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Finance & Administration*
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May 20, 2025

Co3237 Poultney BF 0145(13)

ADDENDUM #1

Bidders:

Changes have been made to the documents located on the Bid Opportunity website as noted below:

REVISED:

- Invitation for Bids, and Proposal to extend Bid Opening to June 13, 2025, and update the Schedule of Items.
- Special Provision Pages 1 and 6.
- Plan sheets 3, 10, 11, 44-52, 57, 63, 65, 79-82, 93, 94, 96, and 97.
- New Impact Plans shall replace Pages 136 to 171 in the Proposal.

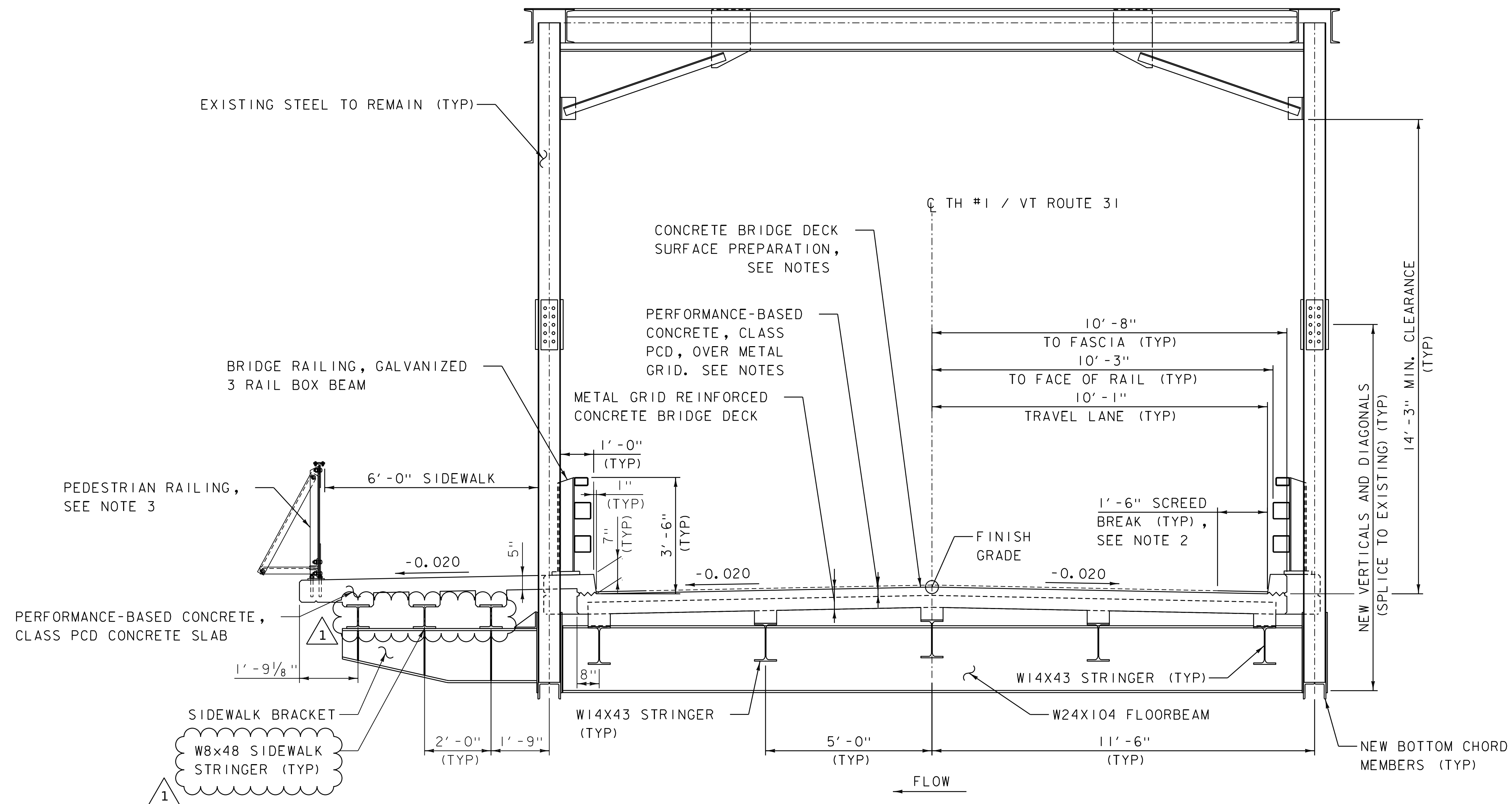
ADDED: None.

DELETED: None.

VTrans Mission and Vision

Through excellent customer service, provide for the safe and efficient movement of people and goods.
A safe, reliable, and multimodal transportation system that grows the economy, is affordable to use and operate, and serves vulnerable populations.





TRUSS TYPICAL SECTION

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

NOTES:

1. IN THE FINAL CONDITION, A MINIMUM OF 3 INCHES OF CONCRETE COVER SHALL BE PROVIDED ABOVE THE TOP MAT OF REINFORCING STEEL OR THE TOP OF THE METAL GRID DECK COMPONENTS, WHICHEVER IS HIGHER. THE CONCRETE DECK SHALL BE OVERPOURED BY 3/4" TO BE REMOVED PER CONCRETE BRIDGE DECK SURFACE PREPARATION.
2. FINISH SCREED BREAK AREA TO FINAL CONCRETE THICKNESS OR TAPER FROM OVERPOURED THICKNESS TO FINAL THICKNESS AT THE FACE OF CURB. IF AREA IS TAPERED, THE TAPER SHALL BE REMOVED BY GRINDING TO ACHIEVE THE FINAL CONCRETE THICKNESS.
3. PEDESTRIAN RAILING SHALL BE PAID FOR UNDER ITEM 526.6100 "BRIDGE RAILING, METAL TRUSS BRIDGE"

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	UPDATED SIDEWALK STRINGERS TO W8X48	MSWT



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(I3)

FILE NAME: z2lj64typ.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
TYPICAL BRIDGE SECTION

PLOT DATE: 19-MAY-2025
DRAWN BY: R.H. BARNES
CHECKED BY: J.D. KEENER
SHEET 3 OF 115

TRUSS REHABILITATION NOTES - CONTINUED

38. THE REPAIRS TO THE TRUSS INDICATED IN THE PLANS ARE A MINIMUM REQUIREMENT. ANY ADDITIONAL AREAS OF DETERIORATION IDENTIFIED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE VTRANS PROJECT MANAGER FOR REVIEW AND CONSIDERATION. UNLESS OTHERWISE SPECIFIED WITHIN THESE PLANS, OR AS DIRECTED BY THE ENGINEER, MEMBERS SHALL BE REPLACED IN KIND TO THE EXTENT FEASIBLE WITH MEMBERS HAVING SIMILAR GEOMETRY AND STRUCTURAL SECTION PROPERTIES.
39. ALL OF THE EXISTING STEEL TO REMAIN IN THE STRUCTURE SHALL BE CLEANED TO BARE METAL AND REPAINTED. WHERE NEW STEEL IS TO BE CONNECTED TO EXISTING STEEL, OR EXISTING STEEL CONNECTIONS THAT HAVE BEEN DISSEMBLED ARE TO BE RECONNECTED, THE EXISTING STEEL SHALL BE CLEANED AND PRIMED BEFORE ATTACHING NEW STEEL AND PREPARED TO CLASS B FAYING SURFACE REQUIREMENTS UNLESS OTHERWISE NOTED WITHIN THESE PLANS. ALL CLEANING OF EXISTING STEEL SHALL BE PAID FOR UNDER ITEM 511.1001 “REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT, TYPE I”. ALL COSTS FOR PAINTING OF EXISTING STEEL SHALL BE PAID FOR UNDER ITEM 513.1030 “FIELD PAINTING, THREE COAT SYSTEM”.
40. RIVET REMOVAL AND REPLACEMENT AS REQUIRED ON MEMBERS TO REMAIN SHALL MEET THE REQUIREMENTS OF SECTION 506.19. PAYMENT FOR ALL COSTS ASSOCIATED WITH RIVET REMOVAL AND REPLACEMENT WILL NOT BE PAID FOR SEPERATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE ITEM 529.2000 “PARTIAL REMOVAL OF STRUCTURE”.
- STRUCTURAL STEEL
41. ALL NEW STRUCTURAL STEEL PAID FOR UNDER ITEM 506.5000, “STRUCTURAL STEEL, ROLLED BEAM”, AND ITEM 506.5700, “STRUCTURAL STEEL, TRUSS” SHALL CONFORM TO AASHTO M 270 GRADE 50.
42. ITEM 506.5000 “STRUCTURAL STEEL, ROLLED BEAM” WILL INCLUDE THE FOLLOWING MEMBERS AND ASSOCIATED CONNECTIONS:

A. REPLACEMENT OF ALL FLOORBEAMS AND STRINGERS

B. REPLACEMENT OF SIDEWALK STRINGERS

C. REPLACEMENT OF ALL LOWER LATERAL BRACING MEMBERS

D. ALL ANGLES AND CONNECTION PLATES REQUIRED FOR CONNECTIONS OF THE FLOOR SYSTEM AND LOWER LATERAL BRACING
43. ALL STRUCTURAL STEEL PAID FOR UNDER ITEM 506.5000 “STRUCTURAL STEEL, ROLLED BEAM” SHALL BE GALVANIZED ACCORDING TO SUBSECTION 506.22.
44. ITEM 506.5700 “STRUCTURAL STEEL, TRUSS” SHALL INCLUDE THE FOLLOWING:

E. REPLACEMENT OF ALL BOTTOM CHORD MEMBERS

F. REPLACEMENT OF ALL BOTTOM CHORD GUSSET PLATES

G. PARTIAL OR FULL REPLACEMENT OF ALL VERTICAL AND DIAGONAL MEMBERS AS SPECIFIED WITHIN THESE PLANS

H. REPLACEMENT OF ALL SIDEWALK BRACKETS

I. PLATES USED FOR THE VERTICAL AND DIAGONAL TRUSS SPLICES

J. ALL ANGLES AND CONNECTION PLATES REQUIRED FOR TRUSS VERTICAL, DIAGONAL, AND BOTTOM CHORD MEMBERS

K. ANY ADDITIONAL REPAIRS TO TRUSS MEMBERS THAT ARE NOT SPECIFICALLY CALLED OUT IN THE PLANS, BUT IDENTIFIED BY THE ENGINEER TO BE REPAIRED OR REPLACED DURING CONSTRUCTION
45. ALL STRUCTURAL STEEL PAID FOR UNDER ITEM 506.5700 “STRUCTURAL STEEL, TRUSS”, AND ITEM 525.6100 “BRIDGE RAILING, METAL TRUSS BRIDGE” SHALL BE SHOP PRIMED PER SUBSECTION 506.22.
46. THE INTERMEDIATE AND TOP COATS OF THE PAINT SYSTEM SHALL BE APPLIED TO ALL OF THE NEW AND EXISTING STRUCTURAL STEEL IN THE TRUSS SPAN ACCORDING TO SECTION 513. APPLICATION OF THE INTERMEDIATE AND TOP COATS SHALL OCCUR AFTER ALL OF THE STRUCTURAL STEEL HAS BEEN ASSEMBLED IN THE FIELD. ALL GALVANIZED MEMBERS LISTED AS PART OF NOTE 40, ARE TO REMAIN UNPAINTED.
47. THE TOP COAT OF PAINT FOR ALL STEEL SHALL BE GREEN, FEDERAL CHIP NUMBER 14062.
48. UNLESS OTHERWISE NOTED ALL BOLTED CONNECTIONS SHALL BE MADE USING ¾” DIAMETER HEX HEAD BOLTS, NUTS, WASHERS AND DIRECT TENSION INDICATORS (DTI) MEETING THE REQUIREMENTS OF SUBSECTION 714.05 AND 714.12.

49. UNLESS OTHERWISE NOTED, THE FAYING SURFACES OF BOLTED CONNECTIONS BETWEEN GALVANIZED FLOOR SYSTEM MEMBERS SHALL HAVE A CLASS C SLIP COEFFICIENT OF NOT LESS THAN 0.30 AS SPECIFIED BY AASHTO.

MICROPILES

50. ANCHOR PLATE SHALL MEET THE REQUIREMENTS OF SECTION 714.03.
51. THE MICROPILES ARE TO BE INSTALLED IN THE AREA OF THE EXISTING BRIDGE FOUNDATION WHICH INCLUDES TIMBER PILES. THE RECORD PLANS HAVE BEEN PROVIDED AS AN INFORMATIONAL DOCUMENT, SEE SPECIAL PROVISIONS FOR MORE INFORMATION. THE CONTRACTOR SHALL MOBILIZE THE NECESSARY EQUIPMENT TO DRILL THROUGH TIMBER PILES, IF THEY ARE ENCOUNTERED, WITHOUT ADVERSELY IMPACTING THE EXISTING SUBSURFACE CONDITIONS. IF THE ENGINEER DETERMINES THAT AN EXISTING TIMBER PILE IS ENCOUNTERED WHILE ADVANCING A MICROPILE, PAYMENT FOR THE DEPTH NECESSARY TO ADVANCE THE MICROPILE THROUGH THE EXISTING TIMBER PILE WILL BE MADE UNDER ITEM 547.2000 “MICROPILE OBSTRUCTION DRILLING AND REMOVAL.”
52. A MINIMUM OF ONE VERIFICATION LOAD TEST WILL BE REQUIRED TO BE PERFORMED ON A SACRIFICIAL MICROPILE AS INDICATED IN THE PLANS.
53. VERIFICATION MICROPILE SHALL BE SUBJECTED TO THE LOADING SCHEDULE AS NOTED IN THE SPECIFICATIONS AND TO THE DESIGN LOAD AS NOTED IN THE MICROPILE TABLE PROVIDED IN THE PLANS. THE VERIFICATION TENSION LOAD TEST SHALL HAVE A BOND ZONE LENGTH OF 7.5 FEET, AS NOTED IN THE VERIFICATION LOAD TEST PLAN. A PVC SLEEVE SHALL BE PLACED AROUND THE THREADED REINFORCING STEEL TO ISOLATE THE THREADED REINFORCING STEEL FROM THE GROUT THROUGHOUT THE UNBONDED LENGTH.
54. THE GROUT WITHIN A MICROPILE MUST ATTAIN THE MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI PRIOR TO PERFORMING THE LOAD TESTING.
55. CONSTRUCTION OF PRODUCTION MICROPILES SHALL NOT BEGIN UNTIL THE VERIFICATION LOAD TEST RESULTS HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER. THE ENGINEER WILL PROVIDE A RESPONSE TO THE CONTRACTOR WITHIN 3 WORKING DAYS AFTER RECEIPT OF THE WRITTEN SUMMARY OF THE VERIFICATION LOAD TEST RESULTS.
56. TENSION PROOF LOAD TESTS SHALL BE PERFORMED ON A MINIMUM OF TWO(2) PRODUCTION MICROPILES AT LOCATIONS APPROVED BY THE ENGINEER.
57. ESTIMATED TOP OF BEDROCK INDICATED WITHIN THESE PLANS, MIGHT VARY AND SHALL BE CONFIRMED BY THE ENGINEER. APPROXIMATE TOP OF BEDROCK ELEVATIONS PROVIDED ARE ESTIMATED BASED ON BORINGS AT OR NEAR EACH PROPOSED SUBSTRUCTURE LOCATION, HOWEVER ACTUAL TOP OF BEDROCK ELEVATIONS AT EACH MICROPILE LOCATION MAY VARY. FINAL MICROPILE LENGTH SHALL BE ADJUSTED BASED ON ACTUAL TOP OF BEDROCK ELEVATION TO ENSURE REQUIRED BOND ZONE LENGTH IS ACHIEVED.
58. MICROPILES SHALL NOT BE INSTALLED CLOSER THAN 10 FEET FROM AN ADJACENT MICROPILE WHICH HAS BEEN GROUTED FOR A PERIOD OF LESS THAN 24 HOURS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
59. THE VERIFICATION PILE SHALL BE REMOVED OR ABANDONED SUCH THAT THE TOP OF THE MICROPILE IS A MINIMUM OF 3 FEET BELOW THE FINAL GROUND SURFACE.

PREFABRICATED BRIDGE DECK

60. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A PREFABRICATED BRIDGE DECK IN ACCORDANCE WITH SECTION 550. PAYMENT FOR ALL COSTS ASSOCIATED WITH THE DESIGN AND INSTALLATION OF THE PREFABRICATED BRIDGE DECK WILL BE MADE UNDER ITEM 550.1000 “METAL GRID REINFORCED CONCRETE BRIDGE DECK”.
61. THE PREFABRICATED BRIDGE DECK SHALL BE DESIGNED TO THE REQUIREMENTS IN SECTION 550, AND THE FOLLOWING:

L. TOTAL HEIGHT NOT TO EXCEED = 7.5 INCHES

M. MAXIMUM WEIGHT = 75 PSF

TOTAL HEIGHT DETERMINED FROM FINISHED GRADE TO BOTTOM OF GRID DECK, NOT INCLUDING HAUNCH. CALCULATION OF MAXIMUM WEIGHT SHALL INCLUDE METAL GRID REINFORCEMENT, REINFORCING STEEL, AND CONCRETE SPECIFIED IN THE PREFABRICATED BRIDGE DECK SYSTEM.

62. PAYMENT FOR ALL CONCRETE FOR THE BRIDGE DECK PLACED BELOW THE HORIZONTAL CONSTRUCTION JOINTS BETWEEN THE BRIDGE DECK AND CURBS WILL BE MADE UNDER ITEM 550.1000 “METAL GRID REINFORCED CONCRETE BRIDGE DECK”. PAYMENT FOR ALL CONCRETE PLACED FOR THE SIDEWALK AND CURBS ON THE BRIDGE ABOVE THE HORIZONTAL CONSTRUCTION JOINTS WILL BE MADE UNDER ITEM 501.3700 “PERFORMANCE-BASED CONCRETE, CLASS PCD”.
63. PAYMENT FOR ALL SHEAR CONNECTORS INSTALLED ON FLOORBEAMS AND STRINGERS SHALL BE MADE UNDER ITEM 550.1000 “METAL GRID REINFORCED CONCRETE BRIDGE DECK”. PAYMENT FOR ALL SHEAR CONNECTORS INSTALLED ON SIDEWALK STRINGERS SHALL BE MADE UNDER ITEM 508.1500 “SHEAR CONNECTORS”.

CONCRETE

64. CONCRETE FOR THE RESPECTIVE STRUCTURAL ELEMENTS SHALL BE AS SPECIFIED IN THE TABLE ON THIS SHEET.
65. JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS, STD. S-500, OR AS DIRECTED BY THE ENGINEER.
66. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL.
67. ITEM 514.1000, “WATER REPELLENT, SILANE”, SHALL BE TYPE II SILANE MEETING THE REQUIREMENTS OF SUBSECTION 726.10 AND SHALL BE APPLIED TO ALL EXPOSED CONCRETE ON THE BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES AND SHALL BE INSTALLED BEFORE THE APPROACHES ARE PAVED. ALL PAINTED SURFACES SHALL BE PROTECTED FROM SILANE OVERSPRAY.

REINFORCING STEEL

68. REINFORCING STEEL FOR THE RESPECTIVE STRUCTURAL ELEMENTS SHALL BE AS SPECIFIED IN THE TABLE ON THIS SHEET.
69. REINFORCING BARS AND THEIR DESIGNATIONS SHALL BE AS FOLLOWS:

A. BARS MARKED WITHOUT A SUFFIX SHALL BE ITEM 507.1100, “REINFORCING STEEL, LEVEL I”.

B. BARS MARKED WITHOUT A SUFFIX AND WITH AN “E” IN THEIR PREFIX SHALL BE ITEM 507.1100, “REINFORCING STEEL, LEVEL I (EPOXY)”.

C. BARS MARKED WITH A “.2” IN THEIR SUFFIX SHALL BE ITEM 507.1200, “REINFORCING STEEL, LEVEL II”.
70. MINIMUM CLEAR COVER SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION	CLEAR COVER (INCHES)
ABUTMENT FOOTINGS	3.0
BACK FACES OF WALLS AGAINST EARTH	2.0
TOP SURFACE OF DECK	3.0
BOTTOM SURFACE OF DECK	1.5
ELSEWHERE, UNLESS OTHERWISE NOTED	3.0
71. TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE REINFORCING STEEL SCHEDULE. ALL COSTS ASSOCIATED WITH PROVIDING BARS FOR TESTING WILL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE SECTION 507 ITEM.
72. LAP LENGTHS PROVIDED ARE THE MINIMUM REQUIRED. EXCEPT WHERE NOTED AS CUT TO FIT, REINFORCING BAR LENGTHS ARE DETAILED FOR THE LAP TO VARY AT SLOPED AND STEPPED COMPONENTS.
73. PAYMENT FOR ALL REINFORCING STEEL SPECIFIED BY THE PREFABRICATED BRIDGE DECK DESIGN WILL BE MADE UNDER ITEM 550.1000 “METAL GRID REINFORCED CONCRETE BRIDGE DECK. PAYMENT FOR ALL REINFORCING STEEL DETAILED WITHIN THESE PLANS FOR THE BRIDGE DECK, CURB, AND SIDEWALK WILL BE MADE UNDER ITEM 507.1200 “REINFORCING STEEL, LEVEL II”.

FINAL PAY QUANTITY ITEMS

74. THE FOLLOWING PAY ITEMS HAVE BEEN DESIGNATED AS FINAL PAY QUANTITY OR FPQ ITEMS:

A. ITEM 501.3700, “PERFORMANCE-BASED CONCRETE, CLASS PCD”

B. ITEM 501.3800, “PERFORMANCE-BASED CONCRETE, CLASS PCS”

C. ITEM 506.5000, “STRUCTURAL STEEL, ROLLED BEAM”

D. ITEM 507.1100, “REINFORCING STEEL, LEVEL I”

E. ITEM 507.1100, “REINFORCING STEEL, LEVEL I (EPOXY COATED)”

F. ITEM 507.1200, “REINFORCING STEEL, LEVEL II”

G. ITEM 525.3130, “BRIDGE RAILING, GALV. 3 RAIL BOX BEAM”

H. ITEM 525.6100, “BRIDGE RAILING, METAL TRUSS BRIDGE”

I. ITEM 531.1800, “BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD W/EXT. LOAD PLATES”

J. ITEM 550.1000, “METAL GRID REINFORCED CONCRETE BRIDGE DECK”

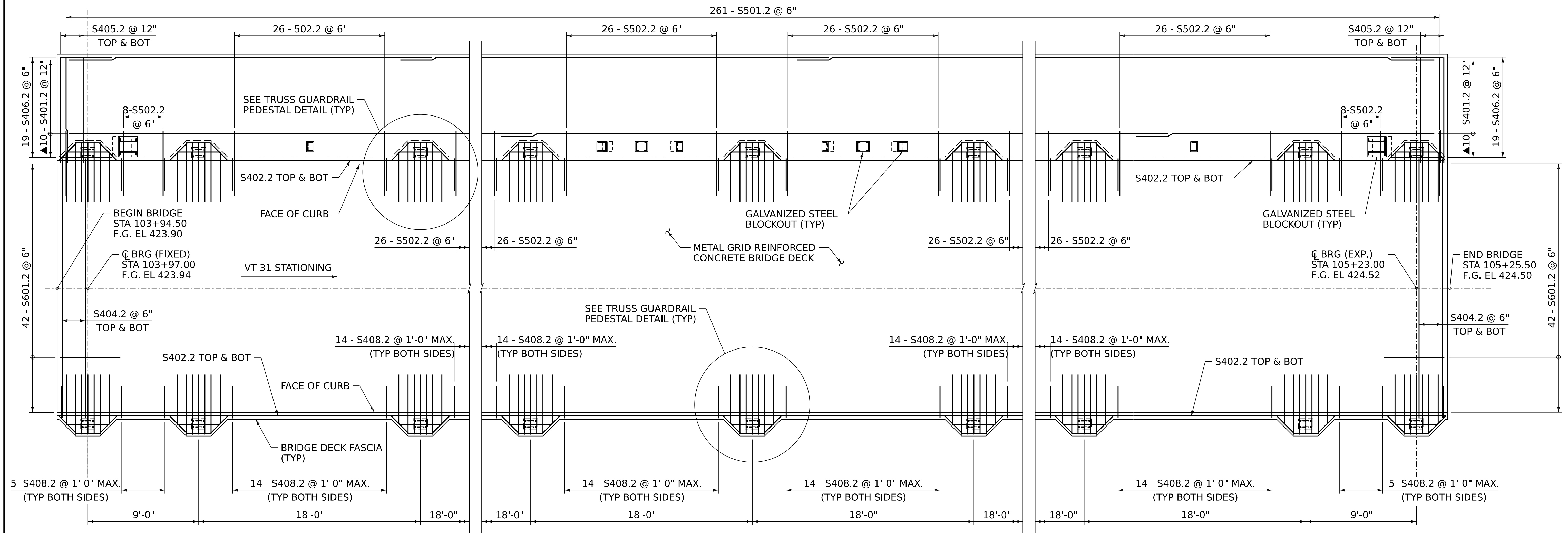
K. ITEM 516.1000001, “BRIDGE EXPANSION JOINT, PRE-COMPRESSED”

CONCRETE		REINFORCING STEEL	
STRUCTURAL ELEMENT:	CONTRACT ITEM:	TO MEET THE REQUIREMENTS FOR:	PAYMENT TO BE INCLUDED IN:
<div><div>–</div>ABUTMENTS (BELOW BRIDGE SEAT)</div> <div><div>–</div>WINGWALLS (BELOW BRIDGE SEAT)</div>	ITEM 501.3800, “PERFORMANCE-BASED CONCRETE, CLASS PCS”.	REINFORCING STEEL, LEVEL I	ITEM 507.1100, “REINFORCING STEEL, LEVEL I
<div><div>–</div>ABUTMENTS (ABOVE BRIDGE SEAT)</div> <div><div>–</div>WINGWALLS (ABOVE BRIDGE SEAT)</div> <div><div>–</div>APPROACH SLABS</div>	ITEM 501.3800, “PERFORMANCE-BASED CONCRETE, CLASS PCS”.	REINFORCING STEEL, LEVEL I (EPOXY COATED)	ITEM 507.1100, “REINFORCING STEEL, LEVEL I (EPOXY COATED)”
<div><div>–</div>SIDEWALK ON BRIDGE</div> <div><div>–</div>DECK CURBS AND BRIDGE RAIL POST BUMP OUTS (ABOVE HORIZ. CONSTRUCTION JOINTS)</div>	ITEM 501.3700, “PERFORMANCE-BASED CONCRETE, CLASS PCD”.	REINFORCING STEEL, LEVEL II	ITEM 507.1200, “REINFORCING STEEL, LEVEL II”
<div><div>–</div>BRIDGE DECK</div> <div><div>–</div>DECK OVERHANGS AND BRIDGE RAIL POST BUMP OUTS (BELOW HORIZ. CONSTRUCTION JOINT)</div>	ITEM 550.1000 “METAL GRID REINFORCED CONCRETE BRIDGE DECK”.	PREFABRICATED BRIDGE DECK	ITEM 550.1000 “METAL GRID REINFORCED CONCRETE BRIDGE DECK” ITEM 507.1200, “REINFORCING STEEL, LEVEL II”

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	ADDED NOTES	NAT
		PROJECT NAME: POULTNEY PROJECT NUMBER: BF 0145(I3)		
		FILE NAME: z21j64prn.dgn PROJECT LEADER: J.D. KEENER DESIGNED BY: VHB PROJECT NOTES (2 OF 2)		
		PLOT DATE: 19-MAY-2025 DRAWN BY: T.D. BURT CHECKED BY: J.D. KEENER SHEET 10 OF 115		



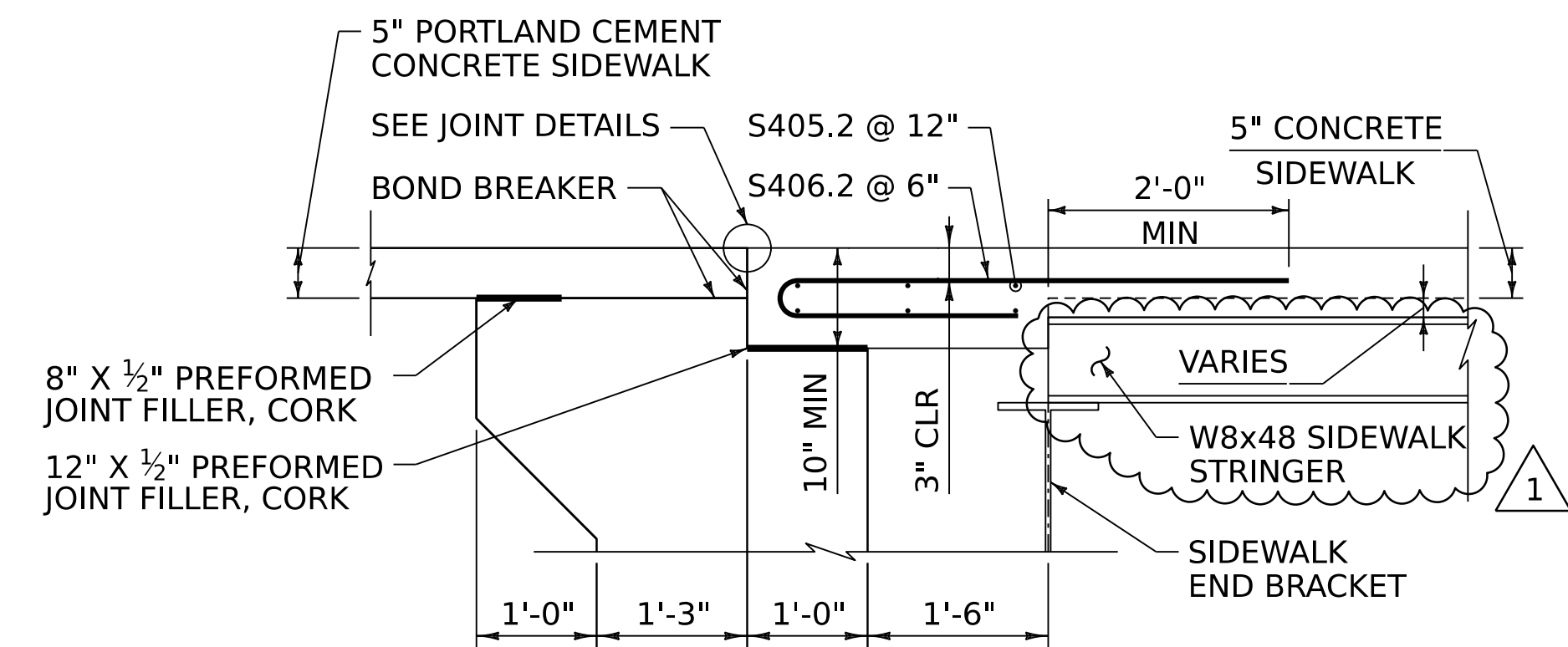
STATE OF VERMONT AGENCY OF TRANSPORTATION												QUANTITY SHEET 1													
SUMMARY OF ESTIMATED QUANTITIES												TOTALS		DESCRIPTIONS						DETAILED SUMMARY OF QUANTITIES					
						1011 - ROADWAY	1031 - TRAINING	1041 - LANDSCAPING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS					
						1						1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.1000									
						1900						1900		CY	COMMON EXCAVATION	203.1500									
						500						500		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.2700									
						200						200		CY	EARTH BORROW	203.3000									
						440						440		CY	SAND BORROW	203.3100									
						1						1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.2200									
										770		770		CY	STRUCTURE EXCAVATION	204.2500									
										400		400		CY	GRANULAR BACKFILL FOR STRUCTURES	204.3000									
						280						280		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.1000									
										1		1		LS	CONSTRUCTION VIBRATION AND CRACK MONITORING	250.0100									
						1200						1200		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.3500									
						20						20		CY	AGGREGATE SURFACE COURSE	401.1000									
						50						50		TON	AGGREGATE SHOULDERS, RAP	402.1300									
						30						30		CWT	TACK COAT, EMULSIFIED ASPHALT	404.1100									
						360						360		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III	406.0230									
						270						270		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER III	406.0430									
						200						200		SY	BITUMINOUS CONCRETE PAVEMENT, NON-PAVER PLACED, TYPE IVS	406.3400									
						1						1		DL	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)	406.9100									
						1						1		DL	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)	406.9200									
										30		30		CY	PERFORMANCE-BASED CONCRETE, CLASS PCD	501.3700									
						360						360		CY	PERFORMANCE-BASED CONCRETE, CLASS PCS	501.3800									
						68700						68700		LB	STRUCTURAL STEEL, ROLLED BEAM	506.5000									
						44625						44625		LB	STRUCTURAL STEEL, TRUSS	506.5700									
						900						900		LB	STRUCTURAL STEEL	506.6000									
						9740						9740		LB	REINFORCING STEEL, LEVEL I (EPOXY COATED)	507.1100									
						15330						15330		LB	REINFORCING STEEL, LEVEL I	507.1100									
						8010						8010		LB	REINFORCING STEEL, LEVEL II	507.1200									
						1						1		LS	SHEAR CONNECTORS	508.1500									
						2650						2650		SF	CONCRETE BRIDGE DECK SURFACE PREPARATION	509.1500									
						1						1		LS	REMOVAL, CONTAINMENT, AND DISPOSAL OF LEAD PAINT, TYPE I	511.1001									
						1						1		LS	FIELD PAINTING STEEL, THREE COAT SYSTEM	513.1030									
						50						50		GAL	WATER REPELLENT, SILANE	514.1000									
						31						31		LF	BRIDGE EXPANSION JOINT, PRE-COMPRESSED	516.1000001									
						21						21		LF	JOINT SEALER, HOT POURED	524.1100									
						270						270		LF	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	525.3130									
						132						132		LF	BRIDGE RAILING, METAL TRUSS BRIDGE	525.6100									
						1						1		LS	ONE LANE TEMPORARY BRIDGE (4800 SF - EST)	528.1000									
						1						1		EACH	PARTIAL REMOVAL OF STRUCTURE	529.2000									
						4						4		EACH	BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD W/EXT. LOAD PLATES	531.1800									
										1300		1300		LF	MICROPILE, CASED	547.1000									
																		PROJECT NAME: POULTNEY PROJECT NUMBER: BF 0145(I3)							
																		FILE NAME: z2lj64qs.dgn PROJECT LEADER: J.D. KEENER DESIGNED BY: VHB QUANTITY SHEET (1 OF 3)				PLOT DATE: 5/19/2025 DRAWN BY: T.D. BURT CHECKED BY: J.D. KEENER SHEET II OF II5			
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION		BY																				
1	1	5/19/2025	REVISED ITEM 506.5000 QUANTITY		NAT																				



NOTE: SIDEWALK HAUNCH REINFORCEMENT NOT SHOWN.

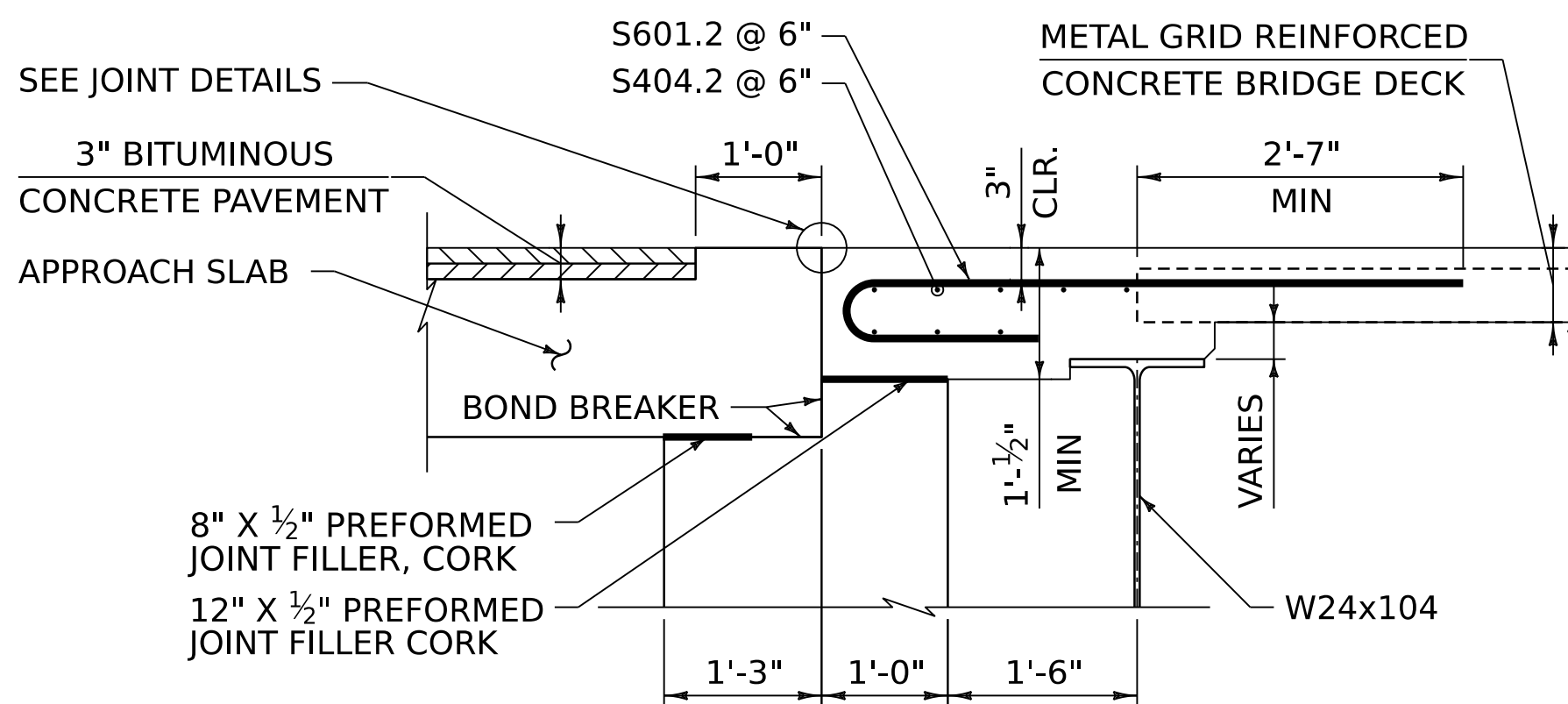
DECK PLAN

SCALE $\frac{1}{4}" = 1'-0"$



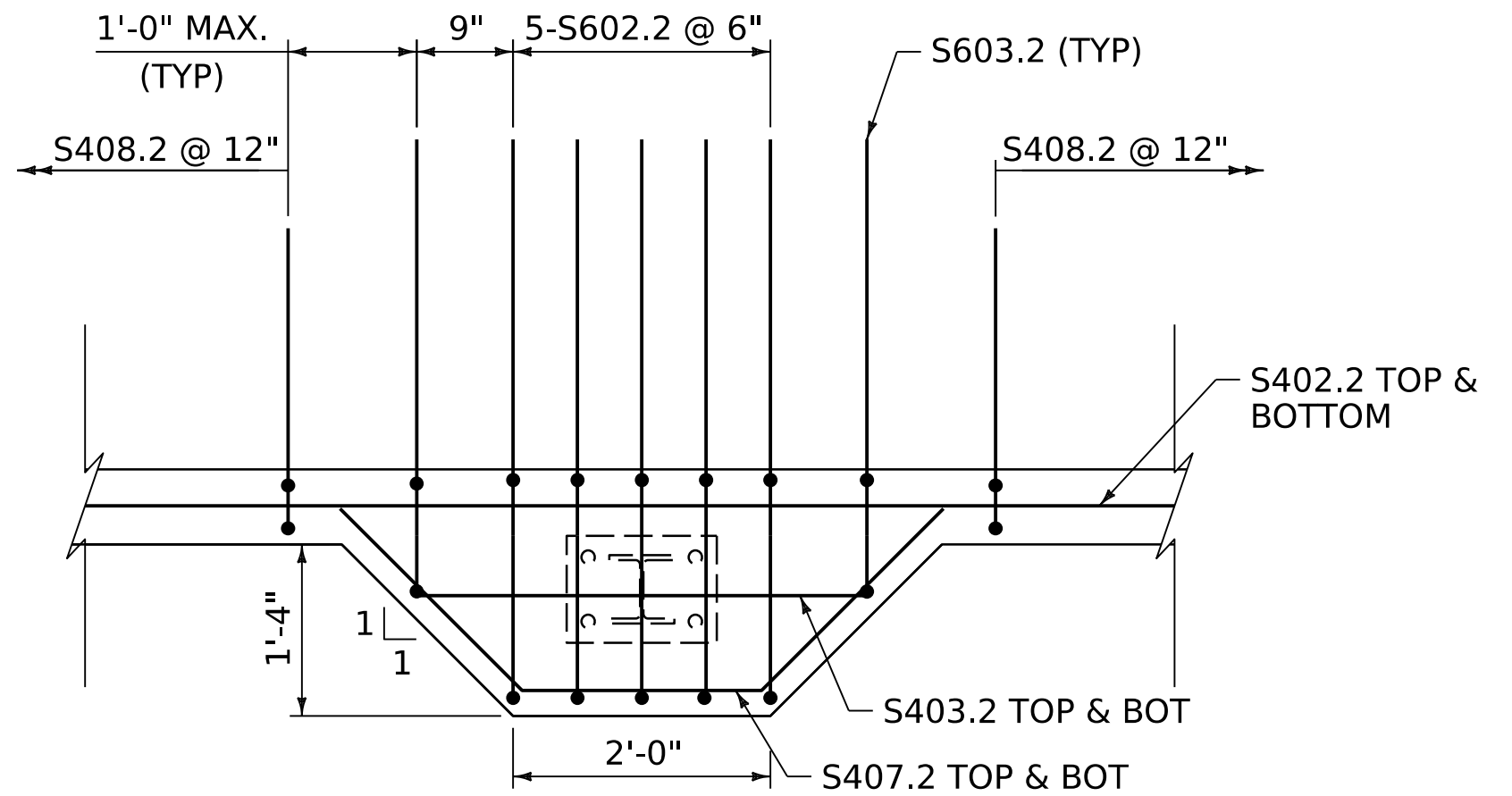
SIDEWALK END DETAIL

SCALE: $\frac{3}{4}" = 1'-0"$



DECK END DETAIL

SCALE: $\frac{3}{4}" = 1'-0"$



TRUSS GUARDRAIL PEDESTAL DETAIL

SCALE $\frac{3}{4}" = 1'-0"$

LEGEND:

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

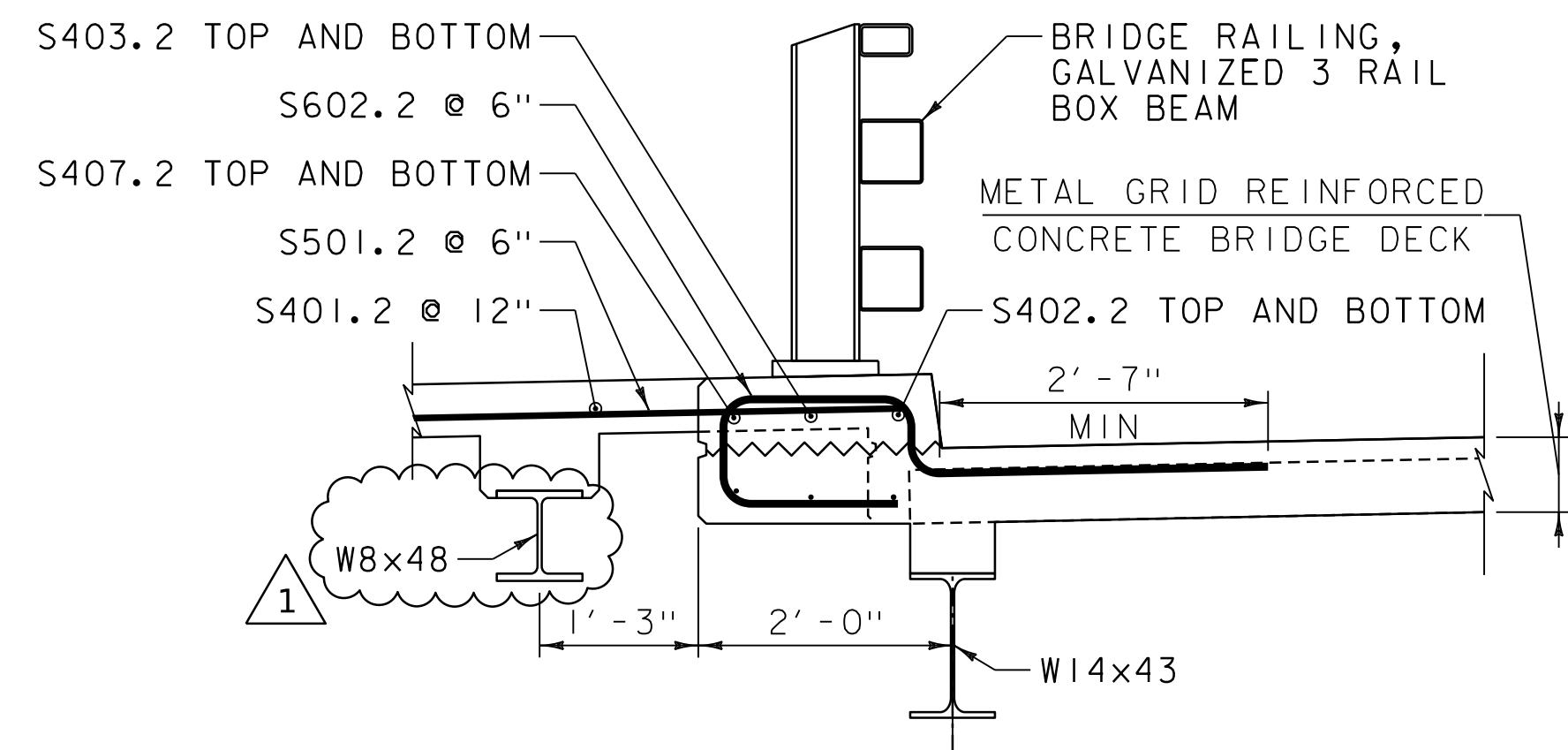
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	CHANGED SIDEWALK STRINGERS TO W8X48	MSWT



PROJECT NAME: POULTNEY
 PROJECT NUMBER: BF 0145(I3)

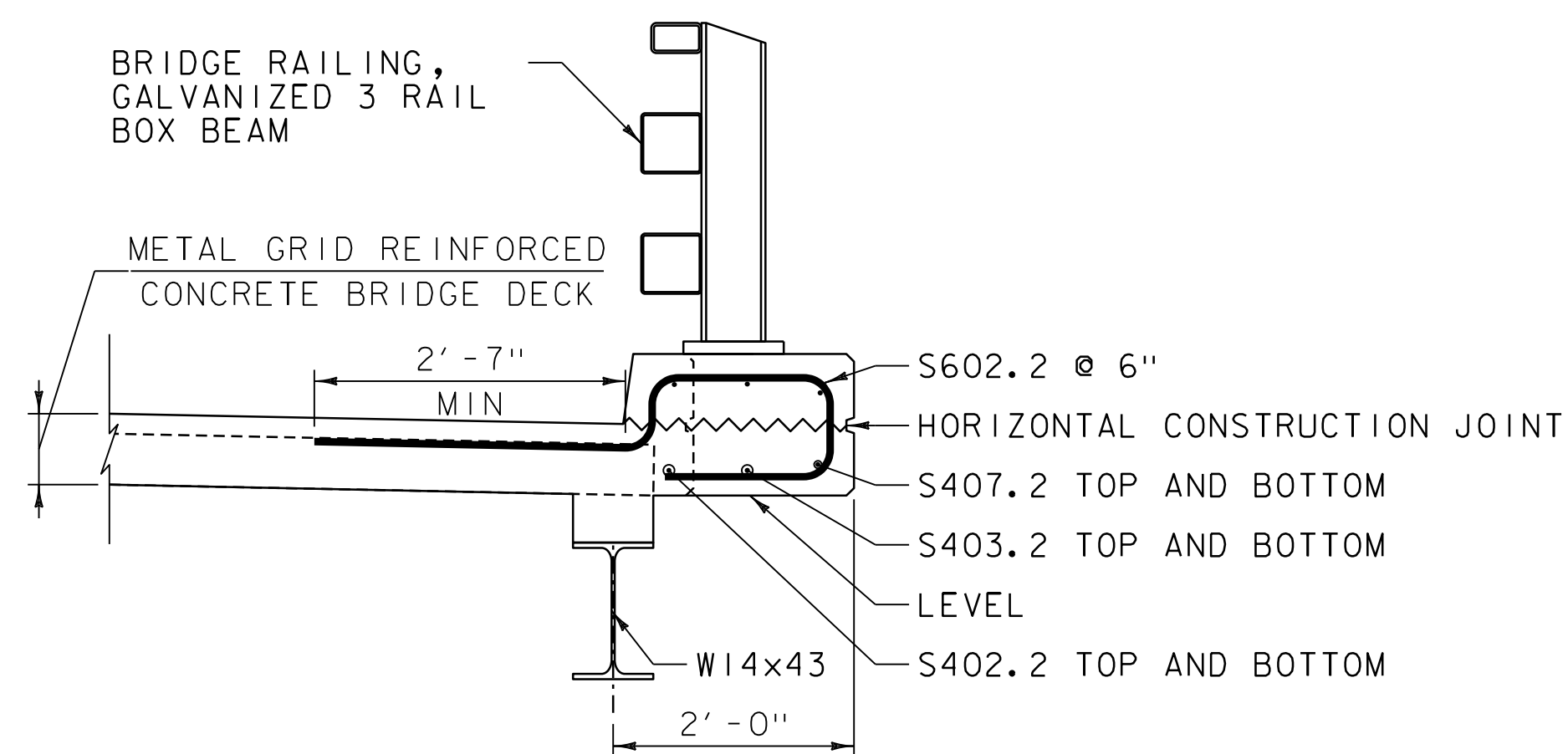
FILE NAME: z2lj64deck_det.dgn
 PROJECT LEADER: J.D. KEENER
 DESIGNED BY: M.S.W. THISTLE
 DECK PLAN

PLOT DATE: 5/19/2025
 DRAWN BY: N.A. TRUSLOW
 CHECKED BY: J.D. KEENER
 SHEET 44 OF 115



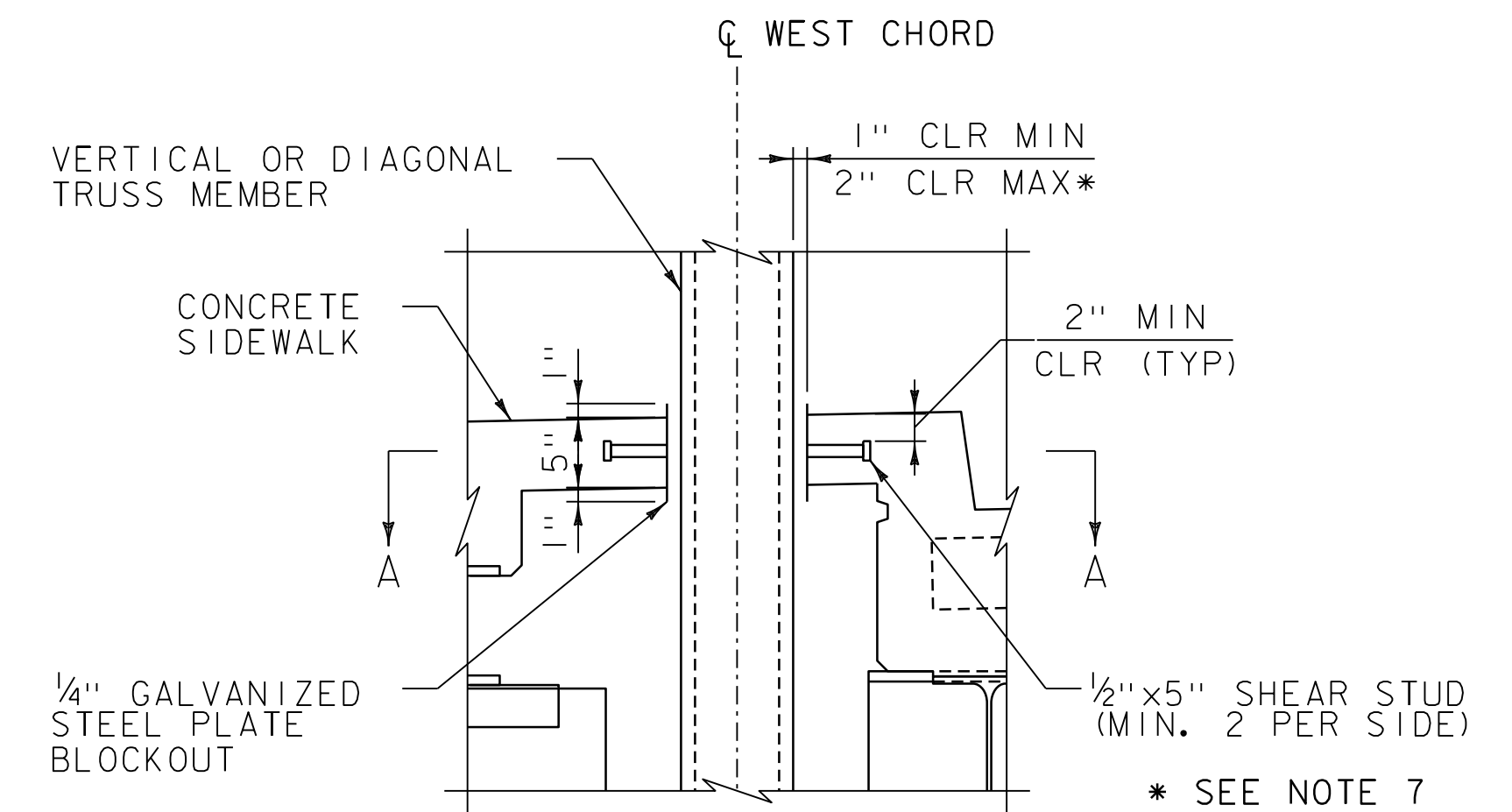
WEST TRUSS DECK AT GUARDRAIL POST

SCALE: $\frac{3}{4}" = 1' - 0"$



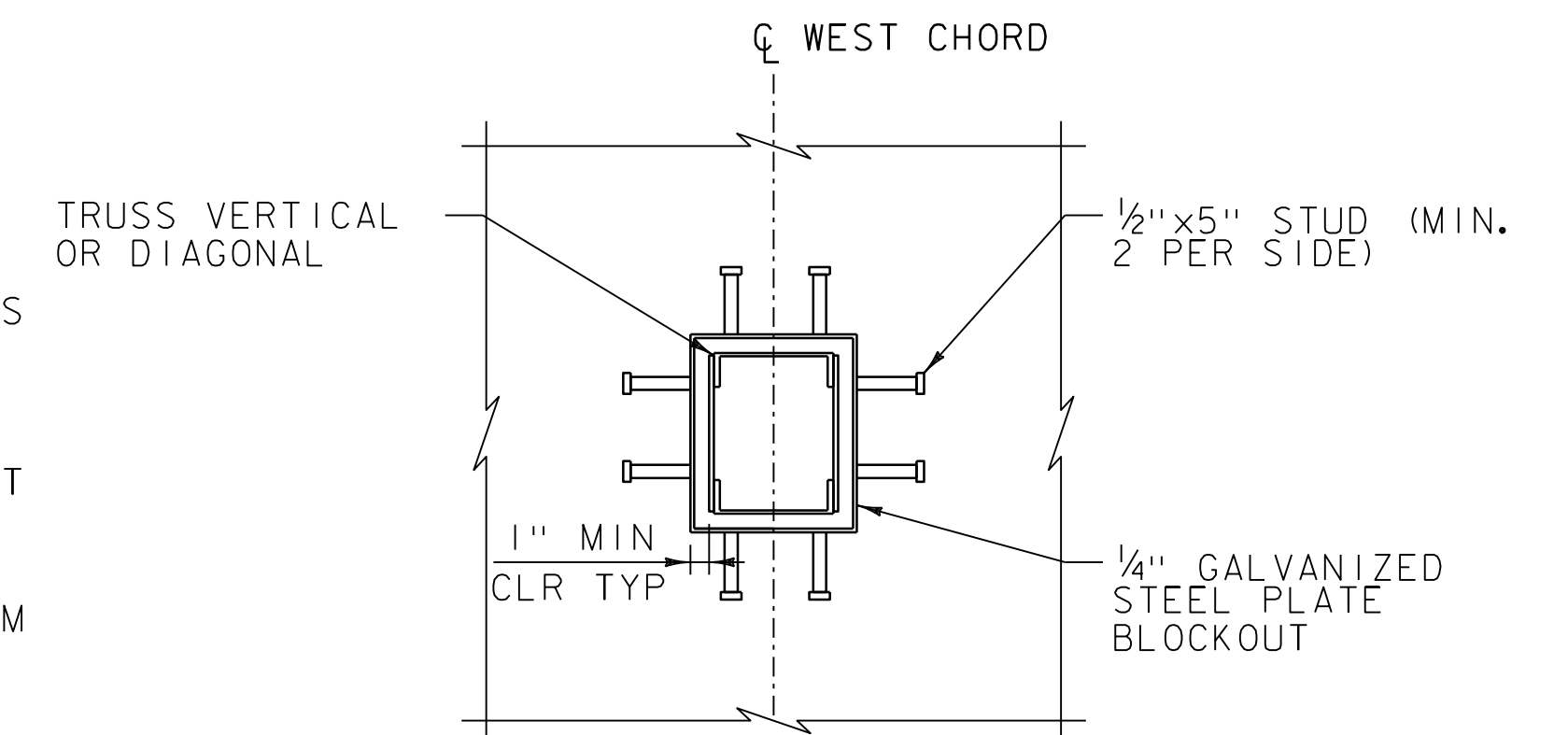
EAST TRUSS DECK AT GUARDRAIL POST

SCALE: $\frac{3}{4}" = 1' - 0"$



STEEL BLOCKOUT DETAIL

NOT TO SCALE

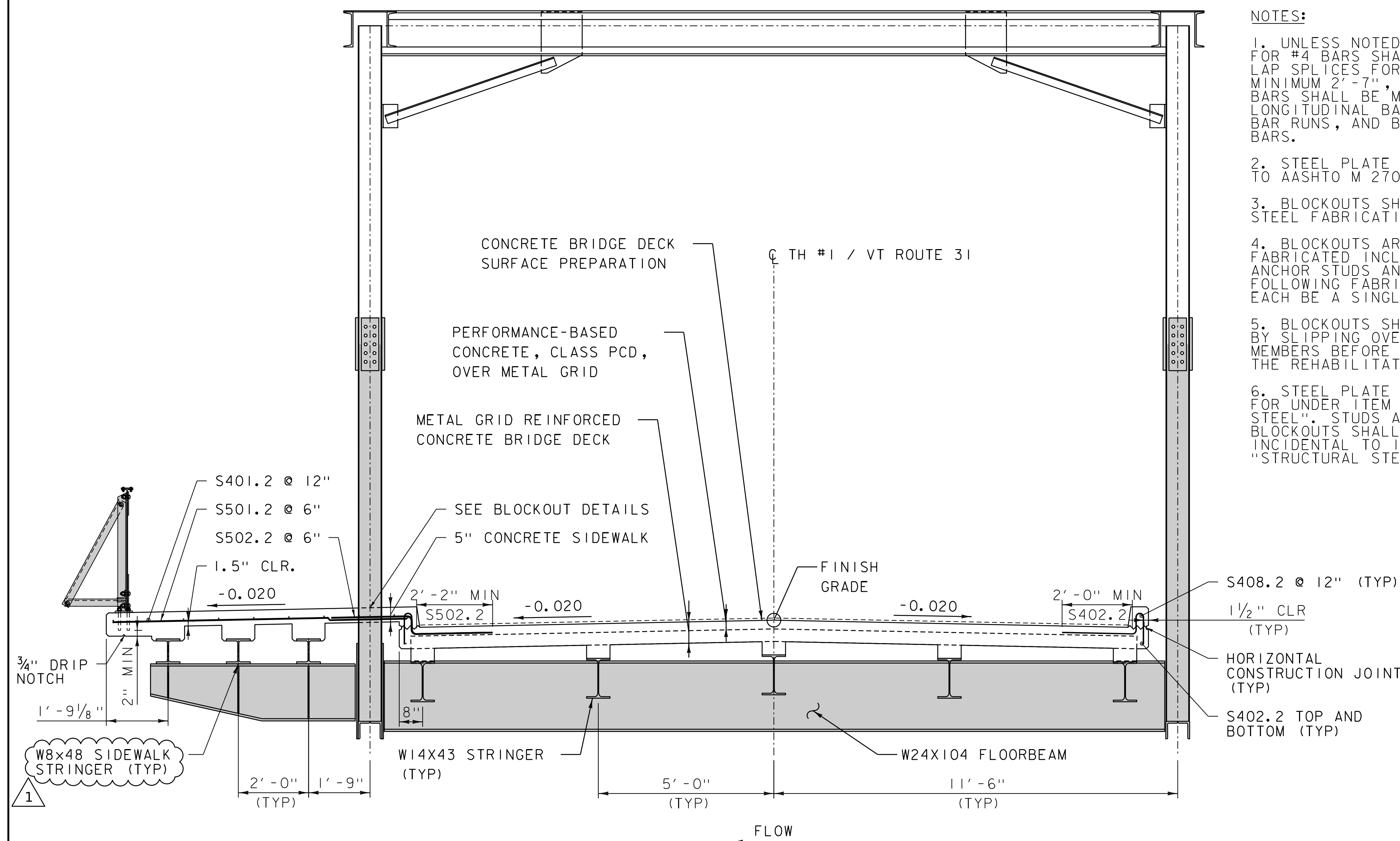


SECTION A-A

NOT TO SCALE

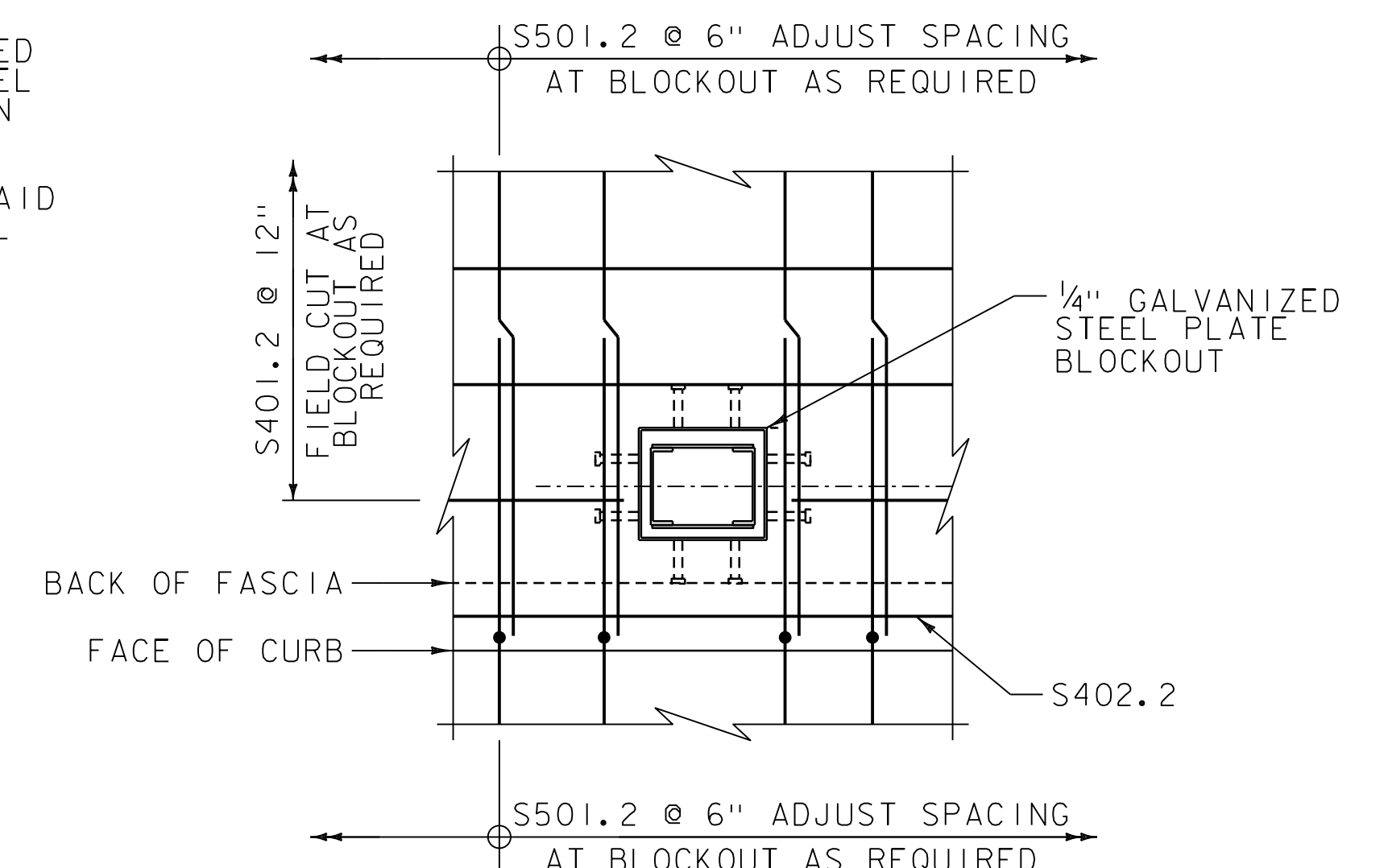
NOTES:

- UNLESS NOTED OTHERWISE, LAP SPLICES FOR #4 BARS SHALL BE MINIMUM 2'-2", LAP SPLICES FOR #5 BARS SHALL BE MINIMUM 2'-7", AND LAP SPLICES FOR #6 BARS SHALL BE MINIMUM 3'-1". STAGGER LONGITUDINAL BAR LAPS BETWEEN ADJACENT BAR RUNS, AND BETWEEN TOP AND BOTTOM BARS.
- STEEL PLATE BLOCKOUTS SHALL CONFORM TO AASHTO M 270 GRADE 36 OR 50.
- BLOCKOUTS SHALL BE DETAILED IN THE STEEL FABRICATION DRAWINGS.
- BLOCKOUTS ARE INTENDED TO BE SHOP FABRICATED INCLUDING THE ATTACHMENT OF ANCHOR STUDS AND THEN GALVANIZED. FOLLOWING FABRICATION, BLOCKOUTS SHALL EACH BE A SINGLE PIECE.
- BLOCKOUTS SHALL BE FIELD INSTALLED BY SLIPPING OVER THE END OF NEW STEEL MEMBERS BEFORE THEY ARE INSTALLED IN THE REHABILITATED TRUSS.
- STEEL PLATE BLOCKOUTS SHALL BE PAID FOR UNDER ITEM 506.6000, "STRUCTURAL STEEL". STUDS ASSOCIATED WITH THE BLOCKOUTS SHALL BE CONSIDERED INCIDENTAL TO ITEM 506.6000, "STRUCTURAL STEEL".



TRUSS TYPICAL REINFORCING SECTION

SCALE: $\frac{1}{2}" = 1' - 0"$



CURB AND SIDEWALK REINFORCING AT DECK BLOCKOUT

SCALE $\frac{3}{4}" = 1' - 0"$

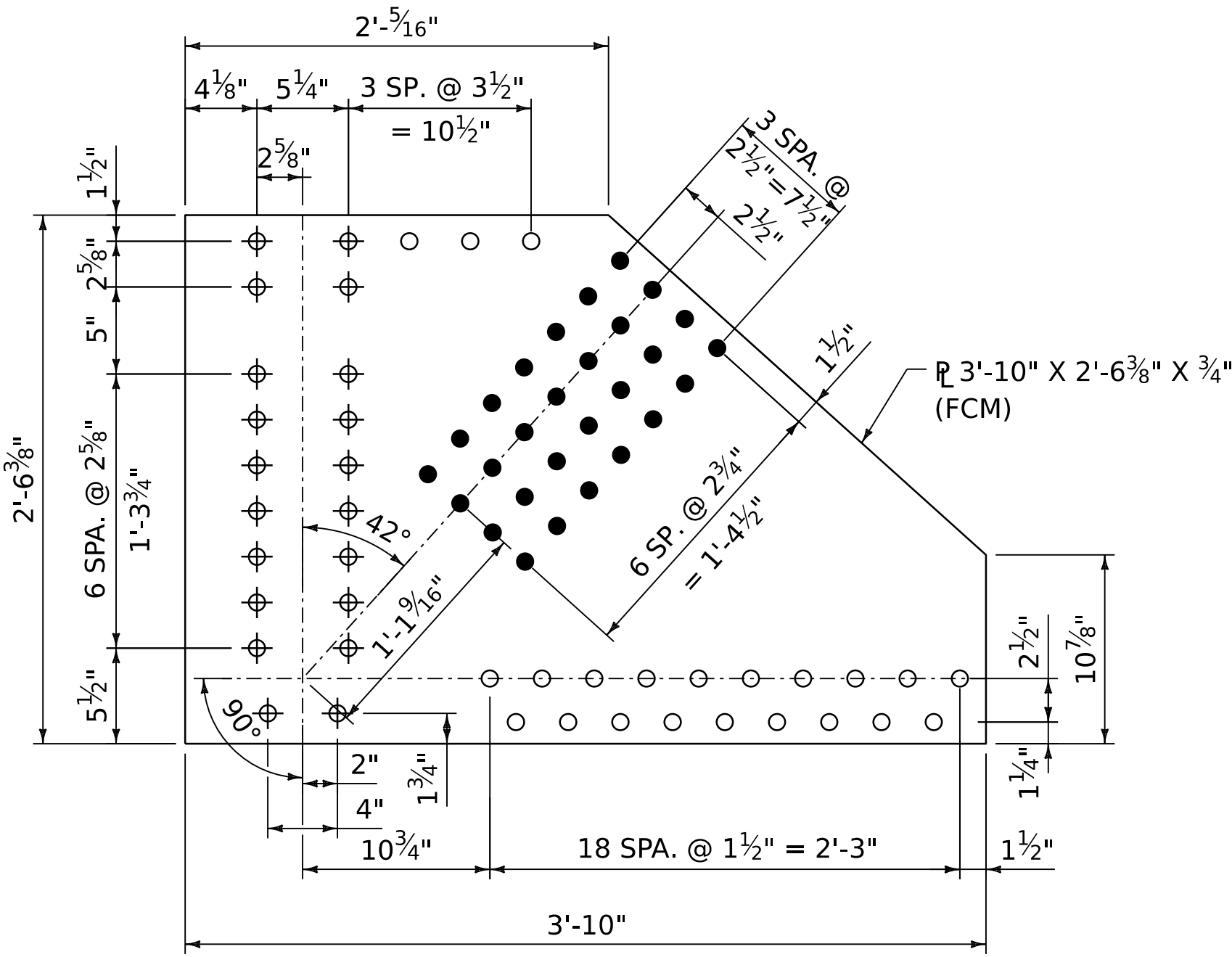
PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(I3)

FILE NAME: z2lj64deck_det.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: M.S.W. THISTLE
DECK REINFORCING DETAILS

PLOT DATE: 5/19/2025
DRAWN BY: M.S.W. THISTLE
CHECKED BY: J.D. KEENER
SHEET 45 OF 115

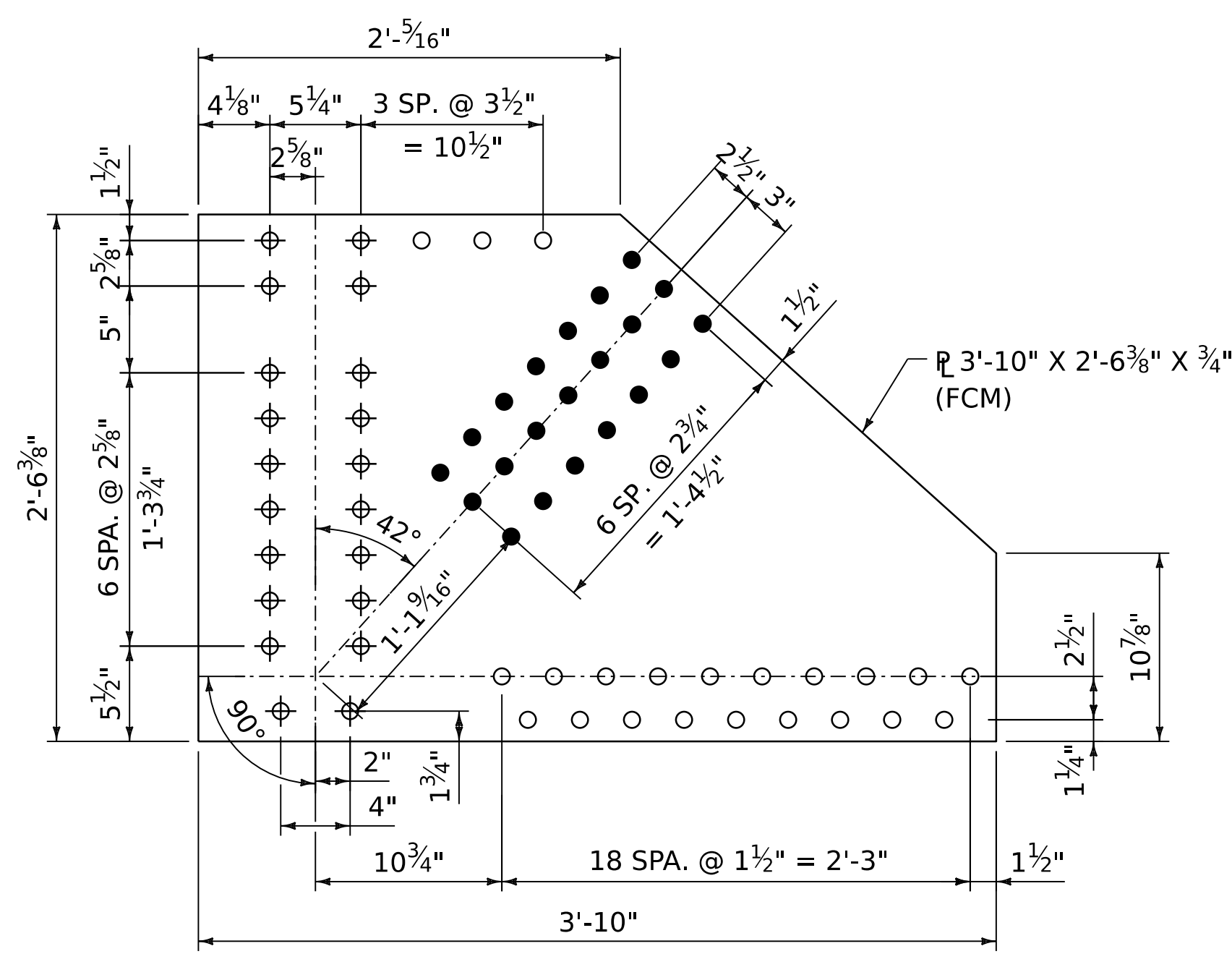


ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	CHANGED SIDEWALK STRINGERS TO W8X48	MSWT



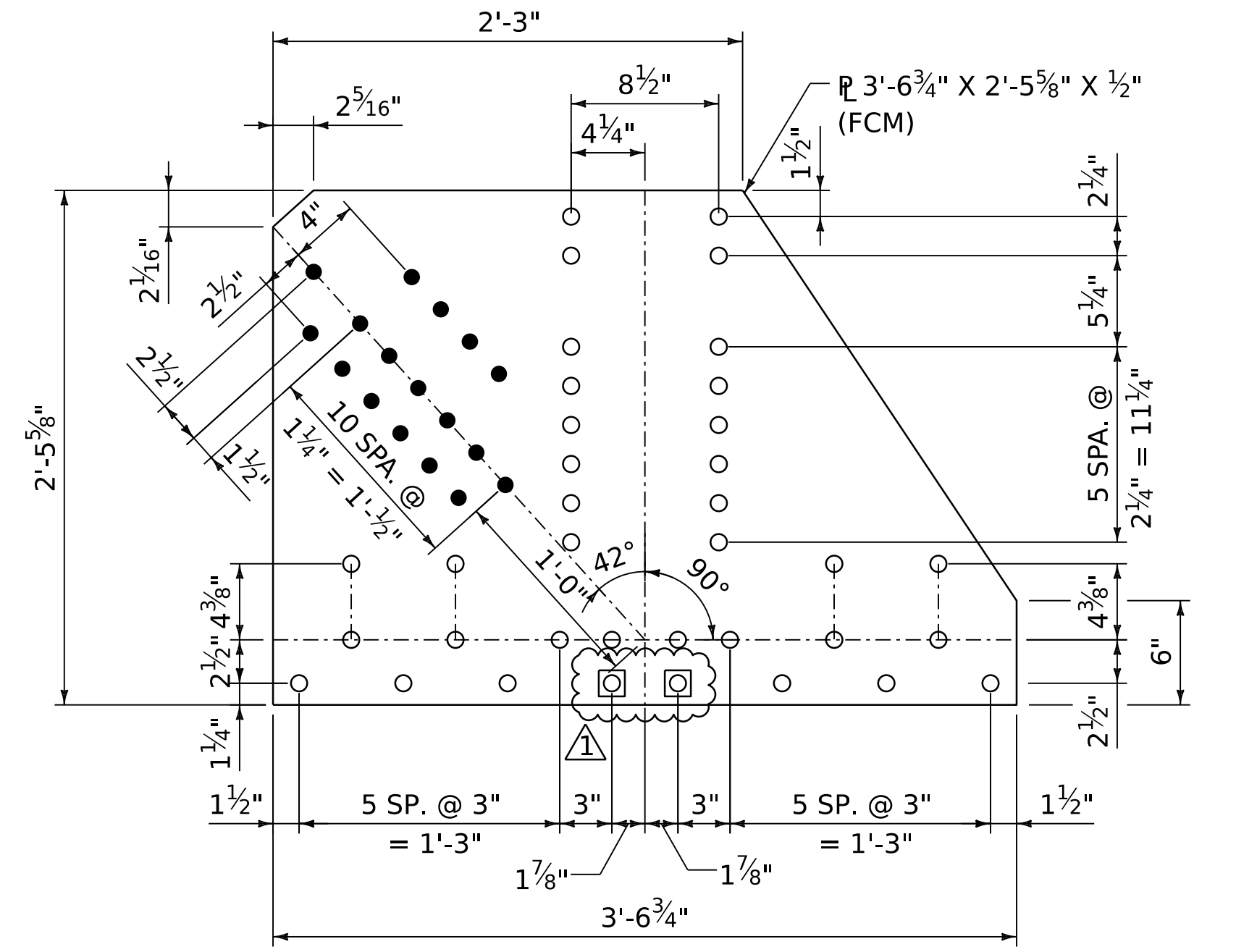
GUSSET PLATE 1 - WEST TRUSS

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



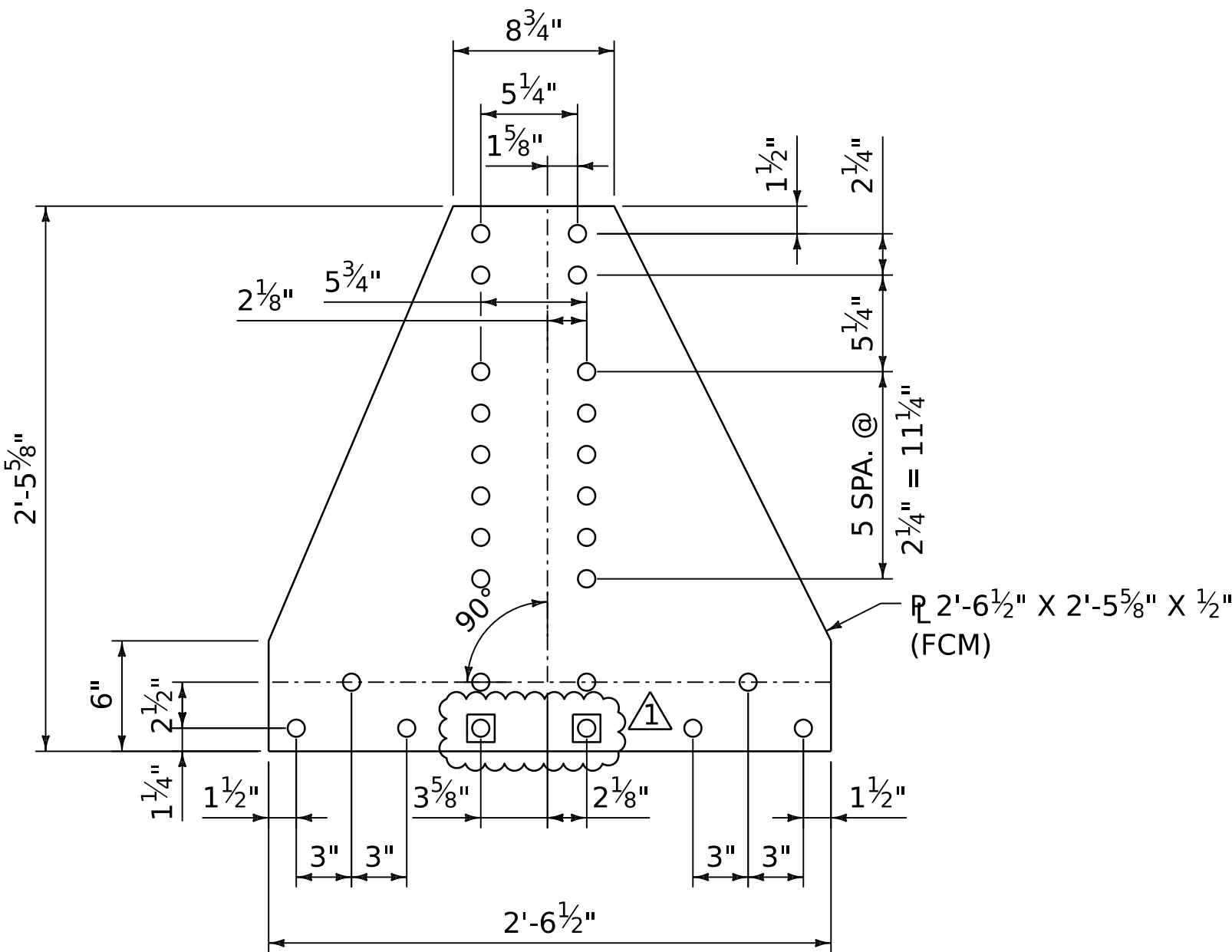
GUSSET PLATE 1 - EAST TRUSS

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



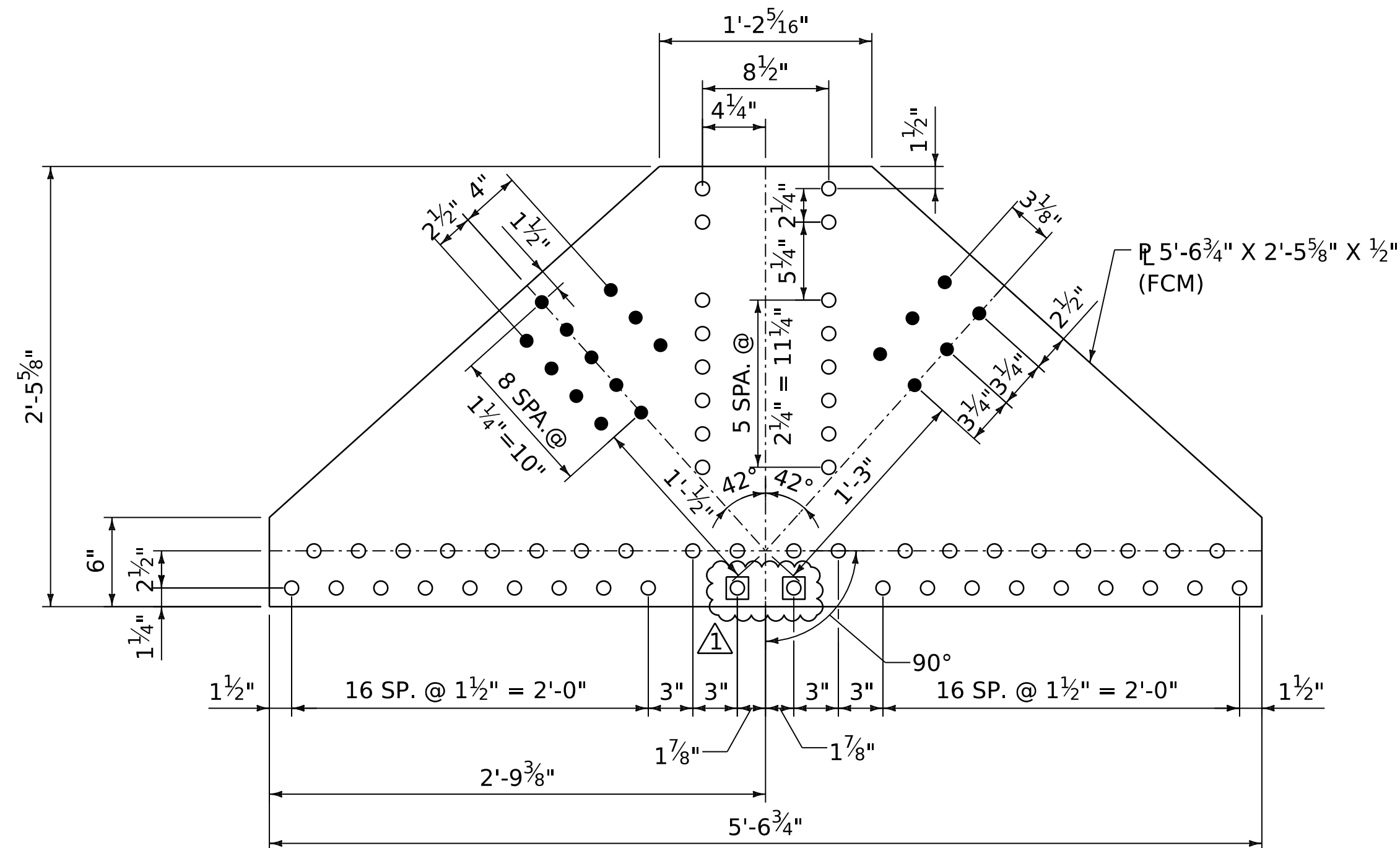
GUSSET PLATE 3

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



GUSSET PLATE 2

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



GUSSET PLATE 4

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

LEGEND

⊕ 7/8" DIA. BOLT

○ 3/4" DIA. BOLT

⊕ 3/4" DIA. BOLT, EXTERIOR GUSSET PLATE ONLY

● 3/4" DIA. BOLT (HOLE MAY BE FIELD DRILLED) (SEE NOTE 1)

FCM - FRACTURE CRITICAL MEMBER

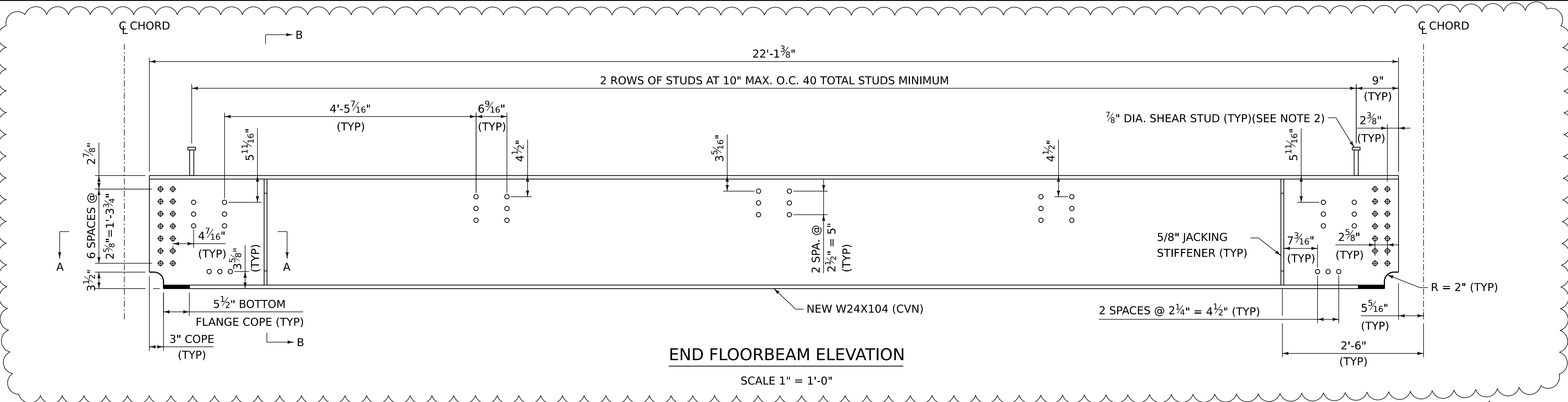
NOTES:

- HOLES IN GUSSET PLATES FOR DIAGONAL MEMBERS AS ANNOTATED WITHIN THESE PLANS WILL BE ALLOWED TO BE FIELD DRILLED AT THE CONTRACTORS DISCRETION. ADDITIONAL LOCATIONS FOR FIELD DRILLING MAY BE PROPOSED BUT WILL REQUIRE REVIEW AND APPROVAL BY THE VTRANS STRUCTURES ENGINEER.
- THE CONTRACTOR SHALL INCLUDE ALL PROPOSED LOCATIONS FOR FIELD DRILLING OF MEMBERS IN THE PROPOSED WORK SEQUENCE AND FABRICATION DRAWINGS.
- REAMING OF ANY FULL-SIZE DRILLED HOLES WILL NOT BE ALLOWED.

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
⚠	1	5/19/2025	ADDED BOLTS TO EXTERIOR GUSSET PLATES	RHB

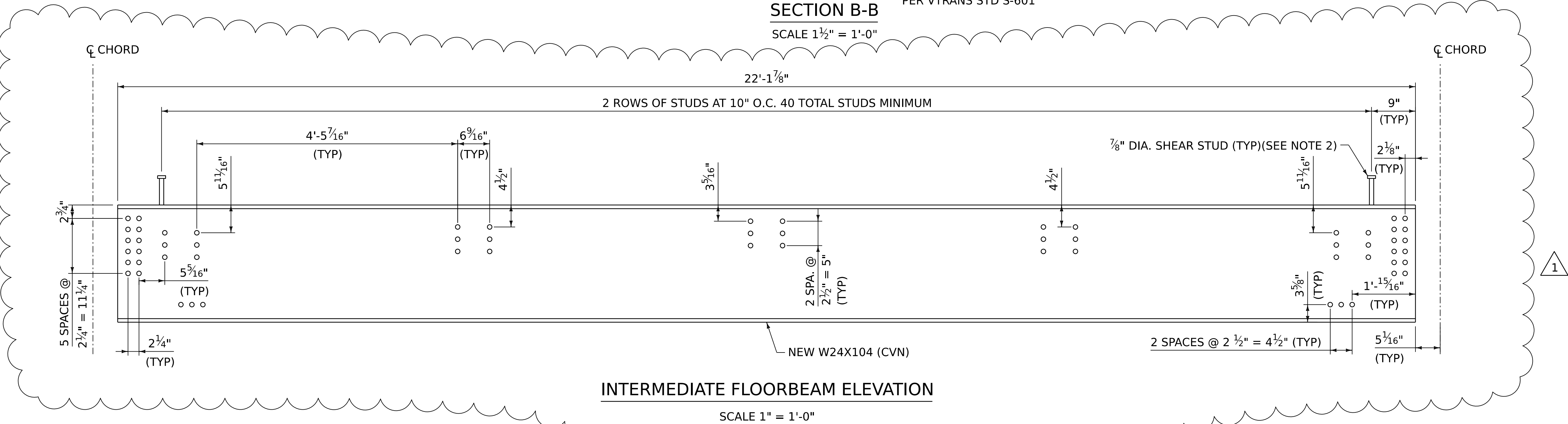
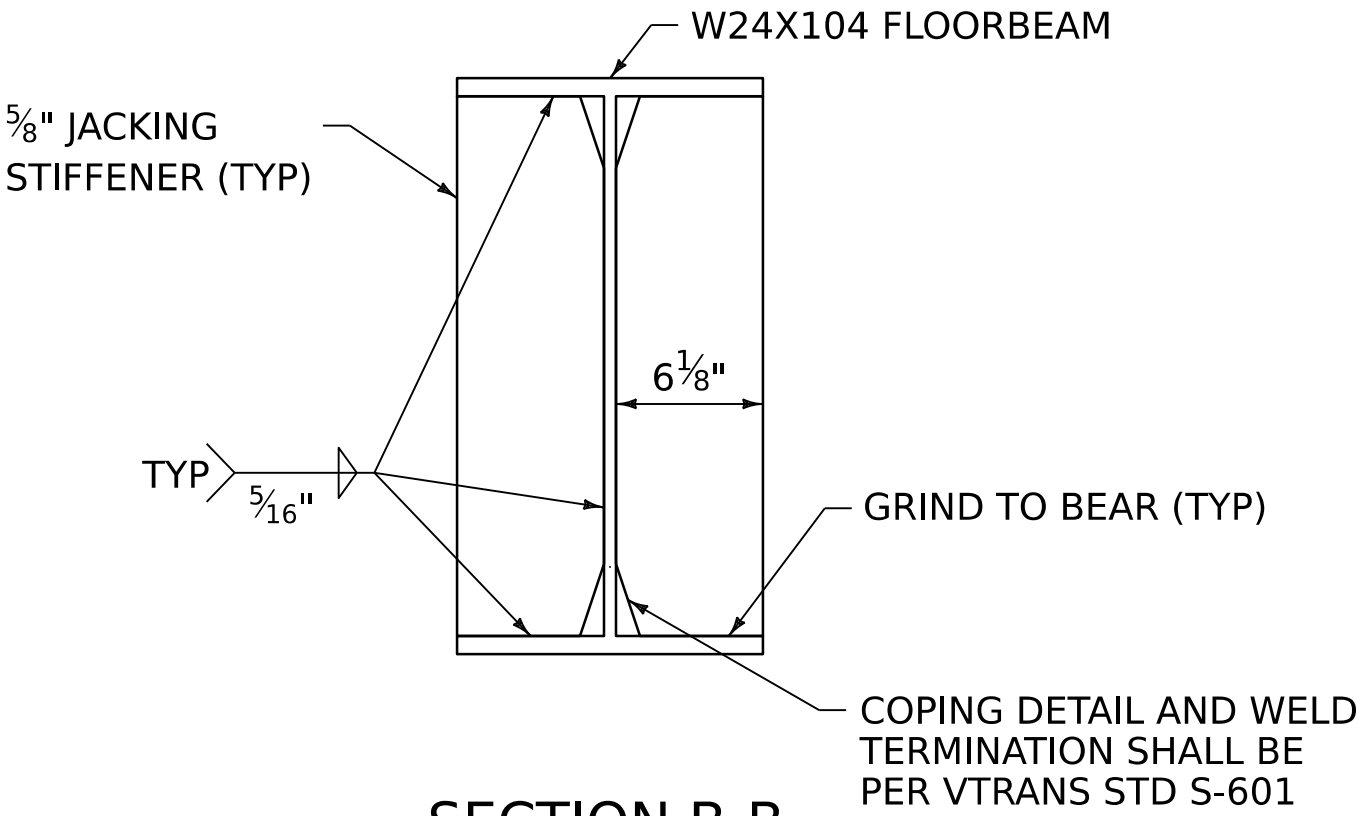
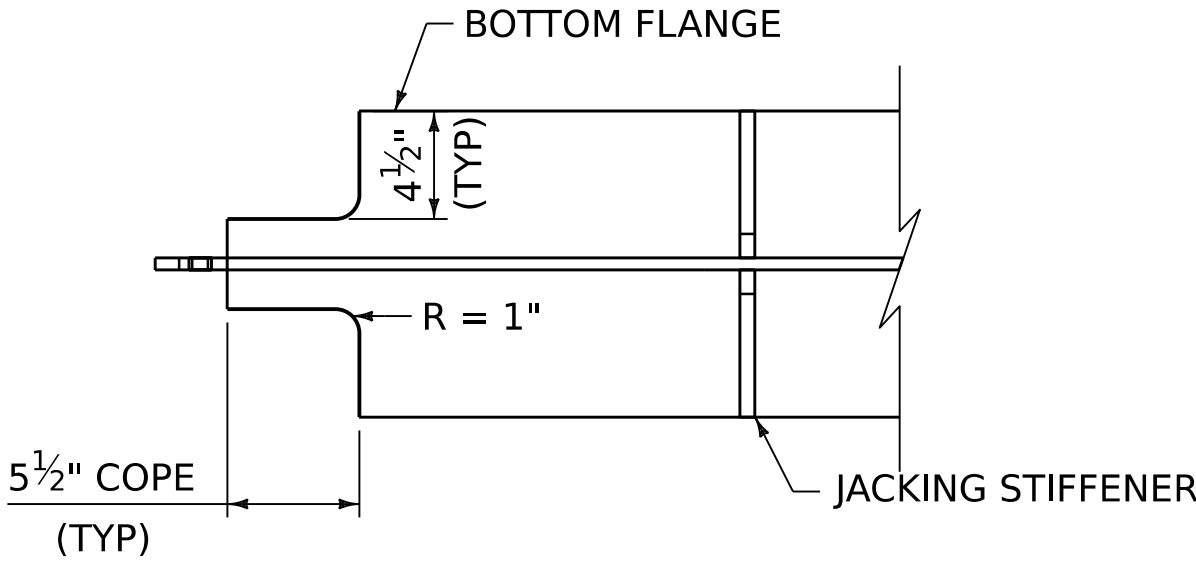


PROJECT NAME:	POULTNEY	PLOT DATE:	5/19/2025
PROJECT NUMBER:	BF 0145(13)	DRAWN BY:	N.A. TRUSLOW
FILE NAME:	z21j164gusset.dgn	CHECKED BY:	J.D. KEENER
PROJECT LEADER:	J.D. KEENER	SHEET	46 OF 115
DESIGNED BY:	N.A. TRUSLOW		
GUSSET PLATE DETAILS			



LEGEND:

- ⊕ 7/8" DIA. BOLT
○ 3/4" DIA. BOLT



NOTES:

- SHEAR STUDS SHALL BE SPACED TRANSVERSELY AS SHOWN IN VTRANS STANDARD S-600.
- SHEAR STUD HEIGHTS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE PREFABRICATED DECK DESIGN. AT A MINIMUM, STUDS SHALL HAVE 3" OF COVER AND PROTRUDE A MINIMUM OF 2" ABOVE THE HAUNCH THICKNESS. CAMBER TOLERANCE SHALL BE ACCOUNTED FOR IN DETERMINATION OF SHEAR STUD HEIGHTS.

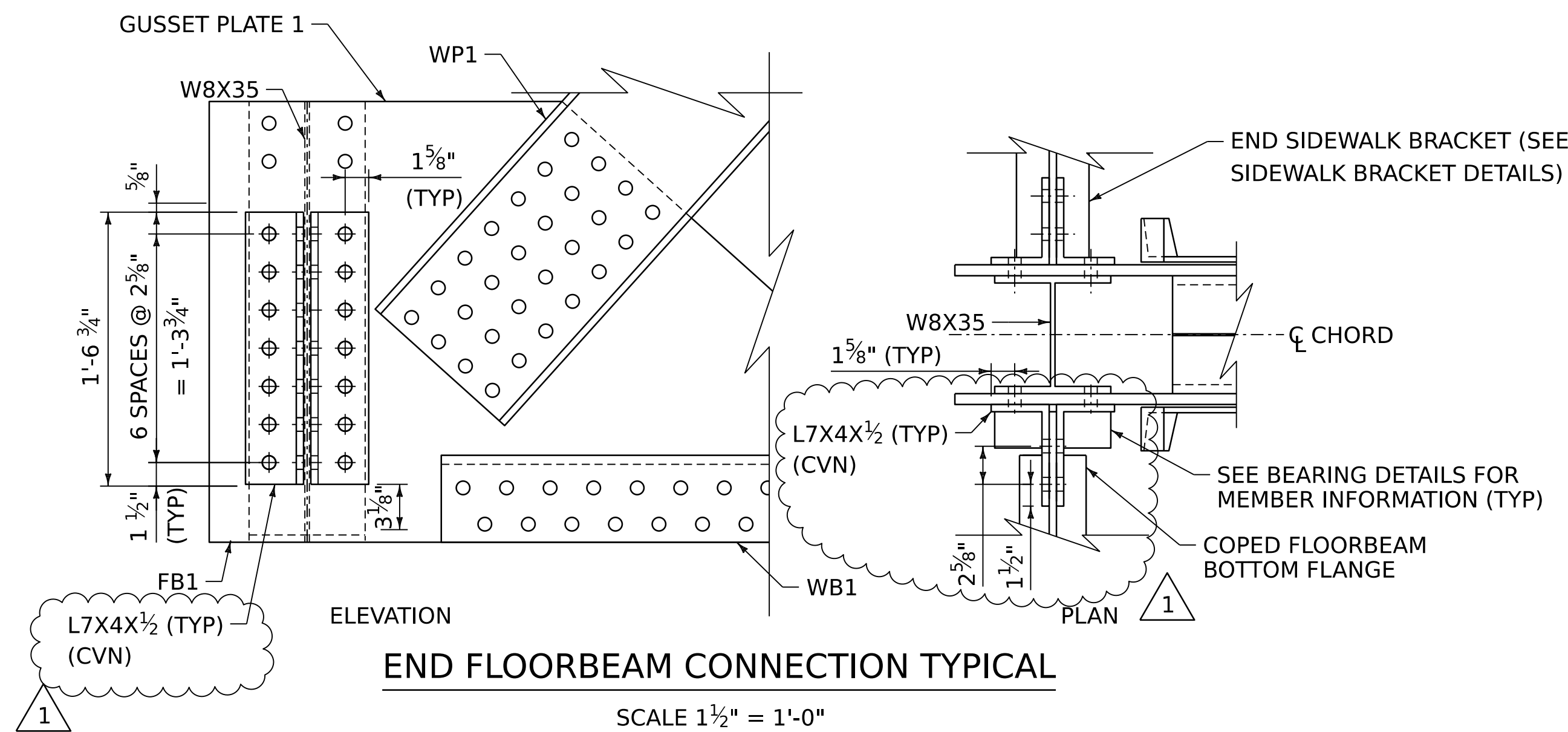
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	UPDATED SHEAR STUDS AND REVISED FLOORBEAM AND STRINGER CONNECTIONS	NAT



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z21j164floorbeam.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: N.A. TRUSLOW
FLOORBEAM DETAILS

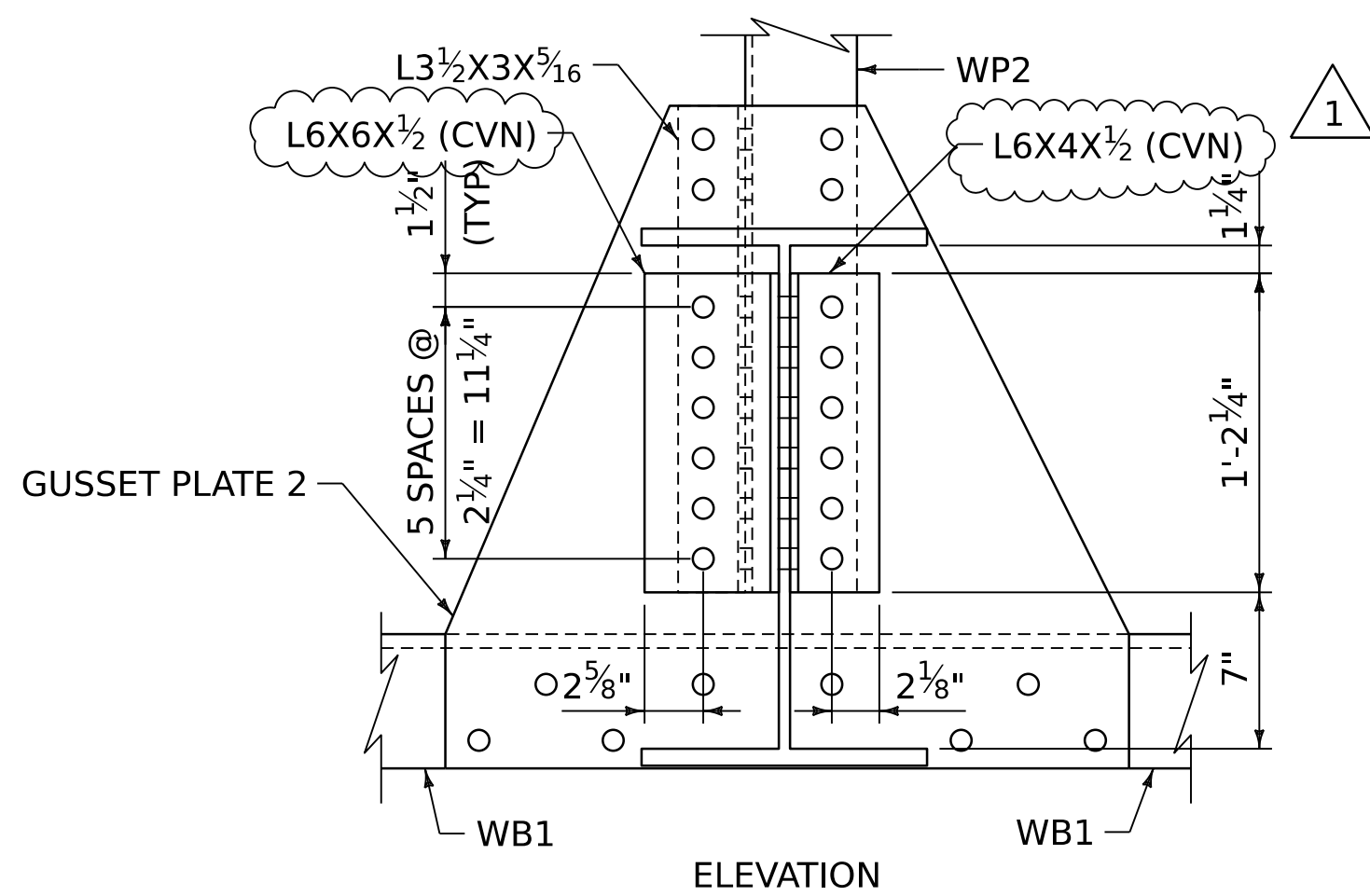
PLOT DATE: 5/19/2025
DRAWN BY: N.A. TRUSLOW
CHECKED BY: J.D. KEENER
SHEET 47 OF 115



END FLOORBEAM CONNECTION TYPICAL

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

NOTE: FB1 WEST TRUSS CONNECTION SHOWN. FB8 WEST TRUSS CONNECTION MIRRORED. EAST TRUSS FB1 & FB8 CONNECTIONS SIMILAR.

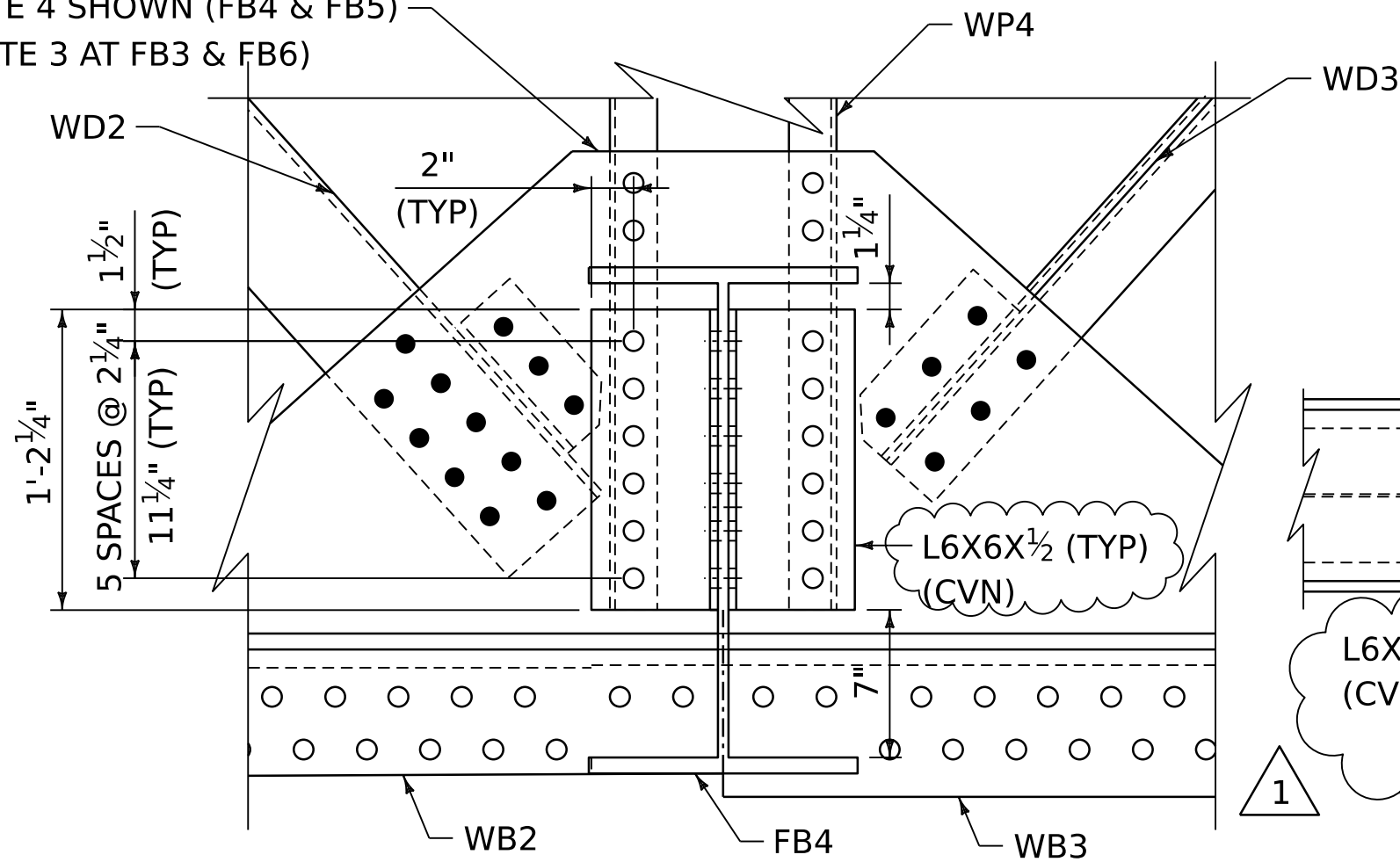


INTERMEDIATE FLOORBEAM CONNECTION TYPICAL (FB 2 AND 7)

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

NOTE: FB2 WEST TRUSS CONNECTION SHOWN. FB7 WEST TRUSS CONNECTION MIRRORED. EAST TRUSS FB2 & FB7 CONNECTIONS SIMILAR.

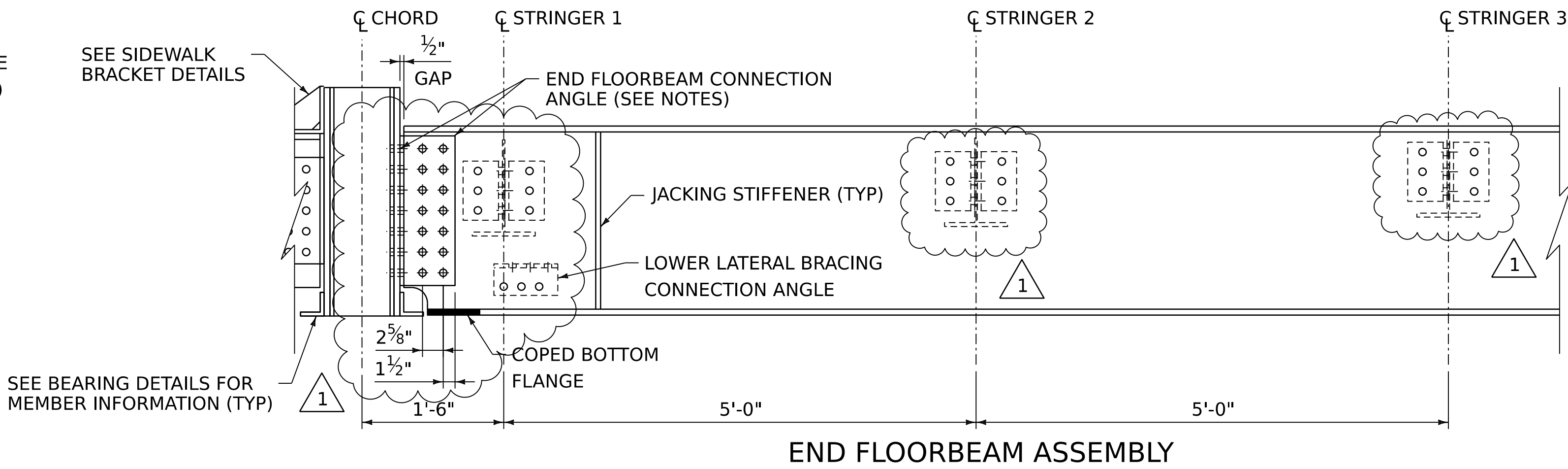
GUSSET PLATE 4 SHOWN (FB4 & FB5)
(GUSSET PLATE 3 AT FB3 & FB6)



INTERMEDIATE FLOORBEAM CONNECTION TYPICAL (FB 3, 4, 5, & 6)

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

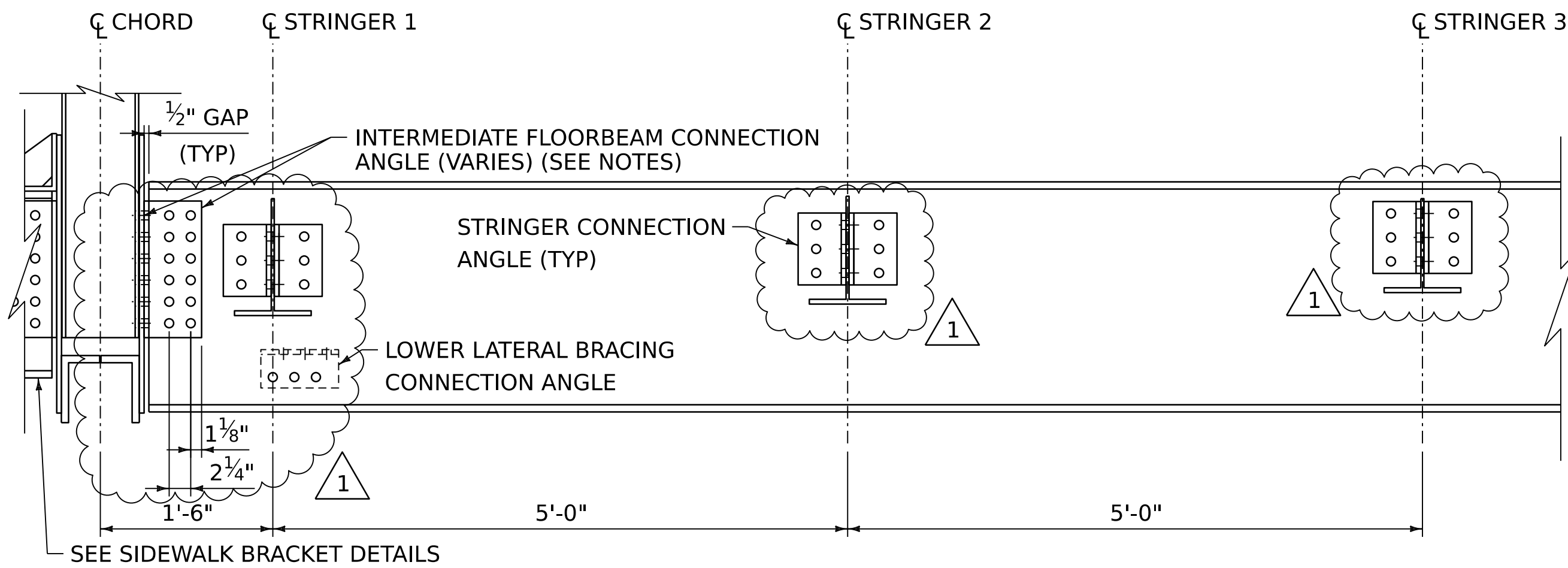
NOTE: CONNECTION AT WEST TRUSS PANEL POINT 4 SHOWN. CONNECTION AT EAST TRUSS PANEL POINT 4 MIRRORED. CONNECTIONS AT PANEL POINTS 3, 5, AND 6 ON THE WEST AND EAST TRUSSES ARE SIMILAR.



END FLOORBEAM ASSEMBLY

SCALE 1" = 1'-0"

NOTE: FLOORBEAM ASSEMBLY SYMMETRIC AROUND STRINGER 3.



INTERMEDIATE FLOORBEAM ASSEMBLY

SCALE 1" = 1'-0"

NOTE: FLOORBEAM ASSEMBLY SYMMETRIC AROUND STRINGER 3.

LEGEND:

- ⌀ 7/8" DIA. BOLT
- 3/4" DIA. BOLT

- 3/4" DIA. BOLT (HOLE MAY BE FIELD DRILLED)

NOTE:

THE FAYING SURFACE IN THE CONNECTION BETWEEN FLOORBEAM CONNECTION ANGLES AND THE GUSSET PLATES SHALL HAVE A MINIMUM CLASS B SLIP COEFFICIENT OF 0.5 AND FACES SHALL BE SHOP PRIMED PER SUBSECTION 506.22.

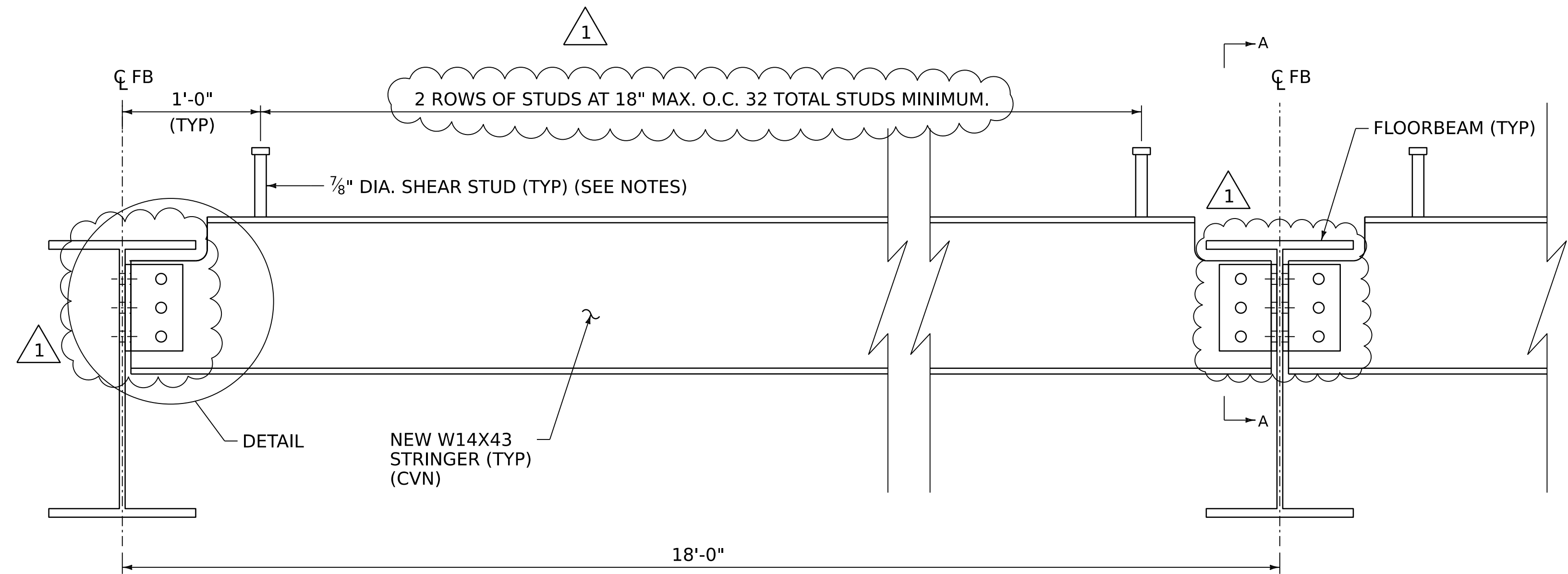
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/20/2025	REVISED FLOORBEAM AND STRINGER CONNECTION ANGLES	NAT



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z21j164floorbeam.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: N.A. TRUSLOW
FLOORBEAM ASSEMBLY DETAILS

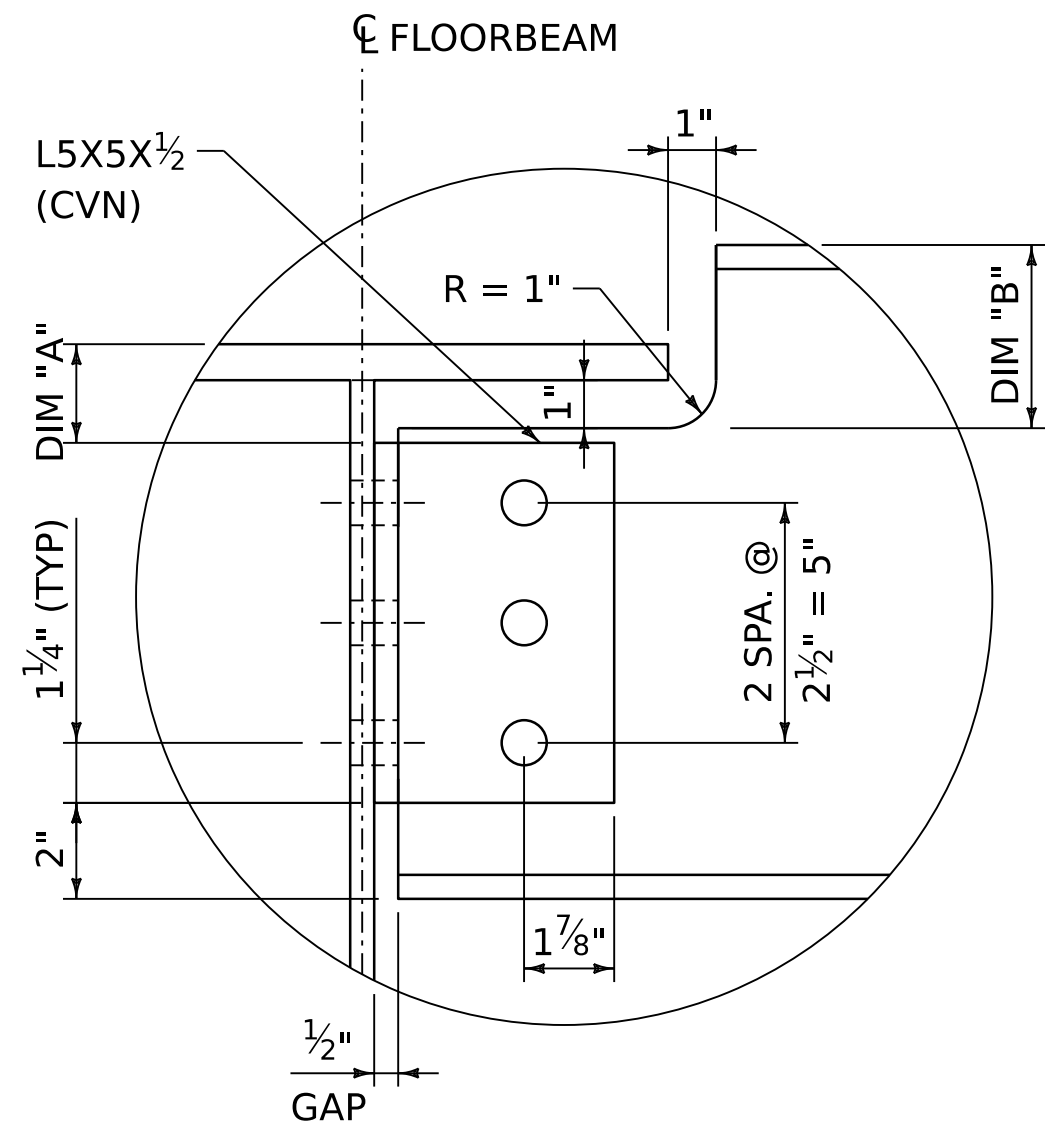
PLOT DATE: 5/20/2025
DRAWN BY: N.A. TRUSLOW
CHECKED BY: J.D. KEENER
SHEET 48 OF 115



TYPICAL STRINGER ELEVATION

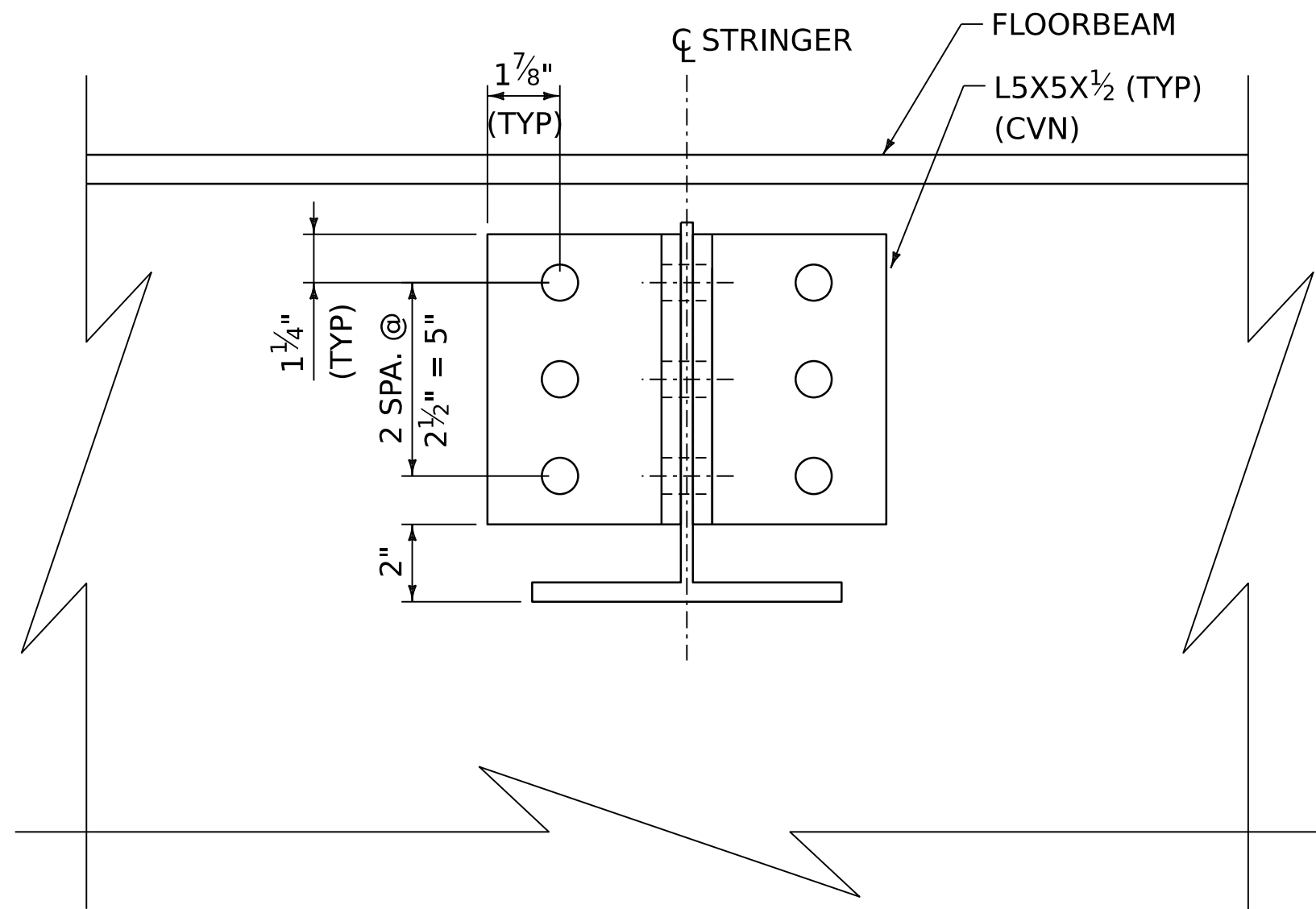
SCALE 1 1/2" = 1'-0"

STRINGER	DIM "A"	DIM "B"
1 & 5	4 7/16"	1 7/16"
2 & 4	3 1/4"	2 5/8"
3	2 1/16"	3 13/16"



DETAIL

SCALE 3" = 1'-0"



SECTION A-A

SCALE 3" = 1'-0"

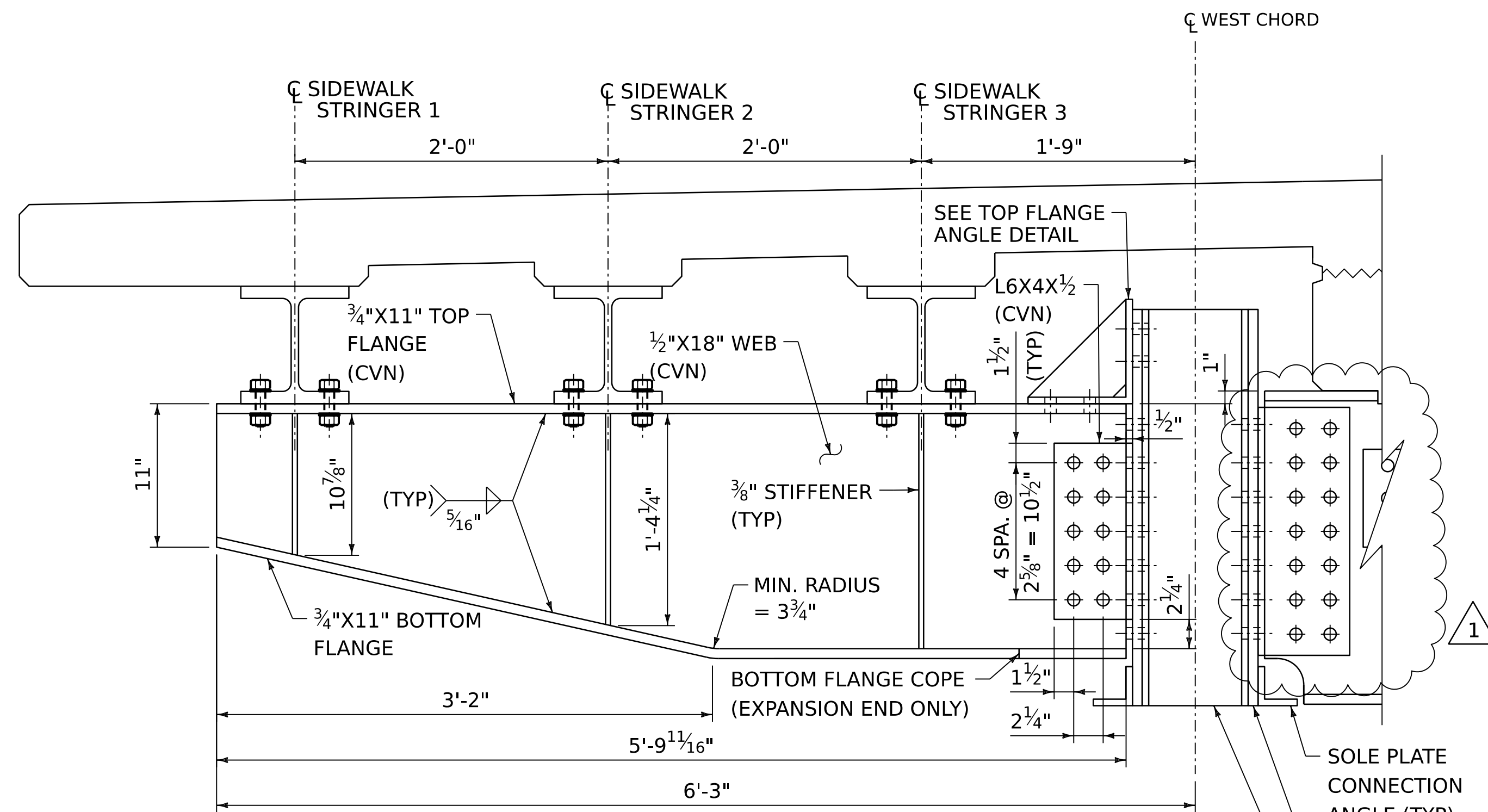
NOTES:

- SEE VTRANS STANDARD S-600 FOR ADDITIONAL INFORMATION.
- SHEAR STUD HEIGHTS SHALL BE DETERMINED BY THE CONTRACTOR AND MAY VARY BASED ON THE PREFABRICATED DECK DESIGN. AT MINIMUM, STUDS SHALL HAVE 3" OF COVER AND PROTRUDE A MINIMUM OF 2" ABOVE THE HAUNCH THICKNESS. CAMBER TOLERANCE SHALL BE ACCOUNTED FOR IN DETERMINATION OF SHEAR OF CONNECTOR HEIGHTS.

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	REVISED STRINGER CONNECTIONS AND SHEAR STUDS	NAT

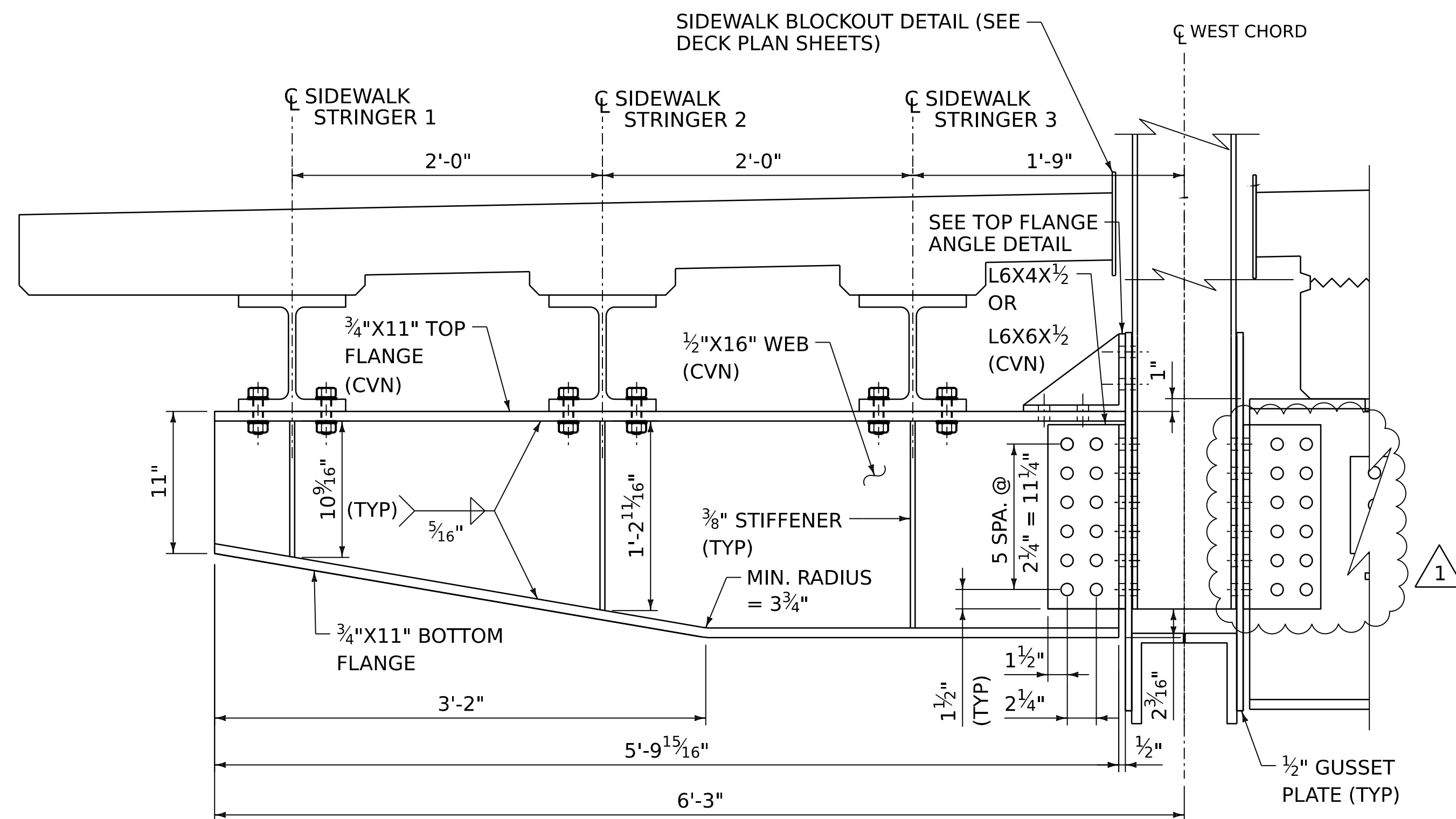


PROJECT NAME:	POULTNEY	PLOT DATE:	5/19/2025
PROJECT NUMBER:	BF 0145(13)	DRAWN BY:	N.A. TRUSLOW
FILE NAME:	z21j164stringer.dgn	CHECKED BY:	J.D. KEENER
PROJECT LEADER:	J.D. KEENER	SHEET	49 OF 115
DESIGNED BY:	N.A. TRUSLOW		
STRINGER DETAILS			



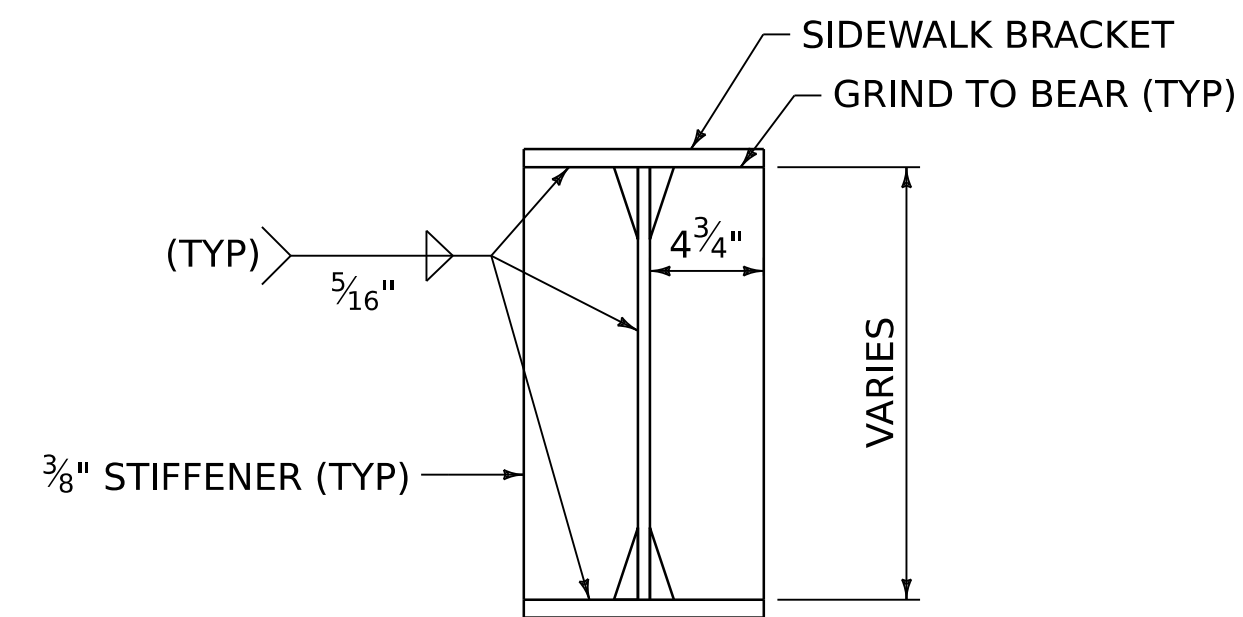
END SIDEWALK BRACKET

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



INTERMEDIATE SIDEWALK BRACKET

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

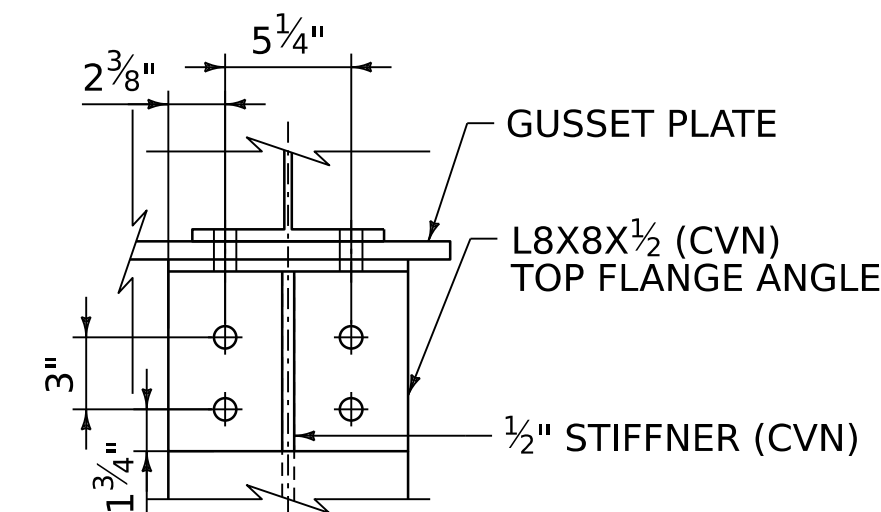


SIDEWALK BRACKET STIFFENER DETAIL

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

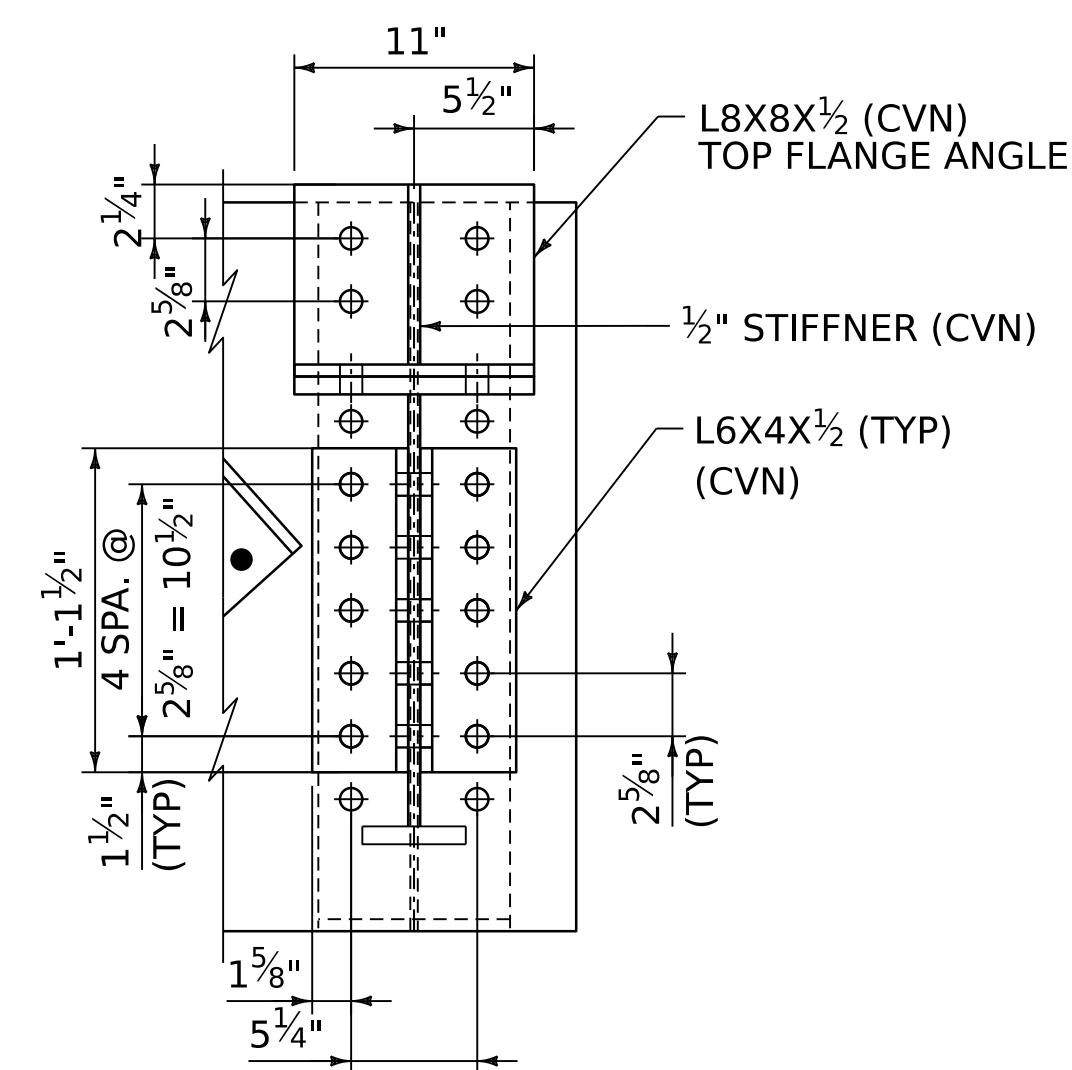
NOTES:

1. SLOPE BOTTOM OF STIFFENER TO MATCH SLOPE OF BOTTOM FLANGE.
2. COPING DETAIL AND WELD TERMINATION SHALL BE PER VTRANS STD S-601



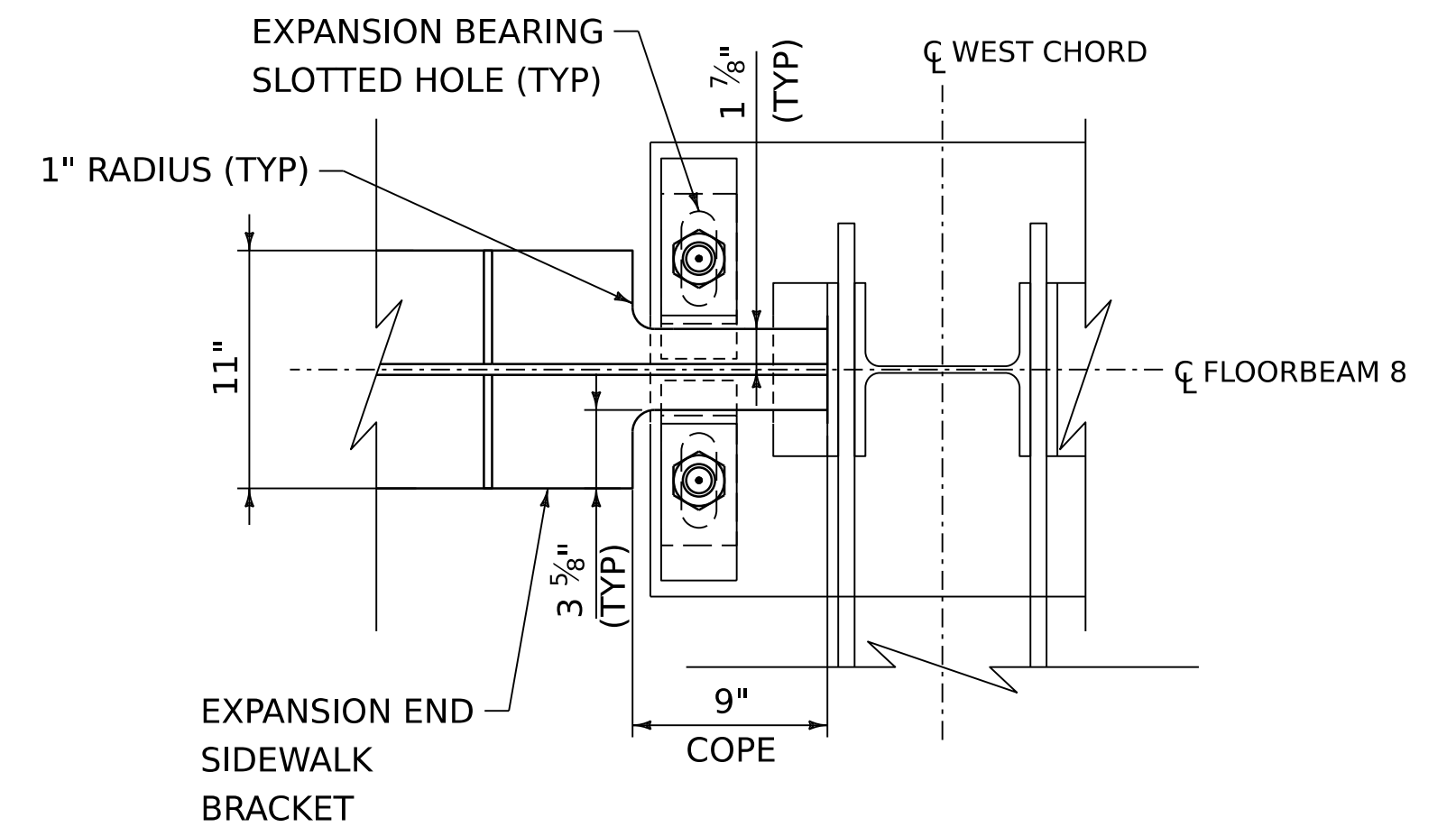
END SIDEWALK BRACKET CONNECTION PLAN

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



END SIDEWALK BRACKET ELEVATION

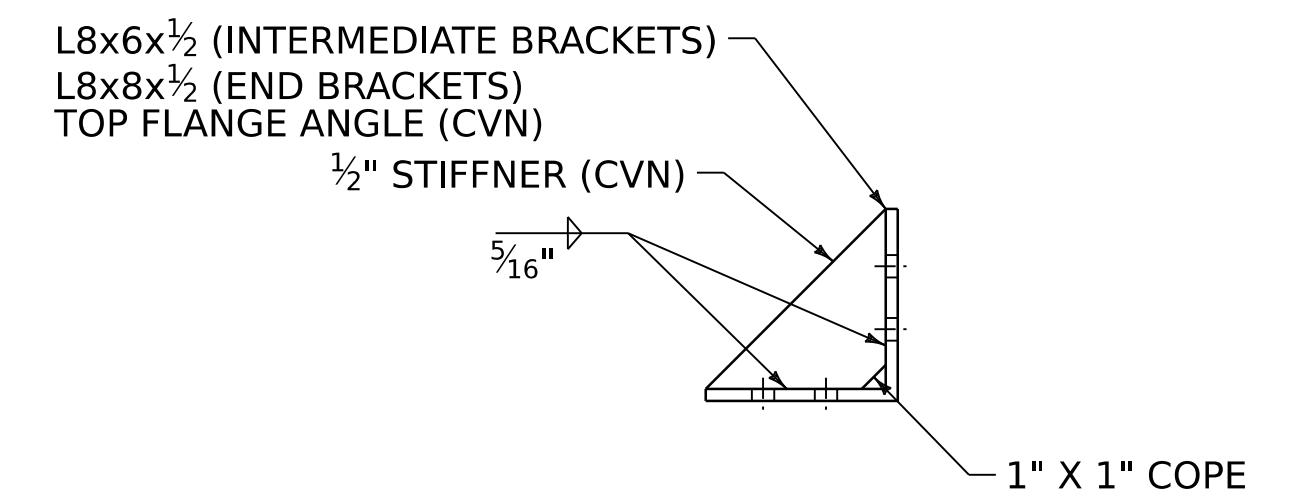
SCALE 1 1/2"=1'-0"



SIDEWALK BRACKET COPE DETAIL

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

NOTE: SIDEWALK BRACKET IS COPED ON EXPANSION END ONLY.



TOP FLANGE ANGLE DETAIL

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

NOTE: HOLD BACK WELDS 1/4" - 1/2"

LEGEND:

- ⊕ 7/8" DIA. BOLT
- 3/4" DIA. BOLT
- 3/4" DIA. BOLT (HOLE MAY BE FIELD DRILLED)

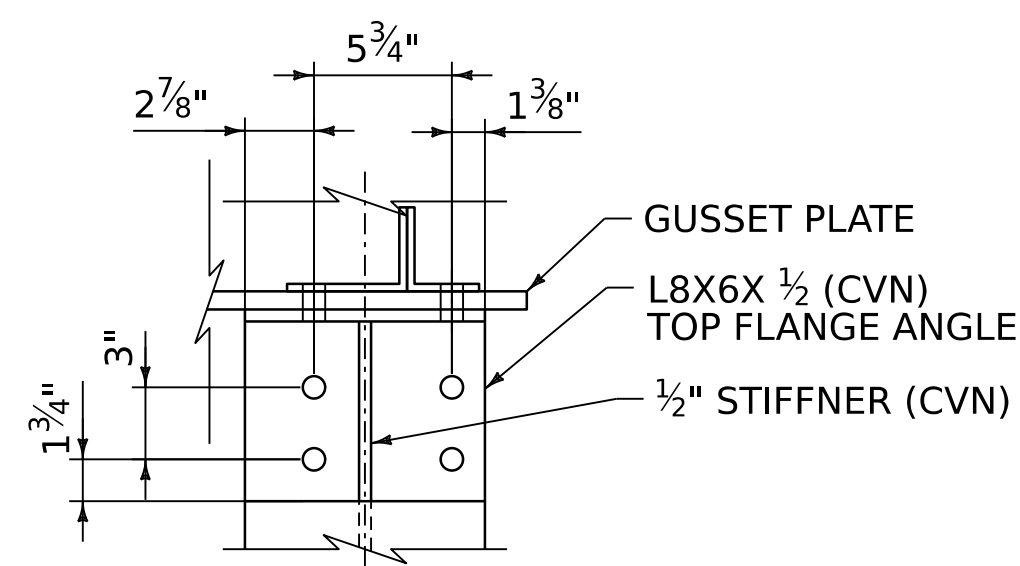
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	REVISED FLOORBEAM AND STRINGER CONNECTIONS	NAT



PROJECT NAME: **POULTNEY**
PROJECT NUMBER: **BF 0145(13)**

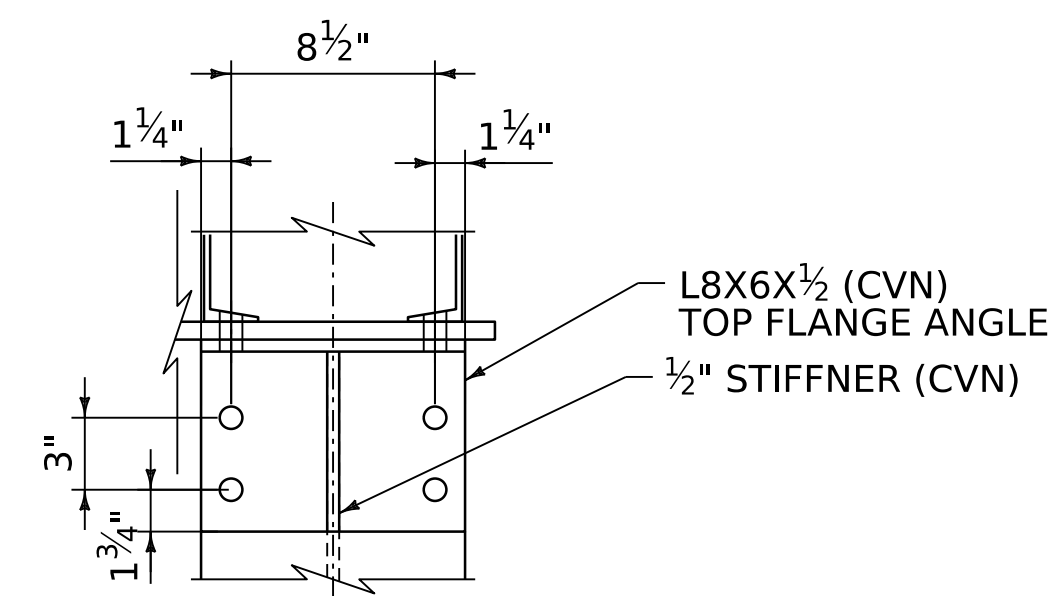
FILE NAME: z21j164sidewalk.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: N.A. TRUSLOW
SIDEWALK BRACKET DETAILS (1 OF 2)

PLOT DATE: 5/19/2025
DRAWN BY: N.A. TRUSLOW
CHECKED BY: J.D. KEENER
SHEET 50 OF 115



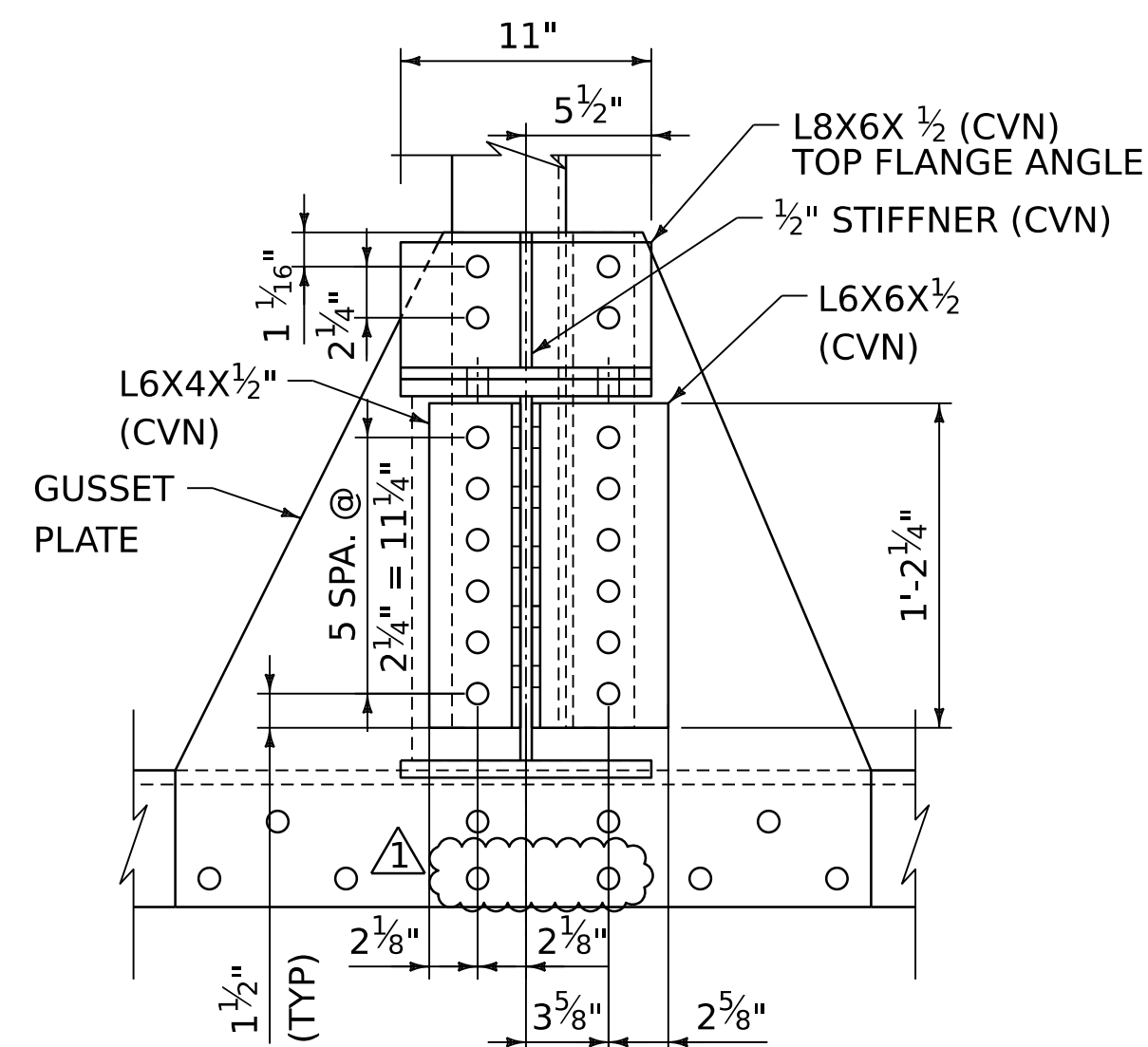
INTERMEDIATE SIDEWALK BRACKET
CONNECTION PLAN (FB2 AND 7)

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



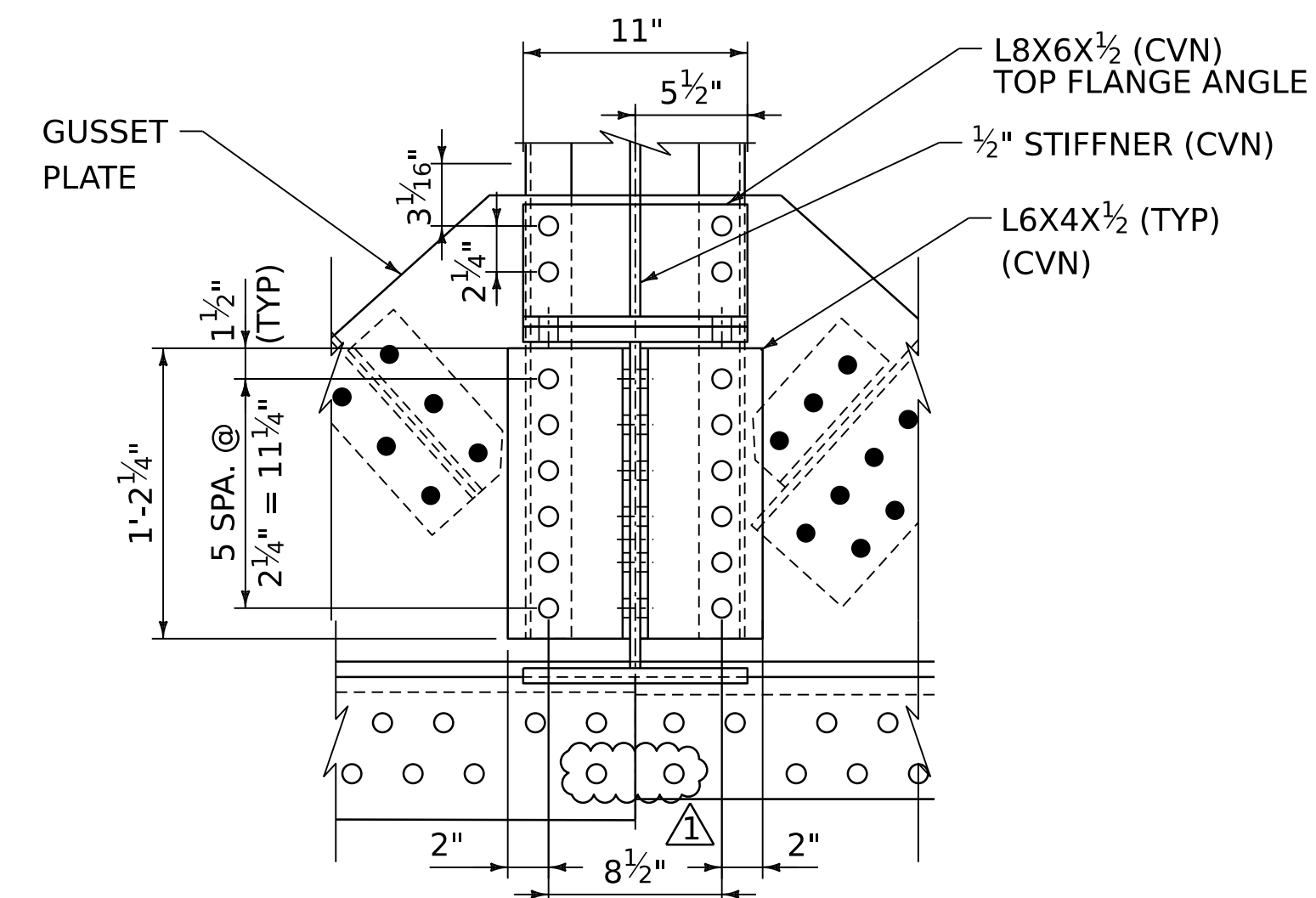
INTERMEDIATE SIDEWALK BRACKET
CONNECTION PLAN (FB3,4,5,&6)

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



INTERMEDIATE SIDEWALK BRACKET
ELEVATION TYPICAL (FB 2 AND 7)

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



INTERMEDIATE SIDEWALK BRACKET
ELEVATION TYPICAL (FB 3,4,5,&6)

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

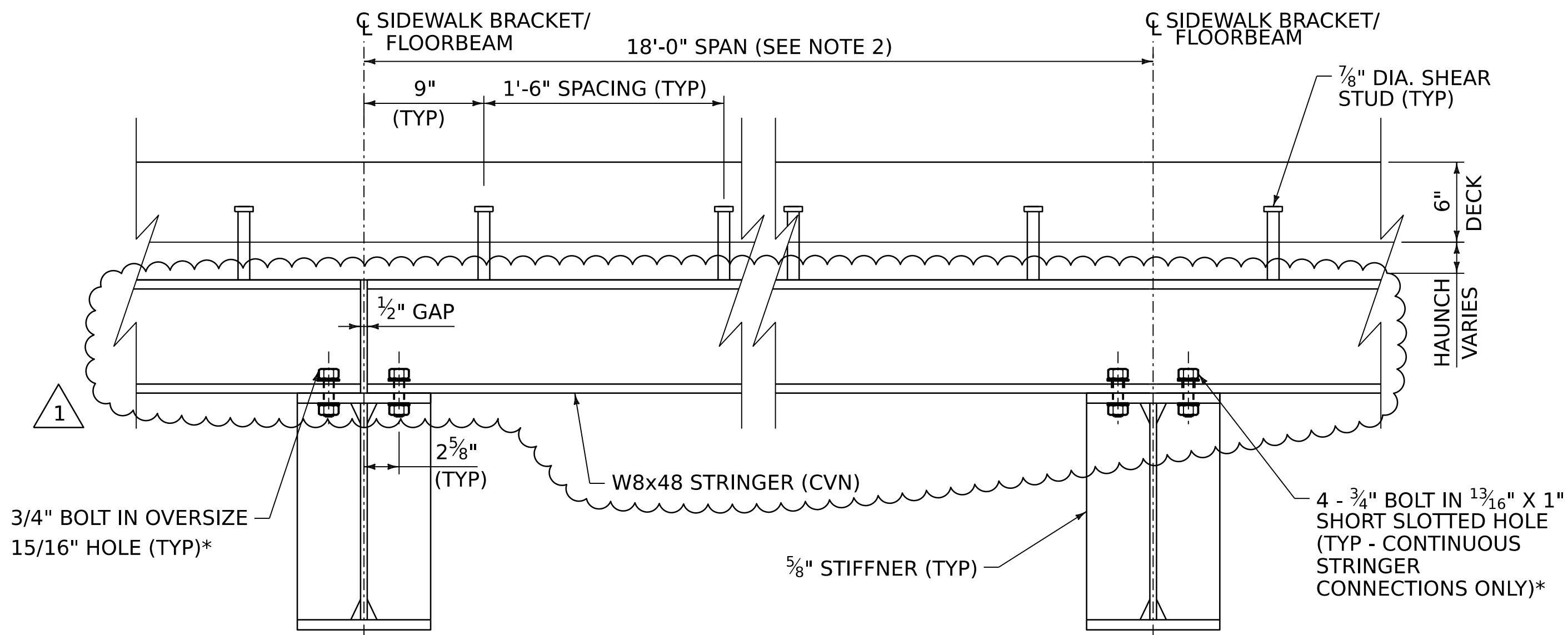
LEGEND:

- ⊕ 7/8" DIA. BOLT
- 3/4" DIA. BOLT
- 3/4" DIA. BOLT (HOLE MAY BE FIELD DRILLED)

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
△	1	5/19/2025	ADDED BOLTS TO EXTERIOR GUSSET PLATES	RHB

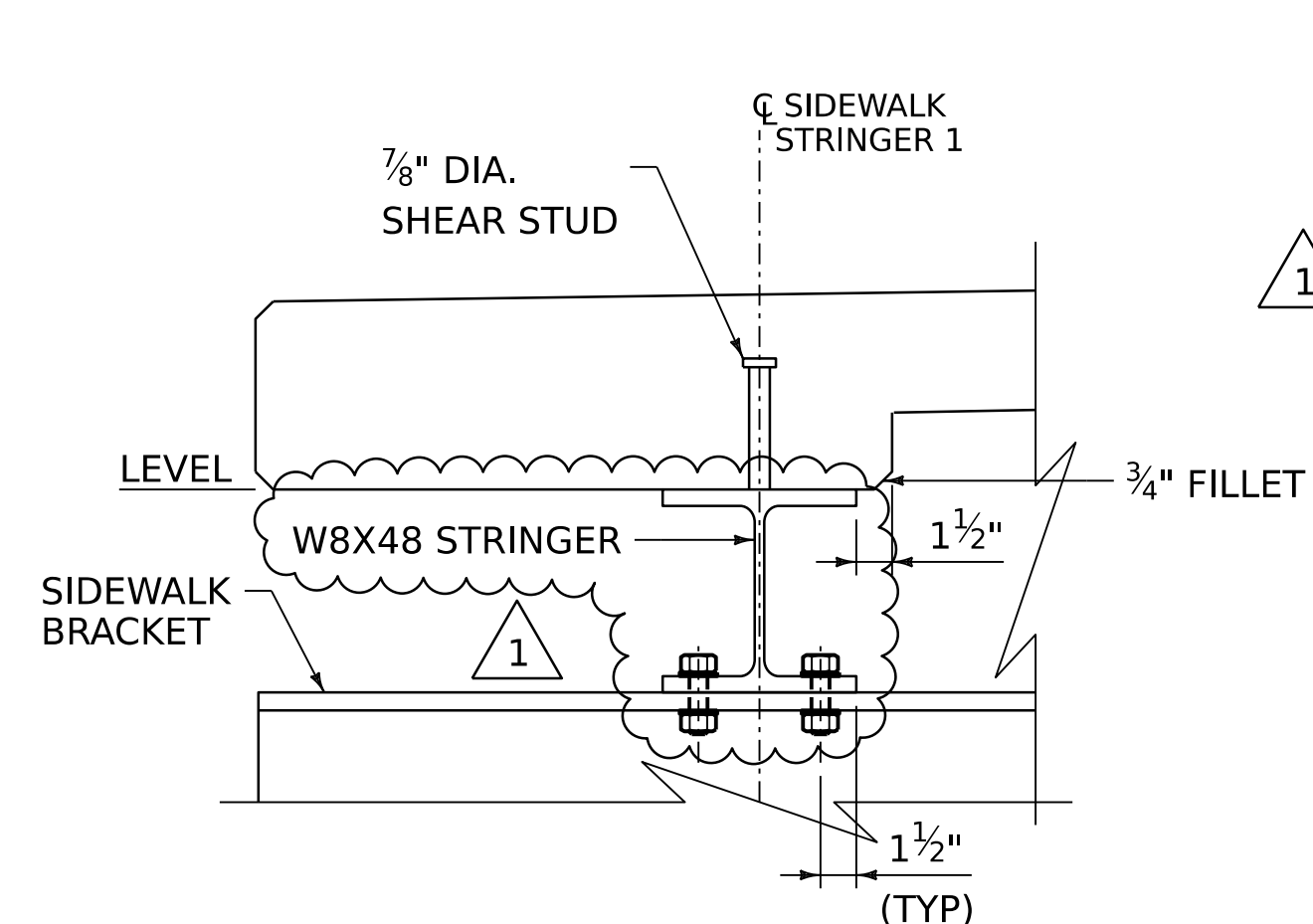


PROJECT NAME:	POULTNEY
PROJECT NUMBER:	BF 0145(13)
FILE NAME:	z21j164sidewalk.dgn
PROJECT LEADER:	J.D. KEENER
DESIGNED BY:	N.A. TRUSLOW
SIDEWALK BRACKET DETAILS (2 OF 2)	
PLOT DATE:	5/19/2025
DRAWN BY:	N.A. TRUSLOW
CHECKED BY:	J.D. KEENER
SHEET	51 OF 115



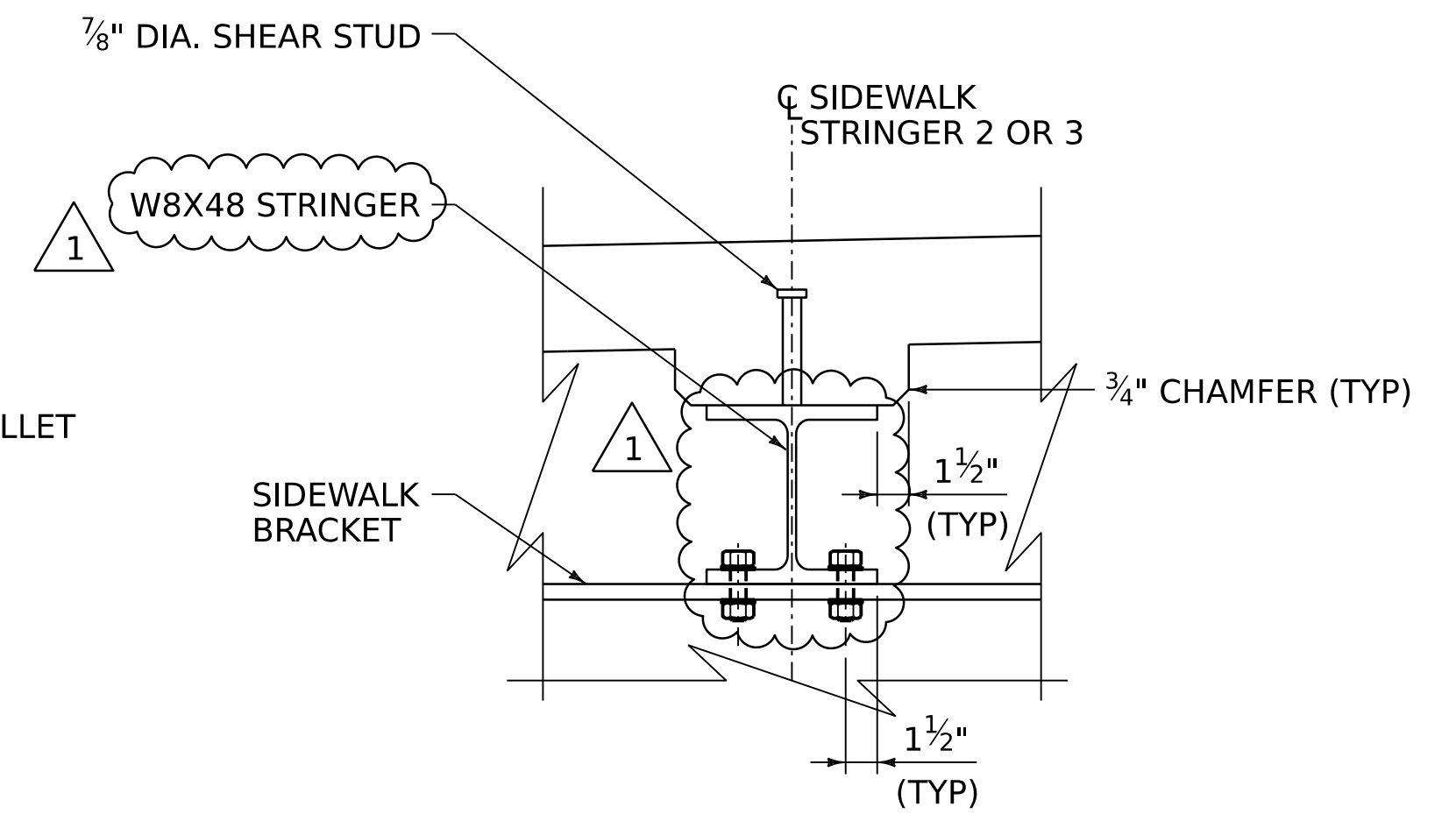
SIDEWALK STRINGER ELEVATION

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



SIDEWALK STRINGER 1 SECTION

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

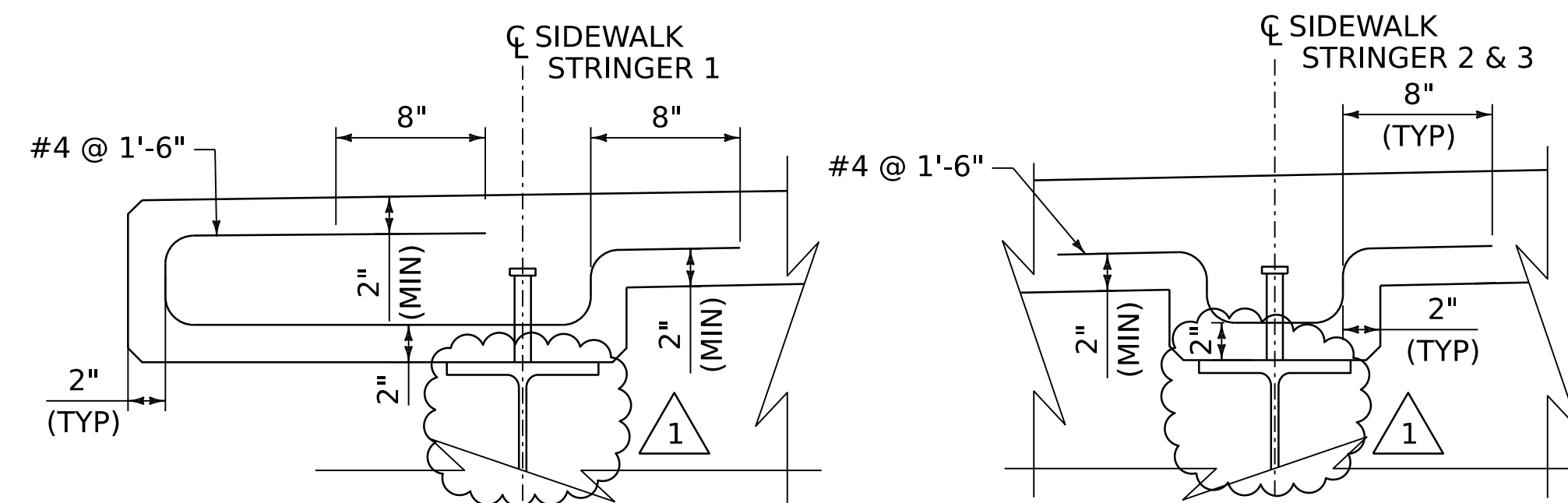


SIDEWALK STRINGER 2 & 3 SECTION

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

NOTES:

1. WHEN THE SIDEWALK STRINGER HAUNCH IS GREATER THAN 4" THICK, HAUNCHES SHALL BE REINFORCED PER THE REINFORCED HAUNCH DETAIL.
2. SIDEWALK STRINGER MEMBERS SHALL BE A MINIMUM OF 18'-0" LONG. MEMBERS SHALL TERMINATE AT SIDEWALK BRACKET LOCATIONS, AND THEY SHALL BE POSITIONED SUCH THAT ADJACENT STRINGER LINE MEMBERS DO NOT TERMINATE AT THE SAME SIDEWALK BRACKET.



REINFORCED HAUNCH DETAIL

SCALE 1 1/2"=1'-0"
NOTE: APPLICABLE FOR SIDEWALK HAUNCH DEPTHS OF 4" AND GREATER.

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	CHANGED STRINGERS TO W8X48	MSWT

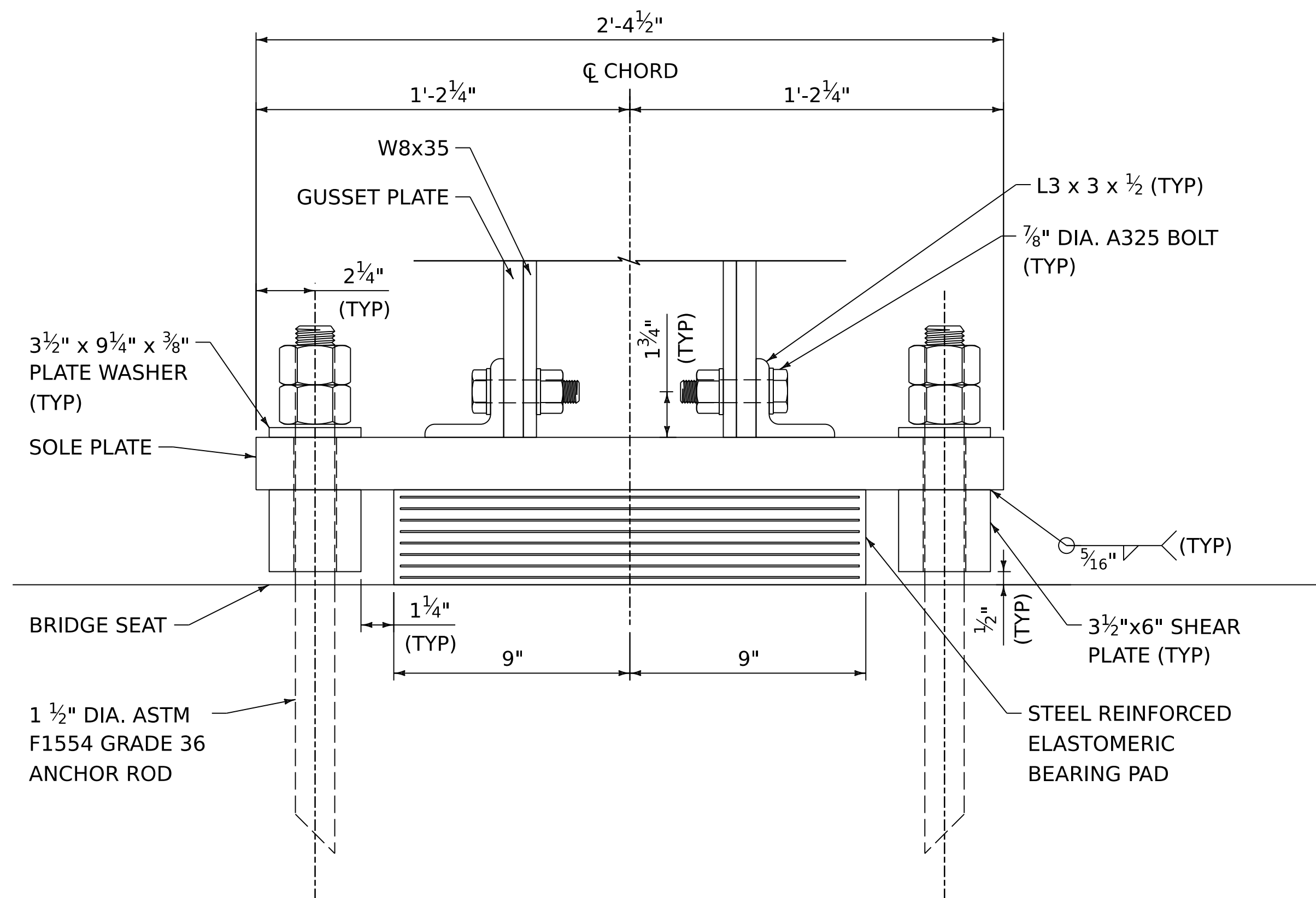


PROJECT NAME: **POULTNEY**
PROJECT NUMBER: **BF 0145(13)**

FILE NAME: z21j164sidewalk.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: N.A. TRUSLOW
SIDEWALK STRINGER DETAILS

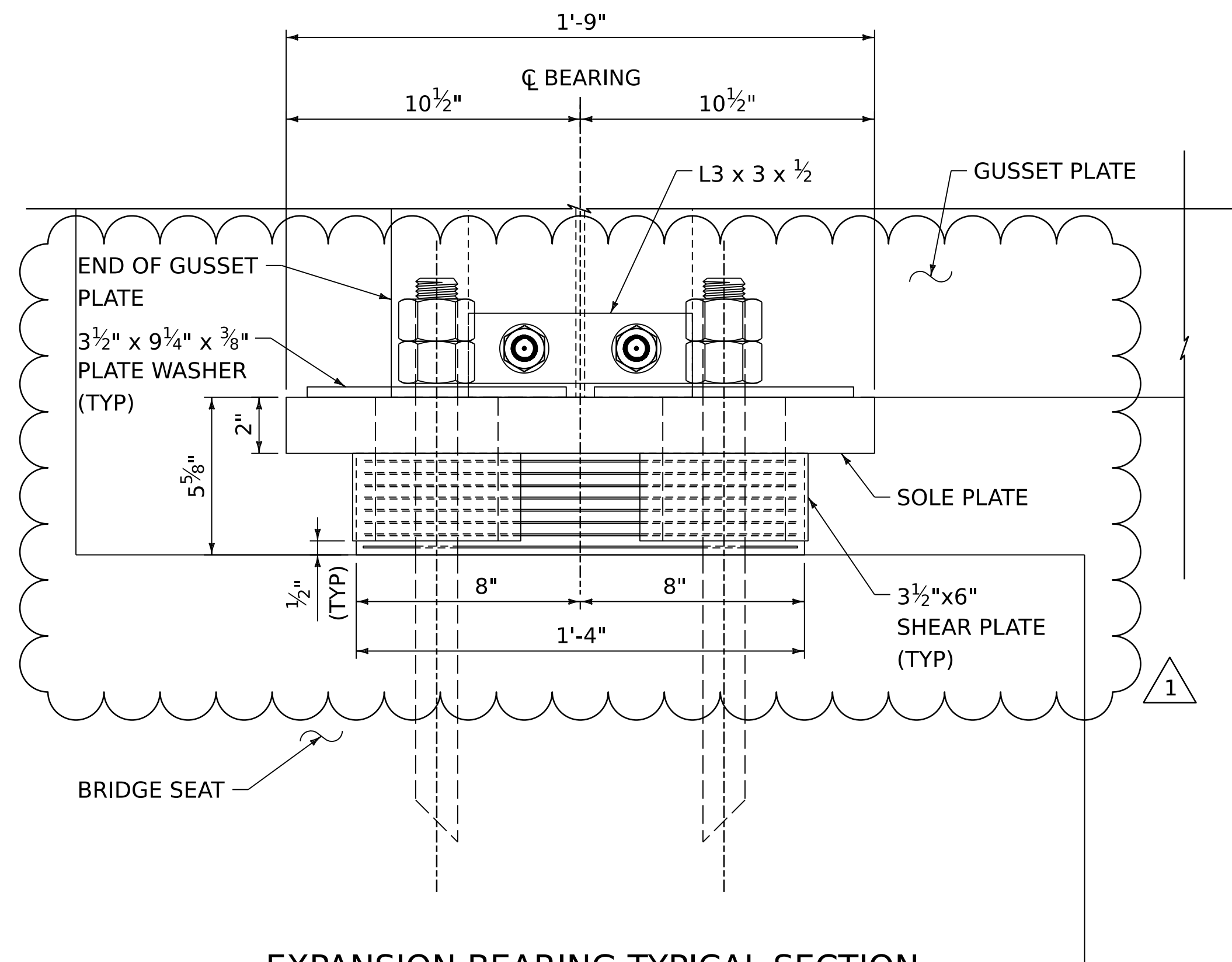
PLOT DATE: 5/19/2025
DRAWN BY: N.A. TRUSLOW
CHECKED BY: J.D. KEENER
SHEET 52 OF 115





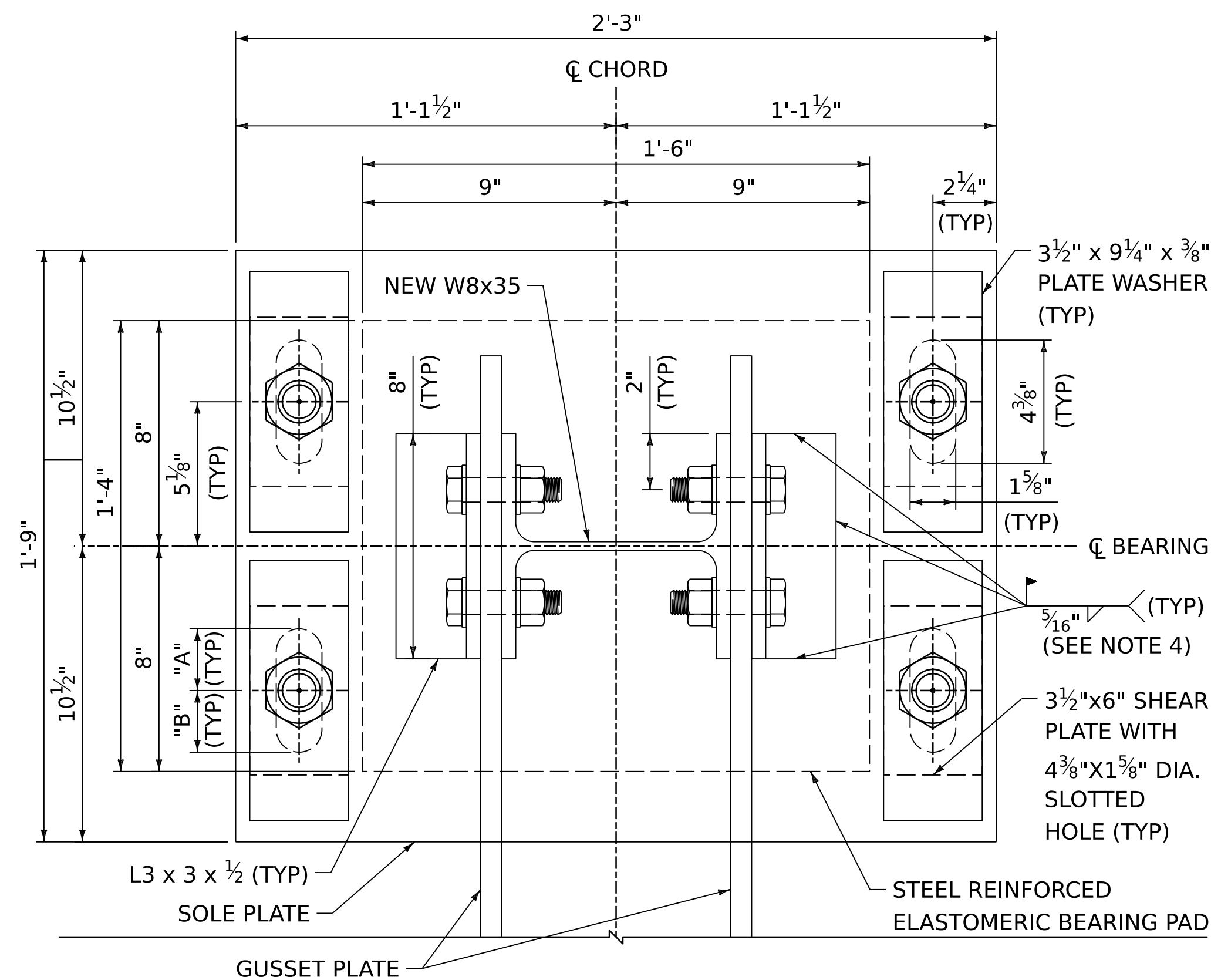
EXPANSION BEARING TYPICAL ELEVATION

SCALE 3" = 1'-0"



EXPANSION BEARING TYPICAL SECTION

SCALE 3" = 1'-0"



EXPANSION BEARING TYPICAL PLAN

SCALE 3" = 1'-0"

TEMPERATURE ADJUSTMENT TABLE		
TEMP (°F)	A DIST.	B DIST.
105	1 13/16"	1 15/16"
90	1 7/8"	2"
75	1 15/16"	2 1/16"
60	2 1/16"	2 1/4"
45	2 3/8"	2 3/16"
30	2 7/16"	2 5/16"
15	2 1/4"	2 3/8"
0	2 5/16"	2 7/16"
-20	2 7/16"	2 9/16"

ELASTOMERIC BEARING NOTES

- BEARINGS WILL BE PAID FOR UNDER ITEM 531.1800, "BEARING DEVICE ASSEMBLY, ELASTOMERIC PAD W/ EXT. LOAD PLATES" AND SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731.
- 7/8" DIA. BOLTS CONNECTING THE L3X3X1/2 CONNECTION ANGLES TO GUSSET PLATES SHALL BE TENSIONED IN ACCORDANCE WITH SECTION 506.
- THE STEEL SOLE PLATES SHALL BE HOT BONDED TO THE REINFORCED ELASTOMERIC PAD DURING THE VULCANIZATION PROCESS. THE STEEL SURFACES TO BE BONDED TO THE PAD SHALL NOT BE COATED.
- ONCE THE FULL DEAD LOAD HAS BEEN APPLIED TO THE BRIDGE, THE BRIDGE SHALL BE JACKED TO RELEASE LOAD FROM THE BEARINGS AND THEN RESET SO THAT THE BEARINGS ARE IN A NEUTRAL POSITION. THE CONTRACTOR SHALL MEET ALL OF THE REQUIREMENTS OF SECTION 502, INCLUDING THE SUBMITTAL OF CONSTRUCTION DRAWINGS. ALL MATERIALS AND WORK REQUIRED IN ORDER TO RESET BEARINGS SHALL BE INCIDENTAL TO THE STRUCTURAL STEEL ITEMS IN THE CONTRACT. UPON RESETTING THE BEARINGS THE ANGLES SHALL BE WELDED TO THE SOLE PLATE IN ACCORDANCE WITH SECTION 506 AND SECTION 531.
- DESIGN CRITERIA (AASHTO METHOD A):

DESIGN SHEAR MODULUS: 80-175 PSI
MAXIMUM BEARING STRESS: 1433 PSI
DESIGN DEAD LOAD (UNFACTORED): 158 KIPS
DESIGN LIVE LOAD (UNFACTORED): 120 (INCL. IMP) KIPS
DESIGN LONGITUDINAL MOVEMENT: 1.42 IN (ABUT 2)

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	REMOVED SOLE PLATE BEVEL	MSWT

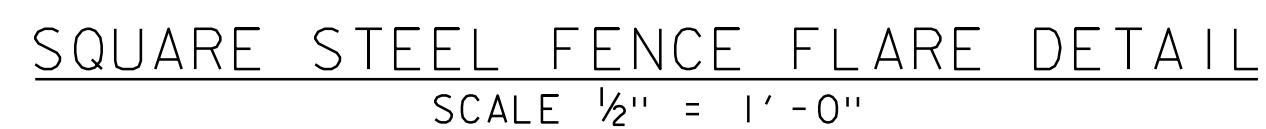
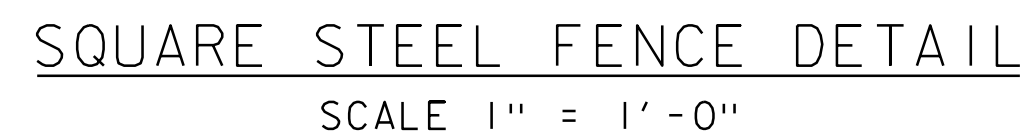


PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(I3)

FILE NAME: z2lj64bearing.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: M.S.W. THISTLE
BEARING DETAILS (2 OF 2)

PLOT DATE: 5/19/2025
DRAWN BY: M.S.W. THISTLE
CHECKED BY: R.H. BARNES
SHEET 65 OF 115

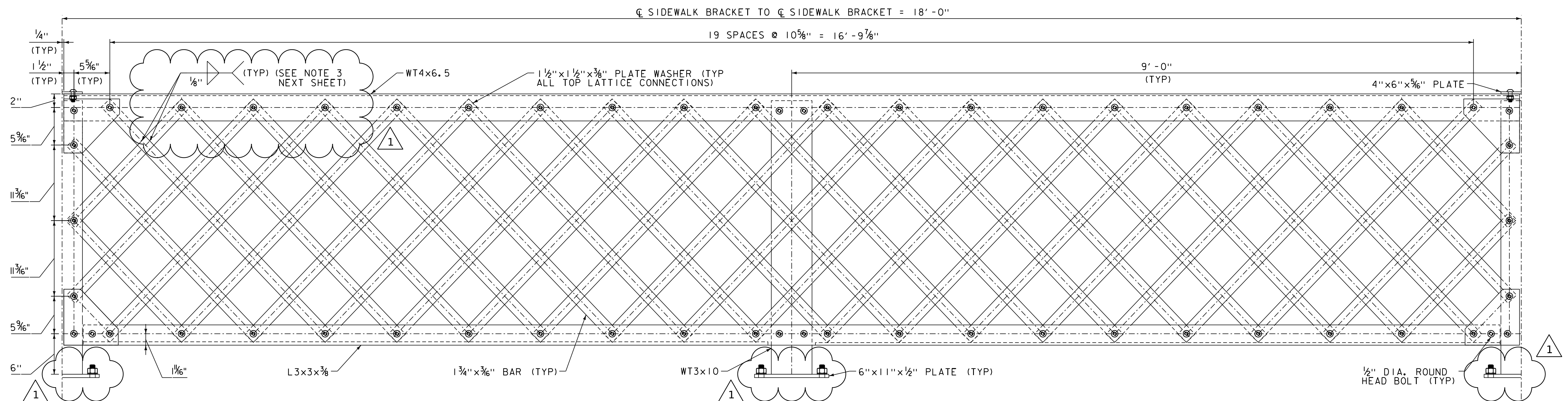
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A PEDESTRIAN FENCE AT THE LOCATIONS INDICATED IN THE PLANS AND MEETING THE REQUIREMENTS SPECIFIED. VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED, PROVIDED THAT THEY MEET THE DESIGN REQUIREMENTS OF AASHTO SECTION 13.8
2. IN ACCORDANCE WITH SECTION 105 FABRICATION DRAWINGS FOR THE SQUARE STEEL FENCE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. PAYMENT FOR ALL COSTS ASSOCIATED WITH FABRICATION DRAWINGS WILL BE MADE UNDER ITEM 620.8200 "SQUARE STEEL FENCE".
3. MATERIALS FOR PEDESTRIAN FENCE SHALL MEET THE REQUIREMENTS OF SECTION 620 AND THE FOLLOWING:.
 - THE ANCHOR BOLTS, WASHERS, AND HEAVY HEX NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 714.07
 - POSTS AND SPINDLES SHALL CONFORM TO SUBSECTION 714.11.
4. WELDING SHALL MEET THE REQUIREMENTS OF SECTION 506.10 OF THE STANDARD SPECIFICATIONS.
5. UNLESS OTHERWISE APPROVED, ANCHOR BOLTS ARE SCREWED INTO GALV. INSERTS CAST INTO THE CONCRETE WINGWALLS.
6. 6'-0" POST SPACING SHOWN. CONTRACTOR MAY SUBMIT ALTERNATIVE FOR APPROVAL.
7. CUT EDGES SHALL BE GROUND FREE OF BURRS AND RAGGED EDGES. EXPOSED ENDS, IF ANY, SHALL BE COPED.
8. ALL MATERIALS PROVIDED UNDER ITEM 620.8200 "SQUARE STEEL FENCE" SHALL BE POWDER COATED IN ACCORDANCE WITH SUBSECTION 506.22 OF THE SPECIFICATIONS. THE FINAL COLOR OF THESE ITEMS SHALL BE BLACK. PAYMENT FOR ALL COSTS ASSOCIATED WITH POWDER COATING WILL BE INCLUDED IN ITEM 620.8200 "SQUARE STEEL FENCE" AND SHALL NOT BE PAID FOR SEPARATELY.
9. THE SQUARE STEEL FENCE SHALL FLARE SO THAT THE FRONT FACE OF THE FENCE TRANSITIONS TO MATCH THE FRONT FACE OF THE PEDESTRIAN BRIDGE RAILING. THE RATE OF TRANSITION SHALL NOT EXCEED 1 FT OVER 8 FT AND THE GAP BETWEEN THE END OF THE FENCE AND THE PEDESTRIAN RAILING SHALL BE NO GREATER THAN 4".
10. PAYMENT FOR ALL COSTS ASSOCIATED WITH THE SQUARE STEEL FENCE AND TRANSITION PIECES WILL BE MADE UNDER ITEM 620.8200 "SQUARE STEEL FENCE".



ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	ADDED FENCE TRANSITION DETAIL, UPDATED NOTES	MSW

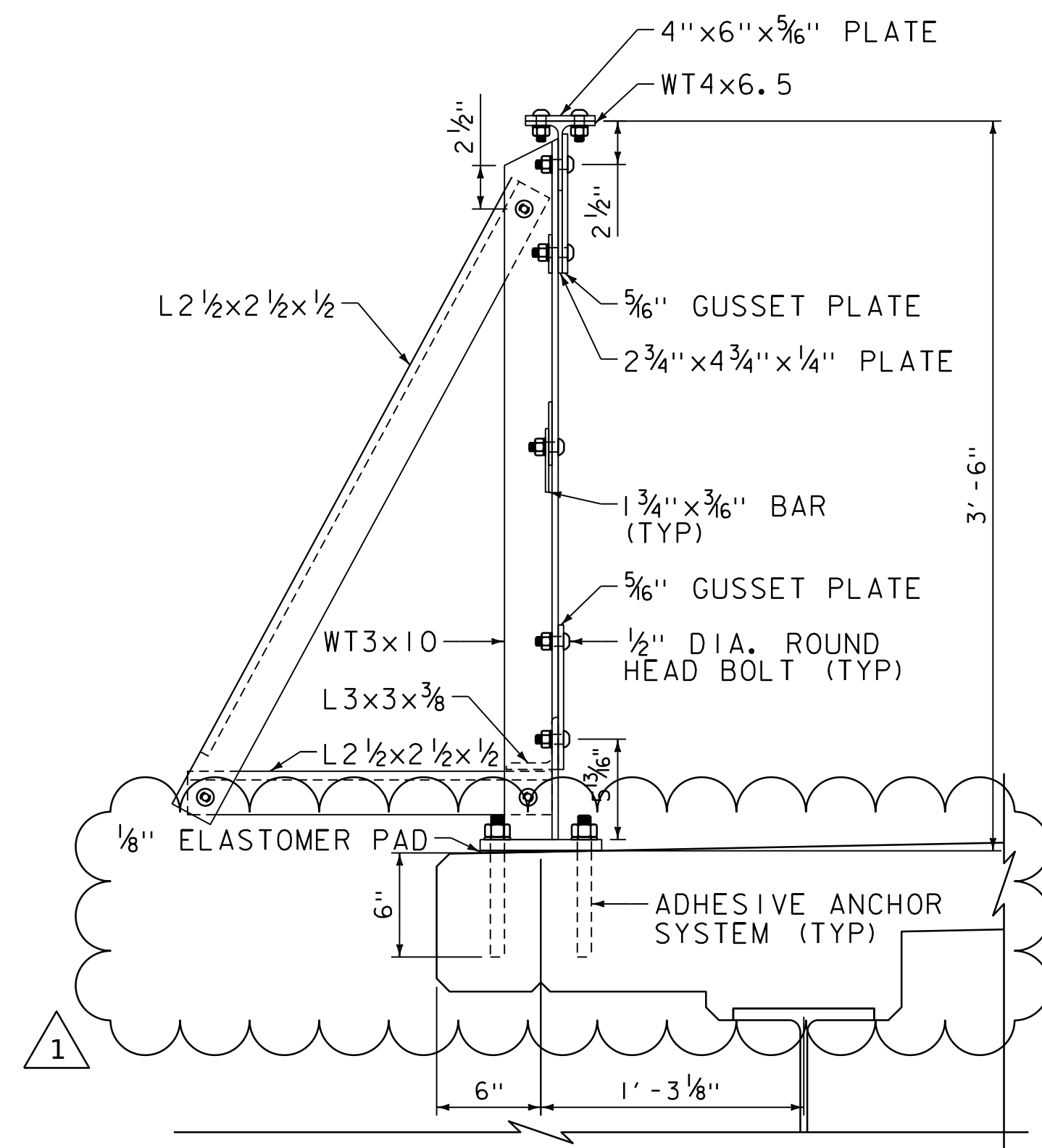


PROJECT NAME: POULTNEY	
PROJECT NUMBER: BF 0145(I3)	
FILE NAME: z21j164pedrail.dgn	PLOT DATE: 5/19/2025
PROJECT LEADER: J.D. KEENER	DRAWN BY: M.S.W. THISTLE
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: VHB
PEDESTRIAN FENCE DETAILS	SHEET 79 OF 115



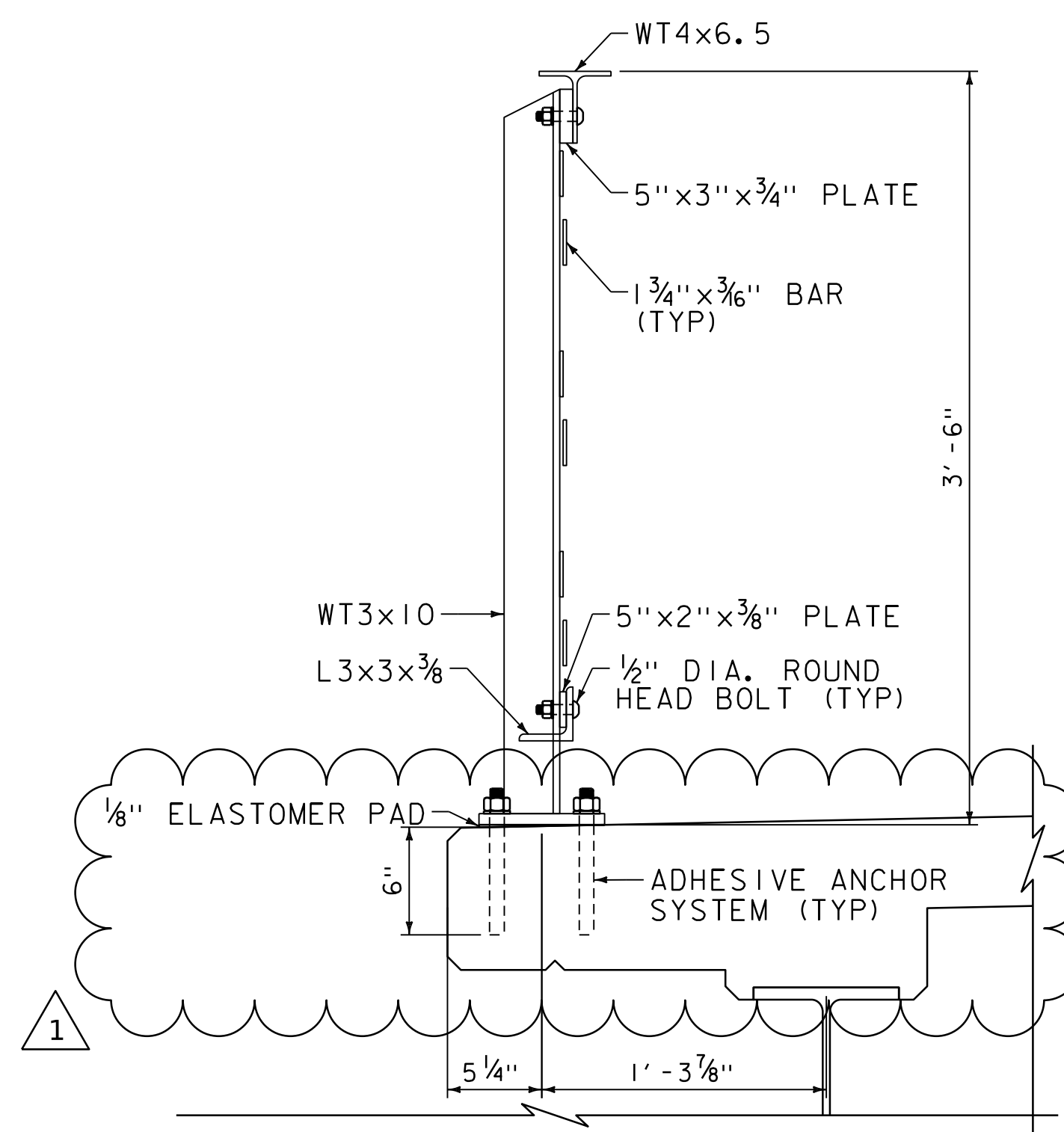
PEDESTRIAN BRIDGE RAILING DETAIL

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



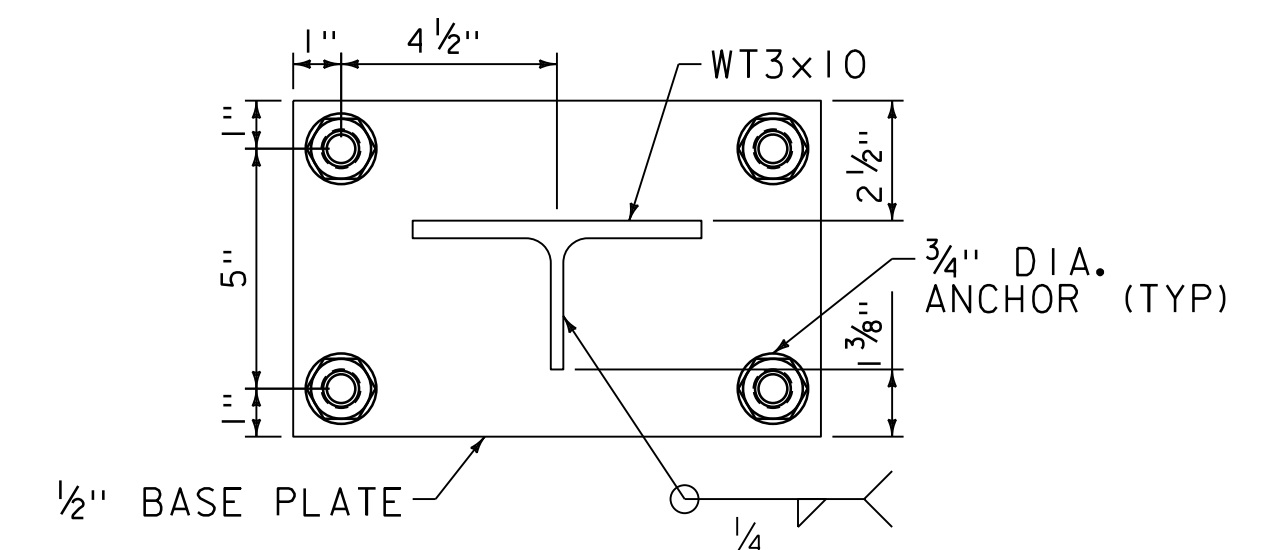
PEDESTRIAN BRIDGE RAILING POST
SECTION AT SIDEWALK BRACKET

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



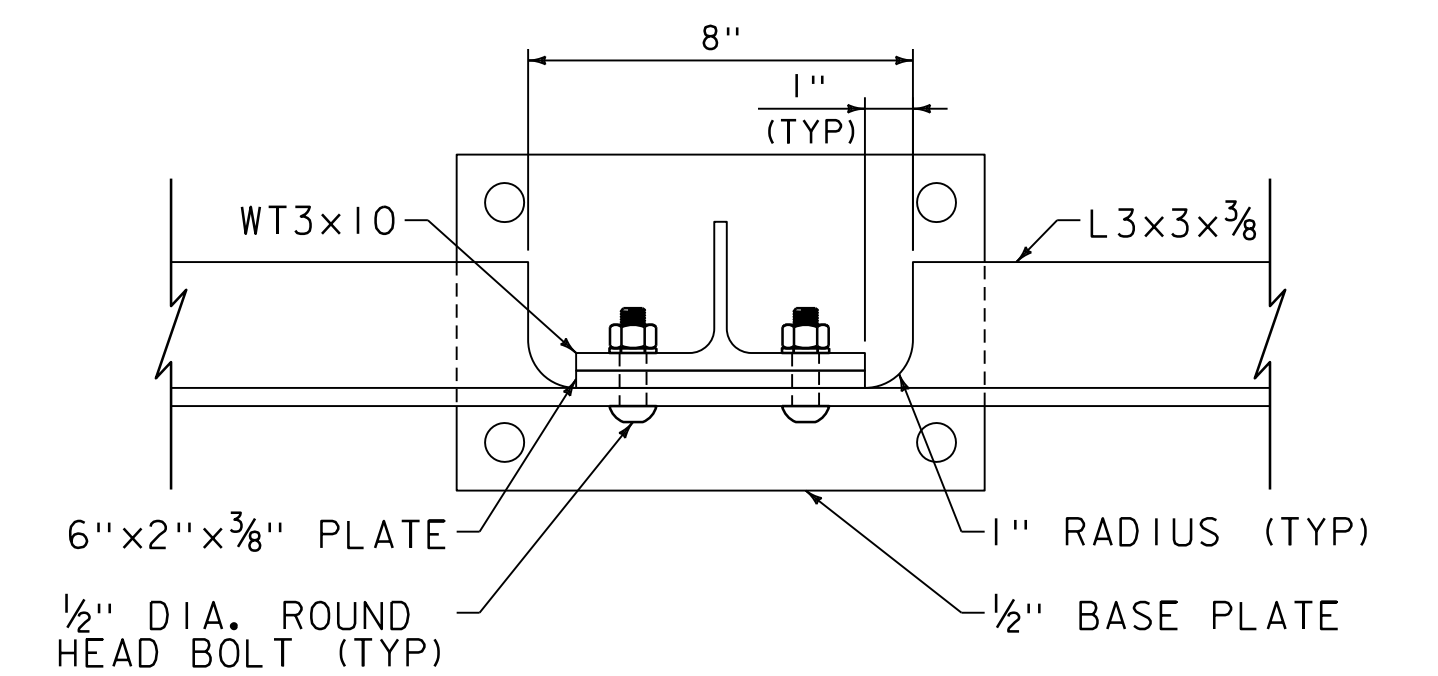
PEDESTRIAN BRIDGE RAILING
INTERMEDIATE POST SECTION

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



POST BASE DETAIL

SCALE 3" = 1' - 0"



INTERMEDIATE POST CONNECTION DETAIL

SCALE 3" = 1' - 0"

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	ADJUSTED ANCHORAGE TO ACCOMMODATE POST-INSTALLED ANCHORS, ADDED WELD TO ALL SIDES OF LATTICE CROSS, CHANGED "END POST" TO "POST AT SIDEWALK BRACKET"	MSWT



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(I3)

FILE NAME: z21j64pedrail.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: M.S.W. THISTLE
PEDESTRIAN RAIL DETAILS (10 OF 2)

PLOT DATE: 5/19/2025
DRAWN BY: M.S.W. THISTLE
CHECKED BY:
SHEET 80 OF 115

1

NOTES:

1. BOLTED CONNECTIONS FOR THE PEDESTRIAN RAILING SHALL BE MADE USING TENSION CONTROL ASSEMBLIES WITH 1/2" DIA. ROUND HEAD BOLTS MEETING THE REQUIREMENTS OF SECTION 714.13.

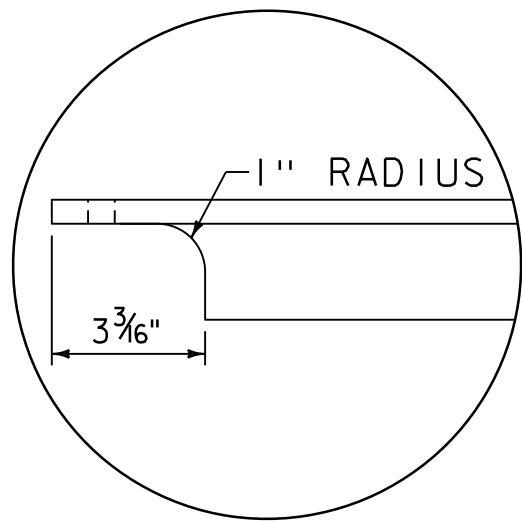
2. ADHESIVE ANCHOR SYSTEM SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THE ADHESIVE ANCHOR SYSTEM SHALL BE APPROPRIATE FOR COLD WEATHER CLIMATES AND SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

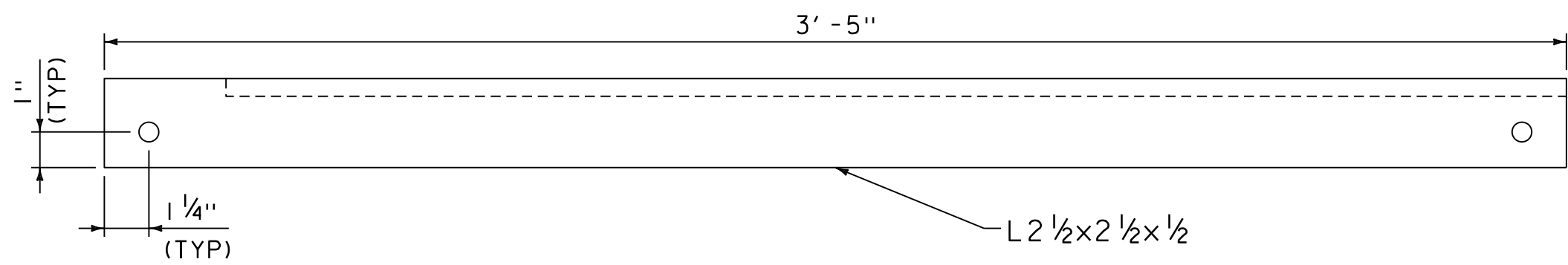
- ANCHORS AND REQUIRED HARDWARE SHALL BE GALVANIZED AND MEET THE REQUIREMENTS OF SECTION 714.08 OF THE SPECIFICATIONS.
- ANCHORS SHALL BE 3/4" DIA.
- ANCHORAGE SYSTEM SHALL BE CAPABLE OF PROVIDING A MINIMUM OF 5 KIPS TENSION AND 0.5 KIPS SHEAR RESISTANCE PER ANCHOR, WITH THE EMBEDMENT AND EDGE DISTANCES SHOWN IN THE PLANS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH THE ADHESIVE ANCHOR SYSTEM WILL BE PAID UNDER ITEM 525.6100, "BRIDGE RAILING, METAL TRUSS BRIDGE".

3. WELDS FOR LATTICE BAR CONNECTIONS SHALL TERMINATE AS CLOSE AS PRACTICAL TO ALL EDGES WITHOUT DAMAGING THE BARS.

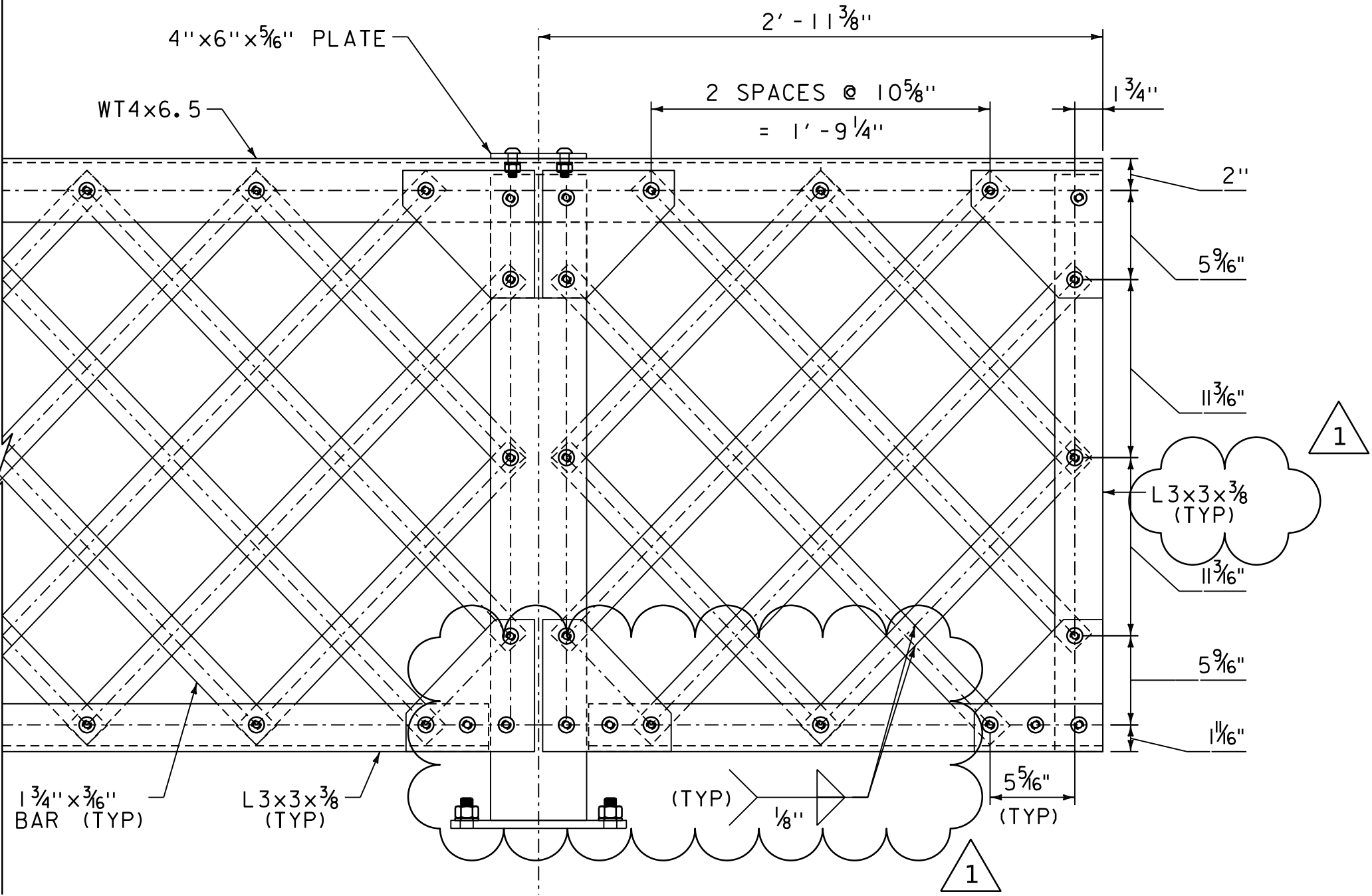


COPE DETAIL



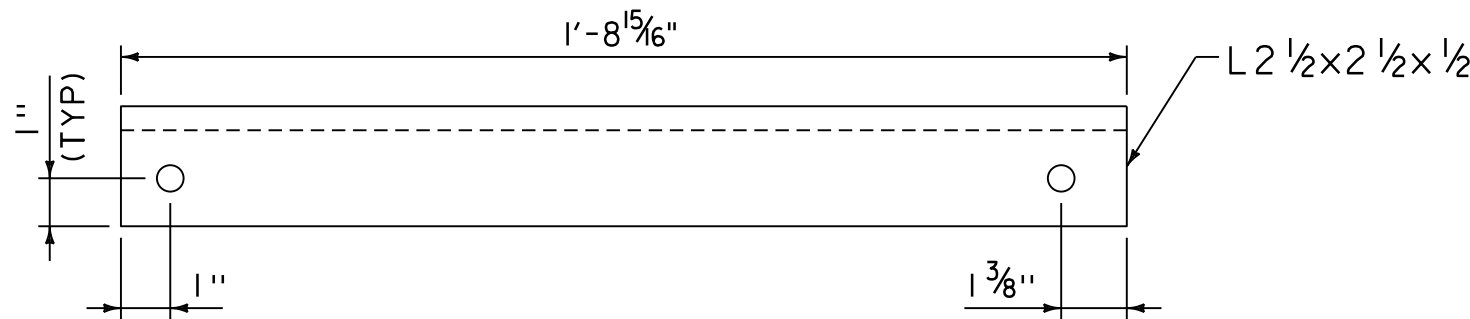
TOP ANGLE BRACKET DETAIL

SCALE 3" = 1'-0"



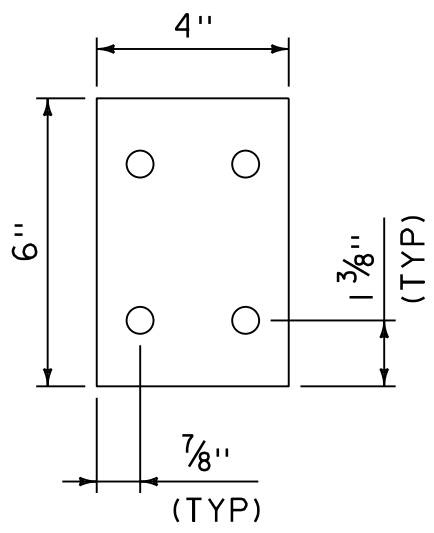
PEDESTRIAN BRIDGE RAILING END POST SECTION

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



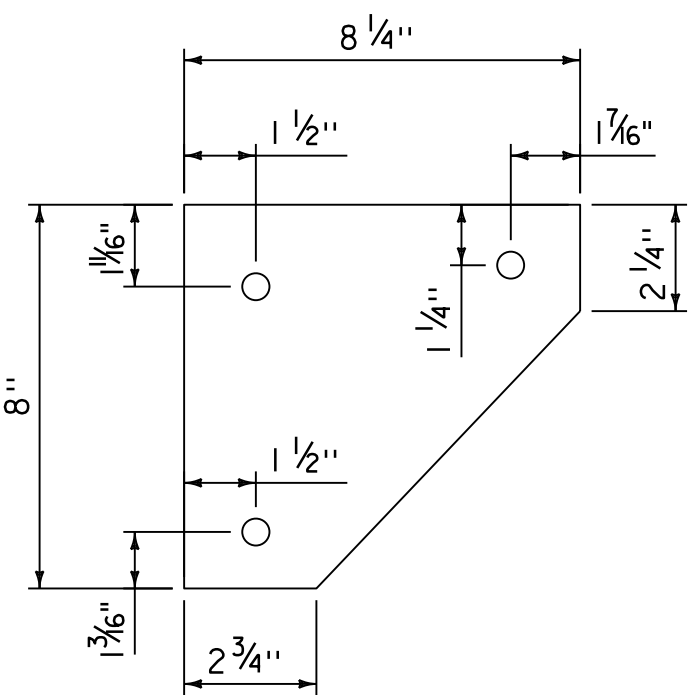
BOTTOM ANGLE BRACKET DETAIL

SCALE 3" = 1'-0"



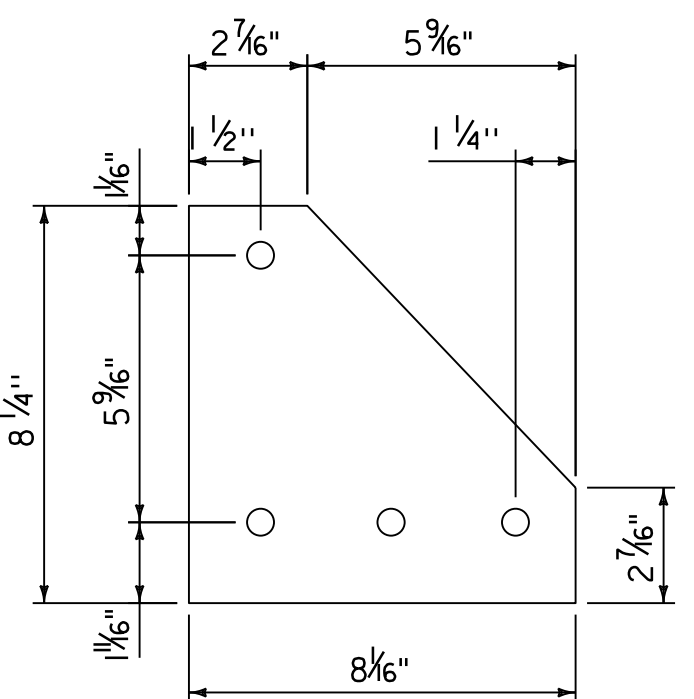
TOP PLATE DETAIL

SCALE 3" = 1'-0"



TOP GUSSET PLATE DETAIL

SCALE 3" = 1'-0"



BOTTOM GUSSET PLATE DETAIL

SCALE 3" = 1'-0"

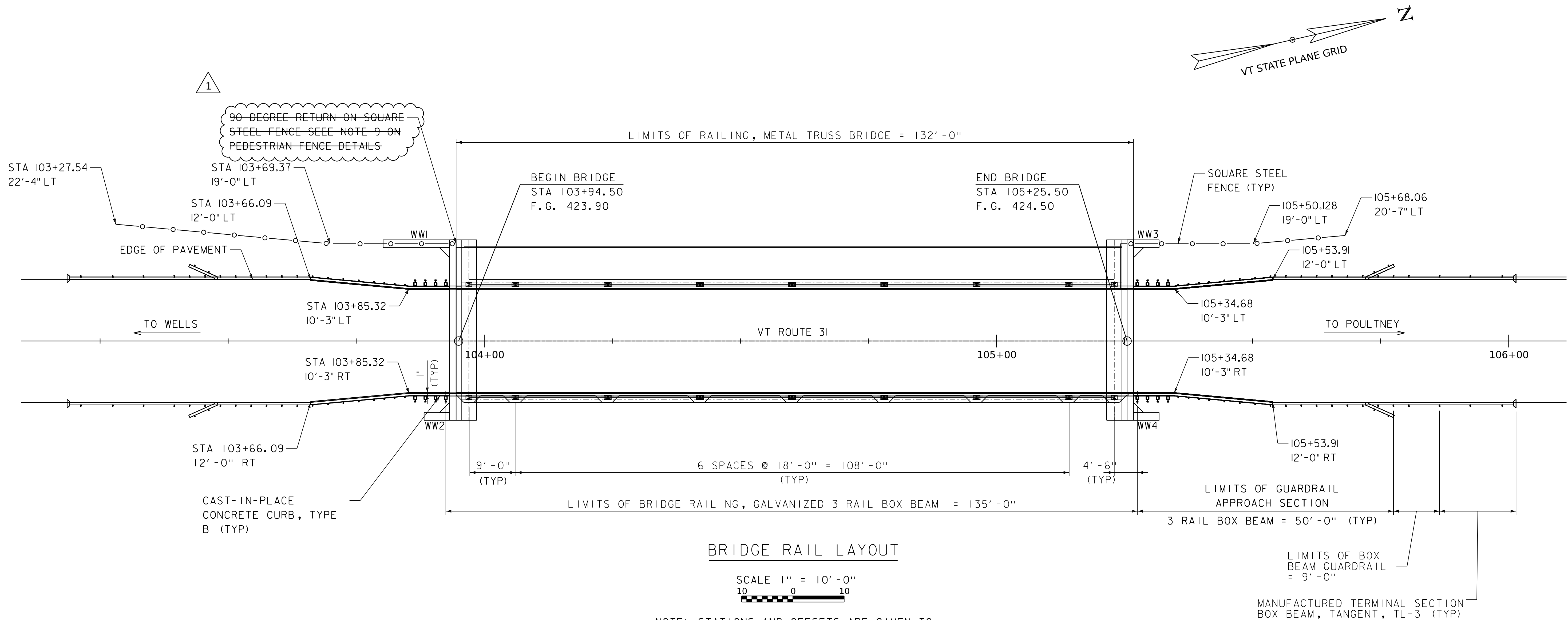
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	5/19/2025	ADJUSTED ANCHORAGE TO ACCOMODATE POST-INSTALLED ANCHORS, ADDED WELD TO ALL SIDES OF LATTICE CROSS, UPDATED NOTES	MSWT



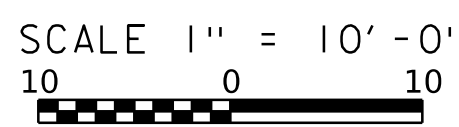
PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(I3)

FILE NAME: z2lj64pedrail.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: M.S.W. THISTLE
PEDESTRIAN RAIL DETAILS (2 OF 2)

PLOT DATE: 5/19/2025
DRAWN BY: M.S.W. THISTLE
CHECKED BY:
SHEET 81 OF 115



BRIDGE RAIL LAYOUT

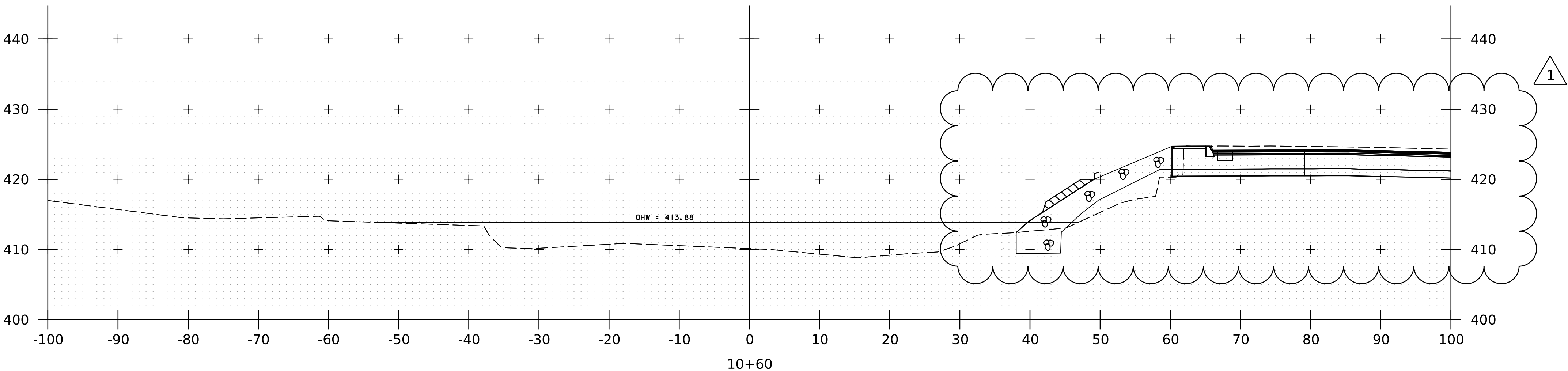
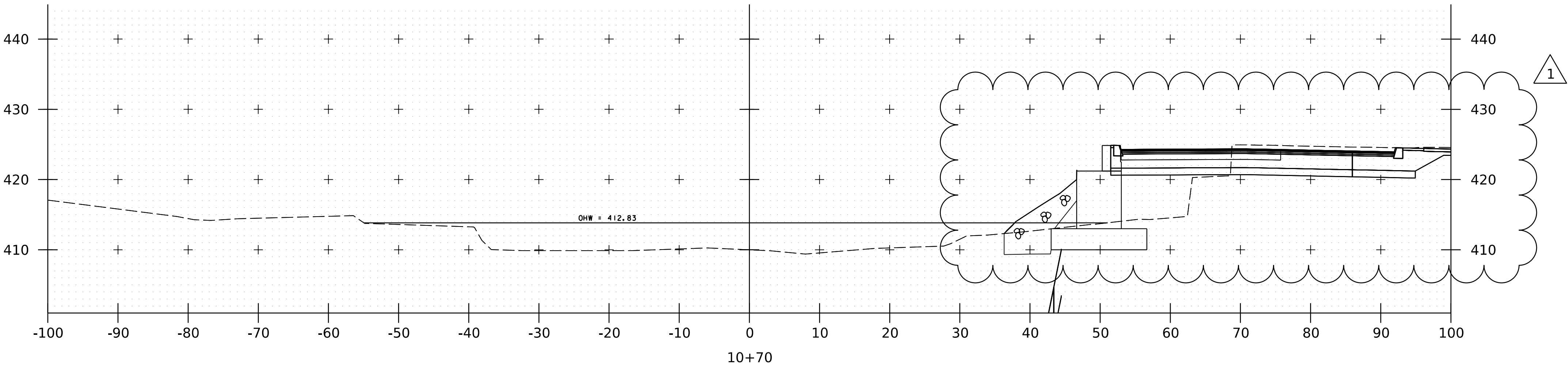


NOTE: STATIONS AND OFFSETS ARE GIVEN TO THE FACE OF RAILING. FACE OF CURB IS 2" OFFSET FROM FACE OF RAILING (SEE TYPICAL SECTIONS).

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	CALL OUT FOR 90 DEGREE RETURN REMOVED	MSWT



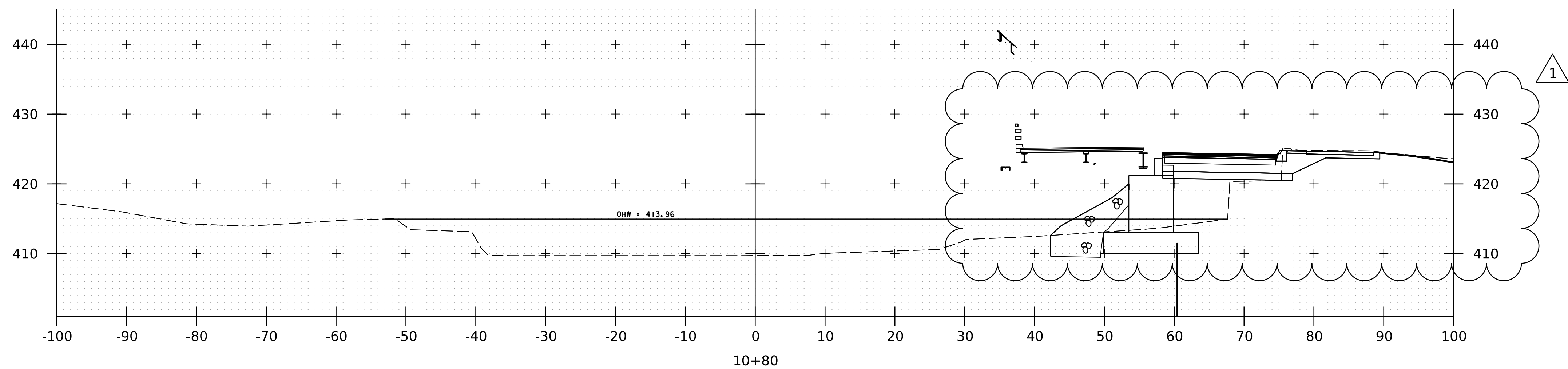
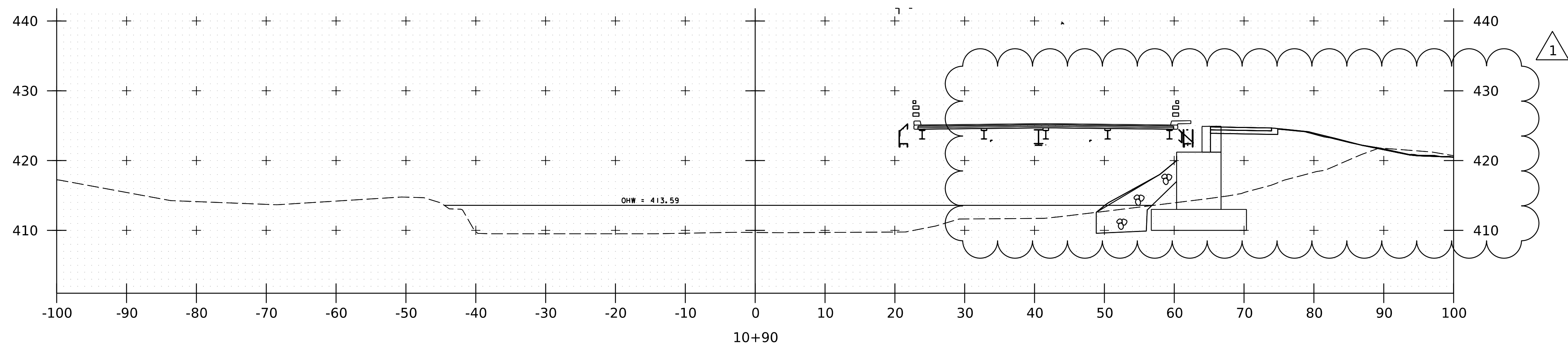
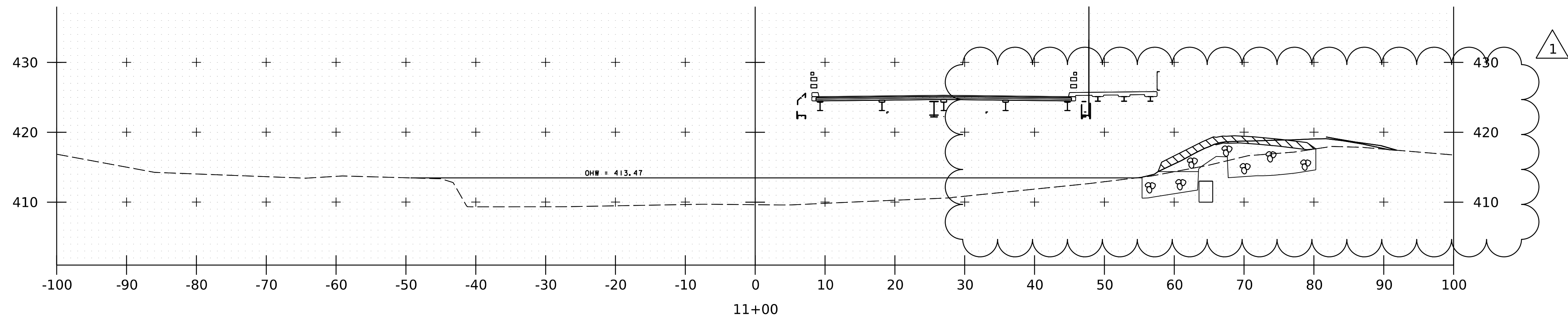
PROJECT NAME: POULTNEY	PLOT DATE: 19-MAY-2025
PROJECT NUMBER: BF 0145(I3)	DRAWN BY: E.M. CORREDERA
FILE NAME: z2lj64brail.dgn	CHECKED BY: T.D. BURT
PROJECT LEADER: J.D. KEENER	SHEET 82 OF 115
DESIGNED BY: J.D. KEENER	
BRIDGE RAILING AND GUARDRAIL LAYOUT	



POULTNEY RIVER CROSS SECTIONS
STA. 10+60 - 10+70
SCALE 1" = 10' - 0"



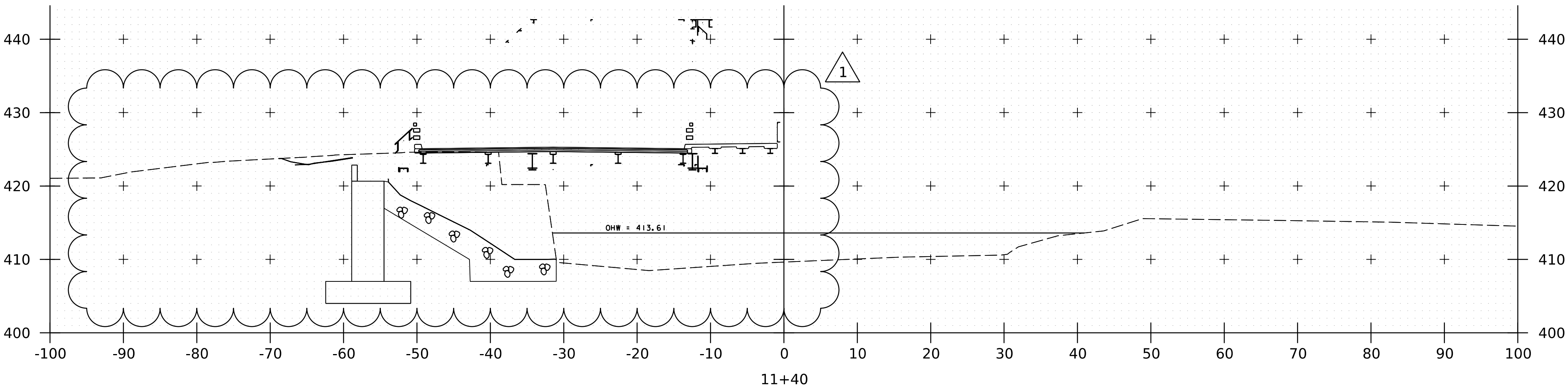
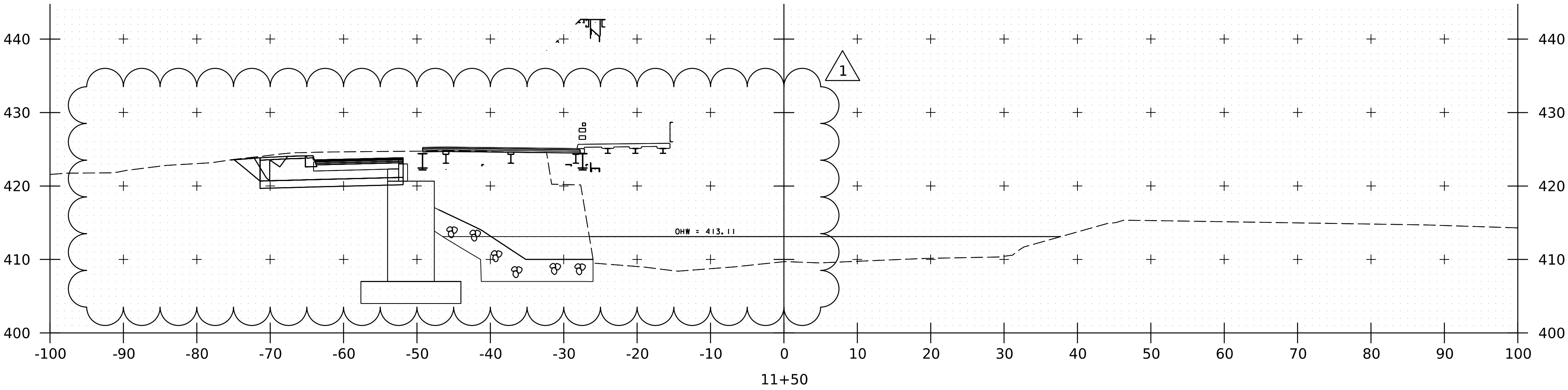
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	UPDATED FOR CURRENT ABUTMENT MODEL	MSWT
PROJECT NAME: POULTNEY				
PROJECT NUMBER: BF 0145(I3)				
FILE NAME: z2lj64xs_channel.dgn			PLOT DATE: 19-MAY-2025	
PROJECT LEADER: J.D. KEENER			DRAWN BY: T.D. BURT	
DESIGNED BY: N.A. TRUSLOW			CHECKED BY: J.D. KEENER	
CHANNEL CROSS SECTIONS SHEET (2 OF 8)			SHEET 93 OF 115	



POULTNEY RIVER CROSS SECTIONS
STA. 10+80 - 11+00
SCALE 1" = 10'-0"



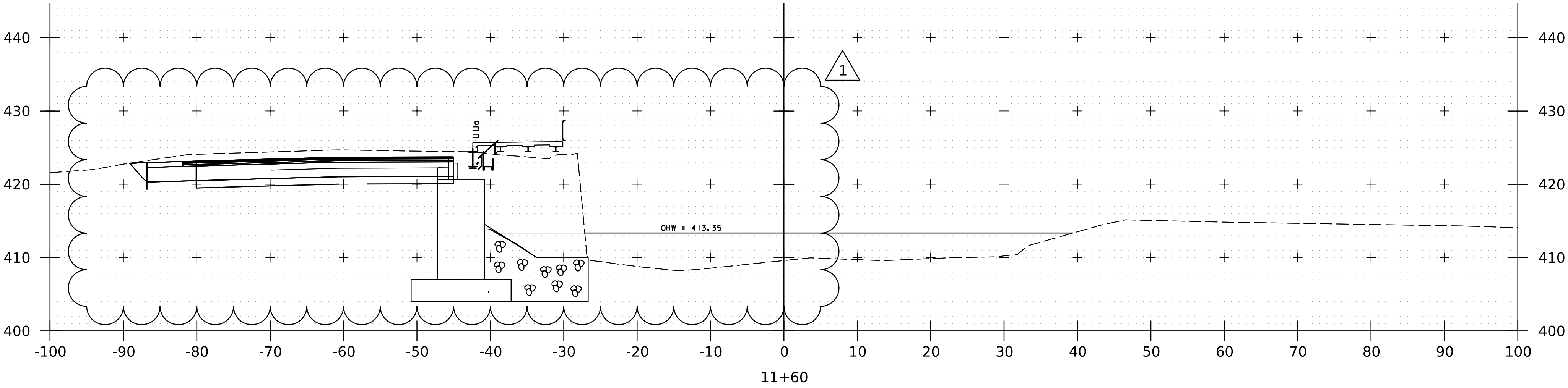
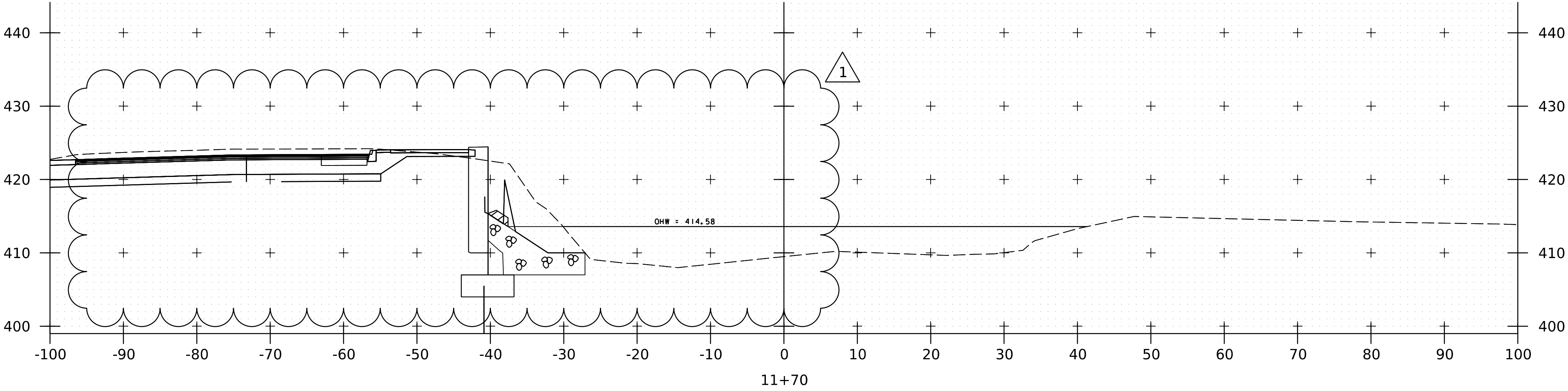
ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	UPDATED FOR CURRENT ABUTMENT MODEL	MSWT
PROJECT NAME: POULTNEY				
PROJECT NUMBER: BF 0145(I3)				
FILE NAME: z2lj64xs_channel.dgn			PLOT DATE: 19-MAY-2025	
PROJECT LEADER: J.D. KEENER			DRAWN BY: T.D. BURT	
DESIGNED BY: N.A. TRUSLOW			CHECKED BY: J.D. KEENER	
CHANNEL CROSS SECTIONS SHEET (3 OF 8)			SHEET 94 OF 115	



POULTNEY RIVER CROSS SECTIONS
STA. 11+40 - 11+50
SCALE 1" = 10' - 0"



ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	UPDATED FOR CURRENT ABUTMENT MODEL	MSWT
PROJECT NAME: POULTNEY				
PROJECT NUMBER: BF 0145(13)				
FILE NAME: z2lj64xs_channel.dgn			PLOT DATE: 19-MAY-2025	
PROJECT LEADER: J.D. KEENER			DRAWN BY: T.D. BURT	
DESIGNED BY: N.A. TRUSLOW			CHECKED BY: J.D. KEENER	
CHANNEL CROSS SECTIONS SHEET (5 OF 8)			SHEET 96 OF 115	



POULTNEY RIVER CROSS SECTIONS

STA. 11+60 - 11+70

SCALE 1" = 10' - 0"



ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
1	1	19-MAY-2025	UPDATED FOR CURRENT ABUTMENT MODEL	MSWT
PROJECT NAME: POULTNEY				
PROJECT NUMBER: BF 0145(13)				
FILE NAME: z2lj64xs_channel.dgn			PLOT DATE: 19-MAY-2025	
PROJECT LEADER: J.D. KEENER			DRAWN BY: T.D. BURT	
DESIGNED BY: N.A. TRUSLOW			CHECKED BY: J.D. KEENER	
CHANNEL CROSS SECTIONS SHEET (6 OF 8)			SHEET 97 OF 115	

SPECIAL PROVISIONS

1. **NOTICE TO BIDDERS – CONTRACT COMPLETION DATE.** This Contract shall be completed on or before August 27, 2027.
2. **NOTICE TO BIDDERS – INTERIM COMPLETION DATE.** The Contractor shall complete installation of the temporary bridge, onsite detour, traffic control, and direct traffic onto the temporary onsite detour on Vermont Route 31 (T.H. No. 1) at Bridge No. 4 in the Town of Poultney on or before December 1, 2025.

All work specified in the Plans for the temporary onsite detour shall be completed prior to directing traffic onto the temporary onsite detour, including but not limited to the temporary bridge, temporary roadway, temporary traffic barrier and attenuators, temporary line striping, temporary traffic control signs, temporary traffic control signal system, driveway assistance devices, temporary pedestrian walkway and railing, and temporary screening fence.

If this interim completion date is not met, liquidated damages in the amount of 20% of the applicable rate specified in Table 108.12A will be assessed in accordance with Subsection 108.12(b).

3. **NOTICE TO BIDDERS – PROHIBITION OF RUSSIAN GOODS.** The Contractor is hereby notified that, pursuant to Vermont Executive Order No. 02-22, dated March 3rd, 2022, the purchase of Russian-sourced goods and goods produced by Russian entities (defined as institutions or companies that are headquartered in Russia or have their principal place of business in Russia) is prohibited. The awarded Contractor must fill out and sign the Executive Order 02-22 Vendor Certification as part of Contract awarding process.
4. **NOTICE TO BIDDERS – SUPERSTRUCTURE WORK REQUIREMENTS.** The Contractor is hereby notified that in addition to all requirements in Section 529, the following requirements are included in the Contract.

The Contractor may shore the superstructure in-place or elect to move the superstructure to an approved staging area to complete the repairs. Temporary shoring of the superstructure required for partial removal of the structure and repair work shall meet the requirements of Section 502. The work shall consist of designing and supporting the superstructure in a “No Load” condition during the repairs. A “No Load” condition of the superstructure is defined as a condition that removes loading and stresses on members that provide structural support of the overall bridge, and any other loads that could induce deflection or strain of the trusses and members. Only minimal loads due to individual self-weight of the members shall be allowed.

All costs associated with the use of VTrans Portal will be considered incidental to the appropriate Section 406 and Section 407 pay items. The Agency will manage the VTrans Portal application including Contract setup upon Contract execution.

To create an account, connect to the VTrans Portal, and for more information regarding the use of VTrans Portal see the information at the following link: <https://www.haulhub.com/vermont-agency-transport-22/>

9. NOTICE TO BIDDERS – CONTACT WITH THE AGENCY. From the time of advertising until the actual bid opening for this Contract, all prospective Contractors, subcontractors, and suppliers shall direct all inquiries related to this Contract solely to the Agency's Contract Administration Section at AOT.ConstructionContractingInquiry@vermont.gov.

The deadline for submitting inquiries related to this Contract is 4:30 p.m. Eastern Time on ~~May 28, 2025~~ **June 4, 2025**. Inquiries received prior to this time will receive a response from the Agency. Inquiries received after this time may receive a response at the Agency's discretion.

10. NOTICE TO BIDDERS – OTHER SPECIFICATIONS AND CONTRACT REQUIREMENTS.

404 Corps of Engineers Permit

ACT 250 Land Use Permit - Pending

ANR RME Consultation

Construction Stormwater Permit

Flood Hazard Area and River Corridor Permit

State Wetland Permit

Impact Plans

FHWA 1273 – Required Contract Provisions for Federal Aid Construction Contracts

USDOL Davis Bacon Wage Rates by County

Disadvantaged Business Enterprise (DBE) Policy Contract Requirements - CR-110

Attachment C - Standard State Provisions for Contracts and Grants

USDOT Standard Title VI Nondiscrimination Assurances Appendices A, E

Standard Federal Equal Employee Opportunity (EEO) Construction Contract Specifications CA26

Contractor Equal Employment Opportunity (EEO) Certification Form – CA109

Vermont Agency of Transportation Certificate of Compliance – CA271

Vermont Agency of Transportation Minimum Labor and Truck Rates – CA101

Commodity Index Prices – CA170

Schedule of Pay Items

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

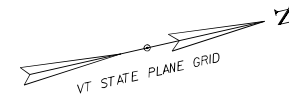
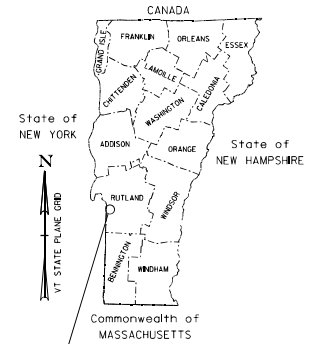
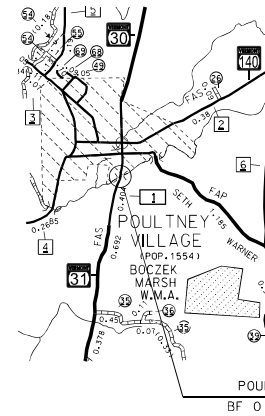
TOWN OF POULTNEY
COUNTY OF RUTLAND

VERMONT ROUTE 31 (MAJOR COLLECTOR, CLASS I TOWN HIGHWAY), BRIDGE NO. 4

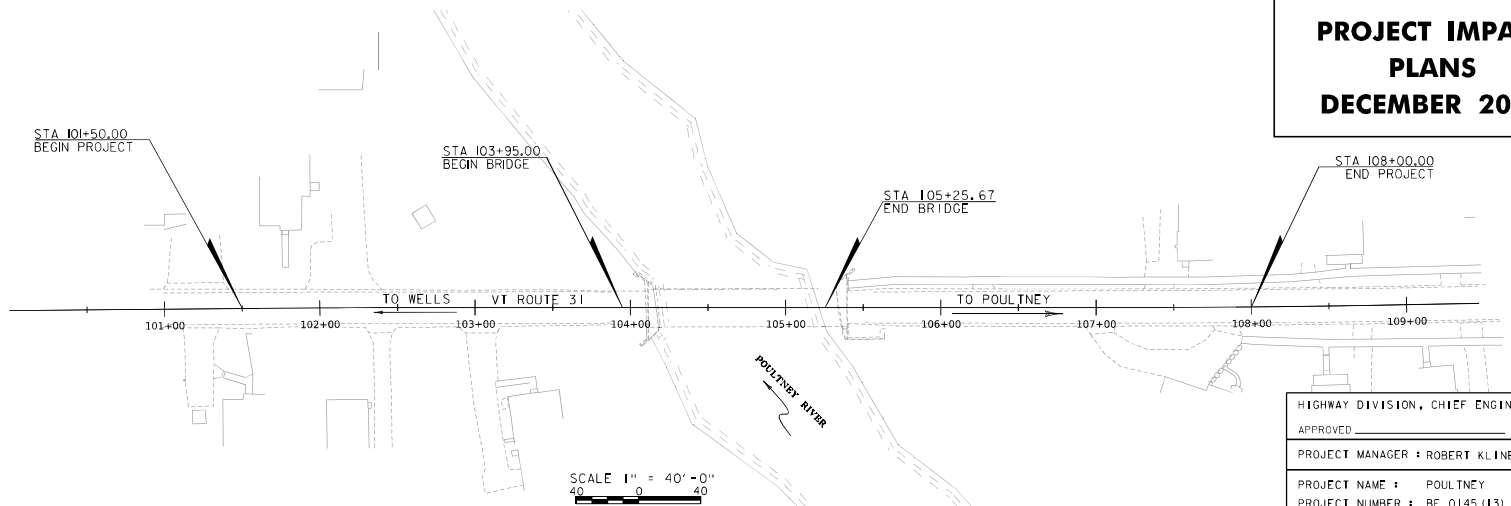
PROJECT LOCATION: LOCATED ON TH 1 (SOUTH ST) OVER THE POULTNEY RIVER IN THE TOWN OF POULTNEY, APPROXIMATELY 0.17 MILES SOUTH OF THE INTERSECTION WITH TH 7 (BENTLEY AVE).

PROJECT DESCRIPTION: REHABILITATION OF THE STEEL TRUSS, REMOVAL AND REPLACEMENT OF THE ABUTMENTS, AND RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 126.00 FEET
LEGNTH OF ROADWAY: 524.00 FEET
LENGTH OF PROJECT: 650.00 FEET



**PROJECT IMPACT
PLANS
DECEMBER 2024**



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

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	VHB
SURVEYED DATE :	MAY 2022
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (2011)

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

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : ROBERT KLINEFELTER, PE	
PROJECT NAME : POULTNEY	
PROJECT NUMBER : BF 0145 (13)	
SHEET 1 OF 36 SHEETS	

PRELIMINARY INFORMATION SHEET (BRIDGE)

INDEX OF SHEETS

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3	CONVENTIONAL SYMBOLOLOGY LEGEND
4	ENVIRONMENTAL PERMIT PLAN SYMBOLOLOGY
5	TYPICAL BRIDGE SECTION
6 - 7	TYPICAL ROADWAY SECTIONS 1-2
8	BORING INFORMATION SHEET
9 - 12	BORING LOGS 1-4
13 - 14	OHV IMPACTS LAYOUT 1-2
15 - 16	WETLAND IMPACTS LAYOUT 1-2
17 - 18	PROJECT DISTURBANCE LAYOUT 1-2
19 - 20	IMPERVIOUS SURFACE LAYOUT 1-2
21 - 22	TREE CLEARING LAYOUT 1-2
23 - 24	EXISTING CONDITIONS SITE PLAN 1-2
25 - 28	VT 31 CROSS SECTION SHEETS 1-4
29 - 36	CHANNEL CROSS SECTION SHEETS 1-8

STANDARDS LIST

DETAIL SHEETS

HSD-400.01	SAFETY EDGE DETAILS	15/2018
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FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: 45657

DRAINAGE AREA: 46.5 sq. mi.
CHARACTER OF TERRAIN: Flat to Hilly
STREAM CHARACTERISTICS: Sinuous
NATURE OF STREAMBED: Gravel

PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

50% =	1,500 cfs	2% =	4,400 cfs
10% =	2,800 cfs	1% =	5,200 cfs
4% =	3,700 cfs	0.2% =	5,100 cfs

NATURAL STREAM VELOCITY: @ 2% AEP = 6.6 fps

IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No

IF YES, DESCRIBE:

WATERSHED STORAGE: HEADWATERS: UNIFORM: IMMEDIATELY ABOVE SITE:

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Single Span Steel Truss
YEAR BUILT: 1923
CLEAR SPAN(NORMAL TO STREAM): 118.0 ft +/-
VERTICAL CLEARANCE ABOVE STREAMBED: 12.1 ft +/-
WATERWAY OF FULL OPENING: 1158.4 sq. ft.
DISPOSITION OF STRUCTURE: Rehabilitation & Re-alignment
TYPE OF MATERIAL UNDER SUBSTRUCTURE: See Borings

WATER SURFACE ELEVATIONS AT:

50% AEP =	414.7 ft	VELOCITY =	5.8 fps
10% AEP =	416.2 ft	"	9.0 fps
4% AEP =	417.0 ft	"	10.7 fps
2% AEP =	417.6 ft	"	11.7 fps
1% AEP =	418.2 ft	"	12.6 fps

LONG TERM STREAMBED CHANGES: Unknown

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

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: N/A
RELIEF ELEVATION: N/A
DISCHARGE OVER ROAD @ 1% AEP:
BRIDGE LOW CHORD ELEVATION: 420.72 ft +/-

UPSTREAM STRUCTURE

TOWN: Poultney DISTANCE: 1800 ft
HIGHWAY #: VT-30 STRUCTURE #: 87
CLEAR SPAN: 148.0 ft CLEAR HEIGHT: Unknown
YEAR BUILT: 1939 FULL WATERWAY: Unknown
STRUCTURE TYPE: Two Span Bridge

DOWNSTREAM STRUCTURE

TOWN: Poultney DISTANCE:
HIGHWAY #: D and H Rail Trail STRUCTURE #:
CLEAR SPAN: Unknown CLEAR HEIGHT:
YEAR BUILT: Unknown FULL WATERWAY:
STRUCTURE TYPE:

ADDITIONAL INFORMATION

LRFD LOAD RATING FACTORS

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

PROPOSED STRUCTURE

STRUCTURE TYPE: Single Span Steel Truss
CLEAR SPAN(NORMAL TO STREAM): 118.0 ft +/-
VERTICAL CLEARANCE ABOVE STREAMBED: 12.4 ft +/-
WATERWAY OF FULL OPENING: 1233.6 sq. ft.

WATER SURFACE ELEVATIONS AT:

50% AEP =	414.6 ft	VELOCITY =	5.0 fps
10% AEP =	416.0 ft	"	7.7 fps
4% AEP =	416.8 ft	"	9.2 fps
2% AEP =	417.3 ft	"	10.2 fps
1% AEP =	418.0 ft	"	11.3 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No
FREQUENCY: N/A
RELIEF ELEVATION: N/A
DISCHARGE OVER ROAD @ 1% AEP: N/A
BRIDGE LOW CHORD ELEVATION: 421.04 ft
FREEBOARD: 3.74 ft @ 2% AEP

SCOUR: Design Flood Scour elevation = 400.1 ft. (@ 0.5% AEP)

REQUIRED CHANNE. PROTECTION: Stone Fill Type III*

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: See Plans
CLEAR SPAN (NORMAL TO STREAM): See Plans
VERTICAL CLEARANCE ABOVE STREAMBED: See Plans
WATERWAY AREA OF FULL OPENING: See Plans

ADDITIONAL INFORMATION

*Use E-Stone Type II for all in channel work
CALCULATIONS BY: JAD
CHECKED BY: MHG

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TWO-WAY TRAFFIC ON A TEMPORARY BRIDGE.
2. INSTALL AND MAINTAIN TRAFFIC SIGNALS.
3. INSTALL SIDEWALKS ON THE LEFT SIDE OF THE BRIDGE
4. THE APPROACHES FOR THE TEMPORARY BRIDGE SHALL BE PAVED.

DESIGN VALUES

1. DESIGN LIVE LOAD	---
2. FUTURE PAVEMENT	d _p : ---
3. DESIGN SPAN	L: 0.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAIN	f _y : ---
6. PRESTRESSED CONCRETE STRENGTH	f _c : ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f _r : ---
8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f _c : ---
9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f _c : ---
10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f _c : --- KSI
11. CONCRETE, CLASS C	f _c : --- KSI
12. REINFORCING STEEL	f _y : 60 KSI
13. STRUCTURAL STEEL AASHTO M270	f _y : 50 KSI
14. NOMINAL BEARING RESISTANCE OF SOIL	e _n : ---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	e _f : ---
16. NOMINAL BEARING RESISTANCE OF ROCK	e _n : ---
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	e _f : ---
18. PILE RESISTANCE FACTOR	φ: ---
19. LATERAL PILE DEFLECTION	Δ: ---
20. BASIC WIND SPEED	V _{br} : ---
21. MINIMUM GROUND SNOW LOAD	s _f : ---
22. SEISMIC DATA	PGA: --- S _a : --- S _i : ---
23.	---
24.	---
25.	---
26.	---

PROJECT NAME: POULTNEY BF 0145(13)

PROJECT NUMBER: BF 0145(13)

FILE NAME: z21j164pi.dgn PLOT DATE: 1/14/2025
PROJECT LEADER: J.D. KEENER DRAWN BY: E. CORREDEIRA
DESIGNED BY: R.H. BARNES CHECKED BY: J.D. KEENER
PRELIMINARY INFORMATION SHEET 1 SHEET 2 OF 36



TRAFFIC DATA

AS BUILT "REBAR" DETAIL

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

YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2025 to 2045 : 607000	40 year ESAL for flexible pavement from 2025 to 2065 : 1393000
2025	1600	230	53	5.8	100		
2045	1800	250	53	8.1	160	Design Speed : 35 mph	

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
■	BNDS BOUND SET
□	BNDS 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
■	IPPIPE	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

_____	UTILITY (GENERIC-UNKNOWN)
_____	TELEPHONE
_____	ELECTRIC
_____	CABLE (TV)
_____	ELECTRIC+CABLE
_____	ELECTRIC+TELEPHONE
_____	CABLE+TELEPHONE
_____	ELECTRIC+CABLE+TELEPHONE
_____	GAS LINE
_____	WATER LINE
_____	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

_____	UTILITY (GENERIC-UNKNOWN)
_____	TELEPHONE
_____	ELECTRIC
_____	CABLE (TV)
_____	ELECTRIC+CABLE
_____	ELECTRIC+TELEPHONE
_____	ELECTRIC+TELEPHONE
_____	CABLE+TELEPHONE
_____	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
=====	PROJECT DEMARCATION FENCE
=====	BARRIER FENCE
=====	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
-----	PROPERTY LINE (P/L)
-----	SLOPE RIGHTS
-----	6F PROPERTY BOUNDARY
-----	4F PROPERTY BOUNDARY
-----	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

_____	FILTER CURTAIN
_____	SILT FENCE, TYPE I
_____	SILT FENCE, TYPE II
_____	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
-----	THREATENED & ENDANGERED SPECIES
-----	HAZARDOUS WASTE AREA
-----	AGRICULTURAL LAND
-----	FISH & WILDLIFE HABITAT
-----	FLOOD PLAIN
-----	ORDINARY HIGH WATER (OHW)
-----	STORM WATER
-----	USDA FOREST SERVICE LANDS
-----	WILDLIFE HABITAT SUIT/CONN

ARCHAEOLOGICAL & HISTORIC

-----	ARCHAEOLOGICAL BOUNDARY
-----	HISTORIC DISTRICT BOUNDARY
-----	HISTORIC AREA
-----	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

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: POULTNEY
PROJECT NUMBER: BF 0145(13)

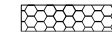
FILE NAME: z2j64legend_ENV.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: VTRANS
CONVENTIONAL SYMBOLGY LEGEND

PLOT DATE: 12/18/2024
DRAWN BY: E.CORREDEIRA
CHECKED BY: J.D. KEENER
SHEET 3 OF 36



VT IMPACT PERMITTING PLAN SYMBOLOGY

OHW IMPACTS



OHW TEMPORARY

5656.49 SF (0.130 ACRES)



OHW PERMANENT

1188.41 SF (0.027 ACRES)

WETLAND IMPACTS



WETLANDS TEMPORARY

0 SF (0.000 ACRES)



WETLANDS PERMANENT

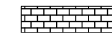
0 SF (0.000 ACRES)

WETLAND BUFFER IMPACTS (VT ANR ONLY)



WETLANDS BUFFER TEMPORARY

1880.73 SF (0.043 ACRES)



WETLANDS BUFFER PERMANENT

38.04 SF (0.001 ACRES)

IMPERVIOUS SURFACE IMPACTS



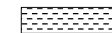
NEW / EXPANSION SURFACE AREA (WHERE NONE EXISTED)

2,456.14 SF (0.056 ACRES)



REDEVELOPMENT SURFACE AREA
(FULL DEPTH RECONSTRUCTION OF EXISTING IMPERVIOUS)

15,679.75 SF (0.360 ACRES)



EXISTING IMPERVIOUS TO REMAIN

2,443.55 SF (0.056 ACRES)



EXISTING IMPERVIOUS TO BE REMOVED
AND RESTORED TO PERVIOUS

261.38 SF (0.006 ACRES)

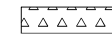
PROJECT DISTURBANCE



DISTURBANCE AREA

59,527.84 SF (1.37 ACRES)

TREE CLEARING



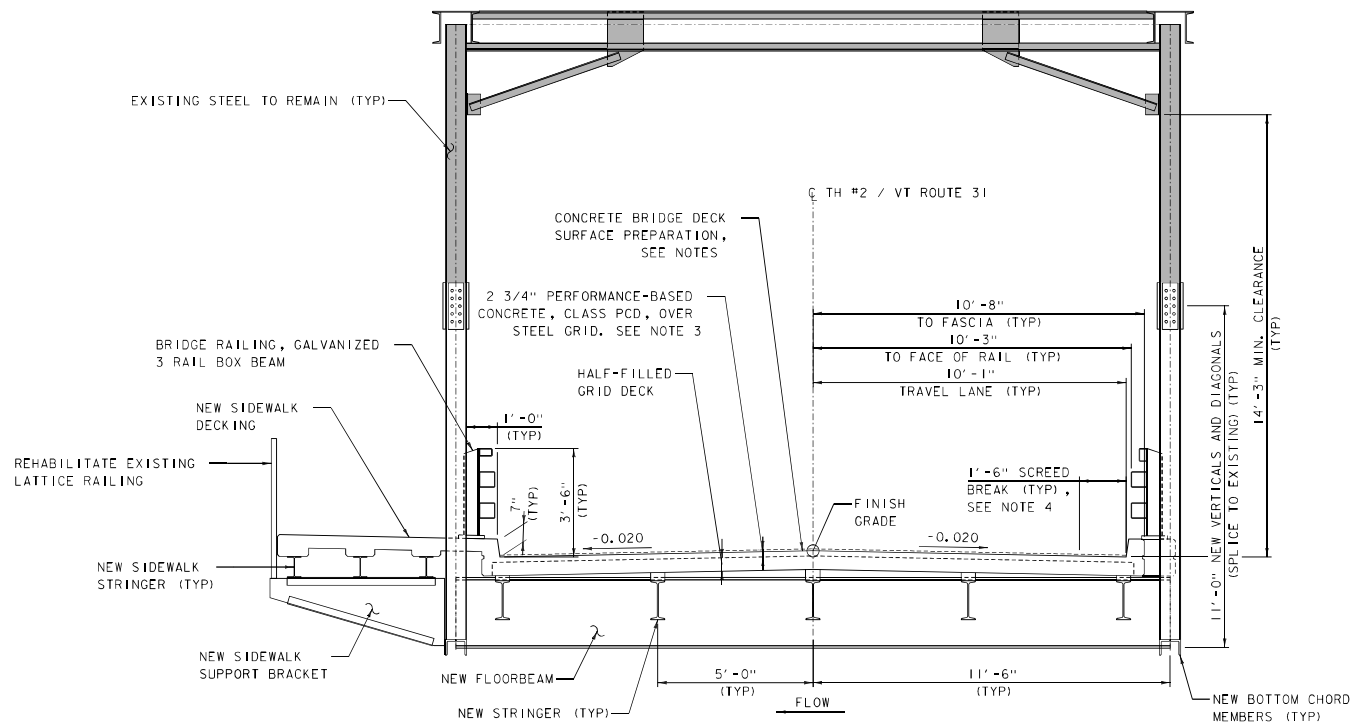
TREE CLEARING

17,215.14 SF (0.395 ACRES)



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164legend ENV.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: N.A. TRUSLOW
ENVIRONMENTAL PERMIT PLAN SYMBOLOGY
PLOT DATE: 12/18/2024
DRAWN BY: E.CORREDEIRA
CHECKED BY: J.D. KEENER
SHEET 4 OF 36



TRUSS TYPICAL SECTION

SCALE: $\frac{1}{2}'' = 1'-0''$

NOTES:

1. ALL NEW STEEL SHALL BE GRADE 50.
2. ALL STEEL NOT LABELLED AS NEW IS EXISTING AND SHALL REMAIN.
3. 2 3/4" DIMENSION INCLUDES 3/4" TO BE REMOVED PER CONCRETE BRIDGE DECK SURFACE PREPARATION. FINAL CONCRETE THICKNESS OVER STEEL GRID AFTER GRINDING SHALL BE 2".
4. FINISH SCREED BREAK AREA TO A FINAL CONCRETE THICKNESS OF 2" OVER THE STEEL GRID, OR TAPER FROM 2 3/4" TO 2" THICKNESS AT FACE OF CURB. IF AREA IS TAPERED, THE TAPER SHALL BE REMOVED BY GRINDING TO ACHIEVE A FINAL CONCRETE THICKNESS OF 2" OVER THE STEEL GRID.

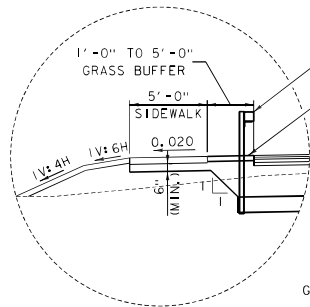
PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j064typ.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
TYPICAL BRIDGE SECTION

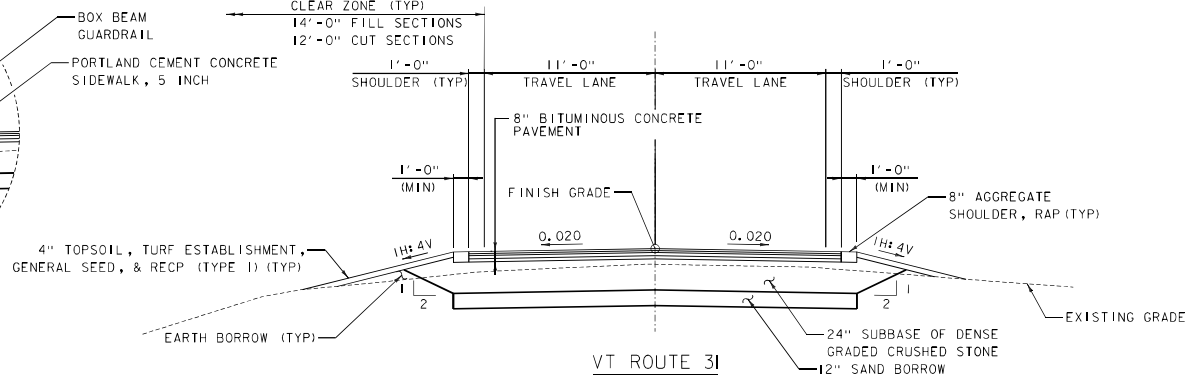
PLOT DATE: 12/18/2024
DRAWN BY: R.H. BARNES
CHECKED BY: J.D. KEENER
SHEET 5 OF 36



- - (2) 1½" LIFTS OF TYPE IVS, QA TIER III OVER
(2) 2½" LIFTS OF TYPE IIS, QA TIER III

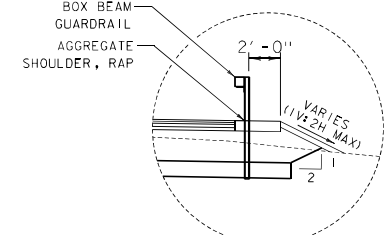


**GUARDRAIL PANEL AT
SIDEWALK, LT**
SCALE ¼" = 1'-0"
STA 103+20 - 103+68, LT

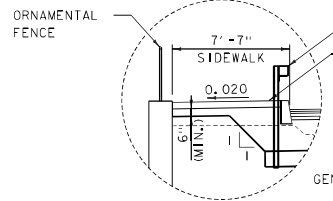


VT ROUTE 31

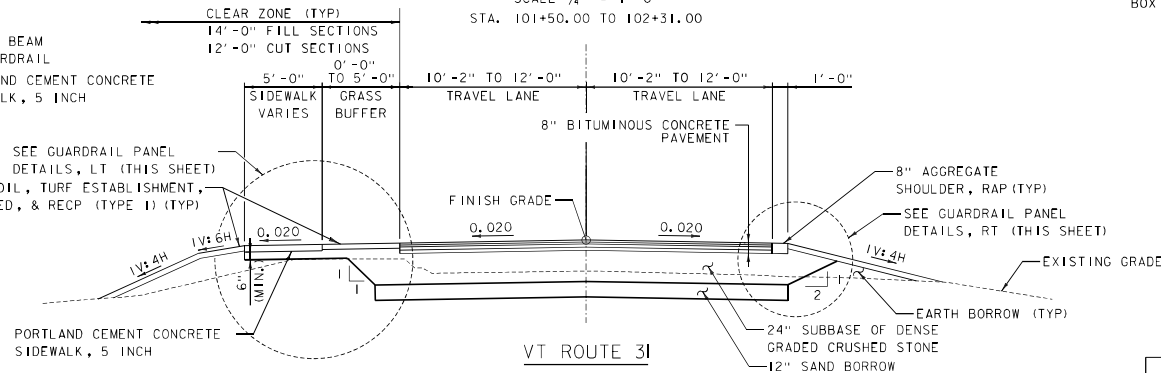
SCALE ¼" = 1'-0"
STA. 101+50.00 TO 102+31.00



**GUARDRAIL PANEL AT
EMBANKMENT, RT**
SCALE ¼" = 1'-0"
STA 103+20 - 103+68, RT
STA 105+34 - 106+00, RT

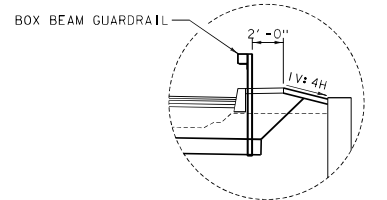


**GUARDRAIL PANEL
AT CURB, LT**
SCALE ¼" = 1'-0"
STA 103+68 - 103+95, LT
STA 105+25.67 - 105+34, LT

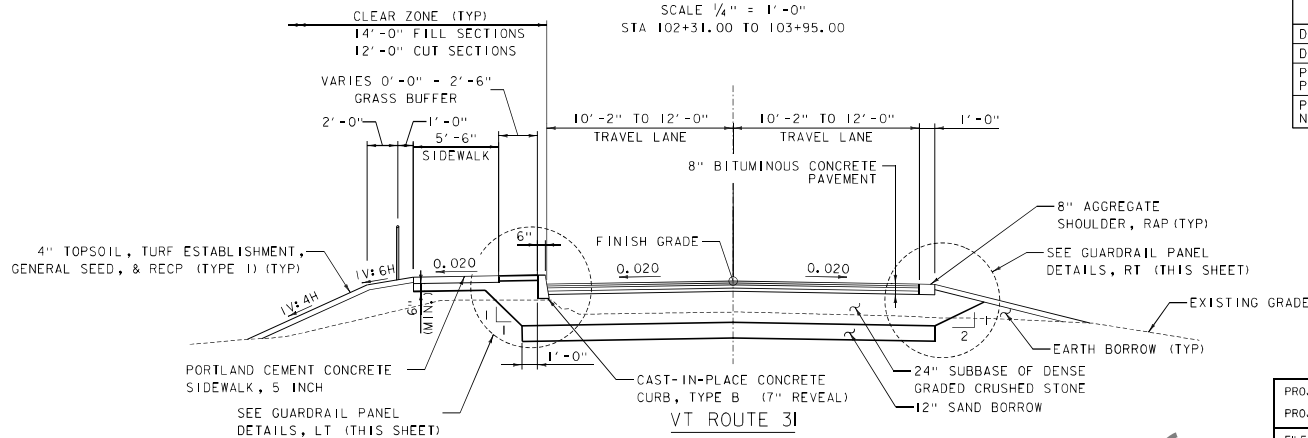


VT ROUTE 31

SCALE ¼" = 1'-0"
STA 102+31.00 TO 103+95.00



**GUARDRAIL PANEL
AT CURB, RT**
SCALE ¼" = 1'-0"
STA 103+68 - 103+95, RT
STA 105+25.67 - 105+34, RT



VT ROUTE 31

SCALE ¼" = 1'-0"
STA 105+25.67 TO 108+00.00

BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LIFE ESAL (DESIGN LANE)	491,920
DESIGN NUMBER OF CYRATIONS	65
PERFORMANCE GRADED ASPHALT BINDER PAVER PLACED	58E-28
PERFORMANCE GRADED ASPHALT BINDER NON-PAVER PLACED	58S-28

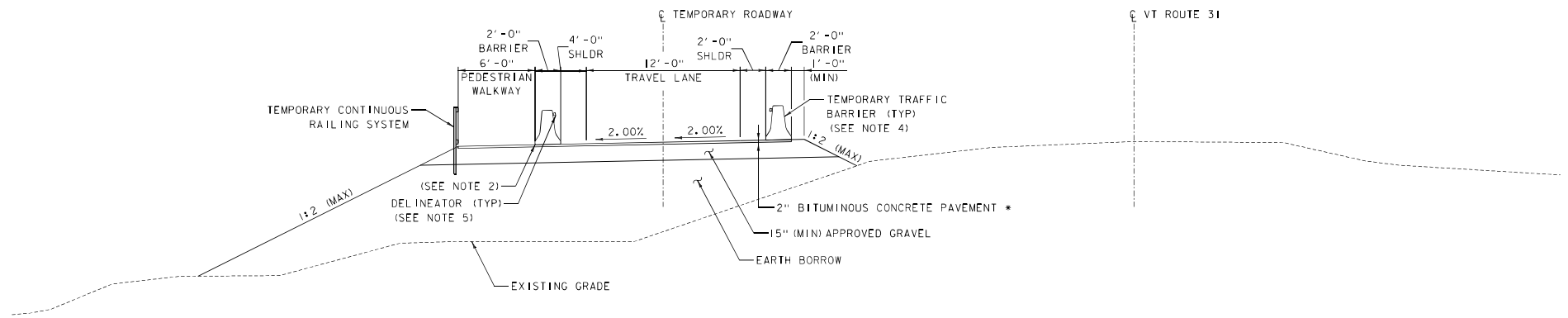
MATERIAL TOLERANCES
(IF USED ON PROJECT)

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

PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j064typ.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: T.D. BURT
PLOT DATE: 12/18/2024
DRAWN BY: T.D. BURT
CHECKED BY: J.D. KEENER
SHEET 6 OF 36





TEMPORARY ROADWAY
SCALE 1/4" = 1'-0"

* - (1) 2" LIFTS OF TYPE IVS

NOTES:

1. TEMPORARY RAILING SHALL MEET REQUIREMENTS OUTLINED IN SECTION 528 (e)
2. TEMPORARY TRAFFIC BARRIER OR CRASH TESTED RAIL IS REQUIRED BETWEEN ROADWAY AND PEDESTRIAN WALKWAY
3. PAYMENT FOR ALL COSTS ASSOCIATED WITH TEMPORARY RAILING, PAVEMENT, APPROVED GRAVEL, EARTH BORROW, AND ALL OTHER MATERIALS, LABOR, AND INCIDENTALS ASSOCIATED WITH CONSTRUCTION OF THE TEMPORARY BRIDGE AND ROADWAY WILL BE MADE UNDER ITEM 528.1000 "ONE LANE TEMPORARY BRIDGE".
4. COSTS FOR TEMPORARY TRAFFIC BARRIER USED FOR BRIDGE RAIL, APPROACH RAIL, OR SEPARATION BETWEEN ROADWAY AND PEDESTRIAN WALKWAY WITHIN THE TEMPORARY ROADWAY LIMITS SHALL BE INCIDENTAL TO ITEM 528.1000 "ONE LANE TEMPORARY BRIDGE".
5. TEMPORARY CONCRETE BARRIER TO BE DELINEATED EVERY 20 FEET ON SIDE EXPOSED TO TRAFFIC. DELINEATION COLOR SHALL MATCH CORRESPONDING TEMPORARY PAVEMENT MARKING.

BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADED ASPHALT BINDER	58S-28
PAVER PLACED	

MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

PROJECT NAME:	POULTNEY
PROJECT NUMBER:	BF 0145(13)
FILE NAME:	z2j064typ.dwg
PROJECT LEADER:	J.D. KEENER
DESIGNED BY:	T.D. BURT
TYPICAL ROADWAY SECTIONS (2 OF 2)	
PLOT DATE:	12/18/2024
DRAWN BY:	T.D. BURT
CHECKED BY:	J.D. KEENER
SHEET	7 OF 36



SOIL CLASSIFICATION

AASHTO

A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.O.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊕	Standard Penetration Boring
⊗	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test
	Blow Count Per Foot For:
	2" O.D. Sampler
	1 1/2" I.D. Sampler
	Hammer Weight Of 140 Lbs.
	Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 1/2"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Sl	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NADB3 - See Note 7

COLOR	
blk	Black
bl	Blue
brn	Brown
dk	Dark
gry	Gray
gn	Green
lt	Light
Orange	Orange
pnk	Pink
pu	Purple
rd	Red
tn	Tan
wh	White
yel	Yellow
mltc	Multicolored

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension ≥ 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.075" (#20 sieve).

SAND - Particles of rock < 0.075" (#20 sieve) and > 0.0029" (#60 sieve).

SILT - Soil < 0.0029" (#60 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

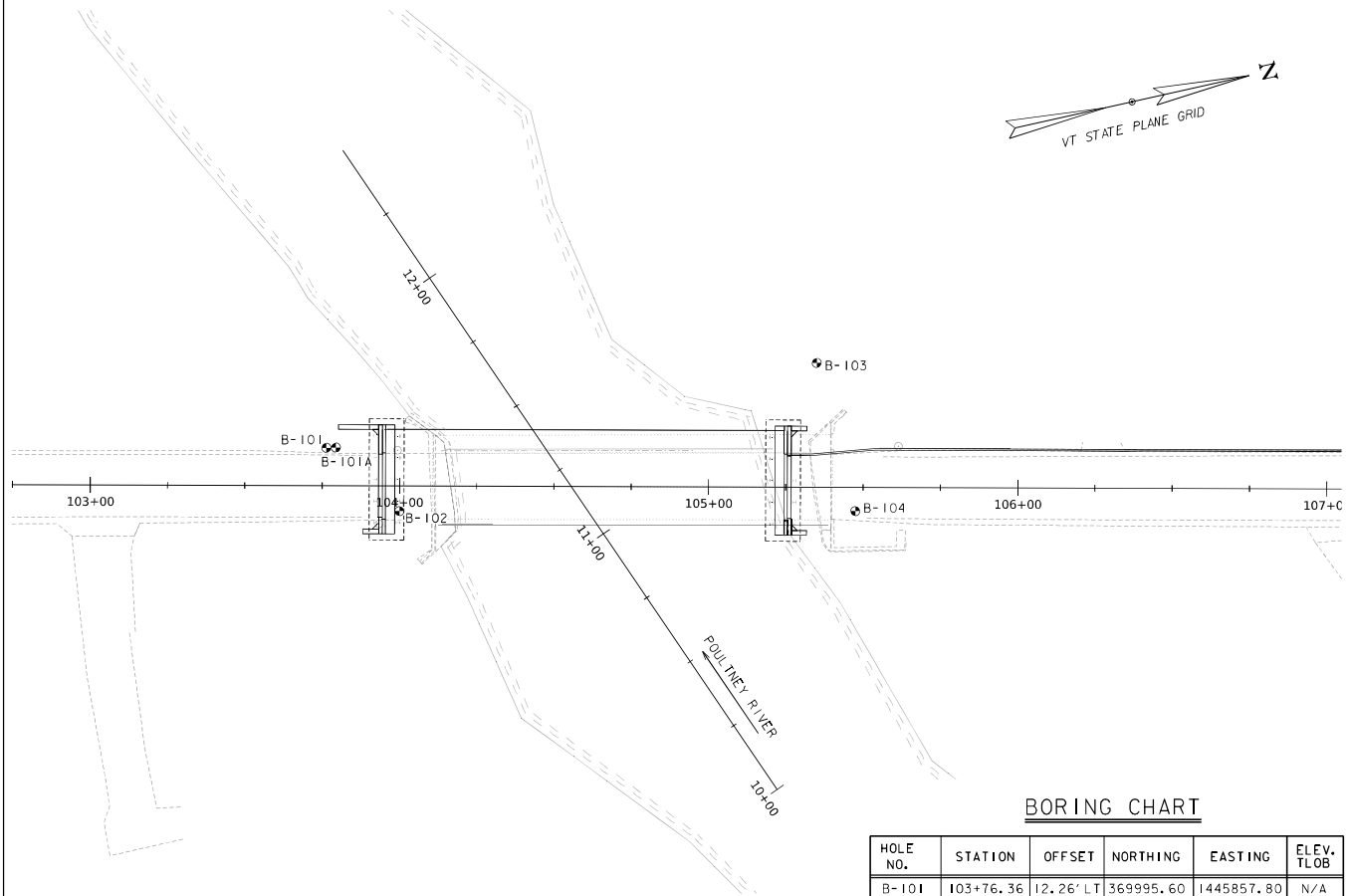
MUCK - Soft organic soil (containing > 10% organic material).

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

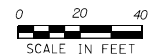
FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.



BORING INFORMATION SHEET



BORING CHART

HOLE NO.	STATION	OFFSET	NORTHING	EASTING	ELEV. TLOB
B-101	103+76.36	12.26' LT	369995.60	1445857.80	N/A
B-101A	103+79.42	12.34' LT	369998.60	1445858.40	384.7
B-102	104+00.03	8.13' RT	370014.20	1445882.90	384.0
B-103	105+34.90	40.25' LT	370156.40	1445865.60	383.4
B-104	105+47.51	7.65' RT	370158.10	1445915.10	379.1

GENERAL NOTES


- The subsurface explorations shown herein were made between 04/10/2023 and 04/25/2023 by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.




PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164.bor.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
BORING INFORMATION SHEET

PLOT DATE: 12/18/2024
DRAWN BY: M.F. NEMETH
CHECKED BY: N.A. TRUSLOW
SHEET 8 OF 36

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101 Page No.: 1 of 1 Pin No.: 21J164 Checked By: END				
Boring Crew: MCGINLEY, MONETTE, DENARDO		Casing: H.S.A. SS Sampler: 3 in 1.5 in		Groundwater Observations		Date: 04/24/23 Depth (ft): 17.0 Notes: WT augers removed				
Date Started: 4/24/23 Date Finished: 4/25/23		Type: I.D.: N.A. 140 lb. Hammer Wt: N.A. 30 in. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto/AWJ Rig: Acker Track CE =		Date: 04/25/23 Depth (ft): 17.0 Notes: WT augers removed		Date: 04/25/23 Depth (ft): 17.0 Notes: WT augers removed				
VTSPG NAD83: N 369995.60 ft E 1445857.80 ft		Station: 12+77.00 Offset: -12.10		Ground Elevation: 423.5 ft						
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)		Blow (ft) (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		Field Description: GRAVEL some Sand, trace Silt, brn, Moist, Rec. = 0.2 ft		1-2-3 (5)						
		Field Description: GRAVEL and Sand, some Silt, brn, Moist, Rec. = 0.8 ft		2-2-4 (6)						
		Field Description: GRAVEL and Sand, some Silt, brn, Moist, Rec. = 0.5 ft		3-2-2-2 (4)						
		Field Description: GRAVEL, Sand, some Silt, brn, Moist, Rec. = 0.4 ft		2-3-4-4 (7)						
10		Field Description: GRAVEL and Sand, brn, Moist, Rec. = 0.2 ft		3-2-1-2 (3)						
		A-2-4, Lab Classification: SAND, some Silt, little Gravel, brn/gry, Moist, Rec. = 1.7		3-4-4-6 (8)	15.1	18.3	52.5	29.2		
		Field Description: SAND and Gravel, trace Silt, brn, MTW, Rec. = 0.9 ft		4-5-5-5 (10)						
15		A-2-4, Lab Classification: SAND, some Silt, some Gravel, brn, MTW, Rec. = 1.1 ft		3-7-3-2 (10)	19.3	20.9	48.6	30.5		
		Field Description: SAND and Silt, trace Clay, brn, MTW, Rec. = 1.4 ft		1-1-1-2 (2)						
20		A-4, Lab Classification: SILT, brn/gry, Wet, Rec. = 1.5 ft		WOH- WOH- WOH- 2 (WOH)	29.9	3.9	3.5	92.6		
25		A-4, Lab Classification: Low plasticity SILT. Rollercone cleanup 21.0'-30.0', gry, MTW, Rec. = 2.0 ft		WOH- WOH- WOH- 2 (WOH)	41.4		0.1	99.9	28	3
30		Field Description: CLAY, gry, MTW, Rec. = 2.0 ft		WOH- WOH- WOH- 2 (WOH)						
35		A-4, Lab Classification: SILT, little Sand, trace Gravel, gry, MTW, Rec. = 1.8 ft		WOH- 5-6-9 (11)	23.9	3.2	14.8	82.0		
		Field Description: SAND and Gravel, gry, MTW, Rec. = 0.2 ft								
40		Hole stopped @ 40.0 ft								
45		Remarks: 1. Hole Stopped at 40'. 2. Augers broke at 30', 10' of auger left in hole located between 25 and 40'. 3. No WT to 21'. Material in auger at 21'.								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										





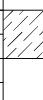
		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101A Page No.: 1 of 1 Pin No.: 21J164 Checked By: END				
Boring Crew: MCGINLEY, MONETTE, DENARDO		Casing: WB SS Sampler: 3 in 1.5 in		Groundwater Observations		Date: 04/25/23 Depth (ft): 4.7 Notes: WT after drilling				
Date Started: 4/25/23 Date Finished: 4/25/23		Type: I.D.: N.A. 140 lb. Hammer Wt: N.A. 30 in. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto/AWJ Rig: Acker Track CE =		Date: 04/25/23 Depth (ft): 4.7 Notes: WT after drilling		Date: 04/25/23 Depth (ft): 4.7 Notes: WT after drilling				
VTSPG NAD83: N 369998.60 ft E 1445858.40 ft		Station: 12+76.00 Offset: -12.10		Ground Elevation: 423.5 ft						
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)		Blow (ft) (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0		0.0 ft - 38.8 ft, Advanced casing to refusal at 38.8'.								
10										
20										
30										
40		38.8 ft - 42.5 ft, Gray to black, Calcareous SLATE, with calcite veins. Rock is highly fractured. From 40 ft to 42.5 ft, rock is severely weathered and weak. Pieces can be crumbled by finger pressure. Soft to very soft, Severely weathered, Poor rock, NXDC, RMR = 28		R-1 (20-40) 73 (32)	4					
		42.5 ft - 47.5 ft, Gray to black, Calcareous SLATE, with few calcite veins. Rock is highly fractured and granular. Pieces break easily with finger pressure. Soft to very soft, Severely to moderately weathered, Poor rock, NXDC, RMR = 17		R-2 (20-30) 60 (0)	6					
50		Hole stopped @ 47.5 ft								
		Remarks: 1. Moved boring next to B-101 advanced to bedrock without sampling. 2. Hole collapsed at 33.8'.								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.										






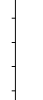
PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)



FILE NAME: z21j64borlogs.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
BORING LOGS (10 of 4)

PLOT DATE: 12/18/2024
DRAWN BY: N.A. TRUSLOW
CHECKED BY: R.H. BARNES
SHEET 9 OF 36

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102 Page No.: 1 of 2 Pin No.: 21J164 Checked By: END							
Boring Crew: MCGINLEY, BROCHU, ARLES		Type: WB		Casing: 3 in		Sampler: 1.5 in		Groundwater Observations					
Date Started: 4/10/23		Date Finished: 4/12/23		I.D.: 3 in		Hammer: N.A.		Date: 04/10/23					
VTSPG NAD83: N 370014.20 ft E 1445882.90 ft		Hammer Fall: N.A.		Hammer/Rod Type: Auto/AWJ		CE: 04/11/23		14.3					
Station: 13+00.00		Offset: 8.00		Rig: Acker Track		CE: 04/12/23		No WT to depth					
Ground Elevation: 424.5 ft													
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. (ft)	Drill Rate (min/ft)	Blow (6 in)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)
5		Asphalt 0.0' - 0.8', 0.0 ft - 0.8 ft											
		Field Description: Well graded GRAVEL and Sand, trace Silt. Gravel in end of sampler, brn, Moist. Rec. = 1.0 ft					14-14-10-8 (24)						
		A-1-a, Lab Classification: GRAVEL, some Sand, trace Silt, brn, Moist. Rec. = 0.9 ft					6-4-3-4 (7)	9.4	57.9	33.3	8.8		
		A-1-b, Lab Classification: GRAVEL and Sand, little Silt, brn, Moist. Rec. = 0.8 ft					4-3-3-4 (6)	10.3	45.0	43.6	11.4		
		Field Description: Poorly graded SAND, Gravel in end of sampler, brn, MTW, Rec. = 0.2 ft					5-5-4-14 (9)						
10		Field Description: GRAVEL and Sand. Gravel in end of sampler. Rollercone cleanout 10.0'-11.0', brn, Moist. Rec. = 0.6 ft					7-5-6-10 (11)						
		Field Note: No recovery					6-11-12-8 (23)						
		Field Description: GRAVEL, some Sand. Gravel in end of sampler. Rollercone cleanout 14.5'-15.0'. Minor rig chatter, brn, Wet. Rec. = 0.4 ft					5-6-4-2 (10)						
15		A-1-b, Lab Classification: SAND and Gravel, trace Silt, brn/gr, Moist. Rec. = 0.6 ft					5-3-2-3 (5)	14.9	44.2	48.7	7.1		
		Field Description: SAND, trace Gravel. Gravel in end of sampler. Rollercone cleanout 24.5'-25.0', gry, Moist. Rec. = 0.85 ft					5-11-26-16 (37)						
25		A-4, Lab Classification: Low plasticity SILT, trace Sand, gry, Wet. Rec. = 1.3 ft					1-1-WOH-1 (1)	39.7	0.8	3.9	95.3	31	8
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.													


		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102 Page No.: 2 of 2 Pin No.: 21J164 Checked By: END							
Boring Crew: MCGINLEY, BROCHU, ARLES		Type: WB		Casing: 3 in		Sampler: 1.5 in		Groundwater Observations					
Date Started: 4/10/23		Date Finished: 4/12/23		I.D.: 3 in		Hammer: N.A.		Date: 04/10/23					
VTSPG NAD83: N 370014.20 ft E 1445882.90 ft		Hammer Fall: N.A.		Hammer/Rod Type: Auto/AWJ		CE: 04/11/23		14.3					
Station: 13+00.00		Offset: 8.00		Rig: Acker Track		CE: 04/12/23		No WT to depth					
Ground Elevation: 424.5 ft													
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. (ft)	Drill Rate (min/ft)	Blow (6 in)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)
35		Field Description: CLAY transitions to Sand, some Silt in end of sampler, gry, Wet. Rec. = 0.3 ft					1-1-4-2 (5)						
40		A-4, Lab Classification: Low plasticity SILT, trace Sand, gry, Wet. Rec. = 0.5 ft					2-2-7-6 (9)	30.1	0.2	5.0	94.8	22	1
45		40.5 ft - 45.5 ft, Gray to black, Calcareous and non-calcareous SLATE, with calcite veins. Fractures are fresh. No joints present in run. Soft, Unweathered, Fair rock, NXDC, RMR = 43		R1 (10-30)	78 (76)	5							
50		45.5 ft - 47.0 ft, No recovery. NXDC		R2	0 (0)	14							
55		47.0 ft - 48.0 ft, Gray, QUARTZITE, and black non-calcareous SLATE. Hard, Unweathered, NXDC, Poor core recovery. No RMR calculated		R3	20 (0)	10							
Hole stopped @ 53.0 ft													
Remarks: 1. Hole collapsed at 12.8'. 2. Lost water return advancing casing 15'-25'.													
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.													

PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)




FILE NAME: z2j064borlogs.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
BORING LOGS (2 OF 4)

PLOT DATE: 12/18/2024
DRAWN BY: N.A. TRUSLOW
CHECKED BY: R.H. BARNES
SHEET 10 OF 36

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-103 Page No.: 1 of 2 Pin No.: 21J164 Checked By: END				
Boring Crew: MCGINLEY, BROCHU, ZOTTOLA		Casing: H.S.A. SS Sampler: 3 in. 1.5 in.		Groundwater Observations						
Date Started: 4/13/23 Date Finished: 4/14/23		Type: H.S.A. SS		Date Depth (ft) Notes						
VTSPG NAD83: N 370156.40 ft E 1445865.60 ft		I.D.: 3 in. 1.5 in.		04/13/23 7.5 WT after drilling						
Station: 14+35.00 Offset: -40.00		Hammer Wt: N.A. 140 lb.		04/14/23 6.4 WT after drilling						
Ground Elevation: 416.5 ft		Hammer Fall: N.A. 30 in.		04/14/23 6.7 WT before drilling						
Rig: Acker Track		Hammer/Rod Type: Auto/AWJ		CE =						
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (in/min)	Blows (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)
5		Field Description: SAND and Gravel, some organics, brn, MTD, Rec. = 1.5 ft				5-6-6-5 (12)				
		Field Description: SAND, some Silt, trace Gravel, brn, Moist, Rec. = 1.1 ft				1-1-3-1 (4)				
		A-2-4, Lab Classification: SAND, some Gravel, and some Silt, brn/gry, Moist, Rec. = 1.2 ft				4-6-10-9 (16)	11.4	29.0	43.2	27.8
		Field Description: SAND some Gravel, Rock in end of sampler, Lt brn, Moist, Rec. = 1.3 ft				10-10-9-11 (19)				
10		A-1-a, Lab Classification: GRAVEL, some Sand, trace Silt, brn, Moist, Rec. = 0.9 ft				11-10-15-10 (25)	9.2	72.9	20.7	6.4
		A-4, Lab Classification: SILT, little Gravel, little Sand, brn, Wet, Rec. = 2.0 ft				WOH-1-2-3 (3)	25.1	18.1	15.8	66.1
		Field Description: SILT and Clay, some Sand, brn, Wet, Rec. = 1.3 ft				2-2-4-4 (6)				
		Field Description: SILT and Clay, gry, Wet, Rec. = 1.6 ft				5-2-3-2 (5)				
15		Field Description: CLAY some Silt, gry, Wet, Rec. = 2.0 ft				WOH-2-1-1 (3)				
		A-4, Lab Classification: SILT trace Sand, trace Gravel, Sample tested non-plastic, gry, Wet, Rec. = 2.0 ft				WOH-1-1-1 (1)	36.0	1.6	5.3	93.1
		Field Description: CLAY, gry, Wet, Rec. = 2.0 ft				WOH-1-1-1 (2)				
		Field Description: CLAY, gry, Wet, Rec. = 2.0 ft				WOH-2-1-1 (2)				

Notes:

1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-103 Page No.: 2 of 2 Pin No.: 21J164 Checked By: END				
Boring Crew: MCGINLEY, BROCHU, ZOTTOLA		Casing: H.S.A. SS Sampler: 3 in. 1.5 in.		Groundwater Observations						
Date Started: 4/13/23 Date Finished: 4/14/23		Type: H.S.A. SS		Date Depth (ft) Notes						
VTSPG NAD83: N 370156.40 ft E 1445865.60 ft		I.D.: 3 in. 1.5 in.		04/13/23 7.5 WT after drilling						
Station: 14+35.00 Offset: -40.00		Hammer Wt: N.A. 140 lb.		04/14/23 6.4 WT after drilling						
Ground Elevation: 416.5 ft		Hammer Fall: N.A. 30 in.		04/14/23 6.7 WT before drilling						
Rig: Acker Track		Hammer/Rod Type: Auto/AWJ		CE =						
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (in/min)	Blows (N Value)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)
35		Field Description: Broken rock. Refusal at 33.2' (50 blows/0.5"), gry, MTD, Rec. = 0.2 ft		R1 (60-70)	98 (83)	3	Rec. of Bedrock			
		33.2 ft - 38.2 ft, Gray to black, Calcareous SLATE, with calcite veins. Breaks are fresh, unweathered and mostly mechanical. Soft, Unweathered, Fair rock, NXDC, RMR = 43				4				
						4				
						4				
40		38.2 ft - 43.2 ft, Gray to black, Calcareous SLATE, with calcite veins. Breaks are fresh, unweathered and mostly mechanical. Soft, Unweathered, Fair rock, NXDC, RMR = 46		R2 (60-70)	90 (90)	4				
						4				
						4				
						4				
Hole stopped @ 43.2 ft										
45		Remarks: Hole collapsed at 6.7'.								
50										
55										

Notes:


1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.


PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)



FILE NAME: z21j64borlogs.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
BORING LOGS (3 OF 4)

PLOT DATE: 12/18/2024
DRAWN BY: N.A. TRUSLOW
CHECKED BY: R.H. BARNES
SHEET 11 OF 36

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>B-104</u> Page No.: <u>1 of 2</u> Pin No.: <u>21J164</u> Checked By: <u>END</u>							
Boring Crew: <u>MCGINLEY, BROCHU, MONETTE, ZOTTOLA</u>				Casing Sampler		Groundwater Observations							
Date Started: <u>4/19/23</u> Date Finished: <u>4/24/23</u>				Type: <u>H.S.A.</u> <u>SS</u>		Date Depth Notes							
VTSPG NAD83: <u>N 370158.10 ft E 1445915.10 ft</u>				I.D.: <u>3 in</u> <u>1.5 in</u>		<u>04/24/23</u> <u>3.1</u> <u>WT before drilling</u>							
Station: <u>14+48.00</u> Offset: <u>8.00</u>				Hammer Wt: <u>N.A.</u> <u>140 lb.</u>									
Ground Elevation: <u>424.6 ft</u>				Hammer Fall: <u>N.A.</u> <u>30 in.</u>									
				Hammer/Rod Type: <u>Auto/AWJ</u>									
				Rig: <u>Acker Track</u> <u>CE</u>									
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (ft/min)	Blow (ft)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)	
5		Asphalt 0.0' - 0.5', 0.0 ft - 0.5 ft				7-11-9	5.8	44.3	40.0	15.7			
		A-1-b, Lab Classification: GRAVEL and Sand, little Silt, brn, Dry, Rec. = 1.4 ft				5-4-3	(8)						
		Field Description: SAND, some Gravel. Rock in end of sampler, brn, Dry, Rec. = 0.2 ft				4-11-5	(16)						
		Field Description: Broken rock, GRAVEL, some Sand, brn, Dry, Rec. = 0.4 ft				5-8-28	(36)						
10		Field Description: Broken rock, GRAVEL, some Sand, brn/gry, Dry, Rec. = 0.9 ft				24-11-48	2.7	73.8	20.4	5.8			
		A-1-a, Lab Classification: GRAVEL, some Sand, trace Silt, brn, Dry, Rec. = 0.9 ft				12-39	(39)						
		Field Description: Broken rock, GRAVEL, some Sand, Refusal at 10.1' (100 blows), brn/gry, Dry, Rec. = 1.4 ft				11-35	(74)						
		Field Description: SAND and Gravel, some Silt, Dk/brn-gry, Moist, Rec. = 1.1 ft				17-7-10	(17)	12.3	69.4	22.7	7.9		
15		A-1-a, Lab Classification: GRAVEL, some Sand, trace Silt, brn, Wet, Rec. = 0.7 ft				8-8-10							
		Field Description: SAND, some Gravel, some Silt, brn, Wet, Rec. = 1.0 ft				20-14	(26)						
		Field Description: SAND and Gravel, little Silt, brn, Wet, Rec. = 1.3 ft				7-5-5-6	(6)	22.8	29.9	15.4	54.7		
		A-4, Lab Classification: SILT, some Gravel, little Sand, brn/gry, Wet, Rec. = 1.2 ft											
25													
		Field Description: CLAY, gry, Wet, Rec. = 2.0 ft				WOH-1							
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.													

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>B-104</u> Page No.: <u>2 of 2</u> Pin No.: <u>21J164</u> Checked By: <u>END</u>						
Boring Crew: <u>MCGINLEY, BROCHU, MONETTE, ZOTTOLA</u>				Casing Sampler		Groundwater Observations						
Date Started: <u>4/19/23</u> Date Finished: <u>4/24/23</u>				Type: <u>H.S.A.</u> <u>SS</u>		Date Depth Notes						
VTSPG NAD83: <u>N 370158.10 ft E 1445915.10 ft</u>				I.D.: <u>3 in</u> <u>1.5 in</u>		<u>04/24/23</u> <u>3.1</u> <u>WT before drilling</u>						
Station: <u>14+48.00</u> Offset: <u>8.00</u>				Hammer Wt: <u>N.A.</u> <u>140 lb.</u>								
Ground Elevation: <u>424.6 ft</u>				Hammer Fall: <u>N.A.</u> <u>30 in.</u>								
				Hammer/Rod Type: <u>Auto/AWJ</u>								
				Rig: <u>Acker Track</u> <u>CE</u>								
Depth (ft)	Strata (t)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ft)	Drill Rate (ft/min)	Blow (ft)	Moisture Content (%)	Gravel (%)	Sand (%)	Fines (%)	LL (%)	PI (%)
35						(1)						
		A-4, Lab Classification: Low plasticity SILT, trace Sand, gry, Wet, Rec. = 2.0 ft				WOH-1	32.7	0.3	4.8	94.9	28	6
						WOH-1						
						WOH-1						
40		Field Description: SAND, some Silt, some Clay, gry, Wet, Rec. = 2.0 ft				WOH-1-3-3						
						(4)						
		Field Description: SAND, some Gravel, some Silt, gry, Wet, Rec. = 0.7 ft				29-88	(8)					
45												
		45.5 ft - 49.8 ft, Gray to black, Calcareous SLATE, with calcite veins. Rock is moderately shattered along foliation planes, some faint weathering/staining on fracture surfaces (brown/rust). Soft, Slightly weathered, Poor rock, NDC, RMR = 29	R1 (10-20)	84 (21)	3							
50												
		49.8 ft - 54.8 ft, Gray to black, Calcareous SLATE, with calcite veins. Rock is mostly intact. Faint brown/rust staining along some natural fractures and along foliation. Soft to medium hard, Slightly weathered, Fair rock, NXDC, RMR = 44	R2 (10-40)	100 (74)	3							
55		Hole stopped @ 54.8 ft										
		Remarks: Hole collapsed at 12.8'										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.												


PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)





FILE NAME: z21j64borlogs.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: R.H. BARNES
BORING LOGS (4 OF 4)

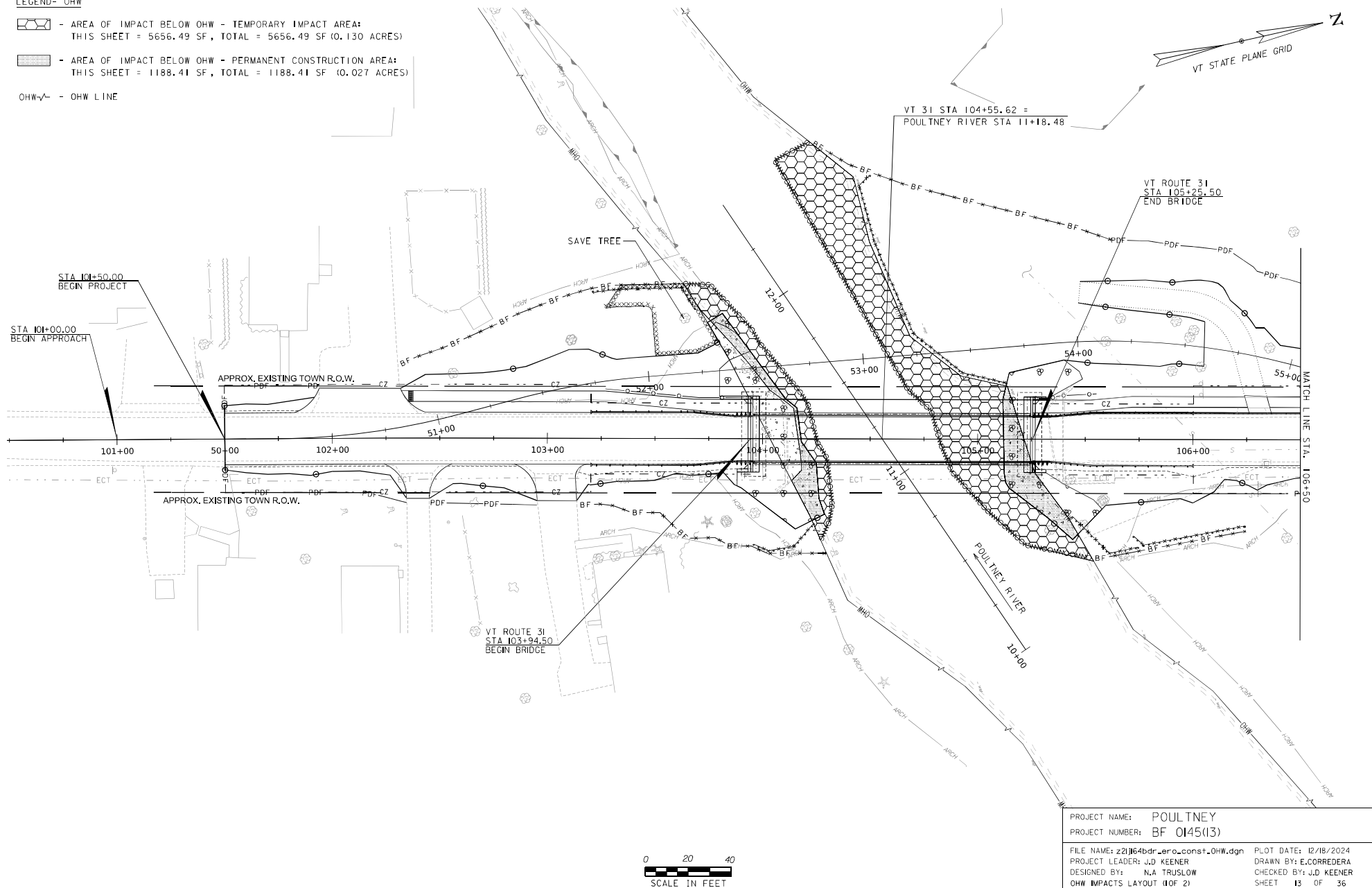
PLOT DATE: 12/18/2024
DRAWN BY: N.A. TRUSLOW
CHECKED BY: R.H. BARNES
SHEET 12 OF 36

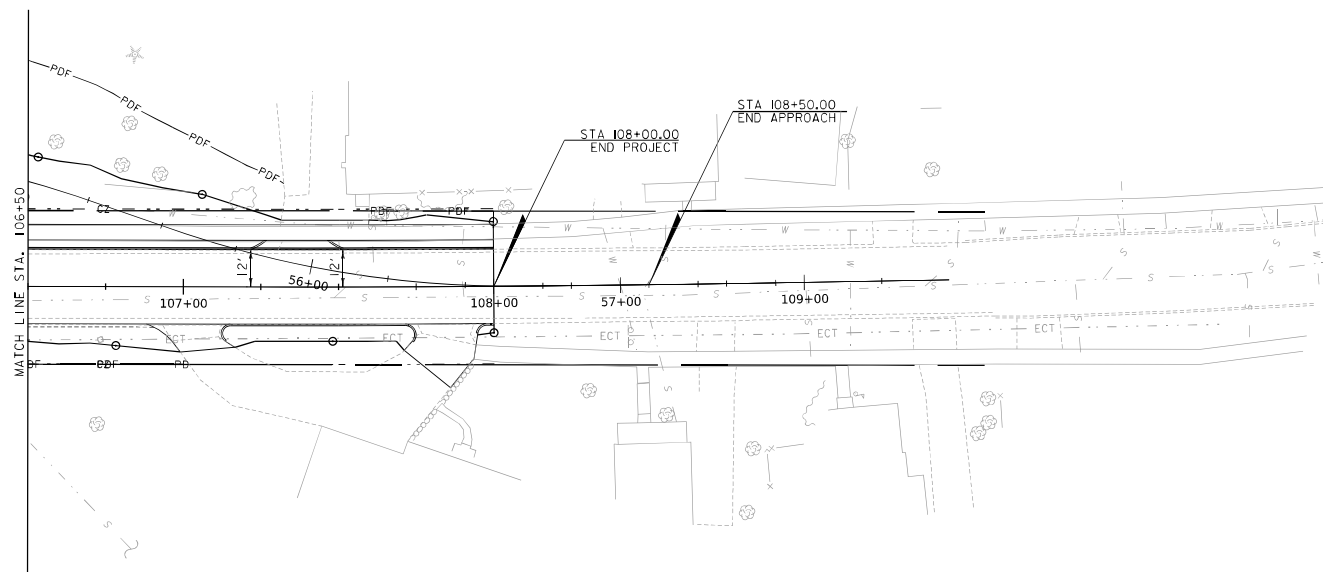
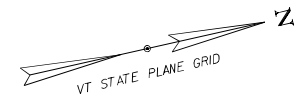
LEGEND- OHW

 - AREA OF IMPACT BELOW OHW - TEMPORARY IMPACT AREA:
THIS SHEET = 5656.49 SF, TOTAL = 5656.49 SF (0.130 ACRES)



 - AREA OF IMPACT BELOW OHW - PERMANENT CONSTRUCTION AREA:
THIS SHEET = 1188.41 SF, TOTAL = 1188.41 SF (0.027 ACRES)

OHW  - OHW LINE

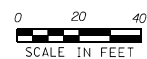




LEGEND - OHW







-  - AREA OF IMPACT BELOW OHW - TEMPORARY IMPACT AREA:
THIS SHEET = 0 SF , TOTAL = 5656.49 SF (0.130 ACRES)
-  - AREA OF IMPACT BELOW OHW - PERMANENT CONSTRUCTION AREA:
THIS SHEET = 0 SF , TOTAL = 1188.41 SF (0.027 ACRES)

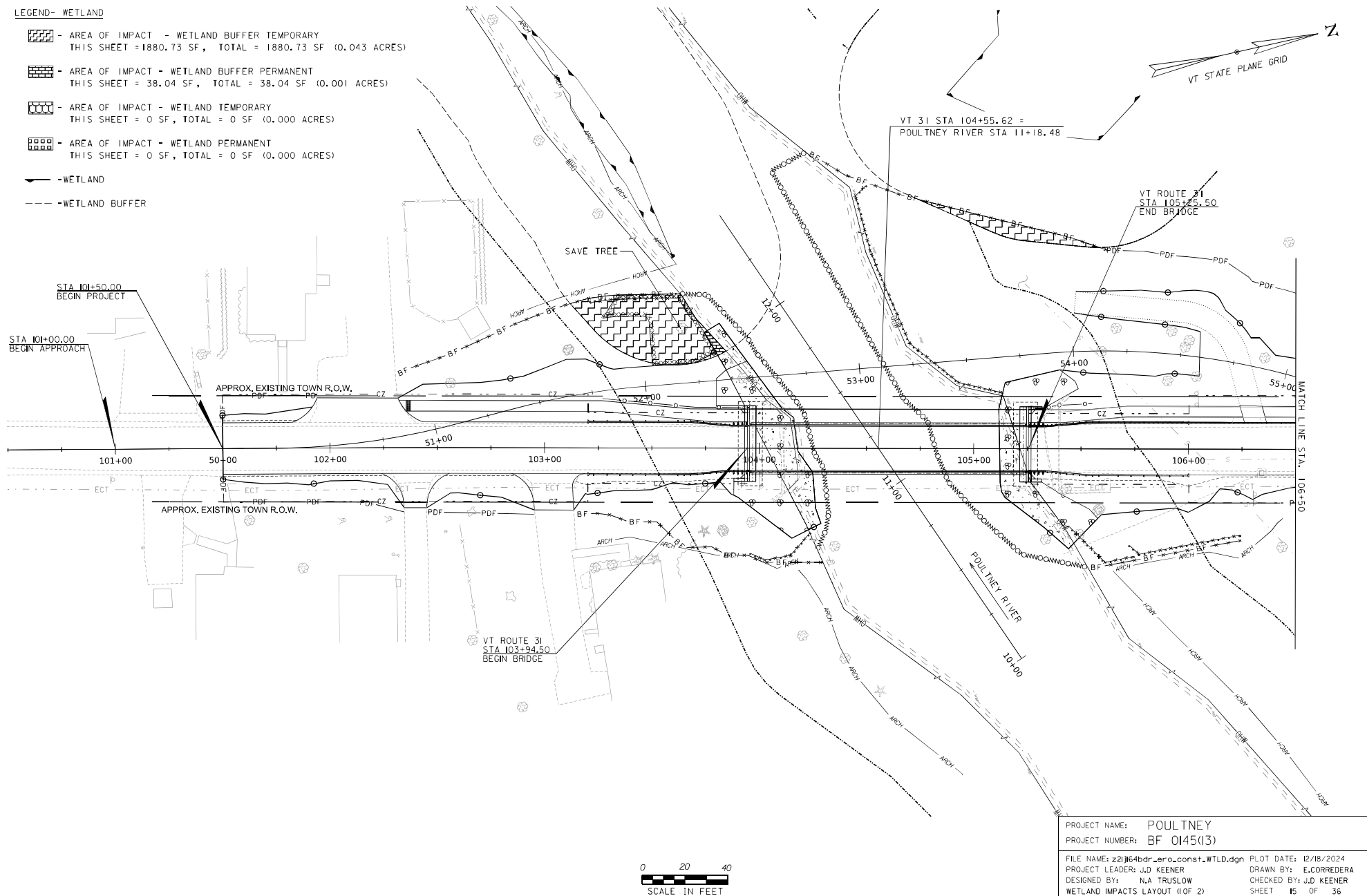
OHW-/- - OHW LINE



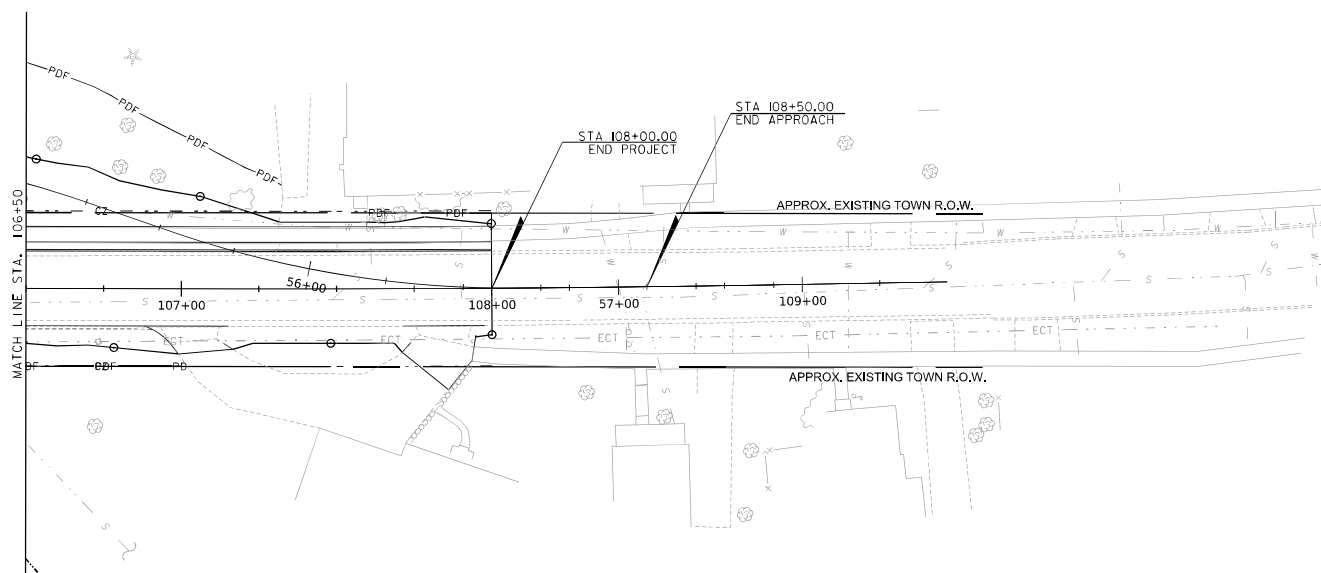
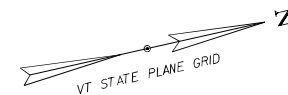
PROJECT NAME: POULTNEY		
PROJECT NUMBER: BF 0145(13)		
FILE NAME: z2j164bdr_ero_const_OHW.dgn	PLOT DATE: 12/18/2024	
PROJECT LEADER: J.D. KEENER	DRAWN BY: E. CORREDERA	
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER	
OHW IMPACTS LAYOUT (2 OF 2)	SHEET 14 OF 36	

LEGEND- WETLAND

-  - AREA OF IMPACT - WETLAND BUFFER TEMPORARY
THIS SHEET = 1880.73 SF, TOTAL = 1880.73 SF (0.043 ACRES)
-  - AREA OF IMPACT - WETLAND BUFFER PERMANENT
THIS SHEET = 38.04 SF, TOTAL = 38.04 SF (0.001 ACRES)
-  - AREA OF IMPACT - WETLAND TEMPORARY
THIS SHEET = 0 SF, TOTAL = 0 SF (0.000 ACRES)
-  - AREA OF IMPACT - WETLAND PERMANENT
THIS SHEET = 0 SF, TOTAL = 0 SF (0.000 ACRES)
-  - WETLAND
-  - WETLAND BUFFER




PROJECT NAME: POULTNEY		PLOT DATE: 12/18/2024	
PROJECT NUMBER: BF 0145(13)		DRAWN BY: E.CORREDEIRA	
FILE NAME: z2\j64bdr_ero_const-WTLD.dgn		DESIGNED BY: N.A. TRUSLOW	
WETLAND IMPACTS LAYOUT (1 OF 2)		CHECKED BY: J.D. KEENER	
		SHEET 15 OF 36	




LEGEND- WETLAND

 - AREA OF IMPACT - WETLAND BUFFER TEMPORARY
THIS SHEET = 0 SF, TOTAL = 1880.73 SF (0.043 ACRES)

 - AREA OF IMPACT - WETLAND BUFFER PERMANENT
THIS SHEET = 0 SF, TOTAL = 38.04 SF (0.001 ACRES)

 - AREA OF IMPACT - WETLAND TEMPORARY
THIS SHEET = 0 SF, TOTAL = 0 SF (0.000 ACRES)

 - AREA OF IMPACT - WETLAND PERMANENT
THIS SHEET = 0 SF, TOTAL = 0 SF (0.000 ACRES)

 - WETLAND

 - WETLAND BUFFER

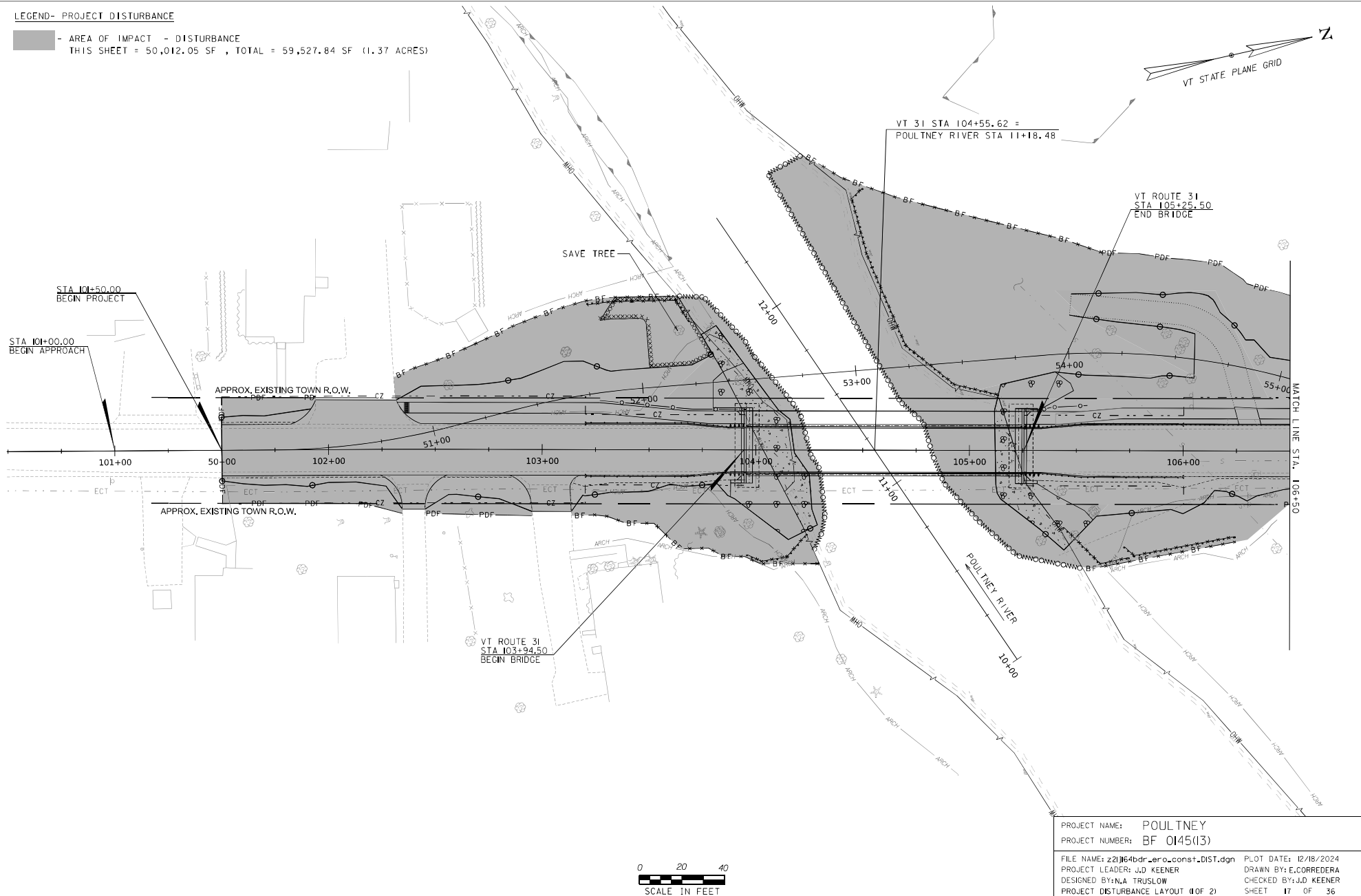
0 20 40
SCALE IN FEET

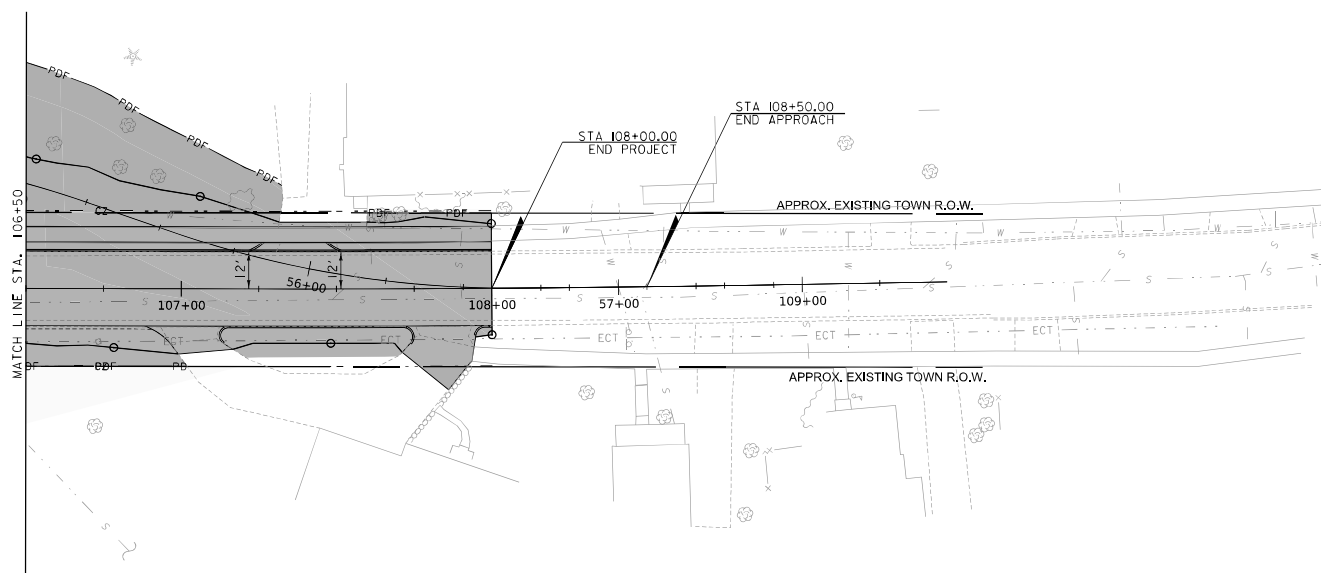
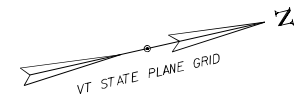
PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164bdr_ero_const_WTLD.dgn PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER DRAWN BY: E.CORREDERA
DESIGNED BY: N.A. TRUSLOW CHECKED BY: J.D. KEENER
WETLAND IMPACTS LAYOUT (2 OF 2) SHEET 16 OF 36

LEGEND- PROJECT DISTURBANCE

- AREA OF IMPACT - DISTURBANCE
THIS SHEET = 50,012.05 SF , TOTAL = 59,527.84 SF (1.37 ACRES)





LEGEND- PROJECT DISTURBANCE

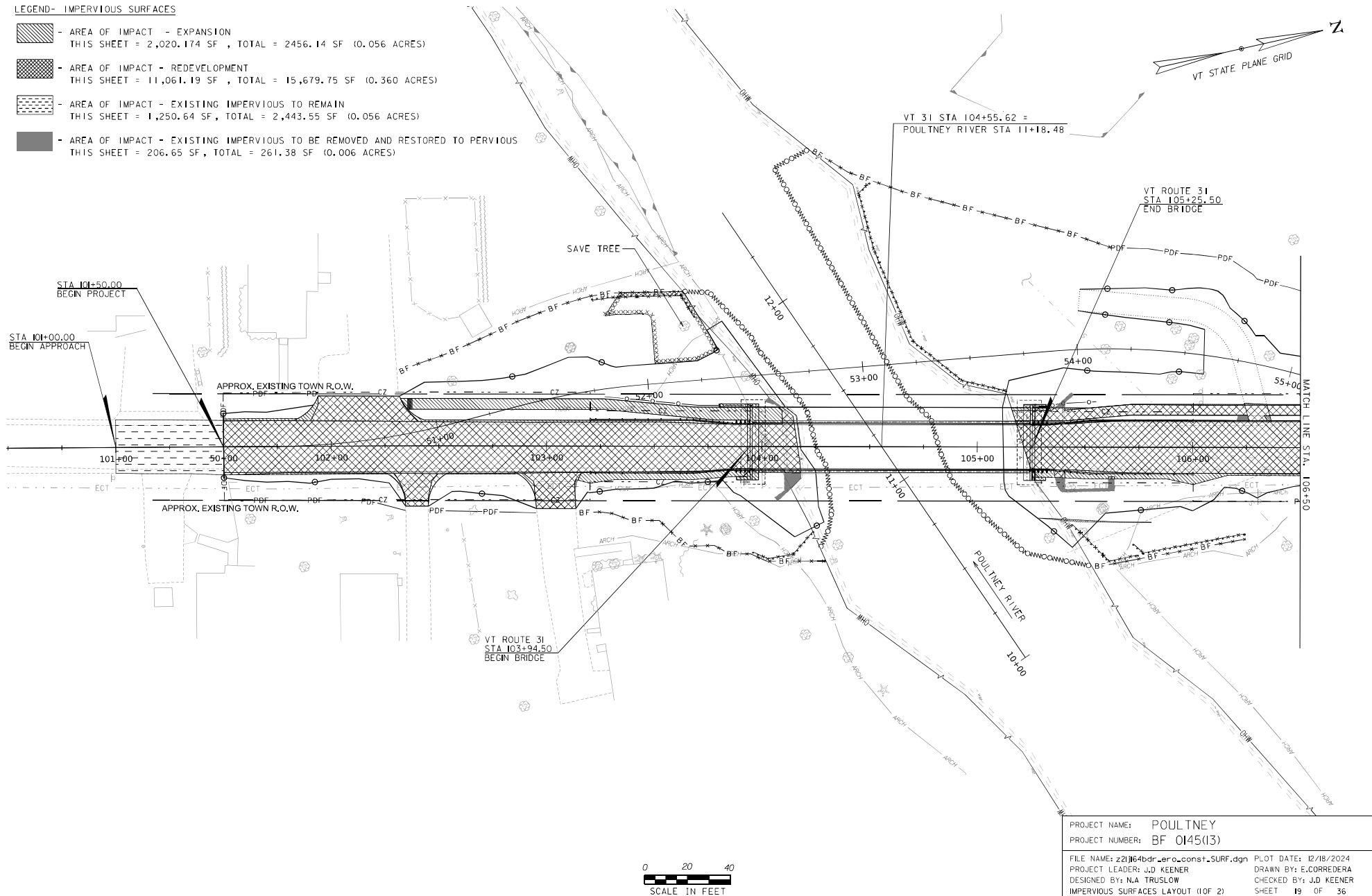
- AREA OF IMPACT - DISTURBANCE
THIS SHEET = 9,515.79 SF , TOTAL = 59,527.84 SF (1.37 ACRES)

0 20 40
SCALE IN FEET

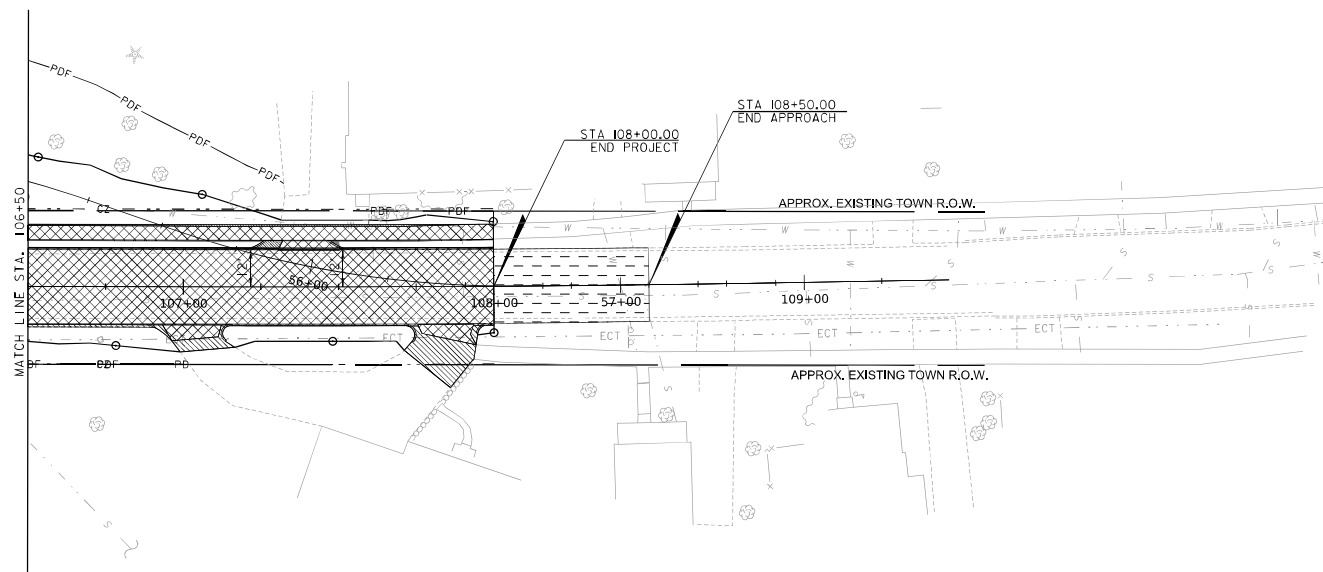
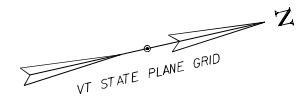
PROJECT NAME: POULTNEY	
PROJECT NUMBER: BF 0145(13)	
FILE NAME: z2\j64bdr_ero_const-DIST.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: E.CORREDERA
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
PROJECT DISTURBANCE LAYOUT (2 OF 2)	SHEET 18 OF 36

LEGEND- IMPERVIOUS SURFACES

- AREA OF IMPACT - EXPANSION
THIS SHEET = 2,020.174 SF , TOTAL = 2456.14 SF (0.056 ACRES)
- AREA OF IMPACT - REDEVELOPMENT
THIS SHEET = 11,061.19 SF , TOTAL = 15,679.75 SF (0.360 ACRES)
- AREA OF IMPACT - EXISTING IMPERVIOUS TO REMAIN
THIS SHEET = 1,250.64 SF , TOTAL = 2,443.55 SF (0.056 ACRES)
- AREA OF IMPACT - EXISTING IMPERVIOUS TO BE REMOVED AND RESTORED TO PERVIOUS
THIS SHEET = 206.65 SF , TOTAL = 261.38 SF (0.006 ACRES)



PROJECT NAME: POULTNEY
 PROJECT NUMBER: BF 0145(13)
 FILE NAME: z2j164bdr_ero_const+SURF.dgn
 PROJECT LEADER: J.D. KEENER
 DESIGNED BY: N.A. TRUSLOW
 IMPERVIOUS SURFACES LAYOUT (1 OF 2)
 PLOT DATE: 12/18/2024
 DRAWN BY: E. CORREDERA
 CHECKED BY: J.D. KEENER
 SHEET 19 OF 36




LEGEND- IMPERVIOUS SURFACES

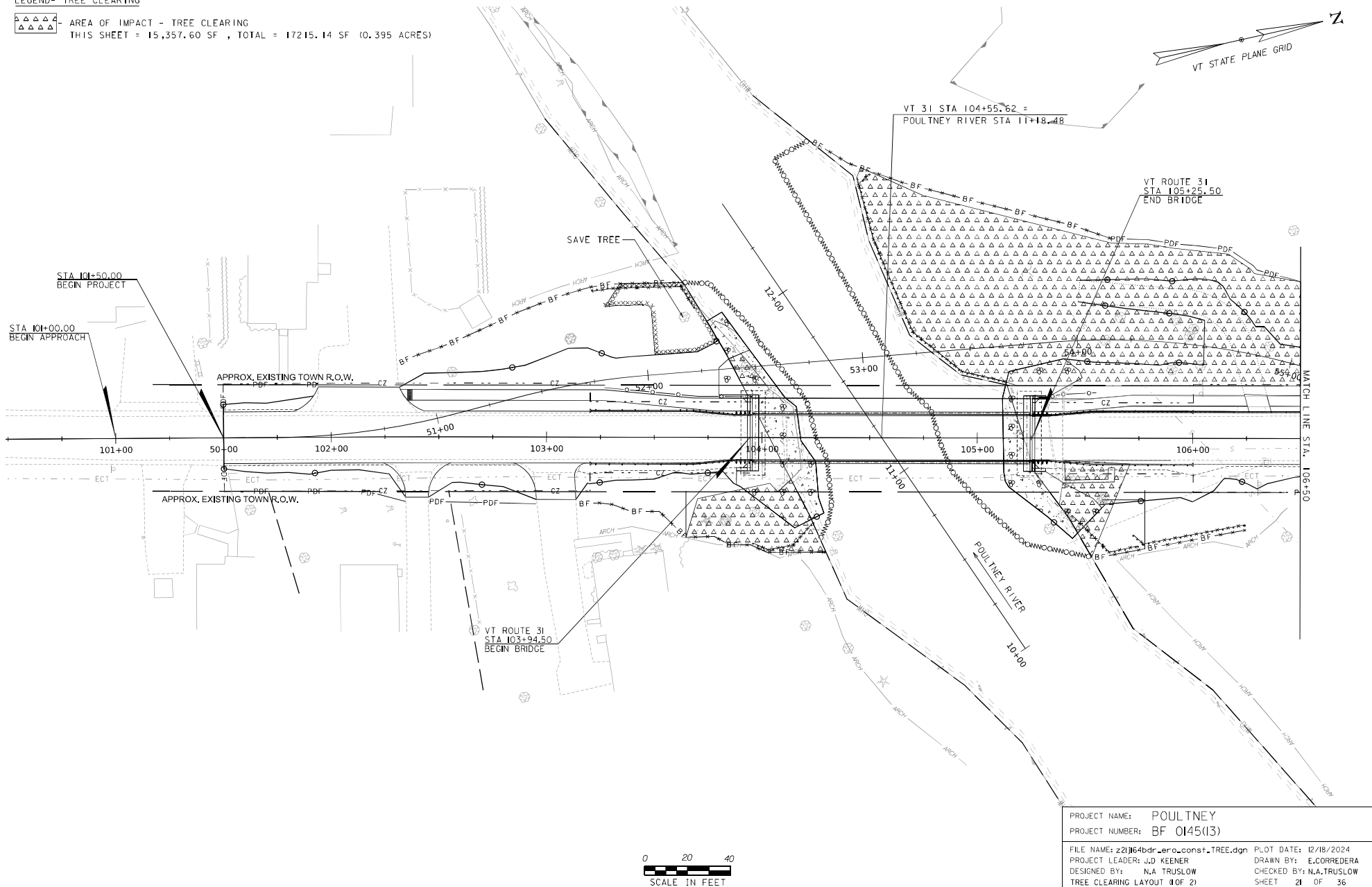
- AREA OF IMPACT - EXPANSION
THIS SHEET = 435.97 SF , TOTAL = 2456.14 (0.056 ACRES)
- AREA OF IMPACT - REDEVELOPMENT
THIS SHEET = 4,618.57 SF , TOTAL = 15679.75 SF (0.360 ACRES)
- AREA OF IMPACT - EXISTING IMPERVIOUS TO REMAIN
THIS SHEET = 1192.91 SF , TOTAL = 2443.55 SF (0.056 ACRES)
- AREA OF IMPACT - EXISTING IMPERVIOUS TO BE REMOVED AND RESTORED TO PERVIOUS
THIS SHEET = 54.73 SF , TOTAL = 261.38 SF (0.006 ACRES)

0 20 40
SCALE IN FEET

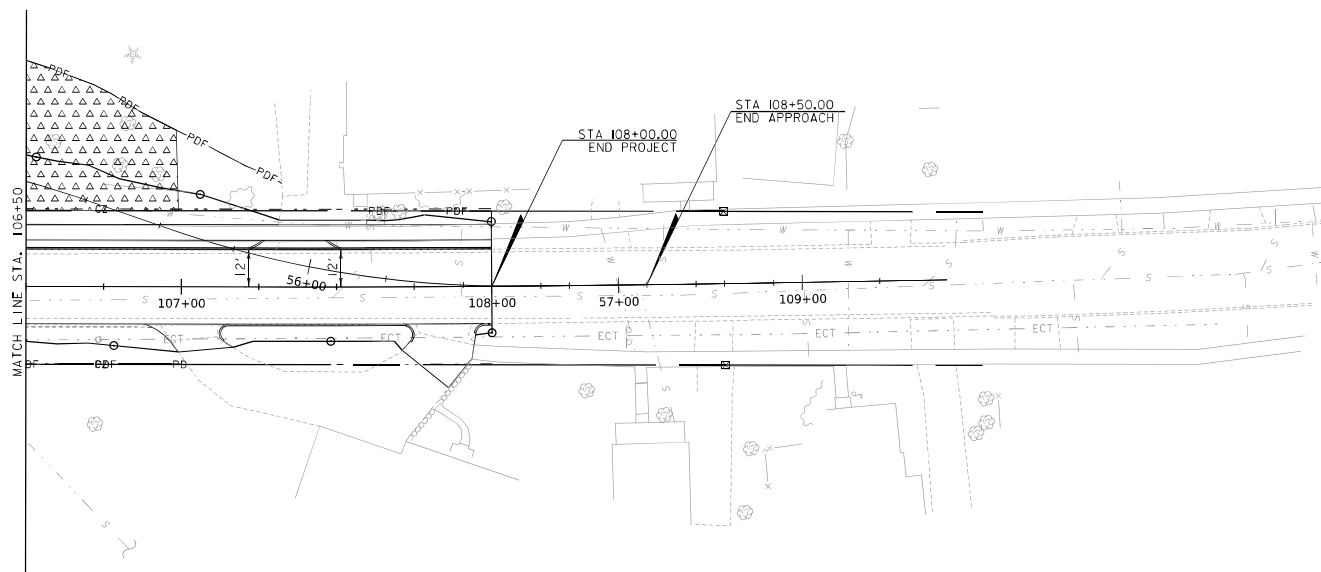
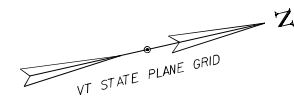
PROJECT NAME: POULTNEY	
PROJECT NUMBER: BF 0145(13)	
FILE NAME: z2j164bdr_ero_const-SURF.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: E.CORREDERA
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
IMPERVIOUS SURFACES LAYOUT (2 OF 2)	SHEET 20 OF 36

LEGEND- TREE CLEARING

 AREA OF IMPACT - TREE CLEARING
 THIS SHEET = 15,357.60 SF , TOTAL = 17215.14 SF (0.395 ACRES)

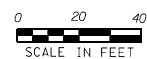


PROJECT NAME: POULTNEY		PLOT DATE: 12/18/2024	
PROJECT NUMBER: BF 0145(13)		DRAWN BY: E.CORREDERA	
FILE NAME: z2\j64bdr_ero_const-TREE.dgn		DESIGNED BY: N.A. TRUSLOW	
PROJECT LEADER: J.D. KEENER		CHECKED BY: N.A. TRUSLOW	
TREE CLEARING LAYOUT (1 OF 2)		SHEET 21 OF 36	

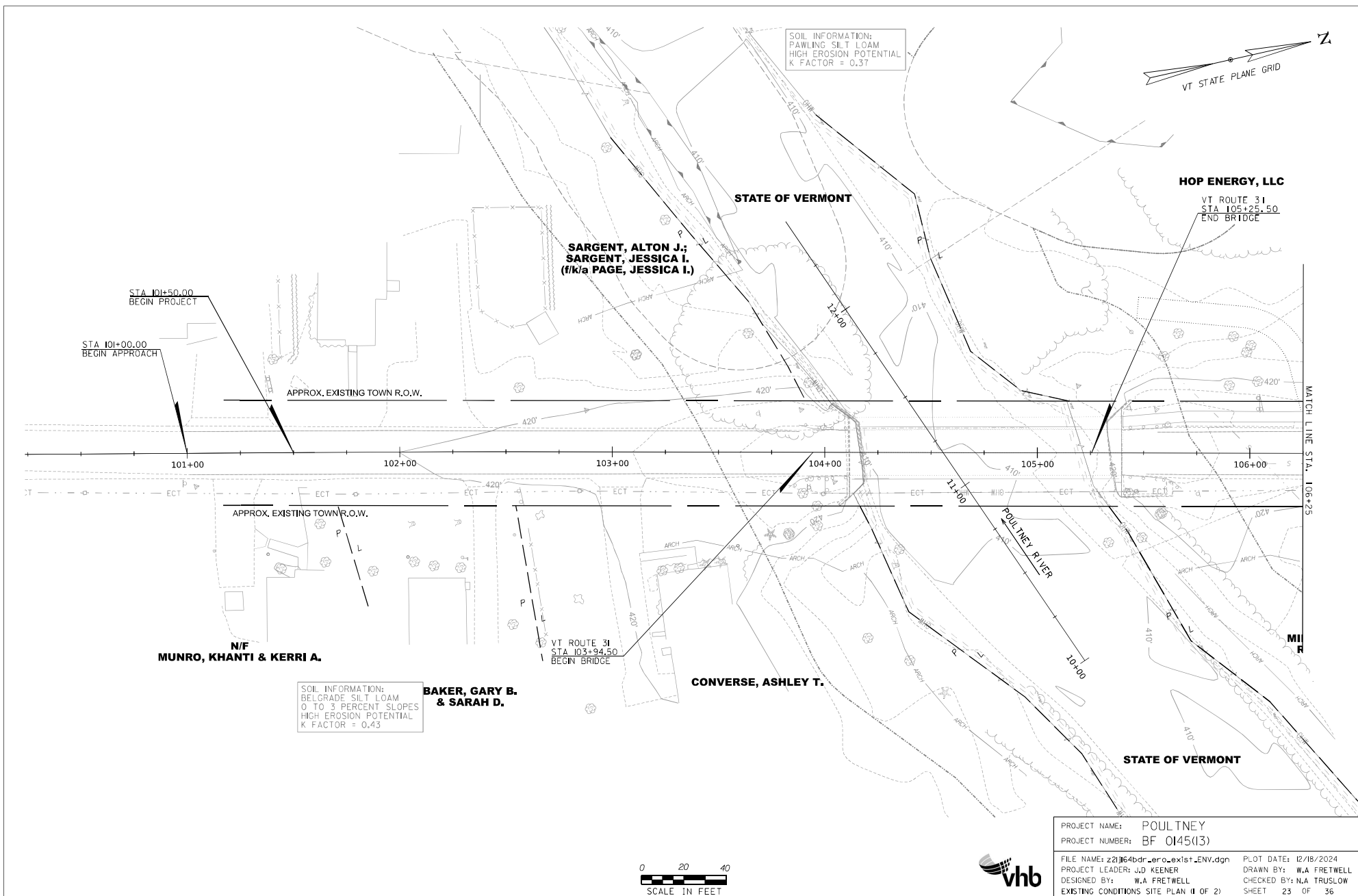


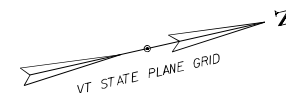
LEGEND- TREE CLEARING


 AREA OF IMPACT - TREE CLEARING
 THIS SHEET = 1,857.54 SF , TOTAL = 17,215.14 SF (0.395 ACRES)



PROJECT NAME: POULTNEY		PLOT DATE: 12/18/2024	
PROJECT NUMBER: BF 0145(13)		DRAWN BY: E.CORREDERA	
FILE NAME: z2\j64bdr_ero_const+.TREE.dgn		DESIGNED BY: N.A. TRUSLOW	
TREE CLEARING LAYOUT (2 OF 2)		CHECKED BY: N.A. TRUSLOW	
		SHEET 22 OF 36	





SOIL INFORMATION:
TEEL SILT LOAM, SANDY SUBSTRATUM
HIGH EROSION POTENTIAL
K FACTOR = 0.37

HOP ENERGY, LLC

ETTORI, STELLA M.

**N/F
BONI, KRISTA T.**

**N/F
WILKINS, MARY**

STA 108+00.00
END PROJECT

STA 108+50.00
END APPROACH

APPROX. EXISTING TOWN R.O.W.

MATCH LINE STA. 106+25

107+00

108+00

109+00

APPROX. EXISTING TOWN R.O.W.

MINTHORN, ROBERT

MINTHORN, ROBERT

**N/F
CAPMAN, DAVID
& MAUREEN**

**N/F
HAMILTON - BARRETT, RUTH A.
& KELLOGG, LISA**

SOIL INFORMATION:
WARWICK-QUONSET COMPLEX
0 TO 3 PERCENT SLOPES
LOW EROSION POTENTIAL
K FACTOR = 0.15

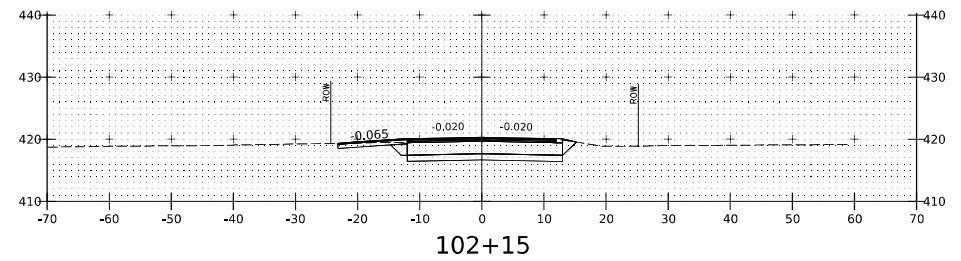
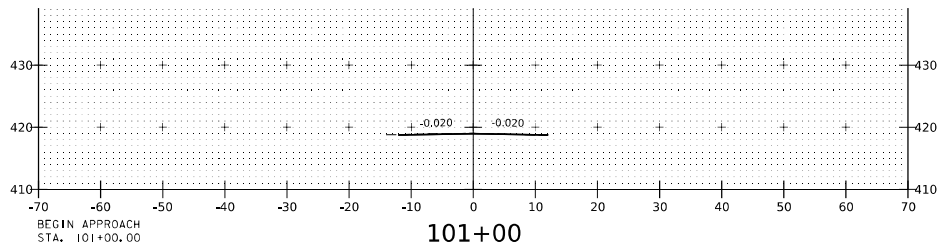
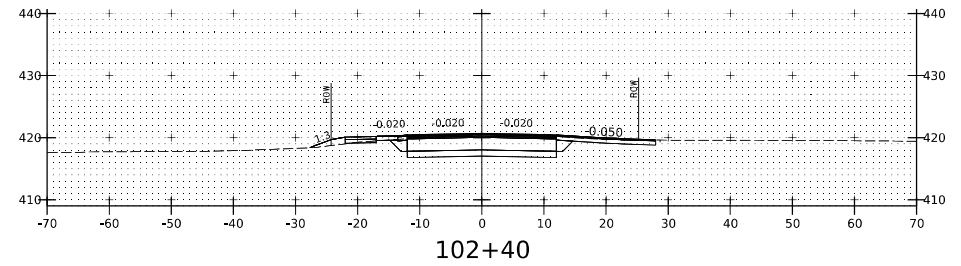
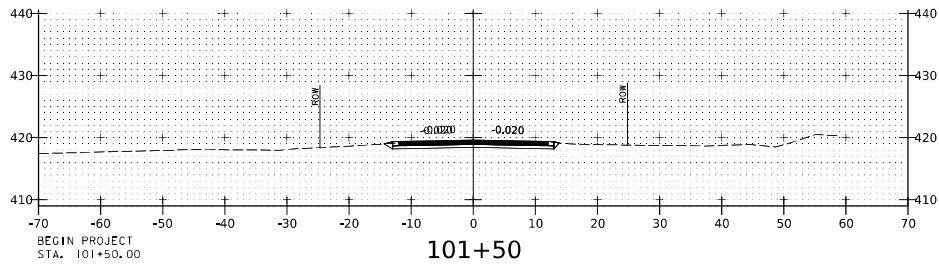
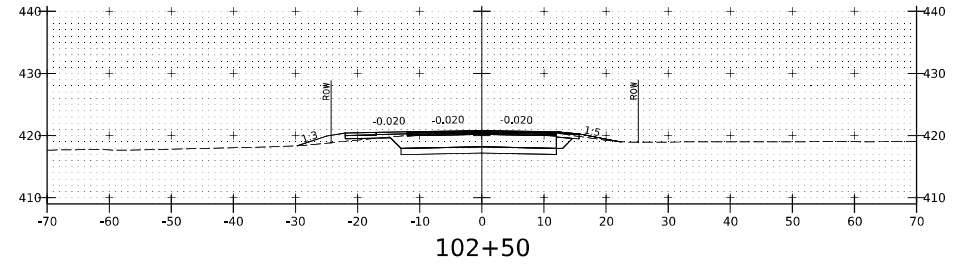
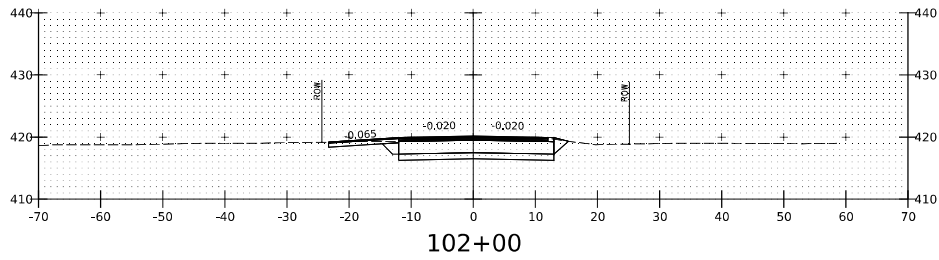
0 20 40
SCALE IN FEET



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164bdr_ero_exist_ENV.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: W.A. FRETWELL
EXISTING CONDITIONS SITE PLAN (2 OF 2)

PLOT DATE: 12/18/2024
DRAWN BY: W.A. FRETWELL
CHECKED BY: N.A. TRUSLOW
SHEET 24 OF 36



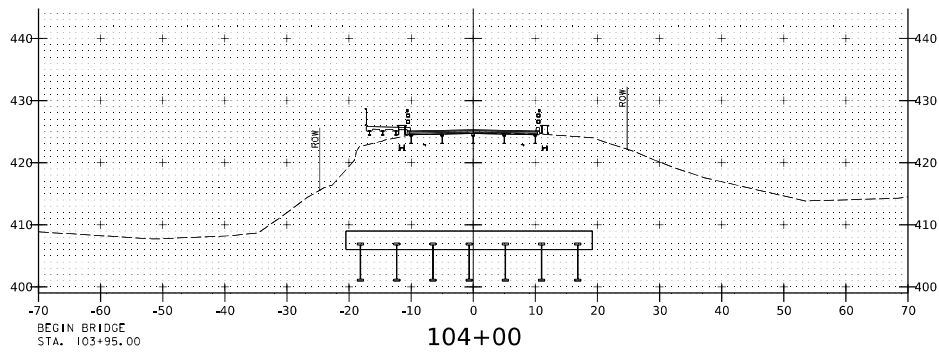
VT ROUTE 31

PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

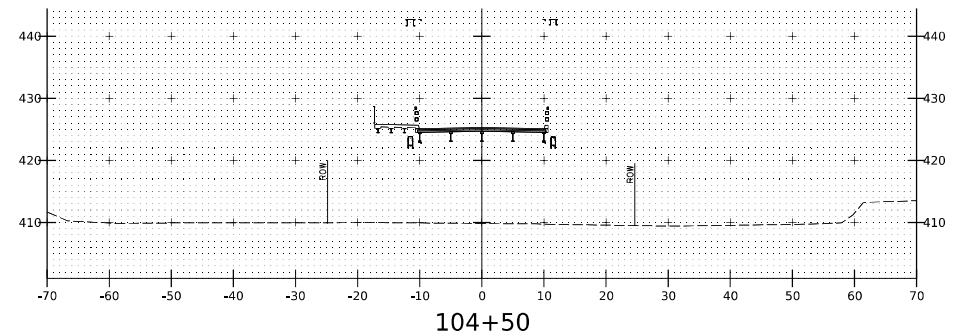
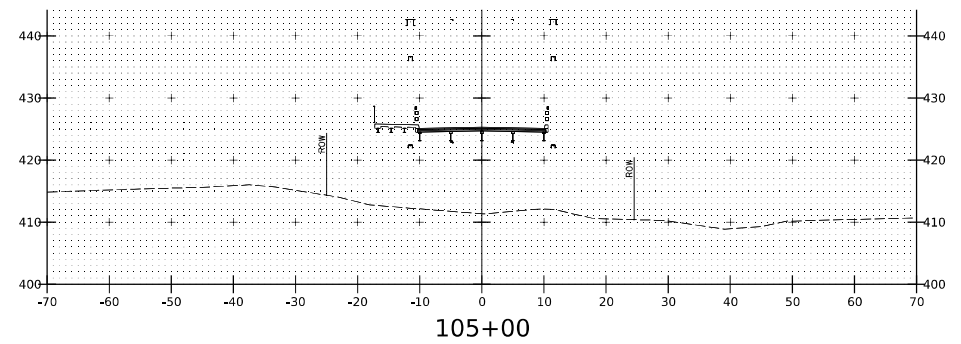
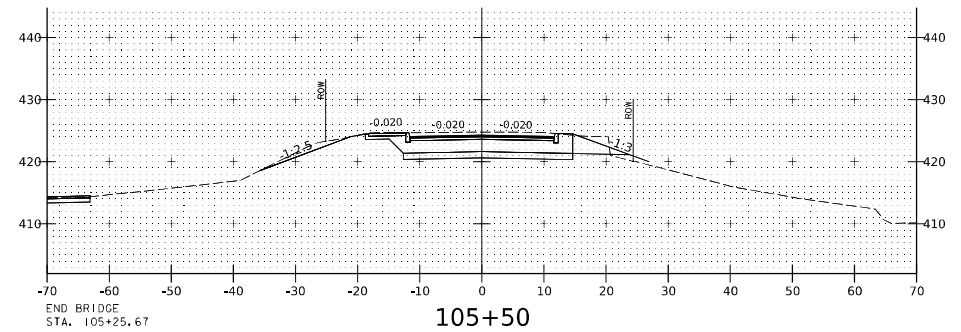
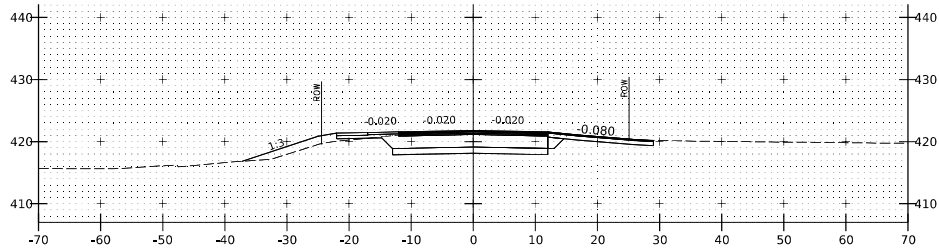
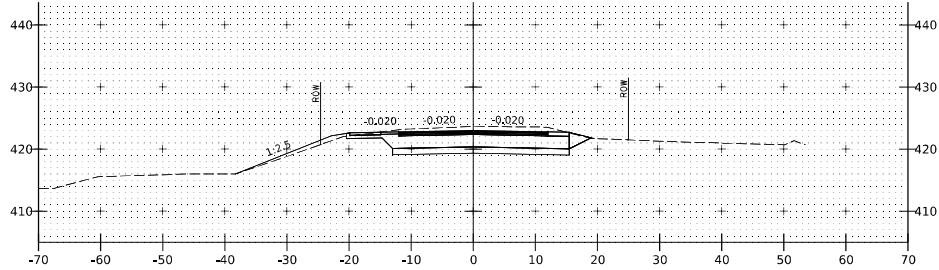
FILE NAME: z2j064xs.vt3dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: T.D. BURT
VT 31 CROSS SECTION SHEET (1 OF 4)

PLOT DATE: 12/18/2024
DRAWN BY: T.D. BURT
CHECKED BY: J.D. KEENER
SHEET 25 OF 36

STA. 101+00 TO STA. 102+50



104+00



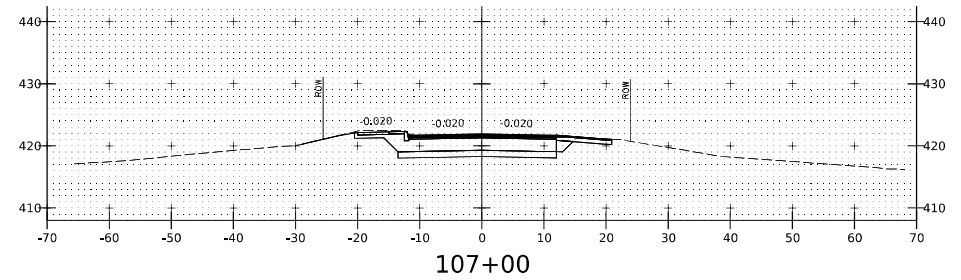
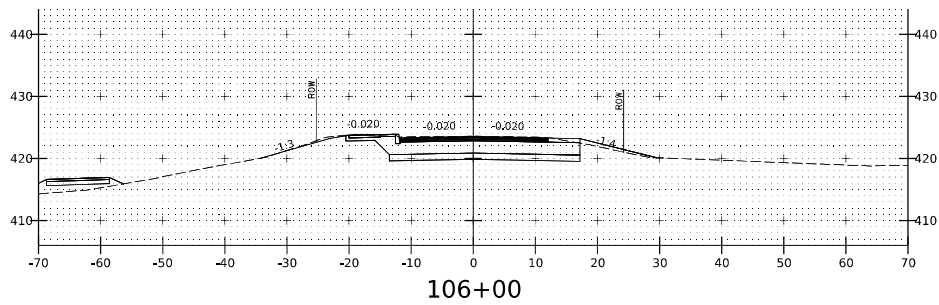
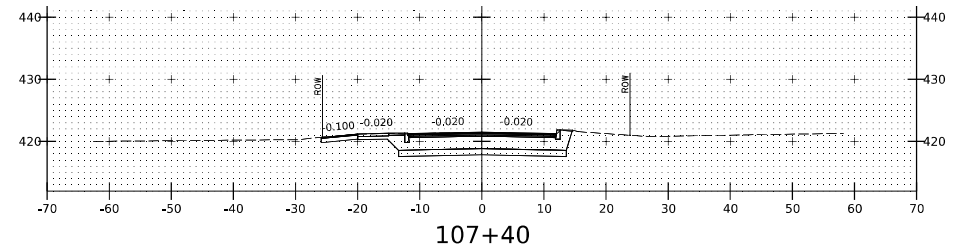
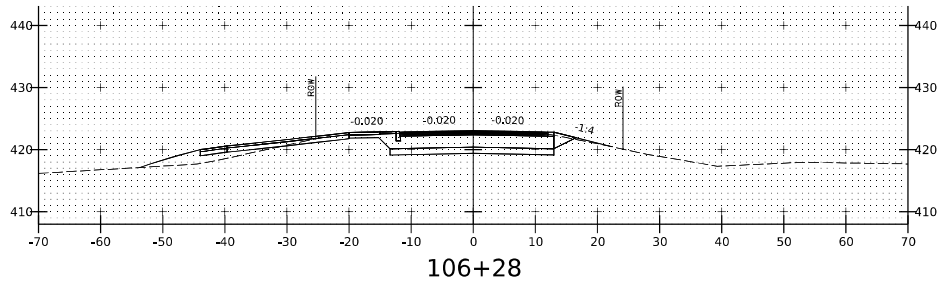
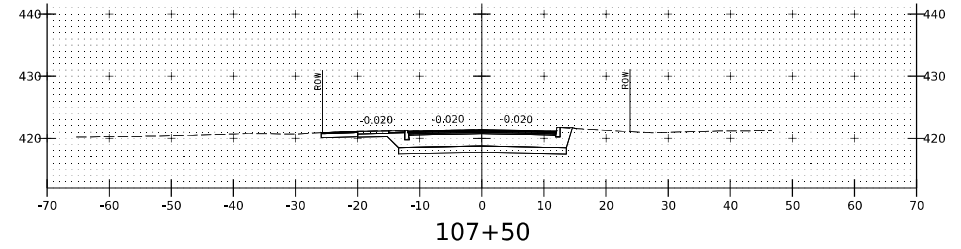
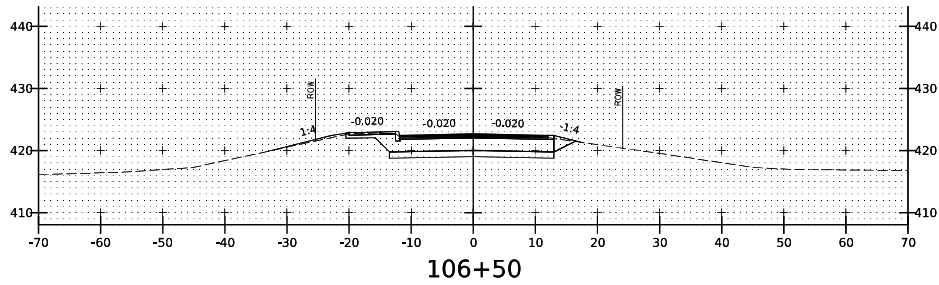
VT ROUTE 31

PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j64xs.vt3ldgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: T.D. BURT
VT 31 CROSS SECTIONS SHEET (2 OF 4)

PLOT DATE: 12/18/2024
DRAWN BY: T.D. BURT
CHECKED BY: J.D. KEENER
SHEET 26 OF 36

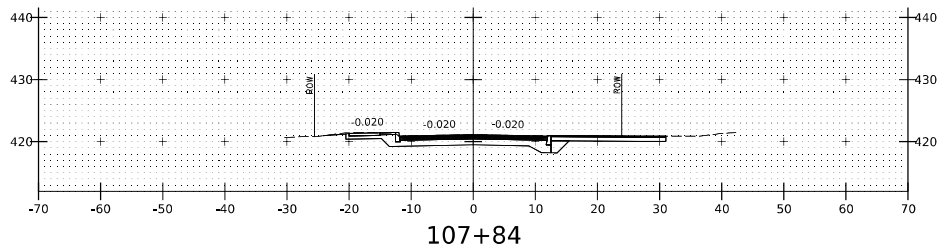
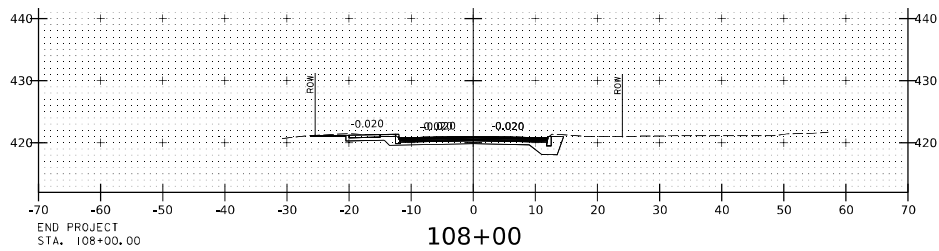
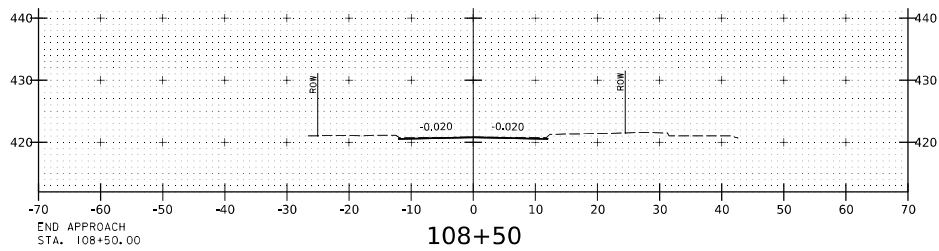
STA. 103+00 TO STA. 105+50



VT ROUTE 31

PROJECT NAME: POULTNEY	
PROJECT NUMBER: BF 0145(13)	
FILE NAME: z2j064xs.vt3dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.D. BURT
DESIGNED BY: T.D. BURT	CHECKED BY: J.D. KEENER
VT 31 CROSS SECTIONS SHEET (3 OF 4)	SHEET 27 OF 36

STA. 106+00 TO STA. 107+50

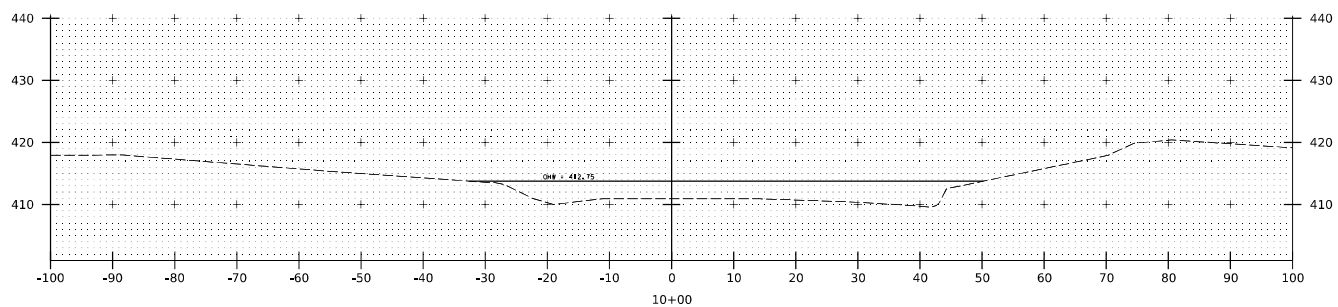
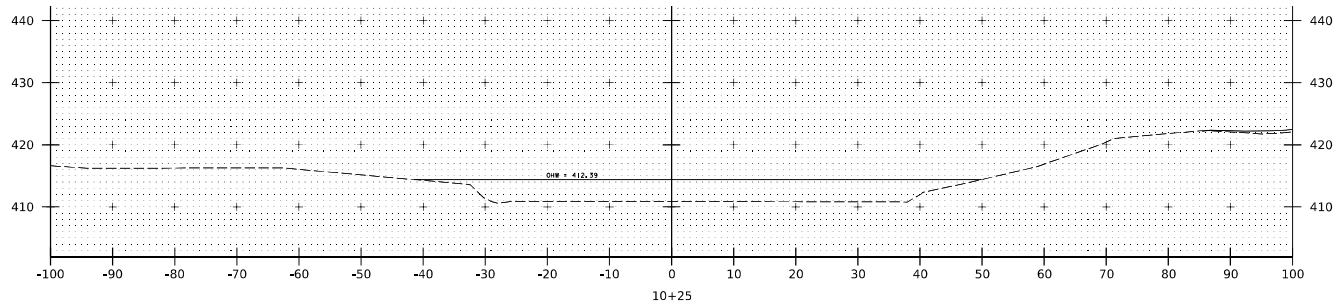
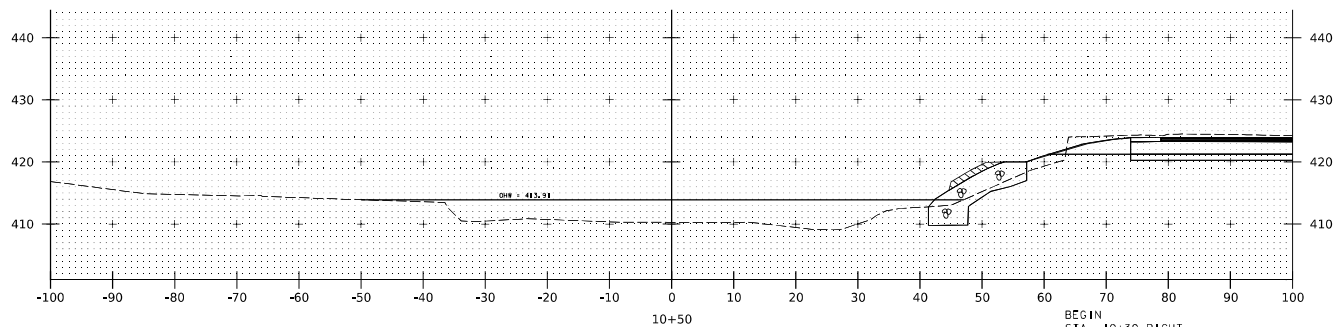


VT ROUTE 31

PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164xs.vt3dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.D. BURT
DESIGNED BY: T.D. BURT	CHECKED BY: J.D. KEENER
VT 31 CROSS SECTIONS SHEET (4 OF 4)	SHEET 28 OF 36

STA. 107+84 TO STA. 108+50



POULTNEY RIVER CROSS SECTIONS

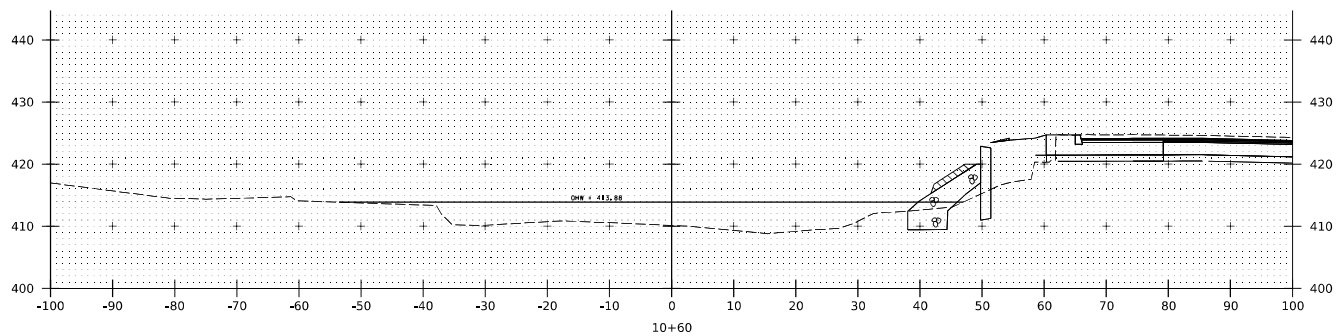
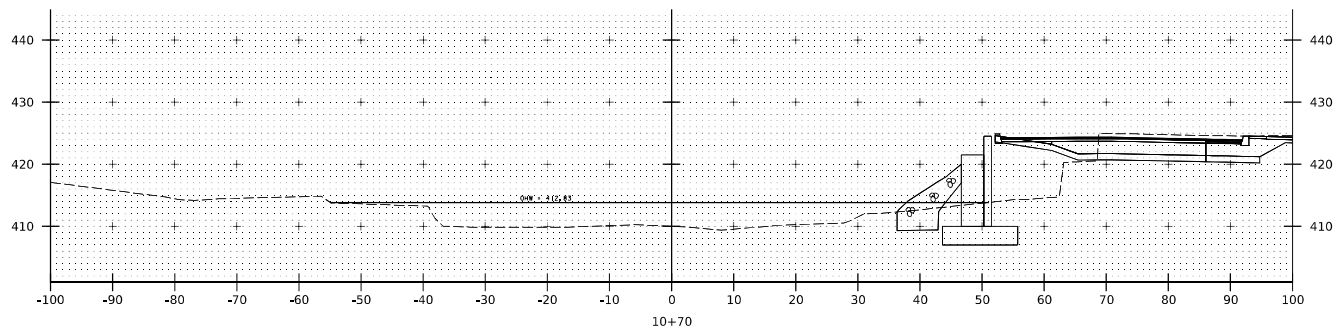
STA. 10+00 - 10+50
SCALE 1" = 10'-0"



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j064xs_channel.dgn
PROJECT LEADER: J.D. KEENER
DESIGNED BY: N.A. TRUSLOW
CHANNEL CROSS SECTIONS SHEET (1 OF 8)

PLOT DATE: 12/18/2024
DRAWN BY: T.O. BURT
CHECKED BY: J.D. KEENER
SHEET 29 OF 36

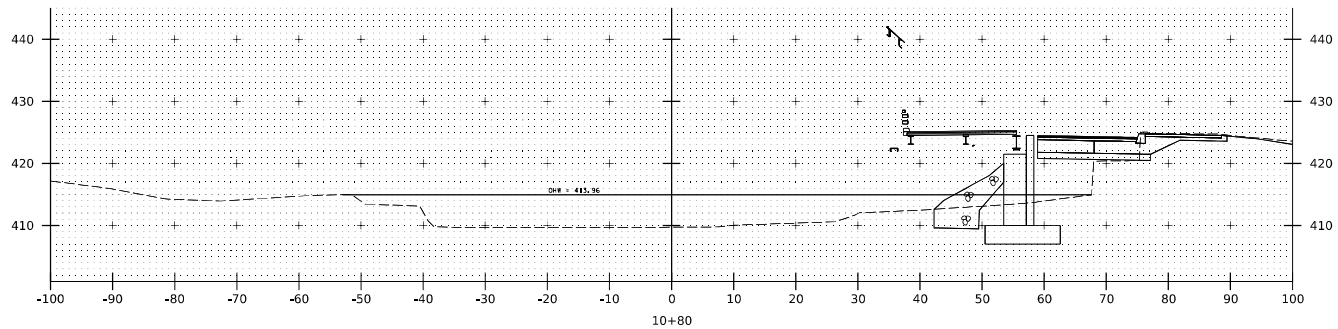
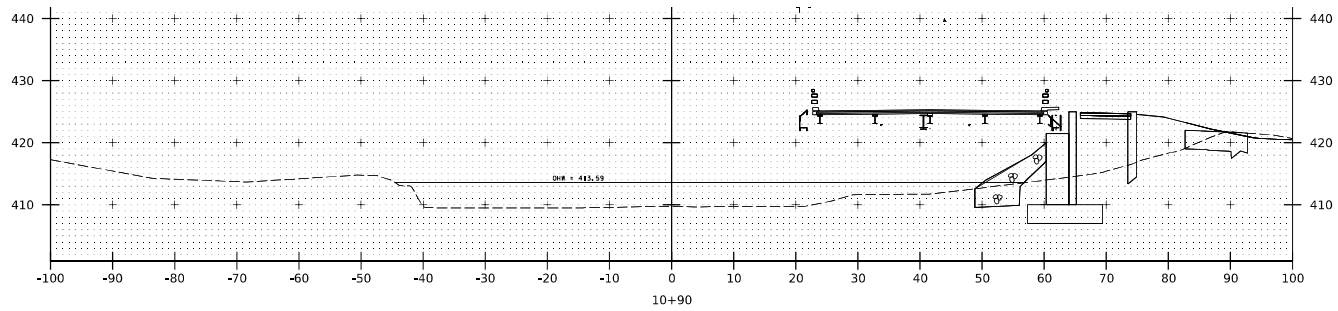
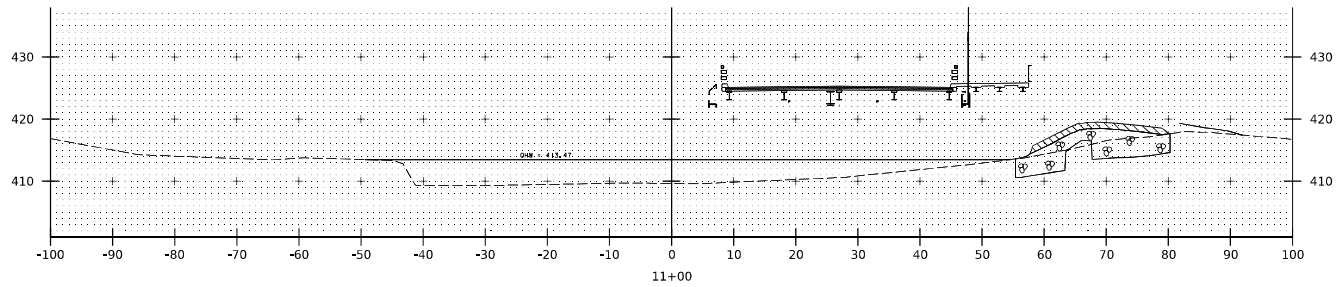


POULTNEY RIVER CROSS SECTIONS

STA. 10+60 - 10+70
SCALE 1" = 10'-0"



PROJECT NAME: POULTNEY		PLOT DATE: 12/18/2024	
PROJECT NUMBER: BF 0145(13)		DRAWN BY: T.J. BURT	
FILE NAME: z2j164xs_channel.dgn		DESIGNED BY: N.A. TRUSLOW	
PROJECT LEADER: J.D. KEENER		CHECKED BY: J.D. KEENER	
CHANNEL CROSS SECTIONS SHEET (2 OF 8)		SHEET 30 OF 36	



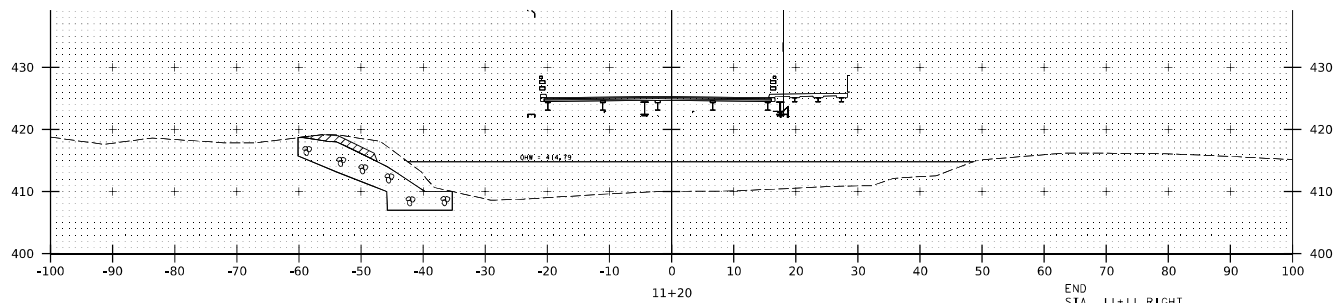
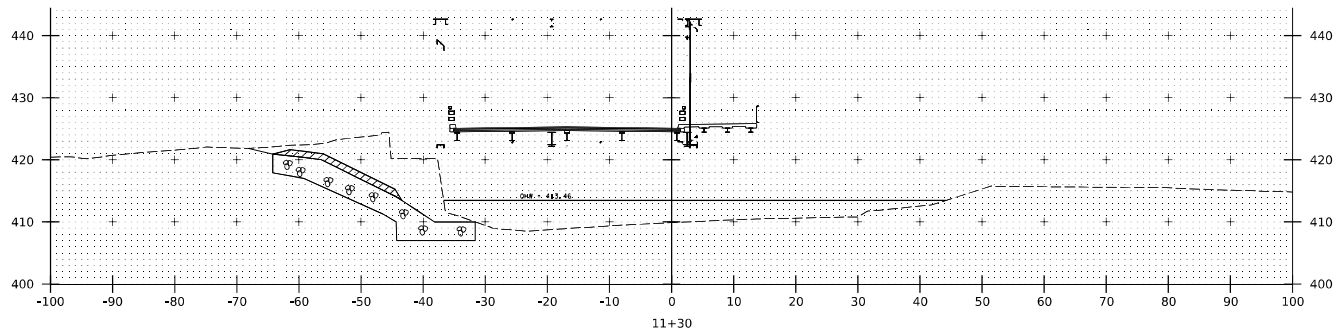
POULTNEY RIVER CROSS SECTIONS

STA. 10+80 - 11+00
SCALE 1" = 10' - 0"

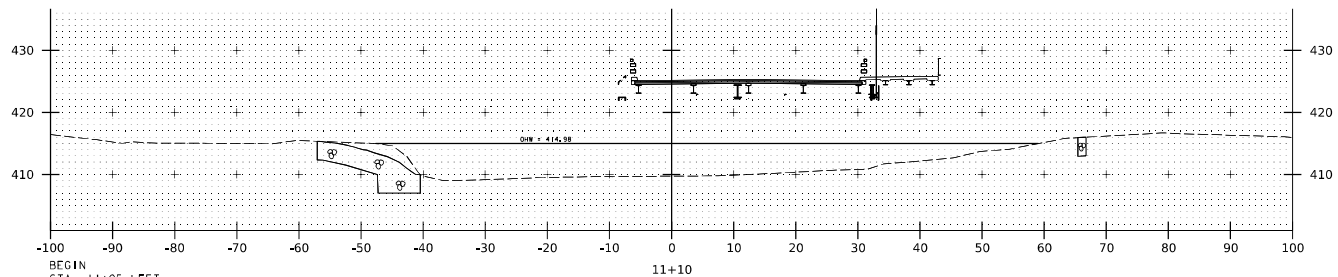


PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164xs_channel.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.O. BURT
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
CHANNEL CROSS SECTIONS SHEET (3 OF 8)	SHEET 31 OF 36



END
STA. 11+11 RIGHT
UNCLASSIFIED CHANNEL EXCAVATION
GRUBBING MATERIAL
STONE FILL, TYPE III
GEOTEXTILE UNDER STONE FILL



BEGIN
STA. 11+05 LEFT
UNCLASSIFIED CHANNEL EXCAVATION
GRUBBING MATERIAL
STONE FILL, TYPE III
GEOTEXTILE UNDER STONE FILL

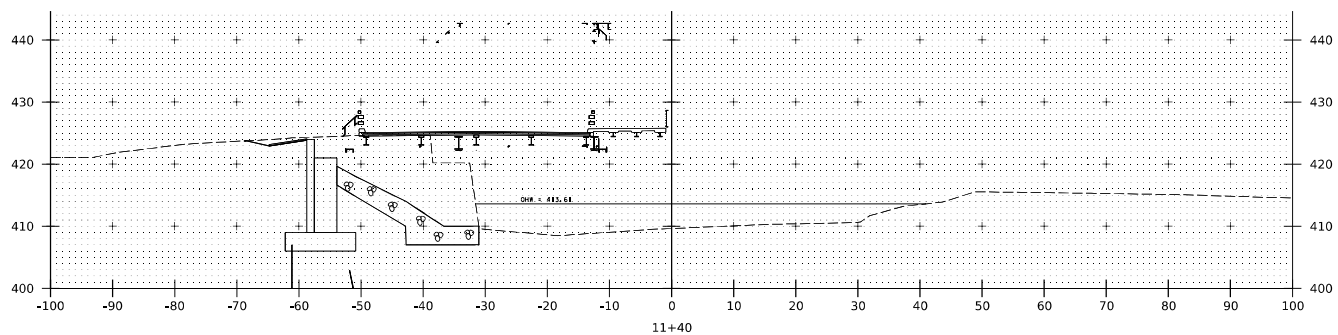
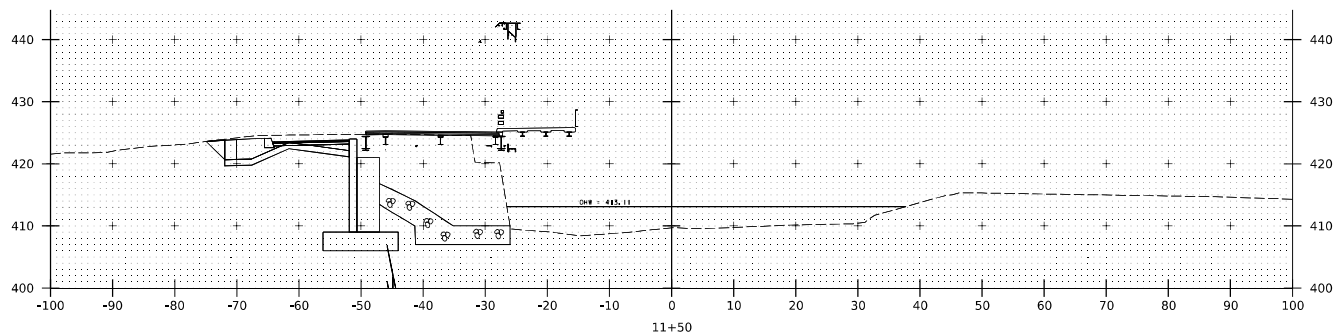
POULTNEY RIVER CROSS SECTIONS

STA. 11+10 - 11+30
SCALE 1" = 10'-0"



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j064xs_channel.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.O. BURT
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
CHANNEL CROSS SECTIONS SHEET (4 OF 8)	SHEET 32 OF 36



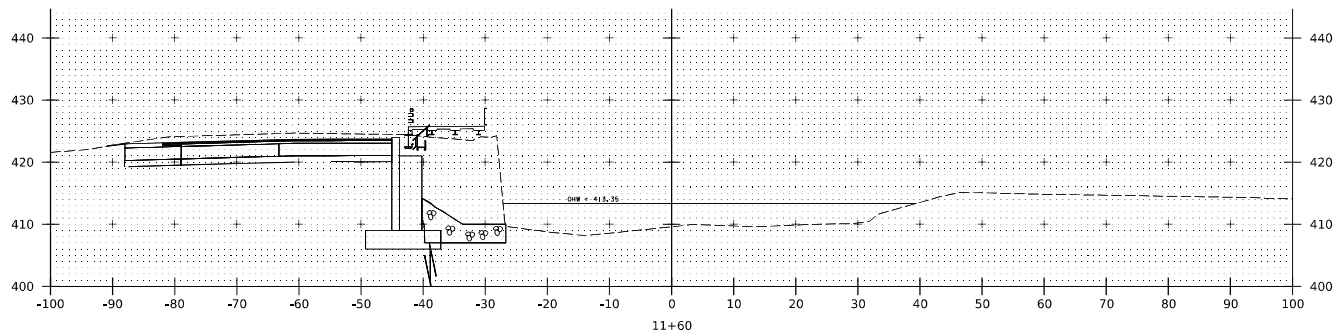
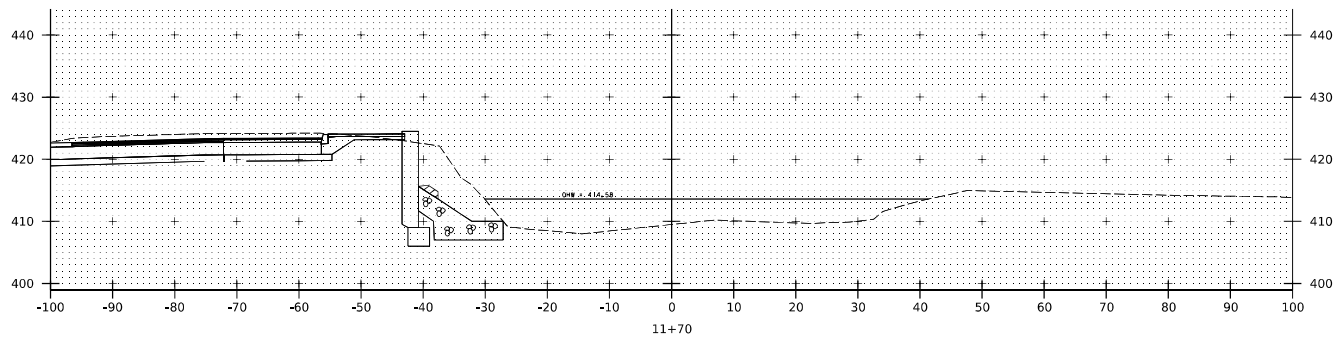
POULTNEY RIVER CROSS SECTIONS

STA. 11+40 - 11+50
SCALE 1" = 10' - 0"



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164xs_channel.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.O. BURT
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
CHANNEL CROSS SECTIONS SHEET (5 OF 8)	SHEET 33 OF 36



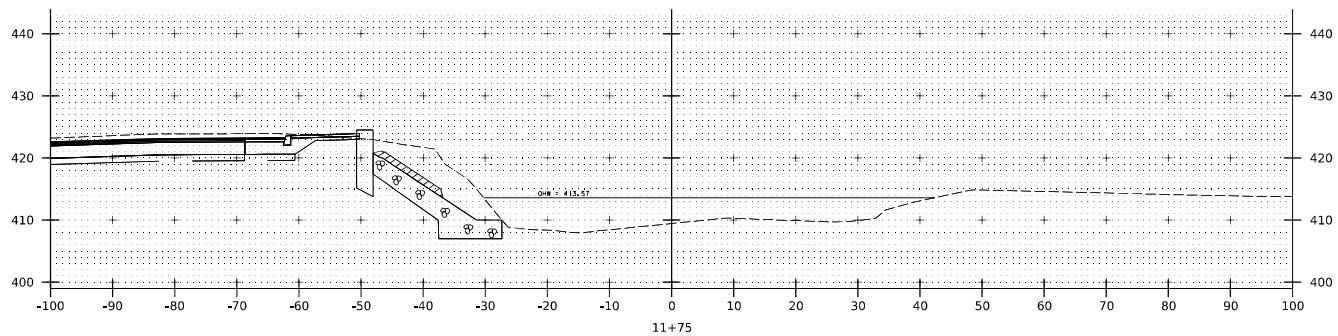
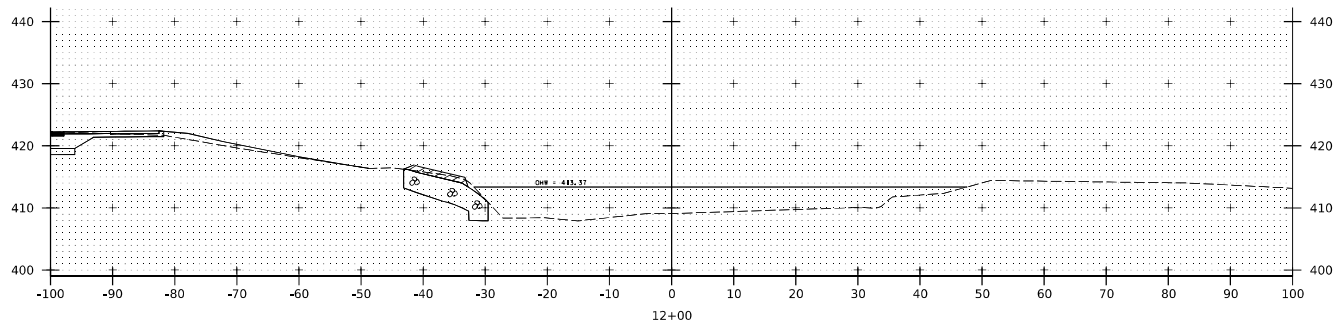
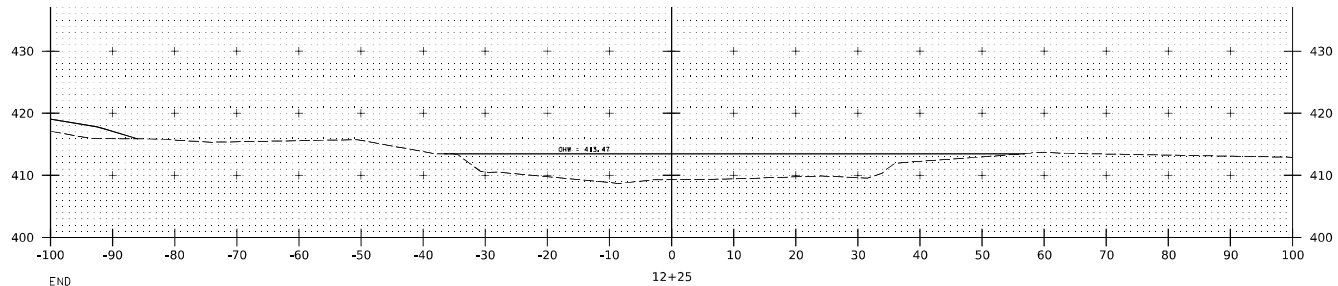
POULTNEY RIVER CROSS SECTIONS

STA. 11+60 - 11+70
SCALE 1" = 10' - 0"



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164xs_channel.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.O. BURT
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
CHANNEL CROSS SECTIONS SHEET (6 OF 8)	SHEET 34 OF 36



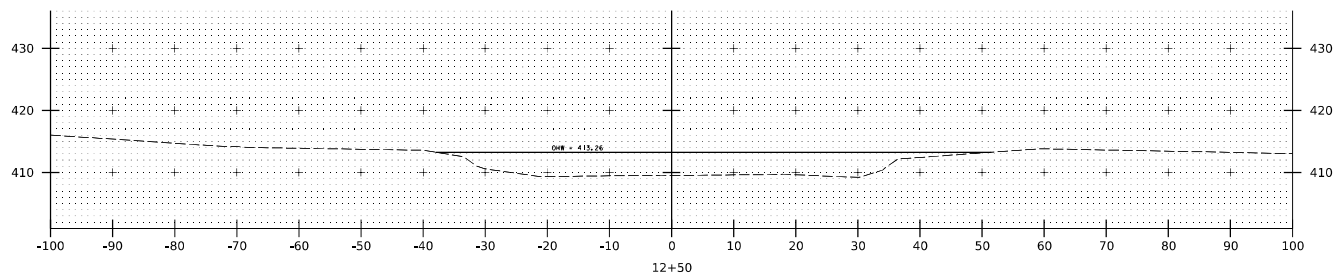
POULTNEY RIVER CROSS SECTIONS

STA. 11+75 - 12+25
SCALE 1" = 10'-0"



PROJECT NAME: POULTNEY
PROJECT NUMBER: BF 0145(13)

FILE NAME: z2j164xs_channel.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.O. BURT
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
CHANNEL CROSS SECTIONS SHEET (7 OF 8)	SHEET 35 OF 36



POULTNEY RIVER CROSS SECTIONS

STA. 12+50
SCALE 1" = 10'-0"



PROJECT NAME: POULTNEY	
PROJECT NUMBER: BF 0145(13)	
FILE NAME: z2j164xs_channel.dgn	PLOT DATE: 12/18/2024
PROJECT LEADER: J.D. KEENER	DRAWN BY: T.J. BURT
DESIGNED BY: N.A. TRUSLOW	CHECKED BY: J.D. KEENER
CHANNEL CROSS SECTIONS SHEET (8 OF 8)	SHEET 36 OF 36