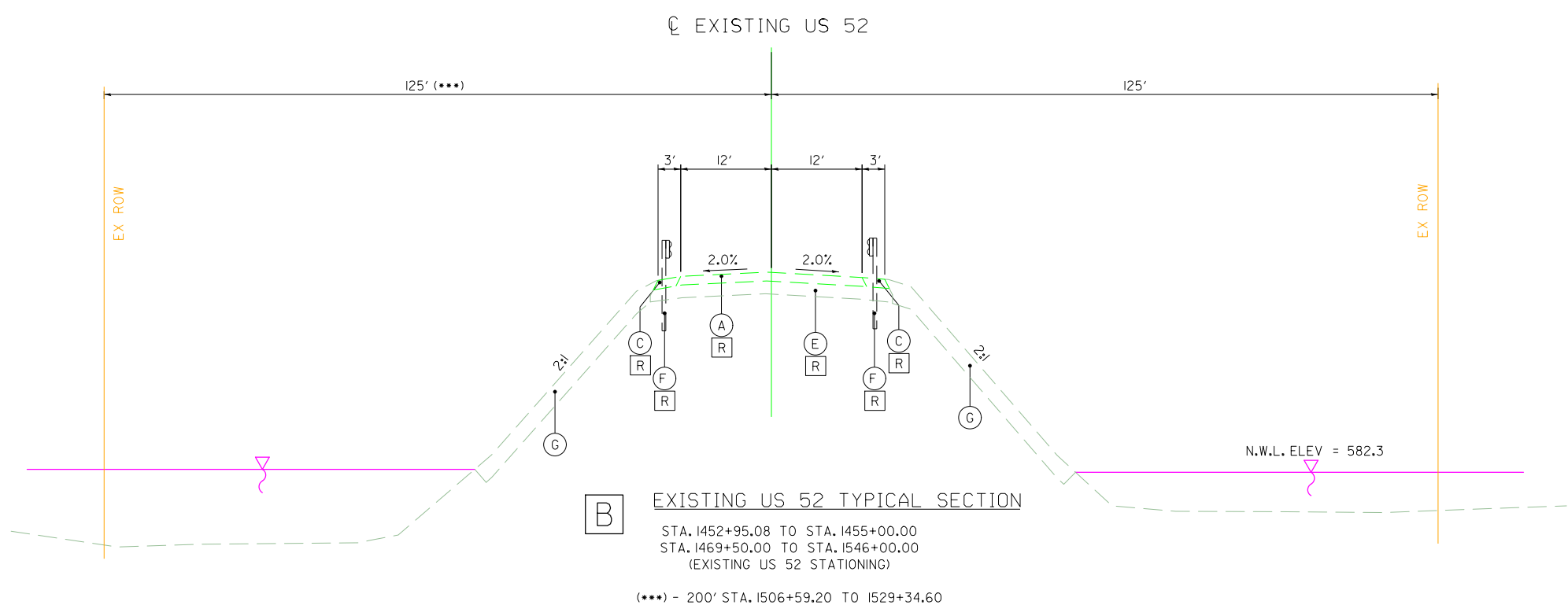
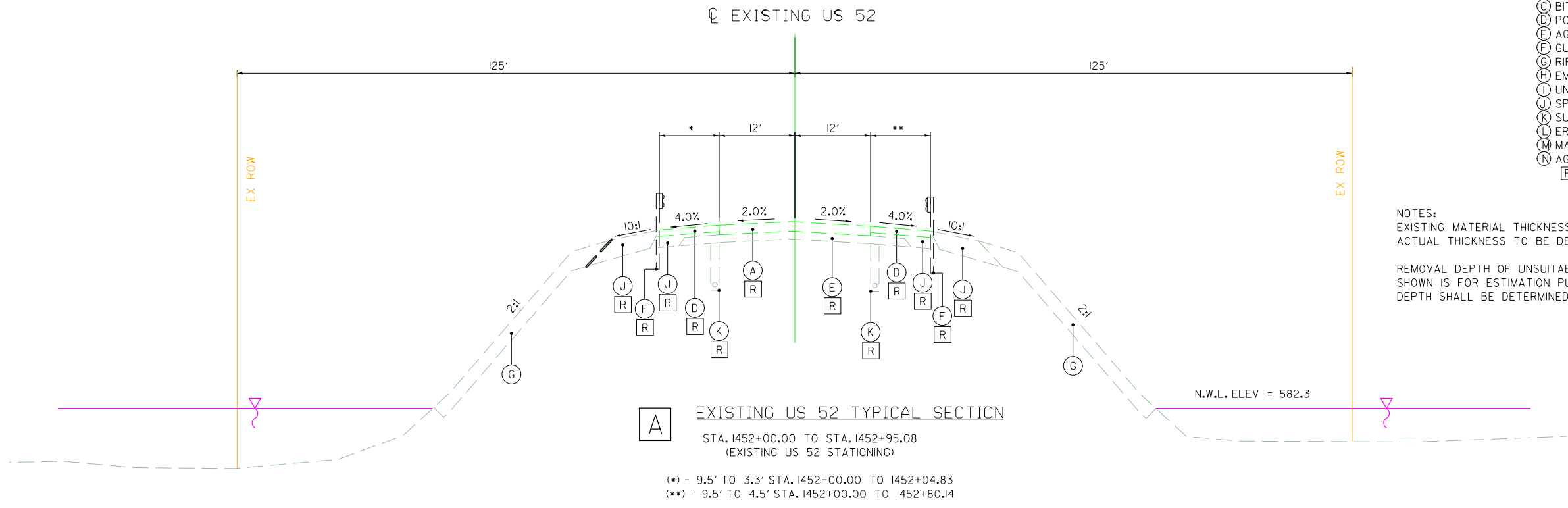


- EXISTING LEGEND
- (A) BITUMINOUS PAVEMENT - 7"
 - (B) BITUMINOUS PAVEMENT - 9.5"
 - (C) BITUMINOUS SHOULDER - 8"
 - (D) PCC SHOULDER - 6"
 - (E) AGGREGATE SUBBASE - 12"
 - (F) GUARDRAIL
 - (G) RIPRAP - DEPTH VARIES
 - (H) EMBANKMENT
 - (J) UNSUITABLE MATERIAL
 - (J) SPECIAL BACKFILL
 - (K) SUBDRAIN
 - (L) EROSION STONE - 1'
 - (M) MACADAM STONE - 1'
 - (N) AGGREGATE SHOULDER - 8"
 - [R] = REMOVAL

NOTES:
EXISTING MATERIAL THICKNESS IS FOR INFORMATION ONLY.
ACTUAL THICKNESS TO BE DETERMINED IN THE FIELD.

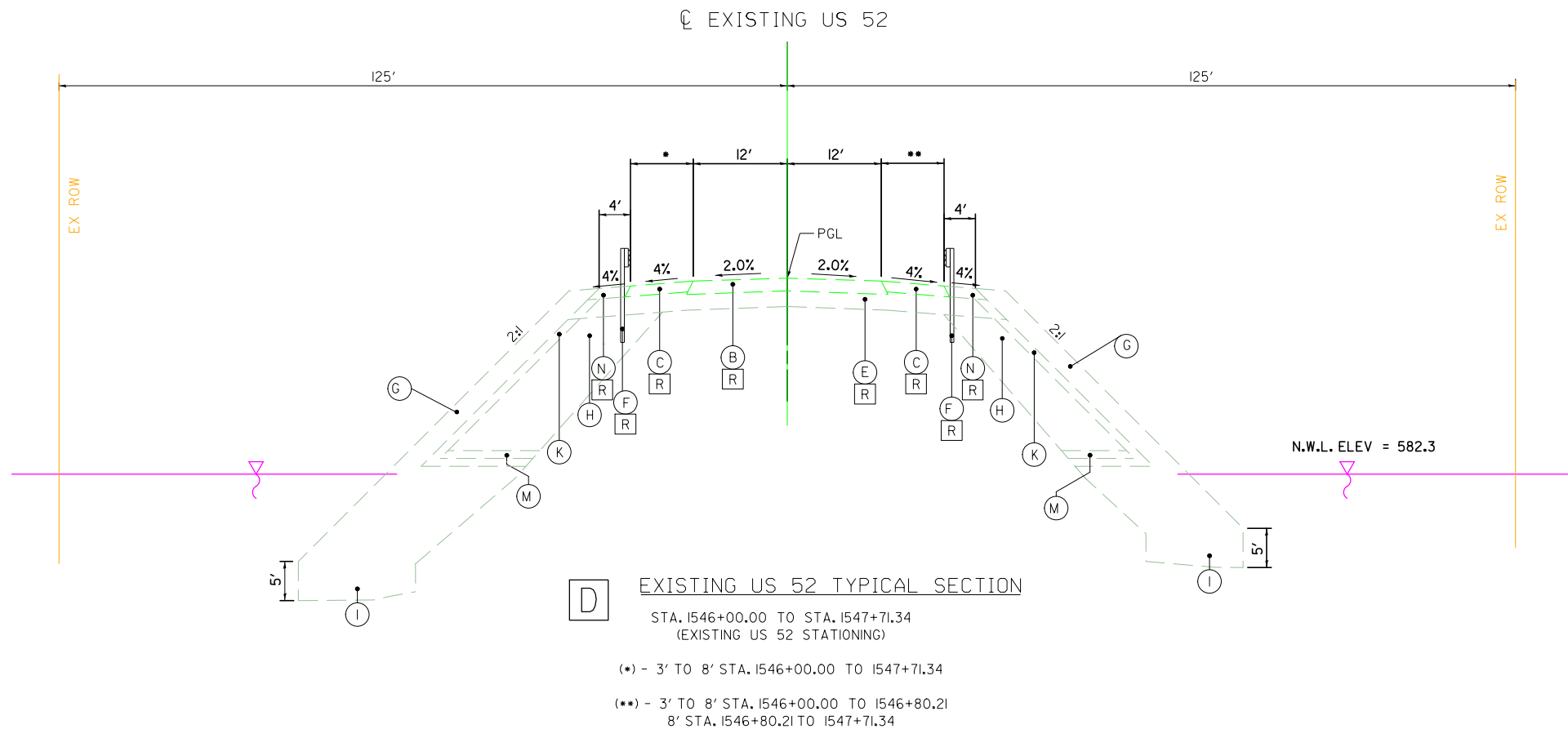
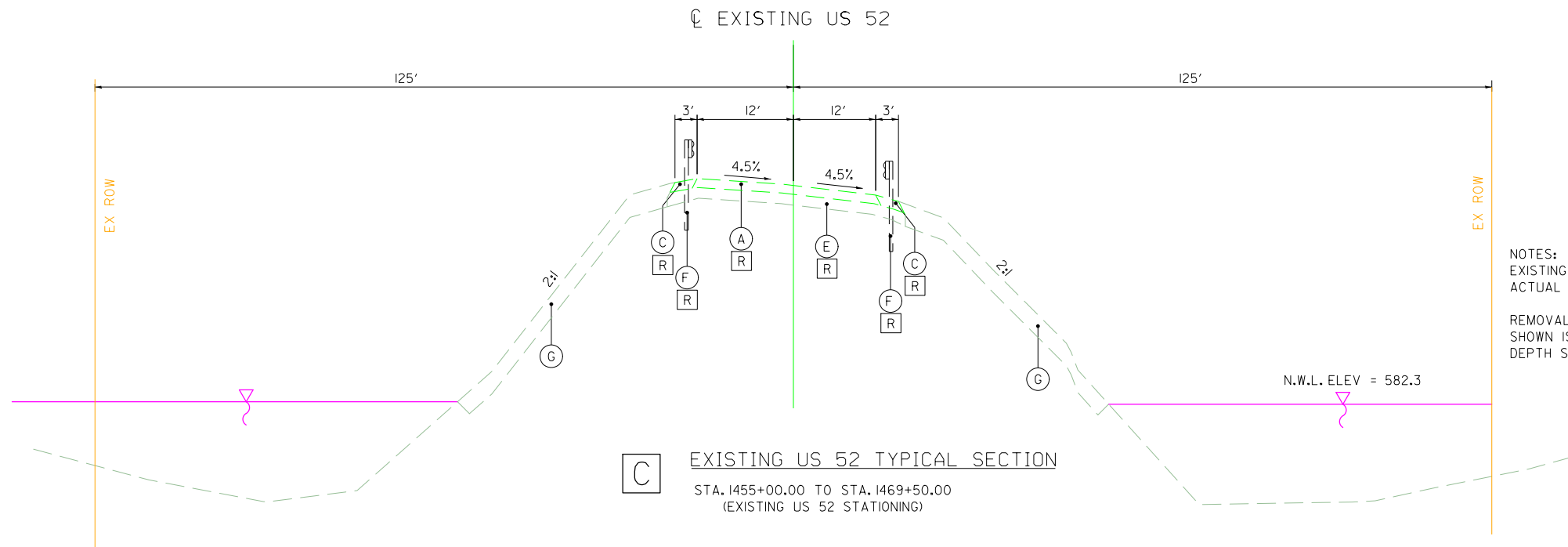
REMOVAL DEPTH OF UNSUITABLE MATERIAL BELOW THE N.W.L.
SHOWN IS FOR ESTIMATION PURPOSES ONLY. THE ACTUAL
DEPTH SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



- 3 BITUMINOUS PAVEMENT - 7"
- 3 BITUMINOUS PAVEMENT - 9.5"
- 2 BITUMINOUS SHOULDER - 8"
- 1 PCC SHOULDER - 6"
- 3 AGGREGATE SUBBASE - 12"
- 2 GUARDRAIL
- 2 RIPRAP - DEPTH VARIES
- 1 EMBANKMENT
- 1 UNSUITABLE MATERIAL
- 1 SPECIAL BACKFILL
- 1 SUBDRAIN
- 1 EROSION STONE - 1'
- 1 MACADAM STONE - 1'
- 3 AGGREGATE SHOULDER - 8"

[R] = REMOVAL

REMOVAL DEPTH OF UNSUITABLE MATERIAL BELOW THE N.W.L.
SHOWN IS FOR ESTIMATION PURPOSES ONLY. THE ACTUAL
DEPTH SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



PAVED SHOULDER AT GUARDRAIL

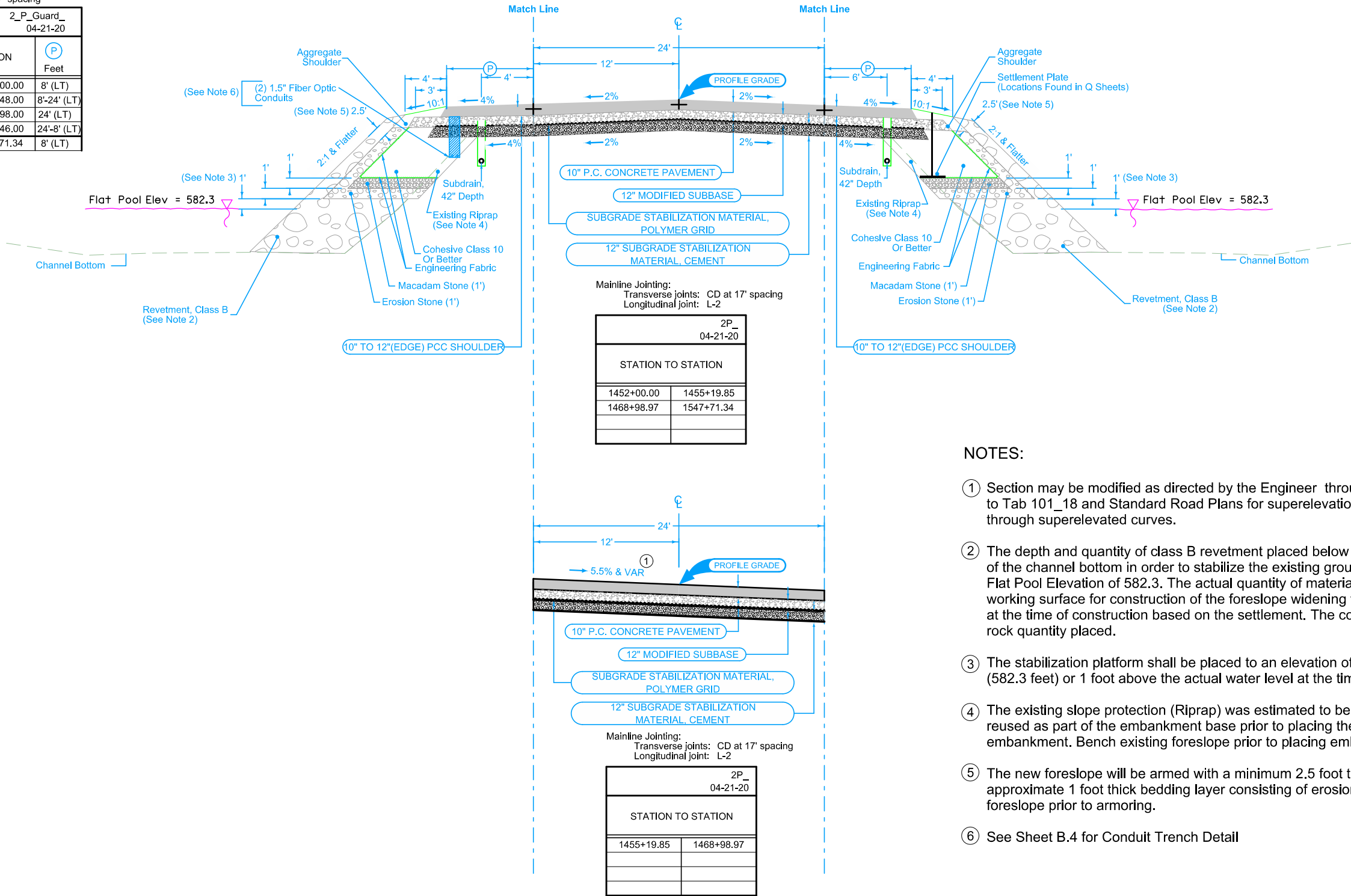
PAVED SHOULDER AT GUARDRAIL

PCC Shoulder Jointing:
Longitudinal joint: L-2, BT-2, BT-3 OR KT-2
Transverse joints: CD at 17' spacing

PCC Shoulder Jointing:
Longitudinal joint: L-2, BT-2, BT-3 OR KT-2
Transverse joints: CD at 17' spacing

2_P_Guard_ 04-21-20		
STATION TO STATION		Feet
1452+00.00	1453+00.00	8' (LT)
1453+00.00	1453+48.00	8'-24' (LT)
1453+48.00	1454+98.00	24' (LT)
1454+98.00	1455+46.00	24'-8' (LT)
1455+46.00	1547+71.34	8' (LT)

2_P_Guard_ 04-21-20		
STATION TO STATION		Feet
1452+00.00	1547+71.34	8'



NOTES:

- Section may be modified as directed by the Engineer through areas of special shaping. Refer to Tab 101_18 and Standard Road Plans for superelevation slopes and additional requirements through superelevated curves.
- The depth and quantity of class B revetment placed below the surface of the water and on top of the channel bottom in order to stabilize the existing ground was estimated based off of the Flat Pool Elevation of 582.3. The actual quantity of material necessary to provide a stable working surface for construction of the foreslope widening will be determined by the Engineer at the time of construction based on the settlement. The contractor will be paid based on actual rock quantity placed.
- The stabilization platform shall be placed to an elevation of 1 foot above the flat pool elevation (582.3 feet) or 1 foot above the actual water level at the time of construction, whichever is higher.
- The existing slope protection (Riprap) was estimated to be 18 inches in thickness and shall be reused as part of the embankment base prior to placing the cohesive class 10 or better embankment. Bench existing foreslope prior to placing embankment.
- The new foreslope will be armed with a minimum 2.5 foot thick layer of class B revetment and approximate 1 foot thick bedding layer consisting of erosion stone shall be placed on the new foreslope prior to armoring.
- See Sheet B.4 for Conduit Trench Detail

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items
Utility Items : Fiber Optic Conduit
Installation/Coordination

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Utility Items	Total	
1	2102-0425071	SPECIAL BACKFILL	CY		350	350	Refer to typicals in B sheets.
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	61,953		61,953	Refer to T Sheets
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	20,643	350	20,993	Refer to T Sheets. Quantity to excavate for Fiber Optic Conduit Trench.
4	2113-0001000	SUBGRADE STABILIZATION MATERIAL,	SY	42,891.3		42,891.3	Cement Material Refer to typicals on B Sheets and Tab 103-03.
5	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	42,891.3		42,891.3	Refer to typicals on B Sheets and Tab 103-03.
6	2115-0100000	MODIFIED SUBBASE	CY	16,424.6		16,424.6	
7	2116-0000300	MINERAL STABILIZING AGENT	TON	17,370.9		17,370.9	Cost of Cement Material needed for Subgrade Stabilization. Refer to Tab 103-03.
8	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	6,927.7		6,927.7	Refer to typicals on B Sheets and Tabulation 112-09.
9	2122-5190010	PAVED SHOULDER, P.C. CONCRETE, 10 IN.	SY	17,368		17,368	Refer to typicals on B Sheets and Tab. 112-09 Paved Shoulder Thickness Tapers 10" to 12" (Outside Edge)
10	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN.	SY	25,523.57		25,523.57	Refer to typicals on B sheets and Tab 100-24. Certified Plant Inspection is required and is incidental to this item.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Utility Items	Total	
11	2304-0101000	TEMPORARY PAVEMENT	SY	8,507.9		8,507.9	Includes temporary HMA pavement at a depth of 7 inches and 6 inches of special backfill for pavement required for staged construction. Method of Measurement: The area of the completed work will be measured in square yards. Measurement will be based on the actual area of the pavement placed as shown in the plans. Refer to Tab. 100-25 and J Sheets for details and locations. Basis of Payment: Payment will be made at the contract unit price per square yard. This payment will be full compensation for furnishing all materials, labor, equipment, and incidentals necessary to complete the work as specified, including but not limited to special backfill, surface preparation, placement, and finishing of the HMA pavement.
12	2401-6750001	REMOVALS, AS PER PLAN	LS		1	1	Includes all work for removal and off-site disposal of existing utility poles on east side of the causeway.
13	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	19,059.6		19,059.6	Refer to Tab 104-9.
14	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	37		37	Refer to Tab 104-09.
15	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	19,143.2		19,143.2	Refer to Tab 110-07A
16	2505-4008300	STEEL BEAM GUARDRAIL	LF	19,143.2		19,143.2	
17	2505-6765006	REMOVE AND REINSTALL FORMED STEEL BEAM GUARDRAIL	LF	19,143.2		19,143.2	The intent of this work is to remove and reinstall for Traffic Control Operations. Refer to J Sheets for locations. Method of Measurement: Measurement will be in linear feet, measured along the front of the rail, of steel beam guardrail (includes W-beam and Thrie-beam guardrail) removed and reinstalled. Basis of Payment: Payment will be at the contract unit price per linear foot of steel beam guardrail removed and reinstalled. Payment includes all labor, equipment, and materials required to remove and reinstall the steel beam guardrail.
18	2507-2638620	MACADAM STONE SLOPE PROTECTION	SY	2,628.4		2,628.4	Refer to T Sheets.
19	2507-3250005	ENGINEERING FABRIC	SY	63,808.9		63,808.9	Refer to typicals in B sheets. Use material specified for embankment erosion control according to Article 4196.01, B, 3. Material will be measured in sq. yds. of actual area covered.
20	2507-6800021	REVETMENT, CLASS B	TON	192,386		192,386	Estimated at 1.6 ton/cu yd. Class B revetment shall meet the requirements of Article 4130. See T Sheets.
21	2507-8029000	EROSION STONE	TON	34,159.3		34,159.3	Refer to T sheets.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Utility Items	Total	
22	2510-6745850	REMOVAL OF PAVEMENT	SY	31,904.5		31,904.5	Refer to Tabs.110-1 and 102-5.
23	2518-0002150	ITS CONDUIT, HDPE, 1.5 INCH PLOWED	LF		18,870	18,870	Refer to B and D Sheets as well as Tab 108_02.
24	2523-0000310	HANDHOLES AND JUNCTION BOXES	EACH		5	5	Refer to B and D sheets for locations.
25	2524-6765210	REMOVAL OF TYPE A SIGN ASSEMBLY	EACH	14		14	Refer to Tabulation 190-62 for location and details. This item for the removal of Type A Sign Assemblies, including the sign panels, sign brackets, supporting structures and hardware. Contractor shall carefully dismantle each sign assembly. Sign posts, brackets and hardware shall become property of the Contractor. Sign panels shall become property of the DOT and shall be delivered to the nearest DOT maintenance facility. All holes resulting from removal of post shall be filled level with the adjacent grade with backfill material conforming to the Standard Specifications. Measurement: The Engineer will count the number of sign assemblies removed. Payment: The Contractor will be paid the contract unit price for each sign assembly removed.
26	2524-9081290	CONCRETE FOOTING FOR BREAKAWAY SIGN POST, 2'-8" DIA. X 9'-0"	EACH	2		2	Refer to Tab 190-50.
27	2524-9210007	REFERENCE LOCATION SIGNS	EACH	14		14	Refer to Tab 190_25.
28	2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	344		344	Refer to Tabulation(s) 190-50 and/or 190-51 for locations and details.
29	2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	EACH	22		22	
30	2524-9281210	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 8 X 21	LF	36.4		36.4	Refer to Tabulation 190-50 for locations and details.
31	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	158.3		158.3	Refer to Tabulation 190-51 and 190-66 for locations and details.
32	2524-9380001	TYPE B SIGNS, EXTRUDED ALUMINUM STRUCTURAL PANEL	SF	110		110	Refer to Tabulation 190-50 for locations and details.
33	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	1,067.92		1,067.92	Includes Traffic Control Temporary Pavement Marking Removal.
34	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	1,916.6		1,916.6	Refer to Tab 108_22.
35	2527-9263212	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	STA	266.98		266.98	
36	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	41,360		41,360	Refer to Sheet J.9 and Tab. 108-33. All temporary barrier rail shall be nominal 12'-6 long concrete units.
37	2528-8445110	TRAFFIC CONTROL	LS	1	1	2	Cost to coordinate with Fiber Optic companies to complete fiber optic cable installation. Refer to Traffic Control Plan on Sheet J.1.
38	2533-4980005	MOBILIZATION	LS	1		1	
39	2602-0000212	FLOATING SILT CURTAIN (HANGING)	LF	19,205		19,205	Refer to Tab 100-10.
40	2602-0000222	FLOATING SILT CURTAIN (CONTAINMENT)	LF	19,205		19,205	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Utility Items	Total	
41	2602-0000230	CLEAN-OUT OF FLOATING SILT CURTAIN (CONTAINMENT)	LF	38,410		38,410	
42	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1		1	

100_01D
8/15/22

PROJECT DESCRIPTION

THIS PROJECT IS FOR THE RECONSTRUCTION OF APPROXIMATELY 2 MILES OF US-52 FROM THE WEST APPROACH OF THE MISSISSIPPI RIVER BRIDGE TO THE NORTH APPROACH OF THE MISSISSIPPI OVERFLOW BRIDGE NORTH OF SABULA IN JACKSON COUNTY. IT WILL INVOLVE THE RECONSTRUCTION OF PAVEMENT, WIDENING OF SHOULDERS AND STABILIZATION OF THE ROADWAY EMBANKMENT.

INDEX OF TABULATIONS				111_25 12/16/25
Line No.	Tabulation	Tabulation Title	Sheet No.	
1.0	100_01D	PROJECT DESCRIPTION	C.5	
2.0	100_10	FLOATING SILT CURTAINS	RC.3	
3.0	100_24	PCC PAVEMENT	C.12	
4.0	100_25	HMA PAVEMENT	C.13	
5.0	101_16	ALIGNMENT COORDINATES	G.4	
6.0	101_18	SUPERELEVATION DATA	G.5	
7.0	102_05	EXISTING PAVEMENT	C.7	
8.0	103_03	PROPOSED SUBGRADE TREATMENT	CS.4	
9.0	103_05	SETTLEMENT PLATES	CS.5	
10.0	103_06	EMBANKMENT WITH MOISTURE CONTROL	CS.2	
11.0	103_07	SHRINKAGE DATA	CS.3	
12.0	104_09A	LONGITUDINAL SUBDRAIN SHOULDER	CS.6	
13.0	105_04	STANDARD ROAD PLANS	C.7	
14.0	108_02	ELECTRICAL DUCTS	C.16	
15.0	108_13A	SAFETY CLOSURES	J.2	
16.0	108_22	PAVEMENT MARKING LINE TYPES	C.15	
17.0	108_25	511 TRAVEL RESTRICTIONS	J.3	
18.0	108_23A	TRAFFIC CONTROL PLAN	J.1	
19.0	108_26A	STAGING NOTES	J.1	
20.0	108_28	TEMPORARY TRAFFIC SIGNALS	C.18	
21.0	108_33	TEMPORARY BARRIER RAIL	C.17	
22.0	110_01	REMOVAL OF PAVEMENT	C.10	
23.0	110_07A	REMOVAL OF STEEL BEAM GUARDRAIL	C.11	
24.0	110_12	POLLUTION PREVENTION PLAN	RC.1-RC.2	
25.0	110_13	DELIVERY AND STOCKPILING	N.8	
26.0	111_01	COORDINATED OPERATIONS	J.1	
27.0	111_25	INDEX OF TABULATIONS	C.6	
28.0	111_26	UTILITIES	C.8	
29.0	112_09	SHOULDERS	C.14	
30.0	190_25	REFERENCE LOCATION SIGNS AND DELINEATORS	N.9	
31.0	190_50	MATERIALS FOR TYPE B SIGNS	N.9	
32.0	190_51	MATERIALS FOR TYPE A SIGNS	N.10	
33.0	190_62	EXISTING SIGNS TO BE REMOVED	N.11	
34.0	190_65	SPECIAL SIGN MOUNTING BRACKETS	N.11	
35.0	190_66	SUMMARY OF TYPE A SIGNS	N.11	
36.0	259_01	SIGNING NOTES	N.12	
37.0	262_05	UTILITIES (POINT 25 PROJECT)	C.8	
38.0	281_01	SECTION 404 PERMIT AND CONDITIONS	RC.4	
39.0	281_03	STORM WATER BEST MANAGEMENT PRACTICES	RC.4	
40.0	282_03	TEMPORARY STREAM CROSSING, CAUSEWAY, OR EQUIPMENT PAD	RC.4	
41.0	300_99	PAVING DELAY HOLDING TIMES	C.19	

105_04 10/21/25 STANDARDS The following Standards apply to construction work on this project.			
Line No.	Number	Date	Title
1.0	BA-200	4/15/2025	Steel Beam Guardrail Components
2.0	BA-401	4/20/2021	Temporary Barrier Rail (Precast Concrete)
3.0	DR-303	10/17/2017	Subdrains (Longitudinal)
4.0	DR-306	10/17/2023	Precast Concrete Headwall for Subdrain Outlets
5.0	EC-202	10/21/2014	Floating Silt Curtain
6.0	EW-101	10/17/2017	Embankment and Rebuilding Embankments
7.0	EW-102	10/20/2015	Allowable Placement of Unsuitable Soil in Embankments
8.0	EW-212	10/20/2015	Settlement Plate
9.0	LI-103	10/21/2025	Conduit and Precast Handholes
10.0	PM-110	10/15/2024	Line Types
11.0	PM-210	10/15/2024	Separation in Two-Lane Roadway
12.0	PV-101	10/21/2025	Joints
13.0	PV-301	4/15/2025	Superelevation Details Two Lane Roadway
14.0	SI-101	4/19/2016	Locations - Type 'A' Signs
15.0	SI-102	4/19/2016	Locations - Type 'B' Signs
16.0	SI-112	4/19/2016	Footings For Steel Breakaway Posts
17.0	SI-113	10/15/2019	Support Structures - Steel Breakaway Posts
18.0	SI-121	10/16/2018	Fabrication - Sign Legend Components
19.0	SI-123	10/20/2020	Fabrication - Type 'B' Signs
20.0	SI-131	10/18/2016	Installation - Type 'A' Signs
21.0	SI-132	4/17/2018	Installation - Type 'B' Signs
22.0	SI-133	10/17/2017	Installation - Type 'A' Sign Shim
23.0	SI-171	4/18/2017	Reference Location Sign Posts
24.0	TC-1	10/15/2019	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
25.0	TC-81	4/18/2023	Restricted Width Signing (Less Than 14.5 Feet)
26.0	TC-202	4/18/2023	Work Within 15 ft of Traveled Way
27.0	TC-213	4/18/2023	Lane Closure with Flaggers
28.0	TC-233	10/17/2017	Pavement Marking Operations Two-Lane
29.0	TC-252	10/21/2025	Routes Closed to Traffic
30.0	TC-482	4/19/2022	Uneven Lanes

UTILITIES					111_26 4/15/25
Line No.	Company	Contact	Phone	Email	
1.0	Jo-Carroll Energy				
2.0	Windstream Communications				
3.0	Mediacom				

UTILITIES (POINT 25 PROJECT)

This is a POINT 25 project and is subject to the provisions of IAC 761-115.25.

262_05
9/28/22

EXISTING PAVEMENT																					102_05 9/29/23
Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
1.0	Jackson	U.S. 52	Both			2018	Resurfacing	STPN-052-1(116)--2J-49	HMA	2.0											
2.0	Jackson	U.S. 52	Both			1968		FN-64-9(I)--21-49	HMA	7.0			Aggregate	12.0							

REMOVAL OF PAVEMENT Refer to Tabulation 102-5.							110_01 4/5/24
* Not a bid item.							
Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	1452+00.00	1547+71.34	Both	HMA	31904.5	60.0	Mainline and Shoudlers

110 07A

8/15/22

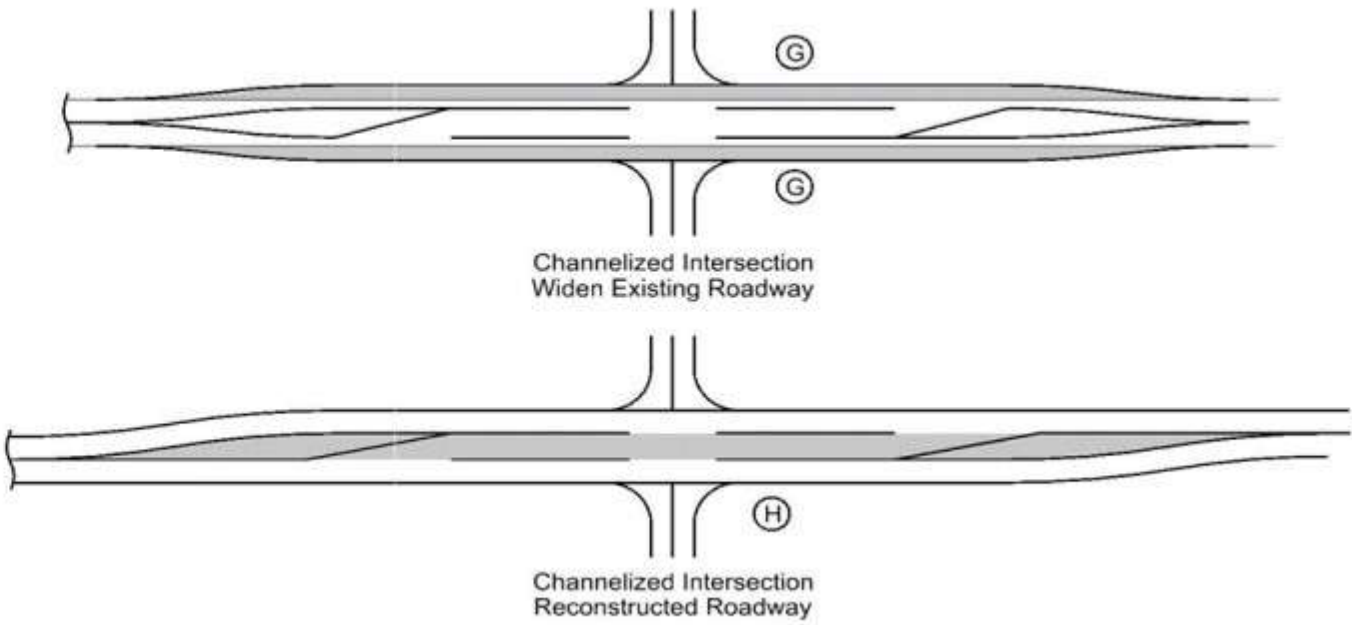
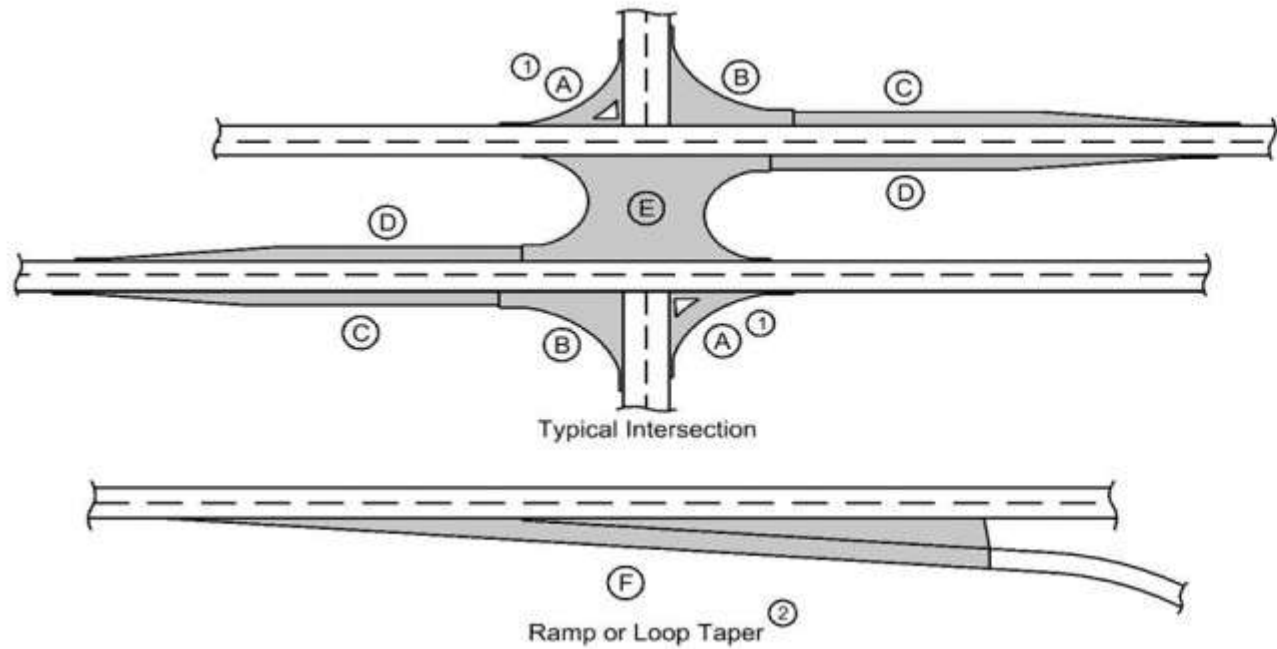
REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent.

(2) Includes length of End Terminals and End Anchors.

Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1.0	1	EB	1452+00.00	1547+71.34	Right	9563.1
2.0	2	WB	1452+00.00	1547+71.34	Right	9580.1

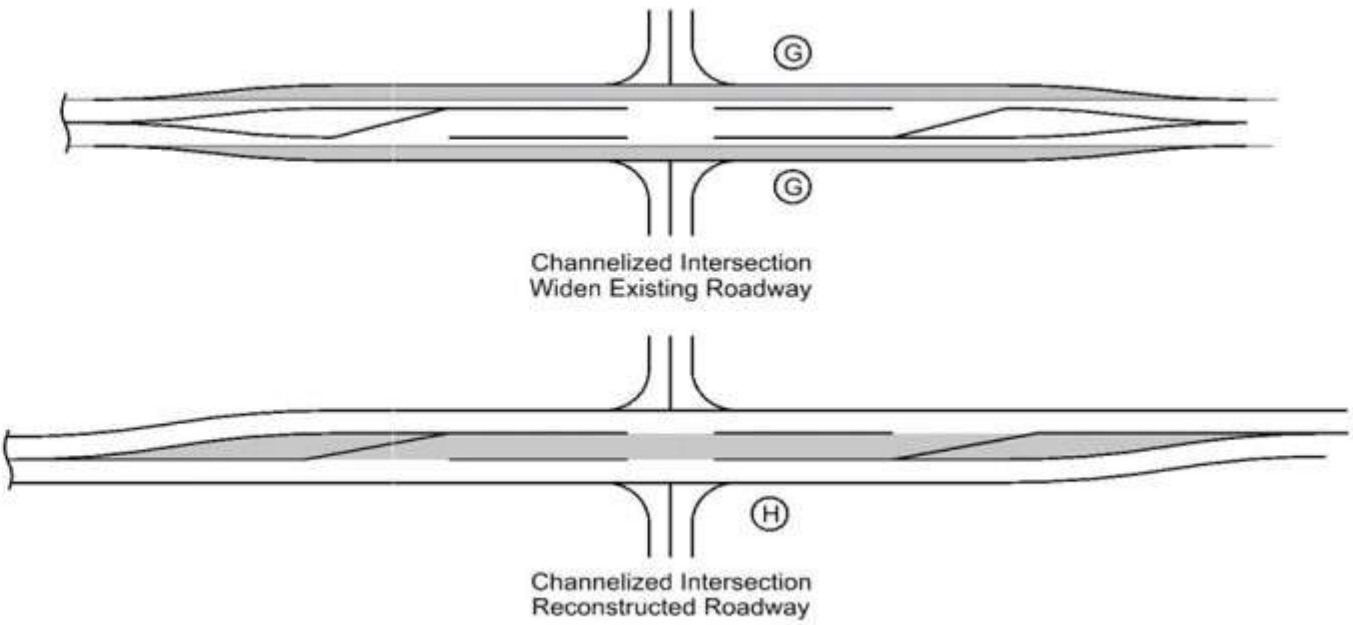
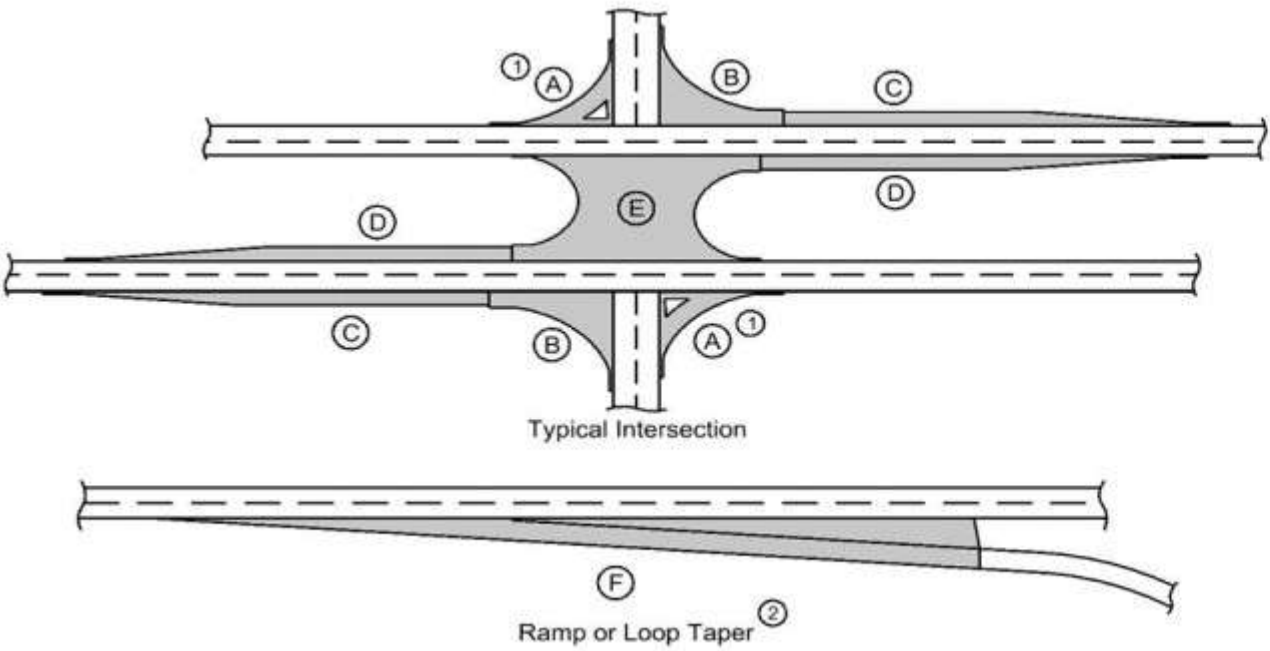
PCC PAVEMENT



(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
1.0	U.S. 52	Both	1452+00.00	1547+71.34	24.0	9571.34	25523.57									10.0	25523.6	42891.30		16424.60		14297.1 CY - Subgrade Stabilization, Cement

HMA PAVEMENT



- (1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E(2) (SY)(3)	HMA Pavement Surface (TONS)	HMA Pavement Surface (SY)	HMA Pavement Intermediate (TONS)	HMA Pavement Intermediate (SY)	HMA Pavement Base (TONS)	HMA Pavement Base (SY)	Binder Surface (TONS)	Binder Intermediate (TONS)	Binder Base (TONS)	Polymer Grid (SY)	Special Backfill (TONS)	Modified Subbase (CY)	Granular Subbase (SY)	Pavement Scarification (SY)	Hot In-Place Recycling (SY)	Asphalt Rejuvenating Agent 0.175 GAL/SY/IN	Remarks
1.0	US-52	EB	1452+00.00	1547+71.34	8.0	9571.34	8507.90						741.783	8507.90	957.139	8507.90	1914.277	8507.90	44.507	57.428	114.857		2679.975						

For Bid Item "2304-0101000 TEMPORARY PAVEMENT" which includes 7" HMA over 6" Special Backfill at 140 lbs/cf

112_09
10/15/24

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY)(3)(4)	HMA (TON)	HMA (TON/ STA)	Binder (TONS)	Paved Shoulder (3) (SY)	Paved Shoulder at Grndrail (5)(7)(SY)	Reinforced Paved Shoulder (3) (SY)	Special Backfill HMA Alt. (3) (TON)	Special Backfill HMA Alt. (TON/STA)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Const. Alt (3) (STA)	Shoulder Const. Alt HMA (6) (CY)	Shoulder Const. Alt PCC (6) (CY)	Remarks
U.S. 52	EB	1452+00.0	1547+71.3	Right	8	8		9571.34					8507.9	8507.9						8507.90		3463.868	36.190	95.71			
U.S. 52	WB	1452+00.0	1453+00.0	Right	8	8		100.00					88.9	88.9						88.90		36.190	36.190	1.00			
Scenic Pullout	WB	1453+00.0	1455+46.0	Right	24	24		246.00					570.9	570.9						570.90		89.027	36.190	2.46			
U.S. 52	WB	1455+46.0	1547+71.3	Right	8	8		9225.34					8200.3	8200.3						8200.30		3338.651	36.190	92.25			

See Sheet B.3 For More Details:
Paved Shoulder Thickness Tapers 10" to 12" (EDGE)
Modified Subbase Thickness 12"
Subgrade Stabilization, Cement Thickness 12"

Line factors based on 6-inch wide continuous line.

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.

***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
CBW6: Crosswalk Bar (White) @ 10.00
CLW6: Crosswalk Line (White) @ 2.00
DLW4: Dotted Line (White) @ 0.22
ELW6: Edge Line Right (White) @ 1.00
MNY6: Median Nose (Yellow) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
SPW4: Sloped Curb 4" (White) @ 2.16
STY6: Standard Curb 6" (Yellow) @ 2.03

BCY6: Broken Centerline (Yellow) @ 0.25
CHW8: Channelizing Line (White) @ 1.33
DCY4: Double Centerline (Yellow) @ 1.34
DLW6: Dotted Line (White) @ 0.33
ELY4: Edge Line Left (Yellow) @ 0.67
NPY4: No Passing Zone Line (Yellow) @ 0.84
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SPW6: Sloped Curb 6" (White) @ 2.28
YLW2: Yield Line (White) @ 1.15

BLC6: Broken Line Contrast (White/Black) @ 0.50
CHW10: Channelizing Line (White) @ 1.67
DCY6: Double Centerline (Yellow) @ 2.00
DLY4: Dotted Line (Yellow) @ 0.22
ELY6: Edge Line Left (Yellow) @ 1.00
NPY6: No Passing Zone Line (Yellow) @ 1.25
SLW2: Stop Line (White) @ 4.00
SPY4: Sloped Curb 4" (Yellow) @ 2.16

BLW4: Broken Lane Line (White) @ 0.17
CHY8: Channelizing Line (Yellow) @ 1.33
DDY4: Double Dotted Line (Yellow) @ 0.44
DLY6: Dotted Line (Yellow) @ 0.33
LDW8: Lane Drop (White) @ 0.33
RLW4: Ramp Edge Line Right (White) @ 0.67
SLW4: Solid Lane Line (White) @ 0.67
SPY6: Sloped Curb 6" (Yellow) @ 2.28

BLW6: Broken Lane Line (White) @ 0.25
CHY10: Channelizing Line (Yellow) @ 1.67
DDY6: Double Dotted Line (Yellow) @ 0.67
ELW4: Edge Line Right (White) @ 0.67
LDW10: Lane Drop (White) @ 0.42
RLW6: Ramp Edge Line Right (White) @ 1.00
SLW6: Solid Lane Line (White) @ 1.00
STW6: Standard Curb 6" (Yellow) @ 2.03

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	BCY6 (STA)	BCY6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	ELY4 Factored (STA)	ELY6 (STA)	ELY6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	Remarks
1.0	U.S. 52	1452+00.00	1547+71.34	Both	Highbuild Waterborne Paint			X	No					191.42	191.42								
3.0	U.S. 52	1452+00.00	1467+58.57	EB	Highbuild Waterborne Paint	X			No			15.59	31.18										
4.0	U.S. 52	1467+58.57	1479+90.00	EB	Highbuild Waterborne Paint	X			No										12.31	15.39			
5.0	U.S. 52	1479+90.00	1539+20.00	EB	Highbuild Waterborne Paint	X			No	59.30	14.82												
6.0	U.S. 52	1539+20.00	1543+00.00	EB	Highbuild Waterborne Paint	X			No										3.80	4.75			
7.0	U.S. 52	1543+00.00	1547+71.34	EB	Highbuild Waterborne Paint	X			No			4.71	9.42										
8.0	U.S. 52	1452+00.00	1547+71.34	All	Waterborne/Solvent Paint	X	X	X	No					191.42	191.42		191.42	191.42			0.12	0.48	MOT - Phase 1 as needed
9.0	U.S. 52	1452+00.00	1547+71.34	All	Waterborne/Solvent Paint	X	X	X	No					191.42	191.42		191.42	191.42			0.12	0.48	MOT - Phase 2 as needed
10.0	U.S. 52	1452+00.00	1547+71.34	All	Waterborne/Solvent Paint	X	X	X	No					191.42	191.42		191.42	191.42			0.12	0.48	MOT - Phase 3 as needed
11.0	U.S. 52	1452+00.00	1547+71.34	All	Waterborne/Solvent Paint	X	X	X	No					191.42	191.42		191.42	191.42			0.12	0.48	MOT - Phase 4 as needed
12.0	U.S. 52	1452+00.00	1547+71.34	All	Waterborne/Solvent Paint	X	X	X	No			95.71	191.42	191.42	191.42						0.12	0.48	MOT - Winter Shutdown as needed

Pavement Marking Removal: 1067.92 STA. This includes removal of any pavement markings needed to complete traffic staging and switches.

ELECTRICAL DUCTS					
Line No.	Location	Conduit Type	Diameter (IN)	Length (FT)	Remarks
1.0	U.S. 52	HDPE	1.5	9434.0	FO Duct #1
2.0	U.S. 52	HDPE	1.5	9434.0	FO Duct #2

108_02
10/24/24

108_33 8/15/22 TEMPORARY BARRIER RAIL Possible Standard: BA-401 Possible Detail: 560-7 * Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.						
Line No.	No.	Length (FT)	Barrier Rail Type	Anchored*	Modular Glare Screen System	Remarks
1.0	MOT-Phase 1A	5170.0	Concrete BA-401	No	No	
2.0	MOT-Phase 1B	5170.0	Concrete BA-401	No	No	Barrier relocated from Phase 1A
3.0	MOT-Phase 2A	5170.0	Concrete BA-401	No	No	Barrier relocated from Phase 1B
4.0	MOT-Phase 2B	5170.0	Concrete BA-401	No	No	Barrier relocated from Phase 2A
5.0	MOT-Phase 3A	5170.0	Concrete BA-401	Yes	No	Barrier installed after Winter Stage
6.0	MOT-Phase 3B	5170.0	Concrete BA-401	Yes	No	Barrier relocated from Phase 3A
7.0	MOT-Phase 4A	5170.0	Concrete BA-401	No	No	Barrier relocated from Phase 3B
8.0	MOT-Phase 4B	5170.0	Concrete BA-401	No	No	Barrier relocated from Phase 4A

See Sheet J.9 for Layout Details

TEMPORARY TRAFFIC SIGNALS				
Line No.	Item No.	Station	Signal Type	Remarks
1.0	WB		One Lane Traffic	
2.0	EB		One Lane Traffic	

Note: (2) Temporary Traffic Signal Setups will be required for each Traffic Control Stage.

PAVING DELAY HOLDING TIMES General Tabulation SubTitle							300_99 Modified
Line No.	Road Identification	Dir. of Traffic	Begin Station	End Station	Time Delay (Months)	Remarks	
1.0	US-52	EB/WB	1452+00.00	1547+71.34	3	See Notes below	

NOTES:

-Paving operations cannot begin until 90% settlement is achieved.

-It is estimated that it will take at least three months to complete 90% of the total estimated settlement of 5.0 to 6.0 inches. This includes both the settlement caused by the loading of the existing Causeway subgrade as well as the settlement of the revetment in the bottom of the river at the toe of slope.

-Engineer to confirm when paving operations may begin.

-Any effects of the settlement to the embankment or side slopes shall be addressed/fixed prior to paving.

					GEOTECHNICAL DESIGN I hereby certify that this plan was prepared under my supervision and that engineering decisions with regard to the design were made by me or by other duly licensed Professional Engineers under the laws of the State of Iowa. Signature Date Mohammed Kothawala Printed or Typed Name My license renewal date is Pages or sheets covered by this seal: CS.1 THRU CS.6 / Q.1 THRU Q.8			
FILE NO.	ENGLISH	DESIGN TEAM	Parsons	JACKSON COUNTY	PROJECT NUMBER	STPN-052-1(113)-SJ-49	SHEET NUMBER	CS.1
1/26/2026 11:44:55 AM		tyler.kiefer@parsons.com						

103_06
8/15/22

EMBANKMENT WITH MOISTURE CONTROL

Moisture Control is required for all Class 10 fill placed in all locations and depths. Stability berms placed outside the normal foreslope template and topsoil will not require Moisture Control.

103_07
8/15/22

SHRINKAGE DATA

Material	%	Remarks
Class 10	30.0	Shrinkage
Revetment	30.0	Loss

103_03
8/15/22

PROPOSED SUBGRADE TREATMENT

For Additional Details see Soils Survey CS Sheets.

Line No.	Station From	Station To	Side	Type	Width (FT)	Depth (FT)	Area (SF)	Material Type	Shrink %	Quantity (CY)	Quantity (TON)	Polymer Grid (SY)	Available Quantity (CY)	Available Location or Station to Station	Remarks
1.0	1452+00.00	1547+71.34	Both	Standard	46.0	1.0	443465.10	MODIFIED SUBBASE (SEE ART. 4132)		16424.6	31042.600				
2.0	1452+00.00	1547+71.34	Both	Standard	40.0	1.0	386021.60	SELECT CLAY		14297.1	17370.900	42891.3			Subgrade Stabilization, Cement

Note: Quantities include Scenic Pullout.

103_05
1/14/25

SETTLEMENT PLATES
Refer to Standard Road Plan EW-212

Line No.	No.	Station	Side	Offset	Remarks
1.0	SP1	1454+00.00	Left	36.0	
2.0	SP2	1464+00.00	Right	20.0	
3.0	SP3	1474+00.00	Left	20.0	
4.0	SP4	1484+00.00	Right	20.0	
5.0	SP5	1494+00.00	Left	20.0	
6.0	SP6	1504+00.00	Right	20.0	
7.0	SP7	1514+00.00	Left	20.0	
8.0	SP8	1524+00.00	Right	20.0	
9.0	SP9	1534+00.00	Left	20.0	
10.0	SP10	1544+00.00	Right	20.0	

- Notes:
- 1) See Q Sheets and Sheet B.3 for Settlement Plate Locations. Locations can be slightly adjusted in field to avoid conflicts and fit field conditions as directed/approved by the Engineer.
 - 2) Paving operations can not begin until 90% settlement is achieved.
 - 3) It is estimated that it will take at least two to three months to complete 90% of the total estimated settlement of 5.0 to 6.0 inches. This includes both the settlement caused by the loading of the existing Causeway subgrade as well as the settlement of the revetment in the bottom of the river at the toe of slope.
 - 4) Engineer to confirm when paving operations may begin.
 - 5) Any effects of the settlement to the embankment or side slopes shall be addressed/fixed prior to paving.

LONGITUDINAL SUBDRAIN SHOULDER											104_09A 5/6/24
* Not a bid item.											
Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	U.S. 52	1452+00.00	1457+00.00	Right	42.0	4.0	530.0	1452+00.00	DR-306	49.1	
2.0	U.S. 52	1457+00.00	1462+00.00	Right	42.0	4.0	530.0	1457+00.00	DR-306	49.1	
3.0	U.S. 52	1462+00.00	1467+00.00	Right	42.0	4.0	530.0	1462+00.00	DR-306	49.1	
4.0	U.S. 52	1467+00.00	1472+00.00	Right	42.0	4.0	530.0	1467+00.00	DR-306	49.1	
5.0	U.S. 52	1472+00.00	1477+00.00	Right	42.0	4.0	530.0	1472+00.00	DR-306	49.1	
6.0	U.S. 52	1477+00.00	1482+00.00	Right	42.0	4.0	530.0	1477+00.00	DR-306	49.1	
7.0	U.S. 52	1482+00.00	1487+00.00	Right	42.0	4.0	530.0	1482+00.00	DR-306	49.1	
8.0	U.S. 52	1487+00.00	1492+00.00	Right	42.0	4.0	530.0	1487+00.00	DR-306	49.1	
9.0	U.S. 52	1492+00.00	1497+00.00	Right	42.0	4.0	530.0	1492+00.00	DR-306	49.1	
10.0	U.S. 52	1497+00.00	1502+00.00	Right	42.0	4.0	530.0	1497+00.00	DR-306	49.1	
11.0	U.S. 52	1502+00.00	1507+00.00	Right	42.0	4.0	530.0	1502+00.00	DR-306	49.1	
12.0	U.S. 52	1507+00.00	1512+00.00	Right	42.0	4.0	530.0	1507+00.00	DR-306	49.1	
13.0	U.S. 52	1512+00.00	1517+00.00	Right	42.0	4.0	530.0	1512+00.00	DR-306	49.1	
14.0	U.S. 52	1517+00.00	1522+00.00	Right	42.0	4.0	530.0	1517+00.00	DR-306	49.1	
15.0	U.S. 52	1522+00.00	1527+00.00	Right	42.0	4.0	530.0	1522+00.00	DR-306	49.1	
16.0	U.S. 52	1527+00.00	1532+00.00	Right	42.0	4.0	530.0	1527+00.00	DR-306	49.1	
17.0	U.S. 52	1532+00.00	1537+00.00	Right	42.0	4.0	530.0	1532+00.00	DR-306	49.1	
18.0	U.S. 52	1537+00.00	1542+00.00	Right	42.0	4.0	530.0	1537+00.00	DR-306	49.1	
19.0	U.S. 52	1542+00.00	1547+00.00	Right	42.0	4.0	530.0	1542+00.00	DR-306	49.1	
20.0	U.S. 52	1547+00.00	1547+64.84	Right	42.0	4.0	94.8	1547+00.00	DR-306	8.8	
21.0	U.S. 52	1452+00.00	1456+20.00	Left	42.0	4.0	450.0	1452+00.00	DR-306	41.7	Gap subdrain per Section 3D-1
22.0	U.S. 52	1468+00.00	1473+00.00	Left	42.0	4.0	530.0	1468+00.00	DR-306	49.1	Gap subdrain per Section 3D-1
23.0	U.S. 52	1473+00.00	1478+00.00	Left	42.0	4.0	530.0	1473+00.00	DR-306	49.1	
24.0	U.S. 52	1478+00.00	1483+00.00	Left	42.0	4.0	530.0	1478+00.00	DR-306	49.1	
25.0	U.S. 52	1483+00.00	1488+00.00	Left	42.0	4.0	530.0	1483+00.00	DR-306	49.1	
26.0	U.S. 52	1488+00.00	1493+00.00	Left	42.0	4.0	530.0	1488+00.00	DR-306	49.1	
27.0	U.S. 52	1493+00.00	1498+00.00	Left	42.0	4.0	530.0	1493+00.00	DR-306	49.1	
28.0	U.S. 52	1498+00.00	1503+00.00	Left	42.0	4.0	530.0	1498+00.00	DR-306	49.1	
29.0	U.S. 52	1503+00.00	1508+00.00	Left	42.0	4.0	530.0	1503+00.00	DR-306	49.1	
30.0	U.S. 52	1508+00.00	1513+00.00	Left	42.0	4.0	530.0	1508+00.00	DR-306	49.1	
31.0	U.S. 52	1513+00.00	1518+00.00	Left	42.0	4.0	530.0	1513+00.00	DR-306	49.1	
32.0	U.S. 52	1518+00.00	1523+00.00	Left	42.0	4.0	530.0	1518+00.00	DR-306	49.1	
33.0	U.S. 52	1523+00.00	1528+00.00	Left	42.0	4.0	530.0	1523+00.00	DR-306	49.1	
34.0	U.S. 52	1528+00.00	1533+00.00	Left	42.0	4.0	530.0	1528+00.00	DR-306	49.1	
35.0	U.S. 52	1533+00.00	1538+00.00	Left	42.0	4.0	530.0	1533+00.00	DR-306	49.1	
36.0	U.S. 52	1538+00.00	1543+00.00	Left	42.0	4.0	530.0	1538+00.00	DR-306	49.1	
37.0	U.S. 52	1543+00.00	1547+64.84	Left	42.0	4.0	494.8	1543+00.00	DR-306	45.8	

Total number of DR-306 outlets = 37
Note: Subdrains may be adjusted both vertically and horizontally in the field as necessary.

SURVEY SYMBOLS

-  PPA Power Pole Co. 1
-  ENT Centerline BL of Entrance
-  EW Edge of Water
-  D Centerline Draw or Stream (Down)
-  BNK Stream Bank
-  GDL Guard Rail Steel
-  SNP Unpaved Shoulder
-  ENU Edge Unpaved Entrance & Parking
-  DU Centerline Draw or Stream (Up)
-  TLNL Tree Line Left
-  TLNR Tree Line Right
-  FO1D Fiber Optic Co. 1 - Quality D
-  TL1D Telephone Line Co. 1 - Quality D
-  WL1D Water Line Co. 1 - Quality D
-  TL2D Telephone Line Co. 2 - Quality D
-  FO2D Fiber Optic Co. 2 - Quality D
-  FO3D Fiber Optic Co. 3 - Quality D
-  TR Telephone Riser Pole
-  TDC Tree Deciduous
-  EG Edge of Gravel Road
-  FW Wire Fence
-  TEV Evergeen Tree
-  MH Utility Access (Manhole)
-  RET Retaining Walls
-  BL Topo Breakline
-  PR Electric Riser Pole
-  DIK Centerline of Dike or Dam
-  OUT Tile Outlet
-  TIL Tile Line
-  SI Sign
-  MM Mile Marker Post
-  WV Water Valve
-  WHD Water Hydrant
-  LP L.P. Tank
-  TPD Telephone Pedestal

UTILITY LEGEND

-  - G - GL1D, Jo-Carroll Energy
-  - F0 - F01B, Windstream Communicatiions
-  -F02- F02B, MediaCom

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities
SHADING		Design Color No.	Transparency
Pink, Dark	(13)		Temporary Pavement Shading
Yellow	(4)		Proposed Pavement Shading
Orange	(6)		Proposed Granular Shading
Orange	(70)		Proposed Shoulder Granular Shading
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading
Brown, Light	(236)		Grading Shading
Orange, Light	(134)		Proposed Granular Entrance Shading
Yellow	(220)		Proposed Paved Entrance Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading
Red	(3)		Proposed Structure Shading
Red	(3)		Delineates Restricted Areas
			0%

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(10)		Existing Ground Line Profile
Blue	(1)		Proposed Profile and Annotation
Magenta	(5)		Existing Utilities
Blue, Light	(230)		Proposed Ditch Grades, Left
Black	(0)		Proposed Ditch Grades, Median
Rust	(14)		Proposed Ditch Grades, Right

-  Reference Point

 Station

 Survey Line
-  Section Corner

 Ground Line Intercept

 Saw Cut
-  Guardrail

 Trench Drain

 HighTension Cable Guardrail
-  Sheet Pile

 Pavement Removal

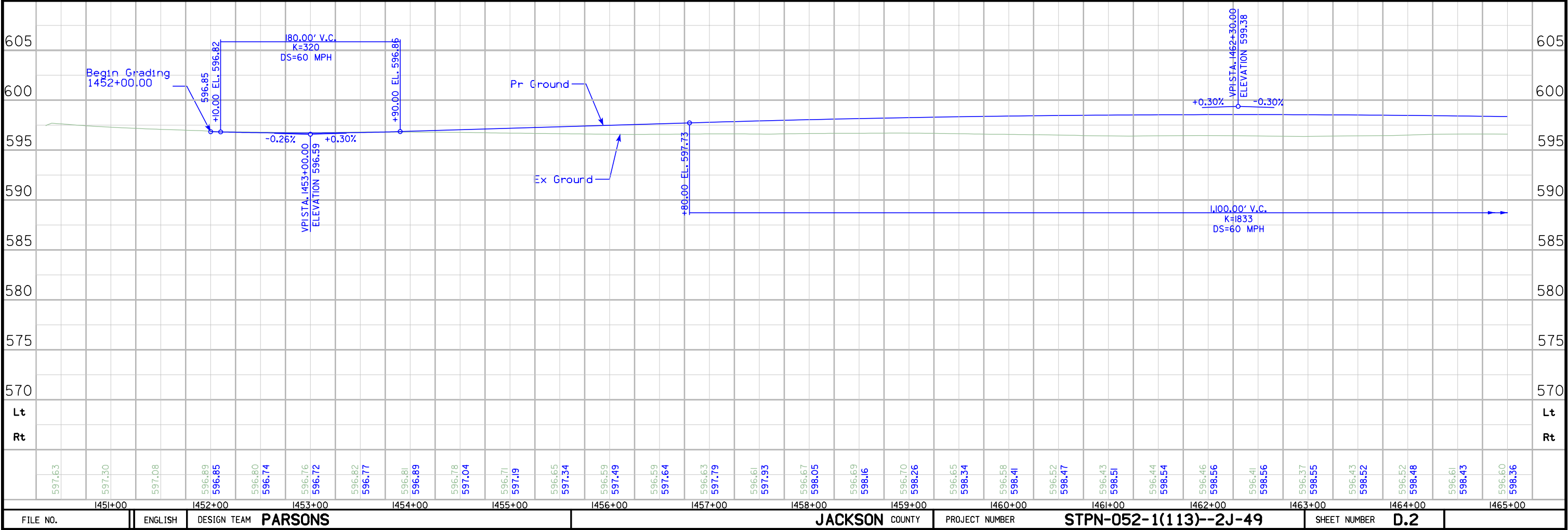
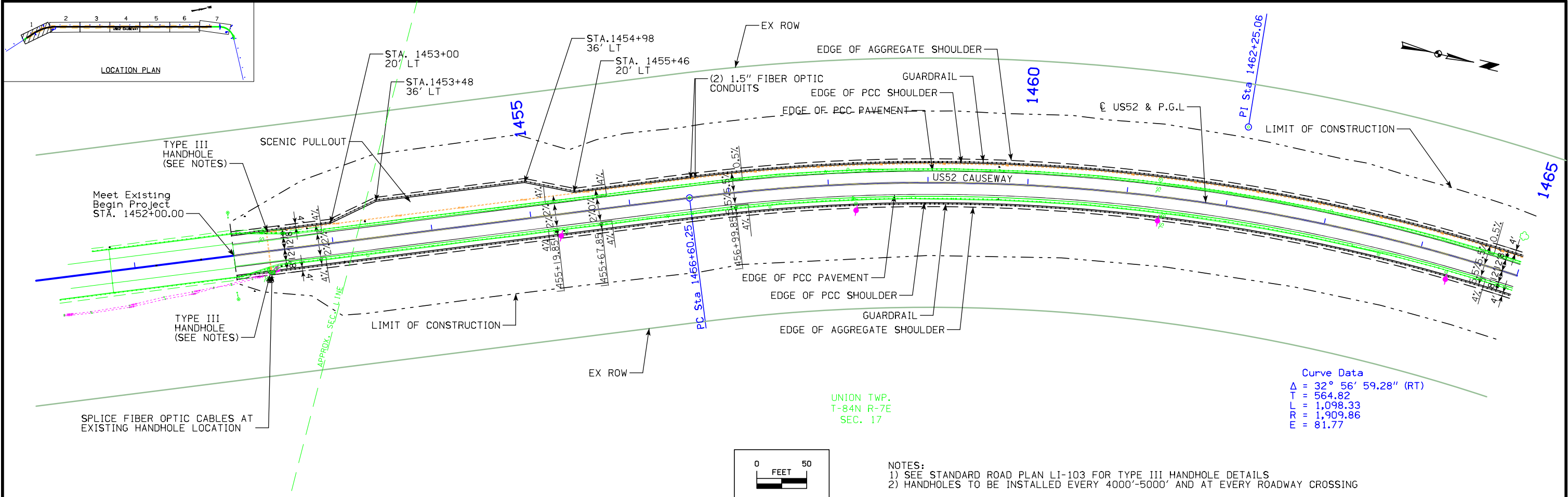
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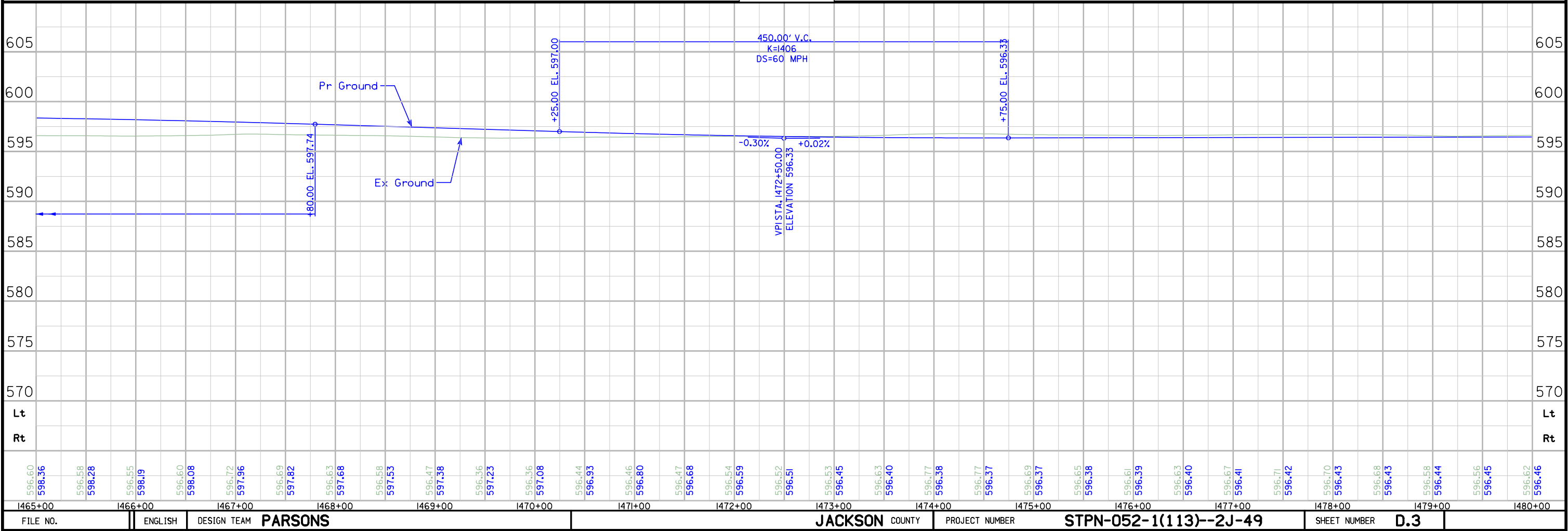
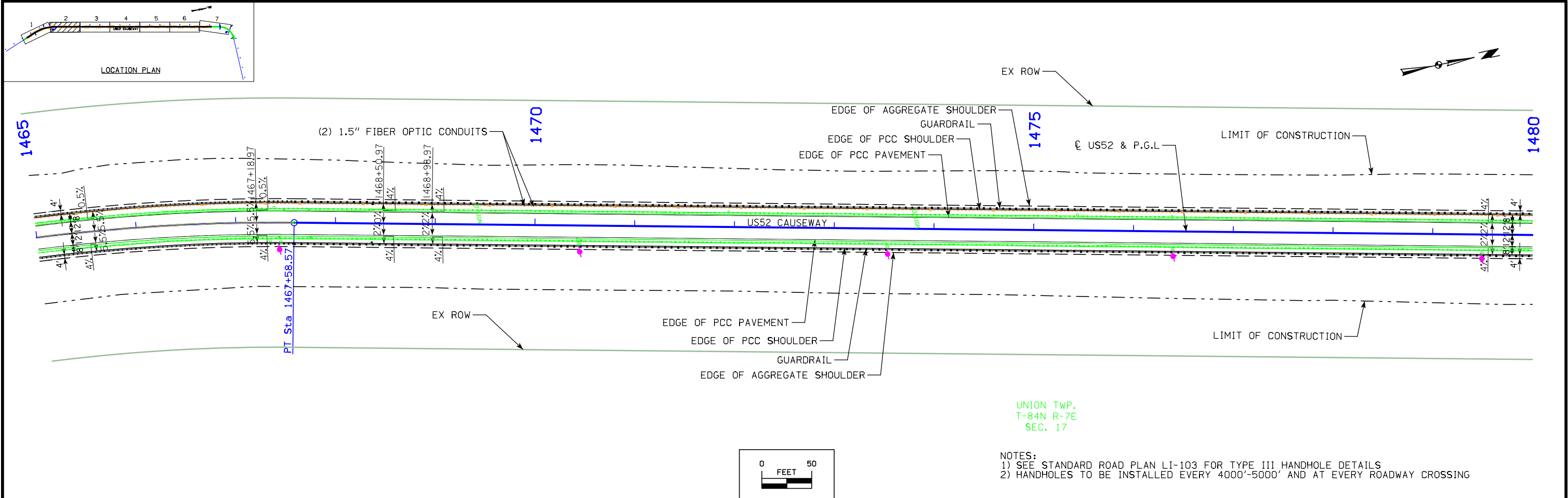
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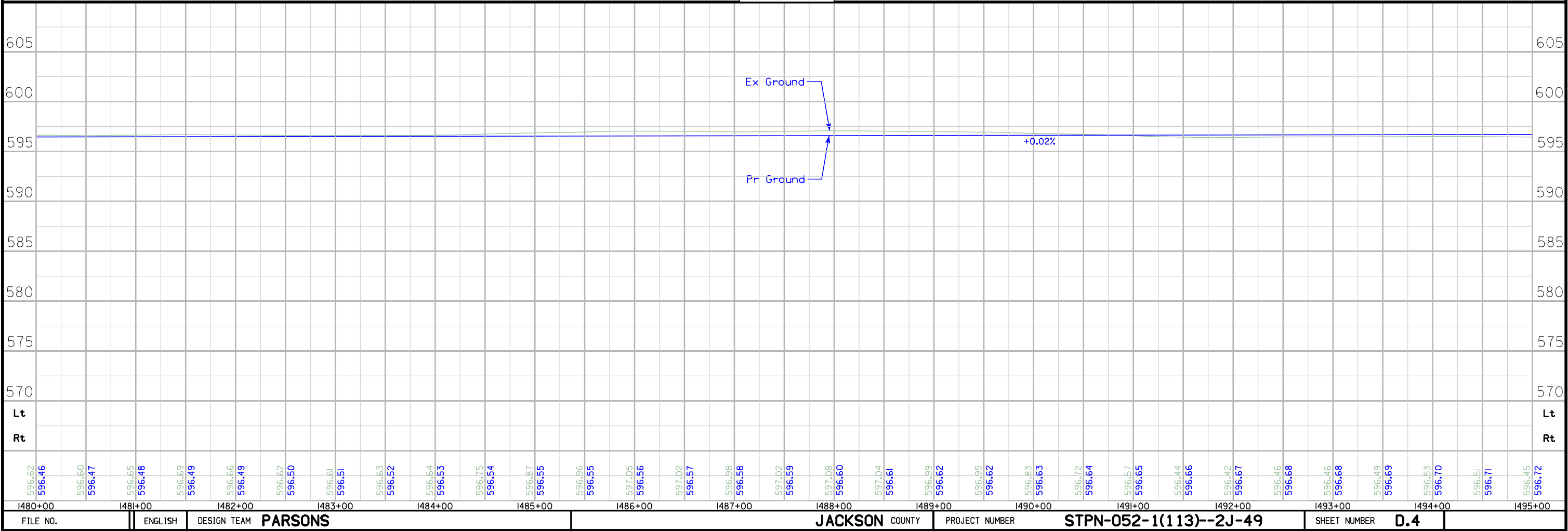
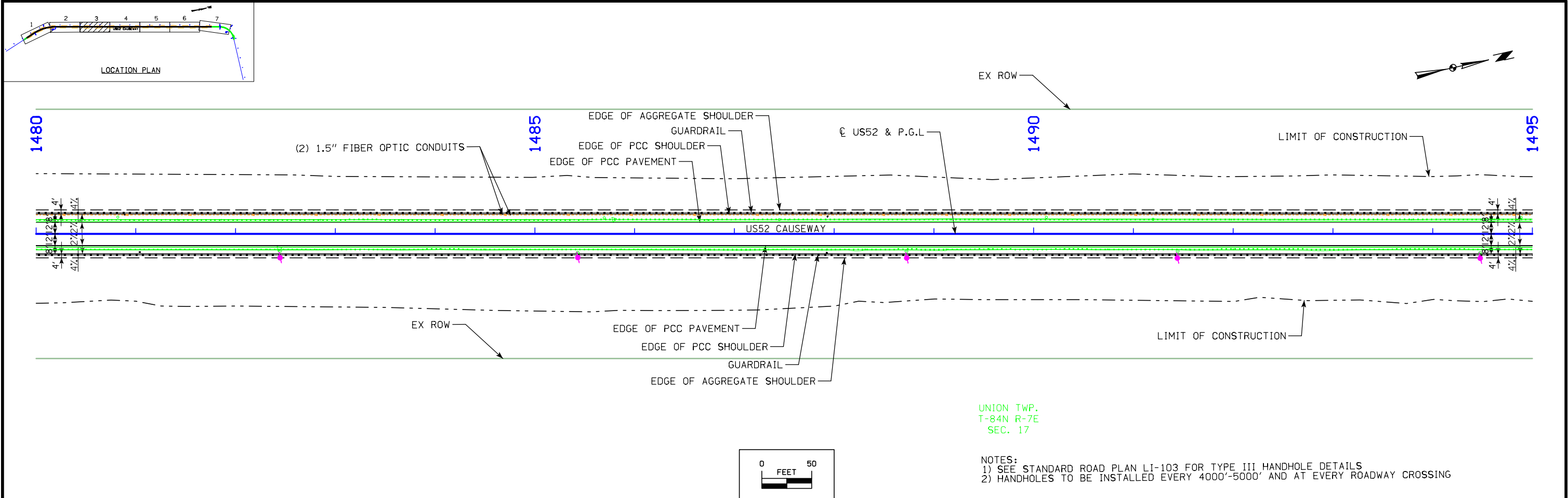
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-  Proposed Right-of-Way Line
-  Existing Right of Way
-  Existing and Proposed Right-of-Way
-  Easement and Existing Right-of-Way
-  Easement (Temporary) Symbol
-  Easement (Temporary) Line
-  Easement
-  Access Control
-  Property Line Symbol
-  Property Line

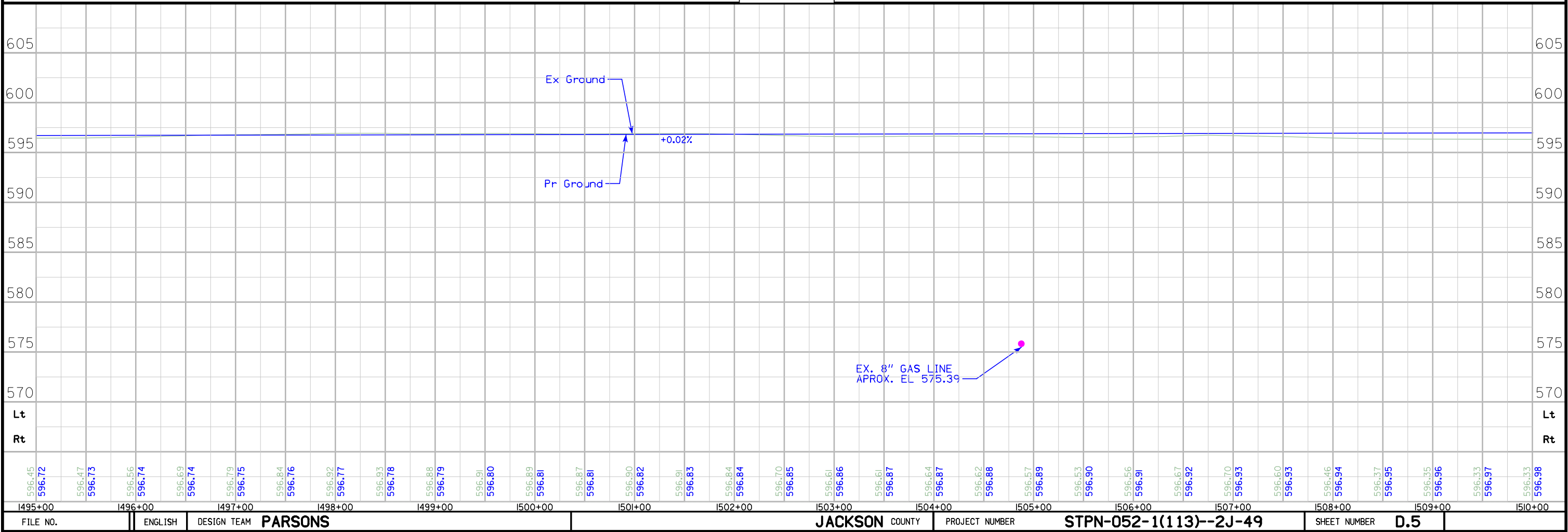
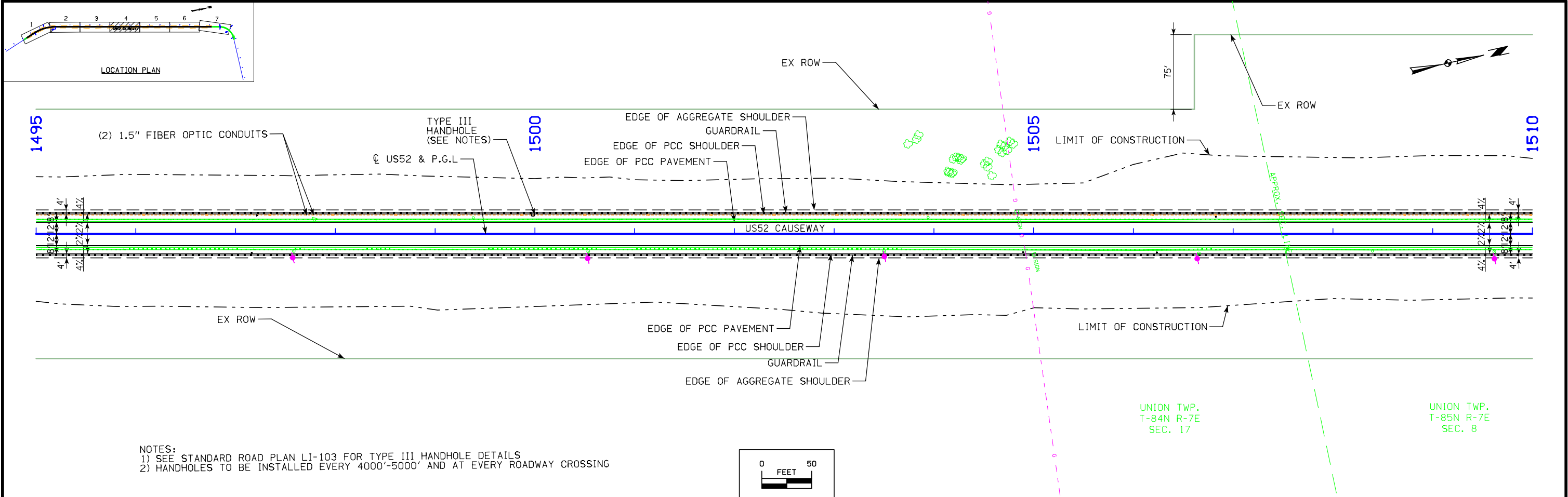
PLAN AND PROFILE
LEGEND AND SYMBOL
INFORMATION SHEET

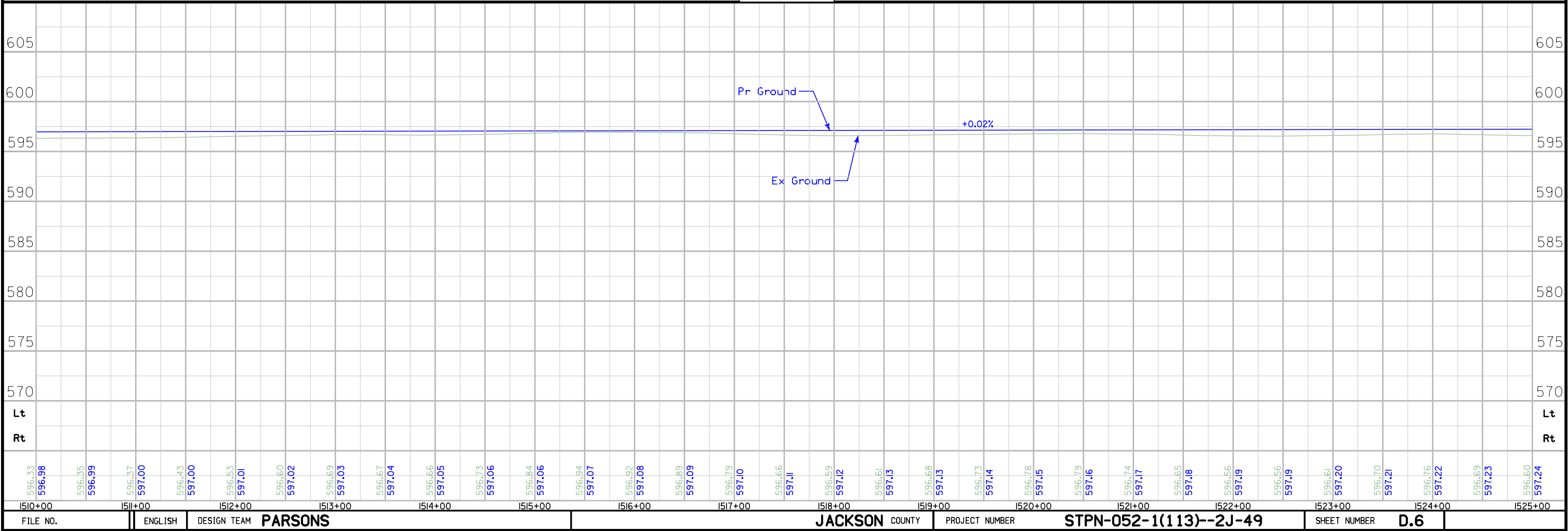
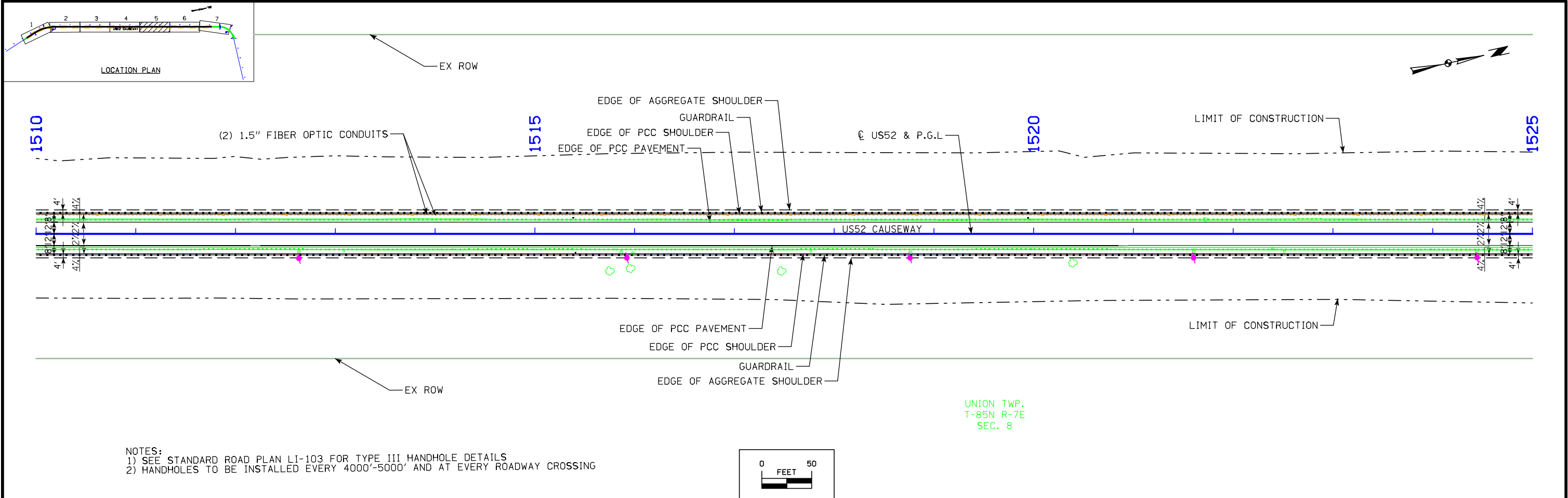
(COVERS SHEET SERIES D, E, F, & K)

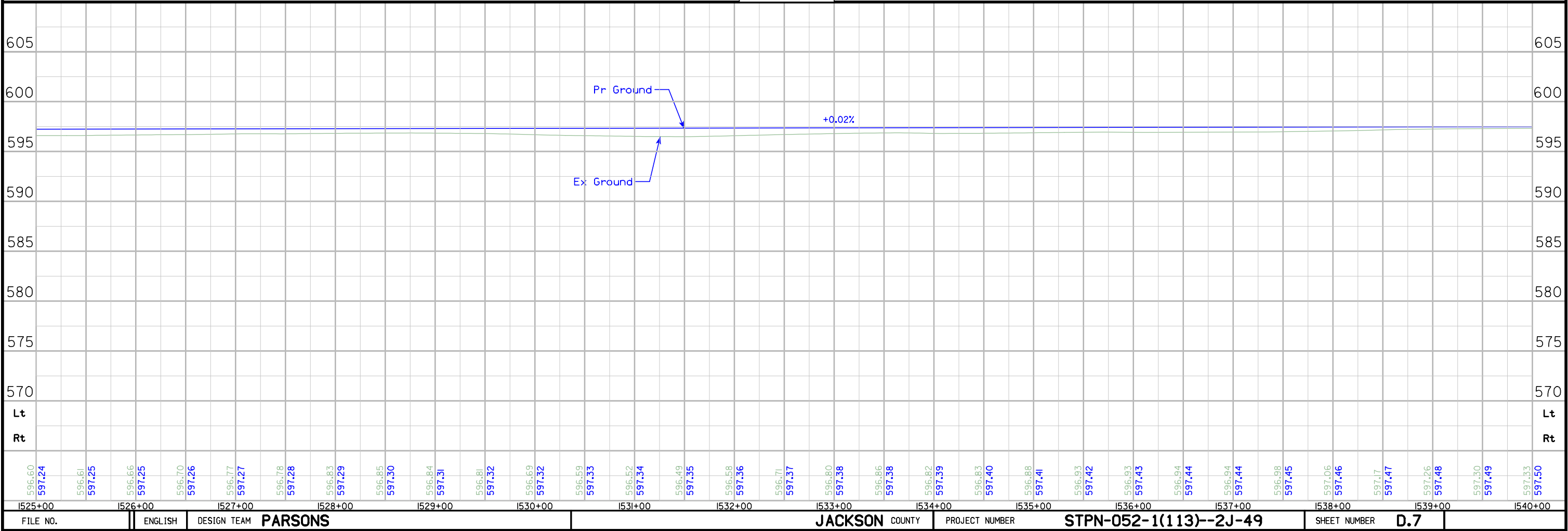
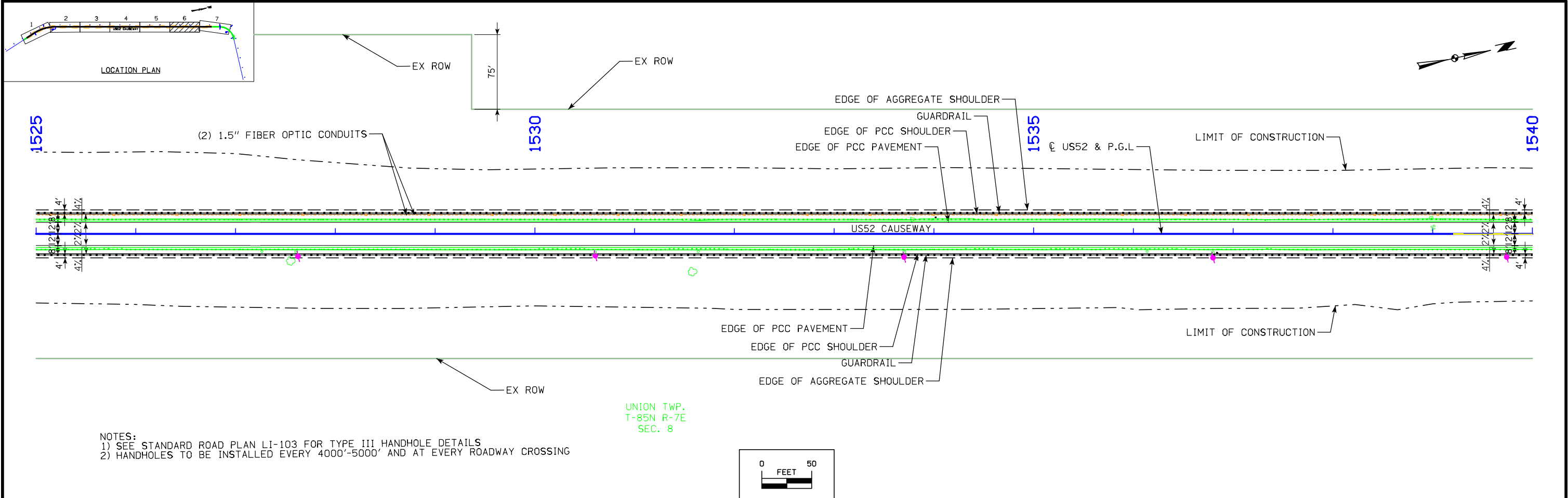


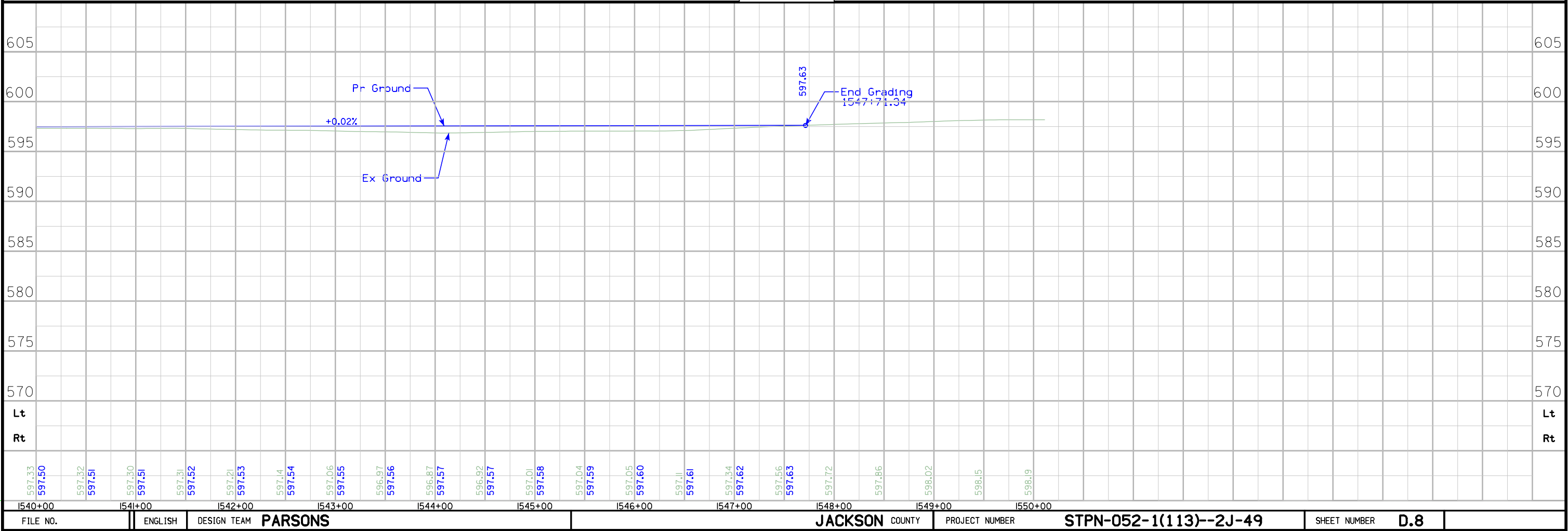
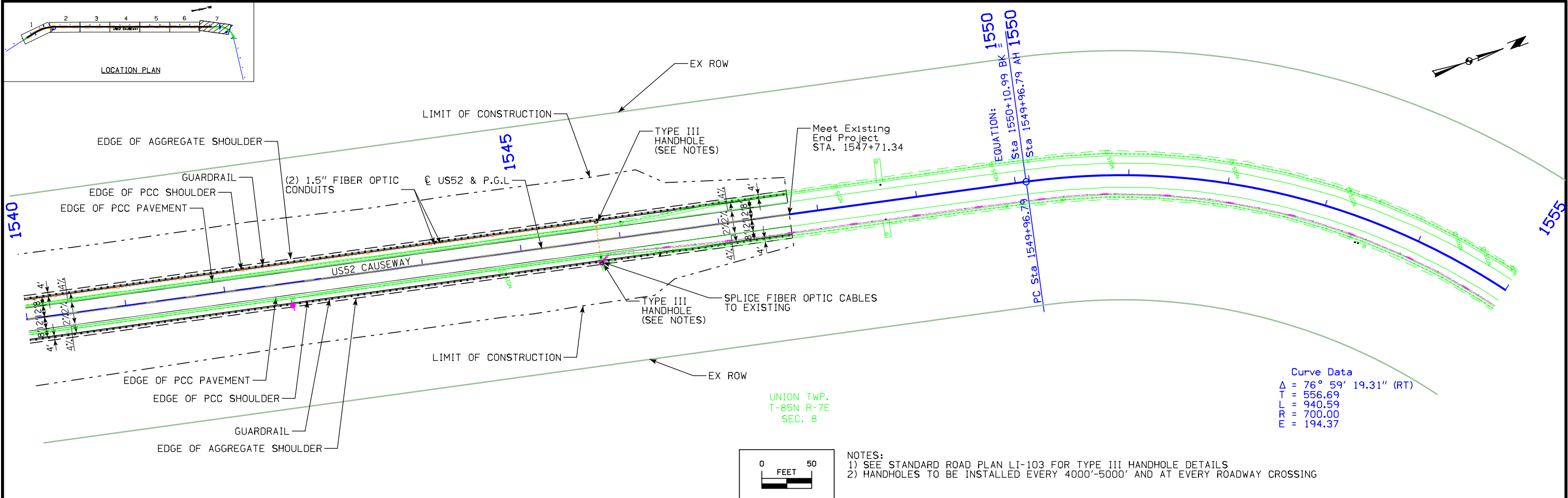












Survey Information

Jackson County
STPN-052-1(113)—2J-49
US 52 north of Sabula
PIN 18-49-052-010
Sap-693.1

Party Personnel

Tom Hoyle – Lead Survey Technician
Dave Ciskowski – Survey Technician
Brad Duffy - Survey Technician
Andrew Brown – Survey Technician

Date(s) of Survey

Begin Date 6/25/2019
End Date 9/30/2019

Vertical Control

Vertical datum for this survey is NAVD88. Geoid 12B was used. The orthometric heights of NGS stations JLS 112 (NJ0066), F (AE9318) and B175 (NJ0101) were held in the adjustment. A closed level loop was run though the control points from NGS station F (AE9318) to CP 100 and back to station F. The record elevation of station F and the GPS derived elevation of CP 100 were held fixed. The estimated standard error of the observed height differences from the network adjustment was 0.0128 ft/mile. Benchmark 507, 508 and 509 from SAP 693 the Mississippi River Overflow Bridge project were found. The record elevation of 507 was 598.462 the elevation on this survey is 598.39. The record elevation of 508 was 598.757 the elevation on this survey is 598.68 The record elevation of 509 was 598.825 the elevation on this survey is 598.74. Control Point 100 is also Illinois DOT Permanent Survey Marker (PSM) CAR71 with a record elevation of 595.693 the elevation on this survey is 595.689.

General Information

Measurement units for this survey are US survey feet. This survey is for reconstruction and widening of approximately 2 miles of US 52 from the Mississippi River Overflow Bridge north of Sabula north to the Mississippi River Bridge. This project is a Full DTM Survey.

Horizontal Control

The project coordinate system is IaRCS Zone 11. The RTN position of reference station Davenport, Dubuque and Sabula were held and multiple 30-minute static observations were done on control points 17, 100, ASE101 and ASE102. The maximum difference in coordinates was 0.025' in the northing on point ASE102. Additional secondary control points were established by traverse.

Alignment Information

The horizontal alignment for this survey is a retrace of the Iowa As Built Plans FN-64-9(1)—21-49 and Illinois plans for FAP Route 17 contract 64G59. Survey stationing was equated to the plan PI at Sta. 1432+00.6 on the Iowa plans and run ahead to the PC at Sta. 1549+96.79 on the Illinois plans. Creating a Station Equation at the PC of the Illinois plans PC 1550+10.99 (BK) = 1549+96.79 (AH).

Survey stationing relates to as built plan stationing as follows:

PI Sta. 1432+00.6 CL Project No. FN-64-9(1)—21-49.
Survey PI Sta. 1432+00.6.

PI Sta. 1462+25.06 CL Project No. FN-64-9(1)—21-49.
Survey PI Sta. 1462+25.06.

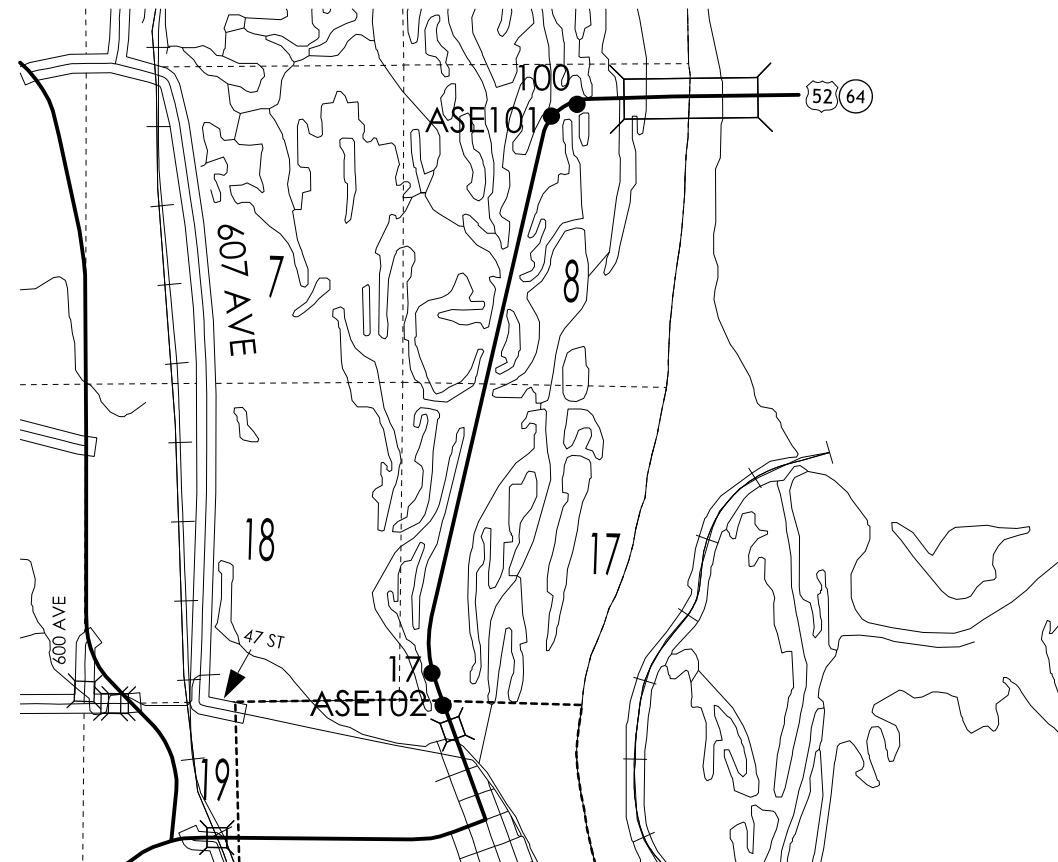
PC Sta. 1549+96.79 CL Contract 64G59.
Survey PC Sta. 1550+10.99 (BK) = 1549+96.79 (AH).

PI Sta. 1555+53.48 CL Contract 64G59.
Survey PI Sta. 1555+53.48.

PI Sta. 1585+98.63 CL Contract 64G59.
Survey PI Sta. 1585+98.94.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 11

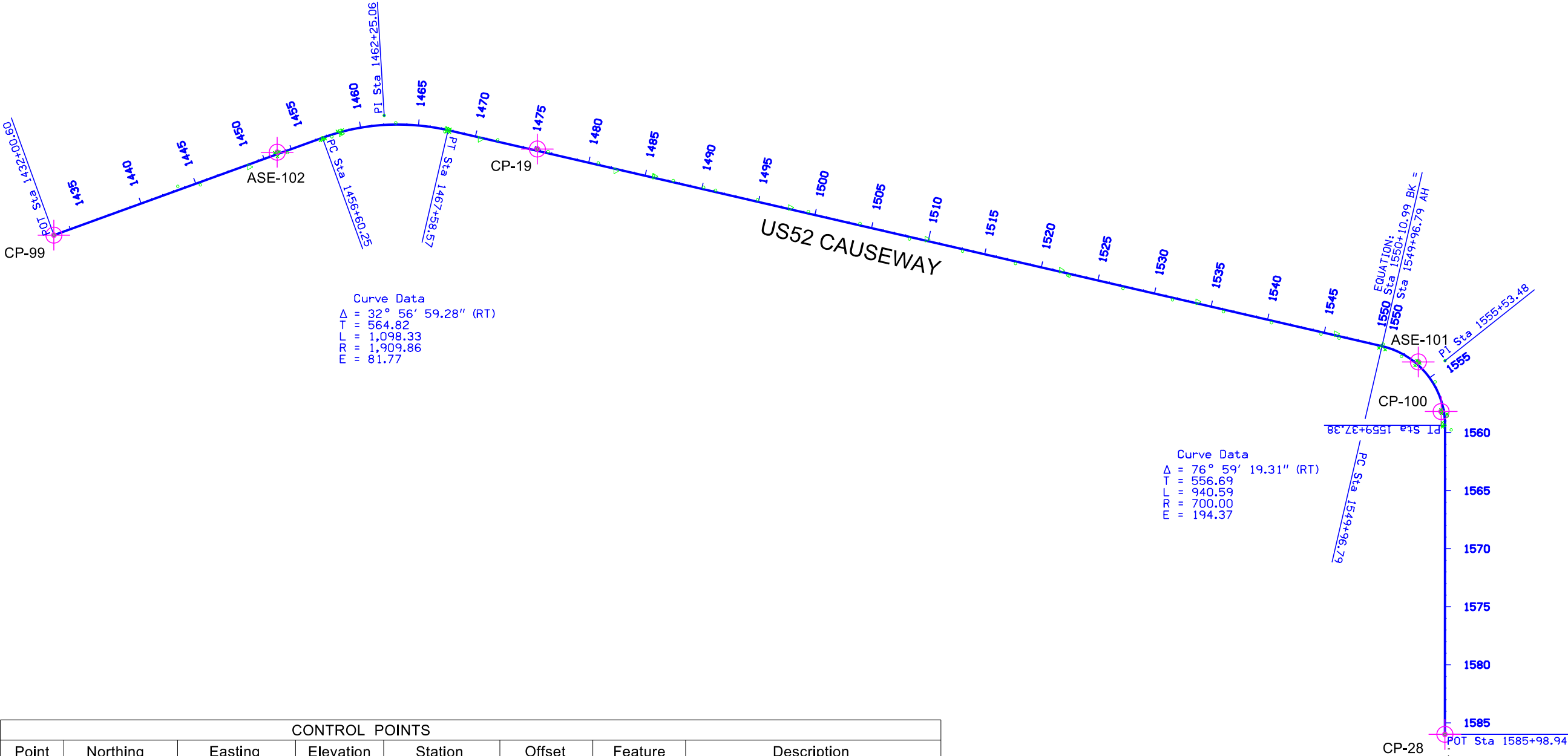
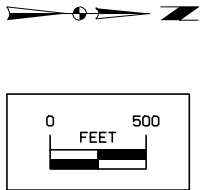
Coordinate listing from next sheet will be used with 1aRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

IA. REGIONAL COORDINATE SYSTEM ZONE 11



CONTROL POINTS							
Point	Northing	Easting	Elevation	Station	Offset	Feature	Description
CP-19	8267971.0940	21596890.4050	596.206	1475+43.77	-15.70	CPS	CP FD 5/8 REBAR
CP-28	8275784.1680	21601932.4800	0	1585+98.94 R2	00.00	CPS	CP PI STA 1585+98.94
CP-99	8263808.8380	21597632.0600	595.774	1432+00.60	00.00	CPS	CP FD MAG NAIL
CP-100	8275751.7582	21599151.8408	595.689	1558+13.70 R2	22.57	CPS	CP FD DISK IN CONCRETE
ASE-101	8275555.1163	21598724.0161	598.666	1553+34.90 R2	-21.15	CPS	CP SET 5/8 REBAR W/ RED CAP
ASE-102	8265731.3938	21596918.1399	596.299	1452+51.37	-16.04	CPS	CP SET 5/8 REBAR W/ RED CAP

101_16 10/25/24																				
ALIGNMENT COORDINATES																				
Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1.0	1	U.S. 52	1432+00.60	8263808.838	21597632.060															
2.0	2	U.S. 52							1456+60.25	8266121.268	21596793.885	1462+25.06	8266652.278	21596601.410	1467+58.57	8267202.562	21596728.750			
3.0	3	U.S. 52	1550+10.99	8275242.625	21598588.760															
4.0	4	U.S. 52							1549+96.79	8275242.625	21598588.760	1555+53.48	8275784.993	21598714.230	1559+37.38	8275784.850	21599270.920			
5.0	5	U.S. 52	1585+98.94	8275784.168	21601932.480															

101_18
6/17/24

SUPERELEVATION DATA
See PV-300 Series

Line No.	Road Identification	Circular Curve or Spiral Curve Name	Radius (FT)	e (%)	L (FT)	x (FT)	Standard Road Plan	Section A-A	Section A'-A'	Section B-B	Section C'-C'	Section C-C	Section D-D	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
1.0	U.S. 52	Curve 1	1909.9	5.5	132.0	48.00	PV-301	1455+19.85		1455+67.85		1456+15.85	1456+99.85							
1.1								1468+98.97		1468+50.97		1468+02.97	1467+18.97							

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TRAFFIC CONTROL PLAN

- 1) Traffic control on this project shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) for the Streets and Highways as adopted by the Iowa Department of Transportation per 761 of the Iowa Administrative Code (IAC) Chapter 13.
- 2) Contractor shall coordinate traffic control with other stakeholders/agencies in the area. Refer to Tab 111-01.
- 3) Maintain at least one lane (two-way traffic) throughout the causeway during construction.
- 4) Temporary traffic signals and Wait Time Displays shall be employed to maintain traffic in the single lane through the work zone.
- 5) Initial recommended temporary traffic signal timings have been provided. Any updates to account for real time traffic situations shall be approved and/or directed by the Engineer.
- 6) Work zones will be limited to 5000’ sections per side of roadway construction.
- 7) Contractor to submit an updated Traffic Control Plan for approval if changes to the sequence or any element of the Designer’s Traffic Control Plan are preferred.
- 8) Contractor Access Points with TBR to be confirmed with Engineer in the field.
- 9) Workzone Speed Limit = 35 mph
- 10) Contractor is allowed a complete shutdown of US-52 Causeway for a total of 45 Calendar Days throughout the duration of the project. The amount and duration of closures is up to Contractor’s discretion and approval of Engineer as long as total duration is less than or equal to 45 Calendar Days. Detour plan provided must be set up prior to start of project and must remain up for the duration of the project. Coordination with Illinois DOT required for the implementation of the Detour in Illinois as well as traffic control setup at the intersection of US-52 and IL-84 in Savanna during the Detour.

COORDINATED OPERATIONS

Utility Coordination:
- Contractor is responsible for coordinating all Fiber Optic construction activities with Windstream Communications and MediaCom. Contact information for each company is provided:

Windstream Communications	MediaCom
XXXX XXXX	XXXX XXXX
Phone:	Phone:
Email:	Email:

City of Sabula and Savanna Coordination:
- Contractor is responsible for coordinating all Traffic Control and Staging switches throughout the project with both Sabula and Savanna. Notices should be sent at least 10 calendar days prior to any change in Traffic Control. Contact information is provided:

City of Sabula	City of Savanna
XXXX XXXX	XXX XXXX
Phone:	Phone:
Email:	Email:

Illinois DOT Coordination:
- Contractor is responsible for coordinating the setup/maintenance/removal of the Project Detour with the Illinois DOT. Notices should be sent at least 10 calendar days prior to any Full Closures. Contractor to complete Illinois DOT Form BSPE 725 and send to Kevin Henson. Contact Information is provided:

Illinois DOT
Kevin Henson
Phone: 815-284-5474
Email: Kevin.Henson@illinois.gov

Illinois DOT Projects on Detour Route for coordination purposes:
-Contract 64S71 - IL 84 resurfacing from Whiteside County Line to Savanna - Construction to begin summer of 2026.

STAGING NOTES

PHASE 1 TRAFFIC

- Two Substages (A and B) will be needed for Phase 1. Each Substage will have a workzone length of 5000’.
- Maintain traffic on existing eastbound roadway (two-way traffic) through work zone utilizing temporary traffic signals and wait time displays.

PHASE 1 CONSTRUCTION

- Construct proposed westbound embankment, and temporarily supported/protected Fiber Optic conduits.
- Construct westbound temporary aggregate shoulder and temporary guardrail for Phase 2 MOT switch.

PHASE 2 TRAFFIC

- Two Substages (A and B) will be needed for Phase 2. Each Substage will have a workzone length of 5000’.
- Maintain traffic on existing westbound roadway (two-way traffic) through work zone utilizing temporary traffic signals and wait time displays.

PHASE 2 CONSTRUCTION

- Coordinate with Utility companies to pull F0 cable in temporary conduits on outside of temporary guardrail on proposed westbound embankment prior to begining proposed eastbound embankment work.
- Construct proposed eastbound embankment.
- Construct eastbound temporary aggregate shoulder and temporary guardrail for Phase 3 MOT switch.

WINTER SHUTDOWN

- Allow at least 3 months for settlment of the constructed embankment before paving operations begin. See Paving Delay Tab 300.99 for further details.

PHASE 3 TRAFFIC

- Two Substages (A and B) will be needed for Phase 3. Each Substage will have a workzone length of 5000’.
- Maintain traffic on existing eastbound pavment and temporary pavement (two-way traffic) through work zone utilizing temporary traffic signals and wait time displays.

PHASE 3 CONSTRUCTION

- Remove eastbound temporary aggregate shoulder and construct eastbound temporary pavement to the limits shown on the plans under single lane day closures with flaggers following Standard Plan TC-213.
- Remove westbound temporary aggregate shoulder and existing pavement to the limits shown on the plans.
- Construct proposed westbound pavement, shoulder, guardrail, subdrain and F0 conduit trench.
- Coordinate with Utility companies for F0 cable pull in permanent conduit trench prior to Phase 4.

PHASE 4 TRAFFIC

- Two Substages (A and B) will be needed for Phase 4. Each Substage will have a workzone length of 5000’.
- Maintain traffic on previously constructed westbound roadway and shoulder (two-way traffic) through work zone utilizing temporary traffic signals and wait time displays.

PHASE 4 CONSTRUCTION

- Remove existing eastbound pavement and temporary pavement to the limits shown on the plans.
- Construct proposed eastbound pavement, shoulder and guardrail.

108_13A
3/27/25

SAFETY CLOSURES
Refer to Section 2528 of the Standard Specifications

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
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Contractor is allowed a complete shutdown of US-52 Causeway for a total of 45 Calendar Days throughout

108_25
3/28/24

511 TRAVEL RESTRICTIONS													
Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
1.0	US-52	Both	Jackson		Mississippi River	Barrier	N/A	Horizontal	N/A	13	12	N/A	Phase 1/3/4

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS			
SHADING	Design Color No.		
Green, Light	(225)		Existing Pavement Shading
Gray, Light	(48)		Previously Constructed Pavement Shading
Gray, Med	(80)		Previously Constructed Granular Surface Shading
Blue, Light	(230)		Proposed Pavement Shading
Lavender	(9)		Temporary Pavement Shading
Brown, Med	(237)		Future Proposed Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS			
	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail		Permanent Barrier Rail
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS			
LINEWORK	Design Color No.		
Green	(2)		Existing Topographic Features and Labels
Magenta	(5)		Pavement Marking Call Outs
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)		Pavement Markings, Yellow
Off White	(254)		Pavement Markings, White
Violet	(15)		Temporary barrier rail, Unpinned
Flush Orange	(228)		Temporary barrier rail, Pinned

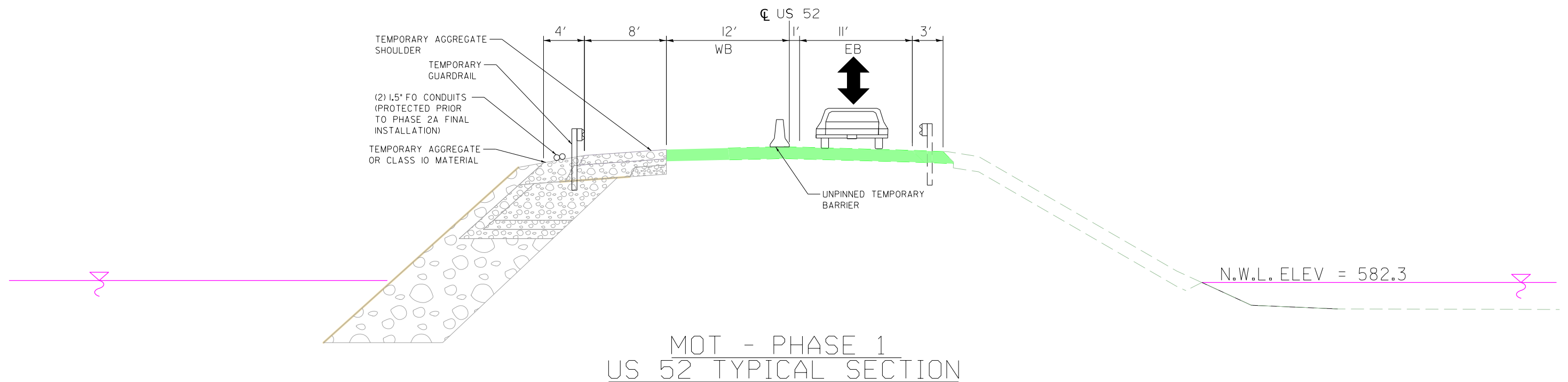
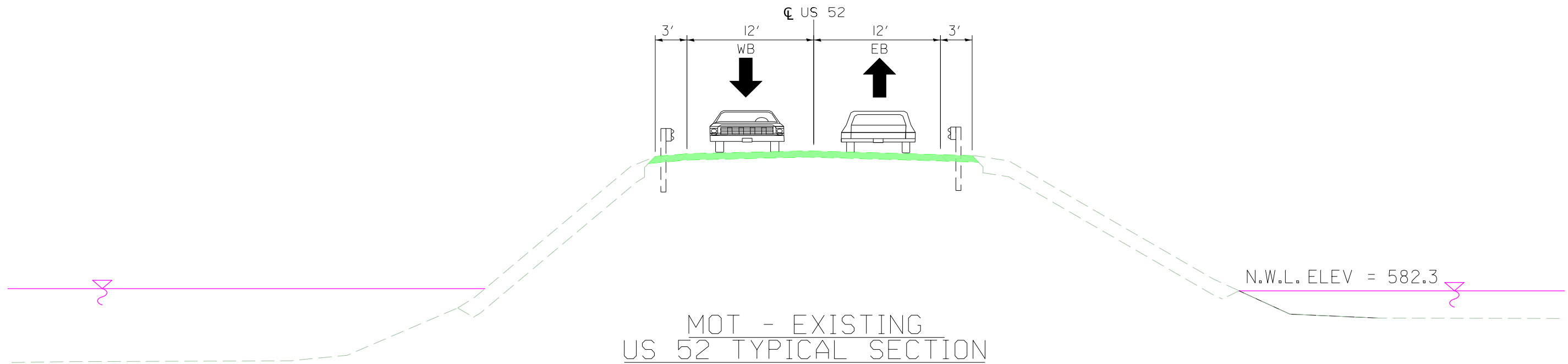
SHADING	Design Color No.		
Green, Light	(225)		Existing Pavement Shading
Gray, Light	(48)		Previously Constructed Pavement Shading
Gray, Med	(6)		Proposed Granular Surface Shading
Gray, Med	(80)		Previously Constructed Granular Surface Shading
Blue, Light	(230)		Proposed Pavement Shading
Pink, Dark	(13)		Temporary Pavement Shading
Brown, Light	(236)		Proposed Grading Limits Shading
Cyan	(7)		Proposed MSE or CIP Wall Shading
Red	(3)		Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)		Previously Constructed Structure

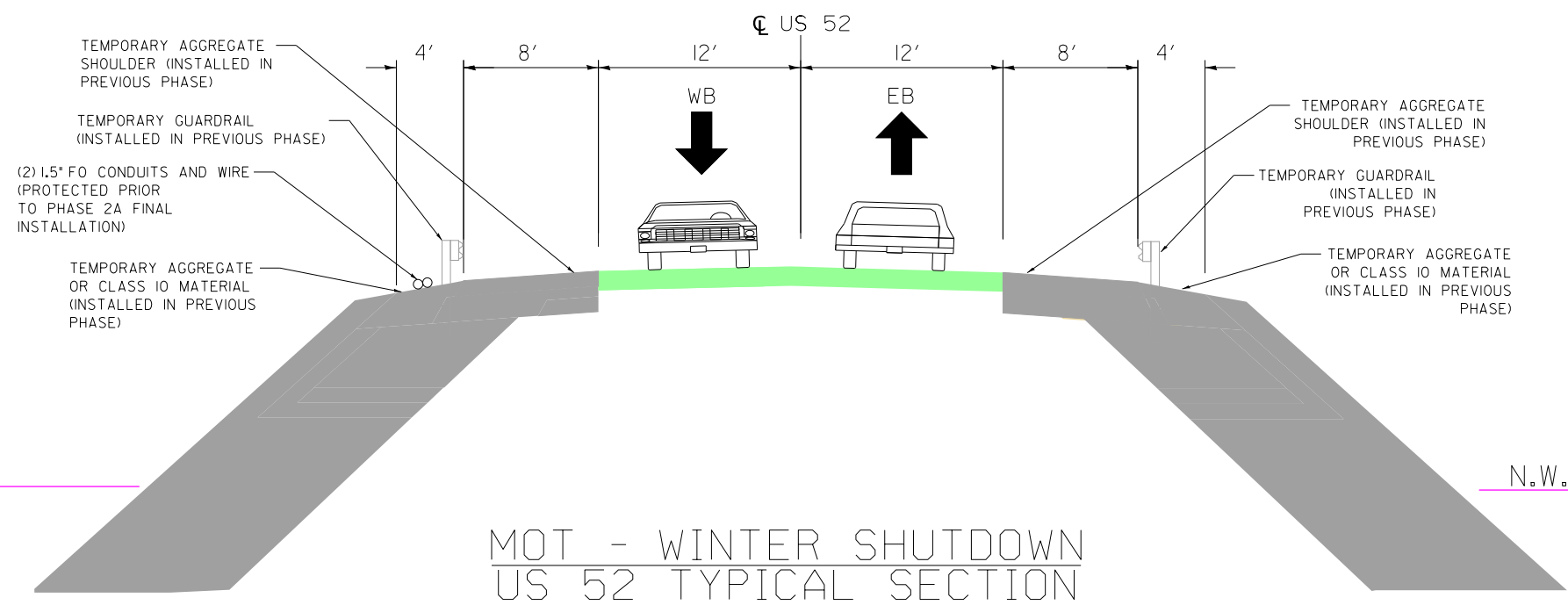
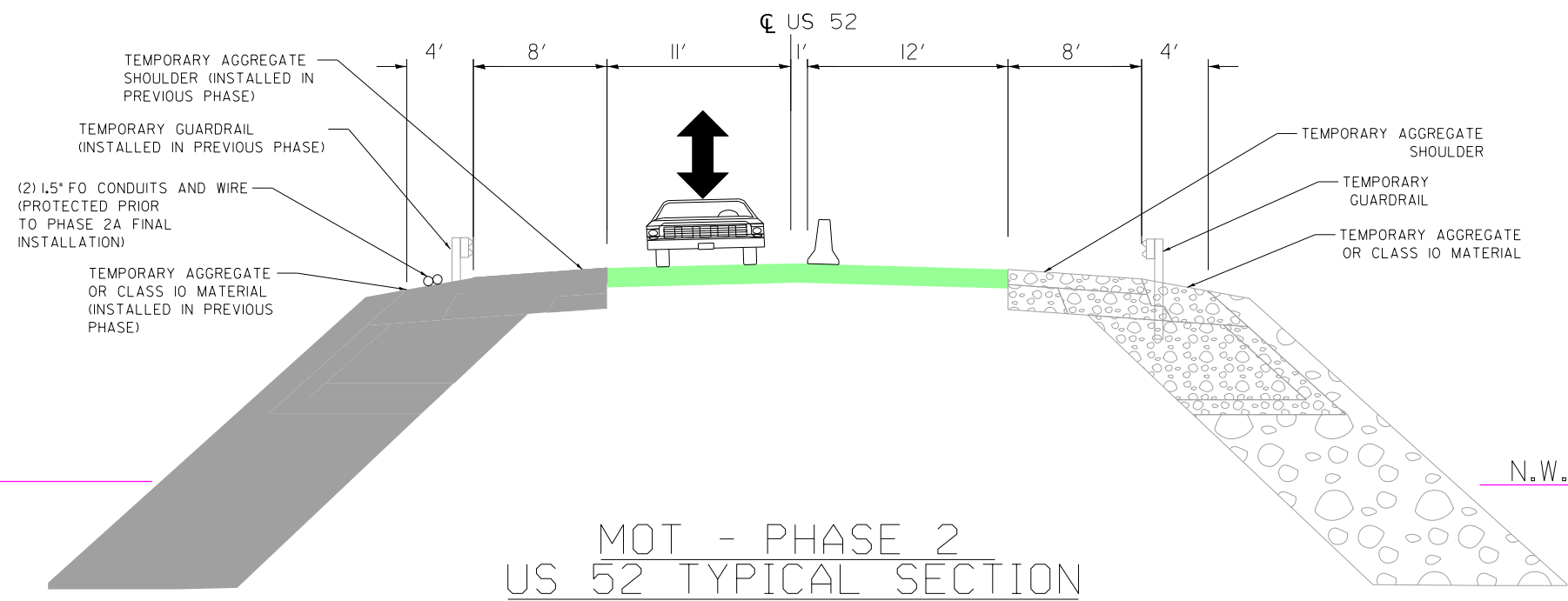
PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS			
	Channelizing Device		Crash Cushion (Temp or Perm)
	Drum		Traffic Signal
	Temporary Lane Separator		Flagger
	Tubular Marker		Temporary Floodlighting
	Channelizer Marker		Traffic Sign
	Concrete Barrier Marker		Type III Barricade
	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout		Lane Identification

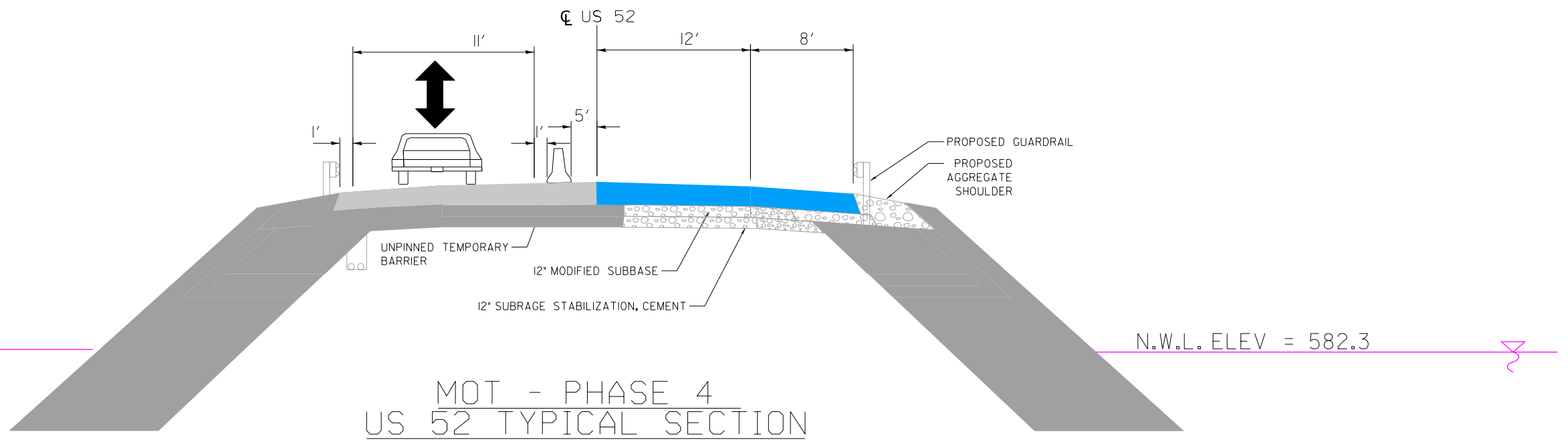
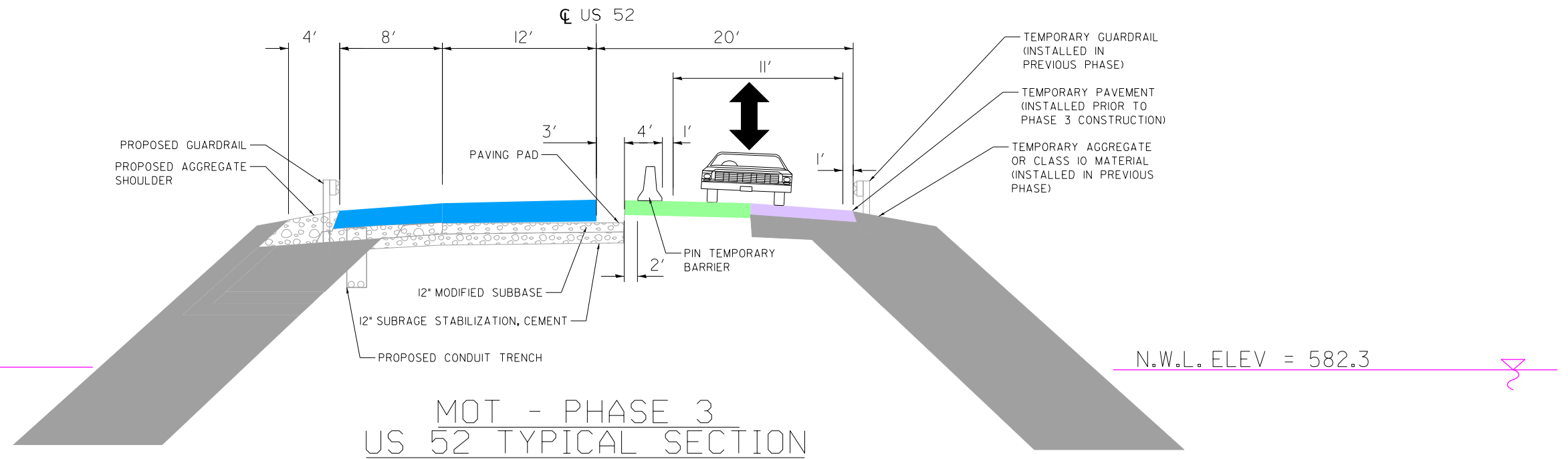
NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

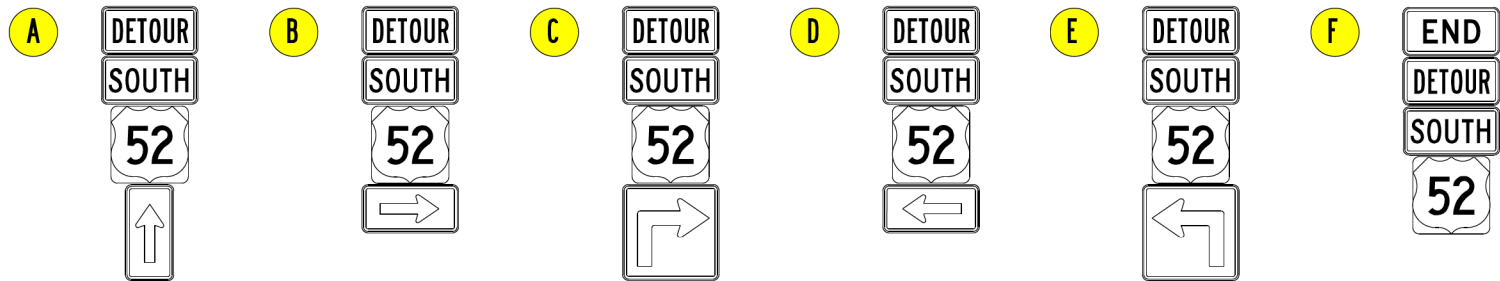
TRAFFIC CONTROL
AND
STAGING
LEGEND AND SYMBOL
INFORMATION SHEET

(COVERS SHEET SERIES J)



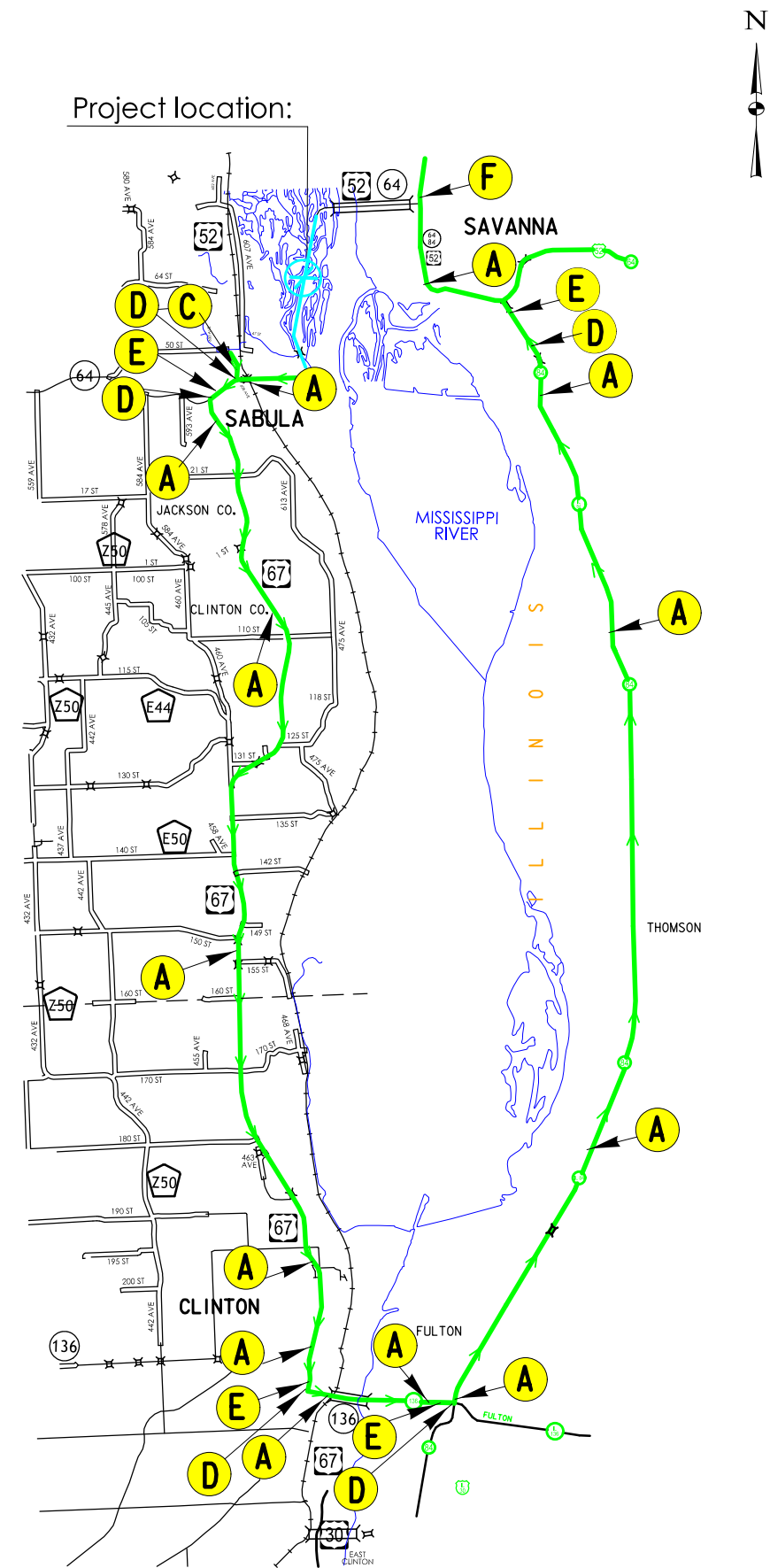




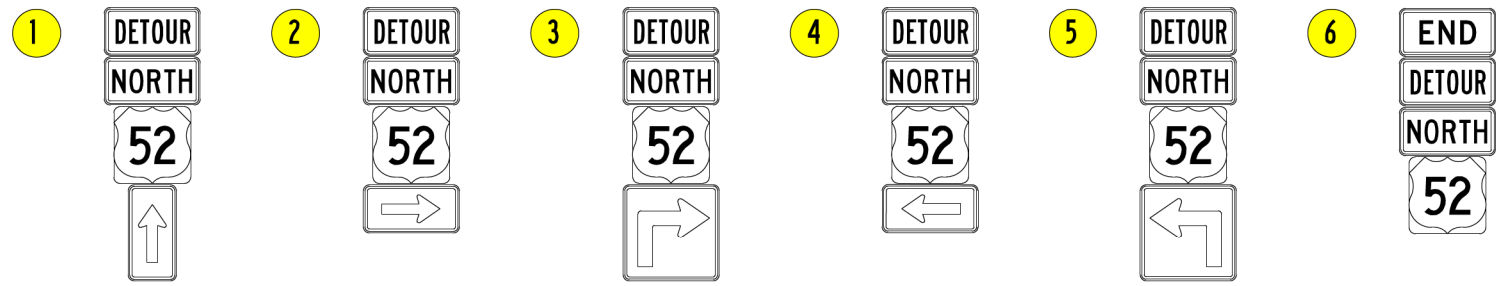


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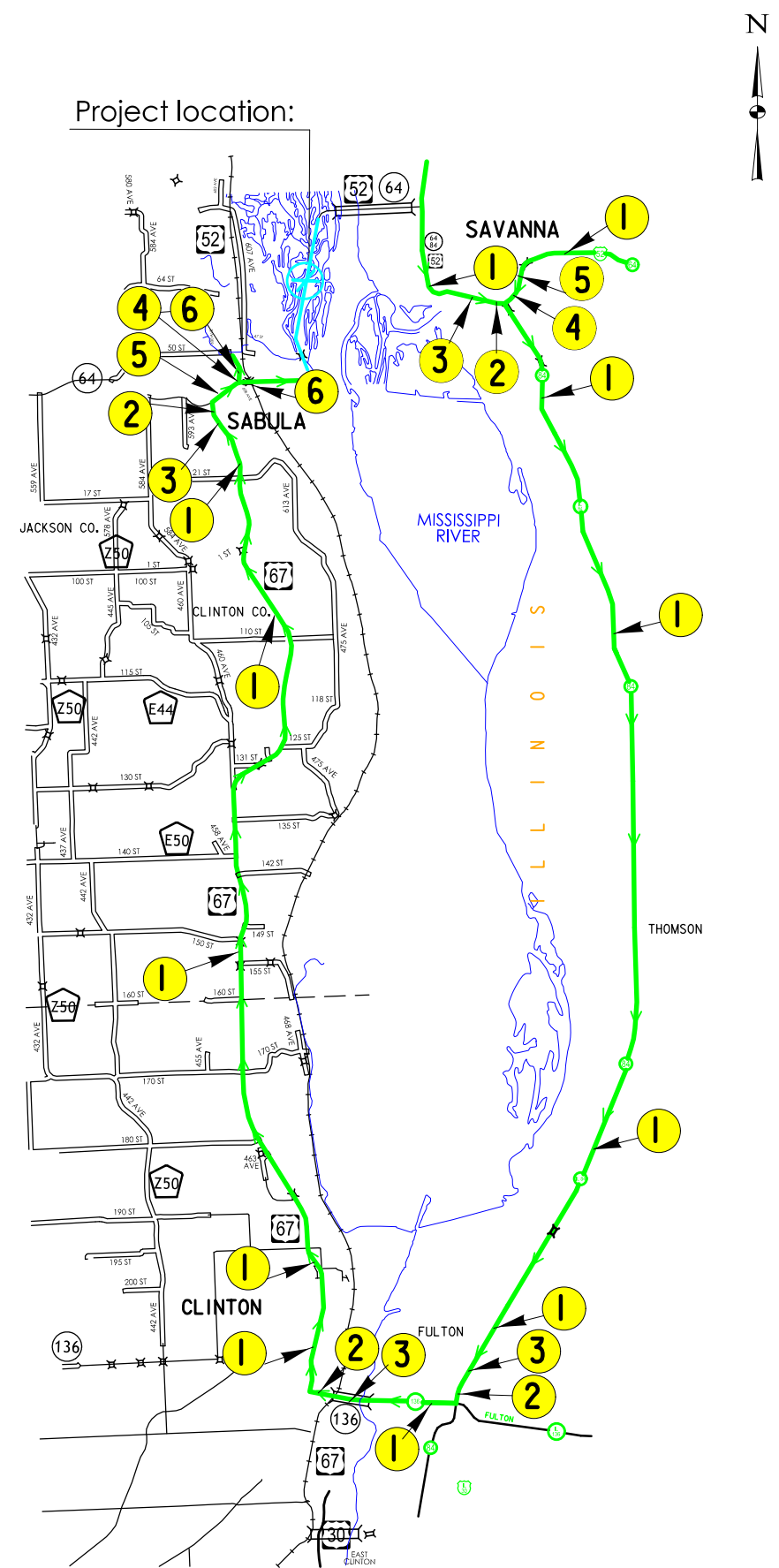
- 1) All detour signage located in Illinois should be coordinated with the Illinois DOT prior to implementing the US 52 Detour. The point of contact is Kevin Henson (Work: 815-284-5474 / Cell:815-631-9092)
- 2) Refer to Standard Plan TC-252 for all appropriate advanced Road Closure signage.
- 3) Detour Signage shall remain in place for the duration of the project.
- 4) Final placement and quantity/type/size of Detour Signs to be confirmed by Engineer prior to installation.



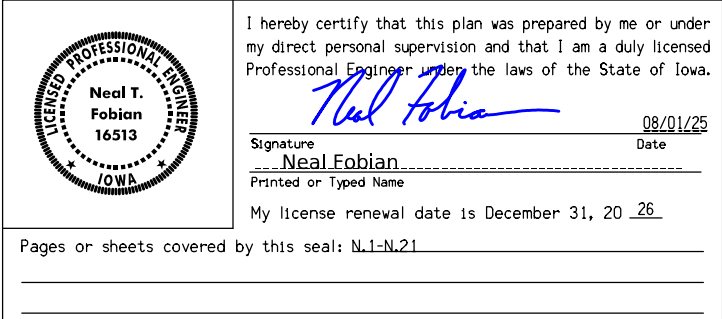
US 52 DETOUR SIGNING
SOUTHBOUND



- NOTES:
- 1) All detour signage located in Illinois should be coordinated with the Illinois DOT prior to implementing the US 52 Detour. The point of contact is Kevin Henson (Work: 815-284-5474 / Cell:815-631-9092)
 - 2) Refer to Standard Plan TC-252 for all appropriate advanced Road Closure signage.
 - 3) Detour Signage shall remain in place for the duration of the project.
 - 4) Final placement and quantity/type/size of Detour Signs to be confirmed by Engineer prior to installation.



US 52 DETOUR SIGNING
NORTHBOUND

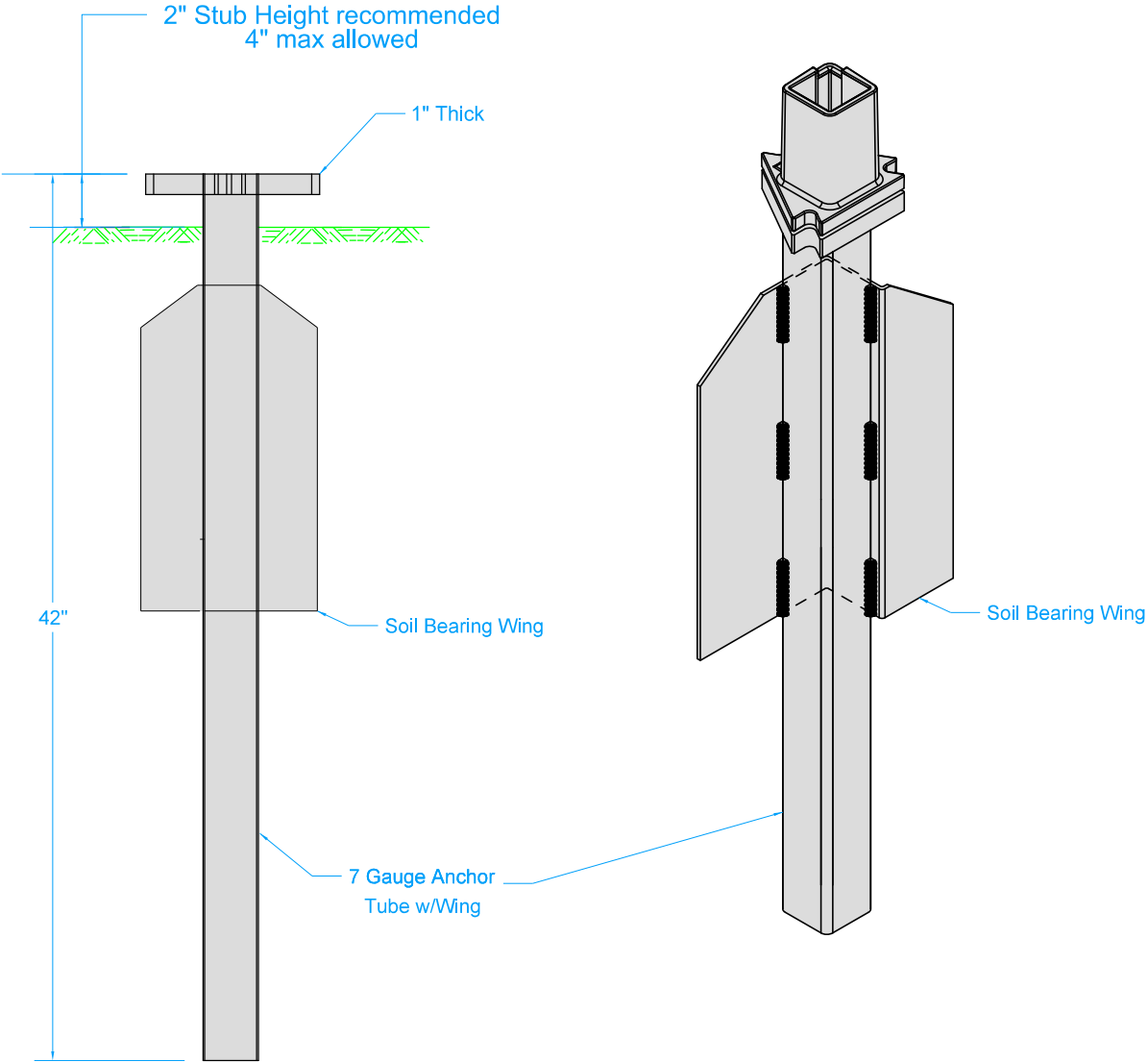


Thel Fobia

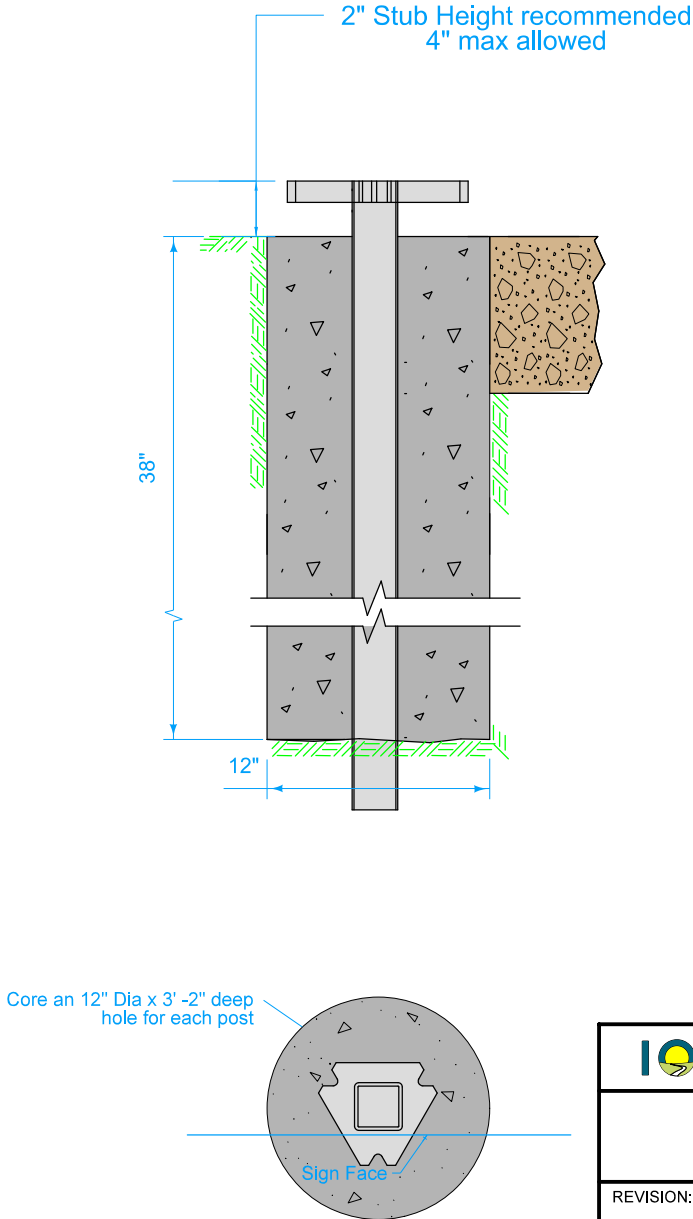
Printed or Typed Name _____

Pages or sheets covered by this seal: N.1-N.21

TYPE 3 INSTALLATION
(TRIANGULAR SLIP BASE SOIL)

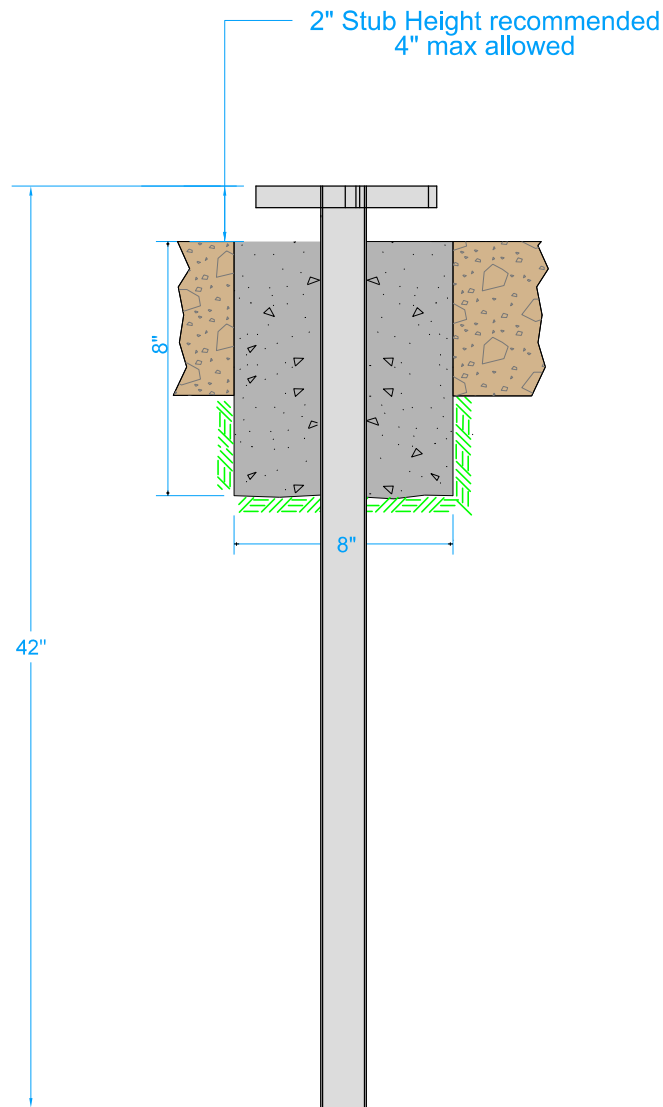


TYPE 4 INSTALLATION
(TRIANGULAR SLIP BASE CONCRETE)

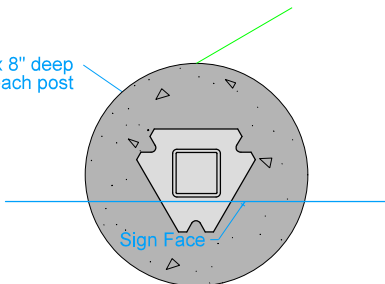


	REVISION	
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	TAS STANDARD	
REVISION: __		
Support Structures - Perforated Square Steel Tube Anchor and Post		

TYPE 5 INSTALLATION
(TRIANGULAR SLIP BASE CONCRETE)

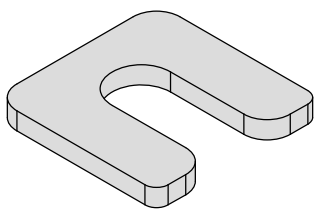


Core an 8" Dia x 8" deep
hole for each post



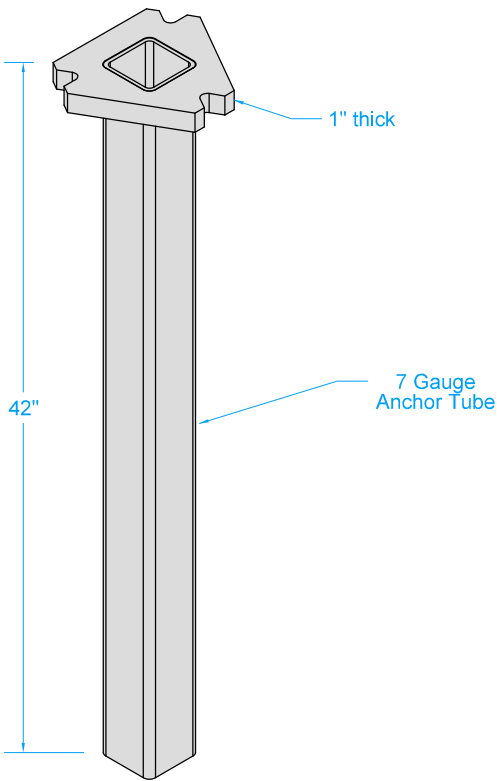
① Used in concrete islands.

IOWA DOT	REVISION	
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	TAS STANDARD	
REVISION: __		
Support Structures - Perforated Square Steel Tube Anchor and Post		



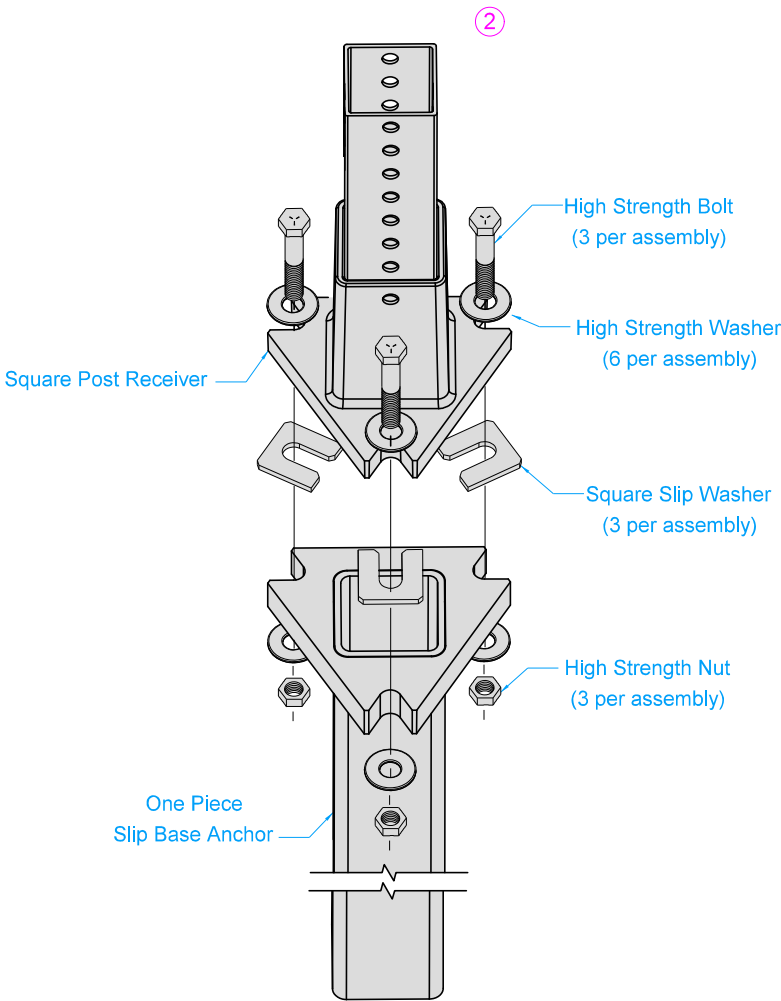
1 $\frac{3}{4}$ " SQUARE X $\frac{3}{16}$ "
SQUARE SLIP WASHER

ONE PIECE
SLIP BASE ANCHOR



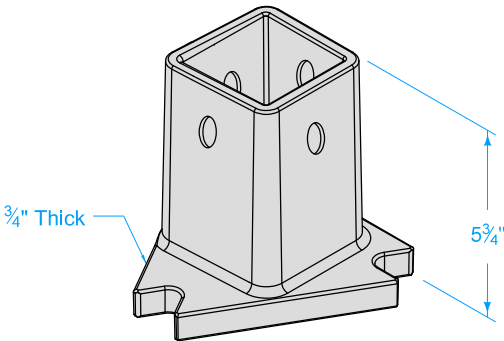
- ① Type III/IV installation
- ② Fastener size and installation procedure shall be according to manufacturer's recommendation.

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TAS STANDARD			
REVISION: __			
Support Structures - Perforated Square Steel Tube Anchor and Post			



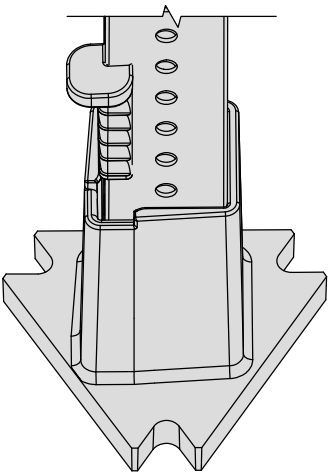
EXPLODED VIEW
SLIP BASE, RECEIVER AND
CONNECTION HARDWARE

OPTION 1

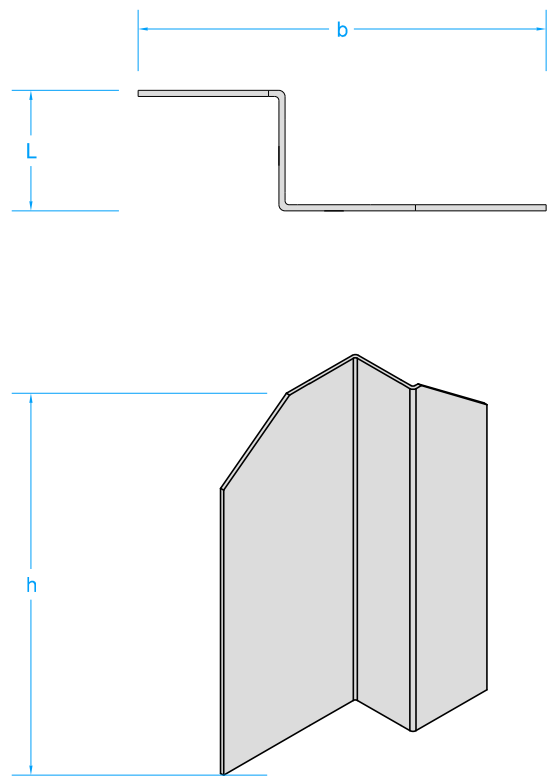
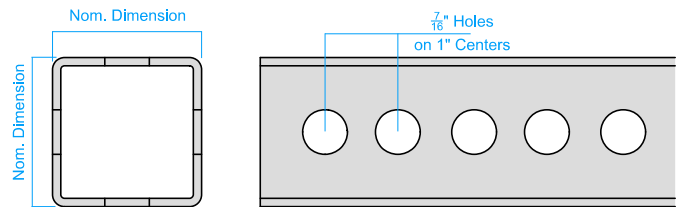


2 $\frac{1}{2}$ " SQUARE POST RECEIVER

OPTION 2

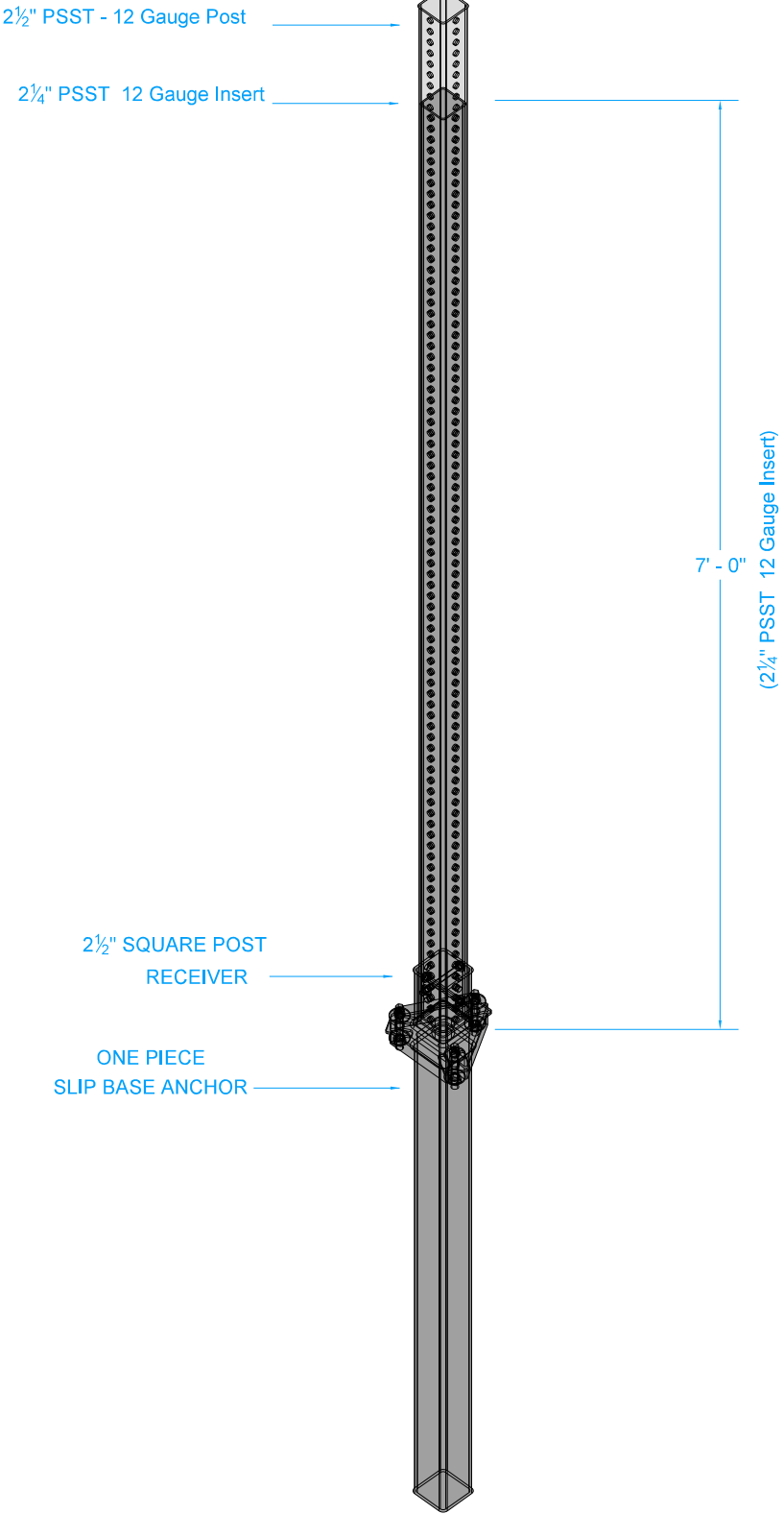


PERFORATED STEEL SQUARE TUBE POST DETAILS

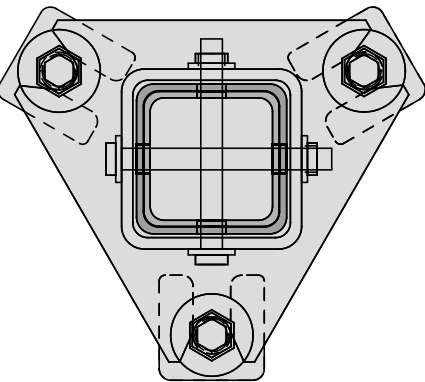
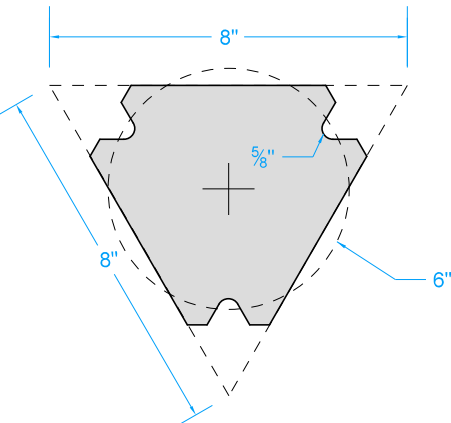


SOIL BEARING WING

SLIP BASE WITH NESTED PERFORATED SQUARE STEEL TUBE POST ^①



SLIP PLATE DIMENSIONS ^①

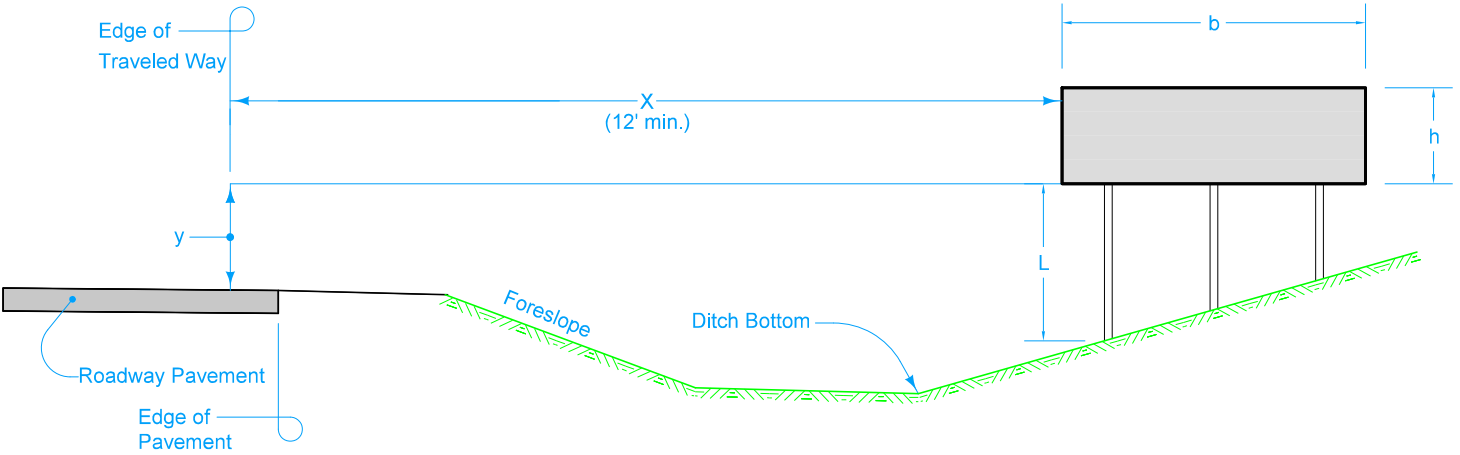


^① Type III/IV installation only

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	TAS STANDARD	
...	...	
REVISION: __		
Support Structures - Perforated Square Steel Tube Anchor and Post		

Note: The sign centroid is equivalent to $L + h/2$, (length of the longest post from the ground to the bottom of the sign plus the half the height of the sign.) and the Sign Area Yielding Design is the maximum area that the corresponding sign can have without failure. Sign Area is equivalent to $b \times h$.

POST LOADING FOR PERFORATED SQUARE STEEL TUBE POSTS						
SIGN CENTROID (FT)	SIGN AREA (SQ-FT) YIELDING DESIGN					
	TYPE 1 TYPE 2	TYPE 3/TYPE 4 (SLIP BASE REQUIRED)				
		2 1/2" x 12ga		2 1/4" x 12ga inserted into a 2 1/2" x 12 ga		
		1 Post	2 Post	3 Post	1 Post	2 Post
16.5	10.44	20.88	31.32	18.78	37.56	56.34
16	10.76	21.52	32.28	19.36	38.72	58.08
15.5	11.11	22.22	33.33	19.99	39.98	59.97
15	11.48	22.96	34.44	20.65	41.3	61.95
14.5	11.87	23.74	35.61	21.36	42.72	64.08
14	12.3	24.6	36.9	22.13	44.26	66.39
13.5	12.75	25.5	38.25	22.95	45.9	68.85
13	13.24	26.48	39.72	23.83	47.66	71.49
12.5	13.77	27.54	41.71	24.78	49.56	74.34
12	14.35	28.7	43.05	25.82	51.64	77.46
11.5	14.97	29.94	44.91	26.94	53.88	80.82
11	15.65	31.3	46.95	28.16	56.32	84.48
10.5	16.4	32.8	49.2	29.5	59	88.5
10	17.22	34.44	51.66	30.98	61.96	92.94
9.5	18.12	36.24	54.36	32.61	65.22	97.83
9	19.13	38.26	57.39	34.42	68.84	103.26
8.5	20.26	40.52	60.78	36.45	72.9	109.35
8	21.52	43.04	64.56	38.72	77.44	116.16



- ① Adapted from AASHTO Standard Specifications for - Highway Signs, Luminaires, and Traffic Signals. 6th Edition 2013. <Rev B 4/7/14>
- ② 90 MPH Wind Load

	REVISION	
	-	00-00-00
	TAS STANDARD	
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REVISION: __		
Support Structures - Perforated Square Steel Tube Anchor and Post		

52-49-0 M001
52-49-2 M101

4.0" Radius, 1.0" Border, White on Blue;
"SCENIC", D 2K;
"AREA", D 2K;
"¼ MILE", D 2K;

52-49-2 M103

4.0" Radius, 1.0" Border, White on Blue;
"SCENIC", D 2K;
"AREA", D 2K;
Arrow III-6L - 14.0" 0°;

52-49-1A M001

4.0" Radius, 1.0" Border, White on Blue;
"SCENIC", D 2K;
"AREA", D 2K;
Arrow III-6L - 14.0" 180°;

52-49-2 M102

1.0" Border, 1.8" Indent, RGB(3,97,122) on White;
Welcome to RGB (3,97,122);
IOWA RGB (3,97,122) (198, 214,103) (224,166,36);
FREEDOM TO FLOURISH RGB (3,97,122);

SIGN DETAILS
US 52

105_04 10/21/25 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
SI-101	04-19-16	Locations - Type 'A' Signs
SI-102	04-19-16	Locations - Type 'B' Signs
SI-112	04-19-16	Footings For Steel Breakaway Posts
SI-113	10-15-19	Support Structures - Steel Breakaway Posts
SI-121	10-16-18	Fabrication - Sign Legend Components
SI-123	10-20-20	Fabrication - Type 'B' Signs
SI-131	10-18-16	Installation - Type 'A' Signs
SI-132	04-17-18	Installation - Type 'B' Signs
SI-133	10-17-17	Installation - Type 'A' Sign Shim
SI-171	04-18-17	Reference Location Sign Posts

111_25 4/30/25 INDEX OF TABULATIONS			
Line No.	Tabulation	Tabulation Title	Sheet No.
1.0	105_04	STANDARD ROAD PLANS	N.8
2.0	110_13	DELIVERY AND STOCKPILING	N.8
3.0	111_25	INDEX OF TABULATIONS	N.8
4.0	190_25	REFERENCE LOCATION SIGNS AND DELINEATORS	N.9
5.0	190_50	MATERIALS FOR TYPE B SIGNS	N.9
6.0	190_51	MATERIALS FOR TYPE A SIGNS	N.10
7.0	190_62	EXISTING SIGNS TO BE REMOVED	N.11
8.0	190_65	SPECIAL SIGN MOUNTING BRACKETS	N.11
9.0	190_66	SUMMARY OF TYPE A SIGNS	N.11
10.0	259_01	SIGNING NOTES	N.12

110_13 8/15/22 DELIVERY AND STOCKPILING							
Line No.	Item Description	Quantity	Quantity Units	Delivery Location	Contact Name	Contact Number	Remarks
1.0	Removed Type A Signs	1	Each	2983 Iowa 62	Kerry Burzlaff	563-582-3063	
2.0				Maquoketa, IA 52060			

190_25 2/10/23																						
REFERENCE LOCATION SIGNS AND DELINEATORS																						
Refer to SI-171, SI-172 and SI-173.																						
Line No.	Station From	Station To	Location	Reference Location Sign Type	Quantity (EA)	Enhanced Reference Location Sign Type	Quantity (EA)	Intermediate Reference Location Sign Type	Quantity (EA)	Type I Delineator White (EA)	Type I Delineator Yellow (EA)	Type IA Delineator White (EA)	Type IA Delineator Yellow (EA)	Type II Delineator White (EA)	Type II Delineator Yellow (EA)	Type III Delineator White (EA)	Type III Delineator Yellow (EA)	Object Marker Type 1 (EA)	Object Marker Type 2 (EA)	Object Marker Type 3 (EA)	Installation Type	Installation Offset
1.0	1452+30.00	1452+30.00	US 52	D10-1	2																1	8.0
2.0	1471+70.00	1471+70.00	US 52	D10-5	2																1	8.0
3.0	1471+70.00	1471+70.00	US 52	D10-1	2																1	8.0
4.0	1471+70.00	1471+70.00	US 52	D10-7	2																1	8.0
5.0	1471+70.00	1471+70.00	US 52	D10-9	2																1	8.0
6.0	1527+80.00	1527+80.00	US 52	D10-5	2																1	8.0
7.0	1527+80.00	1527+80.00	US 52	D10-1	2																1	8.0
Total:					14																	

190 50 3/24/25																																		
MATERIALS FOR TYPE 'B' SIGNS																																		
Line No.	Number	Route	County	Exit Number	Road ID	Seq. No.	Dir of Travel	Sign Location Station	Fab Info	Sign Width (FT)	Sign Height (FT)	New Area (SF)	4x6 L (FT)	4x6 M (FT)	4x6 R (FT)	Perf. Sq. Steel L (FT)	Perf. Sq. Steel M (FT)	Perf. Sq. Steel R (FT)	Perf. Sq. Anchor Type	Anchor Quantity (EA)	W8x21 L (FT)	W8x21 M (FT)	W8x21 R (FT)	Footing 2'8"x7'6" (EA)	W12x26 L (FT)	W12x26 M1 (FT)	W12x26 M2 (FT)	W12x26 R (FT)	Footing 2'8"x9' (EA)	Install Type	Install Dim 'X'	Install Dim 'Y'	See Signing Notes	Remarks
1.0		52	49	1A	M	001	NB	1453+00.00	NEW	3.0	3.0	9.0				15.0		15.0	Slip	2										1	18.0	7.0	IB PP	
2.0		52	49		M	001	NB	1544+75.00	NEW	3.0	3.0	9.0				15.0		15.0	Slip	2										1	18.0	7.0	IB PP	
3.0		52	49	2	M	101	SB	1468+00.00	NEW	3.0	3.0	9.0				15.0		15.0	Slip	2										1	18.0	7.0	IB PP	
4.0		52	49	2	M	102	SB	1458+50.00	NEW	8.0	7.0	56.0									19.4		17.0	2						1	18.0	7.0	IB PB	
5.0		52	49	2	M	103	SB	1455+50.00	NEW	3.0	3.0	9.0				15.0		15.0	Slip	2										1	18.0	7.0	IB PP	
Total:												110			60			60			8	19.4		17		2								

190 51
2/10/23

MATERIALS FOR TYPE 'A' SIGNS

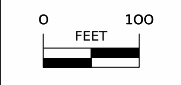
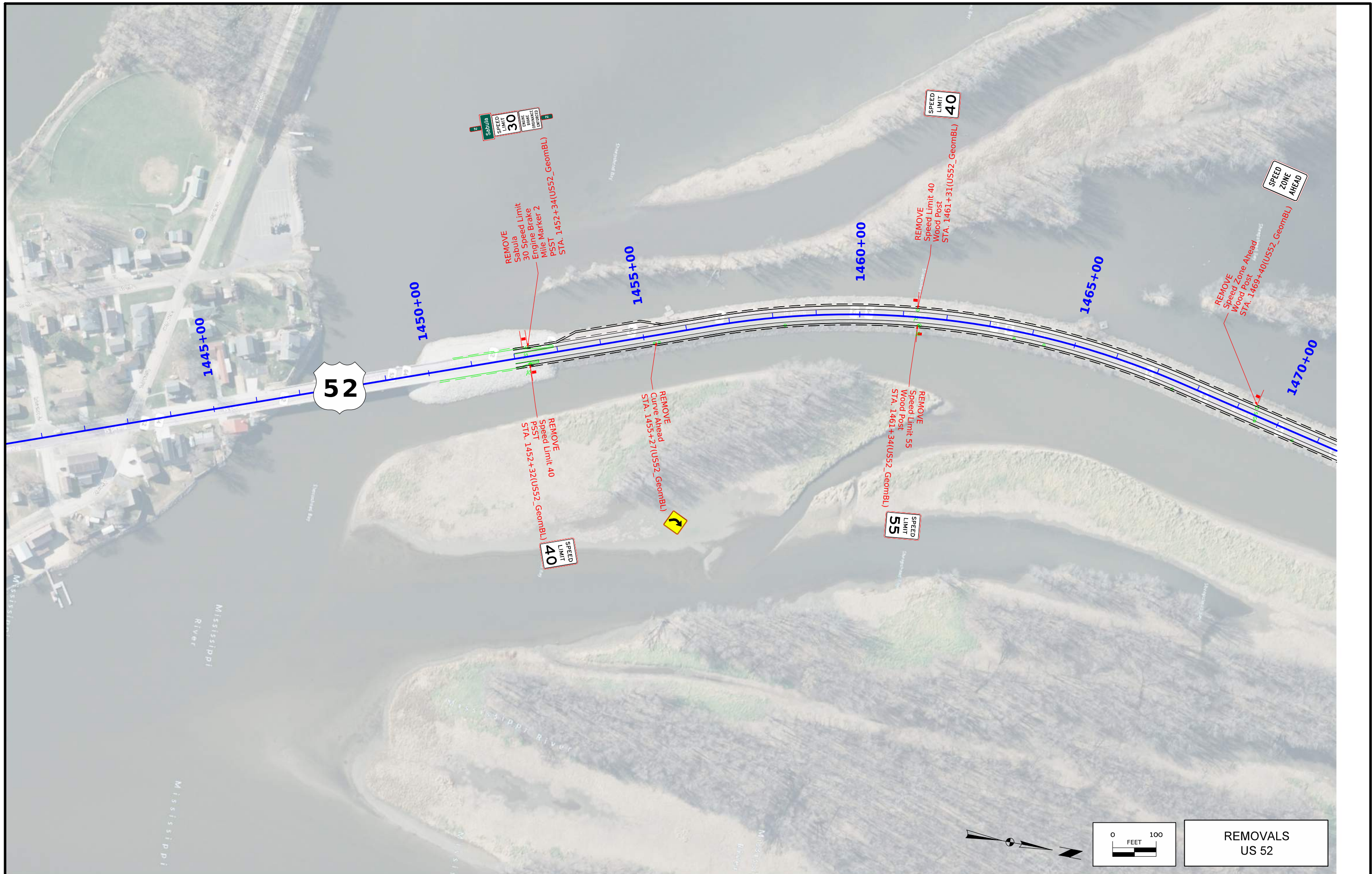
Refer to SI-101, SI-111, SI-119 and N Sheets.

Line No.	Type A Signing Typicals	Sign Number	Dir. of Travel	Sign Location Station	Wood Posts (No.)	4 x 6 Leg 1 (FT)	4 x 6 Leg 2 (FT)	Perf. Sq. Steel Leg 1 (FT)	Perf. Sq. Steel Leg 2 (FT)	Perf. Sq. Steel Leg 3 (FT)	Perf. Sq. Anchor Type	Anchor Quantity (EA)	Steel Rect. Tube (No)	Steel Rect. Tube (FT)	Rect. Tube Anchors (EA)	Type A Bracket One Post	Type A Bracket Two Post	Type A Bracket Auxiliary	Type A Bracket (H)	Type A Bracket (F)	Type A Bracket (F1)	Install. Type	Install. Dim X (FT)	Install. Signing Notes	Remarks
1.0		R2-1	NB	1452+00.00					16.0		Slip	1										1	12.0	IA PP	Nested
2.0		W1-2R	NB	1455+25.00					15.0		Slip	1										1	12.0	IA PP	Nested
3.0		R2-1	NB	1461+25.00					16.0		Slip	1										1	12.0	IA PP	Nested
4.0		W14-3	NB	1539+00.00				16.0		16.0	Slip	2										1	12.0	IA PP	
5.0		W3-5	NB	1539+75.00					15.0		Slip	1										1	12.0	IA PP	Nested
6.0		R2-1	NB	1545+75.00					16.0		Slip	1										1	12.0	IA PP	Nested
7.0		R2-1	SB	1545+75.00					16.0		Slip	1										1	12.0	IA PP	Nested
8.0		W14-3	SB	1482+50.00				16.0		16.0	Slip	2										1	12.0	IA PP	
9.0		W1-2L	SB	1474+00.00					15.0		Slip	1										1	12.0	IA PP	Nested
10.0		W3-5	SB	1469+50.00					15.0		Slip	1										1	12.0	IA PP	Nested
11.0		R2-1	SB	1461+50.00					16.0		Slip	1										1	12.0	IA PP	Nested
12.0		12-A	SB	1453+00.00					20.0		Slip	1										1	12.0	IA PP	Nested
13.0		R2-1	SB	1453+00.00																		1	12.0	IA	
14.0		R5-7	SB	1453+00.00																		1	12.0	IA	
Total:								32	160	32		14													

EXISTING SIGNS TO BE REMOVED											190_62 2/13/23
Line No.	Sign Number or Description	Location Station	Direction of Travel	Type 'A' Sign Assembly (RA) (EA)	Type 'B' Sign Assembly (RB) (EA)	Type 'A' Remove and Reinstall (RR) (EA)	Type 'B' Remove and Reinstall (RR) (EA)	Concrete Foundation (RF) (EA)	Support Structure & Foundation (RS) (EA)	Applicable Signing Notes	Remarks
1.0	Speed Limit 40	1452+32.00	NB	1						RA	
2.0	Curve Ahead	1455+27.00	NB	1						RA	
3.0	Speed Limit 55	1461+34.00	NB	1						RA	
4.0	No Passing Zone	1539+00.00	NB	1						RA	
5.0	Speed Zone Ahead	1539+74.00	NB	1						RA	
6.0	Scenic Area 1/4 Mile	1544+80.00	NB	1						RA	
7.0	Speed Limit 40	1545+78.00	NB	1						RA	
8.0	Speed Limit 55	1545+81.00	SB	1						RA	
9.0	Mile Marker 1	1527+77.00	SB	1						RA	
10.0	Curve Ahead	1473+88.00	SB	1						RA	
11.0	Mile Marker 1A	1471+68.00	SB	1						RA	
12.0	Speed Zone Ahead	1469+40.00	SB	1						RA	
13.0	Speed Limit 40	1461+31.00	SB	1						RA	
14.0	City/Speed Assembly	1452+34.00	SB	1						RA	
Total:				14							

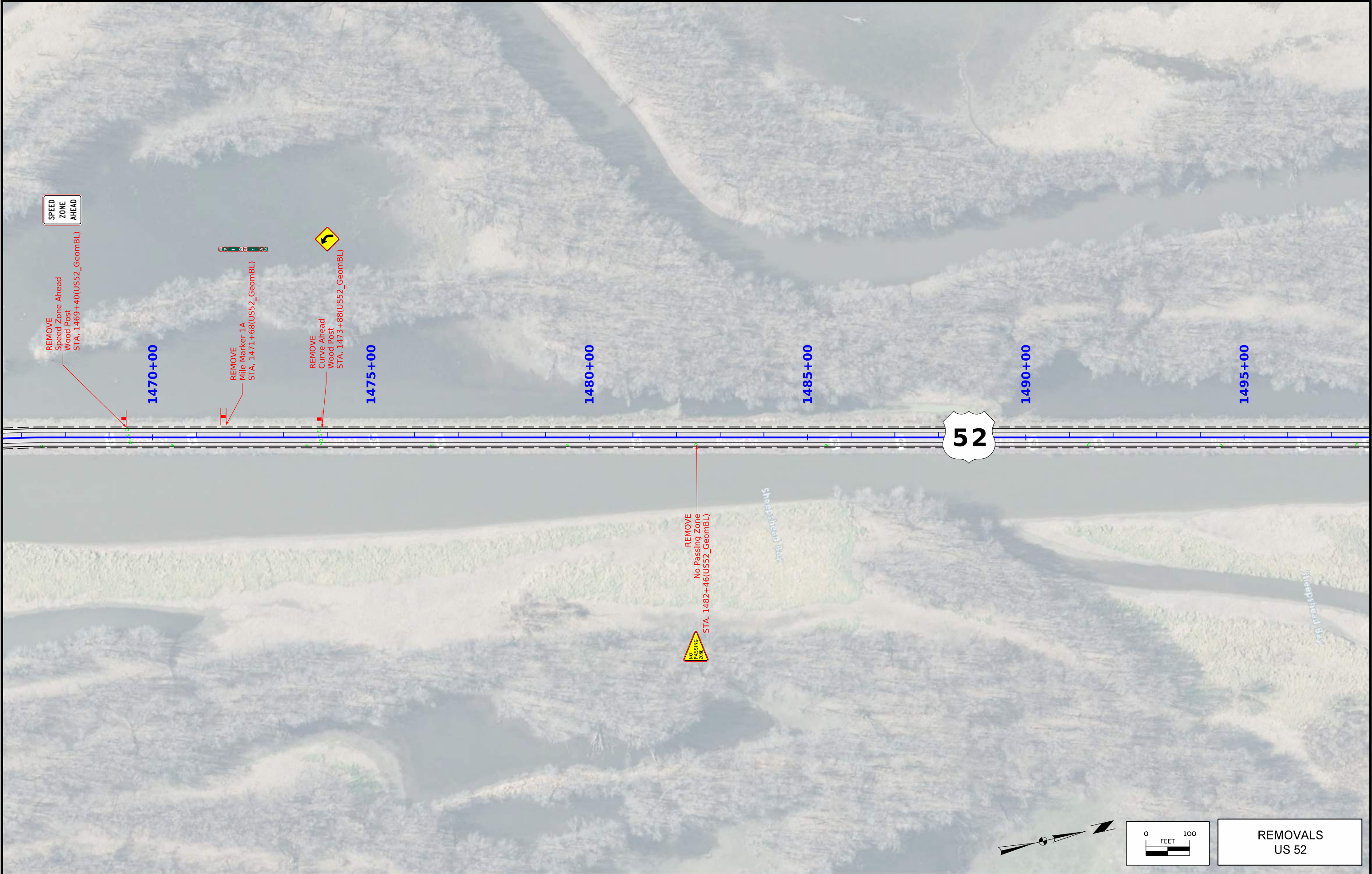
SUMMARY OF TYPE 'A' SIGNS						190_66 9/29/23
Line No.	Sign Number	Non-Standard Sign Number or Name	Quantity (EA)	Size (IN)	Total Sign Area (SF)	
1.0		12-A	1	36 X 16	4.0	
2.0	R2-1		6	36 X 48	72.0	
3.0	R5-7		1	30 X 30	6.3	
4.0	W1-2L		1	36 X 36	9.0	
5.0	W1-2R		1	36 X 36	9.0	
6.0	W3-5B		2	36 X 36	18.0	
7.0	W14-3		2	48 X 60 X 60	40.0	
Total:					158.3	

259_01 9/28/22 SIGNING NOTES The following tolerances will be allowed on all signs: Accumulation error of not greater than +/-0.50" per line of copy, not greater than +/-0.50" for spacing between lines of copy, and the margin between lines of copy and the inside edge of the sign border. The following tolerances will be allowed on each letter or numeral: <table><tr><td>nominal height</td><td>variation in height</td><td>variation in width</td></tr><tr><td>4" thru 12"</td><td>-1/8" to +3/8"</td><td>-1/4" to +1/4"</td></tr><tr><td>over 12"</td><td>-1/8" to +3/8"</td><td>-3/8" to +3/8"</td></tr></table> ----- Type B signs can be separated into two categories: - Major Guide Signs. - Minor Guide Signs. Major Guide Signs include the advance and exit direction guide signs for an interchange or intersection. Minor Guide Signs include all other guide signs such as NEXT EXIT signs, supplemental guide signs, logo signs, exit gore signs, post-interchange mileage signs, ramp destination signs, and ramp logo signs for an interchange, as well as destination signs along sideroads. Type A signs are not separated into categories, but special consideration should be given to regulatory signs. Do not remove Type B signs until replacement signs have been installed. If construction activities require the removal of a sign, the existing sign may be relocated to temporary posts, or a temporary plywood sign may be installed to replace the existing sign. Existing non-regulatory Type A signs are NOT required to remain in place until installation of replacement signs. Existing regulatory Type A signs, particularly Stop signs, should not be removed until replacement signs are installed. This guideline may not apply if the traffic control plans have sufficient temporary signing. Apply the following during the replacement or modification of signs: - No more than one of the major guide signs for each direction of travel at an interchange out of service at any one time. - No major guide sign out of service for more than 8 hours. - No minor guide out of service for more than 24 hours. Remove existing signs and posts within 24 hours following the installation of a new replacement sign. In any case where the plans call for a new sign and posts to be installed at the same station location and offset as an existing sign, install the new posts at a minimum of either 5 ft ahead or behind the existing sign installation. Whenever posts for a replacement sign are erected directly in front of an existing sign, install the new replacement sign and remove the existing sign installation within 24 hours of the time that the new posts are erected. Where signs are located behind guardrail, locate the near edge of the sign a minimum of 3 ft behind the guardrail posts. The Engineer may approve reducing this distance to a minimum of 1 ft where field conditions warrant. Unless noted otherwise, leave auxiliary panels, such as exit number panels, in place or reattach to the sign using the existing mounting hardware. Also, when replacing an existing logo sign with a new logo sign, remove the business logo panel(s) from the existing sign and attach to the new sign as directed by the Engineer. Do not damage the auxiliary or logo panels when removing and reattaching them. This work is incidental to other				nominal height	variation in height	variation in width	4" thru 12"	-1/8" to +3/8"	-1/4" to +1/4"	over 12"	-1/8" to +3/8"	-3/8" to +3/8"	259_01 9/28/22 SIGNING NOTES work and no separate payment will be made. The following notes apply to the corresponding sign installations shown on the plan sheets and listed in the tabulations. IB INSTALL NEW TYPE B SIGN IA INSTALL NEW TYPE A SIGN Install new signs at the location identified in the plans. For installation of new signs on existing posts: - if the new sign is taller than the existing sign, furnish the necessary hardware to extend the sign above the posts. Refer to Standard Road Plan SI-132. - if the new sign is shorter that the existing sign: - for wood posts and perforated square tube posts, install the sign at the proper height and cut off the excess post length. - for steel posts, install the sign at the top of the posts. For installation of new signs on an existing sign support structure, refer to note (L). Payment for installing Type A signs or Type B signs includes furnishing hardware for mounting, extending signs above existing posts, and cutting off wood posts. MS MODIFY EXISTING SIGN Modify the copy on the existing sign as shown in the plans. Deliver existing copy which is removed to a DOT storage area within 50 mi, as designated by the Engineer. Install the new copy as needed to make sign modifications. Payment for Modification of Existing Sign includes removal of existing copy and installation of new copy. MB INSTALL SPECIAL MOUNTING BRACKET Install special mounting brackets at the locations identified in the plans. Refer to Tabulations 190-10, 190-51, and/or 190-65. PW INSTALL NEW WOOD POSTS PB INSTALL NEW BREAKAWAY STEEL POSTS AND FOOTING PP INSTALL NEW PERFORATED SQUARE TUBE POSTS AND ANCHORS Install new wood posts, breakaway steel posts and footings, or perforated square tube posts and anchors at the locations indicated in the plans. Refer to Tabulations 190-51 and 190-50 for post size and footing information. If note (RR) accompanies (PW), (PB), or (PP), install an existing sign on the new posts. RR REMOVE AND REINSTALL SIGN: Do not remove existing major Type B guide signs on posts until the new posts are installed. Promptly remove sign and install at the new location. Existing major Type B guide signs on overhead support structures, minor Type B guide signs, plywood signs, and Type A signs may be removed and stored. Transport the signs to a DOT storage area within 50 mi, as designated by the Engineer. Transport the signs back to the job site when ready for installation at the new location. Replace signs damaged by the Contractor's activities at no additional cost to the Contracting Authority.				259_01 9/28/22 SIGNING NOTES Payment for Remove and Reinstall Sign includes sign removal, delivery to the DOT storage area (if applicable), and reinstallation. RA REMOVE TYPE A SIGN ASSEMBLY RB REMOVE TYPE B SIGN ASSEMBLY Type A Sign Assembly consists of one or more signs installed on one or more wood posts, either directly mounted to the post or mounted to the post with special sign mounting brackets. Type B Sign Assembly consists of the main sign, all auxiliary signs and brackets, and the wood or steel posts. Unless stated otherwise in the plans, remove all posts with the signs and brackets. Remove each sign assembly identified in the plans. Sign posts removed become the property of the Contractor. All other materials removed remain the property of the DOT. Disassemble each sign assembly removed before delivering to the DOT. For Type A sign assemblies, unbolt all signs, special mounting brackets, and posts from each other. For Type B assemblies, unbolt all extruded aluminum panels, brackets, and posts from each other. Do not damage the disassembled materials. Place backfill in holes remaining from the removal of wood posts and restore to the normal surrounding conditions. Deliver the removed signs, special sign mounting brackets, and extruded aluminum panels to a DOT storage area within 50 mi, as designated by the Engineer. The concrete footings for steel posts are not considered part of the sign assembly. Refer to note RF for concrete footing removal. Payment for Removal of Type A Sign Assembly or Removal of Type B Sign Assembly includes sign assembly removal and disassembly, post removal (if applicable), delivery to the DOT storage area, placing backfill in holes, and restoration of the surrounding conditions. RF REMOVE EXISTING CONCRETE FOOTING FOR STEEL POST Remove existing concrete footings to a depth of 1 ft below ground. Place backfill in holes remaining from removal and restore to the normal surrounding conditions. This work is incidental to other work and no separate payment will be made. RS REMOVE EXISTING TYPE B SIGN SUPPORT STRUCTURE The following are considered Type B Sign Support Structures: - Overhead sign truss and foundation, - Cantilevered sign truss and foundation, or - Bridge mounted brackets. For removal purposes, wood and steel post are not considered Type B Support Structures. Unless stated otherwise in the plans, existing overhead trusses, cantilevered trusses, and bridge brackets which are removed become the property of the Contractor. If stated in the plans, deliver overhead trusses, cantilevered trusses, and bridge brackets to a DOT storage area within 50 mi, as designated by the Engineer. Payment for Removal of Sign Support Structure and Foundation includes sign support structure removal, delivery to the DOT storage area (if applicable), and restoration of the surrounding conditions. L MODIFY SIGN SUPPORT ANGLES NEEDED TO INSTALL SIGNS ON EXISTING SIGN SUPPORTS STRUCTURES Refer to the sign support structure details for information on the required angle brackets.				259_01 9/28/22 SIGNING NOTES Provided all specifications are met, the existing sign support angles may be reused. Install existing sign support angles to be reused only on the sign support structure from which they were removed. Sign support angles removed and not reused become the property of the Contractor. When reusing the existing sign support angles with a shorter replacement sign, the sign support angles may need to be trimmed. Refer to the sign support details to determine if and where to trim the sign support angles. Do not use existing fasteners. Use new stainless steel bolts and nuts to install the existing or new sign support angles to the sign support structure. Removal of existing sign support angles is incidental to removal of the sign. Reinstalling and/or modifying existing sign support angles; furnishing and installing new sign support angles (if required); and furnishing and installing new fasteners is incidental to work associated with Type B signs. SIGN INSTALLATION QUALITY CONTROL NOTES Post lengths have been derived from the proposed grading cross sections. Field verify post lengths. Slight differences between the design template and the actual conditions should be expected. These variations should be resolved by doing some localized shaping and grading. Obtain material needed to meet the site requirements of SI-113 from the footing excavation and/or the area immediately adjacent to the footing. Ensure reshaping work does not substantially change foreslopes or the drainage in the vicinity of the sign. Significant differences between the design template and the actual field conditions need to be resolved in this manner: Survey the location and draw the actual template on the cross section. Recalculate each post length and compare to the maximum allowable leg length. If all of the maximum leg lengths are less than or equal to the maximum allowable leg length, then the proposed post design will be sufficient. If any leg is greater than the maximum allowable leg length, then submit the cross section with the actual template drawn (including offsets and elevation from the survey shown) to the Engineer. The Engineer may forward this information on to the design Engineer in order to complete a new post design. Install the footings, stub posts, and posts according to the following tolerances: -elevation difference from the edge of pavement to the bottom of the sign within 6 inches of the dimension shown. -elevation difference of less than 2 inches between the top of the highest post and the lowest post at a site. Footing construction is the controlling activity that substantially affects the quality of the site installation. Verify the elevation difference between the stubs is exactly the same as the elevation difference between the post lengths. If the Engineer requests, submit documentation detailing the site field shots in order to verify site installation.
nominal height	variation in height	variation in width																			
4" thru 12"	-1/8" to +3/8"	-1/4" to +1/4"																			
over 12"	-1/8" to +3/8"	-3/8" to +3/8"																			
FILE NO.	ENGLISH	DESIGN TEAM	Fobian\Stokes	JACKSON COUNTY	PROJECT NUMBER	STPN-052-1(113)--2J-49	SHEET NUMBER	N.12													

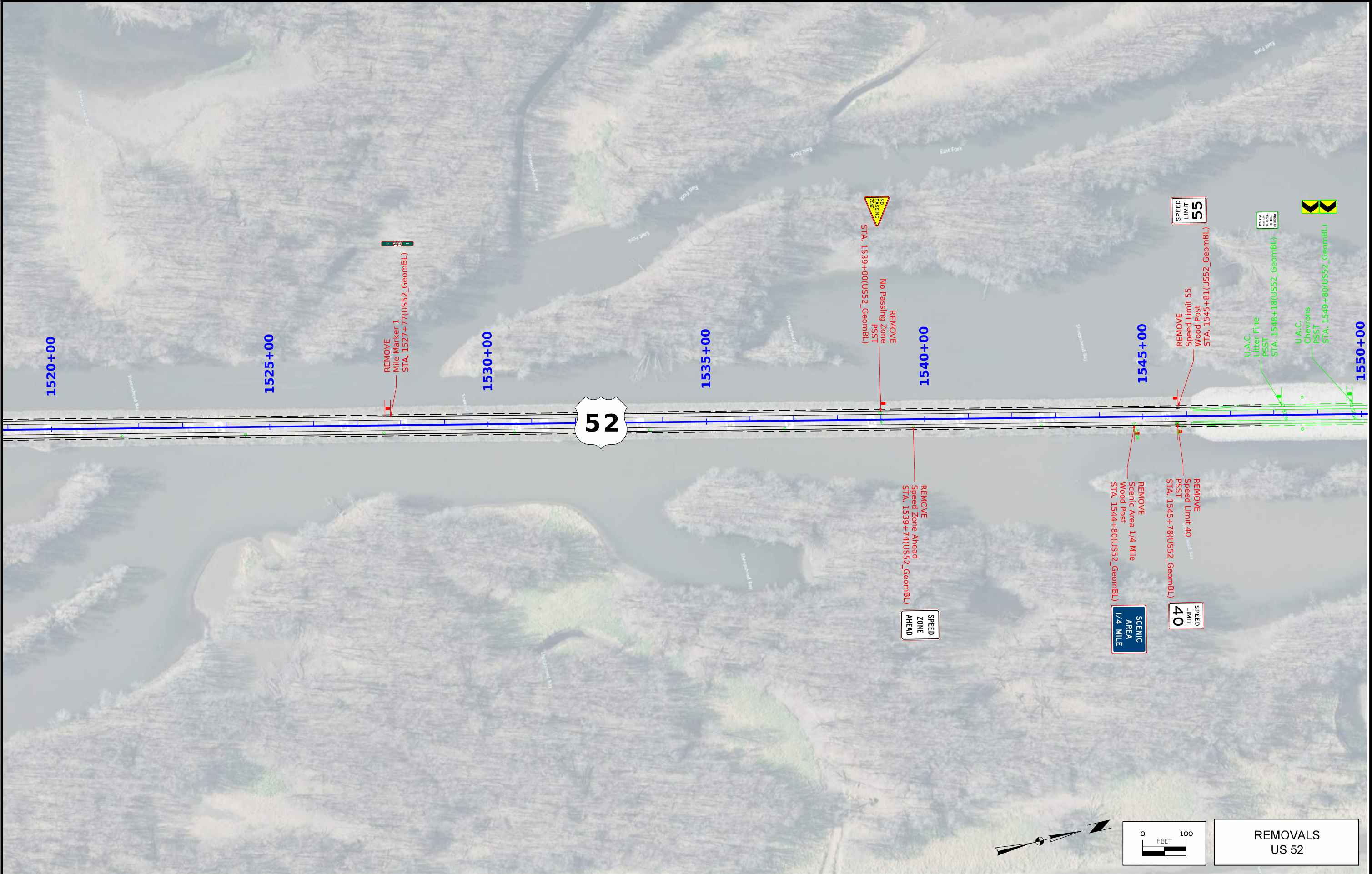


REMOVALS
US 52

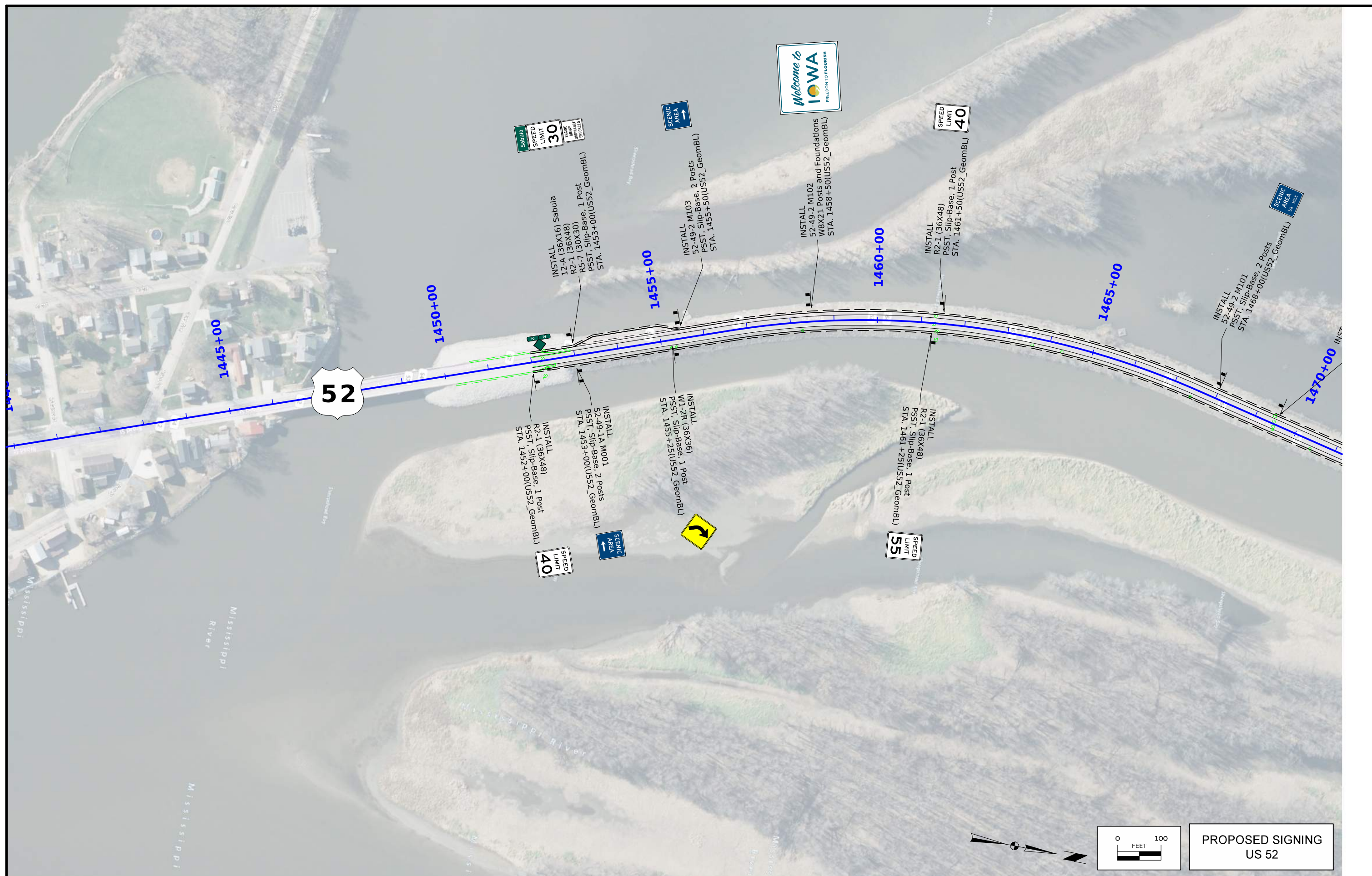
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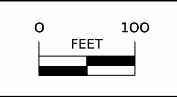
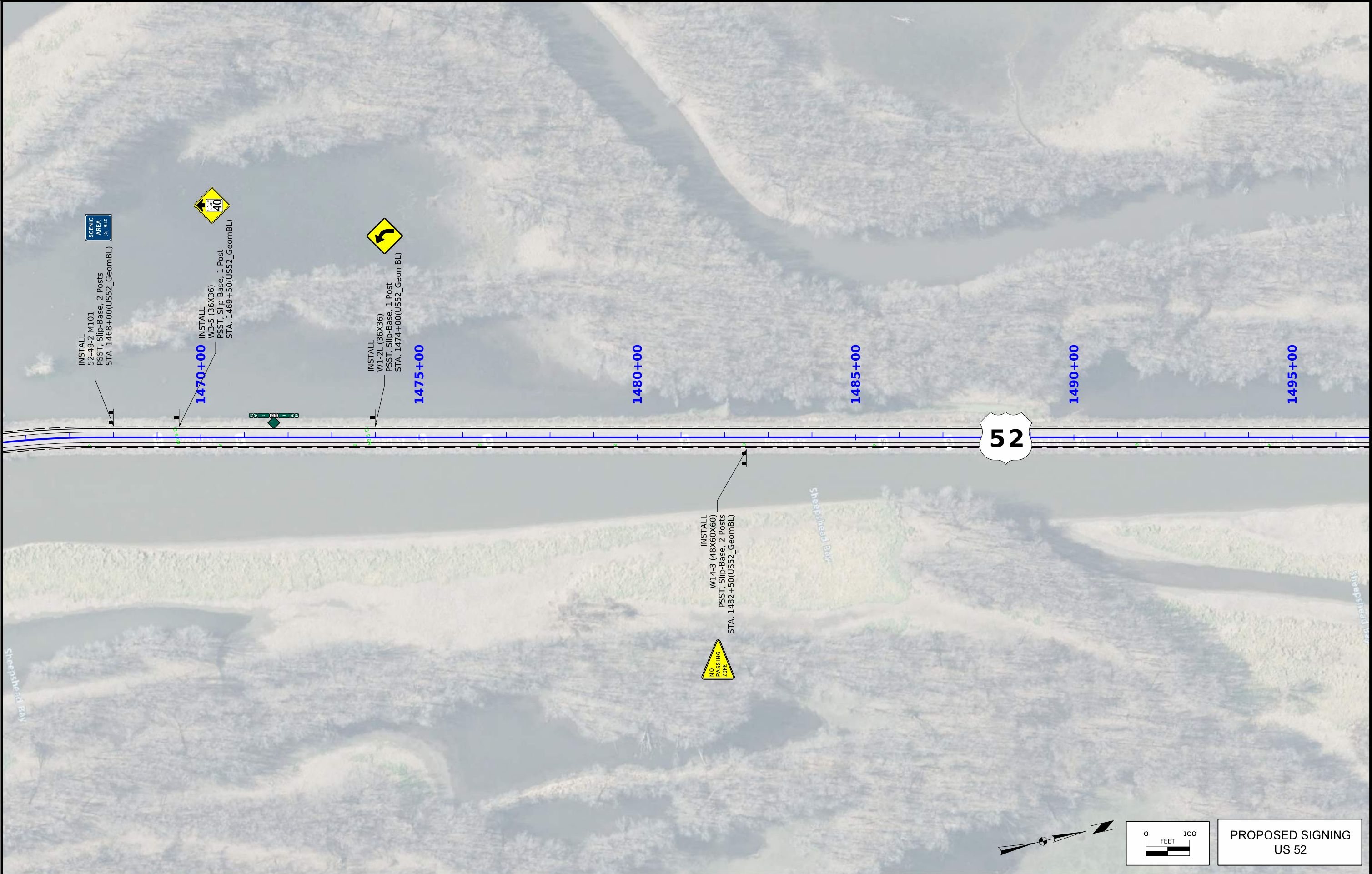


FILE NO. -	ENGLISH	DESIGN TEAM Fobian\Stokes	JACKSON COUNTY	PROJECT NUMBER STPN-052-1(113)--2J-49	SHEET NUMBER N.14
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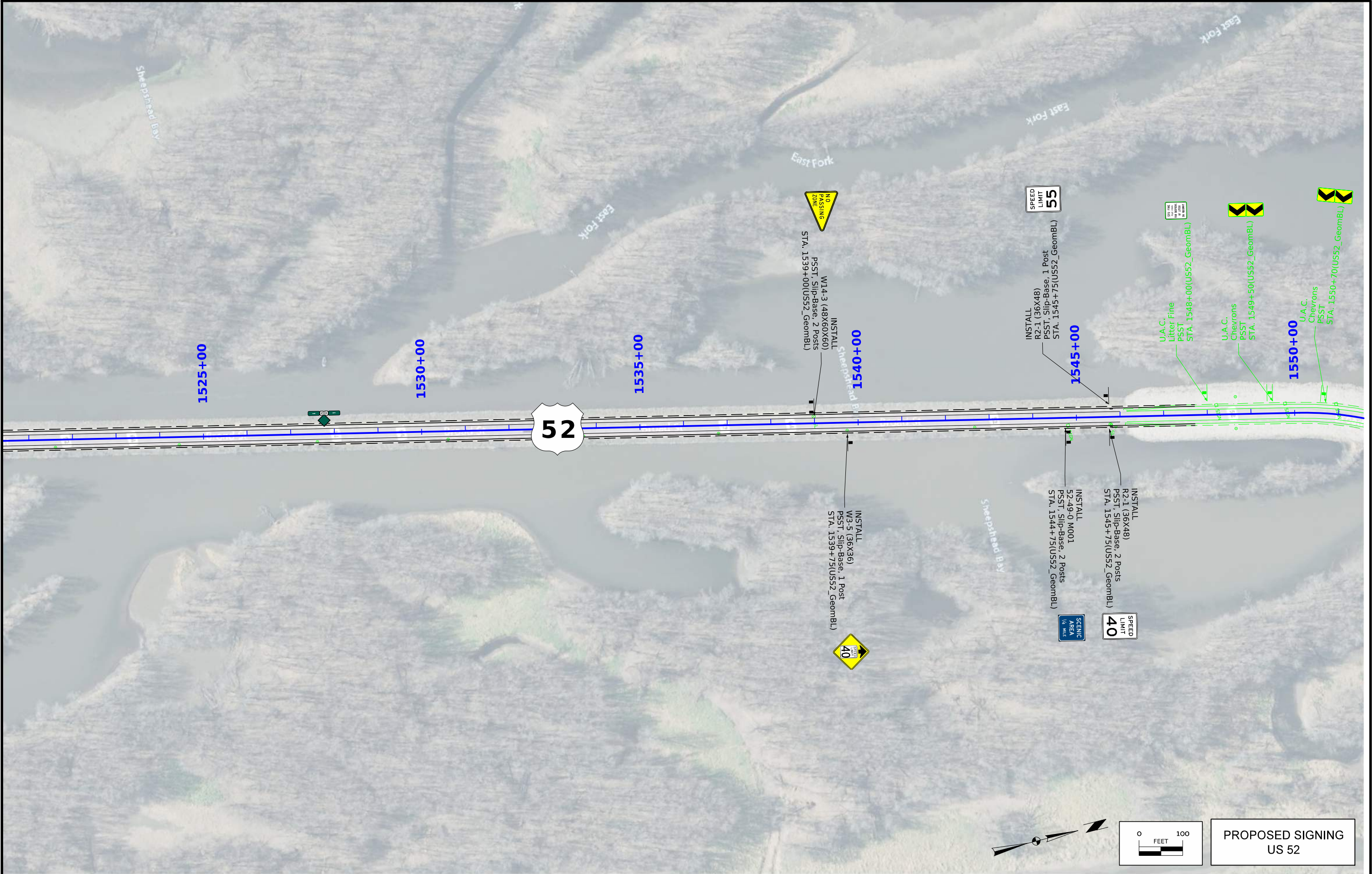
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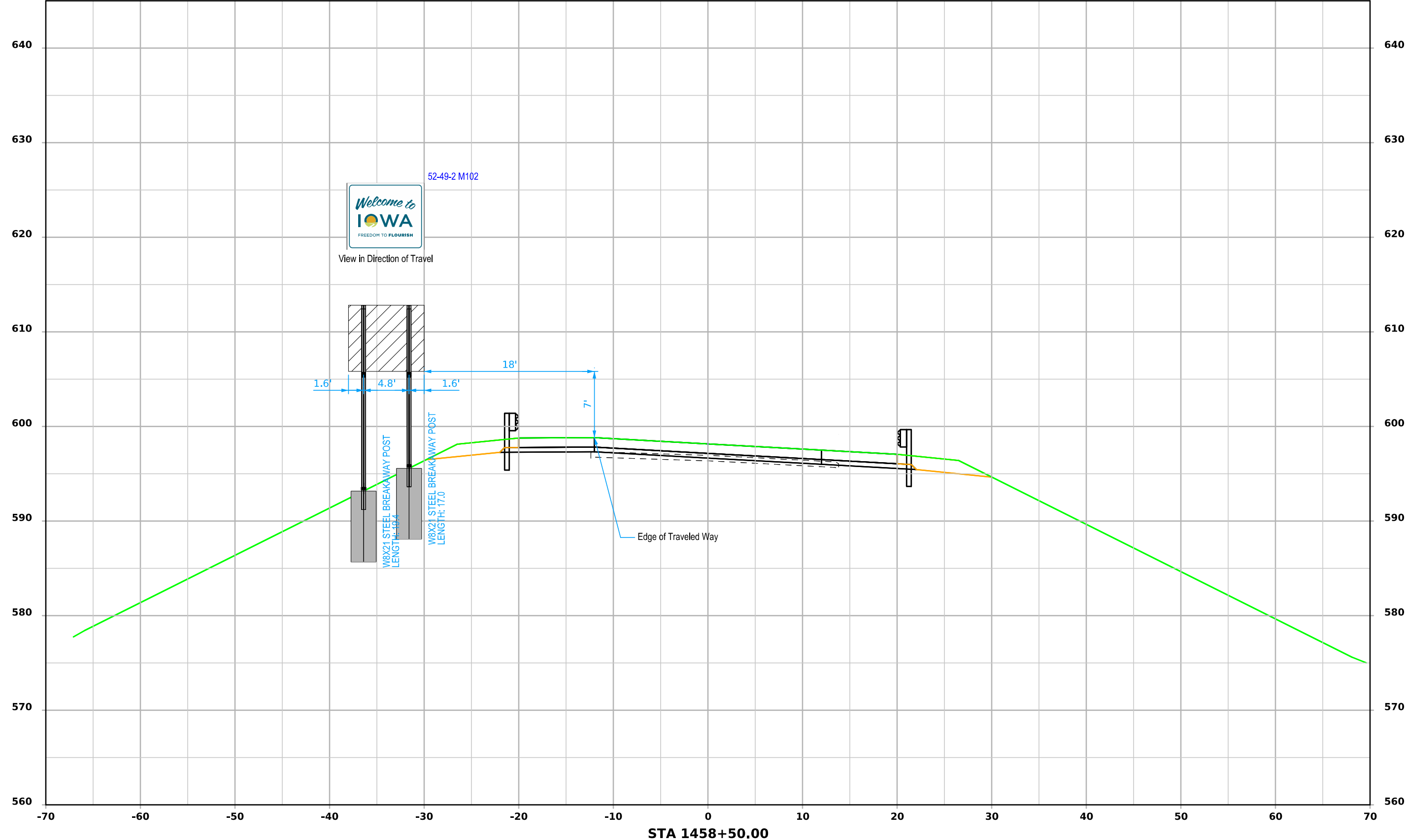




PROPOSED SIGNING
US 52

FILE NO. -	ENGLISH	DESIGN TEAM Fobian\Stokes	JACKSON COUNTY	PROJECT NUMBER STPN-052-1(113)--2J-49	SHEET NUMBER N.17
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Lithology Graphics

Pavement

USCS Poorly-graded Sand

USCS Well-graded Gravel with Clay

USCS Sandy Silt

USCS Low Plasticity Clay

USCS Poorly-graded Sand with Clay

USCS Well-graded Sandy Gravel

USCS Well-graded Gravel

USCS Low Plasticity Sandy Clay

USCS Silt

USCS Poorly-graded Sand with Silt

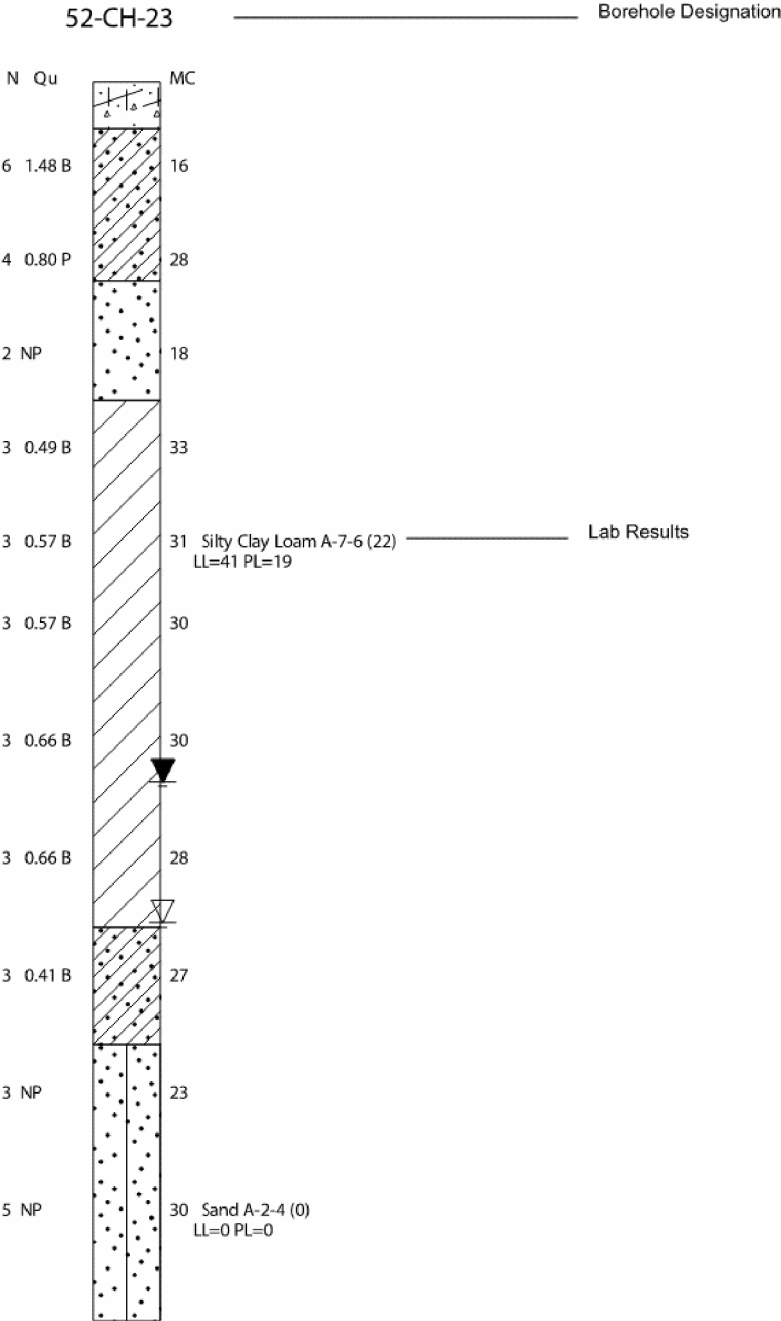
USCS Poorly-graded Gravelly Sand

Coarse sand

USCS Low Plasticity Silty Clay

USCS Silty Sand

USCS High Plasticity Clay



52-CH-25

Soil Boring and Designation

Water Level Reading at time of drilling.

Water Level Reading 24-hr after drilling or at end of drilling

N

N-value, (blw/12 in)

MC

Moisture Content, (%)

Qu

UC Strength, (tsf)

PLAN VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK		Design Color No.	
Green	(2)		Existing Topographic Features and Labels
Purple (Halo)	(15)		Backslope Drains
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING		Design Color No.	
Brown, Light	(236)		Core Out

PROFILE VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK		Design Color No.	
Blue	(1)		Proposed Alignment, Stationing, and Alignment Annotation
Green	(2)		Existing Ground Line Profile
Green, Med	(2)		Topsoil
Green, Med	(2)		Slope Dressing Only
Orange	(6)		Loam
Aqua (Cyan)	(7)		Class 10
Brown, Med	(4)		Sand
Red	(3)		Unsuitable A
Pink, Dark	(13)		Unsuitable B
Pink	(11)		Unsuitable C
Red	(3)		Shale
Red	(3)		Waste
Gray, Light	(48)		Broken and Weathered Rock
Gray, Med	(80)		Rock
Gray, V.Dark	(128)		Boulders

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

Drill

Dig/Core

Date(s) Drilled

Water

Dry

Sample

Plugged

Moisture

Shelby

Blow Count

Dens. Core

Treatment

Sand Blanket

Soil Remediation Area

Select Soil

Select Sand

Slope Dressing Only

Broken and Weathered Rock

Rock

Sandstone

Unsuitable A

Unsuitable B

Unsuitable C

Sandy Soil

Boulders

Shale

Reference Point

Station

Survey Line

Section Corner

Ground Line Intercept

Saw Cut

Guardrail

Clearing & Grubbing Area

Pavement Removal

RIGHT-OF-WAY LEGEND

Proposed Right-of-Way

Existing and Proposed Right-of-Way

Easement and Existing Right-of-Way

Borrow

Easement (Temporary)

Easement

Excess

Access Control

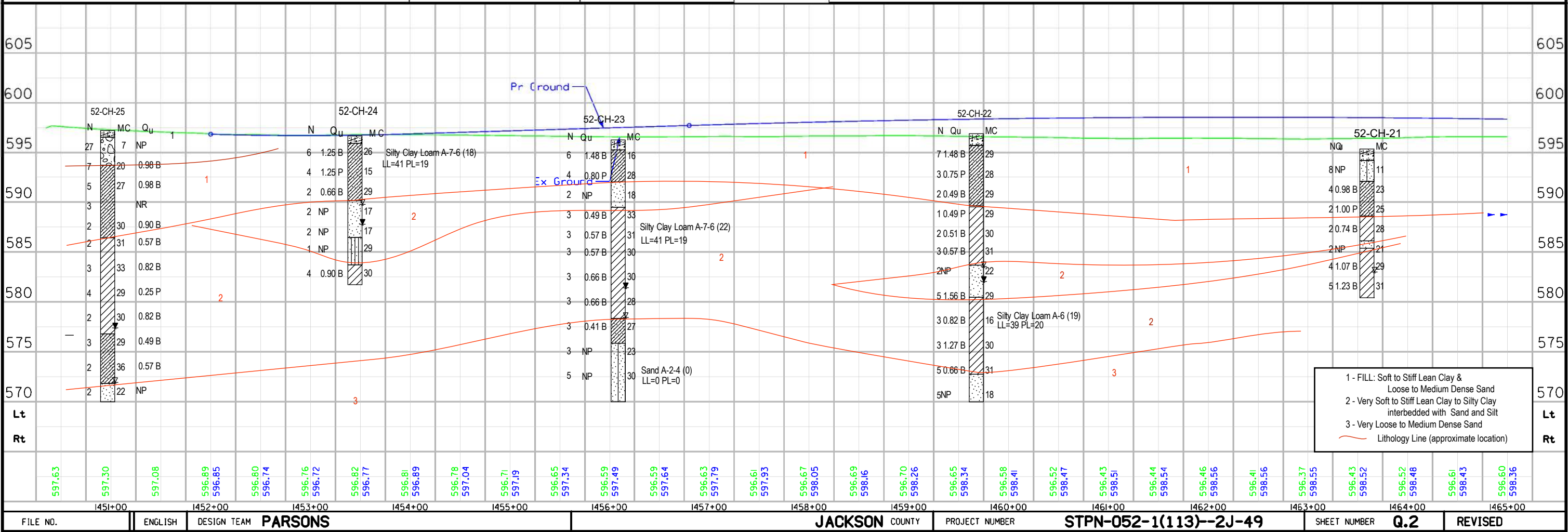
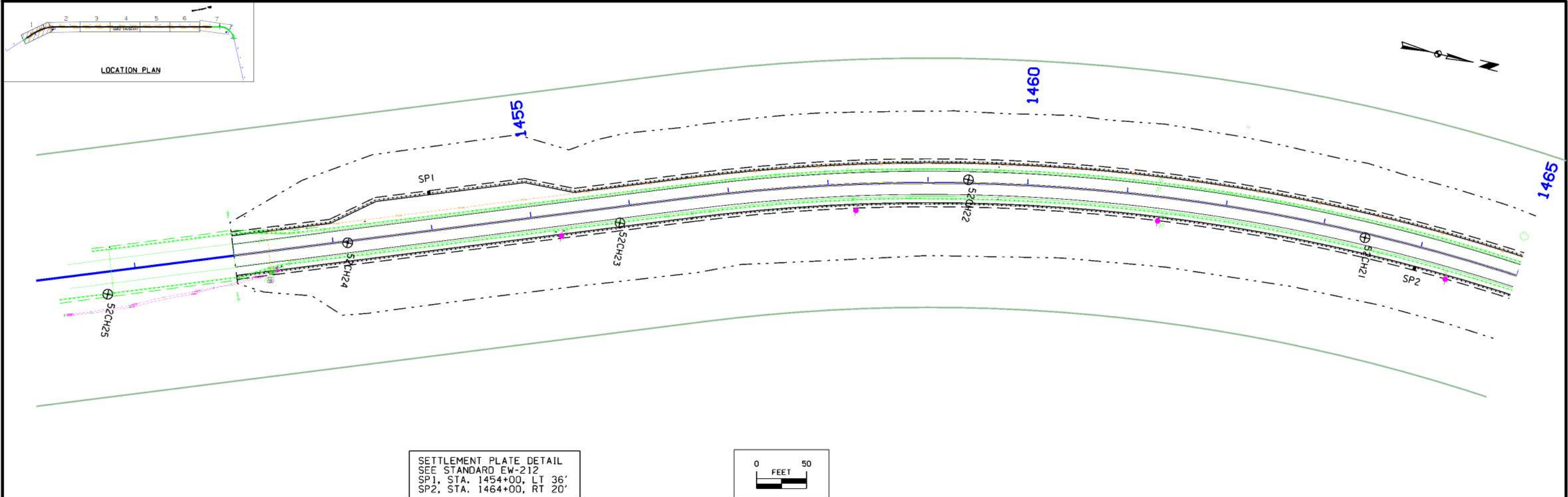
NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

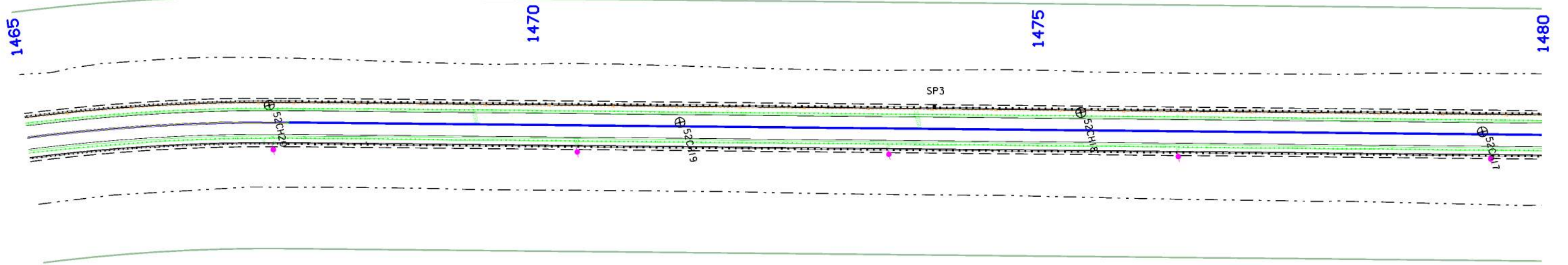
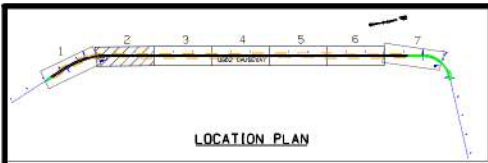
SOILS

LEGEND AND SYMBOL

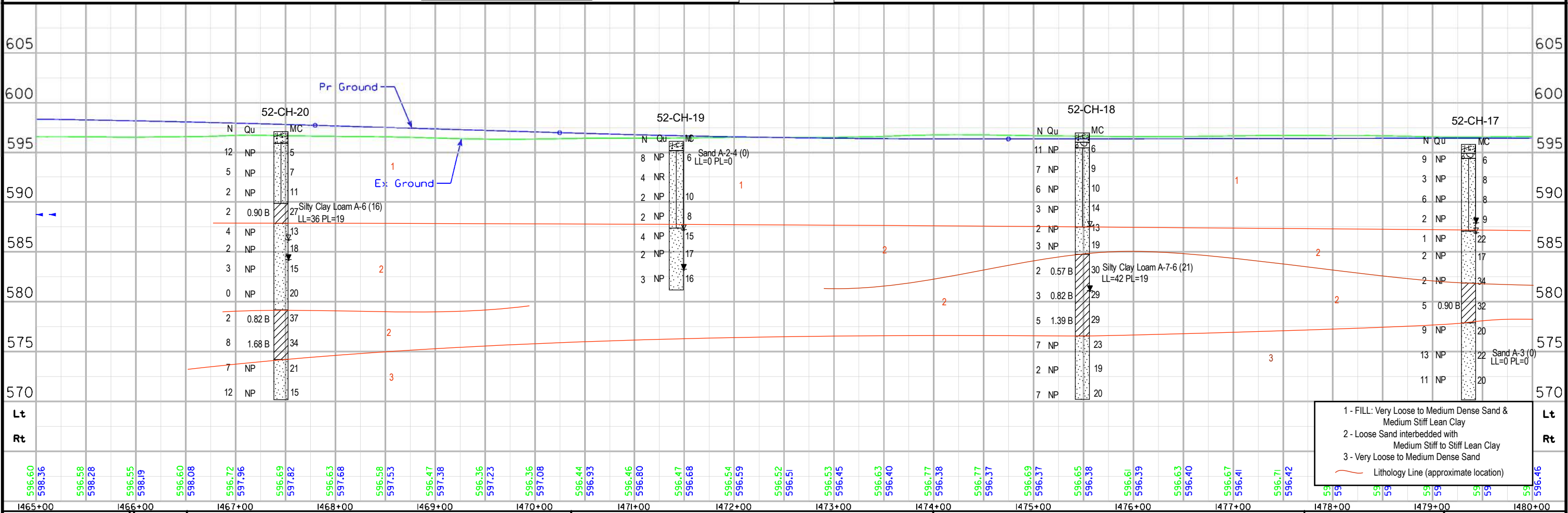
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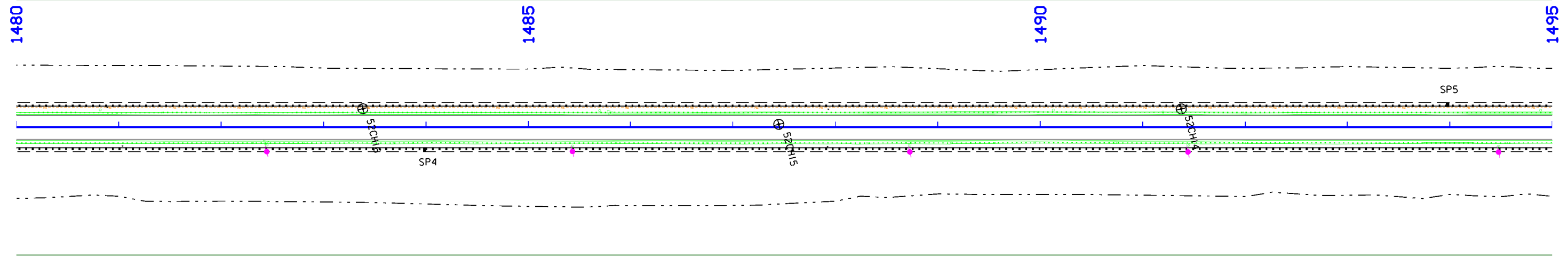
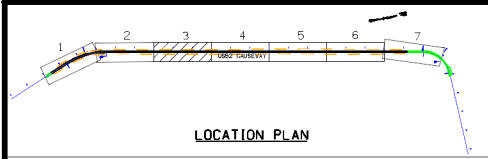
(COVERS SHEET SERIES Q)



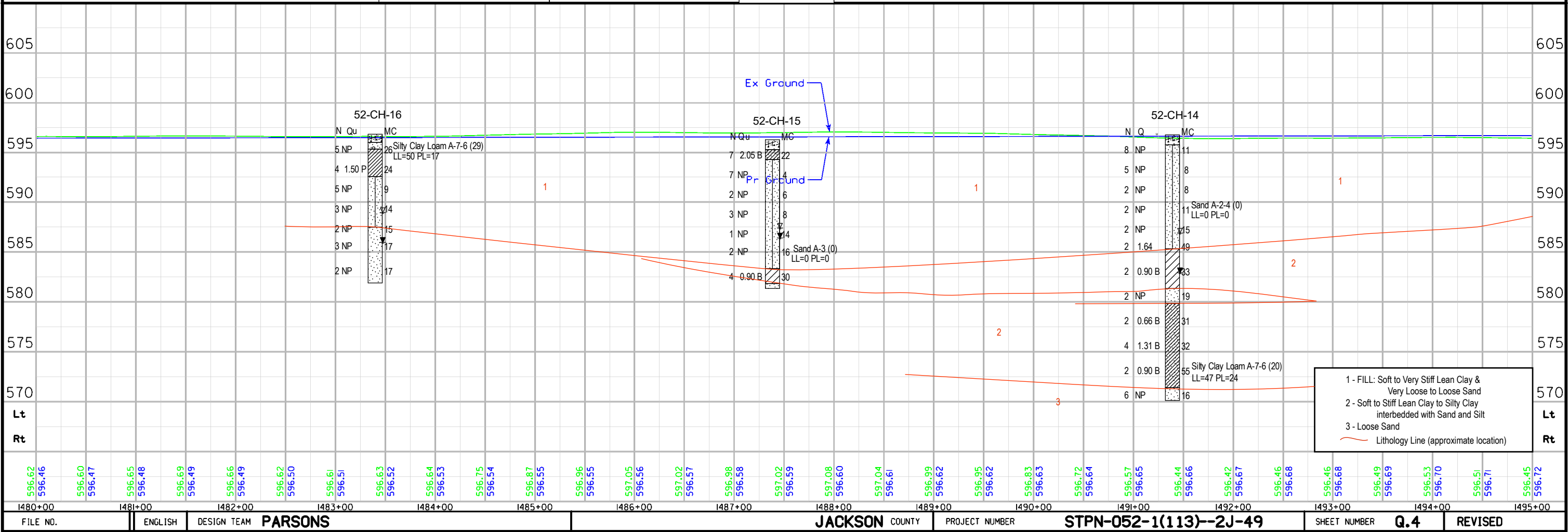
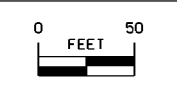


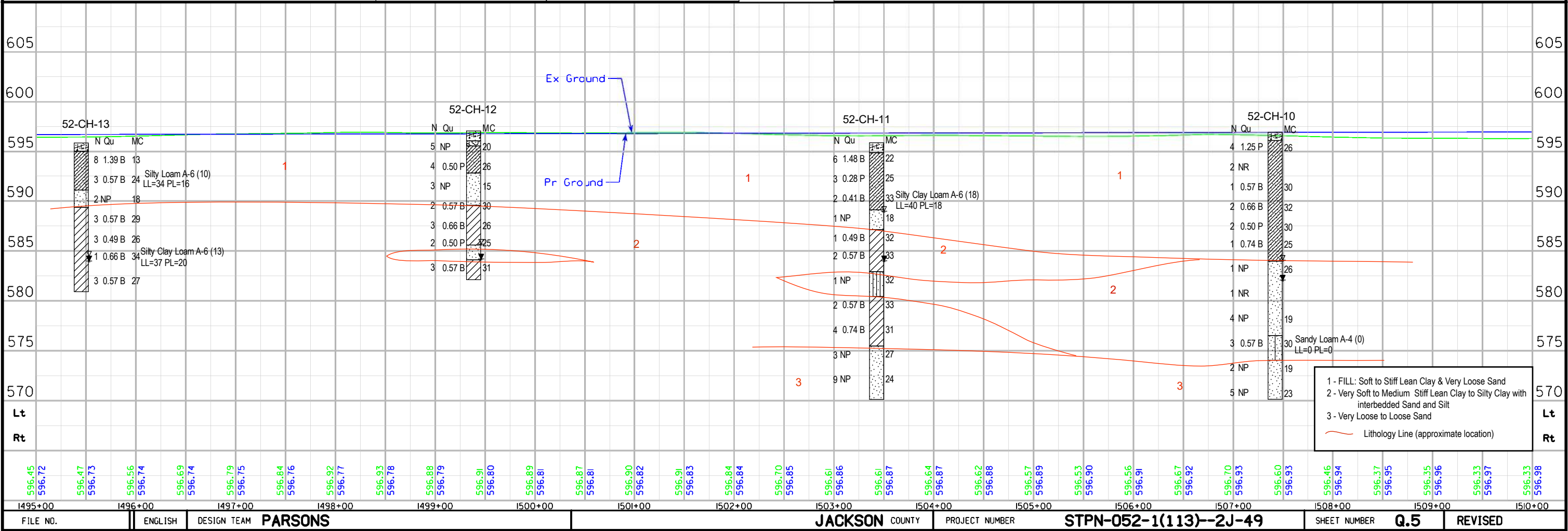
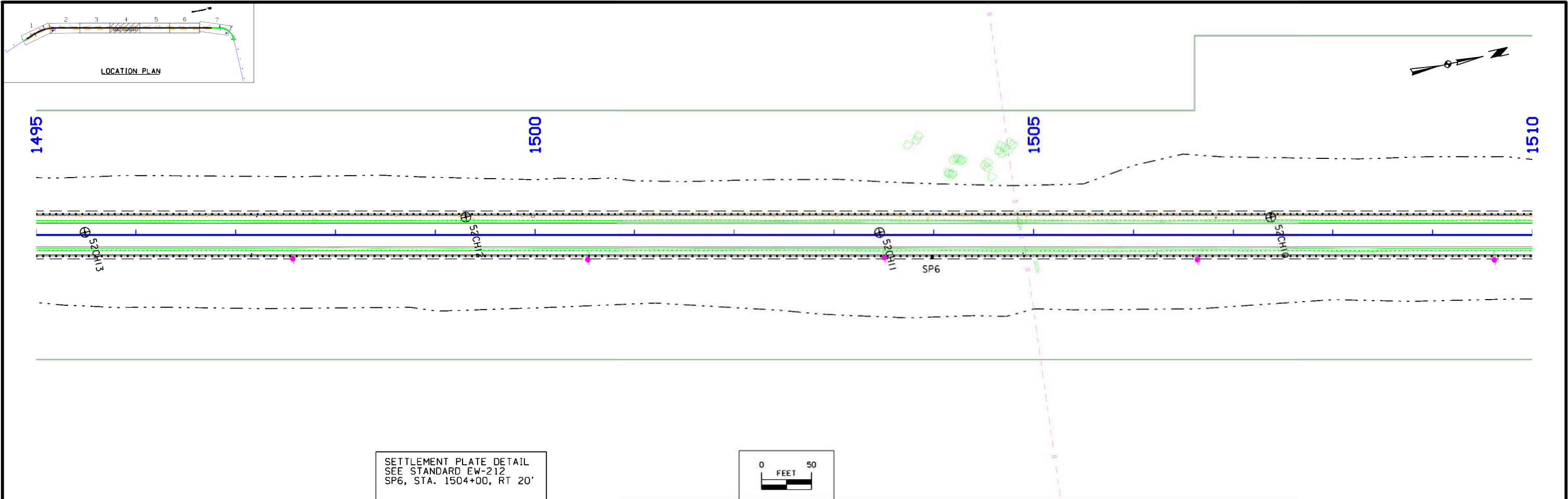
SETTLEMENT PLATE DETAIL
SEE STANDARD EW-212
SP3, STA. 1474+00, LT 20'

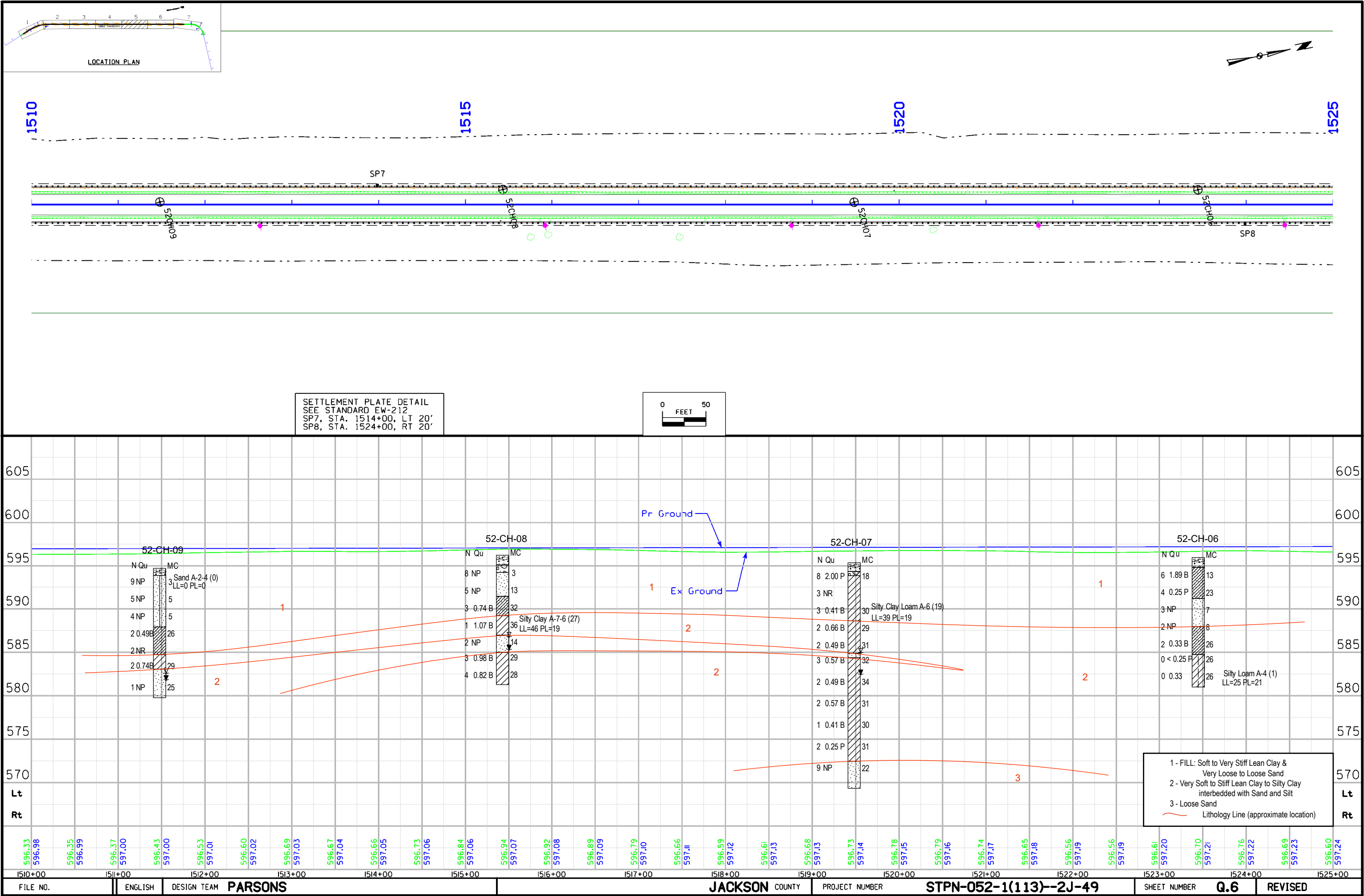


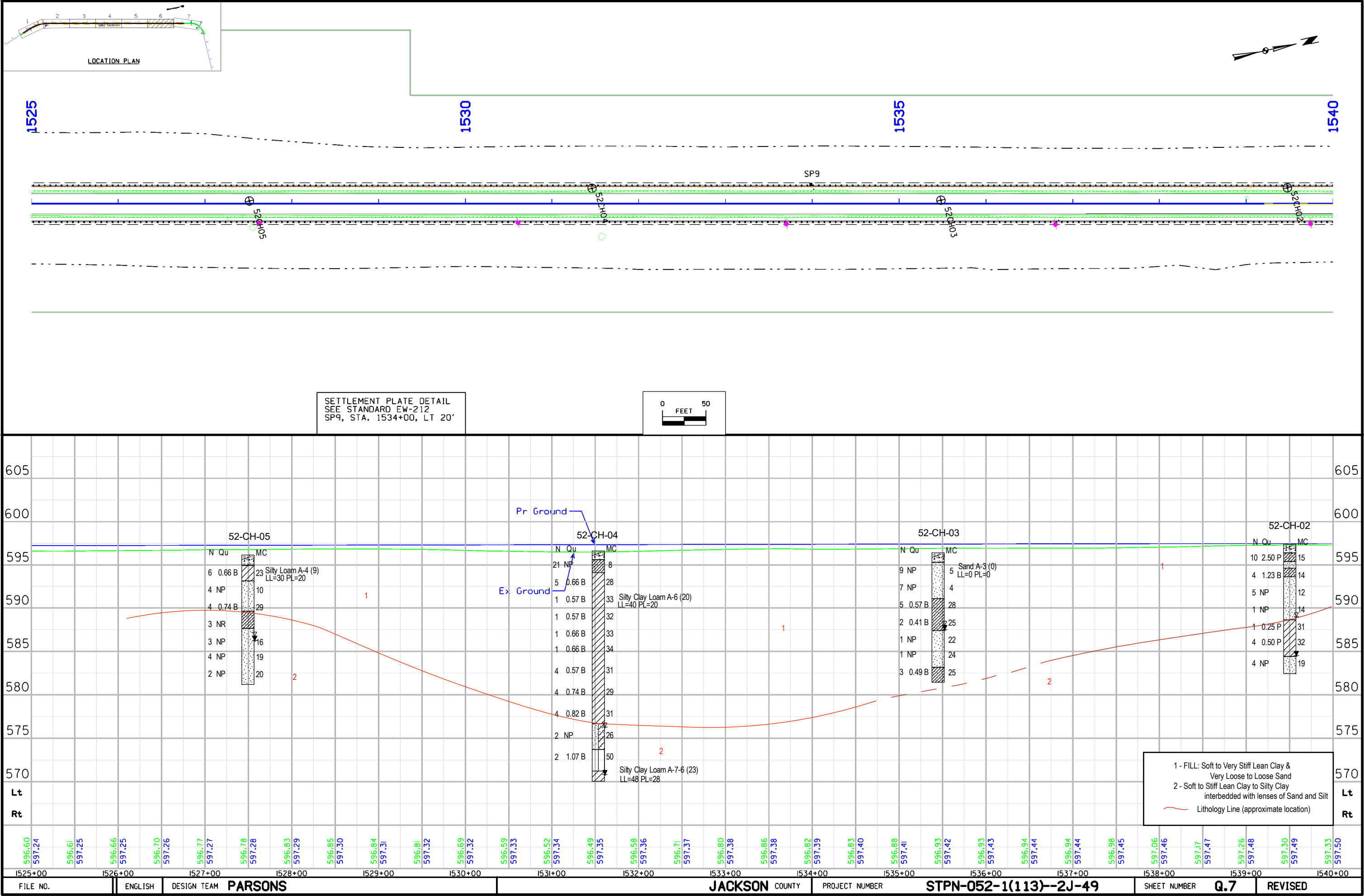


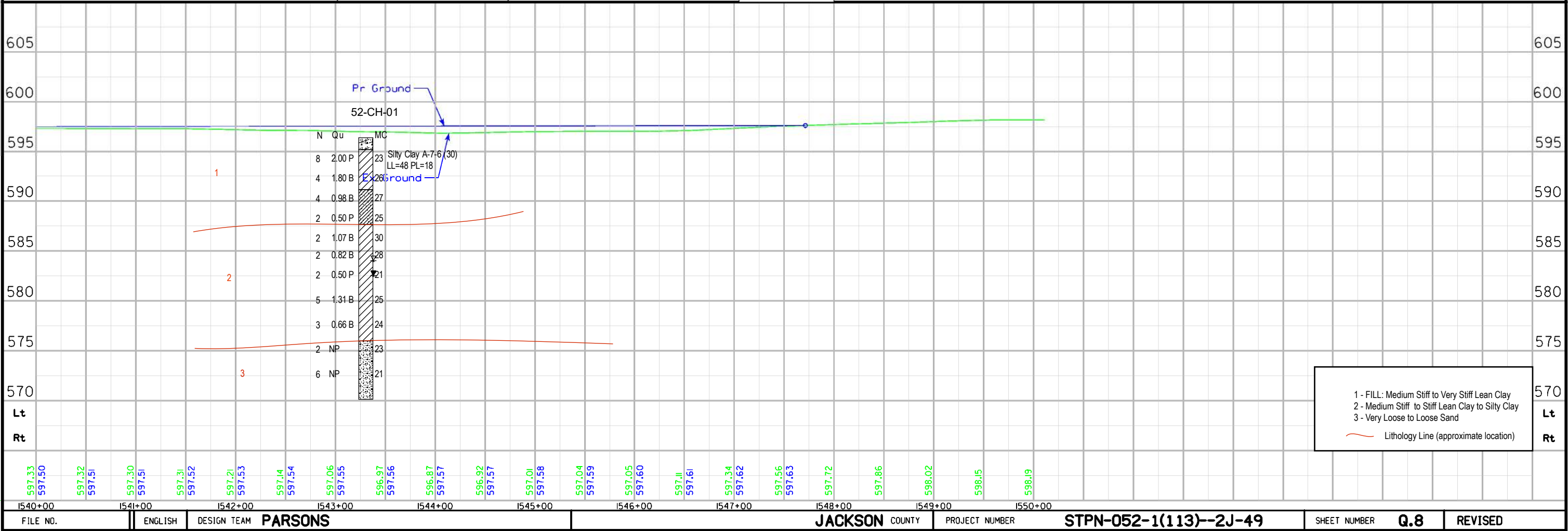
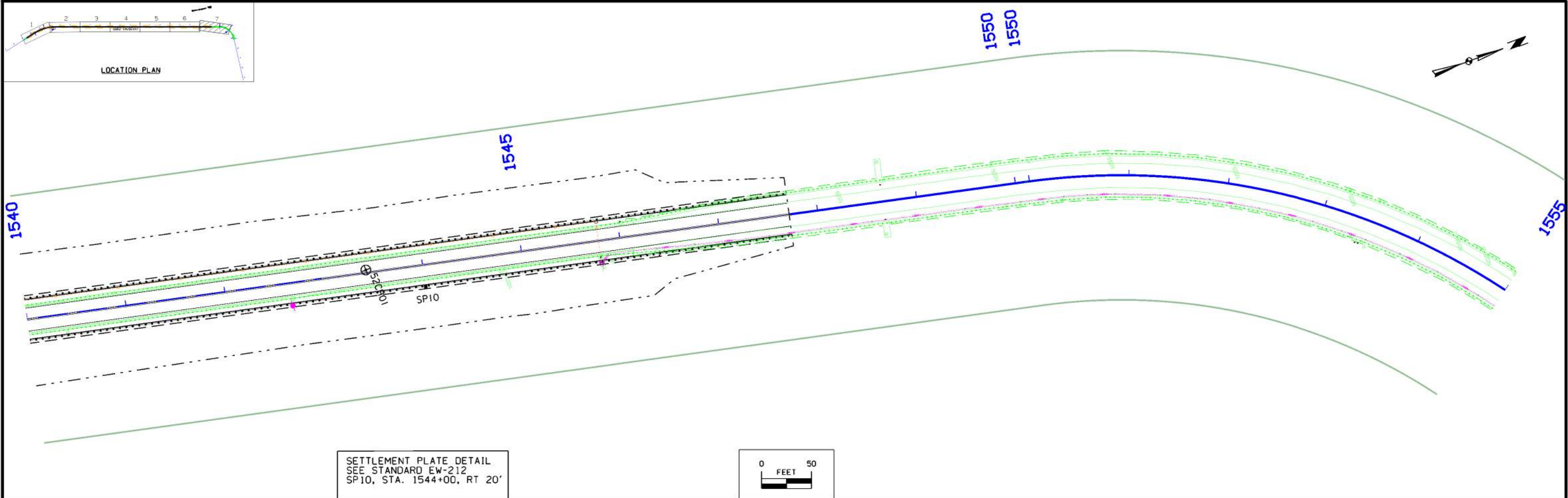
SETTLEMENT PLATE DETAIL
SEE STANDARD EW-212
SP4, STA. 1484+00, RT 20'
SP5, STA. 1494+00, LT 20'











110_12 1/13/23 POLLUTION PREVENTION PLAN This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP). This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review. All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP. I. ROLES AND RESPONSIBILITES A. Designer: - Prepares Base PPP included in the project plan. - Prepares Notice of Intent (NOI) submitted to Iowa DNR. - Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required. B. Contractor: - Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP. - Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications. - Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications. - Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231). - Supervises and implements good housekeeping practices according to Paragraph III, C, 2. - Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports. - Complies with training and certification requirements of Section 2602 of the Standard Specifications. - Submits amended PPP site map according to Section 2602 of the Standard Specifications. C. Subcontractors: - Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP. - Implement good housekeeping practices according to Paragraph III, C, 2. D. RCE/Project Engineer: - Is Project Storm Water Manager. - On projects where DOT is the Contracting Authority, is current with erosion control training or certification. - Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance. - Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit. - Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors. - Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements. - Is familiar with the Project PPP and storm water site map. - On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies. - Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements. - Is signature authority on Notice of Discontinuation. - Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231). - Makes information to determine permit compliance available to the DNR upon their request.				110_12 1/13/23 POLLUTION PREVENTION PLAN E. Inspector: - Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project. - Makes information to determine permit compliance available to the DNR upon their request. - Conducts joint required inspections of the site with the contractor/subcontractor. - Completes an inspection report after each inspection. - Is signature authority on storm water inspection reports. II. PROJECT SITE DESCRIPTION A. This Pollution Prevention Plan (PPP) is for the construction of the widening of the U.S. 52 Causeway. B. This PPP covers approximately 58.85 acres with an estimated 26.79 acres being disturbed. The portion of the PPP covered by this contract has 26.79 acres disturbed. C. The PPP is located in an area of Downs - Fayette - Nordness soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.52. D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets. E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map. F. Runoff from this work will flow into the Mississippi River. III. CONTROLS A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented. B. Preserve vegetation in areas not needed for construction. C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications. 1. EROSION AND SEDIMENT CONTROLS a. Stabilization Practices - Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized. - Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have: - Permanently ceased on any portion of the site, or - Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. - Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above. - Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets. - Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips. - Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications. b. Structural Practices - Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas. - Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.				
FILE NO.	ENGLISH	DESIGN TEAM	Parsons	JACKSON COUNTY	PROJECT NUMBER	STPN-052-1(113)-SJ-49	SHEET NUMBER	RC.1

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110_12 1/13/23 POLLUTION PREVENTION PLAN				110_12 1/13/23 POLLUTION PREVENTION PLAN				
c. Storm Water Management Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act. 2. OTHER CONTROLS Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply. a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways. b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use. c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving. d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit. e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state. f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events. g. Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project. h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge. i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants. j. Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point. 3. APPROVED STATE OR LOCAL PLANS During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time. IV. MAINTENANCE PROCEDURES The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity. V. INSPECTION REQUIREMENTS A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include: 1. Date of the inspection. 2. Summary of the scope of the inspection. 3. Name and qualifications of the personnel making the inspection. 5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters. 6. Major observations related to the implementation of the PPP. 7. Identification of corrective actions required to maintain or modify erosion and sediment control measures. B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made. VI. NON-STORM WATER DISCHARGES				This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP. VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP. VIII. DEFINITIONS A. Base PPP - Initial Pollution Prevention Plan. B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request. C. Fieldbook Entries - This contains the inspector’s daily diary and bid item postings. D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs). E. Signature Authority - Representative authorized to sign various storm water documents. ----- CERTIFICATION STATEMENT I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signature Printed or Typed Name Signature Printed or Typed Name				
FILE NO.	ENGLISH	DESIGN TEAM	Parsons	JACKSON COUNTY	PROJECT NUMBER	STPN-052-1(113)-SJ-49	SHEET NUMBER	RC.2

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FLOATING SILT CURTAINS Refer to EC-202							100_10 8/15/22
Line No.	Station	Hanging (LF)	Containment (LF)	Clean-out (Containment) (LF)	of Floating Silt Curtain (LF)	Remarks	
1.0	1452+00.00	4889.0	4889.0	9778.0	4889.0	LT Side 1452+00 to 1500+25.00	
2.0	1500+25.00	4761.0	4761.0	9522.0	4761.0	LT Side 1500+25 to 1547+71.34	
3.0	1452+00.00	4800.0	4800.0	9600.0	4800.0	RT Side 1452+00 to 1500+25.00	
4.0	1500+25.00	4755.0	4755.0	9510.0	4755.0	RT Side 1500+25 to 1547+71.34	

281_01
9/28/22

SECTION 404 PERMIT AND CONDITIONS

Construct this project according to the requirements of U.S. Army Corps of Engineers Individual, Permit No. 2025-0136. A copy of this permit is available from the Iowa DOT website (<http://www.envpermits.iowadot.gov/>). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

281_03
11/9/23

STORM WATER BEST MANAGEMENT PRACTICES

When the following best management practices are used, they are intended to account for disturbed areas where storage volume cannot be provided:

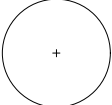
Floating Silt Curtain

282_03
9/28/22

TEMPORARY STREAM CROSSING, CAUSEWAY, OR EQUIPMENT PAD

Standard Road Plan EW-401 is listed in Tabulation 105-4; however, it is included for information purposes only since it is an option. No quantities associated with constructing EW-401 are included in any bid items.

LINE STYLE LEGEND OF LANDSCAPE SHEETS		
LINESTYLE	Design Element	
-----	Living Snow Fence Single Row	
=====	Living Snow Fence Double Row	
=====	Mechanical Edge	

CELL LEGEND OF LANDSCAPE SHEETS		
CELL	Design Element	Plant Diameter
	Clearing	
	Proposed Shrub	
	Proposed Understory Tree	
	Proposed Conifer Tree	
	Proposed Overstory Tree	

PATTERN LEGEND OF LANDSCAPE SHEETS		
	Brush Clearing	 Spray Area
	Clearing & Grubbing	

LINE STYLE LEGEND OF EROSION CONTROL SHEETS		
LINESTYLE	Design Element	
=====	Silt Fence	
=====	Perimeter and Slope Sediment Control Device (9")	
=====	Perimeter and Slope Sediment Control Device (12")	
=====	Perimeter and Slope Sediment Control Device (20")	
=====	Open-Throat Curb Intake Sediment Filter	
=====	Concentrated Flow	
=====	Rock Check and Rock Check Dam	
=====	Sheet Flow	

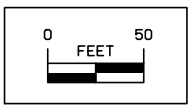
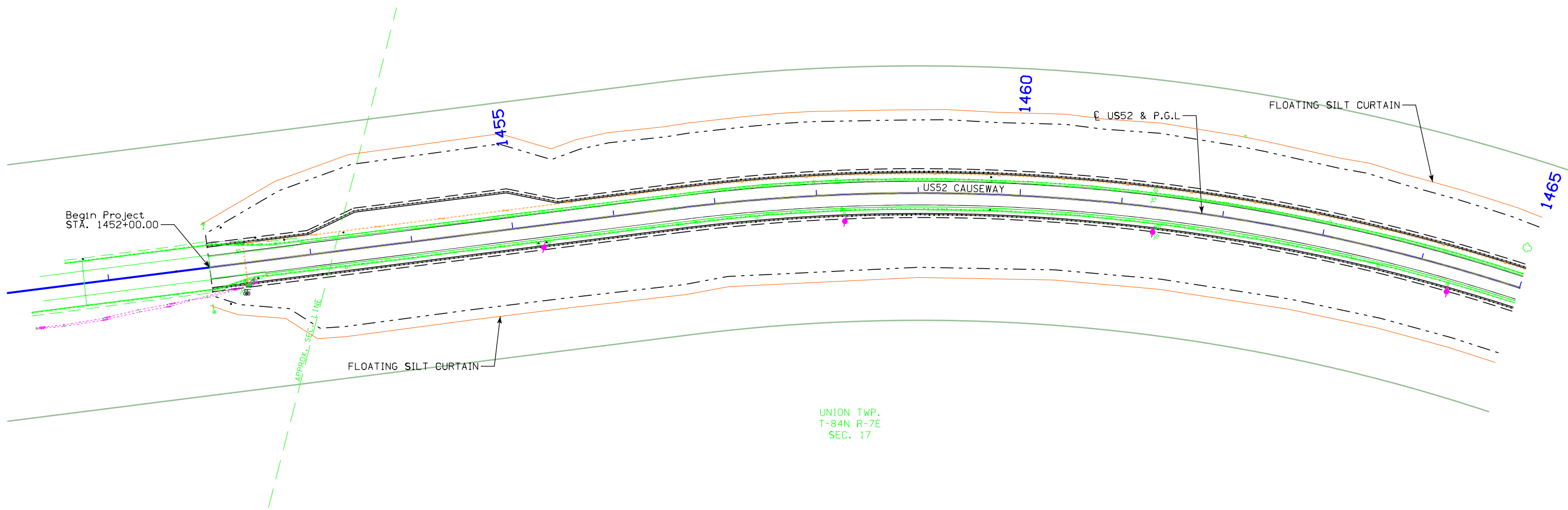
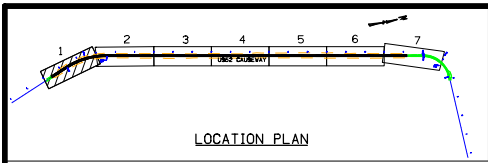
CELL LEGEND OF EROSION CONTROL SHEETS		
CELL	Design Element	
	Temporary Sediment Control basin	
	Erosion Control for Circular Intake or Manhole Well	
	Erosion Control for Rectangular Intake or Manhole Well	
	Grate Intake Sediment Filter Bag	
	Silt Basin	
	Silt Fence Tail	
	Stormwater Drainage Basin Discharge Point	

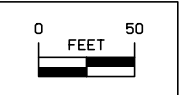
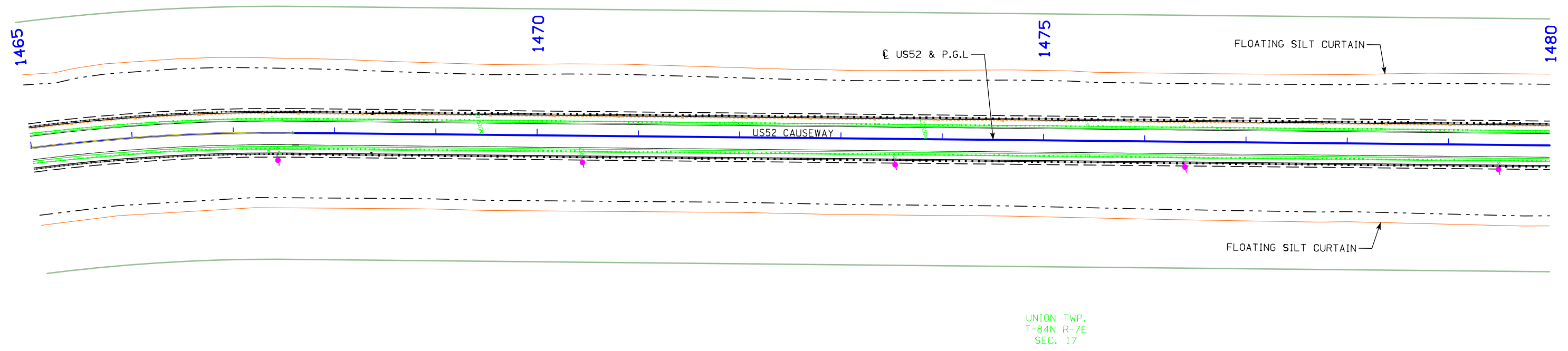
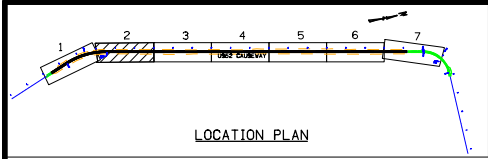
PLAN VIEW COLOR LEGEND OF EROSION CONTROL SHEETS				
LINEWORK	Design Color No.			
Green	(2)		Existing Topographic Features and Labels	
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation	
Magenta	(5)		Existing Utilities	
Black	(0)		Permanent Erosion Control Features	
Blaze Orange	(222)		Temporary Erosion Control Features	
SHADING	Design Color No.		Transparency	
Citron	(234)		Mulching, All Types	50%
Light Brown	(238)		Special Ditch Control, Wood Excelsior Mat	0%
Grass Green	(233)		8FT Mow Strip	50%
Red	(3)		Delineates Restricted Areas	0%

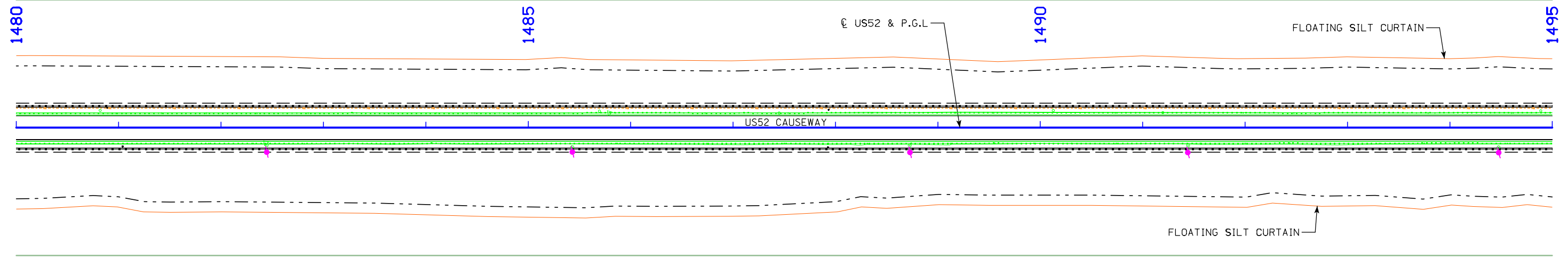
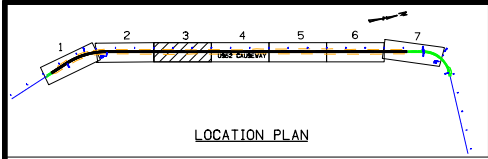
PATTERN LEGEND OF EROSION CONTROL SHEETS		
	Seeding and Fertilizing	 Turf Reinforcement Mat Type 1
	Seeding and Fertilizing (Rural)	 Turf Reinforcement Mat Type 2
	Seeding and Fertilizing (Urban)	 Turf Reinforcement Mat Type 3
	Native Grass Seeding	 Turf Reinforcement Mat Type 4
	Salt Tolerant Seeding	 Slope Protection, Wood Excelsior Mat
	Wetland Grass Seeding	 Transition Mat
	Wildflower Seeding	 Rock Features, Permanent
	Sodding	 Rock Features, Temporary

EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

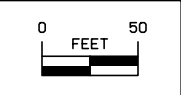
(COVERS SHEET SERIES R)

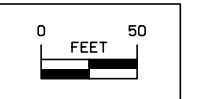
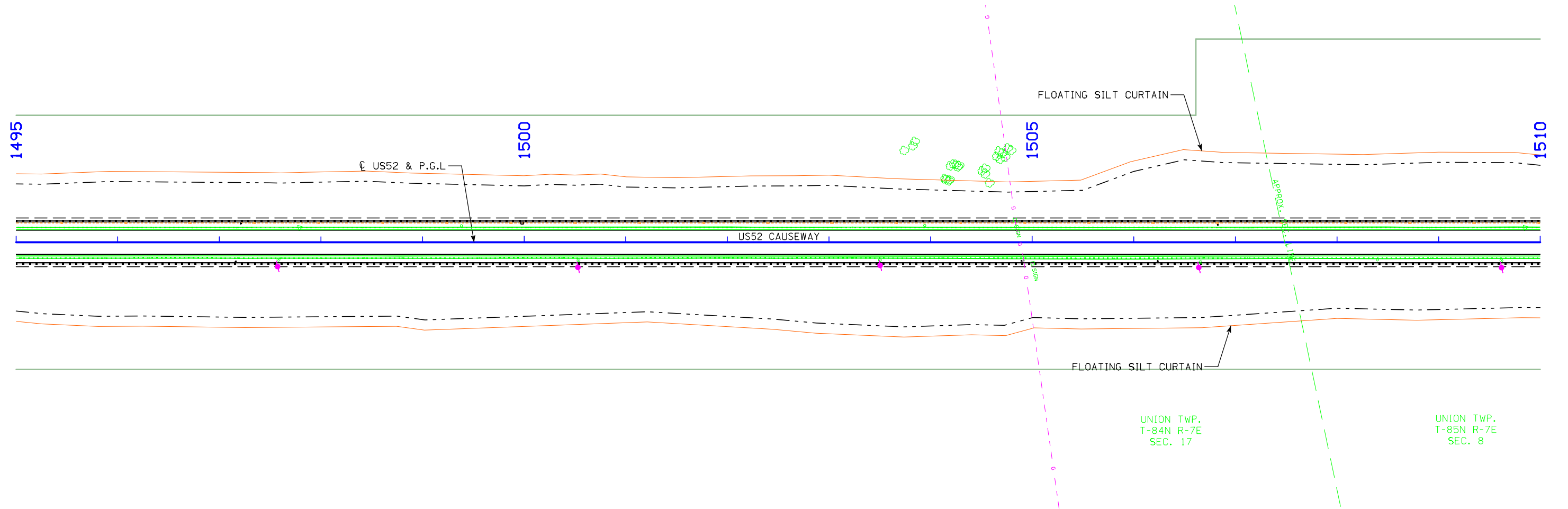


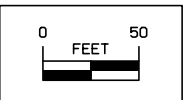
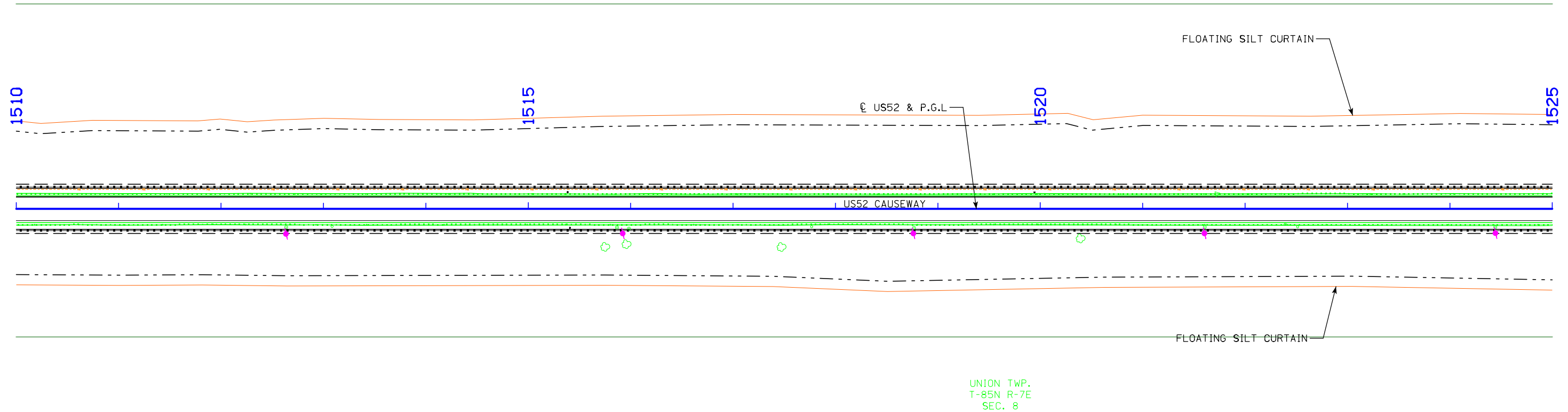
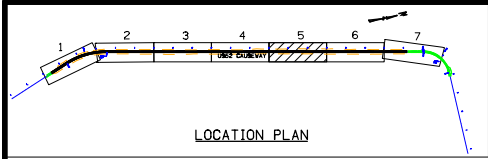


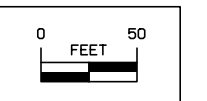
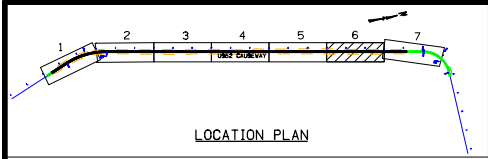


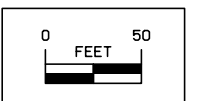
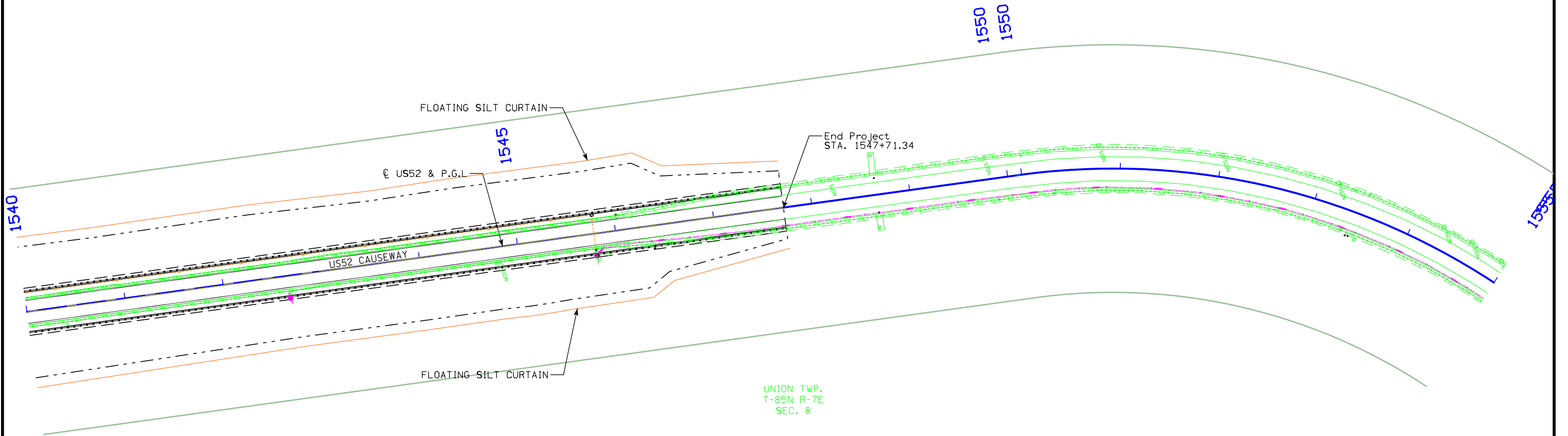
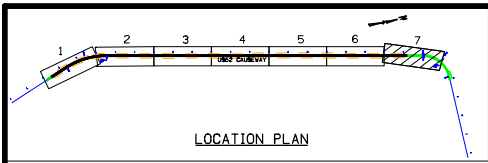
UNION TWP.
T-84N R-7E
SEC. 17

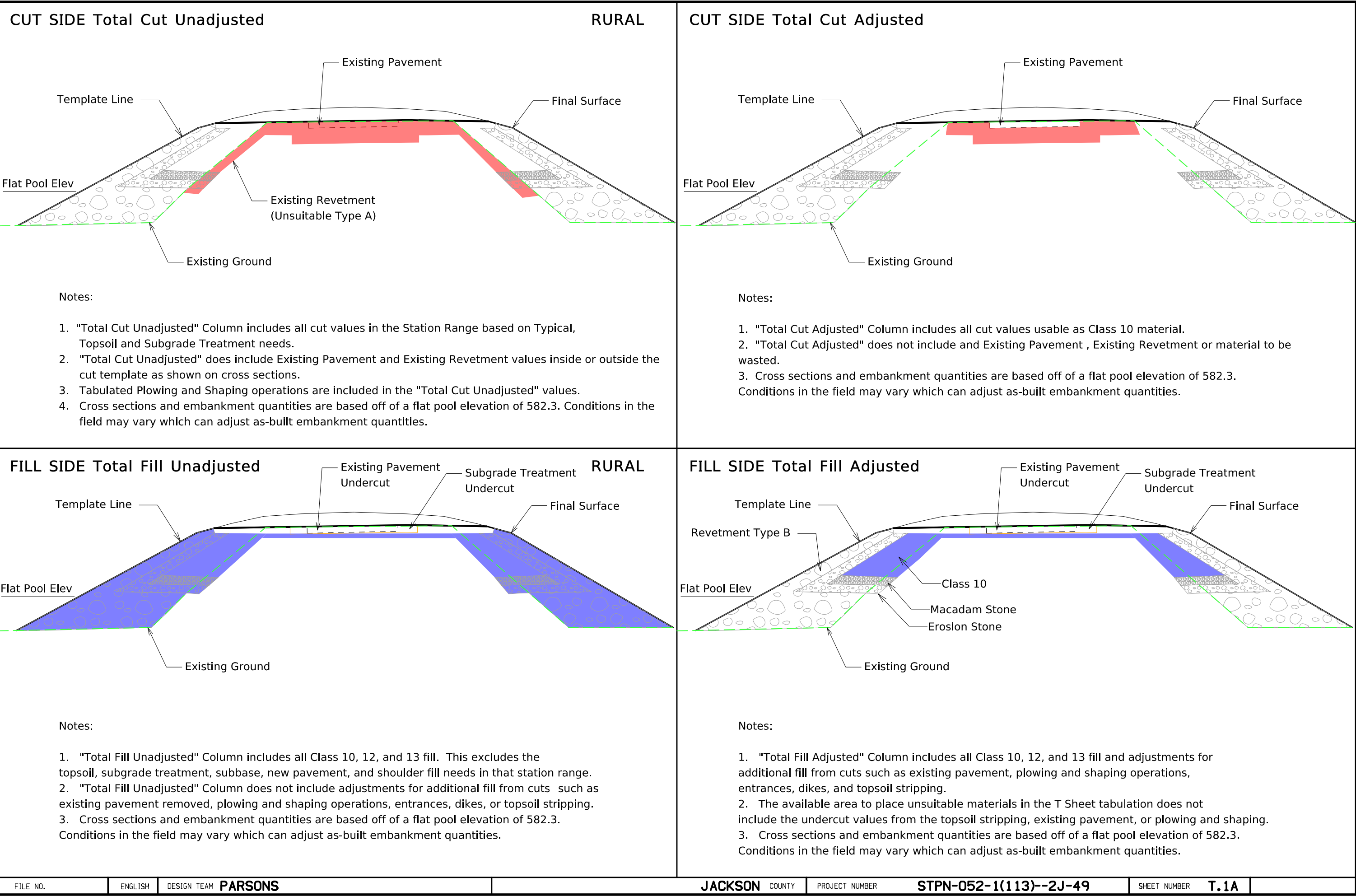


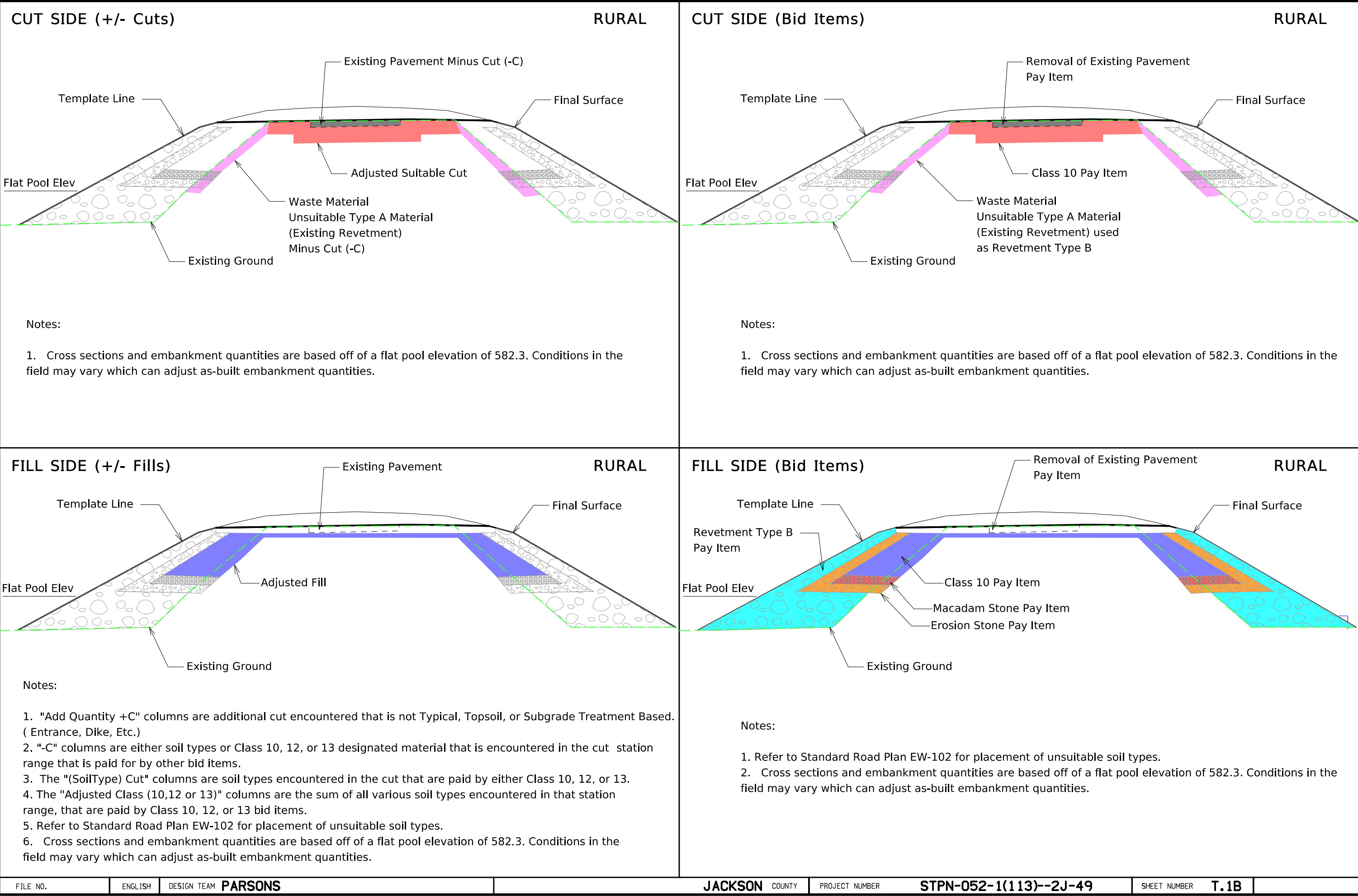












TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut					Fill							Checks (EW-102)									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	[2]+[3]+[4]		Existing Revetment		[2]		Erosion Stone	Macadam Stone	Revetment Type B	[6]-[7]-[8]- [9]	[10]*1.3	[11]-[5]										
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Template Unsuitable Type A Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Template Granular Backfill Volume	Template Macadam Stone Volume	Template Revetment Type B Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Fill Adjusted w/ Shrink Minus Total Cut Adjusted	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink								
US-52																						
1452+00.00																						
1452+25.00	118	96	0	21	96	11	0	0	11	0	0	-96	0	0								
1452+50.00	108	90	0	18	90	33	0	0	33	0	0	-90	0	0								
1452+75.00	94	79	0	15	79	88	0	0	88	0	0	-79	0	0								
1453+00.00	116	70	32	14	70	296	27	9	197	64	83	13	0	0								
1453+25.00	145	68	63	14	68	537	57	21	297	162	210	143	0	0								
1453+50.00	144	68	62	14	68	666	64	29	347	226	294	226	0	0								
1453+75.00	142	67	62	14	67	701	68	33	340	260	338	272	0	0								
1454+00.00	139	64	61	14	64	672	69	34	301	268	349	285	0	0								
1454+25.00	135	61	59	14	61	702	70	35	320	278	361	299	0	0								
1454+50.00	130	57	59	14	57	746	71	35	353	287	373	315	0	0								
1454+75.00	126	52	60	14	52	752	72	36	350	294	382	330	0	0								
1455+00.00	106	47	44	14	47	752	71	35	362	283	368	321	0	0								
1455+25.00	103	44	45	14	44	676	68	32	321	254	331	287	0	0								
1455+50.00	116	39	63	14	39	575	64	26	272	213	277	237	0	0								
1455+75.00	109	35	64	11	35	561	61	23	286	189	246	212	0	0								
1456+00.00	105	30	64	11	30	578	63	25	287	203	264	234	0	0								
1456+25.00	105	26	64	14	26	597	64	25	295	212	276	250	0	0								
1456+50.00	103	24	65	14	24	629	65	25	328	212	276	252	0	0								
1456+75.00	102	23	65	14	23	644	66	26	328	224	292	268	0	0								
1457+00.00	101	22	65	14	22	642	67	27	312	235	306	284	0	0								
1457+25.00	100	21	65	14	21	638	68	27	304	239	311	290	0	0								
1457+50.00	100	19	67	14	19	657	68	27	319	242	315	296	0	0								
1457+75.00	99	17	67	14	17	684	68	27	345	243	317	299	0	0								
1458+00.00	98	17	67	14	17	668	68	27	329	244	317	299	0	0								
1458+25.00	98	17	67	14	17	659	69	27	320	243	316	299	0	0								
1458+50.00	97	16	67	14	16	664	69	28	318	249	324	308	0	0								
1458+75.00	96	15	67	14	15	676	70	28	325	253	329	313	0	0								
1459+00.00	95	15	67	14	15	701	70	28	349	254	330	316	0	0								
1459+25.00	79	13	52	14	13	681	69	27	349	236	307	294	0	0								
1459+50.00	79	11	54	14	11	675	69	27	341	238	310	299	0	0								
1459+75.00	94	9	71	14	9	699	70	28	343	257	335	326	0	0								
1460+00.00	94	7	73	14	7	694	70	28	337	258	336	329	0	0								
1460+25.00	90	6	74	10	6	694	70	27	344	253	329	323	0	0								
1460+50.00	90	4	75	10	4	678	70	27	335	247	321	316	0	0								
1460+75.00	92	3	75	14	3	663	70	28	311	255	331	328	0	0								
1461+00.00	92	2	76	14	2	672	70	27	320	254	330	328	0	0								
1461+25.00	93	2	77	14	2	659	70	27	309	253	329	327	0	0								
1461+50.00	93	2	77	14	2	660	70	27	308	254	331	329	0	0								
1461+75.00	93	2	77	14	2	641	70	27	290	254	330	328	0	0								
1462+00.00	94	2	78	14	2	623	70	27	275	251	326	325	0	0								
1462+25.00	95	2	79	14	2	634	70	27	290	247	321	319	0	0								
1462+50.00	96	2	81	14	2	614	69	26	276	243	316	314	0	0								
1462+75.00	97	2	81	14	2	613	69	26	275	242	315	313	0	0								
1463+00.00	97	2	81	14	2	617	69	26	280	242	315	313	0	0								
1463+25.00	98	2	81	14	2	594	69	27	251	247	321	319	0	0								
1463+50.00	99	3	81	15	3	576	68	26	241	241	313	310	0	0								
1463+75.00	100	4	82	15	4	567	68	26	236	237	308	304	0	0								
1464+00.00	100	5	81	14	5	561	68	26	231	236	307	302	0	0								
1464+25.00	102	7	80	14	7	559	67	25	243	225	292	285	0	0								
1464+50.00	103	10	80	14	10	559	66	24	248	220	286	276	0	0								
1464+75.00	85	11	60	14	11	528	47	17	314	150	195	184	0	0								
1465+00.00	66	12	40	14	12	467	29	10	339	89	115	103	0	0								
1465+25.00	65	13	38	14	13	430	30	11	294	95	123	111	0	0								
1465+50.00	87	13	59	14	13	481	48	18	262	153	199	186	0	0								
1465+75.00	106	14	78	14	14	556	67	25	237	227	295	281	0	0								
1466+00.00	102	15	73	14	15	575	68	27	243	237	309	294	0	0								
1466+25.00	103	17	72	14	17	563	67	26	246	225	292	276	0	0								
1466+50.00	104	19	71	14	19	548	66	25	240	217	282	263	0	0								
1466+75.00	106	22	70	14	22	534	66	25	230	214	279	256	0	0								
1467+00.00	108	26	68	14	26	528	65	24	227	212	275	249	0	0								
1467+25.00	110	29	66	14	29	527	66	25	220	216	281	252	0	0								
1467+50.00	109	30	66	14	30	519	65	25	211	217	282	253	0	0								
1467+75.00	110	30	66	14	30	511	65	24	214	208	271	241	0	0								
1468+00.00	111	30	66	14	30	512	65	25	203	218	284	253	0	0								
1468+25.00	96	31	51	14	31	486	63	24	199	200	260	229	0	0								
1468+50.00	98	32	51	14	32	464	61	22	201	179	232	200	0	0								
1468+75.00	114	34	66	14	34	465	61	22	202	181	235	201	0	0								
1469+00.00	115	36	66	14	36	454	60	21	203	170	221	186	0	0								
Totals:	6,997	1,714	4,322	962	1,714	39,285	4,218	1,679	18,757	14,632	19,021	17,307										

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut					Fill							Checks (EW-102)									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	[2]+[3]+[4]		Existing Revetment		[2]		Erosion Stone	Macadam Stone	Revetment Type B	[6]-[7]-[8]- [9]	[10]*1.3	[11]-[5]										
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Template Unsuitable Type A Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Template Granular Backfill Volume	Template Macadam Stone Volume	Template Revetment Type B Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Fill Adjusted w/ Shrink Minus Total Cut Adjusted	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink								
US-52																						
1469+00.00	117	37	66	14	37	438	58	21	196	163	212	175	0	0								
1469+25.00	118	38	66	14	38	439	58	21	198	162	211	174	0	0								
1469+50.00	119	39	66	14	39	445	58	21	204	163	211	172	0	0								
1469+75.00	121	42	65	14	42	439	58	21	199	162	211	169	0	0								
1470+00.00	124	45	64	14	45	442	57	21	201	162	211	166	0	0								
1470+25.00	127	50	63	14	50	445	57	21	207	160	208	158	0	0								
1470+50.00	130	53	63	14	53	437	57	21	203	157	204	150	0	0								
1470+75.00	132	55	63	14	55	435	57	21	200	158	205	150	0	0								
1471+00.00	135	57	65	14	57	433	56	20	204	153	199	142	0	0								
1471+25.00	140	59	67	14	59	417	54	19	202	142	185	125	0	0								
1471+50.00	145	63	68	14	63	402	54	19	184	145	188	125	0	0								
1471+75.00	147	67	66	14	67	406	54	20	185	147	191	125	0	0								
1472+00.00	146	69	64	14	69	398	53	19	190	136	177	108	0	0								
1472+25.00	146	70	62	14	70	387	53	18	185	131	170	101	0	0								
1472+50.00	146	70	62	14	70	393	53	18	190	132	172	102	0	0								
1472+75.00	147	71	62	14	71	402	53	19	193	137	179	107	0	0								
1473+00.00	149	73	61	14	73	400	53	19	192	135	176	103	0	0								
1473+25.00	149	77	61	11	77	386	52	18	189	126	164	88	0	0								
1473+50.00	152	81	61	11	81	381	52	17	189	123	160	79	0	0								
1473+75.00	159	85	60	14	85	383	51	17	194	121	158	73	0	0								
1474+00.00	162	87	61	14	87	376	51	17	189	119	154	67	0	0								
1474+25.00	162	87	61	14	87	365	51	17	180	117	152	65	0	0								
1474+50.00	160	86	61	14	86	380	51	17	192	120	155	70	0	0								
1474+75.00	158	83	61	14	83	383	52	18	190	124	162	79	0	0								
1475+00.00	156	81	61	14	81	377	52	18	179	128	166	85	0	0								
1475+25.00	155	79	61	15	79	400	53	18	196	132	172	93	0	0								
1475+50.00	154	79	61	15	79	414	53	18	210	132	172	93	0	0								
1475+75.00	153	78	61	14	78	398	52	18	197	130	169	91	0	0								
1476+00.00	152	78	61	14	78	404	53	19	195	137	178	101	0	0								
1476+25.00	149	78	61	11	78	396	53	19	188	136	176	99	0	0								
1476+50.00	149	78	61	11	78	379	53	18	176	132	171	94	0	0								
1476+75.00	153	78	61	14	78	396	53	19	184	139	181	102	0	0								
1477+00.00	156	80	62	14	80	418	53	18	215	132	172	92	0	0								
1477+25.00	157	81	63	14	81	424	52	17	230	125	162	82	0	0								
1477+50.00	156	80	62	14	80	418	53	19	211	136	176	96	0	0								
1477+75.00	154	79	61	14	79	430	53	19	222	136	177	98	0	0								
1478+00.00	153	78	61	14	78	419	53	18	218	130	169	92	0	0								
1478+25.00	153	78	61	14	78	396	53	19	191	134	174	96	0	0								
1478+50.00	152	77	61	14	77	396	53	19	188	137	178	101	0	0								
1478+75.00	151	75	62	14	75	409	53	18	205	133	173	98	0	0								
1479+00.00	152	73	65	14	73	413	52	17	222	123	160	87	0	0								
1479+25.00	153	72	67	14	72	407	51	17	220	120	155	83	0	0								
1479+50.00	153	73	66	14	73	416	51	16	231	117	153	79	0	0								
1479+75.00	154	76	64	14	76	431	51	16	251	113	147	72	0	0								
1480+00.00	153	77	62	14	77	418	51	17	230	120	156	79	0	0								
1480+25.00	153	76	62	14	76	393	51	17	205	119	155	79	0	0								
1480+50.00	153	76	63	14	76	385	50	16	208	111	144	68	0	0								
1480+75.00	154	77	64	14	77	386	51	17	201	117	153	76	0	0								
1481+00.00	155	77	64	14	77	424	51	17	238	118	154	77	0	0								
1481+25.00	155	78	63	14	78	439	50	16	261	112	145	67	0	0								
1481+50.00	155	78	63	14	78	413	51	17	224	120	156	78	0	0								
1481+75.00	154	77	63	14	77	403	52	18	207	126	164	87	0	0								
1482+00.00	153	75	63	14	75	430	52	18	234	127	165	89	0	0								
1482+25.00	152	74	64	14	74	432	53	18	227	134	174	100	0	0								
1482+50.00	151	73	64	14	73	413	53	18	212	131	170	97	0	0								
1482+75.00	151	73	64	14	73	445	52	17	252	124	161	88	0	0								
1483+00.00	151	73	64	14	73	473	53	18	271	131	170	97	0	0								
1483+25.00	151	72	65	14	72	462	53	18	256	134	174	102	0	0								
1483+50.00	153	73	66	14	73	427	53	18	222	134	174	101	0	0								
1483+75.00	157	74	69	14	74	457	54	19	242	142	185	111	0	0								
1484+00.00	162	77	71	14	77	457	54	19	240	145	188	112	0	0								
1484+25.00	163	79	70	14	79	441	53	19	229	140	183	104	0	0								
1484+50.00	149	79	55	14	79	480	53	19	276	132	172	93	0	0								
1484+75.00	151	80	57	14	80	473	53	19	263	137	178	98	0	0								
1485+00.00	165	81	70	14	81	469	54	20	242	153	198	117	0	0								
1485+25.00	167	83	70	14	83	493	54	21	262	156	203	120	0	0								
1485+50.00	171	84	73	14	84	507	54	20	278	156	202	118	0	0								
1485+75.00	175	86	75	14	86	496	53	20	270	154	200	114	0	0								
1486+00.00																						
Totals:	10,214	4,944	4,327	943	4,944	28,568	3,611	1,254	14,533	9,170	11,920	6,976										

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut					Fill							Checks (EW-102)									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	[2]+[3]+[4]		Existing Revetment		[2]		Erosion Stone	Macadam Stone	Revetment Type B	[6]-[7]-[8]- [9]	[10]*1.3	[11]-[5]										
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Template Unsuitable Type A Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Template Granular Backfill Volume	Template Macadam Stone Volume	Template Revetment Type B Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Fill Adjusted w/ Shrink Minus Total Cut Adjusted	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink								
US-52																						
1486+00.00	176	86	76	14	86	484	52	20	258	153	199	114	0	0								
1486+25.00	173	84	74	14	84	513	53	21	280	159	206	122	0	0								
1486+50.00	172	82	75	14	82	527	54	22	280	171	222	140	0	0								
1486+75.00	173	81	77	14	81	504	43	18	289	154	201	119	0	0								
1487+00.00	146	81	51	14	81	449	30	13	298	108	141	60	0	0								
1487+25.00	122	82	25	14	82	400	28	11	275	86	111	29	0	0								
1487+50.00	123	84	25	14	84	413	28	11	292	82	107	23	0	0								
1487+75.00	150	84	52	14	84	431	40	16	256	119	155	71	0	0								
1488+00.00	177	83	79	14	83	417	53	21	183	161	209	125	0	0								
1488+25.00	163	83	66	14	83	407	52	20	185	150	195	113	0	0								
1488+50.00	158	81	63	14	81	406	53	20	184	149	194	113	0	0								
1488+75.00	170	79	76	14	79	399	54	21	165	159	207	128	0	0								
1489+00.00	185	78	93	14	78	411	75	22	141	174	226	148	0	0								
1489+25.00	183	78	90	14	78	423	74	22	149	177	230	152	0	0								
1489+50.00	165	76	74	14	76	407	54	21	168	164	213	137	0	0								
1489+75.00	166	74	78	14	74	396	54	22	151	169	220	146	0	0								
1490+00.00	166	73	78	14	73	403	54	22	155	171	223	150	0	0								
1490+25.00	161	72	75	14	72	411	55	22	167	168	218	147	0	0								
1490+50.00	138	68	59	11	68	393	55	21	162	155	201	133	0	0								
1490+75.00	132	65	56	11	65	392	56	21	157	157	204	139	0	0								
1491+00.00	145	63	68	14	63	424	58	23	169	175	227	164	0	0								
1491+25.00	143	61	68	14	61	428	58	23	170	177	230	169	0	0								
1491+50.00	140	59	67	14	59	415	58	22	163	172	223	164	0	0								
1491+75.00	140	59	67	14	59	428	57	22	179	170	220	161	0	0								
1492+00.00	141	60	67	14	60	423	57	22	178	166	216	156	0	0								
1492+25.00	141	61	66	14	61	404	56	21	168	159	207	146	0	0								
1492+50.00	141	61	66	14	61	420	56	21	187	156	203	142	0	0								
1492+75.00	140	60	65	14	60	430	56	20	200	153	199	139	0	0								
1493+00.00	140	60	66	14	60	417	55	20	192	150	195	135	0	0								
1493+25.00	142	62	66	14	62	406	55	19	185	146	190	128	0	0								
1493+50.00	143	63	66	14	63	417	55	20	195	148	192	128	0	0								
1493+75.00	130	64	52	14	64	402	55	20	186	141	183	120	0	0								
1494+00.00	129	62	53	14	62	386	55	20	166	145	188	126	0	0								
1494+25.00	141	61	66	14	61	418	56	21	183	158	205	144	0	0								
1494+50.00	140	60	66	14	60	417	56	21	184	156	203	143	0	0								
1494+75.00	141	59	68	14	59	412	56	20	182	155	201	142	0	0								
1495+00.00	141	58	68	14	58	436	56	21	203	157	204	145	0	0								
1495+25.00	141	59	68	14	59	435	56	20	203	156	203	144	0	0								
1495+50.00	142	58	69	14	58	441	56	20	211	154	200	141	0	0								
1495+75.00	139	58	70	11	58	469	56	20	238	155	202	143	0	0								
1496+00.00	141	61	69	11	61	463	56	20	233	154	200	139	0	0								
1496+25.00	148	65	69	14	65	442	56	20	215	152	197	132	0	0								
1496+50.00	152	69	69	14	69	439	55	20	216	148	193	124	0	0								
1496+75.00	153	71	68	14	71	417	55	19	199	144	187	116	0	0								
1497+00.00	152	71	67	14	71	423	55	19	209	141	184	113	0	0								
1497+25.00	149	70	64	14	70	432	55	19	217	142	184	114	0	0								
1497+50.00	148	71	63	14	71	430	55	19	215	141	184	113	0	0								
1497+75.00	150	74	62	14	74	420	54	19	207	140	182	108	0	0								
1498+00.00	151	75	62	14	75	402	55	19	186	142	185	109	0	0								
1498+25.00	153	74	64	14	74	441	55	20	220	147	191	117	0	0								
1498+50.00	155	72	68	14	72	465	55	20	241	150	194	122	0	0								
1498+75.00	158	71	72	14	71	452	55	19	233	145	189	117	0	0								
1499+00.00	162	73	75	14	73	442	54	19	225	144	188	115	0	0								
1499+25.00	165	73	78	14	73	434	54	19	213	148	192	119	0	0								
1499+50.00	166	72	79	14	72	432	55	20	203	154	200	127	0	0								
1499+75.00	166	71	80	14	71	445	57	21	199	168	218	147	0	0								
1500+00.00	165	70	81	14	70	445	58	22	186	178	231	161	0	0								
1500+25.00	165	69	81	14	69	434	56	22	177	179	232	163	0	0								
1500+50.00	162	70	78	14	70	418	42	17	215	145	188	118	0	0								
1500+75.00	137	70	52	14	70	375	28	10	247	89	116	46	0	0								
1501+00.00	114	71	29	14	71	350	26	9	251	64	84	13	0	0								
1501+25.00	115	71	30	14	71	344	26	8	250	60	78	7	0	0								
1501+50.00	112	71	31	11	71	332	25	8	239	59	77	6	0	0								
1501+75.00	113	70	32	11	70	327	24	7	244	52	67	-3	0	0								
1502+00.00	112	69	29	14	69	350	25	8	262	56	73	4	0	0								
1502+25.00	107	65	27	14	65	409	27	10	298	75	97	32	0	0								
1502+50.00	103	61	28	14	61	459	28	10	339	81	106	45	0	0								
1502+75.00	98	58	27	14	58	493	29	11	370	84	109	51	0	0								
1503+00.00	98	58	27	14	58	493	29	11	370	84	109	51	0	0								
Totals:	9,967	4,731	4,291	945	4,731	28,726	3,415	1,252	14,445	9,614	12,498	7,767										

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut					Fill							Checks (EW-102)									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	[2]+[3]+[4]		Existing Revetment		[2]		Erosion Stone	Macadam Stone	Revetment Type B	[6]-[7]-[8]- [9]	[10]*1.3	[11]-[5]										
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Template Unsuitable Type A Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Template Granular Backfill Volume	Template Macadam Stone Volume	Template Revetment Type B Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Fill Adjusted w/ Shrink Minus Total Cut Adjusted	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink								
US-52																						
1503+00.00	93	57	26	11	57	507	29	11	381	86	112	55	0	0								
1503+25.00	93	57	25	11	57	501	29	11	372	89	115	58	0	0								
1503+50.00	98	58	25	14	58	511	29	11	381	90	117	58	0	0								
1503+75.00	100	60	26	14	60	468	29	11	340	88	115	55	0	0								
1504+00.00	101	61	26	14	61	425	29	11	300	86	112	51	0	0								
1504+25.00	101	60	26	14	60	422	29	11	298	85	110	50	0	0								
1504+50.00	100	59	26	14	59	425	29	11	300	85	111	52	0	0								
1504+75.00	98	58	26	14	58	391	29	11	265	86	111	53	0	0								
1505+00.00	97	57	25	14	57	356	29	11	228	87	114	57	0	0								
1505+25.00	95	55	25	14	55	379	30	11	248	91	118	63	0	0								
1505+50.00	95	55	25	14	55	429	30	12	294	93	121	66	0	0								
1505+75.00	115	55	45	14	55	511	43	16	329	123	159	104	0	0								
1506+00.00	136	57	64	14	57	541	57	22	295	167	217	160	0	0								
1506+25.00	133	58	60	14	58	608	60	24	339	185	241	183	0	0								
1506+50.00	114	59	41	14	59	614	59	23	362	170	222	162	0	0								
1506+75.00	117	59	44	14	59	542	58	22	297	164	213	154	0	0								
1507+00.00	133	57	62	14	57	569	59	23	312	175	228	171	0	0								
1507+25.00	132	57	61	14	57	542	59	23	285	176	228	171	0	0								
1507+50.00	130	56	61	14	56	493	59	23	232	178	232	176	0	0								
1507+75.00	127	51	62	14	51	525	58	22	273	172	223	172	0	0								
1508+00.00	125	48	63	14	48	532	58	22	284	168	218	171	0	0								
1508+25.00	123	46	63	14	46	507	59	23	247	178	232	186	0	0								
1508+50.00	122	45	62	14	45	550	60	24	281	185	241	196	0	0								
1508+75.00	123	44	64	14	44	563	58	22	308	174	227	182	0	0								
1509+00.00	126	44	67	14	44	534	58	22	279	175	227	183	0	0								
1509+25.00	121	43	63	14	43	552	60	24	280	188	245	201	0	0								
1509+50.00	118	42	61	14	42	538	60	24	264	190	247	204	0	0								
1509+75.00	118	42	62	14	42	541	60	24	271	186	242	200	0	0								
1510+00.00	121	42	64	14	42	538	59	23	271	185	240	198	0	0								
1510+25.00	121	43	64	14	43	498	59	24	229	186	241	198	0	0								
1510+50.00	119	44	61	14	44	531	60	24	264	184	240	196	0	0								
1510+75.00	119	43	62	14	43	547	61	25	268	194	253	209	0	0								
1511+00.00	120	45	61	14	45	518	61	25	231	201	261	216	0	0								
1511+25.00	122	47	61	14	47	519	61	24	243	191	249	202	0	0								
1511+50.00	127	48	65	14	48	518	59	24	249	186	242	193	0	0								
1511+75.00	129	50	65	14	50	530	59	23	264	184	239	190	0	0								
1512+00.00	131	55	61	14	55	521	60	23	256	182	237	182	0	0								
1512+25.00	145	68	63	14	68	475	59	23	211	182	236	168	0	0								
1512+50.00	143	66	63	14	66	479	59	23	221	176	229	163	0	0								
1512+75.00	133	57	62	14	57	504	58	22	254	170	220	164	0	0								
1513+00.00	134	57	63	14	57	509	58	22	257	172	223	166	0	0								
1513+25.00	132	56	62	14	56	518	59	23	259	177	230	175	0	0								
1513+50.00	129	54	60	14	54	533	60	23	266	184	239	185	0	0								
1513+75.00	127	53	60	14	53	542	61	25	262	194	252	199	0	0								
1514+00.00	129	53	61	14	53	563	61	25	279	198	257	204	0	0								
1514+25.00	134	54	66	14	54	547	60	24	270	193	250	197	0	0								
1514+50.00	138	55	69	14	55	510	60	24	229	197	256	201	0	0								
1514+75.00	140	59	66	14	59	525	60	24	251	190	248	189	0	0								
1515+00.00	139	62	63	14	62	519	59	23	257	180	234	172	0	0								
1515+25.00	138	62	61	14	62	501	60	23	235	182	237	175	0	0								
1515+50.00	137	62	60	14	62	526	60	23	258	184	239	176	0	0								
1515+75.00	136	61	61	14	61	529	60	23	265	181	235	174	0	0								
1516+00.00	136	60	62	14	60	542	59	23	283	177	230	170	0	0								
1516+25.00	135	59	62	14	59	544	60	23	283	178	232	173	0	0								
1516+50.00	134	58	61	14	58	526	60	23	261	182	237	178	0	0								
1516+75.00	132	56	61	14	56	562	60	23	295	184	239	183	0	0								
1517+00.00	130	54	62	14	54	559	60	23	292	184	239	186	0	0								
1517+25.00	130	51	64	14	51	550	59	23	292	177	231	179	0	0								
1517+50.00	125	50	66	10	50	563	59	22	306	176	229	179	0	0								
1517+75.00	123	49	64	10	49	526	60	23	257	186	242	193	0	0								
1518+00.00	124	49	62	14	49	515	61	25	233	196	255	206	0	0								
1518+25.00	125	49	62	14	49	540	60	24	270	186	242	193	0	0								
1518+50.00	128	50	64	14	50	544	59	22	292	171	222	172	0	0								
1518+75.00	128	51	63	14	51	562	59	22	309	172	223	173	0	0								
1519+00.00	129	52	63	14	52	586	59	23	327	177	230	178	0	0								
1519+25.00	131	54	63	14	54	552	46	18	338	149	194	140	0	0								
1519+50.00	124	61	49	14	61	427	31	13	278	104	136	75	0	0								
1519+75.00	117	66	37	14	66	342	30	12	207	93	120	54	0	0								
1520+00.00																						
Totals:	8,379	3,667	3,757	956	3,667	35,015	3,623	1,412	18,915	11,064	14,384	10,717										

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut					Fill							Checks (EW-102)									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	[2]+[3]+[4]		Existing Revetment		[2]		Erosion Stone	Macadam Stone	Revetment Type B	[6]-[7]-[8]- [9]	[10]*1.3	[11]-[5]										
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Template Unsuitable Type A Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Template Granular Backfill Volume	Template Macadam Stone Volume	Template Revetment Type B Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Fill Adjusted w/ Shrink Minus Total Cut Adjusted	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink								
US-52																						
1520+00.00	127	61	52	14	61	410	42	15	242	111	145	84	0	0								
1520+25.00	135	56	65	14	56	509	56	19	290	145	188	132	0	0								
1520+50.00	133	55	64	14	55	516	58	21	274	163	212	157	0	0								
1520+75.00	132	54	64	14	54	517	58	21	275	163	212	158	0	0								
1521+00.00	127	52	64	10	52	525	57	20	291	157	204	152	0	0								
1521+25.00	125	50	64	11	50	504	57	20	273	153	199	149	0	0								
1521+50.00	125	48	63	14	48	547	58	21	307	161	210	162	0	0								
1521+75.00	123	47	62	14	47	556	59	22	303	173	224	178	0	0								
1522+00.00	121	46	61	14	46	558	60	23	293	181	236	190	0	0								
1522+25.00	119	45	60	14	45	569	61	24	295	190	247	202	0	0								
1522+50.00	120	45	61	14	45	552	62	25	266	199	259	214	0	0								
1522+75.00	120	45	61	14	45	606	62	25	316	203	264	219	0	0								
1523+00.00	120	45	61	14	45	610	62	25	320	202	263	218	0	0								
1523+25.00	123	47	62	14	47	604	62	25	316	201	261	214	0	0								
1523+50.00	125	48	62	14	48	643	61	24	361	196	255	207	0	0								
1523+75.00	127	49	64	14	49	589	61	24	311	193	251	202	0	0								
1524+00.00	130	51	65	14	51	568	61	24	291	192	250	199	0	0								
1524+25.00	129	51	64	14	51	588	61	24	306	196	255	204	0	0								
1524+50.00	123	47	62	14	47	603	62	25	313	203	263	217	0	0								
1524+75.00	118	44	60	14	44	641	63	26	341	211	274	231	0	0								
1525+00.00	118	43	60	14	43	618	63	26	315	213	277	234	0	0								
1525+25.00	120	44	61	14	44	625	62	25	334	203	264	219	0	0								
1525+50.00	121	46	61	14	46	624	62	25	339	198	257	210	0	0								
1525+75.00	120	48	58	14	48	572	63	26	278	205	267	219	0	0								
1526+00.00	119	47	58	14	47	651	63	25	362	202	262	215	0	0								
1526+25.00	119	46	59	14	46	682	62	24	405	191	249	203	0	0								
1526+50.00	120	46	59	14	46	638	61	24	365	188	244	198	0	0								
1526+75.00	118	48	60	11	48	664	61	23	394	186	241	194	0	0								
1527+00.00	122	50	61	11	50	620	61	24	340	194	253	202	0	0								
1527+25.00	133	58	61	14	58	574	61	24	295	194	252	194	0	0								
1527+50.00	132	56	61	14	56	588	61	23	320	184	239	183	0	0								
1527+75.00	126	49	62	14	49	551	61	24	278	188	245	196	0	0								
1528+00.00	128	49	64	14	49	534	61	24	260	190	246	197	0	0								
1528+25.00	133	49	69	14	49	550	58	20	312	160	208	159	0	0								
1528+50.00	137	49	74	14	49	555	55	17	349	134	174	125	0	0								
1528+75.00	142	49	79	14	49	543	57	20	302	163	212	163	0	0								
1529+00.00	138	48	76	14	48	512	60	23	239	189	246	197	0	0								
1529+25.00	127	47	66	14	47	529	60	23	262	184	239	192	0	0								
1529+50.00	125	45	66	14	45	553	61	24	277	191	248	204	0	0								
1529+75.00	125	43	68	14	43	543	62	24	259	198	257	215	0	0								
1530+00.00	123	41	67	14	41	537	60	23	271	183	237	196	0	0								
1530+25.00	124	41	68	14	41	522	60	23	257	182	237	196	0	0								
1530+50.00	124	40	70	14	40	523	61	24	241	197	256	216	0	0								
1530+75.00	121	37	70	14	37	532	60	23	265	184	239	202	0	0								
1531+00.00	121	38	69	14	38	513	59	21	265	169	219	182	0	0								
1531+25.00	120	37	69	14	37	503	59	21	255	168	219	182	0	0								
1531+50.00	103	37	55	11	37	497	59	22	250	166	216	179	0	0								
1531+75.00	100	39	54	7	39	521	60	22	264	175	228	189	0	0								
1532+00.00	114	40	64	11	40	558	61	23	286	187	244	204	0	0								
1532+25.00	123	41	67	14	41	561	61	24	278	198	257	216	0	0								
1532+50.00	125	43	67	14	43	552	61	24	267	199	259	215	0	0								
1532+75.00	123	46	63	14	46	554	62	24	276	193	251	205	0	0								
1533+00.00	126	48	64	14	48	559	62	25	271	201	261	213	0	0								
1533+25.00	126	47	65	14	47	553	62	24	271	197	256	208	0	0								
1533+50.00	113	47	51	14	47	539	61	23	278	178	231	184	0	0								
1533+75.00	115	47	53	14	47	538	61	24	266	188	244	197	0	0								
1534+00.00	126	46	66	14	46	551	61	24	273	193	251	205	0	0								
1534+25.00	125	46	66	14	46	560	61	23	292	184	239	194	0	0								
1534+50.00	129	46	69	14	46	560	61	24	281	194	252	206	0	0								
1534+75.00	109	46	49	14	46	530	60	22	275	172	224	178	0	0								
1535+00.00	94	48	32	14	48	516	58	20	289	148	192	144	0	0								
1535+25.00	114	49	51	14	49	550	59	21	311	160	208	159	0	0								
1535+50.00	136	49	73	14	49	568	59	23	302	184	239	190	0	0								
1535+75.00	138	49	74	14	49	549	60	23	274	191	249	200	0	0								
1536+00.00	126	49	66	11	49	546	60	22	283	180	234	185	0	0								
1536+25.00	127	49	68	11	49	545	61	23	277	185	240	191	0	0								
1536+50.00	135	50	71	14	50	548	61	24	270	194	252	203	0	0								
1536+75.00	132	50	68	14	50	541	60	23	276	183	238	188	0	0								
1537+00.00																						
Totals:	8,417	3,191	4,290	936	3,191	38,068	4,089	1,565	19,935	12,479	16,222	13,031										

CROSS SECTION VIEW COLOR LEGEND			
Design Color No.	Feature	Design Color No.	Feature
Aggregate		Grading	
(64)	Choke Stone	(8)	Behind Curb Cut
(42)	Engineering Fabric	(6)	Granular
(8)	Flooded Backfill	(13)	Granular Back Fill
(92)	Macadam Stone	(48)	Rock Undercut
(20)	Modified	(8)	Shoulder Earth Fill
(12)	Plowing Shaping	(2)	Side Slopes
(14)	Porous Backfill	(226)	Side Slopes Dressing
(8)	Revetment Class A	Substrata	
(6)	Revetment Class B	(128)	Boulder
(62)	Revetment Class C	(209)	Boulder Removed
(188)	Revetment Class D	(48)	Broken Weathered
(28)	Revetment Class E	(210)	Broken Weathered Removed
(12)	Shoulder Special Backfill	(3)	Core Out
(12)	Special Backfill	(115)	Core Out Remove Only
(20)	Subbase	(195)	Core Out Remove and Replace
(20)	Subbase Lower	(203)	Existing Pavement
(20)	Subbase Upper	(184)	Existing Pavement Remove Only
(118)	Subgrade Treatment	(200)	Existing Pavement Remove and Replace
Asphalt		(6)	Loam
(207)	HMA Base Course	(211)	Loam Removed
(207)	HMA Interim Course	(80)	Rock
(207)	HMA Surface Course	(212)	Rock Removed
Bridge		(4)	Select Sand
(0)	Bridge	(214)	Select Sand Removed
Concrete		(3)	Shale
(0)	Barrier Concrete	(215)	Shale Removed
(0)	Barrier Concrete Footing	(10)	Topsoil
(0)	Curb Gutter	(2)	Topsoil Remove Only
(48)	Flowable Mortar	(4)	Topsoil Remove and Replace
(0)	Median Concrete	Unsuitable / Waste	
(0)	PCC Pavement	(3)	Unsuitable Type A
(0)	Sidewalk	(216)	Unsuitable Type A Removed
Existing		(13)	Unsuitable Type B
(0)	Existing Pavement	(217)	Unsuitable Type B Removed
Shoulder		(11)	Unsuitable Type C
(209)	Shoulder HMA	(218)	Unsuitable Type C Removed
(0)	Shoulder PCC	(3)	Waste
(6)	Shoulder Granular	(219)	Waste Removed
Structural			
(112)	Noise Wall		
(112)	Noise Wall Footing		
(112)	Retaining Wall Back		
(112)	Retaining Wall Back Excavate		
(112)	Retaining Wall Face		
(112)	Retaining Wall Front Excavate		
(112)	Retaining Wall Front Footing		
(112)	Retaining Wall MSE Gutter		
(112)	Retaining Wall Reinforced Earth		

NOTES:

CROSS SECTIONS AND EMBANKMENT QUANTITIES ARE BASED OFF OF A FLAT POOL ELEVATION OF 582.3. CONDITIONS IN THE FIELD MAY VARY WHICH CAN ADJUST AS-BUILT EMBANKMENT QUANTITIES.

CROSS SECTIONS
LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

