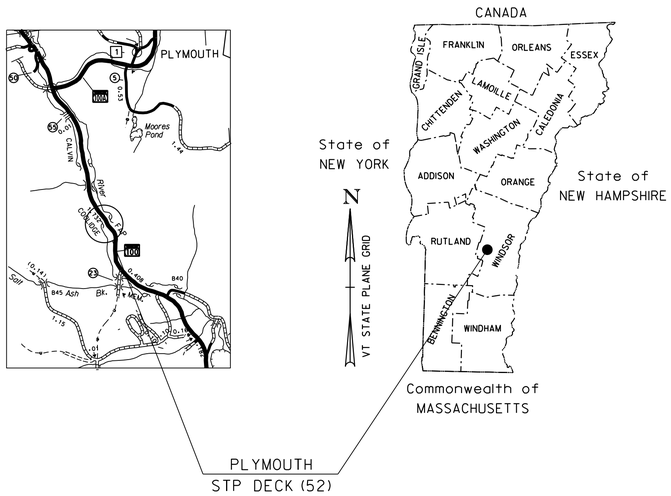
STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

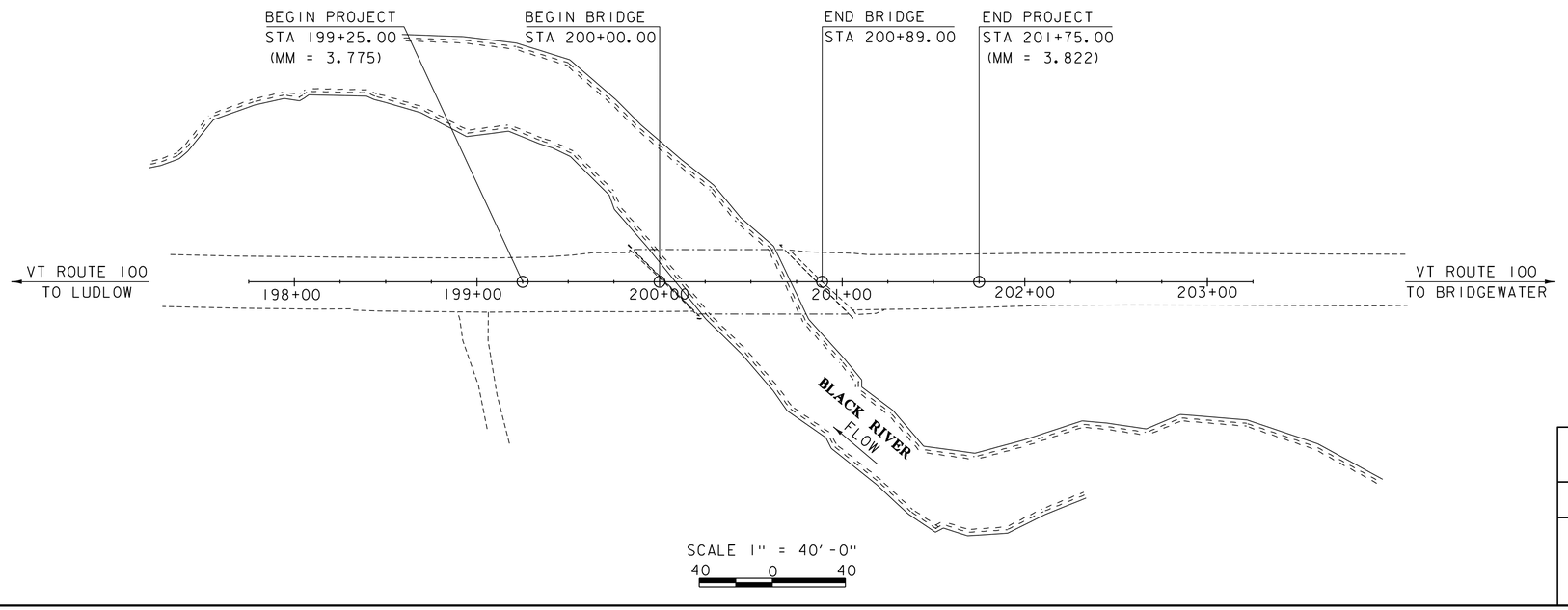
TOWN OF PLYMOUTH
COUNTY OF WINDSOR

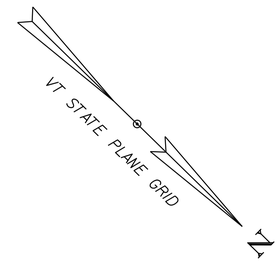
ROUTE NO : VT RTE 100: MINOR ARTERIAL BRIDGE NO : 107

PROJECT LOCATION: LOCATED ON VT100 IN THE TOWN OF PLYMOUTH APPROXIMATELY 1.5 MILES SOUTH OF THE JUNCTION WITH VT ROUTE 100A

PROJECT DESCRIPTION: CONSTRUCTION OF A NEW BRIDGE DECK ON THE EXISTING STEEL BEAMS WITH RELATED ROADWAY APPROACH WORK.

LENGTH OF STRUCTURE:	89.00 FEET
LENGTH OF ROADWAY:	161.00 FEET
LENGTH OF PROJECT:	250.00 FEET





CONTRACT
C03116

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 : 01/10/2020

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83 (2011)

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED Erin Sisson, P.E. DATE Dec. 13, 2022

PROJECT MANAGER : J.B. McCARTHY, P.E.

PROJECT NAME : PLYMOUTH
PROJECT NUMBER : STP DECK (52)

SHEET 1 OF 29 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version 2021.05.19.09

LRFD

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NO HYDRAULIC REPORT

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DETAIL SHEETS

HSD-400.01	SAFETY EDGE DETAILS	1/5/2018

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN ONE-WAY TRAFFIC ON THE EXISTING STRUCTURE.
2. INSTALL AND MAINTAIN TRAFFIC SIGNALS.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_P:	0.0 INCH
3. DESIGN SPAN	L:	87.00 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'_{ci}:	- - -
8. (SPEC. PROV.) PERFORMANCE-BASED CONCRETE, CLASS PCD	f'_c:	4.0 KSI
9. (SPEC. PROV.) PERFORMANCE-BASED CONCRETE, CLASS PCS	f'_c:	3.5 KSI
10. (SPEC. PROV.) 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_{30}:	- - -
21. MINIMUM GROUND SNOW LOAD	p_g:	- - -
22. SEISMIC DATA — PGA: - - -	S_S:	- - -
	S_1:	- - -
23.		
24.		- - -
25.		- - -
26.		- - -

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	2.83	1.33					
POSTING							
OPERATING	3.69	1.72	2.72	1.74	2.57	2.29	2.38
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2024	1500	240	56	9.1	100
2044	1600	260	56	13.9	170

20 year ESAL for flexible pavement from 2024 to 2044 : 542000

40 year ESAL for flexible pavement from 2024 to 2064 : 1238000

Design Speed : 50 mph

AS BUILT "REBAR" DETAIL

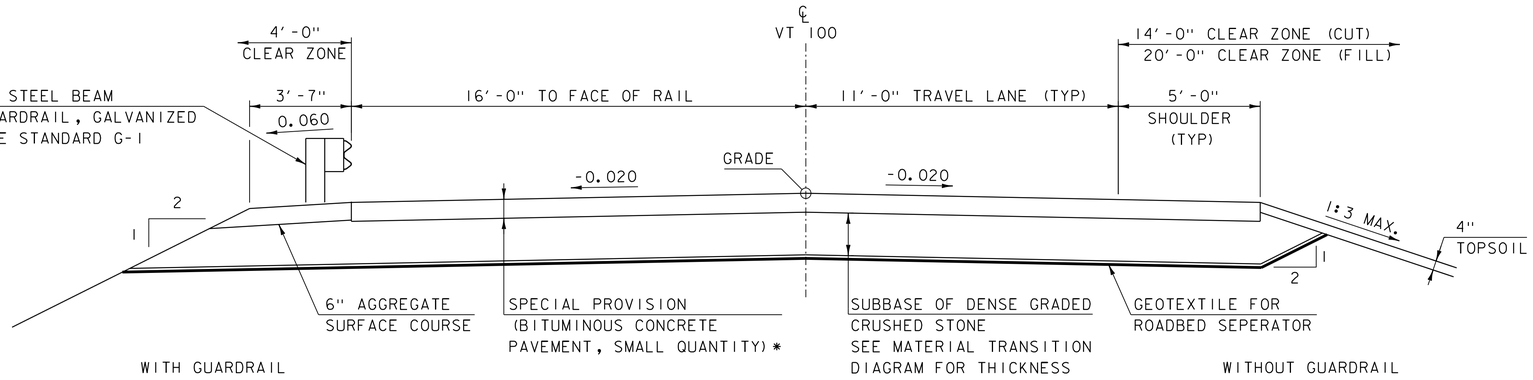
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

PROJECT NAME: **PLYMOUTH**

PROJECT NUMBER: **STP DECK(52)**

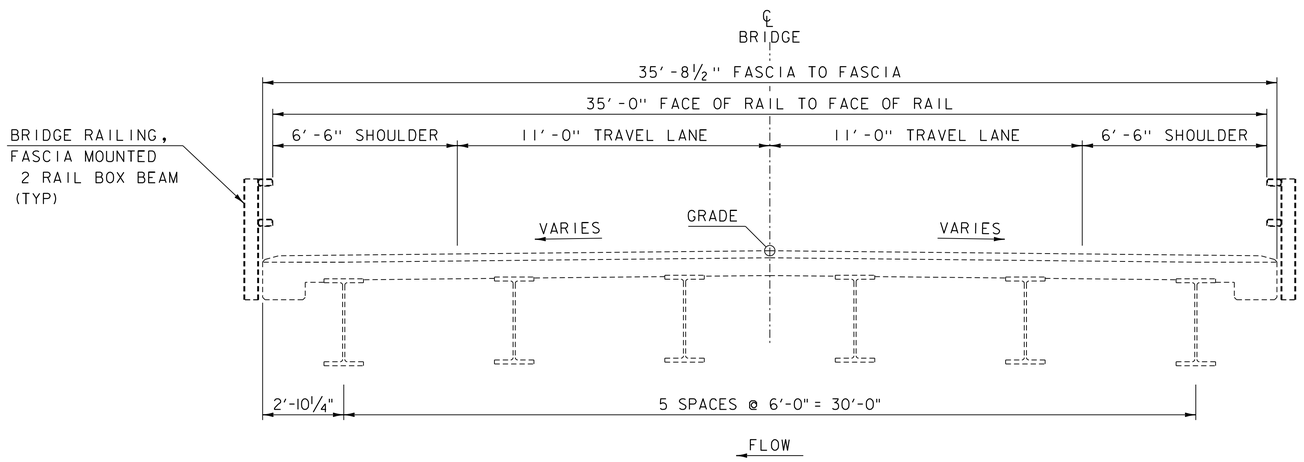
FILE NAME: **s18b007pi.dgn**
PROJECT LEADER: **J. B. McCARTHY**
DESIGNED BY: **R. PELLETT**
PRELIMINARY INFORMATION SHEET

PLOT DATE: 11/30/2022
DRAWN BY: **R. PELLETT**
CHECKED BY: **F. BARROWS**



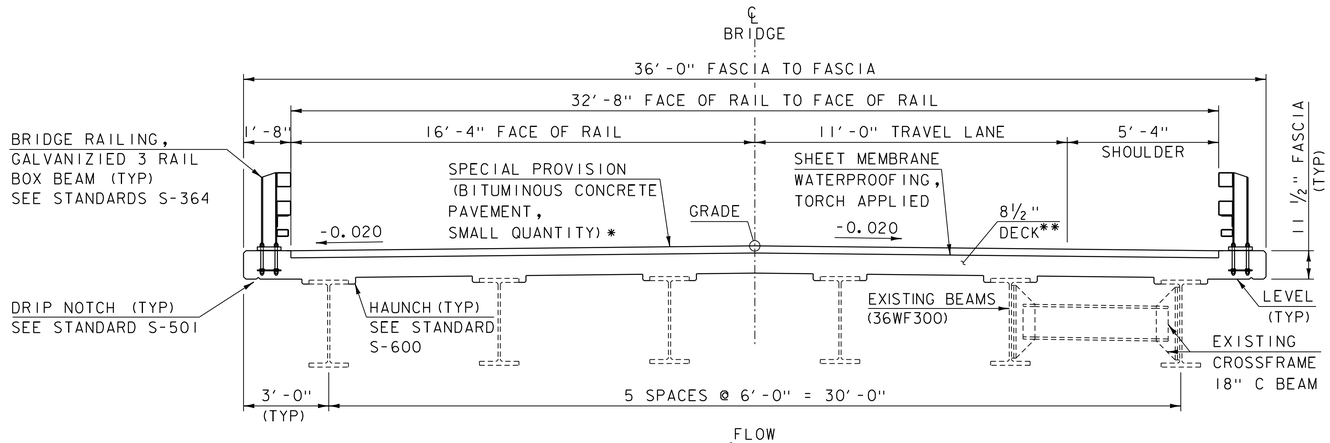
PROPOSED VT ROUTE 100 TYPICAL SECTION

SCALE 3/8" = 1'-0"



EXISTING BRIDGE TYPICAL SECTION

SCALE 3/8" = 1'-0"



PROPOSED BRIDGE TYPICAL SECTION

SCALE 3/8" = 1'-0"

PAVEMENT SPECIFICATIONS

DESIGN LANE/DESIGN LIFE ESALS	303,520
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	65

EMULSION SHALL BE APPLIED PER THE APPLICATION RATES IN TABLE 406.12A OF THE STARDARD SPECIFICATIONS.

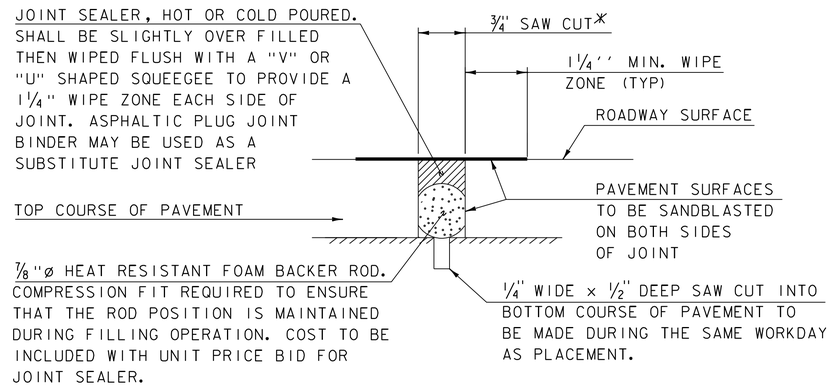
MATERIAL TOLERANCES
(IF USED ON PROJECT)

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

* BITUMINOUS CONCRETE PAVEMENT (ROADWAY)
2 - 1½" LIFTS TYPE IVB
1 - 3½" LIFT TYPE IIS

BITUMINOUS CONCRETE PAVEMENT (DECK)
2 - 1½" LIFTS TYPE IVB

** SPECIAL PROVISION
(PERFORMANCE-BASED CONCRETE, CLASS PCD)



SAWED PAVEMENT JOINT DETAIL

(NOT TO SCALE)

* JOINT IS TO BE LOCATED ACCURATELY BY STRING LINING, OR OTHER MEANS, PRIOR TO PAVING, SO THAT THE SAW CUTS WILL BE MADE DIRECTLY OVER THE END OF CONCRETE DECK. JOINT SHALL BE CUT DRY IN A SINGLE PASS AND BE SEALED WITHIN 24 HOURS AND PRIOR TO EXPOSURE TO TRAFFIC. JOINT SHALL BE CLEANED PRIOR TO APPLYING THE JOINT SEALER.

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: s18b007typical.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: F. BARROWS
TYPICAL SECTIONS

PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 3 OF 29

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION, DATED 2017, AND ITS LATEST REVISIONS.

2. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE

3. ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE" WILL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETELY REMOVE THE EXISTING DECK DOWN TO THE TOP FLANGE OF THE EXISTING BEAMS TO INCLUDE BUT NOT LIMITED TO THE CURBS, BRIDGE RAILING, SHEAR STUDS (IF ANY), WOOD FORMS, APPROACH SLABS, CURTAIN WALLS, INTERMEDIATE DIAPHRAGMS, THE PAVEMENT AND WING WALLS TO THE LIMITS SHOWN ON THE PLANS.

4. THE CONTRACTOR SHALL MAINTAIN ALL SECTIONS OF THE HIGHWAY UNDER CONSTRUCTION SATISFACTORY TO THE ENGINEER TO ENSURE THE SAFETY OF THE TRAVELING PUBLIC. PAYMENT WILL BE UNDER CONTRACT ITEM 527.10 "MAINTENANCE OF STRUCTURES AND APPROACHES" WHICH WILL INCLUDE BUT NOT BE LIMITED TO PERFORMING THE WORK AND FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO MAINTAIN ALL SUBSTRUCTURES, SUPERSTRUCTURES AND APPROACHES.

TRAFFIC CONTROL

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, SUBMITTAL, AND IMPLEMENTATION OF THE SITE-SPECIFIC TRAFFIC CONTROL PLAN FOR ALL STAGES OF CONSTRUCTION. THE SITE-SPECIFIC TRAFFIC CONTROL PLAN SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 641.

6. THE CONTRACTOR'S SITE-SPECIFIC TRAFFIC CONTROL PLAN SHALL MEET THE SPECIFIED DIMENSIONS HEREIN. REFERENCE PHASE 1 LAYOUT, PHASE 2 LAYOUT, AND PHASING TYPICAL SECTIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.

7. ANY REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE ENGINEER, WILL BE CONSIDERED INCIDENTAL TO ITEM 641.11 TRAFFIC CONTROL, ALL-INCLUSIVE.

8. ANY TEMPORARY MEANS OF SUPPORTING EXCAVATION NECESSARY TO MAINTAIN TRAFFIC WILL BE INCLUDED IN THE PAYMENT OF ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE". CONSTRUCTION DRAWINGS SHALL BE REQUIRED AS PER SUBSECTION 105.03.

9. ALL TEMPORARY TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). FOR ADDITIONAL SIGNING INSTRUCTIONS SEE THE T SERIES OF THE STANDARDS. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN.

10. TEMPORARY TRAFFIC BARRIER SHALL MEET THE REQUIREMENTS OF SUBSECTION 621.07. PAYMENT FOR FURNISHING, MAINTAINING, INSTALLATION, REMOVAL, AND RESETTING WILL BE CONSIDERED INCIDENTAL TO ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE."

TEMPORARY TRAFFIC SIGNALS

11. TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM" AND IN COMPLIANCE WITH THE LATEST EDITION OF THE MUTCD.

12. SIGNAL FACES SHALL CONSIST OF 12 INCH LENSES (RED, YELLOW, AND GREEN) AND BE ILLUMINATED USING LIGHT EMITTING DIODES (LEDS).

13. LUMINAIRES SHALL BE INSTALLED AT EACH OF THE APPROACHES TO ADEQUATELY LIGHT THE STOP BAR AREAS. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM"

14. ALL TEMPORARY SIGNAL EQUIPMENT AND SIGNS SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR REMOVAL INCLUDING UTILITY POLES, WIRES, ETC. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SIGNAL PHASING AND TIMING. THE CONTRACTOR SHALL SUBMIT A PHASING DIAGRAM AND TIMING SCHEDULE TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL MAKE THE SIGNALS OPERATIONAL ONLY AFTER RECEIVING APPROVAL OF BOTH THE PHASING DIAGRAM AND TIMING SCHEDULE BY THE ENGINEER. DEVELOPMENT OF THE PHASING DIAGRAM AND TIMING SCHEDULE WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM". ADDITIONAL ADJUSTMENTS TO SIGNAL TIMING OR PHASING REQUESTED BY THE ENGINEER SHALL BE COMPLETED WITHIN 48 HOURS OF THE REQUEST. PAYMENT FOR ADDITIONAL ADJUSTMENTS TO SIGNAL TIMING OR PHASING WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".

16. THE SUBMITTAL FOR ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM" SHALL BE IN CONJUNCTION WITH THE SUBMITTAL FOR ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE" AND SHALL INCLUDE AS A MINIMUM, THE SIGNAL LOCATION, TIMING, AND PHASING PLAN, VEHICLE DETECTION SYSTEM, AND EMERGENCY VEHICLE PREEMPTION SYSTEM.

EPSC

17. THIS PROJECT WILL UTILIZE THE VT DEC LOW RISK SITE HANDBOOK FOR EPSC DATED 2020. NO SITE-SPECIFIC EPSC PLAN IS INCLUDED. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A SITE-SPECIFIC EPSC PLAN, IN ACCORDANCE WITH SECTION 653 OF THE STANDARD SPECIFICATIONS, FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS, IT SHALL BE PAID FOR AS PART OF ITEM 653.03 "MAINTENANCE OF EPSC PLAN".

18. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION AND POLLUTION AS PER SECTION 105, WITH SPECIAL CONSIDERATION GIVEN TO THE PROTECTION OF THE BLACK RIVER FROM THE DISCHARGE OF RAW CONCRETE. THE CONTRACTOR WILL PERFORM THIS WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 653.01 "EPSC PLAN."

19. THE EPSC EXISTING SITE PLAN SHEET HAS BEEN INCLUDED FOR THE CONTRACTOR TO USE FOR SUBMITTALS. THE TOTAL AREA OF DISTURBANCE IS 0.19 ACRES.

STRUCTURAL STEEL

20. THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL, AND WHEN HANDLING ANY PAINT REMOVED INTENTIONALLY OR NOT. ANY REMOVED STRUCTURAL STEEL OR PAINT IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, IT'S OFFICERS AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED STRUCTURAL STEEL OR PAINT.

21. IMMEDIATELY AFTER THE EXISTING CONCRETE DECK AND SHEAR STUDS (IF ANY) HAVE BEEN REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF THE BEAMS, AT 5'-0" INTERVALS. THE ELEVATIONS SHALL THEN BE SENT TO THE PROJECT MANAGER FOR USE IN DETERMINING THE HAUNCH DEPTHS. THE CONTRACTOR SHOULD EXPECT 4 WORKING DAYS FOR VTRANS TO PREPARE THE HAUNCH DEPTH CALCULATIONS.

22. FLEMING BRACKETS OR SIMILAR FALSEWORK SHALL BE SPACED AS REQUIRED BY DESIGN BUT SHALL BE LIMITED TO A MAXIMUM SPACING OF 4 FEET. THE DESIGN OF FALSEWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND FLEMING / OVERHANG BRACKET SHALL EXTEND AT LEAST 75% OF THE WEB DEPTH.

23. THE LOCATION OF THE SHEAR CONNECTORS AND DIAPHRAGMS SHALL BE MARKED OUT BEFORE SURFACE PREPARATION BEGINS. THE CONTACT AREAS SHALL BE CLEANED TO AN EXTENT 1 INCH BEYOND THE BORDER OF EACH OF THE CONNECTED PARTS IN ACCORDANCE WITH ITEM 900.645 "SPECIAL PROVISION (REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT) (TYPE II)". THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LEAD ABATEMENT PERMITS. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 900.645 "SPECIAL PROVISION (REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT) (TYPE II)".

24. THE NEW SHEAR CONNECTORS SHALL BE SPACED AS PER PLANS. PAYMENT FOR THE NEW CONNECTORS WILL BE MADE UNDER ITEM 508.15, "SHEAR CONNECTORS (1044-7/8" X 7")".

CONCRETE

25. THE DECK, CURTAIN WALLS AND CURB CONCRETE SHALL BE SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD) AND SHALL BE PAID FOR UNDER ITEM 900.608, "PERFORMANCE-BASED CONCRETE, CLASS PCD".

26. THE APPROACH SLAB SHALL BE SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCS) AND SHALL BE PAID FOR UNDER ITEM 900.608, "PERFORMANCE-BASED CONCRETE, CLASS PCS".

27. EACH PHASE OF THE DECK IS TO BE POURED IN ONE CONTINUOUS POUR WITH A MAXIMUM DURATION OF EIGHT HOURS. IF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A TRANSVERSE CONSTRUCTION JOINT SHALL BE USED BETWEEN ADJACENT POURS. A MINIMUM 96 HOUR DELAY BETWEEN ADJACENT POURS SHALL BE OBSERVED.

28. SILANE WATER REPELLENT SHALL BE APPLIED IN ACCORDANCE WITH SECTION 514, TO ALL EXPOSED CONCRETE ON THE BRIDGE SUPERSTRUCTURE INCLUDING THE DECK, FASCIAS, AND EXISTING SUBSTRUCTURE, WITH THE EXCEPTION OF THE BOTTOM OF THE DECK BETWEEN DRIP NOTCHES AND SHALL BE PAID FOR UNDER ITEM 514.10 "WATER REPELLENT, SILANE".

29. WATERPROOFING MEMBRANE SHALL BE TORCH APPLIED IN ACCORDANCE TO SECTION 519, TO THE BRIDGE DECK AFTER THE ENTIRE DECK IS COMPLETE AND PAID FOR UNDER ITEM 519.20 "SHEET MEMBRANE WATERPROOFING, TORCH APPLIED". EXTEND MEMBRANE 3 INCHES UP THE CONCRETE RAIL BASE AND ONTO THE APPROACH SLAB 2 FEET BEYOND BEGIN BRIDGE AND END BRIDGE.

30. "REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I AND CLASS II" ARE INCLUDED TO BE USED AT THE DISCRETION OF THE ENGINEER.

31. CORK BETWEEN THE ABUTMENT CHEEK WALL AND DECK FASCIA SHALL BE INCLUDED IN THE ADJACENT CONCRETE ITEM.

32. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH X 1 INCH.

33. ALL REINFORCING SHALL BE LEVEL II, IN ACCORDANCE WITH SECTION 507, AND PAID FOR UNDER ITEM 507.12, "REINFORCING STEEL, LEVEL II".

34. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE:

SPACING:	+/- 1 INCH
CLEARANCE:	+/- 1/4 INCH

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)

FILE NAME: sl8b007notes.dgn		PLOT DATE:	12/12/2022
PROJECT LEADER:	J.B. McCARTHY	DRAWN BY:	R. PELLETT
DESIGNED BY:	K. LIHIC	CHECKED BY:	F. BARROWS
PROJECT NOTES		SHEET	4 OF 29

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

1011 - ROADWAY	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	TOTALS GRAND TOTAL	TOTALS FINAL	UNIT	DESCRIPTIONS ITEMS	ITEM NUMBER	ROUND
1				1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	
590				590		CY	COMMON EXCAVATION	203.15	
1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
330				330		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	
520				520		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	
45				45		CY	AGGREGATE SURFACE COURSE	401.10	
12				12		CWT	EMULSIFIED ASPHALT	404.65	
10				10		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38	
1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	
		25652		25652		LB	REINFORCING STEEL, LEVEL II	507.12	
		36		36		LF	DRILLING AND GROUTING DOWELS	507.16	
		1		1		LS	SHEAR CONNECTORS (1044 - 7/8" X 7")	508.15	
		10		10		GAL	WATER REPELLENT, SILANE	514.10	
		80		80		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	
		357		357		SY	SHEET MEMBRANE WATERPROOFING, TORCH APPLIED	519.20	
		33		33		LF	JOINT SEALER, HOT POURED	524.11	
		178		178		LF	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	525.335	
1				1		LS	MAINTENANCE OF STRUCTURES AND APPROACHES	527.10	
		1		1		EACH	PARTIAL REMOVAL OF STRUCTURE	529.20	
		5		5		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I	580.13	
		5		5		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS II	580.14	
10				10		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	
255				255		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	
1				1		EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51	
3				3		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	
218				218		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	
100				100		HR	UNIFORMED TRAFFIC OFFICERS	630.10	
800				800		HR	FLAGGERS	630.15	
			1	1		LS	FIELD OFFICE, ENGINEERS	631.10	
			1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16	
			1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	
			1	1		LS	TESTING EQUIPMENT, GROUT	631.19	
			3000	3000		DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26	
5				5		EACH	CPM SCHEDULE	633.10	
1				1		LS	MOBILIZATION/DEMOBILIZATION	635.11	
1				1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11	
2				2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	
700				700		LF	4 INCH WHITE LINE, WATERBORNE PAINT	646.201	
700				700		LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111	
790				790		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		EARTHWORKS SUMMARY
		FILL AVAILABLE
590	CY	EARTH EXCAVATION (590x1.0)
0	CY	CHANNEL EXCAVATION (5x0.3)
0	CY	STRUCTURE/ COFFERDAM EXCAVATION (0x0.3)
0	CY	ROUND
590	CY	FILL AVAILABLE
		FILL REQUIRED
0	CY	FACTORED FILL (0x1.15)
0	CY	ROUND
0	CY	FILL REQUIRED
590	CY	TOTAL WASTE MATERIAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
98	TONS	TYPE IIS - BASE COURSE
94	TONS	TYPE IVB - WEARING COURSE
108	TONS	TYPE IVB - WEARING COURSE
300	TONS	TOTAL

N.A.B.I. = NOT A BID ITEM

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: sl8b0070S.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: K. LIHIC
QUANTITY SHEET I

PLOT DATE: 12/12/2022
DRAWN BY: K. LIHIC
CHECKED BY: F. BARROWS
SHEET 5 OF 29

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES				TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
	10			10		LB	SEED	651.15				N.A.B.I. = NOT A BID ITEM
	25			25		LB	FERTILIZER	651.18				
	0.25			0.25		TON	AGRICULTURAL LIMESTONE	651.20				
	10			10		CY	TOPSOIL	651.35				
	1			1		LS	EPSC PLAN	653.01				
	40			40		HR	MONITORING EPSC PLAN	653.02				
	1			1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03				
	0.25			0.25		TON	HAY MULCH	653.10				
	30			30		CY	STABILIZED CONSTRUCTION ENTRANCE	653.35				
	550			550		LF	SILT FENCE, TYPE I	653.475				
	525			525		LF	BARRIER FENCE	653.50				
1.26				1.26		SF	TRAFFIC SIGN, TYPE A	675.20				
20				20		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341				
3				3		EACH	REMOVING SIGNS	675.50				
4				4		EACH	DELINEATOR WITH STEEL POST	676.10				
1				1		EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM	678.40				
		110		110		CY	SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCD)	900.608				
		44		44		CY	SPECIAL PROVISION (PERFORMANCE-BASED CONCRETE, CLASS PCS)	900.608				
4				4		EACH	SPECIAL PROVISION (GUARDRAIL THRIE BEAM APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM)	900.620				
		1		1		LS	SPECIAL PROVISION (REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT) (TYPE II)	900.645				
1				1		LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	900.650				
1				1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT)(N.A.B.I.)	900.650				
300				300		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680				

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: sl8b0070S.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: K. LIHIC
QUANTITY SHEET 2

PLOT DATE: 12/12/2022
DRAWN BY: K. LIHIC
CHECKED BY: F. BARROWS
SHEET 6 OF 29

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.

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

- UTILITY (GENERIC-UNKNOWN)
- UT — TELEPHONE
- UE — ELECTRIC
- UTV — CABLE (TV)
- ELECTRIC+CABLE
- ELECTRIC+TELEPHONE
- CABLE+TELEPHONE
- ELECTRIC+CABLE+TELEPHONE
- G — GAS LINE
- W — WATER LINE
- S — SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

- UTILITY (GENERIC-UNKNOWN)
- T — TELEPHONE
- E — ELECTRIC
- CABLE (TV)
- ELECTRIC+CABLE
- ELECTRIC+TELEPHONE
- AER E&T — ELECTRIC+TELEPHONE
- CABLE+TELEPHONE
- 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
- 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

- FILTER CURTAIN
- 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

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: s18b007legend.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: F. BARROWS
CONVENTIONAL SYMBOLOGY LEGEND

PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 7 OF 29

PRIMARY CONTROL

HVCTRL #1
NORTH = 370104.4570
EAST = 1578936.5990
ELEV. = 1183.7900

TO REACH FROM THE INTERSECTION OF ROUTES 100 AND 100A IN PLYMOUTH, GO SOUTH ALONG ROUTE 100 FOR 1.1 MI (1.8 KM) TO THE SITE OF THE MARK ON THE RIGHT AT A DRIVE LEADING TO A CAMP.

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

IT IS 29.0 FT (8.8 M) WEST OF AND ABOUT 1 FT (0.3 M) LOWER THAN THE CENTERLINE OF ROUTE 100, 62.0 FT (18.9 M) WEST-NORTHWEST OF AND ACROSS THE ROAD FROM POLE NUMBER 14/4001F, 47.0 FT (14.3 M) EAST OF A 12 INCH (30 CM) HEMLOCK AND ABOUT 135 FT (41.1 M) SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF THE WING WALL FOR BRIDGE 108.

HVCTRL #2
NORTH = 368203.7550
EAST = 1580138.8870
ELEV. = 1155.2900

TO REACH FROM THE INTERSECTION OF ROUTES 100 AND 100A IN PLYMOUTH, GO SOUTH ALONG ROUTE 100 FOR 1.6 MI (2.6 KM) TO THE SITE OF THE MARK ON THE RIGHT JUST PAST BRIDGE 107 AND ACROSS FROM A WOODS ROAD.

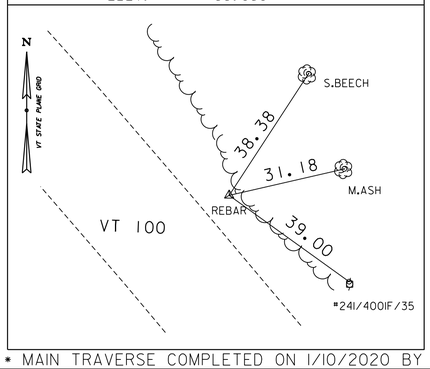
THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 2 INCHES (5 CM) BELOW GROUND SURFACE.

IT IS 23.0 FT (7.0 M) WEST-SOUTHWEST OF AND ABOUT 1 FT (0.3 M) LOWER THAN THE CENTERLINE OF ROUTE 100, 25.5 FT (7.8 M) SOUTH-SOUTHEAST OF POLE NUMBER 242/34, 28.8 FT (8.8 M) EAST-NORTHEAST OF 3 SMALL DEAD ELM TREES AND 7.0 FT (2.1 M) SOUTH OF THE END OF A STEEL GUARD RAIL.

SECONDARY CONTROL

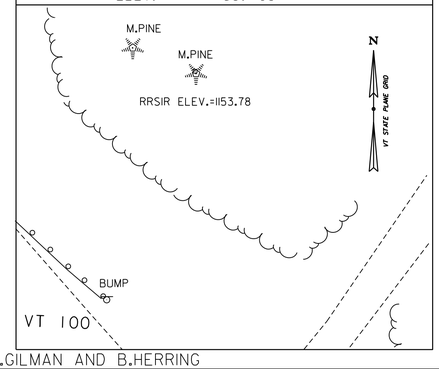
HVCTRL #3

NORTH = 368125.8056
EAST = 1580267.3608
ELEV. = 1155.858



BM #1295

NORTH = 368326.4997
EAST = 1580167.0632
ELEV. = 1153.783



NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

* MAIN TRAVERSE COMPLETED ON 1/10/2020 BY R.GILMAN AND B.HERRING

ALIGNMENT TIES

VT ROUTE 100

	STATION	NORTHING	EASTING
POB	19765.802	368110.646	1580251.344
POE	20315.802	368523.395	1579887.836

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD83 (2011)
ADJUSTMENT COMPASS

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: s18b007tie.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: VTRANS
TIE SHEET

PLOT DATE: 13-DEC-2022
DRAWN BY: B. HERRING
CHECKED BY: H. McGOWAN

RIPARIAN BUFFER

N/F
DUMAS, DANIEL

P
L

APPROX. EXISTING R.O.W.

4X4 CONCRETE
BOUNDRY MARKER
18" BG

BLACK RIVER
FLOW

1150

OSTM

ARCH

GUY
WIRE

COMB
243

N/F
PINGREE, RODNEY I.
& KATHIE L.

APPROX. EXISTING R.O.W.

RIPARIAN BUFFER

VT ROUTE 100
TO LUDLOW

199+00

200+00

201+00

202+00

VT ROUTE 100
TO BRIDGEWATER

RIPARIAN BUFFER

COMB
241
4001F
35

FIELD
DRIVE

ABANDONED

COMB
4001F
17

WOOD
FENCE

COMB
4001F
16

N/F
RUTLEDGE, KAREN
AND MICHAEL

APPROX. EXISTING R.O.W.

P
L

N/F
SMYTH, GERARD

RUMNEY
0%-3% SLOPES
FINE SANDY LOAM
K=0.24

BERKSHIRE/MONADNOCK
35%-65% SLOPES
VERY STONY
K=0.24/0.28

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

VT STATE PLANE GRID

N

APPROX. EXISTING R.O.W.

RIPARIAN BUFFER

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007epsc.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: R. PELLETT	CHECKED BY: F. BARROWS
EXISTING CONDITIONS	SHEET 9 OF 29

CONSTRUCT DRIVE:

STA 198+83.50 - 199+13.00 RT
(4' PAVED APRON)

REMOVE SIGNS:

STA 199+54.00 RT
STA 200+95.00 LT

WATERBORNE 4 INCH WHITE LINE:

STA 198+75.00 - STA 202+25.00 LT & RT

WATERBORNE 4 INCH YELLOW LINE:

STA 198+75.00 - STA 202+25.00 LT & RT

TRAFFIC SIGN, TYPE A:

STA 199+94.00 RT (VD-701)
STA 200+63.00 LT (VD-700)
STA 200+63.00 LT (VD-701)

DELINEATOR WITH STEEL POST:

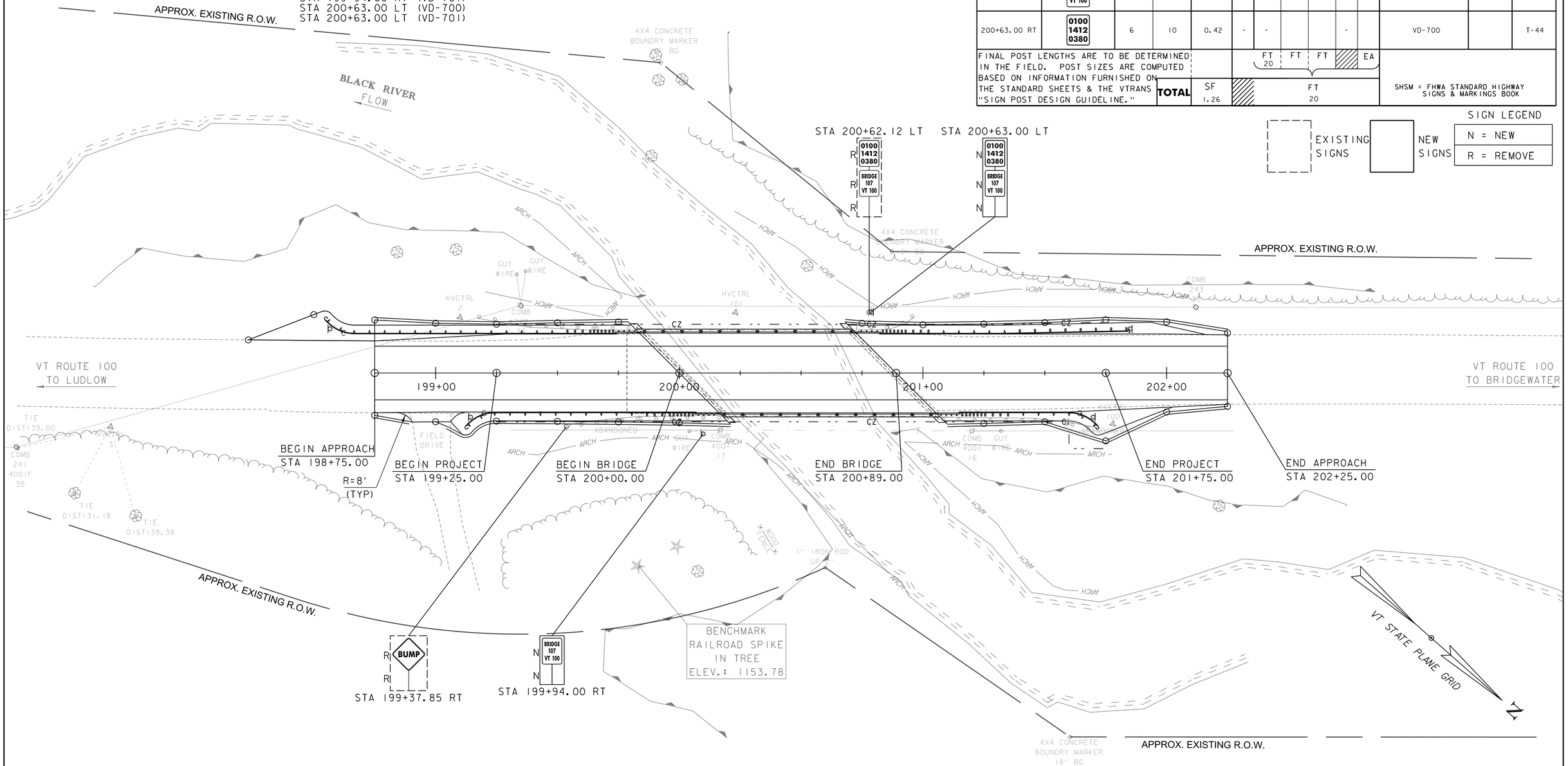
STA 198+56.00 LT (GREEN)
STA 199+14.00 RT (BLUE)
STA 201+85.00 LT (BLUE)
STA 201+71.00 RT (GREEN)

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW SIGN "A"	NEW SIGN POSTS NO. OF POSTS	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
199+94.00 RT	BRIDGE 107 VT 100	6	10	0.42	1	10			X		VD-701		T-42
200+63.00 RT	BRIDGE 107 VT 100	6	10	0.42	1	10			X		VD-701		T-42
200+63.00 RT	0100 1412 0380	6	10	0.42	-	-			-		VD-700		T-44
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS & THE VTRANS "SIGN POST DESIGN GUIDELINE."					FT 20	FT	FT			EA			
			TOTAL	SF 1.26		FT 20					SHSM = FHWA STANDARD HIGHWAY SIGNS & MARKINGS BOOK		

SIGN LEGEND

EXISTING SIGNS | NEW SIGNS

N = NEW
R = REMOVE



EXISTING BRIDGE INFORMATION
BUILT 1954,
SINGLE SPAN STEEL BEAM BRIDGE
CAST-IN-PLACE CONCRETE DECK
87' MAXIMUM SPAN

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

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

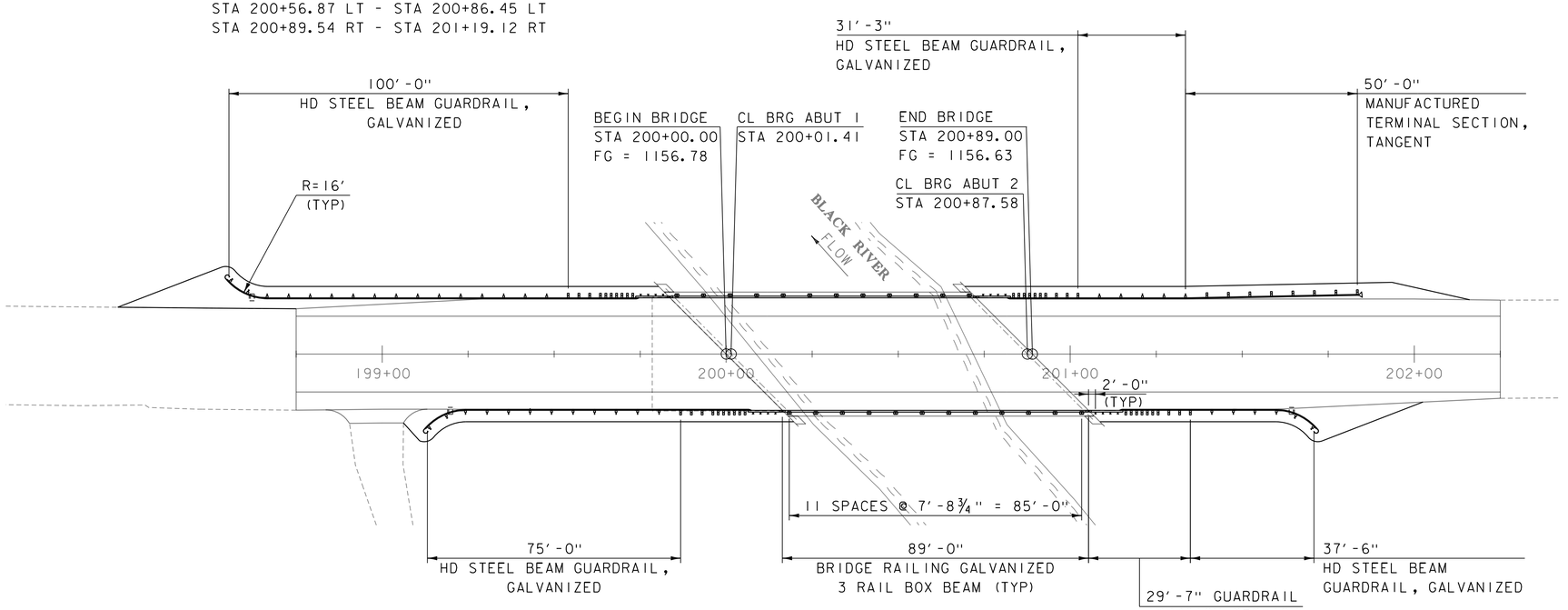
FILE NAME: sl8b007border.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: K. LIHIC
DECK REPLACEMENT LAYOUT

PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 10 OF 29

SPECIAL PROVISION (GUARDRAIL THRIE BEAM APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM)
STA 199+38.29 LT - STA 199+67.87 LT
STA 199+70.95 RT - STA 200+00.54 RT
STA 200+56.87 LT - STA 200+86.45 LT
STA 200+89.54 RT - STA 201+19.12 RT

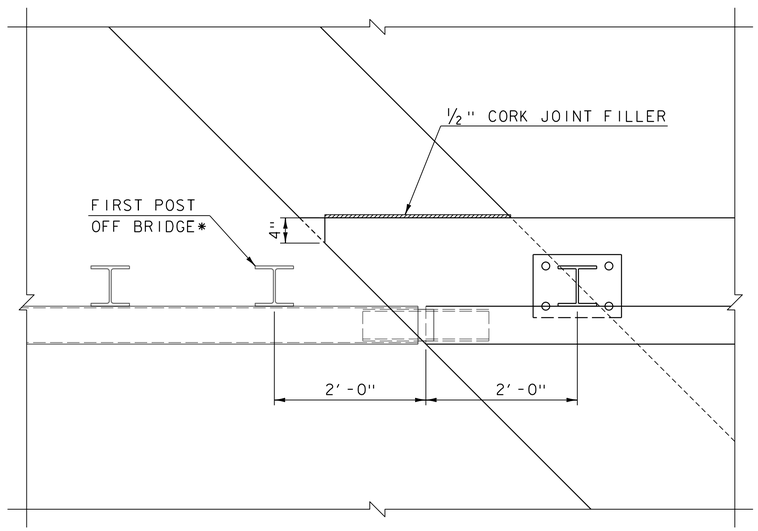
BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM
STA 199+67.87 LT - STA 200+56.87 LT
STA 200+00.54 RT - STA 200+89.54 RT

HD STEEL BEAM GUARDRAIL, GALVANIZED
STA 198+38.29 LT - 199+38.29 LT
STA 198+95.95 RT - 199+70.95 RT
STA 200+86.45 LT - 201+67.70 LT
STA 201+19.12 RT - 201+56.62 RT



BRIDGE RAIL LAYOUT

SCALE 1" = 20'-0"

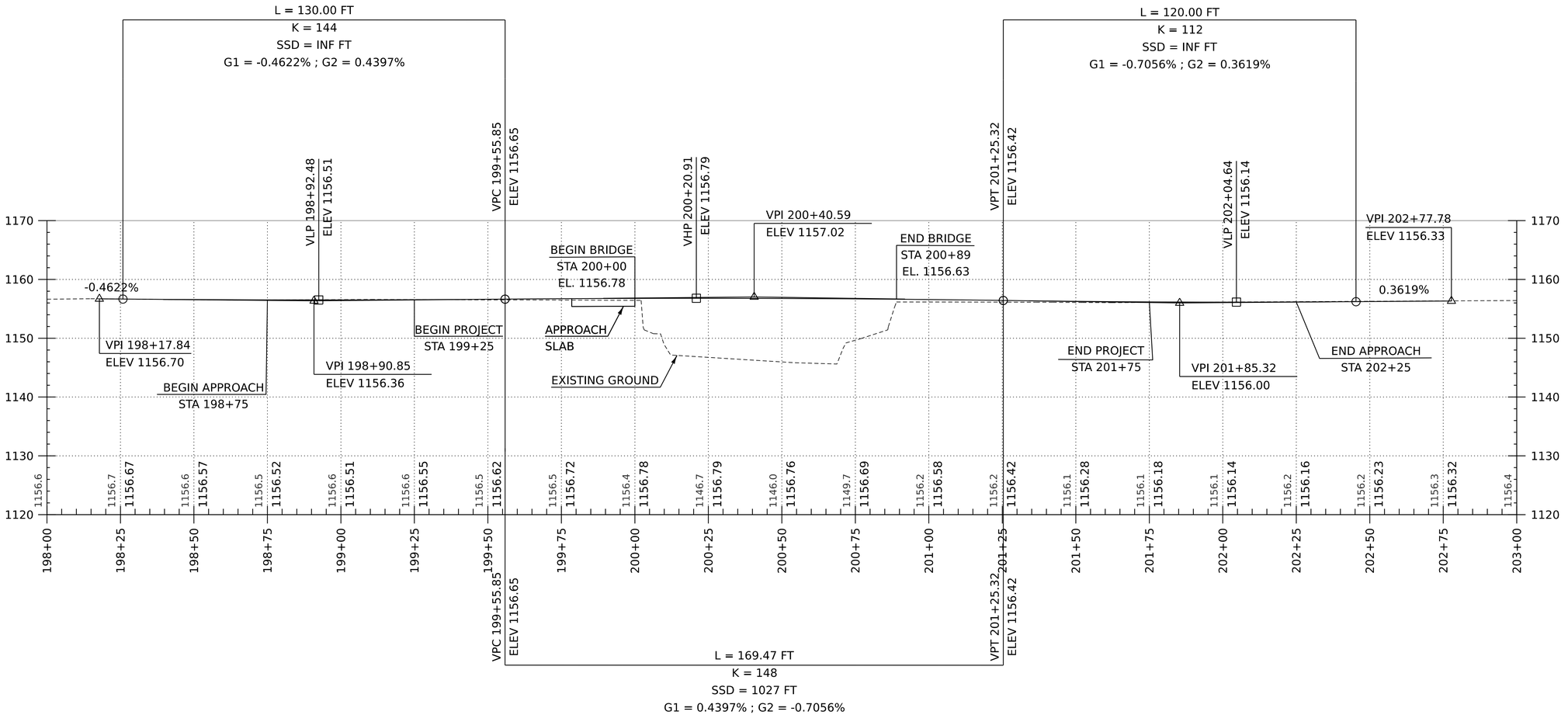


ACUTE CORNER BRIDGE END

SCALE 1" = 2'-0"

*TAKE CAUTION TO AVOID POST CONTACTING BACK OF BATTERED ABUTMENT

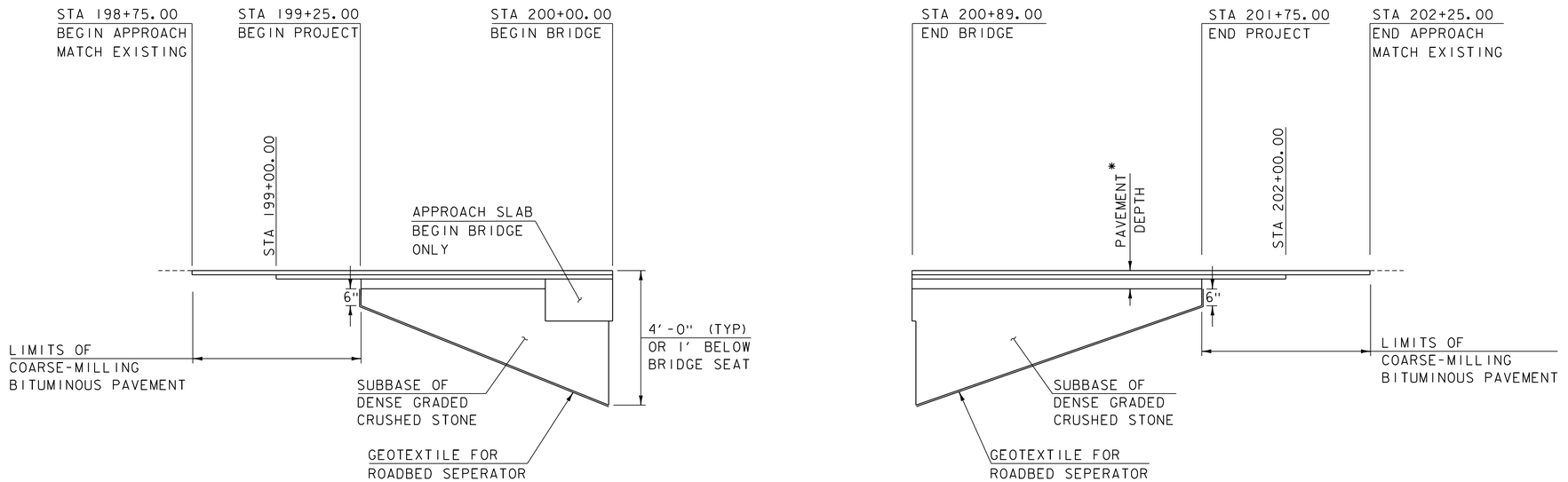
PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: s18b007rail.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
RAIL LAYOUT	SHEET 11 OF 29



VT 100 PROFILE

HORIZONTAL SCALE 1" = 20'.0"
VERTICAL SCALE 1" = 10'.0"

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007Pro.dgn	PLOT DATE: 13-DEC-2022
PROJECT LEADER: J. B. MCCARTHY	DRAWN BY: K. LIHIC
DESIGNED BY: K. LIHIC	CHECKED BY: F. BARROWS
VT ROUTE 100 PROFILE	SHEET 12 OF 29

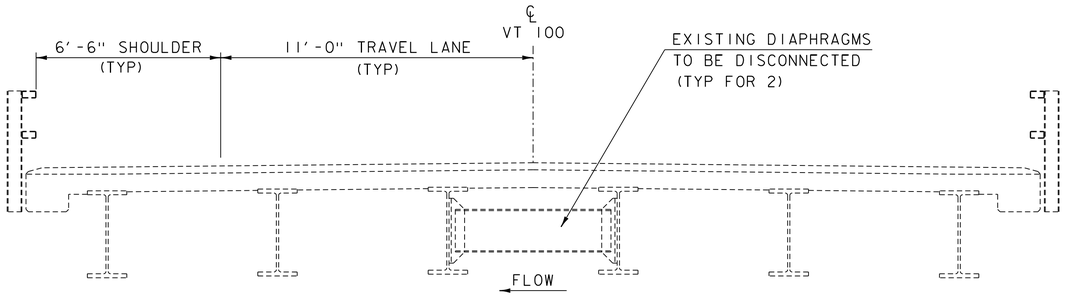


VT 100 MATERIAL TRANSITION

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 2'-0"

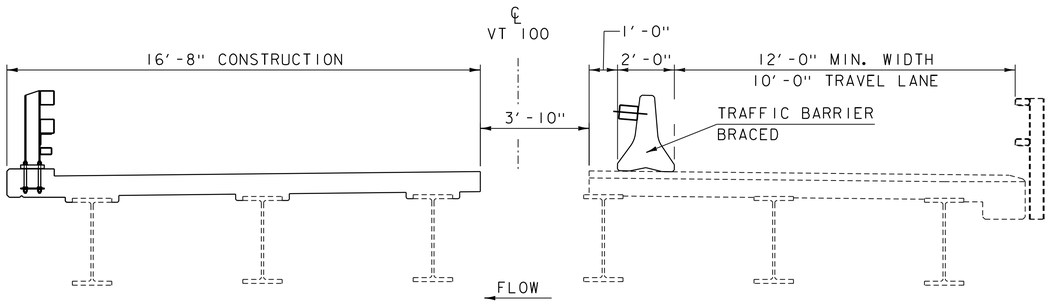
*SEE ROADWAY TYPICAL SECTION FOR PAVEMENT DESIGN INFORMATION

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007Pro.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: K. LIHIC
DESIGNED BY: K. LIHIC	CHECKED BY: F. BARROWS
MATERIAL TRANSITION DIAGRAM	SHEET 13 OF 29



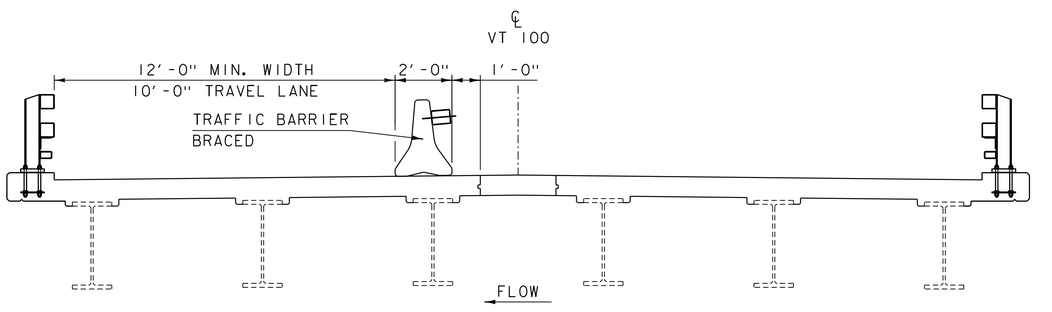
EXISTING BRIDGE TYPICAL SECTION

SCALE 3/8" = 1'-0"



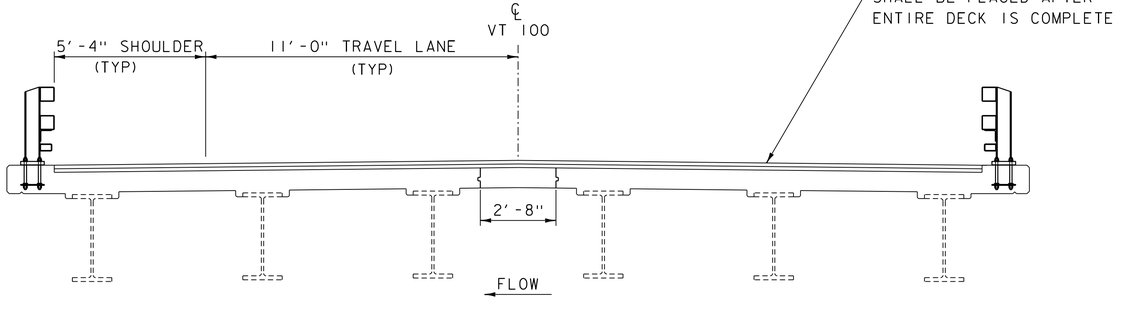
PHASE 1 TYPICAL

SCALE 3/8" = 1'-0"



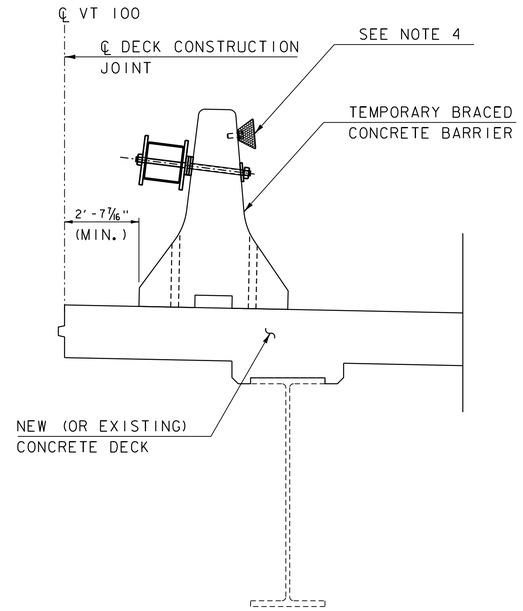
PHASE 2 TYPICAL

SCALE 3/8" = 1'-0"



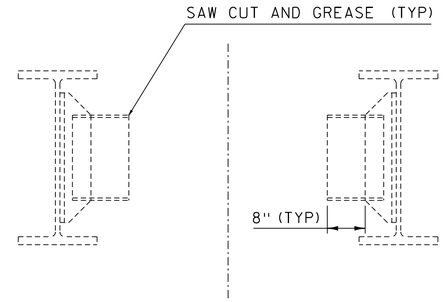
PROPOSED BRIDGE TYPICAL SECTION

SCALE 3/8" = 1'-0"



BRACED CONCRETE BARRIER DETAIL

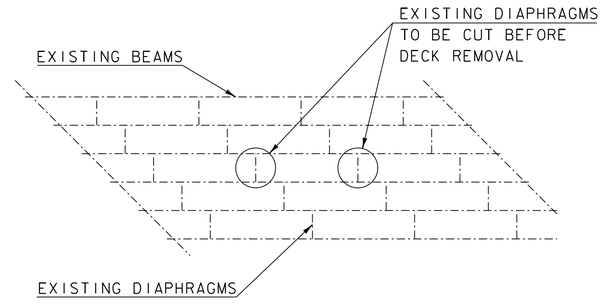
SCALE: 1" = 1'-0"



EXISTING MIDDLE DIAPHRAGM

SCALE 3/4" = 1'-0"

THE CONTRACTOR SHALL REMOVE THE SECOND AND THIRD DIAPHRAGMS IN THE CENTER BAY OF THE BRIDGE AS SHOWN



PLAN OF EXISTING DIAPHRAGMS TO BE CUT

N.T.S.

TRAFFIC CONTROL NOTES

1. PHASE 1 AND 2 REFLECT ONE-WAY ALTERNATING TRAFFIC CONTROLLED BY TEMPORARY TRAFFIC SIGNALS.

2. PHASING LAYOUTS ARE CONCEPTUAL ONLY. PHASING LAYOUT IS INTENDED TO COMMUNICATE BASIC SITE CONDITIONS THAT INCLUDE LANE, BARRIER, SUPPORT OF EXCAVATION, AND TRAFFIC LIGHT LOCATIONS. REFERENCE MUTCD SECTION 6H.01 FIGURE 6H-12 FOR CONCEPT APPROACH SIGNAGE AND SPACING.

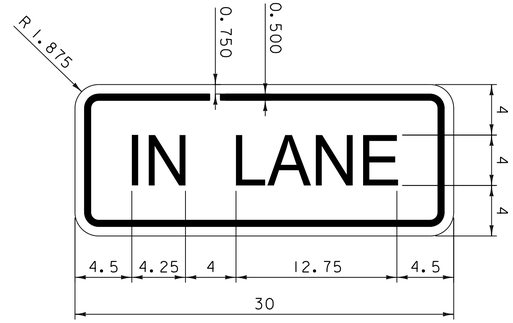
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AND TOWN HIGHWAYS THAT ACCESS VT-100 WITHIN THE PROJECT LIMITS AT ALL TIMES, FOR ALL PHASES OF CONSTRUCTION. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR SHALL COORDINATE ACCESS WITH THE PROPERTY OWNER AND OBTAIN APPROVAL OF THE ENGINEER.

4. BARRIER SHALL BE DELINEATED ON SIDES EXPOSED TO TRAFFIC, DELINEATORS SHALL MATCH CORRESPONDING TEMPORARY PAVEMENT MARKINGS. REFLECTORS SHALL BE MOUNTED EVERY 20 FEET ALONG THE SIDE OF THE BARRIER EXPOSED TO TRAFFIC. REFLECTORS SHALL BE INCIDENTAL TO ITEM 641.11, TRAFFIC CONTROL, ALL-INCLUSIVE.

5. TEMPORARY BARRIER SHALL BE IN ACCORDANCE WITH SECTION 621. IT IS REQUIRED DURING BRIDGE DECK CONSTRUCTION OPERATIONS AND SHALL BE PAID FOR AS ITEM 641.11, TRAFFIC CONTROL, ALL-INCLUSIVE. CHANNELIZING DEVICES SUCH AS RETROREFLECTIVE PLASTIC DRUMS MAY BE UTILIZED DURING PAVING AND MEMBRANE OPERATIONS. SEE TRAFFIC CONTROL NOTES ON PROJECT NOTES SHEET.

6. THE CONTRACTOR MAY FASTEN THE TEMPORARY TRAFFIC BARRIER TO THE EXISTING BRIDGE DECK DURING PHASE 1.

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: s18b007phaseTyp.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
PHASING TYPICAL SECTIONS	SHEET 14 OF 29



BLACK ON FLUORESCENT ORANGE (B/FO) "IN LANE "D

IN LANE SIGN DETAIL

NOT TO SCALE

LEGEND

- CRASH ATTENUATOR
- TEMPORARY STOP BAR
- SIGN
- CONCRETE BARRICADE
- TRAFFIC SIGNAL

APPROX. EXISTING R.O.W.

BLACK RIVER
FLOW

GUY WIRE
GUY WIRE
COMB 242 34

COMB 243 33

199+00
200+00
201+00
202+00

VT ROUTE 100
TO LUDLOW

VT ROUTE 100
TO BRIDGEWATER

ABANDONED
GUY WIRE
COMB 4001 17

ABANDONED
COMB 4001 16
GUY WIRE

12'-0" MIN. WIDTH
WITH EDGE LINES

COMB 241 4001F 35

STOP HERE ON RED

W11-1 (B/FO)

IN LANE
SEE SIGN DETAIL (PHASING LAYOUT 1) (B/FO)

APPROX. EXISTING R.O.W.

STOP HERE ON RED

W11-1 (B/FO)

IN LANE
SEE SIGN DETAIL (PHASING LAYOUT 1) (B/FO)

APPROX. EXISTING R.O.W.

VT STATE PLANE GRID

N

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

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)

FILE NAME: sl8b007phaseLayout.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: R. PELLETT	CHECKED BY: F. BARROWS
PHASING LAYOUT 1	SHEET 15 OF 29

LEGEND

- CRASH ATTENUATOR
- TEMPORARY STOP BAR
- SIGN
- CONCRETE BARRICADE
- TRAFFIC SIGNAL

APPROX. EXISTING R.O.W.

BLACK RIVER
FLOW

12'-0" MIN. WIDTH
WITH EDGE LINES

GUY WIRE
GUY WIRE
COMB 242 34

COMB 243 33

APPROX. EXISTING R.O.W.

VT ROUTE 100
TO LUDLOW

199+00
200+00
201+00
202+00

VT ROUTE 100
TO BRIDGEWATER

ABANDONED
GUY WIRE
COMB 4001 17
PHASE LINE
COMB 4001 16
GUY WIRE
ABANDONED

COMB 241 4001F 35

STOP HERE ON RED

W11-1 (B/FO)

IN LANE

SEE SIGN DETAIL (THIS SHEET) (B/FO)

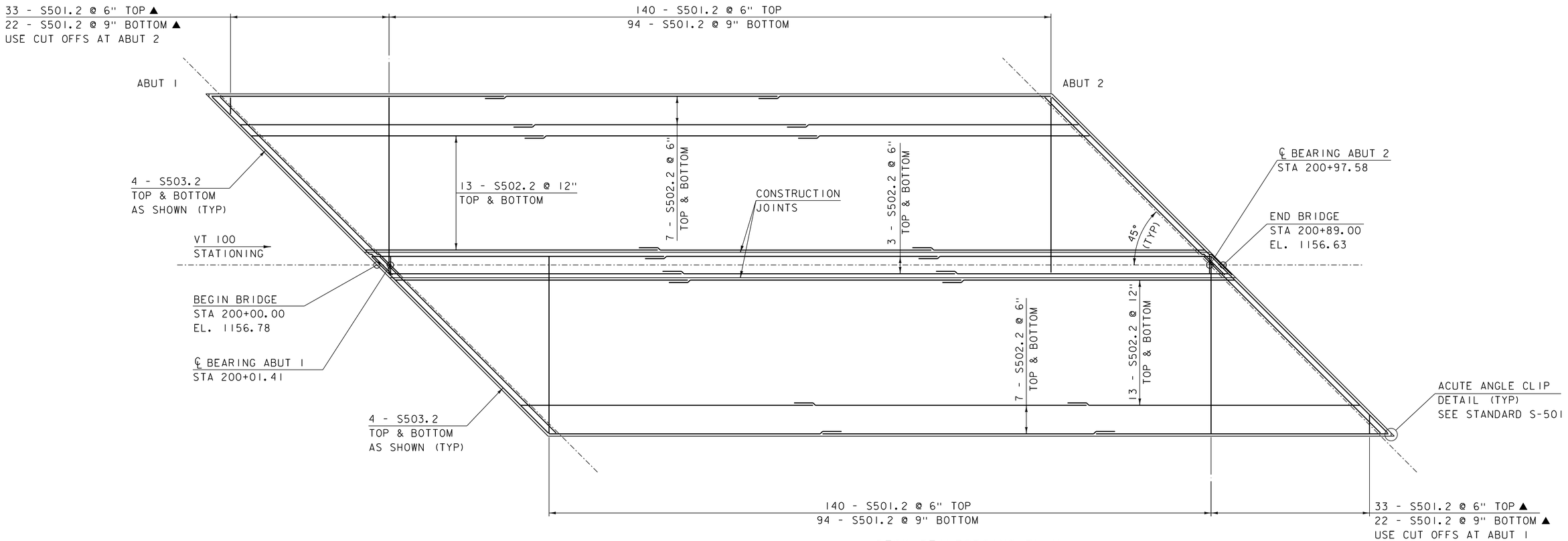
APPROX. EXISTING R.O.W.

VT STATE PLANE GRID

APPROX. EXISTING R.O.W.

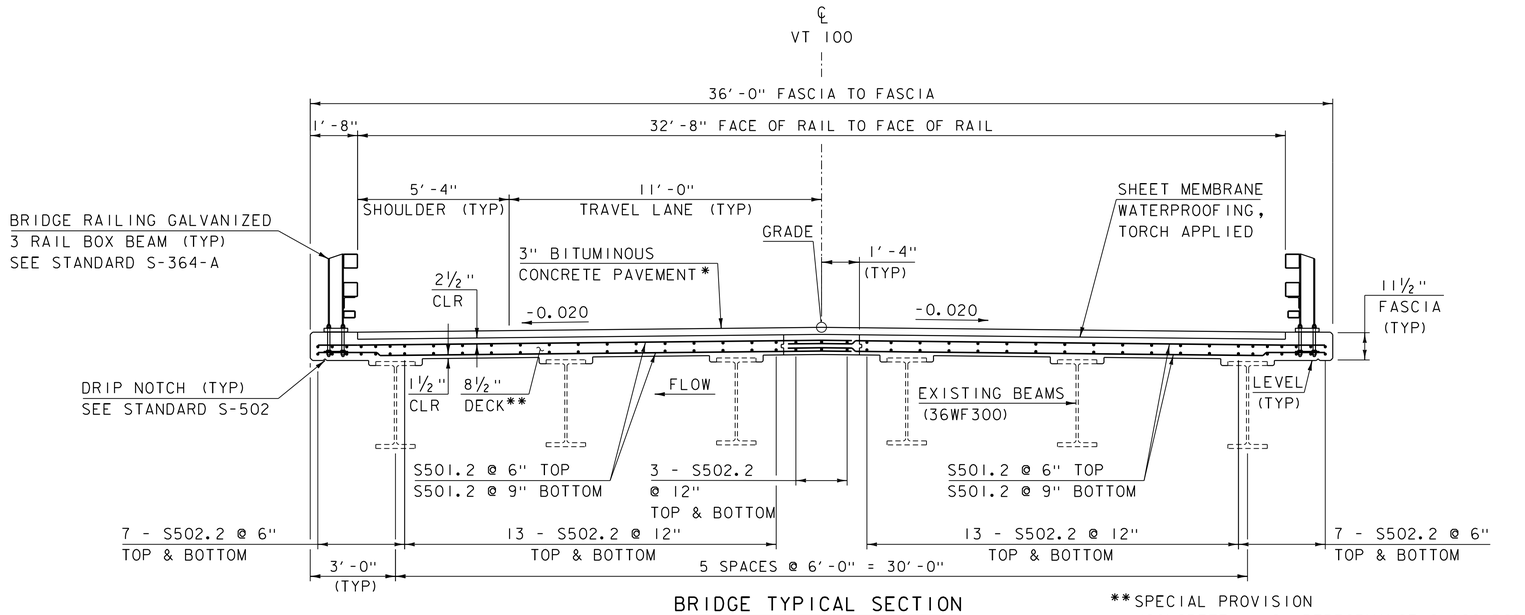
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007phaseLayout.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: R. PELLETT	CHECKED BY: F. BARROWS
PHASING LAYOUT 2	SHEET 16 OF 29



DECK REINFORCING PLAN

SCALE 3/16" = 1'-0"



BRIDGE TYPICAL SECTION

SCALE 3/8" = 1'-0"

**SPECIAL PROVISION
(CONCRETE, HIGH PERFORMANCE CLASS PCD)

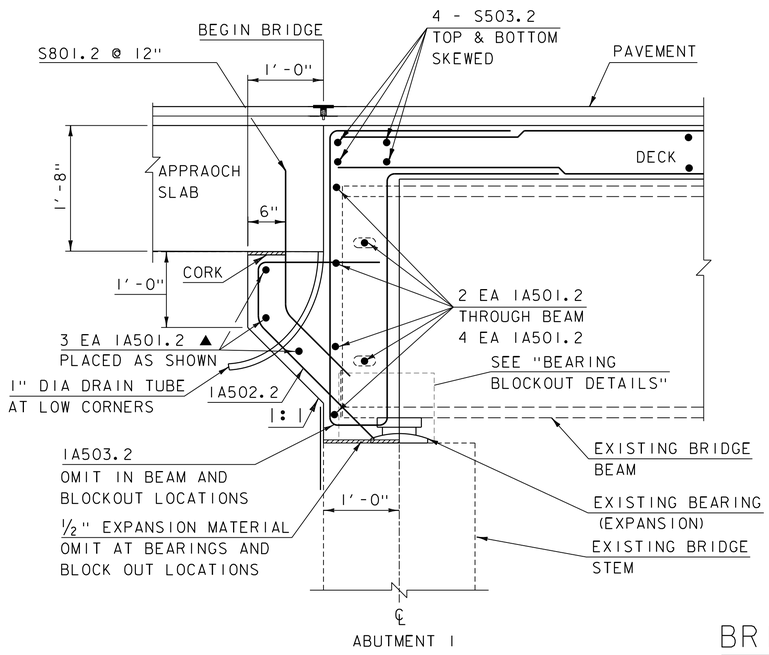
NOTE:

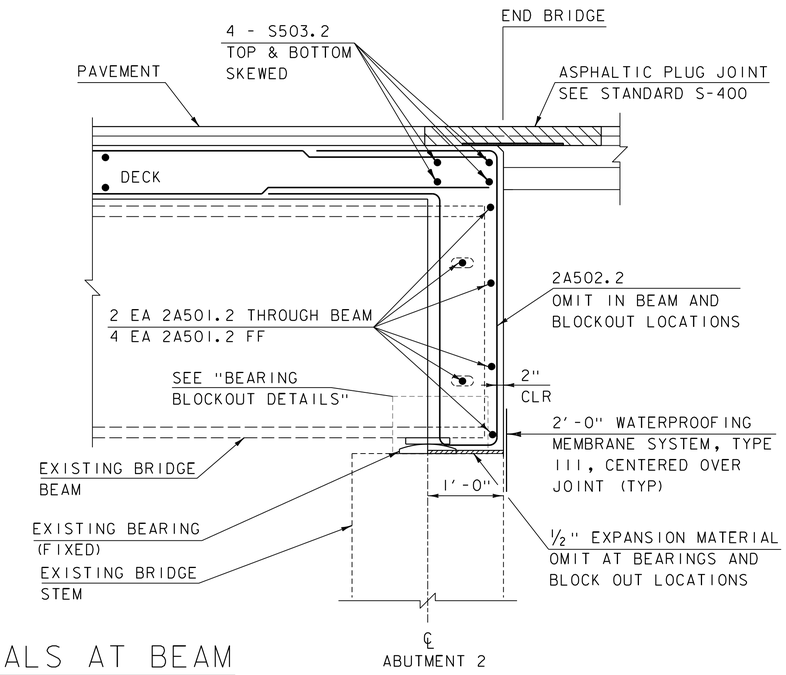
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-4" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: sl8b007super.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: F. BARROWS
DECK REINFORCING

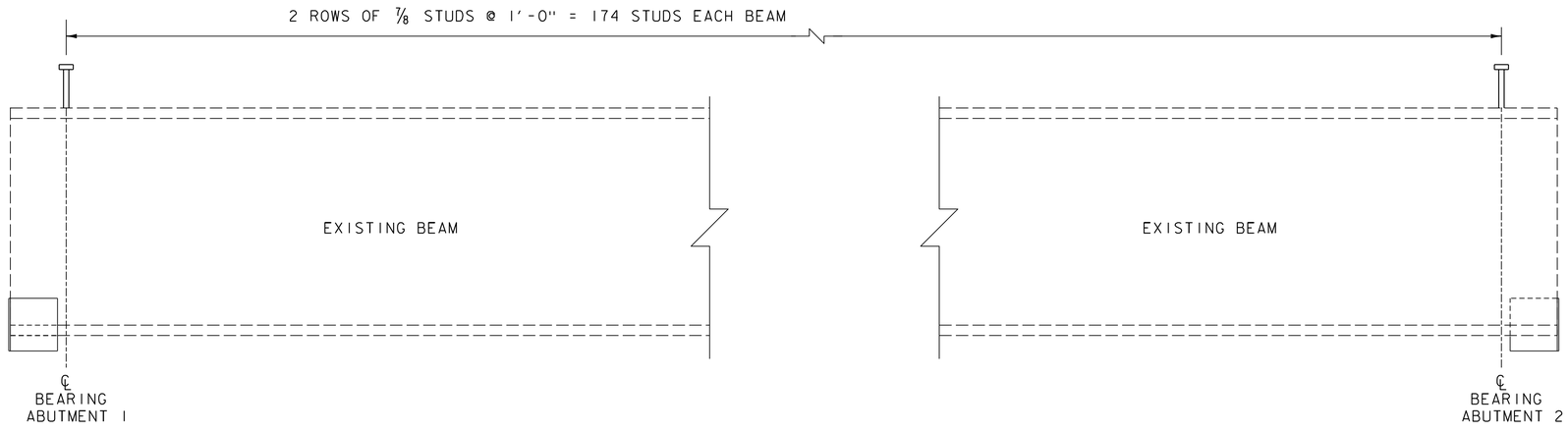
PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 17 OF 29





BRIDGE END TYPICALS AT BEAM

SCALE 1" = 1'-0"



BEAM ELEVATION

SCALE 1" = 1'-0"

NOTE:

NF = NEAR FACE
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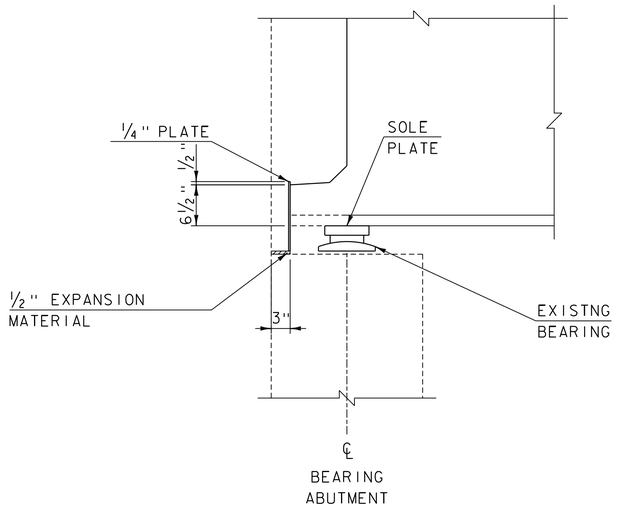
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-4" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

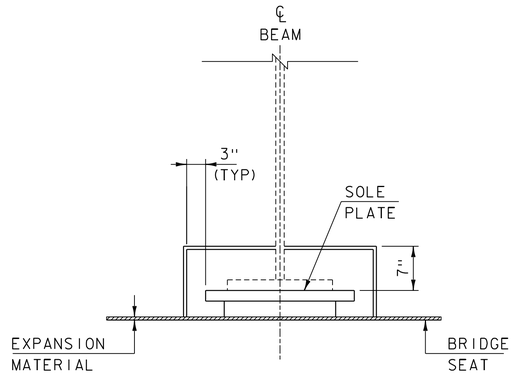
FILE NAME: s18B007subst.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: F. BARROWS
BRIDGE END DETAILS

PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 18 OF 29



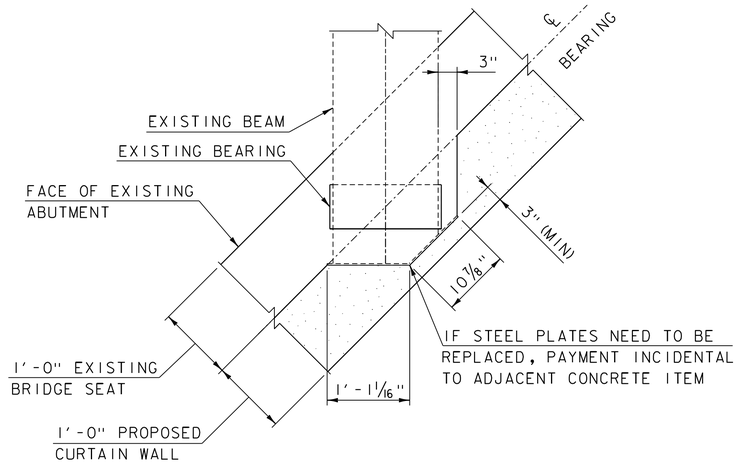
ELEVATION BEARING BOX OUT

SCALE 1" = 1'-0"



ELEVATION BEARING BOX OUT

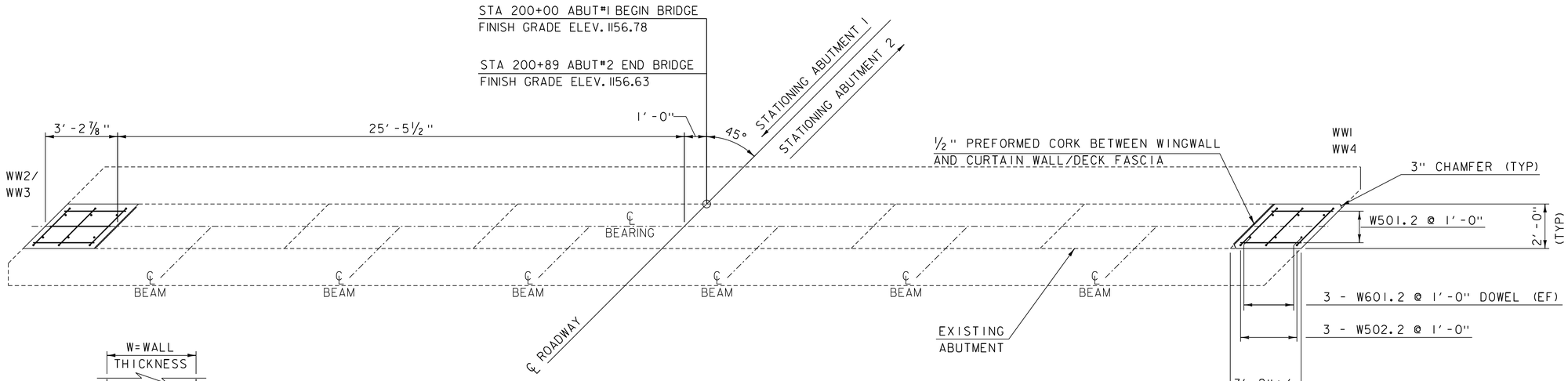
SCALE 1" = 1'-0"



BEARING BOX OUT DETAIL

SCALE 1" = 1'-0"

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: s18B007subst.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
BEARING DETAILS	SHEET 19 OF 29

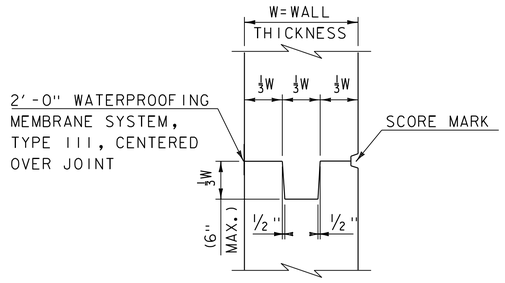


ABUTMENT PLAN

SCALE ⅜" = 1'-0"

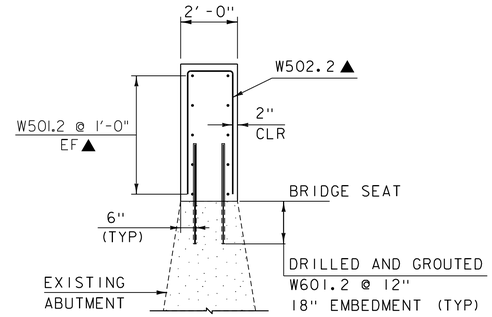
FLOW ABUTMENT 1

FLOW ABUTMENT 2



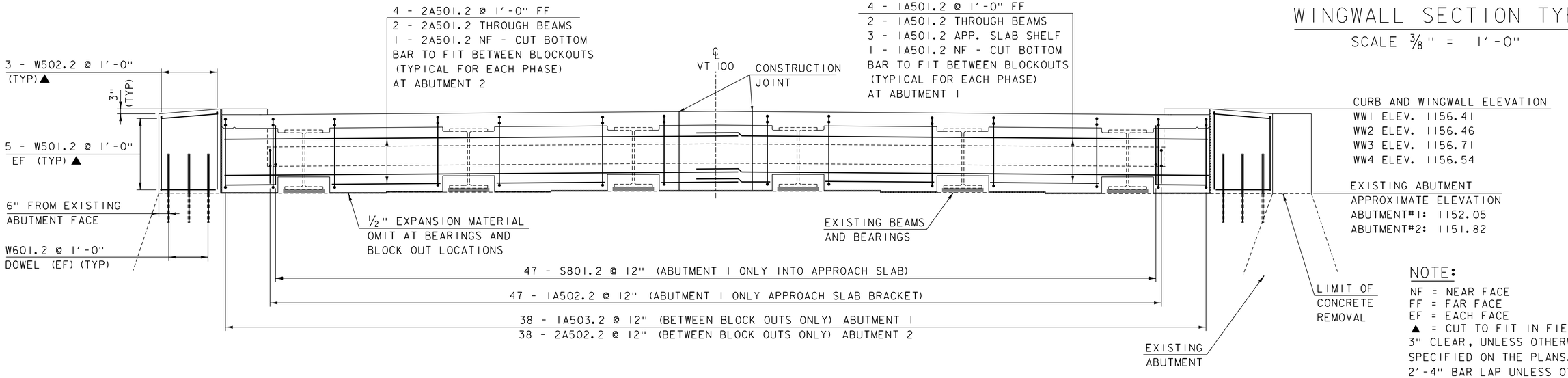
TYPICAL VERTICAL CONCRETE CONSTRUCTION JOINT

(NOT TO SCALE)



WINGWALL SECTION TYP

SCALE ⅜" = 1'-0"



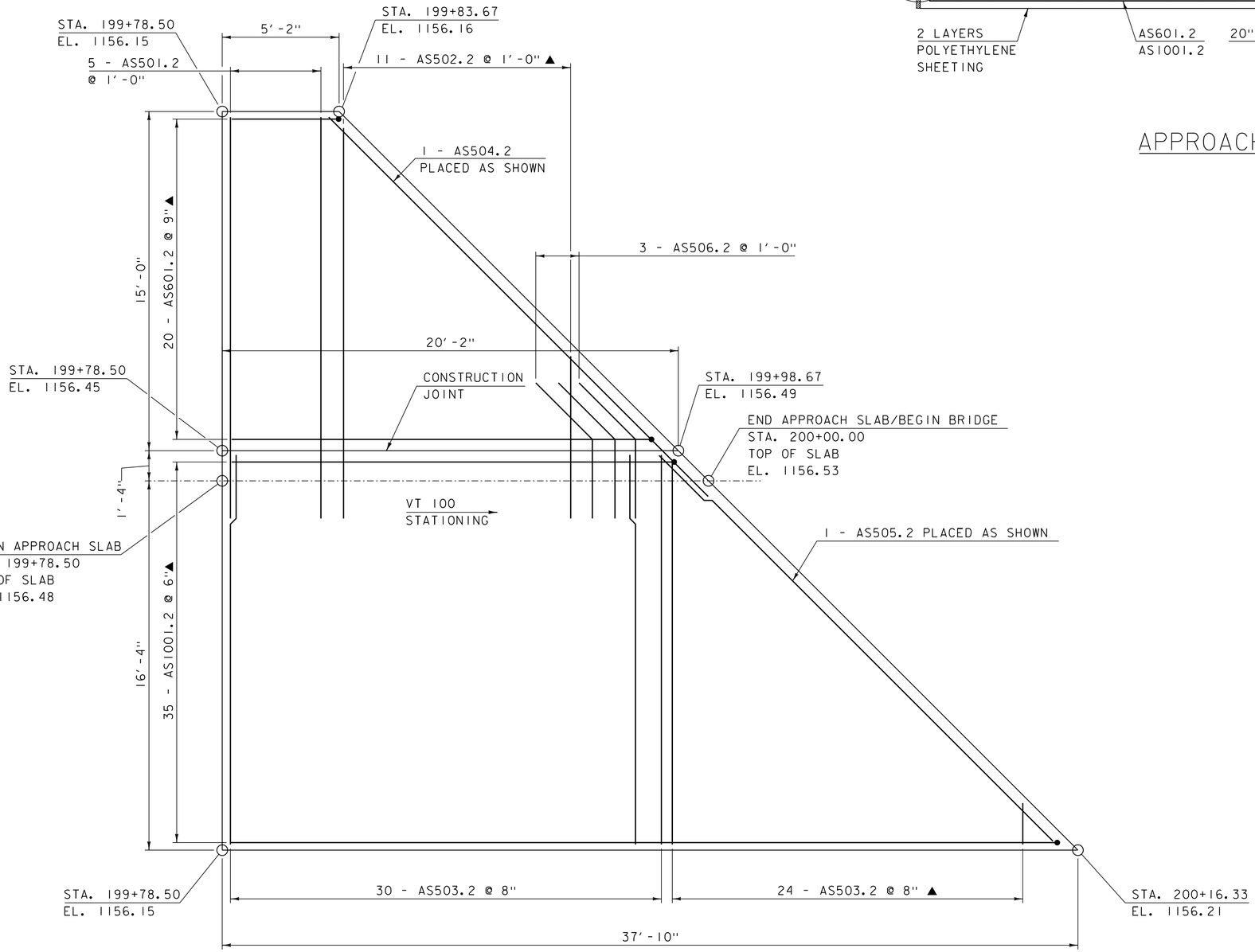
CURTAINWALL/ABUTMENT ELEVATION

SCALE ⅜" = 1'-0"

NOTE:

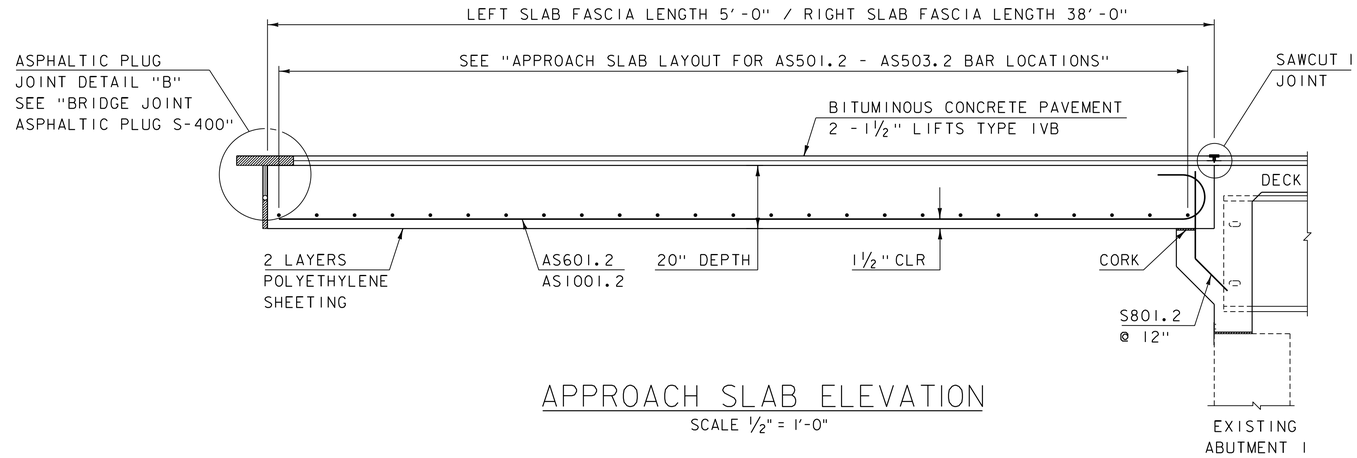
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-4" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8B007subst.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R.PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
ABUTMENT DETAILS	SHEET 20 OF 29



APPROACH SLAB LAYOUT

SCALE 3/8" = 1′-0"



APPROACH SLAB ELEVATION

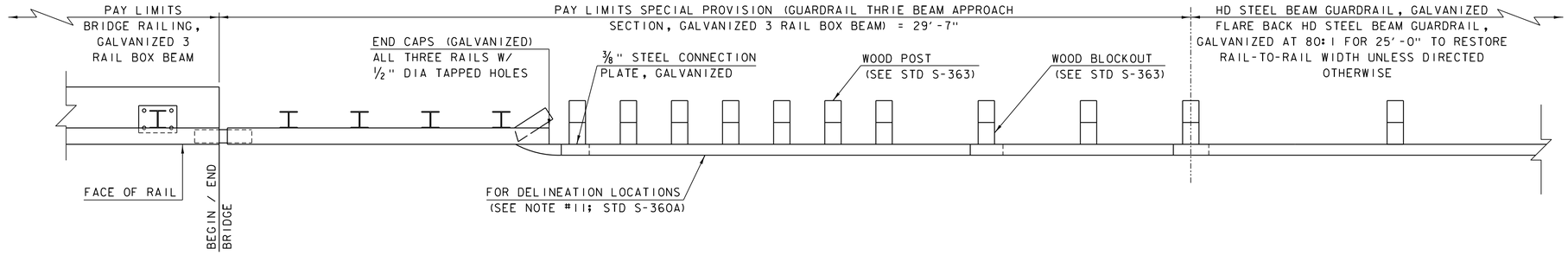
SCALE 1/2" = 1′-0"

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2′-4" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

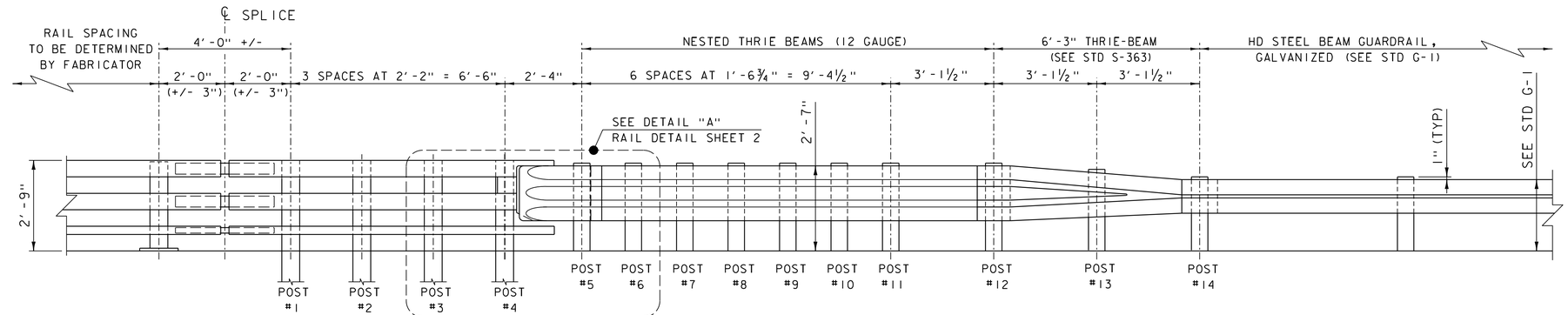
PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)

FILE NAME: sl8b007super.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
APPROACH SLAB DETAILS	SHEET 21 OF 29



RAILING TRANSITION PLAN

SCALE: ½" = 1'-0"



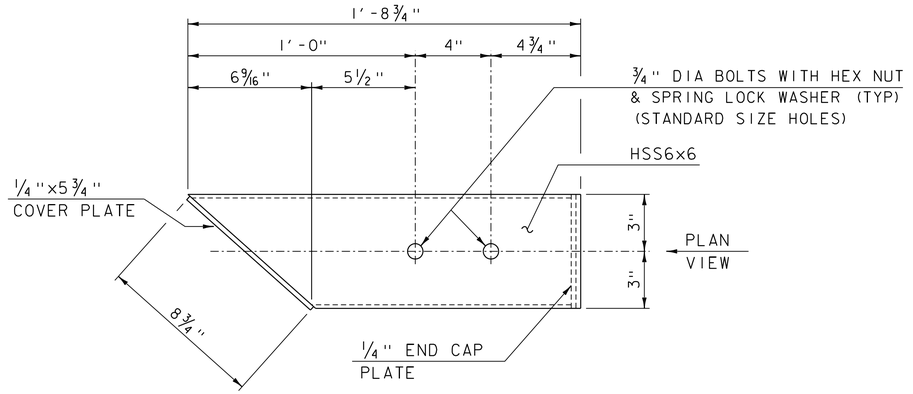
RAILING TRANSITION ELEVATION

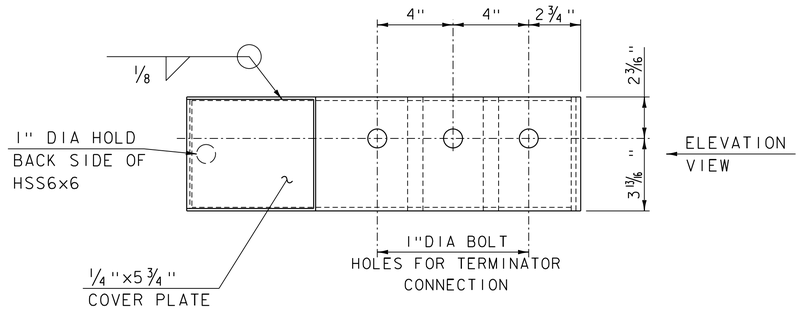
SCALE: ½" = 1'-0"

NOTES:

1. ALL APPROACH RAIL SPLICES SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW.
2. TUBE AND STEEL POST MATERIALS, DIMENSION SIZES AND NOTES SHALL BE THE SAME AS THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
3. APPROACH RAIL BOLTS SHALL BE ASTM A307 GRADE A AND NUTS SHALL BE AASHTO M291 (ASTM A563 GRADE A OR BETTER) (GALVANIZED). WASHERS SHALL BE ASTM F844.
4. PRIOR TO GALVANIZING, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".

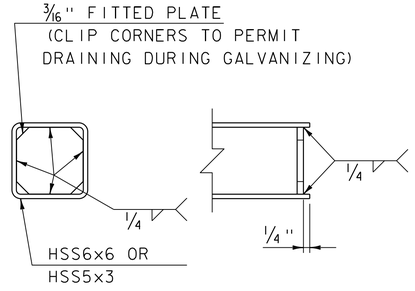
PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007rail.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
APPROACH RAIL DETAIL SHEET 1	SHEET 22 OF 29





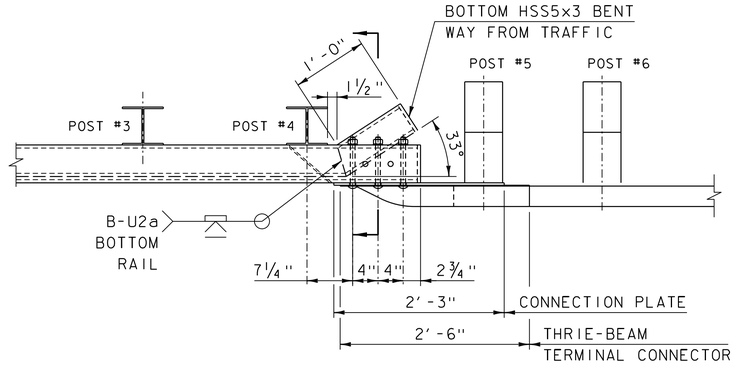
DETAIL "C"

SCALE: 3"=1'-0"



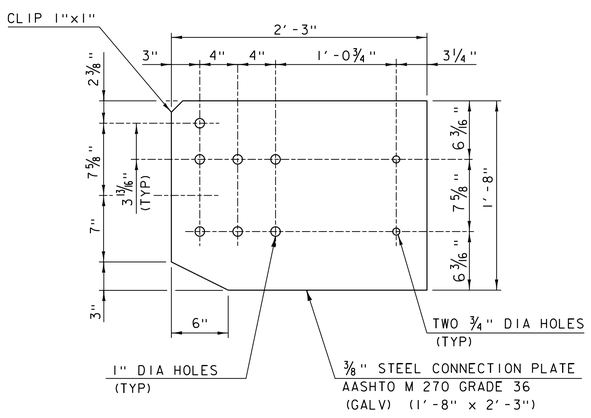
END CAP PLATE DETAIL

SCALE: 3"=1'-0"



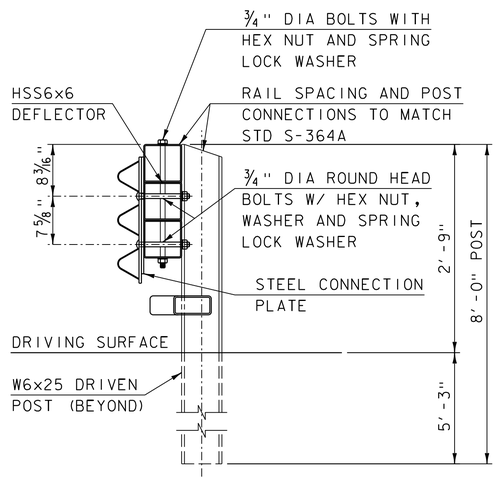
THRIE-BEAM TERMINAL CONNECTION PLAN VIEW

SCALE: 1"=1'-0"



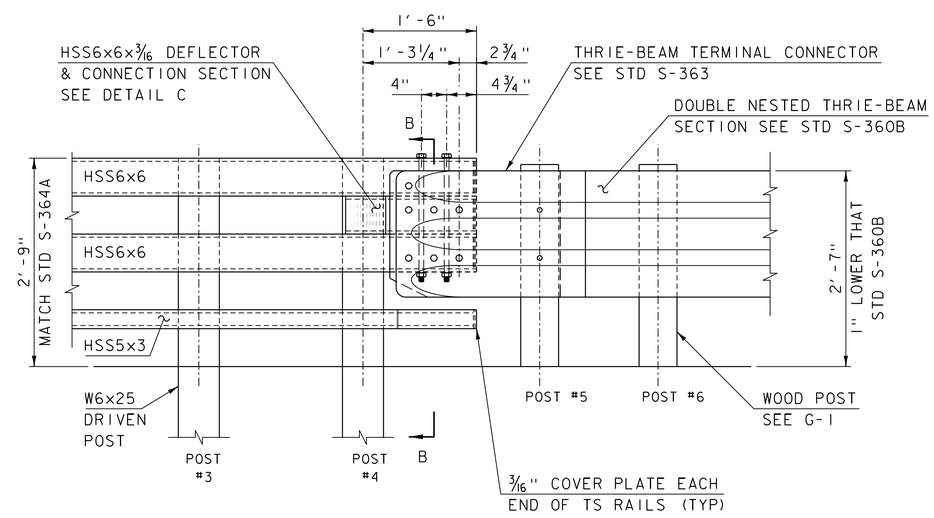
CONNECTION PLATE

SCALE: 1 1/2"=1'-0"



SECTION B-B

SCALE: 1"=1'-0"



DETAIL A - TERMINAL CONNECTION ELEVATION VIEW

SCALE: 1"=1'-0"

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)

FILE NAME: sl8b007rail.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
APPROACH RAIL DETAIL SHEET 2	SHEET 23 OF 29

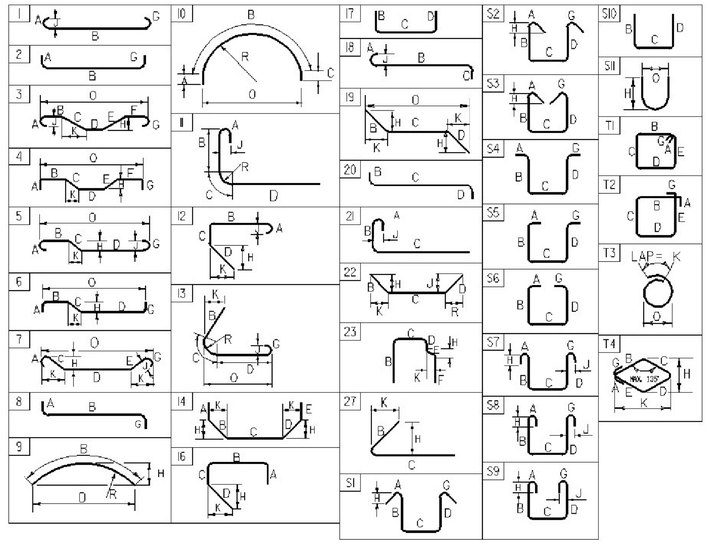
STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	DECK																
▲	580	5	18'- 10"	S501.2	STR	18'- 10"											
	258	5	31'- 0"	S502.2	STR	31'- 0"											
	16	5	26'- 8"	S503.2	STR	26'- 8"											
△	47	8	4'- 4"	S801.2	22		1'- 9"	2'- 7"	---				1'- 3"	---	1'- 3"	---	
	APPROACH SLAB 1																
	5	5	17'- 9"	AS501.2	STR	17'- 9"											
▲	11	5	17'- 5"	AS502.2	STR	17'- 5"											
▲	54	5	17'- 2"	AS503.2	STR	17'- 2"											
	1	5	23'- 7"	AS504.2	STR	23'- 7"											
	1	5	25'- 0"	AS505.2	STR	25'- 0"											
	3	5	7'- 0"	AS506.2	22		3'- 6"	3'- 6"	---				2'- 6"	---	2'- 6"	---	
✳ ▲	21	5	21'- 1"	AS601.2	1	1'- 10"	19'- 3"					---		0'- 6"			
✳ ▲	36	10	38'- 10"	AS1001.2	1	1'- 10"	37'- 0"					---		1'- 1"			
	CURTAIN WALL 1																
	20	5	26'- 5"	1A501.2	STR	26'- 5"											
	47	5	4'- 2"	1A502.2	16	---	1'- 6"	0'- 9"	1'- 11"				1'- 4"	---	1'- 4"	---	
	38	5	12'- 3"	1A503.2	S5	2'- 4"	3'- 6"	0'- 11"	3'- 2"			2'- 4"					
	CURTAIN WALL 2																
	14	5	26'- 5"	2A501.2	STR	26'- 5"											
	38	5	13'- 7"	2A502.2	S5	2'- 4"	4'- 2"	0'- 11"	3'- 10"			2'- 4"					
	WINGWALL 1																
▲	10	5	2'- 8"	1W501.2	STR	2'- 8"											
▲	3	5	9'- 10"	1W502.2	S10		3'- 10"	2'- 2"	3'- 10"								
	6	6	3'- 6"	1W601.2	STR	3'- 6"											
	WINGWALL 2																
▲	10	5	2'- 8"	2W501.2	STR	2'- 8"											
▲	3	5	9'- 10"	2W502.2	S10		3'- 10"	2'- 2"	3'- 10"								
	6	6	3'- 6"	2W601.2	STR	3'- 6"											
	WINGWALL 3																
▲	10	5	2'- 8"	3W501.2	STR	2'- 8"											
▲	3	5	9'- 10"	3W502.2	S10		3'- 10"	2'- 2"	3'- 10"								
	6	6	3'- 6"	3W601.2	STR	3'- 6"											
	WINGWALL 4																
▲	10	5	2'- 8"	4W501.2	STR	2'- 8"											
▲	3	5	9'- 10"	4W502.2	S10		3'- 10"	2'- 2"	3'- 10"								
	6	6	3'- 6"	4W601.2	STR	3'- 6"											

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES 2	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.04	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.14
#9	3.400	1.13	1.00	3.54
#10	4.3	1.270	1.27	3.990
#11	5.31	1.410	1.56	4.430
#14	7.65	1.69	2.25	5.32
#18	13.60	2.26	4.00	7.09

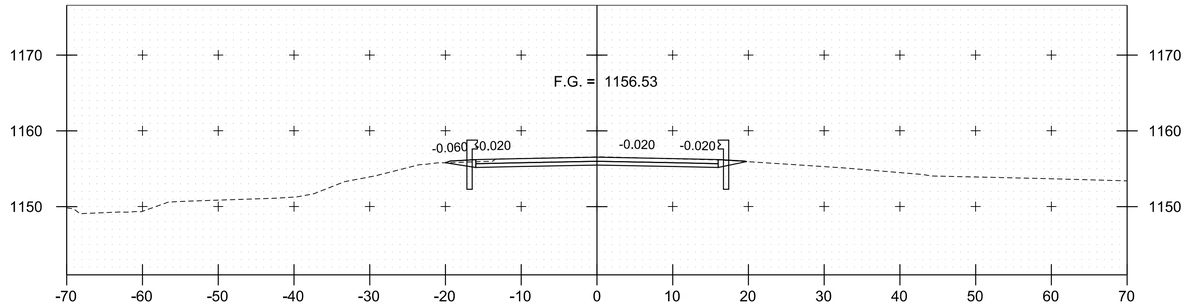
~ REINFORCING STEEL CORROSION RESISTANCE LEVEL ~

THE REINFORCING STEEL MARKS IN THIS SCHEDULE INDICATE THE REQUIRED BAR CORROSION RESISTANCE LEVEL. CORROSION RESISTANCE LEVEL IS DENOTED WITH A .2 FOR LEVEL TWO SUFFIX OR .3 FOR LEVEL THREE SUFFIX, .1 FOR LEVEL ONE IS TO BE OMITTED. THE BAR MATERIAL TYPE AND BAR STEEL GRADE PROVIDED FOR EACH CORROSION LEVEL WILL BE RECORDED ON THE PLAN SET PI SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

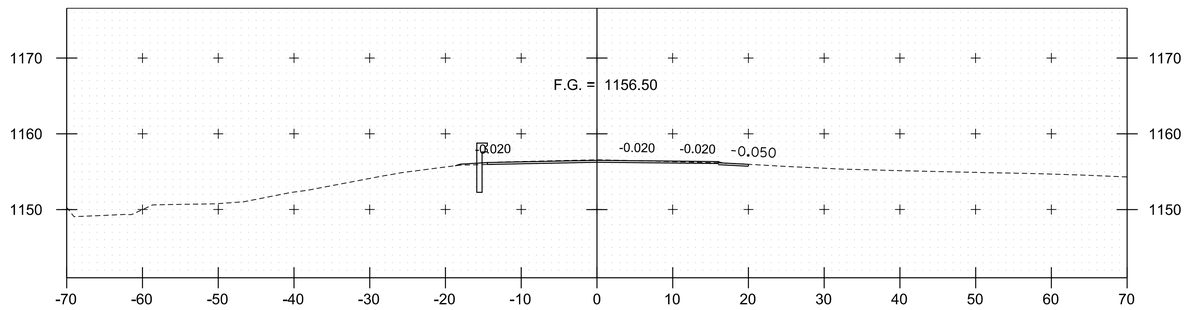
FILE NAME: sl8b007rss.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: K. LIHIC
REINFORCING STEEL SCHEDULE

PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 24 OF 29



199+25

BEGIN PROJECT



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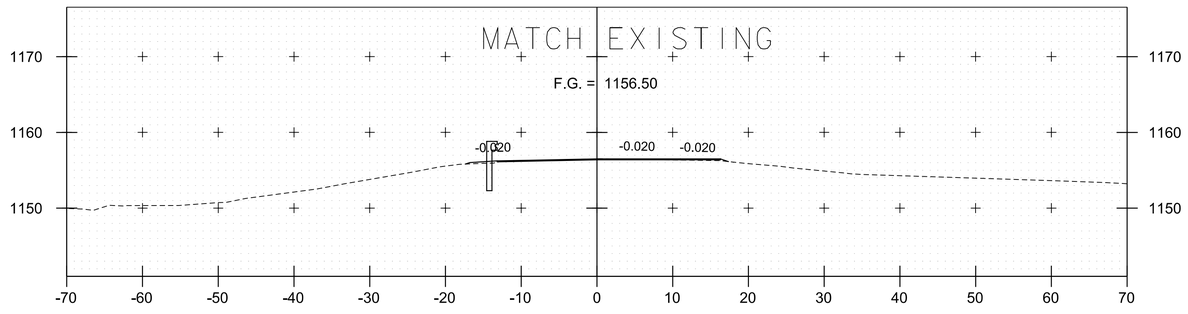
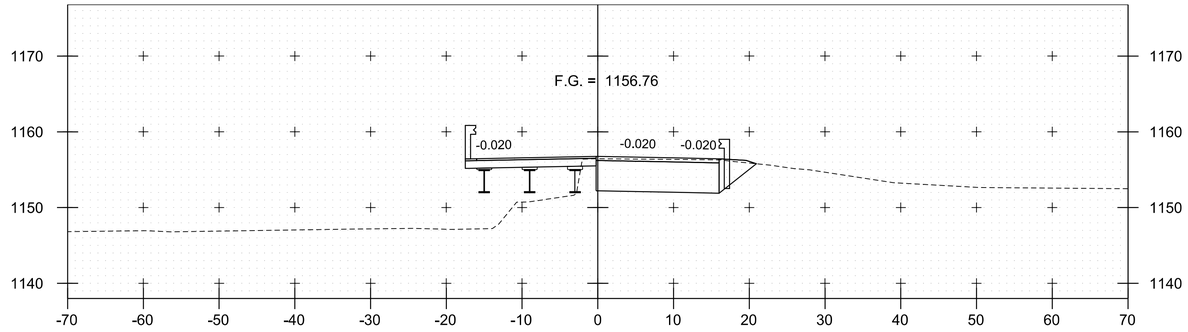


198+75

BEGIN APPROACH



200+00

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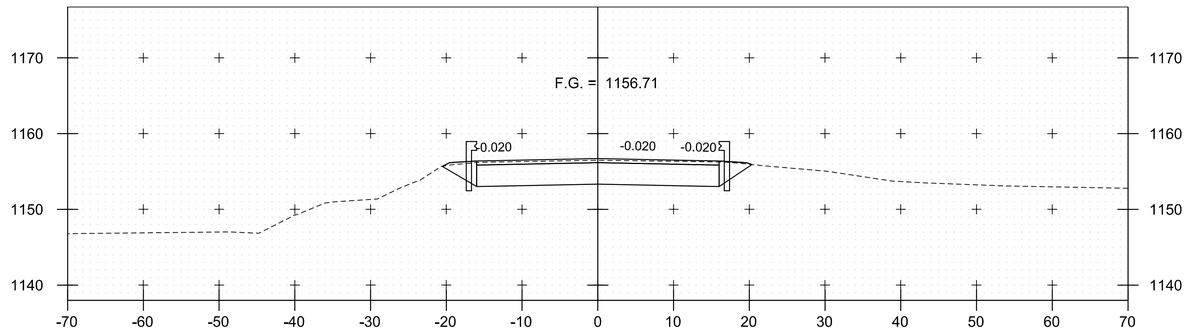

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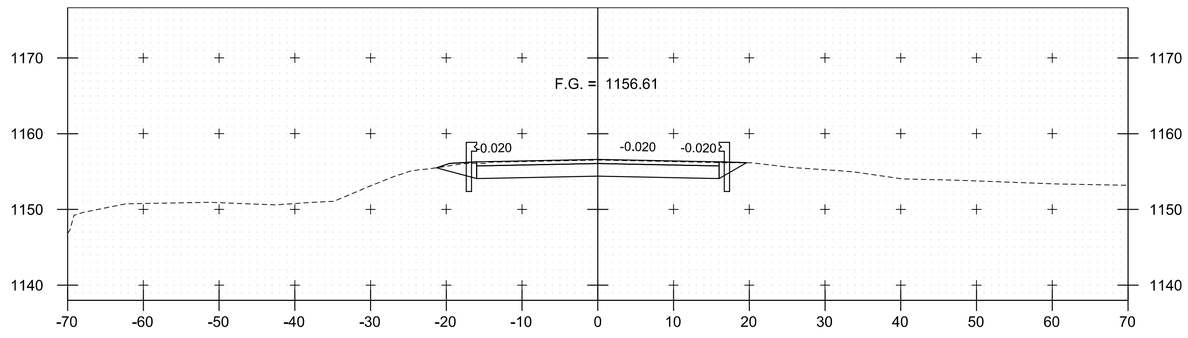
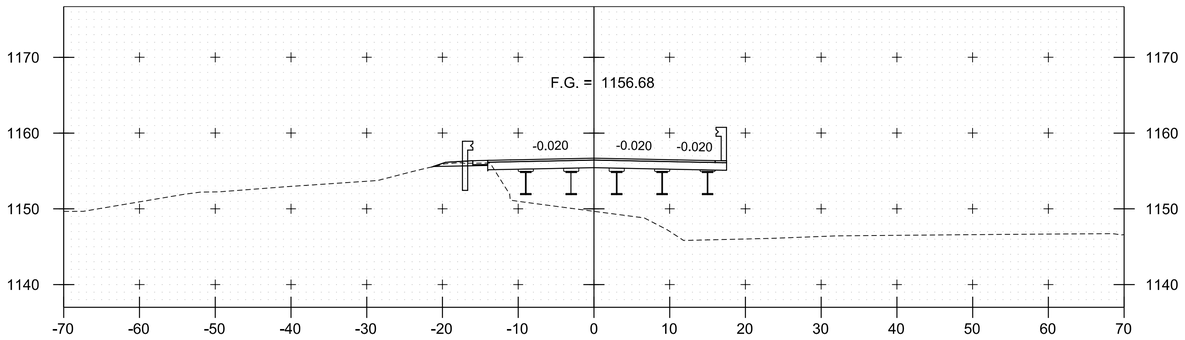


199+50

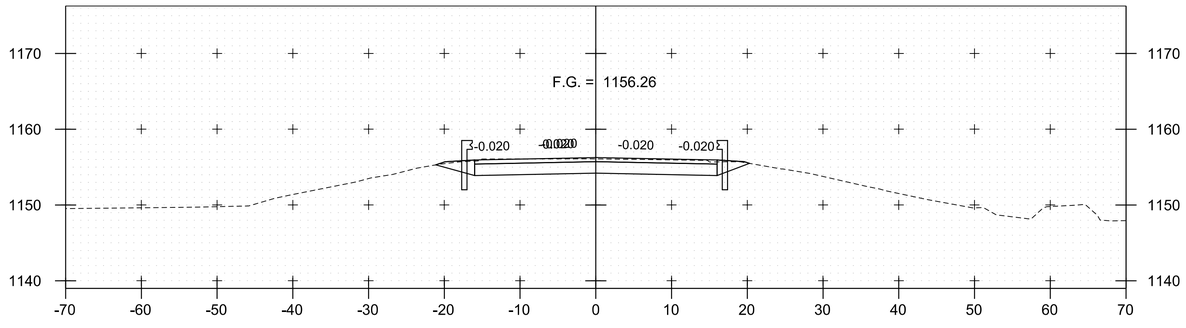
PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)

FILE NAME: sl8b007xs.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: K. LIHIC
DESIGNED BY: K. LIHIC	CHECKED BY: F. BARROWS
MAINLINE CROSS SECTIONS I	SHEET 25 OF 29



200+75

END BRIDGE 200+89



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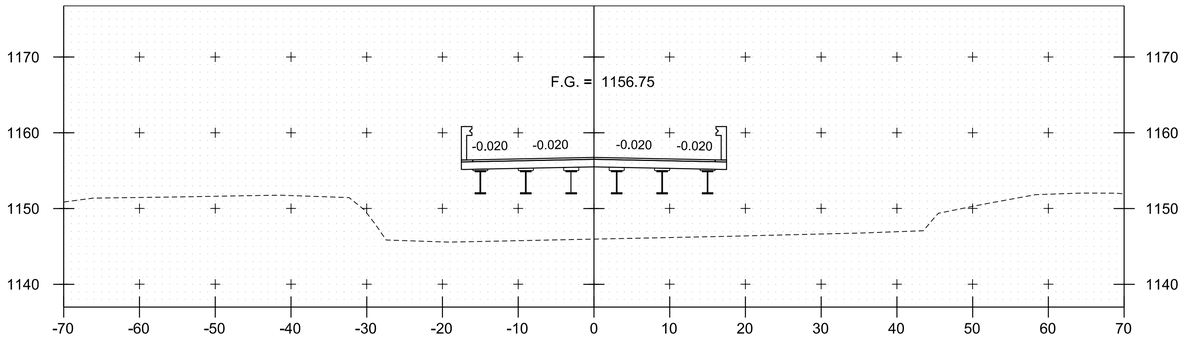

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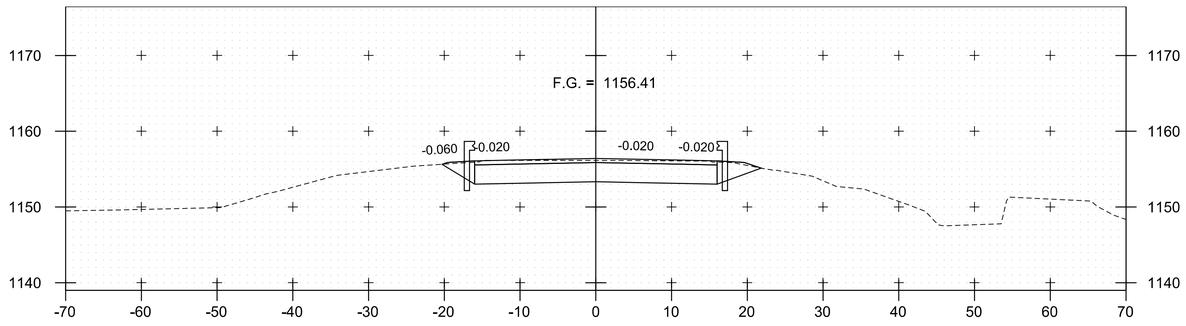

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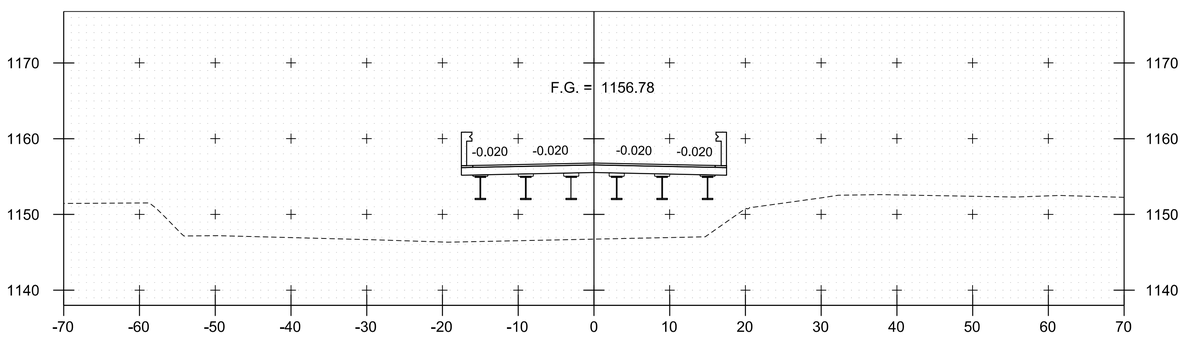

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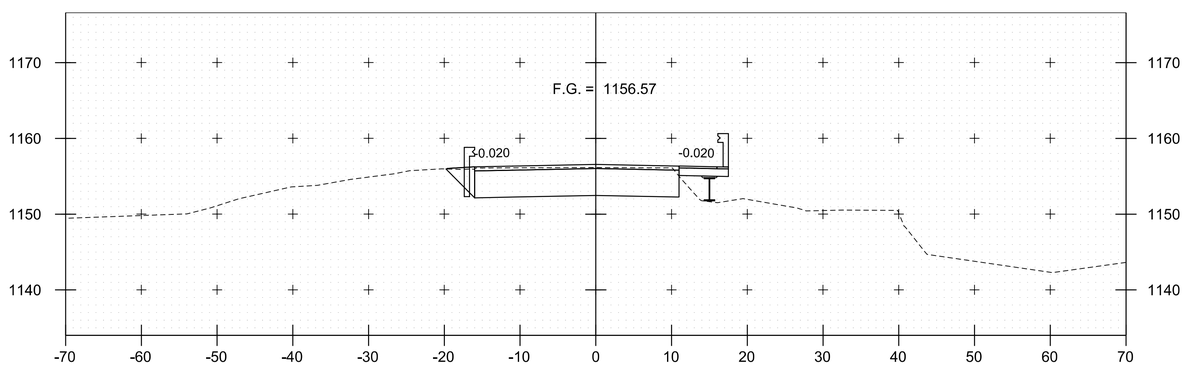
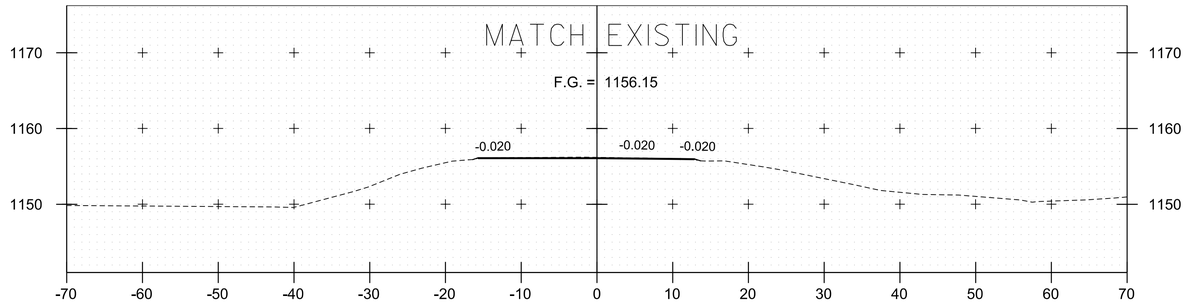


201+00

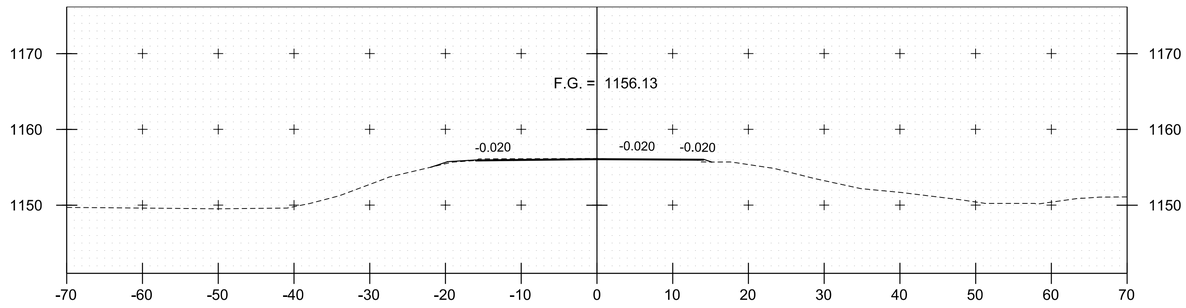
PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)

FILE NAME: sl8b007xs.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: K. LIHIC
DESIGNED BY: K. LIHIC	CHECKED BY: F. BARROWS
MAINLINE CROSS SECTIONS 2	SHEET 26 OF 29



202+25

END APPROACH



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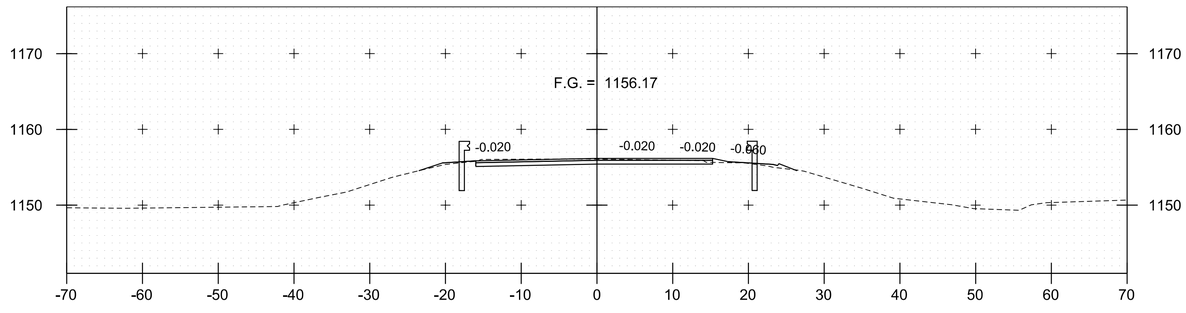


201+75

END PROJECT

PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007xs.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. MCCARTHY	DRAWN BY: K. LIHIC
DESIGNED BY: K. LIHIC	CHECKED BY: F. BARROWS
MAINLINE CROSS SECTIONS 3	SHEET 27 OF 29

VAOT LOW GROW/FINE FESCUE MIX						
	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
38%	57	95	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
37.5%	22.5	45	CREEPING RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.

2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.

3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.

5. 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.

6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.

7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)

REVISIONS	
JANUARY 12, 2015	WHF

PROJECT NAME: PLYMOUTH
PROJECT NUMBER: STP DECK(52)

FILE NAME: sl8b007epsc.dgn
PROJECT LEADER: J.B. McCARTHY
DESIGNED BY: R. PELLETT
EPSC DETAIL

PLOT DATE: 12/12/2022
DRAWN BY: R. PELLETT
CHECKED BY: F. BARROWS
SHEET 28 OF 29

CONSTRUCT DRIVE:

STA 198+83.50 - 199+13.00 RT
(4' PAVED APRON)

REMOVE SIGNS:

STA 199+54.00 RT
STA 200+95.00 LT

WATERBORNE 4 INCH WHITE LINE:

STA 198+75.00 - STA 202+25.00 LT & RT

WATERBORNE 4 INCH YELLOW LINE:

STA 198+75.00 - STA 202+25.00 LT & RT

TRAFFIC SIGN, TYPE A:

STA 199+94.00 RT (VD-701)
STA 200+63.00 LT (VD-700)
STA 200+63.00 LT (VD-701)

DELINEATOR WITH STEEL POST:

STA 198+56.00 LT (GREEN)
STA 199+14.00 RT (BLUE)
STA 201+85.00 LT (BLUE)
STA 201+71.00 RT (GREEN)

N/F
DUMAS, DANIEL

P
L

APPROX. EXISTING R.O.W.

4X4 CONCRETE BOUNDRY MARKER 18" BG

BLACK RIVER
FLOW

N/F
PINGREE, RODNEY I.
& KATHIE L.

4X4 CONCRETE BOUNDRY MARKER 18" BG

APPROX. EXISTING R.O.W.

GUY WIRE

GUY WIRE

HVCTRL 2

COMB 242 34

HVCTRL 101

CZ

CZ

COMB 243 33

VT ROUTE 100
TO LUDLOW

199+00

200+00

201+00

202+00

VT ROUTE 100
TO BRIDGEWATER

HVCTRL 3

COMB 241 4001F 35

BEGIN APPROACH
STA 198+75.00

FIELD DRIVE

BEGIN PROJECT
STA 199+25.00

ABANDONED

GUY WIRE

COMB 4001 17

BEGIN BRIDGE
STA 200+00.00

END BRIDGE
STA 200+89.00

COMB 4001 16

GUY WIRE

HVCTRL 100

ABANDONED

END PROJECT
STA 201+75.00

END APPROACH
STA 202+25.00

WOOD FENCE

1" IRON ROD UP 2"

N/F
RUTLEDGE, KAREN
AND MICHAEL

APPROX. EXISTING R.O.W.

P
L

N/F
SMYTH, GERARD

4X4 CONCRETE BOUNDRY MARKER 18" BG

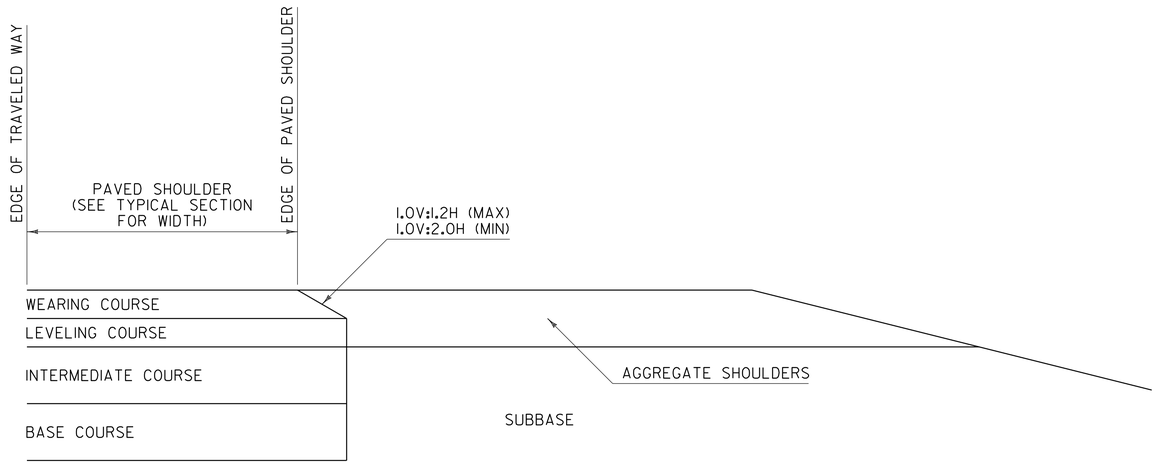
APPROX. EXISTING R.O.W.

VT STATE PLANE GRID

N

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

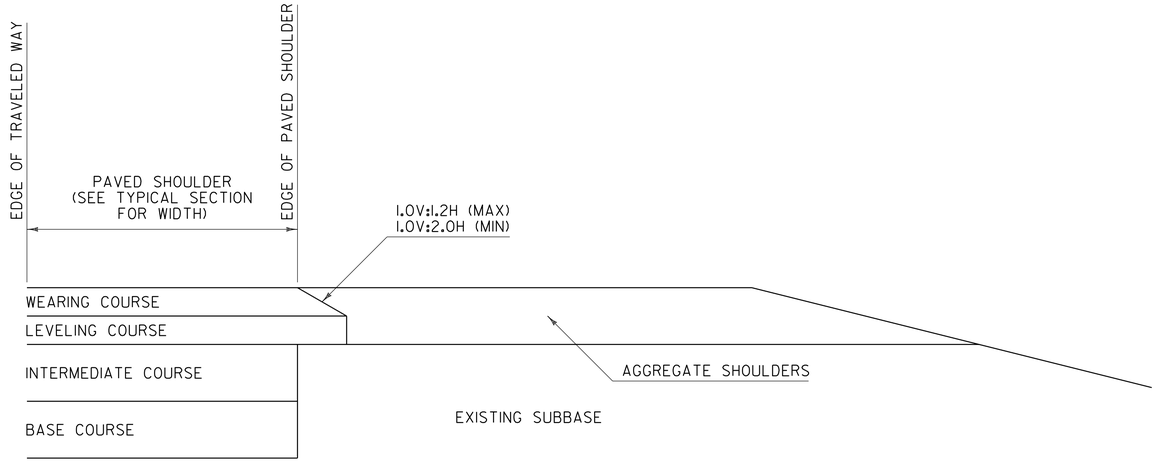
PROJECT NAME:	PLYMOUTH
PROJECT NUMBER:	STP DECK(52)
FILE NAME: sl8b007row.dgn	PLOT DATE: 12/12/2022
PROJECT LEADER: J.B. McCARTHY	DRAWN BY: R. PELLETT
DESIGNED BY: F. BARROWS	CHECKED BY: F. BARROWS
R.O.W. LAYOUT SHEET	SHEET 29 OF 29



SAFETY EDGE DETAIL
FOR PAVING BELOW WEARING COURSE

NOTES:

1. THIS DETAIL IS INTENDED FOR WHEN PAVING EXTENDS BELOW THE WEARING COURSE.
2. PRIOR TO PLACEMENT OF THE LEVELING AND/OR WEARING COURSE, THE SUBBASE LOCATED BENEATH THE AGGREGATE SHOULDERS SHALL BE PREPARED FLUSH WITH THE BOTTOM OF THE LEVELING COURSE.
3. BASE COURSE LIMITS MAY VARY, SEE TYPICAL SECTIONS FOR WIDTH.



SAFETY EDGE DETAIL
FOR PAVING WEARING COURSE ONLY

NOTES:

1. THIS DETAIL IS INTENDED FOR WHEN ONLY THE LEVELING AND/OR WEARING COURSE IS TO BE PLACED.
2. PAVEMENT COURSES MAY VARY, SEE TYPICAL SECTIONS FOR ACTUAL PAVEMENT COURSES REQUIRED.

SAFETY EDGE WIDTH BASED ON WEARING COURSE THICKNESS AND A 1V:1.6H SLOPE	
WEARING COURSE THICKNESS (INCHES)	NOMINAL SAFETY EDGE WIDTH (INCHES)
1.25	2.000
1.50	2.375
1.75	2.750
2.00	3.125
2.25	3.500
2.50	4.000

GENERAL NOTES:

1. PLACEMENT OF THE WEARING COURSE SHALL INCLUDE THE SAFETY EDGE, UNLESS THE FOLLOWING APPLIES:
   - A. THE ADJACENT SLOPE IS STEEPER THAN THE SAFETY EDGE.
   - B. THE EDGE OF PAVEMENT BEING PLACED ABUTS BOUND MATERIAL.
   - C. VEHICLES ARE RESTRICTED FROM LEAVING THE PAVED SURFACE (EXAMPLE: GUARDRAIL).
2. THE SAFETY EDGE SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE SLOPE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.
3. THE SAFETY EDGE SHALL NOT BE CONSIDERED PART OF THE PAVED SHOULDER.
4. THIS WORK SHALL BE INCIDENTAL TO THE RESPECTIVE BITUMINOUS CONCRETE PAVEMENT ITEM.

REV.	DATE	DESCRIPTION
0	MAR. 29, 2016	ORIGINAL APPROVAL
1	JAN. 5, 2018	ANNOTATION CORRECTIONS

OTHER DETAILS REQUIRED: NONE

DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN

SAFETY EDGE DETAILS

VTrans Working to Get You There
VERMONT AGENCY OF TRANSPORTATION

HIGHWAY SAFETY & DESIGN DETAIL

HSD-400.01