

REQUEST FOR PROJECT REVIEW

PROJECT INFORMATION	
Proj. Name and Number:	Fairfield STP Deck (51)
EA No.:	DECK051-100
PPMS:	19b218
Project Manager:	Rob Young
Program:	Structure
Phase:	Preliminary
District:	District 8
If Multiple Districts Specify	
Traffic Signal:	No
Precast Elements:	Yes

DOCUMENTS FOR REVIEW AND FILES LOCATION	
PLANS	FILE LOCATION : "\\aotcadd\caddwrk\$\Projects\19B218\Structures\Plots\1 - Submittals\2 - Preliminary Plans\OLSR Review\VT36PSET_2022-06-24.pdf"
ESTIMATE	FILE LOCATION : "\\aotcadd\caddwrk\$\Projects\19B218\Structures\Plots\1 - Submittals\2 - Preliminary Plans\OLSR Review\s19b218Est_prelim 6-24-22.pdf"
TMP	FILE LOCATION : "\\aotcadd\caddwrk\$\Projects\19B218\Structures\Engineering\Transportation Management\Work Zone Safety and Mobility - TMP Checklist.pdf"
Other	FILE LOCATION : "\\aotcadd\caddwrk\$\Projects\19B218\Structures\Engineering\Risk Registry\Risk Register.pdf"
	FILE LOCATION :

TIME LINES	
SUBMITTED:	06-24-2022
DEADLINE:	07-19-2022
COMPLETED:	

INVITEES FOR REVIEW

<input checked="" type="checkbox"/> MOB Districts	<input checked="" type="checkbox"/> PDB Right-of-Way	<input checked="" type="checkbox"/> PDB Environmental Section	<input type="checkbox"/> CMB Geotechnical Engineering Section	<input type="checkbox"/> FHWA	<input type="checkbox"/> PPAID Permitting Services
				Include on all PoDI and WCRS Projects	
	<input checked="" type="checkbox"/> PDB Structural Section	<input type="checkbox"/> PDB Hydraulics Section	<input checked="" type="checkbox"/> AMP Budget and Programming		<input checked="" type="checkbox"/> Regional Planners
Operations and Safety Bureau			Include on all reviews that include bridges within the Project Limits	<input type="checkbox"/> Rail Bureau	
Included in all projects	<input checked="" type="checkbox"/> PDB Survey Section	<input checked="" type="checkbox"/> CMB Construction Section	<input checked="" type="checkbox"/> AMP NBIS Inspections and Budget	<input type="checkbox"/> VRS	<input type="checkbox"/> Aviation
			Include on all reviews that include bridges within the Project Limits	<input checked="" type="checkbox"/> Civil Rights	
<input checked="" type="checkbox"/> Support Services Bureau	<input checked="" type="checkbox"/> PDB Utility Section		<input type="checkbox"/> AMP Rumble Stripes		Others:
				<input checked="" type="checkbox"/> Policy and Planning Bureau	Rob Young Josh Paquette Rebecca Pellett David Peterson Carolyn Cota
<input checked="" type="checkbox"/> MAB Bicycle and Pedestrian Program Unit	<input checked="" type="checkbox"/> PDB Highway Safety & Design	<input checked="" type="checkbox"/> CMB Materials Testing and Certification Section	See Notes at the bottom of this sheet.		

Review Focus Notes:

REVIEWER NOTES:

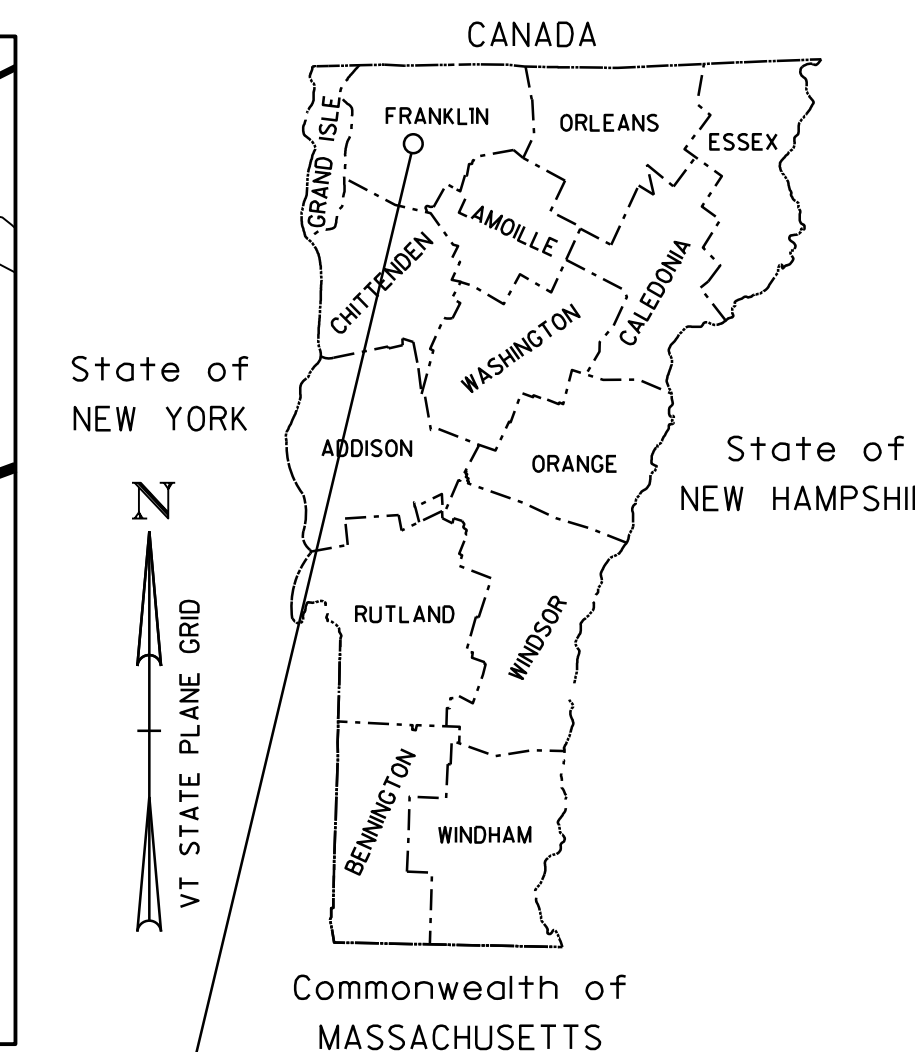
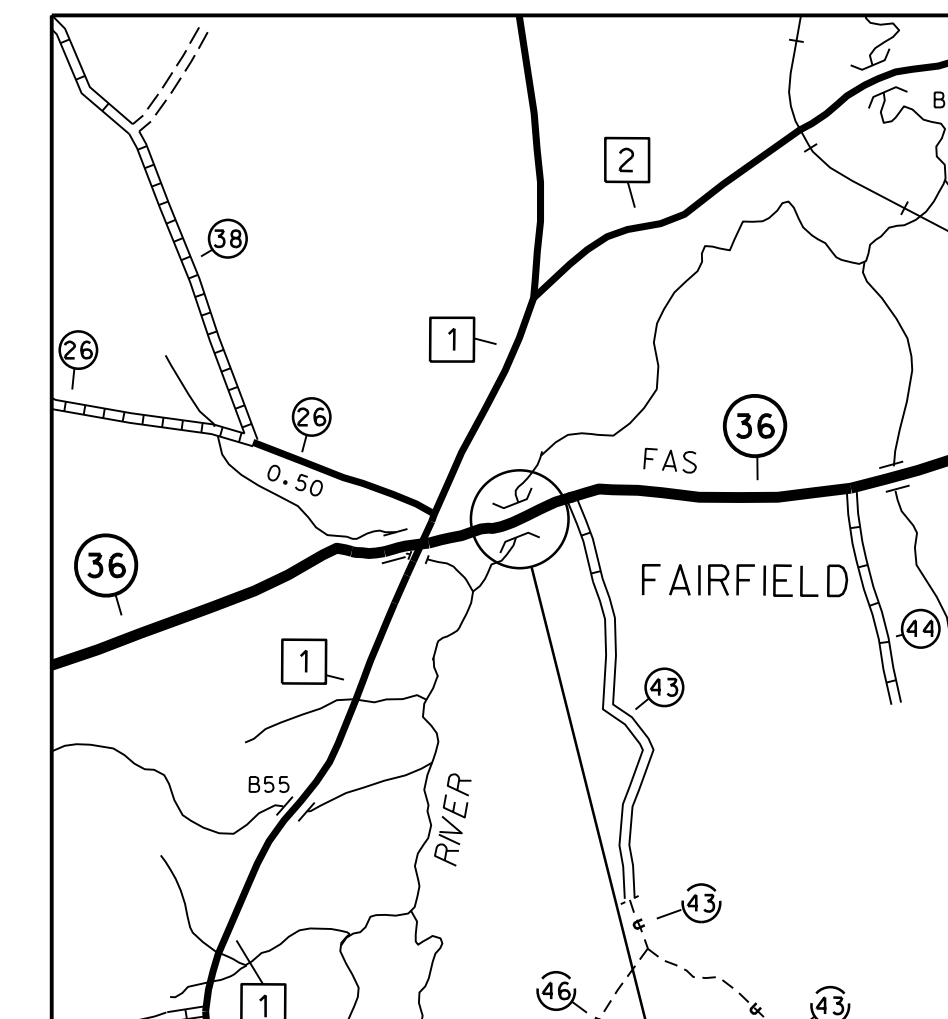
- 28 DAY CLOSURE FOR THIS PROJECT.
- EPSC = LOW RISK SITE.
- REVISIONS TO THE EXISTING DRAINAGE SYSTEM DUE TO POSSIBLE FROST HEAVING OF DI 2. THIS DI WAS NOTED IN THE FIELD TO BE 5"-6" ABOVE EXISTING GRADE. THIS AREA RECEIVES SIGNIFICANT RUNOFF FROM A FIELD WITH POSSIBLE SUBSURFACE WATER ISSUES. THE EXISTING PIPES AND DI 2 WILL BE RESET OF THEIR ORIGINAL ELEVATIONS AND UNDERDRAIN WILL BE ADDED TO AID IN ALLEVIATING ANY SUBSURFACE WATER ISSUES.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF FAIRFIELD
COUNTY OF FRANKLIN



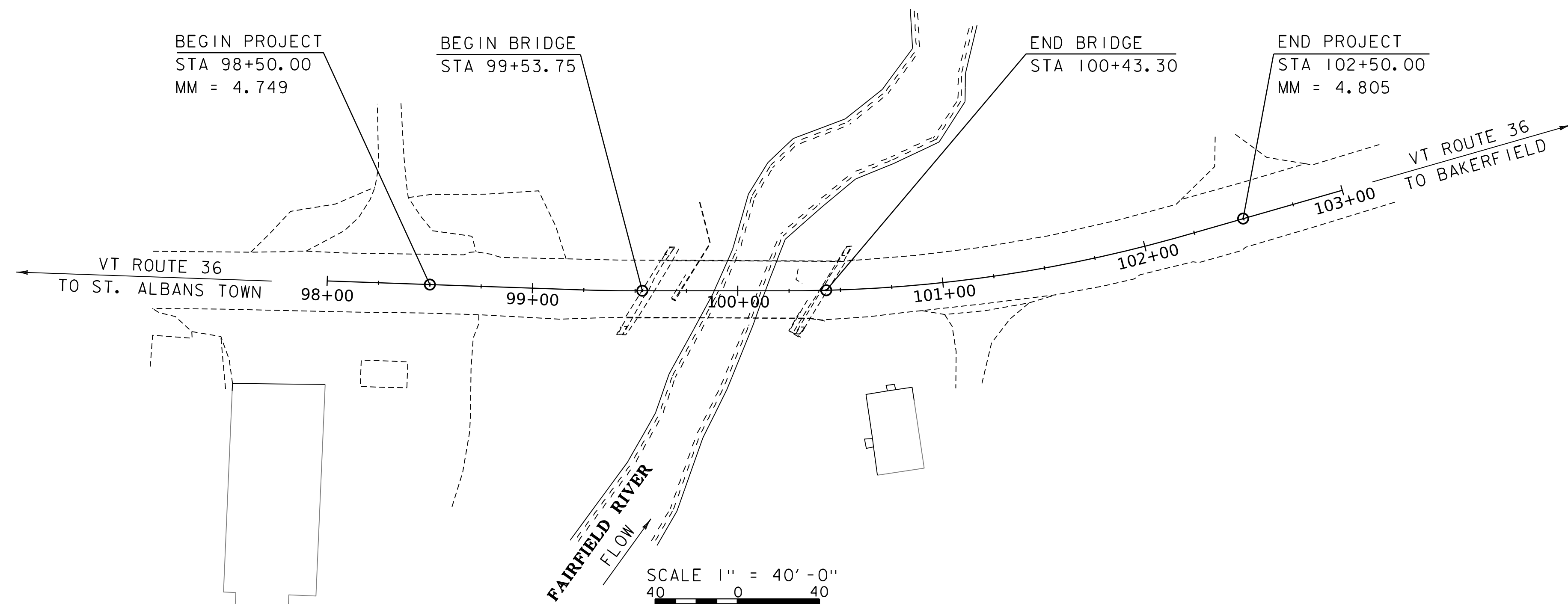
FAIRFIELD
STP DECK (51)

ROUTE NO : VERMONT ROUTE 36, MAJOR COLLECTOR BRIDGE NO : 6

PROJECT LOCATION : IN THE TOWN OF FAIRFIELD ON VT ROUTE 36 OVER FAIRFIELD RIVER
APPROXIMATELY 7.7 MILES WEST OF JUNCTION WITH VT ROUTE 108

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING CONCRETE BRIDGE DECK
WITH RELATED ROADWAY WORK

LENGTH OF STRUCTURE : 89.55 FEET.
LENGTH OF ROADWAY : 285.45 FEET.
LENGTH OF PROJECT : 375.00 FEET.



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 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 2	
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	03-20-2012
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (92)

PRELIMINARY PLANS 24-JUN-2022

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : ROB YOUNG, P.E.	
PROJECT NAME :	FAIRFIELD
PROJECT NUMBER :	STP DECK (51)
SHEET 1 OF 19 SHEETS	

PRELIMINARY INFORMATION SHEET (BRIDGE)

INDEX OF SHEETS

NO HYDRAULIC REPORT

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	TYPICAL SECTIONS
4	CONVENTIONAL SYMBOLOGY LEGEND
5	TIE SHEET
6	EXISTING EPSC SITE PLAN
7	DECK REPLACEMENT LAYOUT
8	RAIL LAYOUT
9	VT ROUTE 67 PROFILE
10	MATERIAL TRANSITION DIAGRAM
11	BANKING DIAGRAM
12	PIPE PROFILE
13	DRAINAGE DETAIL SHEET
14	DETOUR SHEET
15 - 19	ROADWAY CROSS SECTIONS 1-5

DETAIL SHEETS

HSD-400.01	SAFETY EDGE DETAILS	1/5/2018
HSD-621.07A	MIDWEST GUARDRAIL SYSTEM (MGS)	1/4/2021
HSD-621.07B	W-BEAN GUARDRAIL COMPONENTS	4/17/2019
HSD-621.07C	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR	4/17/2019
HSD-621.07D	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD-621.07E	MIDWEST GUARDRAIL SYSTEM (MGS) ANCHOR COMPONENTS	4/17/2019
HSD-621.07F	MIDWEST GUARDRAIL SYSTEM TRANSITION SECTION	1/4/2021

STANDARDS LIST

E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04-07-2020
E-11	CHECK DAM, TYPE I	04-07-2020
E-12	STABILIZED CONSTRUCTION ENTRANCE	04-07-2020
E-13	INLET PROTECTION DEVICE, TYPE I	04-07-2020
E-14	INLET PROTECTION DEVICE, TYPE III	04-07-2020
E-15	SILT FENCE	04-07-2020
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-191	PAVEMENT MARKING DETAILS	02-01-1999
E-192	PAVEMENT MARKING DETAILS	10-12-2000
E-193	PAVEMENT MARKING DETAILS	08-18-1995
F-1	WOVEN WIRE FENCE DETAILS	06-01-1994
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	03-10-2017
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	10-02-2018
S-352A	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	02-17-2022
S-352B	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	02-17-2022
S-352C	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION	02-17-2022
S-352D	GUARDRAIL APPROACH SECTION TO CONCRETE COMBINATION BRIDGE RAILING, TI	02-17-2022
S-400	BRIDGE JOINT ASPHALTIC PLUG	04-07-2020
S-500	CONCRETE DETAILS AND NOTES	04-07-2020
S-501	CONCRETE DETAILS AND NOTES	04-07-2020
S-600	STRUCTURAL DETAILS AND NOTES	04-07-2020
S-601	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	04-07-2020
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-07-2020
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	02-17-2022
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013
T-56	STANDARD SIGN PLACEMENT	10-26-2015

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY.

DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	d_p : 2.5 INCH
3. DESIGN SPAN	L: 86.68 FT
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'_{cr} : ---
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c : 4.0 KSI
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c : 3.5 KSI
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 : ---

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	2.76	1.29					
POSTING							
OPERATING	3.58	1.68	2.65	1.7	2.5	2.22	2.32
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2023	1800	2400	75	8.3	140
2043	2000	260	75	11.4	220

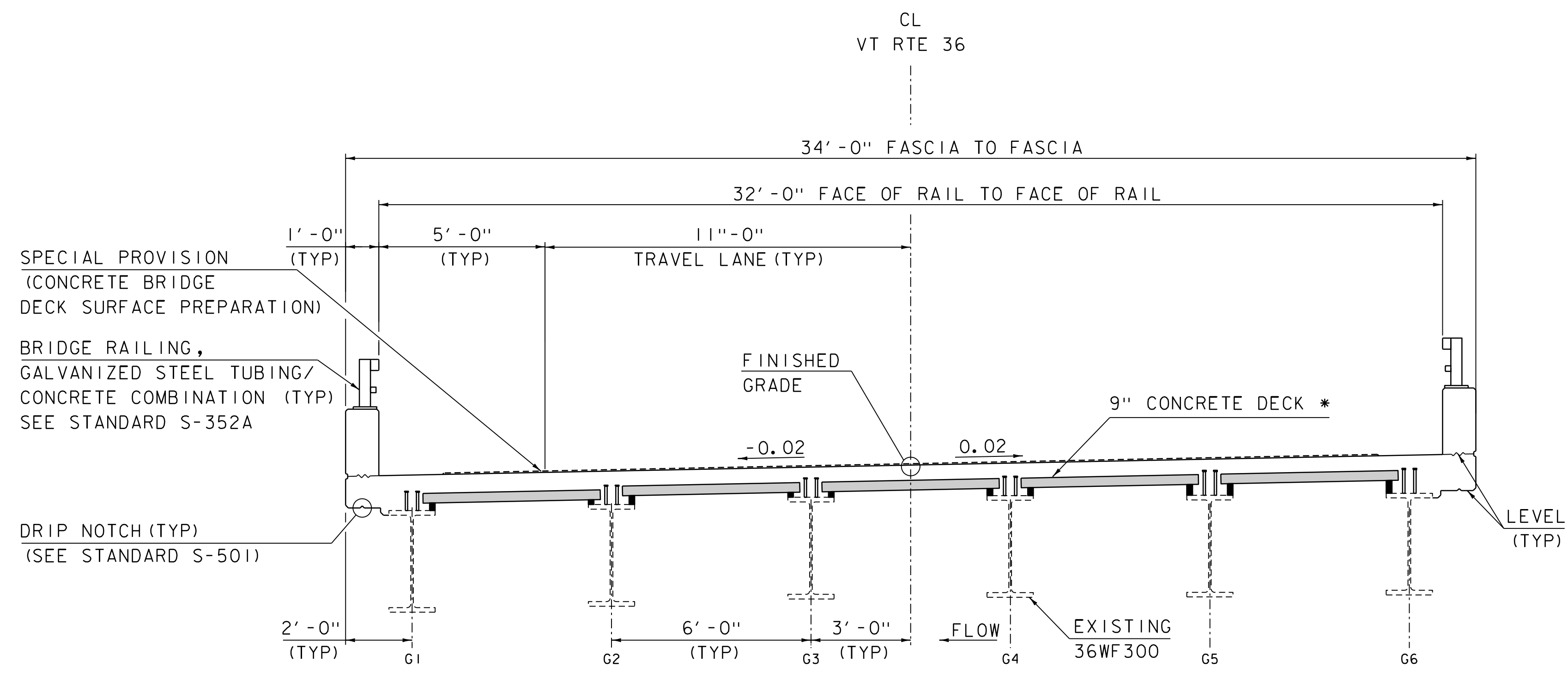
20 year ESAL for flexible pavement from 2023 to 2043 : 845000
40 year ESAL for flexible pavement from 2023 to 2063 : 1915000
Design Speed : 35 mph

AS BUILT "REBAR" DETAIL

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

PROJECT NAME: **FAIRFIELD**
PROJECT NUMBER: **STP DECK(51)**

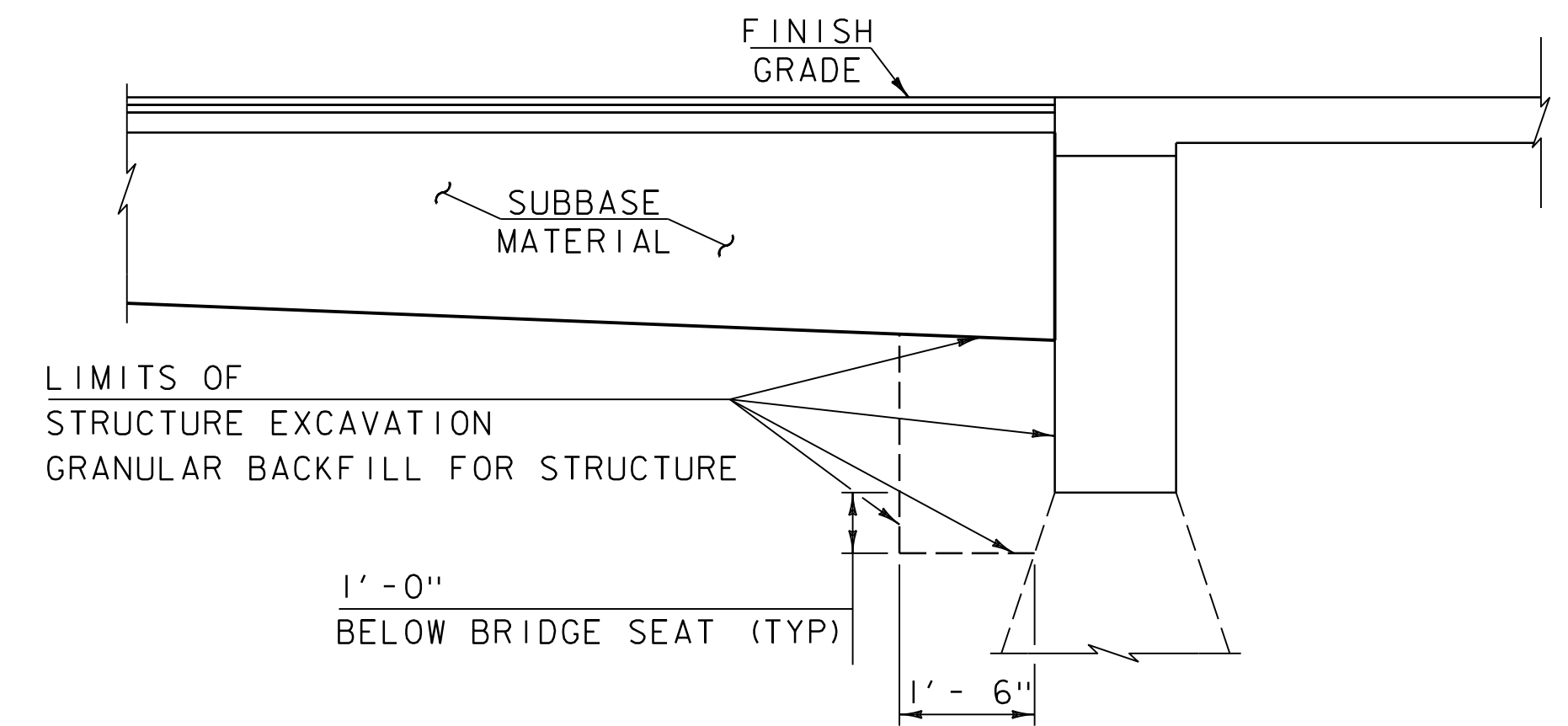
FILE NAME: **s19b218pi.dgn** PLOT DATE: 3/20/2022
PROJECT LEADER: **R. YOUNG** DRAWN BY: **R. PELLETT**
DESIGNED BY: **C. FRENCH** CHECKED BY: **D. PETERSON**
PRELIMINARY INFORMATION SHEET SHEET 2 OF 19



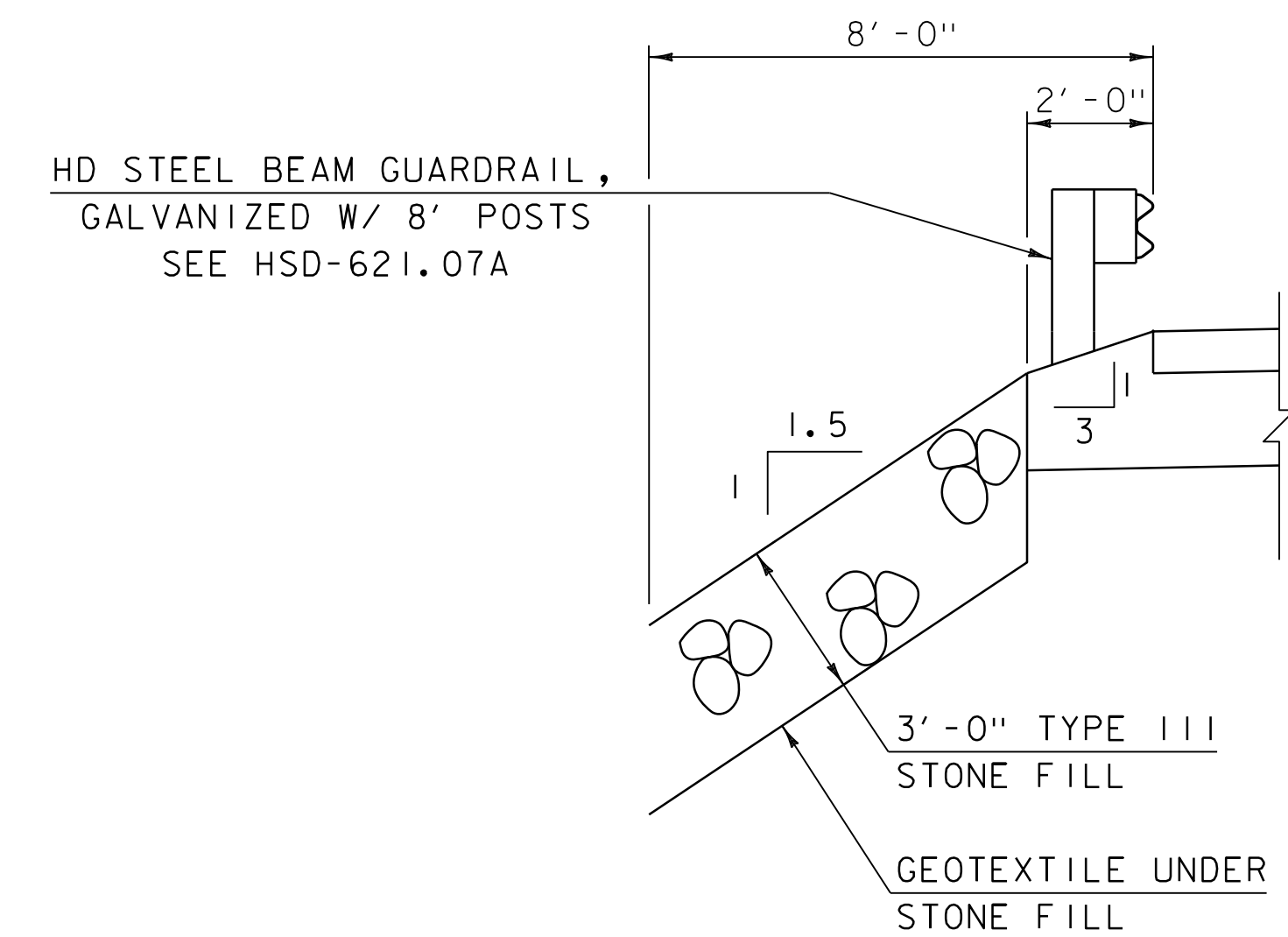
* 5 1/2" SPECIAL PROVISION (PERFORMANCE BASED CONCRETE, CLASS PCD)
 3 1/2" SPECIAL PROVISION (PRECAST PRESTRESSED CONCRETE DECK PANEL)

DECK REPLACEMENT TYPICAL SECTION
 SCALE 3/8" = 1'-0"

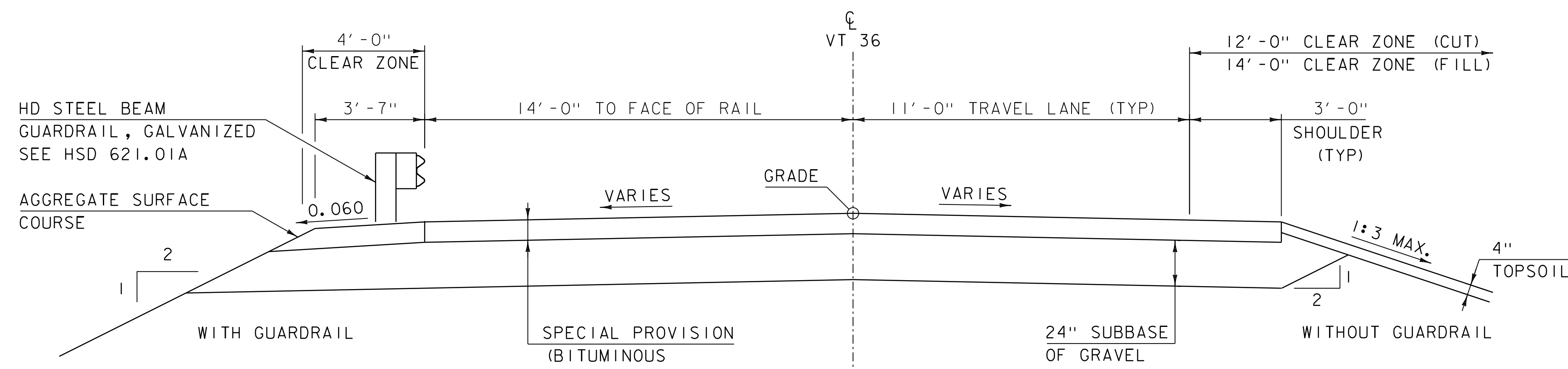
DESIGN LANE/DESIGN LIFE ESALS	633,750
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	50



ABUTMENT EARTHWORK TYPICAL



STONE FILL TYPICAL
 STA 100+72 - 100+92



*BITUMINOUS CONCRETE PAVEMENT
 1 1/2" BCP TYPE IVS
 1 1/2" BCP TYPE IVS
 3 1/2" BCP TYPE IIS

PROPOSED VT ROUTE 36 TYPICAL SECTION
 SCALE 3/8" = 1'-0"

MATERIAL TOLERANCES
 (IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

PROJECT NAME:	FAIRFIELD	PLOT DATE:	24-JUN-2022
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	J. PAQUETTE
FILE NAME:	sl9b2l8typ.dgn	DESIGNED BY:	J. PAQUETTE
PROJECT LEADER:	R. YOUNG	CHECKED BY:	D. PETERSON
TYPICAL SECTIONS			SHEET 3 OF 19

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY 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. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

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 SYMBOLGY

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 SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— — — — 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
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	TREE PROTECTION ZONE (TPZ)
//// //// //// //// ////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY 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 — P	PROPERTY LINE (P/L)
L — 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 SYMBOLGY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
— — — — —	SILT FENCE
— X — X — X — X —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
⊠	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**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 SYMBOLGY**

**EXISTING FEATURES**

— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
x — x — x — x —	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

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: s19b218legend.dgn PLOT DATE: 24-JUN-2022  
PROJECT LEADER: R. YOUNG DRAWN BY: R. PELLETT  
DESIGNED BY: R. PELLETT CHECKED BY: D. PETERSON  
CONVENTIONAL SYMBOLGY LEGEND SHEET 4 OF 19

PRIMARY CONTROL

HVCTRL #1  
 NORTH = 839564.8270  
 EAST = 1526986.1980  
 ELEV. = 491.2900

TO REACH FROM THE INTERSECTION OF ROUTES 104 AND 36 IN ST ALBANS, GO EAST ON ROUTE 36 FOR 6.7 MI (10.8 KM) TO THE INTERSECTION OF NORTH AND SOUTH ROADS. CONTINUE EAST ON ROUTE 36 FOR 0.4 MI (0.6 KM) TO THE INTERSECTION OF GILBERT HILL ROAD RIGHT. TURN RIGHT AND GO SOUTH ON GILBERT HILL ROAD FOR ABOUT 0.1 MI (0.2 KM) TO THE SITE OF THE MARK ON THE RIGHT.

THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET FLUSH WITH THE GROUND SURFACE.

IT IS 5.4 M (17.7 FT) WEST OF THE CENTERLINE OF GILBERT HILL ROAD, 18.1 M (59.4 FT) WEST-NORTHWEST OF AND ACROSS THE ROAD FROM POLE 15T/9/183 AND 5.9 M (19.4 FT) SOUTH OF A NO OUTLET SIGN.

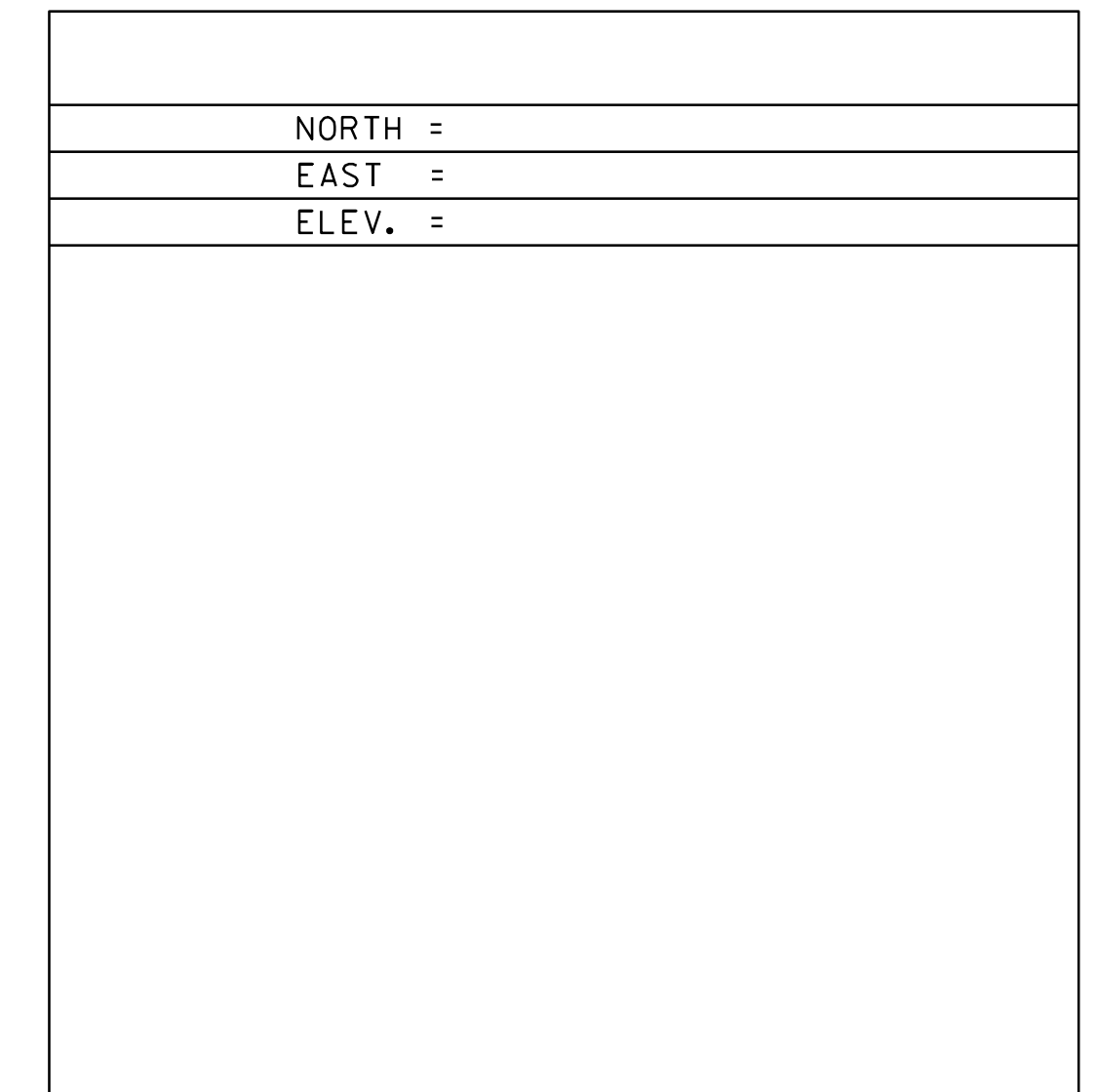
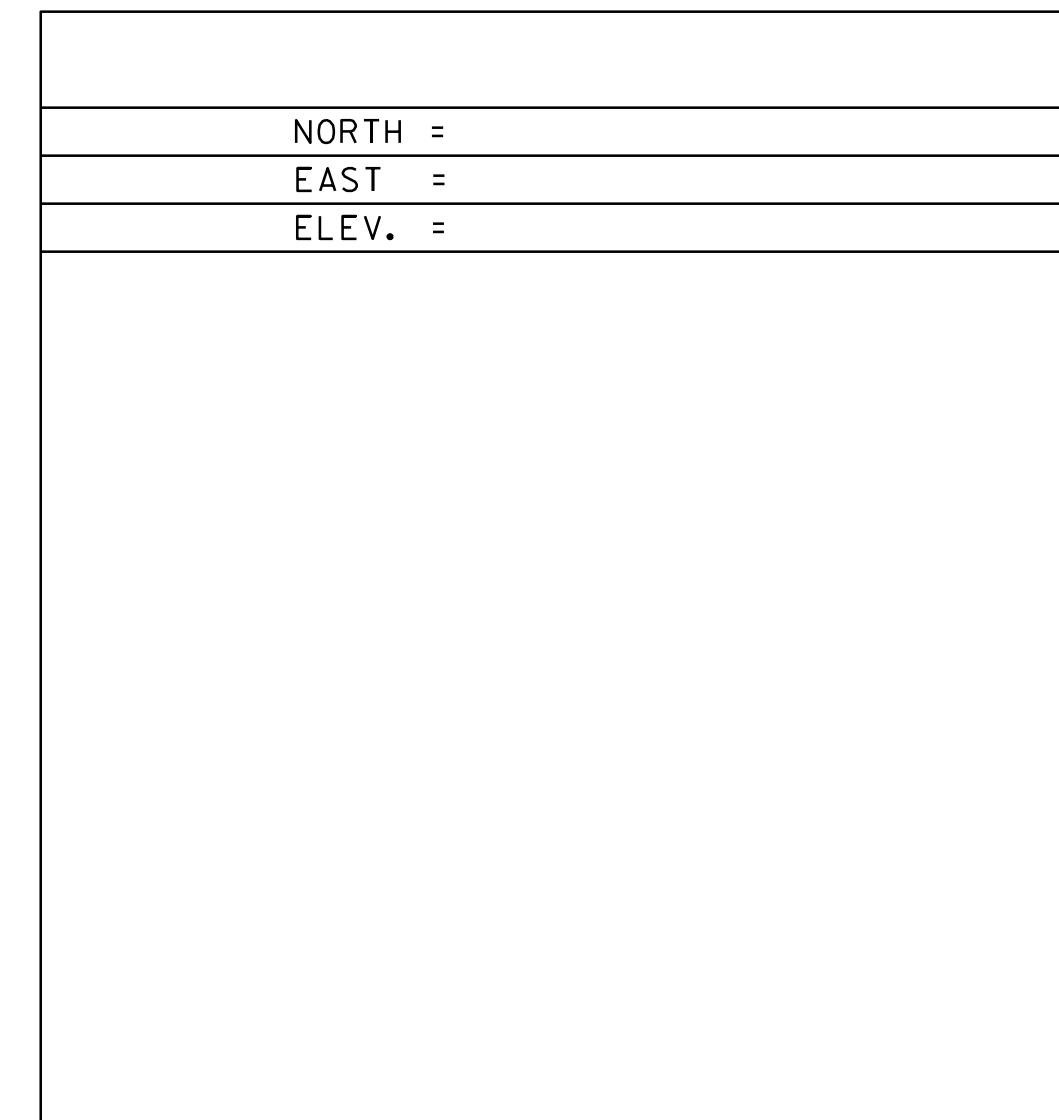
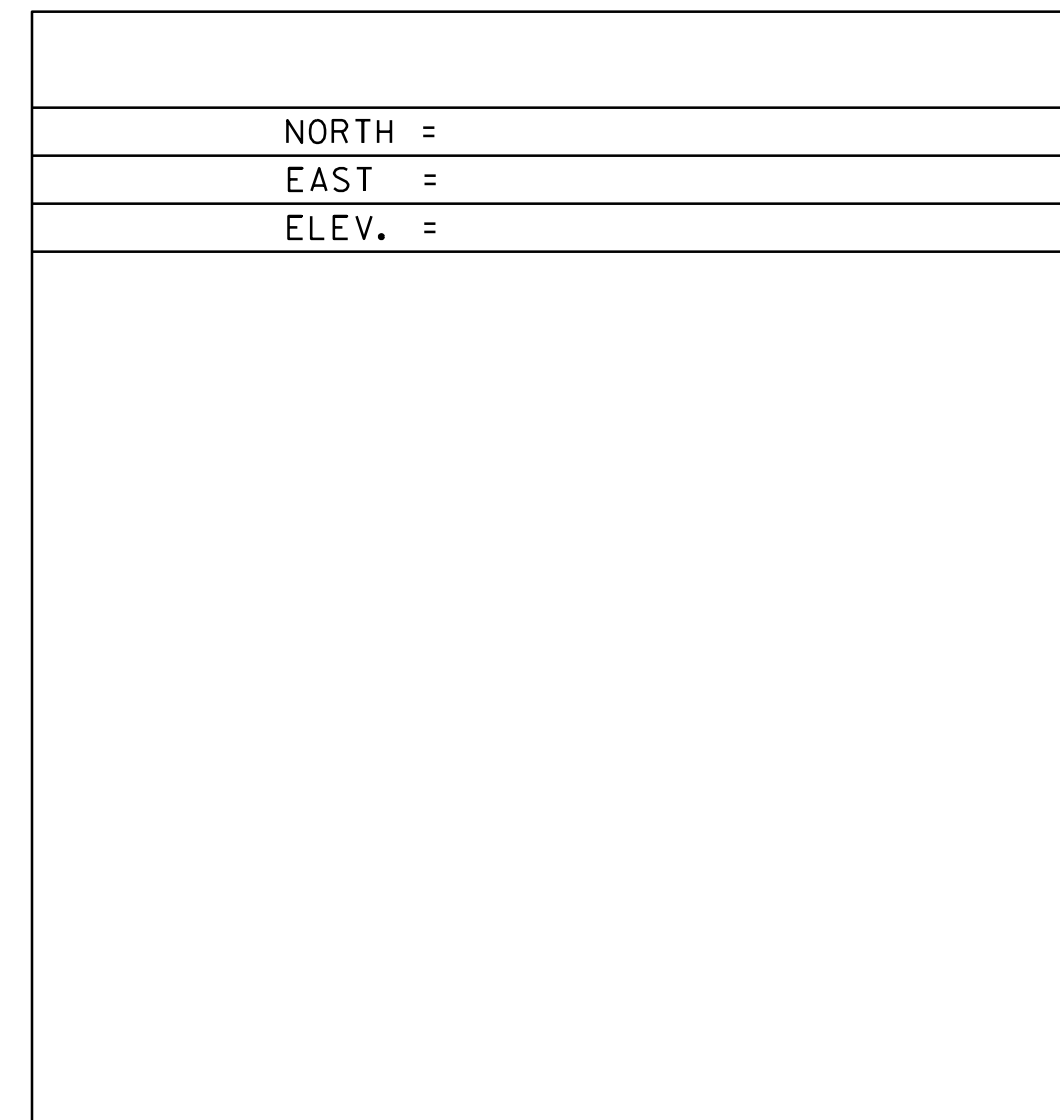
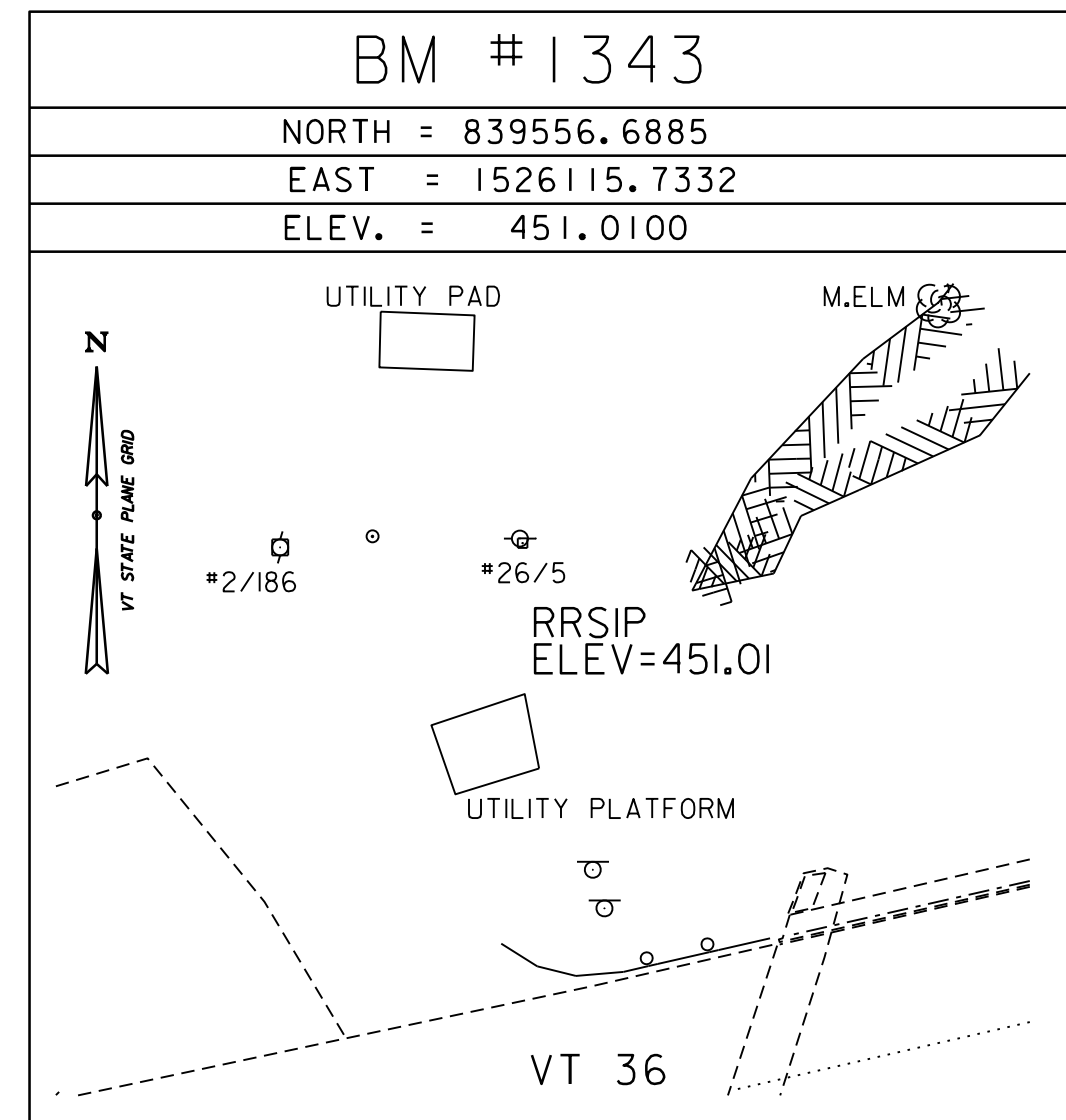
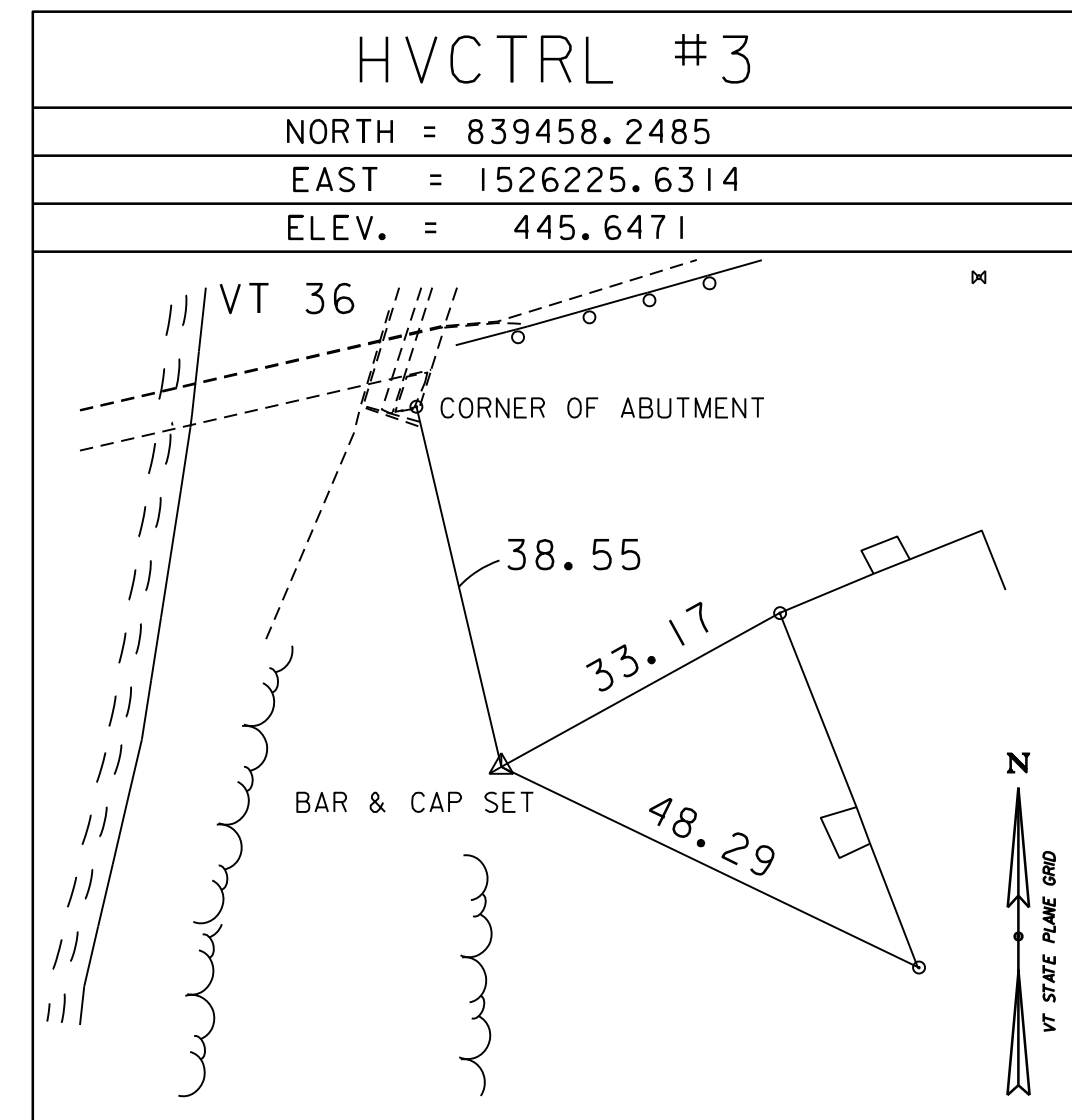
HVCTRL #2  
 NORTH = 839482.3860  
 EAST = 1525922.8210  
 ELEV. = 459.3800

TO REACH FROM THE INTERSECTION OF ROUTES 104 AND 36 IN ST ALBANS, GO EAST ON ROUTE 36 FOR 6.7 MI (10.8 KM) TO THE INTERSECTION OF NORTH AND SOUTH ROADS. CONTINUE EAST ON ROUTE 36 FOR 0.2 MI (0.3 KM) TO THE SITE OF THE MARK ON THE LEFT AT THE WEST END OF A GRAVEL PULLOUT.

THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 2 INCHES (5 CM) BELOW GROUND SURFACE.

IT IS 8.7 M (28.5 FT) NORTH OF AND ABOUT LEVEL WITH THE CENTERLINE OF ROUTE 36, 4.1 M (13.5 FT) SOUTHWEST OF A CONCRETE PROJECT MARKER POST, 13.0 M (42.7 FT) SOUTHWEST OF POLE 2/187A AND 27.8 M (91.2 FT) WEST OF THE CENTERLINE OF THE DRIVEWAY LEADING TO THE CHESTER ARTHUR APARTMENTS.

SECONDARY CONTROL



* MAIN TRAVERSE COMPLETED ON 1/23/2020 BY R.GILMAN T.CATTANEO AND H.MCGOWAN

ALIGNMENT TIES

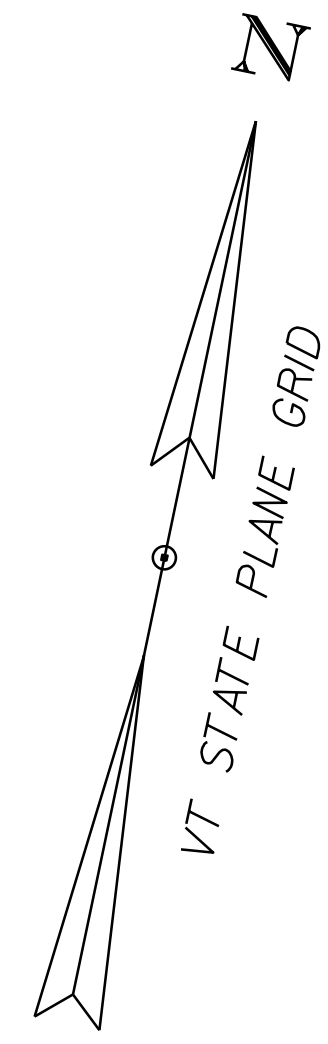
VT ROUTE 36				STATION	NORTHING	EASTING
PC	100+25.354	839514.9540	1526206.9570			
POB	98+00.00	839467.9030	1525986.6000			
PC	99+23.505	839492.0070	1526107.7310			
Radius:		700.00				
Delta:		02°00'33" Right				
Degree of Curvature (Arc):		08°11'06"				
Length:		24.54				
Tangent:		12.27				
External:		0.11				
PT	102+21.042	839585.7170	1526388.7190			
POE	103+00.00	839624.3360	1526457.5940			

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	FAIRFIELD	PLOT DATE:	24-JUN-2022
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	H. MCGOWAN
FILE NAME:	sl9b2l8tl.dgn	CHECKED BY:	R. GILMAN
PROJECT LEADER:	R. YOUNG	SHEET	5 OF 19
DESIGNED BY:	SURVEY		
TIE SHEET			

SOIL INFORMATION:  
 FARMINGTON ROCK OUTCROP  
 COMPLEX, K=0.32  
 6-15% SLOPES  
 HYDROLOGIC GROUP: D

SOIL INFORMATION:  
 MUNSON SILT LOAM, VERY  
 ROCKY K = 0.49,  
 8-15% SLOPES  
 HYDROLOGIC GROUP: C/D



n/f  
**HOWRIGAN,  
 RICHARD J. & KATHLEEN A.**

n/f  
**CHESTER A. ARTHUR  
 ASSOCIATES**

n/f  
**HOWRIGAN,  
 RICHARD J. & KATHLEEN A.**

**STATE OF VERMONT**

n/f  
**EBBS,  
 CHRISTOPHER M. & ELIZABETH L.**

n/f  
**JCS HOLDINGS, LLC**

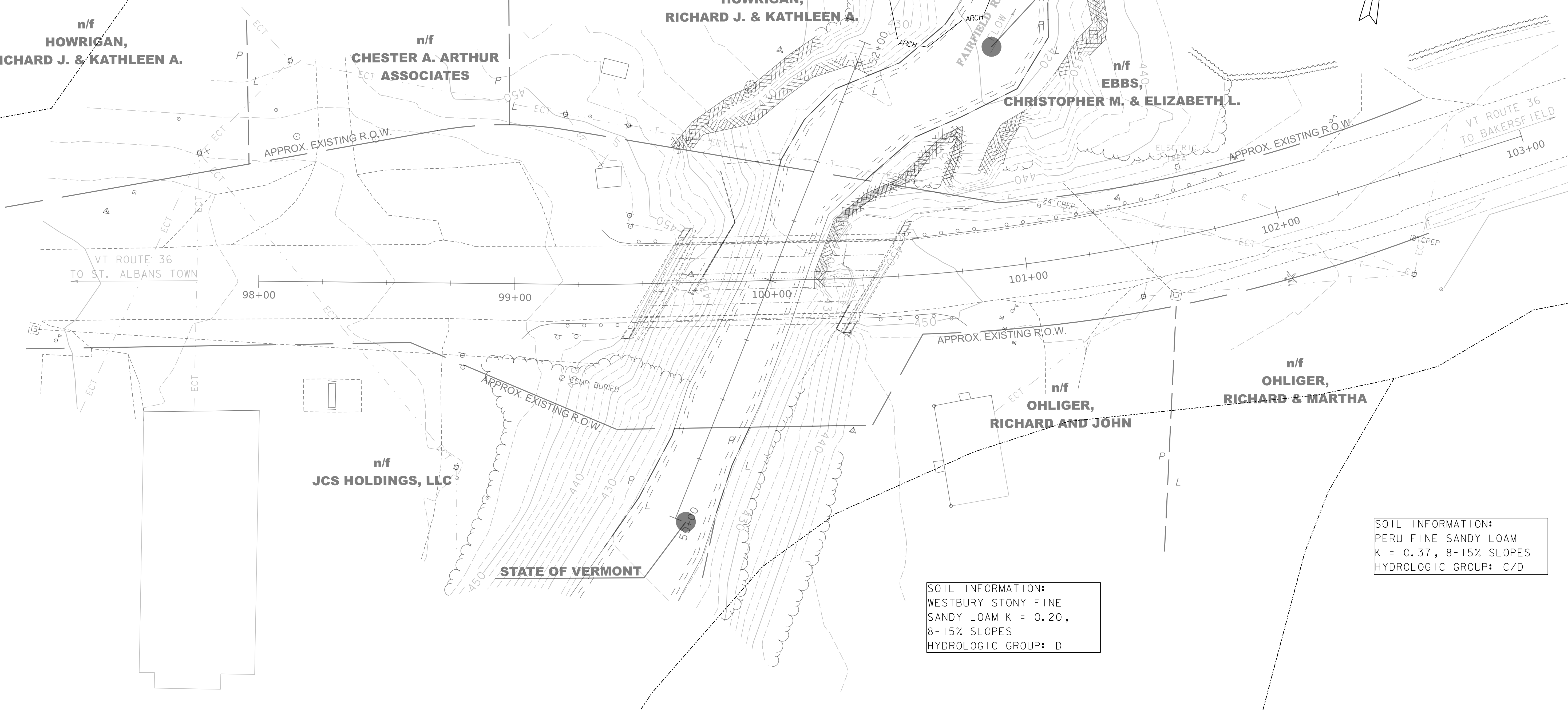
n/f  
**OHLIGER,  
 RICHARD AND JOHN**

n/f  
**OHLIGER,  
 RICHARD & MARTHA**

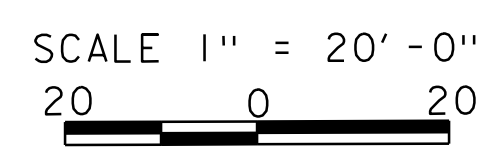
**STATE OF VERMONT**

SOIL INFORMATION:  
 WESTBURY STONY FINE  
 SANDY LOAM K = 0.20,  
 8-15% SLOPES  
 HYDROLOGIC GROUP: D

SOIL INFORMATION:  
 PERU FINE SANDY LOAM  
 K = 0.37, 8-15% SLOPES  
 HYDROLOGIC GROUP: C/D



PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(51)	
FILE NAME: sl9b218epsc.dgn	PLOT DATE: 24-JUN-2022
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
EXISTING EPSC SITE PLAN	SHEET 6 OF 19



4 INCH WHITE LINE, WATERBORNE PAINT  
98+00.00 - 102+75.00 LT & RT

4 INCH YELLOW LINE, WATERBORNE PAINT  
98+00.00 - 102+75+00.00

PAVED APRONS  
98+00.00 - 98+80.00 RT  
102+23.28 - 102+75.00 RT

REMOVE MAILBOX  
101+44.00 RT

REMOVE AND RESET SIGNS  
99+16.83 RT  
99+24.09 RT  
99+45.63 LT  
100+54.03 LT

TYPE II STONE  
99+27.77 - 99+77.76 LT  
99+30.00 - 99+42.12 RT

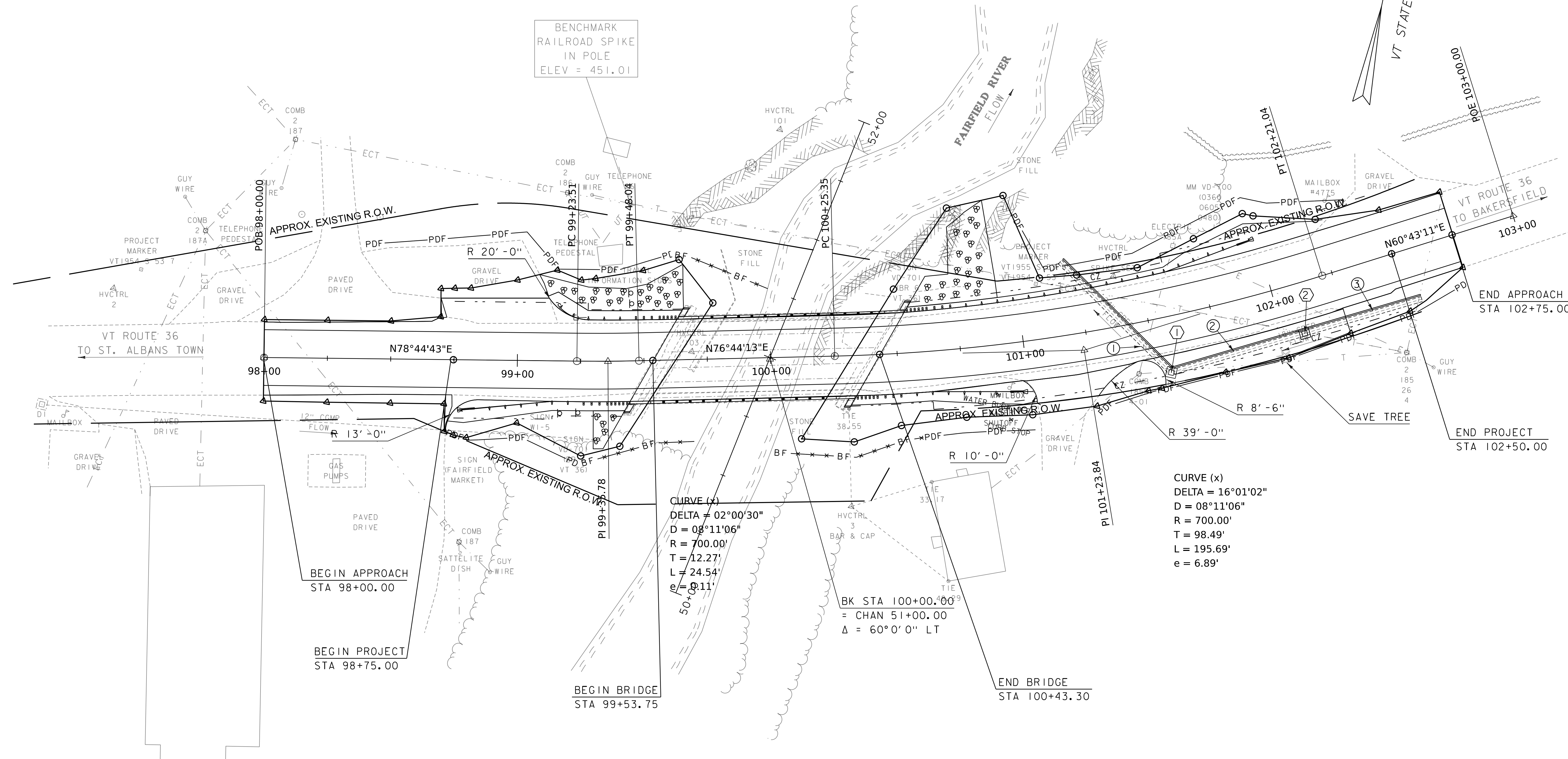
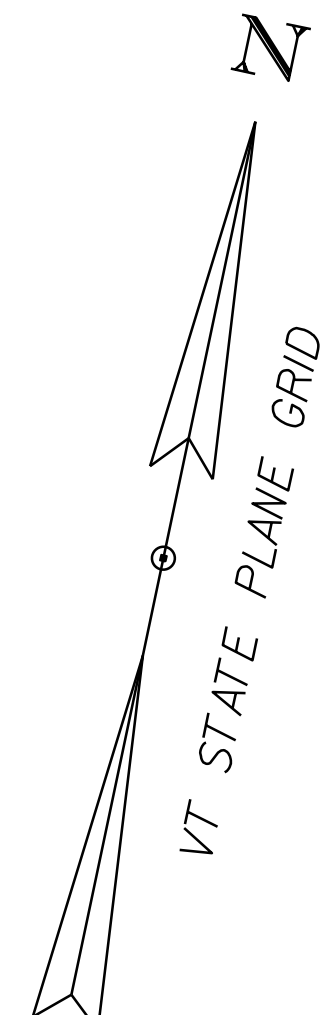
ADJUST ELEVATION OF D1  
101+54.74 RT  
102+08.00 RT

TYPE III STONE  
100+55.15 LT - 100+86.96 LT

RE-LAYING PIPE CULVERTS  
101+54.74 - 102+55.78 RT

UNDERDRAIN PIPE, 6"  
101+19.28 LT - 101+54.10 RT

UNDERDRAIN CARRIER PIPE, 6"  
101+55.75 - 102+55.78 RT



BENCHMARK  
RAILROAD SPIKE  
IN POLE  
ELEV = 451.01

CURVE (x)  
DELTA = 02°00'30"  
D = 08°11'06"  
R = 700.00'  
T = 12.27'  
L = 24.54'  
e = 9.11'

CURVE (x)  
DELTA = 16°01'02"  
D = 08°11'06"  
R = 700.00'  
T = 98.49'  
L = 195.69'  
e = 6.89'

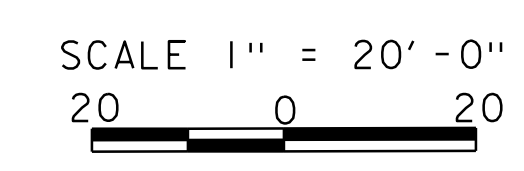
BK STA 100+00.00  
= CHAN 51+00.00  
Δ = 60°0'0" LT

EXISTING BRIDGE INFORMATION  
SINGLE SPAN ROLLED BEAM BRIDGE  
CONCRETE CAST-IN-PLACE DECK  
BUILT 1955  
89' SPAN LENGTH

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

FILE NAME: s19B218bdr.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
LAYOUT SHEET

PLOT DATE: 24-JUN-2022  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 7 OF 19





REMOVAL AND DISPOSAL OF GUARDRAIL

99+33.94 - 99+61.79 LT  
99+02.81 - 99+43.50 RT  
100+53.52 - 100+88.97 LT  
100+35.67 - 100+74.62 RT

HD STEEL BEAM GUARDRAIL, GALVANIZED

99+15.92 - 99+60.27 LT  
99+13.97 - 99+26.33 RT  
100+72.54 - 101+60.26 LT  
100+50.66 - 100+62.83 RT

ANCHOR FOR STEEL BEAM RAIL

99+32.97 LT

BRIDGE RAILING, COMBINATION

99+63.99 - 100+54.45 LT  
99+43.63 - 100+33.38 RT

GUARDRAIL APPROACH SECTION TO CONC. COMB. RAILING, TL-3

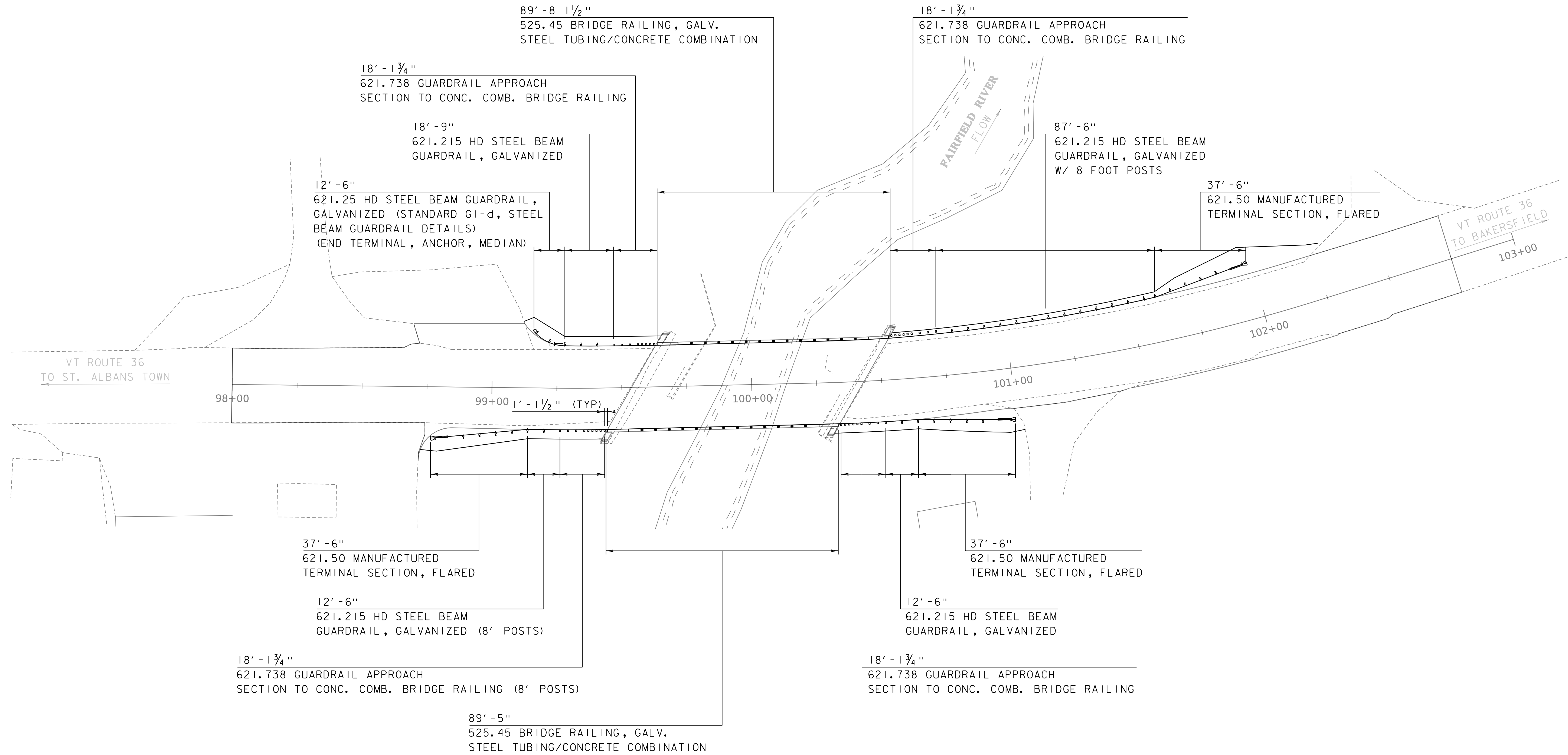
99+26.32 - 99+43.05 RT  
99+47.23 - 99+62.88 LT  
100+33.89 - 100+50.66 RT  
100+54.91 - 100+72.54 LT

HD STEEL BEAM GUARDRAIL, GALV. W/ 8 FOOT POSTS

100+72.54 - 101+60.29 LT

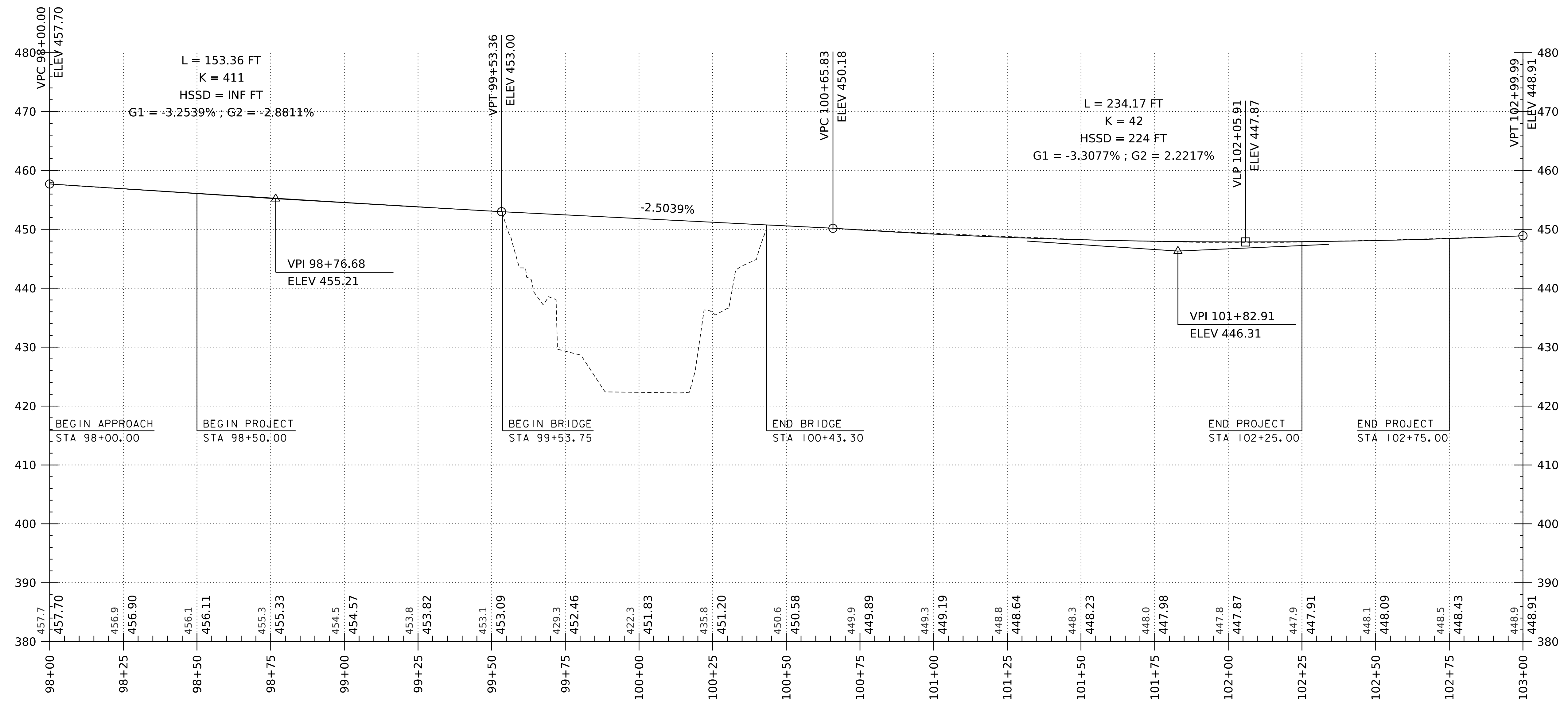
MANUFACTURED TERMINAL END SECTION, FLARED

98+76.58 - 99+13.87 RT  
101+60.27 - 101+97.78 LT



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

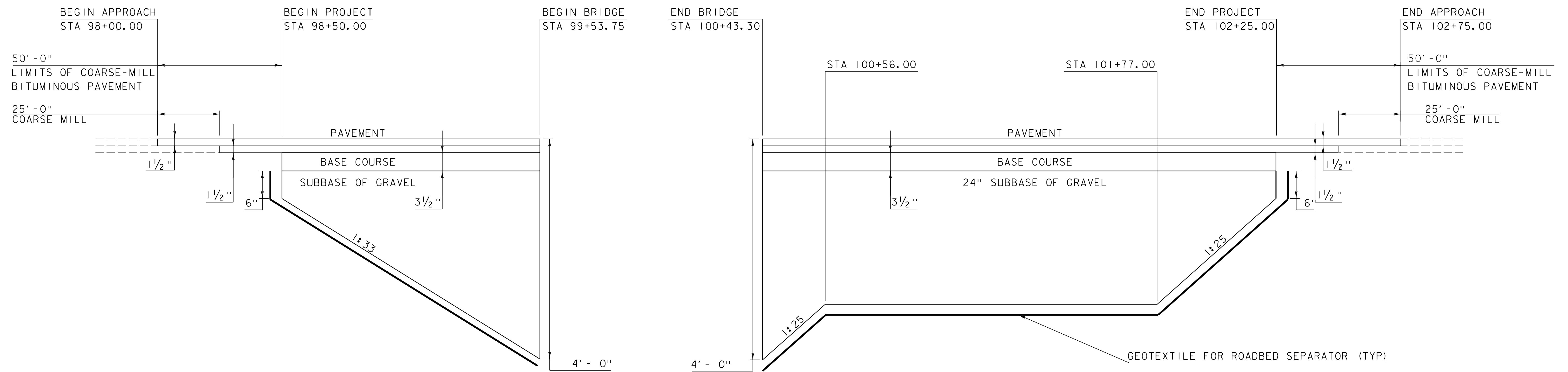
PROJECT NAME: FAIRFIELD	PLOT DATE: 24-JUN-2022
PROJECT NUMBER: STP DECK(5I)	DRAWN BY: J. PAQUETTE
FILE NAME: s19b218rail.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: R. YOUNG	SHEET 8 OF 19
DESIGNED BY: J. PAQUETTE	
RAIL LAYOUT	



NOTE:  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG CENTER LINE  
 GRADES SHOWN TO THE NEAREST HUNDRETH ARE FINISH GRADE ALONG CENTER LINE

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

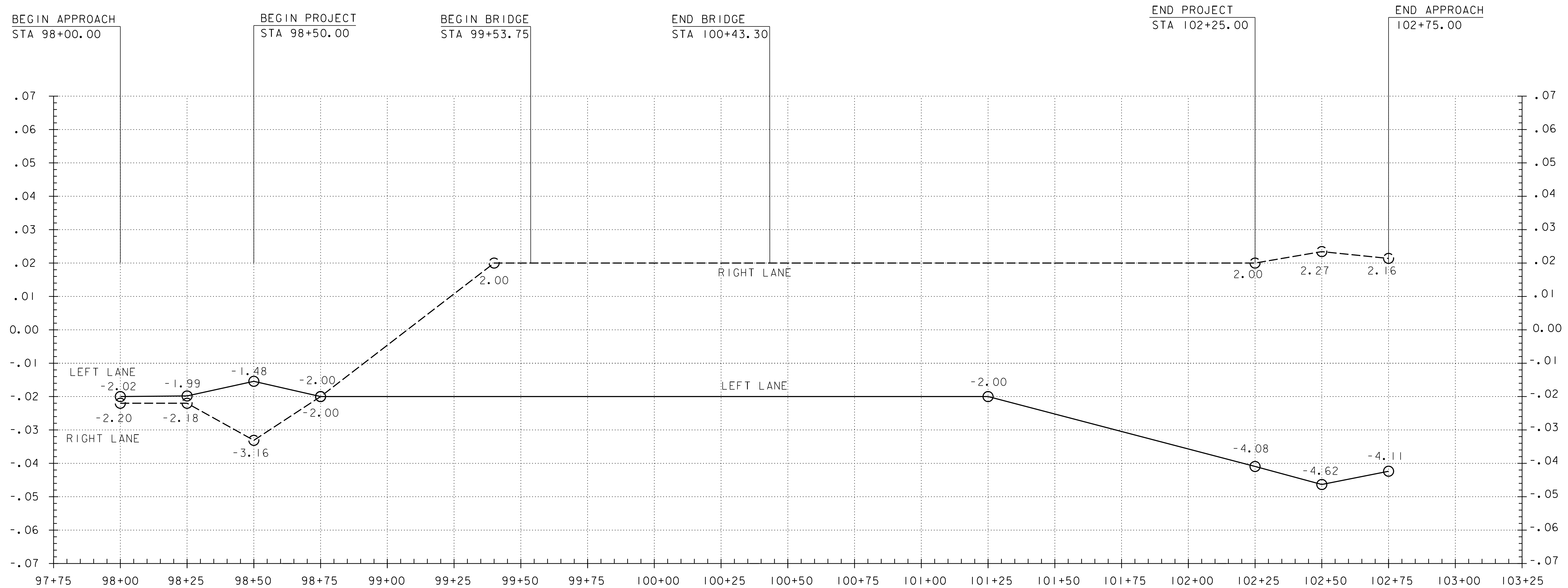
PROJECT NAME:	FAIRFIELD
PROJECT NUMBER:	STP DECK (5I)
FILE NAME:	sl9b2l8VT36profile2.dgn
PROJECT LEADER:	R. YOUNG
DESIGNED BY:	J. PAQUETTE
PROFILE	
PLOT DATE:	24-JUN-2022
DRAWN BY:	J. PAQUETTE
CHECKED BY:	D. PETERSON
SHEET	9 OF 19



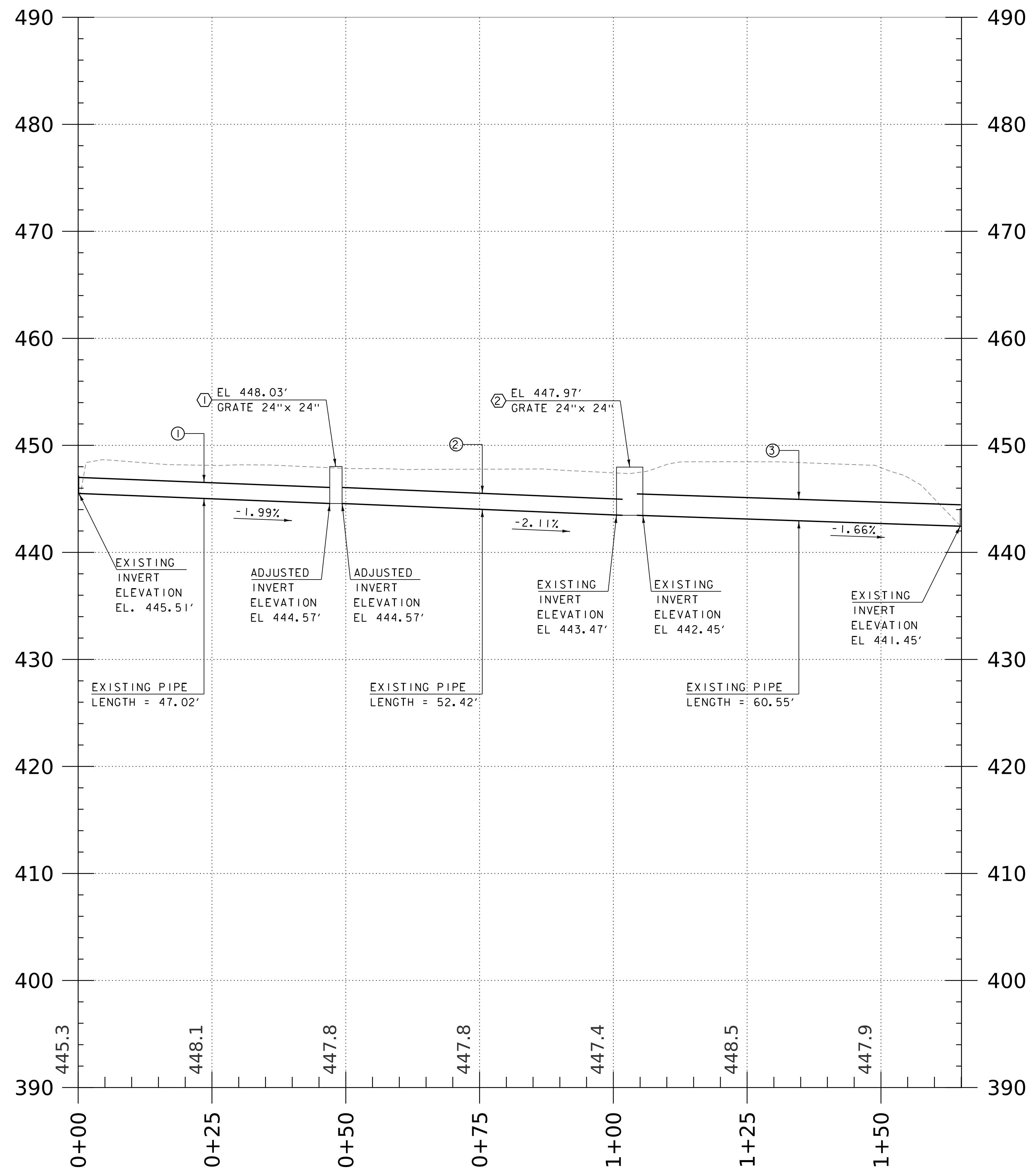
SCALE: HORIZONTAL: 1"=20'-0"  
 VERTICAL: NTS

SEE TYPICAL SECTIONS SHEET FOR  
 PAVEMENT DEPTHS

PROJECT NAME: FAIRFIELD	PLOT DATE: 24-JUN-2022
PROJECT NUMBER: STP DECK(51)	DRAWN BY: J. PAQUETTE
FILE NAME: s19b218mattrans.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: R. YOUNG	SHEET 10 OF 19
DESIGNED BY: D. PETERSON	
MATERIAL TRANSITION DIAGRAM	

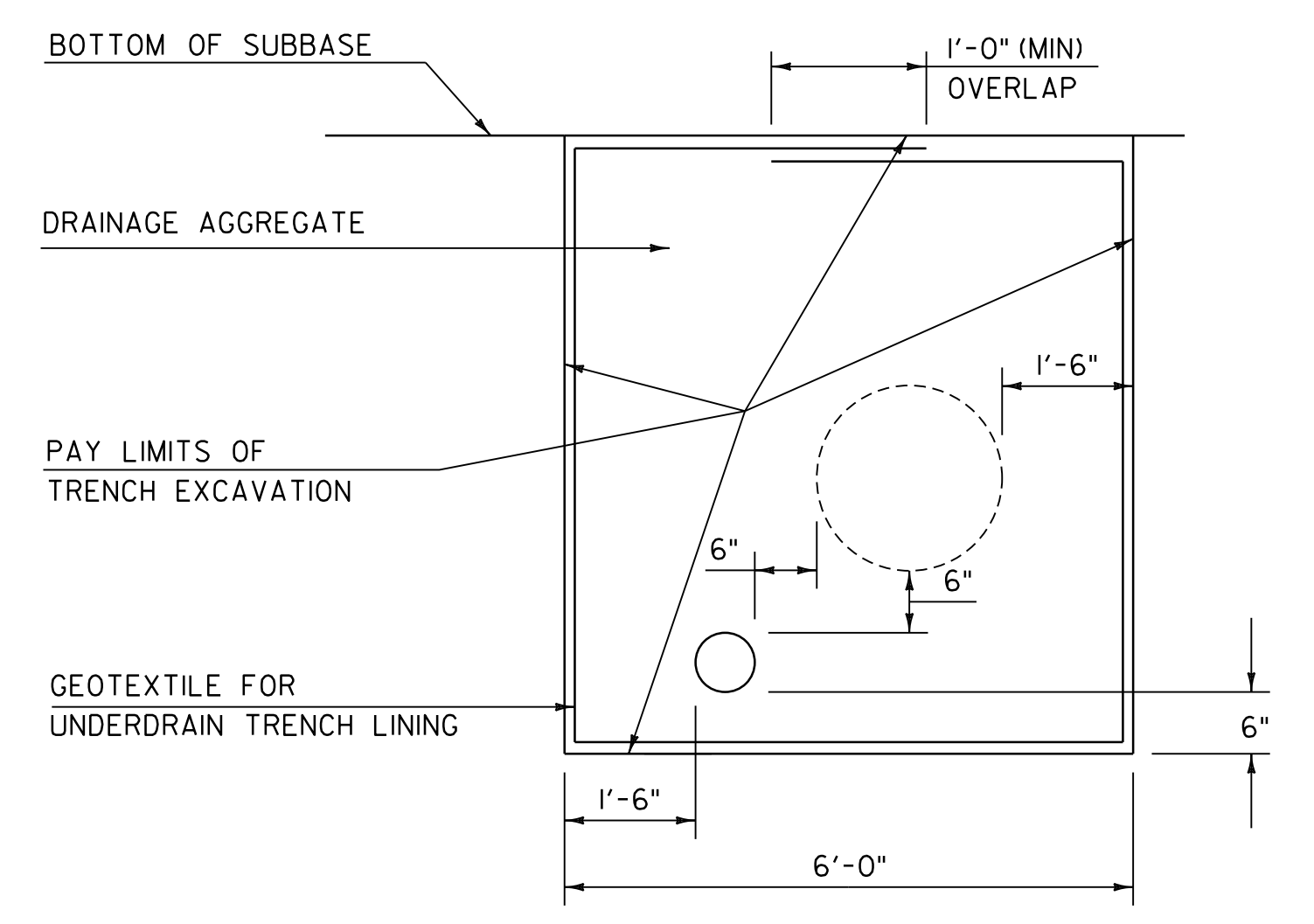


PROJECT NAME:	FAIRFIELD	PLOT DATE:	24-JUN-2022
PROJECT NUMBER:	STP DECK(51)	DRAWN BY:	J. PAQUETTE
FILE NAME:	I9B218banking.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	R. YOUNG	BANKING DIAGRAM	SHEET 11 OF 19
DESIGNED BY:	J. PAQUETTE		



NOTES:

- ① EXISTING PIPE SHALL BE EXCAVATED AND RESET TO THE ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET.
- ① EXISTING DI SHALL BE EXCAVATED AND RESET TO PROVIDE THE INVERT ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET. THE GRATE SHALL BE ADJUSTED TO MATCH PROPOSED FINISH SLOPE GRADES.
- ② EXISTING PIPE SHALL BE EXCAVATED AND RESET TO THE ELEVATIONS SHOWN IN THE PROFILE ON THIS SHEET.
- ② EXISTING DI SHALL REMAIN IN PLACE. GRATE SHALL BE ADJUSTED TO MATCH PROPOSED FINISH SLOPE GRADES.
- ③ EXISTING PIPE TO REMAIN IN PLACE.



DRAINAGE AGGREGATE SHALL MEET THE REQUIREMENTS OF SECTION 704.

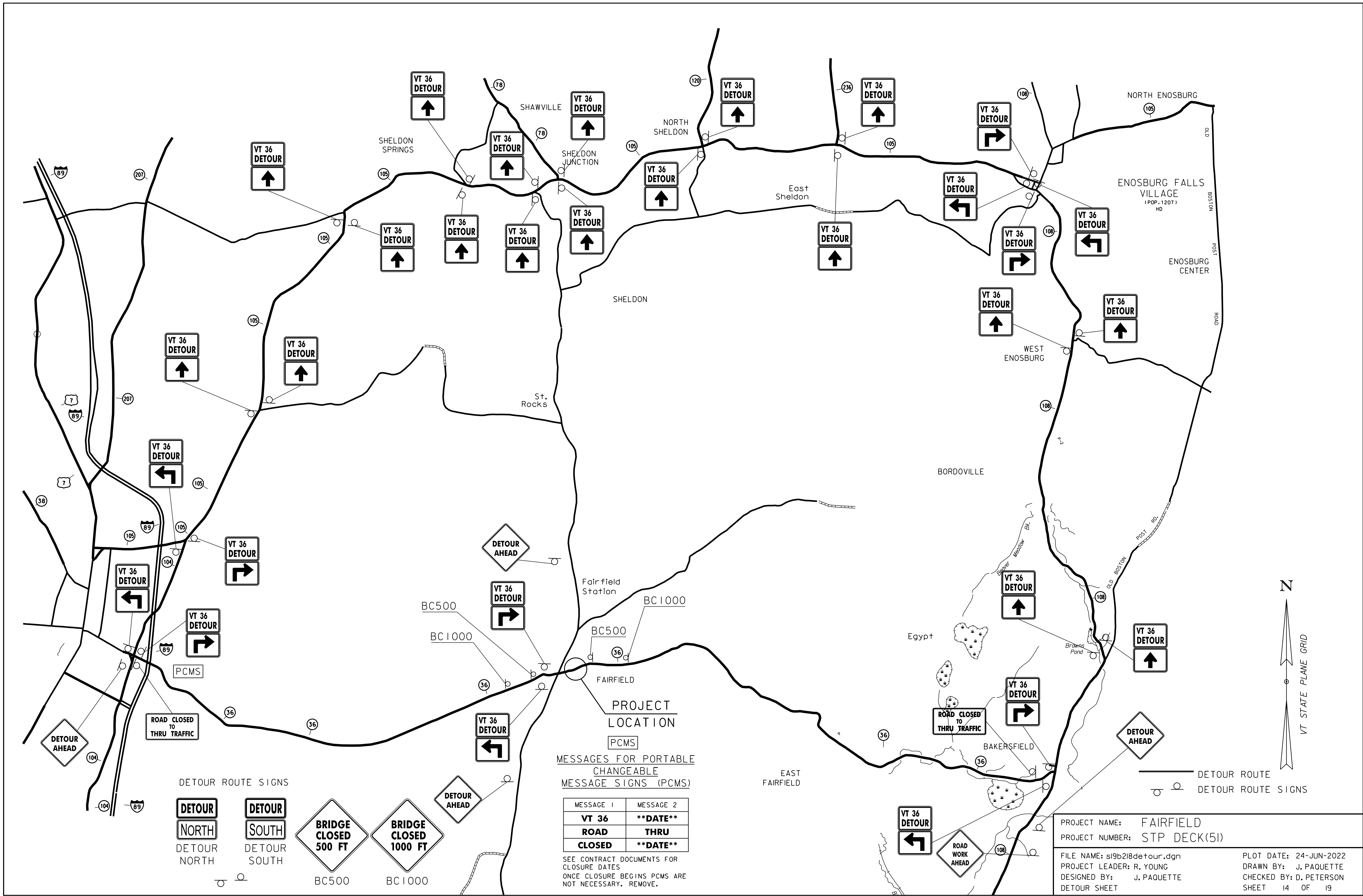
UNDERDRAIN

PROJECT NAME: FAIRFIELD	PLOT DATE: 24-JUN-2022
PROJECT NUMBER: STP DECK(5I)	DRAWN BY: J. PAQUETTE
FILE NAME: s19b218_Pipe_Profile.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: R. YOUNG	SHEET 12 OF 19
DESIGNED BY: J. PAQUETTE	
PIPE PROFILE	

# DRAINAGE DETAIL SHEET

STATION	STATION	POS.	ASKEW NO. DEG.	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS										PIPE ELBOW NO. DEG.	ES EA	CB EA	PR CG DI	DEPTH DI FT	CONC CLASS B CY	REINF STEEL LBS	DI GRATE TYPE	CHAN ELEV EA	CRM CY	TRENCH EXCAVATION		COMM EXC CY	UNC CHAN EXC CY	STRUCT EXCAV CY	GRAN BK FILL STRUCT CY	GRAN BORR CY	EROS MATT SY	STONE FILL		MARKER POSTS		REMARKS
				INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	CAAP TH	RCP CL	CSP TH	CPEP SL	PCCSP PI TH	EARTH CY	ROCK CY	CY	CY											CY	CY							CY	CY	CY	CY	
101+19.29	101+54.11	LT/RT			PIPE						24	55																										1	EXISTING 24" DIA CPEP PIPE AND NEW 6" UNDERDRAIN CARREIR PIPE EXISTING CATCH BASIN						
101+54.79	---	RT																					X	4.86														1	EXISTING 24" DIA CPEP PIPE AND NEW 6" UNDERDRAIN CARREIR PIPE EXISTING CATCH BASIN						
101+55.75	102+06.05	RT									18	53																									2	EXISTING 18" DIA CPEP PIPE AND NEW 6" UNDERDRAIN PIPE EXISTING CATCH BASIN							
102+08.03	---	RT																						X	4													2	EXISTING 18" DIA CPEP PIPE AND NEW 6" UNDERDRAIN PIPE EXISTING CATCH BASIN						
102+09.94	102+55.78	RT			PIPE		X				18	47																									3	EXISTING 18" DIA CPEP PIPE AND NEW 6" UNDERDRAIN PIPE							

PROJECT NAME: FAIRFIELD	PLOT DATE: 24-JUN-2022
PROJECT NUMBER: STP DECK(5I)	DRAWN BY: J. PAQUETTE
FILE NAME: s19b218VT36drain.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: R. YOUNG	SHEET 13 OF 19
DESIGNED BY: J. PAQUETTE	
DRAINAGE DETAIL SHEET	



DETOUR ROUTE SIGNS

**DETOUR NORTH**  
**DETOUR SOUTH**

**BRIDGE CLOSED 500 FT**  
**BRIDGE CLOSED 1000 FT**

DETOUR AHEAD

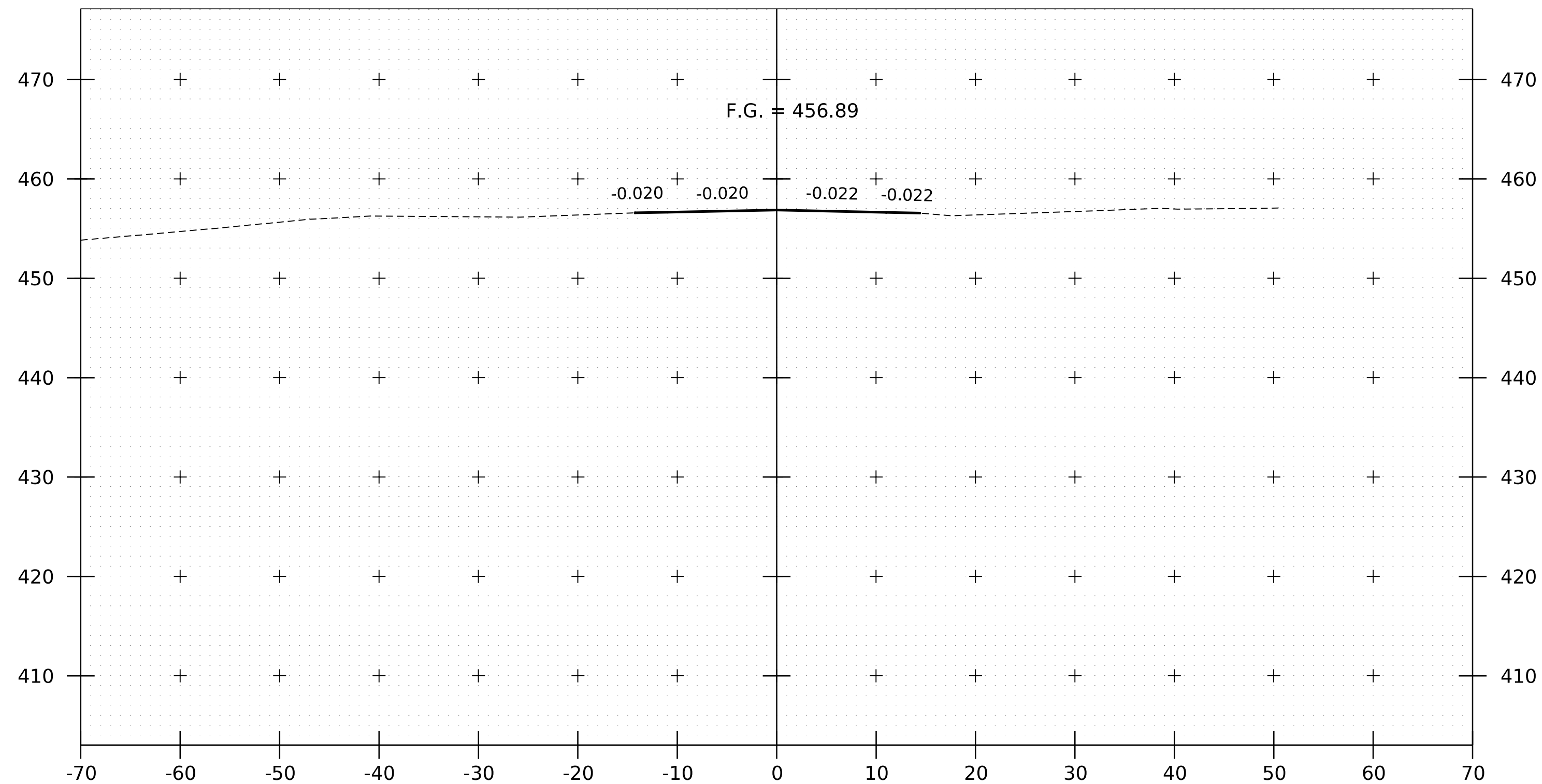
MESSAGES FOR PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

MESSAGE 1	MESSAGE 2
<b>VT 36 ROAD CLOSED</b>	<b>**DATE** THRU **DATE**</b>

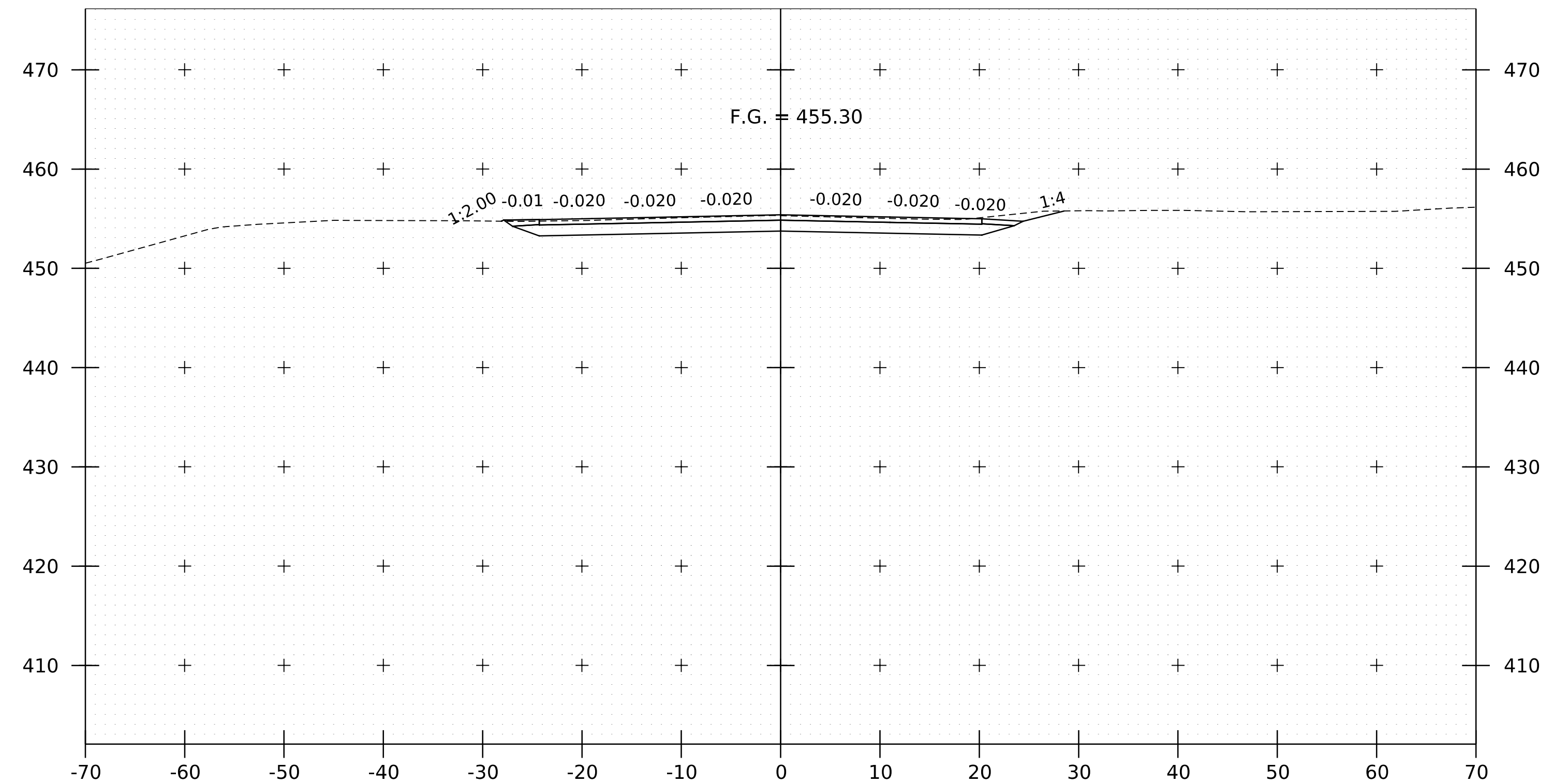
SEE CONTRACT DOCUMENTS FOR CLOSURE DATES  
 ONCE CLOSURE BEGINS PCMS ARE NOT NECESSARY. REMOVE.

PROJECT NAME: **FAIRFIELD**  
 PROJECT NUMBER: **STP DECK(51)**  
 FILE NAME: sl9b218detour.dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: J. PAQUETTE  
 DETOUR SHEET

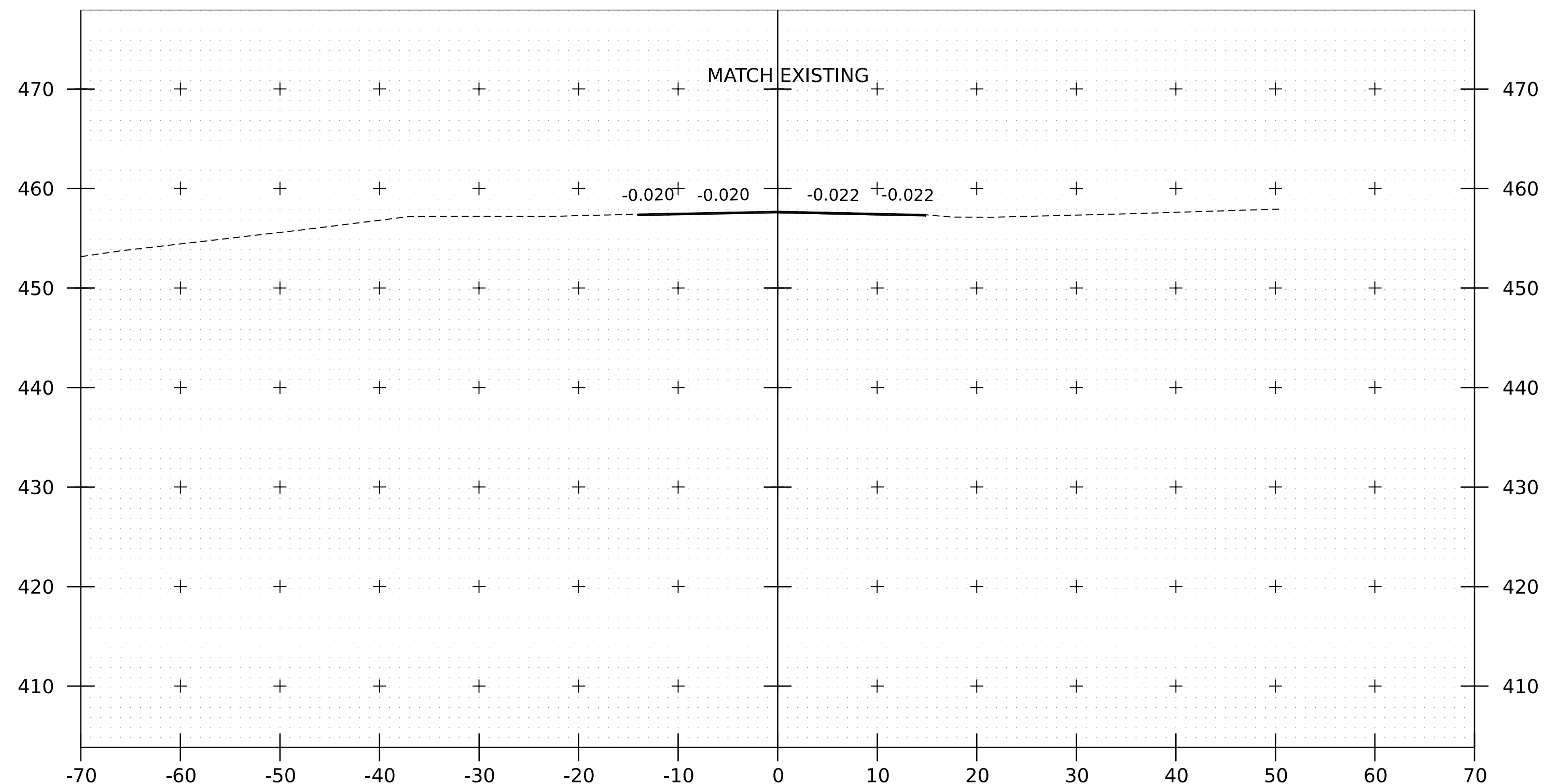
PLOT DATE: 24-JUN-2022  
 DRAWN BY: J. PAQUETTE  
 CHECKED BY: D. PETERSON  
 SHEET 14 OF 19



98+25

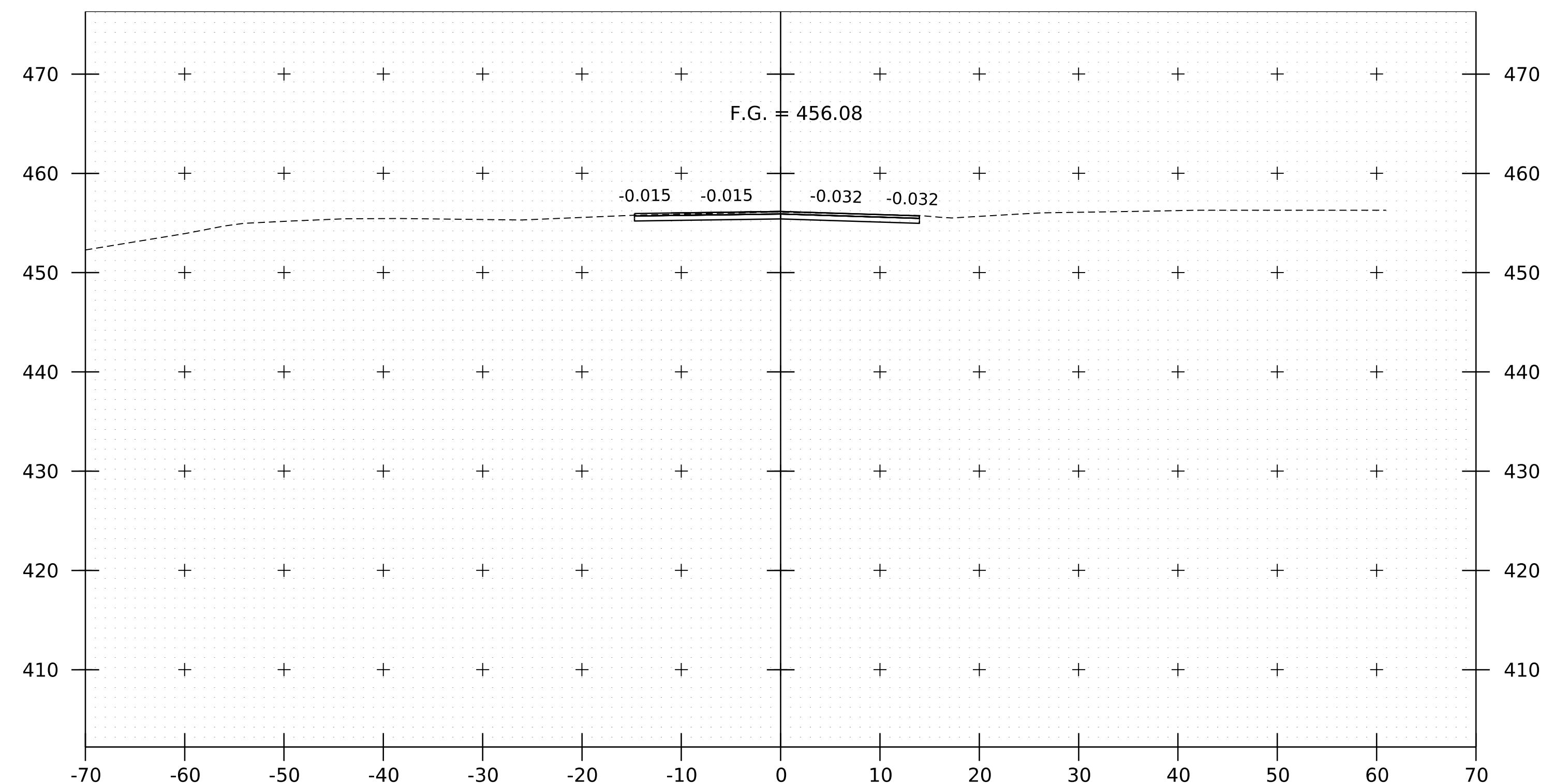


98+75



98+00

BEGIN APPROACH



98+50

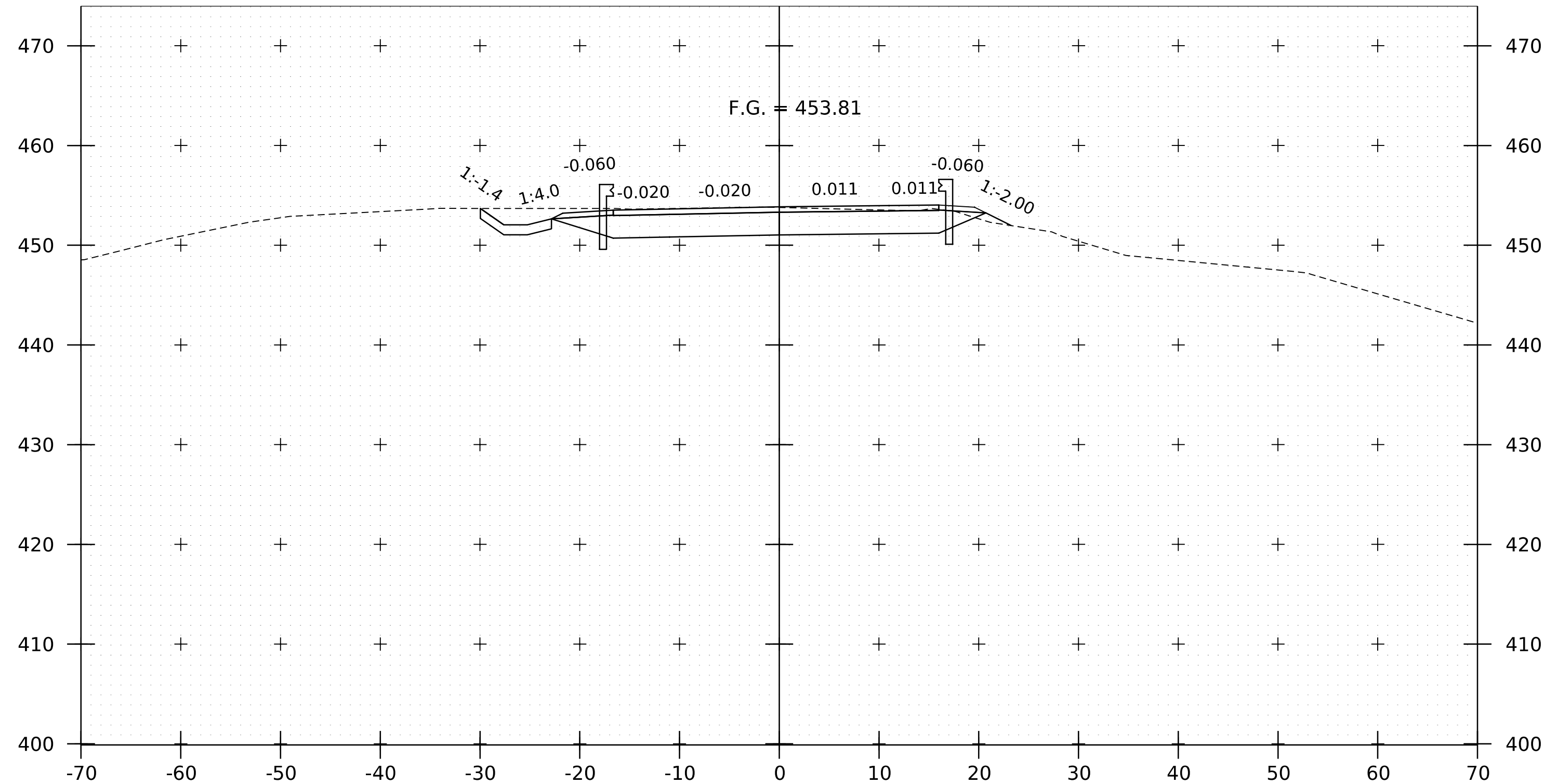
BEGIN PROJECT

PROJECT NAME: FAIRFIELD  
PROJECT NUMBER: STP DECK(5I)

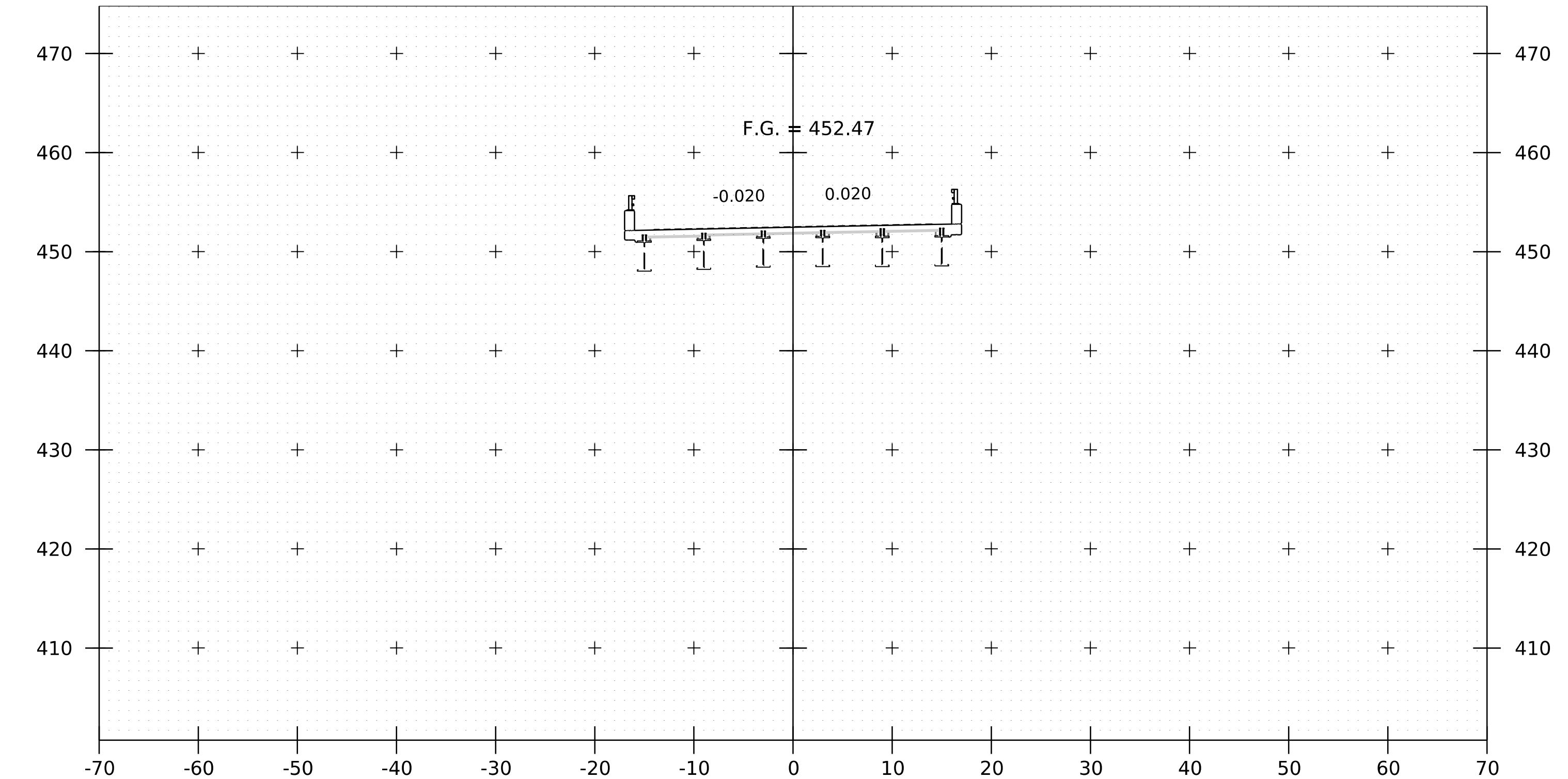
FILE NAME: s19B218VT36_XS.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: J. PAQUETTE  
ROADWAY CROSS SECTIONS I

PLOT DATE: 24-JUN-2022  
DRAWN BY: J. PAQUETTE  
CHECKED BY: D. PETERSON  
SHEET 15 OF 19

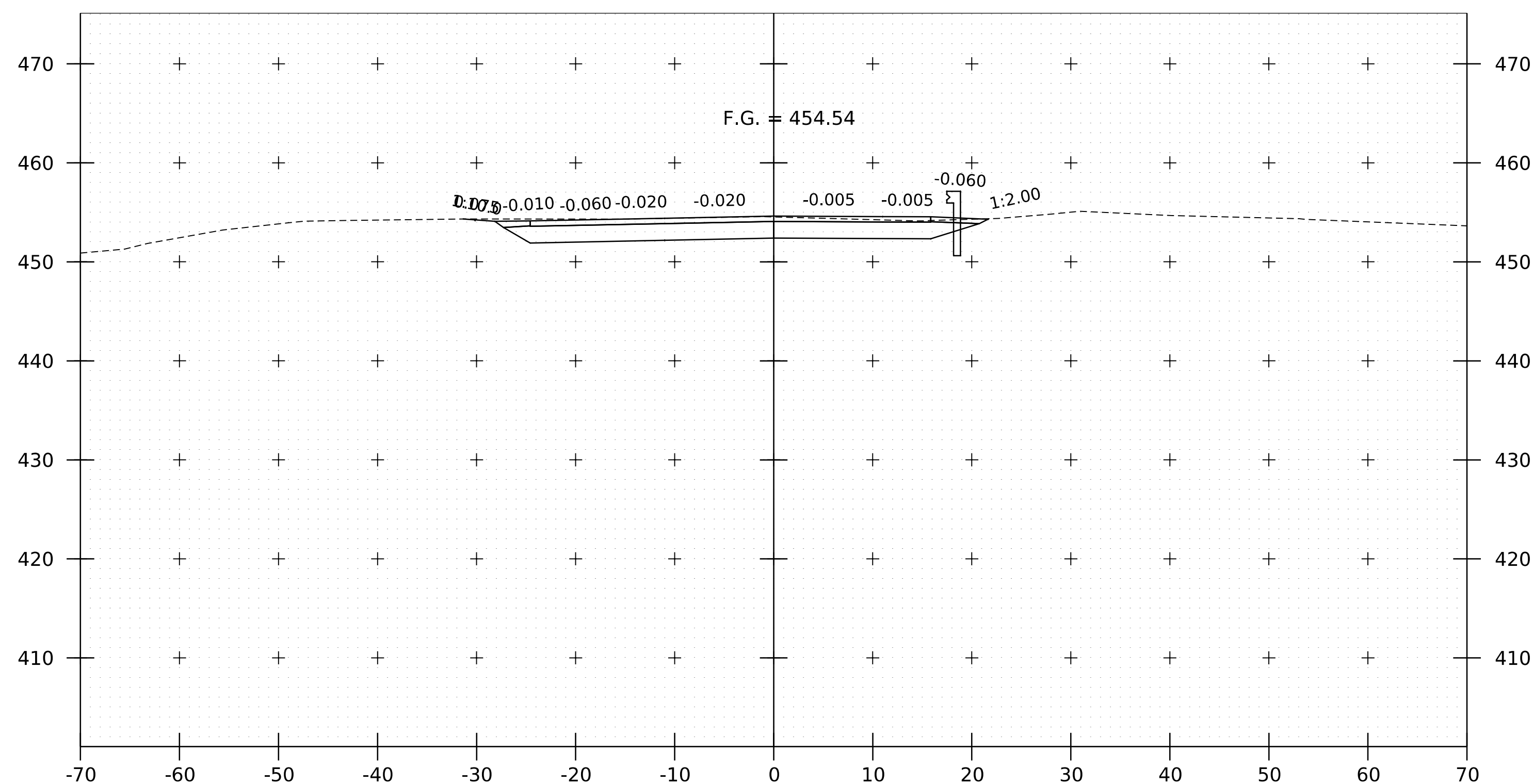




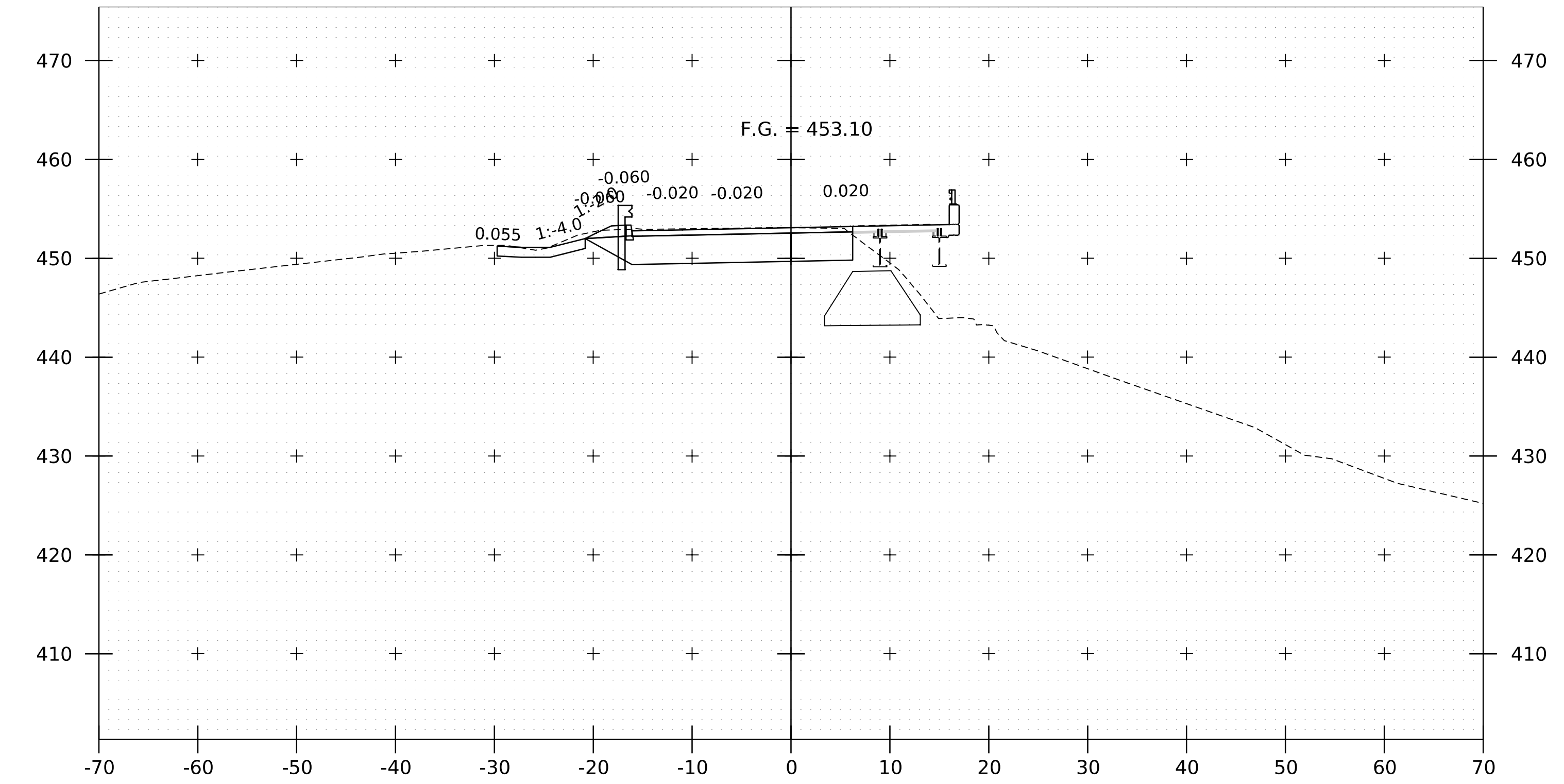
99+25



99+75

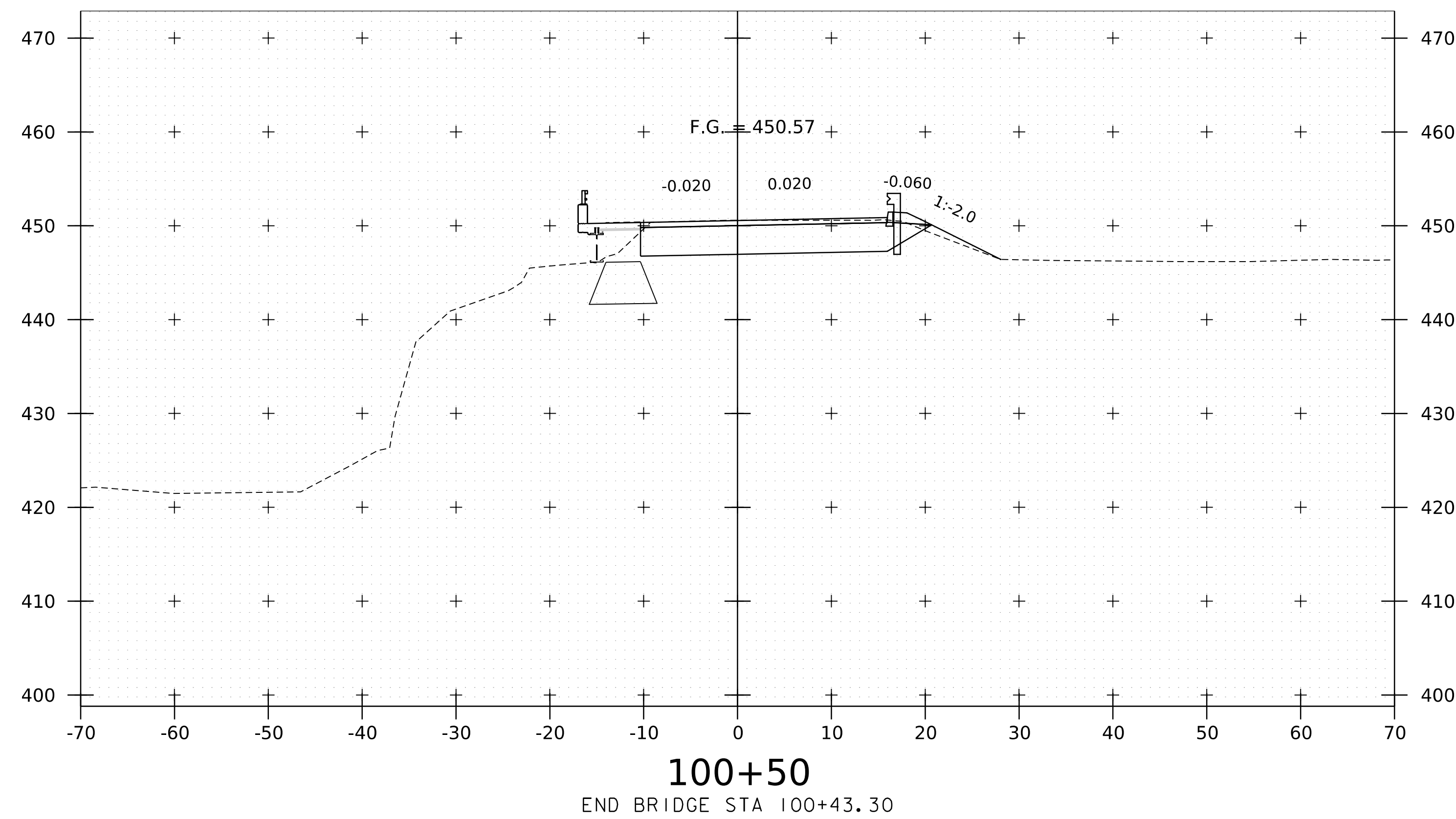
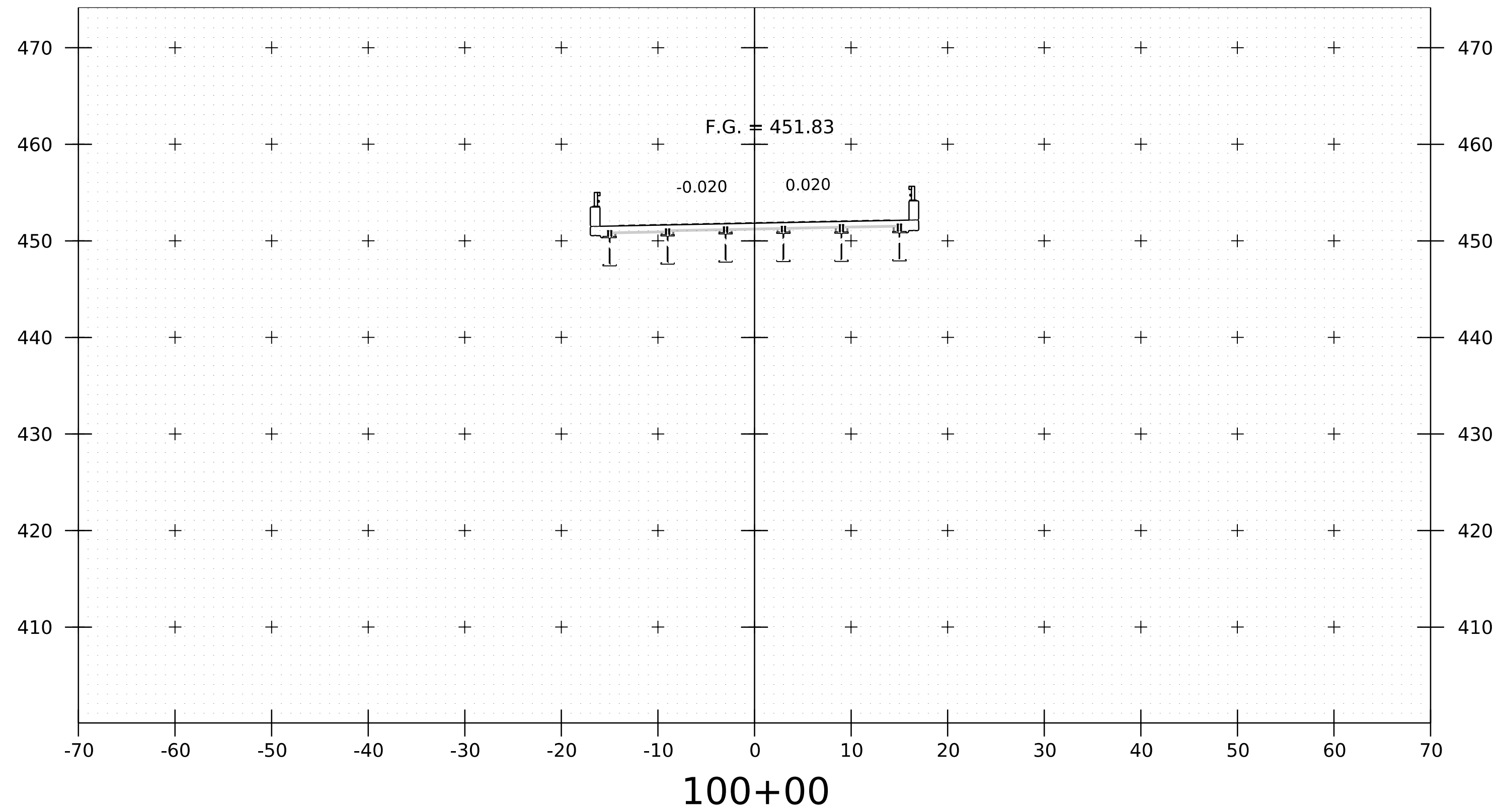
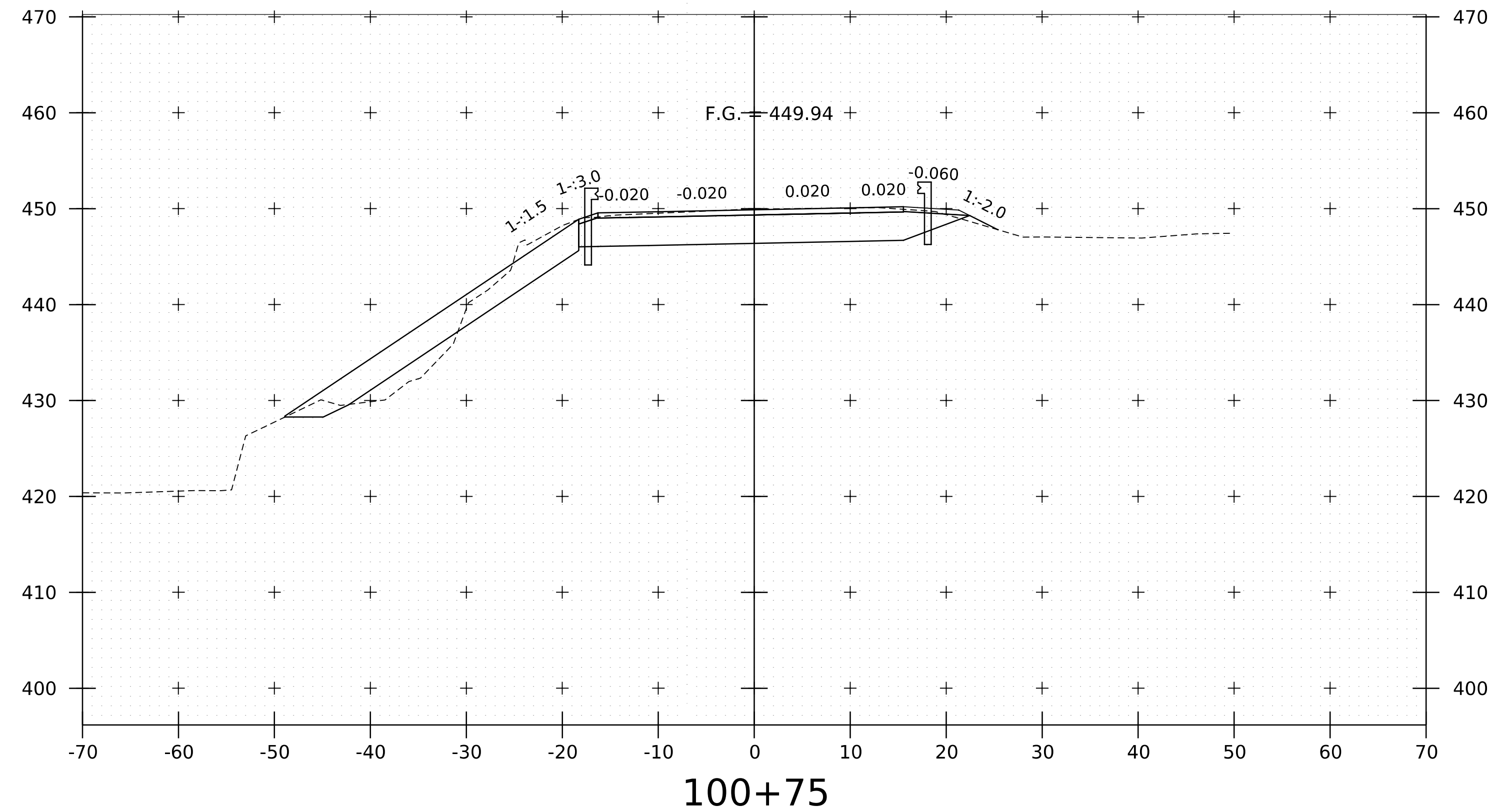
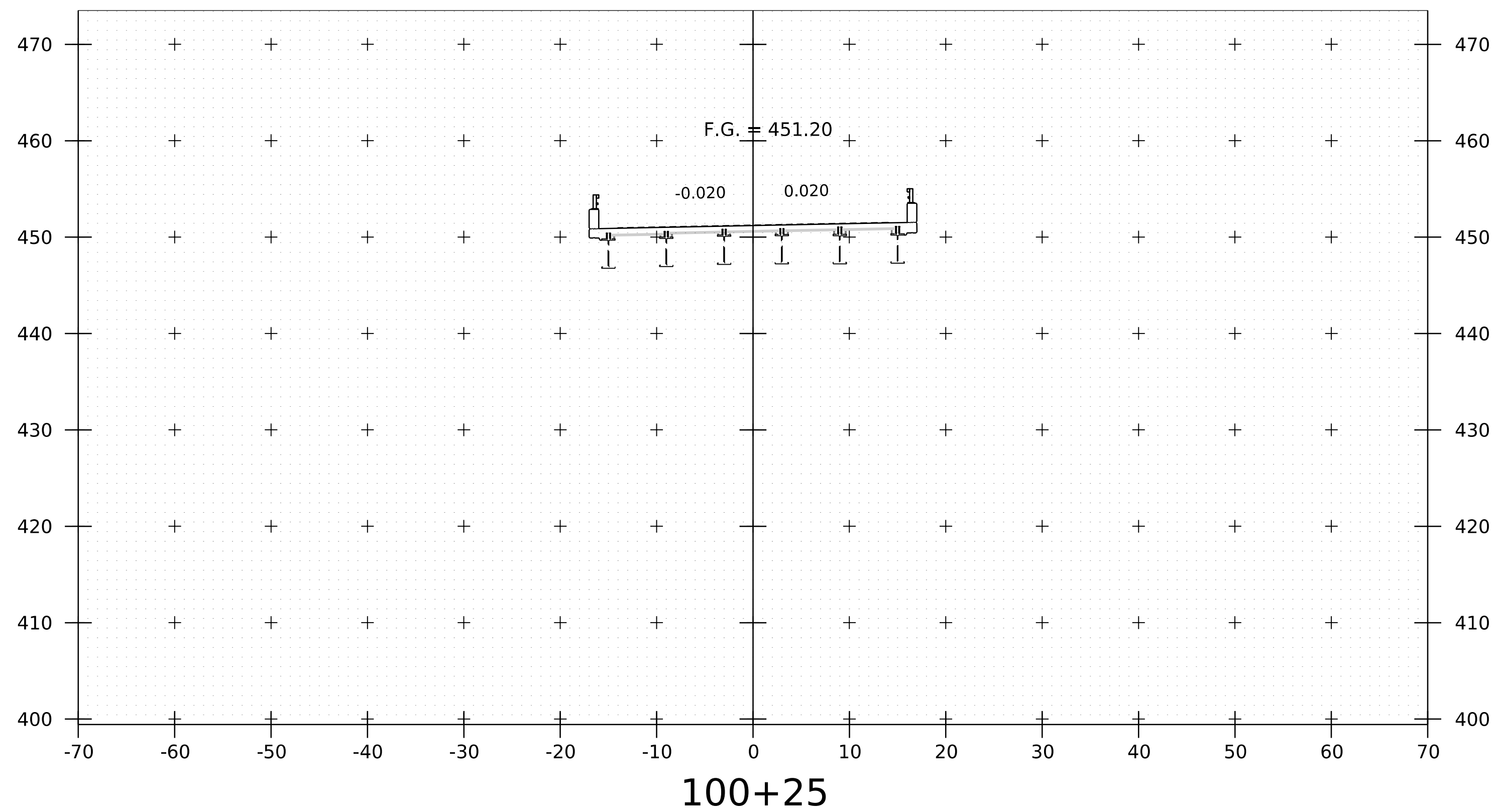


99+00

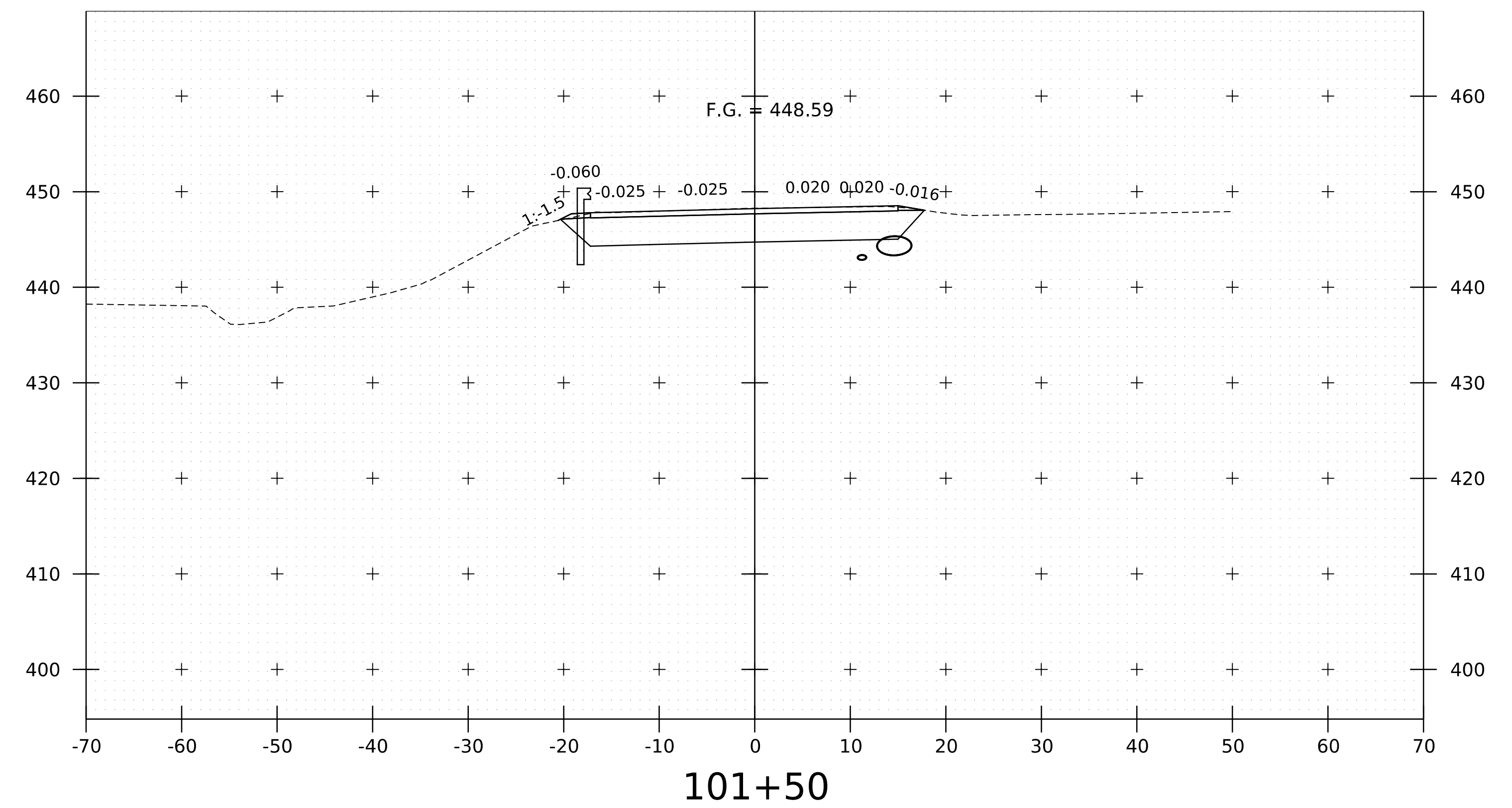
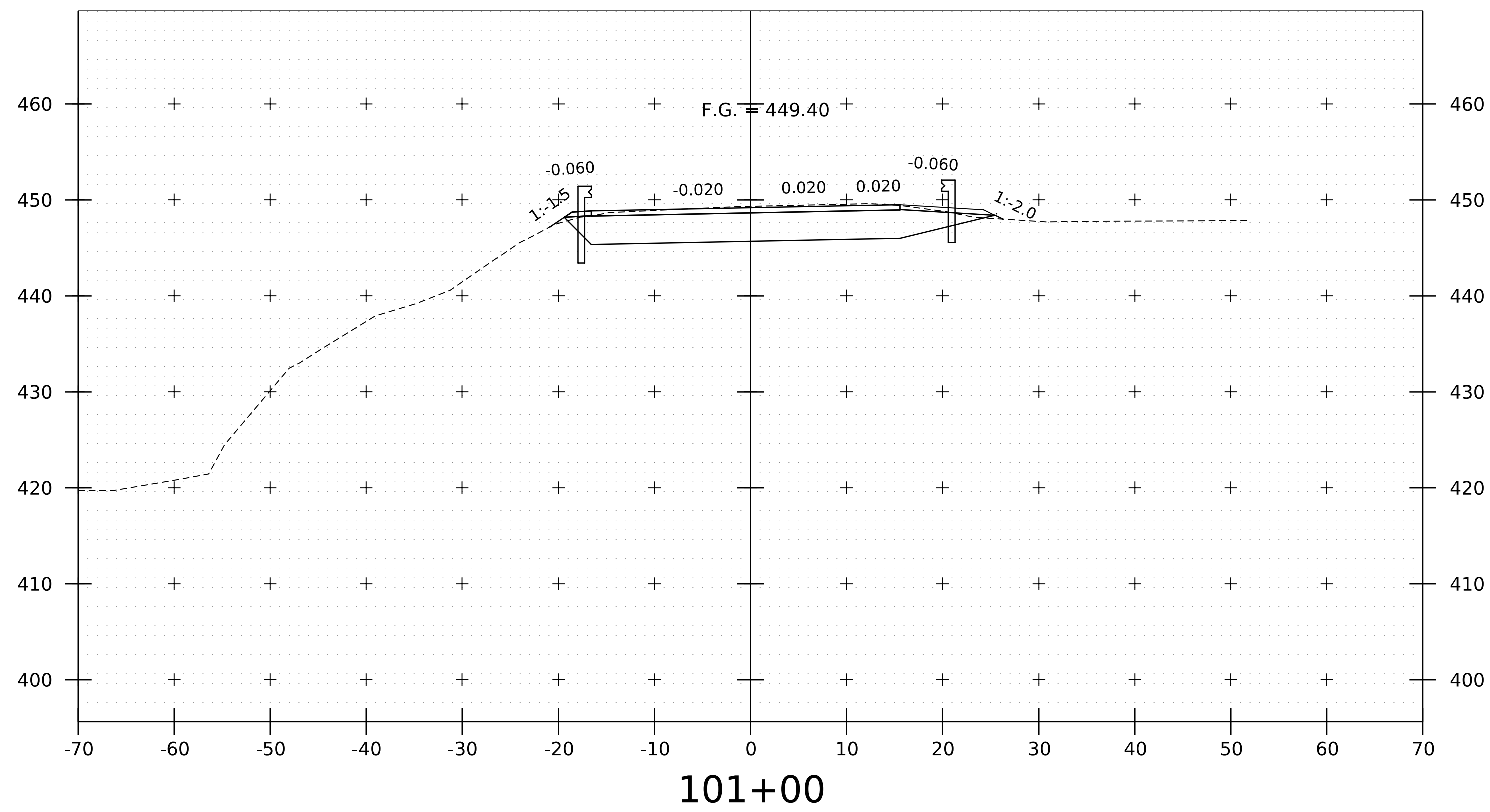
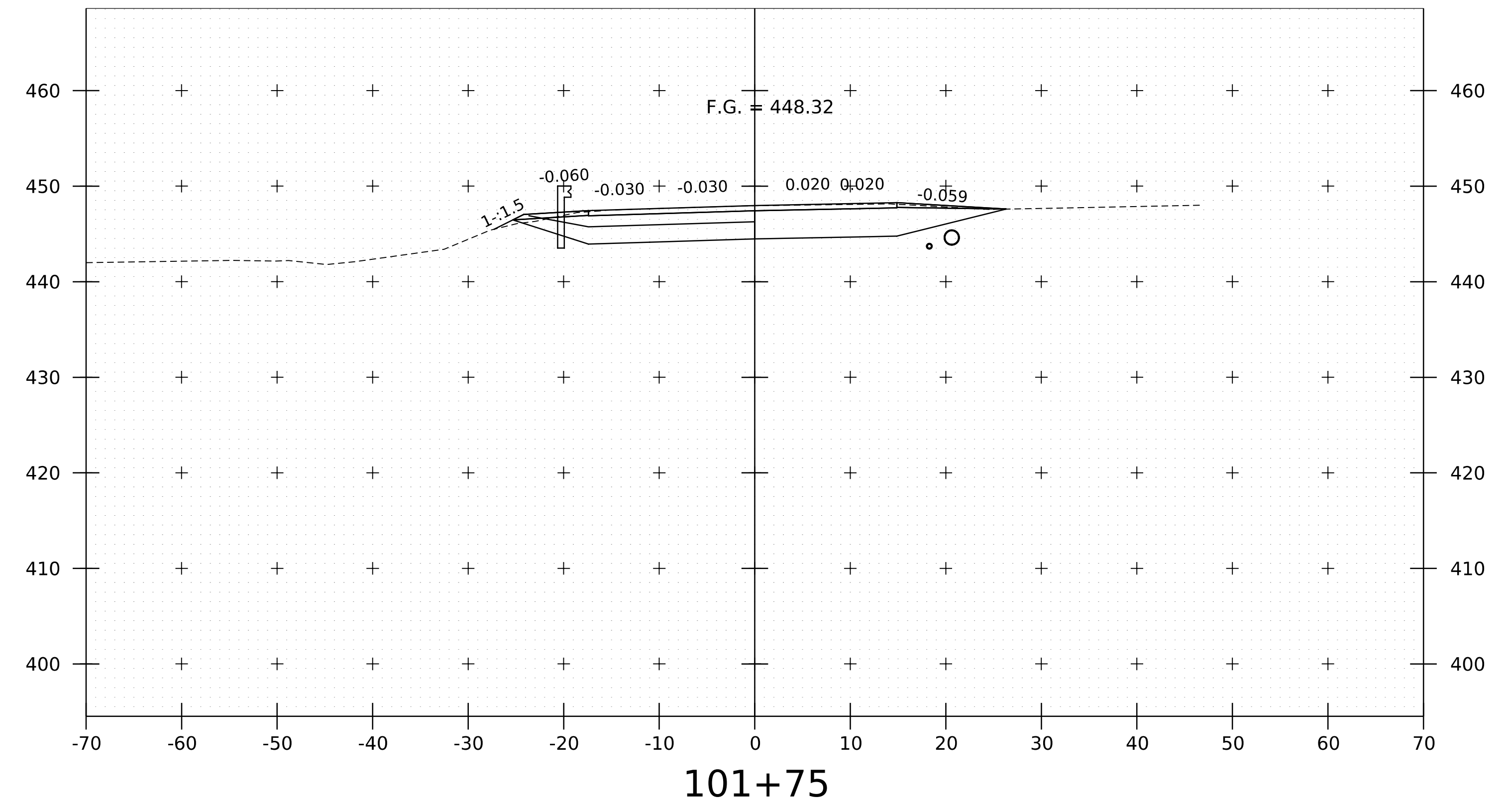
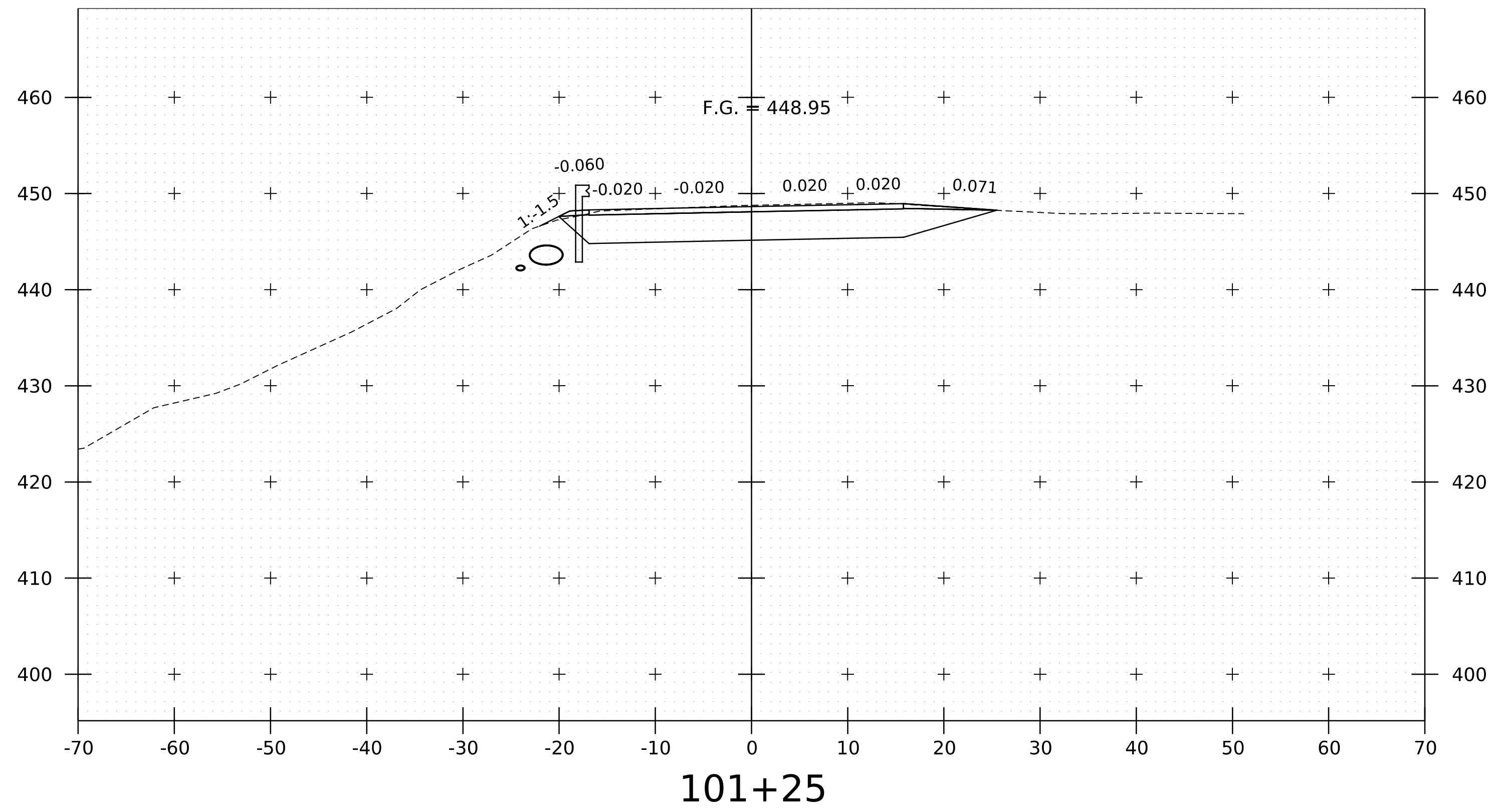


99+50

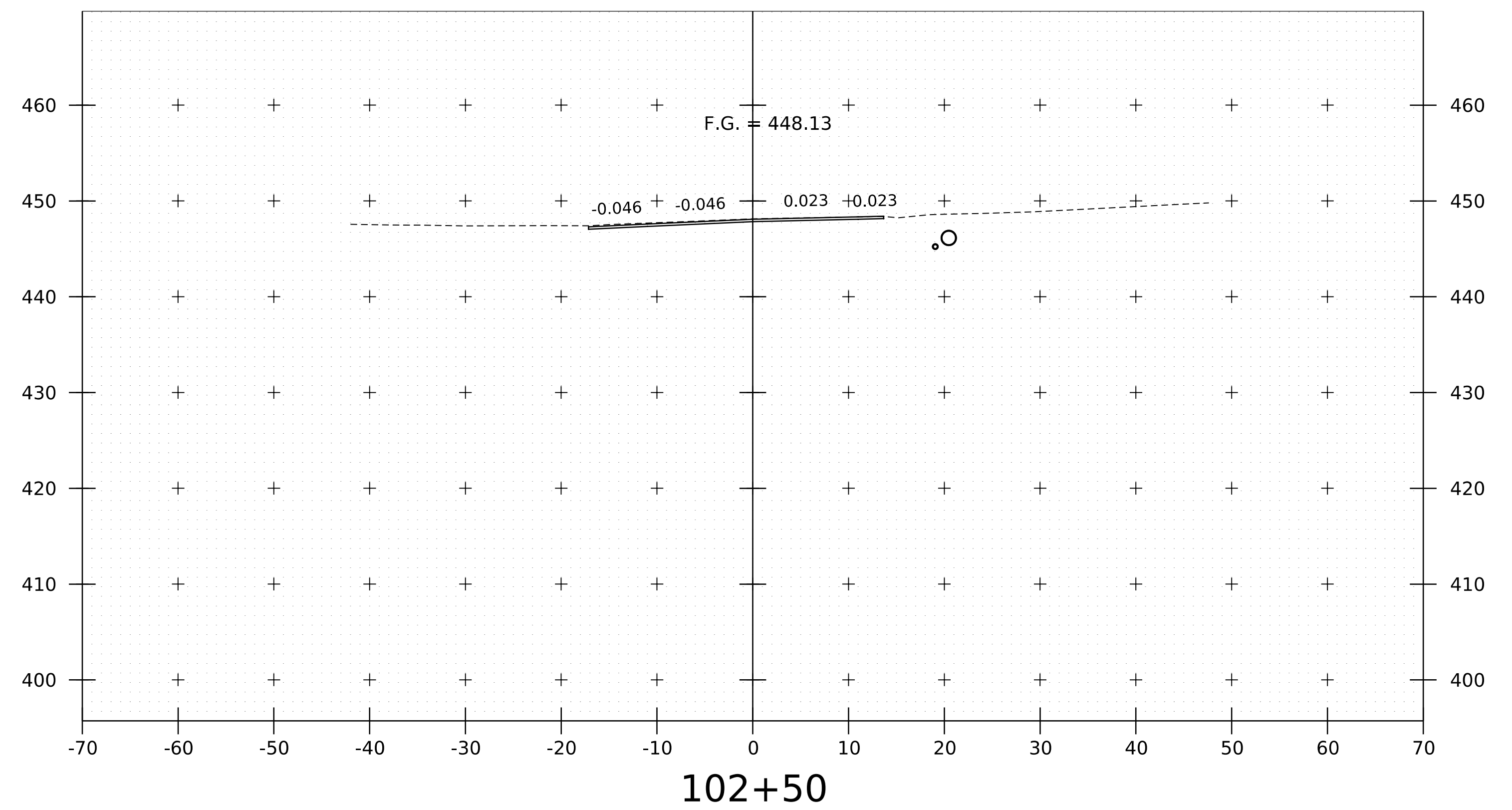
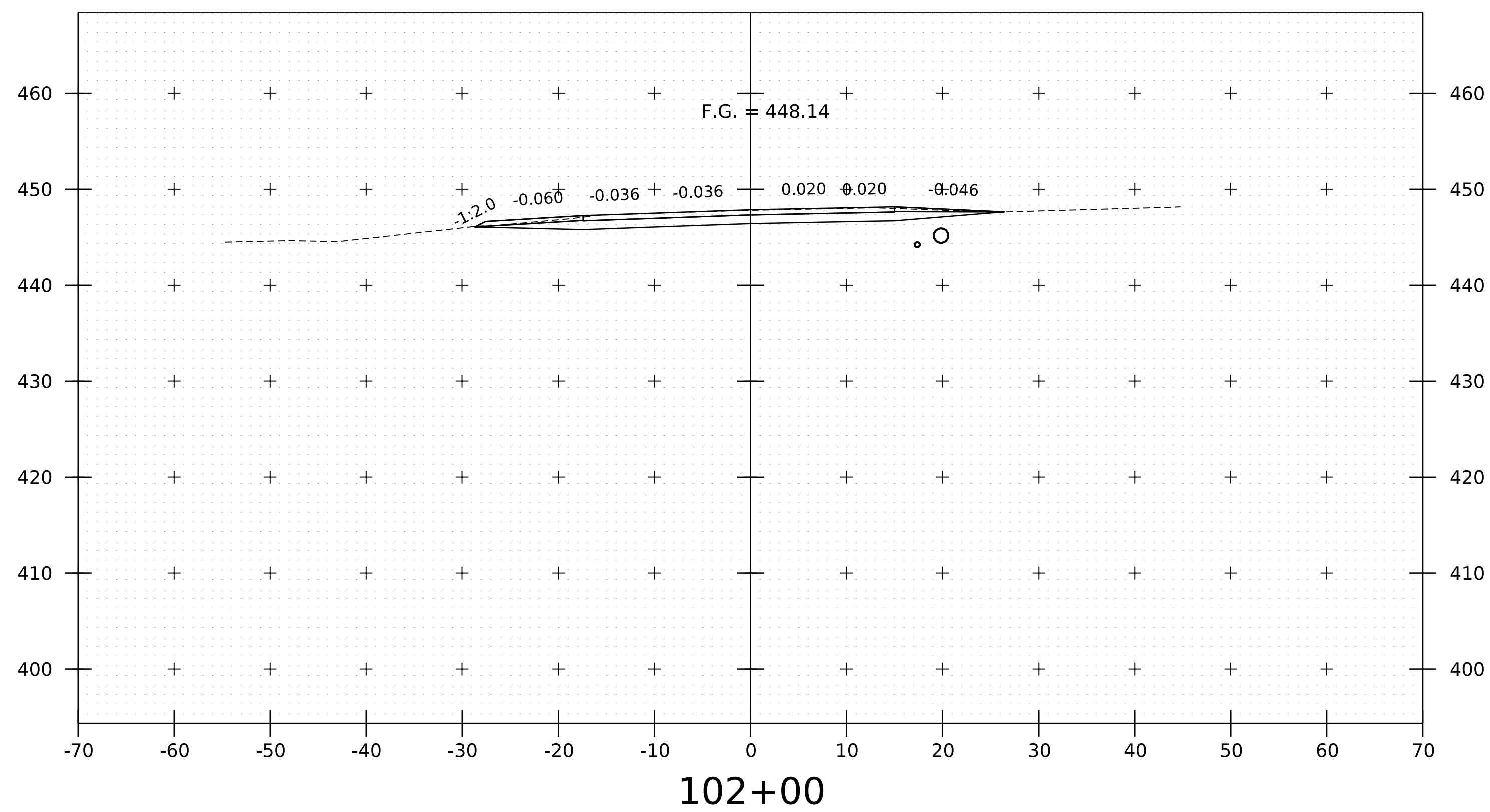
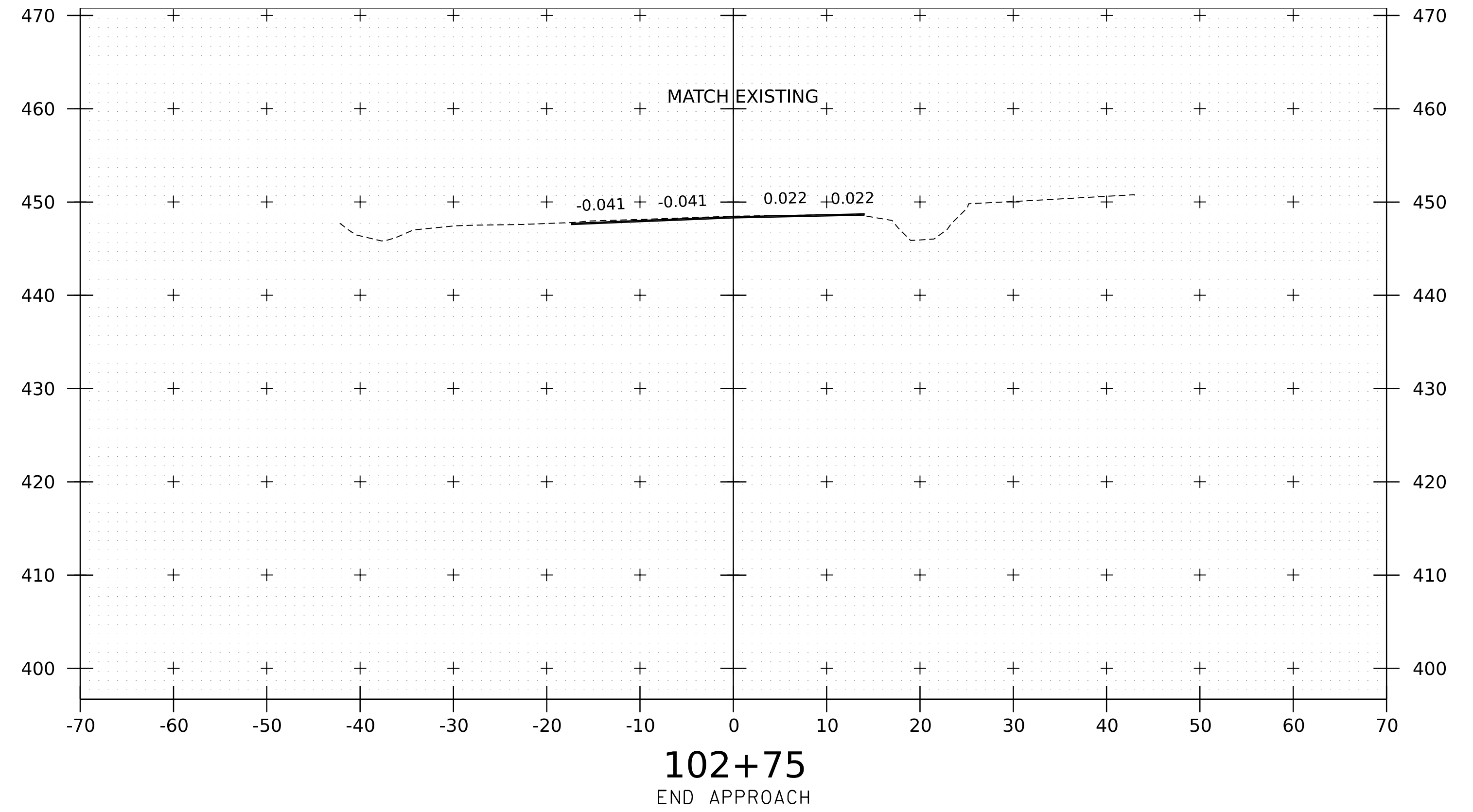
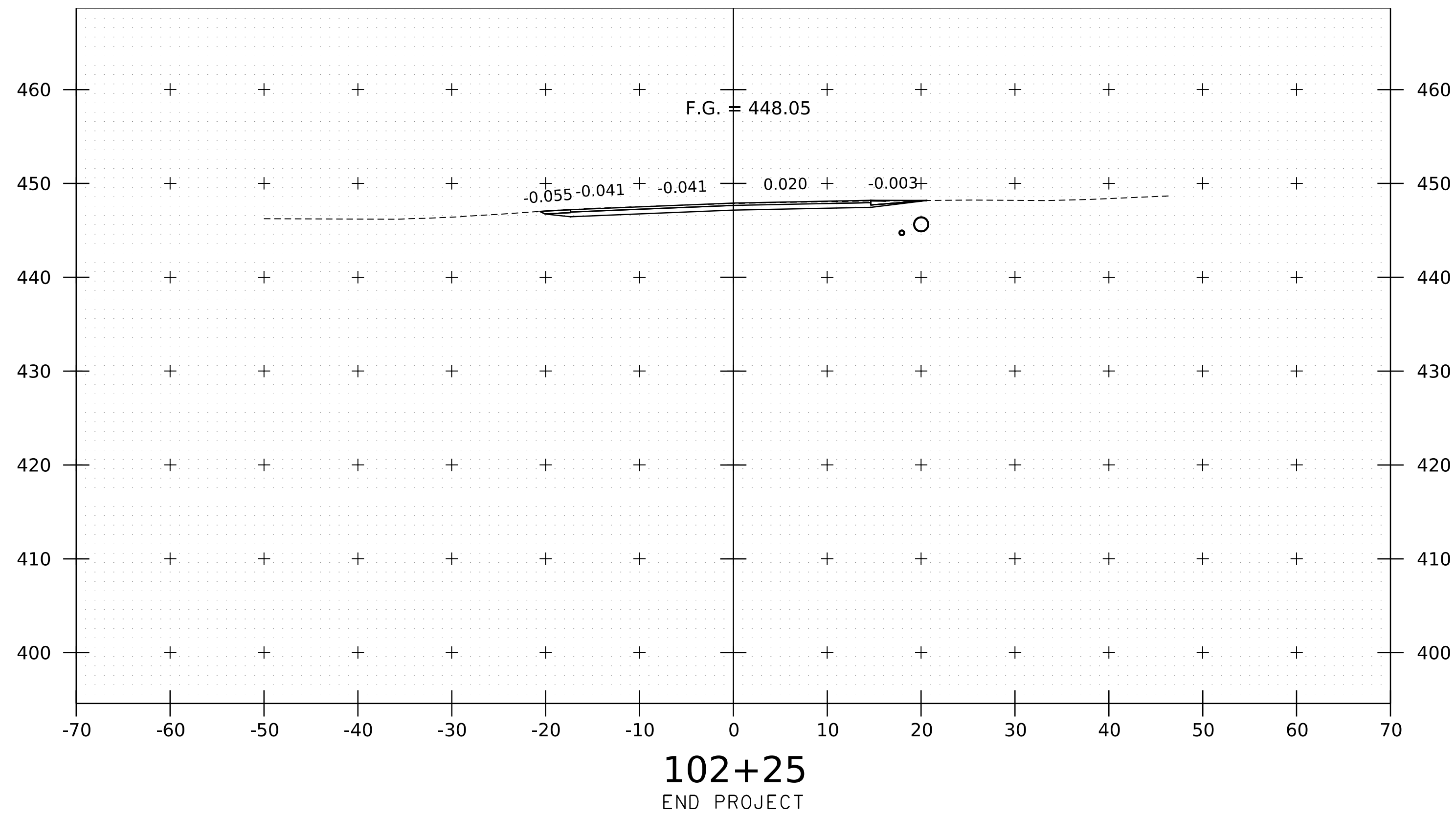
PROJECT NAME:	FAIRFIELD	PLOT DATE:	24-JUN-2022
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	J. PAQUETTE
FILE NAME:	si9b2i8VT36_XS.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	R. YOUNG	SHEET	16 OF 19
DESIGNED BY:	J. PAQUETTE		
ROADWAY CROSS SECTIONS 2			



PROJECT NAME:	FAIRFIELD	PLOT DATE:	24-JUN-2022
PROJECT NUMBER:	STP DECK(5I)	DRAWN BY:	J. PAQUETTE
FILE NAME:	sl9b2l8VT36_XS.dgn	DESIGNED BY:	J. PAQUETTE
PROJECT LEADER:	R. YOUNG	CHECKED BY:	D. PETERSON
ROADWAY CROSS SECTIONS 3		SHEET	17 OF 19



PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: s19b218VT36_XS.dgn	PLOT DATE: 24-JUN-2022
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS 4	SHEET 18 OF 19



PROJECT NAME: FAIRFIELD	
PROJECT NUMBER: STP DECK(5I)	
FILE NAME: si9b2i8vt36_xs.dgn	PLOT DATE: 24-JUN-2022
PROJECT LEADER: R. YOUNG	DRAWN BY: J. PAQUETTE
DESIGNED BY: J. PAQUETTE	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS 5	SHEET 19 OF 19

**Vermont Agency of Transportation**

FAIRFIELD STP DECK(51)

Estimate PRELIMINARY - Engineer's Estimate

Phase: PRELIMINARY	Designed By: Joshua Paquette
Estimate Date: 24 June, 2022	Reviewed By: Joshua Paquette
Specification: Standard Specifications for Construction	Approved By: David Peterson
Region: NORTHWEST	Work Type: BRIDGE CONSTRUCTION
Town: FAIRFIELD	Highway Type: MAJOR COLLECTOR
Advertising Season: CONSTRUCTION SEASON	Urban/Rural: RURAL
Description: Replacement of existing concrete bridge deck with related roadway work.	

Category

**1011 - ROADWAY**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS		1.00	LS	\$7,000.000	\$7,000.00
203.15	COMMON EXCAVATION		1,084.00	CY	\$19.987	\$21,665.91
204.20	TRENCH EXCAVATION OF EARTH		176.00	CY	\$26.464	\$4,657.66
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)		1.00	CY	\$75.000	\$75.00
204.30	GRANULAR BACKFILL FOR STRUCTURES		175.00	CY	\$50.842	\$8,897.35
210.10	COARSE-MILLING, BITUMINOUS PAVEMENT		340.00	SY	\$15.772	\$5,362.48
301.15	SUBBASE OF GRAVEL		904.00	CY	\$38.908	\$35,172.83
401.10	AGGREGATE SURFACE COURSE		30.00	CY	\$59.276	\$1,778.28
402.12	AGGREGATE SHOULDERS		31.00	TON	\$56.143	\$1,740.43
404.65	EMULSIFIED ASPHALT		8.00	CWT	\$95.771	\$766.17
601.99	RE-LAYING PIPE CULVERTS	(18")	102.00	LF	\$52.255	\$5,330.01
604.415	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II		2.00	EACH	\$1,546.321	\$3,092.64
605.10	UNDERDRAIN PIPE, 6 INCHES		102.00	LF	\$30.788	\$3,140.38
605.20	UNDERDRAIN CARRIER PIPE, 6 INCHES		60.00	LF	\$27.180	\$1,630.80
609.10	DUST CONTROL WITH WATER		64.00	MGAL	\$43.068	\$2,756.35
613.11	STONE FILL, TYPE II		28.00	CY	\$71.301	\$1,996.43
613.12	STONE FILL, TYPE III		84.00	CY	\$67.500	\$5,670.00
617.10	REMOVE AND RESET MAILBOX, SINGLE SUPPORT		1.00	EACH	\$254.626	\$254.63
621.21	HD STEEL BEAM GUARDRAIL, GALVANIZED		57.00	LF	\$37.372	\$2,130.20
621.215	HD STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS		101.00	LF	\$55.000	\$5,555.00
621.50	MANUFACTURED TERMINAL SECTION, FLARED		3.00	EACH	\$2,661.099	\$7,983.30
621.737	GUARDRAIL APPROACH SECTION, GALV HD STEEL BEAM		4.00	EACH	\$2,480.892	\$9,923.57

**Vermont Agency of Transportation**

FAIRFIELD STP DECK(51)

Estimate PRELIMINARY - Engineer's Estimate

621.80	REMOVAL AND DISPOSAL OF GUARDRAIL		250.00	LF	\$3.194	\$798.50	
630.10	UNIFORMED TRAFFIC OFFICERS		50.00	HR	\$78.633	\$3,931.65	
630.15	FLAGGERS		100.00	HR	\$39.247	\$3,924.70	
633.10	CPM SCHEDULE		8.00	EACH	\$450.899	\$3,607.19	
635.11	MOBILIZATION/DEMOBILIZATION		1.00	LS	\$89,332.057	\$89,332.06	
641.11	TRAFFIC CONTROL, ALL-INCLUSIVE		1.00	LS	\$67,000.000	\$67,000.00	
646.201	4 INCH WHITE LINE, WATERBORNE PAINT		754.00	LF	\$1.300	\$980.20	
646.2111	4 INCH YELLOW LINE, WATERBORNE PAINT		930.00	LF	\$1.317	\$1,224.81	
649.11	GEOTEXTILE FOR ROADBED SEPARATOR		538.00	SY	\$2.404	\$1,293.35	
649.31	GEOTEXTILE UNDER STONE FILL		148.00	SY	\$3.922	\$580.46	
649.41	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING		133.00	SY	\$2.497	\$332.10	
653.55	PROJECT DEMARCATION FENCE		537.00	LF	\$1.496	\$803.35	
900.615	SPECIAL PROVISION	(INCENTIVE/DISINCENTIV E)	39,139.03	DL	\$1.000	\$39,139.03	
900.650	SPECIAL PROVISION	(MATERIAL PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	1.00	LU	\$1.000	\$1.00	
900.650	SPECIAL PROVISION	(MIXTURE PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	1.00	LU	\$1.000	\$1.00	
900.680	SPECIAL PROVISION	(BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	430.00	TON	\$200.000	\$86,000.00	
						Category total:	\$435,528.82

Category

**1051 - EROSION CONTROL**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount	
651.15	SEED		10.00	LB	\$15.748	\$157.48	
651.18	FERTILIZER		50.00	LB	\$5.856	\$292.80	
651.20	AGRICULTURAL LIMESTONE		0.25	TON	\$821.042	\$205.26	
651.35	TOPSOIL		50.00	CY	\$61.833	\$3,091.65	
653.01	EPSC PLAN		1.00	LS	\$4,000.000	\$4,000.00	
653.02	MONITORING EPSC PLAN		40.00	HR	\$35.636	\$1,425.44	
653.03	MAINTENANCE OF EPSC PLAN (N.A.B.I.)		1.00	LU	\$3,053.874	\$3,053.87	
653.50	BARRIER FENCE		153.00	LF	\$3.340	\$511.02	
						Category total:	\$12,737.53

Category

**1211 - BRIDGE NO. 1**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
-------------	-------------	--------------------------	----------	------	------------	--------

**Vermont Agency of Transportation**

FAIRFIELD STP DECK(51)

Estimate PRELIMINARY - Engineer's Estimate

204.20	TRENCH EXCAVATION OF EARTH		30.00	CY	\$26.464	\$793.92
204.25	STRUCTURE EXCAVATION		30.00	CY	\$43.647	\$1,309.41
507.11	REINFORCING STEEL, LEVEL I	(EPOXY COATED)	20,252.00	LB	\$2.000	\$40,504.00
507.16	DRILLING AND GROUTING DOWELS		64.00	LF	\$43.027	\$2,753.73
508.15	SHEAR CONNECTORS	(2036 - 7/8" X 7")	1.00	LS	\$12,000.000	\$12,000.00
514.10	WATER REPELLENT, SILANE		33.00	GAL	\$83.223	\$2,746.36
516.10	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG		76.00	LF	\$144.366	\$10,971.82
525.45	BRIDGE RAILING, GALVANIZED STEEL TUBING/CONCRETE COMBINATION		180.00	LF	\$455.855	\$82,053.90
529.20	PARTIAL REMOVAL OF STRUCTURE		1.00	EACH	\$65,000.000	\$65,000.00
900.608	SPECIAL PROVISION	(PERFORMANCE BASED CONCRETE, CLASS PCD	82.00	CY	\$1,800.000	\$147,600.00
900.670	SPECIAL PROVISION	(CONCRETE BRIDGE DECK SURFACE PREPARATION)	3,036.00	SF	\$10.000	\$30,360.00
900.670	SPECIAL PROVISION	(PRECAST, PRESTRESSED CONCRETE DECK PANEL) (FPQ)	2,134.00	SF	\$55.000	\$117,370.00
					Category total:	\$513,463.13

Category  
**1999 - FULL C.E. ITEMS**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
631.10	FIELD OFFICE, ENGINEERS		1.00	LS	\$16,388.948	\$16,388.95
631.16	TESTING EQUIPMENT, CONCRETE		1.00	LS	\$817.302	\$817.30
631.17	TESTING EQUIPMENT, BITUMINOUS		1.00	LS	\$705.851	\$705.85
631.26	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)		3,000.00	DL	\$1.000	\$3,000.00
					Category total:	\$20,912.10

**Grand Total:** \$982,641.58

## TMP CHECKLIST

**Purpose:** To make a preliminary determination of whether the following issues are present or should be considered during project development through a more detailed TMP.

**Project Name and Number/PIN:** Fairfield STP Deck (51) – 19B219

**Initial Project Significance Level** (as determined in Table 4): _____

### Project Manager during Project Definition:

Name: Rob Young Date: 5/5/2022

### Modified or Approved by (Project Manager at Preliminary Design for Significant Projects):

Name: _____ Date: _____

### Modified or Approved by (Project Manager at PS&E for Significant Projects):

Name: _____ Date: _____

**Project Description** (Location, Activity, Anticipated Duration): Deck Replacement on VT 36 in the town of Fairfield. Single season construction project with a 28 Day bridge closure.

	Yes	No	Poss	N/A	Comments
1. Does the project require a long-term (greater than 3 days) ¹ lane or roadway/bridge closure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28 Day Closure
2. Are there any restrictions or considerations regarding construction timeframes due to traffic concerns (e.g., time of day, site specific time of year limits)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Closure to occur when school is not in session to avoid disrupting bus routes.
3. Can typical applications for traffic control be used? Are there any limitations to when typical applications can be used (time of year, times, days)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Is there a sidewalk, pedestrian/bicycle lane, path, trail, or access that needs to be maintained during construction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Is a speed reduction proposed (consistent with state guidance)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No speed reduction anticipated for closure.
6. Will temporary roadways or additional width be needed on culverts, bridges, or shoulders to maintain traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Detour route adequate for additional traffic.
7. Will construction impact access to businesses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nearby businesses will have access at all times.



	Yes	No	Poss	N/A	Comments
8. Are there other projects (utility, district maintenance, construction, municipal) in the area that should be coordinated or avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Will/Can the traffic be reasonably detoured? If no or N/A, proceed to #10. If yes or possibly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a. Is the detour route roadway type equivalent to closed roadway?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Is the local alternate detour route in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Will the detour route have a detrimental impact on emergency vehicles, school buses, or other sensitive traffic?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The local detour is adequate for emergency vehicles but trucks will need to navigate the 42 mile detour
d. Are there load limit restrictions on the detour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not on main detour, local detour will be subject to local road limits
e. Are there bridge/culvert width or height restrictions on the detour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. Are modifications needed at intersections on detour/alternate routes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Will traffic signal timing need to be adjusted for the project (with or without a detour)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Are there truck facilities or routes that would be impacted by the project or by a detour (turning radii, weight restrictions, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Are there special events or traffic generators (schools and bus routes, large employers, hospitals) that may be affected by the project and/or detour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Will the emergency vehicle routing, mail delivery, school bus routes, or trash services be interrupted by the project (with or without a detour)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. Are there specific stakeholders to engage regarding the work zone impacts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nearby property owners
15. Does the project occur within a high crash location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16. Are there other maintenance of traffic issues to consider? Specify.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

1. MUTCD definition of long-term work is occupying a location more than 3 days.

**Additional Narrative for Projects with issues identified above:**

RISK REGISTER				Project Name: Fairfield STP Deck (51)			19b218	Project Manager	Rob Young			
Risk Identification							Risk Rating		Risk Response			
Status	ID #	Type	Category	Title	Risk Statement	Current status/assumptions	Priority Rating	Rationale for Rating	Strategy	Response Actions	Risk Owner	Updated
<b>Constructability Risks</b>												
Active	1	Threat	Construction	Existing Substructure Condition	The condition of the concrete in the substructures are good but issues could be uncovered during construction which would lead to increase repair costs.		Low		Share	Condition will be evaluated and concrete removal will be determined by the RE if substructures are worse than anticipated. Appropriate concrete items will be included in the contract	Vtrans/Contractor	5/5/2022
Active	2	Threat	Construction	Condition of Existing girders	If the amount of deflection that comes out of the girders once the deck is removed is not what was anticipated, grade changes may need to be made to accommodate haunches.		Low		Avoid	Design team will analyze a range of possible deflections of the existing girders to confirm our design grades will work in almost all situations.	Design	5/5/2022
Active	3	Threat	ROW	ROW needs to be aquired	If ROW agreements are not in place to advertise the project on time, the project could be delayed.		Low		Mitigate	Early coordination between ROW, property owners and design may alleviate any concerns for property owners.	PM	5/5/2022
Active	4	Threat	Construction	Reopening Bridge Late	If the bridge is not opened on time, the public will be inconvenienced by the long detour for more time.		Low		Avoid	Contact agreement will include deadlines and will be advertised early to ensure contractor can aquire all materials	PM	5/5/2022