' CONC HEADWALL/VTH
4'X4' CONC HEADWALL/STABLE
4'X4' CONC WINGWALL/VTH
4'X4' CONC WINGWALL/STABLE


K=0.10
WETLAND BUFFER
CLASS II WETLAND
908+00
MH0
MH0
MH0

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

WATER

CLASS II WETLAND

CLASS II WETLAND

CLASS II WETLAND

CLASS II WETLAND

WINDSOR LOAMY SAND,
25%-60% SLOPES
HIGH EROSION POTENTIAL
K=UNDETERMINED

WINDSOR LOAMY SAND,
25%-60% SLOPES
HIGH EROSION POTENTIAL
K=UNDETERMINED

50' WETLAND BUFFER

50' WETLAND BUFFER

SHRUBS

GRASS

GRASS

FOREST

SPENCER BROOK

I-91 NORTHBOUND
TO WEATHERSFIELD

NORTH I91

BRIDGE 28-IN/I-91

EMERGENCY STOPPING ONLY

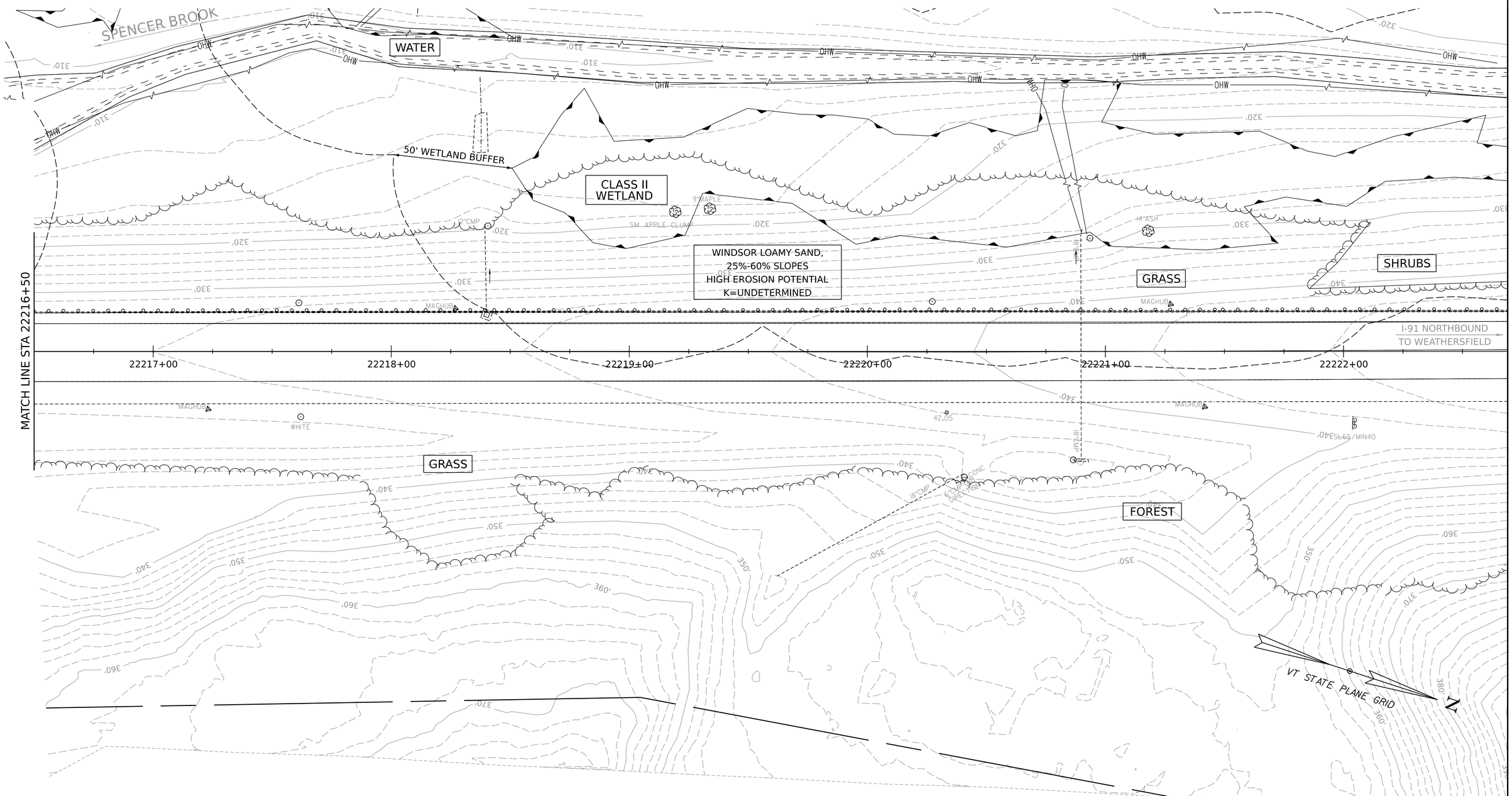
9"CHERRY

VT STATE PLANE GRID N

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 13		SHEET 712 OF 922	

HNTB



WINDSOR LOAMY SAND,
25%-60% SLOPES
HIGH EROSION POTENTIAL
K=UNDETERMINED

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 14		SHEET	713 OF 922

N

VT STATE PLANE GRID

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

C&T

AER E&T

WS

STA 400+75

STA 12194+50

MATCH LINE STA 12198+75

401+00

402+00

403+00

404+00

405+00

12195+00

12196+00

12197+00

12198+00

340'

350'

360'

370'

FOREST

GRASS

B-110 AS-DRILL

KEEP RT

BORING431

YIELD

3'TALL WHITE TRIANGLES(6)

INTERSTATE RESTRICTIONS

I-91 ON RAMP
TO I-91 SOUTHBOUND

I-91 SOUTHBOUND
TO ROCKINGHAM

NO LEFT TURN

WHITE DELINEATORS

LANE MERGE

YELLOW DELINEATORS

ONE WAY

5/8"REBAR VSE CONTROL CAP

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_EX_I-91dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 15	SHEET 714 OF 922

FOREST

GRASS

CLASS III WETLAND

50' WETLAND BUFFER

VT STATE PLANE GRID

UDORTHENTS AND UDIPSAMMENTS, 0%-8% SLOPES LOW EROSION POTENTIAL K=0.10

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT-ROUTE 11) TO CHARLESTOWN, NH

I-91 OFF RAMP

I-91 SOUTHBOUND TO ROCKINGHAM

MATCH LINE STA 12198+75

MATCH LINE STA 12204+00

B-101 AS-DRILLED BORING 2465

B-103 AS-DRILLED BORING 2466

B-105 AS-DRILLED BORING 2467

12199+00

12200+00

12201+00

12202+00

12203+00

1220

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 16		SHEET	715 OF 922

HNTB

VT STATE PLANE GRID

N

FOREST

WINDSOR LOAMY SAND,
25%-60% SLOPES
HIGH EROSION POTENTIAL
K=UNDETERMINED

GRASS

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

I-91 OFF RAMP

RAMP 40MPH/WRONG WAY

RAMP B/O 243+11.828

WHITE DELINEATOR

BEGIN SOLID WHITE

SOLID WHITE

YELLOW DELINEATOR

MATCH LINE STA 12209+50

12209+00

12208+00

12207+00

12206+00

12205+00

I-91 SOUTHBOUND
TO ROCKINGHAM

MATCH LINE STA 12204+00

4+00

12"CMP

BRDG FREEZE BEFORE RD

EXIT 7

9 YELLOW REFLECTORS

1 WIDE WHITE

YELLOW DELINEATOR CONTROL CAP

WRONG WAY

50' WETLAND BUFFER

FOREST

CLASS II
WETLAND

SHRUBS

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

GRASS

SHRUBS

INVS

MAGHUB

MAGNAIL

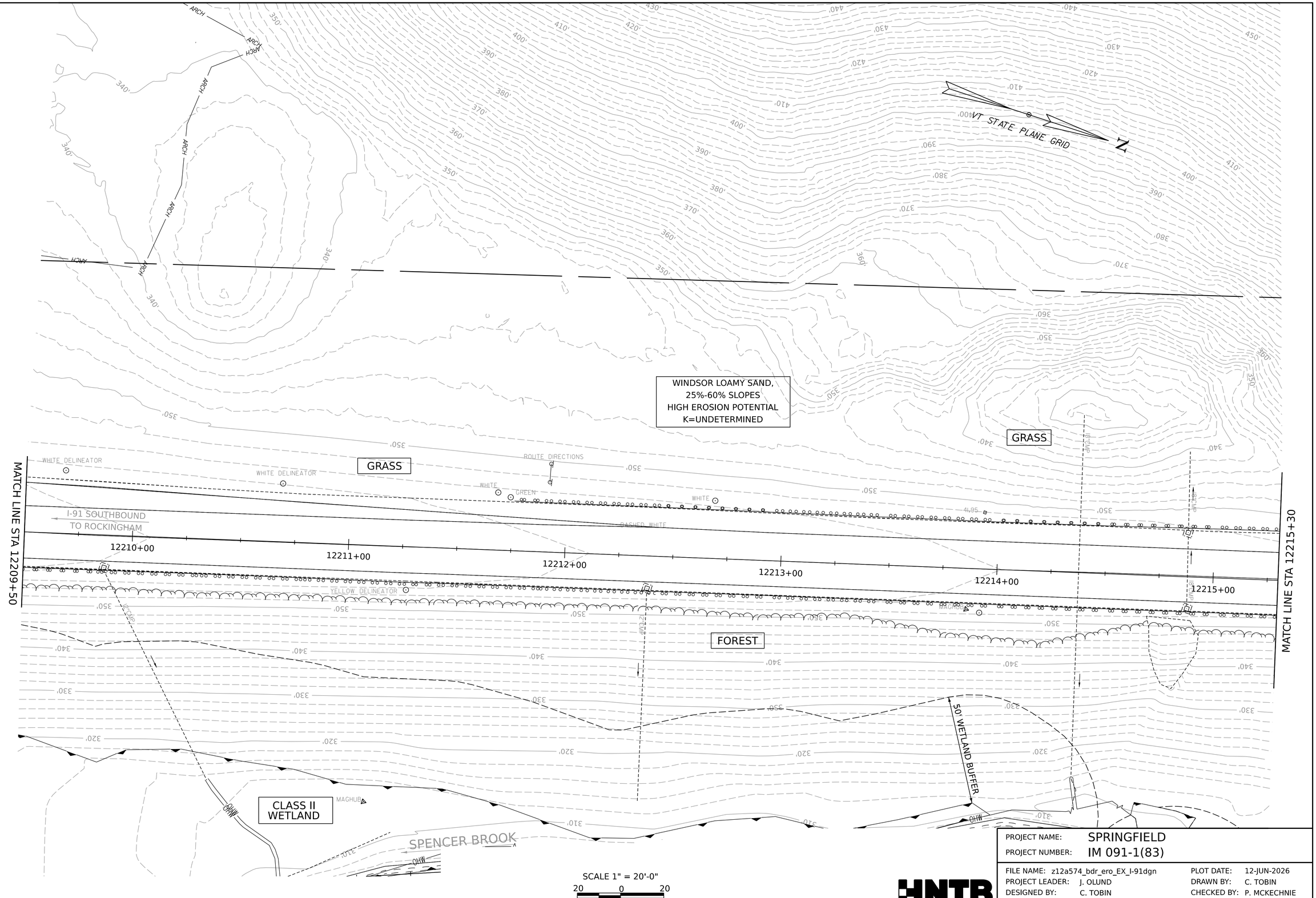
2"PINE

SCALE 1" = 20'-0"

20 0 20

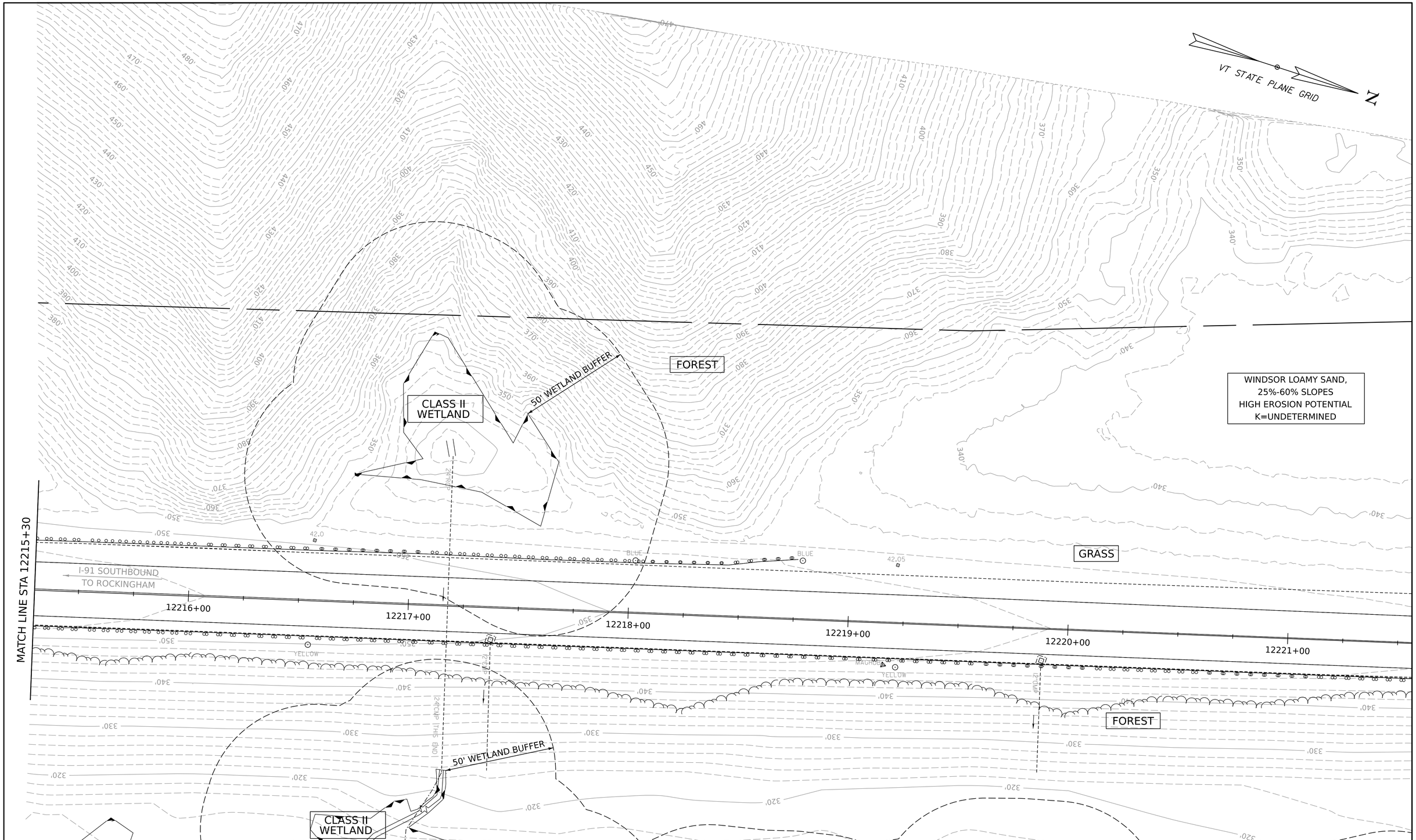
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_EX_I-91dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 17	SHEET 706 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_EX_I-91dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 18	SHEET 717 OF 922

HNTB



HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_EX_I-91dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 19		SHEET	718 OF 922

N

VT STATE PLANE GRID

GLOVER-VERSHIRE
COMPLEX,
35%-60% SLOPES
HIGH EROSION POTENTIAL
K=UNDEFINED

PAVEMENT

FOREST

GRASS

LANE ARROWS

PARK AND RIDE

STOP

STAY RT OF MEDIAN

CEN RT TURN/STRAIGHT ARROW

CEN LT TURN ARROW

STAY RT OF MEDIAN

MATCH LINE STA 121+50

CHARLESTOWN RD (VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

116+00

117+00

118+00

119+00

120+00

121+00

2002+00

2001+00

2000+00

1999+00

1998+00

1119+00

1118+00

4"X4"VTHD CONC UP 3"

4"X4"VTHD CONC UP 6"

GRANITE
PAINT SPOT HOWL

24" RCMP

SL40

ROUTE

AER E&T

I455

BND

I/162

I/163

15"CPEP

12"CPEP

18"CMP

BIKE ROUTE

WOODEN

STOP AHEAD

8"X8" 3'TALL

GATE

SEATBELTS REQUIRED

STOP AHEAD

8"X8" 2.5'TALL

8"X8" 3'TALL

10"/8"CHERRY

2DROPS

TIE DIST=40.5I

2' WIDE WHITE

8' WIDE STOP

STREETLIGHT

I4"/I0"CHERRY

YIELD

I4"O" I/2 MI AHD

S MAPLE

NO TRUCKS

MISSING LINK RD (US ROUTE 5)
TO ROCKINGHAM

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_EX_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 20	SHEET 719 OF 922

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

N

VT STATE PLANE GRID

CLASS III WETLAND

VTHD 4"X4"CONC UP 3"

TOP 6"METAL CONDUIT IN CULV

36"CMP

2.4'TALL METAL

3"ASH CLUSTER

SINK HOLE

18"CMP

DIRECTIONS

BEG YELLOW FOG LINE

GRASS

ROUTE

SL40

7B/0243

MATCH LINE STA 121+50

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

RETAINING WALL

SIGNAL SIGNAL

18"

122+00

123+00

124+00

OVHD IGN MAST/3X3

BEVELED

125+00

126+00

MATCH LINE STA 126+75

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

END DASHED WHITE

2003+00

JCT I-91

7A/000

2004+00

2005+00

2006+00

2007+00

2008

0050/1418/0240

CAUTION

GRASS

EXIT 30 MPH

OVHD SIGN MAST/3X3

I-91 ON RAMP
TO I-91 SOUTHBOUND

INVS

SHRUBS

SHARP TURN/30MPH/2'WIDE

320'

330'

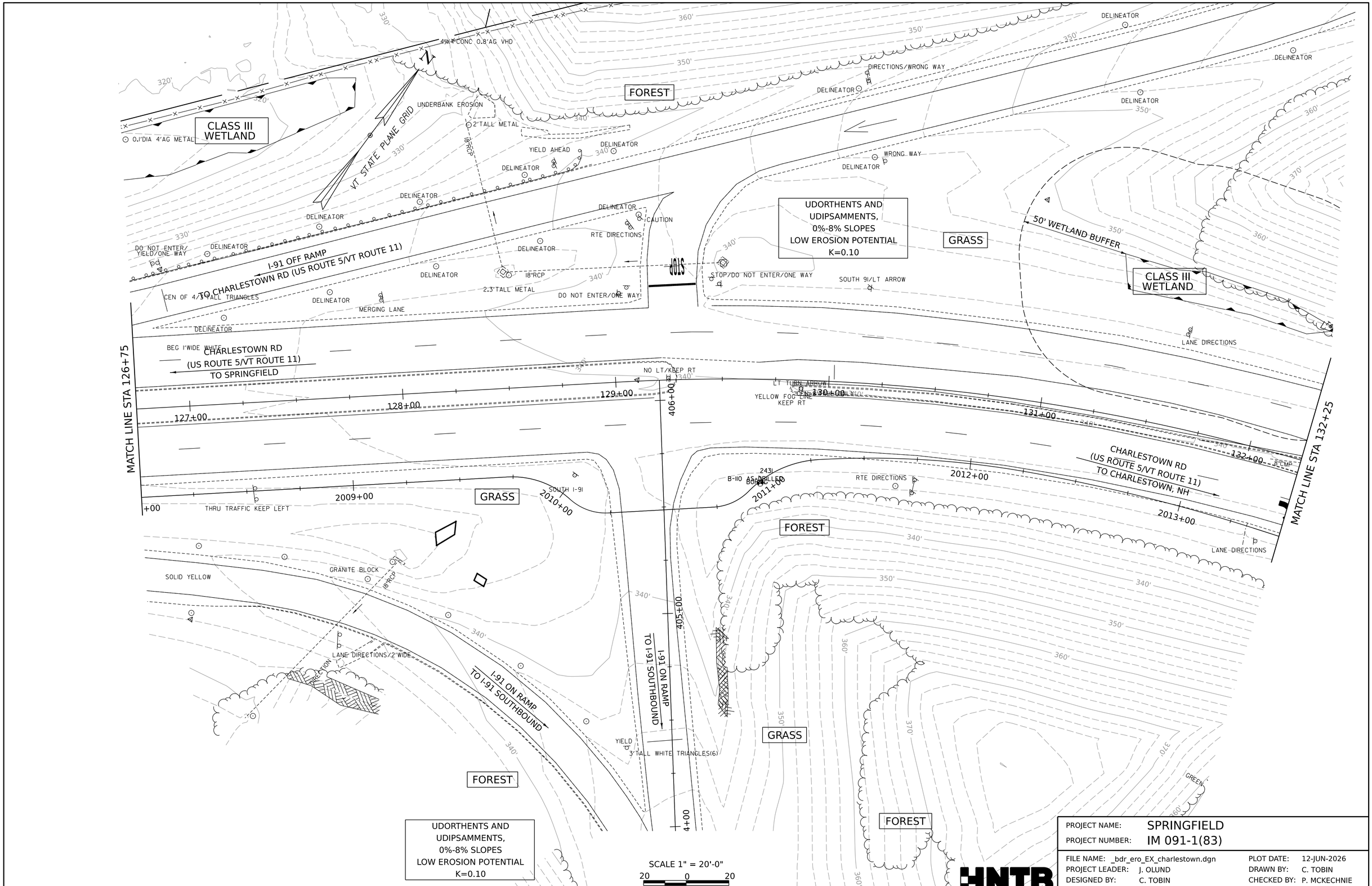
UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

E&T

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_EX_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 21	SHEET 720 OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	_bdr_ero_EX_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 22		SHEET 721	OF 922

HNTB

N

VT STATE PLANE GRID

FOREST

GRASS

FOREST

FOREST

BLUE DELINEATOR

24"MAPLE

18"MAPLE

GREEN DELINEATOR

PAVED SWALE
PAVED SWALE

I-91 NORTHBOUND
TO SPRINGFIELD

22203+00

18"CMP

WHITE DELINEATOR

5/8"REBAR VSE CONTROL CAP

2463
BORING
B-106 AS-DRILLED

1.5"WIDE STEEL EXP JOINT

PAVED SWALE
PAVED SWALE

BLACK/YELLOW STRIPES

BLACK/YELLOW STRIPES
BRIDGE 28S I-91

2467
BORING
B-105 AS-DRILLED

1.5"WIDE STEEL EXP JOINT

12202+00

22202+00

301+00

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
203' LENGTH. 78.23° SKEW

5"POPLAR
5"POPLAR

RTE DIRECTIONS

ONE WAY

TOWN DIRECTIONS

50' WETLAND BUFFER

5/8"REBAR VSE CONTROL CAP

SOUTH I-91 LEFT

18"CMP

DO NOT ENTER

LANE DIRECTIONS

GRASS

NO LT TURN/KEEP RT/CAUTION

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

MATCH LINE STA 132+25

12201+00

134+00

2466
BORING
B-103 AS-DRILLED

1.5"WIDE RUBBERIZED JOINT

8"UD
DIRECTION

18"CMP

BEVELED

156+00

300+00

137+00

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

MATCH LINE STA 137+50

WHITE RIVER JCT 31/NORTH I-91

2015+00

2016+00

EXIT 30MPH

8"UD
DIRECTION

18"CMP

2017+00

2018+00

2458
00500/1418/0260
BORING
B-108 AS-DRILLED

DIRECTION/ANGLES AROUND PIERS

2014+00

18"CMP

22201+00

EXISTING BRIDGE
BUILT 1965,
2-2 SPAN CONTINUOUS
ROLLED BEAMS, CONCRETE DECK
198' LENGTH. 79.11° SKEW

FOREST

211+00

12200+00

1.5"WIDE STEEL EXP JOINT

1.5"WIDE STEEL EXP JOINT

5/8"REBAR VSE CONTROL CAP

2464
BLACK/YELLOW STRIPES
BORING
B-102 AS-DRILLED

BLACK/YELLOW STRIPES
BRIDGE 28N I-91

5/8"REBAR VSE CONTROL CAP

22200+00

2465
BORING
B-101 AS-DRILLED

UDORTHENTS AND
UDIPSAMMENTS,
0%-8% SLOPES
LOW EROSION POTENTIAL
K=0.10

DELINEATOR

WHITE DELINEATOR

I-91 SOUTHBOUND
TO ROCKINGHAM

12199+00

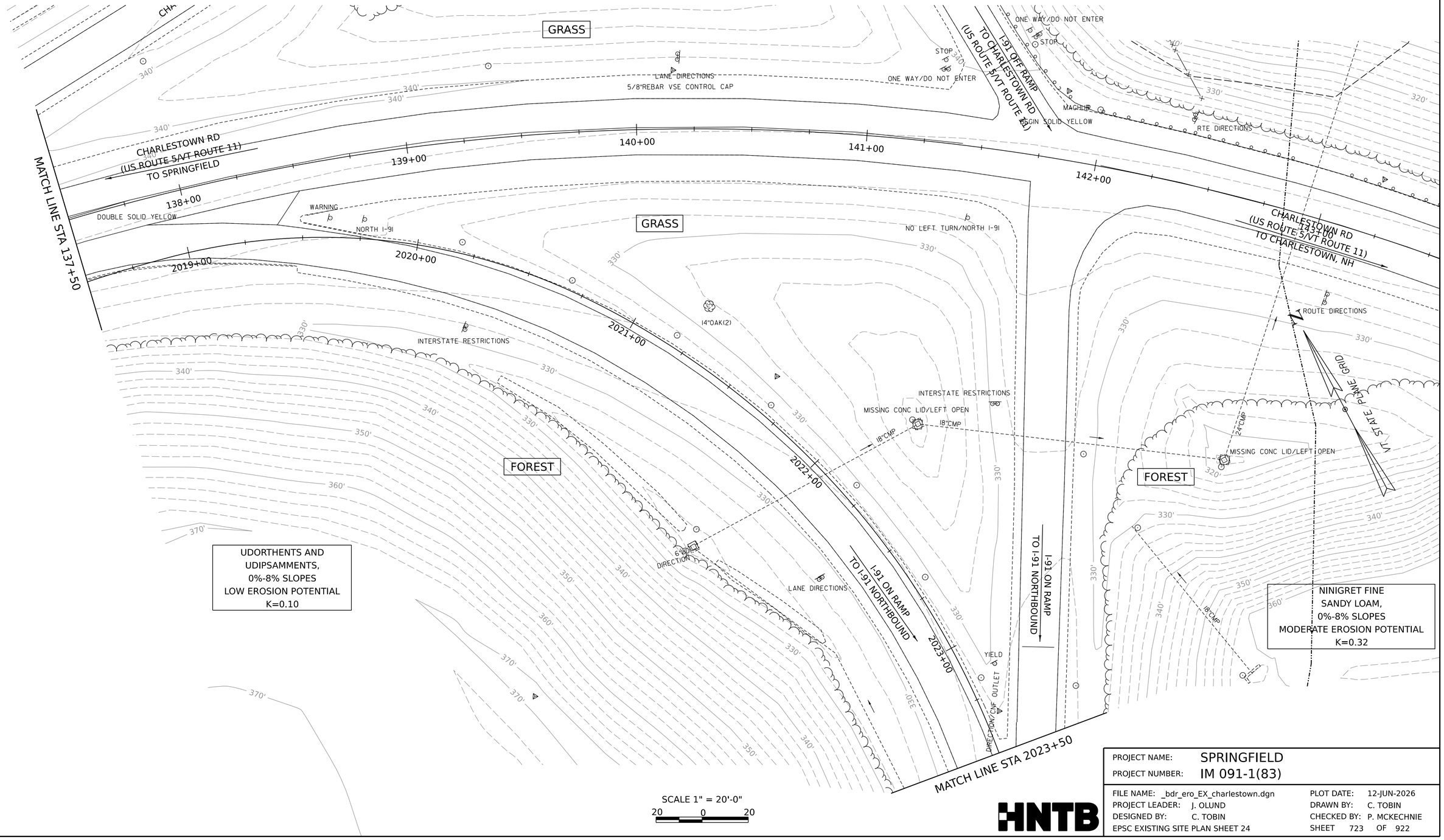
210+00

TBE

SCALE 1" = 20'-0"
20 0 20

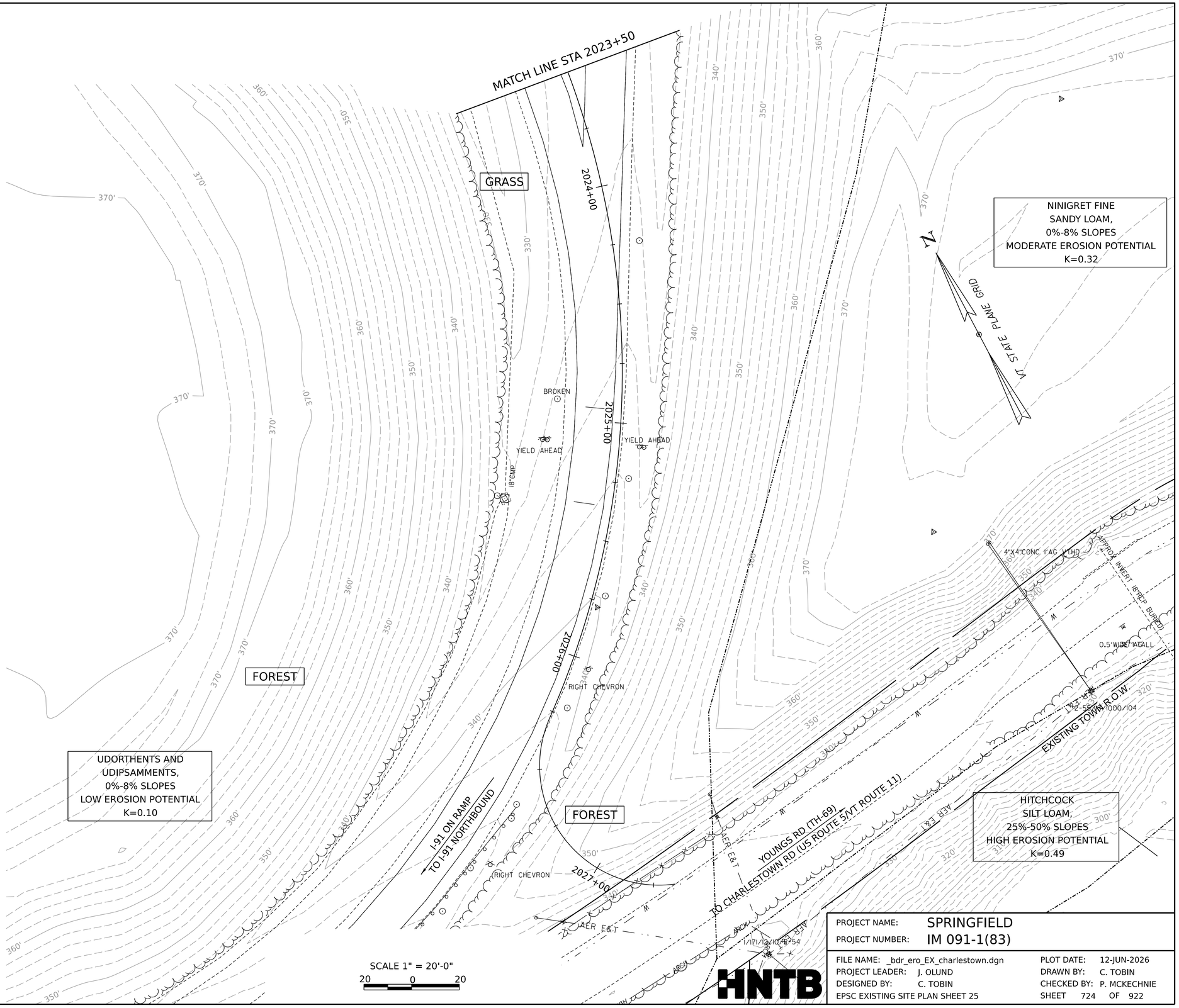
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_EX_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 23	SHEET 722 OF 922



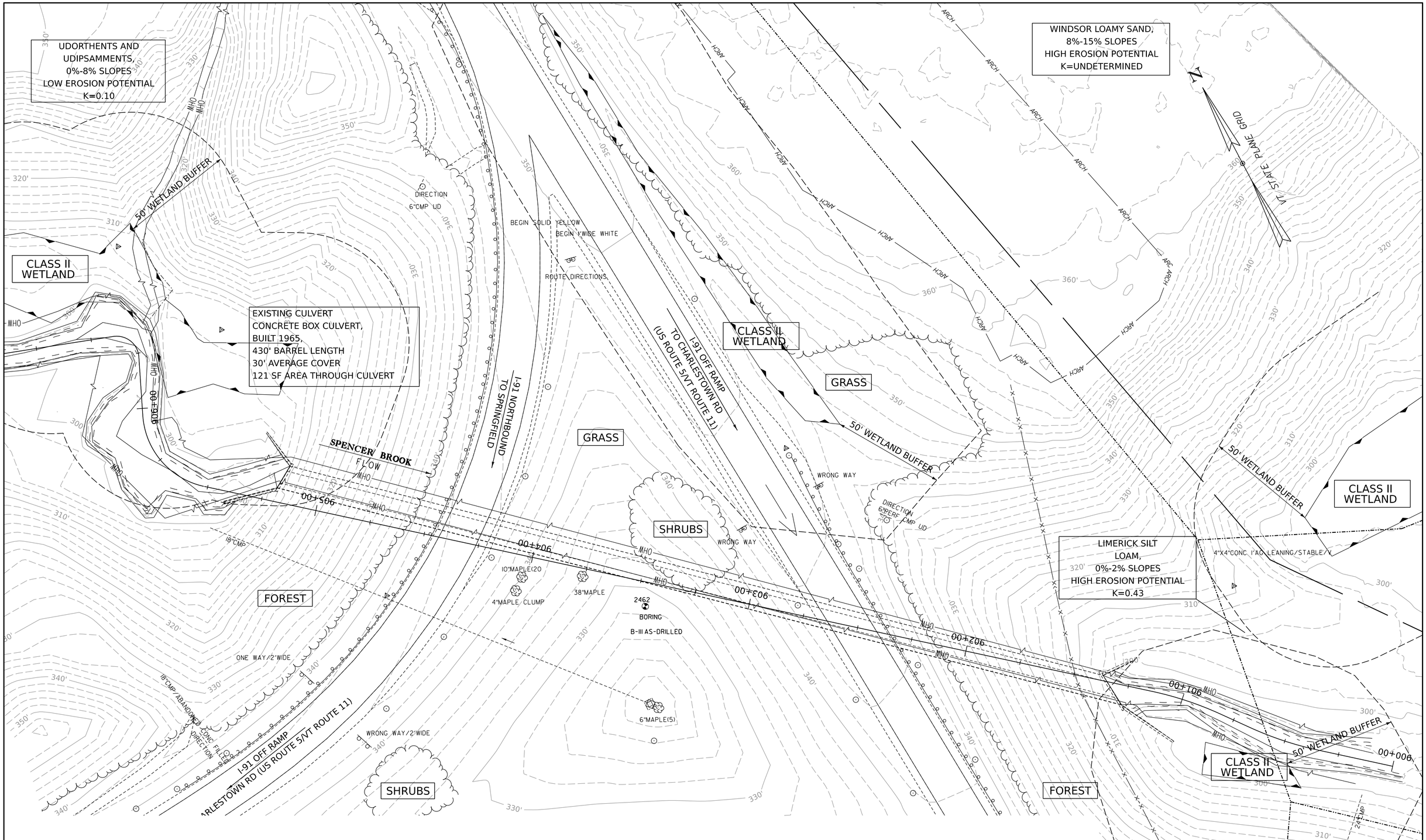
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_EX_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 24	SHEET 723 OF 922

HNTB



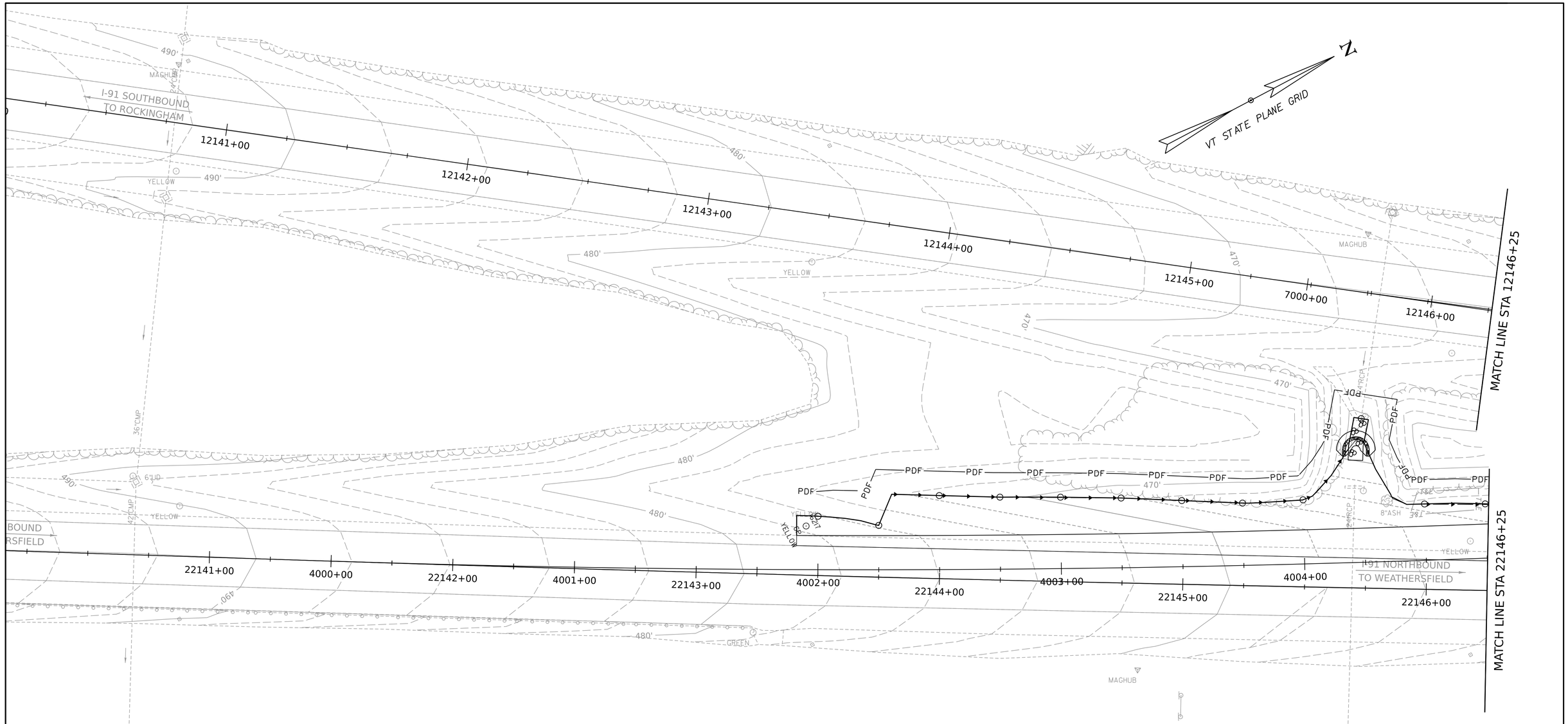
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_EX_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 25	SHEET 724 OF 922

HNTB



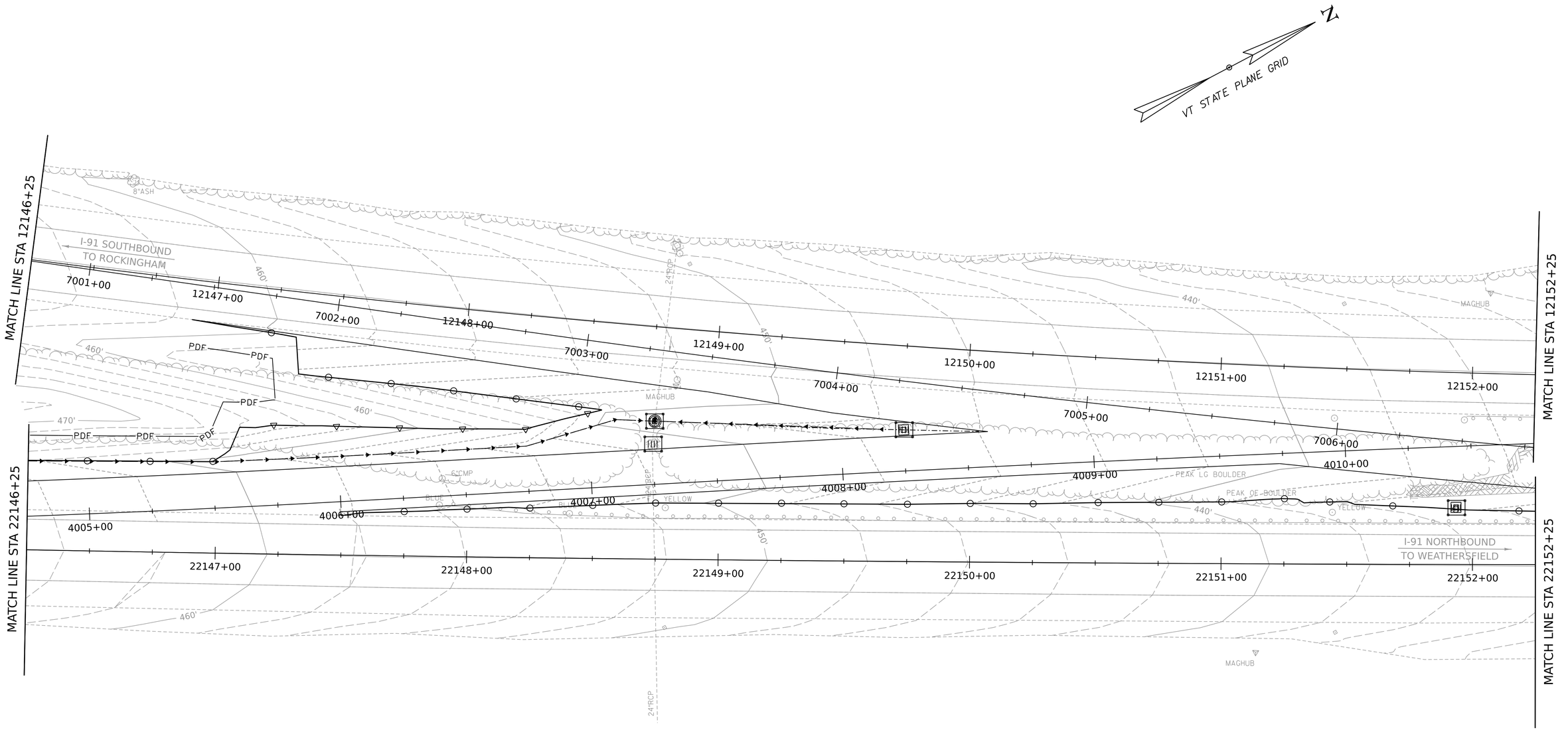
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	_bdr_ero_EX_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC EXISTING SITE PLAN SHEET 26		SHEET	725 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 1	SHEET 726 OF 922

HNTB

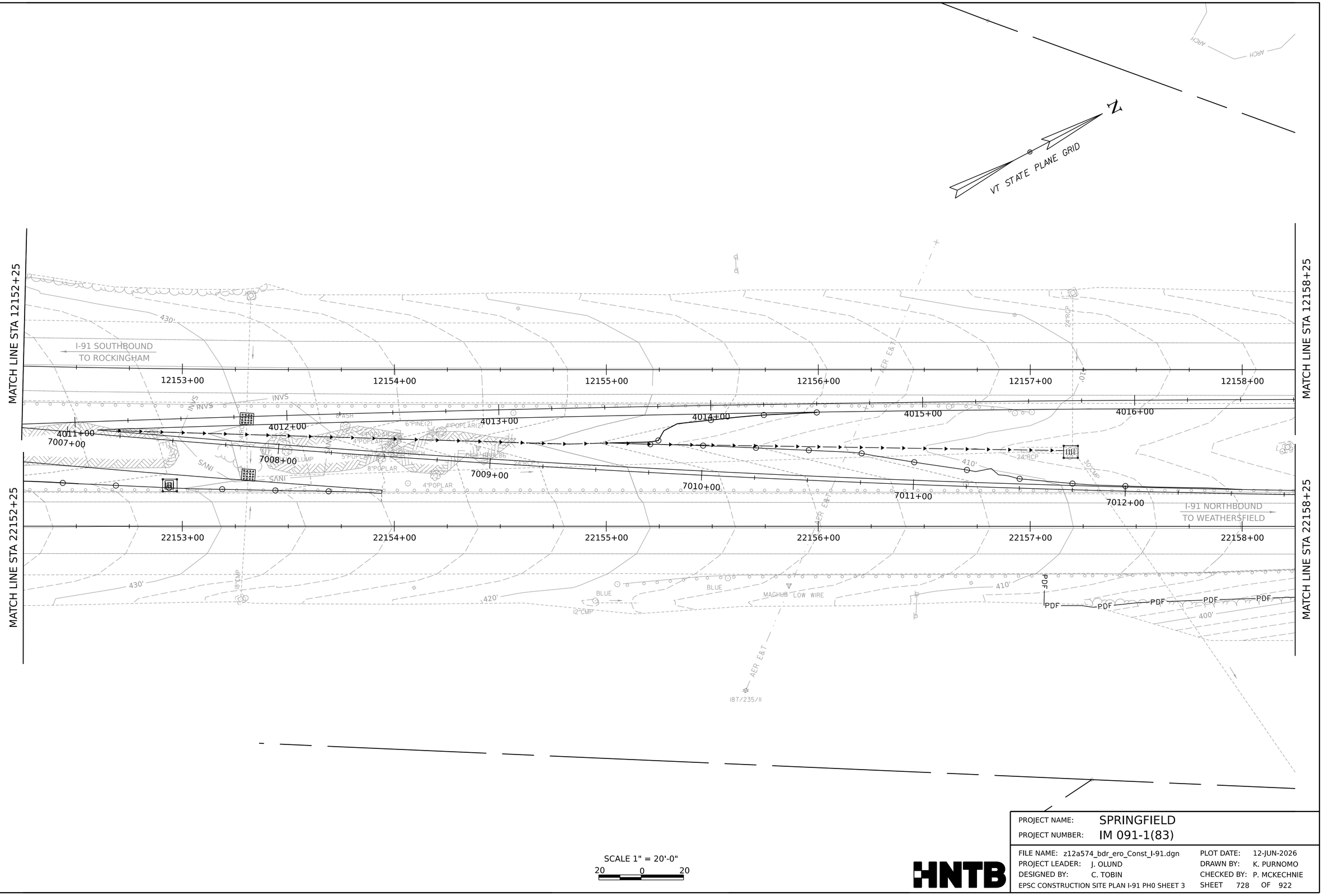


SCALE 1" = 20'-0"

20 0 20

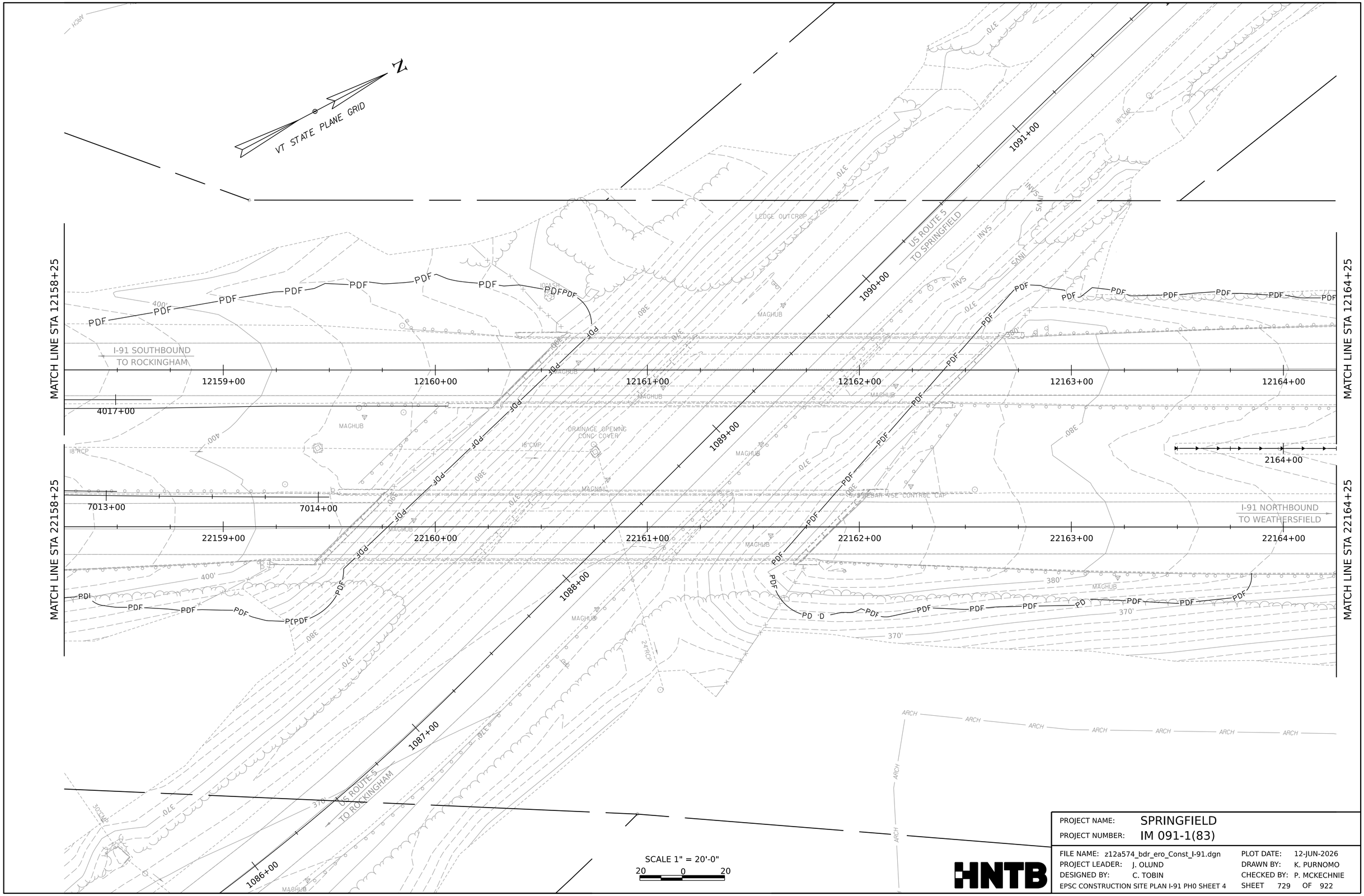
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 2		SHEET 727	OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 3		SHEET 728	OF 922

HNTB



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 4		SHEET 729	OF 922

HNTB

EXISTING R.O.W.

VT STATE PLANE GRID

N

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

4023+00 4024+00 4025+00 4026+00 4027+00 4028+00

2165+00 2166+00 2167+00 2168+00 2169+00 2170+00

7019+00 7020+00 7021+00 7022+00 7023+00 7024+00

5/8"REBAR VSE CONTROL CAP

I-91 NORTHBOUND
TO WEATHERSFIELD

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

MAGHUB

PDF

24"CMP

18"CMP

ARCH

370' 360' 350' 310'

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 5		SHEET	730 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

I-91 SOUTHBOUND
TO ROCKINGHAM

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

7025+00 7026+00 7027+00 7028+00 7029+00 7030+00

2171+00 2172+00 2173+00 2174+00 2175+00 2176+00

18"CMP

4029+00 4030+00 4031+00 4032+00 4033+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 6		SHEET	731 OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22176+40

MATCH LINE STA 22182+50

BLACK RIVER

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

800+00 801+00 802+00 803+00

VT STATE PLANE GRID

N

MAGHUB

CROSS MARK IN BOULDER

5/8"REBAR W/SE CONTROL CAP

18"CMP

DIRECTION FOR BOTH

CHISELED X ON ROCK

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 7		SHEET	732 OF 922

HNTB

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

5/8"REBAR VSE CONTROL CAP

AHEAD
DIRECTION

MACHUB

VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 8		SHEET 733	OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

200+00 201+00 202+00 203+00 204+00

STA 400+75

400+00

STA 12194+50

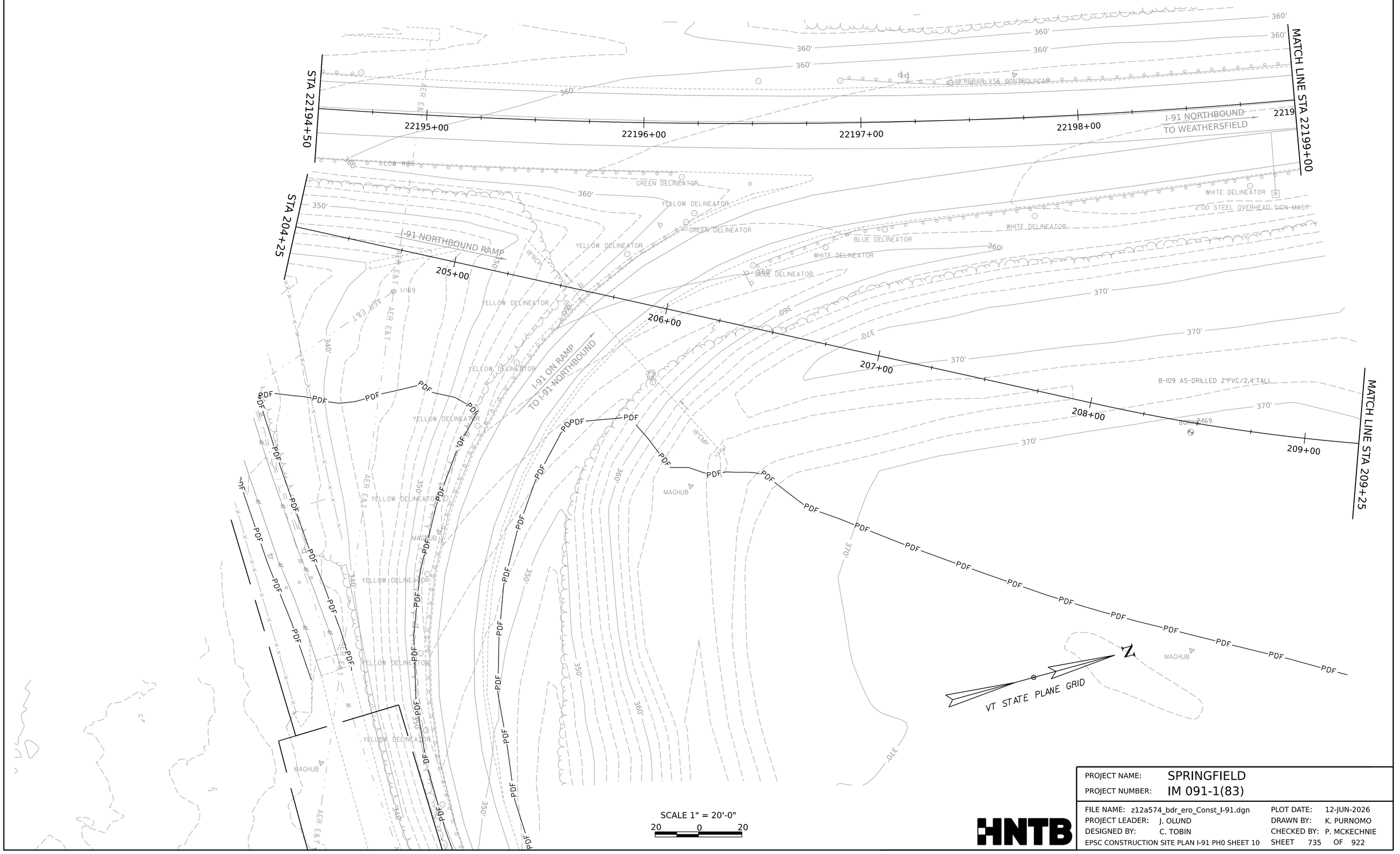
STA 22194+50

STA 204+25

B-12 AS-DRILLED
BORING

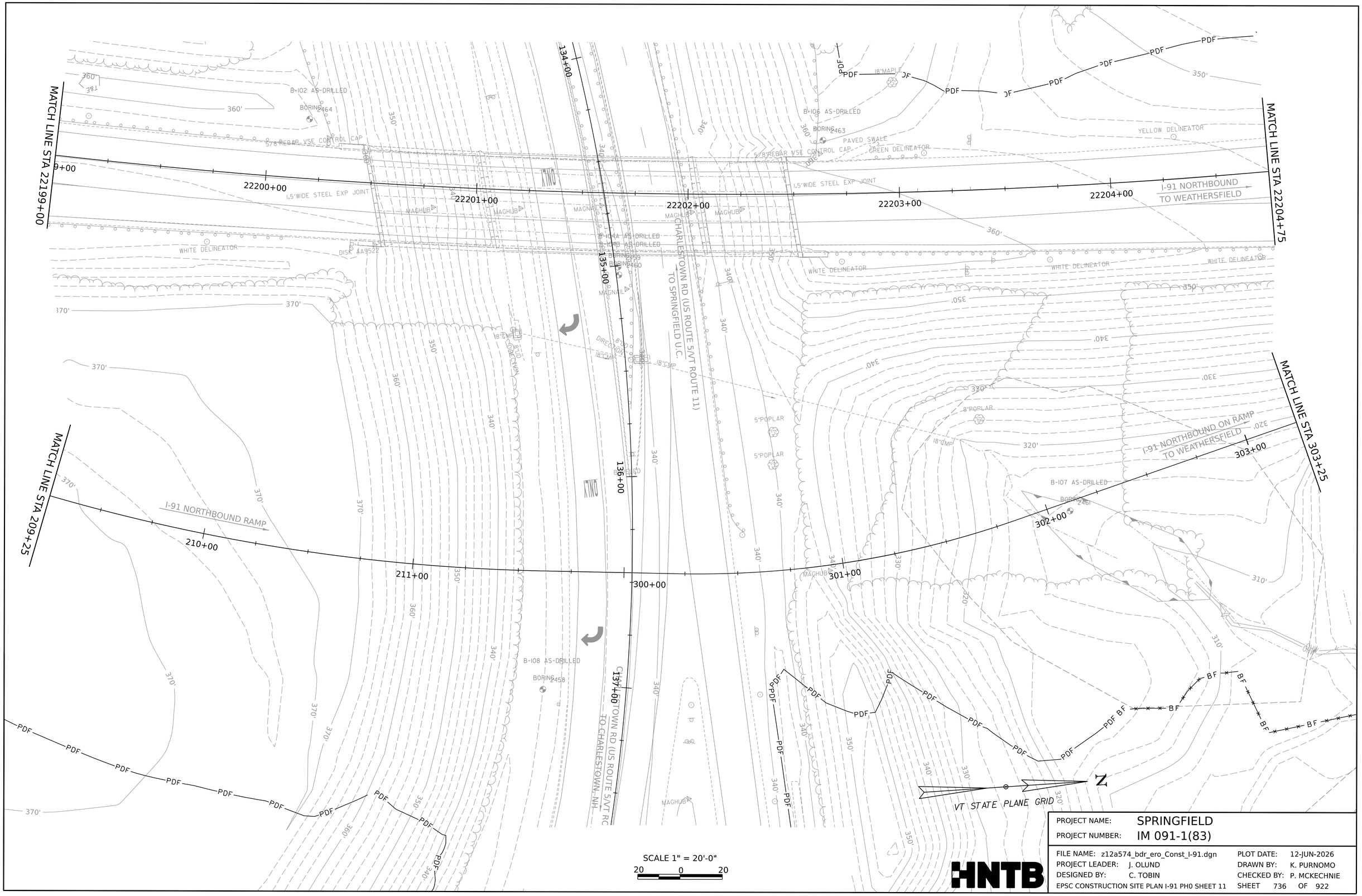
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 9		SHEET	734 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 10	SHEET 735 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 11		SHEET	736 OF 922

HNTB

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

I-91 NORTHBOUND ON-RAMP TO WEATHERSFIELD

I-91 NORTHBOUND TO WEATHERSFIELD

I-91 OFF RAMP TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

SPENCER BROOK

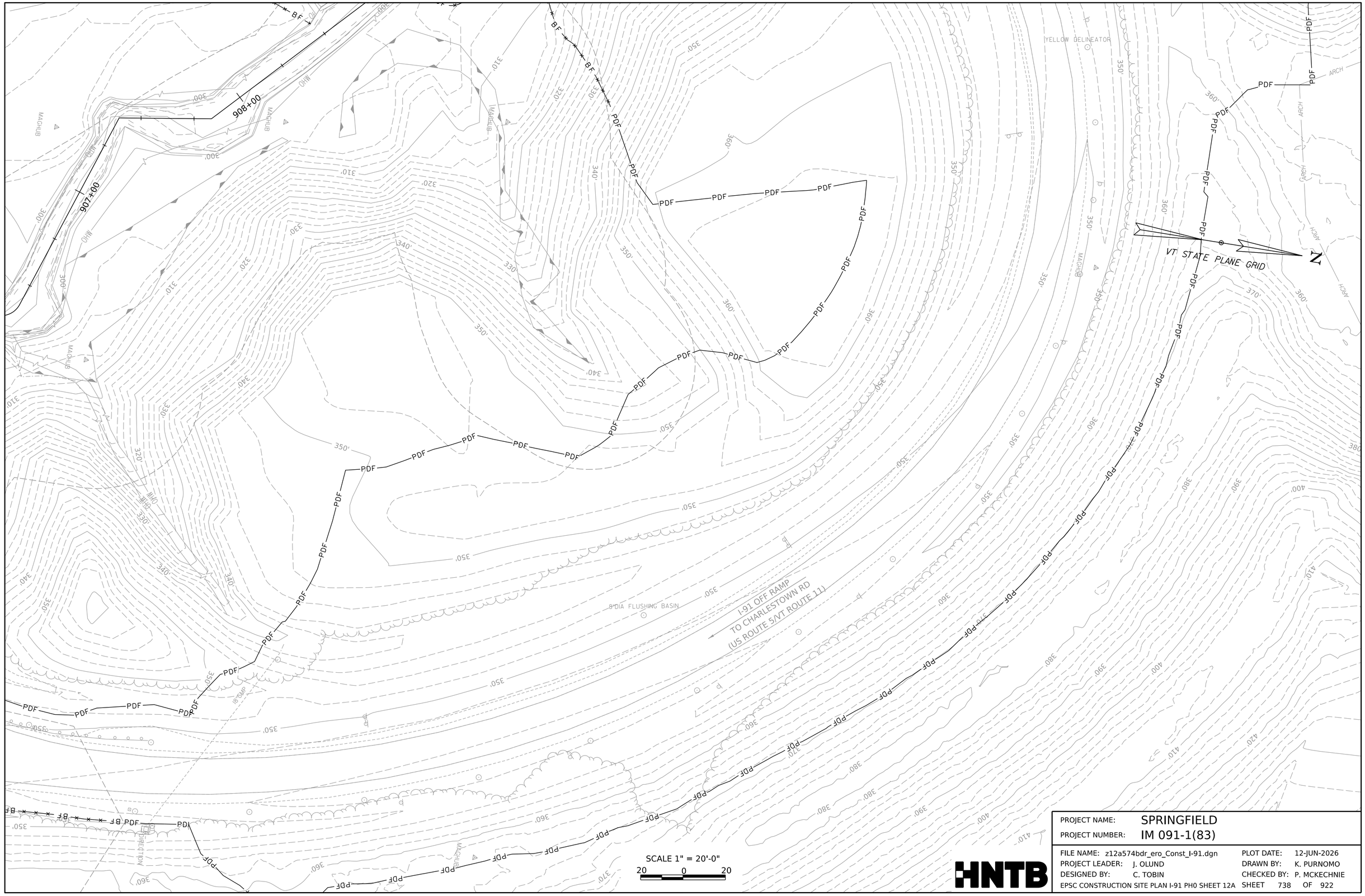
VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: K. PURNOMO
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 12	SHEET 737 OF 922

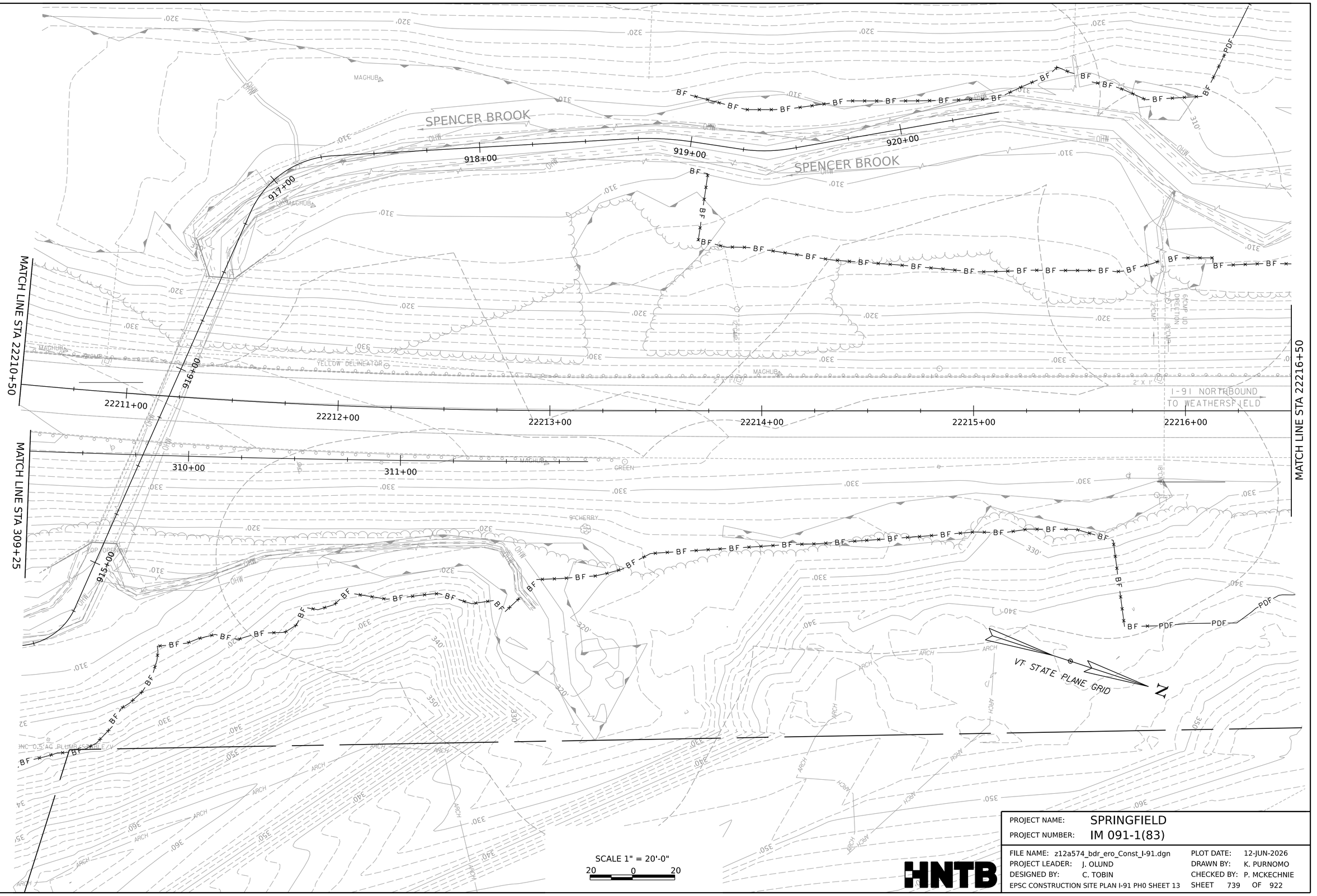
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 12A		SHEET	738 OF 922

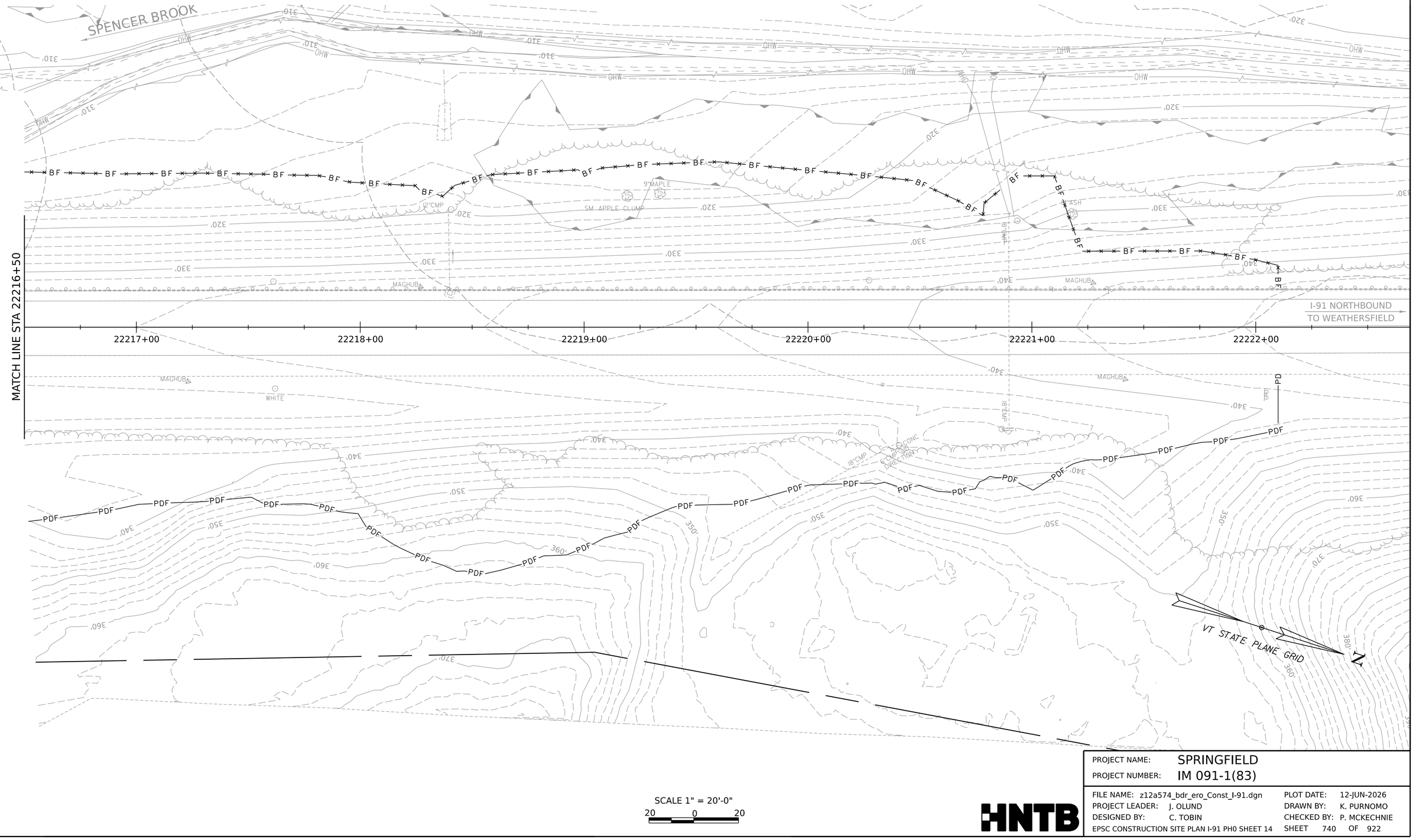
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 13		SHEET	739 OF 922

HNTB



SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 14		SHEET	740 OF 922

HNTB

N

VT STATE PLANE GRID

STA 400+75

STA 12194+50

MATCH LINE STA 12198+75

401+00

402+00

403+00

404+00

405+00

12195+00

12196+00

12197+00

12198+00

I-91 ON RAMP TO I-91 SOUTHBOUND

I-91 SOUTHBOUND TO ROCKINGHAM

WHITE DELINEATOR

YELLOW DELINEATOR

5/8"REBAR VSE CONTROL CAP

BEVELED

B-110 AS-DRILL BORING 431

AER E&T

PDF

PL

340'

350'

360'

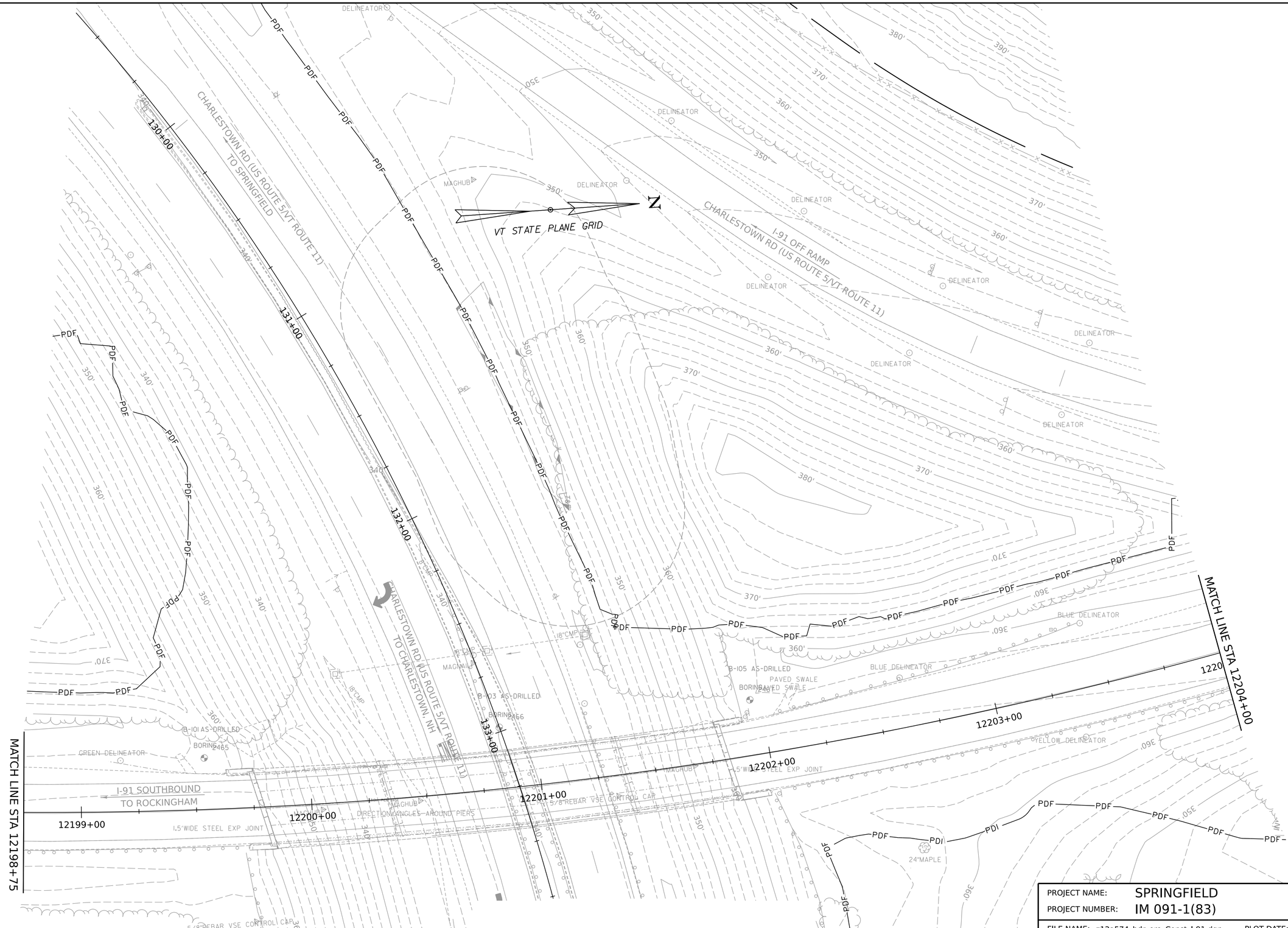
370'

SCALE 1" = 20'-0"

20 0 20

HNTB

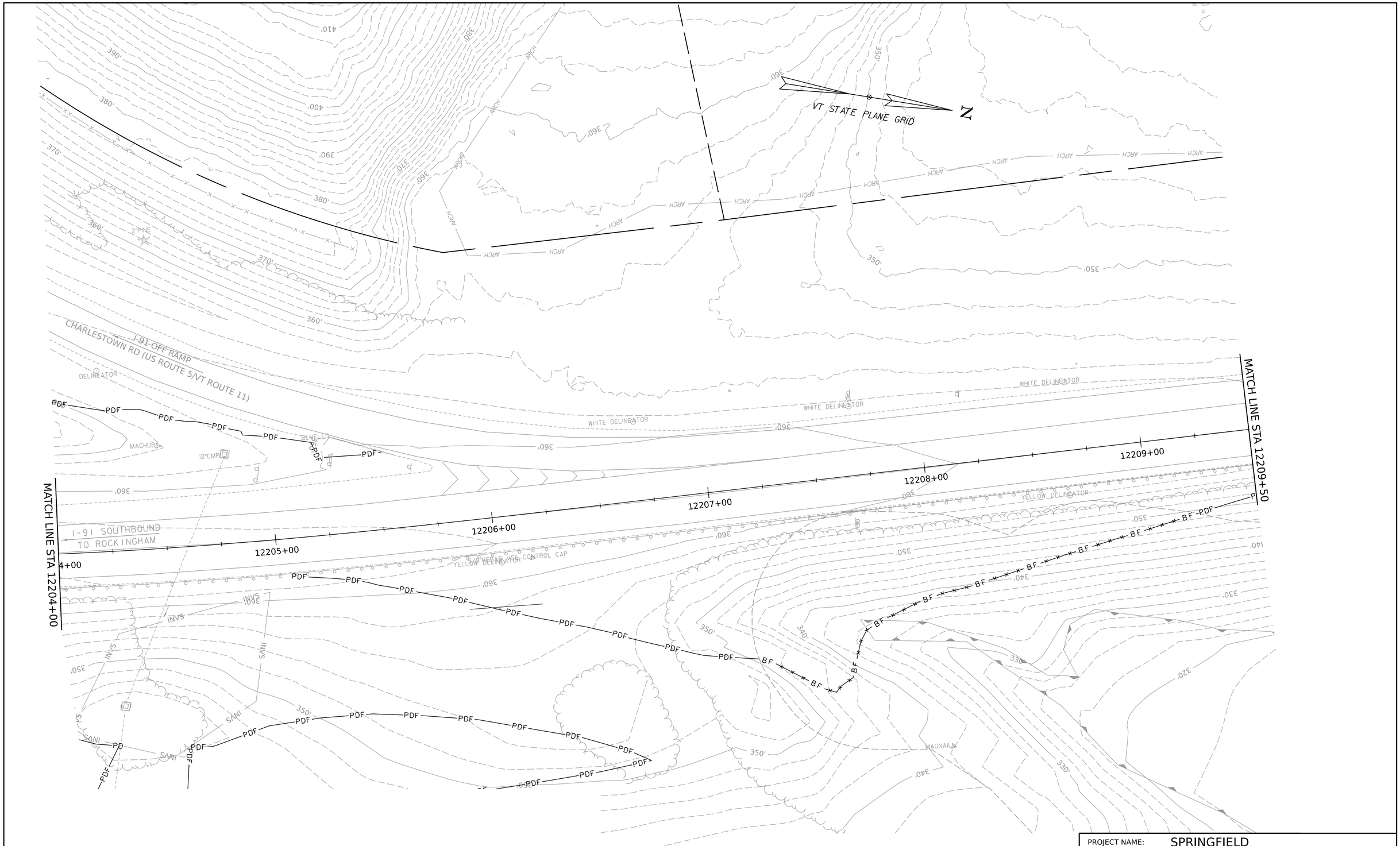
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 15		SHEET 741	OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 16		SHEET	742 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 17		SHEET	743 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

WHITE DELINEATOR

WHITE DELINEATOR

WHITE

GREEN

WHITE

YELLOW DELINEATOR

MAGHUB

MAGHUB

SPENCER BROOK

PDF

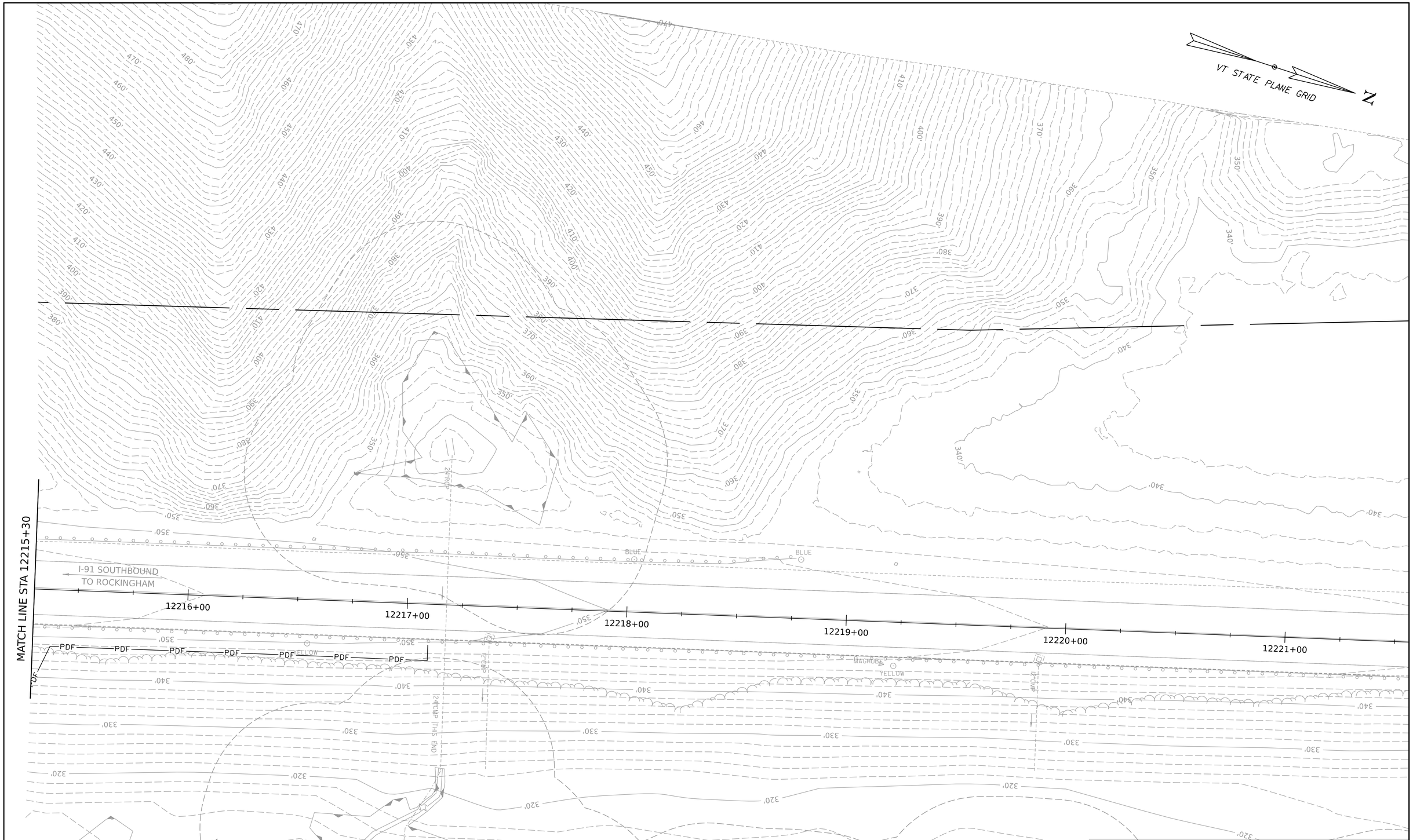
BF

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 18		SHEET	744 OF 922

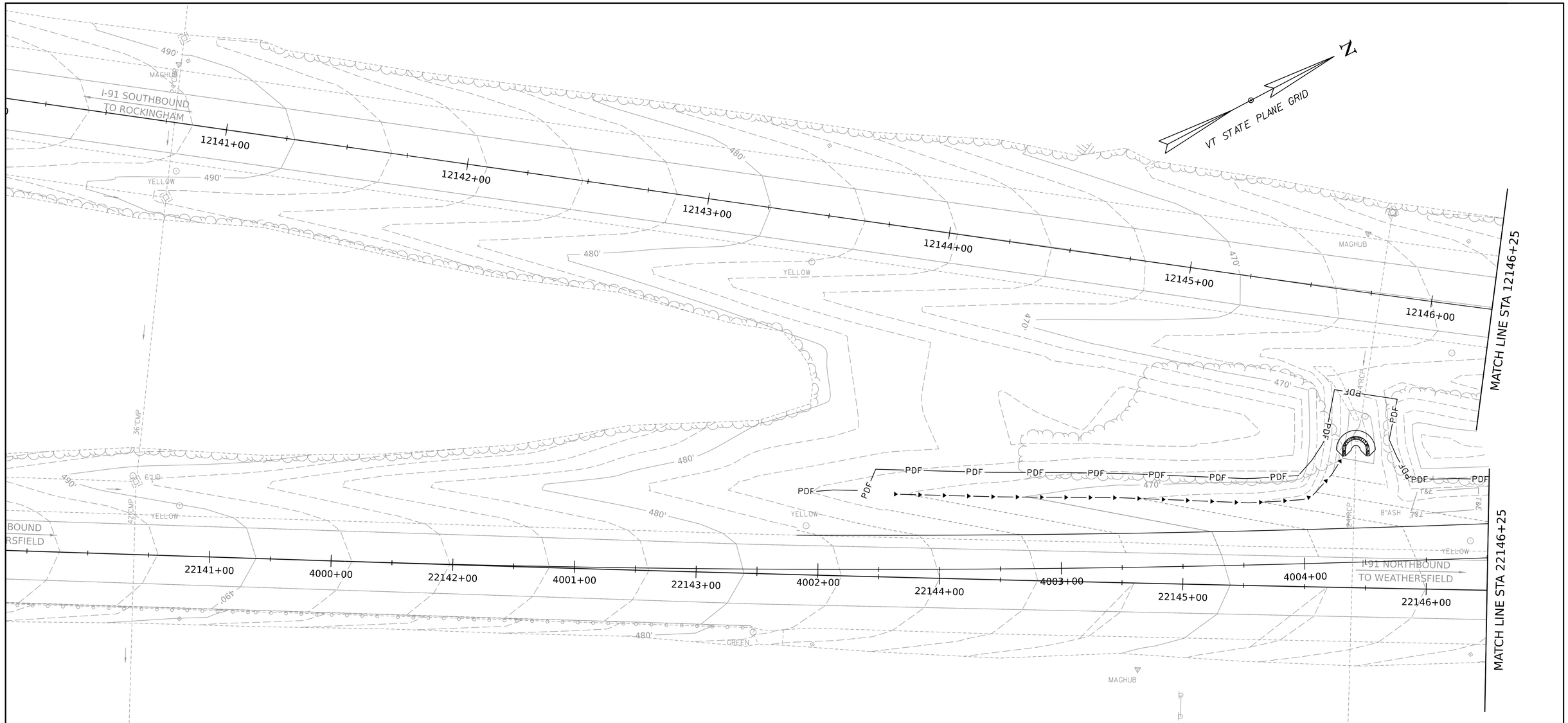
HNTB



HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	K. PURNOMO
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH0 SHEET 19		SHEET	745 OF 922

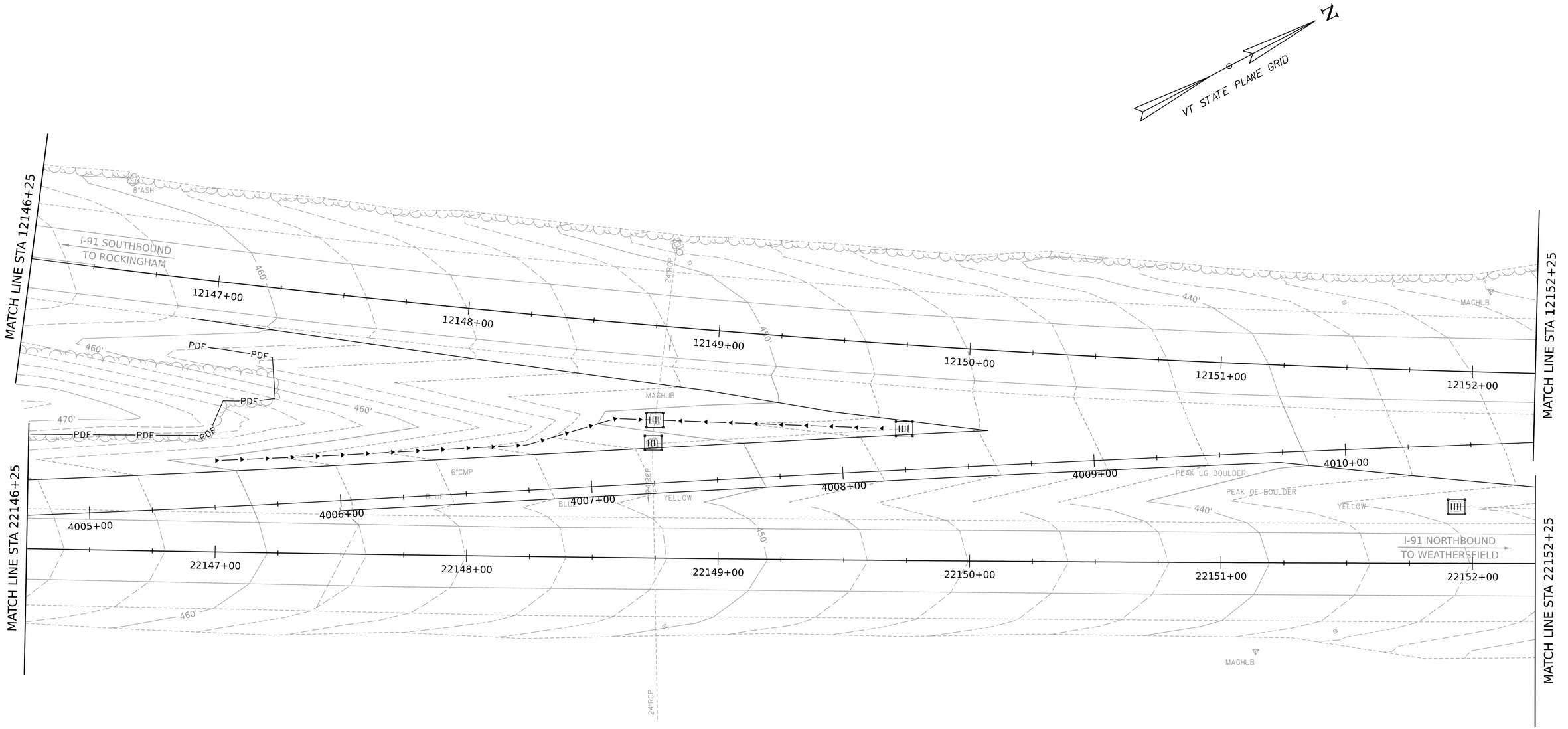


SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 1		SHEET 746	OF 922

HNTB

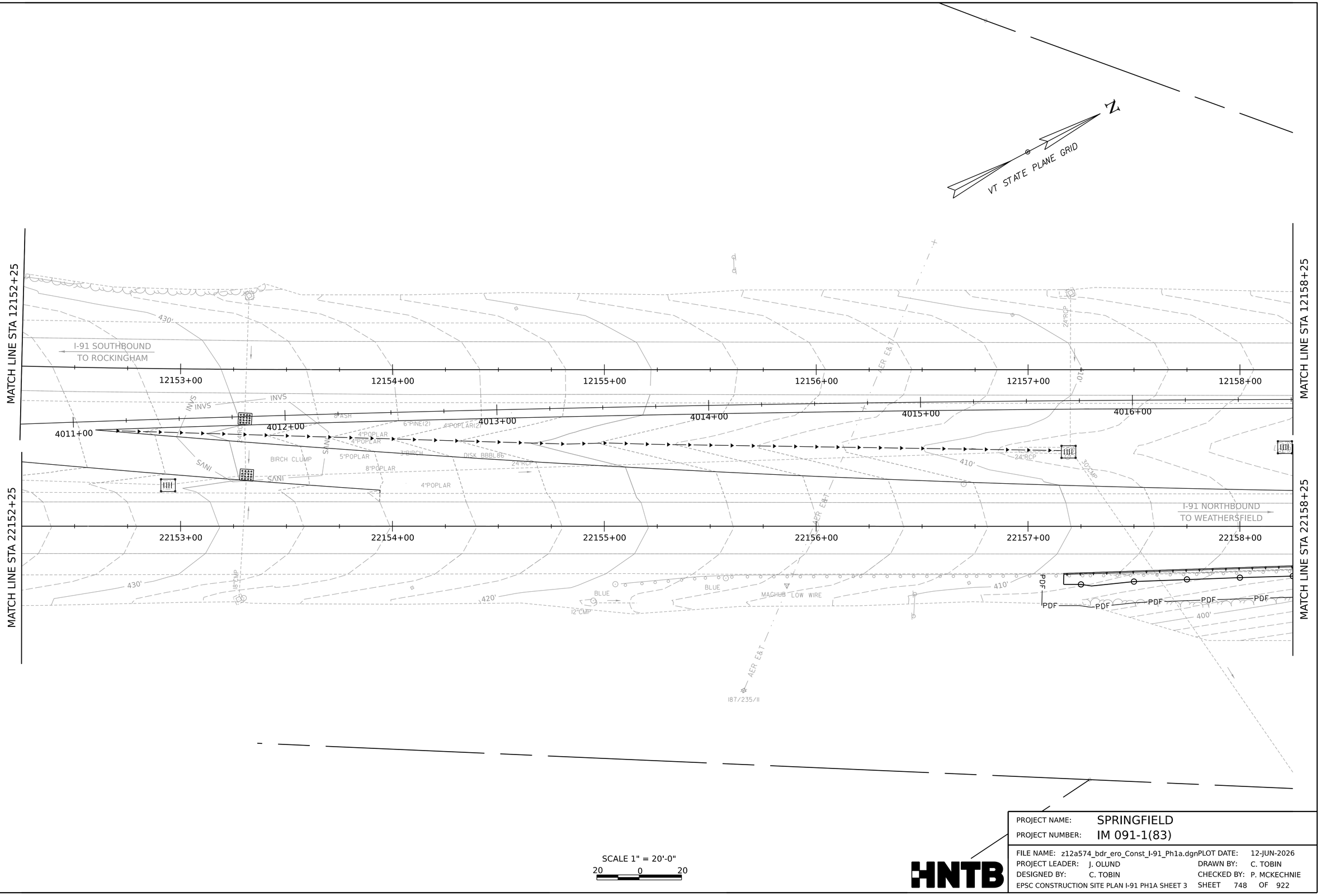


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 2		SHEET 747	OF 922

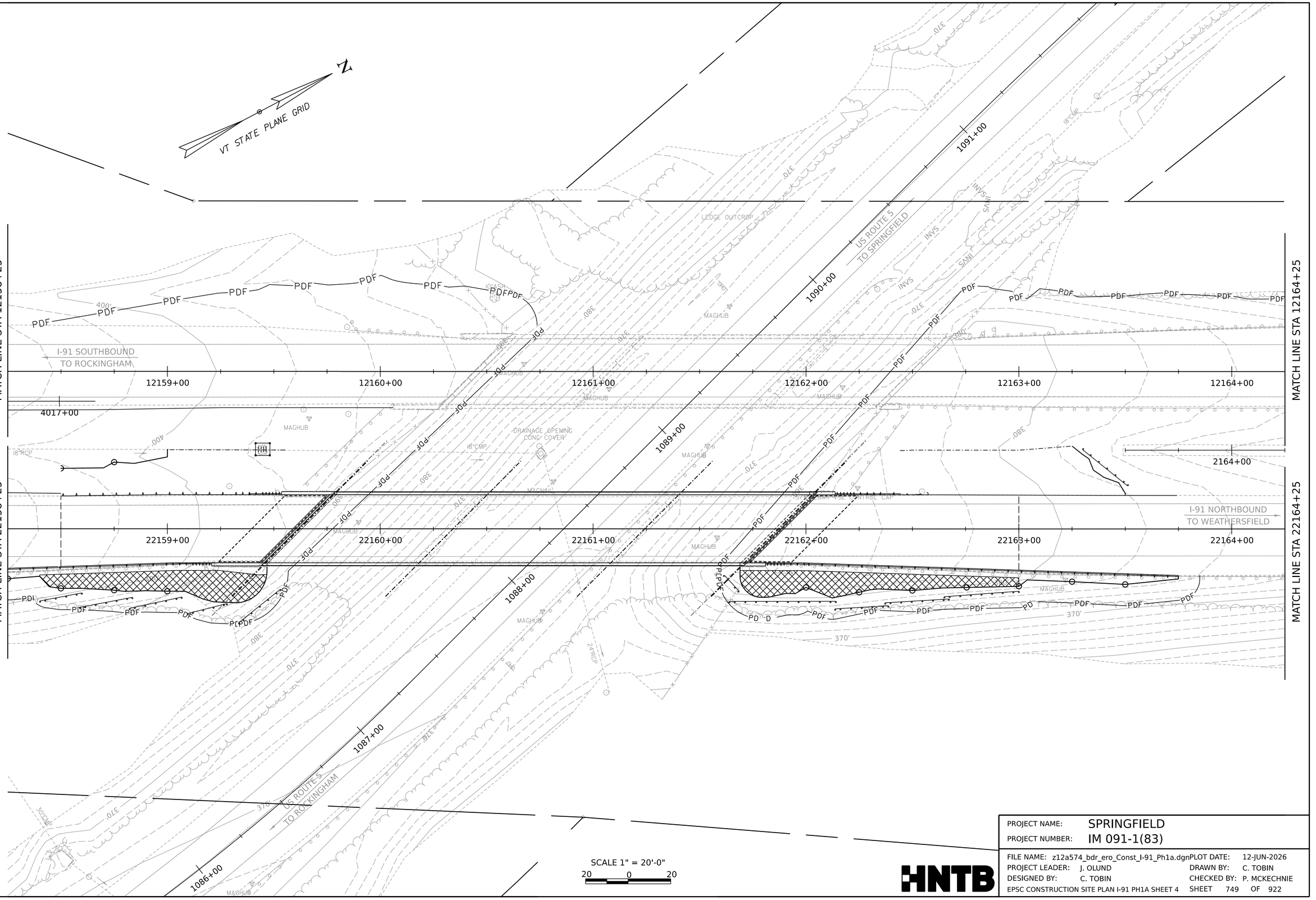


SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 3	SHEET 748 OF 922

HNTB


N
VT STATE PLANE GRID
MATCH LINE STA 12158+25
MATCH LINE STA 12164+25
MATCH LINE STA 22158+25
MATCH LINE STA 22164+25
I-91 SOUTHBOUND
TO ROCKINGHAM
I-91 NORTHBOUND
TO WEATHERSFIELD
US ROUTE 5
TO SPRINGFIELD
US ROUTE 5
TO ROCKINGHAM
12159+00
12160+00
12161+00
12162+00
12163+00
12164+00
4017+00
2164+00
22159+00
22160+00
22161+00
22162+00
22163+00
22164+00
1091+00
1090+00
1089+00
1088+00
1087+00
1086+00
LEDGE OUTCROP
DRAINAGE OPENING
CONC COVER
MAGHUB
PDF
INVS
18"RCP
18"CMP
24"RCP
30"CMP
400'
380'
370'
SCALE 1" = 20'-0"
20 0 20
HNTB
PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 4
PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 749 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

4023+00 4024+00 4025+00 4026+00 4027+00 4028+00

2165+00 2166+00 2167+00 2168+00 2169+00 2170+00

PDF

370' 360' 350'

24"CMP

18"CMP

5/8"REBAR VSE CONTROL CAP

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

I-91 NORTHBOUND
TO WEATHERSFIELD

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

MAGHUB

370' 360' 350' 310'

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 5		SHEET 750	OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

I-91 SOUTHBOUND
TO ROCKINGHAM

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

2171+00 2172+00 2173+00 2174+00 2175+00 2176+00

4029+00 4030+00 4031+00 4032+00 4033+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

I-91 NORTHBOUND
TO WEATHERSFIELD

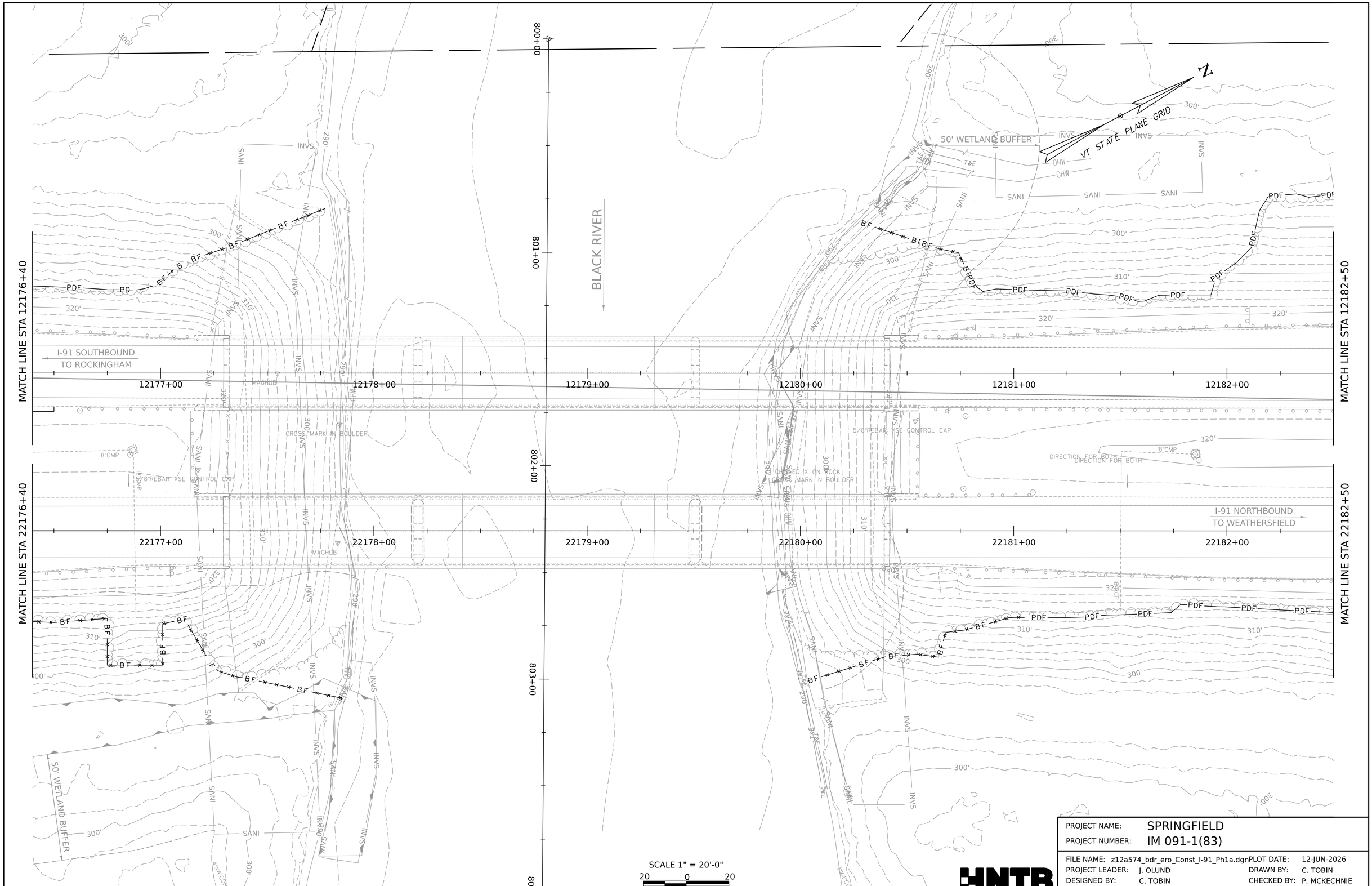
18"CMP

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 6	SHEET 751 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 7		SHEET 752	OF 922

HNTB

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

I-91 NORTHBOUND
TO WEATHERSFIELD

5/8"REBAR VSE CONTROL CAP

MAGHUB

VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 8		SHEET 753	OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 NORTHBOUND
TO WEATHERSFIELD

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

STA 400+75

400+00

STA 12194+50

STA 22194+50

200+00 201+00 202+00 203+00 204+00

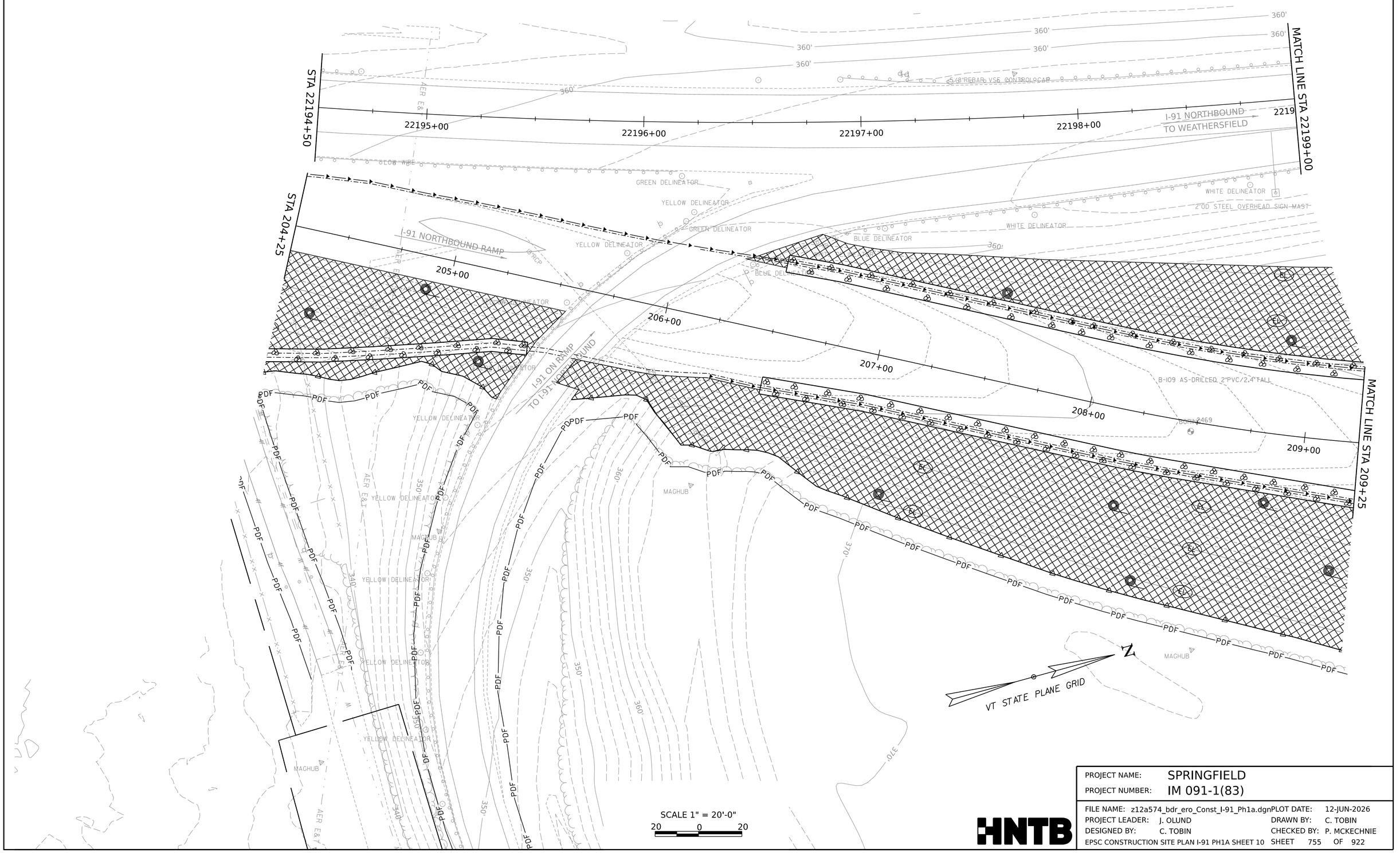
STA 204+25

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 9	SHEET 754 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 10		SHEET 755	OF 922

HNTB

MATCH LINE STA 209+25

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 303+25

I-91 NORTHBOUND RAMP

I-91 NORTHBOUND ON RAMP TO WEATHERSFIELD

I-91 NORTHBOUND TO WEATHERSFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD U.C.

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN, NH

B-I02 AS-DRILLED BORING 2464

B-I03 AS-DRILLED BORING 2463

B-I04A AS-DRILLED

B-I04B AS-DRILLED BORING 2460

B-I07 AS-DRILLED BORING 2461

B-I08 AS-DRILLED BORING 2458

5/8"REBAR VSE CONTROL CAP

DISK AA9522

1.5"WIDE STEEL EXP JOINT

WHITE DELINEATOR

YELLOW DELINEATOR

GREEN DELINEATOR

PAVED SWALE

18"MAPLE

5"POPLAR

8"POPLAR

18"CMP

8"CMP DIRECTION

50' WETLAND BUFFER

MAGHUB

MAGNAL

PDF

BF

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 11		SHEET 756	OF 922

HNTB

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

I-91 NORTHBOUND ON RAMP TO WESTHERSFIELD

I-91 NORTHBOUND TO WESTHERSFIELD

I-91 OFF RAMP TO CHARLESTOWN RD

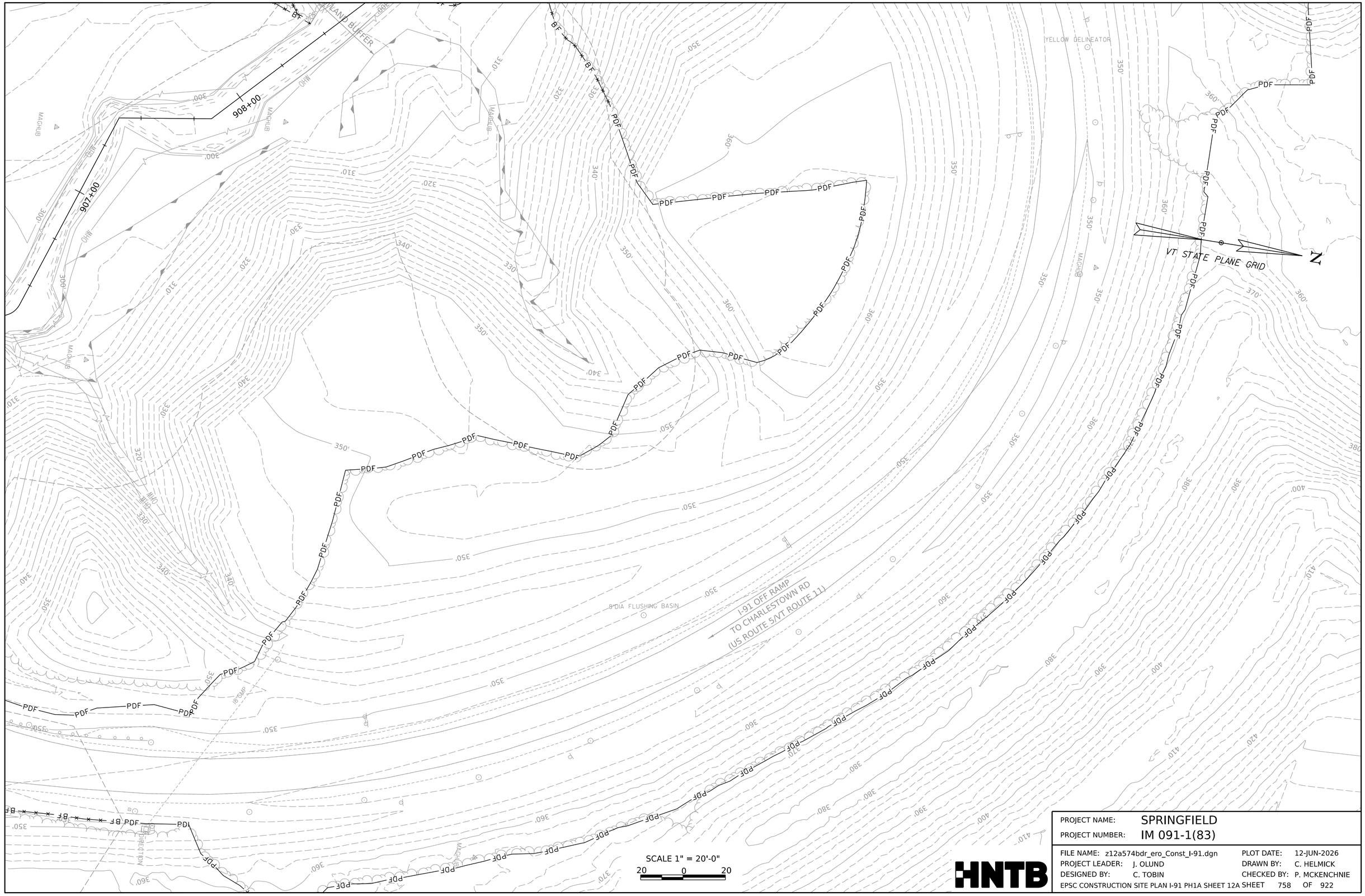
WETLAND BUFFER

VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 12		SHEET 757	OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKENCHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 12A		SHEET	758 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

SPENCER BROOK

50' WETLAND BUFFER

50' WETLAND BUFFER

I-91 NORTHBOUND
TO WEATHERSFIELD

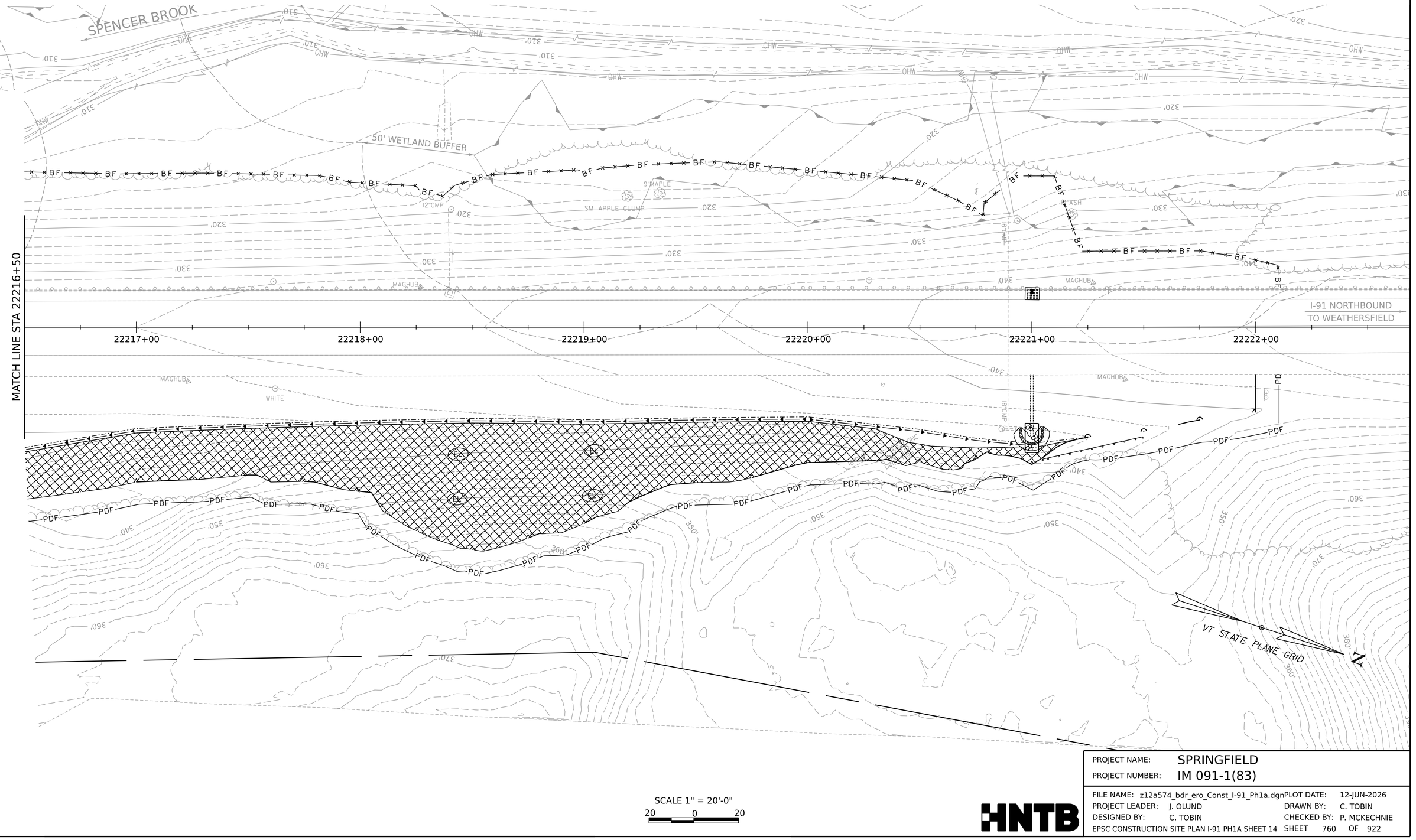
VT STATE PLANE GRID

N

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 13	SHEET 759 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 14		SHEET	760 OF 922

HNTB

N

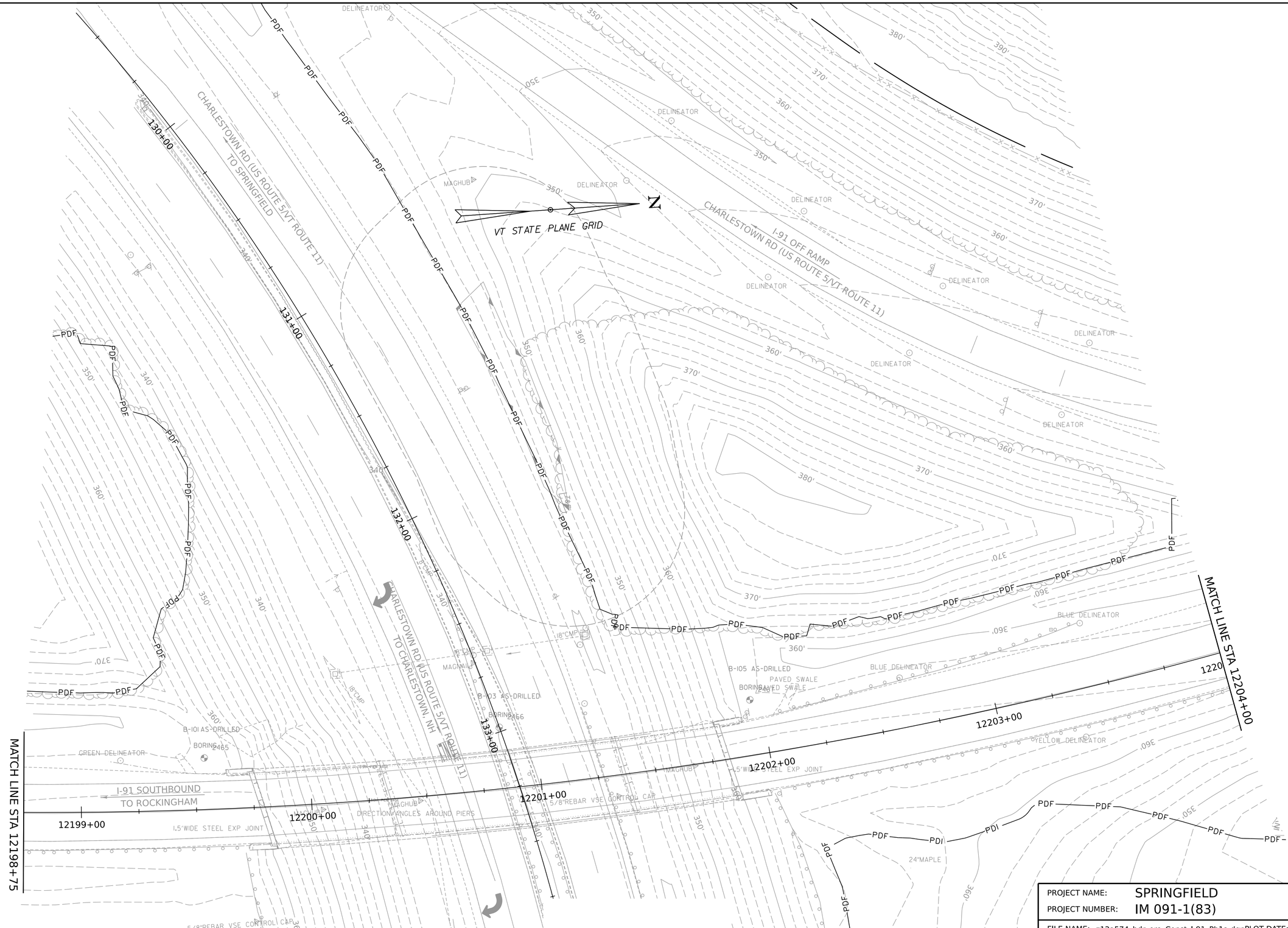
VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

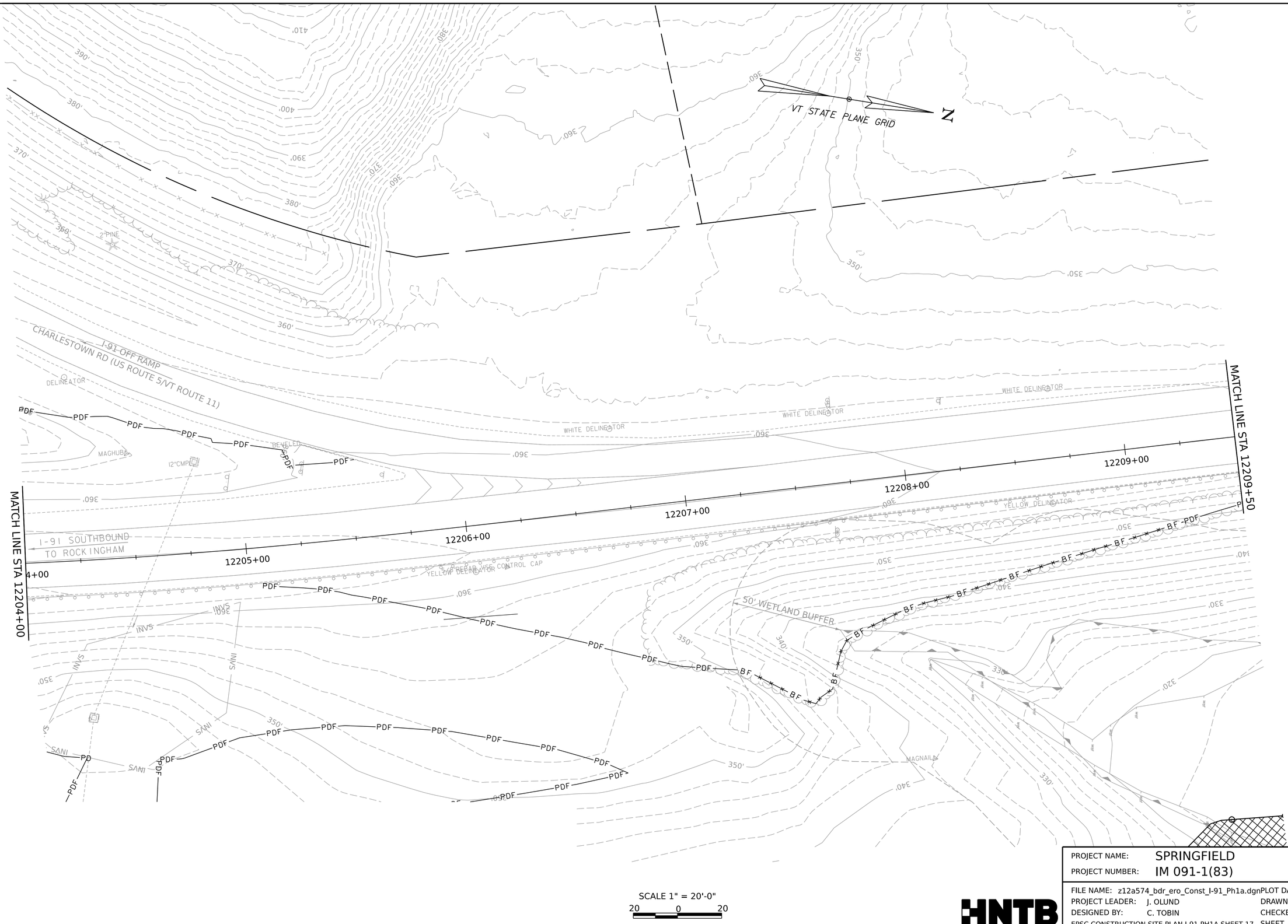
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 15	SHEET 761 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 16		SHEET 762	OF 922

HNTB



SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 17		SHEET	763 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

WHITE DELINEATOR

WHITE DELINEATOR

WHITE

GREEN

WHITE

YELLOW DELINEATOR

MAGHUB

MAGHUB

MAGHUB

SPENCER BROOK

50' WETLAND BUFFER

PDF

PD

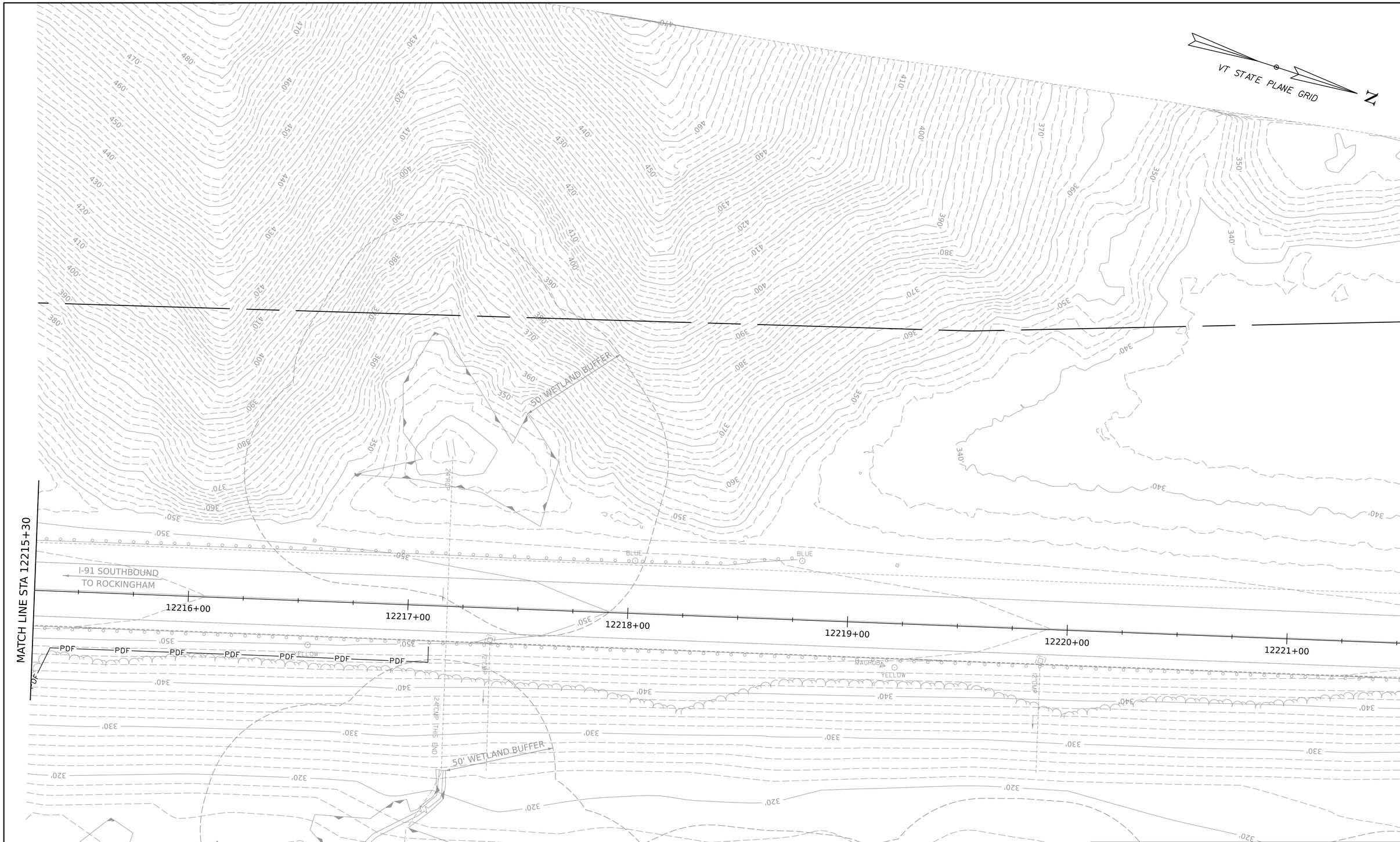
BF

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 18	SHEET 764 OF 922

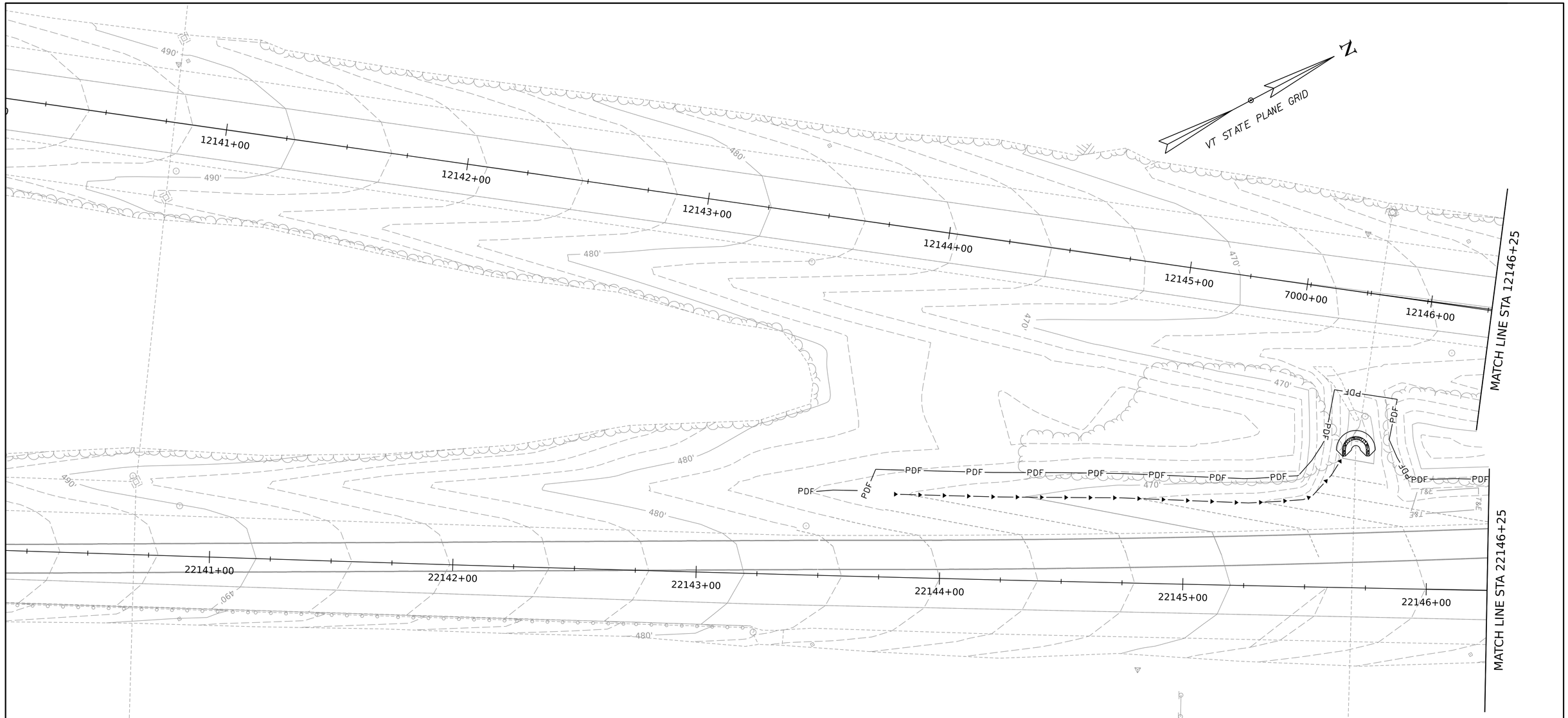
HNTB



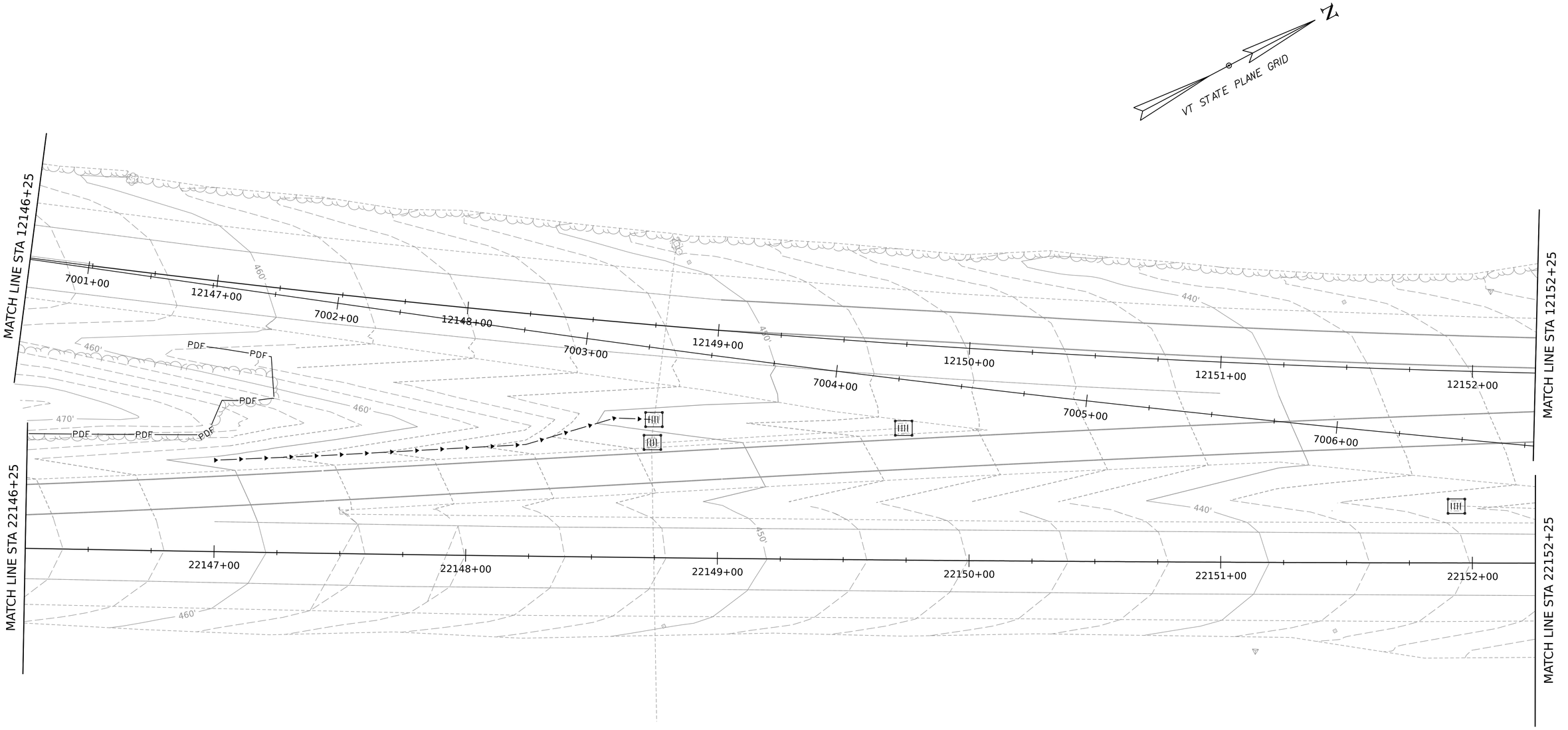
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1A SHEET 19		SHEET 765	OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 1		SHEET	766 OF 922

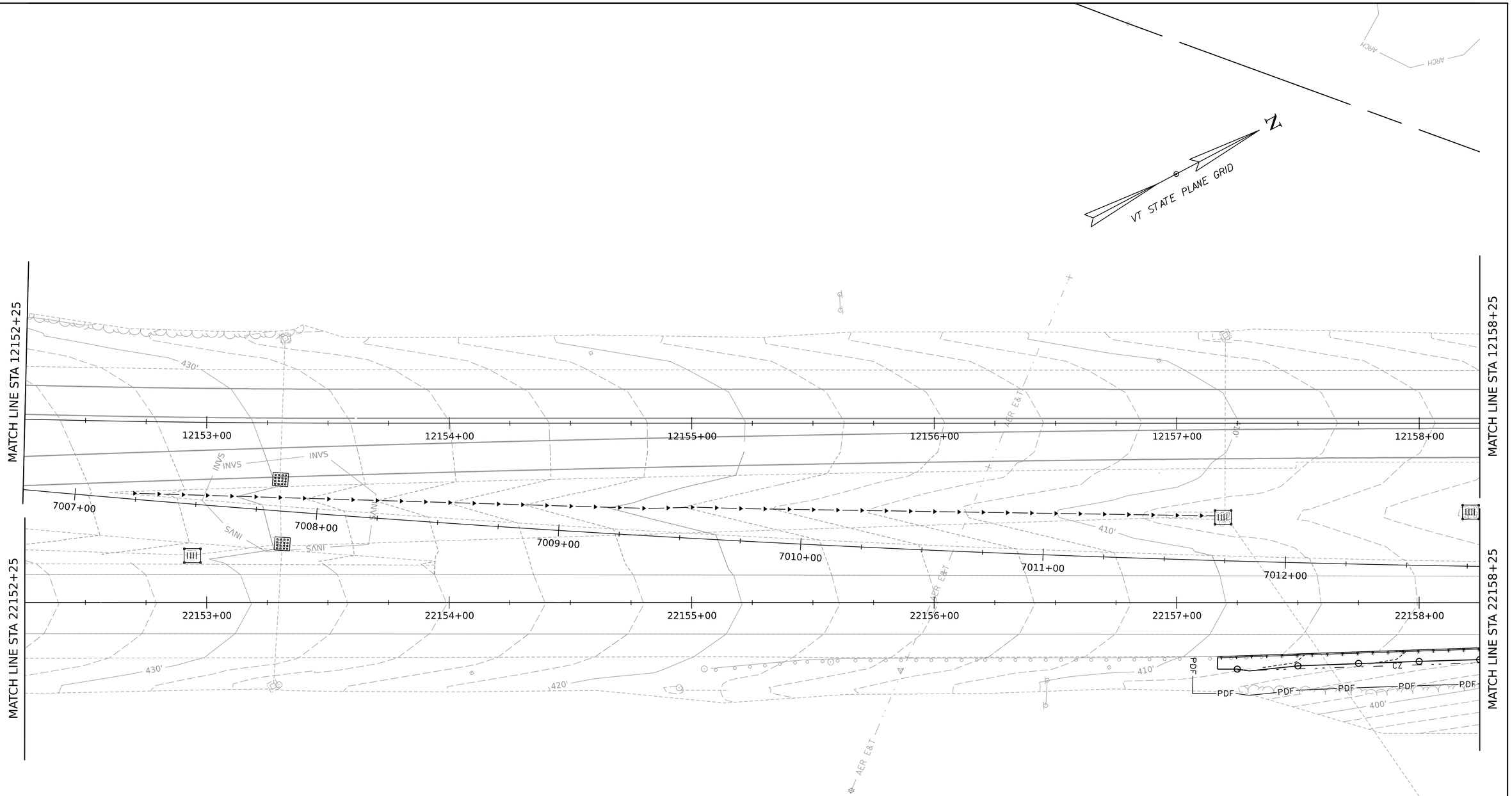


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 2		SHEET	767 OF 922



SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 3	SHEET 768 OF 922

N

VT STATE PLANE GRID

MATCH LINE STA 12158+25

MATCH LINE STA 22158+25

MATCH LINE STA 12164+25

MATCH LINE STA 22164+25

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

7013+00 7014+00

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

1091+00 1090+00 1089+00 1088+00 1087+00 1086+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 4	SHEET 769 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

7019+00 7020+00 7021+00 7022+00 7023+00 7024+00

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

PDF

370' 360' 350' 310'

ARCH

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 5	SHEET 770 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

12171+00 12172+00 12173+00 12174+00 7029+00 12175+00 7030+00 12176+00

7025+00 7026+00 7027+00 7028+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 6	SHEET 771 OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22176+40

MATCH LINE STA 22182+50

801+00

802+00

803+00

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

50' WETLAND BUFFER

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 7		SHEET 772	OF 922

HNTB

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

50' WETLAND BUFFER

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 8		SHEET 773	OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12188+60

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00 400+00 STA 400+75 STA 12194+50

MATCH LINE STA 22188+60

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00 STA 22194+50

200+00 201+00 202+00 203+00 204+00 STA 204+25

B-12 AS-DRILLED BORING

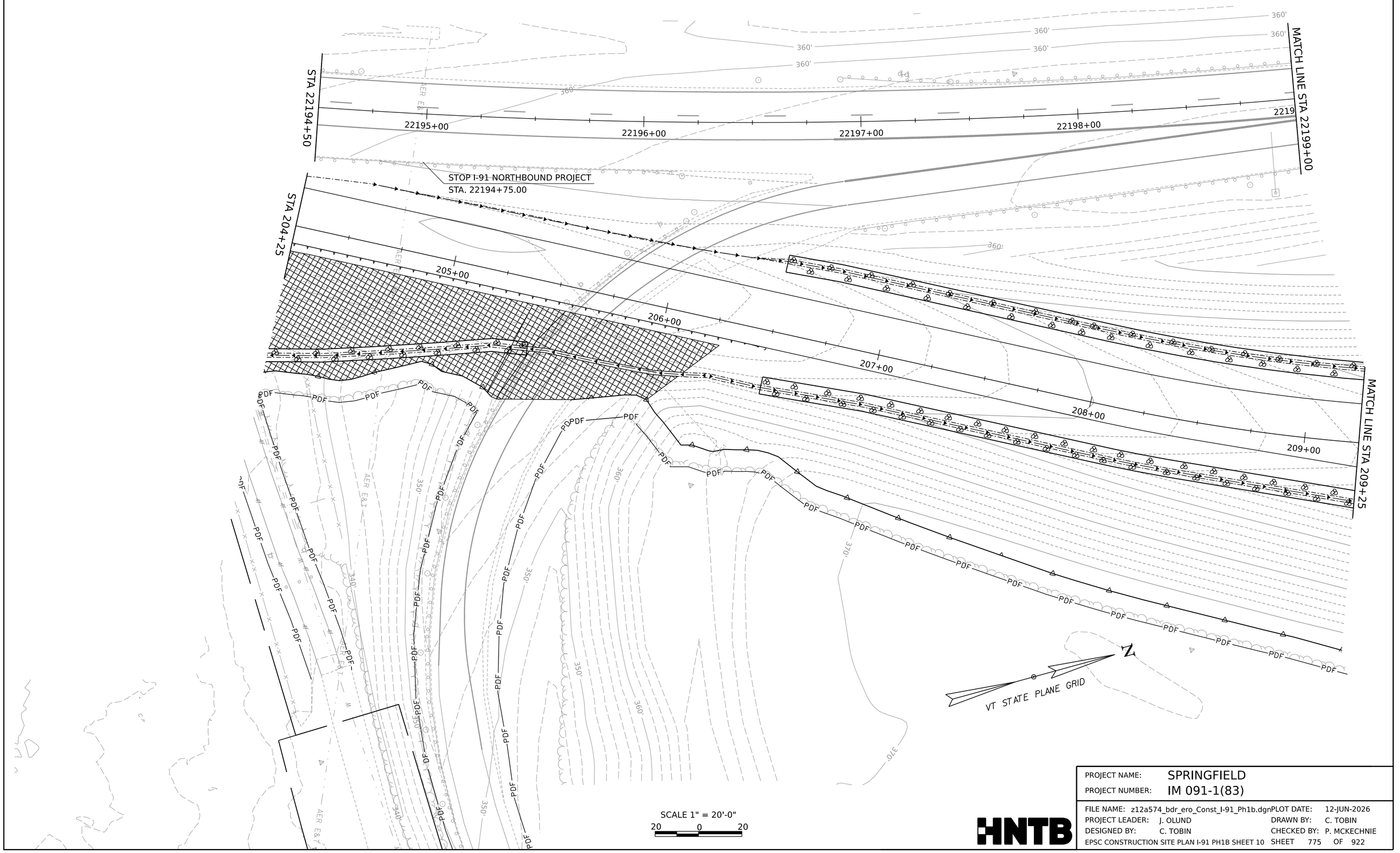
50' WETLAND BUFFER

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 9		SHEET	774 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 10	SHEET 775 OF 922

HNTB

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 209+25

MATCH LINE STA 303+25

134+00

135+00

136+00

137+00

300+00

301+00

302+00

303+00

210+00

211+00

22200+00

22201+00

22202+00

22203+00

22204+00

B-102 AS-DRILLED

BORING 2464

B-103 AS-DRILLED

BORING 2463

B-104A AS-DRILLED

B-104B AS-DRILLED

BORING 2460

50' WETLAND BUFFER

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 11		SHEET	776 OF 922

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 303+25

MATCH LINE STA 309+25

22205+00
22206+00
22207+00
22208+00
22209+00
22210+00
304+00
305+00
306+00
307+00
308+00
309+00
910+00
911+00
912+00
913+00
914+00
909+00

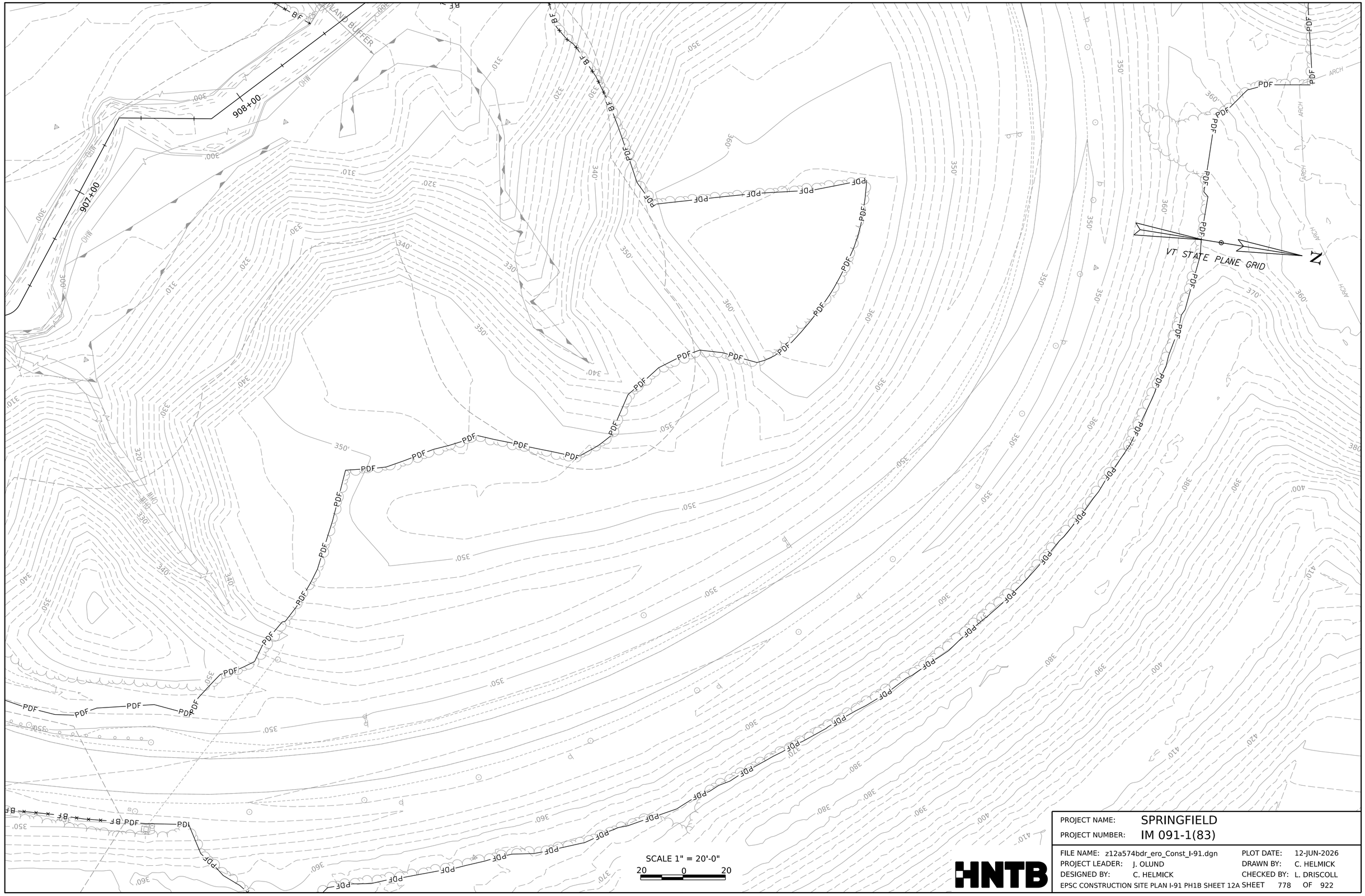
WETLAND BUFFER

VT STATE PLANE GRID

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 12	SHEET 777 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 12A		SHEET	778 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

50' WETLAND BUFFER

50' WETLAND BUFFER

50' WETLAND BUFFER

VT STATE PLANE GRID

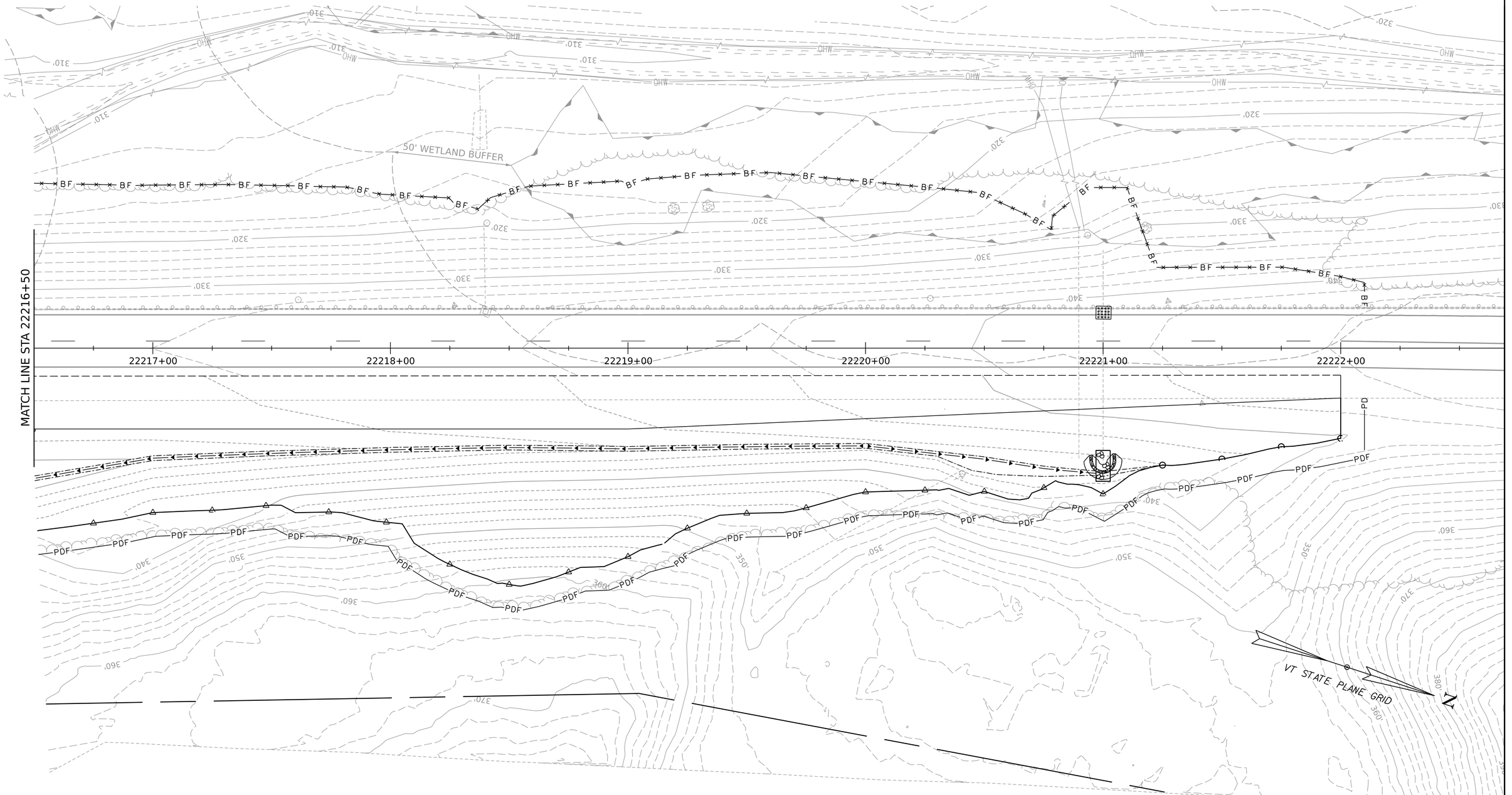
N

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 13	SHEET 779 OF 922

HNTB

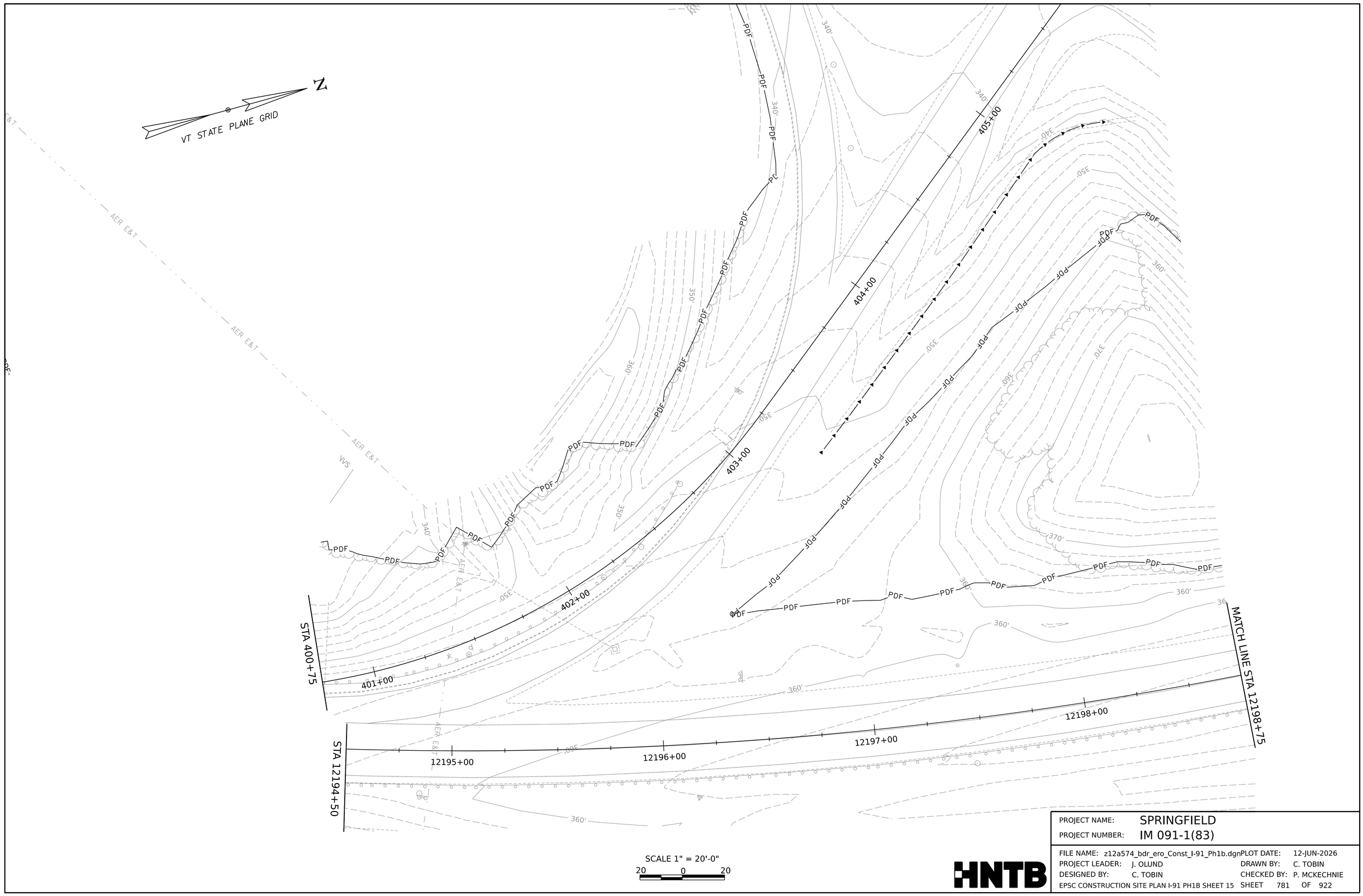


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 14	SHEET 780 OF 922



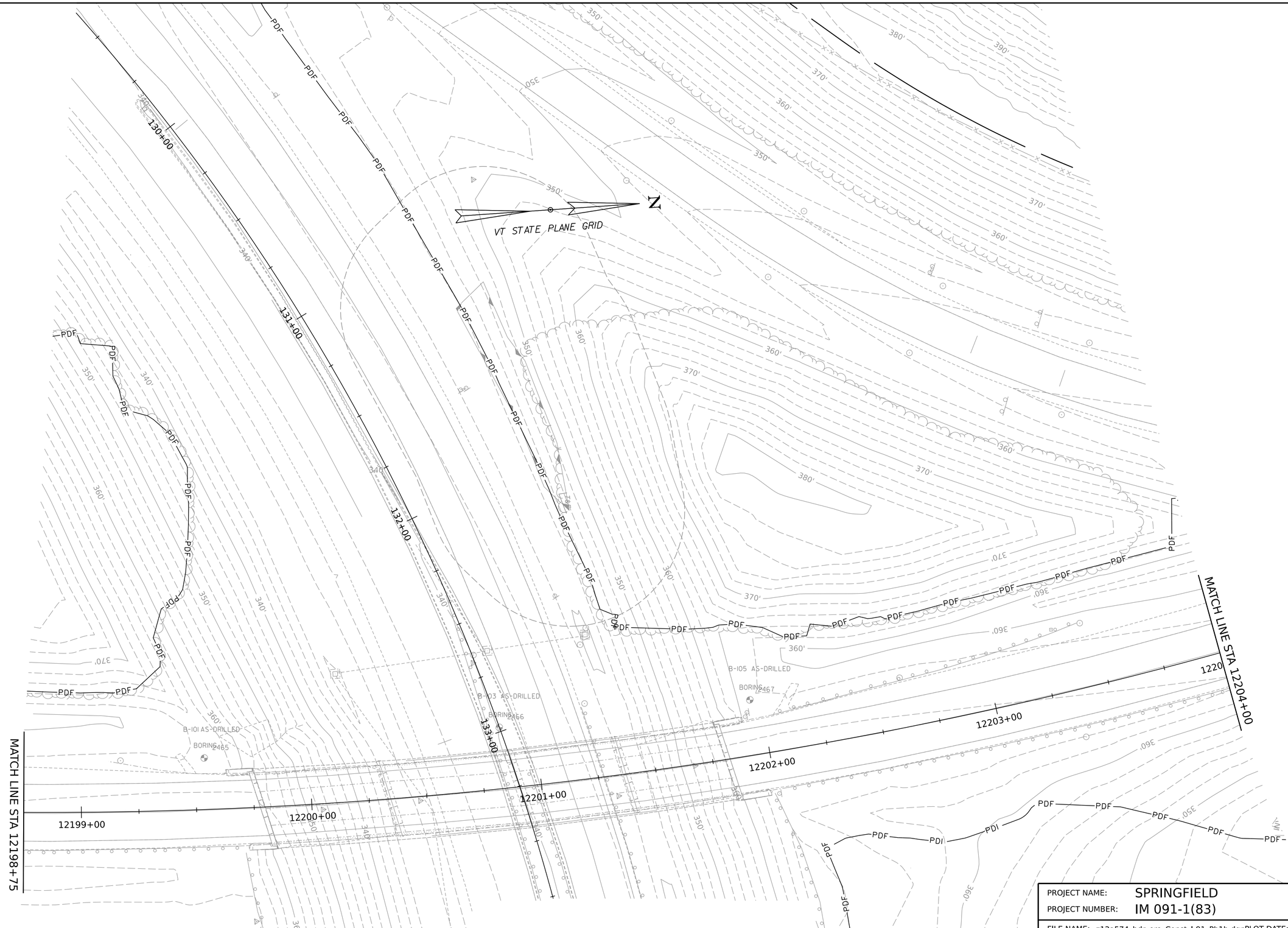
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 15		SHEET	781 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 16	SHEET 782 OF 922

HNTB

MATCH LINE STA 12204+00

MATCH LINE STA 12209+50

12204+00
12205+00
12206+00
12207+00
12208+00
12209+00

VT STATE PLANE GRID

N

50' WETLAND BUFFER

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 17		SHEET 783	OF 922

HNTB

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

VT STATE PLANE GRID

N

50' WETLAND BUFFER

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 18		SHEET	784 OF 922

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

50' WETLAND BUFFER

50' WETLAND BUFFER

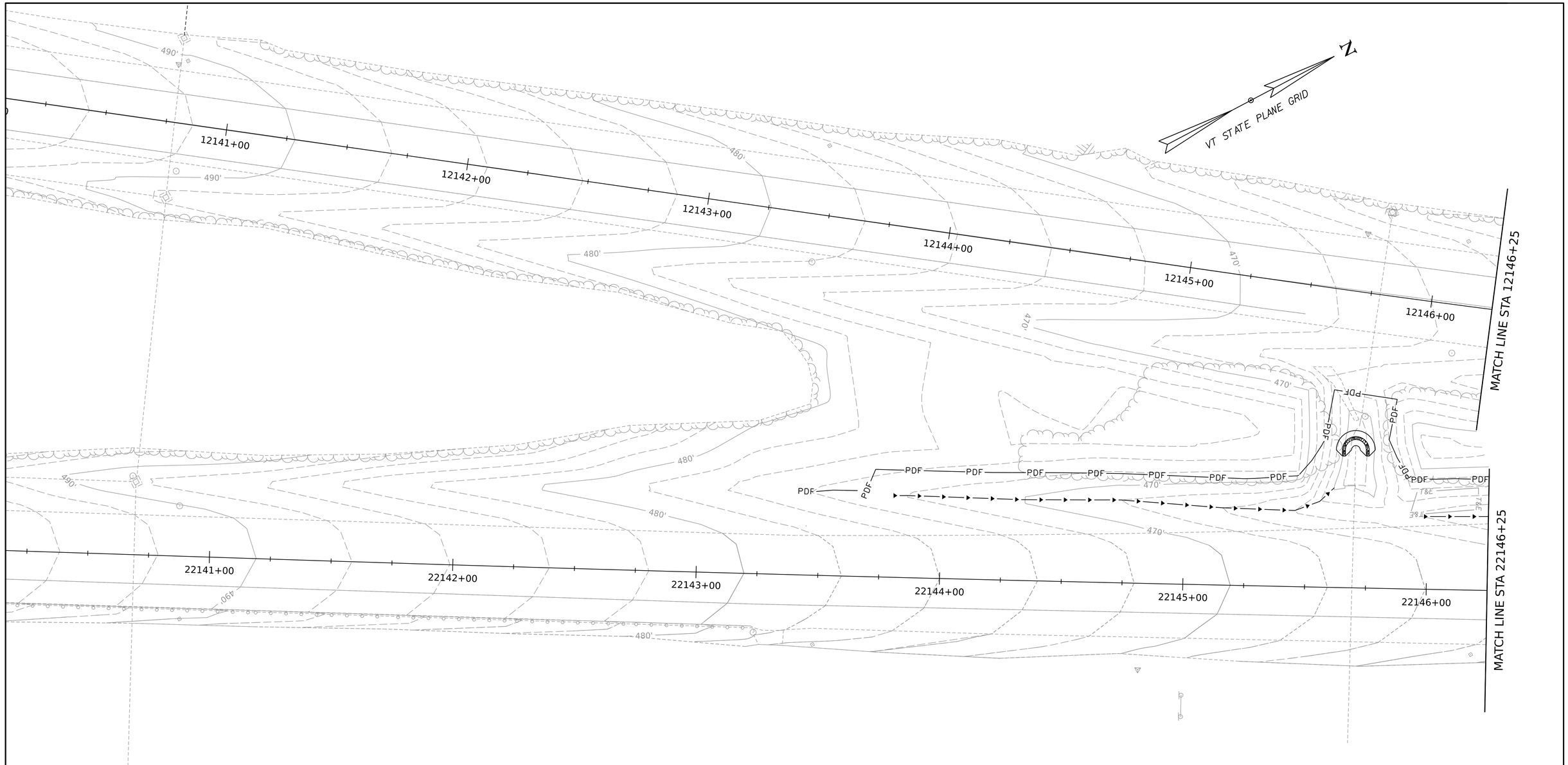
PDF PDF PDF PDF PDF PDF PDF PDF

SCALE 1" = 20'-0"

20 0 20

HNTB

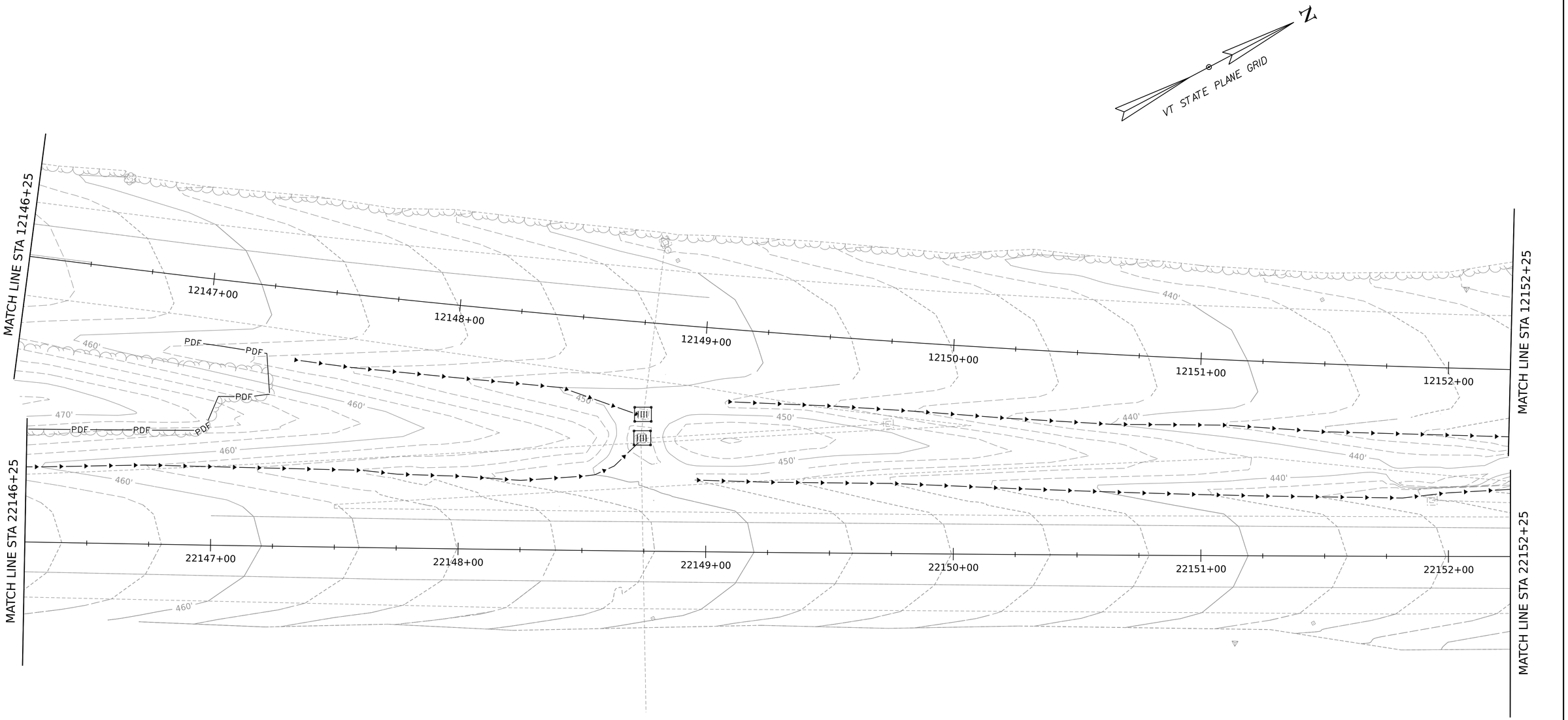
PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph1b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH1B SHEET 19		SHEET 785	OF 922



SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 1		SHEET	786 OF 922

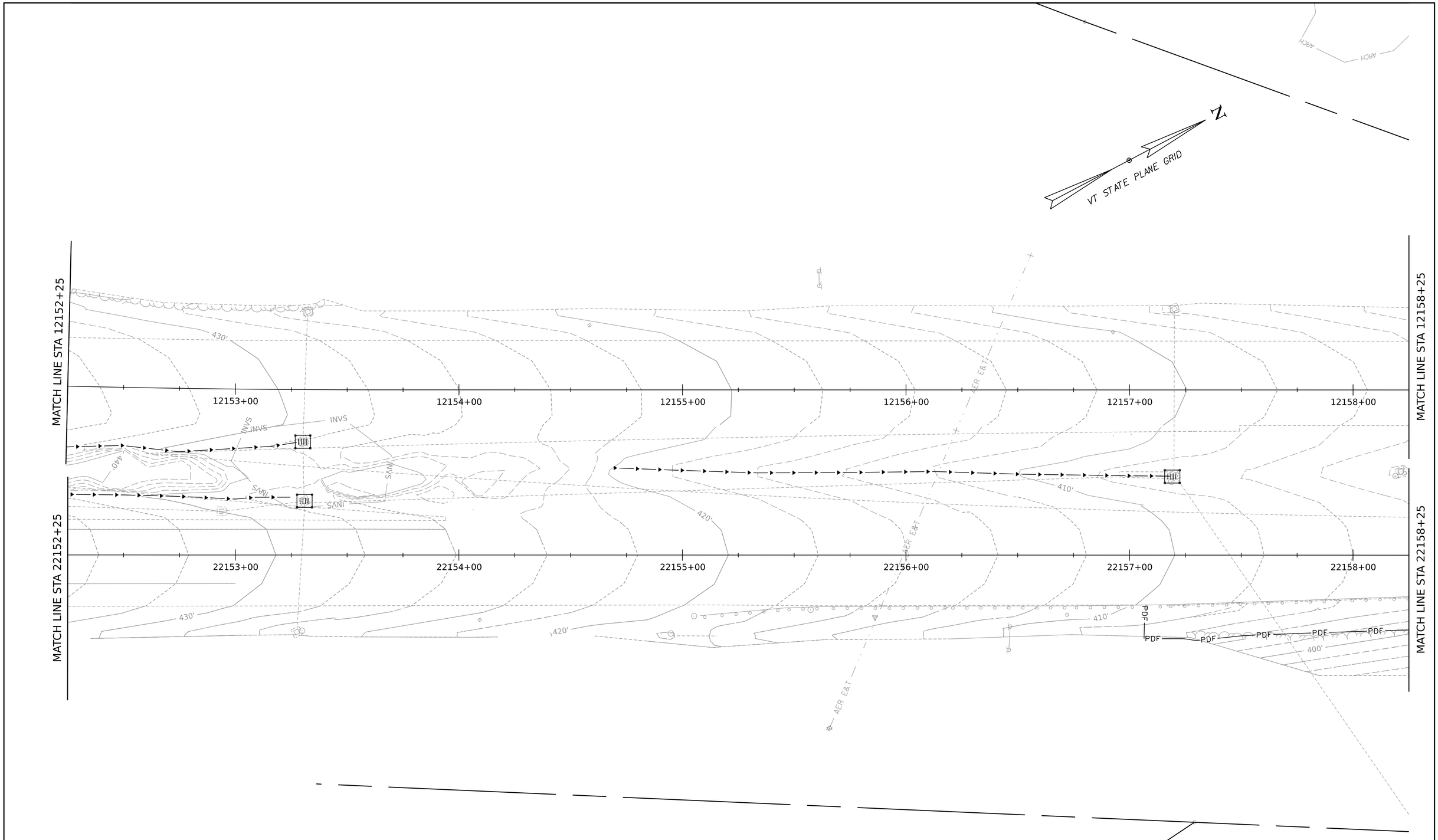


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 2		SHEET 787	OF 922



HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 3		SHEET 788	OF 922

N

VT STATE PLANE GRID

MATCH LINE STA 12158+25

MATCH LINE STA 12164+25

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

1091+00 1090+00 1089+00

MATCH LINE STA 22158+25

MATCH LINE STA 22164+25

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

1088+00 1087+00 1086+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 4		SHEET	789 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

5975+00 22165+00 5976+00 22166+00 5977+00 22167+00 5978+00 22168+00 5979+00 22169+00 5980+00 22170+00

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

PDF

370'

360'

350'

ARCH

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 5	SHEET 790 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

5981+00 5982+00 5983+00 5984+00 5985+00 5986+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 6		SHEET 791 OF 922	

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 22176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22182+50

800+00

801+00

802+00

803+00

12177+00

12178+00

12179+00

12180+00

12181+00

12182+00

22177+00

22178+00

22179+00

22180+00

22181+00

22182+00

5000+00

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 7	SHEET 792 OF 922

HNTB

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

5001+00 5002+00 5003+00 5004+00 5005+00 5006+00

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 8	SHEET 793 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

N

MATCH LINE STA 12188+60

12189+00
12190+00
12191+00
12192+00
12193+00
12194+00
400+00
STA 400+75
STA 12194+50

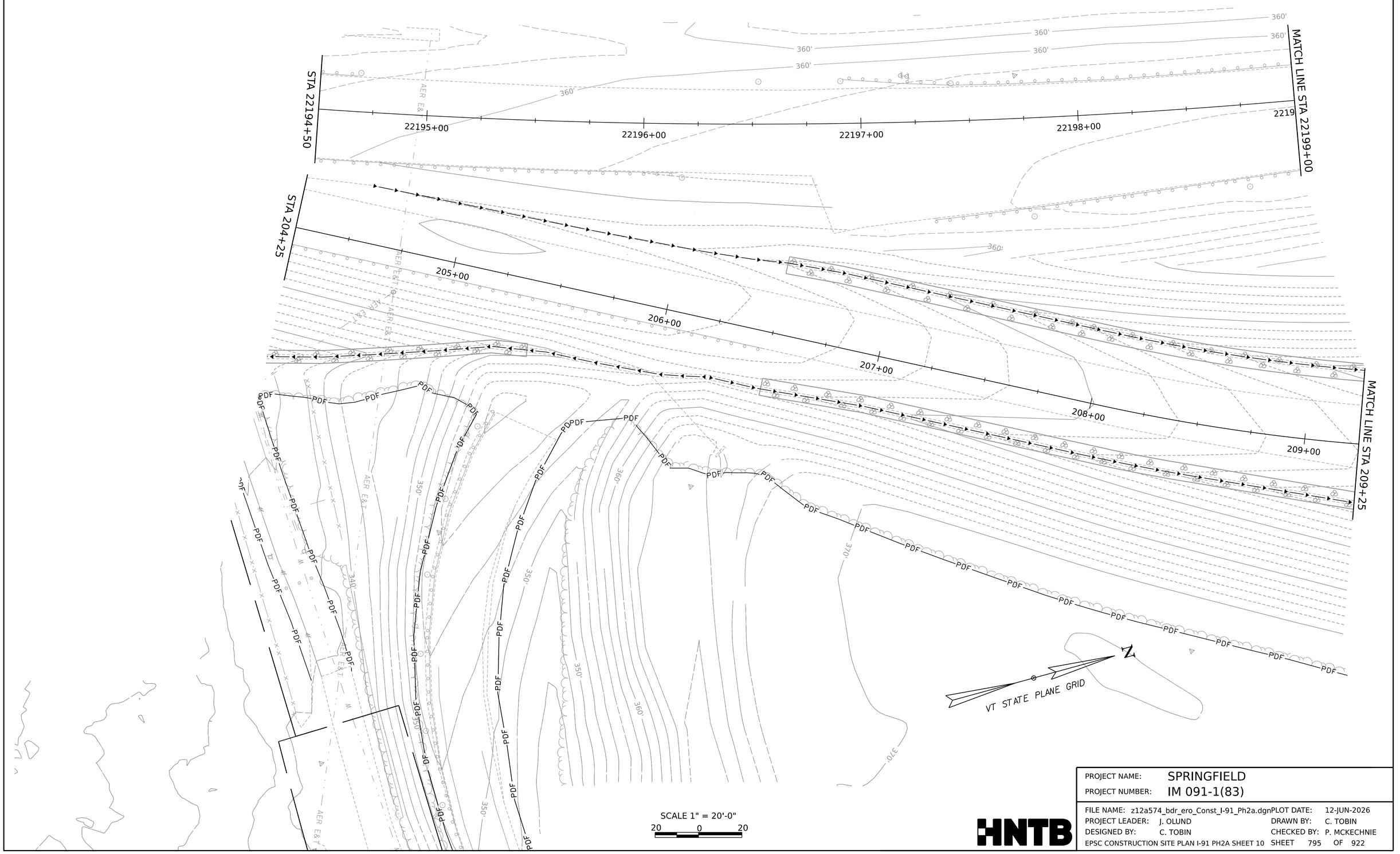
MATCH LINE STA 22188+60

22189+00
22190+00
22191+00
22192+00
22193+00
22194+00
5007+00
5008+00
5009+00
5010+00
200+00
201+00
202+00
203+00
204+00
STA 204+25

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 9		SHEET 794	OF 922



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 10		SHEET 795	OF 922

MATCH LINE STA 209+25

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 303+25

B-102 AS-DRILLED
BORING 2464

B-103 AS-DRILLED
BORING 2463

B-104A AS-DRILLED
B-104B AS-DRILLED
BORING 2460

SCALE 1" = 20'-0"
20 0 20

VT STATE PLANE GRID

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 11	SHEET 796 OF 922

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 303+25

MATCH LINE STA 309+25

22205+00
22206+00
22207+00
22208+00
22209+00
22210+00
304+00
305+00
306+00
307+00
308+00
309+00
910+00
911+00
912+00
913+00
914+00
909+00
6006+00
6007+00

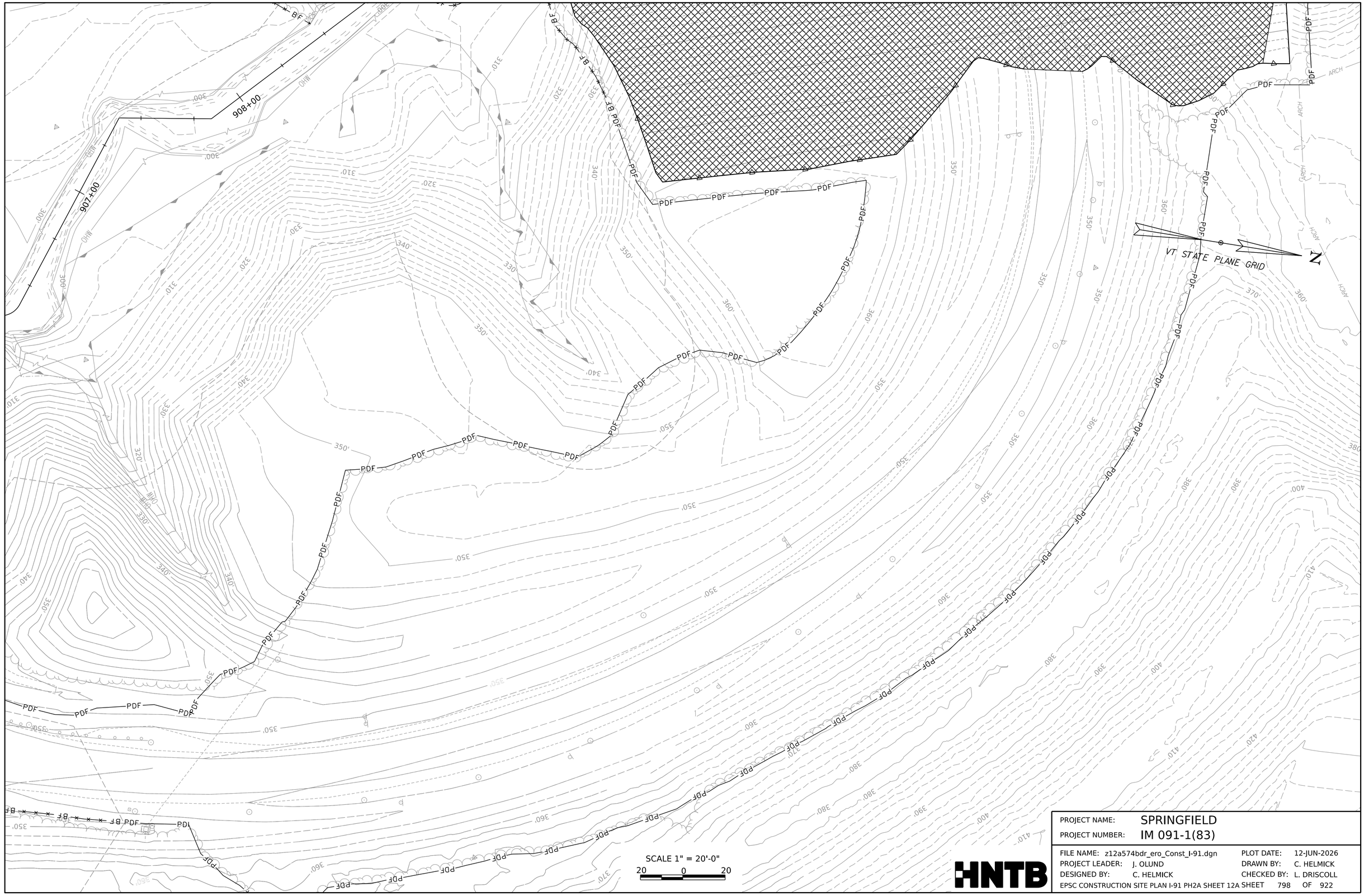
VT STATE PLANE GRID

N

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 12	SHEET 797 OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 12A		SHEET	798 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

6009+00
6010+00
6011+00
6012+00
6013+00
6014+00
916+00
915+00
917+00
918+00
919+00
920+00
22211+00
22212+00
22213+00
22214+00
22215+00
22216+00
310+00
311+00

BF
PDF
OHW
ARCH

VT STATE PLANE GRID
N

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 13	SHEET 799 OF 922

SPENCER BROOK

MATCH LINE STA 22216+50

22217+00 22218+00 22219+00 22220+00 22221+00 22222+00

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 14	SHEET 800 OF 922

N

VT STATE PLANE GRID

AER E&T

STA 400+75

401+00

402+00

403+00

404+00

405+00

STA 12194+50

12195+00

12196+00

12197+00

12198+00

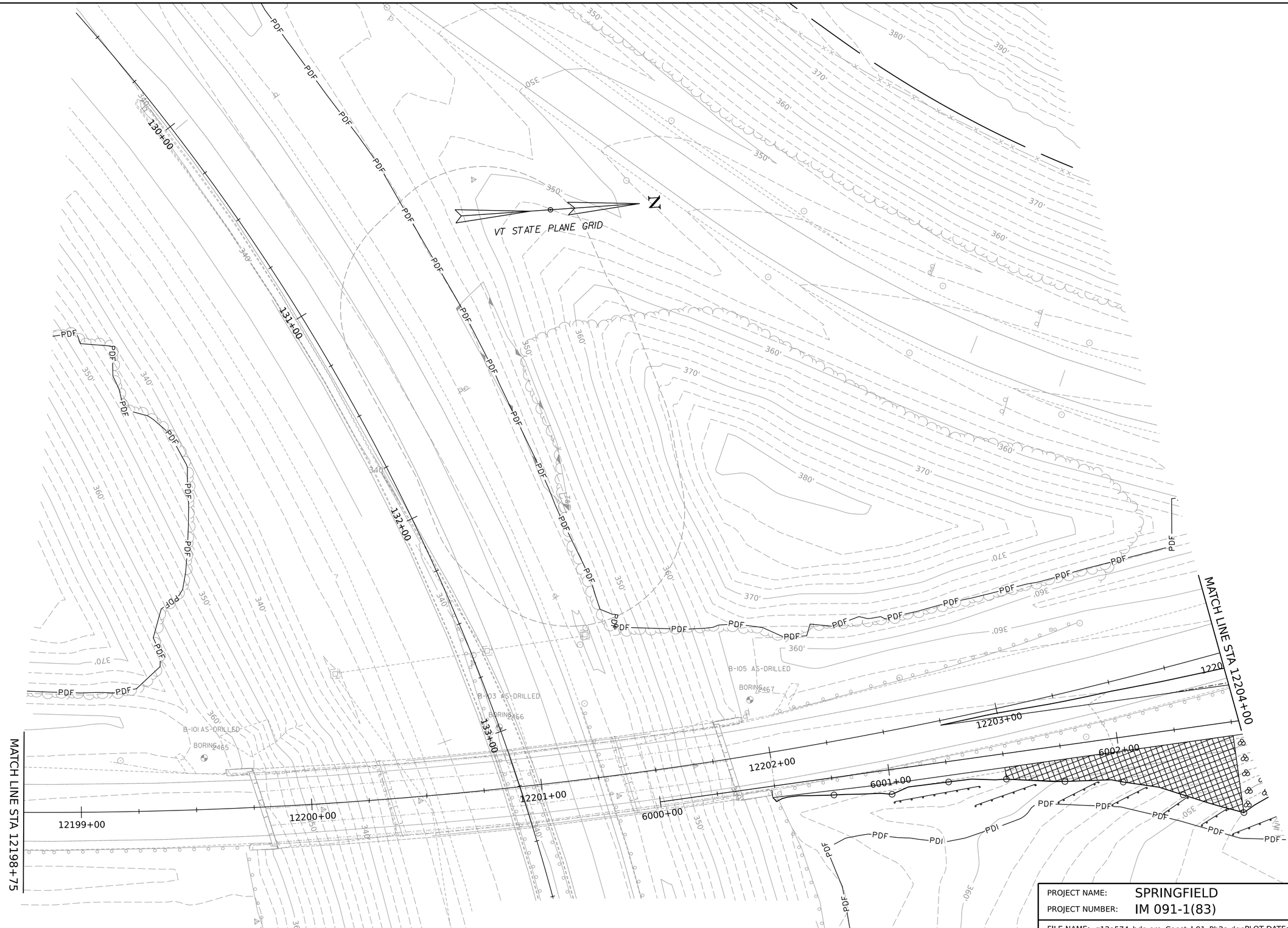
MATCH LINE STA 12198+75

SCALE 1" = 20'-0"

20 0 20

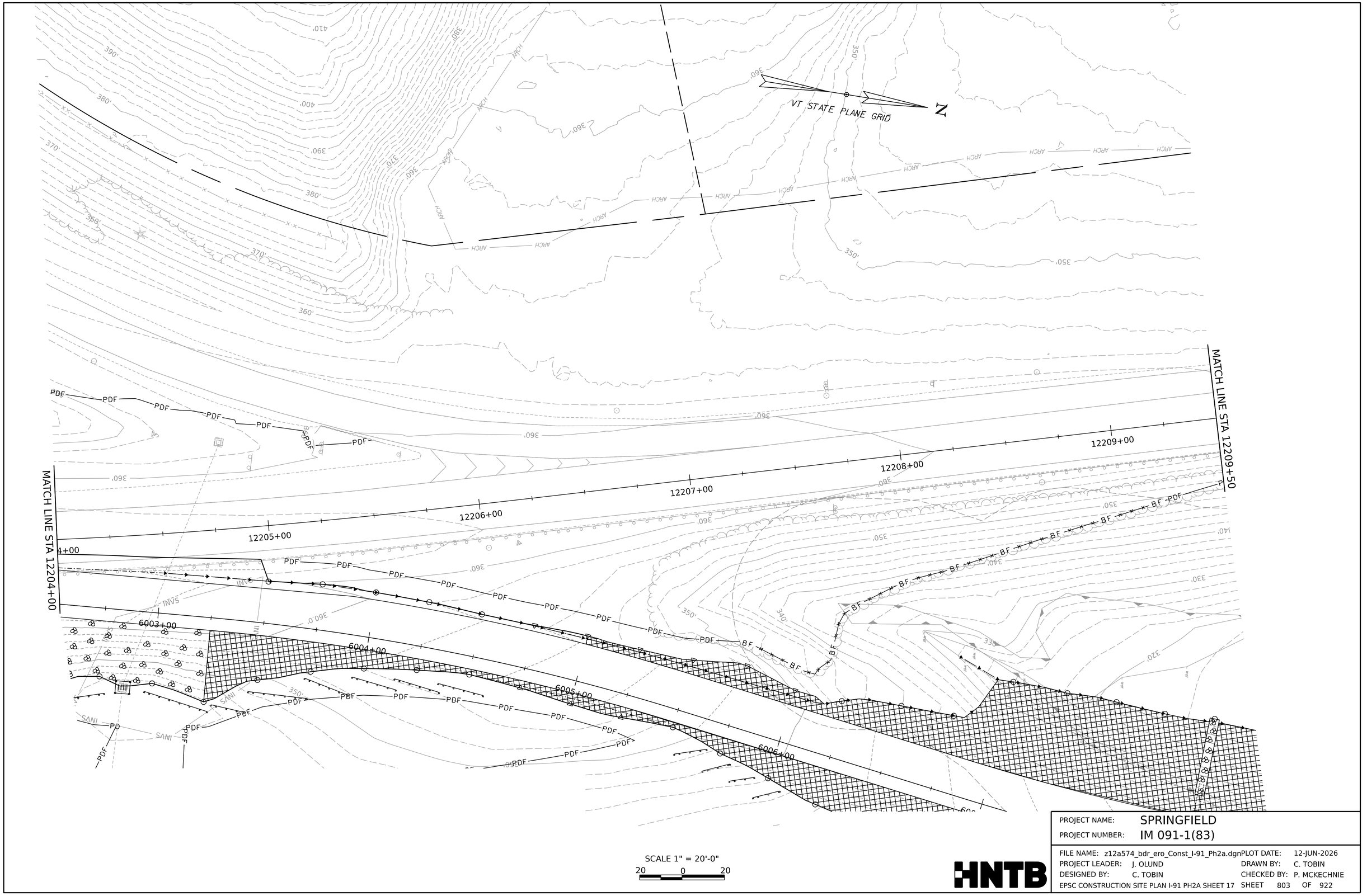
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 15	SHEET 801 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 16	SHEET 802 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 17		SHEET	803 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 18		SHEET 804	OF 922

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

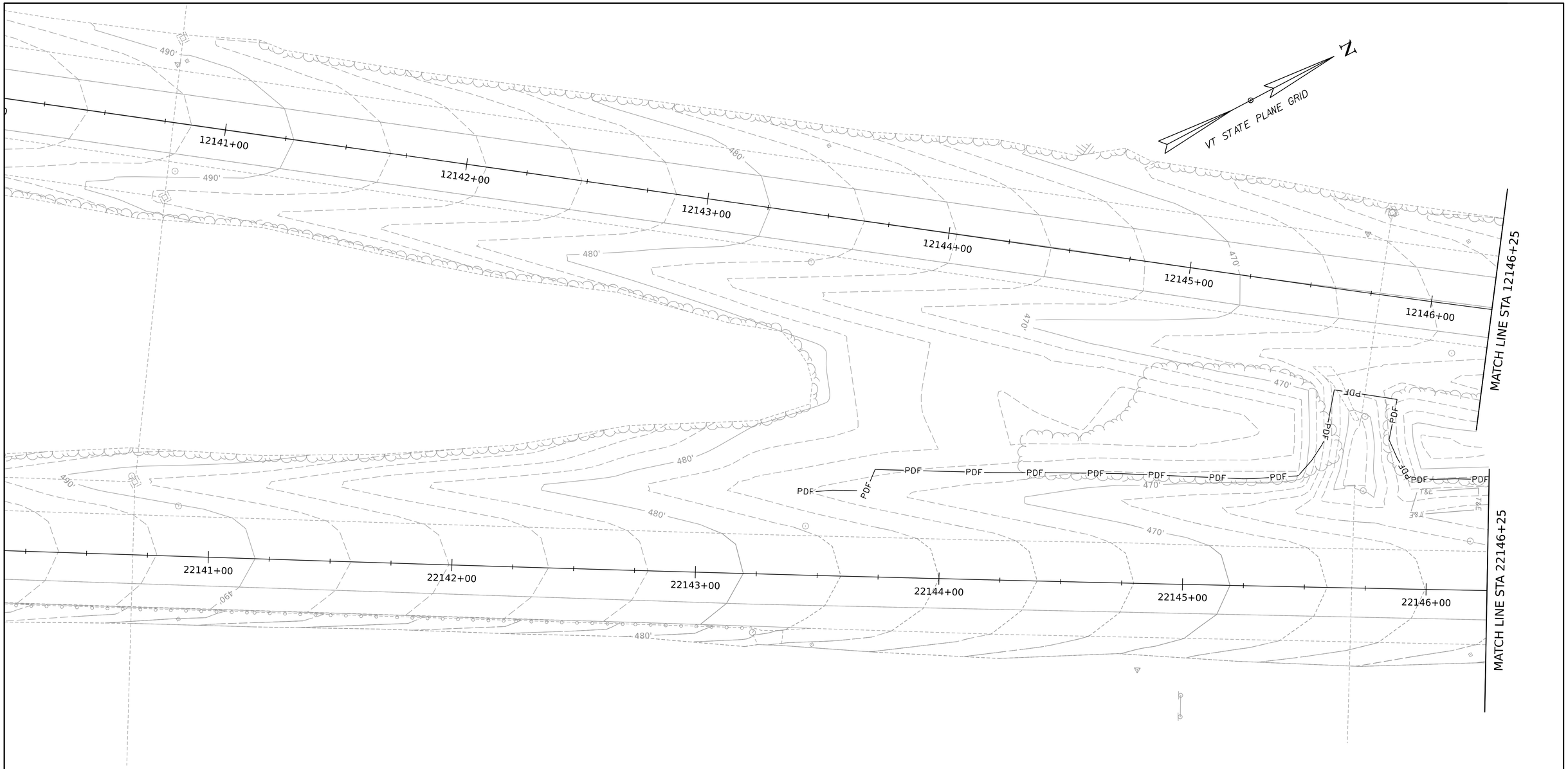
PDF

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH2A SHEET 19	SHEET 805 OF 922

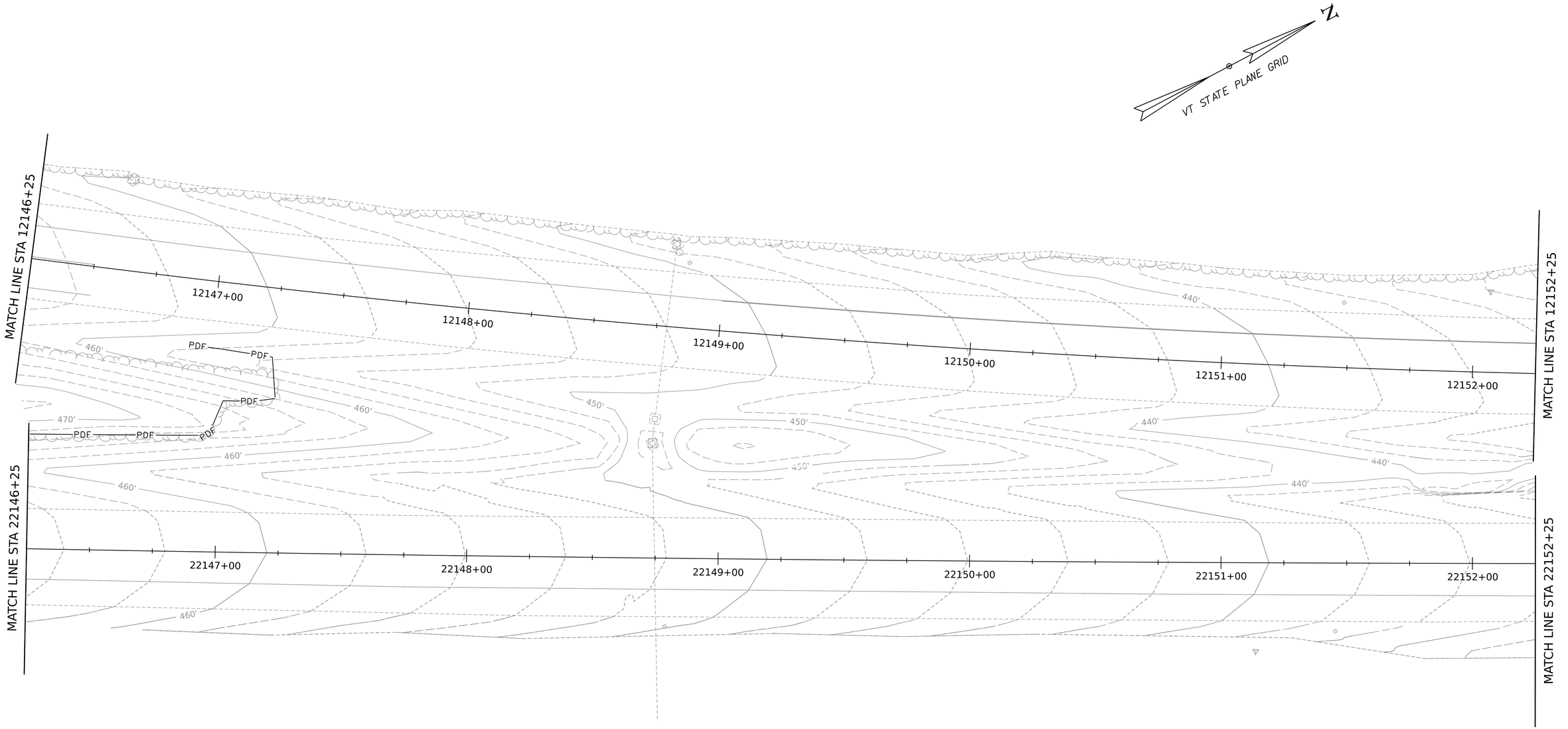


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 1		SHEET	806 OF 922

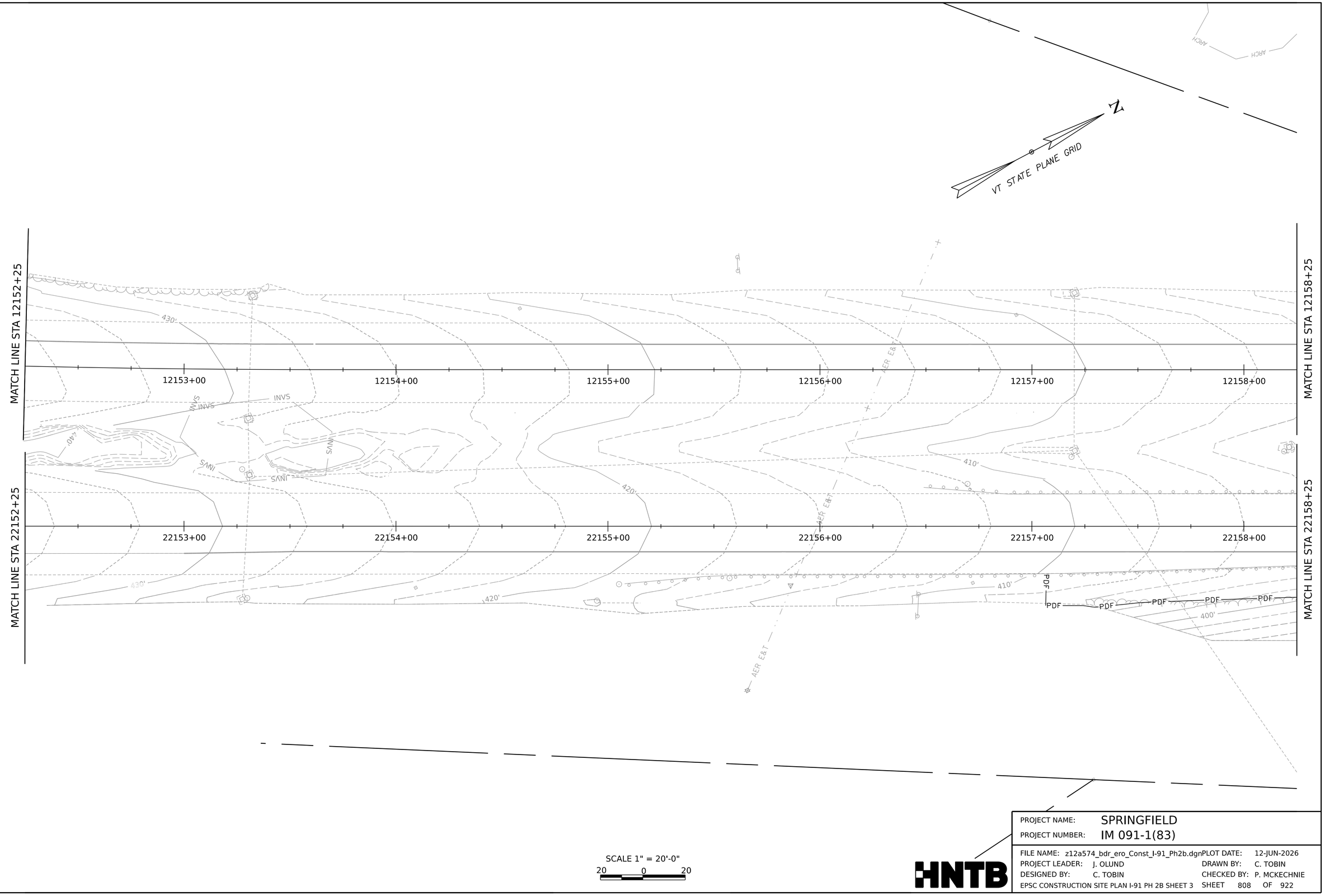


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 2		SHEET 807	OF 922

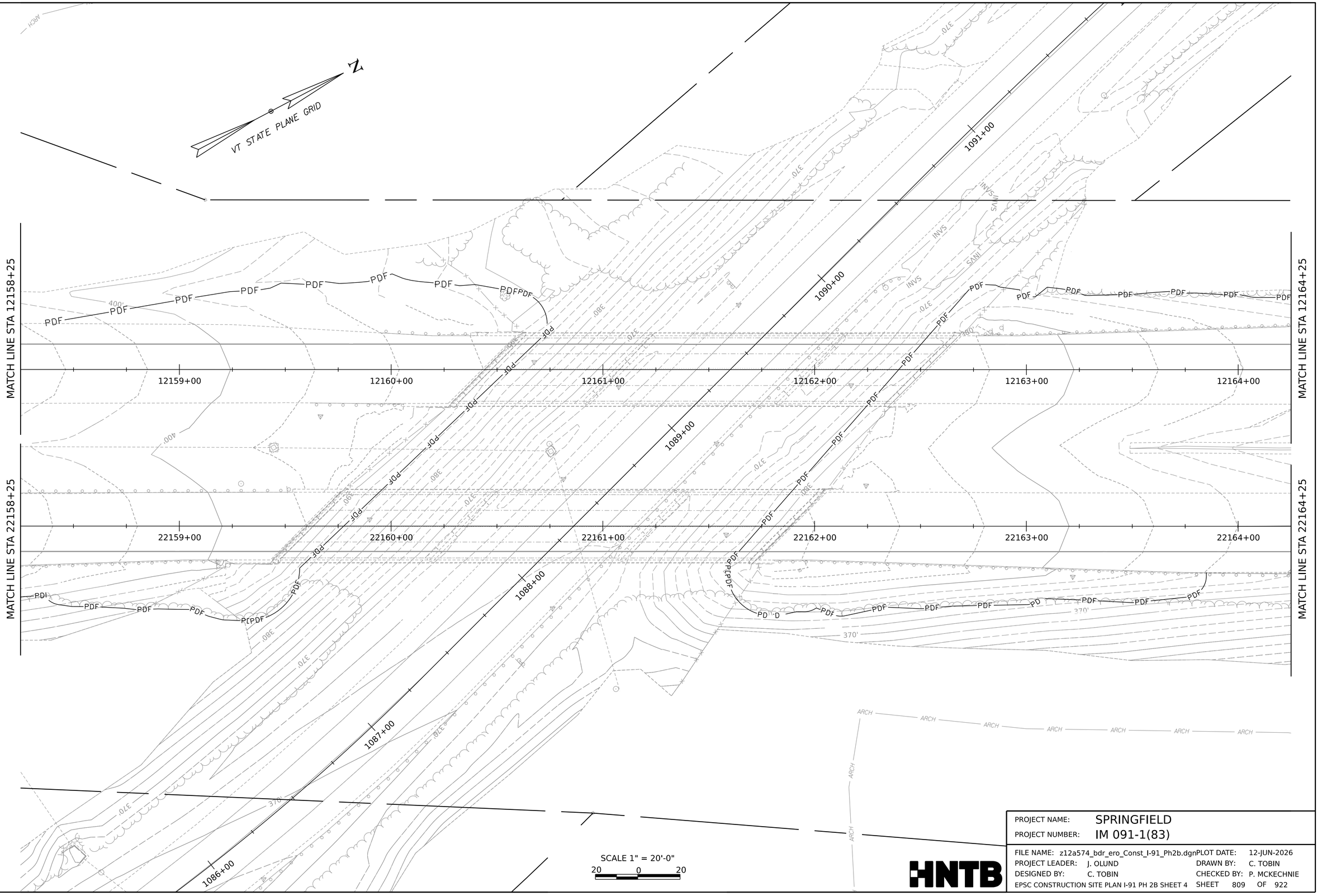


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 3		SHEET 808	OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn
PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND
DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN
CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 4	SHEET 809 OF 922

HNTB

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

5975+00 22165+00 5976+00 22166+00 5977+00 22167+00 5978+00 22168+00 5979+00 22169+00 5980+00 22170+00

PDF

370'

360'

350'

ARCH

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 5	SHEET 810 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

5981+00 5982+00 5983+00 5984+00 5985+00 5986+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 6		SHEET 811	OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22176+40

MATCH LINE STA 22182+50

VT STATE PLANE GRID

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

800+00 801+00 802+00 803+00

5000+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 7	SHEET 812 OF 922

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

5001+00 5002+00 5003+00 5004+00 5005+00 5006+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn
PROJECT LEADER:	J. OLUND
DESIGNED BY:	C. TOBIN
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 8	
PLOT DATE:	12-JUN-2026
DRAWN BY:	C. TOBIN
CHECKED BY:	P. MCKECHNIE
SHEET	813 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12188+60

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00 400+00 STA 400+75

STA 12194+50

MATCH LINE STA 22188+60

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00 STA 22194+50

5007+00 5008+00 5009+00 5010+00 200+00 201+00 202+00 203+00 204+00 STA 204+25

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 9	SHEET 814 OF 922

STA 22194+50

22195+00

22196+00

22197+00

22198+00

2219

MATCH LINE STA 22199+00

STA 204+25

205+00

206+00

207+00

208+00

209+00

MATCH LINE STA 209+25

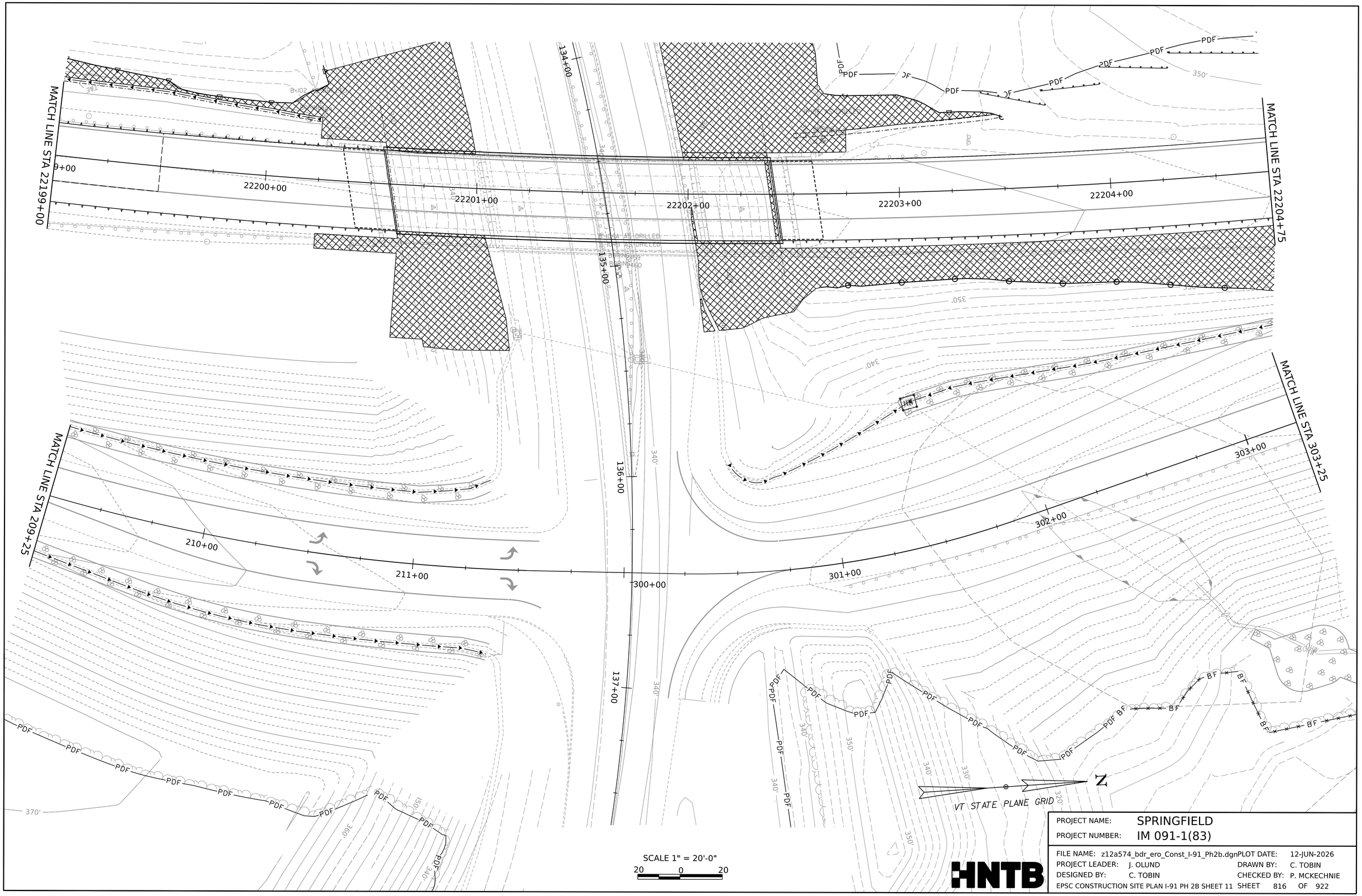
VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574_bdr_ero_Const_I-91_I-91 PH2b.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 50		SHEET	815 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 11		SHEET	816 OF 922

HNTB

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

304+00 305+00 306+00 307+00 308+00 309+00

910+00 911+00 912+00 913+00 914+00

22205+00 22206+00 22207+00 22208+00 22209+00 22210+00

6007+00 6008+00

SCALE 1" = 20'-0"

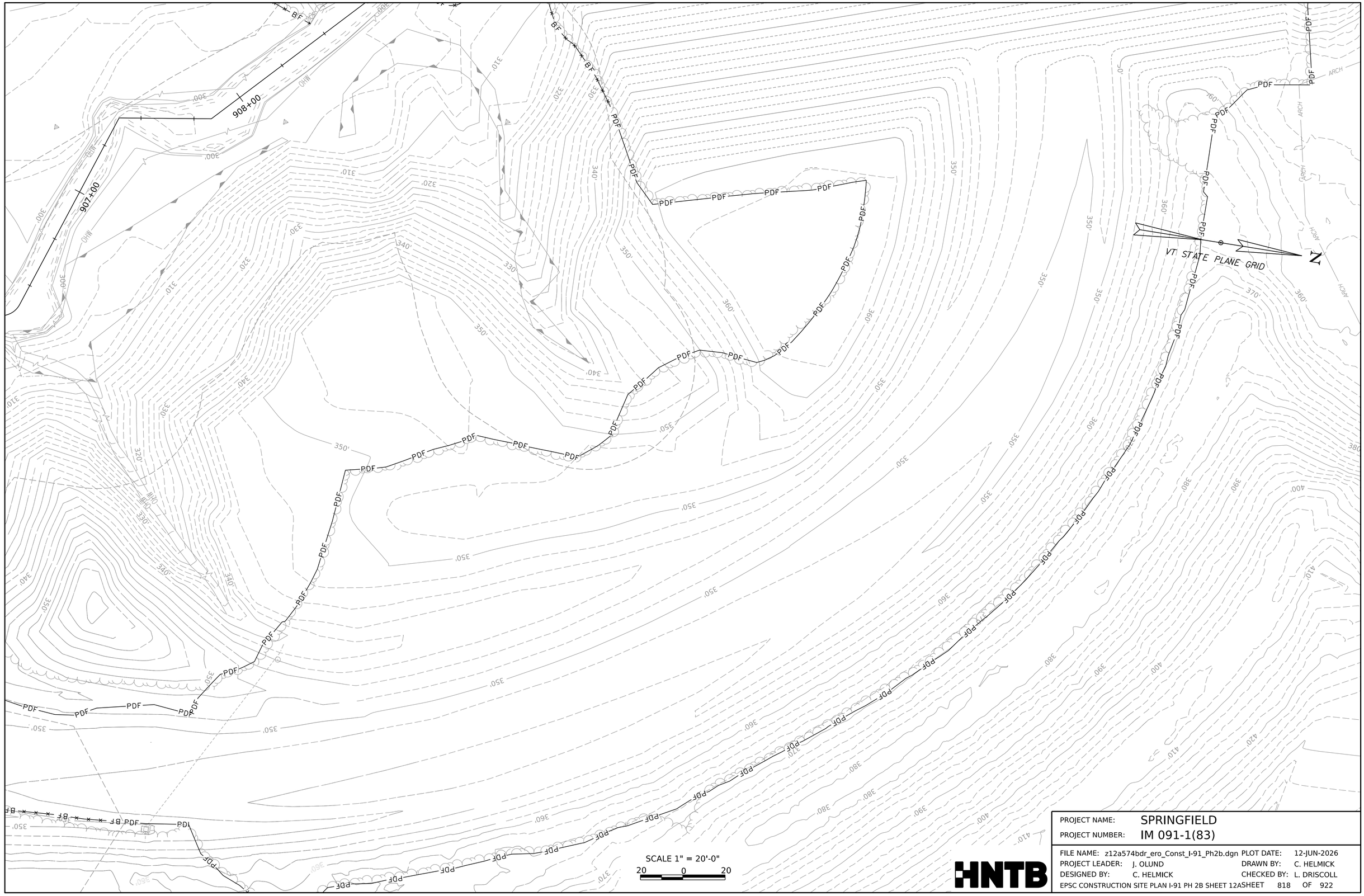
20 0 20

VT STATE PLANE GRID

N

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 12	SHEET 817 OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 12A		SHEET	818 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

SCALE 1" = 20'-0"

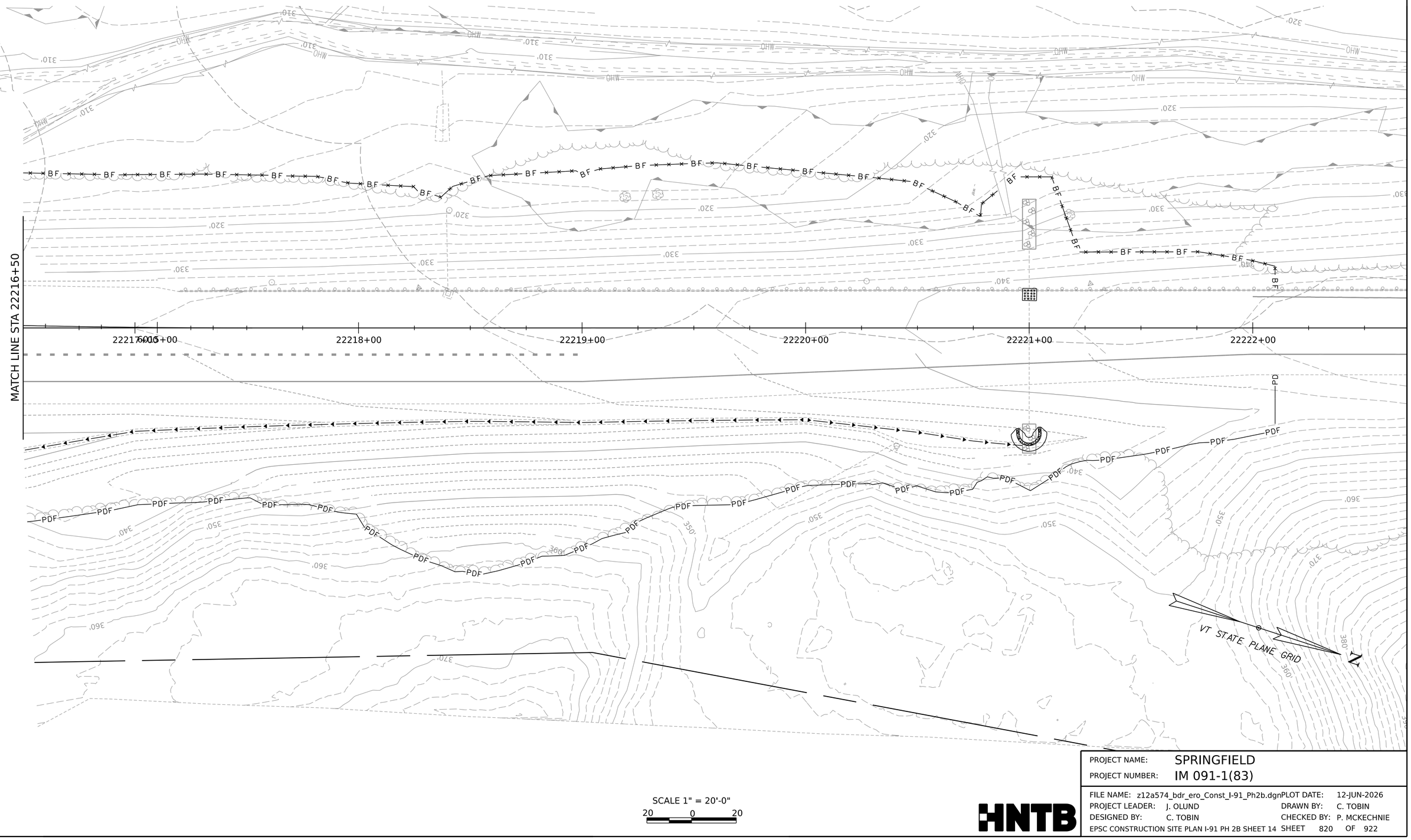
20 0 20

VT STATE PLANE GRID

N

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 13	SHEET 819 OF 922

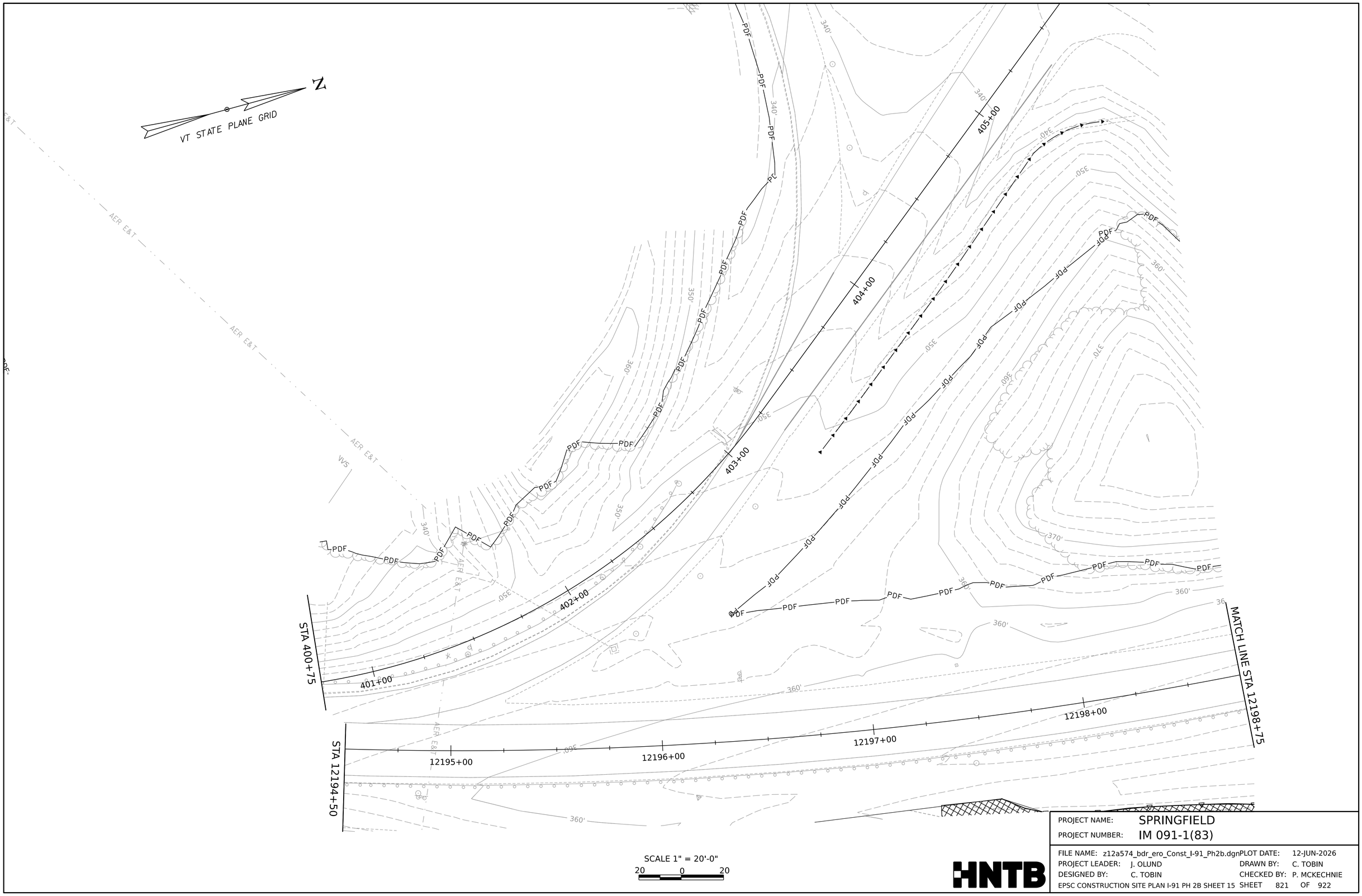
HNTB



SCALE 1" = 20'-0"
20 0 20

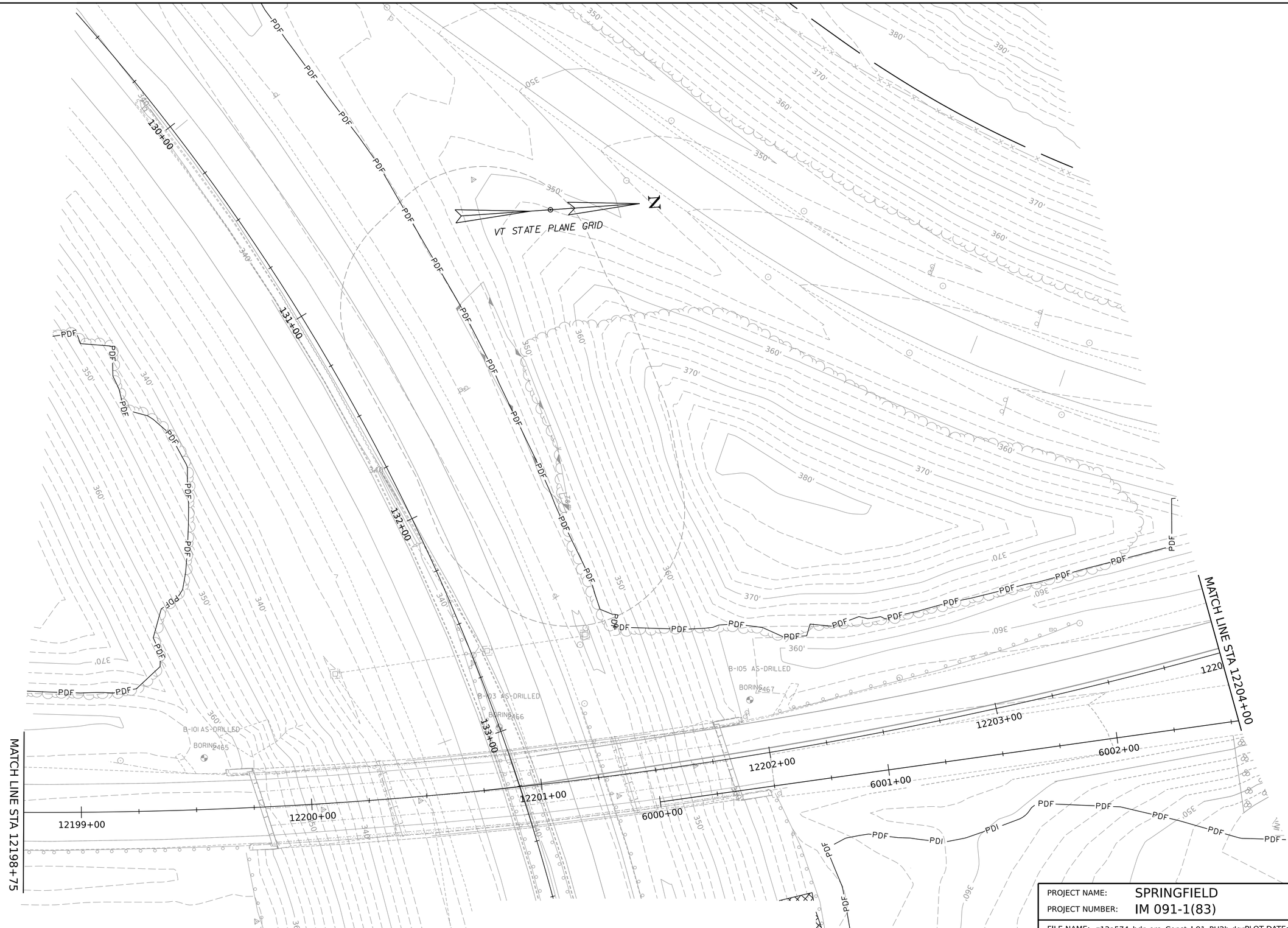
HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 14	SHEET 820 OF 922



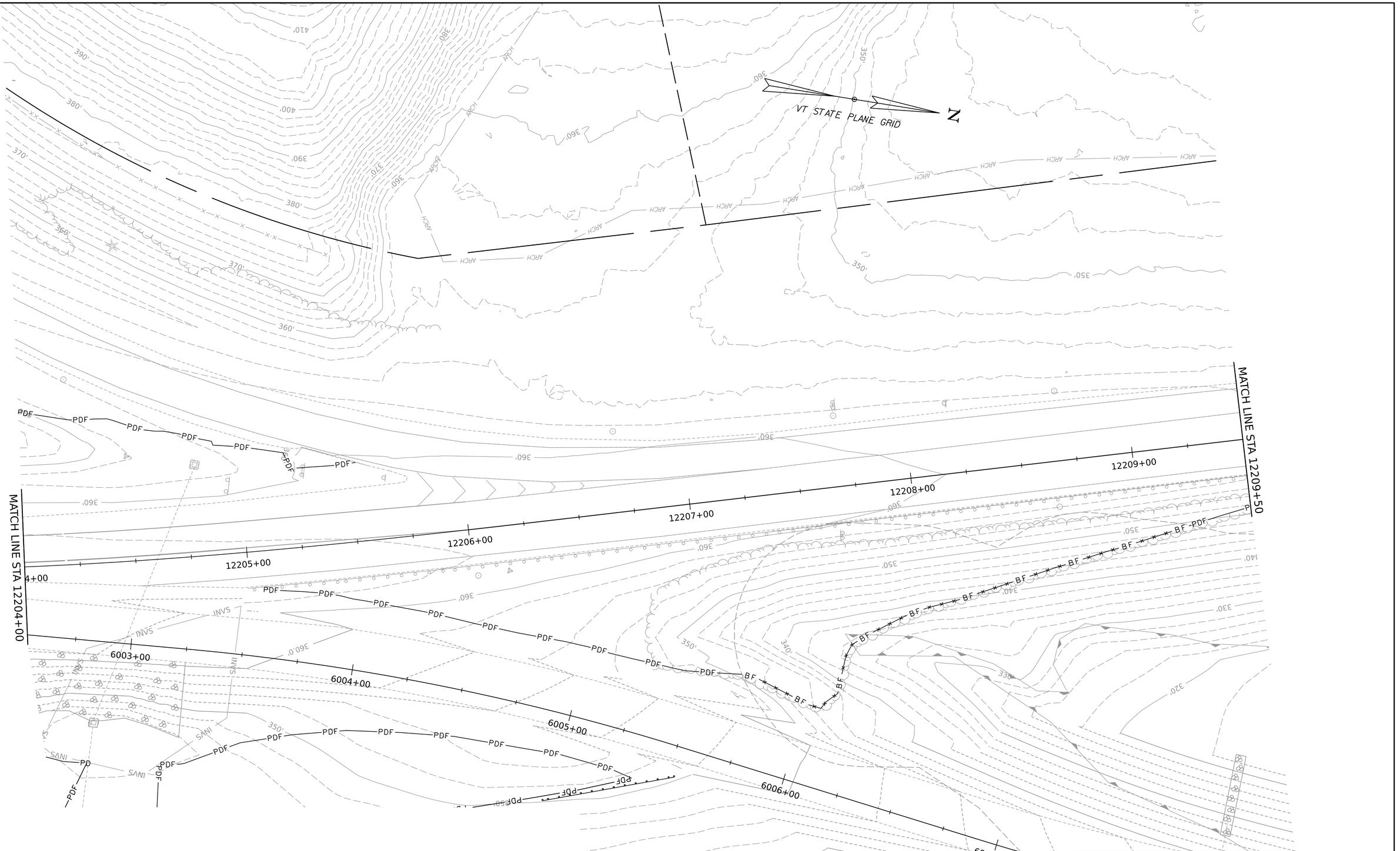
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 15	SHEET 821 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_PH2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 16	SHEET 822 OF 922

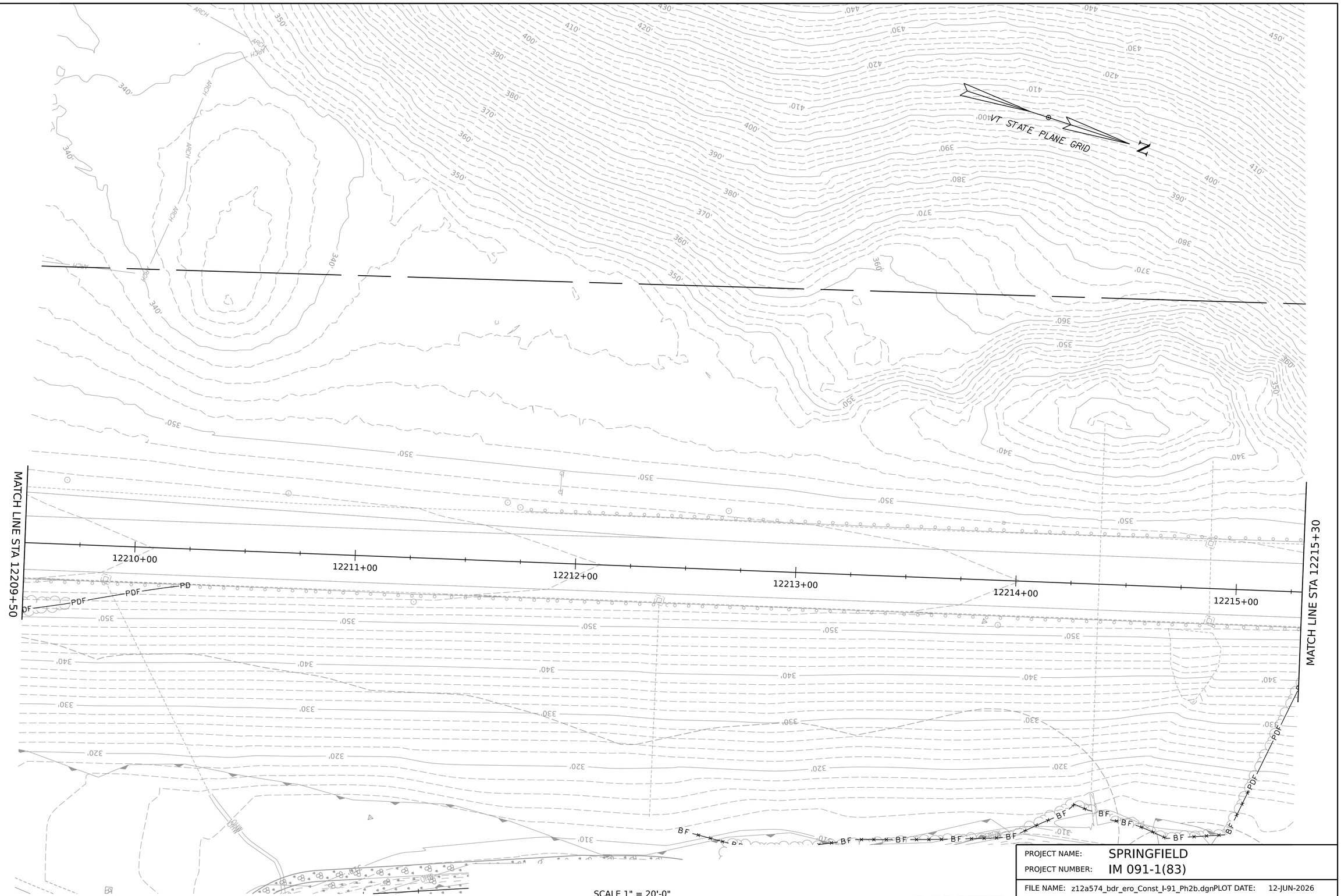
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 17		SHEET	823 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 18	SHEET 824 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

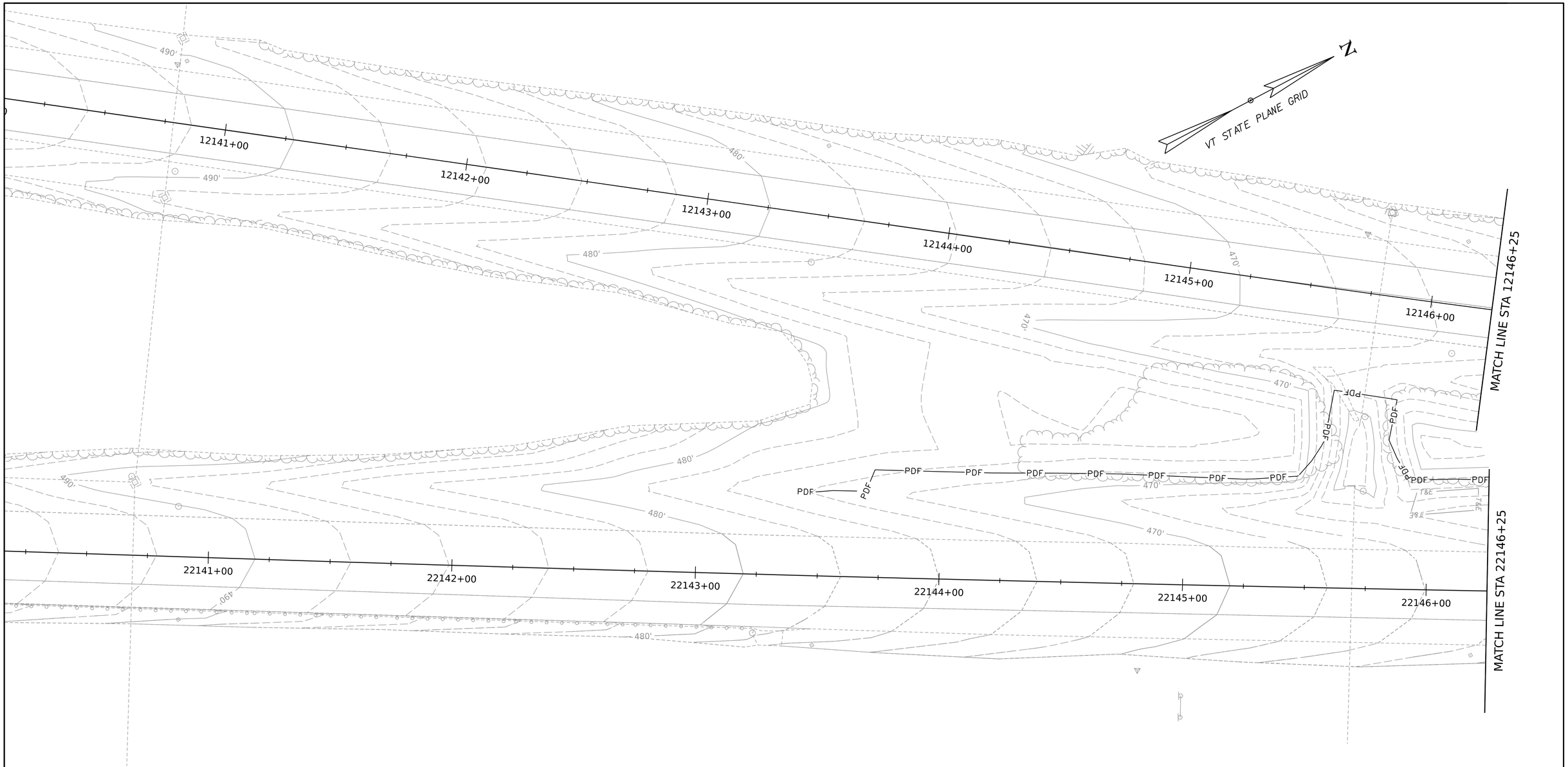
PDF

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph2b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 2B SHEET 19	SHEET 825 OF 922

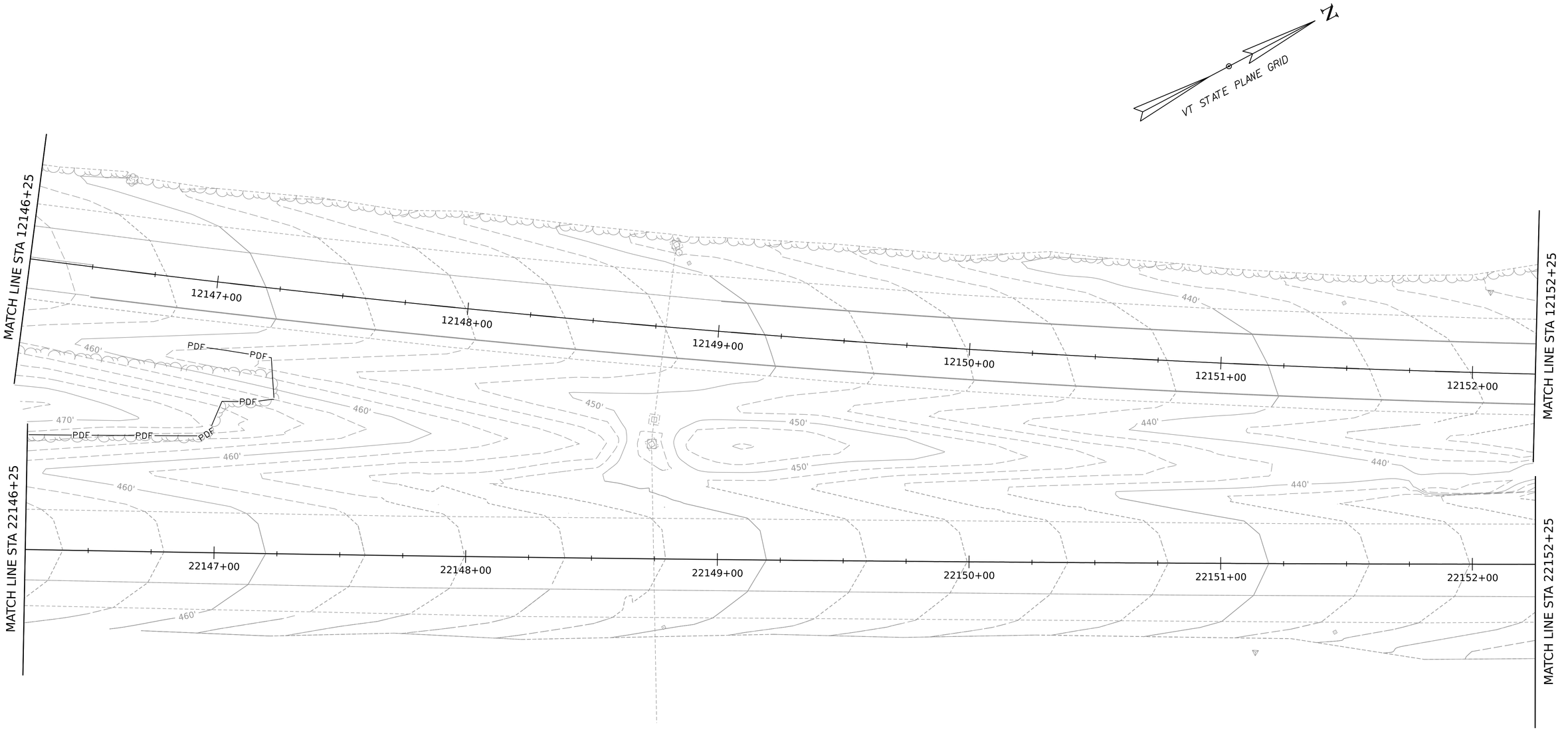


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 1		SHEET 826	OF 922



SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 2		SHEET 827	OF 922

N

VT STATE PLANE GRID

MATCH LINE STA 12152+25

12153+00 12154+00 12155+00 12156+00 12157+00 12158+00

MATCH LINE STA 12158+25

MATCH LINE STA 22152+25

22153+00 22154+00 22155+00 22156+00 22157+00 22158+00

MATCH LINE STA 22158+25

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 3		SHEET 828	OF 922

N

VT STATE PLANE GRID

MATCH LINE STA 12158+25

MATCH LINE STA 12164+25

MATCH LINE STA 22158+25

MATCH LINE STA 22164+25

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

1086+00 1087+00 1088+00 1089+00 1090+00 1091+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 4		SHEET	829 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

2+00 12165+00 8963+00 12166+00 8964+00 12167+00 8965+00 12168+00 8966+00 12169+00 8967+00 12170+00

370' 360' 350' PDF PDF PDF

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

370' 360' 350' PDF PDF PDF

ARCH

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 5		SHEET 830	OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

8969+00 8970+00 8971+00 8972+00 8973+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 6		SHEET 831	OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 22176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22182+50

802+00

801+00

803+00

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 7		SHEET 832	OF 922

HNTB

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

7999+00 8000+00 8001+00 8002+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 8	SHEET 833 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

STA 400+75

STA 12194+50

STA 22194+50

STA 204+25

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00 400+00

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00 8007+00 8006+00 8005+00 8004+00 8003+00

200+00 201+00 202+00 203+00 204+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 9		SHEET	834 OF 922

STA 22194+50

22195+00

22196+00

22197+00

22198+00

MATCH LINE STA 22199+00

STA 204+25

205+00

206+00

207+00

208+00

209+00

MATCH LINE STA 209+25

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 10	SHEET 835 OF 922

HNTB

MATCH LINE STA 22199+00

MATCH LINE STA 22204+75

MATCH LINE STA 209+25

MATCH LINE STA 303+25

134+00

135+00

136+00

137+00

9+00

22200+00

22201+00

22202+00

9000+00

9001+00

9002+00

22203+00

22204+00

210+00

211+00

300+00

301+00

302+00

303+00

PDF

BF

350'

340'

360'

330'

320'

370'

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 11	SHEET 836 OF 922

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 303+25

MATCH LINE STA 309+25

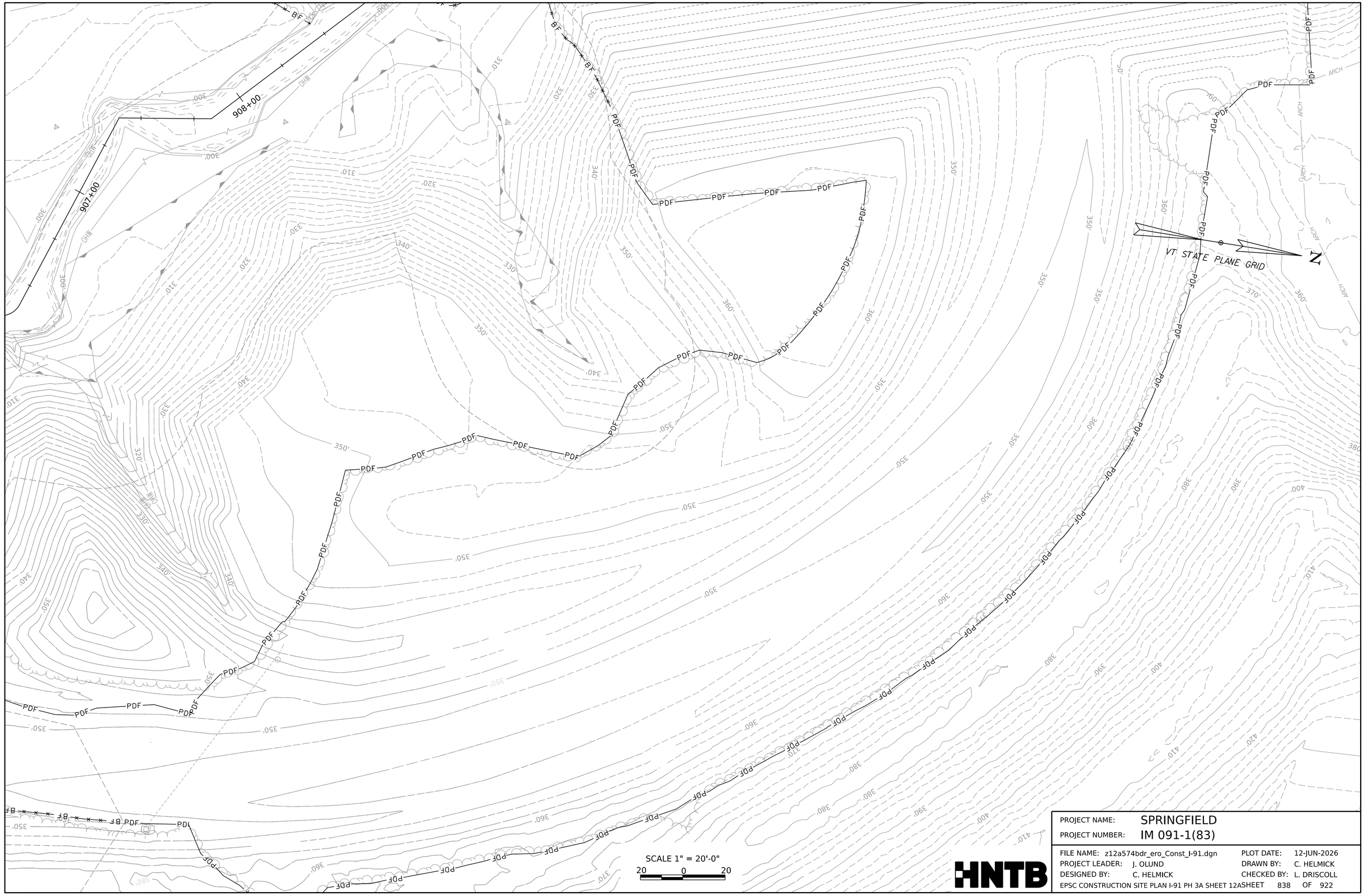
SCALE 1" = 20'-0"
20 0 20

VT STATE PLANE GRID

N

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 12		SHEET 837	OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_Const_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 12A	SHEET 838 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

915+00

916+00

917+00

918+00

919+00

920+00

22211+00

22212+00

22213+00

22214+00

22215+00

22216+00

310+00

311+00

VT STATE PLANE GRID

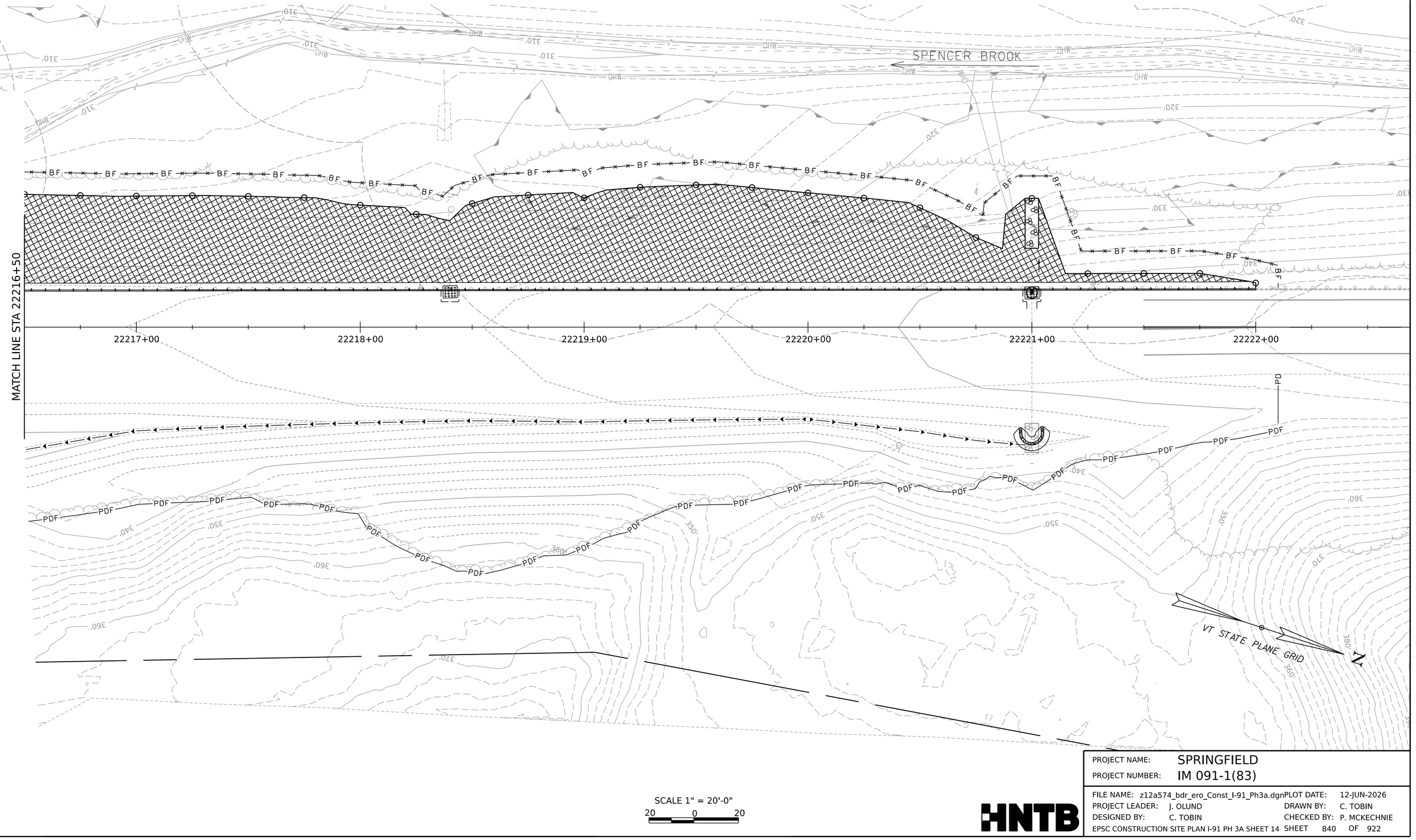
N

SCALE 1" = 20'-0"

20 0 20

HNTB

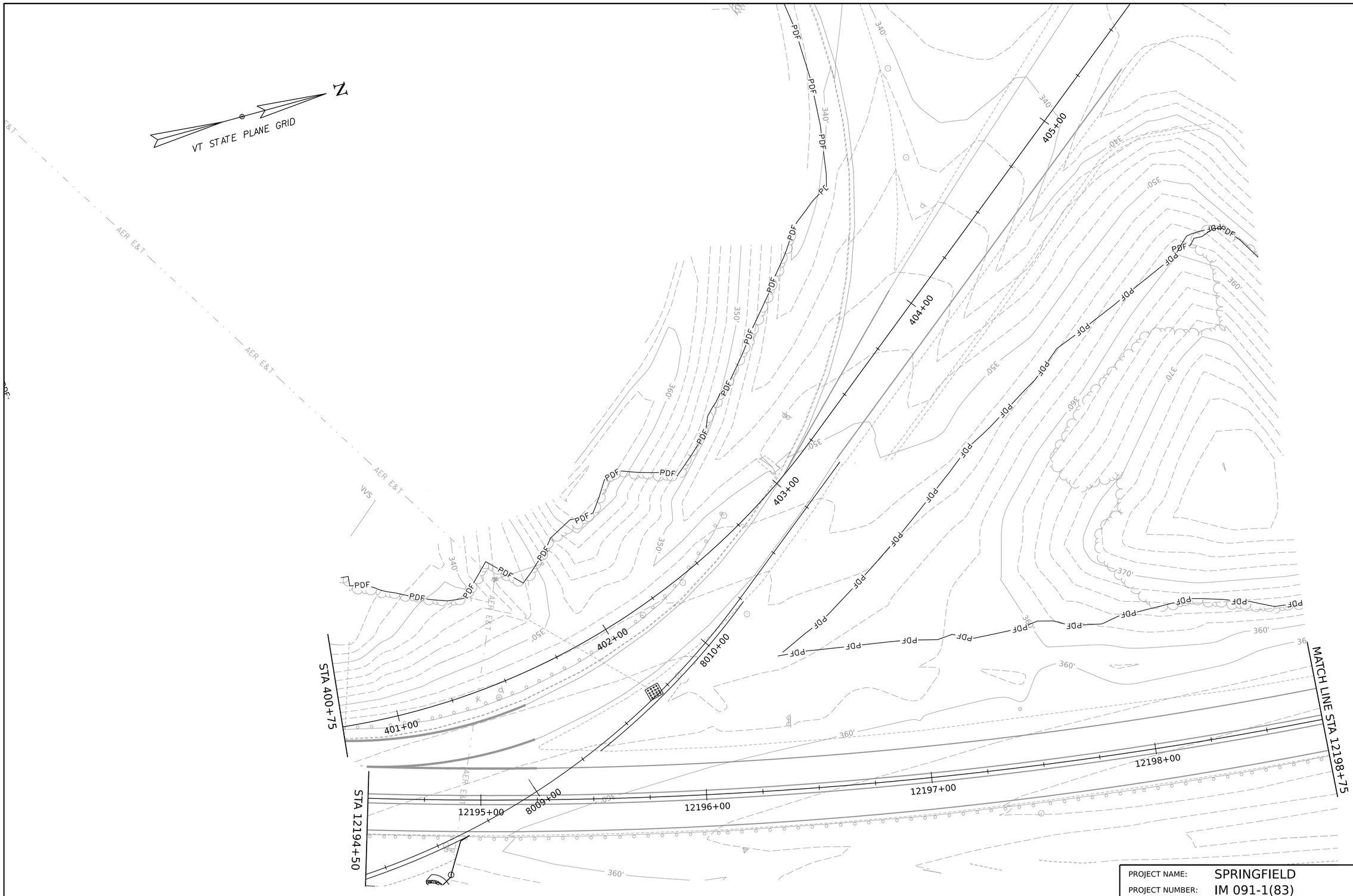
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 13	SHEET 839 OF 922

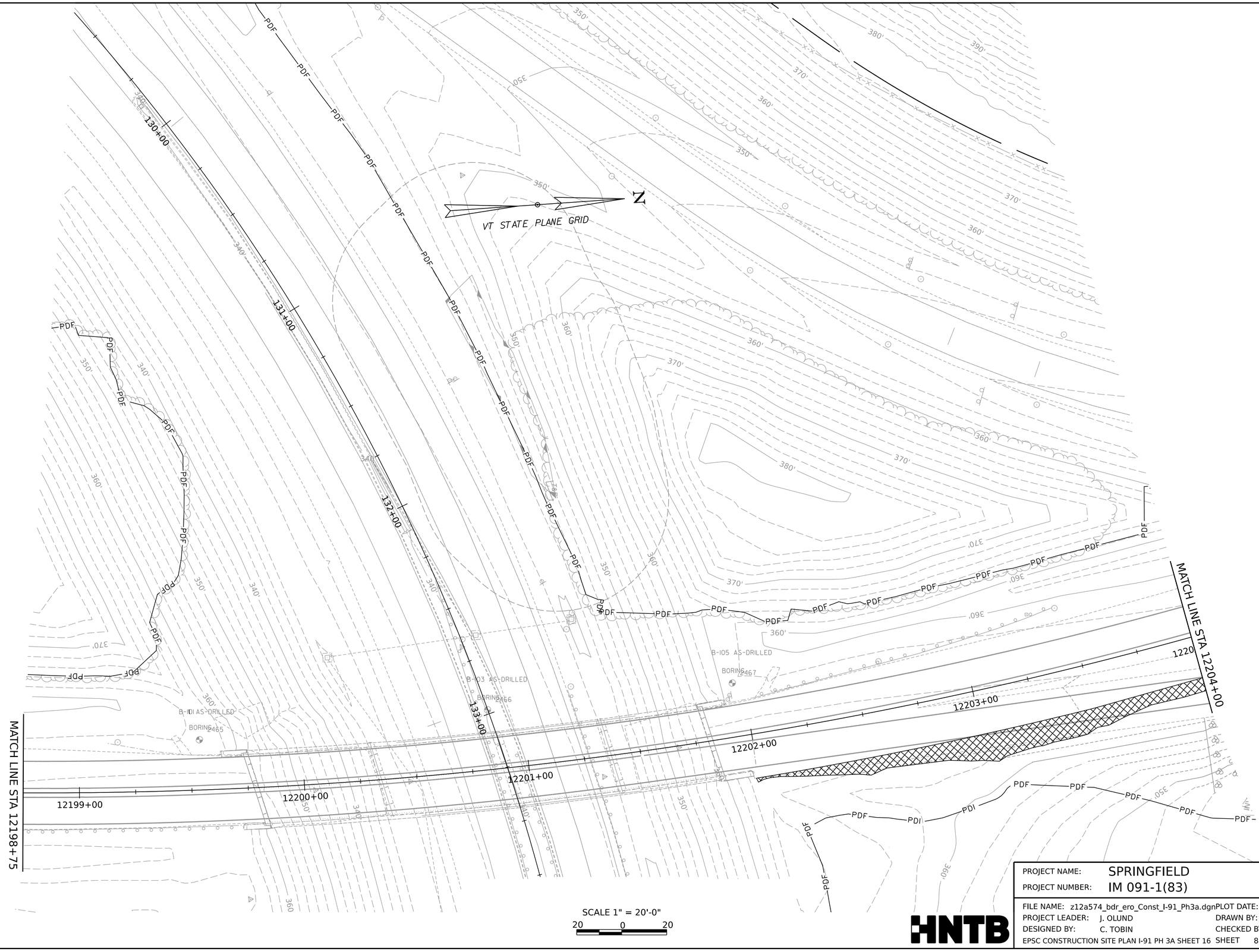


PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 14		SHEET	840 OF 922

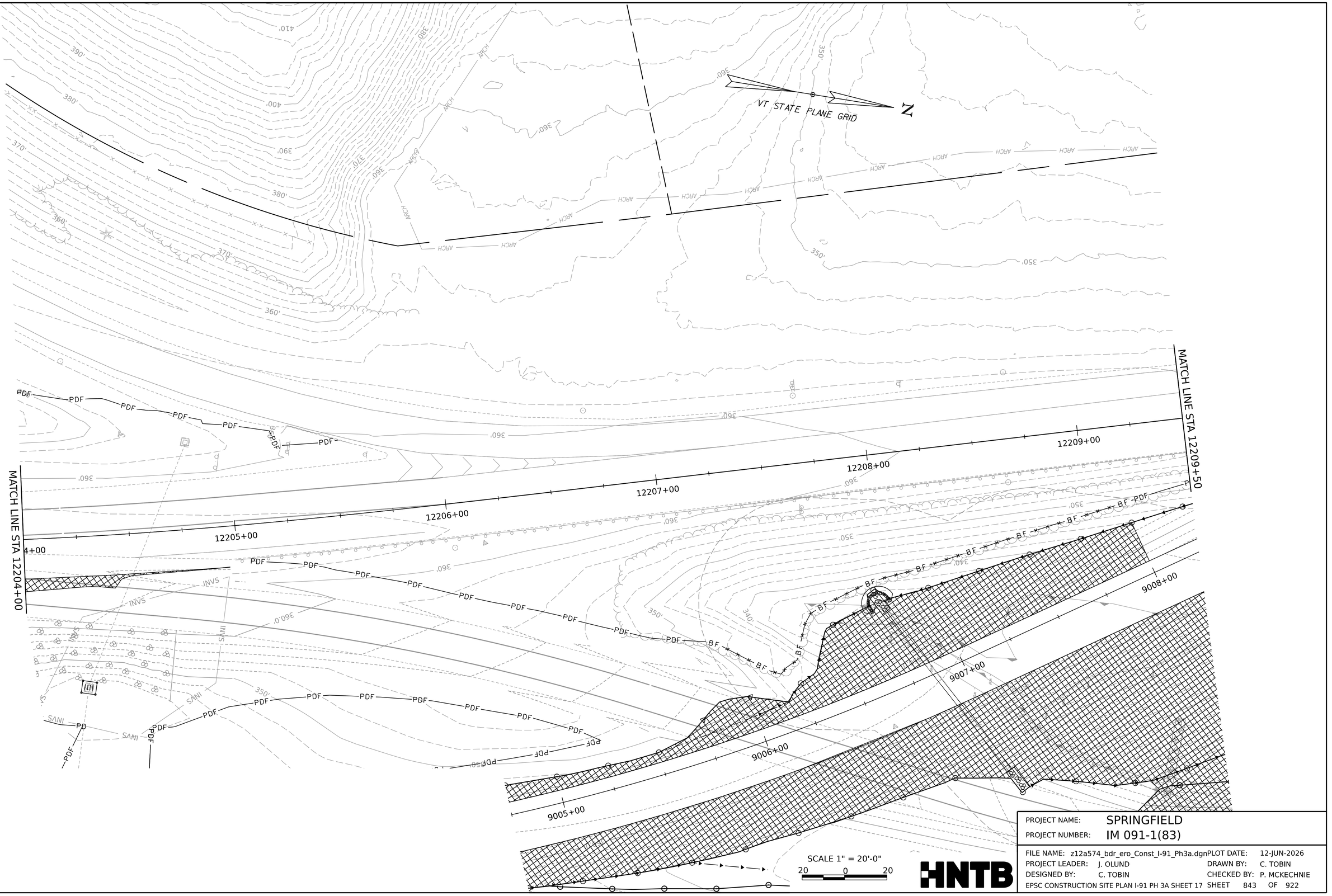
HNTB


N
VT STATE PLANE GRID
AER E&T
AER E&T
AER E&T



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 16	SHEET 842 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 17	SHEET 843 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

12210+00 12211+00 12212+00 12213+00 12214+00 12215+00

9009+00 9010+00 9011+00 9012+00 9013+00 9014+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 18	SHEET 844 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

9015+00

12217+00

12218+00

12219+00

12220+00

12221+00

PDF PDF PDF PDF PDF PDF PDF PDF

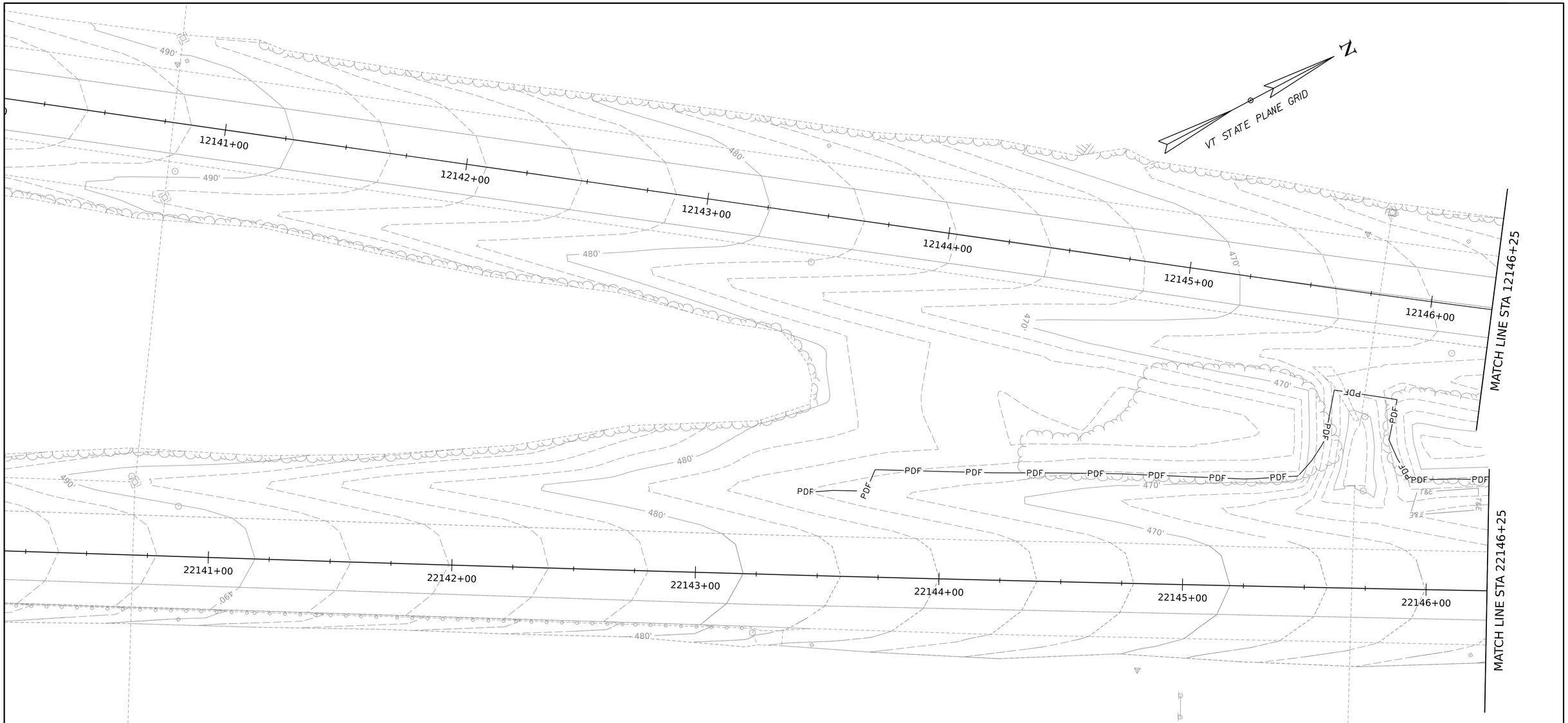
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3A SHEET 19		SHEET	845 OF 922

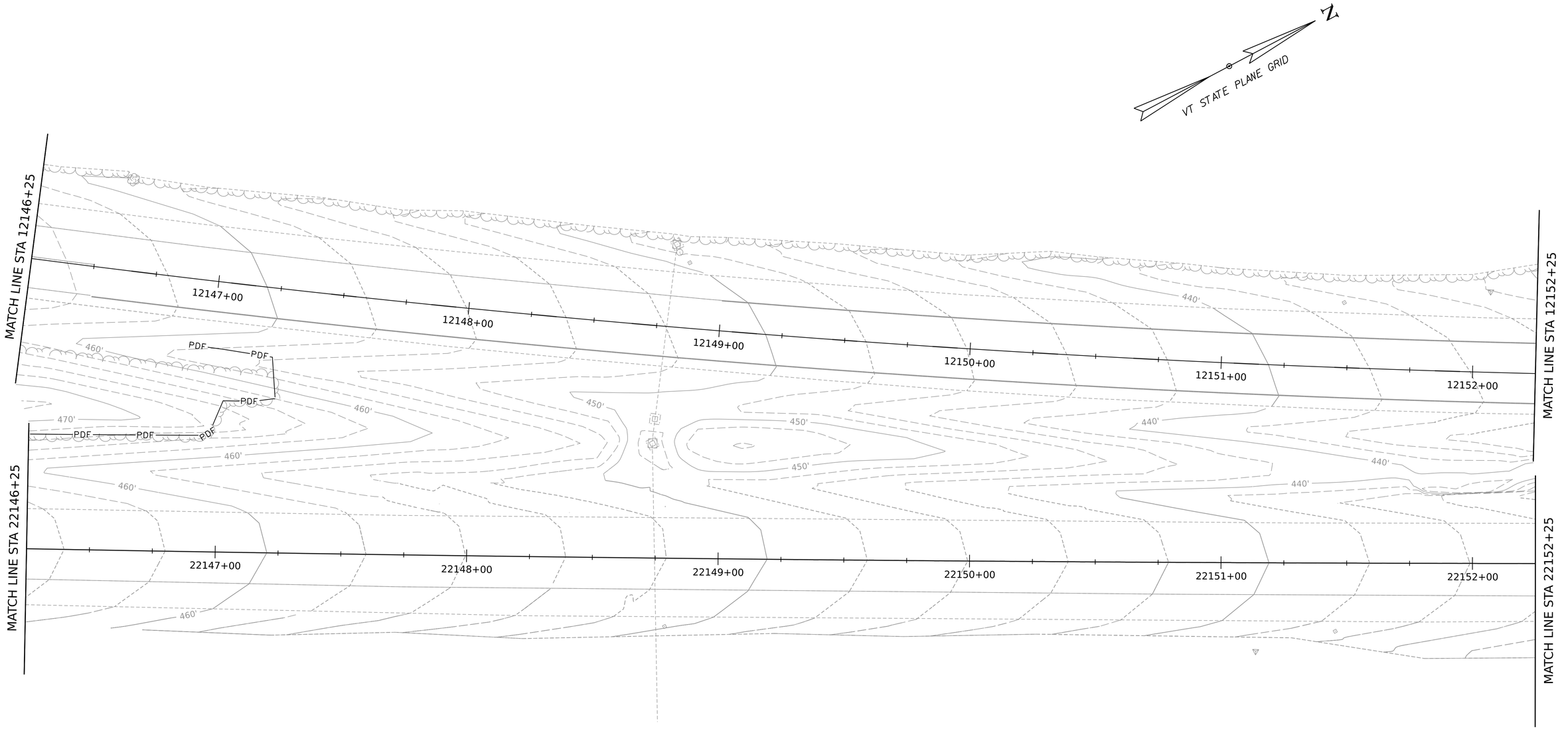


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 1		SHEET 846	OF 922

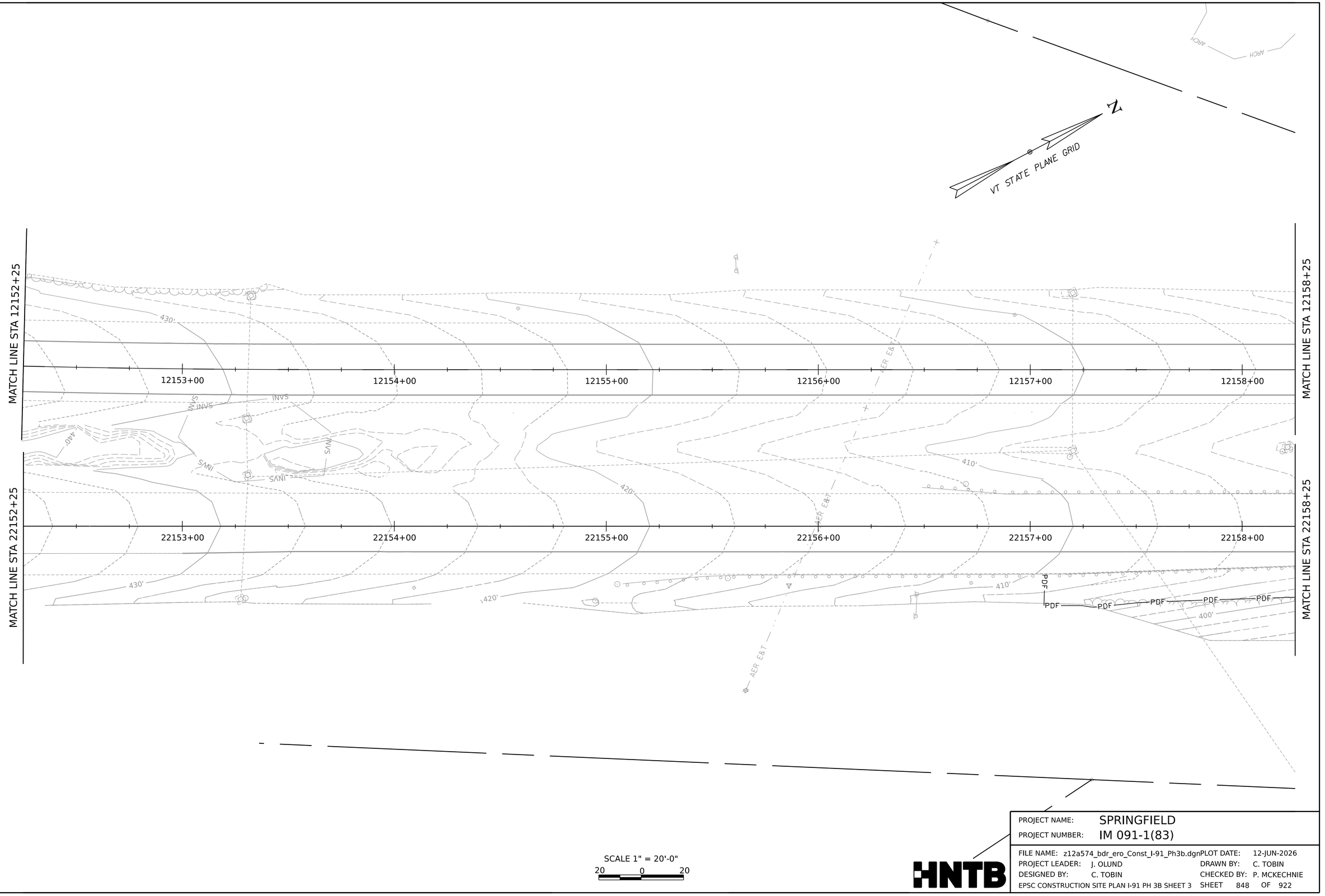


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 2		SHEET 847	OF 922

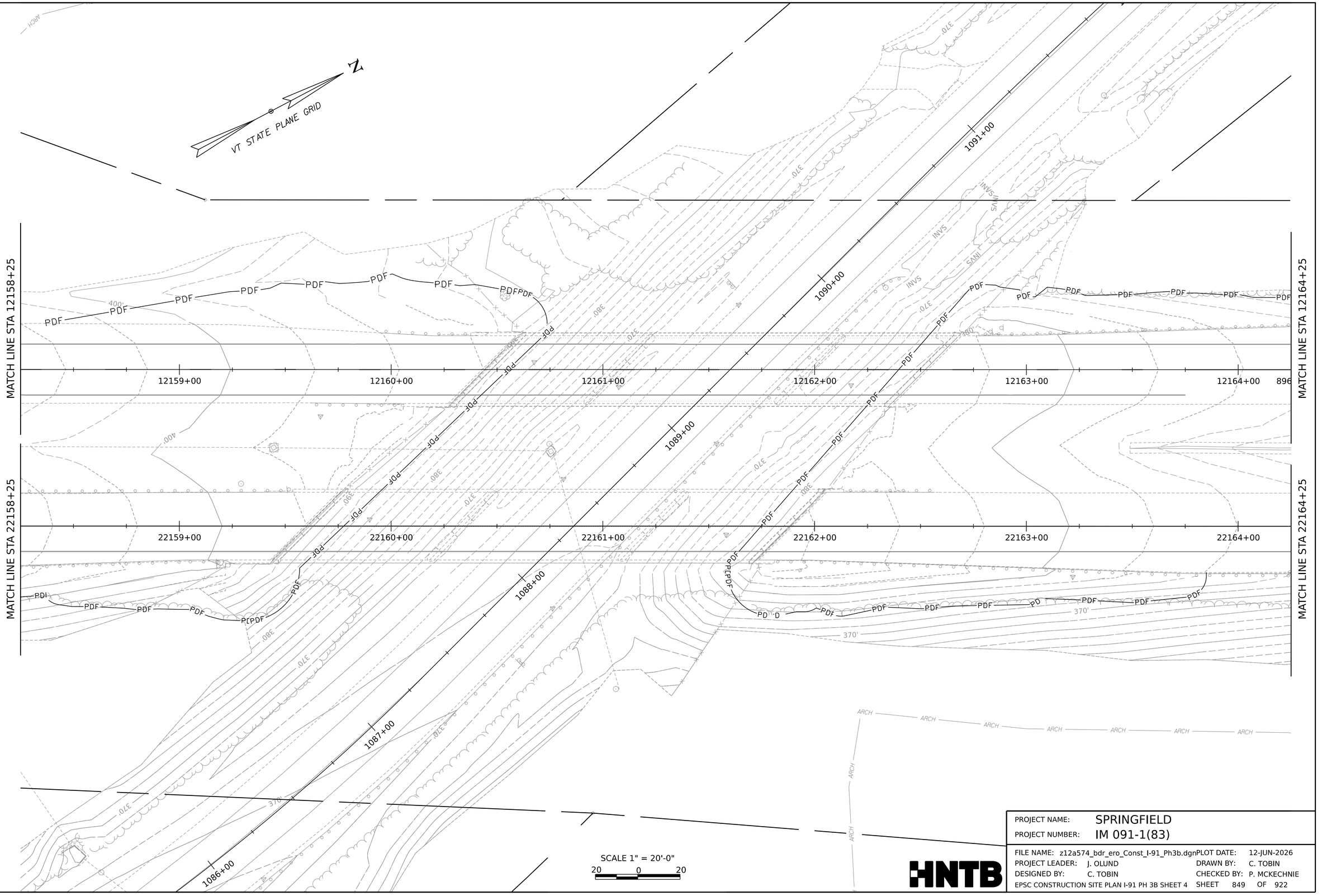


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 3		SHEET 848	OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn
PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND
DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN
CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 4	SHEET 849 OF 922

HNTB

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

8963+00 8964+00 8965+00 8966+00 8967+00

PDF PDF PDF PDF

370' 360' 350'

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

370' 360' 350' 310'

ARCH

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 5		SHEET 850	OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

8969+00 8970+00 8971+00 8972+00 8973+00

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 6	SHEET 851 OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22176+40

MATCH LINE STA 22182+50

VT STATE PLANE GRID

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

800+00 801+00 802+00 803+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 7		SHEET	852 OF 922

HNTB

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

7999+00 8000+00 8001+00 8002+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 8		SHEET	853 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

STA 400+75

STA 12194+50

STA 22194+50

STA 204+25

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00 400+00 8008+00

8003+00 8004+00 8005+00 8006+00 8007+00 22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

200+00 201+00 202+00 203+00 204+00

BF PDF INVS ARCH

SCALE 1" = 20'-0"

20 0 20

TING R.O.W.

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 9		SHEET 854	OF 922

STA 22194+50

22195+00

22196+00

22197+00

22198+00

2219

MATCH LINE STA 22199+00

STA 204+25

205+00

206+00

207+00

208+00

209+00

MATCH LINE STA 209+25

AER E&I

PDF

350'

360'

370'

VT STATE PLANE GRID

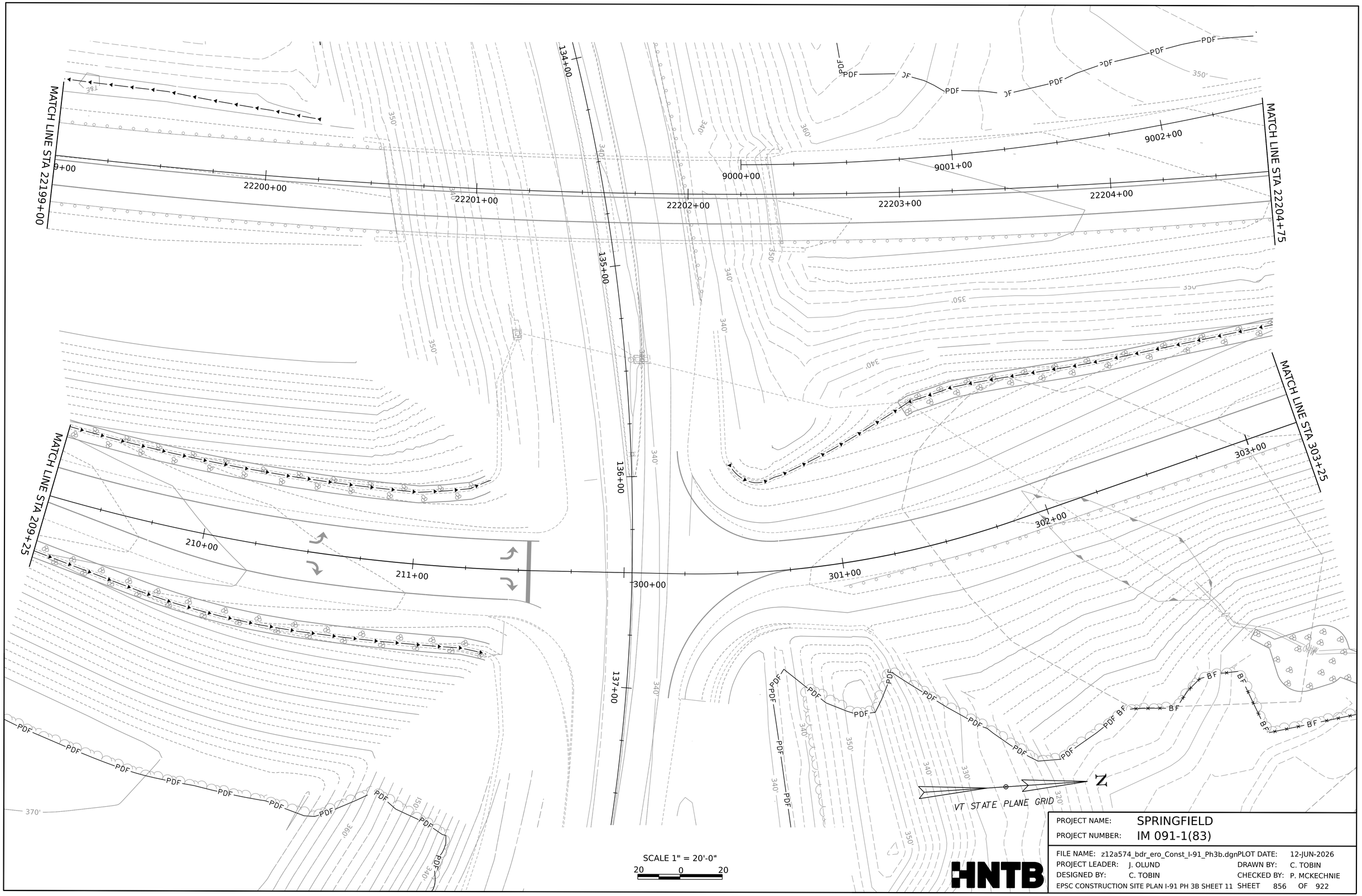
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

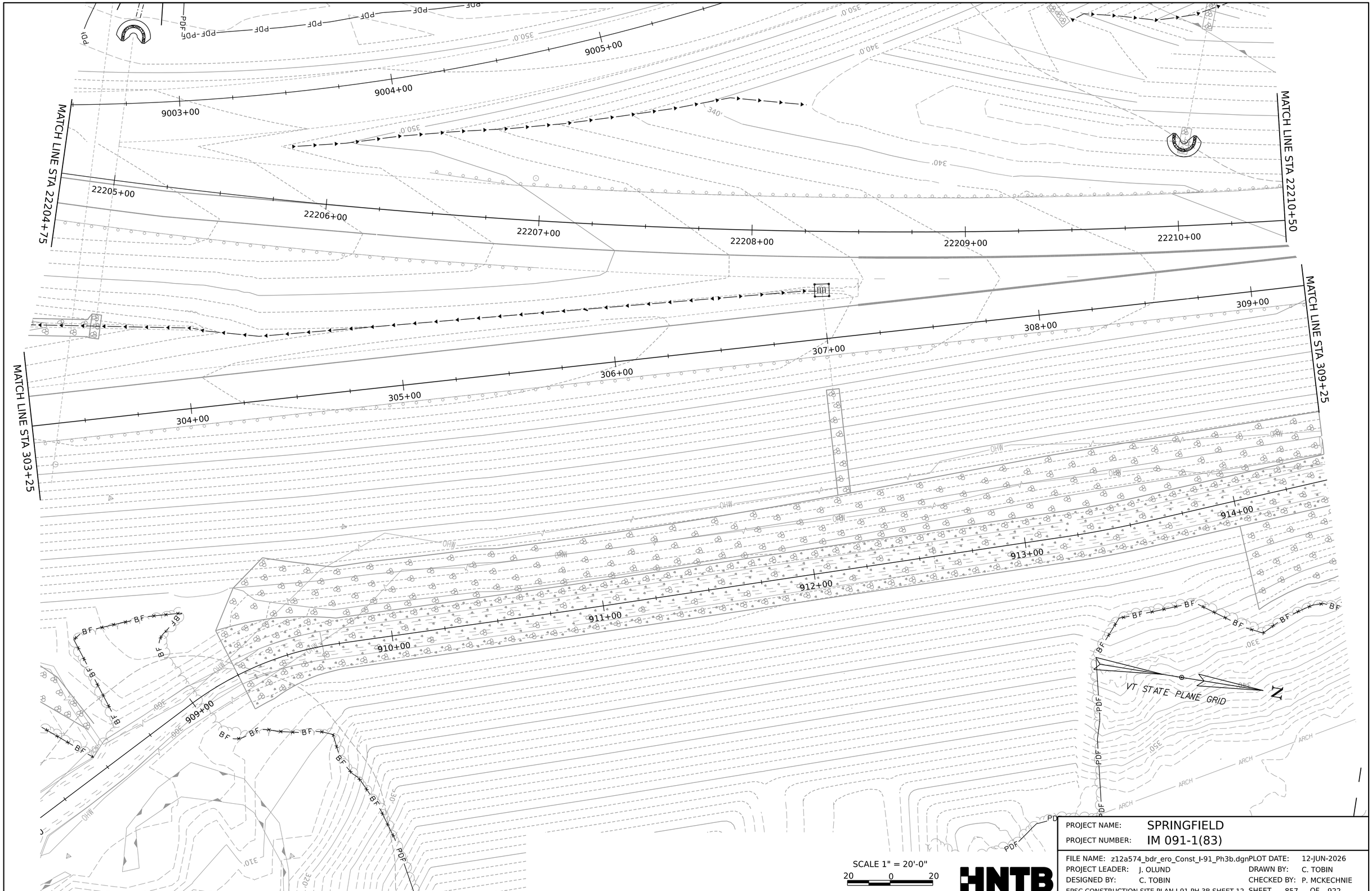
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 10		SHEET	855 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

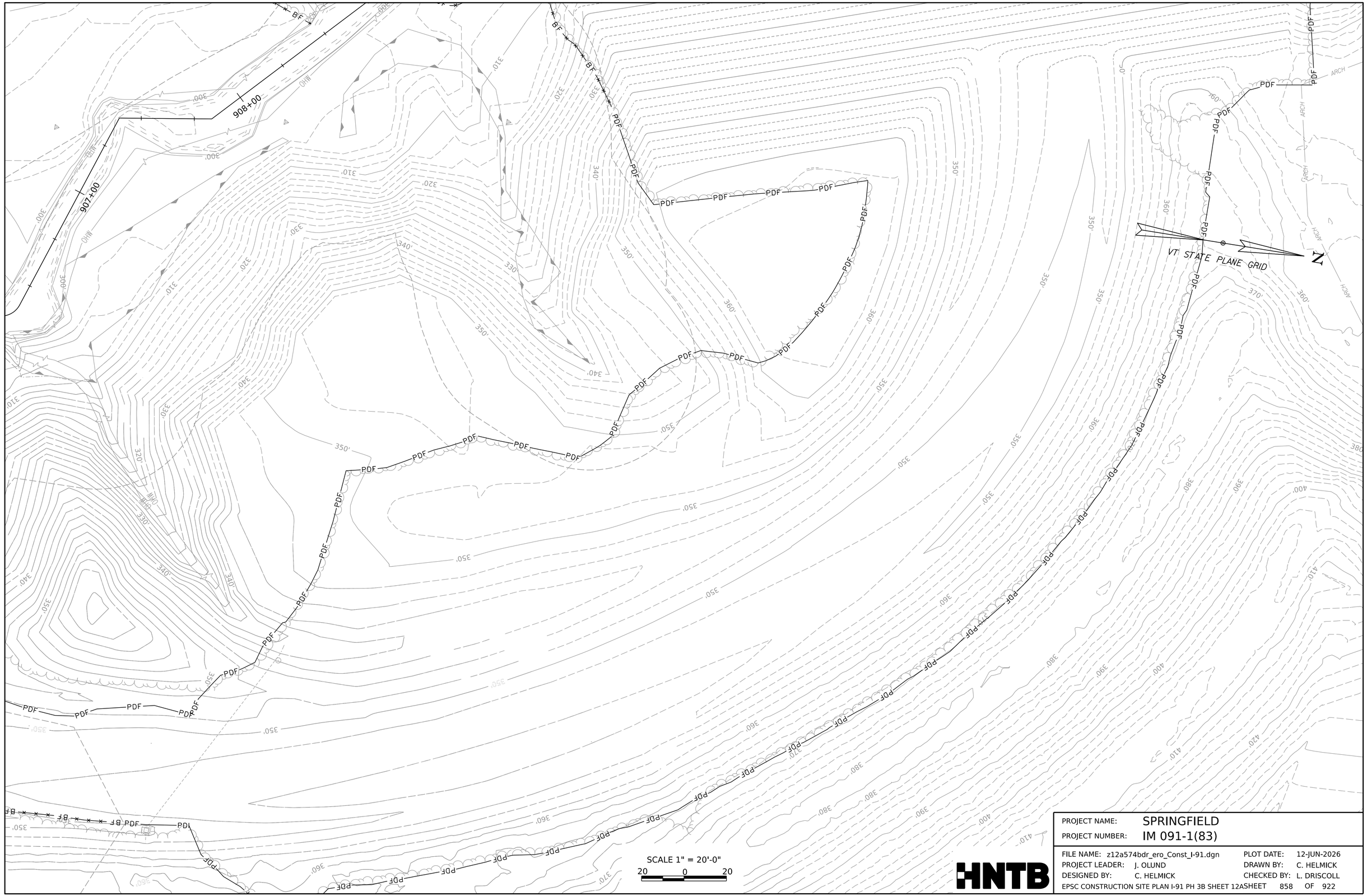
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 11		SHEET	856 OF 922

HNTB



HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 12		SHEET 857	OF 922



PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 12A		SHEET	858 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

22211+00

22212+00

22213+00

22214+00

22215+00

22216+00

310+00

311+00

915+00

916+00

917+00

918+00

919+00

920+00

VT STATE PLANE GRID

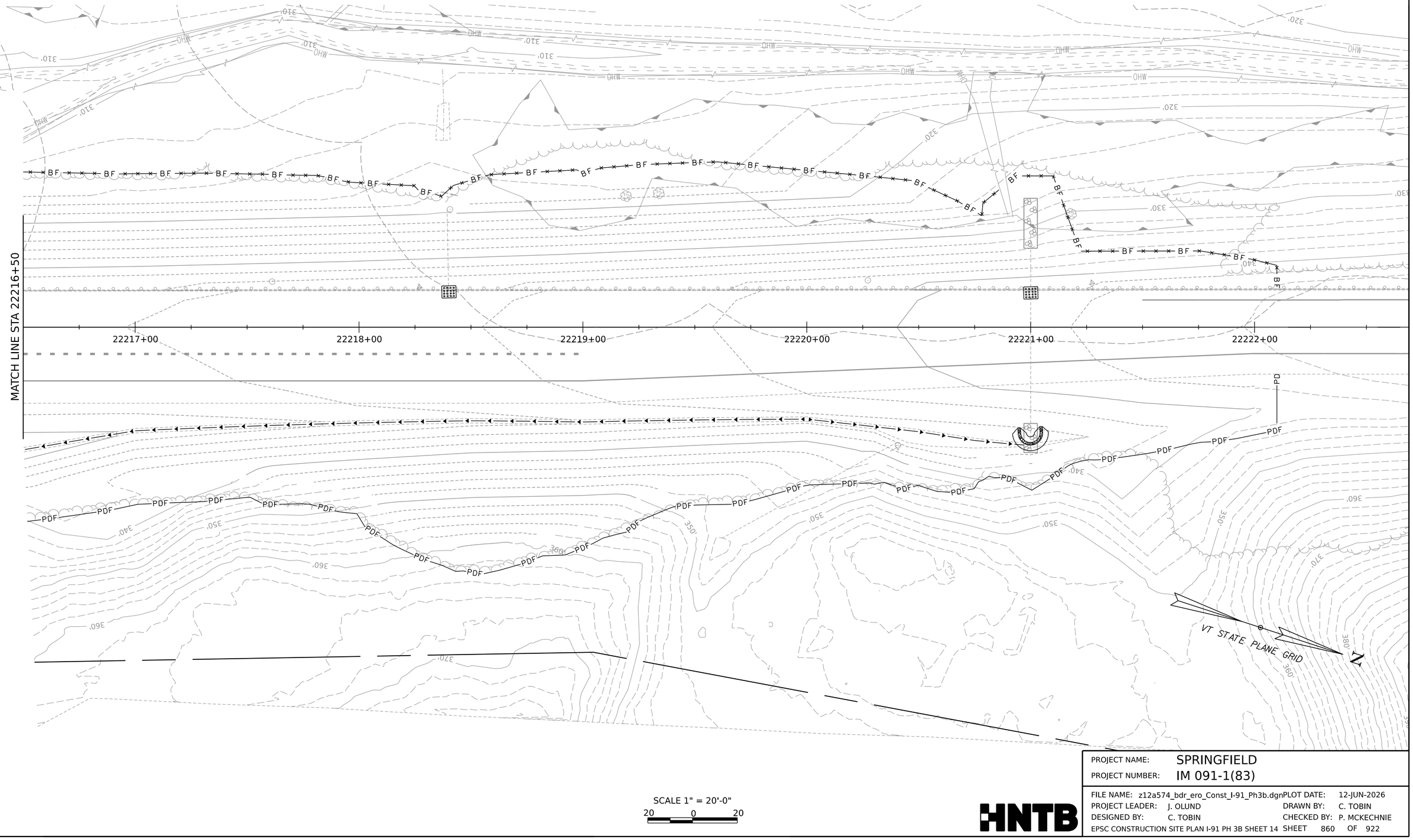
N

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 13	SHEET 859 OF 922



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 14		SHEET 860	OF 922

VT STATE PLANE GRID

AER E&T

STA 400+75

STA 12194+50

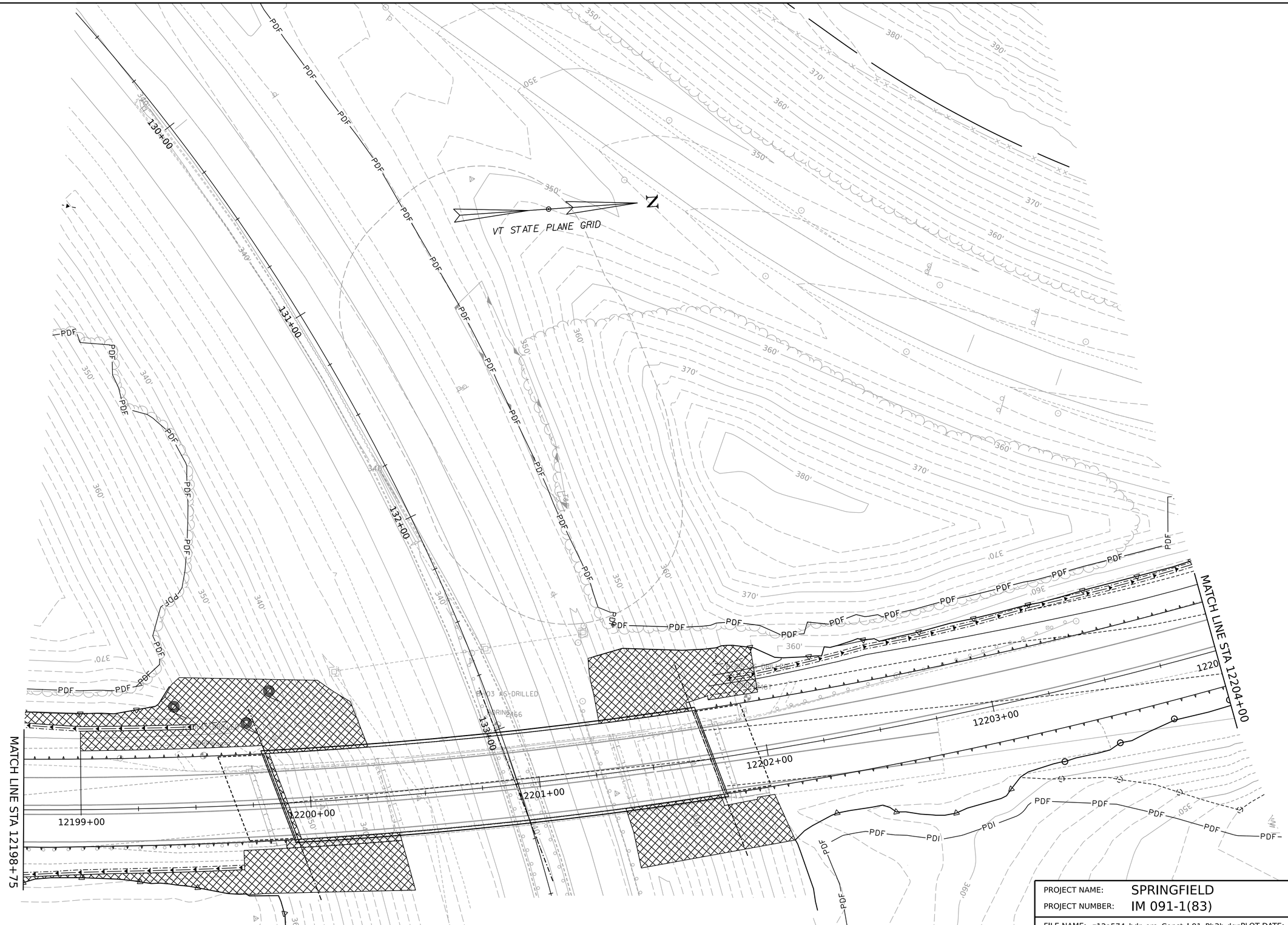
MATCH LINE STA 12198+75

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 15	SHEET 861 OF 922

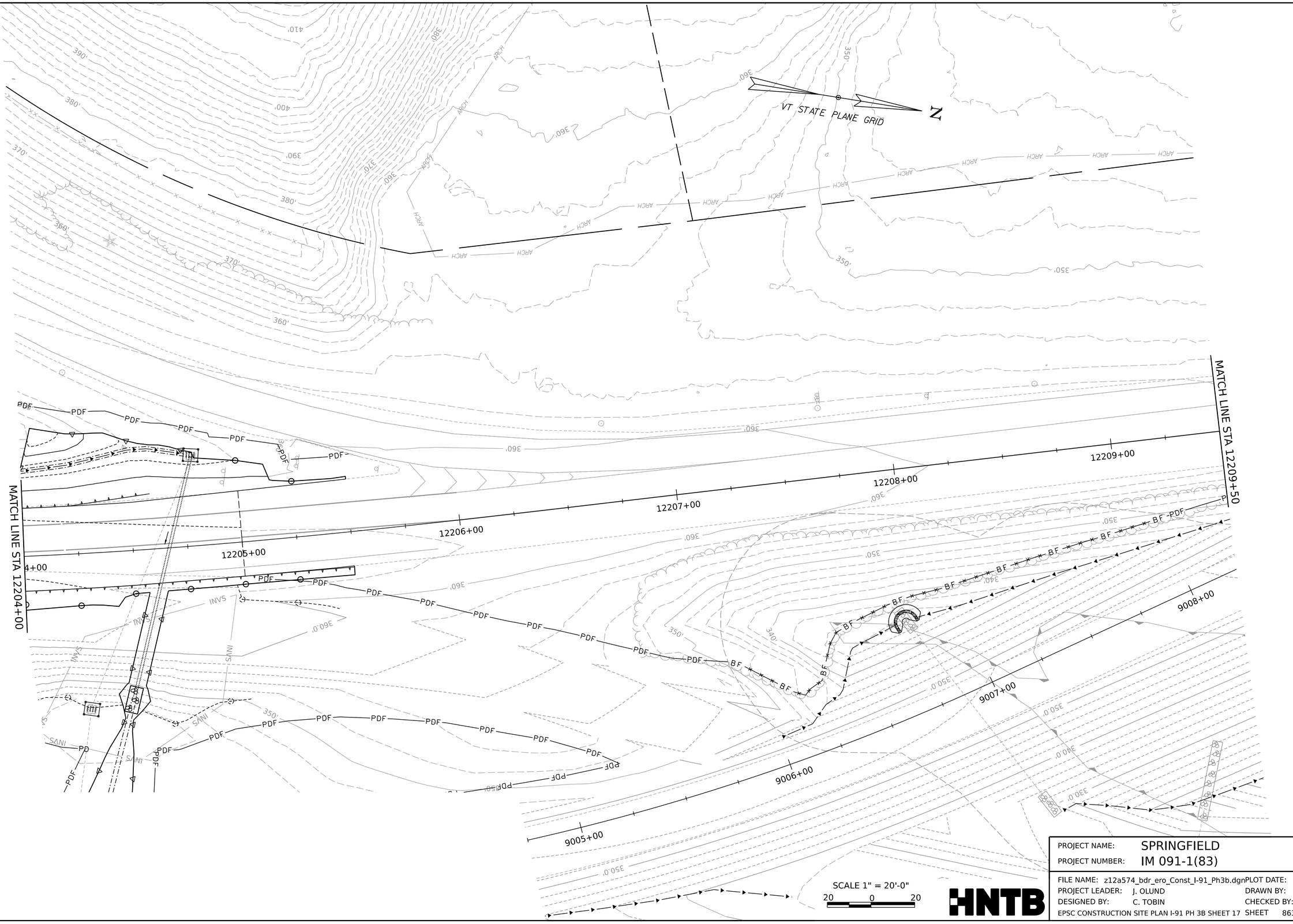
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 16		SHEET	862 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 17		SHEET	863 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

12210+00 12211+00 12212+00 12213+00 12214+00 12215+00

9009+00 9010+00 9011+00 9012+00 9013+00 9014+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 18	SHEET 864 OF 922

HNTB

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

9015+00

12217+00

12218+00

12219+00

12220+00

12221+00

PDF

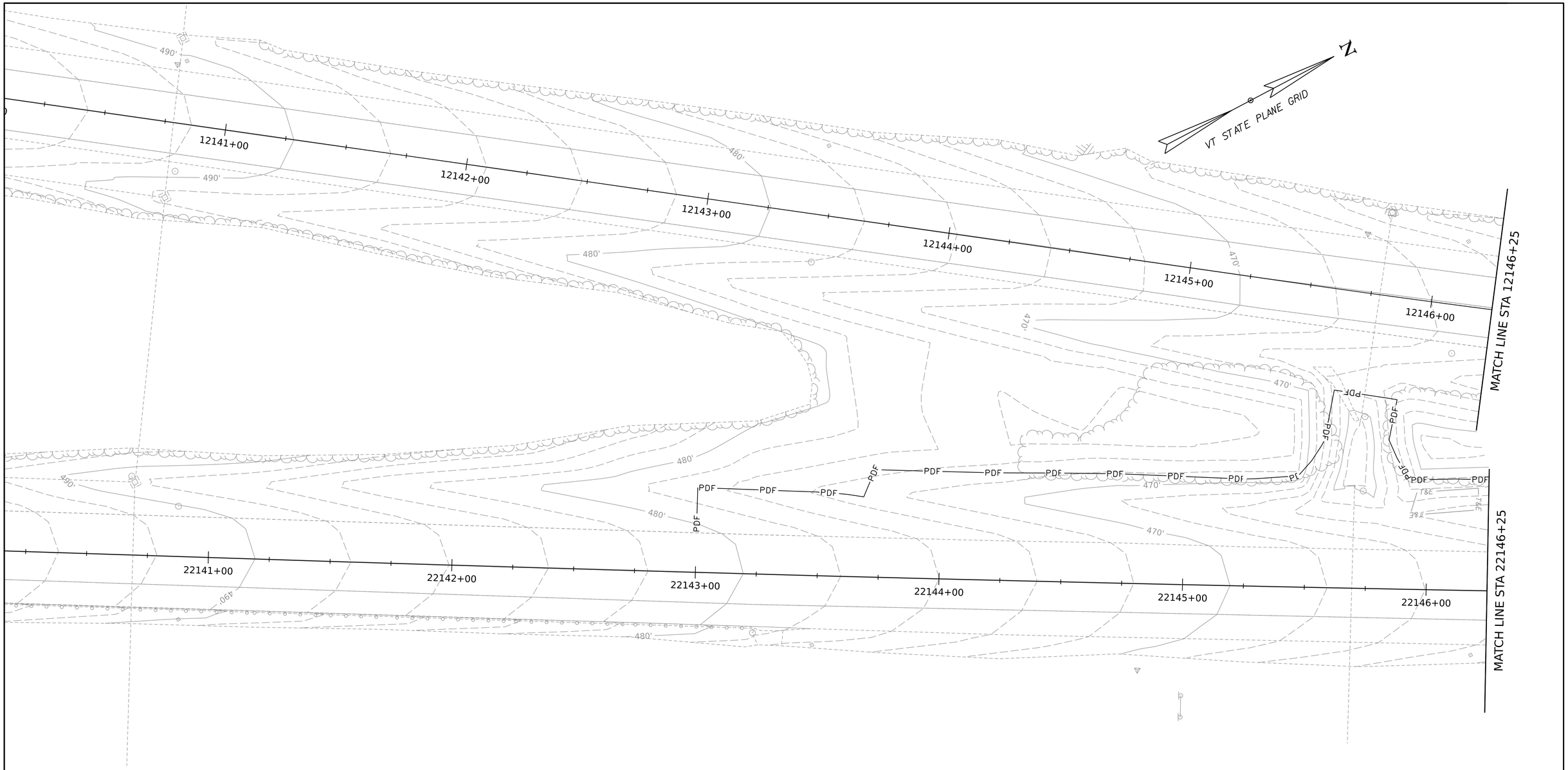
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

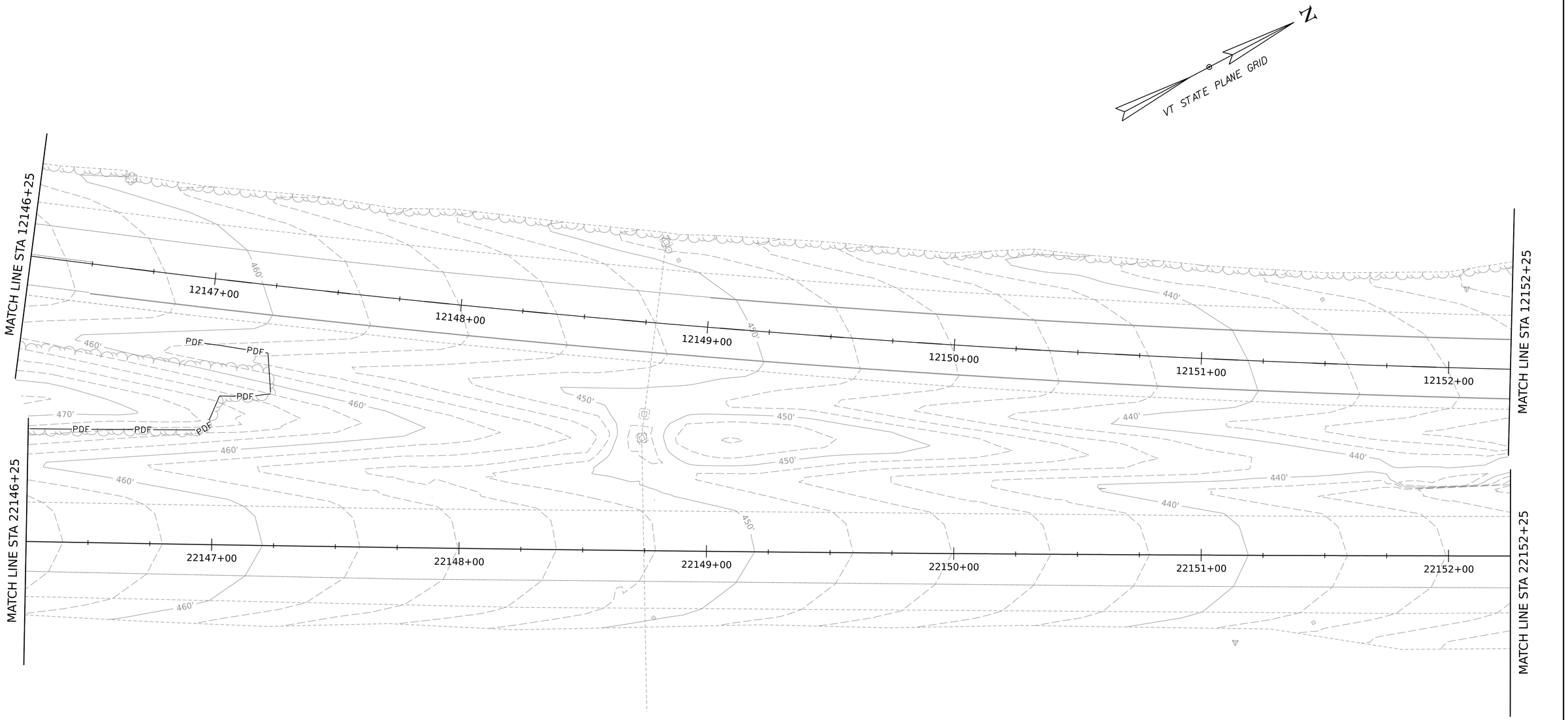
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph3b.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 3B SHEET 19		SHEET	865 OF 922



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 1		SHEET 866	OF 922



SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 2		SHEET 867	OF 922

N

VT STATE PLANE GRID

MATCH LINE STA 12152+25

12153+00 12154+00 12155+00 12156+00 12157+00 12158+00

MATCH LINE STA 12158+25

MATCH LINE STA 22152+25

22153+00 22154+00 22155+00 22156+00 22157+00 22158+00

MATCH LINE STA 22158+25

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 3	SHEET 868 OF 922

HNTB

N

VT STATE PLANE GRID

MATCH LINE STA 12158+25

MATCH LINE STA 12164+25

MATCH LINE STA 22158+25

MATCH LINE STA 22164+25

12159+00 12160+00 12161+00 12162+00 12163+00 12164+00

22159+00 22160+00 22161+00 22162+00 22163+00 22164+00

1091+00 1090+00 1089+00 1088+00 1087+00 1086+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 4		SHEET 869	OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

PDF

370'

360'

350'

310'

ARCH

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 5	SHEET 870 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 6	SHEET 871 OF 922

HNTB

MATCH LINE STA 12176+40

MATCH LINE STA 22176+40

MATCH LINE STA 12182+50

MATCH LINE STA 22182+50

12177+00 12178+00 12179+00 12180+00 12181+00 12182+00

22177+00 22178+00 22179+00 22180+00 22181+00 22182+00

800+00 801+00 802+00 803+00

N

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 7		SHEET 872	OF 922

EXISTING R.O.W.

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

N

VT STATE PLANE GRID

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 8	SHEET 873 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12188+60

MATCH LINE STA 22188+60

STA 400+75

STA 12194+50

STA 22194+50

STA 204+25

400+00

12189+00 12190+00 12191+00 12192+00 12193+00 12194+00

22189+00 22190+00 22191+00 22192+00 22193+00 22194+00

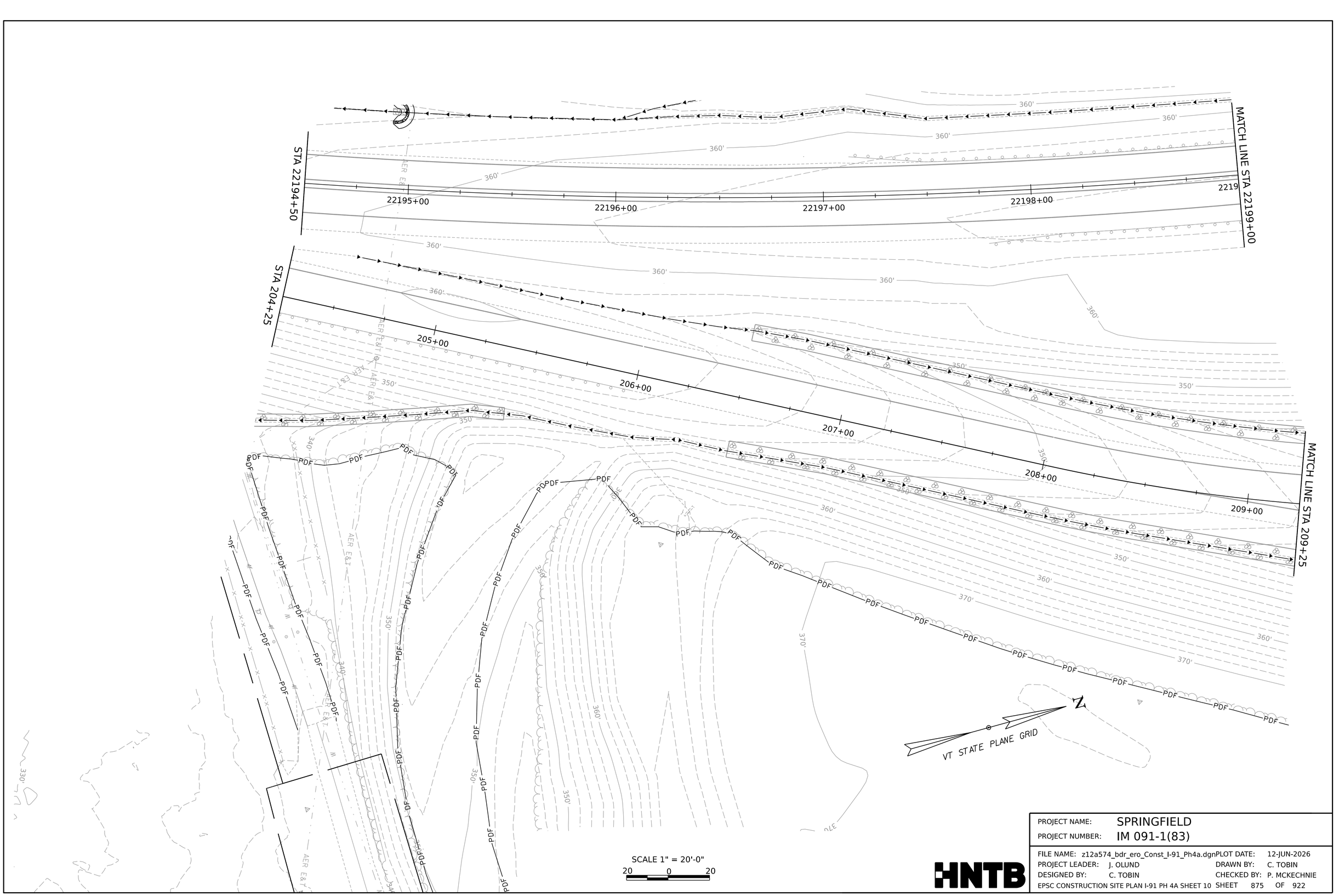
200+00 201+00 202+00 203+00 204+00

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 9	SHEET 874 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 10	SHEET 875 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET SHEET		876	OF 922

HNTB

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

304+00 305+00 306+00 307+00 308+00 309+00

22205+00 22206+00 22207+00 22208+00 22209+00 22210+00

910+00 911+00 912+00 913+00 914+00

909+00

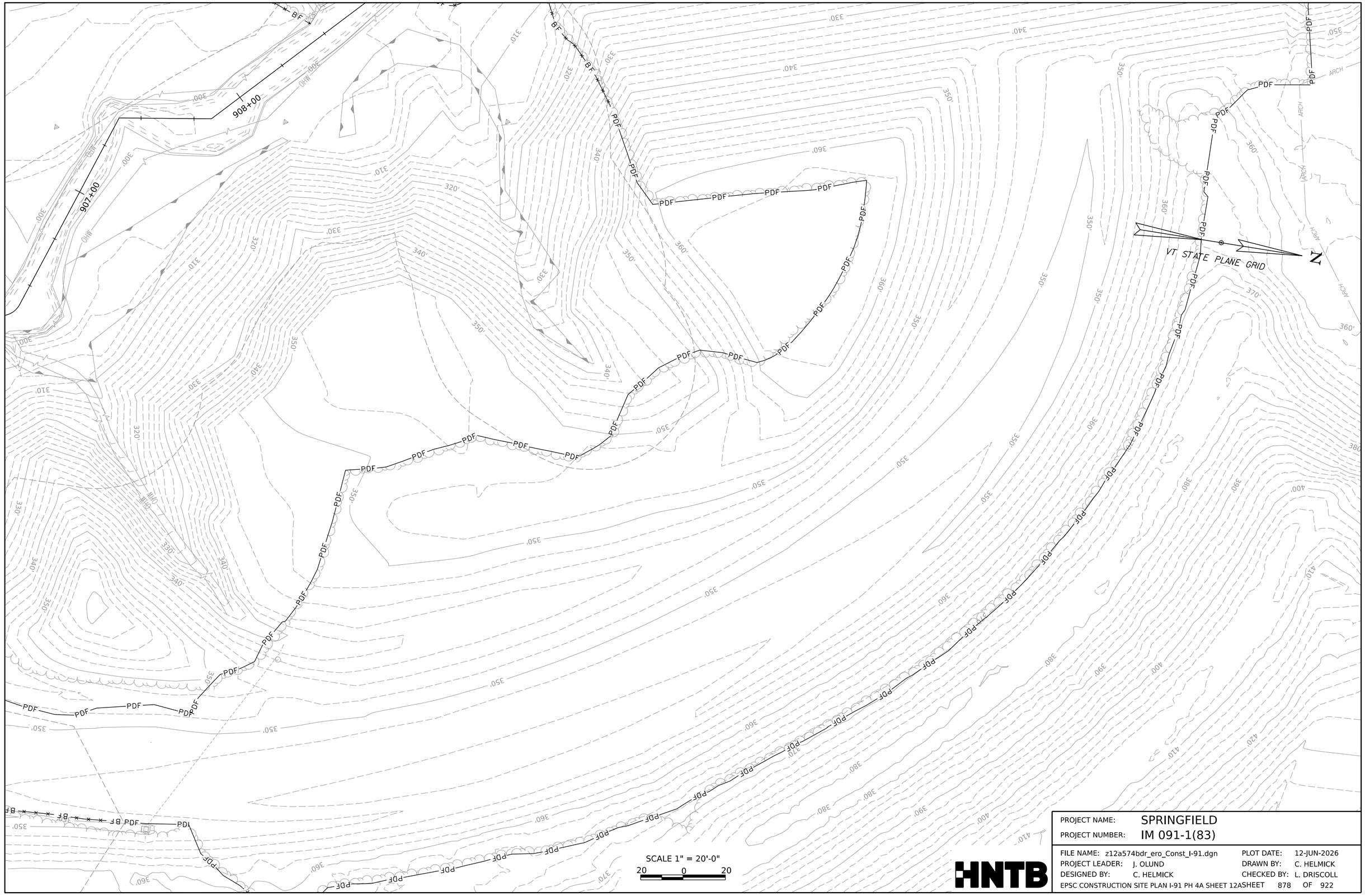
SCALE 1" = 20'-0"

20 0 20

VT STATE PLANE GRID

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 12	SHEET 877 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_Const_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. HELMICK
DESIGNED BY:	C. HELMICK	CHECKED BY:	L. DRISCOLL
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 12A		SHEET	878 OF 922

HNTB

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

22211+00 22212+00 22213+00 22214+00 22215+00 22216+00

310+00 311+00

915+00 916+00 917+00 918+00 919+00 920+00

SCALE 1" = 20'-0"

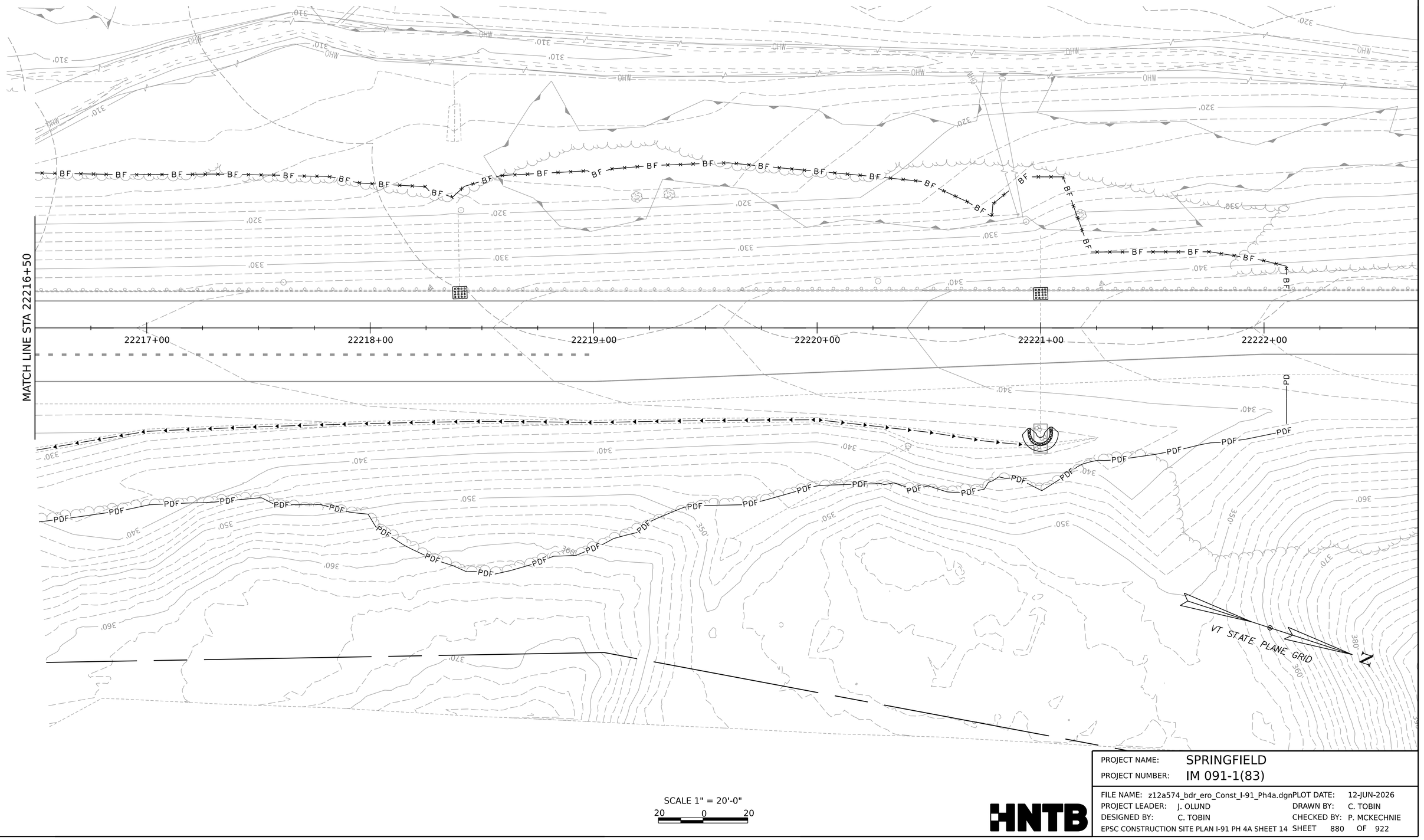
20 0 20

VT STATE PLANE GRID

N

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 13	SHEET 879 OF 922



SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 14		SHEET	880 OF 922

N

VT STATE PLANE GRID

AER E&T

STA 400+75

401+00

402+00

403+00

404+00

405+00

STA 12194+50

12195+00

12196+00

12197+00

12198+00

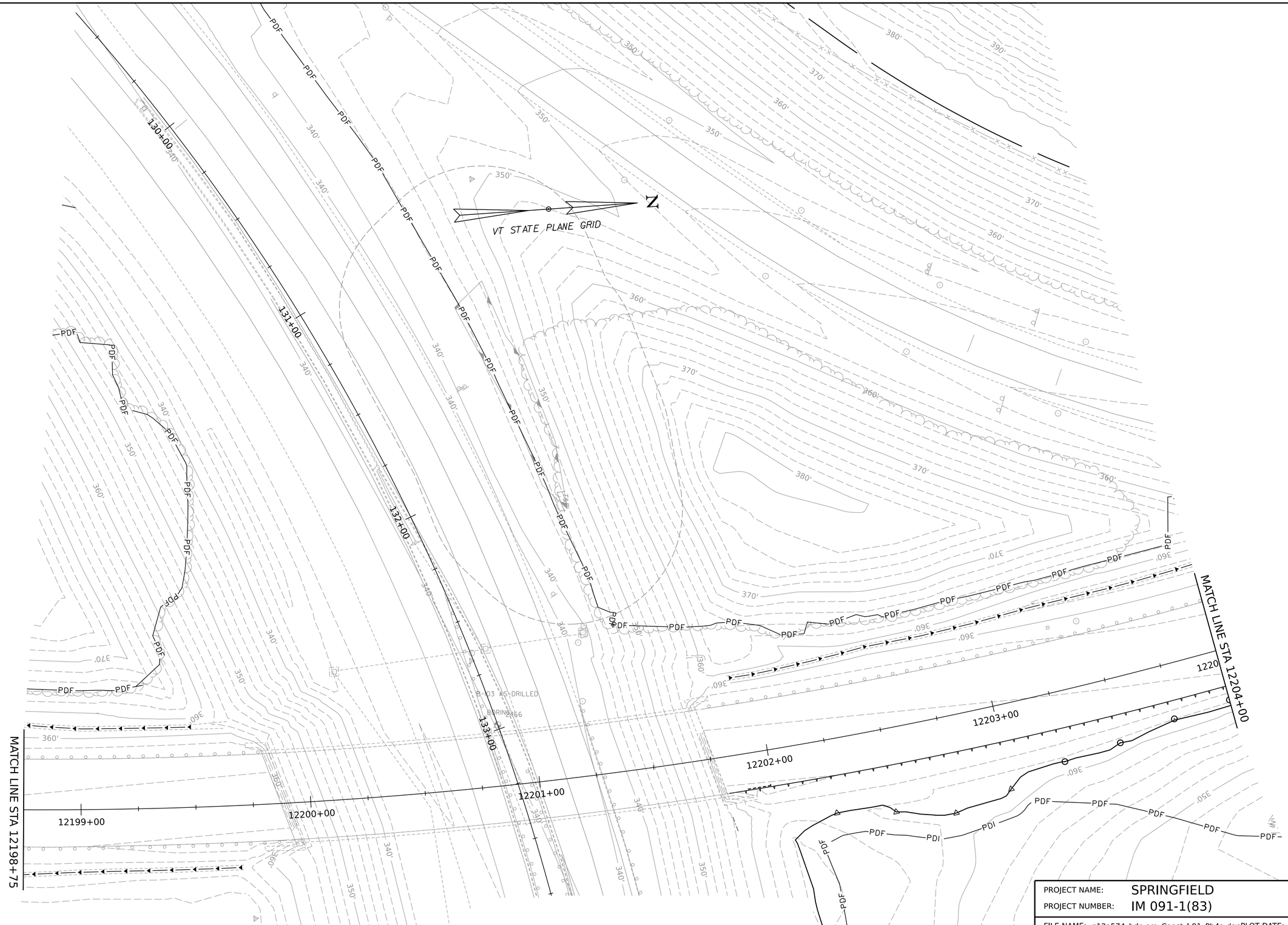
MATCH LINE STA 12198+75

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 15		SHEET 881	OF 922

HNTB

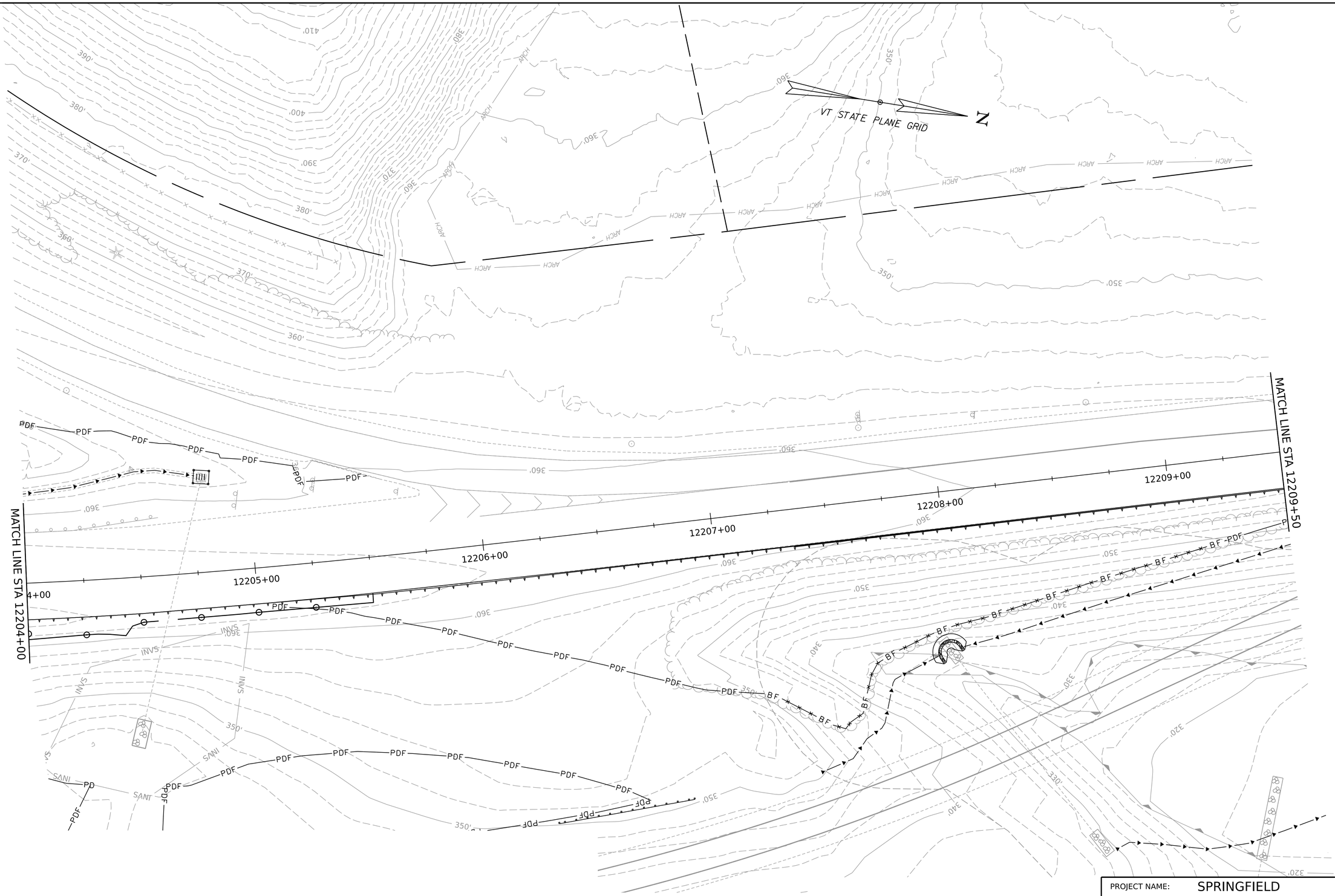


SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 16		SHEET	882 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 17	SHEET 883 OF 922

HNTB

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

12210+00

12211+00

12212+00

12213+00

12214+00

12215+00

VT STATE PLANE GRID

N

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 18	SHEET 884 OF 922

VT STATE PLANE GRID

N

MATCH LINE STA 12215+30

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

PDF

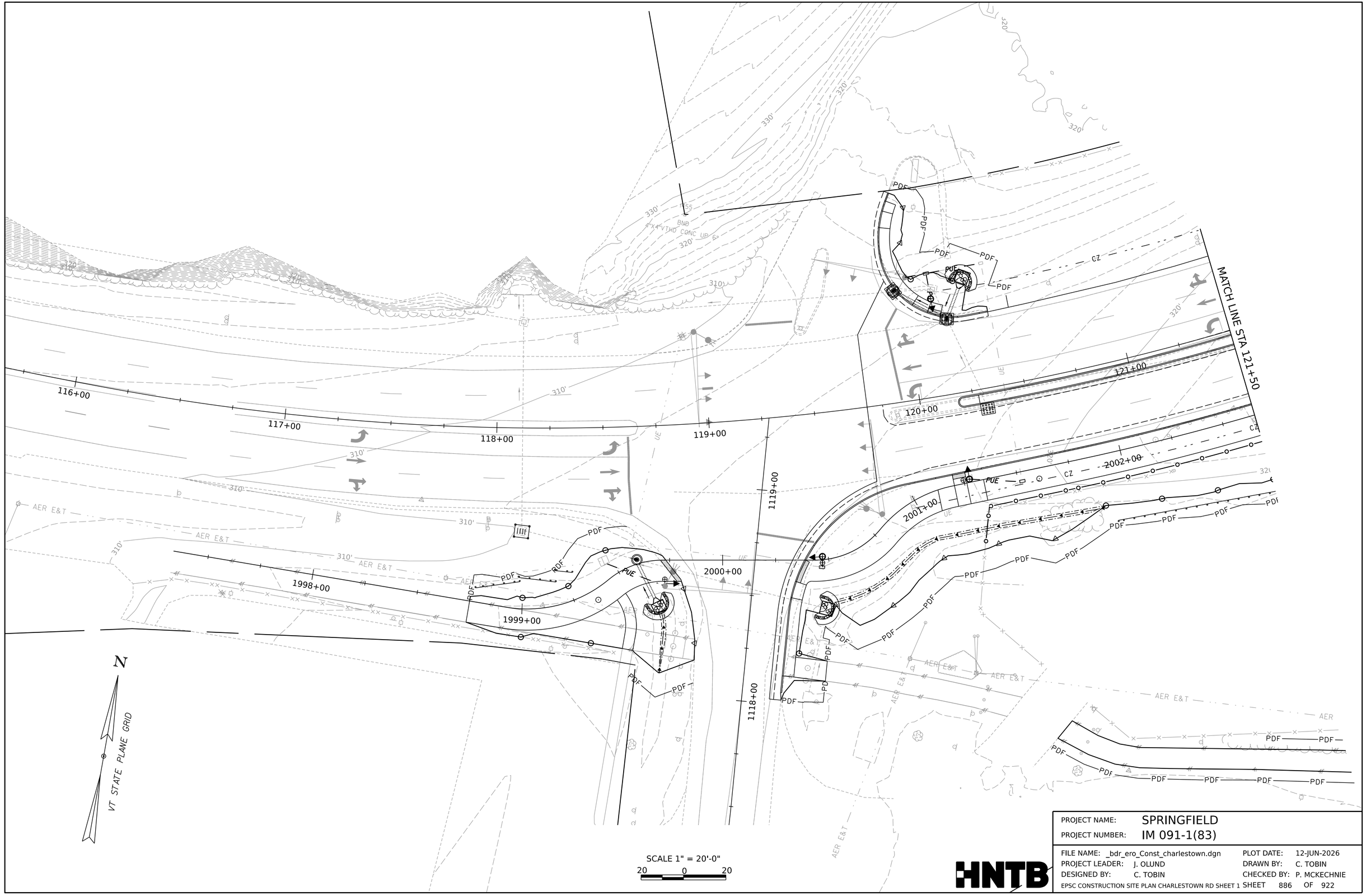
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574_bdr_ero_Const_I-91_Ph4a.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN I-91 PH 4A SHEET 19		SHEET	885 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_Const_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 1	SHEET 886 OF 922

HNTB

MATCH LINE STA 121+50

MATCH LINE STA 126+75

122+00

123+00

124+00

125+00

126+00

2003+00

2004+00

2005+00

2006+00

2007+00

2008

320'

330'

CZ

PDF

SANI

INVS

HELD HHED

SIGNIL SIGNAL

N

VT STATE PLANE GRID

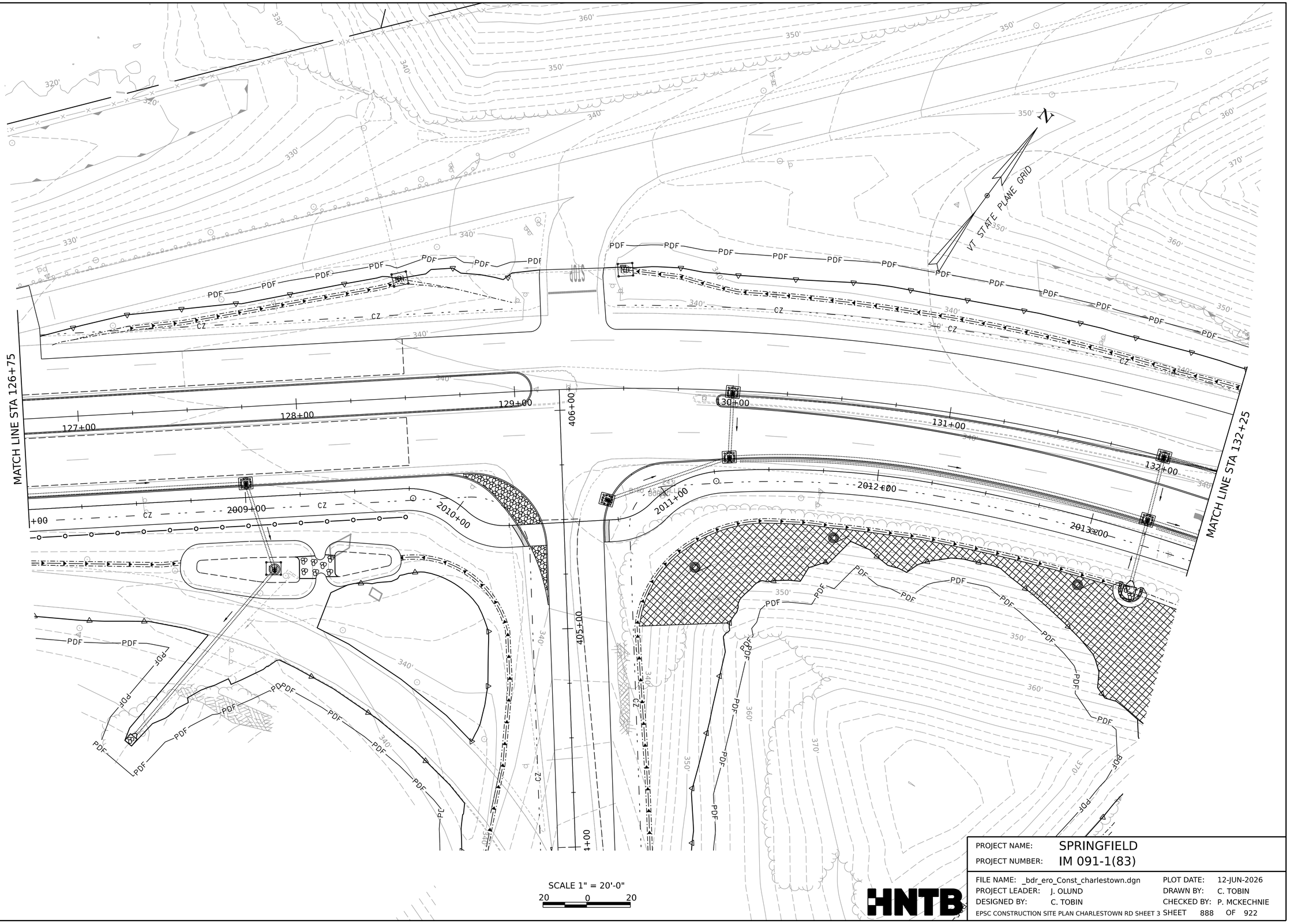
E&T

SCALE 1" = 20'-0"

20 0 20

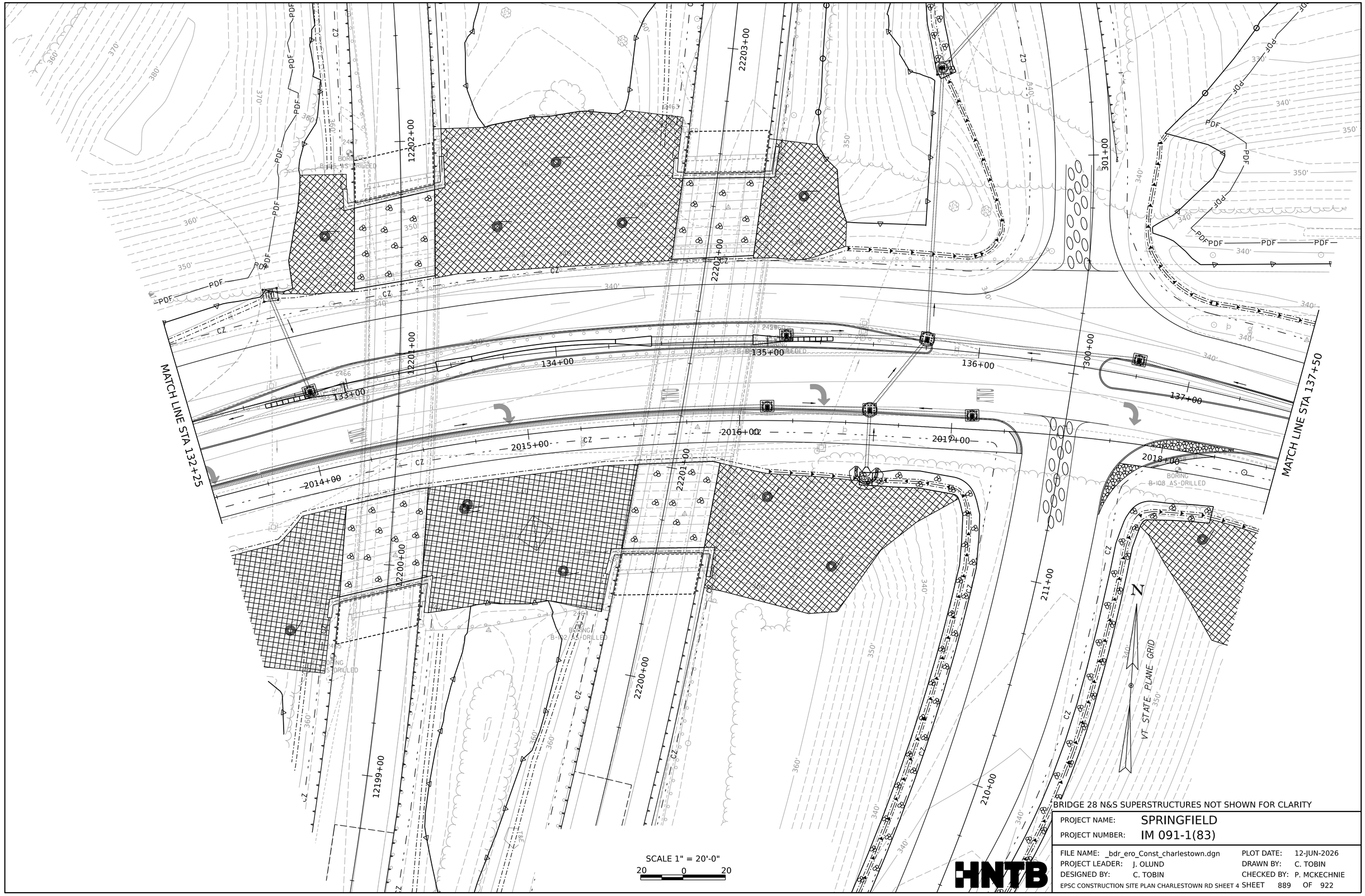
HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME: _bdr_ero_Const_charlestown.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER: J. OLUND		DRAWN BY:	C. TOBIN
DESIGNED BY: C. TOBIN		CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 2		SHEET	887 OF 922



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_Const_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 3	SHEET 888 OF 922

HNTB

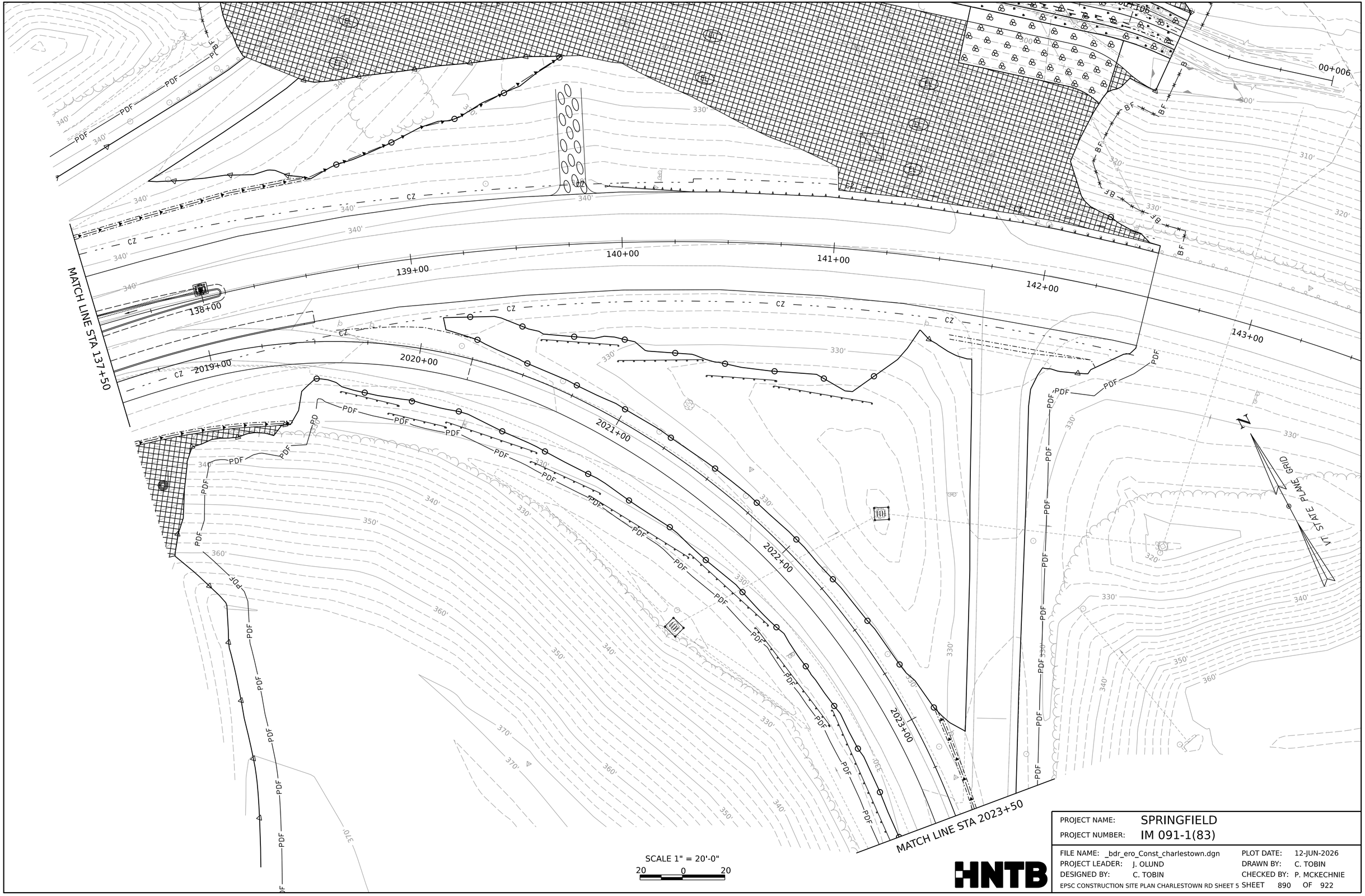


BRIDGE 28 N&S SUPERSTRUCTURES NOT SHOWN FOR CLARITY

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME: _bdr_ero_Const_charlestown.dgn		PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 4		SHEET	889 OF 922

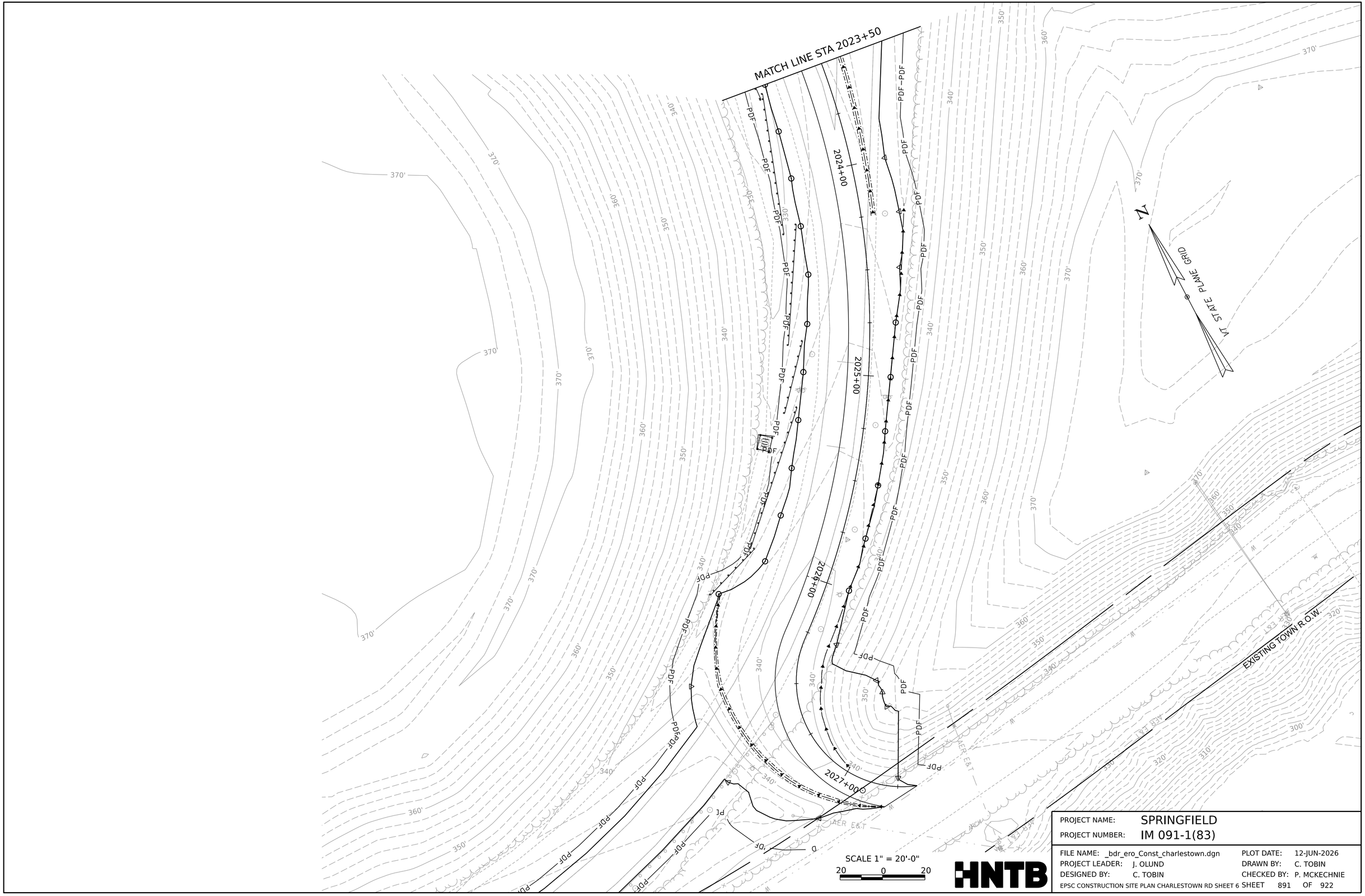
HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	_bdr_ero_Const_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 5		SHEET	890 OF 922

HNTB



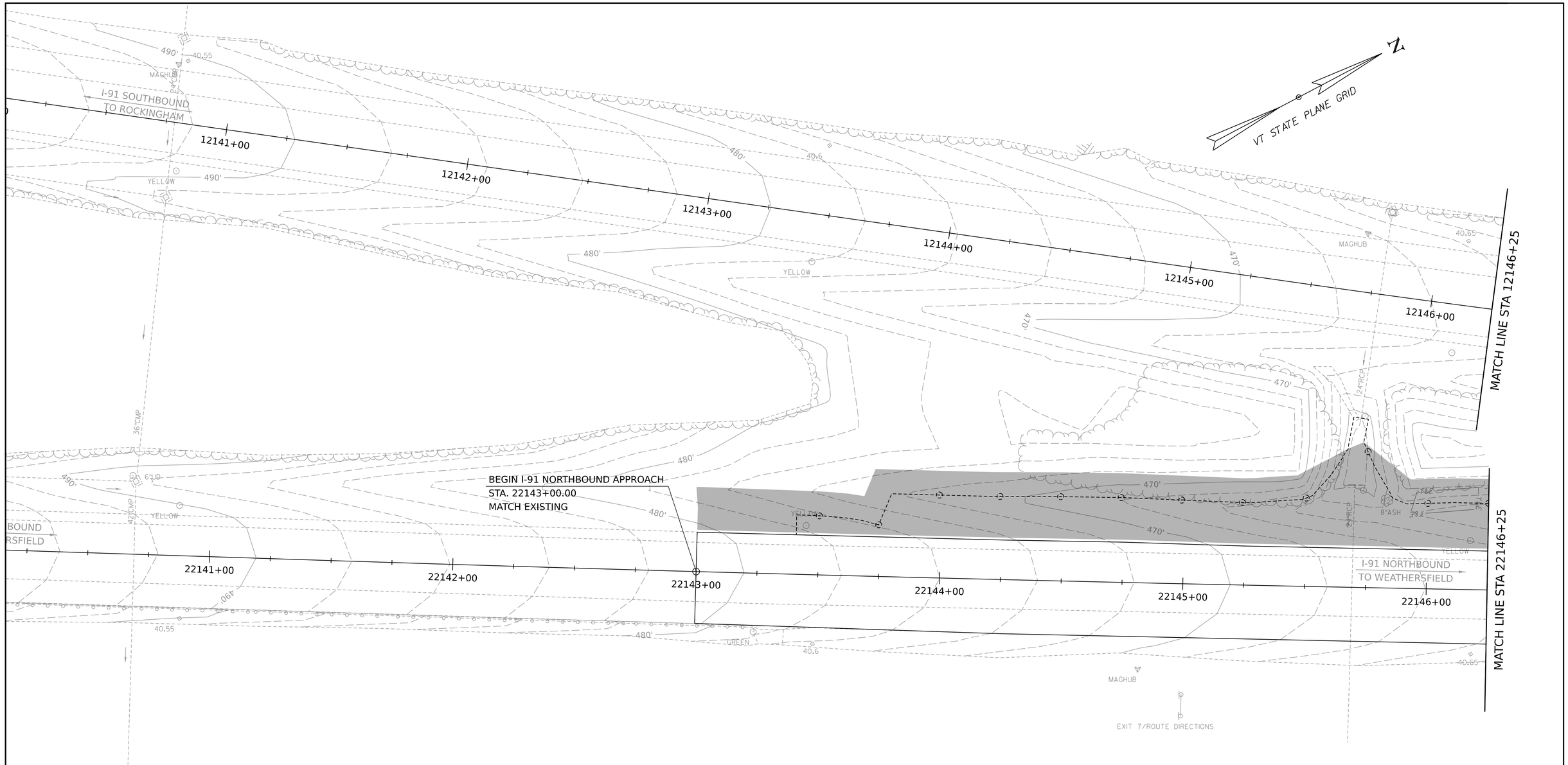
PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_Const_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 6	SHEET 891 OF 922

HNTB



PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: _bdr_ero_Const_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC CONSTRUCTION SITE PLAN CHARLESTOWN RD SHEET 7	SHEET 892 OF 922

HNTB



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

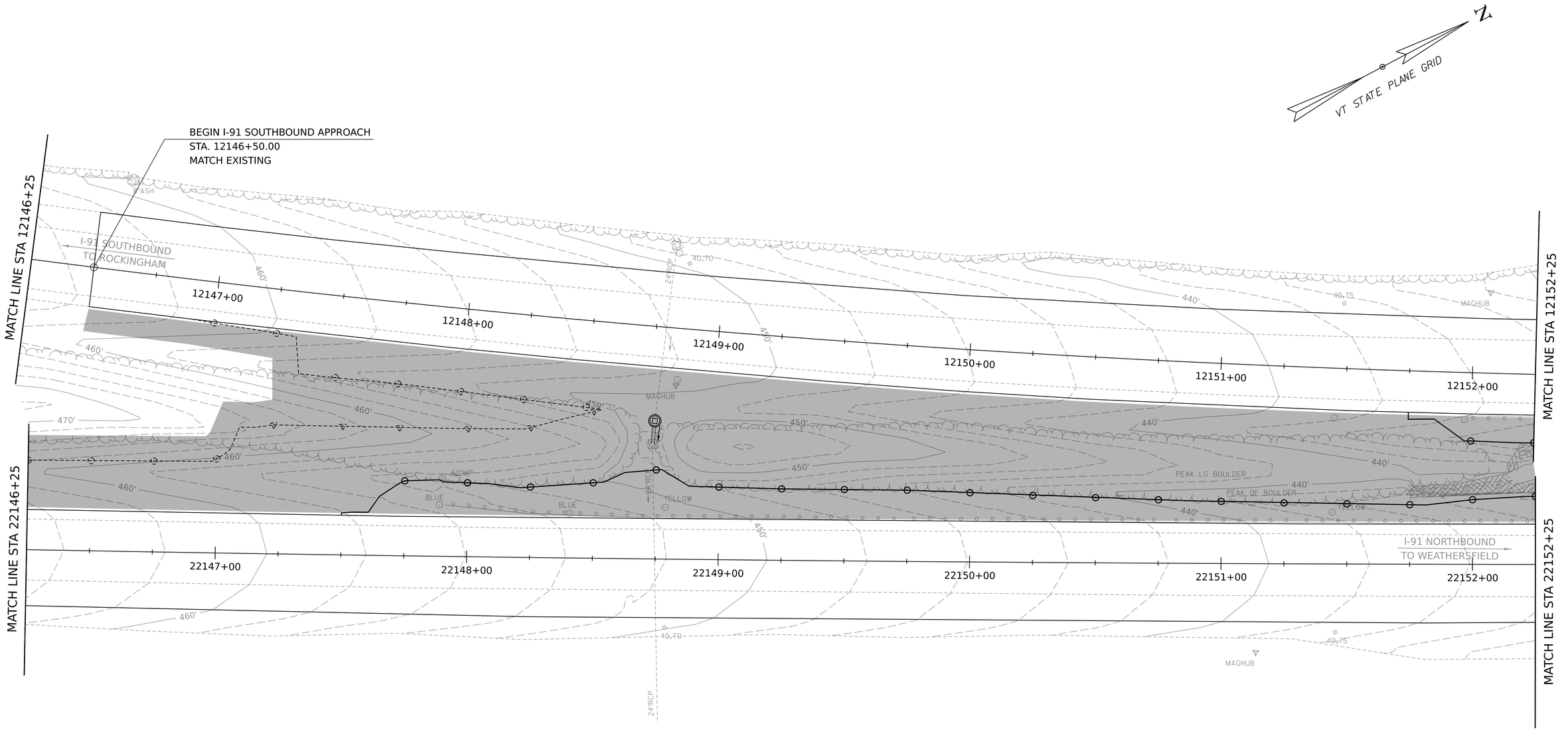
1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 1		SHEET	893 OF 922



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (6.89 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

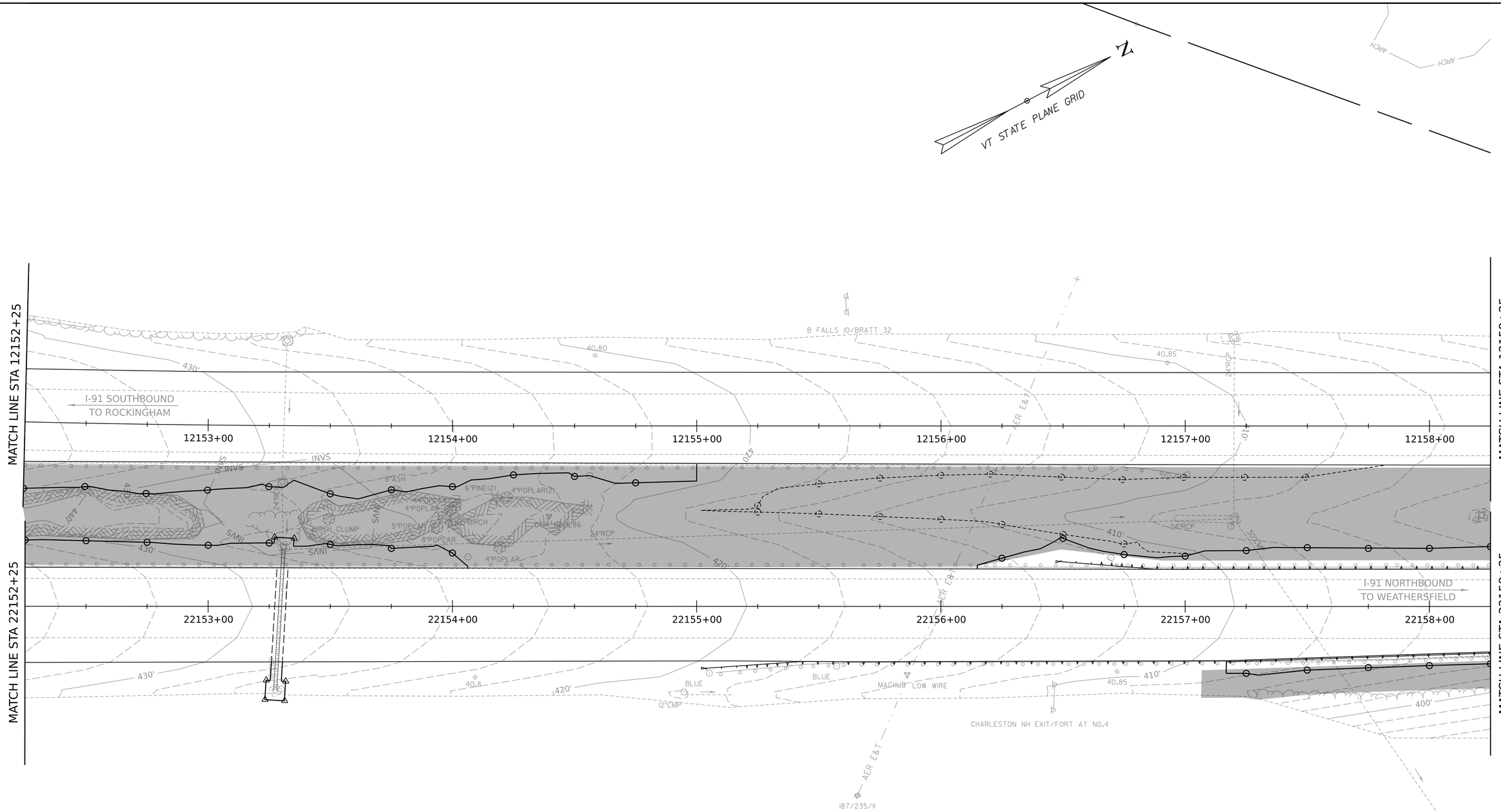
NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 2		SHEET	894 OF 922



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

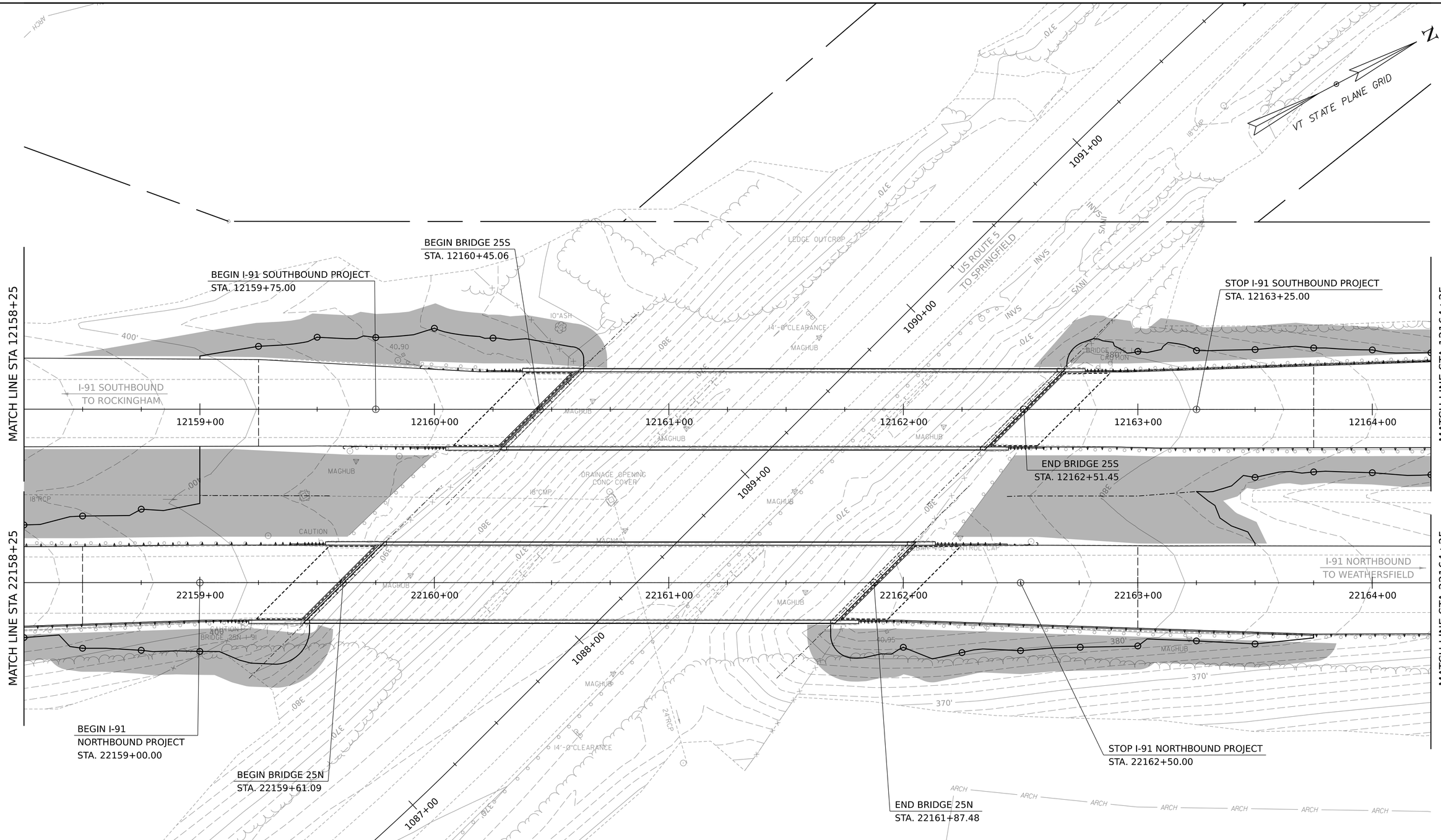
NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 3	SHEET 895 OF 922



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 4		SHEET	896 OF 922

EXISTING R.O.W.

VT STATE PLANE GRID

MATCH LINE STA 12164+25

MATCH LINE STA 12170+25

I-91 SOUTHBOUND
TO ROCKINGHAM

12165+00 12166+00 12167+00 12168+00 12169+00 12170+00

5'-8" REBAR VSE CONTROL CAP

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22164+25

MATCH LINE STA 22170+25

22165+00 22166+00 22167+00 22168+00 22169+00 22170+00

MACHUB

EXIT 7/SFIELD 1/2MI/NEXT 10MI

BRIDGE ICES BEFORE ROAD

24"CMP

18"CMP

ARCH

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 5		SHEET	897 OF 922

EXISTING R.O.W.

N

VT STATE PLANE GRID

MATCH LINE STA 12170+25

MATCH LINE STA 12176+40

SOUTH I-91

I-91 SOUTHBOUND
TO ROCKINGHAM

12171+00 12172+00 12173+00 12174+00 12175+00 12176+00

EMER STOPPING ONLY 72' WIDE

18" CMP

I-91 NORTHBOUND
TO WEATHERSFIELD

22171+00 22172+00 22173+00 22174+00 22175+00 22176+00

BLACK RIVER

VAOT POLLINATOR WET

MATCH LINE STA 22170+25

MATCH LINE STA 22176+40

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

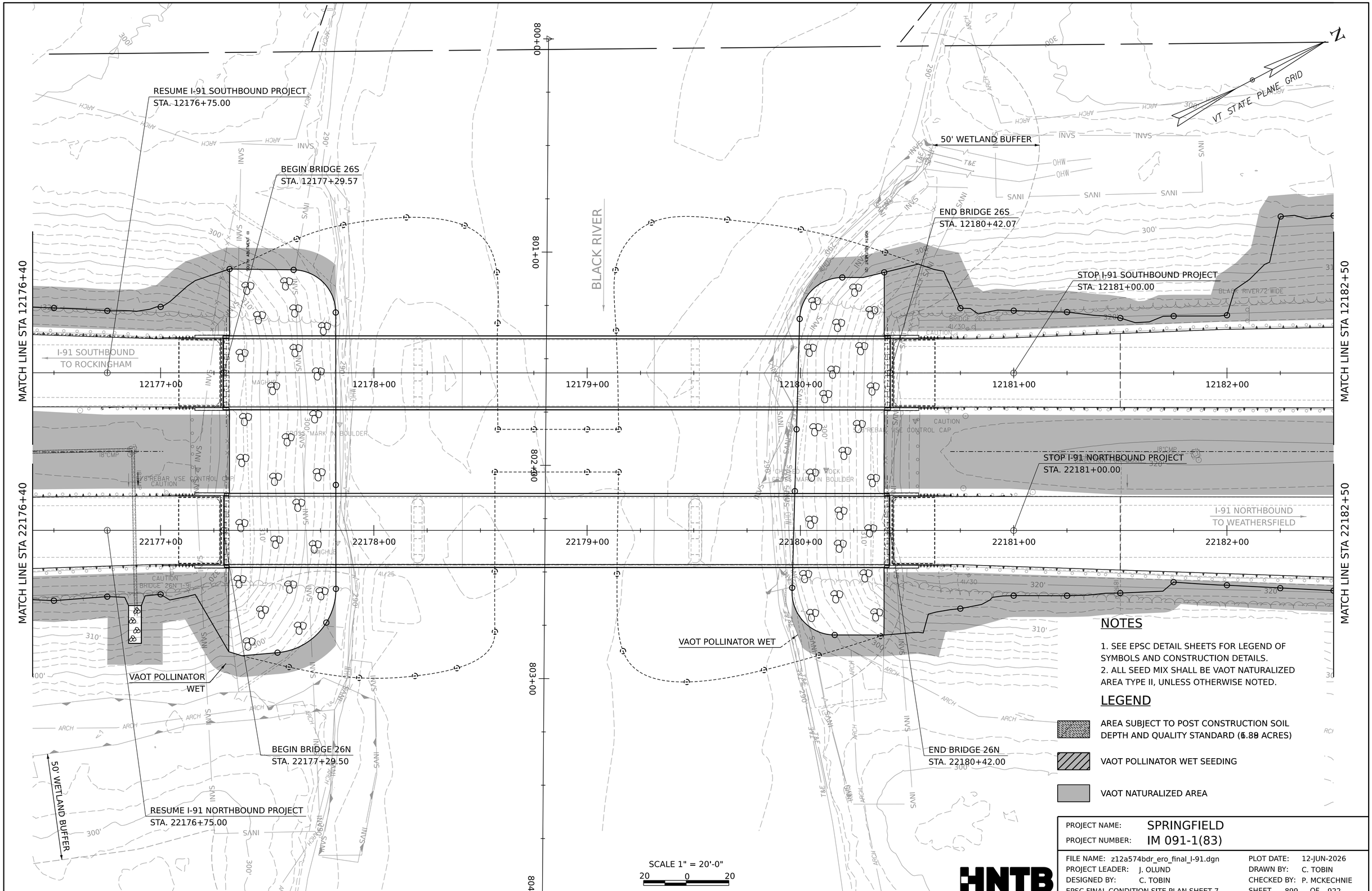
SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 6		SHEET	898 OF 922



NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (6.89 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 7		SHEET 899	OF 922

EXISTING R.O.W.

VAOT POLLINATOR WET

VAOT NATURALIZED AREA

VT STATE PLANE GRID

MATCH LINE STA 12182+50

MATCH LINE STA 12188+60

12183+00 12184+00 12185+00 12186+00 12187+00 12188+00

I-91 SOUTHBOUND
TO ROCKINGHAM

BRIDGE IDES BEFORE ROAD

MAGHUB

NO U-TURN/2'WIDE

5/8"REBAR VSE CONTROL CAP

NO U-TURN/2'WIDE

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22182+50

MATCH LINE STA 22188+60

22183+00 22184+00 22185+00 22186+00 22187+00 22188+00

EXIT INFO

VAOT POLLINATOR WET

50' WETLAND BUFFER

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 8	SHEET 900 OF 922

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (6.39 ACRES)
- VAOT NATURALIZED AREA
- VAOT POLLINATOR WET SEEDING

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

EXISTING R.O.W.

VAOT POLLINATOR WET

VT STATE PLANE GRID

MATCH LINE STA 12188+60

RESUME I-91 SOUTHBOUND PROJECT
STA. 12192+25.00

STA 400+75

STA 12194+50

STOP I-91 SOUTHBOUND PROJECT
STA. 12194+50.00

I-91 SOUTHBOUND
TO ROCKINGHAM

RESUME I-91 NORTHBOUND PROJECT
STA. 22192+75.00

I-91 NORTHBOUND
TO WEATHERSFIELD

STA 22194+50

STA 204+25

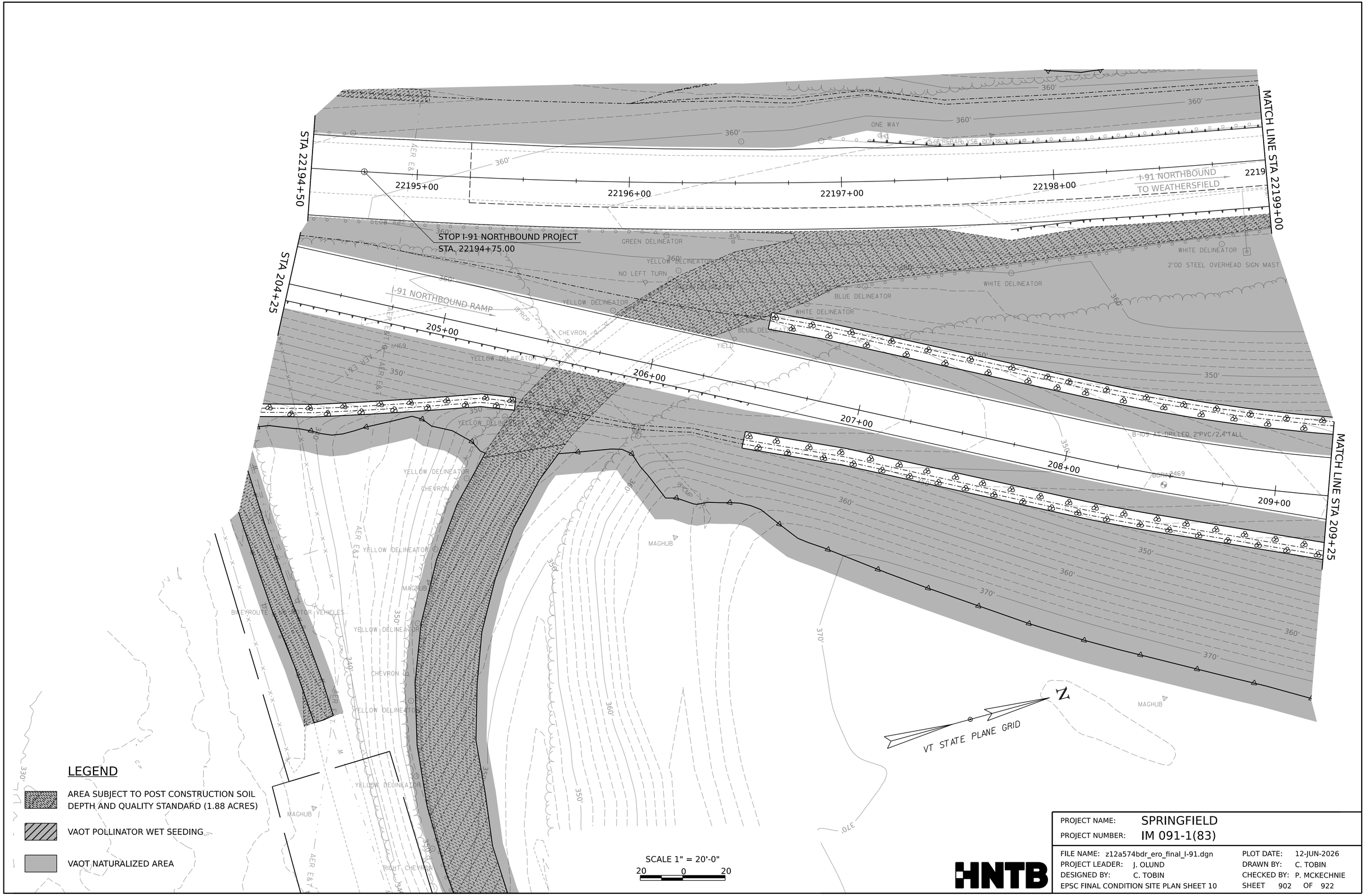
MATCH LINE STA 22188+60

VAOT POLLINATOR WET

50' WETLAND BUFFER

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 9	SHEET 901 OF 922



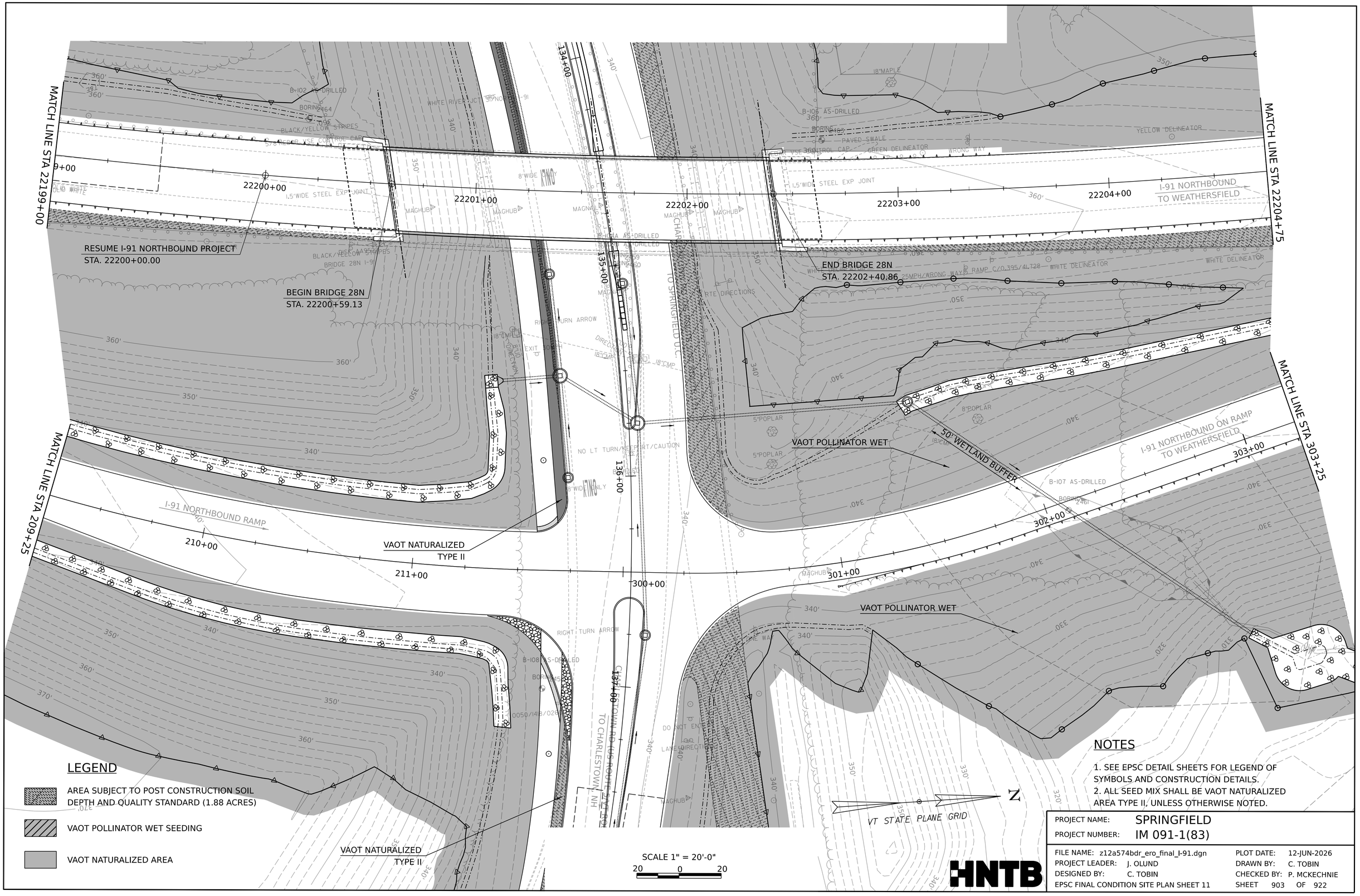
LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 10		SHEET	902 OF 922



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

SCALE 1" = 20'-0"
20 0 20

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 11		SHEET	903 OF 922

HNTB

MATCH LINE STA 303+25

MATCH LINE STA 22204+75

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

END I-91 NORTHBOUND PROJECT
STA. 22208+50.00

BEGIN SPENCER BROOK
STREAM RELOCATION
STA. 909+25.00

I-91 NORTHBOUND ON RAMP
TO WEATHERSFIELD

I-91 NORTHBOUND
TO WEATHERSFIELD

I-91 OFF RAMP
TO CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)

SPENCER BROOK

VAOT POLLINATOR WET

50' WETLAND BUF

VT STATE PLANE GRID

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 12	SHEET 904 OF 922

VT STATE PLANE GRID

N

VAOT POLLINATOR WET

LAND BUFFER

907+00

908+00

SCALE 1" = 20'-0"

20 0 20

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_Final_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. HELMICK
DESIGNED BY: C. HELMICK	CHECKED BY: L. DRISCOLL
EPSC FINAL CONDITIONS SITE PLAN SHEET 12A	SHEET 905 OF 922

HNTB

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

50' WETLAND BUFFER

SPENCER BROOK

50' WETLAND BUFFER

VAOT POLLINATOR WET

MATCH LINE STA 22210+50

MATCH LINE STA 309+25

MATCH LINE STA 22216+50

VAOT POLLINATOR WET

50' WETLAND BUFFER

VT STATE PLANE GRID N

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_I-91.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 13	SHEET 906 OF 922

VT STATE PLANE GRID

N

SPENCER BROOK

50' WETLAND BUFFER

VAOT POLLINATOR WET

END NORTHBOUND APPROACH
STA. 22222+00.00
MATCH EXISTING

I-91 NORTHBOUND
TO WEATHERSFIELD

MATCH LINE STA 22216+50

22217+00 22218+00 22219+00 22220+00 22221+00 22222+00

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
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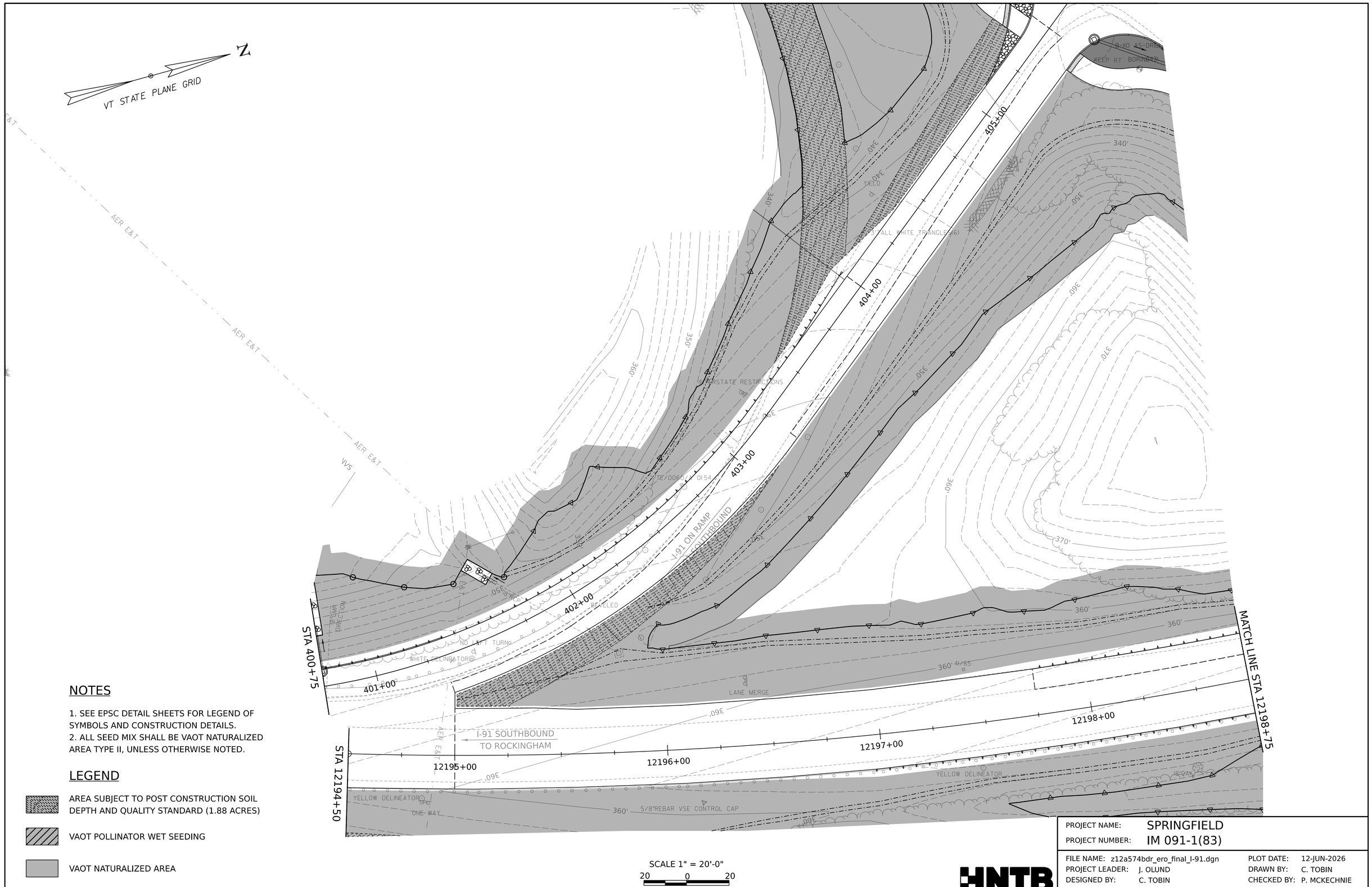
SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 14		SHEET	907 OF 922



NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 15		SHEET	908 OF 922

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

VT STATE PLANE GRID

VAOT NATURALIZED TYPE II

RESUME I-91 SOUTHBOUND PROJECT STA. 12199+25.00

BEGIN BRIDGE 28S STA. 12199+87.62

VAOT POLLINATOR WET

END BRIDGE 28S STA. 12201+75.92

MATCH LINE STA 12198+75

MATCH LINE STA 12204+00

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO SPRINGFIELD

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11) TO CHARLESTOWN, NH

I-91 OFF RAMP

I-91 SOUTHBOUND TO ROCKINGHAM

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 16		SHEET	909 OF 922

HNTB

END I-91 SOUTHBOUND PROJECT
STA. 12204+50.00

MATCH LINE STA 12204+00

MATCH LINE STA 12209+50

I-91 SOUTHBOUND
TO ROCKINGHAM

I-91 OFF RAMP

CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

12204+00
12205+00
12206+00
12207+00
12208+00
12209+00

VT STATE PLANE GRID

N

VAOT POLLINATOR WET

50' WETLAND BUFFER

MAGNAILA

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
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SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 17		SHEET	910 OF 922

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

VT STATE PLANE GRID

MATCH LINE STA 12209+50

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12210+00 12211+00 12212+00 12213+00 12214+00 12215+00

WHITE DELINEATOR

WHITE DELINEATOR

ROUTE DIRECTIONS

WHITE GREEN

WHITE

DASHED WHITE

YELLOW DELINEATOR

VAOT POLLINATOR WET

END SPENCER BROOK
STREAM RELOCATION
STA. 919+00.00

50' WETLAND BUFFER

SPENCER BROOK

MAGHUB

SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 18		SHEET	911 OF 922

VT STATE PLANE GRID

N

50' WETLAND BUFFER

END SOUTHBOUND APPROACH
STA. 12217+00.00
MATCH EXISTING

MATCH LINE STA 12215+30

I-91 SOUTHBOUND
TO ROCKINGHAM

12216+00

12217+00

12218+00

12219+00

12220+00

12221+00

24"CMP

42.0 R

42.05 R

BLUE

YELLOW

MAGNUM

50' WETLAND BUFFER

LEGEND

AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)

VAOT POLLINATOR WET SEEDING

VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_I-91.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 19		SHEET	912 OF 922

N

VT STATE PLANE GRID

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) APPROACH
STA. 119+75.00
MATCH EXISTING

CHARLESTOWN RD (VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN, NH

MISSING LINK RD (US ROUTE 5)
TO ROCKINGHAM

MATCH LINE STA 121+50

STA 1998+75.00
TOONERVILLE SHARED USE PATH
LIMIT OF WORK

VAOT NATURALIZED
TYPE II

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

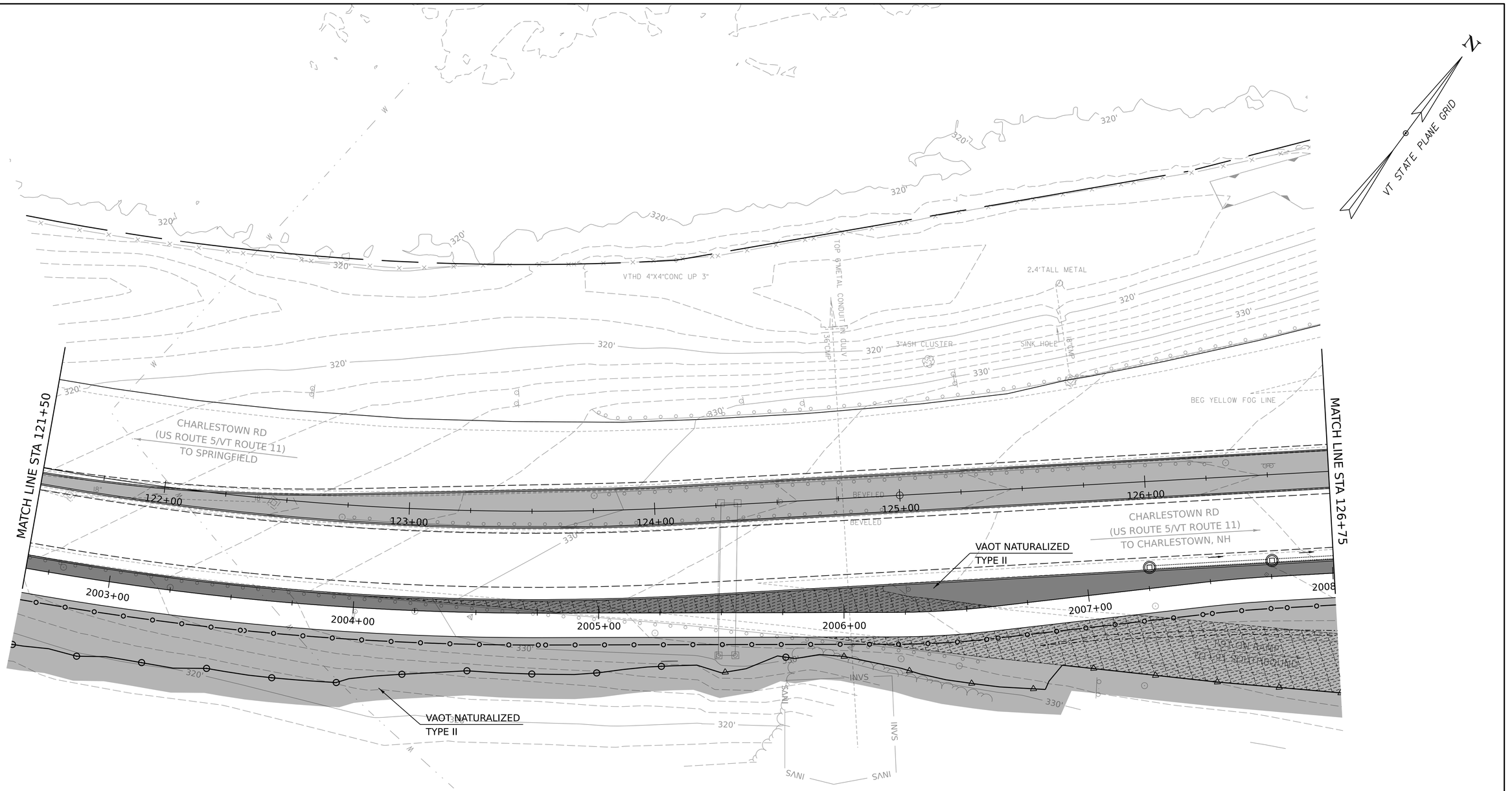
NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 20		SHEET 913	OF 922

HNTB



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 21		SHEET	914 OF 922

BEGIN CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11) PROJECT
STA. 129+00.00

MATCH LINE STA 126+75

MATCH LINE STA 132+25

I-91 OFF RAMP
TO CHARLESTOWN RD (US ROUTE 5/VT ROUTE 11)

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO SPRINGFIELD

CHARLESTOWN RD
(US ROUTE 5/VT ROUTE 11)
TO CHARLESTOWN NH

I-91 ON RAMP

50' WETLAND BUFFER

VAOT POLLINATOR WET

VAOT NATURALIZED
TYPE II

VAOT NATURALIZED
TYPE II

VAOT NATURALIZED
TYPE II

VT STATE PLANE GRID

LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 22	SHEET 915 OF 922

HNTB



NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

LEGEND

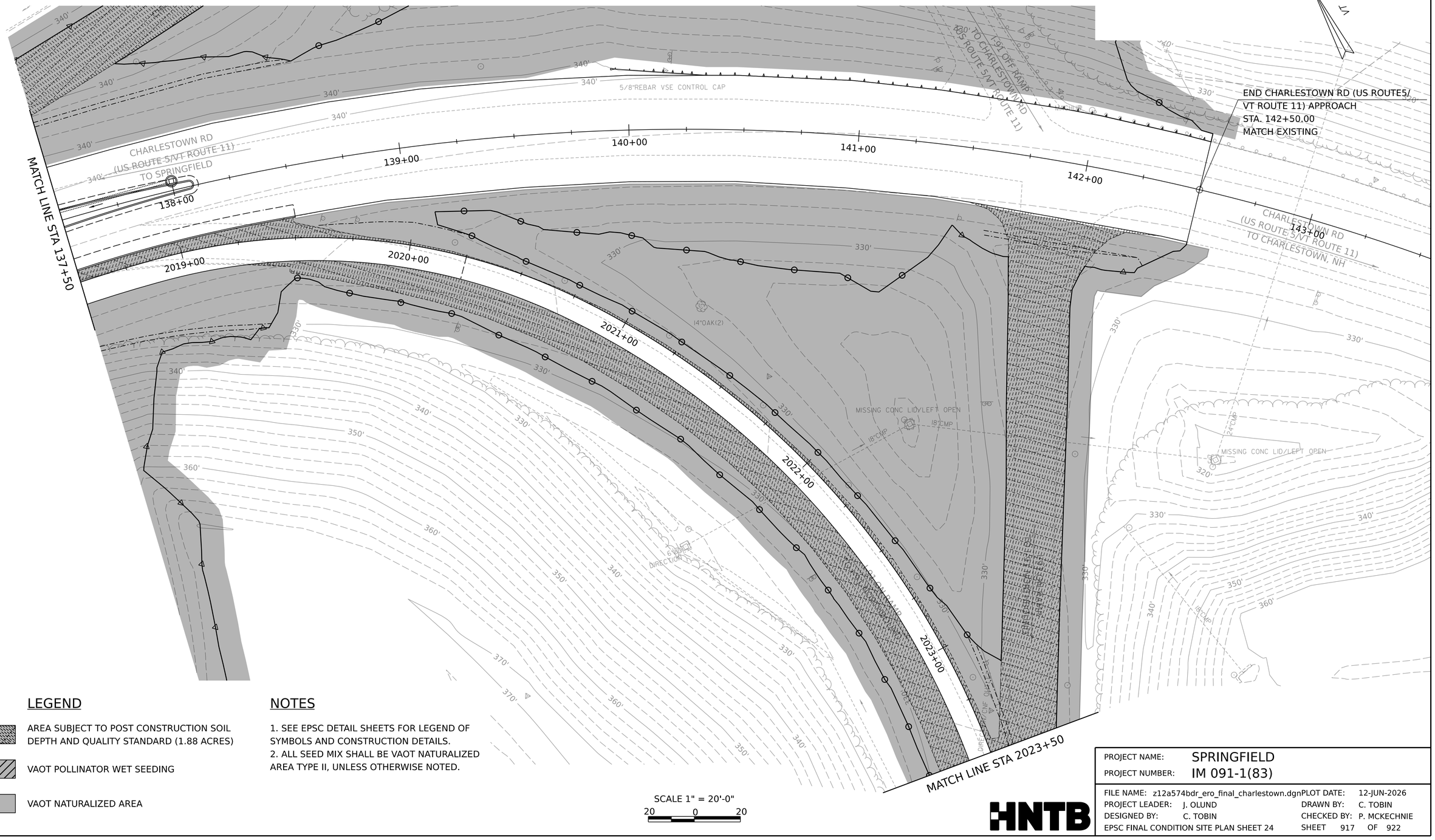
- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

BRIDGE 28 N&S SUPERSTRUCTURES NOT SHOWN FOR CLARITY

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)

FILE NAME:	z12a574bdr_ero_final_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 23		SHEET	916 OF 922

HNTB



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

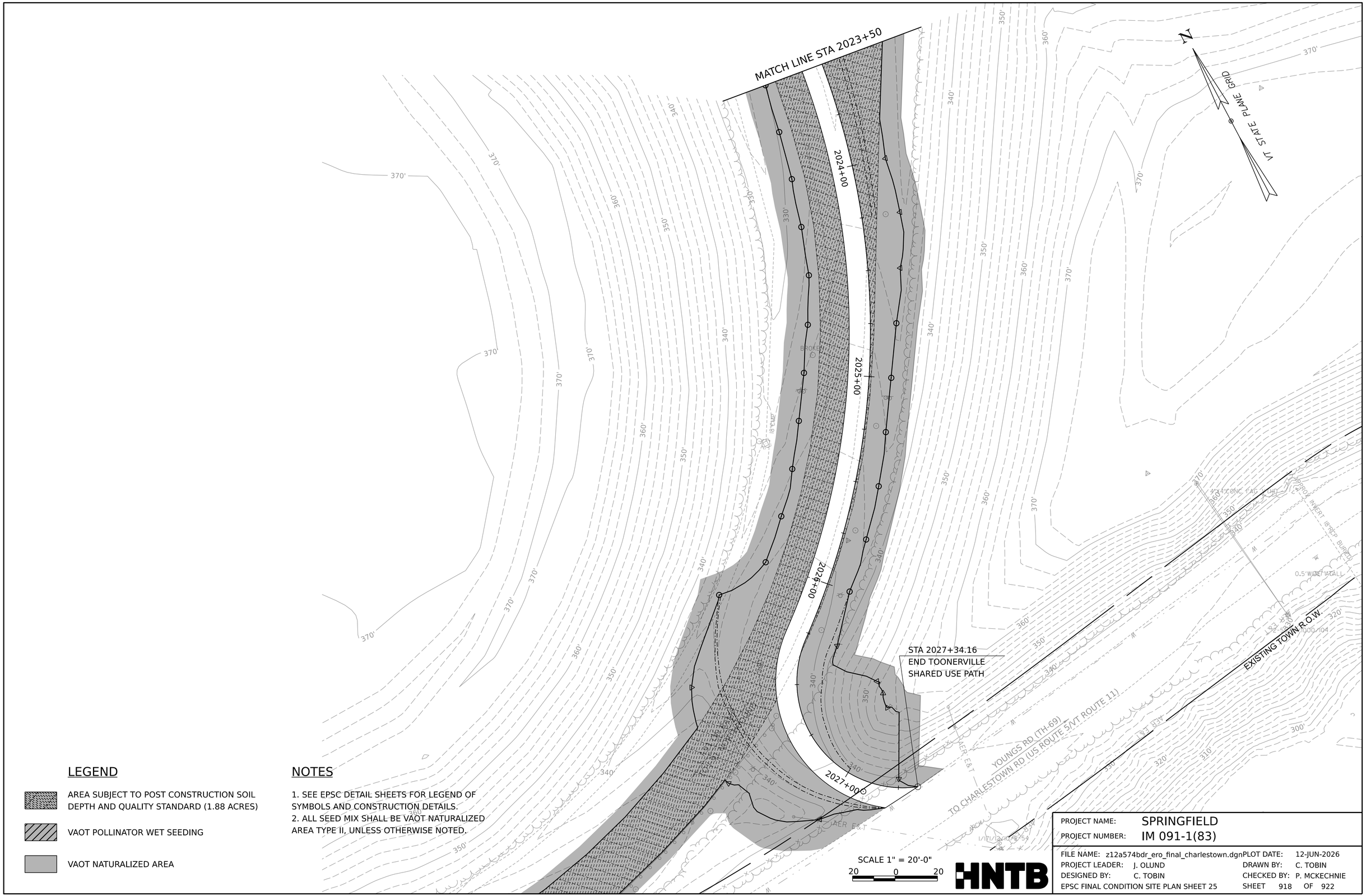
1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

SCALE 1" = 20'-0"

20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD		
PROJECT NUMBER:	IM 091-1(83)		
FILE NAME:	z12a574bdr_ero_final_charlestown.dgn	PLOT DATE:	12-JUN-2026
PROJECT LEADER:	J. OLUND	DRAWN BY:	C. TOBIN
DESIGNED BY:	C. TOBIN	CHECKED BY:	P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 24		SHEET	917 OF 922



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 25	SHEET 918 OF 922



LEGEND

- AREA SUBJECT TO POST CONSTRUCTION SOIL DEPTH AND QUALITY STANDARD (1.88 ACRES)
- VAOT POLLINATOR WET SEEDING
- VAOT NATURALIZED AREA

NOTES

1. SEE EPSC DETAIL SHEETS FOR LEGEND OF SYMBOLS AND CONSTRUCTION DETAILS.
2. ALL SEED MIX SHALL BE VAOT NATURALIZED AREA TYPE II, UNLESS OTHERWISE NOTED.

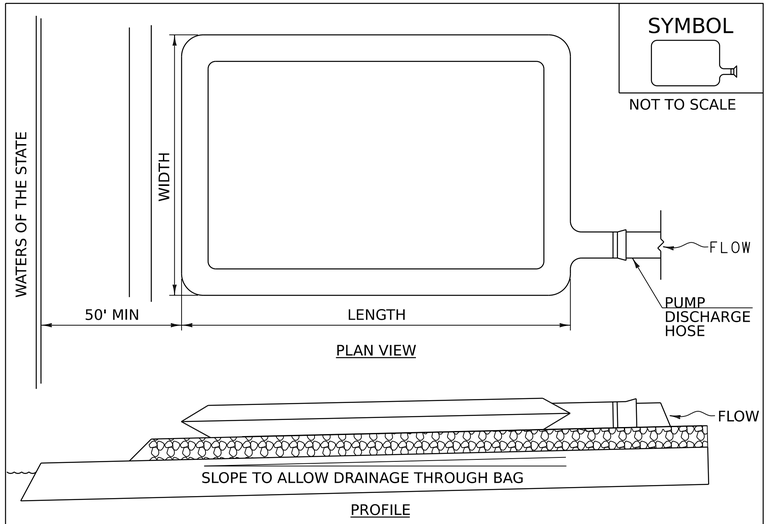
SCALE 1" = 20'-0"
20 0 20

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574bdr_ero_final_charlestown.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC FINAL CONDITION SITE PLAN SHEET 26	SHEET 919 OF 922

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAY BALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

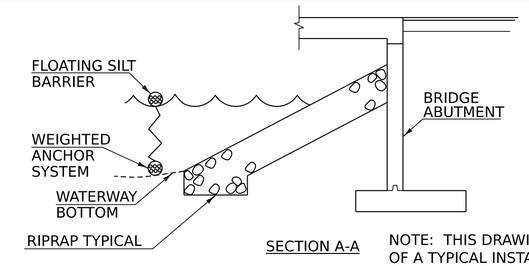
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2020- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.4500).

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF
July 26, 2024	CMMJ

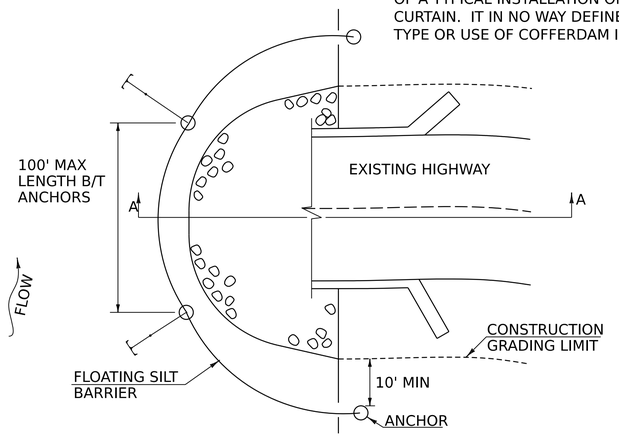
SYMBOL

NOT TO SCALE



SECTION A-A

NOTE: THIS DRAWING IS A DEPICTION OF A TYPICAL INSTALLATION OF FILTER CURTAIN. IT IN NO WAY DEFINES THE TYPE OR USE OF COFFERDAM IF USED.



CONSTRUCTION SPECIFICATIONS

1. FILTER CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY, OR IN A WATERWAY WITH STREAM VELOCITIES GREATER THAN 1.5 FEET/SECOND.
2. MAXIMUM 100' LENGTH BETWEEN ANCHORS.
3. LAST SECTION SHALL TERMINATE A MINIMUM OF 10' BEYOND LIMIT OF DISTURBANCE.
4. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE WHICH ALLOWS THE CURTAIN TO CONFORM TO THE BOTTOM OF THE WATERWAY.
5. THE CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE MINIMIZING THE ESCAPE OF SEDIMENTS INTO WATERWAY.

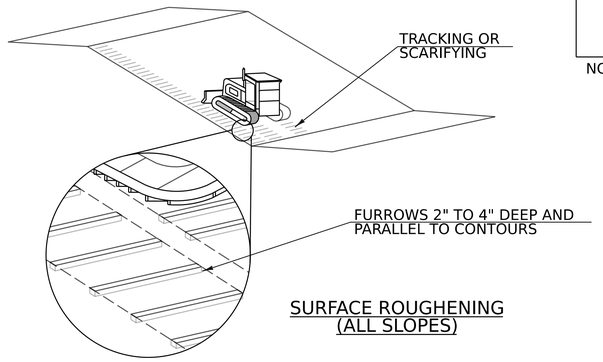
FILTER CURTAIN

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 614 FOR IN-WATER SEDIMENT ISOLATION MEASURES (PAY ITEM 614.2000).

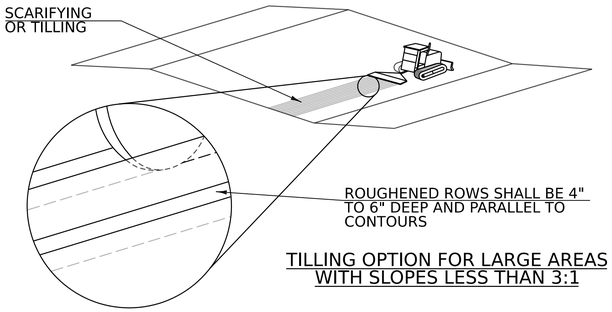
REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
SEPTEMBER 4, 2009	WHF
July 26, 2024	CMMJ

SYMBOL

NOT TO SCALE



SURFACE ROUGHENING (ALL SLOPES)



TILLING OPTION FOR LARGE AREAS WITH SLOPES LESS THAN 3:1

NOTES:

1. GROOVES MAY BE MADE WITH ANY APPROPRIATE PIECE OF EQUIPMENT THAT CAN BE SAFELY OPERATED ON, OR ADJACENT TO, THE SLOPE. SURFACE ROUGHENING SHALL BE ACCOMPLISHED IN A MANNER THAT LIMITS SOIL COMPACTION AND PROMOTES TURF ESTABLISHMENT.
2. FOR AREAS THAT WILL BE MOWED, SURFACE ROUGHENING SHOULD CONSIST OF GROOVES CREATED BY NORMAL TILLING, DISKING, HARROWING, OR USE OF A CULTIPACKER SEEDER. SURFACE ROUGHENING SHALL NOT CREATE A SURFACE THAT CAN NOT BE MOWED.

ADAPTED FROM DETAILS DEVELOPED BY:
VERMONT DEPARTMENT OF CONSERVATION

MILE HIGH FLOOD DISTRICT STORMWATER
BEST MANAGEMENT PRACTICES

SURFACE ROUGHENING

NOTES:
REFER TO LATEST EDITION OF "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ALL OTHER CONTRACT ITEMS.

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
NOVEMBER 25, 2024	CMMJ

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ero_det.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
EPSC DETAILS 1

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 920 OF 922

VAOT NATURALIZED AREA TYPE I				
WEIGHT	NAME	LATIN NAME	GERM	PURITY
38%	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	INERTS			
100%				

VAOT NATURALIZED AREA TYPE II				
WEIGHT	NAME	LATIN NAME	GERM	PURITY
37.5%	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%				

SEED RATE: BROADCAST: 75 LBS/ACRE
HYDROSEED: PER MANUFACTURER'S RECOMMENDATIONS

APPLY AMENDMENTS PER SOIL TEST RESULTS

FERTILIZER (755.06):
IF NO SOIL TEST IS PERFORMED, A SLOW OR CONTROLLED RELEASE FERTILIZER SHALL BE APPLIED AT A RATIO OF 1:1:1 (N:P:K). NITROGEN AND PHOSPHORUS SHALL BE APPLIED AT NO MORE THAN 1 LB. PER 1,000 SQ.FT.

LIMESTONE (755.08 & 755.09):
IF NO SOIL TEST IS PERFORMED, APPLY LIMESTONE PER MANUFACTURER'S RECOMMENDATIONS.

COMPOST (755.05):
COMPOST MAY BE APPLIED PER SOIL TEST RESULTS.

CONSTRUCTION GUIDANCE

1. THESE SEED MIXES SHALL BE USED IN AREAS THAT WILL NATURALIZE, RECEIVING LIMITED ANNUAL MOWING THROUGH THE GROWING SEASON.
2. USE SEED MIX AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON-WETLAND) AREAS DISTURBED BY THE CONTRACTOR.IF THE PLANS DO NOT SPECIFY A SEED TYPE, NATURALIZED AREA TYPE I OR TYPE II SHALL BE USED.
3. SEED MIXES SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. HAY MULCH TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE. ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
5. FERTILIZER SHOULD NOT BE APPLIED WITHIN 2 WEEKS OF APPLYING LIMESTONE.
6. FOR BEST ESTABLISHMENT, REAPPLY FERTILIZER 2-3 WEEKS AFTER GERMINATION.

TURF ESTABLISHMENT

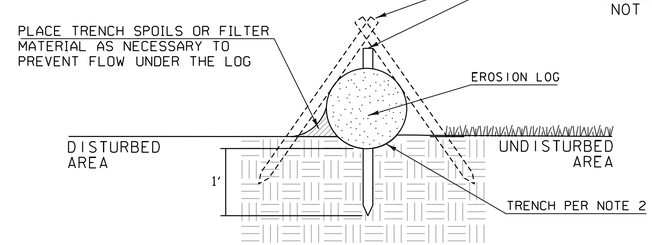
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1500 TURF ESTABLISHMENT, GENERAL SEED)

REVISIONS	
JANUARY 12, 2015	WHF
JUNE 15, 2023	BKD

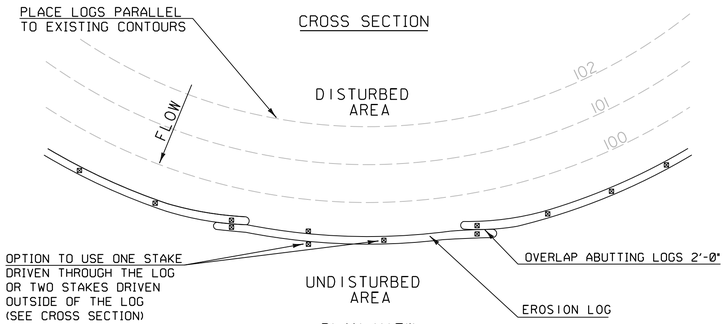
A SINGLE STAKE MAY BE DRIVEN THROUGH THE LOG OR ONE STAKE MAY BE DRIVEN ON EACH SIDE OF THE LOG. SEE NOTE 1 FOR STAKE SPACING.

SYMBOL: EL

NOT TO SCALE



CROSS SECTION



PLAN VIEW

NOTES:

1. STAKE PLACEMENT WILL VARY BASED ON LOG TYPE, MANUFACTURER'S RECOMMENDATIONS, AND FIELD CONDITIONS. LOGS SHALL BE STAKED SO AS TO PROVIDE CONTINUOUS CONTACT BETWEEN THE LOG AND THE GROUND. STAKE SPACING SHALL NOT EXCEED 10" ON CENTER.
2. REMOVE GROUND LITTER AND TRENCH 2" TO 3" AS NECESSARY TO ACHIEVE GOOD GROUND CONTACT. PLACE AND COMPACT EXCAVATED MATERIAL ON THE UPSLOPE SIDE OF THE LOG OR WASTE AT APPROVED LOCATION.
3. WHEN ACCUMULATED SEDIMENT IS NOTED IT SHALL BE REMOVED AND WASTED IN AN APPROVED LOCATION
4. RESHAPE OR REPLACE LOG ONCE CAKED OR FLATTENED.

ADAPTED FROM DETAILS PROVIDED BY:

VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

EROSION LOG (EL)

NOTES:
REFER TO LATEST EDITION OF "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR EROSION LOG (PAY ITEM 653.6000).

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
NOVEMBER 27, 2024	CMMJ

HNTB

PROJECT NAME: SPRINGFIELD
PROJECT NUMBER: IM 091-1(83)

FILE NAME: z12a574ero_det.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: C. TOBIN
EPSC DETAILS 2

PLOT DATE: 12-JUN-2026
DRAWN BY: C. TOBIN
CHECKED BY: P. MCKECHNIE
SHEET 921 OF 922

VAOT POLLINATOR SEED CONSTRUCTION GUIDANCE

1. PREPARE SOIL FOR POLLINATOR SEED MIX APPLICATION SITES IN ACCORDANCE WITH VTRANS SUBSECTION 651.04 & 651.05 FOR TURF ESTABLISHMENT.

2. APPLY SOIL AMENDMENTS PER SOIL TEST RESULTS.

3. MIX POLLINATOR SEED, NURSE CROP SEEDS, AND BULKING AGENT PRIOR TO APPLICATION. ENSURE THAT THE MATERIALS ARE EVENLY DISTRIBUTED THROUGHOUT THE MIX.

   A. NURSE CROP: USE GRAIN OATS (*AVENA SATIVA*) AS A NURSE CROP IF PLANTING BETWEEN JANUARY 1 AND JULY 31 OR USE WINTER RYE (*SECALE CEREALE*) IF PLANTING BETWEEN AUGUST 1 AND DECEMBER 31.

   B. BULKING AGENT: ADD AN INERT CARRIER AND BULKING AGENT SUCH AS GRANULAR SODIUM BENTONITE CLAY, NON-CLUMPING & NON-SCENTED KITTY LITTER, OR APPROVED EQUIVALENT TO ALLOW FOR EVEN SEED DISTRIBUTION AND AS A VISUAL AID OF COVERAGE DURING THE SEED INSTALLATION. BULKING AGENTS SHALL BE MIXED WITH THE SEED MIX AND NURSE CROP AT THE RATES SPECIFIED ON THE POLLINATOR SEED MIX DETAILS. PAYMENT FOR BULKING AGENT AND NURSE CROP SHALL BE INCIDENTAL TO THE CORRESPONDING SEED PAY ITEMS.

4. APPLY POLLINATOR SEED MIXES, NURSE CROP SEEDS, AND BULKING AGENT CONCURRENTLY IN ACCORDANCE WITH THE RATES SHOWN ON THE POLLINATOR SEED MIX TABLES. DO NOT EXCEED THE RECOMMENDED NURSE CROP SEEDING RATES TO AVOID SMOTHERING THE POLLINATOR SEED MIX AND PREVENTING GERMINATION.

5. SPREAD SEED BY HAND OR USE BROADCAST SEEDING EQUIPMENT WITH AN INTERNAL AGITATOR AND AN ADJUSTABLE FLOW GATE TO CREATE A SLOW, STEADY SEED FLOW, ALLOWING FOR EVEN DISTRIBUTION OF THE SMALLER SEEDS.

6. USE A LANDSCAPE-TYPE ROLLER, CULTIPACKER, OR LEAF RAKE TO LIGHTLY PRESS SEED INTO SOIL BED AFTER BROADCAST SPREADING. THIS PROMOTES ADEQUATE SEED TO SOIL CONTACT. DO NOT TILL OR COVER SEED WITH SOIL.

7. MULCH WITH A LIGHT COVER OF WEED-FREE OAT STRAW AT A RATE OF 3,000 LB./ACRE.

8. IF HYDROSEEDING, A TWO-STEP PROCESS SHALL BE USED. FIRST PASS: APPLY SEED WITH 1/3 THE NORMAL RATE OF HYDRAULIC MULCH. SECOND PASS: APPLY REMAINDER OF HYDRAULIC MULCH. RATE OF HYDROSEED SHALL BE PER MANUFACTURERS RECOMMENDATIONS. NO BULKING AGENT SHALL BE USED.

TURF ESTABLISHMENT	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1600 TURF ESTABLISHMENT, SPECIALTY SEED)	REVISIONS JUNE 21, 2023 BKD

VAOT POLLINATOR WET

% OF MIX	LATIN NAME	COMMON NAME	CULTIVAR/ECOTYPE
2	AGROSTIS PERENNANS	AUTUMN BENTGRASS	NORTHEAST ECOTYPE
2	ASCLEPIAS INCARNATA	SWAMP MILKWEED	NORTHEAST ECOTYPE
0.6	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	NORTHEAST ECOTYPE
0.2	ASTER PUNICEUS	PURPLE STEMMED ASTER	NORTHEAST ECOTYPE
0.2	ASTER UMBELLATUS	WHITE FLAT-TOPPED ASTER	NORTHEAST ECOTYPE
1	BIDENS CERNUA	NODDING BUR MARIGOLD	NORTHEAST ECOTYPE
30	CAREX VULPINOIDEA	FOX SEDGE	NORTHEAST ECOTYPE
0.3	CHELONE GLABRA	TURTLEHEAD	NORTHEAST ECOTYPE
20	ELYMUS VIRGINICUS	VIRGINIA WILDRYE	NORTHEAST ECOTYPE
1	EUPATORIUM PERFOLIATUM	BONESET	NORTHEAST ECOTYPE
3.9	JUNCUS EFFUSUS	SOFT RUSH	NORTHEAST ECOTYPE
3.8	JUNCUS TENUIS	PATH RUSH	NORTHEAST ECOTYPE
30	PANICUM CLANDESTINUM	DEERTONGUE	NORTHEAST ECOTYPE
4	VERBENA HASTATA	BLUE VERVAIN	NORTHEAST ECOTYPE
1	ZIZIA AUREA	GOLDEN ALEXANDERS	NORTHEAST ECOTYPE
100%			

SEED RATE: 15 LBS/ACRE PURE LIVE SEED (PLS)
30 LBS/ACRE OF NURSE CROP.
60 LBS/ACRE OF BULKING AGENT

*PREFERRED SEEDING PERIOD FOR POLLINATOR SEED MIX IS BEFORE MAY 1 (AFTER SNOWMELT) AND AFTER SEPTEMBER 15 (BEFORE SNOWPACK). IF SEEDING OCCURS DURING THE PREFERRED PERIOD, SEEDING RATE SHALL BE REDUCED BY 30%. NO ADJUSTMENT IS REQUIRED FOR NURSE CROPS OR BULKING AGENTS).

DESIGN GUIDANCE

1. THIS SEED MIX SHALL BE USED IN AREAS THAT WILL NATURALIZE, RECEIVING MOWING ONCE EVERY 3 YEARS OR LESS.

2. USE SEED MIX FOR AREAS THAT EXPERIENCE OCCASIONAL INNUNDATION OF WATER (EX. DETENTION BASINS OR SWALES), OR AS INDICATED IN THE PLANS.

CONSTRUCTION GUIDANCE

1. SEE VAOT POLLINATOR SEED CONSTRUCTION GUIDANCE DETAIL FOR MORE INFORMATION ON INSTALLATION AND BULKING AGENT.

TURF ESTABLISHMENT	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1600 TURF ESTABLISHMENT, SPECIALTY SEED)	REVISIONS JANUARY 29, 2025 BKD

VAOT POLLINATOR DRY

% OF MIX	LATIN NAME	COMMON NAME	CULTIVAR/ECOTYPE
6	AGROSTIS PERENNANS	AUTUMN BENTGRASS,	NORTHEAST ECOTYPE
25.2	ANDROPOGON GERARDII	BIG BLUESTEM	NORTHEAST ECOTYPE
0.5	ASCLEPIAS SYRIACA	COMMON MILKWEED	NORTHEAST ECOTYPE
0.8	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	NORTHEAST ECOTYPE
25	ELYMUS VIRGINICUS	VIRGINIA WILDRYE	NORTHEAST ECOTYPE
0.6	MONARDA FISTULOSA	WILD BERGAMOT	NORTHEAST ECOTYPE
20	PANICUM CLANDESTINUM	DEERTONGUE	NORTHEAST ECOTYPE
1.5	RUDBECKIA HIRTA	BLACK EYED SUSAN	NORTHEAST ECOTYPE
20	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	NORTHEAST ECOTYPE
0.2	SOLIDAGO JUNCEA	EARLY GOLDENROD	NORTHEAST ECOTYPE
0.2	SOLIDAGO RUGOSA	WRINKLE LEAF GOLDENROD	NORTHEAST ECOTYPE
100%			

SEED RATE: 60 LBS/ACRE PURE LIVE SEED (PLS)
30 LBS/ACRE OF NURSE CROP
30 LBS/ACRE OF BULKING AGENT

*PREFERRED SEEDING PERIOD FOR POLLINATOR SEED MIX IS BEFORE MAY 1 (AFTER SNOWMELT) AND AFTER SEPTEMBER 15 (BEFORE SNOWPACK). IF SEEDING OCCURS DURING THE PREFERRED PERIOD, SEEDING RATE SHALL BE REDUCED BY 30%. NO ADJUSTMENT IS REQUIRED FOR NURSE CROPS OR BULKING AGENTS).

DESIGN GUIDANCE

1. THIS SEED MIX SHALL BE USED IN AREAS THAT WILL NATURALIZE, RECEIVING MOWING ONCE EVERY 3 YEARS OR LESS.

2. USE SEED MIX FOR AREAS THAT ARE SLOPED OR FLAT, WITH NORMAL TO DRY CONDITIONS, OR AS INDICATED IN THE PLANS.

CONSTRUCTION GUIDANCE

1. SEE VAOT POLLINATOR SEED CONSTRUCTION GUIDANCE DETAIL FOR MORE INFORMATION ON INSTALLATION AND BULKING AGENT.

TURF ESTABLISHMENT	
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.1600 TURF ESTABLISHMENT, SPECIALTY SEED)	REVISIONS JANUARY 29, 2025 BKD

HNTB

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	IM 091-1(83)
FILE NAME: z12a574ero_det.dgn	PLOT DATE: 12-JUN-2026
PROJECT LEADER: J. OLUND	DRAWN BY: C. TOBIN
DESIGNED BY: C. TOBIN	CHECKED BY: P. MCKECHNIE
EPSC DETAILS 3	SHEET 922 OF 922