PCC Pavement, Grade and New
NHSN-075-2(137)--2R-75

LETTING DATE
Nov 17 2026

PLYMOUTH COUNTY

T-90N

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IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
PLYMOUTH COUNTY
PCC Pavement, Grade and New
US Highway 75 and C70 & C80 Intersections

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

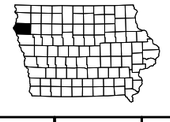
Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The Contractor shall carry out the terms and conditions of General permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.

REVISIONS

TOTAL	191
PROJECT IDENTIFICATION NUMBER	26-75-075-020
PROJECT NUMBER	NHSN-075-2(137)--2R-75
R.O.W. PROJECT NUMBER	

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US 75		
DESIGN DATA RURAL		
2024 AADT	17,500	V.P.D.
20 – AADT	–	V.P.D.
20 – DHV	–	V.P.H.
TRUCKS	26	%
Total Design ESALs	–	

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	James Watters	Primary Signature Block	X

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
JAMES A. WATTERS
P24847
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature — 09-04-2026 Date

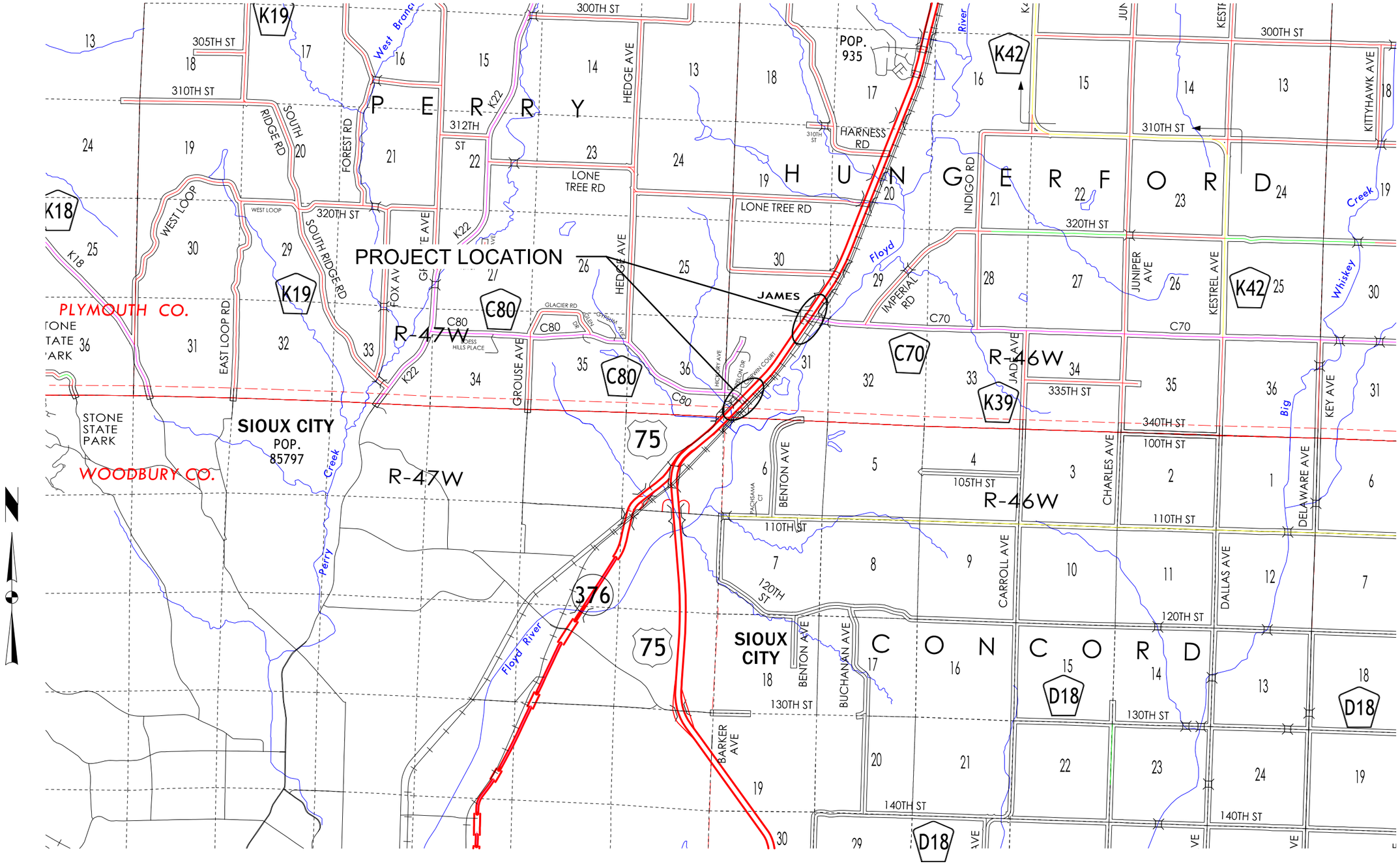
James Watters
Printed or Typed Name

My license renewal date is December 31, 20 27

Pages or sheets covered by this seal: A.1-3, B.1-3, C.1-27, CS.1-4, D.1-5, G.1-2, J.1-51, L.1-6, RC.1-2, RR.1-8, T.1-12, U.1-5, VW.1-3, W.1-60

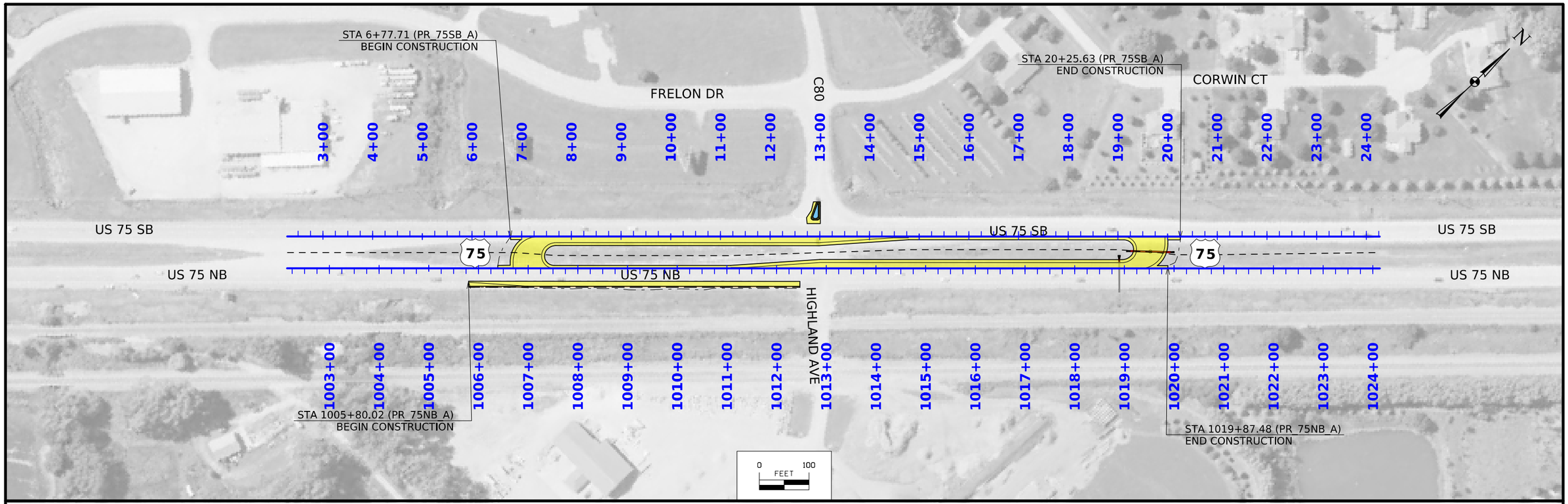
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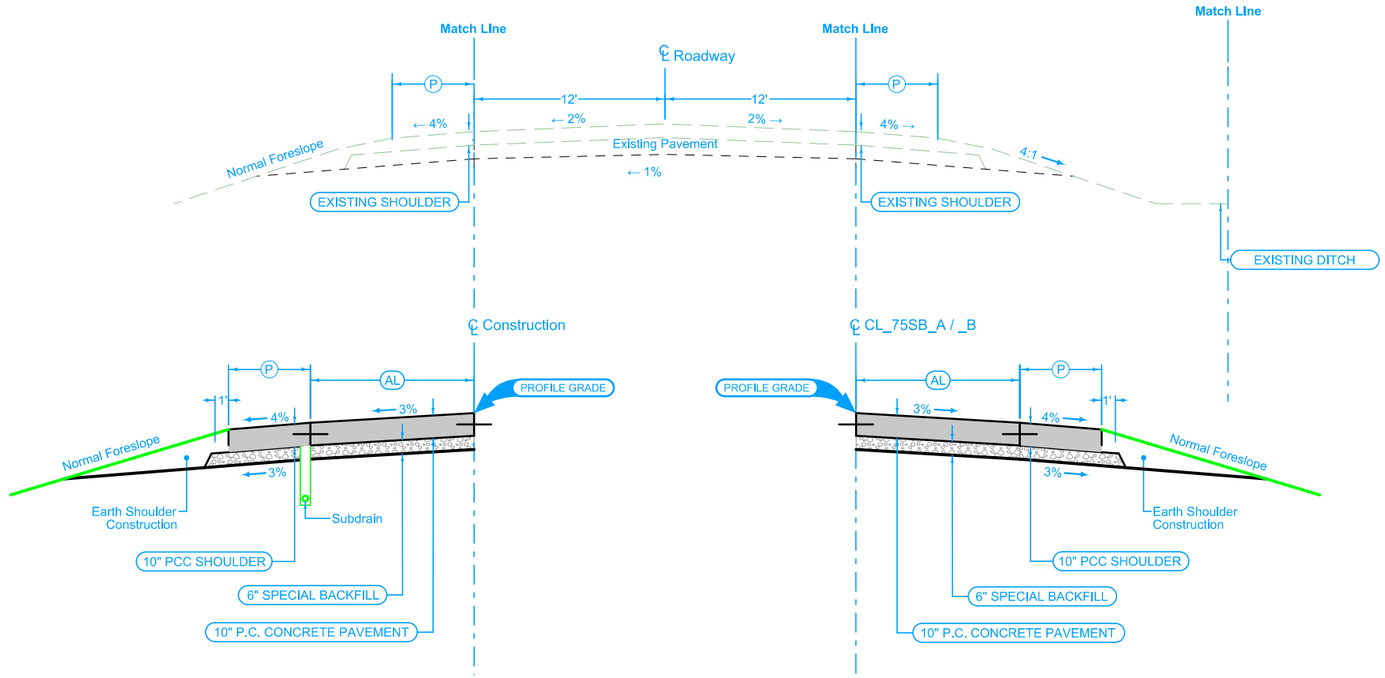
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GENERAL LAYOUT

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER A.3

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Auxiliary Lane
Full Depth Shoulder

Auxiliary Lane

Longitudinal joint: L or BT
Transverse joint: CD Match Mainline

PCC Shoulder Jointing:
Longitudinal joint: L-2 or BT-3
Transverse joints: C Match Auxiliary Lane

			4_AuxLane_PCC_ 10-18-16	4_AL_Shldr_FullPPC_ MODIFIED	
ALIGNMENT	BEGIN STATION	END STATION	(AL) Feet	(P) Feet	NOTE
PR_75SB_B	69+49.94	75+54.75	12	6	C70
PR_75SB_B	69+54.75	77+05.54	12 - 2	6 - 8	
PR_75SB_B	77+05.54	77+35.68	2	8	

Auxiliary Lane
Full Depth Shoulder

Auxiliary Lane

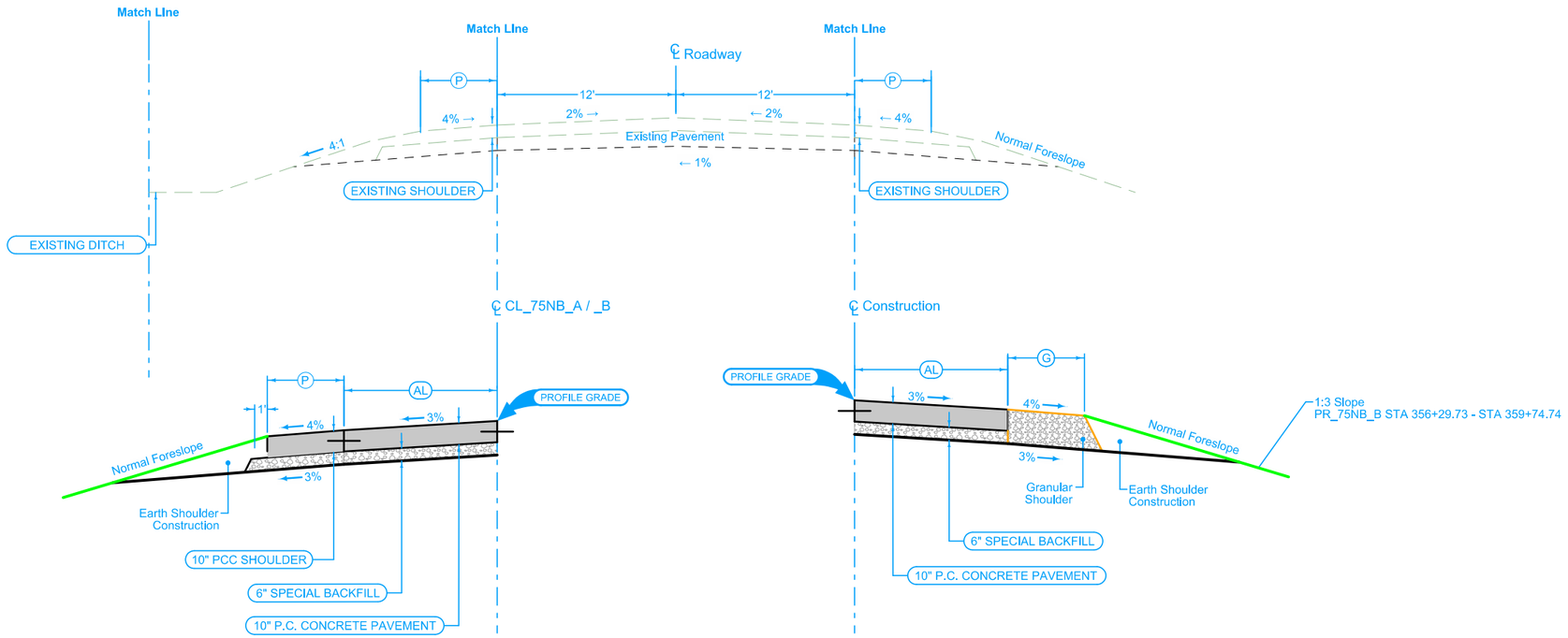
Longitudinal joint: L or BT
Transverse joint: CD Match Mainline

PCC Shoulder Jointing:
Longitudinal joint: L-2 or BT-3
Transverse joints: C Match Auxiliary Lane

			4_AuxLane_PCC_ 10-18-16	4_AL_Shldr_FullPPC_ MODIFIED	
ALIGNMENT	BEGIN STATION	END STATION	(AL) Feet	(P) Feet	NOTE
PR_75SB_A	6+77.73	6+98.41		6	C80
PR_75SB_A	7+69.00	12+99.01	12	6	
PR_75SB_A	13+01.01	14+48.71	12 - 2	6	
PR_75SB_A	14+48.71	14+78.60	2	6 - 4	
PR_75SB_A	14+78.60	19+02.56		6	
PR_75SB_A	20+00.63	20+25.63		6	
PR_75SB_B	62+90.72	63+11.93		6	C70
PR_75SB_B	63+81.43	69+09.53	12	6	
PR_75SB_B	69+09.53	70+61.10	12 - 2	6	
PR_75SB_B	70+61.10	70+91.03	2	6 - 4	
PR_75SB_B	70+91.03	74+93.62		6	
PR_75SB_B	76+96.28	77+00.30		6	

See Tab 100-24 or 100-25 for pavement quantities.
See Tab 112-9 for shoulder quantities.

U.S 75 SB



Auxiliary Lane
Full Depth Shoulder

Auxiliary Lane

Longitudinal joint: L or BT
Transverse joint: CD Match Mainline

PCC Shoulder Jointing:
Longitudinal joint: L-2 or BT-3
Transverse joints: C Match Auxiliary Lane

			4_AuxLane_PCC_ 10-18-16	4_AL_Shldr_FullPPC_ MODIFIED	
ALIGNMENT	BEGIN STATION	END STATION	(AL) Feet	(P) Feet	NOTE
PR_75NB_A	1006+38.80	1006+63.80		6	C80
PR_75NB_A	1007+51.97	1011+07.48		6	
PR_75NB_A	1011+07.48	1011+37.82	2	4 - 6	
PR_75NB_A	1011+37.82	1012+87.48	2 - 12	6	
PR_75NB_A	1012+87.48	1018+98.49	12	6	
PR_75NB_A	1019+66.13	1019+87.48		6	
PR_75NB_B	1061+68.55	1062+93.68		6	C70
PR_75NB_B	1064+01.21	1067+98.88		6	
PR_75NB_B	1067+98.88	1068+28.81	2	4 - 6	
PR_75NB_B	1068+28.81	1069+78.48	2 - 12	6	
PR_75NB_B	1069+78.48	1075+08.48	12	6	
PR_75NB_B	1075+77.88	1075+98.38		6	

Auxiliary Lane

Longitudinal joint: BT
Transverse joint: CD Match Mainline

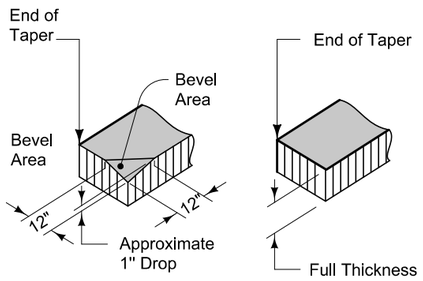
Auxiliary Lane
Granular Shoulder

			4_AuxLane_PCC_ 10-18-16	2_AL_Shldr_G_ 04-21-20	
ALIGNMENT	BEGIN STATION	END STATION	(AL) Feet	(G) Feet	NOTE
PR_75NB_A	1005+80.02	1012+47.00	10	2	C80
PR_75NB_B	1061+75.79	1068+85.50	10	1	C70
PR_75NB_B	1068+85.50	1069+22.63	10 - 18	1	

See Tab 100-24 or 100-25 for pavement quantities.
See Tab 112-9 for shoulder quantities.

U.S 75 NB

7101
10-19-10



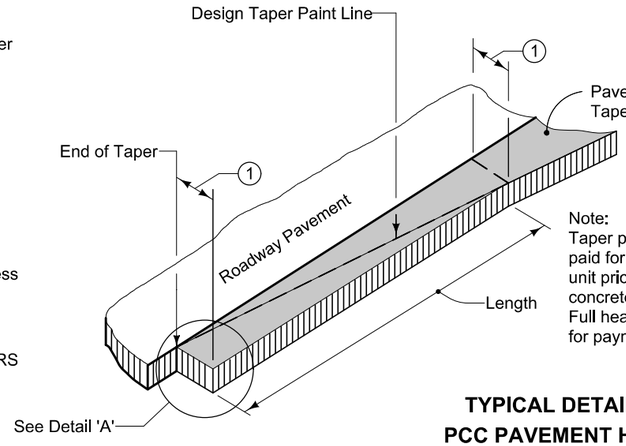
DETAIL 'A'

FOR
GRANULAR SHOULDERS

DETAIL 'A'

FOR
PAVED SHOULDERS

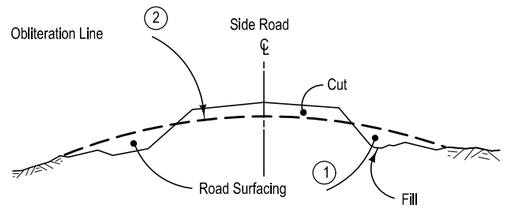
(1) Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).



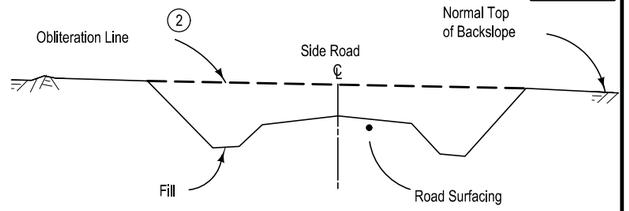
Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

TYPICAL DETAILS OF PCC PAVEMENT HEADER

4302
04-03-01



Fill Section



Cut Section

(1) Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.

(2) When specified, the upper 1' to be suitable for vegetation (grass or crops).

Note:
The work of obilterating or reshaping old roadbeds shall be done at the direction of the Engineer.

TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2102-0425071	SPECIAL BACKFILL	CY	4,477.3	Refer to Tabs 112-9, 100-24, and Typical Sections in the B Sheets.
2	2102-2625000	EMBANKMENT-IN-PLACE	CY	387	Refer to T Sheets. Provide borrow material according to Section 2102 of the Standard Specifications. Material shall be provided by the Contractor.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	1,855	Refer to T Sheets.
4	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	1,135	Refer to T Sheets. Dispose of excess material according to Article 1106.07 of the current specifications. Contractor can only waste material once it is clear more than enough fill is available for the roadway.
5	2102-5020010	OBLITERATE OLD ROADBED	STA	0.6	A. The work consists of obliterating Fulton Street at the intersection with US75 SB as shown on Typical 4302. B. Method of measurement will be in stations measured along centerline of old roadbed. C. Basis of payment will be the contract unit price for the number of stations of old roadbed obliterated. Payment is full compensation for construction as shown on Typical 4302. Excavation will not be paid separately. Pavement removal is bid separately.
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	2,349	Refer to Tab 103-10 and the T Sheets. Strip and salvage 6 inches of topsoil within the grading limits. After constructing earthwork up to the subgrade elevations, spread the stockpiled topsoil to a 4 inch depth across the entire grading area. Topsoil determined to be unsuitable, including live vegetation, shall be removed from the site and properly disposed of, and is incidental to this item. Quantity includes 2349 CY of stripping x inches and 1809 CY of placement which includes a 40% shrink factor. Excess topsoil to be placed on the foreslopes and backslopes within the project limits, as approved by the Engineer.
7	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	2,242	Refer to Tab. 103-6. Cubic yards shown on the contract documents as determined by the template fill volume. Shrinkage will not be included in the moisture control quantity.
8	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	526.2	Refer to Tab. 104-3 for locations. To be placed between subbase and flooded backfill at culvert crossings.
9	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	194.2	Refer to Tab. 112-9. Estimated at 1.9 ton/cu yd.
10	2122-5190010	PAVED SHOULDER, P.C. CONCRETE, 10 IN.	SY	4,170.3	Refer to Tab. 112-9.
11	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	74.47	Refer to Tab. 112-9. Requires a minimum of 4 inches of topsoil. Place according to Article 2105.03.B of the Standard Specifications.
12	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN.	SY	7,621.3	Refer to Tab 100-24 and B Sheets for locations. Integral curb is included in this item. Certified plant inspection and the development of a maturity curve is required and incidental to this item.
13	2301-4875006	MEDIAN, P.C. CONCRETE, 6 IN.	SY	21.5	Refer to Tab 112-4 for location. Certified plant inspection is required and is incidental to this item.
14	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	8,917	Contractor may use non-destructive methods for determining pavement thickness at no additional cost to the Contracting Authority.
15	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	5,716	
16	2402-0425040	FLOODED BACKFILL	CY	193	Refer to Tab 104-03.
17	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	245.1	Refer to Tab 104-03 for locations and details. Includes filling and compacting low areas around proposed culvert. Includes excavation necessary to place 6" bedding.

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Reference Notes
18	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	2	Refer to Tab 104-03.
19	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	278	
20	2417-0330024	APRONS, SAFETY SLOPE, 24 IN. DIA.	EACH	6	
21	2502-6745952	REMOVAL OF SUBDRAIN	LF	1,657	Refer to Tab 110-19. Subdrain locations and quantities are based on previous project as-built drawings. Locations of existing subdrain shall be verified in the field. The quantity of subdrain removed will be measured in linear feet from end to end of the subdrain removed in conjunction with pavement removal. Payment will be made at the contract unit price per linear foot for Removal of Subdrain. This payment is full compensation for removal, disposal, and capping of the subdrain, if required.
22	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	897	Refer to Tab 104-09A and Typicals on B Sheets. All fittings and connections are incidental. Subdrain locations and quantities are based on previous project as-built drawings. Locations of existing subdrain shall be verified in the field.
23	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	3	Refer to Tab 104-09A and Typicals on B Sheets. All fittings and connections are incidental. Subdrain locations and quantities are based on previous project as-built drawings. Locations of existing subdrain shall be verified in the field.
24	2507-3250005	ENGINEERING FABRIC	SY	47.4	Refer to Tab 100-23. Verify the specific locations with the Engineer prior to beginning placement. Use material specified for embankment erosion control according to Article 4196.01, B, 3. Material will be measured in SY of the actual area covered. The tabulation includes estimated locations for placement of "Engineering Fabric" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 30% additional quantity for other locations of erosion.
25	2507-8029000	EROSION STONE	TON	26.01	Refer to Tab 100-23 and RR Sheets. The tabulation includes estimated locations for placement of "Erosion Stone" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 30% additional quantity for other locations of erosion. Estimated at 1.6 ton/cu yd. Erosion stone shall meet the requirements of Article 4130.
26	2510-6745850	REMOVAL OF PAVEMENT	SY	12,868	Refer to Tab 110-1. Existing pavement thickness is assumed to be 12 inches or less. The Contractor is responsible for replacing any damaged pavement beyond the removal limits at no cost to the Owner. For removal of the median crossing south of C80, ditch grading, cable barrier, and pipe culvert removal shall be considered incidental to this item.
27	2512-1725206	CURB AND GUTTER, P.C. CONCRETE, 2.0 FT.	LF	69.2	Refer to Tab 100-05 and Typicals on B Sheets for locations. Certified plant inspection is required and is incidental to this item.
28	2524-6765210	REMOVAL OF TYPE A SIGN ASSEMBLY	EACH	6	Refer to Tab 190-62 and U Sheets for locations 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.
29	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	LS	1	Item is for layout of the existing and proposed ROW/easements in the project area. Railroad ROW must be marked with orange construction fence at the ROW line and shall be considered incidental to this item.
30	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1	Item is for construction staking and includes layout of the project grading limits and existing and proposed ROW/easements in the project area. Staking shall include all items necessary to complete construction per project plans.
31	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	35	Refer to Tab 108-29, U Sheets, and DS-23079.
32	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	68.24	Refer to Tab 108-22 and U Sheets.
33	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	125.56	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
34	2527-9263225	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL	STA	28.82	Refer to Tab 108-22, U Sheets, and DS-23079.
35	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	152.84	
36	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	35	Refer to Tab 108-29, U Sheets, and DS-23079.
37	2528-2518000	SAFETY CLOSURE	EACH	11	Refer to Tab 108-13A and J Sheets.
38	2528-2518181	PERMANENT ROAD CLOSURE, RURAL, SI-181	LF	24	Refer to Tab 112-4.
39	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Tab 108-23A and J Sheets. Contractor shall be responsible for detour signing.
40	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0	See proposal.
41	2533-4980005	MOBILIZATION	LS	1	Includes all costs associated with mobilization for the entire project.
42	2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	56.62	Refer to Tab 112-10.
43	2601-2633100	MOWING	ACRE	6.28	Estimate is based on two mowings of all seeded areas as directed by the Engineer. In areas inaccessible to field equipment, cut with appropriate hand equipment and keep current with the mowing of adjacent areas.
44	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	3.14	Item is included for disturbed areas as directed by the Engineer. Apply Bonded Fiber Matrix as the mulch for all seeding areas. Apply seed and fertilizer for the area to be covered before appyling Bonded Fiber Matri Mulch. Apply Bonded Fiber Matrix Mulch at a rate of a minimum of 3000 pounds per acre.
45	2601-2636015	NATIVE GRASS SEEDING	ACRE	0.09	Seed all areas outside eight feet adjacent to outside shoulder along mainline, side roads, and infield areas at interchanges with "Native Grass Seeding". Supply all seed for "Native Grass Seeding". Apply all Forb seed through the native grass drill wildflower or small seed box. Do not mix and apply Forb seed with the native grass seed. Apply cover crop through the cool season or through cover crop seed box. Do not mix and apply cover crop seed with the native grass seed. Remove seed remaining in the drill at the end of each day. At the completion of all seeding, remove remaining seed from the drill by vacuum or other means. Hand broadcast remaining seed on the project. The Engineer will review the limits with the Contractor prior to seeding. Seeding and seed bed preparation shall be as described in the Standard Specifications Section 2601 and as shown on theplans. See RR Sheets for details.
46	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	3.05	Seed and fertilize all areas 8 feet adjacent to the mainline shoulder and medians according to Article 2601.03, C, 3, of the Standard Specifications.
47	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	0.31	Item is included for temporary disturbed area sediment control at locations to be determined during construction. Quantity was estimate at 10% of the Seeding and Fertilizing (Rural) quantity. Verify specific locations with the Engineer prior to beginning placement. Seed and fertilize all disturbed areas according to Article 2601.03, C, 1, of the Standard Specifications.
48	2602-0000020	SILT FENCE	LF	2,712	Refer to Tab 100-17 and RR Sheets. The tabulation includes estimated locations for placement of "Silt Fence" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements. See Standard Road Plan EC-201. The engineer may adjust silt fence locations to fit field conditions.
49	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	1,260	Refer to Tab 100-18 and RR Sheets. The tabulation includes estimated locations for placement of "Silt Fence for Dtich Checks" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.
50	2602-0000050	SILT BASINS	EACH	12	Refer to Tab 100-14 and RR Sheets. The tabulation includes estimated locations for placement of "Silt Basins" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 100% additional quantity for field adjustment and maintenance.
51	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1,986	This item is included for Silt Fence and Silt Fence for Ditch Check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth. Remove silt fence and posts after mulching or vegetation is established and approved by the engineer.
52	2602-0000080	REMOVAL OF SILT BASINS	EACH	12	Refer to Tab 100-14 and RR Sheets.
53	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	397	This item is included for clean-out and repair of Silt Fence and Silt Fence for Ditch Checks during the project.
54	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	200	Item is included for temporary perimeter sediment control, inlet protection, and water velocity reduction on slopes or at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
55	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	360	Refer to RR Sheets and Tab 100-19. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 20 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements. Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior.
56	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	960	Refer to RR Sheets and Tab 100-19. Bid item includes 25% additional quantity for field adjustments and replacements. Remove Perimeter and Slope Sediment Control Devices and Ditch Check Devices after mulching or vegetation is established and approved by the engineer.
57	2602-0000362	DITCH CHECK SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	200	Item is included for temporary perimeter sediment control and water velocity reduction in ditches at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement.
58	2602-0000370	DITCH CHECK SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	200	Item is included for temporary sediment control and water velocity reduction in ditches at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement.
59	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	Each stage is estimated to include one mobilization for erosion control.
60	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	
61	2612-0000520	ROADSIDE SPRAY FOR WEED CONTROL	ACRE	3.14	Furnish and spot spray clopyralid to patch infestations of thistle and teasel species, and if directed by the Engineer, to other weed species. The Engineer will notify the Contractor to begin each spraying. The Contractor will be charged working days, beginning with the 3rd working day after notification to start spraying until each spraying is complete. Timing of herbicide application shall be made at the weed's recommended growth stage according to manufacturer's label directions for Canada thistle. This is from full leaf expansion to early bud stage, unless otherwise listed in label directions. LOCATION: Identify thistle and teasel infestation within all seeding areas. The rate shall be clopyralid herbicide 4.3 oz./acre active ingredient (e.g. for 40.9% active ingredient products apply at 10.5 oz./acre). According to label directions: use a surfactant, a drift control agent, and re-add the agent to the herbicide to maintain drift control throughout the application period. Use hand equipment for spot spraying of all thistle by close-up comprehensive drive through the seeding areas. Method of Measurement The quantity of Roadside Spray For Weed Control for which payment is made will be the acres displaying complete visual herbicide control response. Basis of Payment For the number of acres of Roadside Spray For Weed Control designated by the Engineer, the Contractor will be paid contract unit price based on the measured area displaying a complete visual herbicide control response. This payment will be full compensation for all labor, equipment, and materials for this item.

100_01D

8/15/22

PROJECT DESCRIPTION

This project involves the conversion of the intersections of United States Highway 75 (US75) and Plymouth County Roads 70 and 80 (C70 and C80) from median crossovers intersections to reduced conflict intersections (RCIs) in Plymouth County, Iowa.

Project limits at the C80 intersection start 730 feet south of the intersection and extend north 730 feet from the intersection. Project limits at the C70 intersections start 780 feet south of the intersection and extend north 820 feet from the intersection.

Ancillary work includes pipe culvert extensions, ditch grading, pavement markings, turf establishment, and erosion control devices.

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
BA-351	10-19-21	High Tension Cable Guardrail
DR-101	04-18-17	Pipe Culvert (Bedding and Backfill)
DR-102	04-21-15	Pipe Culvert (Cover and Camber)
DR-103	04-21-15	Pipe Culvert (Installation Details)
DR-104	04-19-16	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-122	10-18-16	Construction of Type 'C' Concrete Adaptors for Pipe Culvert Connections
DR-201	10-17-23	Concrete Aprons
DR-211	04-21-20	Metal Safety Slope Apron 6
DR-303	10-17-17	Subdrains (Longitudinal)
DR-306	10-17-23	Precast Concrete Headwall for Subdrain Outlets
DR-601	04-18-17	Reinforced Concrete Pipe Culvert
DR-621	04-18-17	Pipe Extension
EC-201	04-20-21	Silt Fence
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EC-301	10-18-22	Rock Erosion Control (REC)
EC-502	04-21-15	Seeding in Rural Areas
EW-105	04-21-15	Reshaping Slopes and Ditches
EW-403	04-18-17	Temporary Erosion Control Measures
PM-110	10-15-24	Line Types
PM-111	04-21-20	Symbols and Legends
PM-115	10-20-26	Grooving for Line Types
PM-116	04-16-24	Grooving for Symbols and Legends
PM-120	10-15-24	Stop Lines and Islands
PV-12	10-20-26	Milled Shoulder Rumble Strips
PV-20	10-21-14	Paved Islands
PV-101	10-20-26	Joints
PV-102	10-21-25	PCC Curb Details
PV-104	10-21-25	Ramped Median Nose
PV-105	10-21-14	PCC Pavement Widening
PV-121	10-21-25	Jointing PCC Pavement Widening
TC-252	10-20-26	Routes Closed to Traffic
TC-402	04-18-23	Work Within 15 ft of Traveled Way
TC-418	04-18-23	Lane Closure on Divided Highway

111_25
4/21/26

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3.0	100_17	TABULATION OF SILT FENCES	C.24
4.0	100_18	SILT FENCES FOR DITCH CHECKS	C.25
5.0	100_19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	C.26
6.0	100_23	ROCK EROSION CONTROL	C.27
7.0	100_24	PCC PAVEMENT	C.13
8.0	101_16	ALIGNMENT COORDINATES	G.1
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231_02
3/14/24

HERBICIDE

For all herbicide applications, the following provisions shall apply.

1. Follow all laws, rules and regulations related to the handling of pesticides, including but not limited to:
   a. Follow all herbicide label directions, restrictions, and precautions.
   b. The company responsible for the herbicide applicator must be licensed with Iowa Department of Agriculture and Land Stewardship (IDALS) as a commercial pesticide applicator company.
   c. The person applying the herbicide must be certified through IDALS as a pesticide applicator in Category 6, Right-of-Way. For herbicide applications that require an aquatic certification, the applicator must also be certified as a pesticide applicator in Category 5, Aquatics.
   d. Use herbicide and adjuvant products labeled for the application site:
      i. For applications on the primary highway right-of-way, use only products labeled for use on highway rights-of-way or roadsides.

      ii. For applications to or over water, use only products labeled for corresponding use in aquatic sites, unless intermittent pockets of standing water, such as tire ruts, and the product is labeled for such use.
      iii. For applications to areas in the water conveyance portion of the ditch that do not contain water at the time of application, use only products labeled for non-irrigation ditch banks or aquatic sites.

   e. Do not apply any herbicide to or over standing or flowing water unless required coverage is obtained under a National Pollutant Discharge and Elimination System (NPDES) Pesticide Discharge Permit through Iowa DNR. If standing or flowing water is encountered in areas when they need to be sprayed, notify Iowa DOT (Roadside Development) to determine required coverage.

2. Schedule work according to weather conditions and take measures to avoid off-target damage, such as runoff, leaching, drift and volatilization.
   a. Do not spray herbicide 24 hours prior to forecast precipitation that is expected to cause significant runoff conditions.
   b. For areas with saturated soil, such as ditch bottoms, do not spray herbicide 24 hours prior to forecast precipitation, unless using products labeled for aquatic sites.
   c. For conventional applications, avoid applications when wind speed exceeds 10 mph. For invert applications, avoid applications when wind speed exceeds 15 mph.
   d. For conventional foliar applications, use a drift retardant and maintain drift control throughout the application period by adding more to the tank as it breaks down from agitation.
   e. Avoid spraying volatile products when temperatures are forecast to exceed 85° F within 3 days.
   f. Check the IDALS Sensitive Crops Directory and do not spray adjacent to a listed operation when wind is blowing towards it.

3. Respond to allegations of any off-target damage attributed to handling and spraying of herbicide.

4. Provide the following documents to the Engineer for approval not less than 2 weeks prior to the application.
   a. A copy of the herbicide and adjuvant labels, including any applicable supplemental labels.
   b. A copy of the herbicide and adjuvant Material Safety Data Sheets (MSDS.)

5. Have copies of the herbicide and adjuvant labels and MSDSs on-hand and at locations of storage, transport, and application.

6. Schedule work to maximize efficiency of the herbicide application in relation to weather conditions and plant growth stage. Follow any label recommendations given as “for best results.”
   a. For weed applications:
      i. To determine if weeds are “actively growing,” use as

231_02
3/14/24

HERBICIDE

a guideline that there needs to have been at least 1 hour of temperature above 65° F and 1 hour of sun in the day prior to, of, or forecast before a rain the day after the application.
      ii. For spring applications to thistles, apply after basal leaves of Canada thistles are fully extended, and after rosettes of musk thistle are at least 8 inches diameter, but before flower stage.

      iii. For fall applications to thistles, apply prior to the second hard freeze of 28° F, unless otherwise listed in the label directions.

   b. For tree and brush applications:
      i. For foliar applications and cut stump/surface applications with water-soluble products, apply after leaves are fully opened in the spring and prior to leaf discoloration in the fall.
      ii. For cut stump applications with oil soluble products, do not apply during periods of heavy sap flow. Use as a guideline that heavy sap flow occurs in late winter to early spring when nighttime temperatures below 32° F are followed by daytime temperatures above 32° F with sunny conditions.
      iii. For cut stump and basal bark applications, add sufficient dye so that treated areas are visible to inspection 7 days after application.

7. Notify the Engineer prior to calibrating, mixing and applying herbicides, including incidental items.

8. Provide copies of daily spray logs to the RCE at the end of each week of spraying (form provided by Iowa DOT).

9. If Contractor does not complete spray item on schedule, the Engineer may adjust the schedule.

262_05
9/28/22

UTILITIES (POINT 25 PROJECT)

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

REMOVAL OF PAVEMENT

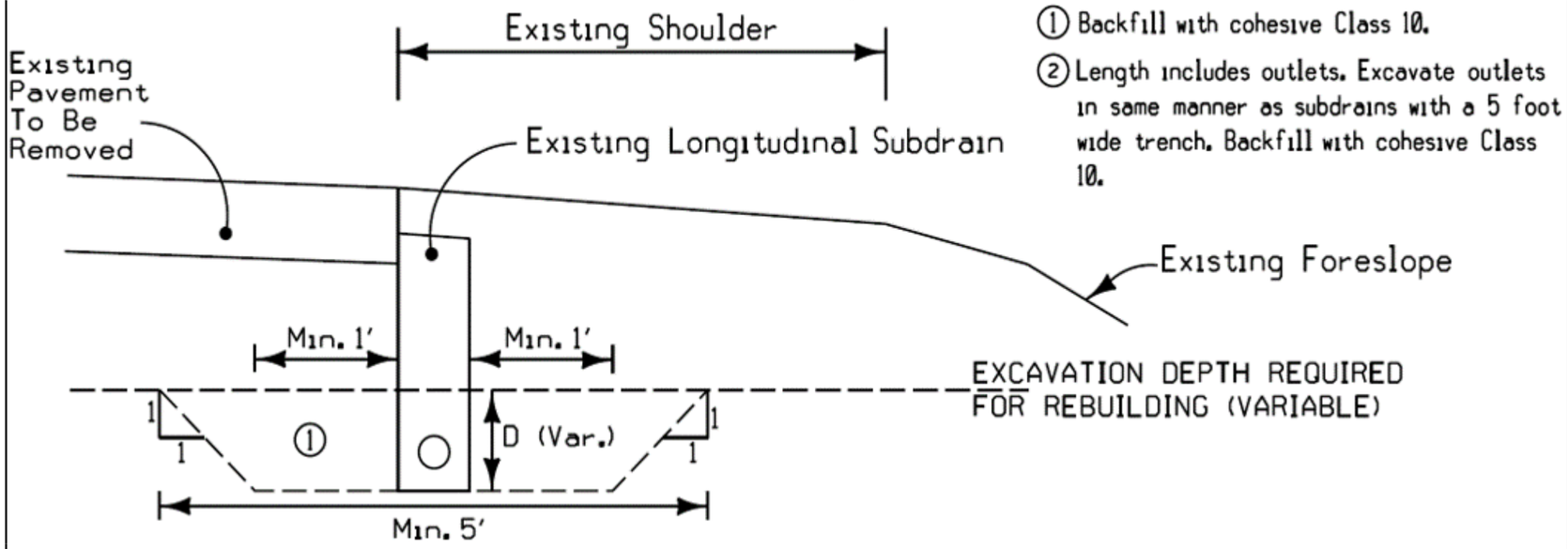
Refer to Tabulation 102-5.

* Not a bid item.

Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	1000+07.00	1004+91.00	Left	PCC	1972.0	968.2	US 75 NB - Crossing
2.0	1005+80.00	1012+47.00	Right	PCC	628.0	684.3	US 75 NB - Shoulder
3.0	1006+39.00	1012+02.00	Left	PCC	617.0	568.8	US 75 NB - Shoulder and turn lane
4.0	1012+02.00	1014+25.00	Left	PCC	879.0	381.2	US 75 NB - C80 crossing
5.0	1014+25.00	1019+88.00	Left	PCC	423.0	569.1	US 75 NB - Shoulder
6.0							
7.0	6+78.00	11+92.00	Right	PCC	343.0	519.8	US 75 SB - Shoulder
8.0	12+74.00	13+01.00	Left	PCC	104.0	132.9	US 75 SB - C80 Island and pavement
9.0	13+51.00	20+26.00	Right	PCC	711.0	681.3	US 75 SB - Shoulder and turn lane
10.0							
11.0	1061+69.00	1064+74.00	Left	PCC	531.0	311.2	US 75 NB - Shoulder and turn lane
12.0	1061+76.00	1069+23.00	Right	PCC	853.0	781.0	US 75 NB - Shoulder
13.0	1064+74.00	1065+77.00	Left	PCC	605.0	206.0	US 75 NB - Plymouth St crossing
14.0	1065+77.00	1068+95.00	Left	PCC	636.0	318.2	US 75 NB - Shoulder and turn lane
15.0	1068+95.00	1069+90.00	Left	PCC	623.0	190.0	US 75 NB - C70 crossing
16.0	1069+90.00	1072+94.00	Left	PCC	607.0	303.7	US 75 NB - Shoulder and turn lane
17.0	1072+94.00	1073+77.00	Left	PCC	534.0	166.0	US 75 NB - Fulton St crossing
18.0	1073+77.00	1075+98.00	Left	PCC	190.0	227.8	US 75 NB - Shoulder
19.0							
20.0	62+91.00	64+71.00	Right	PCC	120.0	185.9	US 75 SB - Shoulder
21.0	65+74.00	68+92.00	Right	PCC	253.0	318.2	US 75 SB - Shoulder
22.0	69+50.00	77+36.00	Left	PCC	879.0	807.7	US 75 SB - Shoulder
23.0	69+87.00	72+91.00	Right	PCC	607.0	303.7	US 75 SB - Shoulder and turn lane
24.0	72+76.00	73+56.00	Left	PCC	179.0	24.0	US 75 SB - Fulton St
25.0	73+74.00	77+00.00	Right	PCC	574.0	332.3	US 75 SB - Shoulder and turn lane
Total					12868.0	8981.3	

REMOVAL OF EXISTING LONGITUDINAL SUBDRAINS WHEN EXISTING PAVEMENT IS REMOVED

See Tab 104-9 for tabulation of longitudinal subdrains



① Backfill with cohesive Class 10.

② Length includes outlets. Excavate outlets in same manner as subdrains with a 5 foot wide trench. Backfill with cohesive Class 10.

* Not a bid item.

Line No.	Roadway Identification	Station From	Station To	Side	Length (2) (LF)	Depth (D) (FT)	Excavation Quantity* (CY)	Remarks
1.0	US 75 NB at C70	1061+75.00	1069+21.00	Right	776.0	1.7	161.24	Includes removal of one DR-306 outlets
2.0	US 75 SB at C70	69+45.00	77+36.00	Left	881.0	1.7	183.05	Includes removal of three DR-306 outlets
Total					1657.0		344.29	

Subdrain locations and quantities based on previous project as-built drawings. Locations of existing subdrain to be verified in the field.

190_62
2/13/23

EXISTING SIGNS TO BE REMOVED

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	Culvert Marker	1000+89.00	NB	1							
2.0	Culvert Marker	1064+40.00	NB	1							
3.0	Culvert Marker	1068+93.00	NB	1							
4.0											
5.0	Culvert Marker	43+52.00	SB	1							
6.0	Culvert Marker	65+78.00	SB	1							
7.0	Culvert Marker	69+94.00	SB	1							
Total				6							

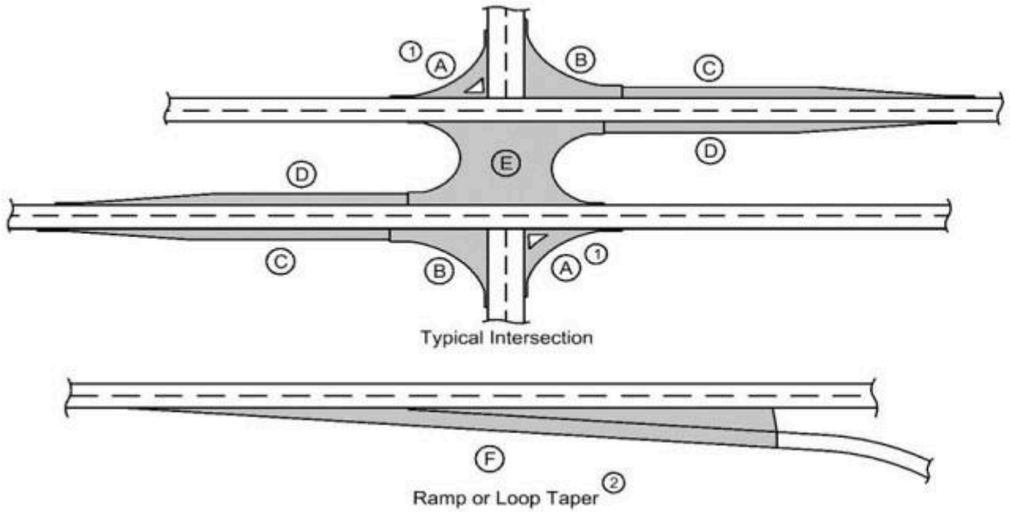
DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe
(3) Backfill according to DR-101

Drainage Area (ACRE)	Location	Type	Size (IN) (1)	Pipe Classification	Kind of Pipe (2)	Length New Const. (LF)	Length of total that is Trenchless	Bedding Class	Design Cover (H) (FT)	Camber* (DR-102) (FT)	Apron No. (IN)	Apron No. (OUT)	Apron Guard* (DR-213) (No.)	Elbow* (DR-141) (No.)	Diaphragm* (DR-501) (No.)	Tee Section* (DR-142) (No.)	"D" Section* (DR-141) (No.)	Reducer* (No.)	Type 'C' Conn.* (DR-122)	Type 'C' Conn.* (No.)	Connected Pipe Joint* (DR-121)	4" Perforated Subdrain* (FT)	Flow Line Elevation LT.	Flow Line Elevation RT.	Flow Line Elevation Other	Flow Line Elevation Other	Dimensions Lineal Feet Total (Left)	Dimensions Lineal Feet Total (Right)	Dimensions Lineal Feet Extensions (Left)	Dimensions Lineal Feet Extensions (Right)	Skew Ahead Degrees (Left)	Skew Ahead Degrees (Right)	Dike Location	Dike Station	Dike Elevation	Dike Type	Class 20 (CY)	Flowable Mortar (CY)	Floodable Backfill* (A)	Porous Backfill* (B) (CY)	Flooded Backfill(A+B) (CY)	Remarks
3.44	1018+89.51	DR-621	24.0	2000D	RCP	6.0		B			1		1								Type 3		1117.74		1117.64	1117.55			12.13									5.2		3.9	0.5	4.4	[1]
0.77	1019+52.22	DR-601	24.0	2000D	RCP	82.0		B	1.06	0.08	1	1							C-4	2	Type 3		1117.86	1117.96			48.00	48.00								70.0		50.1	6.4	56.5	[2] [3]
0.52	63+27.32	DR-601	24.0	2000D	RCP	92.0		B	1.33	0.08	1	1							C-4	2	Type 3		1123.95	1124.59			53.00	53.00								80.5		54.3	7.2	61.5	[2] [3]
1.54	66+00.00	DR-621	24.0	2000D	RCP	6.0		B			1		1								Type 3			1124.81	1124.72	1124.63				12.13								5.8		4.3	0.5	4.8	[1]
0.396	1075+64.68	DR-601	24.0	2000D	RCP	92.0		B	1.37	0.08	1	1							C-4	2	Type 3		1128.06	1127.84			53.00	53.00								83.6		58.7	7.2	65.8	[2] [3]
Total						278.0					5	3	2																							245.1		171.3	21.8	193.0	

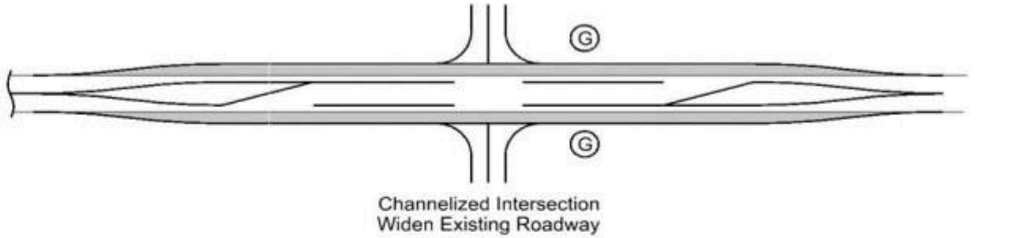
[1] DR-201 apron, Type 1 with DR-213 guard.
[2] DR-211 apron. Type C-3 connection on outlet side and Type-C4 connection on inlet side.
[3] Install Polymer Grid between floodable backfill and modified subbase:
PR_75NB_A STA 317+37.50: 172.7 SY
PR_75SB_B STA 254+44.51: 175.3 SY
PR_75NB_B STA 366+79.01: 178.2 SY
Total SUBGRADE STABILIZATION MATERIAL, POLYMER GRID: 526.2 SY

PCC PAVEMENT

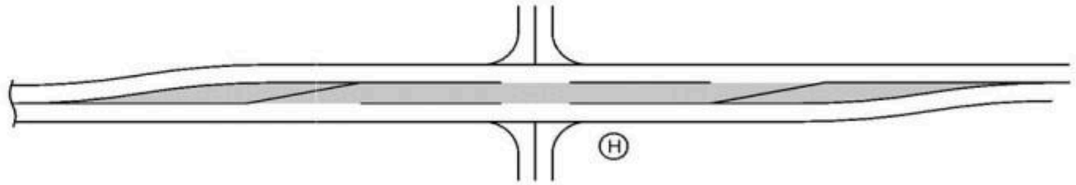


Typical Intersection

Ramp or Loop Taper



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(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	US 75 at C80	NB	1005+80.00	1012+47.00		667.00				687.86						10.0	687.9		216.689			Right turn lane
2.0	US 75 at C80	NB	1011+08.00	1018+97.00		789.00					932.64					10.0	932.6		293.782			Left turn lane
3.0	US 75 at C80	NB	1018+97.00	1019+82.00		85.00						416.48				10.0	416.5		131.191			U turn
4.0																						
5.0	US 75 at C80	SB	6+83.00	7+69.00		86.00						418.06				10.0	418.1		131.689			U turn
6.0	US 75 at C80	SB	7+69.00	14+79.00		710.00					826.52					10.0	826.5		260.354			Left turn lane
7.0	US 75 at C80	SB	12+74.00	13+01.00		27.00		49.55								10.0	49.6		14.678			Pavement around median at C80
8.0																						
9.0	US 75 at C70	NB	1061+76.00	1069+23.00		747.00				774.54						10.0	774.5		243.968			Right turn lane
10.0	US 75 at C70	NB	1067+99.00	1075+08.00		709.00					829.73					10.0	829.7		261.365			Left turn lane
11.0	US 75 at C70	NB	1075+08.00	1075+93.00		85.00						461.91				10.0	461.9		145.502			U turn
12.0																						
13.0	US 75 at C70	SB	62+97.00	63+81.00		84.00						460.68				10.0	460.7		145.114			U turn
14.0	US 75 at C70	SB	63+81.00	70+91.00		710.00					829.92					10.0	829.9		261.425			Left turn lane
15.0	US 75 at C70	SB	69+50.00	77+36.00		786.00				933.39						10.0	933.4		294.018			Right turn lane
Total																	7621.3		2399.775			

CURBS AND RAISED ISLANDS

Refer to PV-20, PV-102, and 6000s Detail Series.

(1) Bid Item

Line No.	Point No.	Station	Offset (FT)	Island Interior Area (1) (SY)	Curb Type	Curb Height (IN)	Gutter Width (FT)	Length (1) (FT)	Remarks
1.0	P1	12+87.08	38.5	21.5	Standard PCC	6.0	2.0	69.2	Island at C80
2.0	P2	12+96.09	66.0						
3.0	P3	12+95.10	38.5						
Total				21.5				69.2	

Includes 6 in. Special Backfill underneath median island.

Totals:
Special Backfill = 12.0 TON
Curb and Gutter, P.C. Concrete, 2.0 ft. = 69.2 LF
Median, P.C. Concrete, 6 in. = 21.5 SY

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 Grdrail (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)	Pavement Scarification (SY)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Earth Shoulder Const. Alt (3) (STA)	Earth Shoulder Const. Alt HMA (6) (CY)	Earth Shoulder Const. Alt PCC (6) (CY)	Remarks
US 75 at C80	NB	1005+80.00	1012+47.00	Right	2		2	666.98					148.2					93.380	14.000				124.662	18.690	6.67		87.95	Right turn lane
US 75 at C80	NB	1007+52.00	1018+95.00	Left	6			1143.69					762.0					373.647	32.690						11.43		150.71	Left turn lane
US 75 at C80	NB	1018+95.00	1018+99.00	Left	6			83.05					2.7					1.308	32.690						0.04		0.53	U turn
US 75 at C80	NB	1019+27.00	1020+13.00	Left	6			179.36					57.3					28.113	32.690						0.86		11.34	U turn
US 75 at C80	SB	6+52.00	7+33.00	Right	6			178.56					54.0					26.479	32.690						0.81		10.68	U turn
US 75 at C80	SB	7+65.00	7+69.00	Right	6			82.97					2.7					1.308	32.690						0.04		0.53	U turn
US 75 at C80	SB	7+69.00	19+13.00	Right	6			1145.89					762.7					373.974	32.690						11.44		150.84	Left turn lane
US 75 at C70	NB	1061+76.00	1069+23.00	Right			1	748.00															69.546	9.310	7.47		98.49	Right turn lane
US 75 at C70	NB	1064+01.00	1075+08.00	Left	6			1109.54					738.0					361.878	32.690						11.07		145.96	Left turn lane
US 75 at C70	NB	1074+93.00	1075+08.00	Left	6			94.63					10.0					4.904	32.690						0.15		1.98	U turn
US 75 at C70	NB	1073+52.00	1077+03.00	Left	6			260.69					234.0					114.742	32.690						3.51		46.28	U turn
US 75 at C70	SB	61+66.00	63+47.00	Right	6			282.67					120.7					59.169	32.690						1.81		23.87	U turn
US 75 at C70	SB	63+80.00	63+96.00	Right	6			94.63					10.7					5.230	32.690						0.16		2.11	U turn
US 75 at C70	SB	63+80.00	74+90.00	Right	6			1109.43					740.0					362.859	32.690						11.10		146.36	Left turn lane
US 75 at C70	SB	69+45.00	77+36.00	Left	6			794.11					527.3					258.578	32.690						7.91		104.29	Right turn lane
Total													4170.3					2065.569					194.208		74.47			

PAVEMENT MARKING LINE TYPES

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 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	CHW10 (STA)	CHW10 Factored (STA)	CHY10 (STA)	CHY10 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	ELY6 (STA)	ELY6 Factored (STA)	MNY6*** (STA)	MNY6*** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW6 (STA)	SLW6 Factored (STA)	STY6 (STA)	STY6 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)	Remarks
US 75 NB at C80	1005+50.00	1012+70.00	Right	Removal of Paint			X									7.20	7.20													
	1006+40.00	1009+55.00	Left	Removal of Paint	X													3.15	3.15											
	1010+95.00	1012+70.00	Aux.	Removal of Paint			X																	1.75	1.75					
	1013+85.00	1019+90.00	Left	Removal of Paint	X													6.05	6.05											
US 75 SB at C80	6+78.00	12+58.00	Left	Removal of Paint	X													5.80	5.80											
	11+55.00	12+85.00		Removal of Paint												1.70	1.70													C80
	12+42.00	12+70.00		Removal of Paint																		0.29	1.16							C80
	13+00.00			Removal of Paint										0.18	0.36															C80
	16+18.00	20+18.00	Left	Removal of Paint	X													4.00	4.00											
	13+78.00	15+03.00	Left	Removal of Paint			X																	1.25	1.25					
US 75 NB at C70	1061+66.00	1069+36.00	Right	Removal of Paint			X									7.70	7.70													
	1062+86.00	1064+81.00	Aux.	Removal of Paint			X																	1.95	1.95					
	1065+76.00	1068+96.00	Aux.	Removal of Paint			X																	3.20	3.20					
	1069+65.00	1069+67.00		Removal of Paint										0.16	0.32															C70
	1069+95.00	1070+68.00		Removal of Paint												0.80	0.80													C70
	1069+91.00	1072+96.00	Aux.	Removal of Paint			X																	3.05	3.05					
	1074+16.00	1075+96.00	Left	Removal of Paint	X													1.80	1.80											
US 75 SB at C70	62+93.00	64+73.00	Left	Removal of Paint	X													1.80	1.80											
	65+83.00	68+68.00	Aux.	Removal of Paint			X																	2.85	2.85					
	69+48.00	72+63.00	Right	Removal of Paint			X									3.15	3.15													
	69+83.00	73+03.00	Aux.	Removal of Paint			X																	3.20	3.20					
	73+53.00	77+33.00	Right	Removal of Paint			X									3.80	3.80													
	73+73.00	75+93.00	Aux.	Removal of Paint			X																	2.20	2.20					
Total									0		0		0		0.68		24.35		22.60		0		1.16		19.45		0		0	
Marking Type : Removal of Paint																														
	1018+95.00	1019+70.00	X-Over	Thermoplastic	X			Yes	4.96			2.97	4.96																	
	6+95.00	7+69.00	X-Over	Thermoplastic	X			Yes	4.96			2.97	4.96																	
	12+10.00	12+85.00		Thermoplastic				Yes	4.06	2.43	4.06																			Island at C80
	12+55.00	12+80.00		Thermoplastic				Yes	1.00													0.25	1.00							Island at C80
	1069+74.00	1069+98.00		Thermoplastic				Yes	0.92													0.23	0.92							Painted island at C70
	1069+88.00	1070+43.00		Thermoplastic				Yes	1.85	1.11	1.85																			Painted island at C70
	1075+08.00	1075+82.00	X-Over	Thermoplastic	X			Yes	5.53			3.31	5.53																	
	63+09.00	63+81.00	X-Over	Thermoplastic	X			Yes	5.54			3.32	5.54																	
Total									28.82		5.91		20.99		0		0		0		0		1.92		0		0		0	
Marking Type : Thermoplastic																														
US 75 NB at C80	1005+49.00	1012+20.00	Aux.	Waterborne/Solvent Paint			X	Yes	6.71							6.71	6.71													
	1006+39.00	1006+70.00	Left	Waterborne/Solvent Paint	X			Yes	0.31									0.31	0.31											
	1007+00.00	1012+67.00	Aux.	Waterborne/Solvent Paint	X			Yes	5.67															5.67	5.67					
	1006+81.00	1011+08.00	Left	Waterborne/Solvent Paint	X			Yes	4.27									4.27	4.27											

PAVEMENT MARKING LINE TYPES

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
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	CHW10 (STA)	CHW10 Factored (STA)	CHY10 (STA)	CHY10 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	ELY6 (STA)	ELY6 Factored (STA)	MNY6*** (STA)	MNY6*** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW6 (STA)	SLW6 Factored (STA)	STY6 (STA)	STY6 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)	Remarks
	1011+08.00	1018+95.00	Aux.	Waterborne/Solvent Paint	X			Yes	7.88									7.88	7.88										
	1012+87.00	1019+31.00	Aux.	Waterborne/Solvent Paint			X	Yes	6.44															6.44	6.44					
	1019+70.00	1019+82.00	X-Over	Waterborne/Solvent Paint	X	X	X	Yes	0.14																			0.12	0.14	
	1019+31.00	1019+82.00	X-Over	Waterborne/Solvent Paint			X	Yes	0.93							0.93	0.93													
	1019+31.00	1019+87.00	Left	Waterborne/Solvent Paint	X			Yes	0.56									0.56	0.56											
US 75 SB at C80	6+78.00	7+33.00	Left	Waterborne/Solvent Paint	X			Yes	0.55									0.55	0.55											
	6+82.00	7+33.00	X-Over	Waterborne/Solvent Paint			X	Yes	0.93							0.93	0.93													
	6+83.00	6+95.00	X-Over	Waterborne/Solvent Paint	X	X	X	Yes	0.14																			0.12	0.14	
	7+33.00	12+99.00	Aux.	Waterborne/Solvent Paint			X	Yes	5.66															5.66	5.66					
	7+69.00	14+79.00	Aux.	Waterborne/Solvent Paint	X			Yes	7.10									7.10	7.10											
	11+55.00	12+10.00		Waterborne/Solvent Paint				Yes	0.54							0.54	0.54													Island at C80
	12+80.00	12+95.00		Waterborne/Solvent Paint				Yes	0.21							0.21	0.21													Island at C80
	12+80.00	12+95.00		Waterborne/Solvent Paint				Yes	1.12									1.12	1.12											Island at C80
	12+87.00	12+95.00		Waterborne/Solvent Paint				No																		0.73	1.48			Island at C80
	12+96.00			Waterborne/Solvent Paint				No												0.06	0.06									Island at C80
	14+79.00	19+83.00	Left	Waterborne/Solvent Paint	X			Yes	5.05									5.05	5.05											
	19+95.00	20+26.00	Left	Waterborne/Solvent Paint	X			Yes	0.31									0.31	0.31											
US 75 NB at C70	1061+68.00	1069+23.00	Aux.	Waterborne/Solvent Paint			X	Yes	7.57							7.57	7.57													
	1061+69.00	1062+99.00	Left	Waterborne/Solvent Paint	X			Yes	1.31									1.31	1.31											
	1063+25.00	1069+34.00	Aux.	Waterborne/Solvent Paint			X	Yes	6.08															6.08	6.08					
	1063+11.00	1067+99.00	Left	Waterborne/Solvent Paint	X			Yes	4.87									4.87	4.87											
	1067+99.00	1075+08.00	Aux.	Waterborne/Solvent Paint	X			Yes	7.10									7.10	7.10											
	1069+52.00	1069+59.00		Waterborne/Solvent Paint				Yes	0.34					0.17	0.34															Painted island at C70
	1069+52.00	1069+74.00		Waterborne/Solvent Paint				Yes	0.21							0.21	0.21													Painted island at C70
	1069+59.00	1069+74.00		Waterborne/Solvent Paint				Yes	0.32			0.19	0.32																	Painted island at C70
	1069+74.00			Waterborne/Solvent Paint				Yes	0.32					0.16	0.32															Painted island at C70
	1070+43.00	1070+69.00		Waterborne/Solvent Paint				Yes	0.26								0.26													Painted island at C70
	1069+78.00	1075+43.00	Aux.	Waterborne/Solvent Paint			X	Yes	5.65															5.65	5.65					
	1075+82.00	1075+93.00	X-Over	Waterborne/Solvent Paint	X	X	X	Yes	0.14																			0.12	0.14	
	1075+43.00	1075+94.00	X-Over	Waterborne/Solvent Paint			X	Yes	0.96							0.96	0.96													
US 75 SB at C70	62+91.00	63+47.00	Left	Waterborne/Solvent Paint	X			Yes	0.56									0.56	0.56											
	62+96.00	63+47.00	X-Over	Waterborne/Solvent Paint			X	Yes	0.96							0.96	0.96													
	62+96.00	63+08.00	X-Over	Waterborne/Solvent Paint	X	X	X	Yes	0.14																			0.12	0.14	
	63+47.00	69+11.00	Aux.	Waterborne/Solvent Paint			X	Yes	5.65															5.65	5.65					
	63+81.00	70+91.00	Aux.	Waterborne/Solvent Paint	X			Yes	7.10									7.10	7.10											
	69+50.00	75+55.00	Aux.	Waterborne/Solvent Paint	X			Yes	6.05															6.05	6.05					
	69+50.00	77+43.00	Aux.	Waterborne/Solvent Paint			X	Yes	7.94							7.94	7.94													
	70+91.00	75+79.00	Left	Waterborne/Solvent Paint	X			Yes	4.87									4.87	4.87											
	75+91.00	77+00.00	Left	Waterborne/Solvent Paint	X			Yes	1.10									1.10	1.10											
Total																													

PAVEMENT MARKING LINE TYPES

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 | BCY6: Broken Centerline (Yellow) @ 0.25 | BLC6: Broken Line Contrast (White/Black) @ 0.50 | BLW4: Broken Lane Line (White) @ 0.17 | BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 | CHW8: Channelizing Line (White) @ 1.33 | CHW10: Channelizing Line (White) @ 1.67 | CHY8: Channelizing Line (Yellow) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 | DCY4: Double Centerline (Yellow) @ 1.34 | DCY6: Double Centerline (Yellow) @ 2.00 | DDY4: Double Dotted Line (Yellow) @ 0.44 | DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 | DLW6: Dotted Line (White) @ 0.33 | DLY4: Dotted Line (Yellow) @ 0.22 | DLY6: Dotted Line (Yellow) @ 0.33 | ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 | ELY4: Edge Line Left (Yellow) @ 0.67 | ELY6: Edge Line Left (Yellow) @ 1.00 | LDW8: Lane Drop (White) @ 0.33 | LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 | NPY4: No Passing Zone Line (Yellow) @ 0.84 | NPY6: No Passing Zone Line (Yellow) @ 1.25 | RLW4: Ramp Edge Line Right (White) @ 0.67 | RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 | RLY6: Ramp Edge Line Left (Yellow) @ 1.00 | SLW2: Stop Line (White) @ 4.00 | SLW4: Solid Lane Line (White) @ 0.67 | SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 | SPW6: Sloped Curb 6" (White) @ 2.28 | SPY4: Sloped Curb 4" (Yellow) @ 2.16 | SPY6: Sloped Curb 6" (Yellow) @ 2.28 | STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 | YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	CHW10 (STA)	CHW10 Factored (STA)	CHY10 (STA)	CHY10 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	ELY6 (STA)	ELY6 Factored (STA)	MNY6*** (STA)	MNY6*** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	SLW6 (STA)	SLW6 Factored (STA)	STY6 (STA)	STY6 Factored (STA)	YLW2 (STA)	YLW2 Factored (STA)	Remarks
									124.02		0		0.32		0.66		27.22		54.06		0.06		0		41.20		1.48		0.56	
Marking Type : Waterborne/Solvent Paint																														
Grand Totals									152.84		5.91		21.31		1.34		51.57		76.66		0.06		3.08		60.65		1.48		0.56	

Totals:
Pavement Markings Removed = 68.24 STA
Painted Pavement Markings, Waterborne or Solvent-Based = 125.56 STA
Permanent Tape Markings, Preformed Thermoplastic Marking Material = 28.82 STA
Grooves Cut for Pavement Markings = 152.84 STA

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Line No.	Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
1.0	US 75 NB at C80	1007+81.00	Right	ONLW	1	Yes	
2.0		1008+62.00	Right	RTAW	1	Yes	
3.0		1010+91.00	Right	ONLW	1	Yes	
4.0		1011+71.00	Right	RTAW	1	Yes	
5.0		1013+67.00	Left	ONLW	1	Yes	
6.0		1014+49.00	Left	LTAW	1	Yes	
7.0		1017+34.00	Left	ONLW	1	Yes	
8.0		1018+17.00	Left	LTAW	1	Yes	
9.0	US 75 SB at C80	8+45.00	Left	LTAW	1	Yes	
10.0		9+27.00	Left	ONLW	1	Yes	
11.0		11+38.00	Left	LTAW	1	Yes	
12.0		12+18.00	Left	ONLW	1	Yes	
13.0		12+88.00	Left	RTAW	1	Yes	C80
14.0		12+89.00	Left	RTAW	1	Yes	C80
15.0		12+92.00	Left	ONLW	1	Yes	C80
16.0	US 75 NB at C70	1064+07.00	Right	ONLW	1	Yes	
17.0		1064+86.00	Right	RTAW	1	Yes	
18.0		1067+57.00	Right	ONLW	1	Yes	
19.0		1068+09.00	Right	RTAW	1	Yes	
20.0		1069+74.00	Right	STAW	2	Yes	
21.0		1070+58.00	Left	ONLW	1	Yes	
22.0		1071+37.00	Left	LTAW	1	Yes	
23.0		1073+50.00	Left	ONLW	1	Yes	
24.0		1074+29.00	Left	LTAW	1	Yes	
25.0	US 75 SB at C70	64+61.00	Left	LTAW	1	Yes	
26.0		65+03.00	Right	RTAW	1	Yes	Plymouth St
27.0		65+42.00	Left	ONLW	1	Yes	
28.0		67+52.00	Left	LTAW	1	Yes	
29.0		68+34.00	Left	ONLW	1	Yes	
30.0		69+06.00	Right	RTAW	1	Yes	Main St
31.0		70+32.00	Right	RTAW	1	Yes	
32.0		71+14.00	Right	ONLW	1	Yes	
33.0		73+94.00	Right	RTAW	1	Yes	
34.0		74+75.00	Right	ONLW	1	Yes	
Total					35		

Totals:
Pre-Cut Symbols and Legends, Preformed Thermoplastic Marking Material = 35 EACH
Grooves Cut for Symbols and Legends = 35 EACH

MILLED RUMBLE STRIPS

* Calculated at 18" width for Shoulder.
** For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

Line No.	Road Identification	Station From	Station To	Shoulder Pavement Type	Rumble Strip Lane	Rumble Strip Type	Fog Seal Type	L (IN)	PCC Length (STA)	HMA Length (STA)	Fog Seal* Shoulder (GAL)	Fog Seal (SY)**	Effective Shoulder Width PCC (FT)	Effective Shoulder Width HMA (FT)	Effective Shoulder Width Granular\Earth (FT)	Remarks
1.0	US 75 NB at C80															
2.0		1006+39.00	1006+64.00	PCC	Left Shoulder	Milled			0.25				6.0			
3.0		1007+52.00	1018+95.00	PCC	Left Shoulder	Milled			11.44				6.0			
4.0		1019+66.00	1019+87.00	PCC	Left Shoulder	Milled			0.21				6.0			
5.0																
6.0	US 75 SB at C80															
7.0		6+78.00	6+98.00	PCC	Right Shoulder	Milled			0.21				6.0			
8.0		7+69.00	19+13.00	PCC	Right Shoulder	Milled			11.44				6.0			
9.0		20+01.00	20+26.00	PCC	Right Shoulder	Milled			0.25				6.0			
10.0																
11.0	US 75 NB at C70															
12.0		1061+69.00	1062+94.00	PCC	Left Shoulder	Milled			1.25				6.0			
13.0		1063+99.00	1075+08.00	PCC	Left Shoulder	Milled			11.10				6.0			
14.0		1075+78.00	1075+98.00	PCC	Left Shoulder	Milled			0.21				6.0			
15.0																
16.0	US 75 SB at C70															
17.0		62+91.00	63+12.00	PCC	Right Shoulder	Milled			0.21				6.0			
18.0		63+81.00	74+91.00	PCC	Right Shoulder	Milled			11.10				6.0			
19.0		69+45.00	77+36.00	PCC	Left Shoulder	Milled			7.91				6.0			
20.0		75+96.00	77+00.00	PCC	Right Shoulder	Milled			1.04				6.0			
Total									56.62							

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LOCATIONS OF ROAD CLOSURE BARRICADES

Refer to SI-181 and SI-182.

Line No.	No.	Station	Width (LF)	SI-181 (LF)	SI-182 (No.)	Remarks
1.0	1	73+16.00	24.0	24		Fulton St at US 75 SB
Total				24		

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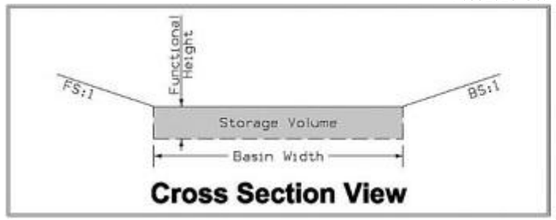
SAFETY CLOSURES

Refer to Section 2528 of the Standard Specifications

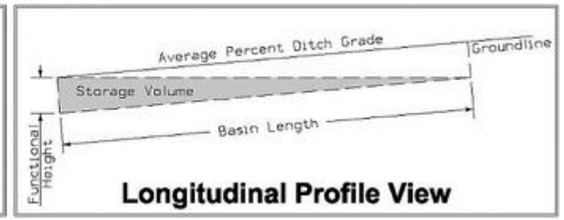
Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
1065+27.00	1		Stage 1 - Plymouth St crossover
1073+35.00	1		Stage 1 - Fulton St crossover
65+23.00	1		Stage 1 - Plymouth St crossover
73+06.00	1		Stage 1 - Fulton St
73+32.00	1		Stage 1 - Fulton St crossover
65+23.00	1		Stage 2 - Plymouth St crossover
73+06.00	1		Stage 2 - Fulton St
73+32.00	1		Stage 2 - Fulton St crossover
73+06.00	1		Stage 3A - Fulton St
12+93.00	1		Stage 3B - C80
13+01.00	1		Stage 3B - C80
Total	11		

SILT BASINS

Possible Standard: EW-403



Cross Section View



Longitudinal Profile View

* The functional height used in the volume equation is 95% of effective height. Effective height is 3 feet as shown in EW-403.
* Volume equation: (0.5*Length*(Width*Height+Width*(Height-Length*Avg%Slope))

Line No.	Basin No.	Station	Side	Installation (Each)	Removal (Each)	Basin Width (FT)	Basin Length (FT)	Height (FT)	Avg. % Slope	Volume (CF)	Remarks
1.0		69+77.00	Left	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	US 75 SB at C70 - Stage 1
2.0		+.00									
3.0		1018+58.00	Left	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	US 75 NB at C80 - Stage 2
4.0		+.00									
5.0		1064+08.00	Left	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	US 75 NB at C70 - Stage 2
6.0		1066+32.00	Left	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	US 75 NB at C70 - Stage 2
7.0		1070+23.00	Left	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	US 75 NB at C70 - Stage 2
8.0		1074+86.00	Left	1.0	1.0	10.0	50.0	2.85	0.5	1362.50	US 75 NB at C70 - Stage 2
9.0		+.00									
10.0		+.00		6.0	6.0						Undistributed (100%)
Total				12.0	12.0						

TABULATION OF SILT FENCES

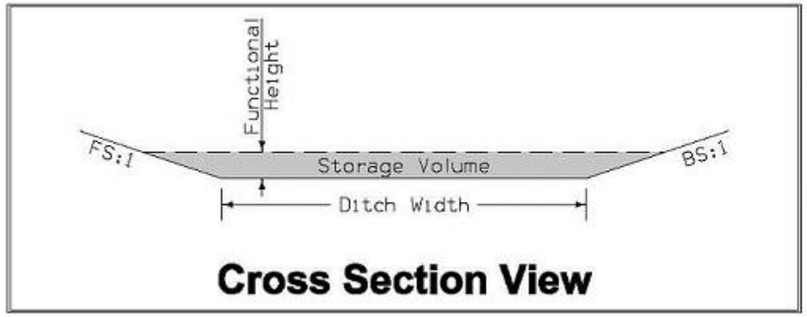
Refer to EC-201

Line No.	Station From	Station To	Side	Length (FT)	Remarks
1.0	1005+78.00	1007+69.00	Right	200.00	US 75 NB at C80 - Stage 1
2.0	1007+69.00	1009+62.00	Right	200.00	US 75 NB at C80 - Stage 1
3.0	1009+62.00	1011+54.00	Right	200.00	US 75 NB at C80 - Stage 1
4.0	1011+54.00	1012+44.00	Right	100.00	US 75 NB at C80 - Stage 1
5.0	+.00				
6.0	1061+73.00	1063+66.00	Right	200.00	US 75 NB at C70 - Stage 1
7.0	1063+66.00	1065+22.00	Right	160.00	US 75 NB at C70 - Stage 1
8.0	1065+61.00	1067+04.00	Right	150.00	US 75 NB at C70 - Stage 1
9.0	1067+04.00	1068+63.00	Right	170.00	US 75 NB at C70 - Stage 1
10.0	1068+63.00	1069+20.00	Right	65.00	US 75 NB at C70 - Stage 1
11.0	+.00				
12.0	70+10.00	70+98.00	Left	95.00	US 75 SB at C70 - Stage 1
13.0	70+98.00	72+88.00	Left	200.00	US 75 SB at C70 - Stage 1
14.0	73+38.00	74+89.00	Left	160.00	US 75 SB at C70 - Stage 1
15.0	74+89.00	76+81.00	Left	200.00	US 75 SB at C70 - Stage 1
16.0	76+81.00	77+35.00	Left	70.00	US 75 SB at C70 - Stage 1
17.0	+.00				
18.0	+.00			542.00	Undistributed (25%)
Total				2712.00	

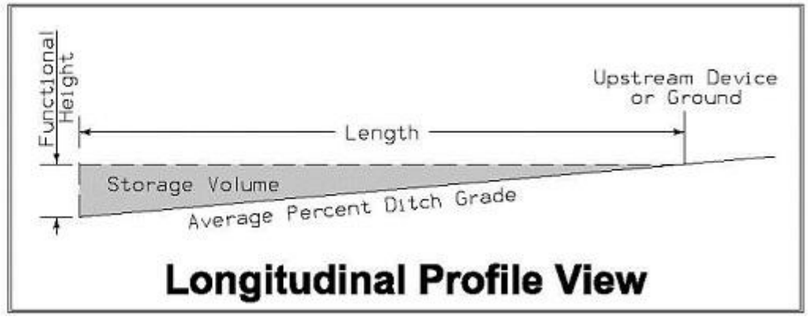
Totals:
Silt Fence = 2712 LF
Removal of Silt Fence or Silt Fence for Ditch Checks = 1356 LF
Maintenance of Silt Fence or Silt Fence for Ditch Check = 271 LF

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

Line No.	Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
1.0		Type 1	1000+00.00	Left	30.0	3.0	15.0	4.0	4.0	14.0	0.5	1821.40	US 75 at C80 - Stage 2
2.0		Type 1	1002+50.00	Left	30.0	3.0	15.0	4.0	4.0	14.0	0.5	3252.50	US 75 at C80 - Stage 2
3.0		Type 1	1004+96.00	Left	30.0	3.0	15.0	4.0	4.0	14.0	0.5	3252.50	US 75 at C80 - Stage 2
4.0		Type 1	1006+37.00	Left	50.0	5.0	25.0	4.0	4.0	14.0	0.5	390.30	US 75 at C80 - Stage 2
5.0		Type 1	1009+57.00	Left	30.0	3.0	15.0	4.0	4.0	14.0	0.5	2862.20	US 75 at C80 - Stage 2
6.0		Type 1	1011+79.00	Left	30.0	3.0	15.0	4.0	4.0	9.0	0.5	2123.00	US 75 at C80 - Stage 2
7.0		Type 1	1014+78.00	Left	30.0	3.0	15.0	4.0	4.0	10.0	0.5	1754.40	US 75 at C80 - Stage 2
8.0		Type 1	1016+52.00	Left	30.0	3.0	15.0	4.0	4.0	13.0	0.5	2096.95	US 75 at C80 - Stage 2
9.0		Type 3	1018+26.00	Left	30.0	3.0	15.0	4.0	4.0	13.0	0.5	2096.95	US 75 at C80 - Stage 2
10.0		Type 3	1020+18.00	Left	50.0	5.0	25.0	4.0	4.0	13.0	0.5	3885.53	US 75 at C80 - Stage 2
11.0			+.00										
12.0		Type 1	1062+59.00	Left	50.0	5.0	25.0	4.0	4.0	16.0	0.5	574.00	US 75 at C70 - Stage 2
13.0		Type 3	1064+38.00	Left	40.0	4.0	20.0	4.0	4.0	16.0	0.5	3228.75	US 75 at C70 - Stage 2
14.0		Type 3	1066+62.00	Left	40.0	4.0	20.0	4.0	4.0	15.0	0.5	1368.00	US 75 at C70 - Stage 2
15.0		Type 1	1067+65.00	Left	30.0	3.0	15.0	4.0	4.0	14.0	0.5	1951.50	US 75 at C70 - Stage 2
16.0		Type 3	1070+55.00	Left	30.0	3.0	15.0	4.0	4.0	10.0	0.5	2373.60	US 75 at C70 - Stage 2
17.0		Type 1	1072+82.00	Left	30.0	3.0	15.0	4.0	4.0	13.0	0.5	1048.48	US 75 at C70 - Stage 2
18.0		Type 3	1074+56.00	Left	40.0	4.0	20.0	4.0	4.0	15.0	0.5	1162.80	US 75 at C70 - Stage 2
19.0		Type 1	1076+38.00	Left	50.0	5.0	25.0	4.0	4.0	15.0	0.5	547.20	US 75 at C70 - Stage 2
20.0			+.00										
21.0		Type 1	1010+10.00	Left	30.0	3.0	15.0	4.0	4.0	13.0	0.5	3885.53	US 75 at C80 - Stage 3
22.0		Type 1	1012+72.00	Left	30.0	3.0	15.0	4.0	4.0	3.0	0.5	1461.20	US 75 at C80 - Stage 3
23.0		Type 1	1015+33.00	Left	30.0	3.0	15.0	4.0	4.0	12.0	0.5	3032.90	US 75 at C80 - Stage 3
24.0			+.00										
25.0		Type 1	1067+19.00	Left	40.0	4.0	20.0	4.0	4.0	15.0	0.5	3146.40	US 75 at C70 - Stage 3
26.0		Type 1	1069+50.00	Left	30.0	3.0	15.0	4.0	4.0	6.0	0.5	1756.05	US 75 at C70 - Stage 3
27.0		Type 1	1071+82.00	Left	30.0	3.0	15.0	4.0	4.0	12.0	0.5	3966.10	US 75 at C70 - Stage 3
28.0			+.00										
29.0			+.00		420.0	42.0	210.0						Undistributed (50%)
Total					1260.0	126.0	630.0						

Totals:
Silt Fence for Ditch Checks = 1260 LF
Removal of Silt Fence or Silt Fence for Ditch Checks = 630 LF
Maintenance of Silt Fence or Silt Fence for Ditch Check = 126 LF

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1.0	69+49.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 SB at C70 - Stage 1
2.0	+.00						
3.0	1018+90.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 at C80 - Stage 2
4.0	1019+97.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 at C80 - Stage 2
5.0	+.00						
6.0	1063+80.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 at C70 - Stage 2
7.0	1066+03.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 at C70 - Stage 2
8.0	1069+95.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 at C70 - Stage 2
9.0	1075+14.00		Left	Perimeter and Slope		40.00	Inlet Protection - US 75 at C70 - Stage 2
10.0	+.00						
11.0	+.00					80.00	Undistributed (25%)
Total						360.00	

Specific locations have not been determined for all sediment control devices. Totals for all devices are shown below.

Totals:
Perimeter and Slope Sediment Control Device, 12 in. Dia. = 200 LF
Perimeter and Slope Sediment Control Device, 20 in. Dia. = 360 LF
Ditch Check Sediment Control Device, 12 in. Dia. = 200 LF
Ditch Check Sediment Control Device, 20 in. Dia. = 200 LF
Removal of Perimeter and Slope or Ditch Check Sediment Control Device = 960 LF

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Erosion Stone (TON)	Remarks
1.0	US 75 NB at C80	1018+96.00	1019+04.00	Left	8.50	8.5	Type 4 - Rock Splash Basin	15.8		8.670	Stage 2
2.0	US 75 NB at C70	1062+70.00	1062+78.00	Left	8.50	8.5	Type 4 - Rock Splash Basin	15.8		8.670	Stage 2
3.0	US 75 NB at C70	1076+17.00	1076+25.00	Left	8.50	8.5	Type 4 - Rock Splash Basin	15.8		8.670	Stage 2
Total								47.4		26.010	

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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.

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SHRINKAGE DATA

Material	%	Remarks
Topsoil	40.0	
Entire Project	30.0	

TOPSOIL STRIPPING AND PLACEMENT

Line No.	Road Identification	Dir. of Traffic	Station From	Station To	Topsoil Stripping Thickness (IN)	Topsoil Placement Thickness (IN)	Remarks
1.0	US 75	NB	1005+80.00	1019+88.00	6.0	4.0	Intersection at C80
2.0	US 75	SB	6+77.00	20+26.00	6.0	4.0	Intersection at C80
3.0	US 75	NB	1061+69.00	1075+99.00	6.0	4.0	Intersection at C70
4.0	US 75	SB	62+90.00	77+36.00	6.0	4.0	Intersection at C70

LONGITUDINAL SUBDRAIN SHOULDER

* 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	US 75 SB at C70	69+45.00	70+83.00	Left	42.0	4.0	168.0	69+45.00		15.6	Connect to existing subdrain
2.0								70+83.00	DR-306		
3.0	US 75 SB at C70	70+83.00	77+07.00	Left	42.0	4.0	684.0	70+83.00	DR-306	63.3	
4.0								77+07.00	DR-306		
5.0	US 75 SB at C70	77+21.00	77+36.00	Left	42.0	4.0	45.0	77+21.00	DR-306	4.2	
6.0								77+36.00			Connect to existing subdrain
Total							897.0			83.1	

Subdrain locations and quantities based on previous project as-built drawings. Locations of existing subdrain to be verified in the field.

Totals:
Subdrain, Longitudinal, (Shoulder) 4 in. Dia. = 897 LF
Subdrain Outlet, DR-306 = 3 EACH

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- ST Septic Tank
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

—W(B)— — City of Hinton
Jim Paul
P.O. Box 1023
205 W. Main
Hinton, IA 51204
712-947-4129
cityclrk@mtcnet.net

—TV(B)— — Cable One
Robert Wignes
900 Steuben Street
Sioux City, IA 51101
712-233-2000
robert.wignes@cableone.biz

—TV(B)— — Century Link
Marni Fetters
712-292-3637
marni.fetters@centurylink.com

UTILITY LEGEND

—E2(B)— — Midamerican Energy
Alex Karpuk
223 S. Iowa Street
Sioux City, IA 51101
712-252-7316
apkarkpuk@midamerican.com

—E3(B)— — Northwest REC
Derrick Haak
1505 Albany Place SE
Orange City, IA 51041
712-707-4935
dhaak@nwrec.coop

—FO(B)— — Neutral Path
Kayla Powers
3 Civic Center Plaza, Ste 204
Mankato MN, 56001
612-877-6500
kpowers@neutralpath.net

— FO2(B) — · MCI Verizon
Jeff Haldin
605-366-8555
jeff.haldin@verizon.com

— FO3(B) — · Fiber Comm
Rick Welch
1605 9th Street
Sioux City, IA 51101
712-224-2054
rwelch@fibercomm.net

— FO4(B) — · Premier Comm
Lee Sybesma
339 1st Ave. NE
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lsybesma@mypremieronline.com

— FO5(B) — · Century Link
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Des Moines, IA 50317
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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	50%
Yellow	(4)	Proposed Pavement Shading	50%
Orange	(6)	Proposed Granular Shading	50%
Orange	(70)	Proposed Shoulder Granular Shading	50%
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading	50%
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading	50%
Brown, Light	(236)	Grading Shading	50%
Orange, Light	(134)	Proposed Granular Entrance Shading	50%
Yellow	(220)	Proposed Paved Entrance Shading	50%
Tan	(8)	Proposed Sidewalk Shading	50%
Blue, Light	(230)	Proposed Sidewalk Landing Shading	50%
Pink	(11)	Proposed Sidewalk Ramp Shading	50%
Red	(3)	Proposed Structure Shading	50%
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
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way Symbol
- 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
- C/A Access Control
- Property Line Symbol
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER D.1

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SOUTHBOUND U.S. 75 AT C80

FRELON DR
PLYWOOD TRAIL
PLYWOOD TRAIL
C80
HIGHLAND AVE
US 75 SB
US 75 NB
UNION PACIFIC RAILROAD
UNION PACIFIC RAILROAD
EXISTING R/W
EXISTING R/W
EXISTING R/W
EXISTING R/W
STA 6+77.71 (PR_75SB_A)
BEGIN CONSTRUCTION
STA 20+25.63 (PR_75SB_A)
END CONSTRUCTION
1:15
1:15
6'
12'
12'
6'
10'
2'
0 60 FEET

4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

1150 1145 1140 1135 1130 1125 1120 1115 1110 1105 1100 1095 1090

STA 6+77.71 (PR_75SB_A)
ELEVATION 1124.05
BEGIN CONSTRUCTION

VPC = 7+10.50
EL = 1124.15

VHP = 9+54.14
EL = 1124.51

VPI = +73.00
EL = 1124.93
L = 525.00'
K = 812

VPT = 12+35.50
EL = 1124.02

STA 20+25.63 (PR_75SB_A)
ELEVATION 1121.32
END CONSTRUCTION

+0.30%
-0.35%
MEDIAN DITCH PROFILE
-0.33% MED Ditch Grade
+0.70% MED Ditch Grade

MED +65
1121.47

MED +08
1117.79

MED +99
1117.73

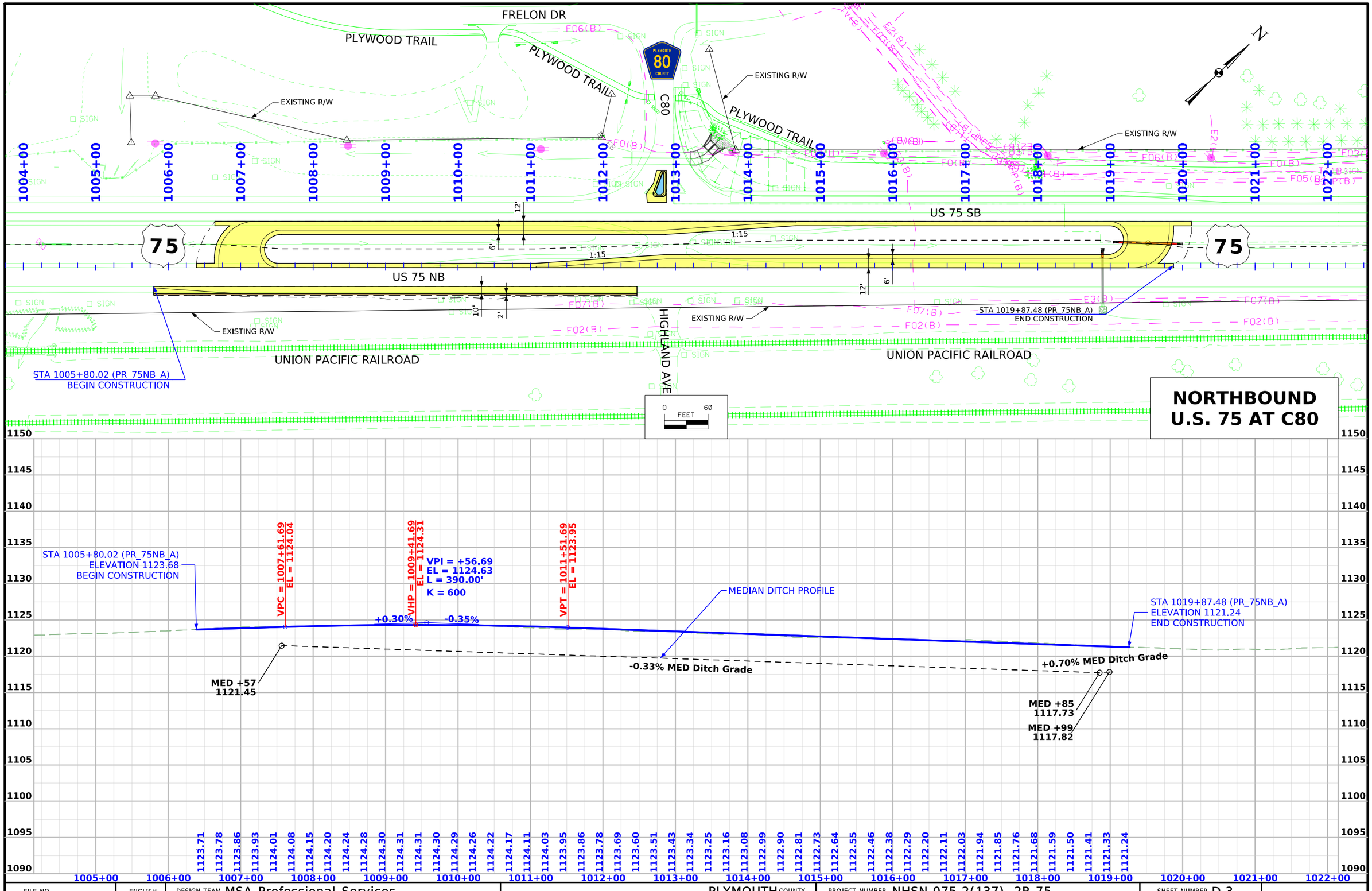
1124.05 1124.12 1124.19 1124.26 1124.31 1124.37 1124.41 1124.45 1124.47 1124.49 1124.51 1124.51 1124.51 1124.50 1124.48 1124.46 1124.42 1124.38 1124.33 1124.28 1124.21 1124.14 1124.06 1123.97 1123.89 1123.80 1123.71 1123.63 1123.54 1123.45 1123.37 1123.28 1123.19 1123.11 1123.02 1122.93 1122.85 1122.76 1122.68 1122.59 1122.50 1122.42 1122.33 1122.24 1122.16 1122.07 1121.98 1121.90 1121.81 1121.72 1121.64 1121.55 1121.46 1121.38 1121.32

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER D.2

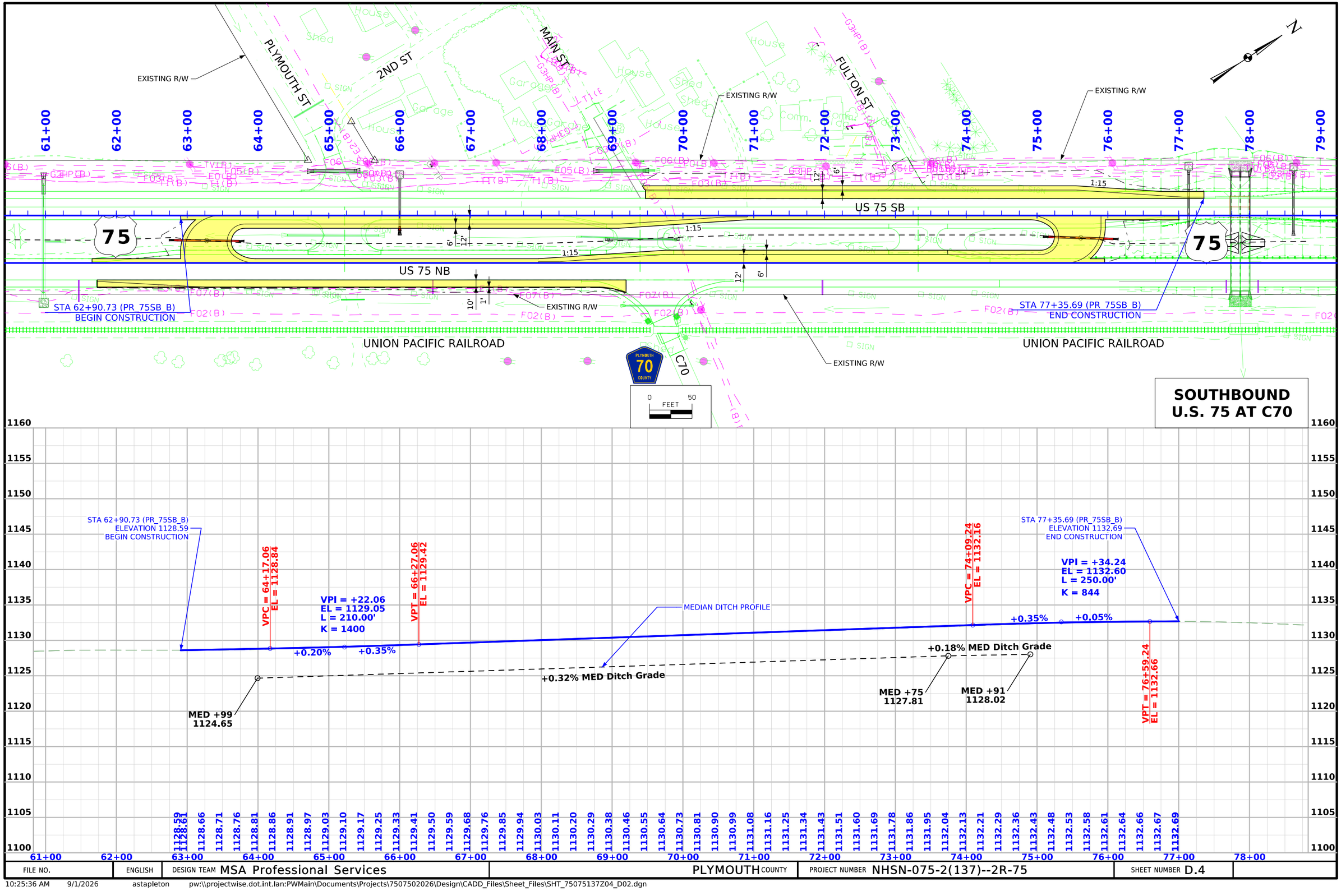
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NORTHBOUND U.S. 75 AT C80



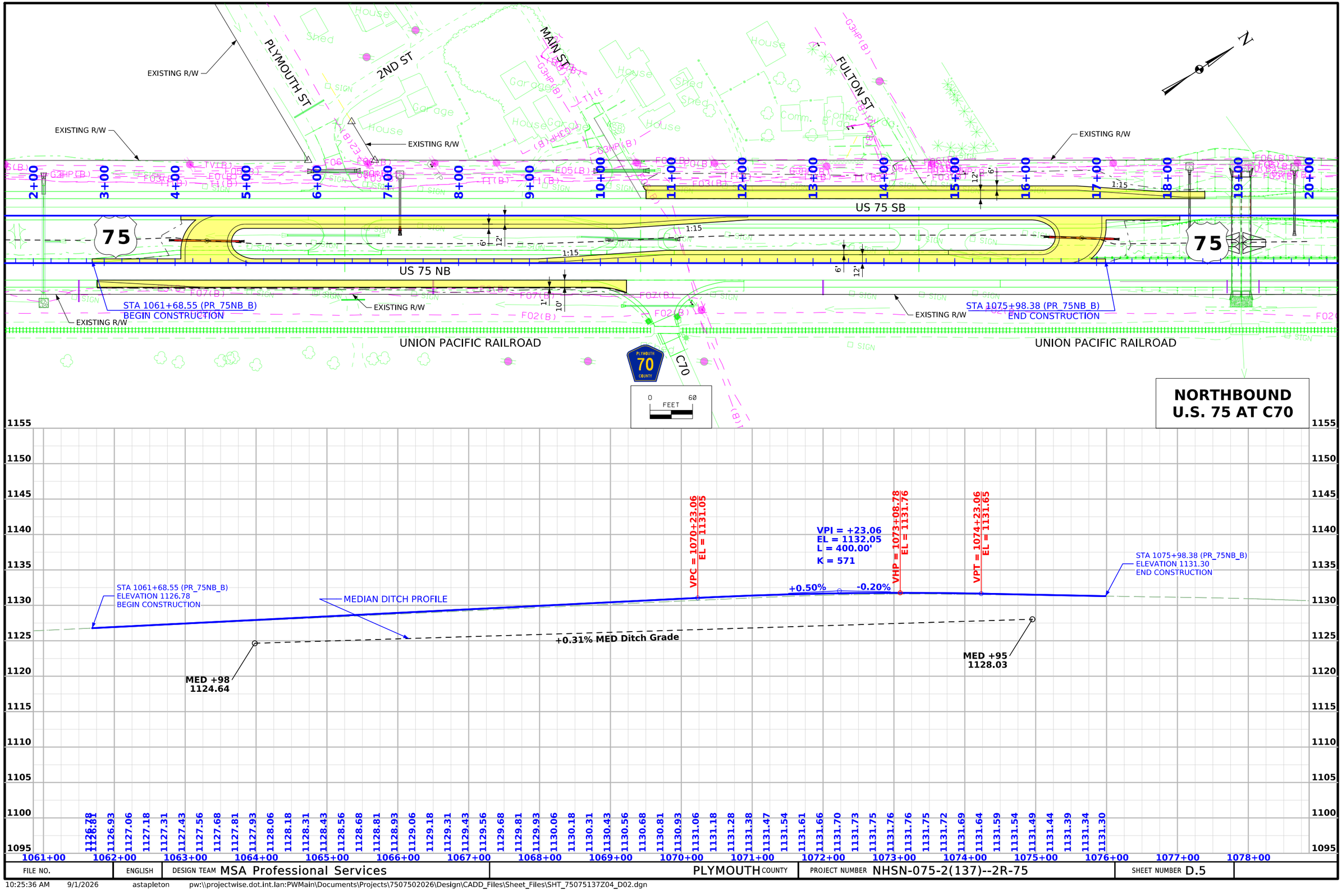
FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER D.3

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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER D.4

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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER D.5

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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	PR_75NB_A	1002+14.72	8614058.019	14096511.34															
2.0	2	PR_75NB_A	1006+69.80	8614388.187	14096824.52															
3.0	3	PR_75NB_A	1007+51.97	8614447.793	14096881.09															
4.0	4	PR_75NB_A	1011+07.68	8614705.825	14097125.94															
5.0	5	PR_75NB_A	1014+26.15	8614936.794	14097345.2															
6.0	6	PR_75NB_A	1019+26.68	8615299.943	14097689.66															
7.0	6	PR_75NB_A	1024+14.09	8615653.839	14098024.8															
8.0																				
9.0	1	PR_75SB_A	2+28.19	8614102.355	14096465.07															
10.0	2	PR_75SB_A	7+38.13	8614472.233	14096816.11															
11.0	3	PR_75SB_A	11+96.49	8614804.68	14097131.66															
12.0	4	PR_75SB_A	14+79.29	8615009.713	14097326.43															
13.0	5	PR_75SB_A	19+02.56	8615316.885	14097617.65															
14.0	6	PR_75SB_A	19+84.64	8615376.428	14097674.14															
15.0	6	PR_75SB_A	24+26.90	8615697.804	14097977.96															
16.0																				
17.0	1	PR_75NB_B	1058+85.67	8618434.508	14100086.53															
18.0	2	PR_75NB_B	1062+99.68	8618780.406	14100314.04															
19.0	3	PR_75NB_B	1064+01.21	8618865.233	14100369.83															
20.0	4	PR_75NB_B	1067+98.88	8619197.48	14100588.36															
21.0	5	PR_75NB_B	1075+50.33	8619825.304	14101001.29															
22.0	5	PR_75NB_B	1080+84.74	8620271.794	14101294.96															
23.0																				
24.0	1	PR_75SB_B	58+82.81	8618471.405	14100030.61															
25.0	2	PR_75SB_B	63+46.73	8618858.997	14100285.53															
26.0	3	PR_75SB_B	70+91.03	8619480.852	14100694.54															
27.0	4	PR_75SB_B	74+93.62	8619817.226	14100915.75															
28.0	5	PR_75SB_B	75+90.28	8619897.969	14100968.89															
29.0	6	PR_75SB_B	77+20.30	8620006.615	14101040.3															
30.0	6	PR_75SB_B	80+81.69	8620308.568	14101238.87															
31.0																				
32.0	1	PR_DITCH_C80	10+00.00	8614080.448	14096488.86															
33.0	2	PR_DITCH_C80	14+57.64	8614412.55	14096803.73															
34.0	3	PR_DITCH_C80	15+40.54	8614468.446	14096864.95															
35.0	4	PR_DITCH_C80	18+92.18	8614723.531	14097106.99															
36.0	5	PR_DITCH_C80	20+71.46	8614857.648	14097225.96															
37.0	6	PR_DITCH_C80	22+50.74	8614991.765	14097344.93															
38.0	7	PR_DITCH_C80	26+70.38	8615296.18	14097633.77															
39.0	8	PR_DITCH_C80	26+89.07	8615308.845	14097647.52															
40.0	9	PR_DITCH_C80	26+96.09	8615313.6	14097652.68															
41.0	10	PR_DITCH_C80	27+53.36	8615352.405	14097694.8															
42.0	11	PR_DITCH_C80	27+78.44	8615368.221	14097714.26															
43.0	12	PR_DITCH_C80	27+85.50	8615372.674	14097719.74															
44.0	13	PR_DITCH_C80	27+86.74	8615373.458	14097720.71															
45.0	14	PR_DITCH_C80	28+39.15	8615411.136	14097757.13															
46.0	14	PR_DITCH_C80	31+98.67	8615675.334	14098000.97															
47.0																				
48.0	1	PR_DITCH_C70	+.00	8618453.37	14100058.84															

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
49.0	2	PR_DITCH_C70	2+95.78	8618699.654	14100222.64															
50.0	3	PR_DITCH_C70	3+91.17	8618781.345	14100271.9															
51.0	4	PR_DITCH_C70	3+98.18	8618787.343	14100275.52															
52.0	5	PR_DITCH_C70	4+16.52	8618801.154	14100287.59															
53.0	6	PR_DITCH_C70	4+90.47	8618860.307	14100331.97															
54.0	7	PR_DITCH_C70	4+97.48	8618865.917	14100336.18															
55.0	8	PR_DITCH_C70	5+13.50	8618878.725	14100345.79															
56.0	9	PR_DITCH_C70	9+12.71	8619212.253	14100565.17															
57.0	10	PR_DITCH_C70	10+27.95	8619310.618	14100625.21															
58.0	11	PR_DITCH_C70	10+91.55	8619365.954	14100656.56															
59.0	12	PR_DITCH_C70	12+08.88	8619466.078	14100717.73															
60.0	13	PR_DITCH_C70	16+07.98	8619799.511	14100937.05															
61.0	14	PR_DITCH_C70	16+26.23	8619814.111	14100948															
62.0	15	PR_DITCH_C70	16+33.24	8619819.722	14100952.21															
63.0	16	PR_DITCH_C70	17+05.12	8619877.22	14100995.34															
64.0	17	PR_DITCH_C70	17+26.35	8619890.525	14101011.89															
65.0	18	PR_DITCH_C70	17+33.35	8619896.421	14101015.66															
66.0	18	PR_DITCH_C70	20+01.71	8620122.455	14101160.32															

Alignments are offset lines from the edge of pavement and are not located at the centerline of the roadway.

108_23A

8/15/22

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. Road closures:
   Stage 1 - Permanent closure of Fulton St.
   Stage 2 - None.
   Stage 3A - None.
   Stage 3B - C80 at intersection with SB US75.
3. All open trenches shall be filled to the level of the adjoining pavement before opening the land to traffic.
4. The contractor shall maintain access to all businesses and private driveways through the duration of the project.
5. All traffic control devices will be furnished, erected, maintained, and removed by the contractor.
6. Contractor shall coordinate traffic control with other projects in the area.
7. At least one lane of traffic in each direction on US75 through the work area shall be maintained at all times.
8. All construction traffic control and staging shall be the responsibility of the Contractor. The Contractor shall notify the Engineer 14 days prior to the requested closure time.
9. Proposed permanent pavement markings shall be installed in such a way as to not conflict with any temporary traffic control.
10. Detour signs are to be covered when detour route is not in effect. The Contractor shall maintain detour signing along the route.
11. Where possible, all post-mounted signs shall be placed so the edge of the sign is at least 2-feet beyond the curb or edge of shoulder. All signs to be in place longer than three days must be post-mounted.
12. Permanent signing that conveys a message contrary to the message for temporary signing and not applicable to the working conditions shall be covered by the Contractor when directed by the Engineer.
13. Notify the Engineer 10 days prior to removing the entrance to Fulton Street.

STAGING NOTES

Stage 1
Construction:
1. Grade and pave right turn lanes along US75 to Highland Ave, C70 eastbound, and Main St in James.
2. Remove existing median crossings at Plymouth St and Fulton St in James.
3. Remove and permanently close Fulton St in James.

Traffic:
1. Place Portable Dynamic Message Signs (PDMS) 7 days before construction begins. Consult with District Traffic Technician/Resident Construction Engineer for PDMS message to be displayed.
2. Maintain existing access at US 75 and C80/Highland intersection and US 75 and C70/Main St in James.
3. Close outside lanes on US 75 NB and SB and operate as single lane traffic.

Stage 2
Construction:
1. Grade and pave left turn lanes and U-turns at C80/Highland Ave and C70/Main St in James.
2. Install proposed signage and lighting within work area for use of left turn lanes and U-turns in Stage 3A.

Traffic:
1. Place portable dynamic message signs (PDMS) 7 days before construction begins. Consult with District Traffic Technician/Resident Construction Engineer for PDMS message to be displayed.
2. Maintain cross traffic access at US 75 and C80/Highland Ave intersection and US 75 and C70/Main St intersection in James.
3. Right turn lanes to Highland Ave, C70 EB, and Main St in James open to traffic.
4. Shift lane closures to median lanes and operate single lane traffic in outside lanes of US 75 NB and SB.

Stage 3A
Construction:
1. Remove existing median crossings at C80/Highland Ave and C70/Main St in James.
2. Grade and pave remainder of left turn lanes at C80/Highland Ave and C70/Main St in James.
3. Complete median ditch grading along US 75.
4. Install remainder of signage and lighting per plans.

Traffic:
1. Place portable dynamic message signs (PDMS) 7 days before construction begins. Consult with District Traffic Technician/Resident Construction Engineer for PDMS message to be displayed.
2. Majority of left turn lanes and U-turns at C80/Highland Ave and C70/Main St in James open to traffic.
3. Maintain single lane operation on both US 75 NB and EB from Stage 2.

Stage 3B
Construction:
1. Construct raised median island at C80 and US 75 SB intersection.

Traffic:
1. Place portable dynamic message signs (PDMS) 7 days before construction begins. Consult with District Traffic Technician/Resident Construction Engineer for PDMS message to be displayed.
2. Close C80 intersection at US 75 SB.
3. Detour C80 traffic as shown in plans.
4. Close right turn lane on US 75 SB approaching C80. Maintain all other traffic.

111_01
10/14/22

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
None.	None.

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
Orange	(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	1	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)



SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.5	

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SPECIFIC NOTE:

(1) PLACE 1000' BEFORE W20-5 SIGN

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.6	

10:29:55 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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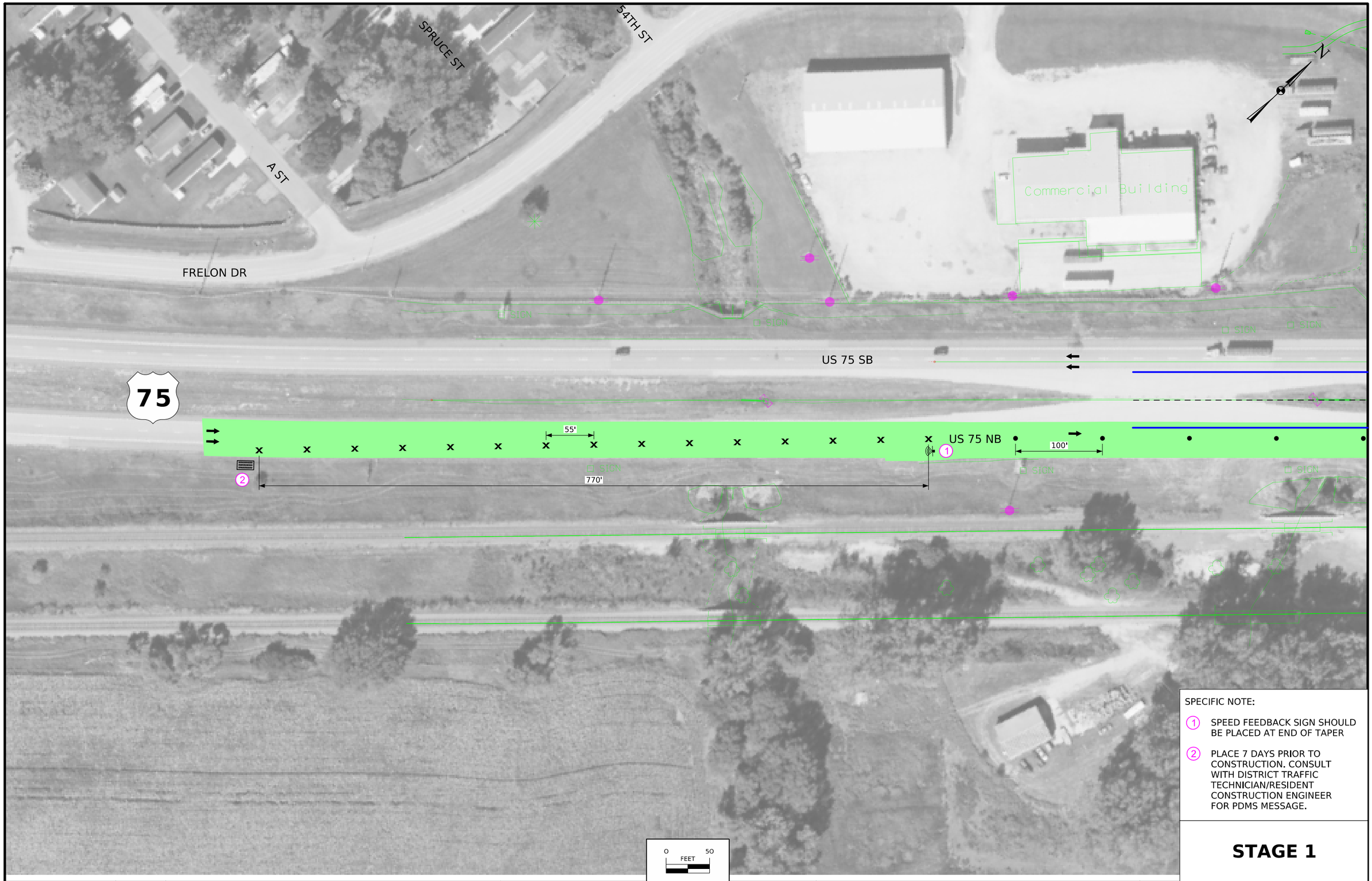


STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.7	

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SPECIFIC NOTE:

1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO CONSTRUCTION. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.8	

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ROAD WORK AHEAD

W20-1
48" x 48"

FRELON DR

500'

C80

US 75 SB

75

100'-0"

US 75 NB

STA 1005+80.02 (PR_75NB_A)
BEGIN CONSTRUCTION

STA 1012+47.00 (PR_75NB_A)
END CONSTRUCTION

100'

HIGHLAND AVE

200'

ROAD WORK AHEAD

W20-1
48" x 48"

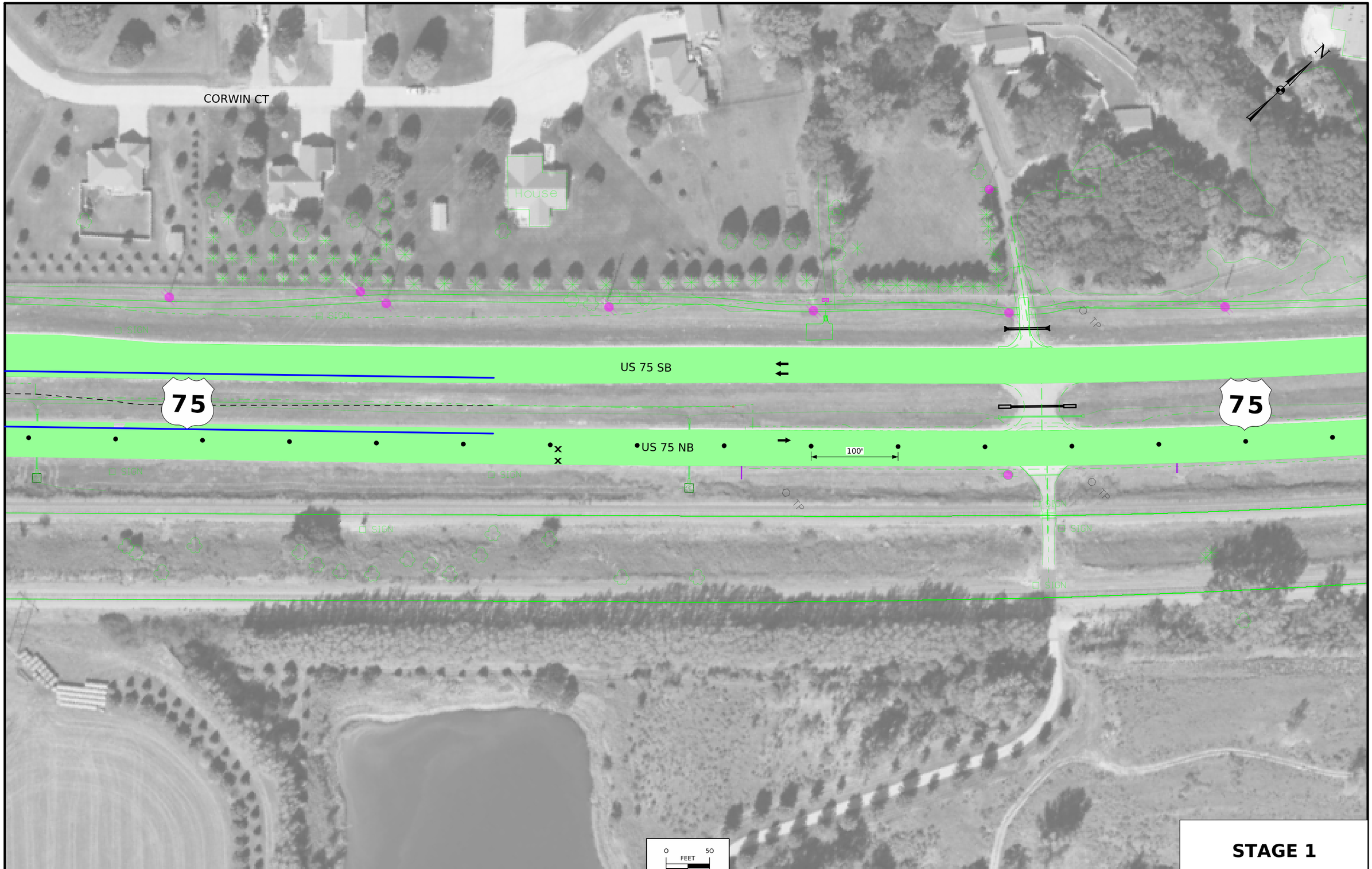
0 50
FEET

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.9	

10:30:08 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.10	

10:30:11 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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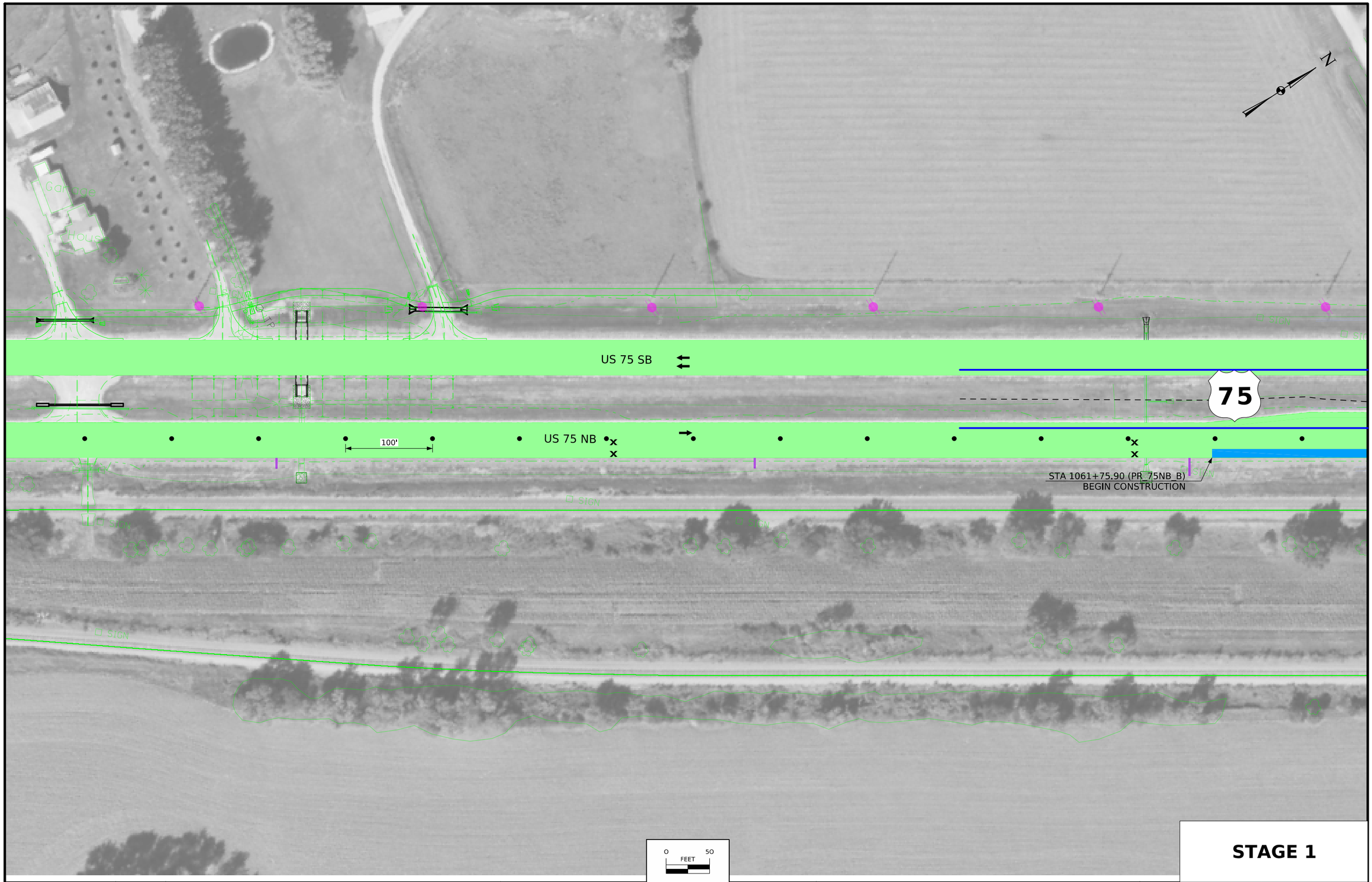


STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.11	

10:30:18 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

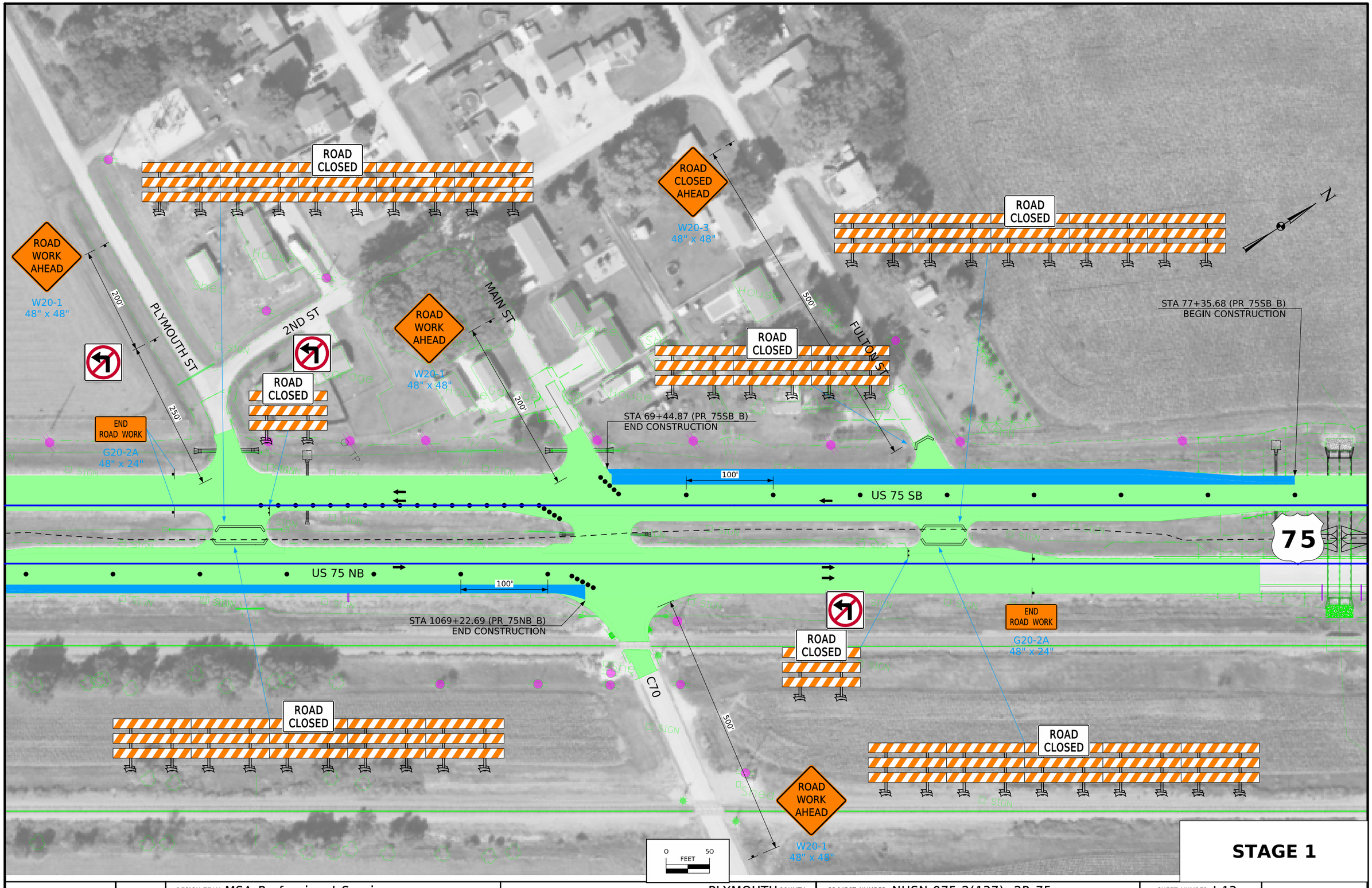
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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.12	

10:30:25 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

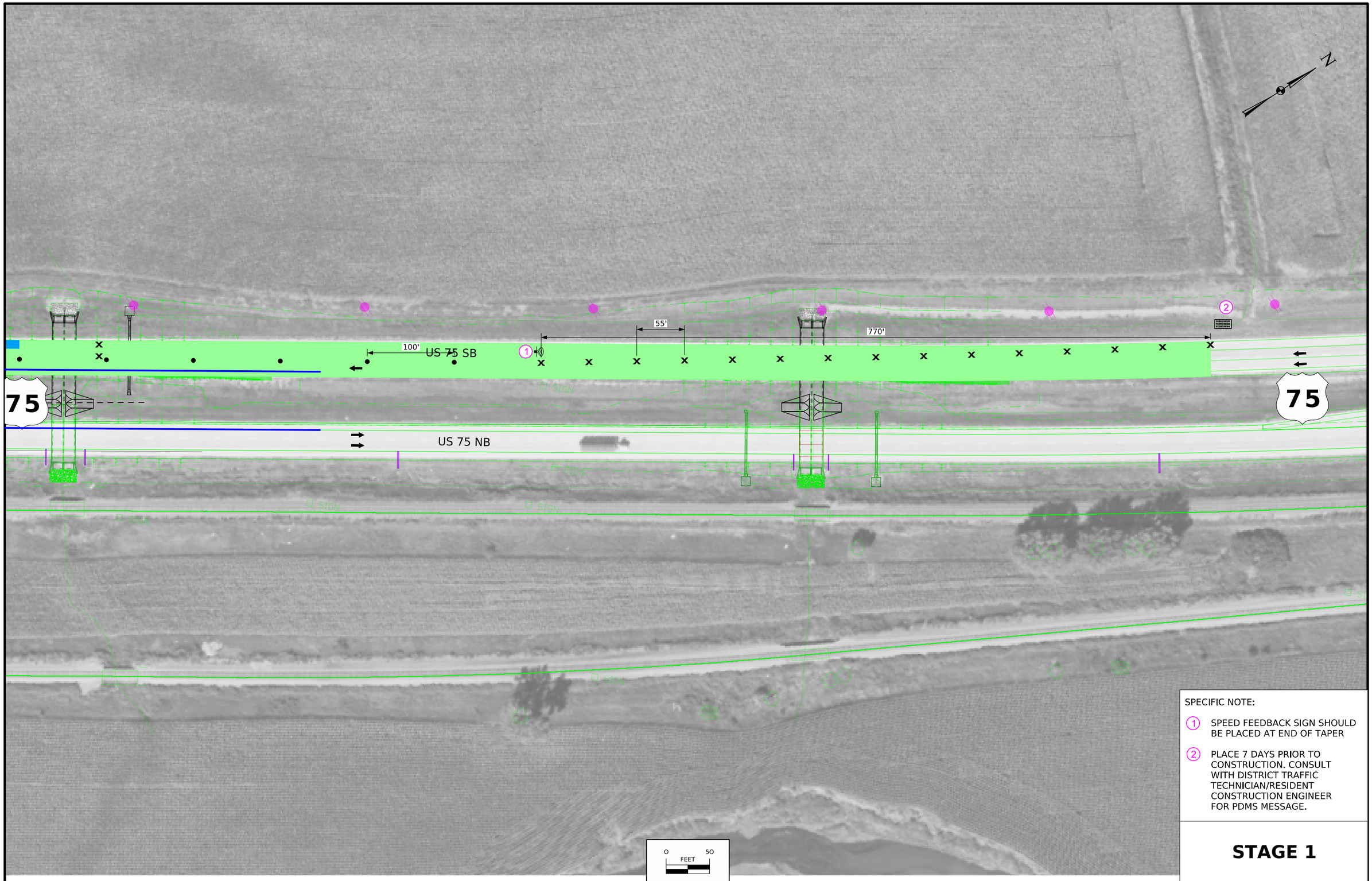
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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.13

10:30:34 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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SPECIFIC NOTE:

1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO CONSTRUCTION. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.14	

10:30:45 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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ROAD WORK AHEAD
W20-1
48" x 48"

200'

325TH ST

500' TO START OF DRUMS

500'

MERGE
W4-2M
48" x 48"

US 75 SB

US 75 NB

W4-2
48" x 48"

75

75

N

0 50
FEET

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.15	

10:30:55 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE W20-5 SIGN

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.16	

10:31:00 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 1

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.17	

10:31:18 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S1.dgn

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.18

10:31:27 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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SPECIFIC NOTE:

(1) PLACE 1000' BEFORE R2-1 SIGN

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.19	

10:31:28 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.20	

10:31:29 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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SPECIFIC NOTE:

1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO TRAFFIC PATTERN SHIFT. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.21

10:31:30 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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ROAD WORK AHEAD

W20-1
48" x 48"

FRELON DR

500'

C80

EXIT

G20-23
48" x 48"

STA 19+10.34 (PR_75SB_A)
END CONSTRUCTION

STA 6+77.69 (PR_75SB_A)
END CONSTRUCTION

STA 12+39.02 (PR_75SB_A)
BEGIN CONSTRUCTION

100'

100'

25'

US 75 SB

75

US 75 NB

100'

25'

STA 1006+38.83 (PR_75NB_A)
BEGIN CONSTRUCTION

STA 1007+51.97 (PR_75NB_A)
END CONSTRUCTION

HIGHLAND AVE

200'

STA 1013+43.86 (PR_75NB_A)
BEGIN CONSTRUCTION

EXIT

G20-23
48" x 48"

ROAD WORK AHEAD

W20-1
48" x 48"

N

0 50
FEET

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.22

10:31:31 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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CORWIN CT

House

STA 20+25.64 (PR_75SB_A)
BEGIN CONSTRUCTION

100'

US 75 SB

75

100'

US 75 NB

STA 1019+77.48 (PR_75NB_A)
END CONSTRUCTION

SIGN

O TP

N

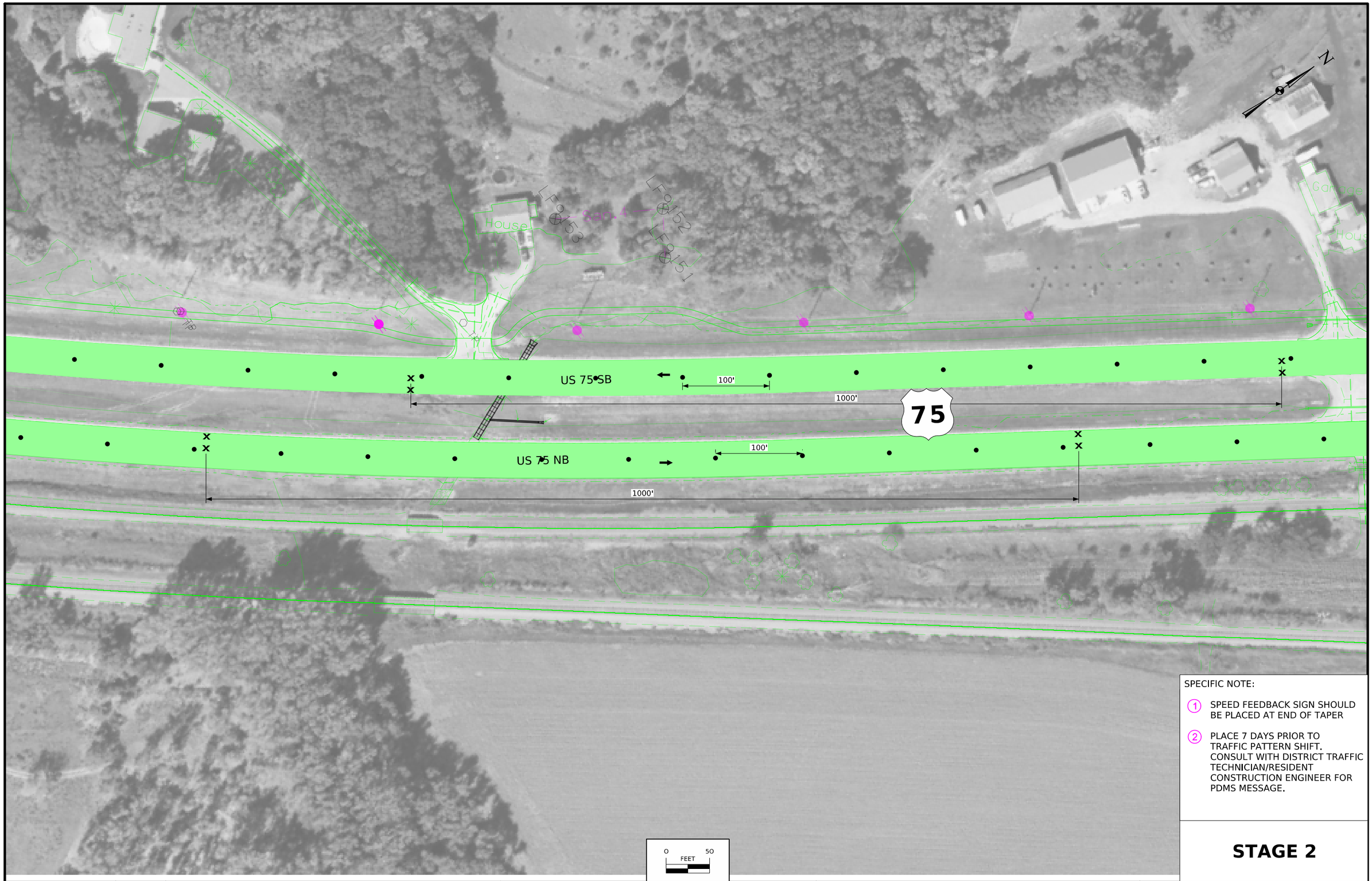
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FEET

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.23

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SPECIFIC NOTE:

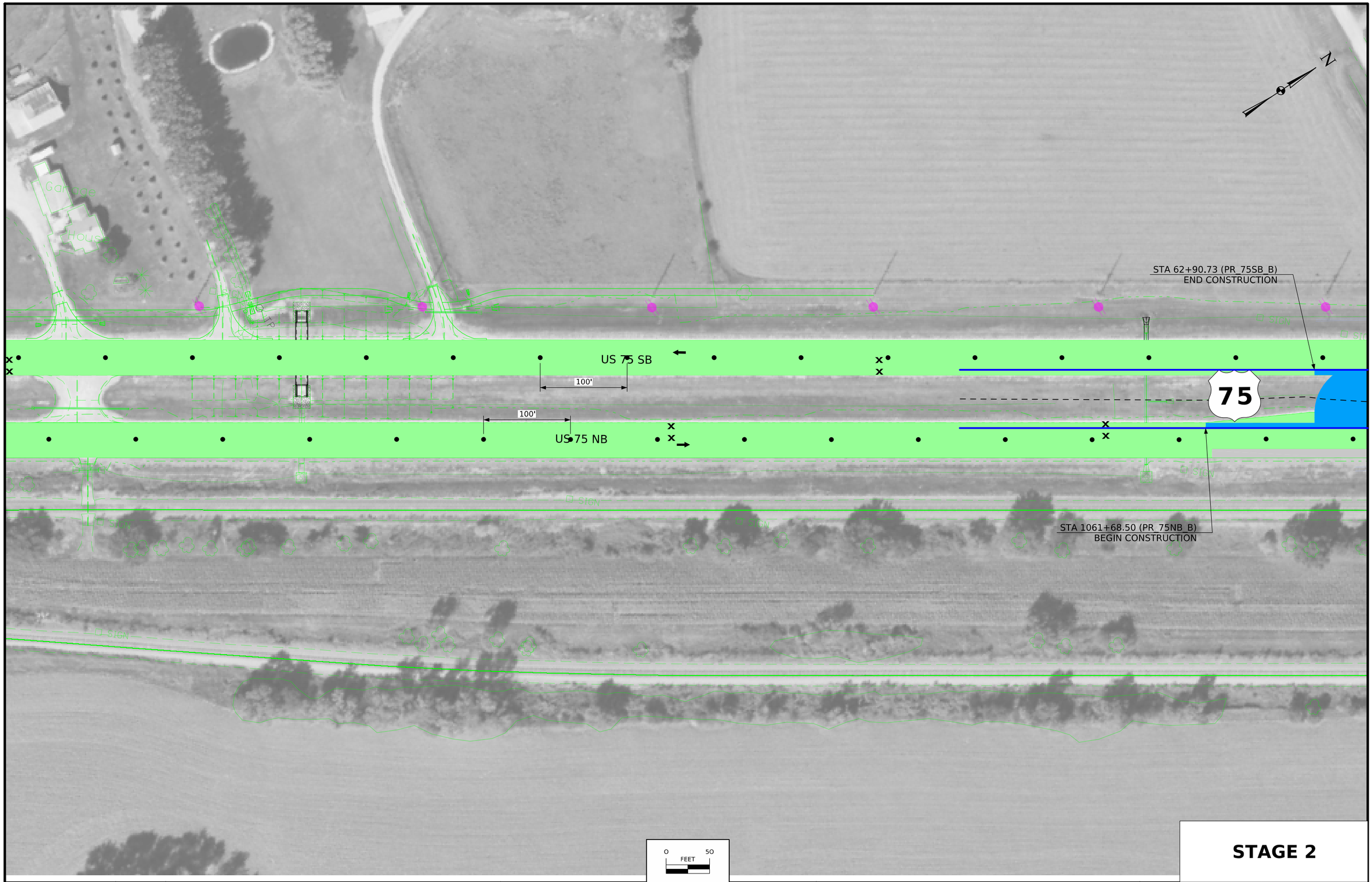
1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO TRAFFIC PATTERN SHIFT. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.24	

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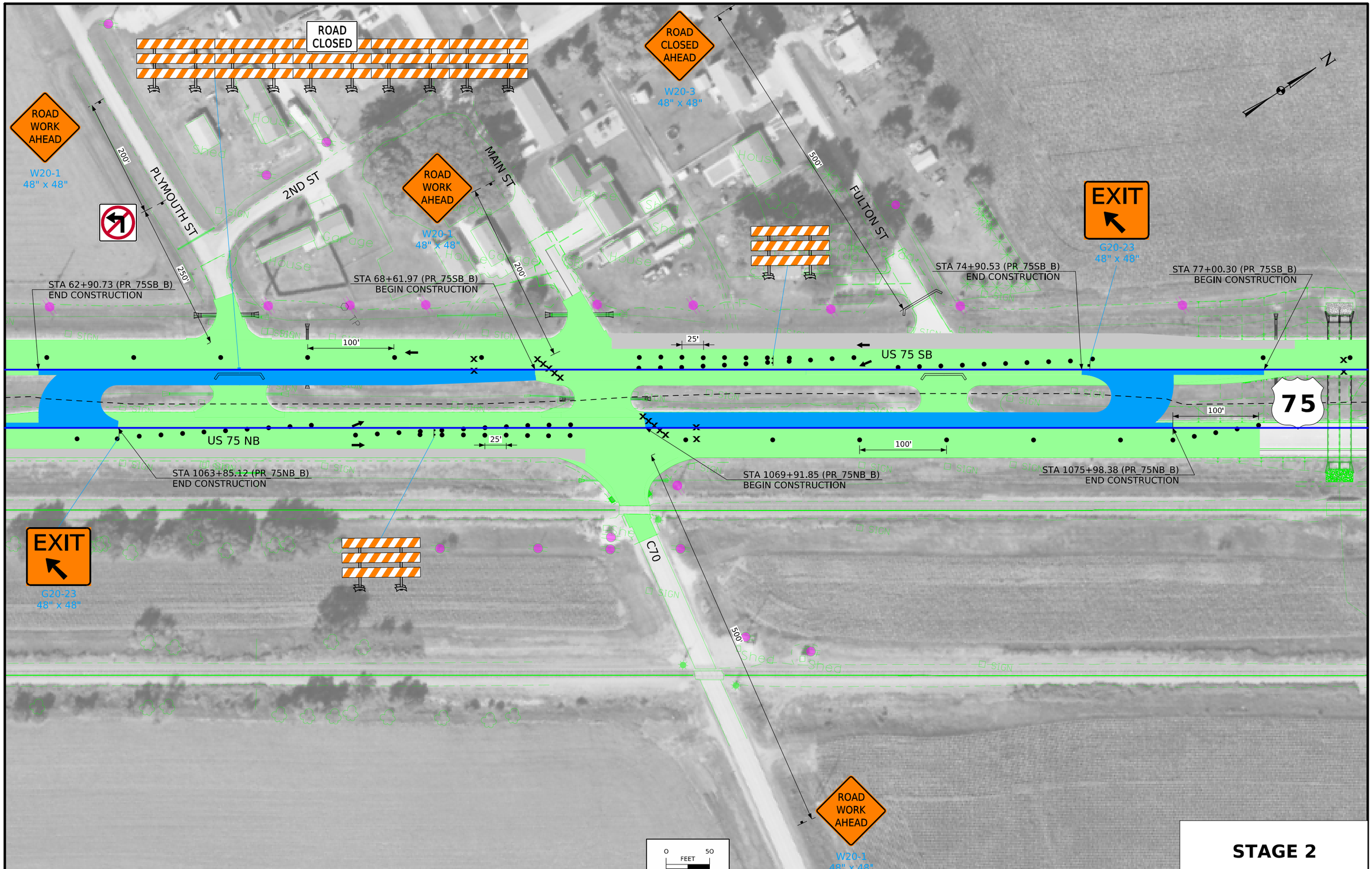


STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.25	

10:31:46 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.26	

10:31:53 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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SPECIFIC NOTE:

1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO TRAFFIC PATTERN SHIFT. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.27

10:32:03 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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ROAD WORK AHEAD

W20-1
48" x 48"

200'

325TH ST

500' TO START OF DRUMS

500'

MERGE

W4-2M
48" x 48"

US 75 SB

US 75 NB

75

75

W4-2
48" x 48"

N

0 50
FEET

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.28	

10:32:11 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S2.dgn

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SPECIFIC NOTE:

1. PLACE 1000' BEFORE R2-1 SIGN

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.29	

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 2

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.30	

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.31	

10:32:26 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3A.dgn

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.32

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STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.33

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SPECIFIC NOTE:

1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO TRAFFIC PATTERN SHIFT. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.34

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ROAD WORK AHEAD

W20-1
48" x 48"

FRELON DR

500'

C80

STA 12+39.02 (PR_75SB_A)
END CONSTRUCTION

STA 19+12.73 (PR_75SB_A)
BEGIN CONSTRUCTION

END ROAD WORK

G20-2A
48" x 24"

100'

100'

US 75 SB

75

US 75 NB

100'

STA 1007+51.97 (PR_75NB_A)
BEGIN CONSTRUCTION

STA 1013+43.62 (PR_75NB_A)
END CONSTRUCTION

HIGHLAND AVE

200'

EXIT

G20-23
48" x 48"

ROAD WORK AHEAD

W20-1
48" x 48"

0 50
FEET

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.35

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CORWIN CT

House

SIGN

100'

US 75 SB

75

100'

US 75 NB

75

O TP

N

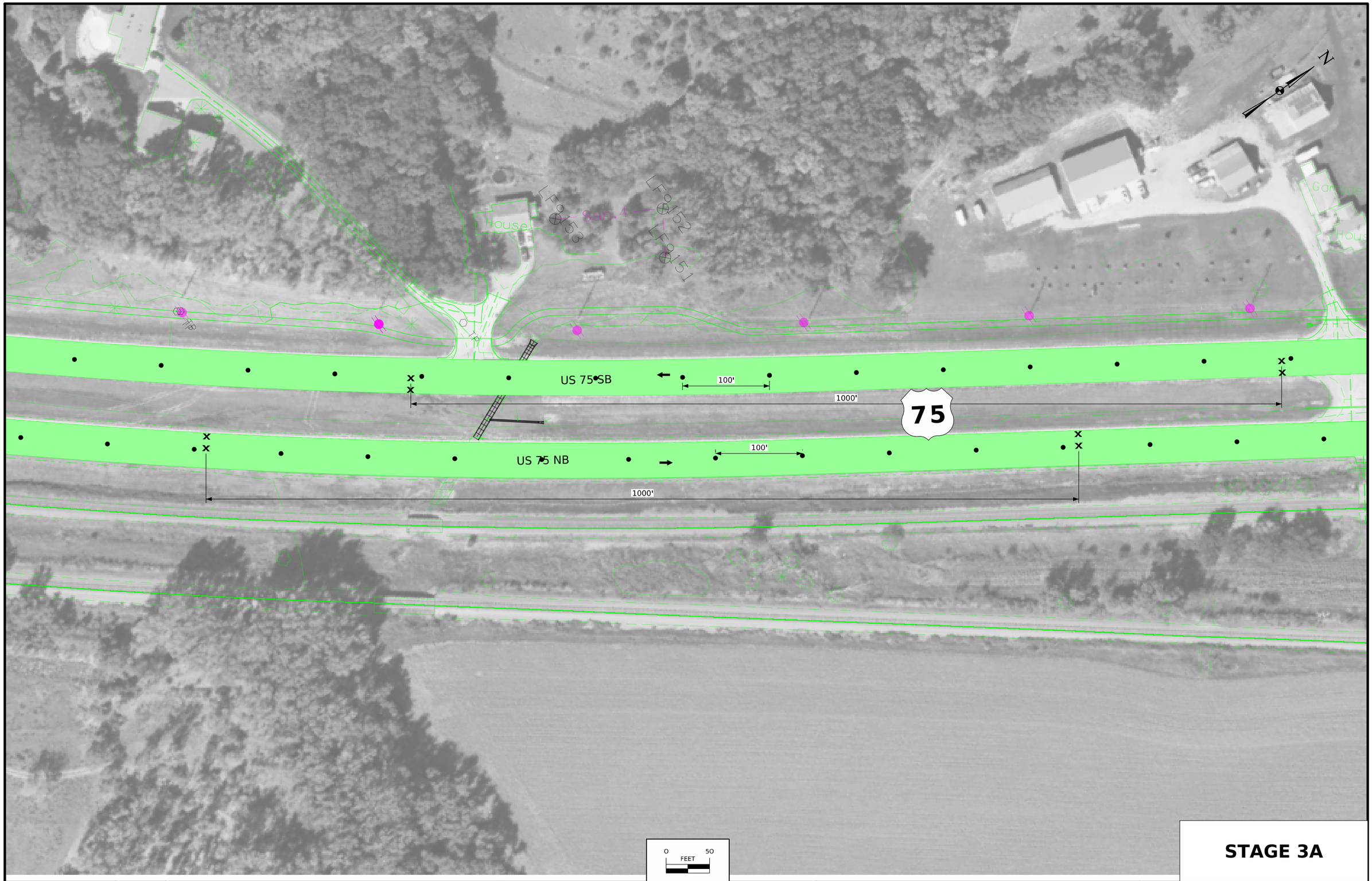
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FEET

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.36

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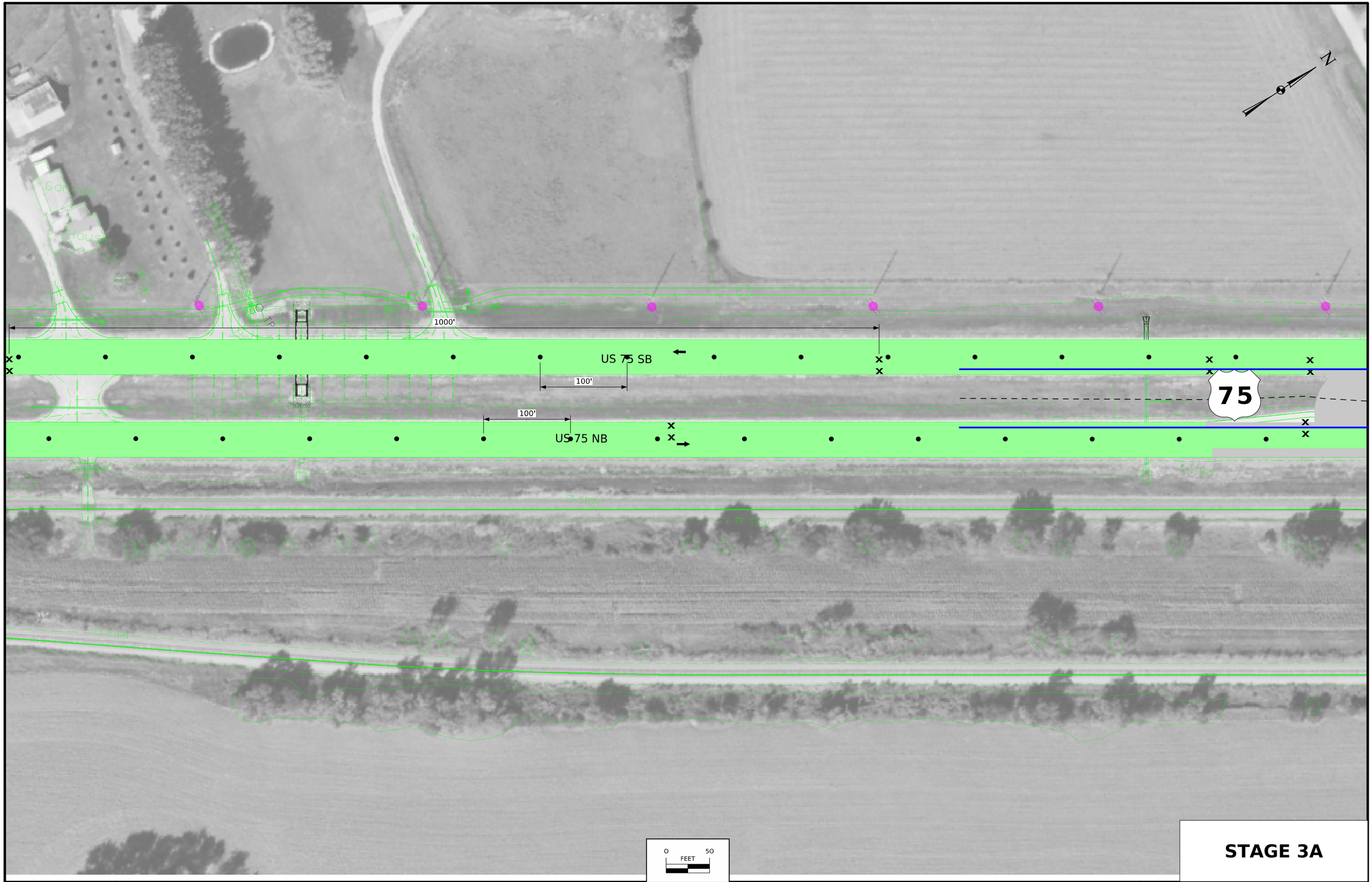


STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.37	

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STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.38

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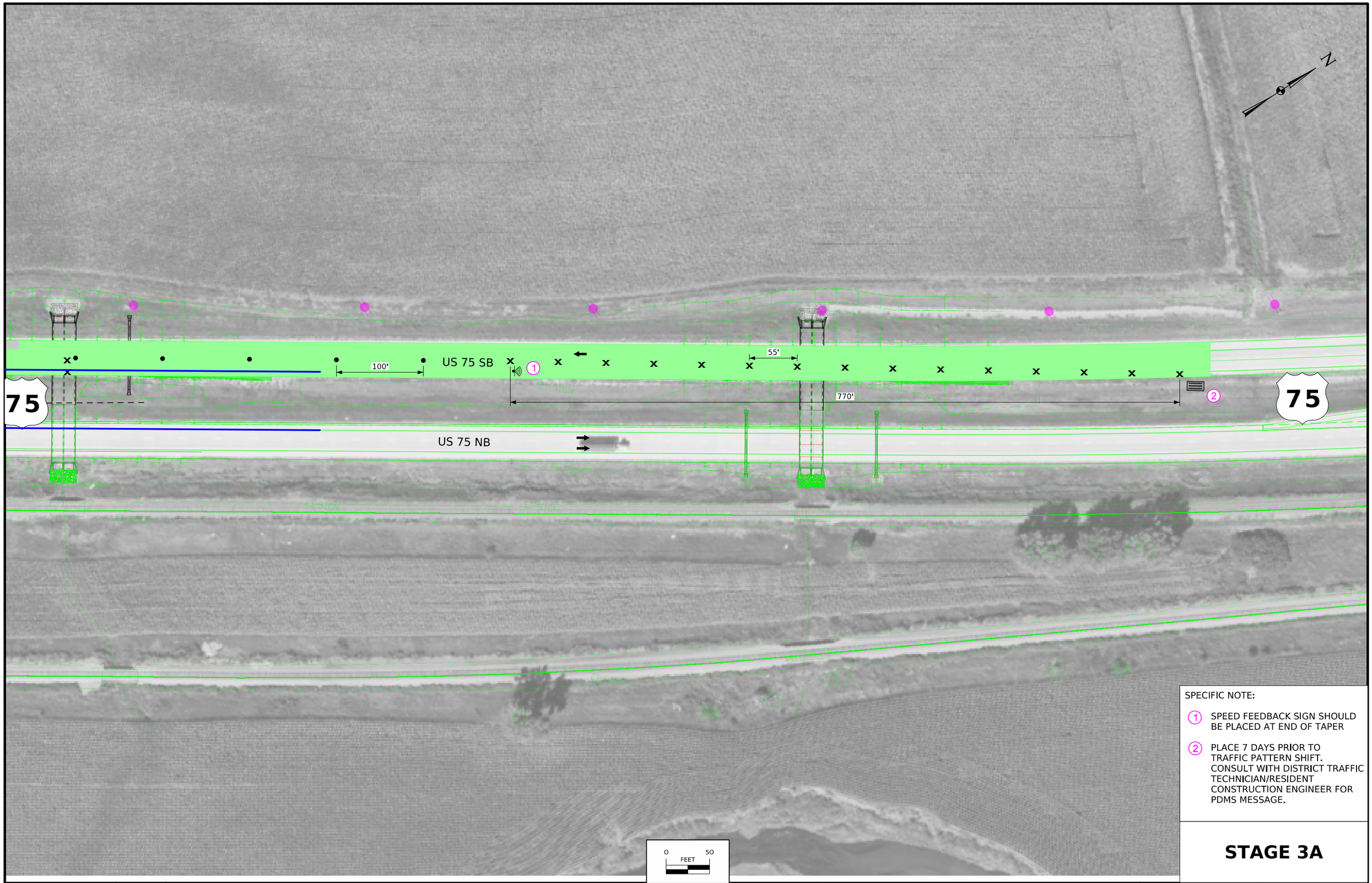
ROAD WORK AHEAD
W20-1
48" x 48"
200'
PLYMOUTH ST
250'
2ND ST
ROAD WORK AHEAD
W20-1
48" x 48"
MAIN ST
STA 68+61.97 (PR_75SB_B)
END CONSTRUCTION
200'
ROAD CLOSED AHEAD
W20-3
48" x 48"
500'
FULTON ST
EXIT
G20-23
48" x 48"
STA 74+90.53 (PR_75SB_B)
BEGIN CONSTRUCTION
100'
US 75 SB
75
100'
US 75 NB
100'
STA 1063+85.12 (PR_75NB_B)
BEGIN CONSTRUCTION
STA 1069+91.85 (PR_75NB_B)
END CONSTRUCTION
C70
500'
END ROAD WORK
G20-2A
48" x 24"
ROAD WORK AHEAD
W20-1
48" x 48"
N
0 50
FEET

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.39

10:32:49 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3A.dgn

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SPECIFIC NOTE:

1. SPEED FEEDBACK SIGN SHOULD BE PLACED AT END OF TAPER
2. PLACE 7 DAYS PRIOR TO TRAFFIC PATTERN SHIFT. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.40

10:32:54 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3A.dgn

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STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.41	

10:33:00 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3A.dgn

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SPECIFIC NOTE:

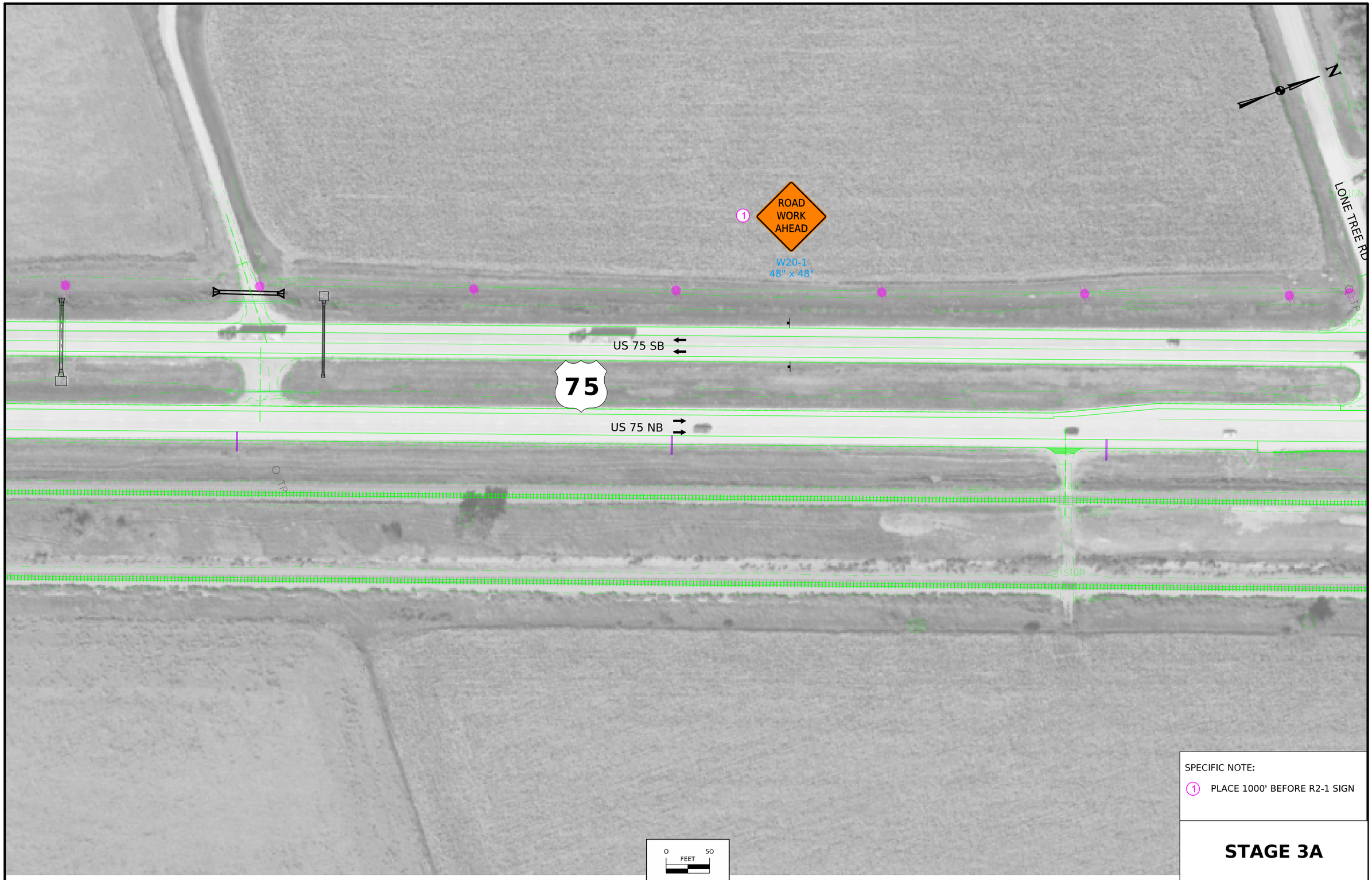
1. PLACE 1000' BEFORE R2-1 SIGN

STAGE 3A

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.42	

10:33:02 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3A.dgn

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SPECIFIC NOTE:

1 PLACE 1000' BEFORE R2-1 SIGN

STAGE 3A

0 50 FEET

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.43	

10:33:03 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3A.dgn

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ROAD CLOSED AHEAD

W20-3
48" x 48"

FRELON DR

ROAD CLOSED

1

500'

C80

STA 12+71.74 (PR_75SB_A)
END CONSTRUCTION

STA 13+01.14 (PR_75SB_A)
BEGIN CONSTRUCTION

END ROAD WORK

G20-2A
48" x 24"

100'

US 75 SB

100'

75

US 75 NB

HIGHLAND AVE

200'

ROAD CLOSED

ROAD WORK AHEAD

W20-1
48" x 48"

0 50
FEET

SPECIFIC NOTE:

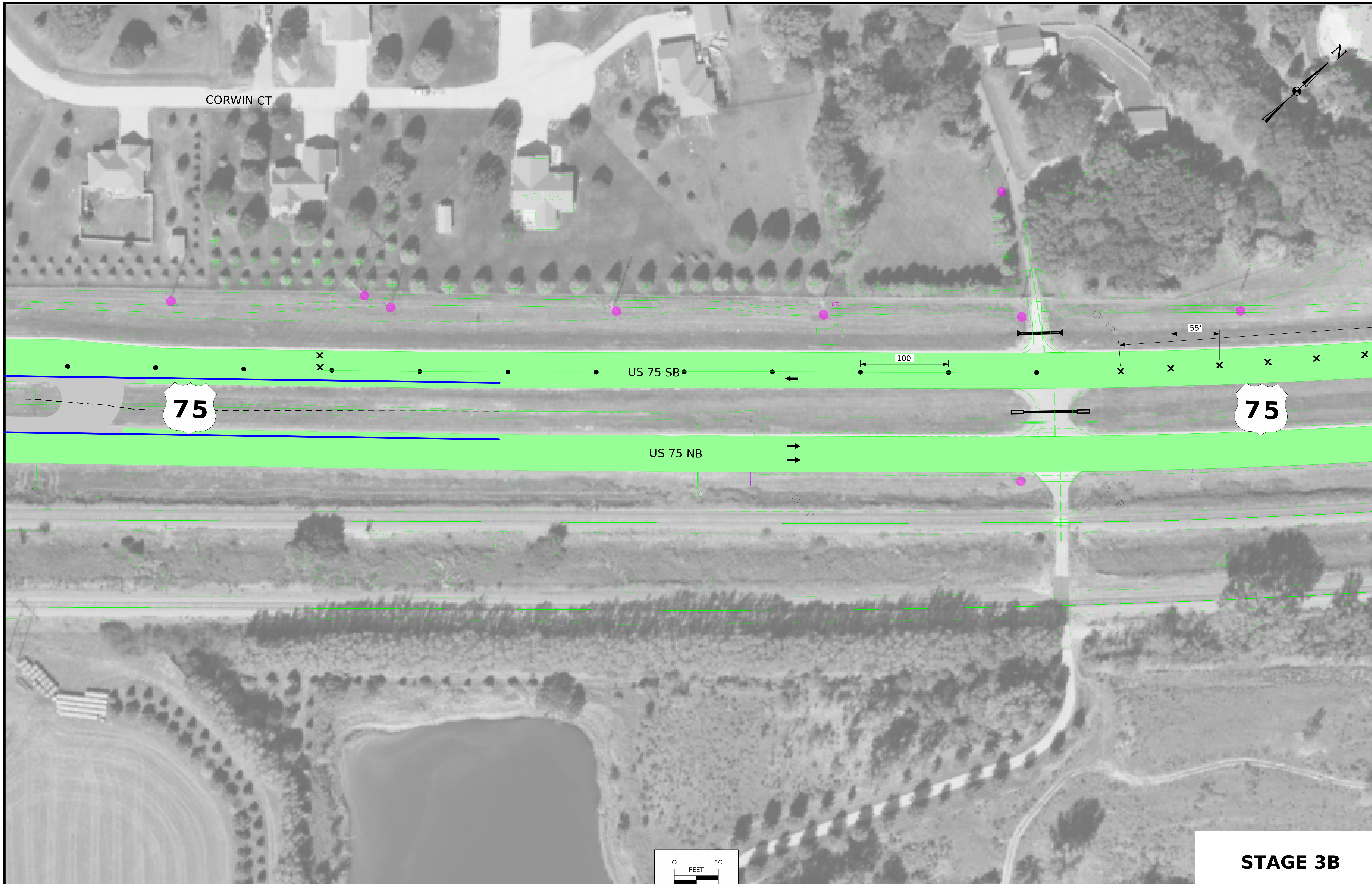
1. PLACE 7 DAYS PRIOR TO TRAFFIC PATTERN SHIFT. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGE.

STAGE 3B

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.44

10:33:11 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3B.dgn

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STAGE 3B

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services		PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.45	

10:33:14 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3B.dgn

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STAGE 3B

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.46	

10:33:19 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3B.dgn

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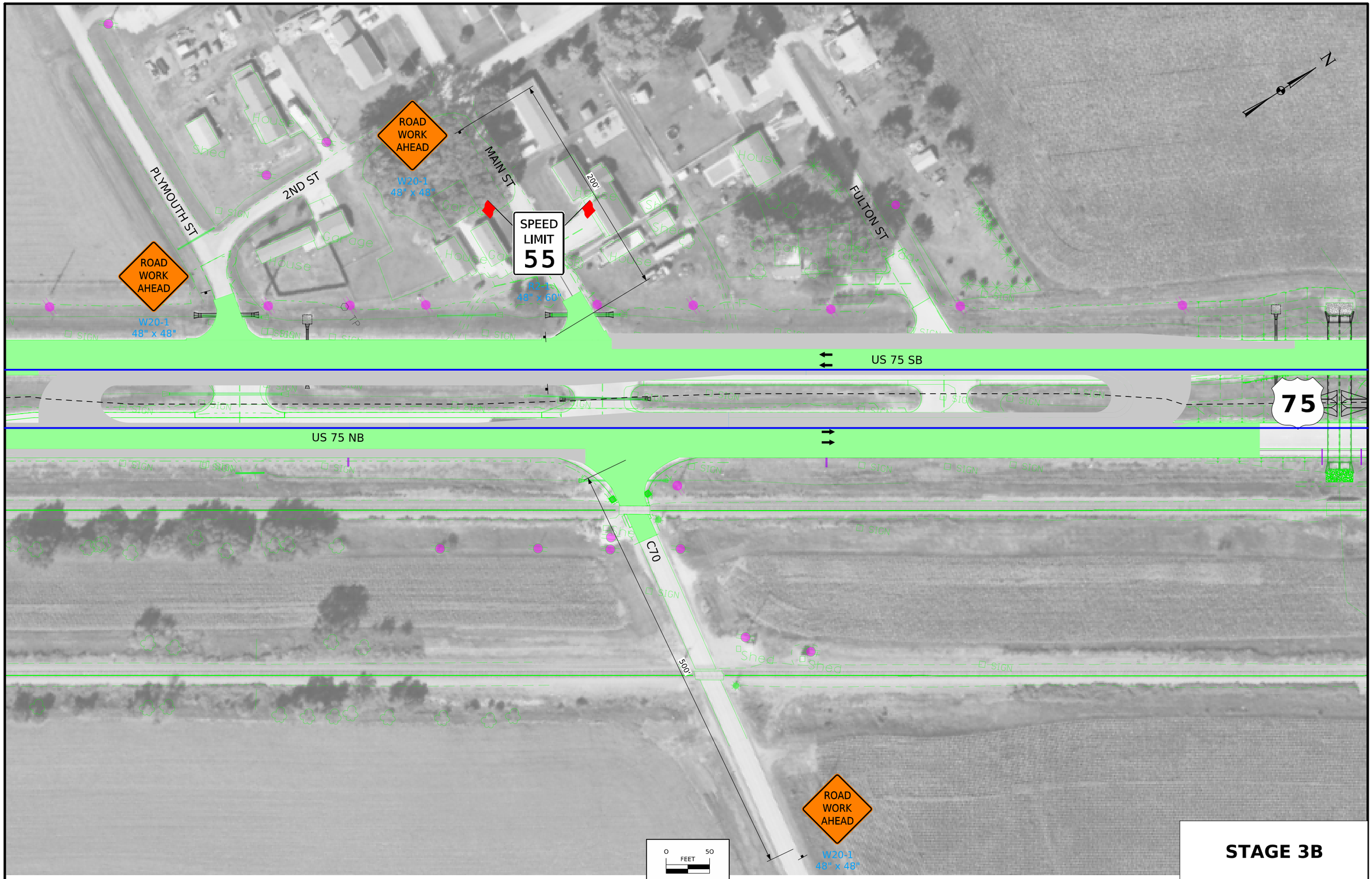


STAGE 3B

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.47

10:33:26 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3B.dgn

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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.48	

10:33:33 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3B.dgn

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STAGE 3B

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.49	

10:33:42 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J02_S3B.dgn

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ROAD DETOUR
US HIGHWAY 75 AND C70 & C80 INTERSECTIONS IMPROVEMENT PROJECT

TABULATION OF DETOUR SIGNS

"M" SERIES

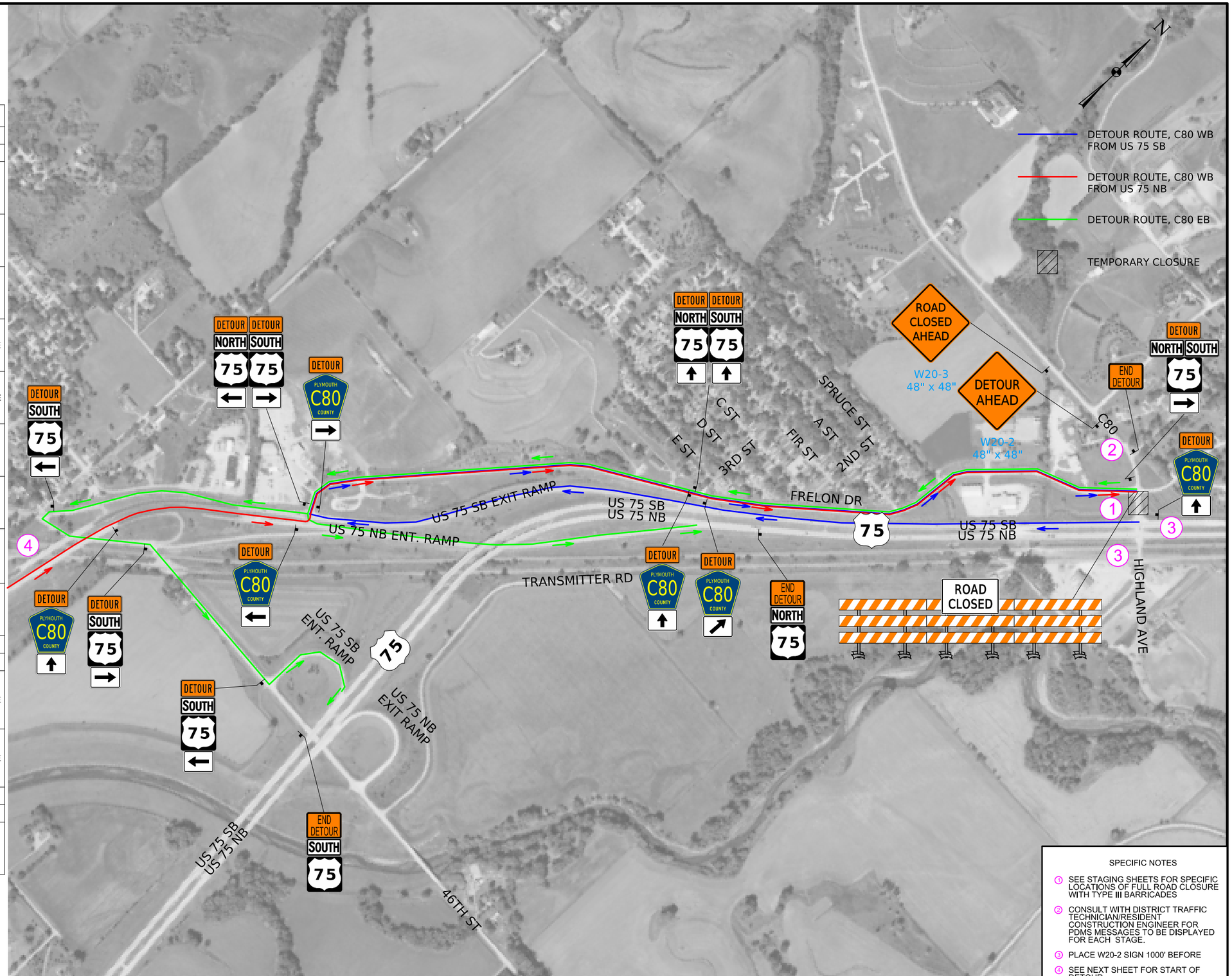
SIGN	TYPE	SIZE	COLOR
75	M1-4	24" x 24"	BLACK ON WHITE
NORTH	M3-1	24" x 12"	BLACK ON WHITE
SOUTH	M3-3	24" x 12"	BLACK ON WHITE
DETOUR	M4-8	24" x 12"	BLACK ON ORANGE
END DETOUR	M4-8a	24" x 18"	BLACK ON ORANGE
←	M6-1	21" x 15"	BLACK ON WHITE
→	M6-1	21" x 15"	BLACK ON WHITE
↑	M6-3	21" x 15"	BLACK ON WHITE
↗	M6-2	21" x 15"	BLACK ON WHITE

"W" SERIES

SIGN	TYPE	SIZE	COLOR
ROAD CLOSED AHEAD	W20-1	48" x 48"	BLACK ON ORANGE
DETOUR AHEAD	W20-2	48" x 48"	BLACK ON ORANGE

"R" SERIES

SIGN	TYPE	SIZE	COLOR
ROAD CLOSED	R11-2	48" x 30"	BLACK ON WHITE



SPECIFIC NOTES

1. SEE STAGING SHEETS FOR SPECIFIC LOCATIONS OF FULL ROAD CLOSURE WITH TYPE III BARRICADES
2. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGES TO BE DISPLAYED FOR EACH STAGE.
3. PLACE W20-2 SIGN 1000' BEFORE
4. SEE NEXT SHEET FOR START OF DETOUR

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER J.50

10:33:57 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J03-Detour.dgn

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ROAD DETOUR
US HIGHWAY 75 AND C70 & C80 INTERSECTIONS IMPROVEMENT PROJECT

TABULATION OF DETOUR SIGNS

"M" SERIES

SIGN	TYPE	SIZE	COLOR
75	M1-4	24" x 24"	BLACK ON WHITE
NORTH	M3-1	24" x 12"	BLACK ON WHITE
SOUTH	M3-3	24" x 12"	BLACK ON WHITE
DETOUR	M4-8	24" x 12"	BLACK ON ORANGE
END DETOUR	M4-8a	24" x 18"	BLACK ON ORANGE
←	M6-1	21" x 15"	BLACK ON WHITE
→	M6-1	21" x 15"	BLACK ON WHITE
↑	M6-3	21" x 15"	BLACK ON WHITE
↗	M6-2	21" x 15"	BLACK ON WHITE

"W" SERIES

SIGN	TYPE	SIZE	COLOR
ROAD CLOSED AHEAD	W20-1	48" x 48"	BLACK ON ORANGE
DETOUR AHEAD	W20-2	48" x 48"	BLACK ON ORANGE

"R" SERIES

SIGN	TYPE	SIZE	COLOR
ROAD CLOSED	R11-2	48" x 30"	BLACK ON WHITE



SPECIFIC NOTES

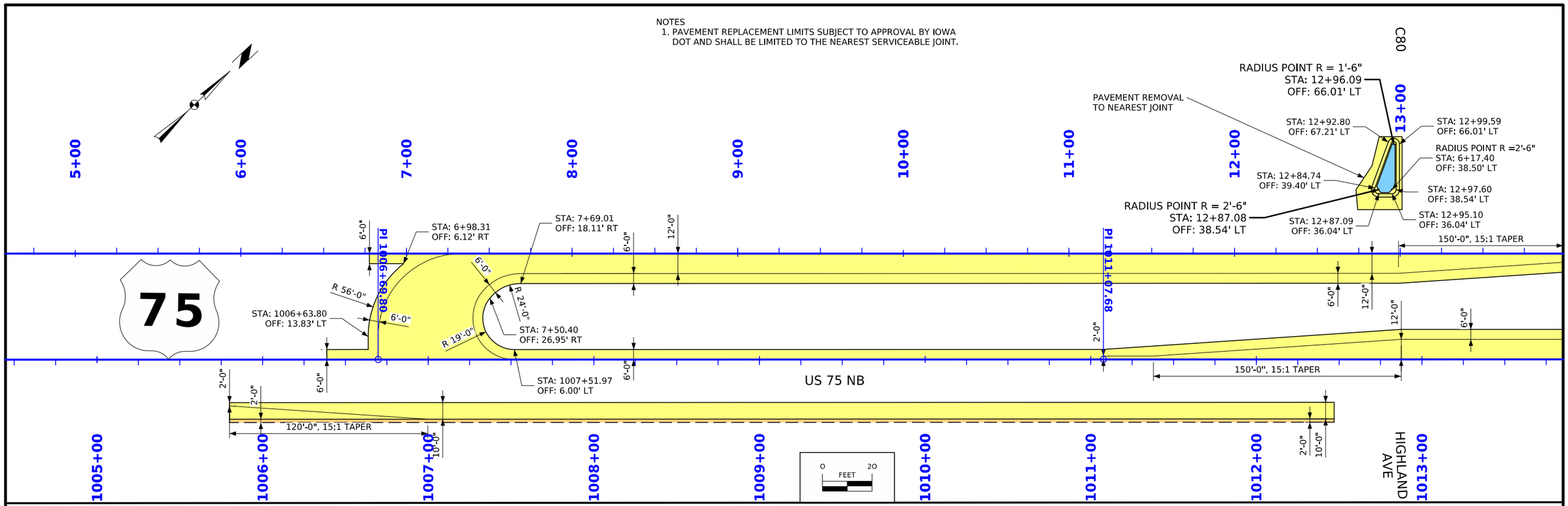
1. SEE STAGING SHEETS FOR SPECIFIC LOCATIONS OF FULL ROAD CLOSURE WITH TYPE III BARRICADES
2. CONSULT WITH DISTRICT TRAFFIC TECHNICIAN/RESIDENT CONSTRUCTION ENGINEER FOR PDMS MESSAGES TO BE DISPLAYED FOR EACH STAGE.
3. PLACE W20-2 SIGN 1000' BEFORE

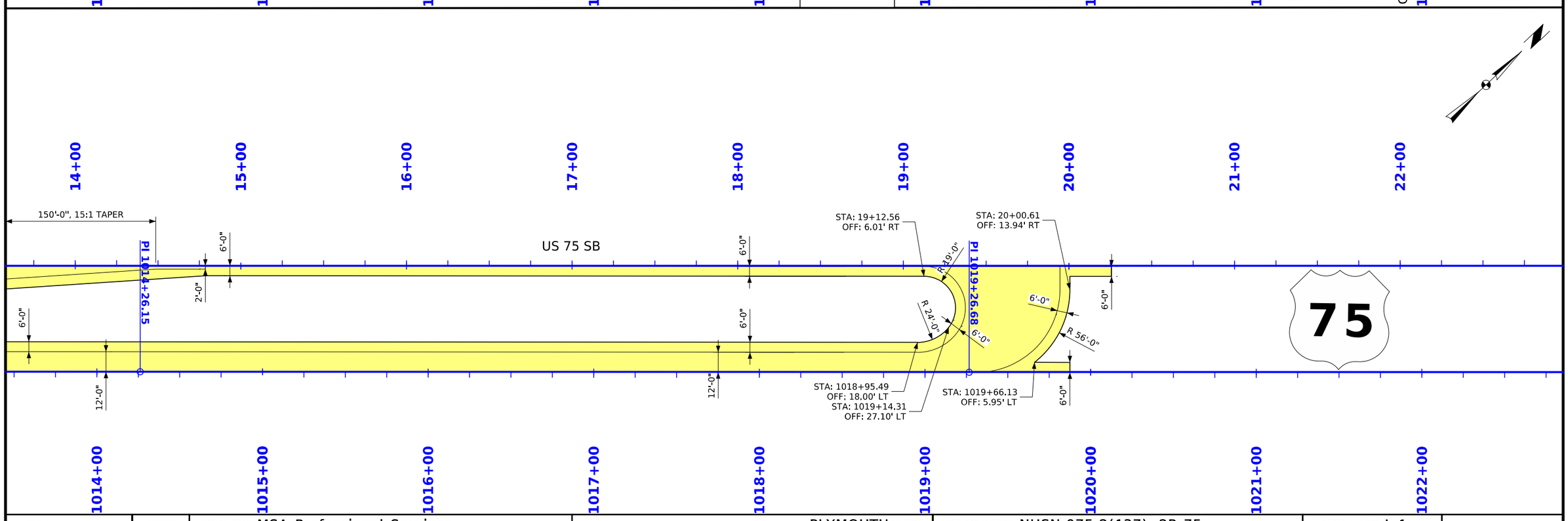
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10:34:04 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_J03-Detour.dgn

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NOTES
1. PAVEMENT REPLACEMENT LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

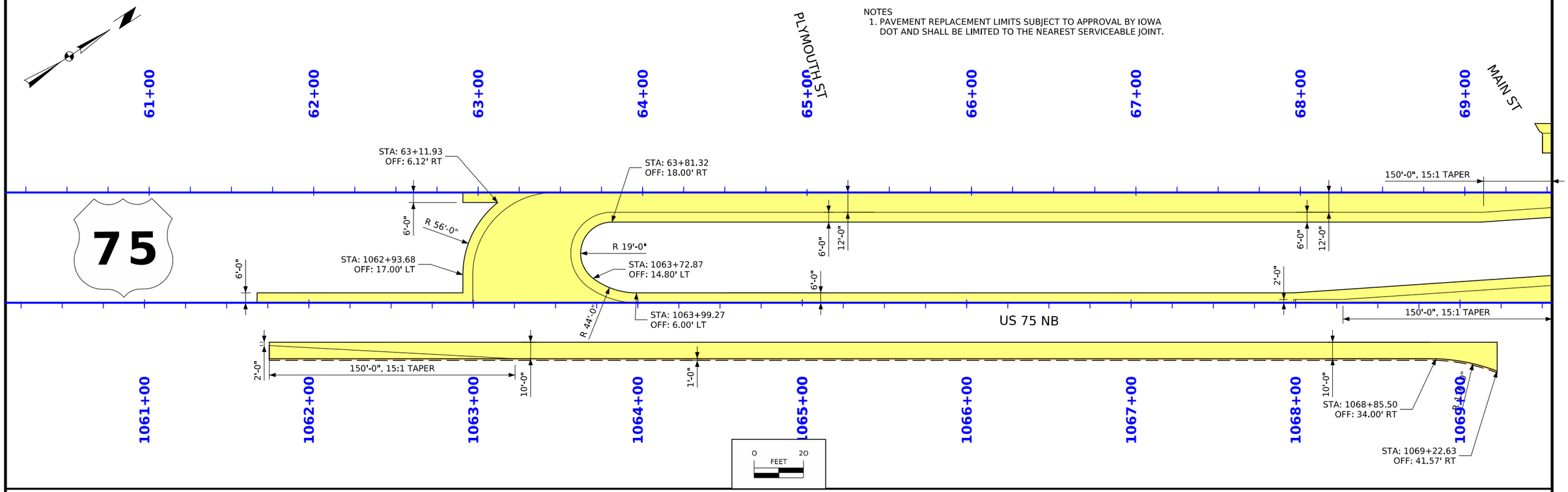


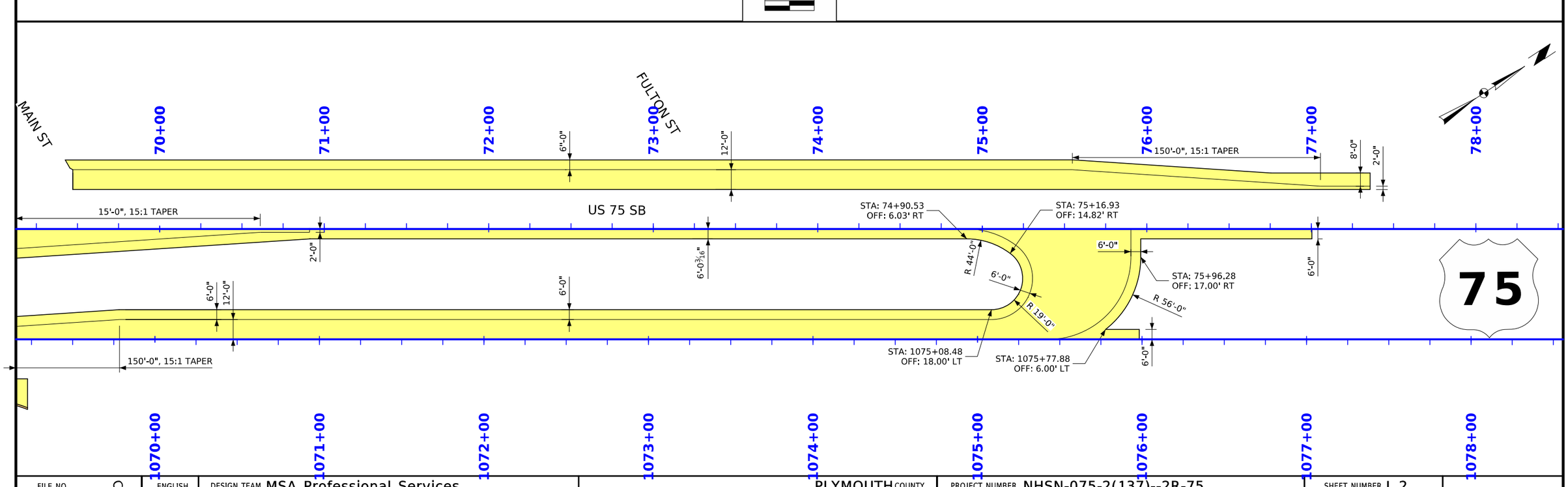


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER L.1

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NOTES
1. PAVEMENT REPLACEMENT LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.





FILE NO. C70	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER L.2

5:14:38 PM 8/31/2023 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_L01.dgn

NOTES
1. PAVEMENT REPLACEMENT LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

MATCH EXISTING PAVEMENT (TYP)

STA: 7+09.72
OFF: 12.12' RT
EL: 1124.06

STA: 7+09.90
OFF: 24.72' RT
EL: 1123.95

STA: 7+02.30
OFF: 10.62' RT
EL: 1124.09

STA: 6+98.31
OFF: 6.12' RT
EL: 1123.83

STA: 7+24.72
OFF: 12.12' RT
EL: 1124.04

STA: 7+24.90
OFF: 24.72' RT
EL: 1123.89

STA: 7+43.36
OFF: 26.67' RT
EL: 1123.78

STA: 7+54.48
OFF: 15.86' RT
EL: 1123.69

STA: 7+50.40
OFF: 26.95' RT
EL: 1123.55

STA: 7+69.01
OFF: 18.11' RT
EL: 1123.70

STA: 1007+26.98
OFF: 25.84' LT
EL: 1123.78

STA: 6+91.37
OFF: 22.37' RT
EL: 1124.01

STA: 1006+96.94
OFF: 25.83' LT
EL: 1123.87

STA: 1006+71.25
OFF: 25.83' LT
EL: 1123.90

STA: 1006+69.79
OFF: 12.83' LT
EL: 1123.84

STA: 1006+63.80
OFF: 13.83' LT
EL: 1122.77

STA: 1007+29.51
OFF: 14.01' LT
EL: 1123.82

STA: 1007+51.97
OFF: 6.00' LT
EL: 1123.77

STA: 1007+42.53
OFF: 1.85' LT
EL: 1123.94

STA: 1006+63.80
OFF: 6.10' LT
EL: 1122.73

STA: 1007+11.94
OFF: 25.84' LT
EL: 1123.83

STA: 1006+97.13
OFF: 12.84' LT
EL: 1123.83

STA: 1007+12.13
OFF: 12.84' LT
EL: 1123.84

PI 1006+69.80

PI 1011+07.68

4.0%

3.0%

75

US 75 NB

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00

1005+00 1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00

0 FEET 30

C80

HIGHLAND AVE

STA: 19+64.71
OFF: 25.96' RT
EL: 1121.31

STA: 1019+51.57
OFF: 24.92' LT
EL: 1121.23

STA: 19+94.68
OFF: 12.97' RT
EL: 1121.32

STA: 19+64.71
OFF: 12.96' RT
EL: 1121.39

STA: 19+35.75
OFF: 15.67' RT
EL: 1120.60

STA: 20+00.75
OFF: 6.00' RT
EL: 1120.26

STA: 19+29.91
OFF: 7.01' RT
EL: 1121.52

STA: 20+00.61
OFF: 13.94' RT
EL: 1120.26

STA: 19+12.69
OFF: 5.97' RT
EL: 1121.43

STA: 19+93.12
OFF: 25.97' RT
EL: 1121.26

STA: 19+37.54
OFF: 25.96' RT
EL: 1121.34

STA: 1019+74.16
OFF: 23.86' LT
EL: 1121.20

STA: 1019+14.99
OFF: 28.02' LT
EL: 1120.98

STA: 1019+68.15
OFF: 15.85' LT
EL: 1121.16

STA: 1019+62.17
OFF: 10.48' LT
EL: 1121.16

STA: 1018+95.49
OFF: 18.00' LT
EL: 1118.45

STA: 1019+66.13
OFF: 5.95' LT
EL: 1120.90

STA: 1019+06.55
OFF: 14.11' LT
EL: 1121.08

STA: 1019+19.91
OFF: 24.59' LT
EL: 1121.22

STA: 1019+51.56
OFF: 11.99' LT
EL: 1121.18

MATCH EXISTING PAVEMENT (TYP)

US 75 SB

PI 1014+26.15

PI 1019+26.68

3.0%

4.0%

75

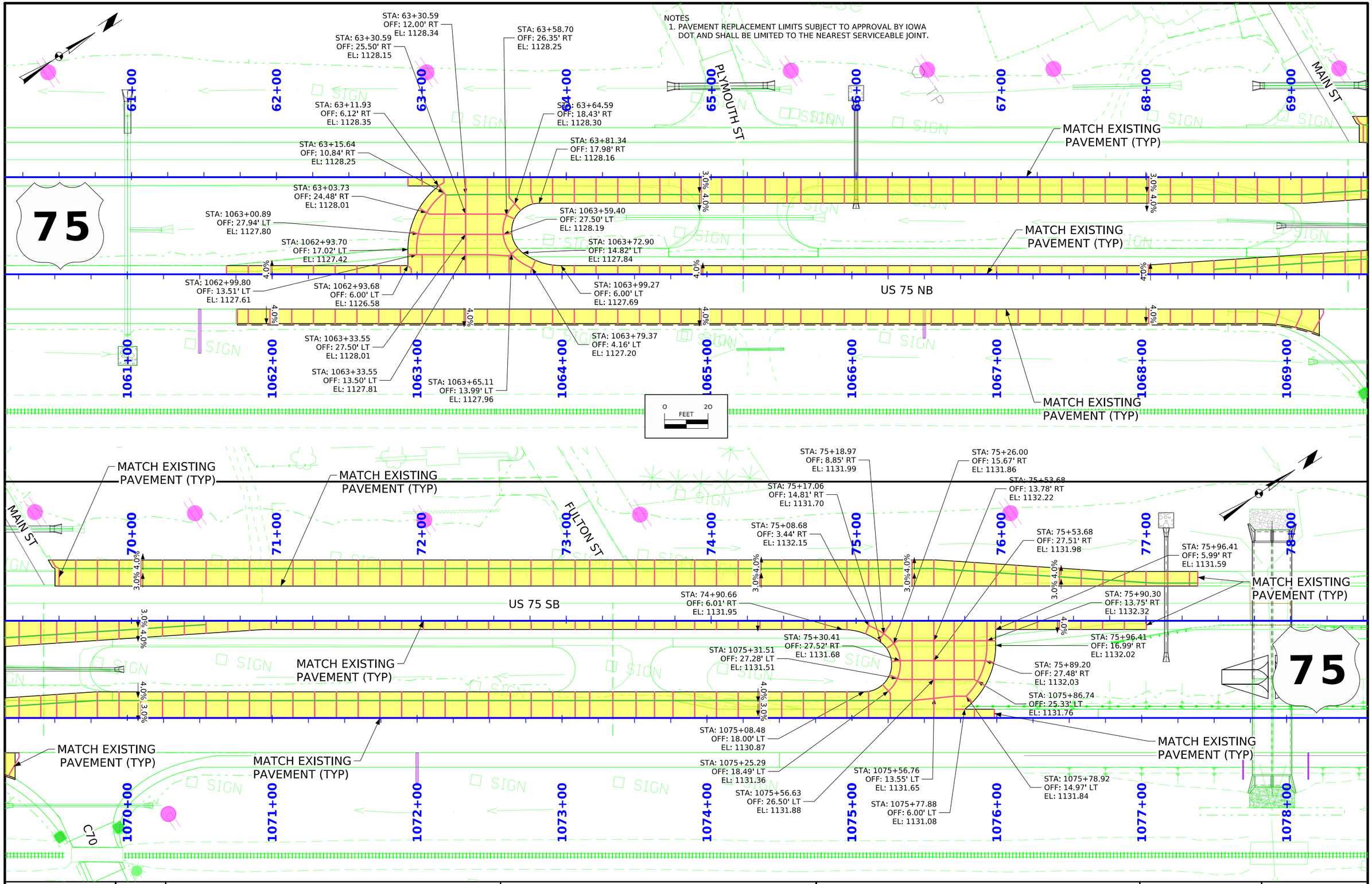
14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER L.3

5:14:59 PM 8/31/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_L02.dgn

NOTES
1. PAVEMENT REPLACEMENT LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.



FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER L.4

5:15:03 PM 8/31/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_L02.dgn

NOTES
1. PAVEMENT REPLACEMENT LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

C80

MATCH EXISTING JOINT PATTERN (TYP)

TYPICAL JOINT SPACING

TYPICAL JOINT SPACING

US 75 NB

MATCH EXISTING JOINT PATTERN (TYP)

TYPICAL JOINT SPACING

HIGHLAND AVE

0 20 FEET

TYPICAL JOINT SPACING

US 75 SB

MATCH EXISTING JOINT PATTERN (TYP)

TYPICAL JOINT SPACING

MATCH EXISTING JOINT PATTERN (TYP)

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER L.5

5:15:11 PM 8/31/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_L03.dgn

NOTES
1. PAVEMENT REPLACEMENT LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

PLYMOUTH ST

MAIN ST

61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00

MATCH EXISTING JOINT PATTERN (TYP)

TYPICAL JOINT SPACING

TYPICAL JOINT SPACING

TYPICAL JOINT SPACING

US 75 NB

MATCH EXISTING JOINT PATTERN (TYP)

1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00

MATCH EXISTING JOINT PATTERN (TYP)

MATCH EXISTING JOINT PATTERN (TYP)

0 20 FEET

TYPICAL JOINT SPACING

MATCH EXISTING JOINT PATTERN (TYP)

FULTON ST

70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00

US 75 SB

TYPICAL JOINT SPACING

MATCH EXISTING JOINT PATTERN (TYP)

TYPICAL JOINT SPACING

MATCH EXISTING JOINT PATTERN (TYP)

C70

1070+00 1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00

MSA Professional Services | PLYMOUTH | NHSN-075-2(137)--2R-75 | L.6

FILE NO.	ENGLISH	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER

5:15:12 PM 8/31/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_L03.dgn

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:
  1. Prepares Base PPP included in the project plan.
  2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
  3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.
- B. Contractor:
  1. 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.
  2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
  3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
  4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
  5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
  6. 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.
  7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
  8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.
- C. Subcontractors:
  1. 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.
  2. Implement good housekeeping practices according to Paragraph III, C, 2.
- D. RCE/Project Engineer:
  1. Is Project Storm Water Manager.
  2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
  3. 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.
  4. 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.
  5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
  6. 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.
  7. Is familiar with the Project PPP and storm water site map.
  8. 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.
  9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
  10. Is signature authority on Notice of Discontinuation.
  11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
  12. Makes information to determine permit compliance available to the DNR upon their request.
- E. Inspector:
  1. 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.
  2. Makes information to determine permit compliance available to the DNR upon their request.
  3. Conducts joint required inspections of the site with the contractor/subcontractor.
  4. Completes an inspection report after each inspection.
  5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION
- A. This Pollution Prevention Plan (PPP) is for the construction of a PCC Pavement - Grade and New Intersection project.
- B. This PPP covers approximately 5.59 acres with an estimated 5.59 acres being disturbed. The portion of the PPP covered by this contract has 5.59 acres disturbed.
- C. The PPP is located in an area of Monona - Ida - Napier soil association. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.49.

110_12
1/13/23

POLLUTION PREVENTION PLAN

- 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 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 Floyd 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
        1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
        2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
           a) Permanently ceased on any portion of the site, or
           b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
        3) 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.
        4) 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.
        5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
        6) 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
        1) 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.
        2) 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.
     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.

POLLUTION PREVENTION PLAN

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

James Watters
Printed or Typed Name

Signature

Shane Tymkowicz
Printed or Typed Name

PLAN VIEW CELL LEGEND

CELL	Design Element
	Clearing & Grubbing

CELL LEGEND OF EROSION CONTROL

CELL	Design Element
	Temporary Sediment Control basin
	Erosion Control for Circular Intake or Manhole Well
6 FT	Erosion Control for Rectangular Intake or Manhole Well
12 FT	Grate Intake Sediment Filter Bag
	Silt Basin
18 FT	Silt Fence Tail
	Stormwater Drainage Basin Discharge Point
30 FT	

CELL LEGEND OF LANDSCAPING

CELL	Design Element	Plant Diameter
Overstory-#	Overstory Tree	30 FT
Evergreen-#	Evergreen Tree	18 FT
Understory-#	Understory Tree	12 FT
Shrub-# Shrub-#	Shrub	6 FT

PLAN VIEW PATTERN LEGEND

PATTERN	Design Element	PATTERN	Design Element
	Seeding and Fertilizing		Turf Reinforcement Mat Type 1
R	Seeding and Fertilizing (Rural)		Turf Reinforcement Mat Type 2
U	Seeding and Fertilizing (Urban)		Turf Reinforcement Mat Type 3
N	Native Grass Seeding		Turf Reinforcement Mat Type 4
ST	Salt Tolerant Seeding		Slope Protection, Wood Excelsior Mat
WL	Wetland Grass Seeding	TM	Transition Mat
WF	Wildflower Seeding		Rock Features, Permanent
SOD	Sodding		Rock Features, Temporary

PLAN VIEW COLOR LEGEND

LINEWORK	Design	Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and 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%

HATCHING	Design	Color No.	
Red	(3)		Delineates Restricted Areas
Yellow	(4)		Brush Clearing
Yellow	(4)		Clearing & Grubbing
Orange	(228)		Spray Area

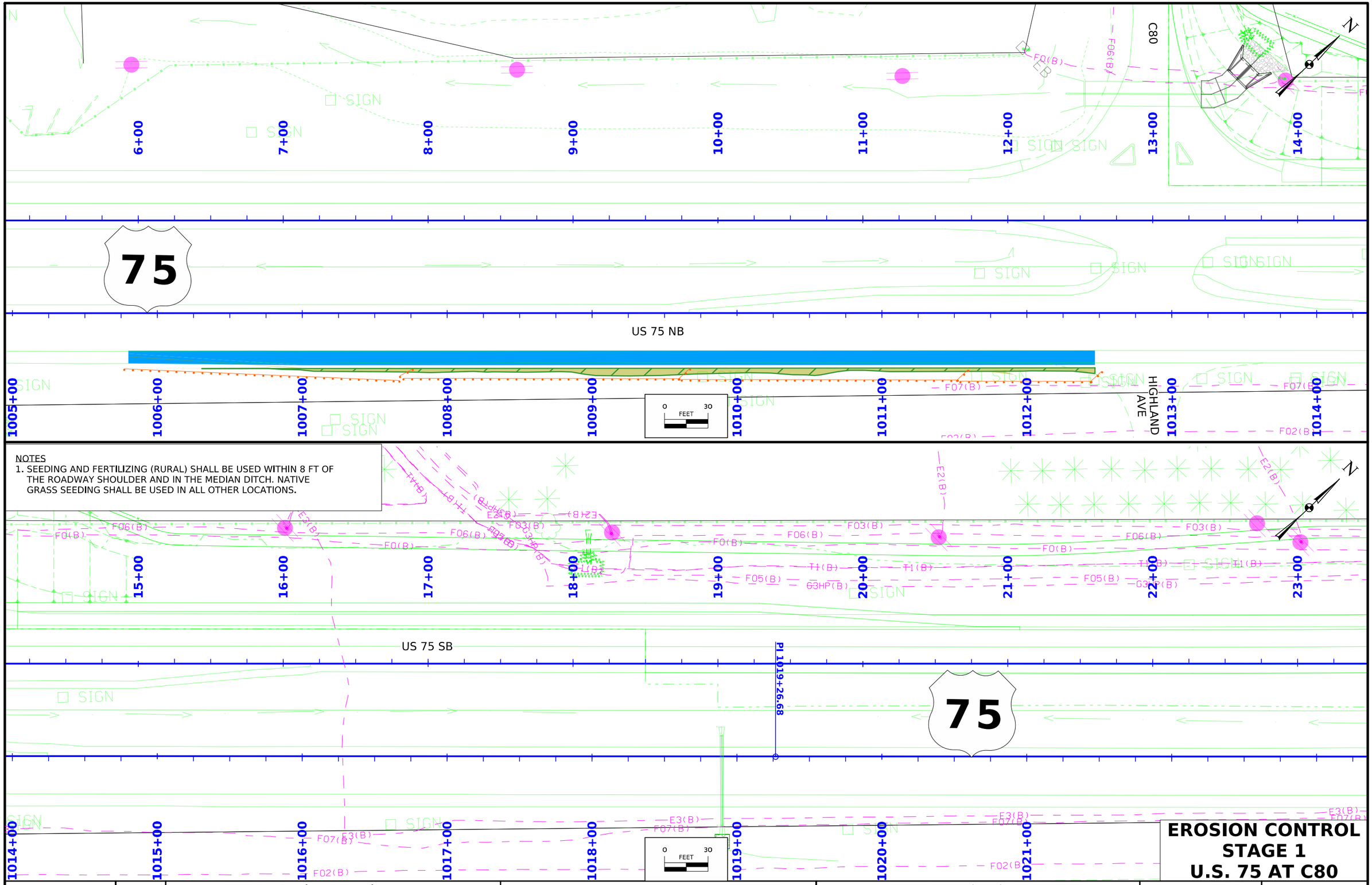
LINE STYLE LEGEND OF EROSION CONTROL SHEETS

LINESTYLE	Design Element
	Silt Fence
9	Perimeter and Slope Sediment Control Device (9")
12	Perimeter and Slope Sediment Control Device (12")
20	Perimeter and Slope Sediment Control Device (20")
	Open-Throat Curb Intake Sediment Filter
	Concentrated Flow
	Rock Check and Rock Check Dam
	Sheet Flow

LINE STYLE LEGEND OF LANDSCAPE SHEETS

LINESTYLE	Design Element
	Living Snow Fence Single Row
	Living Snow Fence Double Row
	Mechanical Edge

LEGEND AND SYMBOL INFORMATION SHEET



NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.

EROSION CONTROL STAGE 1 U.S. 75 AT C80

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.2

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PLYMOUTH ST

MAIN ST

62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70+00

75

US 75 NB

1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00

C70

0 30 FEET

NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.

FULTON ST

71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00

US 75 SB

75

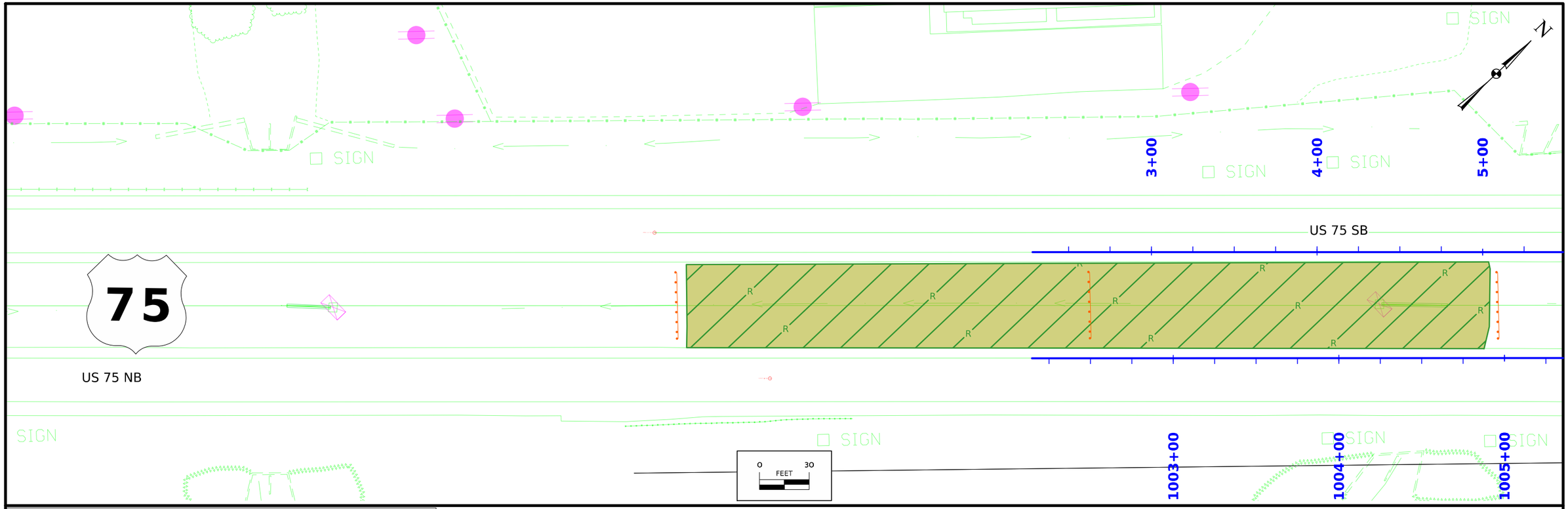
1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00

0 30 FEET

EROSION CONTROL STAGE 1 U.S. 75 AT C70

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.3

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NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.

EROSION CONTROL
STAGE 2
U.S. 75 AT C80

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.4

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NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.

US 75 NB

US 75 SB

C80

HIGHLAND AVE

EROSION CONTROL STAGE 2 U.S. 75 AT C80

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.5

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PLYMOUTH ST

MAIN ST

62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70+00

1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00

75

US 75 NB

C70

0 30
FEET

NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.

FULTON ST

71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00

1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00

US 75 SB

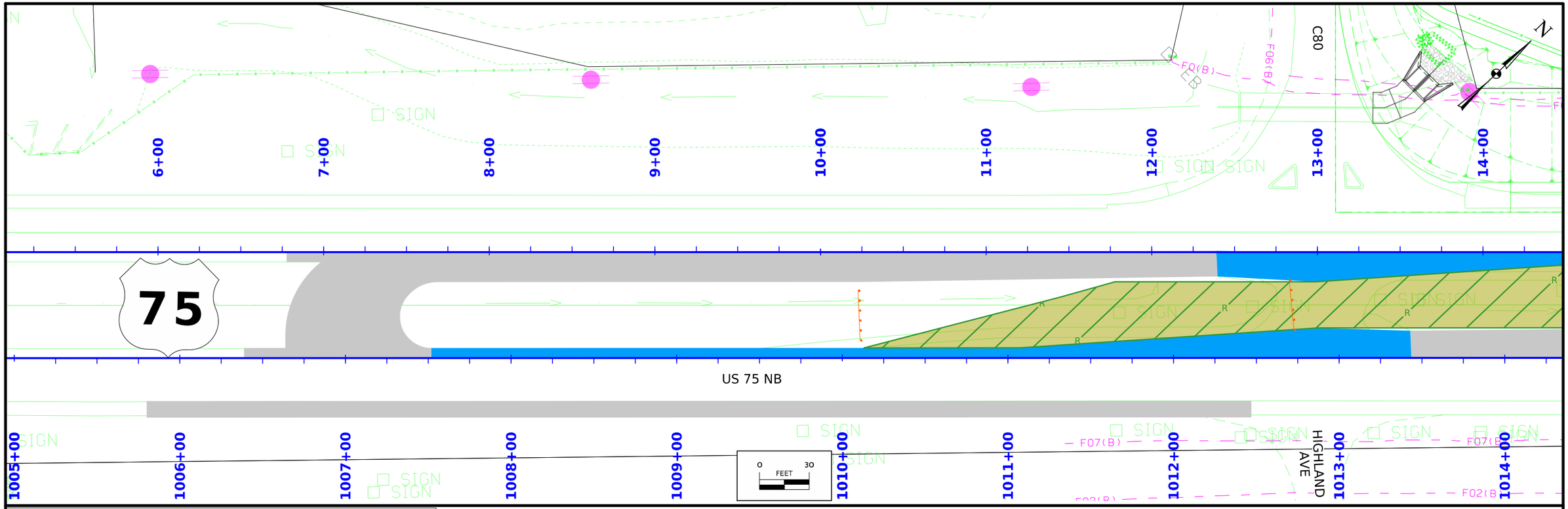
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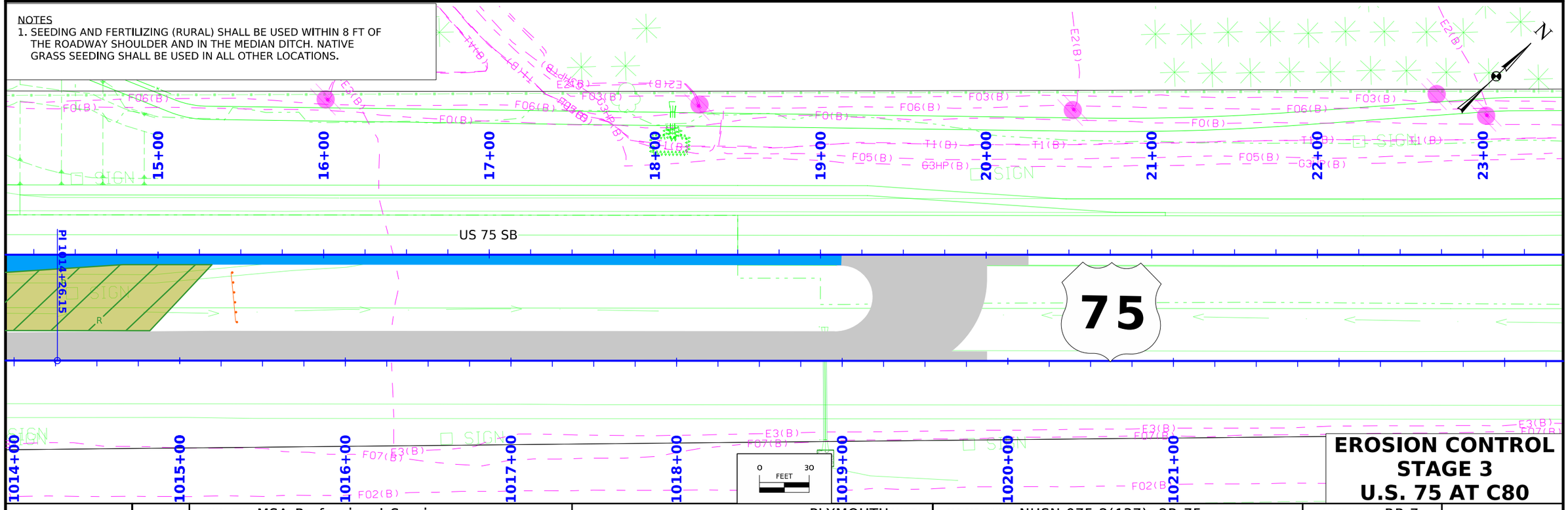
EROSION CONTROL
STAGE 2
U.S. 75 AT C70

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.6

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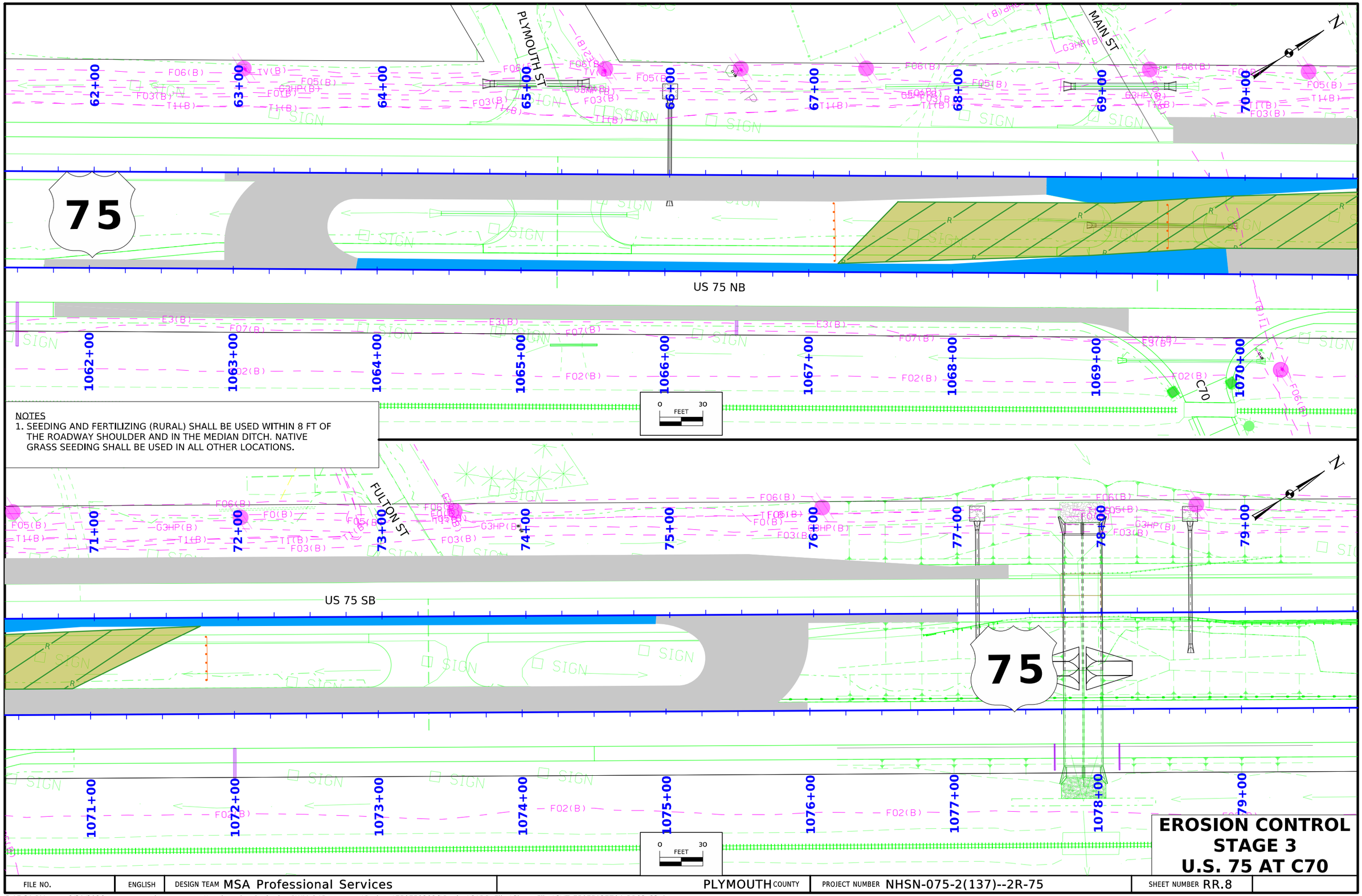
NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.



EROSION CONTROL STAGE 3 U.S. 75 AT C80

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.7

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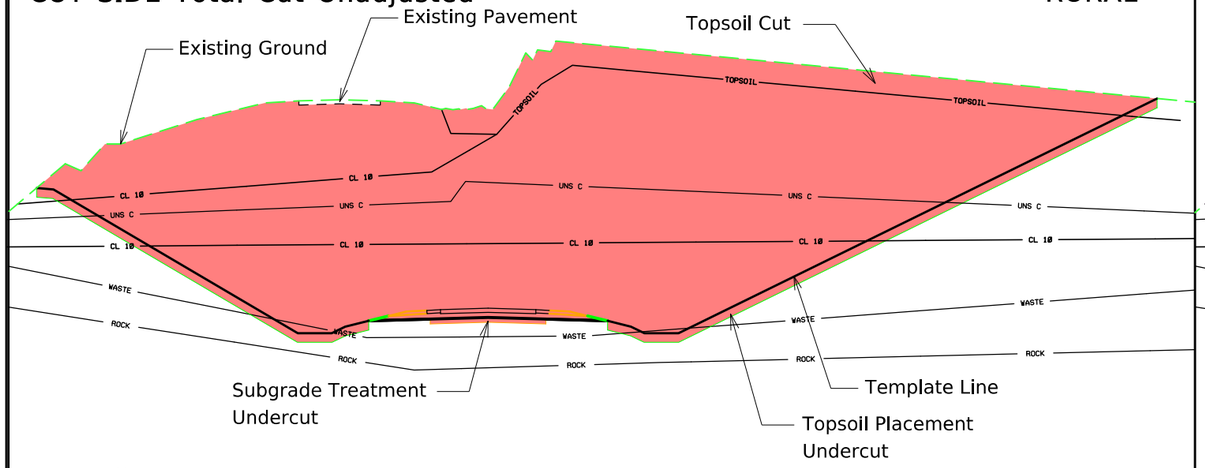
NOTES
1. SEEDING AND FERTILIZING (RURAL) SHALL BE USED WITHIN 8 FT OF THE ROADWAY SHOULDER AND IN THE MEDIAN DITCH. NATIVE GRASS SEEDING SHALL BE USED IN ALL OTHER LOCATIONS.

EROSION CONTROL STAGE 3 U.S. 75 AT C70

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER RR.8

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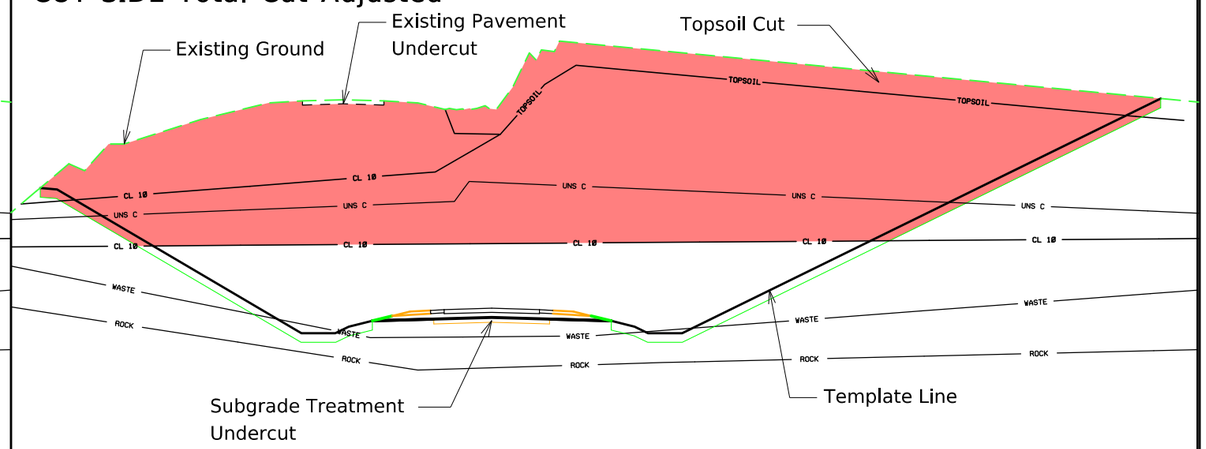
CUT SIDE Total Cut Unadjusted — RURAL



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

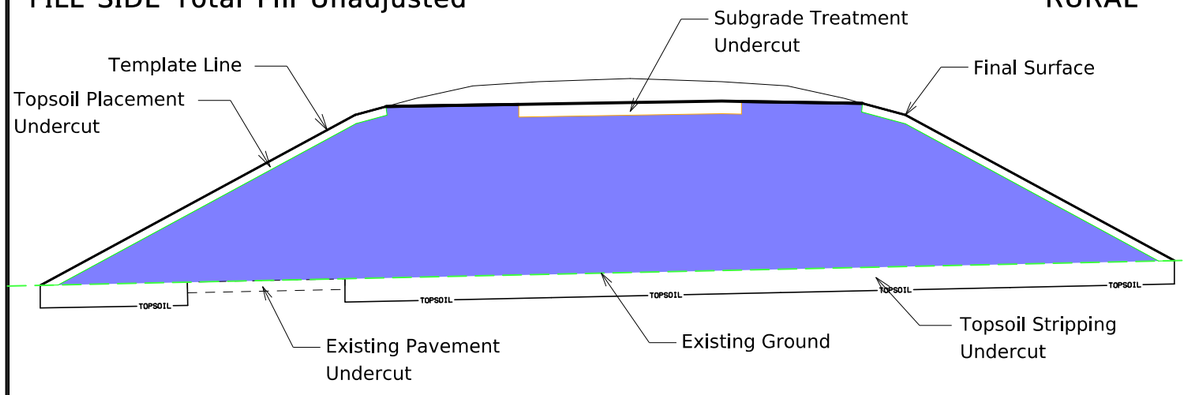
CUT SIDE Total Cut Adjusted



Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

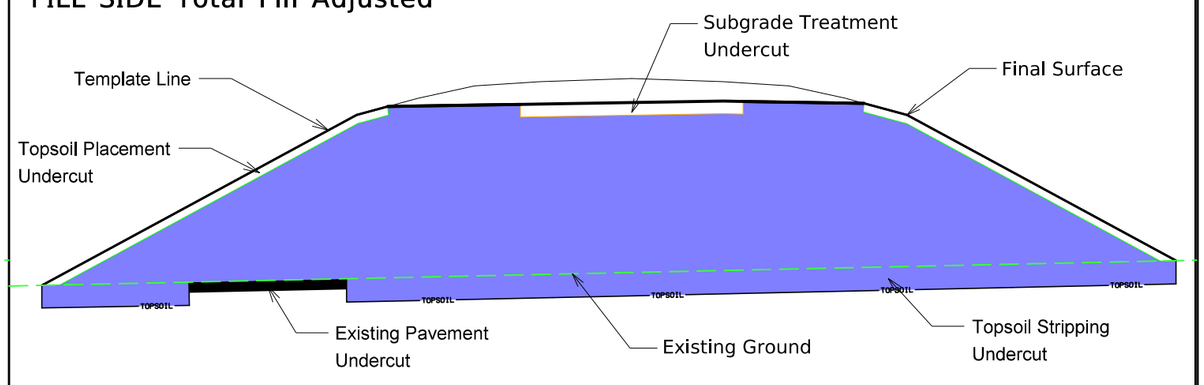
FILL SIDE Total Fill Unadjusted — RURAL



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

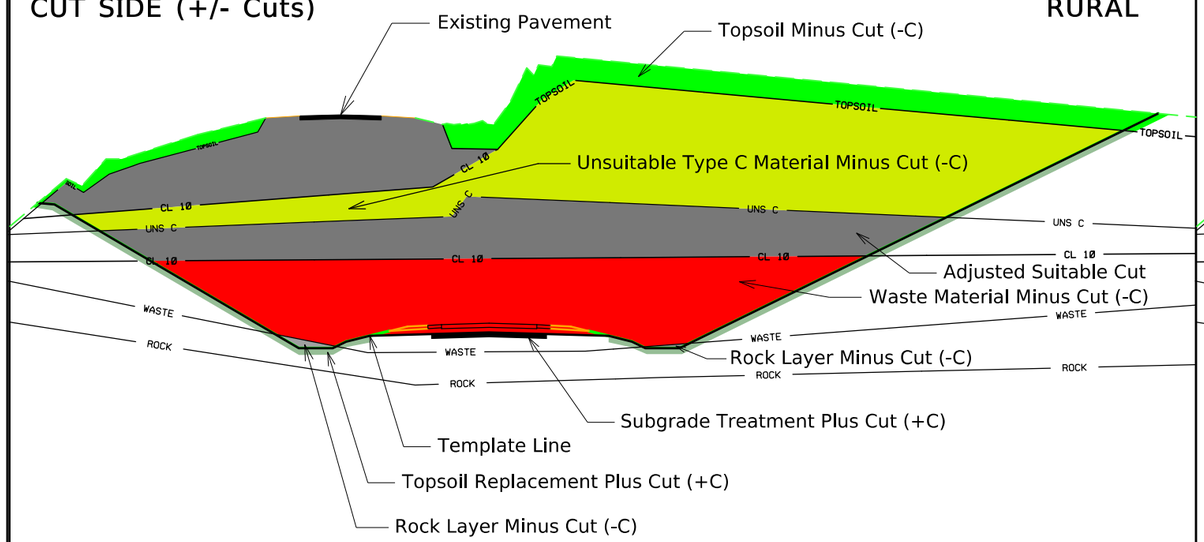
FILL SIDE Total Fill Adjusted



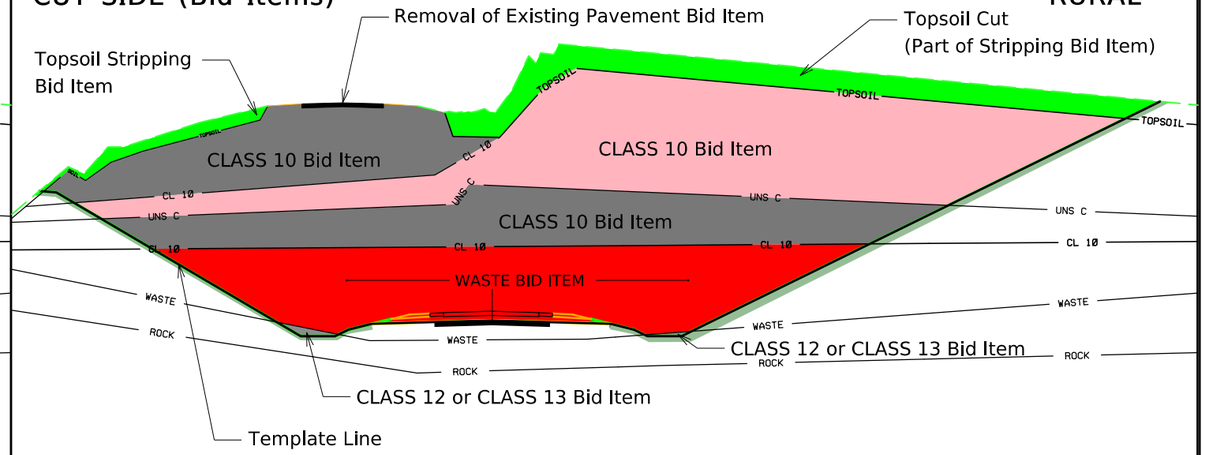
Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

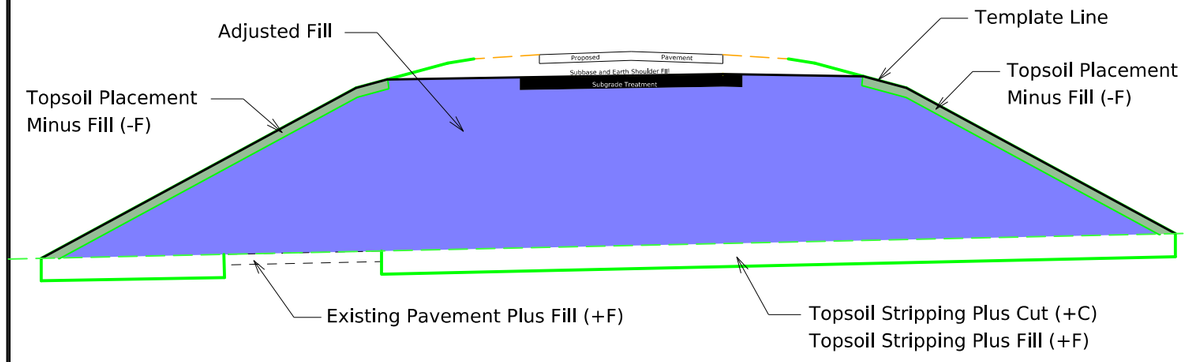
CUT SIDE (+/- Cuts) — RURAL



CUT SIDE (Bid Items) — RURAL



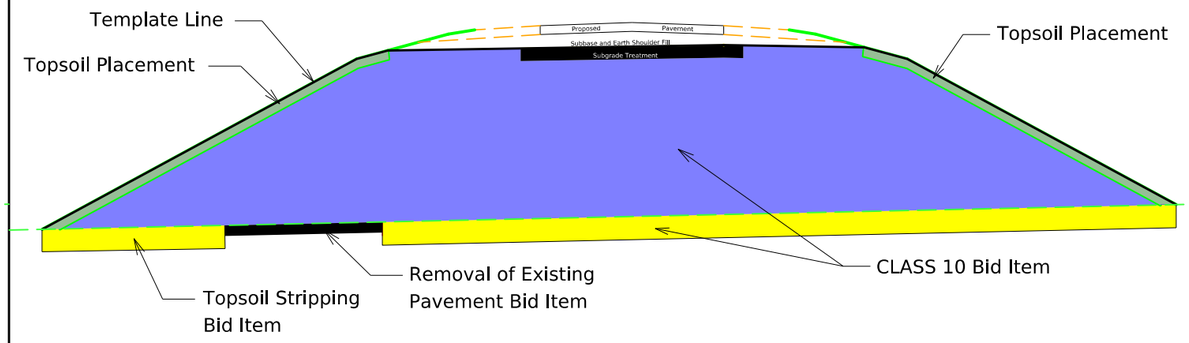
FILL SIDE (+/- Fills) — RURAL



Notes:

1. "Add Quantity +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12, or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.
5. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILL SIDE (Bid Items) — RURAL



Notes:

1. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.2

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C70_SB_Stage_1																						
1061+75.90	10	0	1	9	0	0	0	0	0	0	0	1	0	0	1							
1062+00.00	20	0	2	19	0	0	0	0	0	0	0	2	0	0	2							
1062+50.00	20	0	2	19	0	0	0	0	0	0	0	2	0	0	2							
1063+00.00	21	0	2	19	0	0	0	0	0	0	0	2	0	0	2							
1063+50.00	21	0	2	19	0	0	0	0	0	0	0	2	0	0	2							
1064+00.00	21	0	2	19	0	0	0	0	0	0	0	2	0	0	2							
1064+50.00	21	0	2	19	0	0	0	0	0	0	0	2	0	0	2							
1065+00.00	21	0	3	19	0	0	0	0	0	0	0	3	0	0	3							
1065+50.00	22	0	3	19	0	0	0	0	0	0	0	3	0	0	3							
1066+00.00	23	0	5	19	0	0	0	0	0	0	0	5	0	0	5							
1066+50.00	25	0	6	19	0	0	0	0	0	0	0	6	0	0	6							
1067+00.00	23	0	5	19	0	0	0	0	0	0	0	5	0	0	5							
1067+50.00	22	0	3	19	0	0	0	0	0	0	0	3	0	0	3							
1068+00.00	22	0	3	19	0	0	0	0	0	0	0	3	0	0	3							
1068+50.00	24	0	2	22	0	0	0	0	0	0	0	2	0	0	2							
1069+00.00	14	0	0	14	0	0	0	0	0	0	0	0	0	0	0							
1069+22.63																						
ML075_C70_SB_Stage_1																						
Totals:	329	0	44	286	0	0	0	0	0	0	0	44	0	0	44							

#

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.3

9/30/2024 11:05:58 AM mbenne2 c:\pw_work\pwmain\mbenne2\d2053917\Working_D8_(456)_T01.xlsm

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C70_NB_Stage_1																						
69+44.87	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1							
69+50.00	31	0	19	12	0	0	0	0	0	0	0	19	0	0	19							
70+00.00	39	0	23	16	0	0	0	0	0	0	0	23	0	0	23							
70+50.00	39	0	23	16	0	0	0	0	0	0	0	23	0	0	23							
71+00.00	38	0	22	16	0	0	0	0	0	0	0	22	0	0	23							
71+50.00	38	0	22	16	0	0	0	0	0	0	0	22	0	0	22							
72+00.00	37	0	21	16	0	0	0	0	0	0	0	21	0	0	21							
72+50.00	53	0	14	39	0	0	0	0	0	0	0	14	0	0	15							
73+00.00	54	0	14	40	0	0	0	0	0	0	0	14	0	0	14							
73+50.00	38	0	21	17	0	0	0	0	0	0	0	21	0	0	21							
74+00.00	40	0	24	15	0	0	0	0	0	0	0	24	0	0	24							
74+50.00	41	0	26	15	0	0	0	0	0	0	0	26	0	0	26							
75+00.00	42	0	27	16	0	0	0	0	0	0	0	27	0	0	27							
75+50.00	40	0	24	16	0	0	0	0	0	0	0	24	0	0	24							
76+00.00	29	0	14	15	0	0	0	0	0	0	0	14	0	0	14							
76+50.00	19	0	4	15	0	0	0	0	0	0	0	4	0	0	4							
77+00.00	6	0	1	5	0	0	0	0	0	0	0	1	0	0	1							
77+35.69																						
ML075_C70_NB_Stage_1																						
Totals:	588	0	301	287	0	0	0	0	0	0	0	301	0	0	302							

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.4

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C80_NB_Stage_1																						
1005+80.02	8	0	1	6	0	0	0	0	0	0	0	1	0	0	1							
1006+00.00	19	0	3	16	0	0	0	0	0	0	0	3	0	0	3							
1006+50.00	20	0	4	16	0	0	0	0	0	0	0	4	0	0	4							
1007+00.00	21	0	5	16	0	0	0	0	0	0	0	5	0	0	5							
1007+50.00	21	0	6	16	0	0	0	0	0	0	0	6	0	0	6							
1008+00.00	22	0	6	16	0	0	0	0	0	0	0	6	0	0	6							
1008+50.00	23	0	7	16	0	0	0	0	0	0	0	7	0	0	7							
1009+00.00	23	0	8	15	0	0	0	0	0	0	0	8	0	0	8							
1009+50.00	23	0	7	15	0	0	0	0	0	0	0	7	0	0	7							
1010+00.00	23	0	7	16	0	0	0	0	0	0	0	7	0	0	7							
1010+50.00	22	0	7	15	0	0	0	0	0	0	0	7	0	0	7							
1011+00.00	21	0	6	15	0	0	0	0	0	0	0	6	0	0	6							
1011+50.00	21	0	5	16	0	0	0	0	0	0	0	5	0	0	6							
1012+00.00	20	0	5	15	0	0	0	0	0	0	0	5	0	0	5							
1012+47.00																						
ML075_C80_NB_Stage_1 Totals:	287	0	77	210	0	0	0	0	0	0	0	77	0	0	78							

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.5

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C70_SB_Stage_2																						
1061+68.67	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0							
1062+00.00	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0							
1062+50.00	48	1	20	27	1	65	65	85	-84	0	0	20	0	0	20							
1063+00.00	83	5	40	38	5	136	136	177	-172	0	0	40	0	0	40							
1063+50.00	115	35	40	41	35	94	94	123	-88	0	0	40	0	0	40							
1064+00.00	146	63	40	44	63	46	46	60	3	0	0	40	0	0	40							
1064+50.00	128	47	20	61	47	57	57	75	-28	0	0	20	0	0	20							
1065+00.00	107	31	0	76	31	73	73	94	-63	0	0	0	0	0	0							
1065+50.00	129	50	20	59	50	63	63	81	-31	0	0	20	0	0	20							
1066+00.00	153	69	40	44	69	51	51	66	3	0	0	40	0	0	40							
1066+50.00	154	70	40	44	70	50	50	65	5	0	0	40	0	0	40							
1067+00.00	63	29	16	18	29	20	20	27	2	0	0	16	0	0	16							
1067+20.41																						
ML075_C70_SB_Stage_2																						
Totals:	1,146	400	276	471	400	656	656	853	-454	0	0	276	0	0	276							

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.6

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill				Checks (EW-102)		Topsoil									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C70_NB_Stage_2																						
1071+76.54	63	18	13	31	18	1	1	2	17	0	0	13	0	0	14							
1072+00.00	175	80	29	66	80	3	3	4	76	0	0	29	0	0	29							
1072+50.00	172	77	27	67	77	17	17	22	55	0	0	27	0	0	28							
1073+00.00	166	71	13	82	71	33	33	42	29	0	0	13	0	0	13							
1073+50.00	167	76	16	75	76	31	31	40	36	0	0	16	0	0	17							
1074+00.00	171	86	36	49	86	36	36	46	40	0	0	36	0	0	37							
1074+50.00	156	73	40	43	73	45	45	58	15	0	0	40	0	0	40							
1075+00.00	120	37	41	42	37	87	87	114	-76	0	0	41	0	0	41							
1075+50.00	102	20	42	40	20	137	137	178	-157	0	0	42	0	0	42							
1076+00.00	58	12	21	25	12	72	72	94	-82	0	0	21	0	0	21							
1076+50.00	12	0	0	12	0	0	0	0	0	0	0	0	0	0	0							
1077+00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
1077+03.25																						
ML075_C70_NB_Stage_2																						
Totals:	1,363	551	280	533	551	461	461	599	-49	0	0	280	0	0	280							

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.7

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C80_SB_Stage_2																						
1006+38.82	6	0	4	2	0	2	2	2	-2	0	0	4	0	0	4							
1006+50.00	68	11	41	16	11	25	25	32	-22	0	0	41	0	0	41							
1007+00.00	95	25	48	21	25	34	34	44	-20	0	0	48	0	0	49							
1007+50.00	110	40	48	22	40	23	23	30	10	0	0	48	0	0	48							
1008+00.00	125	55	48	22	55	16	16	20	34	0	0	48	0	0	48							
1008+50.00	128	58	48	22	58	21	21	27	31	0	0	48	0	0	48							
1009+00.00	130	60	48	22	60	21	21	27	33	0	0	48	0	0	48							
1009+50.00	135	63	46	26	63	15	15	20	44	0	0	46	0	0	46							
1010+00.00	39	19	11	8	19	2	2	3	17	0	0	11	0	0	11							
1010+13.09																						
ML075_C80_SB_Stage_2 Totals:	836	331	344	161	331	158	158	206	126	0	0	344	0	0	345							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C80_NB_Stage_2																						
1015+19.44	66	20	25	21	20	9	9	11	8	0	0	25	0	0	25							
1015+50.00	121	48	44	29	48	25	25	33	15	0	0	44	0	0	44							
1016+00.00	110	38	47	25	38	22	22	28	10	0	0	47	0	0	47							
1016+50.00	109	39	47	23	39	14	14	19	20	0	0	47	0	0	48							
1017+00.00	123	52	47	23	52	9	9	12	40	0	0	47	0	0	48							
1017+50.00	134	63	48	23	63	11	11	14	49	0	0	48	0	0	48							
1018+00.00	140	69	48	23	69	13	13	17	53	0	0	48	0	0	48							
1018+50.00	116	45	47	24	45	11	11	14	31	0	0	47	0	0	47							
1019+00.00	86	15	47	24	15	34	34	45	-30	0	0	47	0	0	47							
1019+50.00	100	37	45	18	37	32	32	42	-5	0	0	45	0	0	45							
1020+00.00	28	19	7	2	19	1	1	1	18	0	0	7	0	0	8							
1020+17.23																						
ML075_C80_NB_Stage_2 Totals:	1,134	445	454	236	445	181	181	235	211	0	0	454	0	0	454							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C70_Stage_3A																						
1067+20.41																						
1067+50.00	101	52	24	26	52	19	19	25	26	0	0	24	0	0	24							
1068+00.00	155	72	40	44	72	49	49	64	8	0	0	40	0	0	40							
1068+50.00	147	62	38	46	62	48	48	62	0	0	0	38	0	0	38							
1069+00.00	130	39	32	59	39	29	29	38	2	0	0	32	0	0	32							
1069+50.00	113	22	13	78	22	29	29	38	-16	0	0	13	0	0	14							
1070+00.00	123	32	14	77	32	26	26	34	-2	0	0	14	0	0	14							
1070+50.00	148	53	29	66	53	5	5	7	46	0	0	29	0	0	29							
1071+00.00	162	67	29	66	67	5	5	6	61	0	0	29	0	0	29							
1071+50.00	171	76	29	66	76	4	4	5	71	0	0	29	0	0	29							
1071+76.54	102	51	15	35	51	2	2	2	49	0	0	15	0	0	15							
ML075_C70_Stage_3A																						
Totals:	1,352	526	263	563	526	217	217	282	245	0	0	263	0	0	264							

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
ML075_C80_Stage_3A																						
1010+13.09	99	42	30	26	42	5	5	7	35	0	0	30	0	0	30							
1010+50.00	156	77	38	41	77	15	15	20	57	0	0	38	0	0	38							
1011+00.00	157	75	37	45	75	15	15	20	56	0	0	37	0	0	37							
1011+50.00	148	64	34	50	64	22	22	28	36	0	0	34	0	0	34							
1012+00.00	168	76	26	66	76	14	14	19	57	0	0	26	0	0	26							
1012+50.00	193	85	10	98	85	1	1	1	84	0	0	10	0	0	10							
1013+00.00	186	83	15	88	83	1	1	2	82	0	0	15	0	0	15							
1013+50.00	163	77	32	54	77	7	7	10	68	0	0	32	0	0	32							
1014+00.00	143	62	36	46	62	22	22	28	33	0	0	36	0	0	36							
1014+50.00	140	60	38	42	60	29	29	38	23	0	0	38	0	0	38							
1015+00.00	61	30	15	15	30	7	7	9	21	0	0	15	0	0	15							
1015+19.44																						
ML075_C80_Stage_3A Totals:	1,614	733	310	572	733	139	139	181	553	0	0	310	0	0	311							

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER T.11

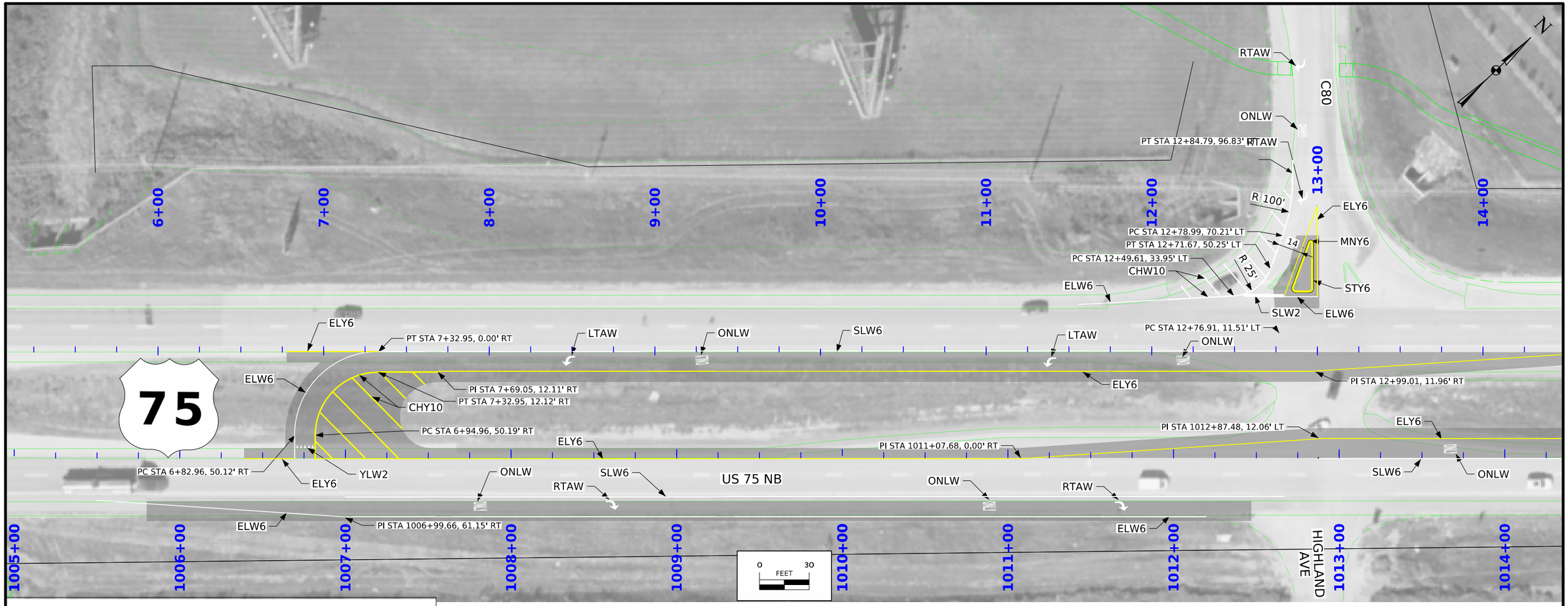
Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut					Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink							
Summary:																						
ML075_C70_SB_Stage_1	329	0	44	286	0	0	0	0	0	0	0	44	0	0	44							
ML075_C70_NB_Stage_1	588	0	301	287	0	0	0	0	0	0	0	301	0	0	302							
ML075_C80_NB_Stage_1	287	0	77	210	0	0	0	0	0	0	0	77	0	0	78							
ML075_C70_SB_Stage_2	1,146	400	276	471	400	656	656	853	-454	0	0	276	0	0	276							
ML075_C70_NB_Stage_2	1,363	551	280	533	551	461	461	599	-49	0	0	280	0	0	280							
ML075_C80_SB_Stage_2	836	331	344	161	331	158	158	206	126	0	0	344	0	0	345							
ML075_C80_NB_Stage_2	1,134	445	454	236	445	181	181	235	211	0	0	454	0	0	454							
ML075_C70_Stage_3A	1,352	526	263	563	526	217	217	282	245	0	0	263	0	0	264							
ML075_C80_Stage_3A	1,614	733	310	572	733	139	139	181	553	0	0	310	0	0	311							
Project Totals:	8,649	2,986	2,349	3,319	2,986	1,812	1,812	2,356	632	0	0	2,349	0	0	2,354							

Bid Items		Columns	Amount
Excavation, Class 10, Roadway and Borrow:		[5] or [8]	
	Stage 1 - C70 (SB)	[5]	0
	Stage 1 - C70 (NB)	[5]	0
	Stage 1 - C80 (NB)	[5]	0
	Stage 2 - C70 (NB)	[5]	400
	Stage 2 - C70 (SB)	[5]	551
	Stage 2 - C80 (NB)	[8]	206
	Stage 2 - C80 (SB)	[8]	235
	Stage 3A - C70	[8]	282
	Stage 3A - C80	[8]	181
		TOTAL	1,855
Excavation, Class 10, Waste:		[9]	
	Stage 1 - C70 (SB)	[9]	0
	Stage 1 - C70 (NB)	[9]	0
	Stage 1 - C80 (NB)	[9]	0
	Stage 2 - C70 (NB)	[9]	0
	Stage 2 - C70 (SB)	[9]	0
	Stage 2 - C80 (NB)	[9]	126
	Stage 2 - C80 (SB)	[9]	211
	Stage 3A - C70	[9]	245
	Stage 3A - C80	[9]	553
		TOTAL	1,135
Embankment-In-Place		[9]/1.3	
	Stage 1 - C70 (SB)	[9]/1.3	0
	Stage 1 - C70 (NB)	[9]/1.3	0
	Stage 1 - C80 (NB)	[9]/1.3	0
	Stage 2 - C70 (NB)	[9]/1.3	349
	Stage 2 - C70 (SB)	[9]/1.3	38
	Stage 2 - C80 (NB)	[9]/1.3	0
	Stage 2 - C80 (SB)	[9]/1.3	0
	Stage 3A - C70	[9]/1.3	0
	Stage 3A - C80	[9]/1.3	0
		TOTAL	387
Topsoil, Strip, Salvage, and Spread:		[12]	
	Stage 1 - C70 (SB)	[12]	44
	Stage 1 - C70 (NB)	[12]	301
	Stage 1 - C80 (NB)	[12]	77
	Stage 2 - C70 (NB)	[12]	276
	Stage 2 - C70 (SB)	[12]	280
	Stage 2 - C80 (NB)	[12]	344
	Stage 2 - C80 (SB)	[12]	454
	Stage 3A - C70	[12]	263
	Stage 3A - C80	[12]	310
		TOTAL	2,349



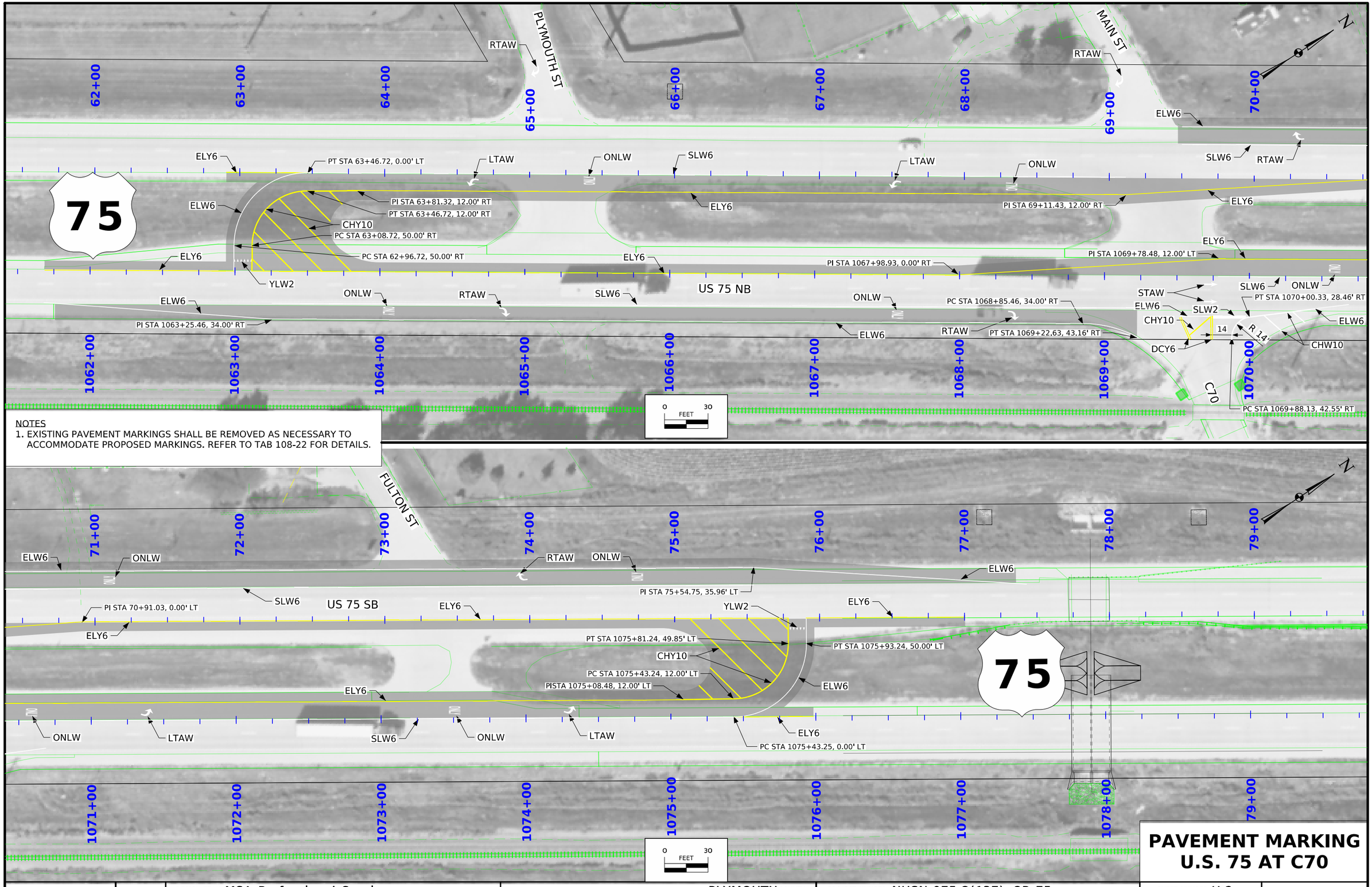
NOTES
1. EXISTING PAVEMENT MARKINGS SHALL BE REMOVED AS NECESSARY TO ACCOMMODATE PROPOSED MARKINGS. REFER TO TAB 108-22 FOR DETAILS.

PAVEMENT MARKING U.S. 75 AT C80

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER U.1	

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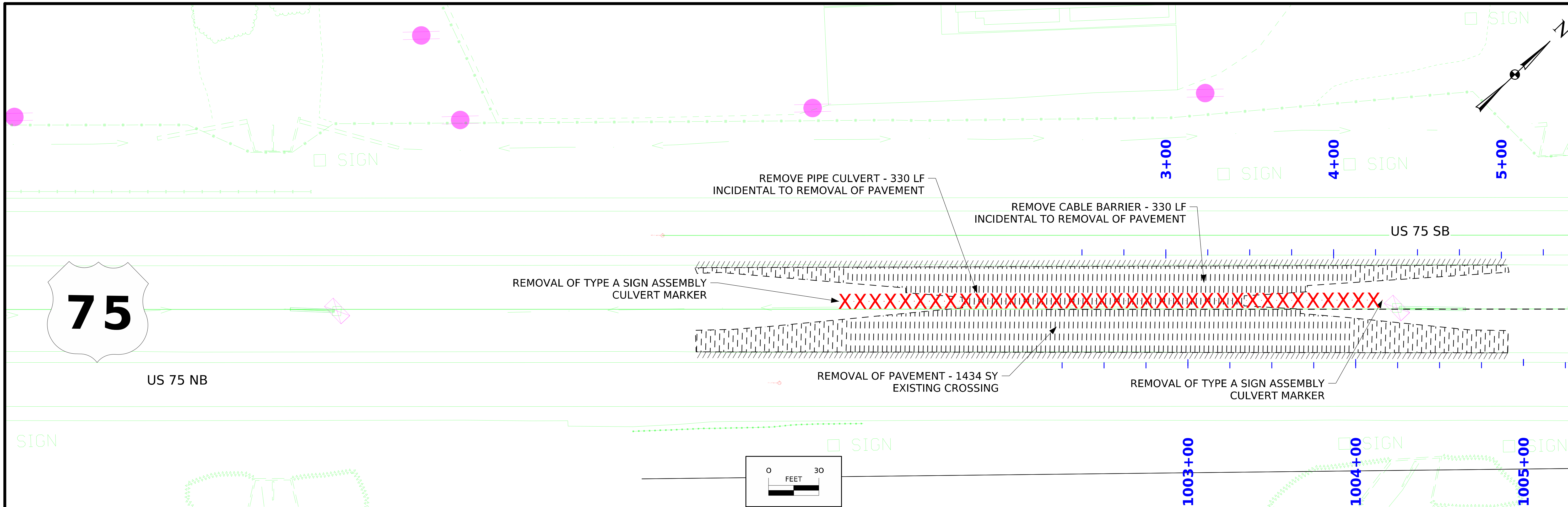


PAVEMENT MARKING U.S. 75 AT C70

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER U.2

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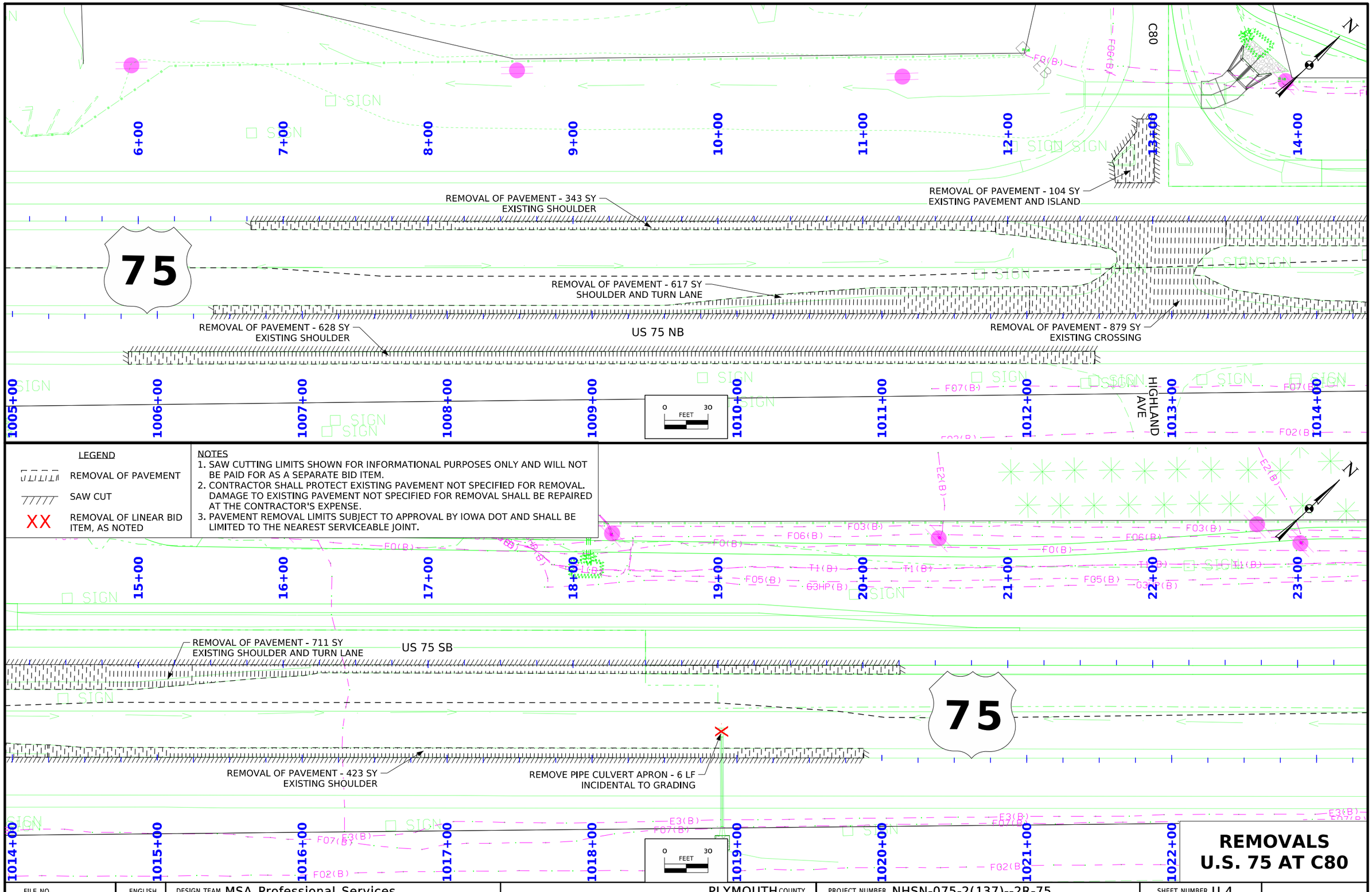
REMOVALS LEGEND

- REMOVAL OF PAVEMENT
- SAW CUT
- XX REMOVAL OF LINEAR BID ITEM, AS NOTED

NOTES

1. SAW CUTTING LIMITS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND WILL NOT BE PAID FOR AS A SEPARATE BID ITEM.
2. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT NOT SPECIFIED FOR REMOVAL. DAMAGE TO EXISTING PAVEMENT NOT SPECIFIED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. PAVEMENT REMOVAL LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

REMOVALS
U.S. 75 AT C80



LEGEND

- REMOVAL OF PAVEMENT
- SAW CUT
- XX REMOVAL OF LINEAR BID ITEM, AS NOTED

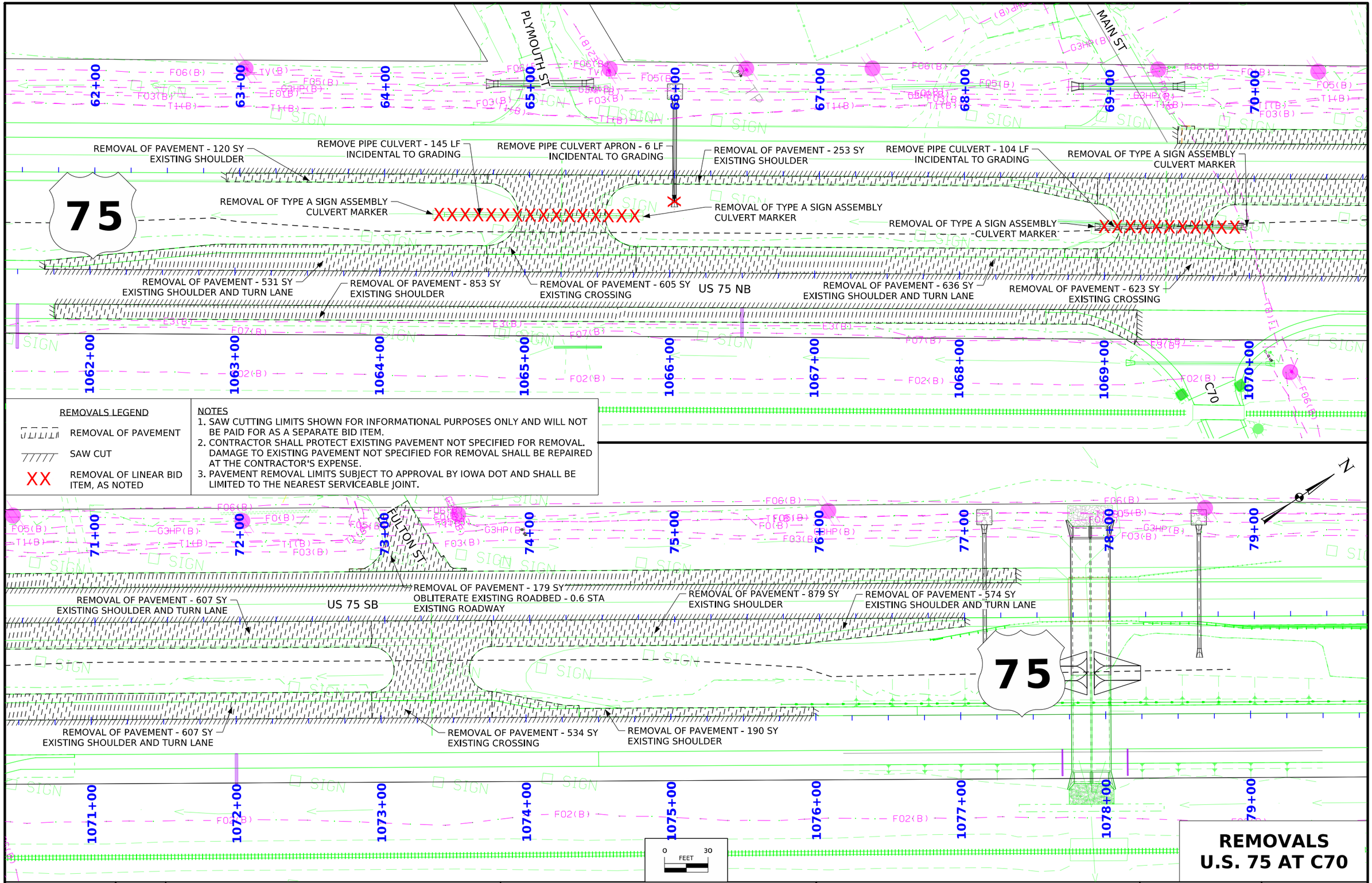
NOTES

1. SAW CUTTING LIMITS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND WILL NOT BE PAID FOR AS A SEPARATE BID ITEM.
2. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT NOT SPECIFIED FOR REMOVAL. DAMAGE TO EXISTING PAVEMENT NOT SPECIFIED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. PAVEMENT REMOVAL LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

REMOVALS U.S. 75 AT C80

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER U.4

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REMOVALS LEGEND

- REMOVAL OF PAVEMENT
- SAW CUT
- XX — REMOVAL OF LINEAR BID ITEM, AS NOTED

NOTES

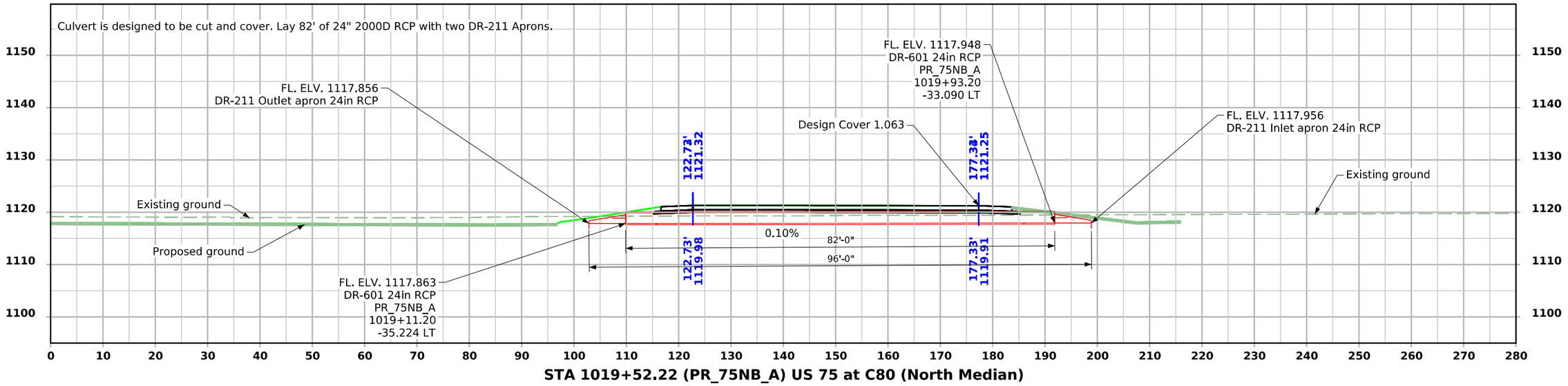
1. SAW CUTTING LIMITS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND WILL NOT BE PAID FOR AS A SEPARATE BID ITEM.
2. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT NOT SPECIFIED FOR REMOVAL. DAMAGE TO EXISTING PAVEMENT NOT SPECIFIED FOR REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. PAVEMENT REMOVAL LIMITS SUBJECT TO APPROVAL BY IOWA DOT AND SHALL BE LIMITED TO THE NEAREST SERVICEABLE JOINT.

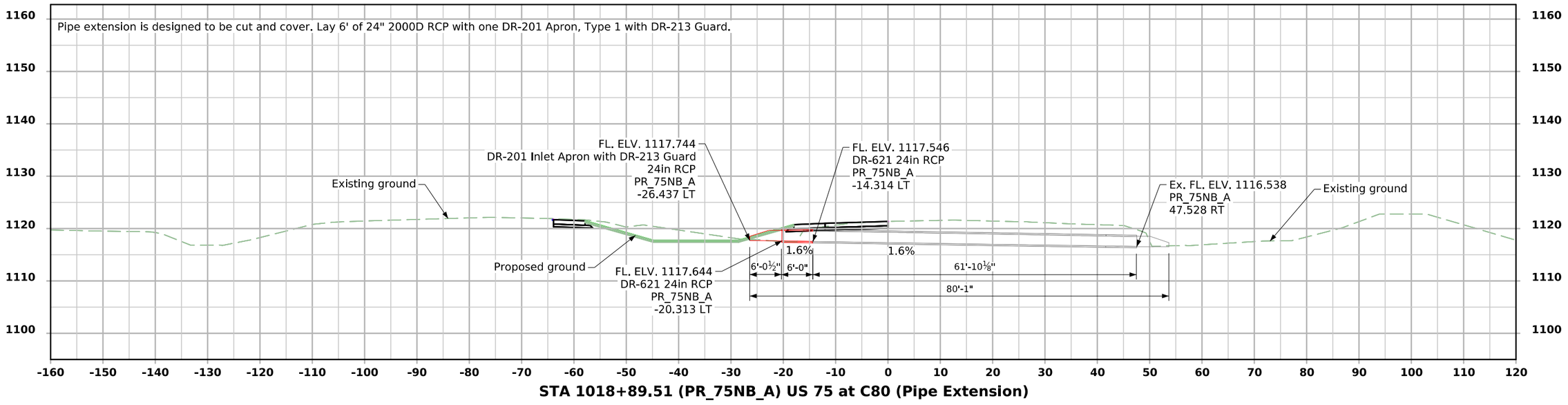
REMOVALS U.S. 75 AT C70

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER U.5

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US 75 at C80

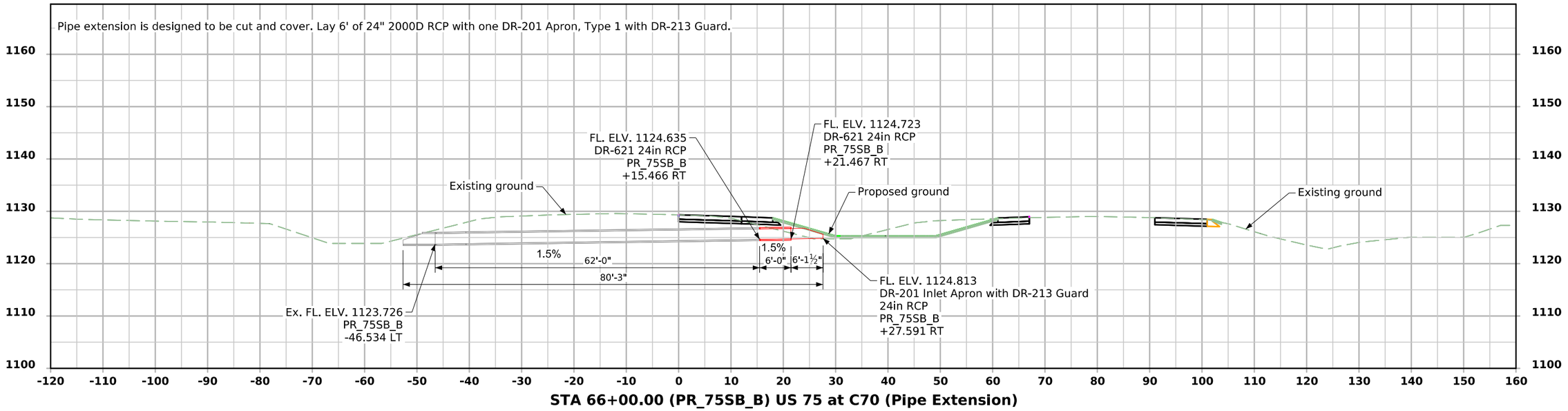




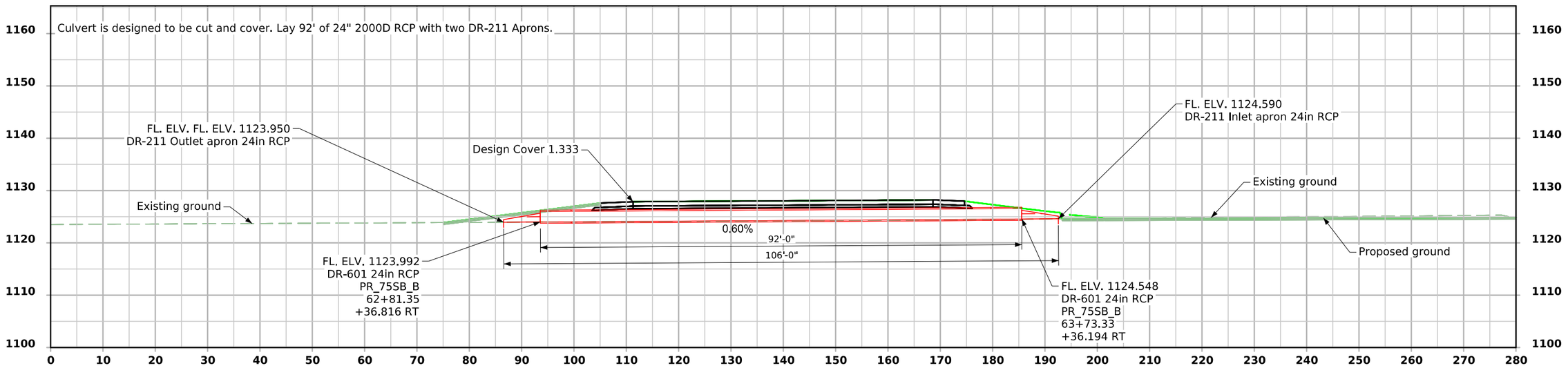
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US 75 at C70



STA 66+00.00 (PR_75SB_B) US 75 at C70 (Pipe Extension)

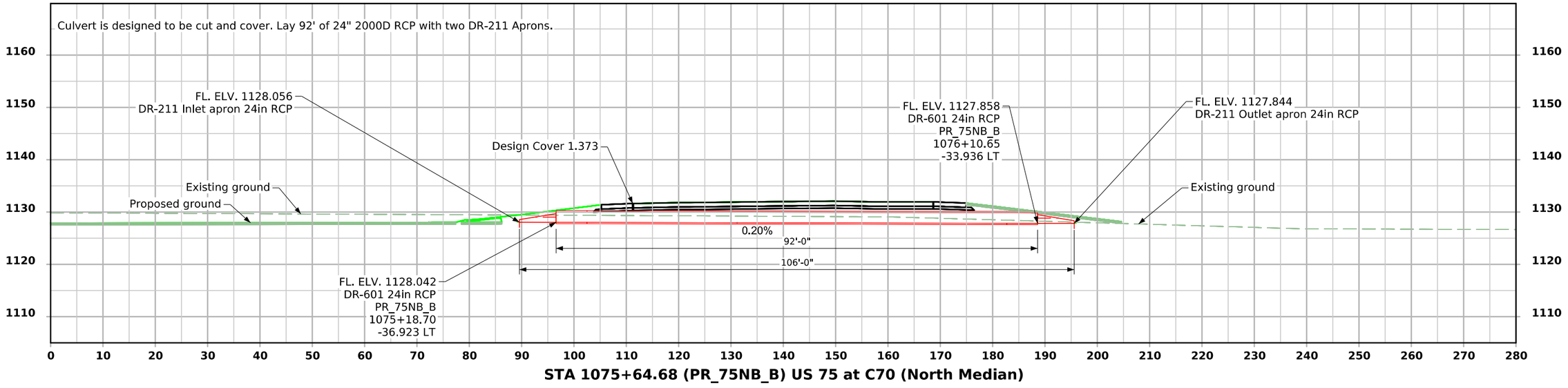


STA 63+27.32 (PR_75SB_B) US 75 at C70 (South Median)

FILE NO. 32968	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER VW.2	

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US 75 at C70

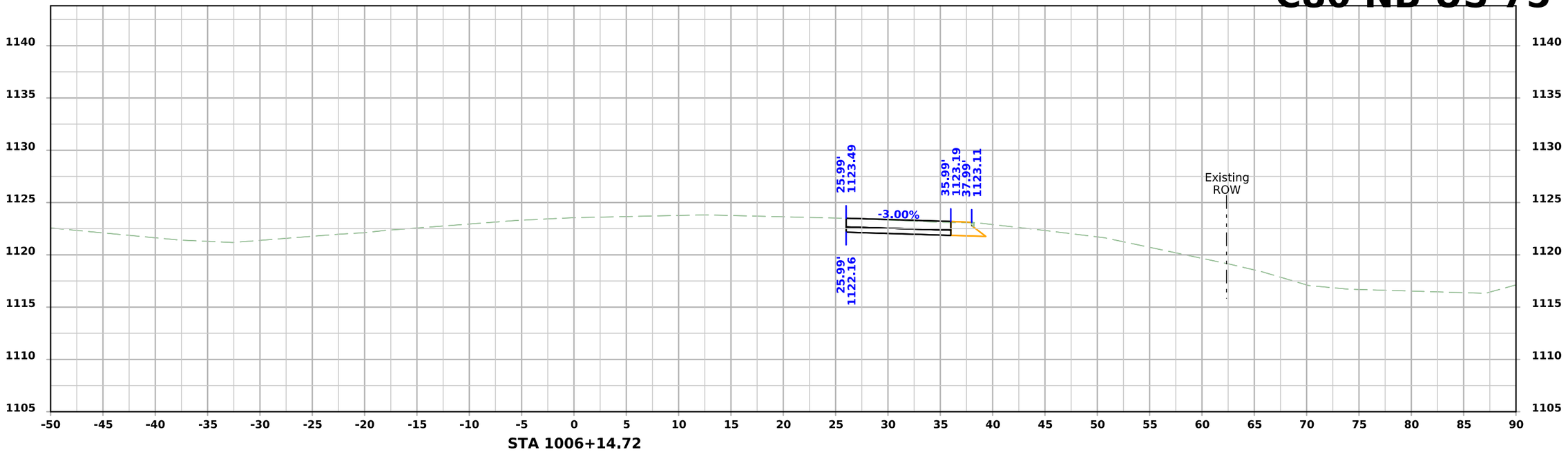


STA 1075+64.68 (PR_75NB_B) US 75 at C70 (North Median)

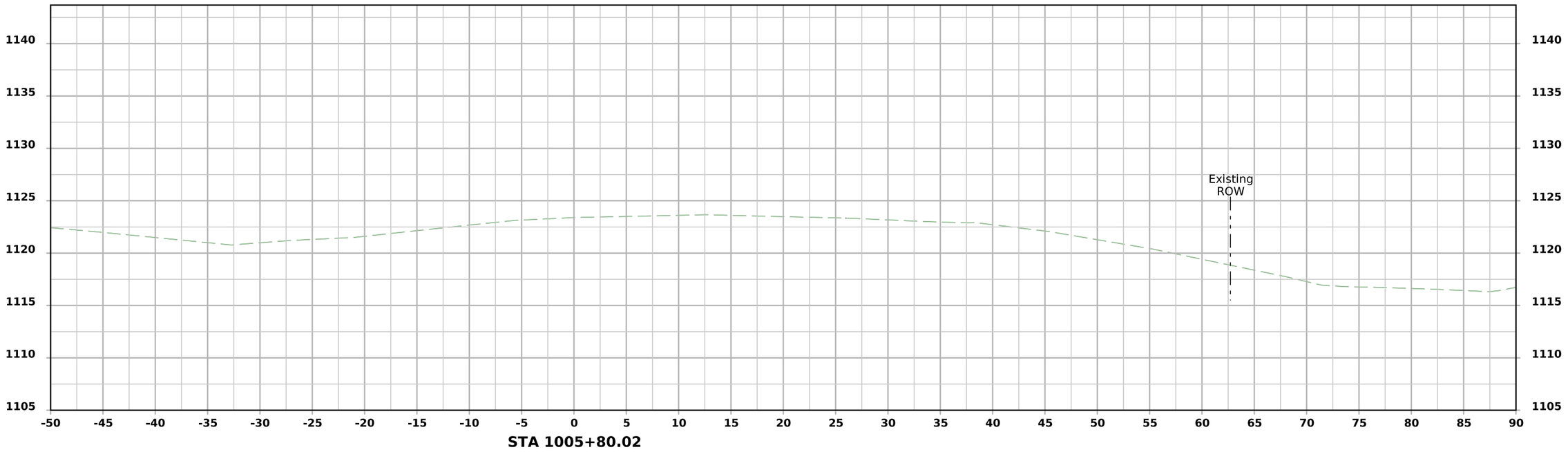
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C80 NB US 75



STA 1006+14.72

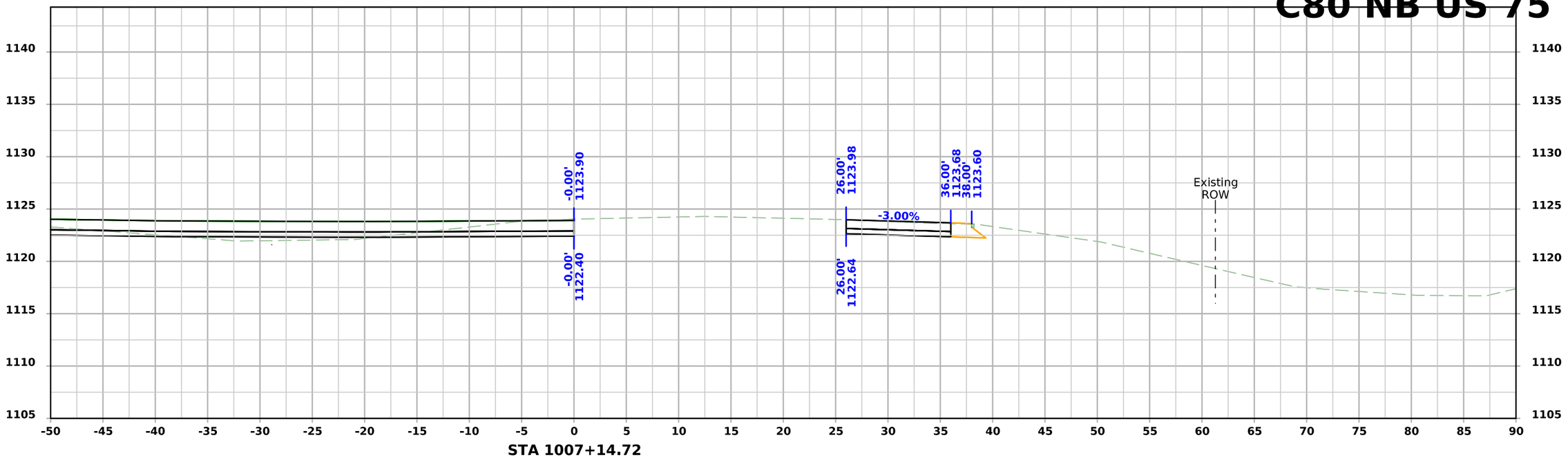


STA 1005+80.02

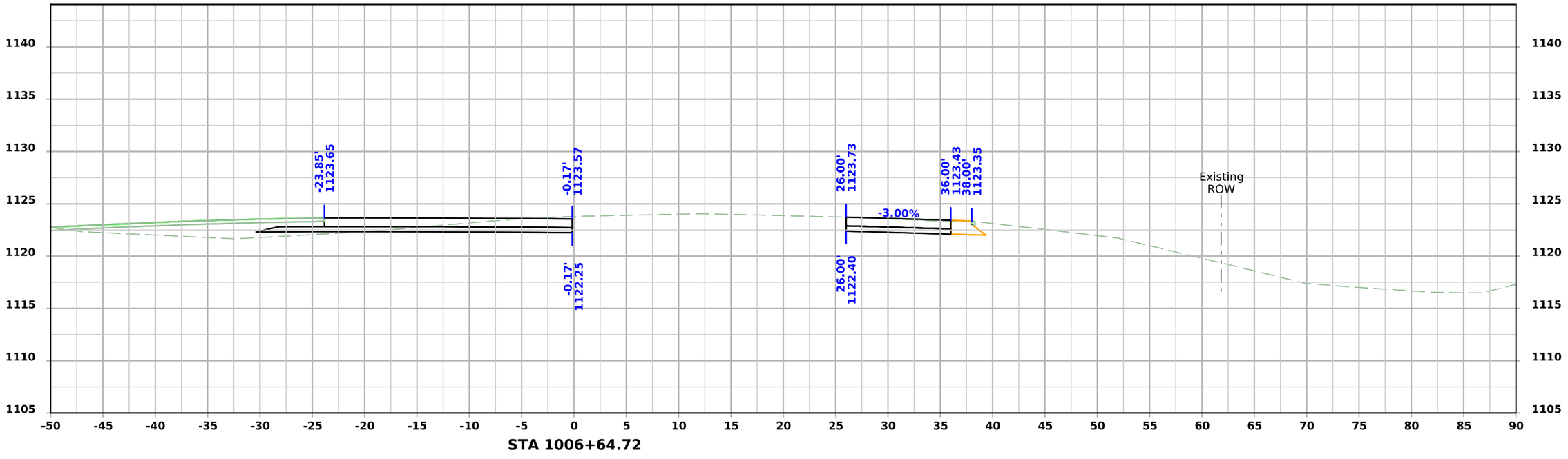
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C80 NB US 75



STA 1007+14.72

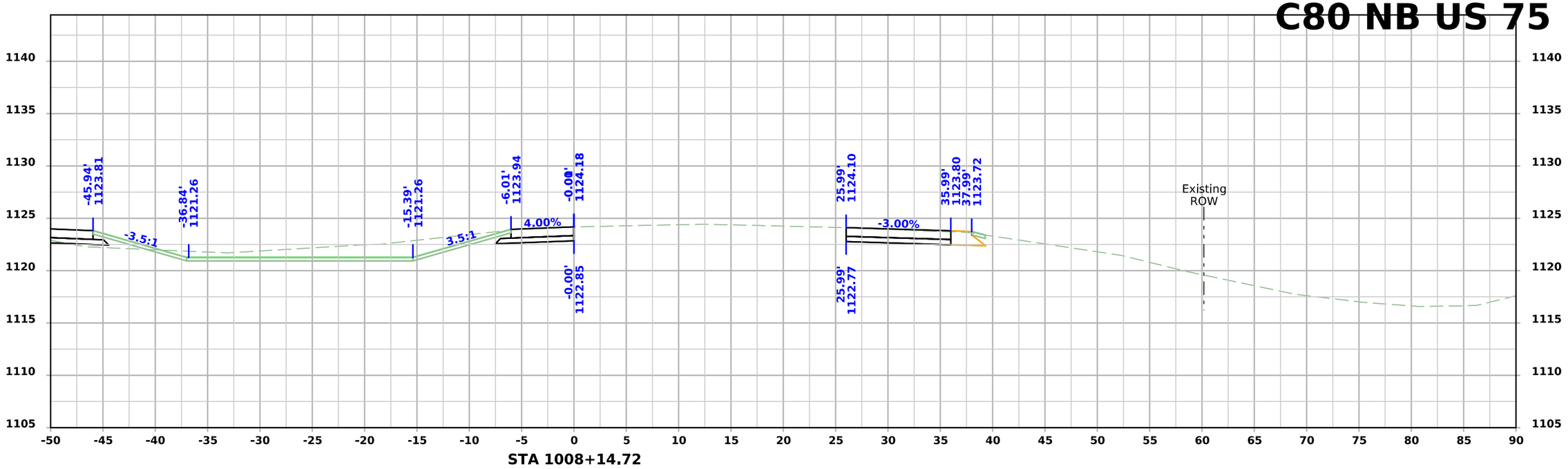


STA 1006+64.72

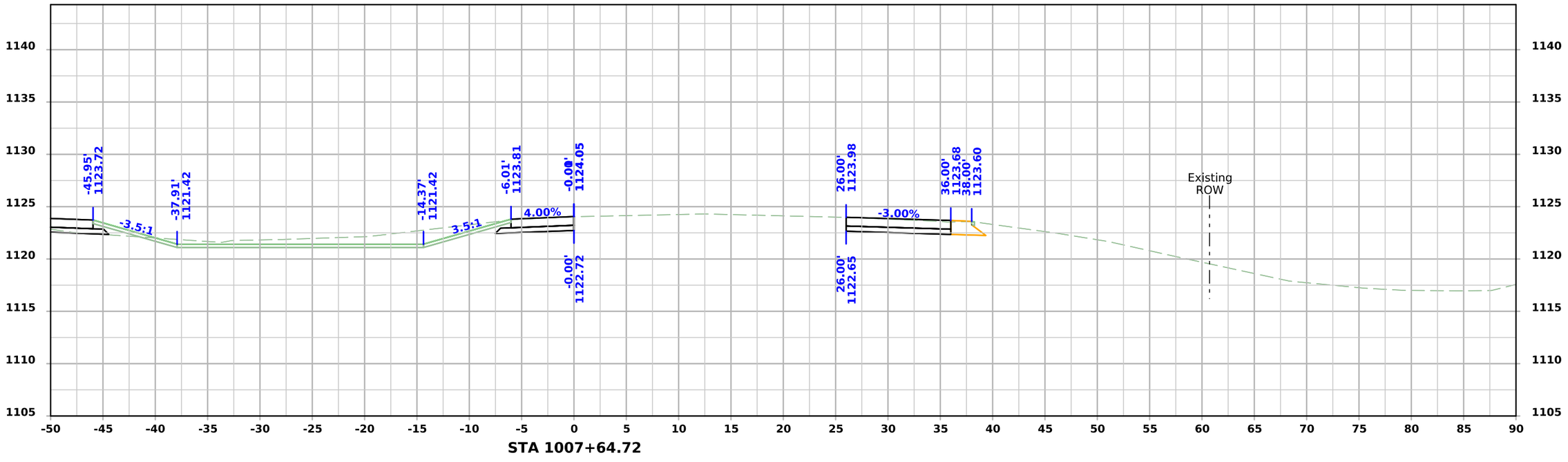
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C80 NB US 75



STA 1008+14.72

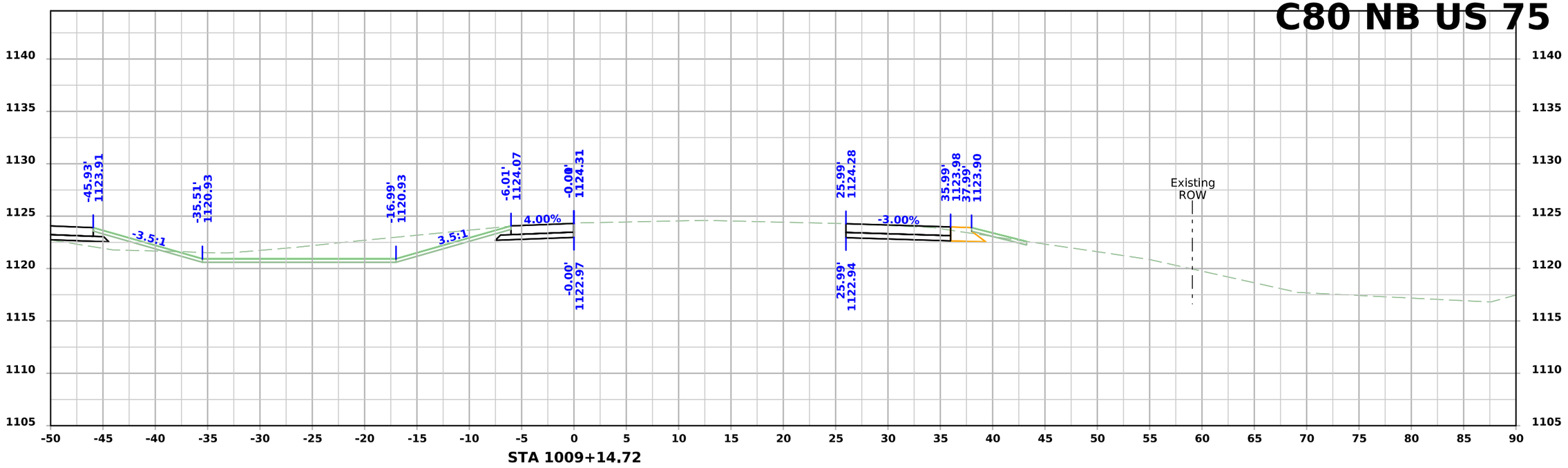


STA 1007+64.72

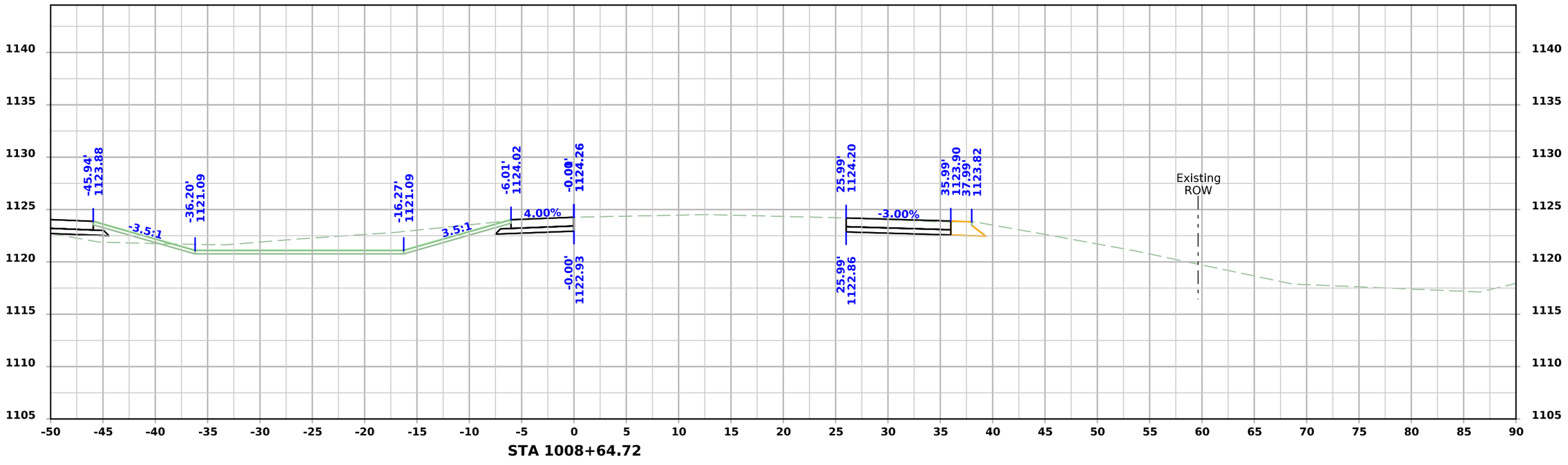
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C80 NB US 75



STA 1009+14.72

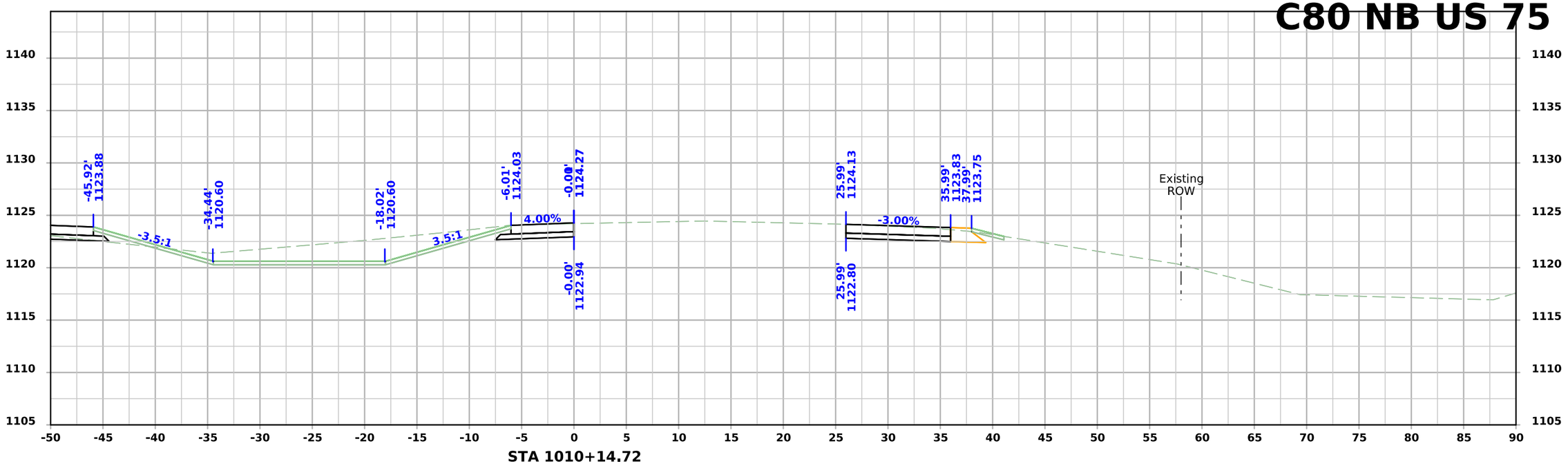


STA 1008+64.72

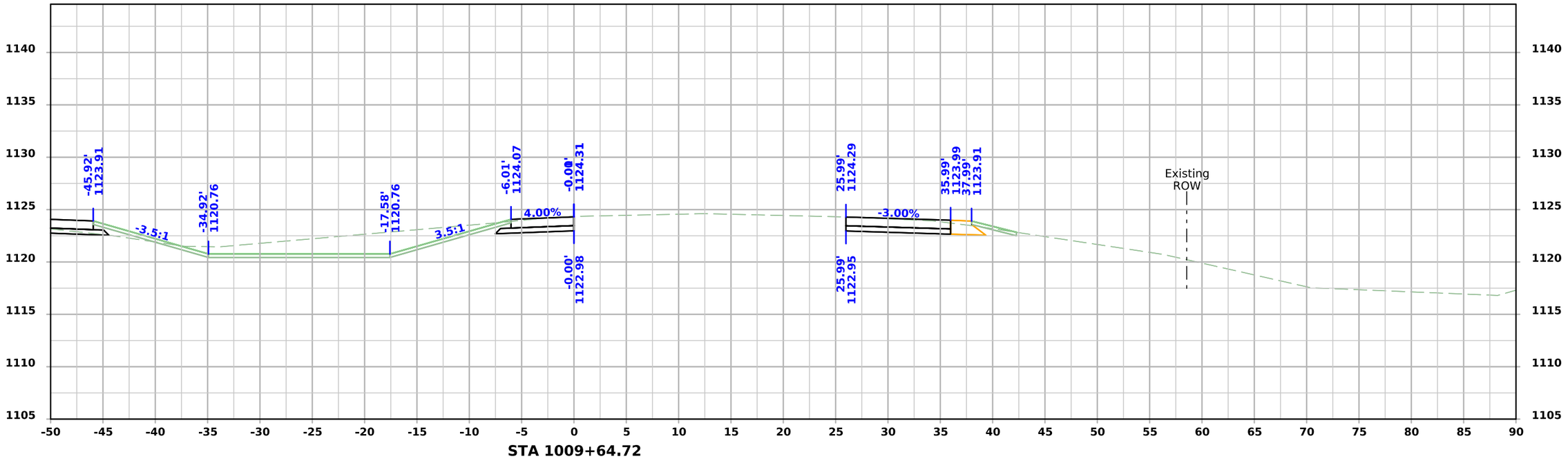
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C80 NB US 75



STA 1010+14.72

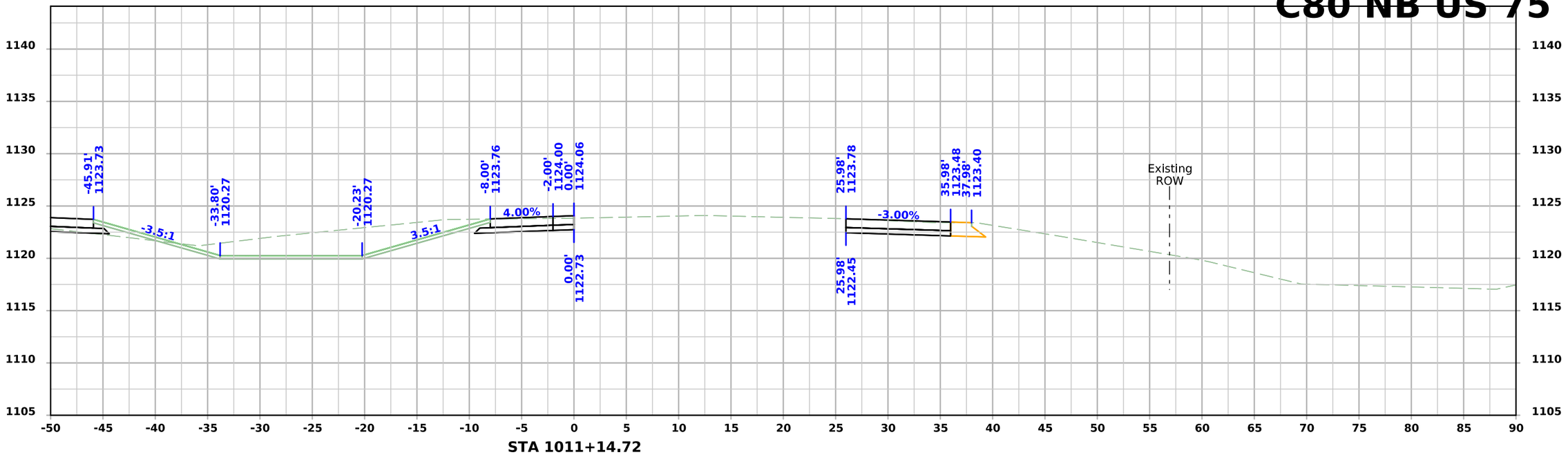


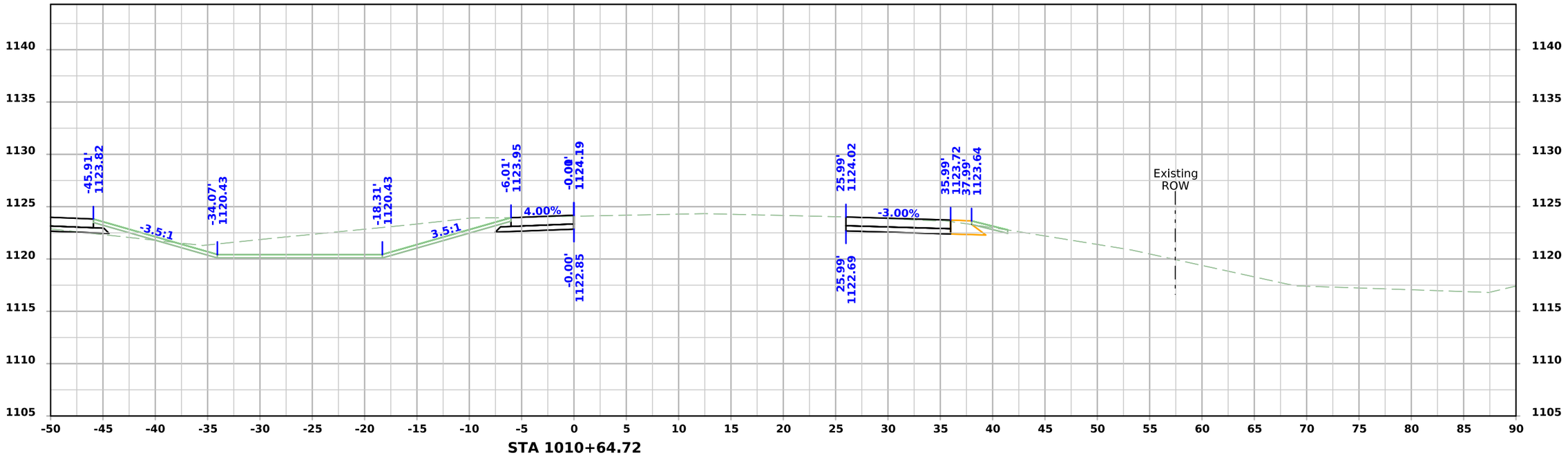
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C80 NB US 75

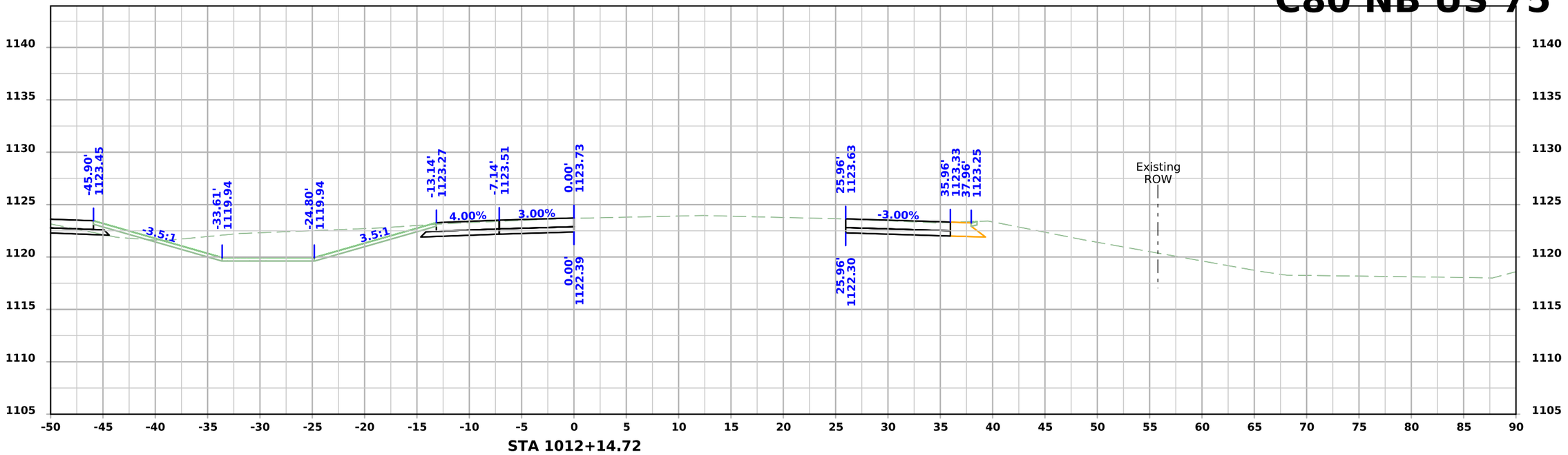


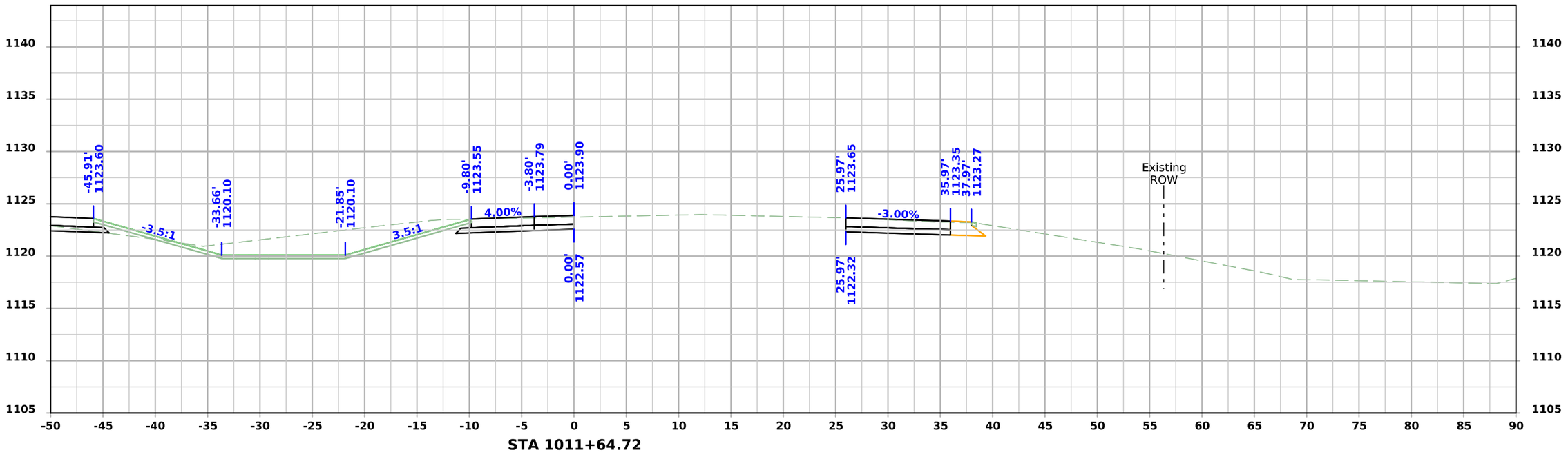


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C80 NB US 75

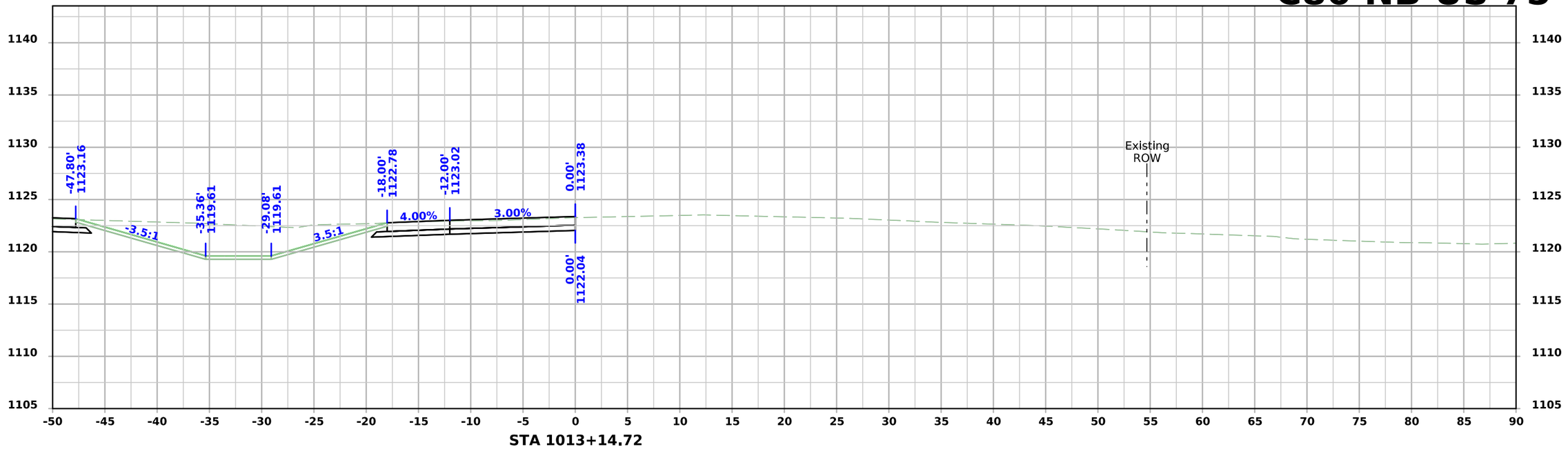


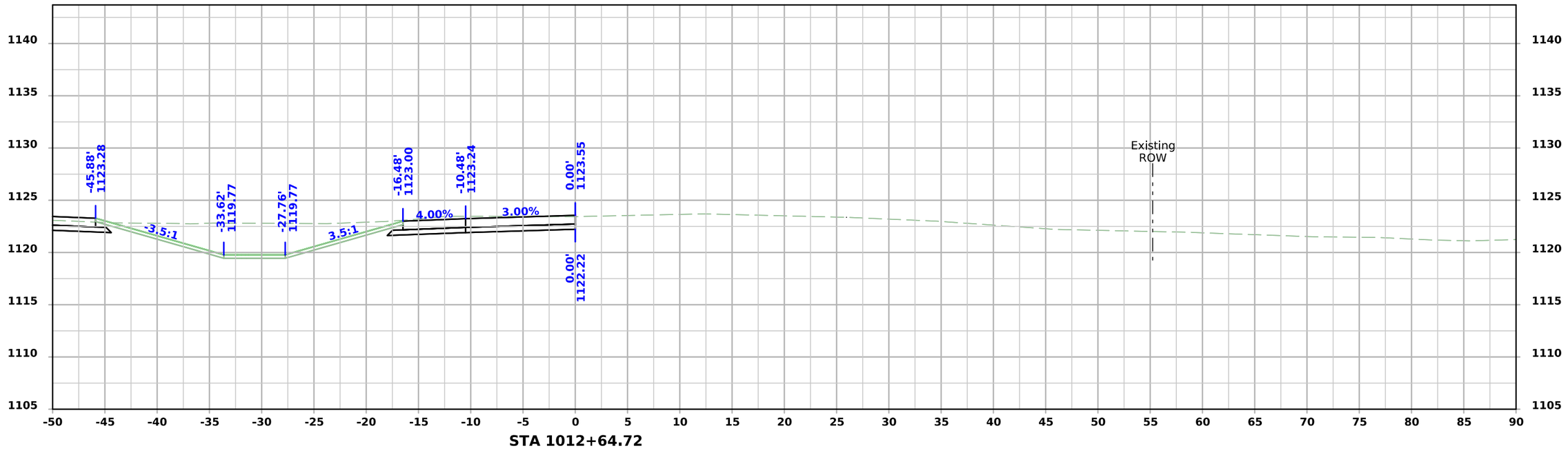


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C80 NB US 75

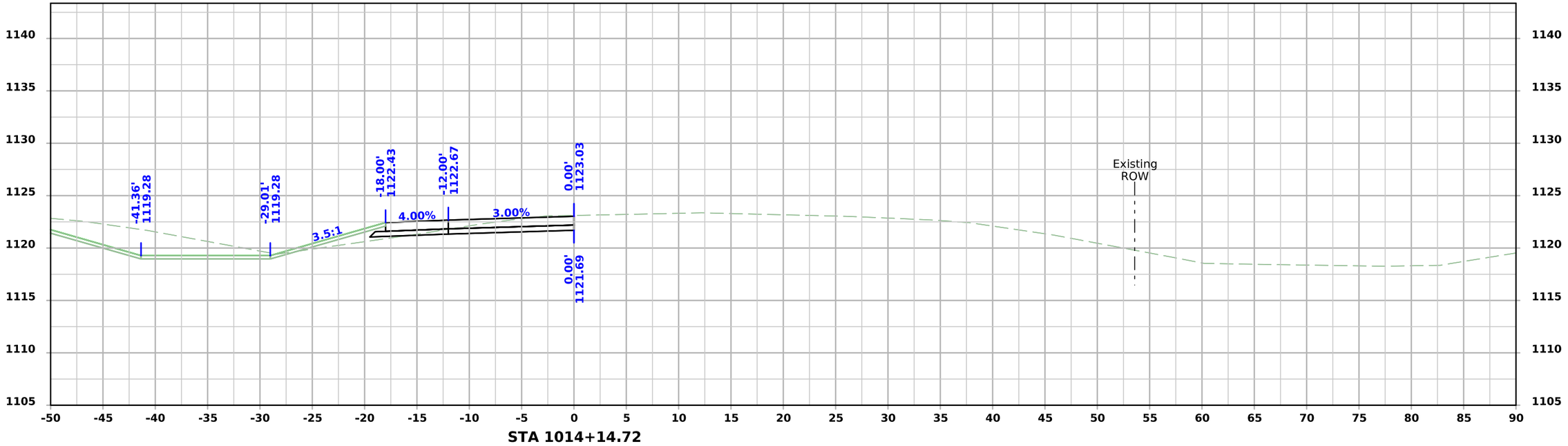




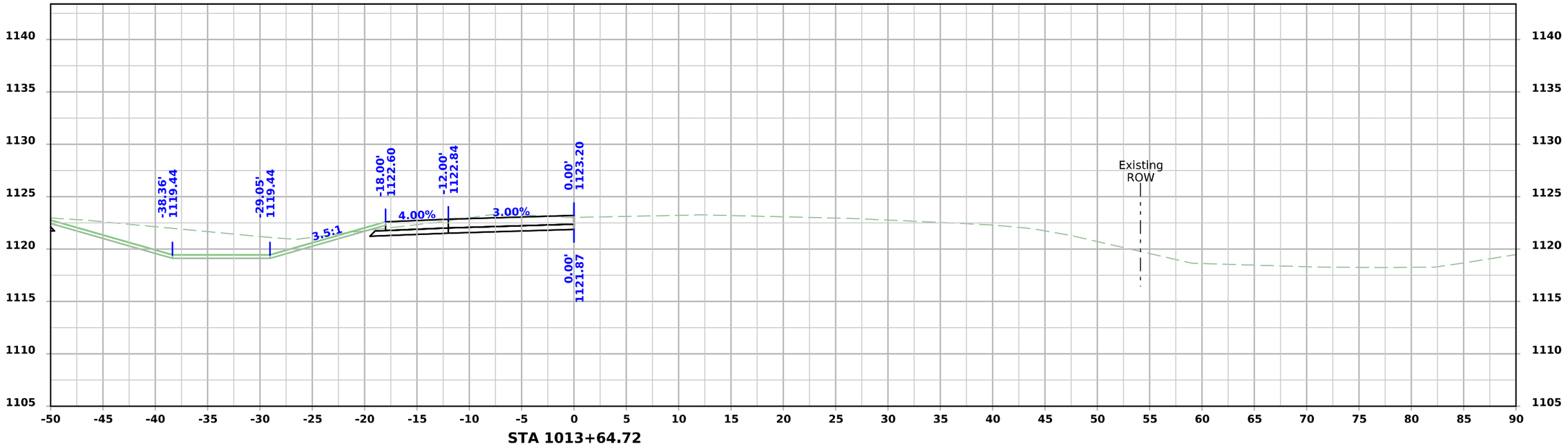
FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.8

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C80 NB US 75



STA 1014+14.72

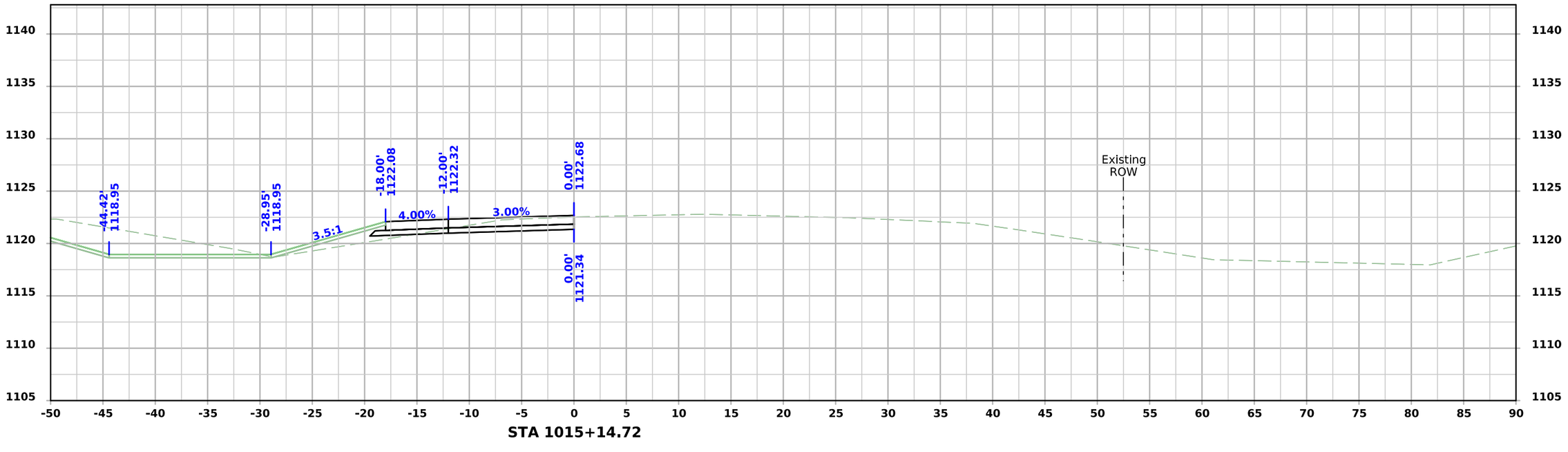


STA 1013+64.72

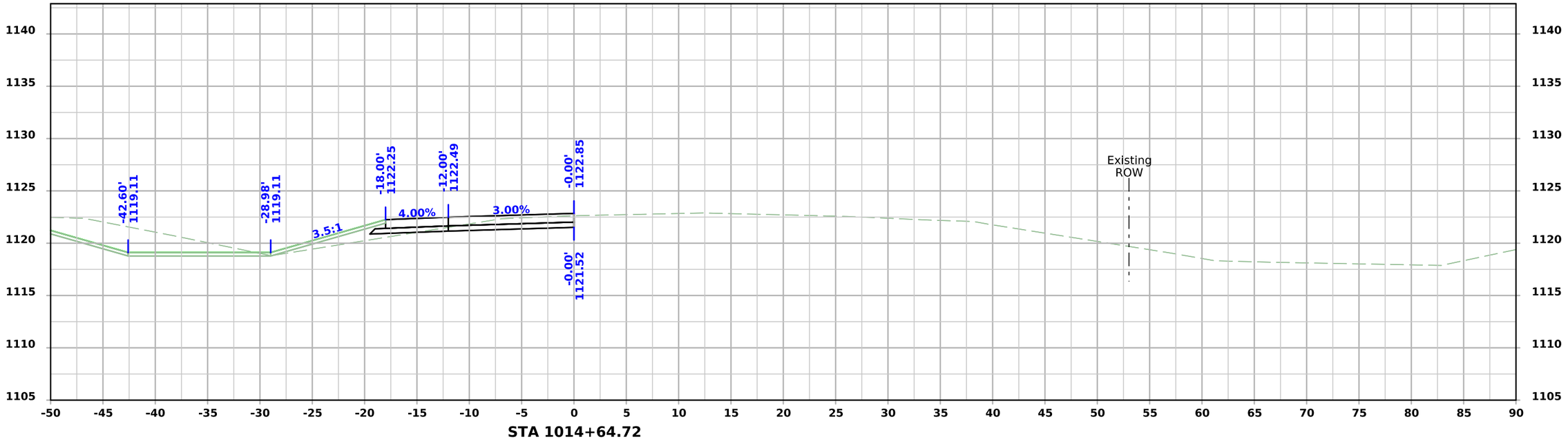
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C80 NB US 75



STA 1015+14.72

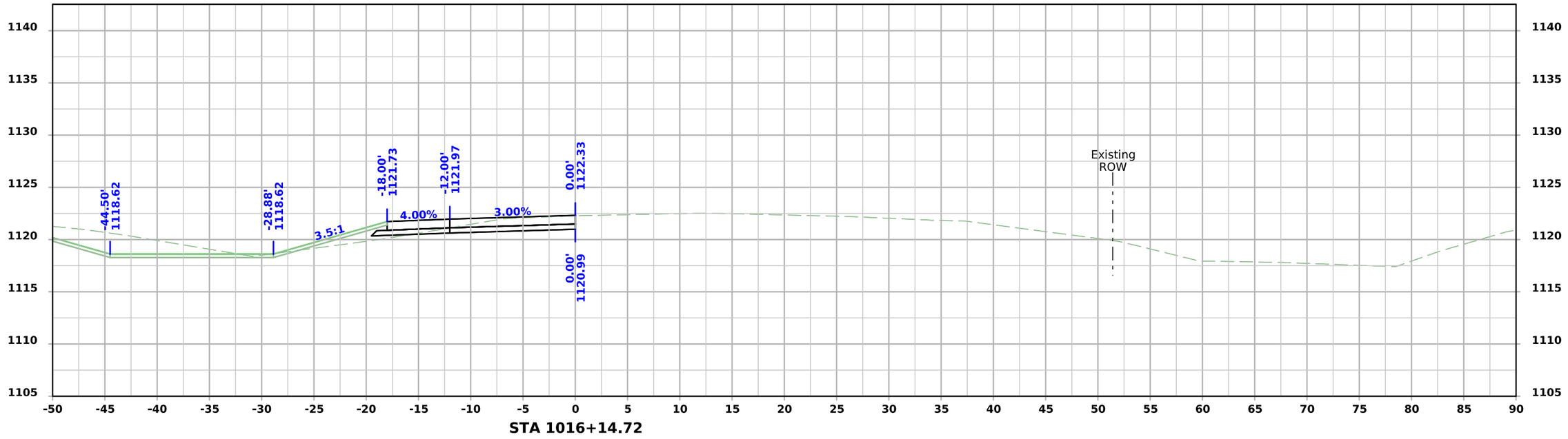


STA 1014+64.72

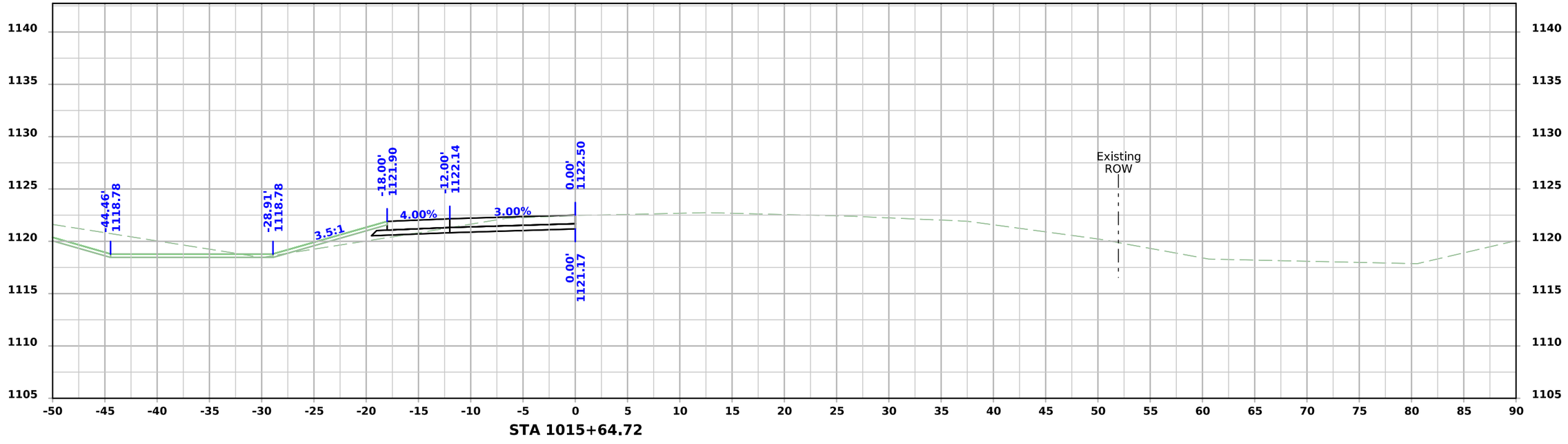
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C80 NB US 75



STA 1016+14.72

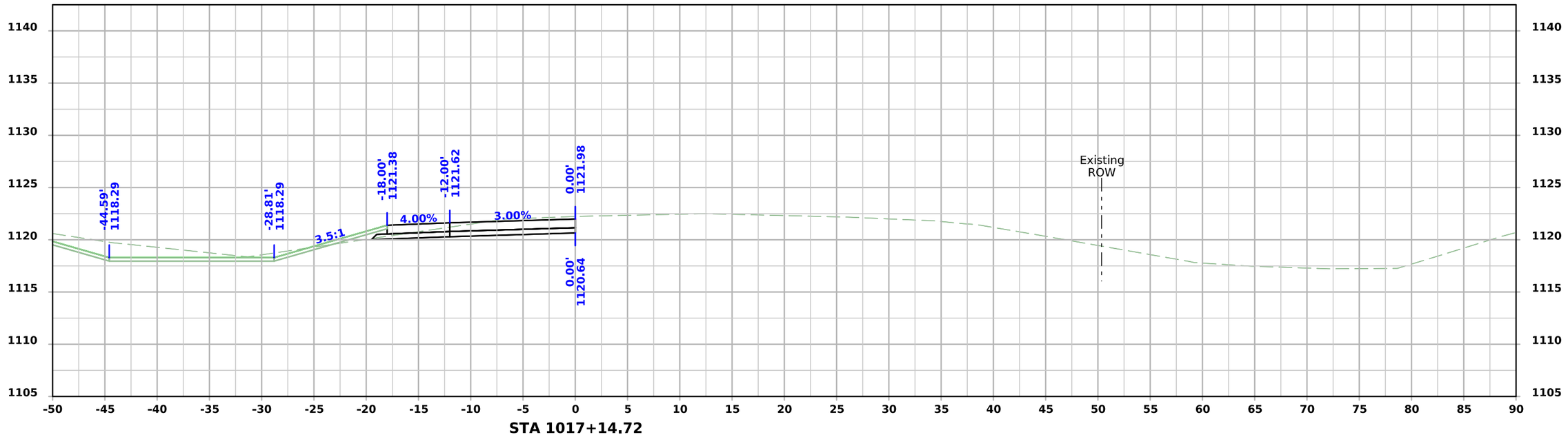


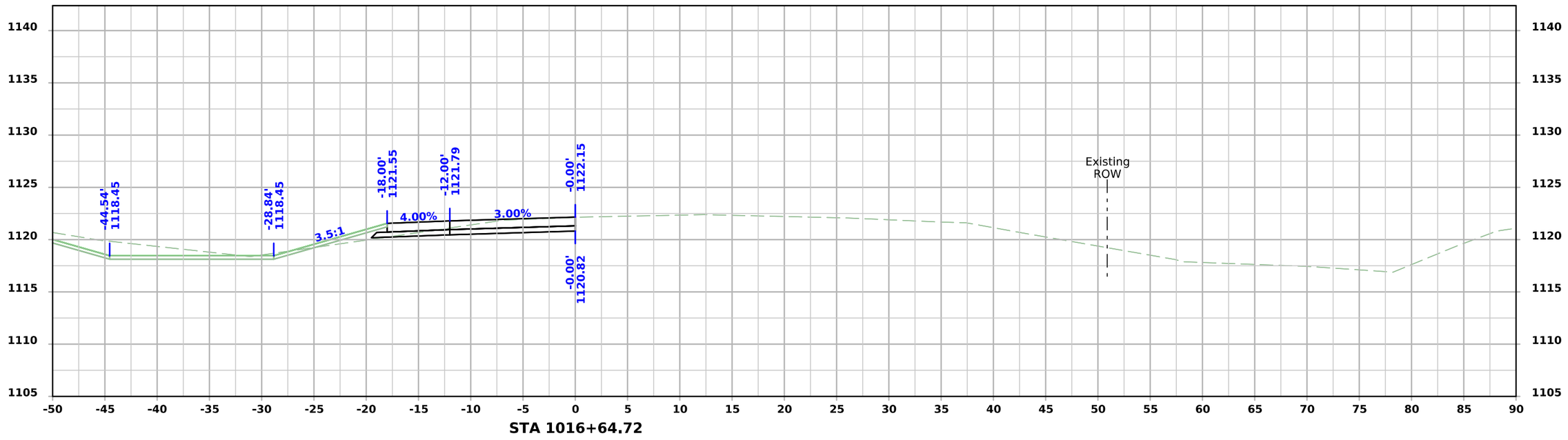
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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.11

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C80 NB US 75

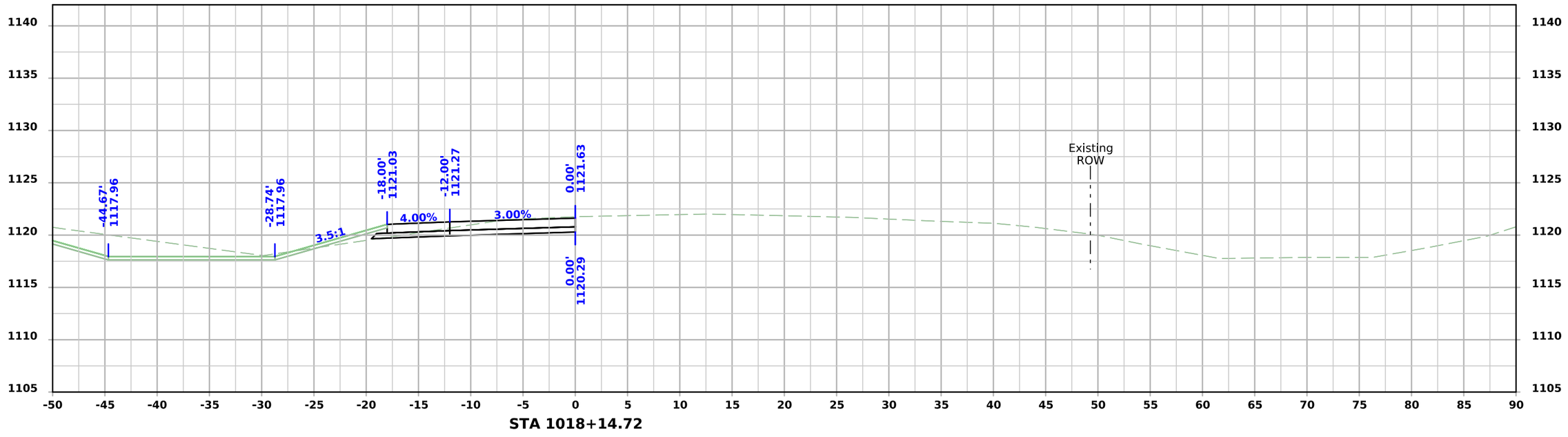


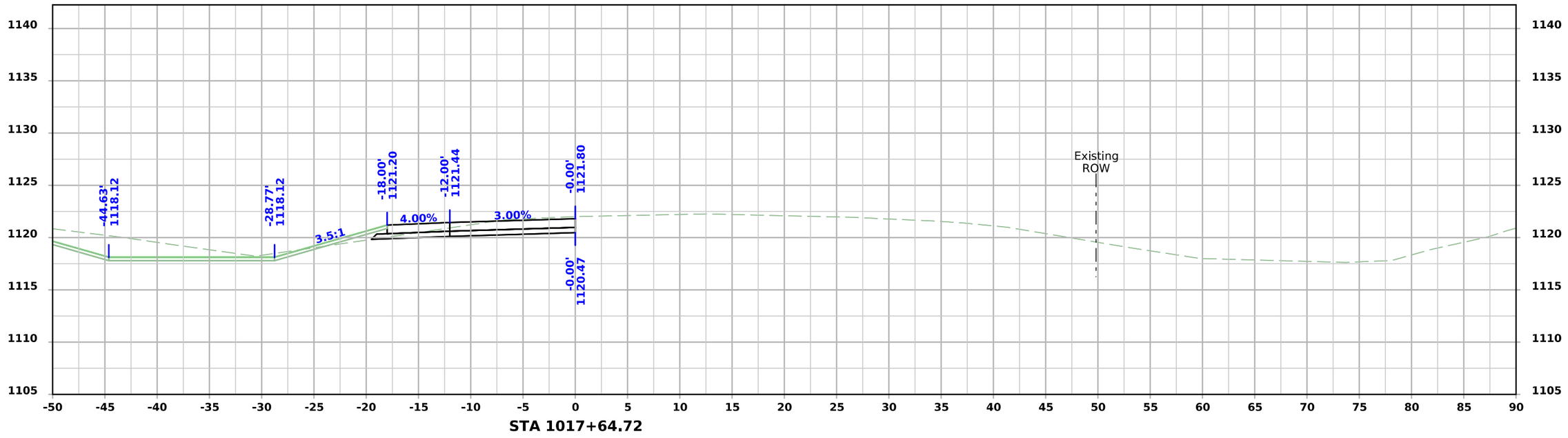


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.12

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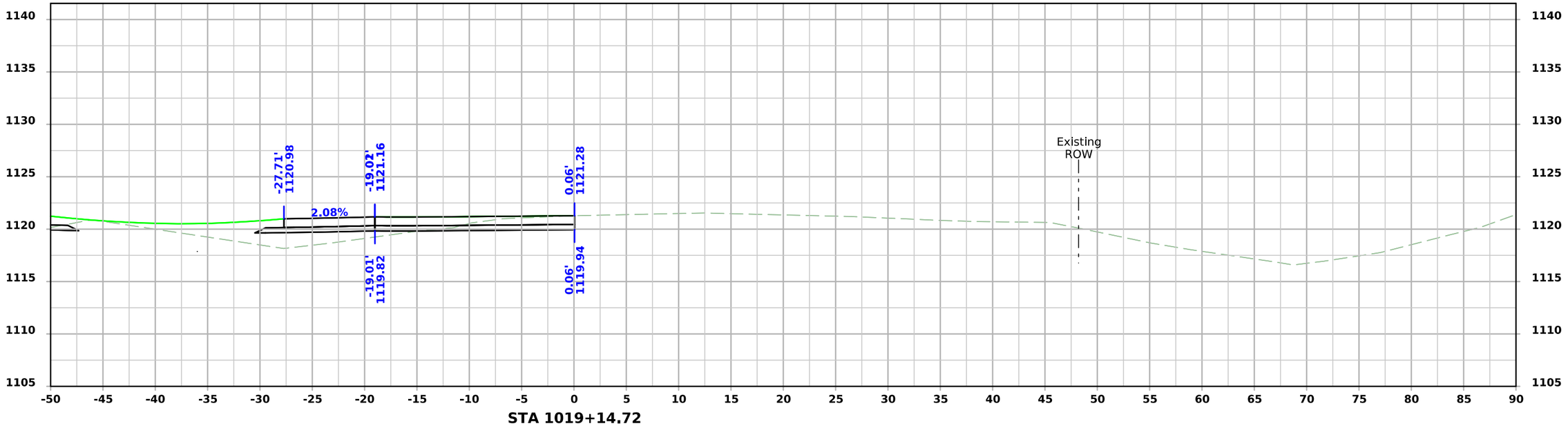




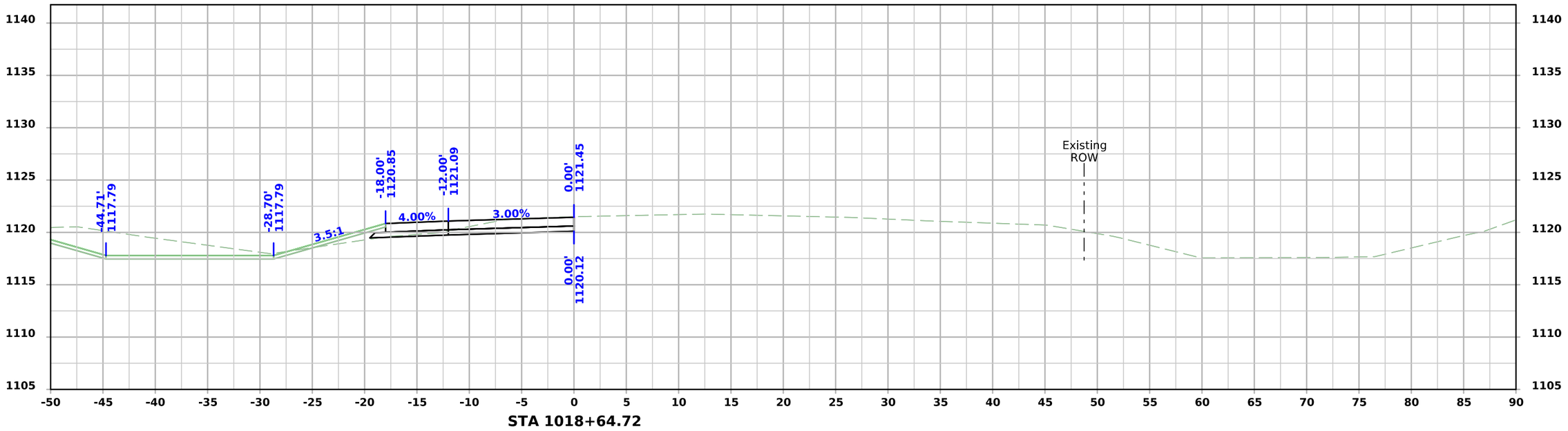
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C80 NB US 75



STA 1019+14.72

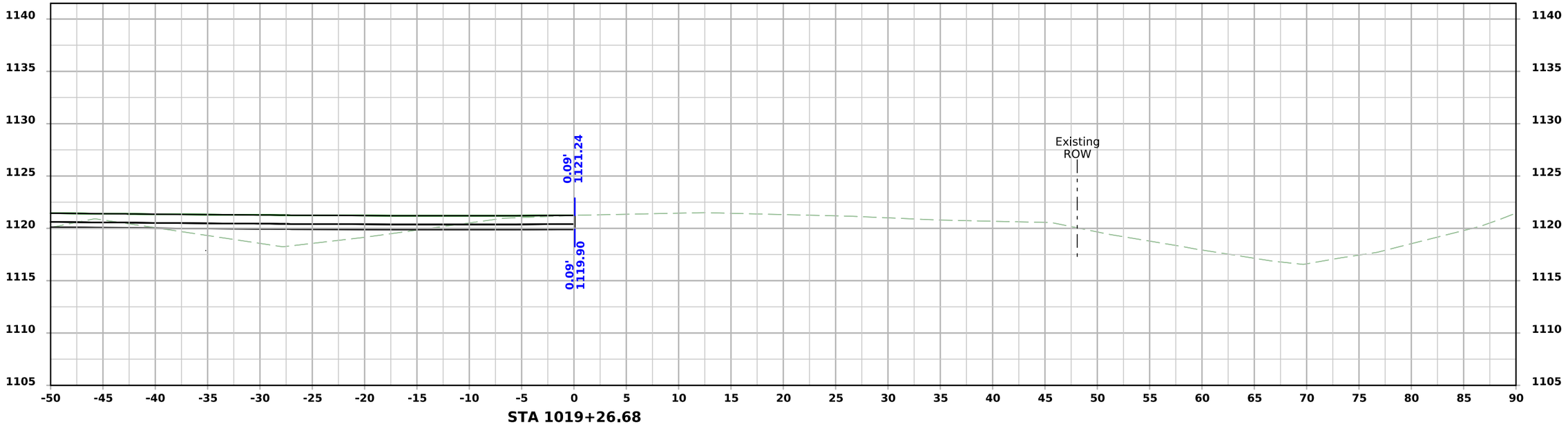


STA 1018+64.72

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.14

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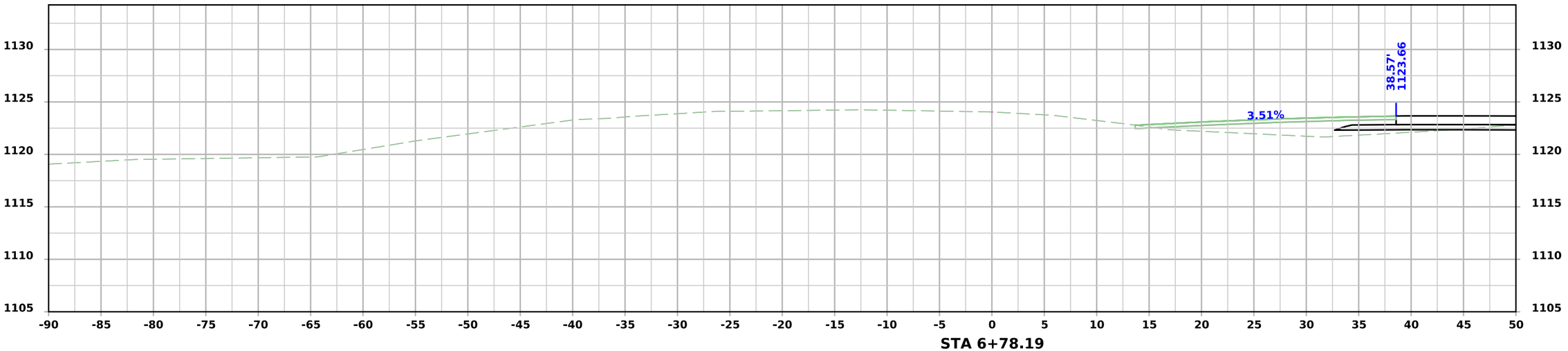
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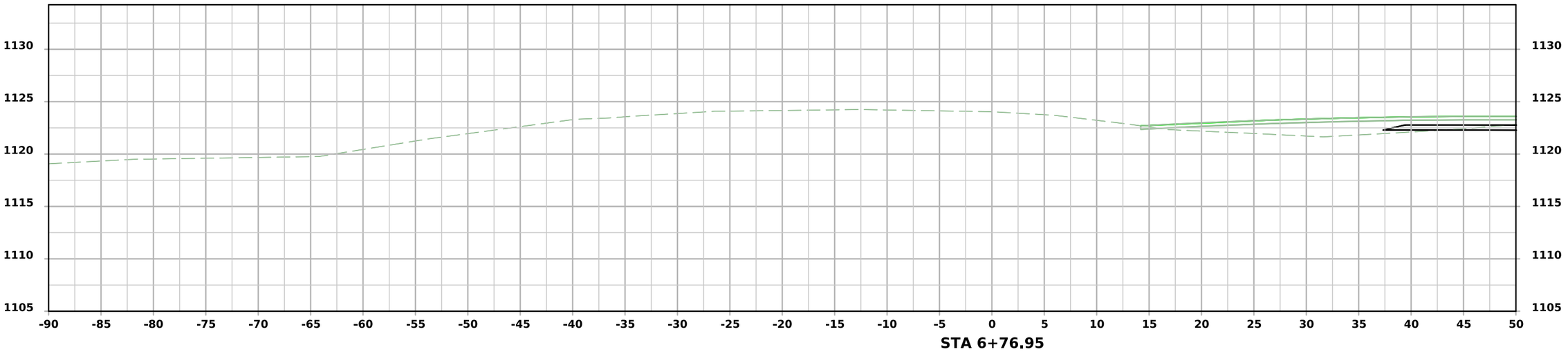
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C80 SB US 75



STA 6+78.19

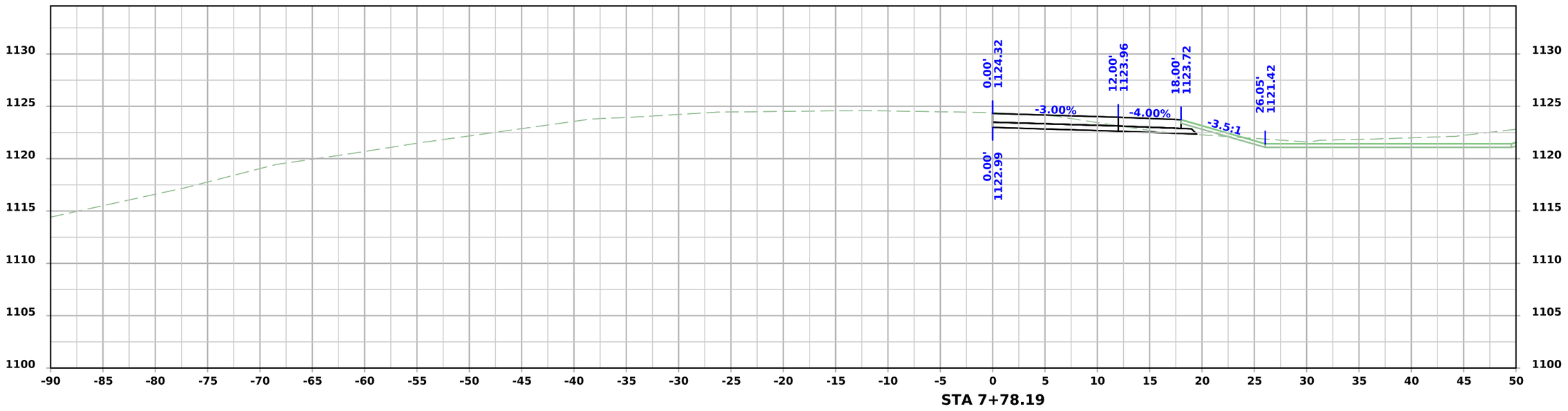


STA 6+76.95

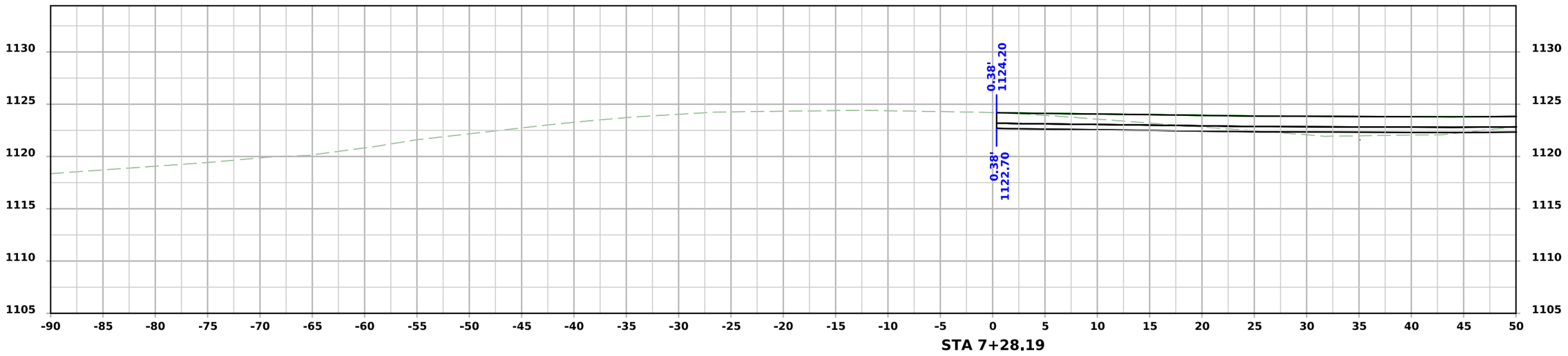
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C80 SB US 75



STA 7+78.19

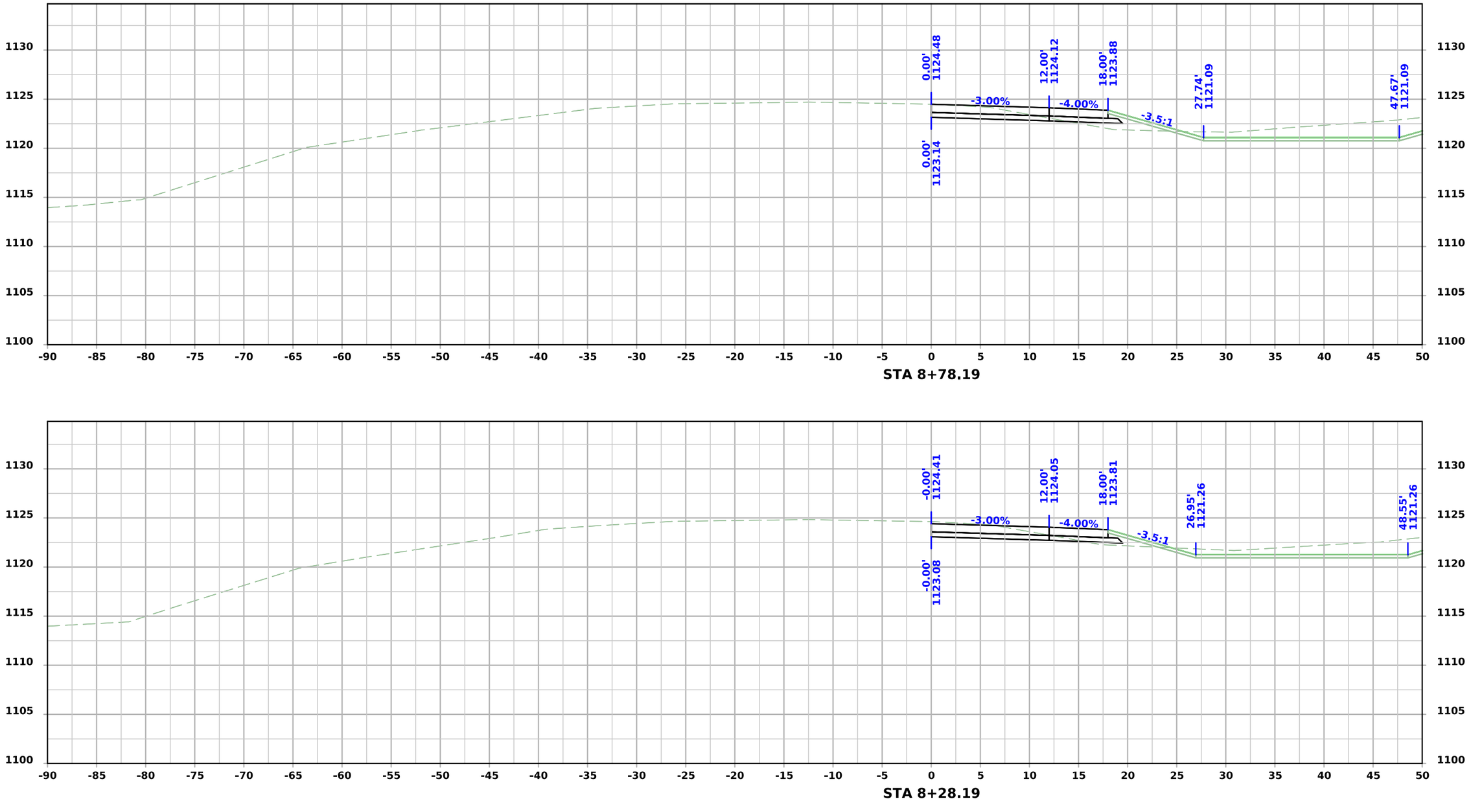


STA 7+28.19

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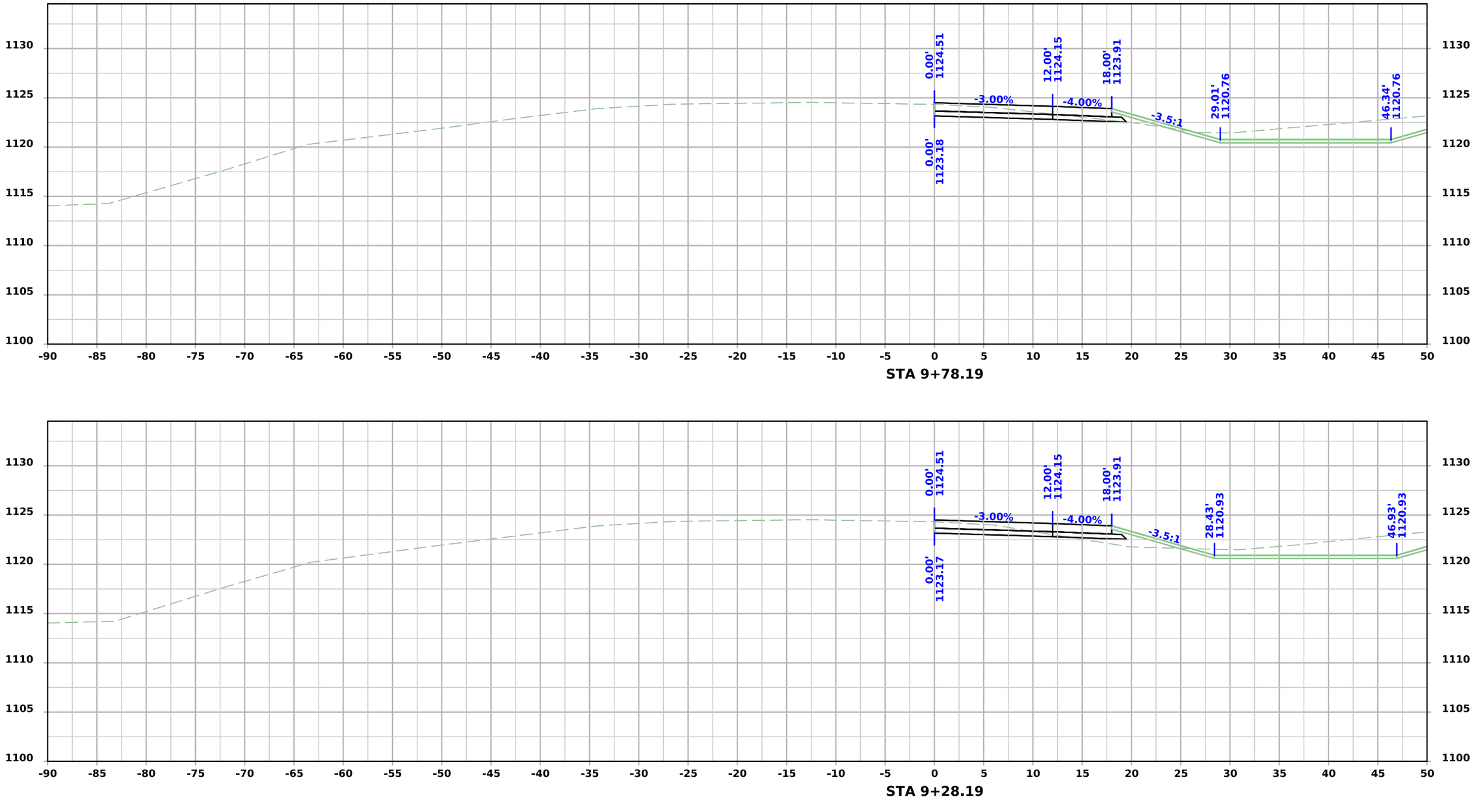
C80 SB US 75



FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.18

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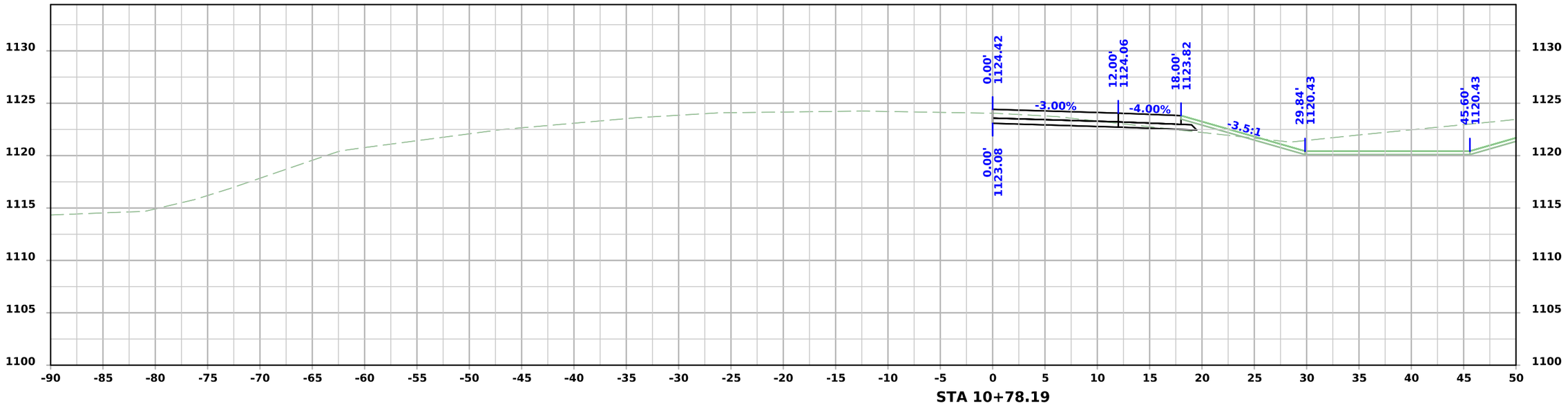
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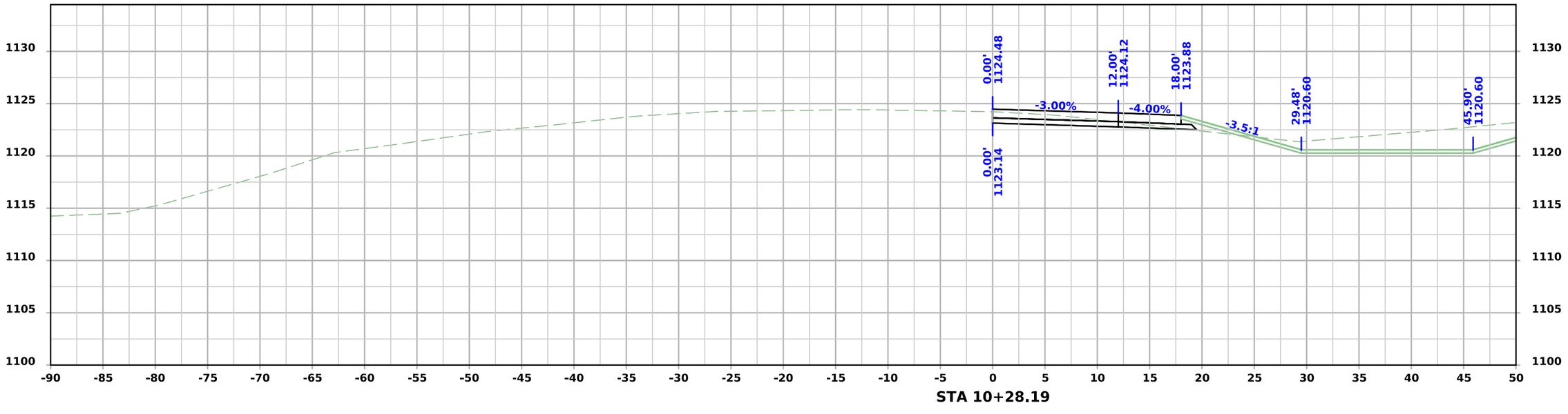


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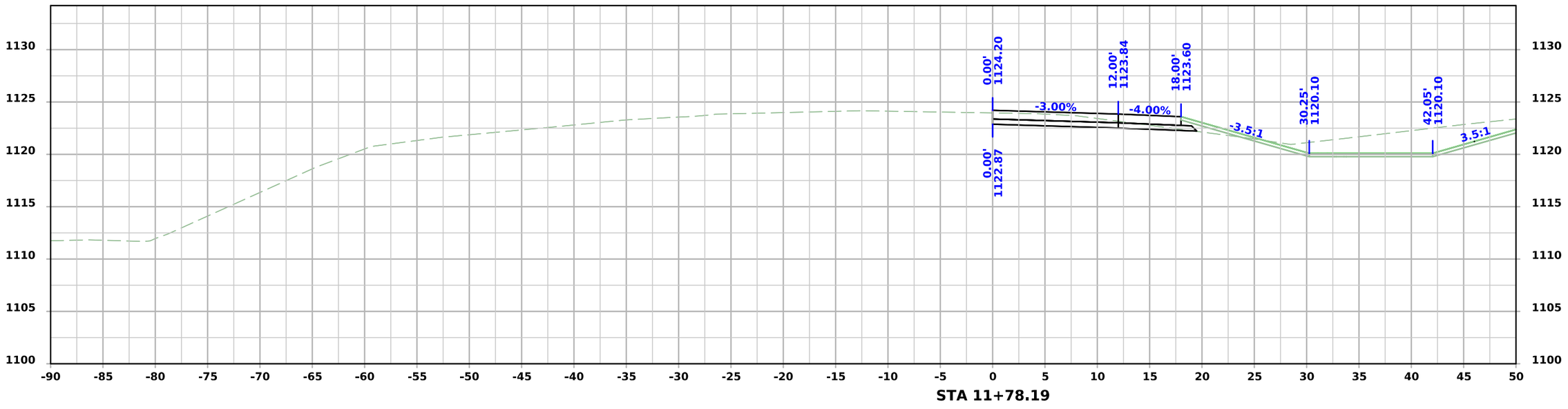


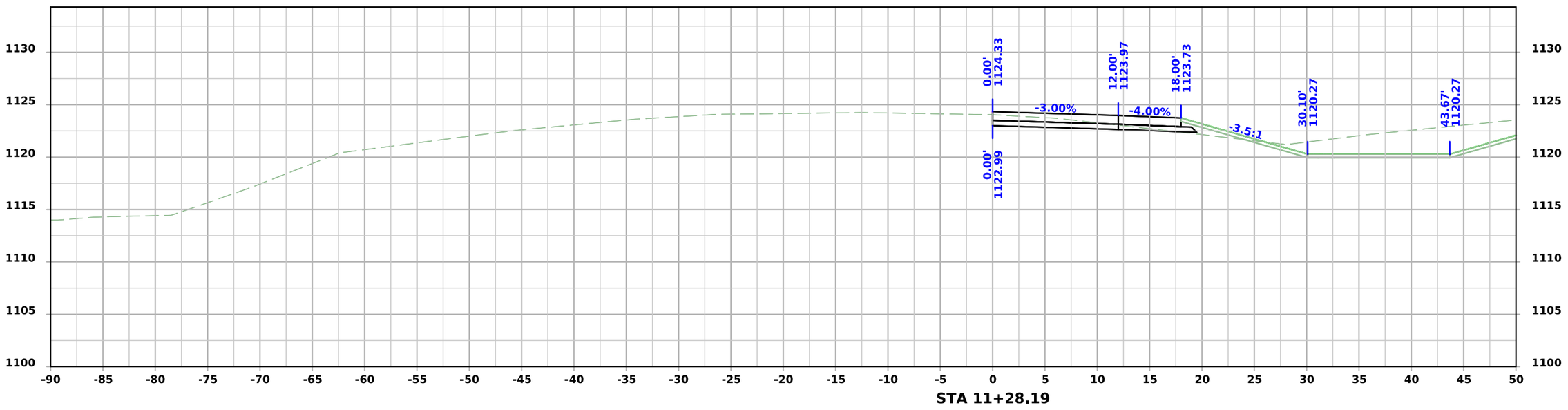


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C80 SB US 75

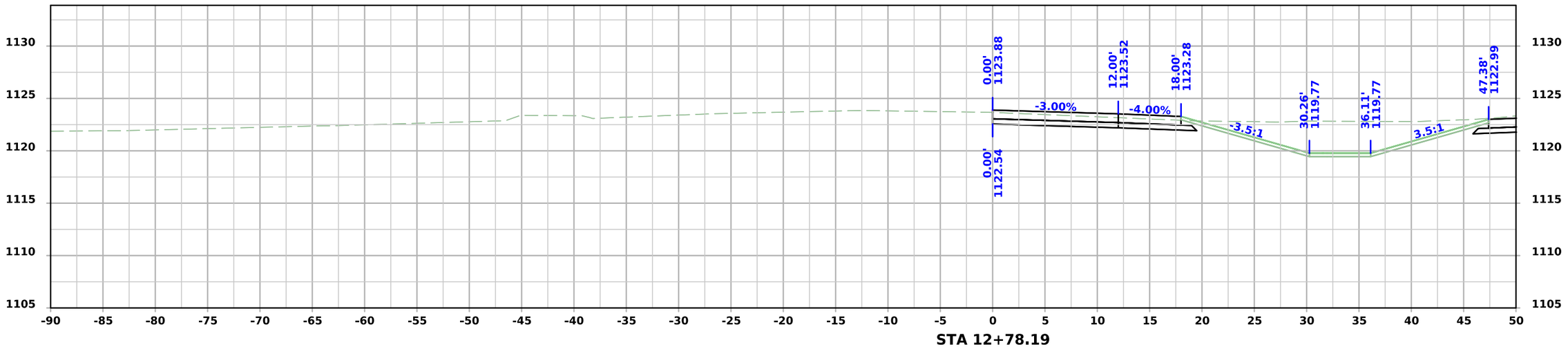




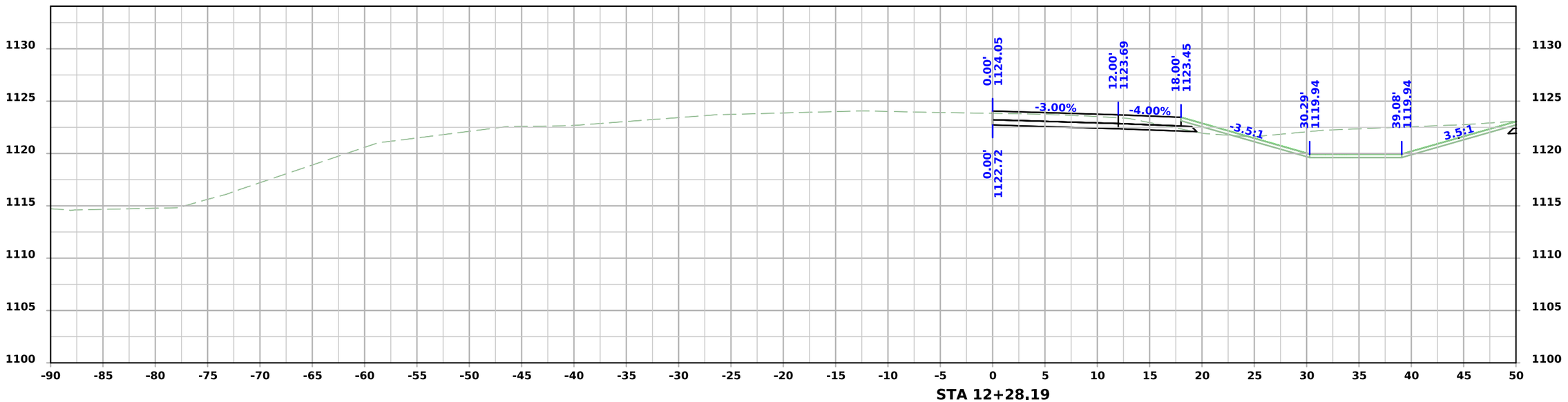
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C80 SB US 75



STA 12+78.19

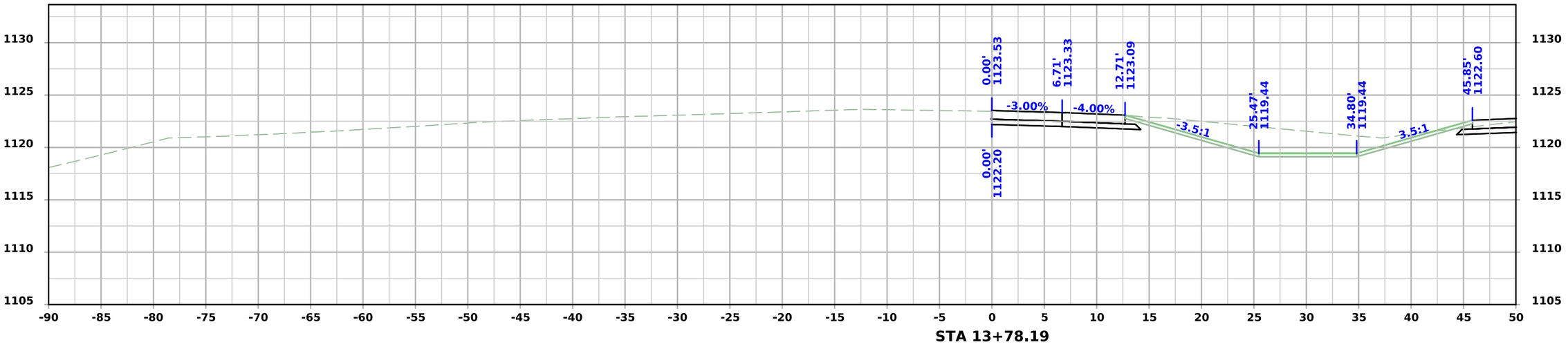


STA 12+28.19

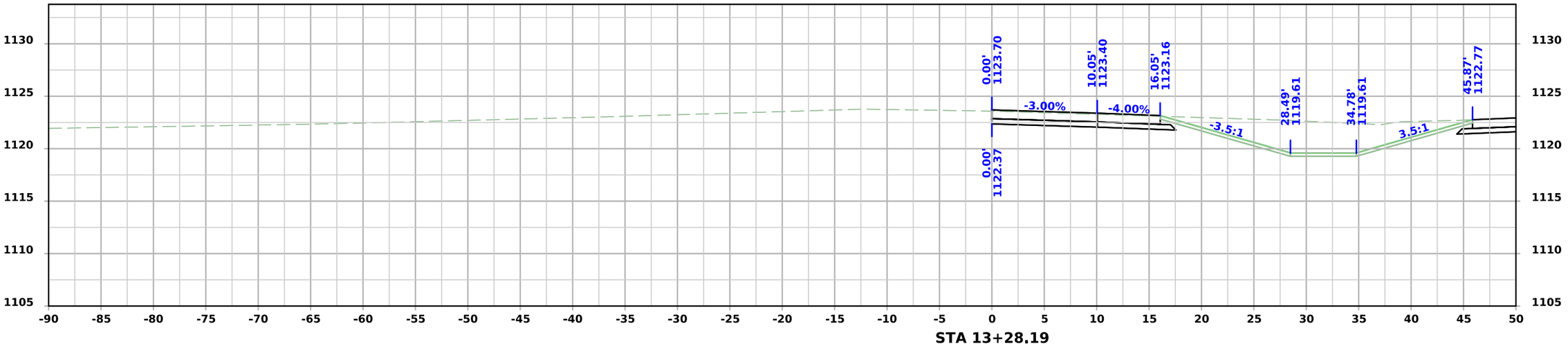
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C80 SB US 75



STA 13+78.19

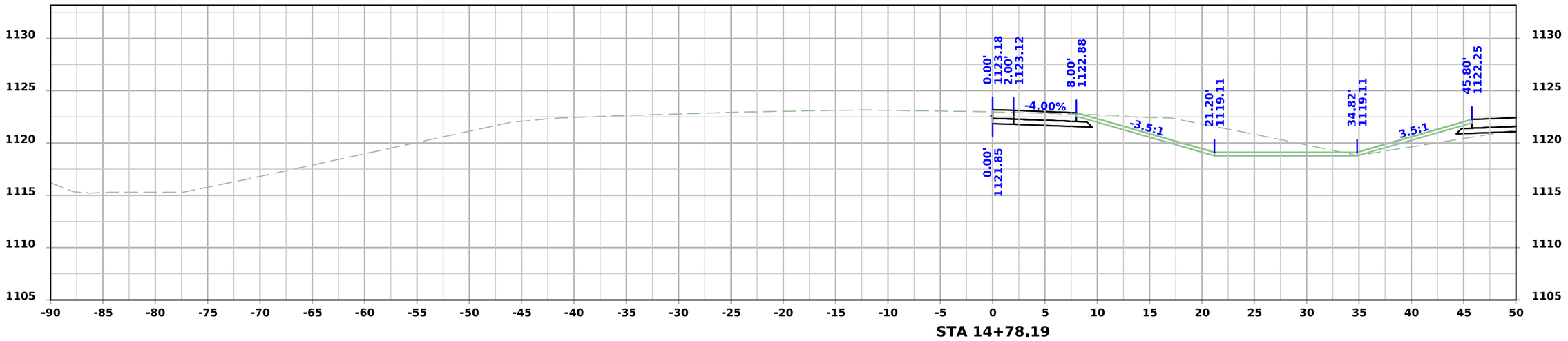


STA 13+28.19

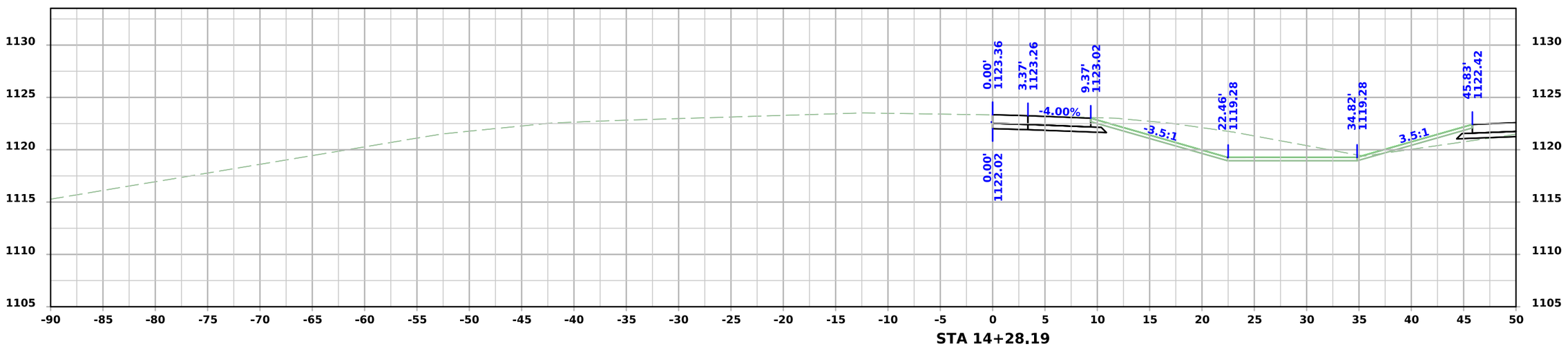
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C80 SB US 75



STA 14+78.19

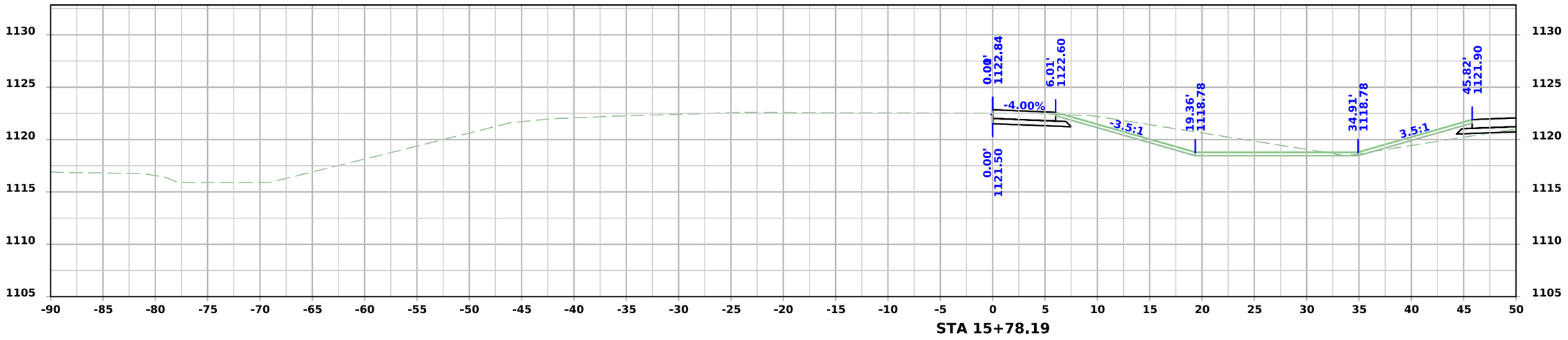


STA 14+28.19

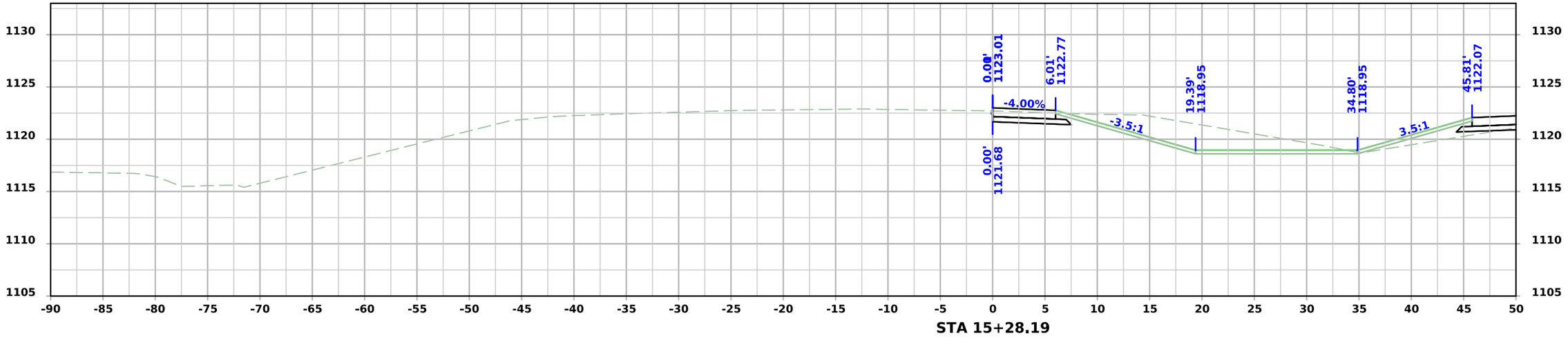
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C80 SB US 75



STA 15+78.19

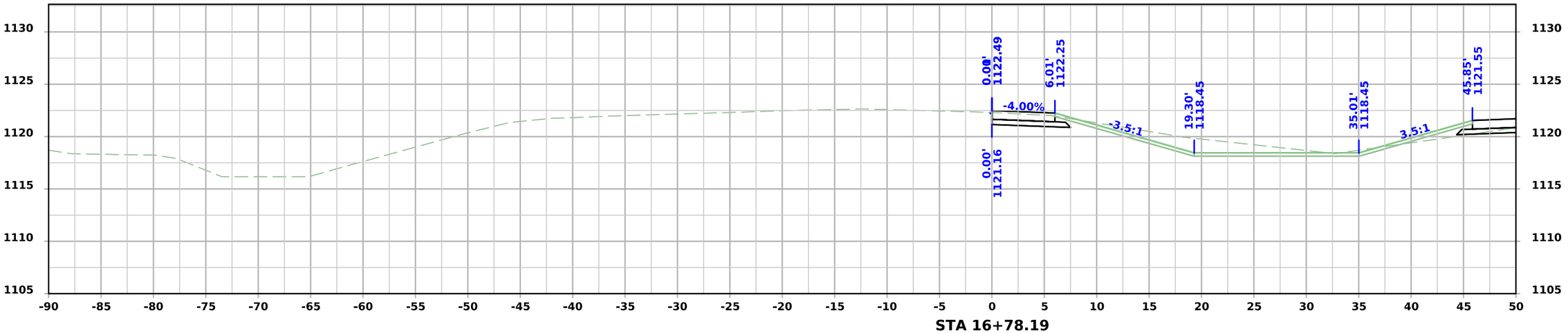


STA 15+28.19

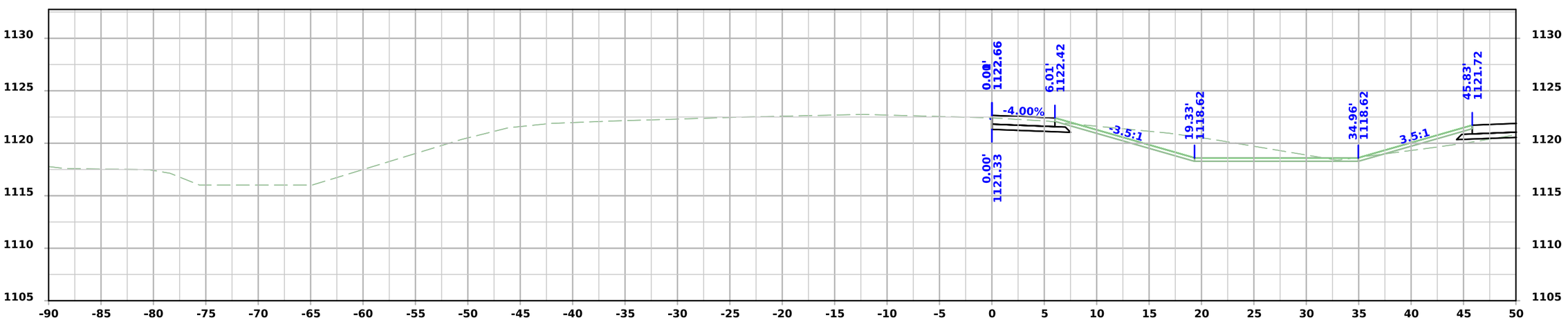
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C80 SB US 75



STA 16+78.19

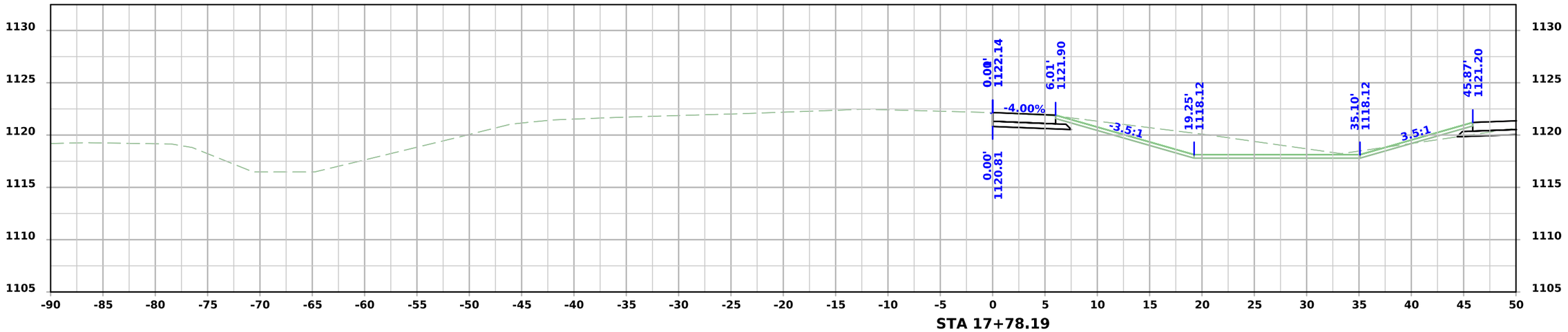


STA 16+28.19

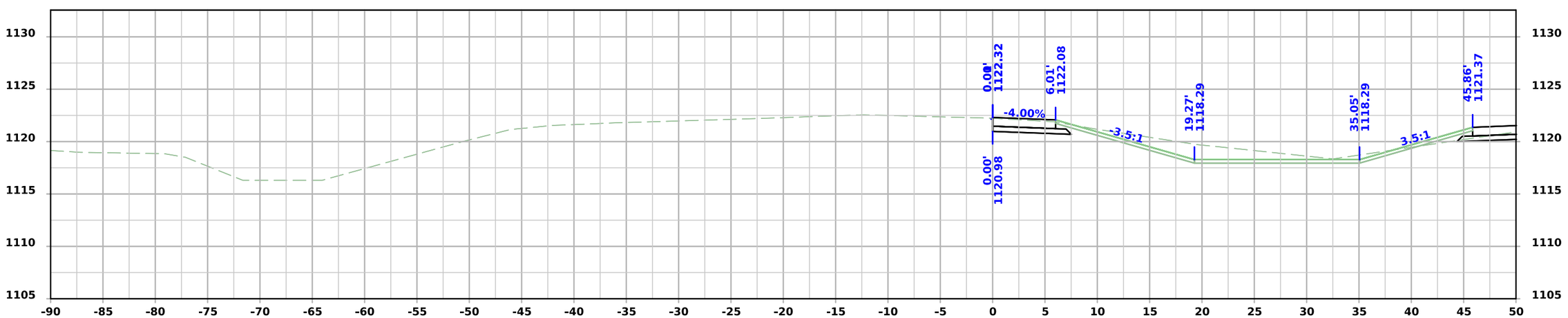
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C80 SB US 75



STA 17+78.19

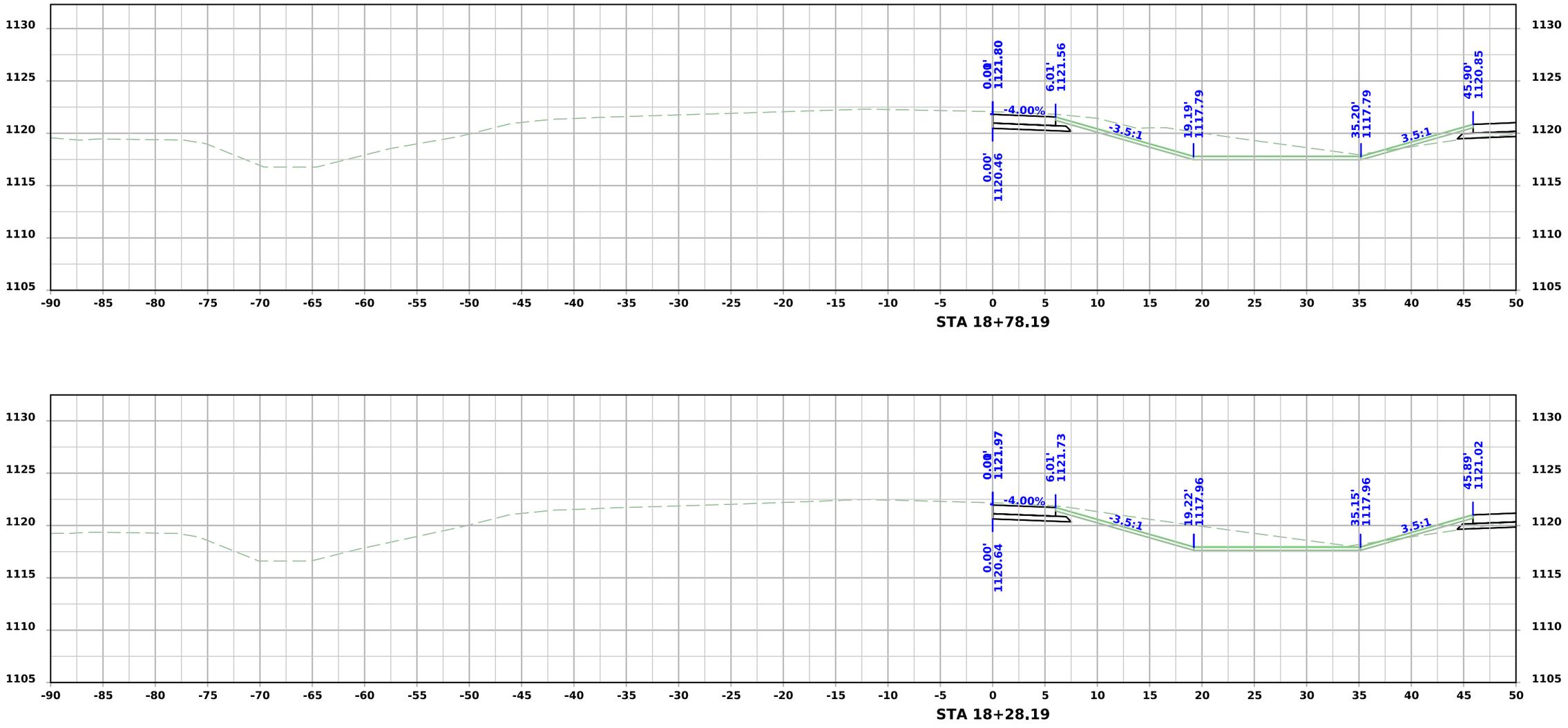


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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.27

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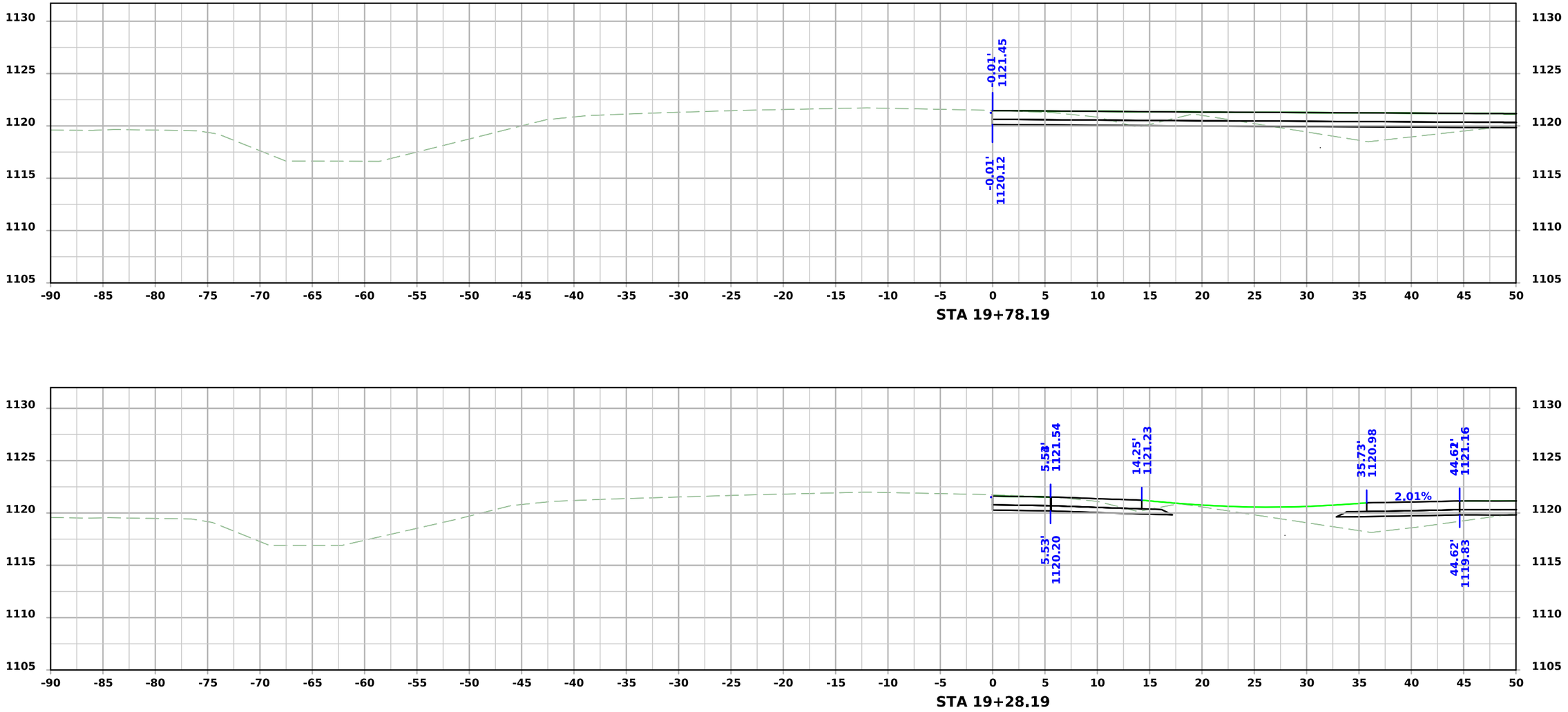
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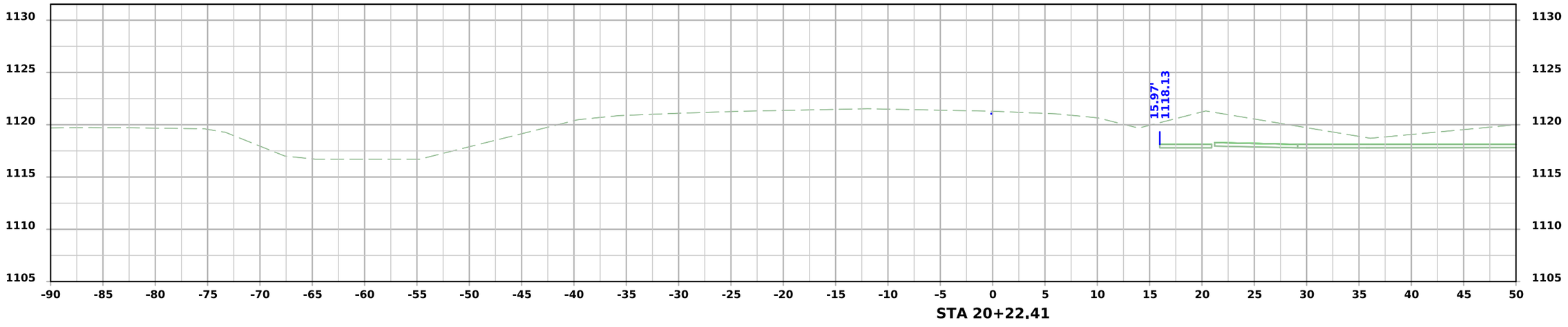
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FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.29

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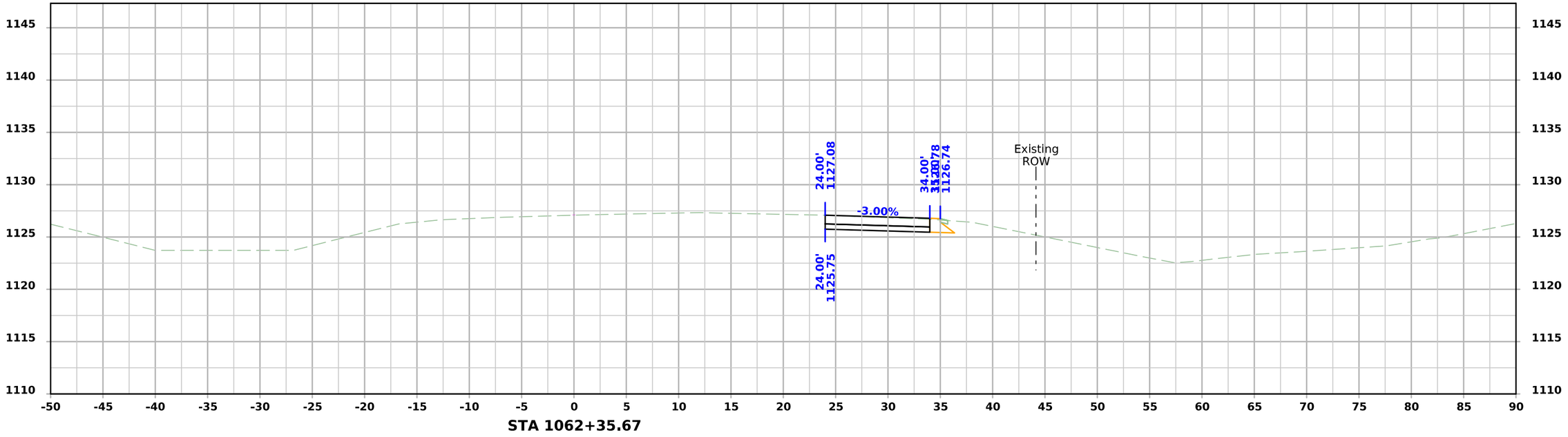
C80 SB US 75



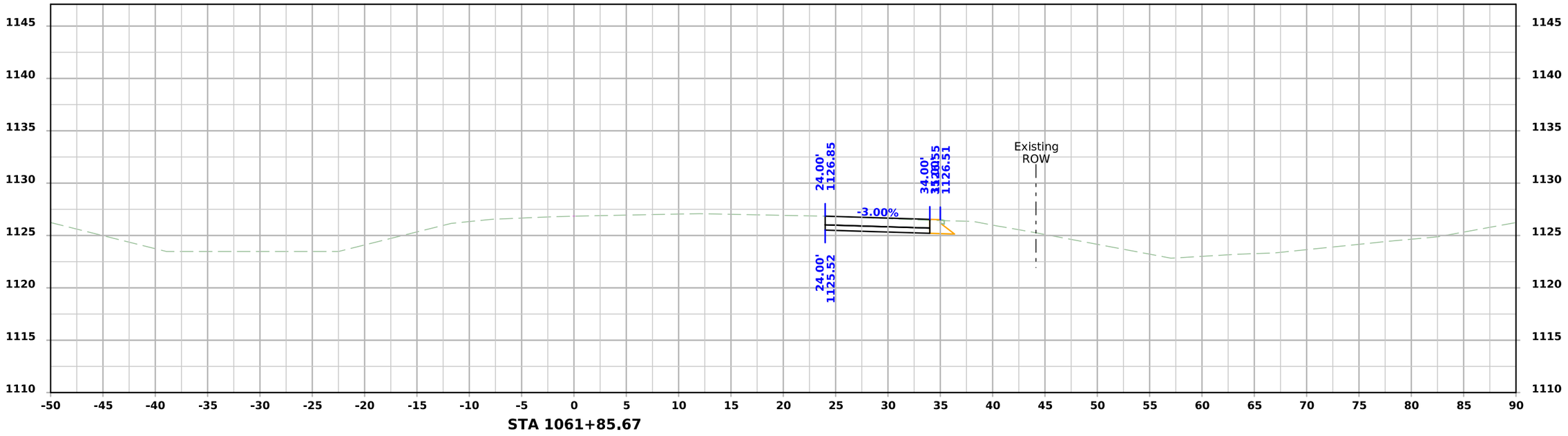
FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.30

11:28:39 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C80 SB.dgn

C70 NB US 75



STA 1062+35.67

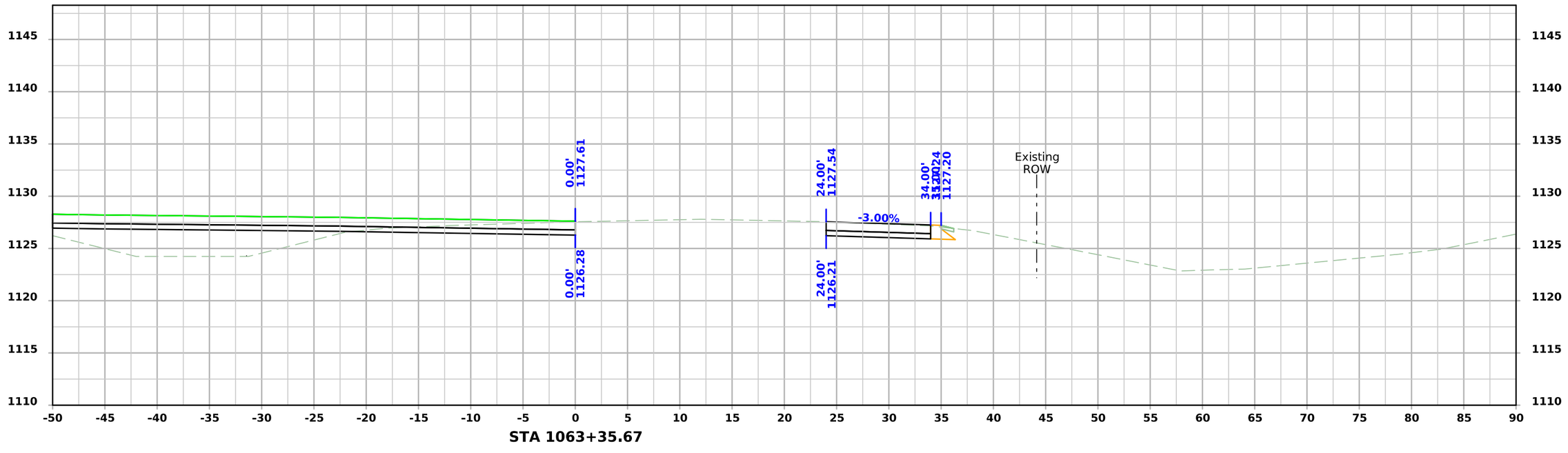


STA 1061+85.67

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.31

11:28:46 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 NB.dgn

C70 NB US 75



STA 1063+35.67

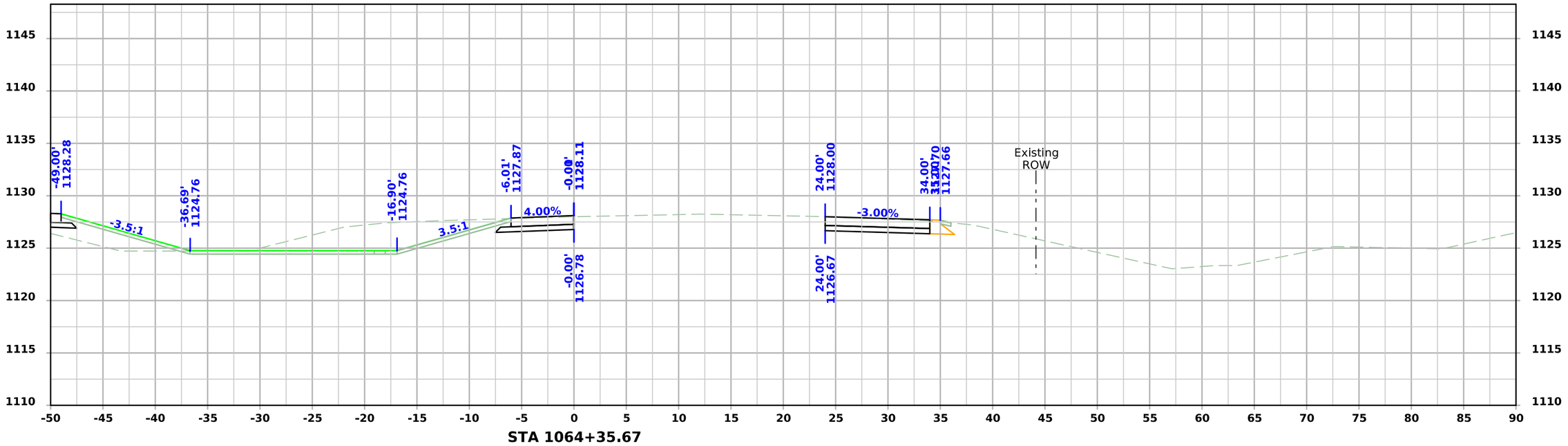


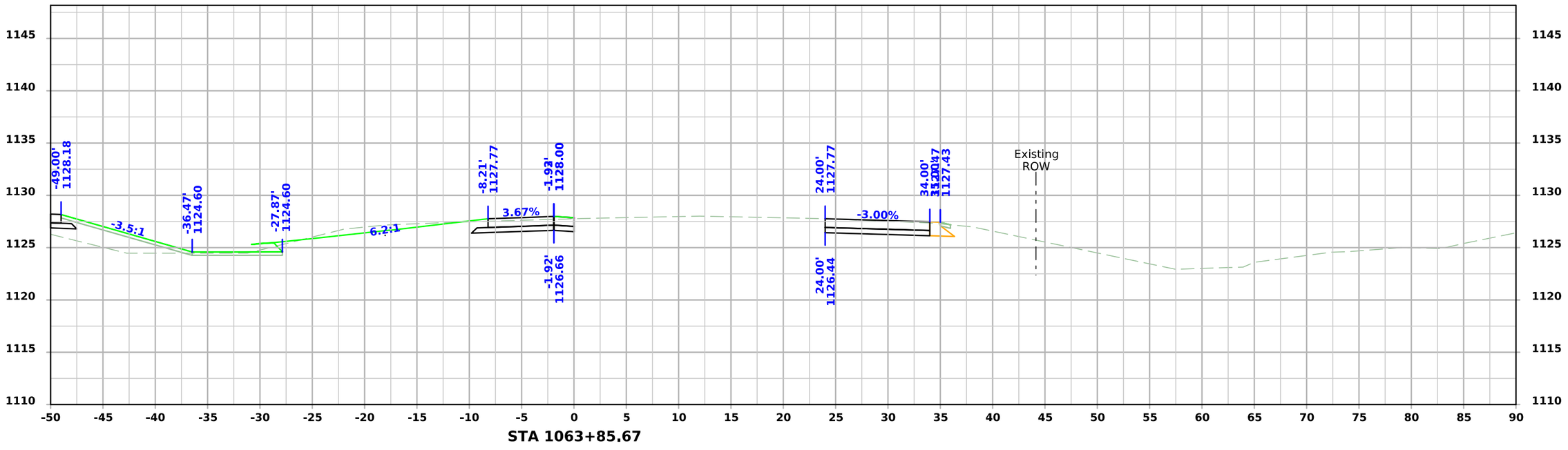
STA 1062+85.67

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.32

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C70 NB US 75

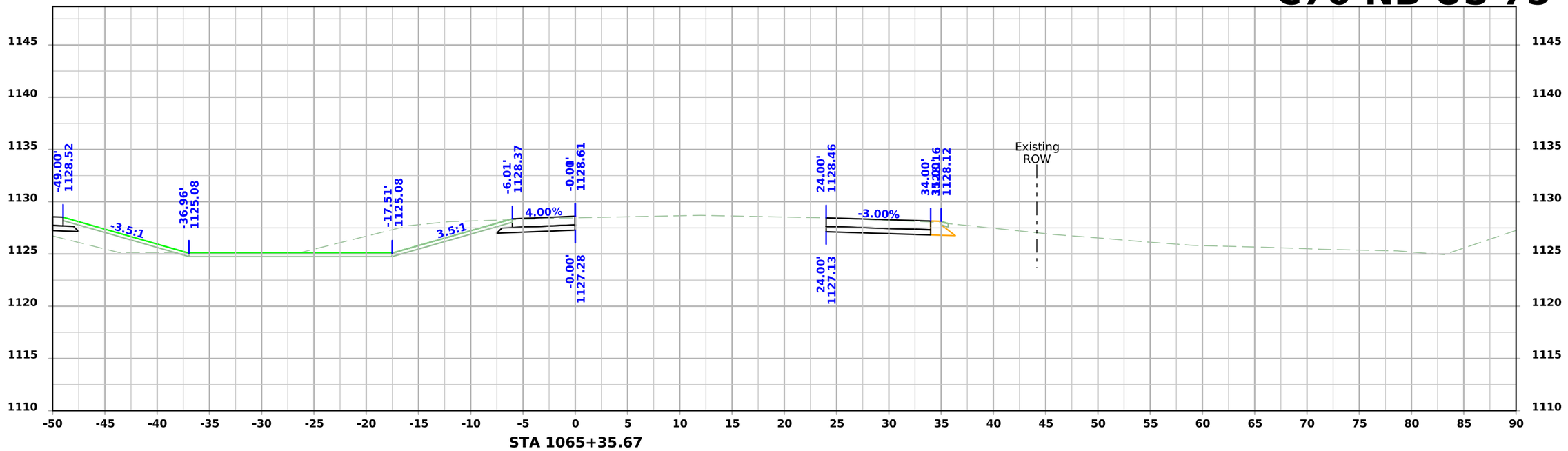


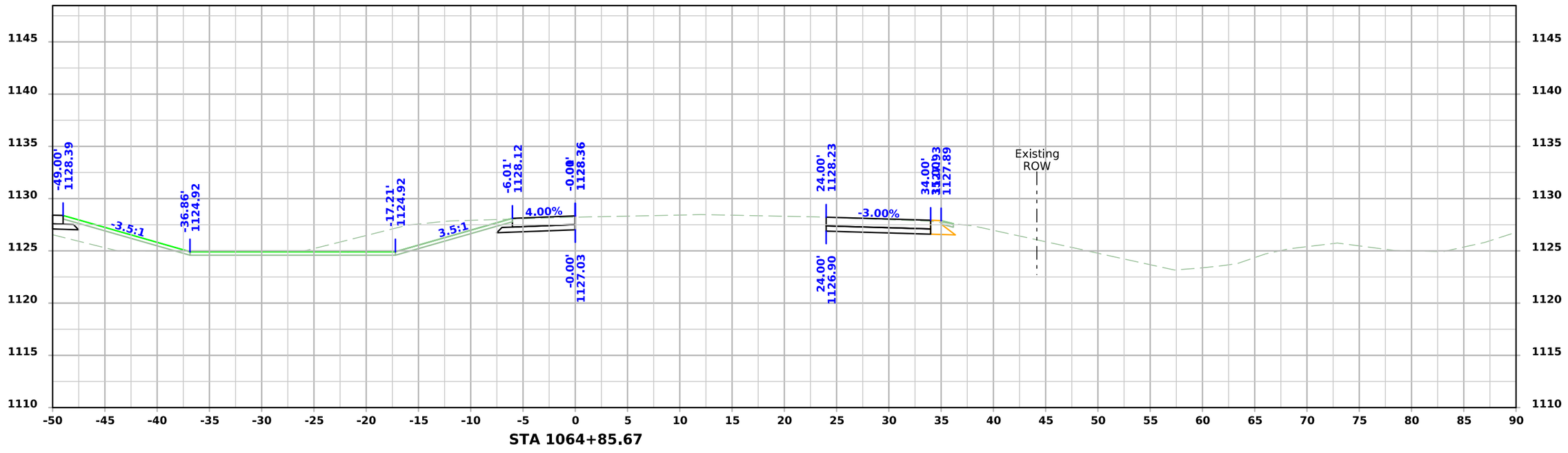


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.33

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C70 NB US 75



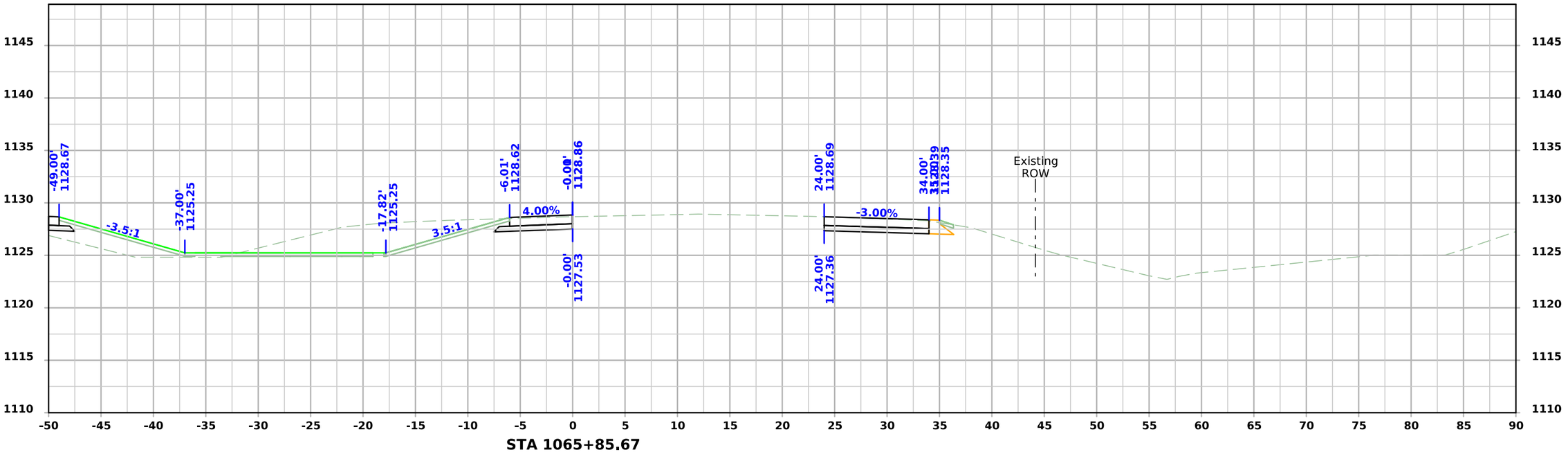


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.34

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C70 NB US 75

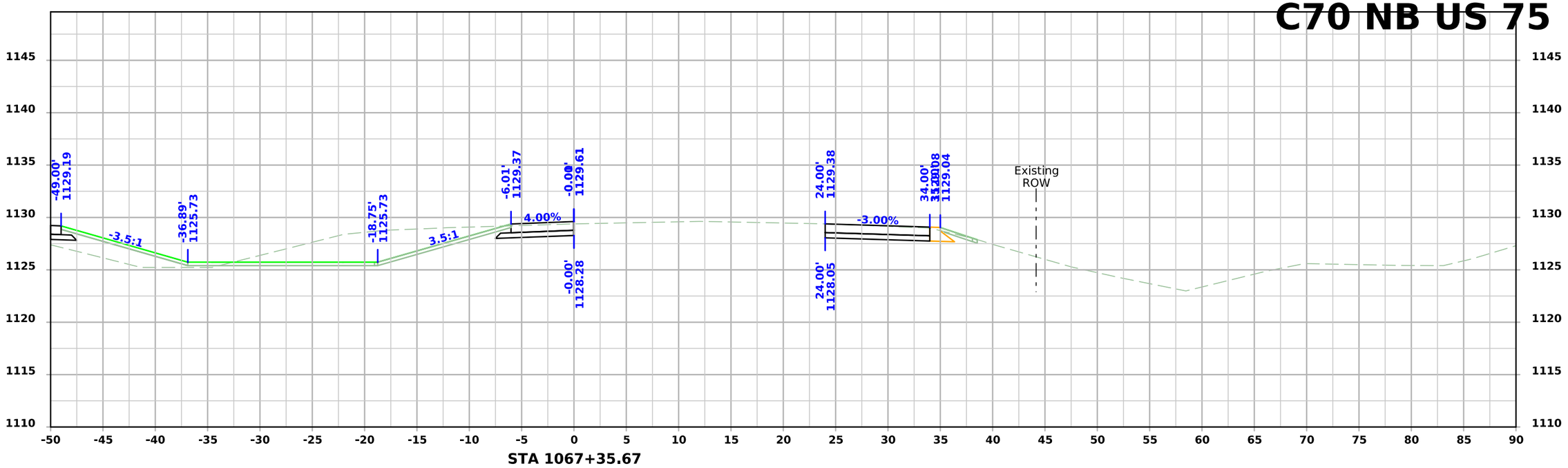


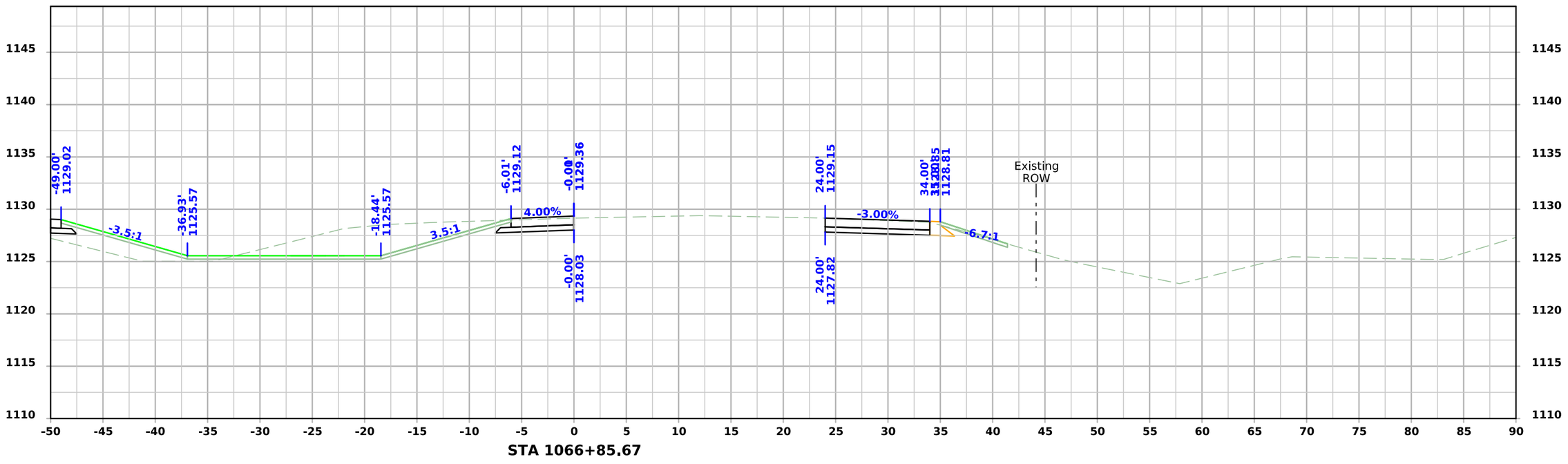


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.35

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C70 NB US 75

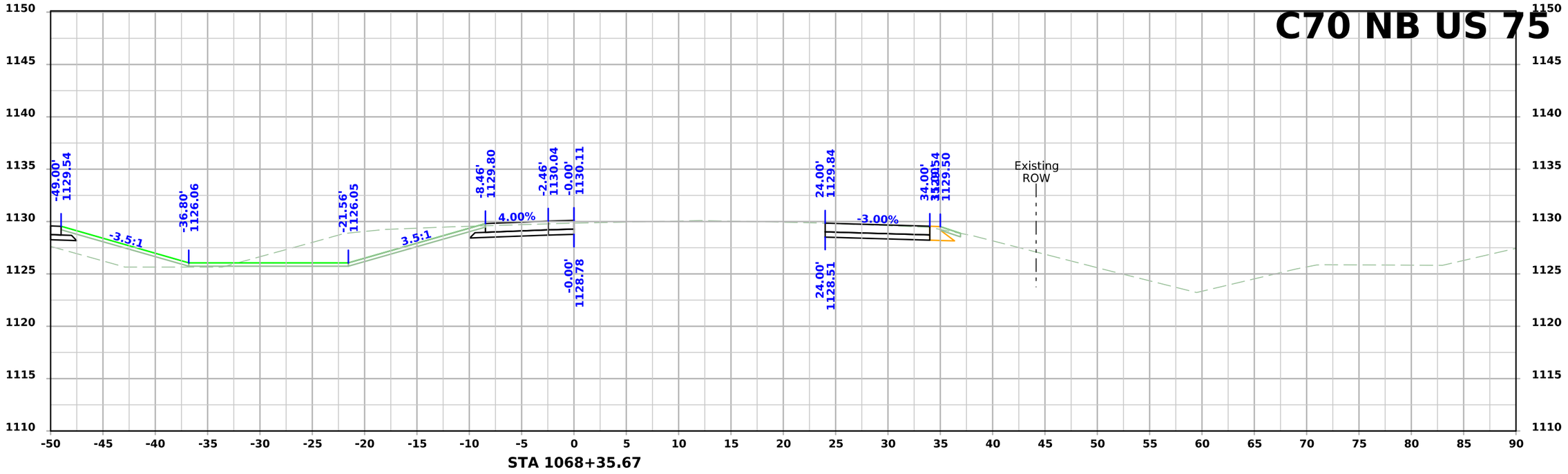


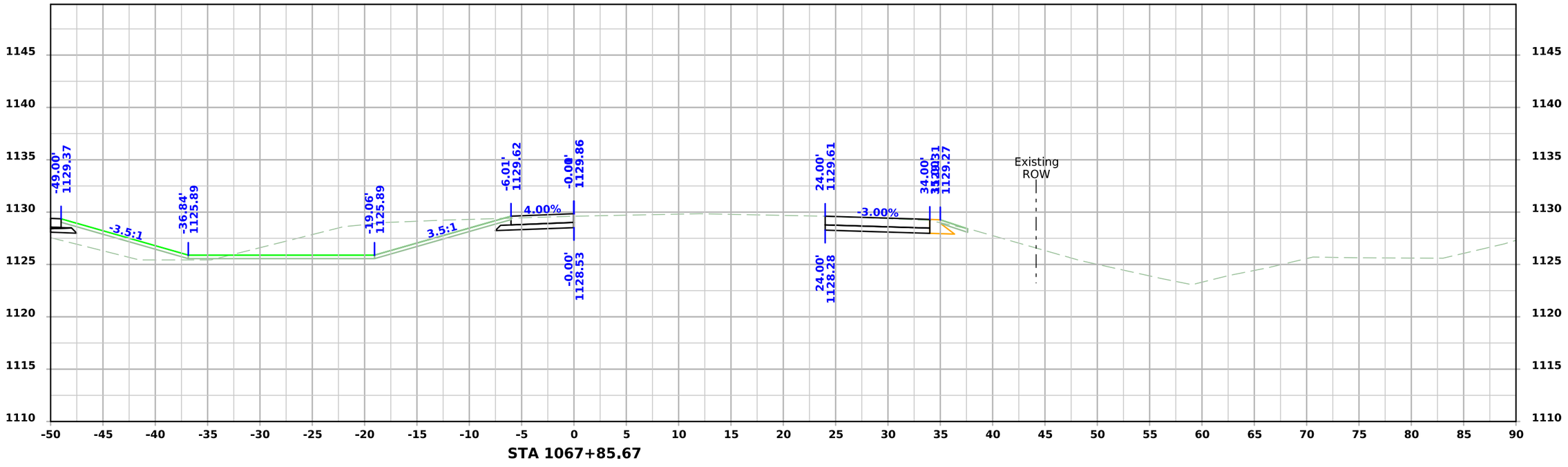


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.36

11:28:51 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 NB.dgn

C70 NB US 75

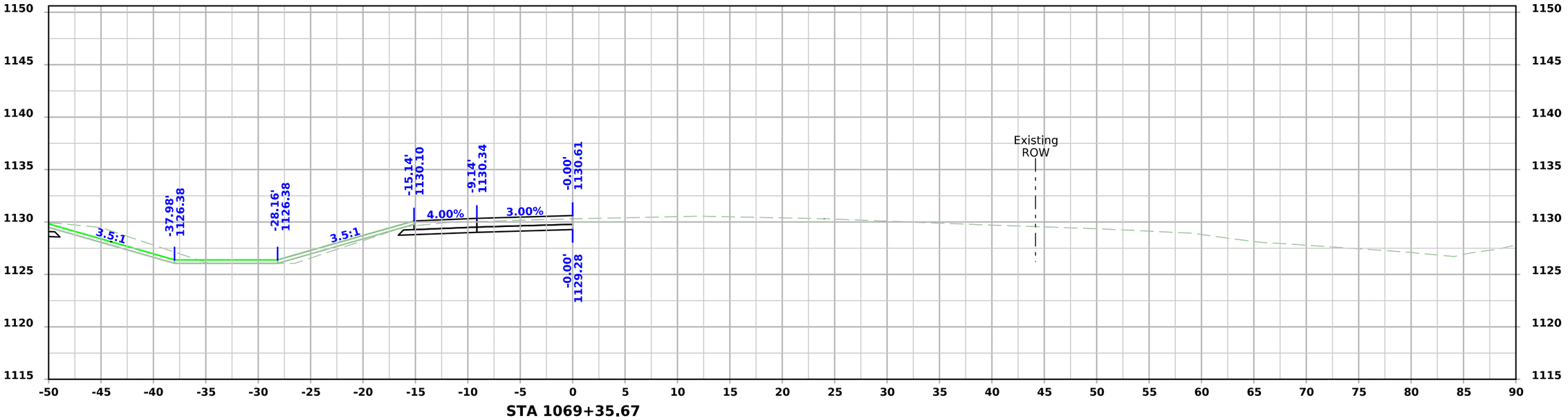


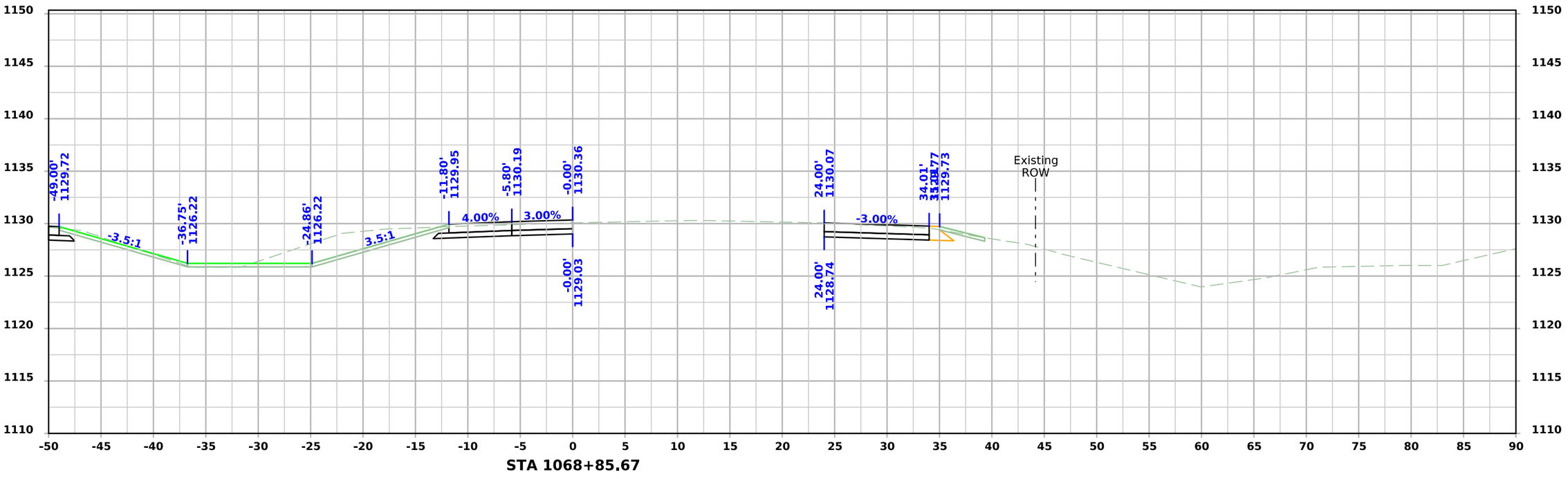


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.37

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C70 NB US 75

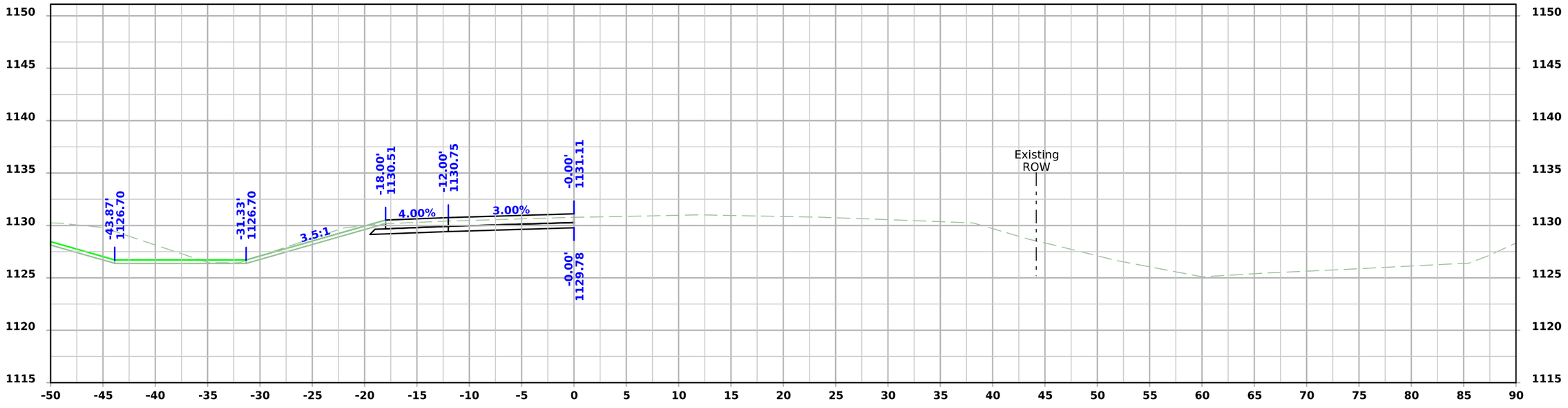


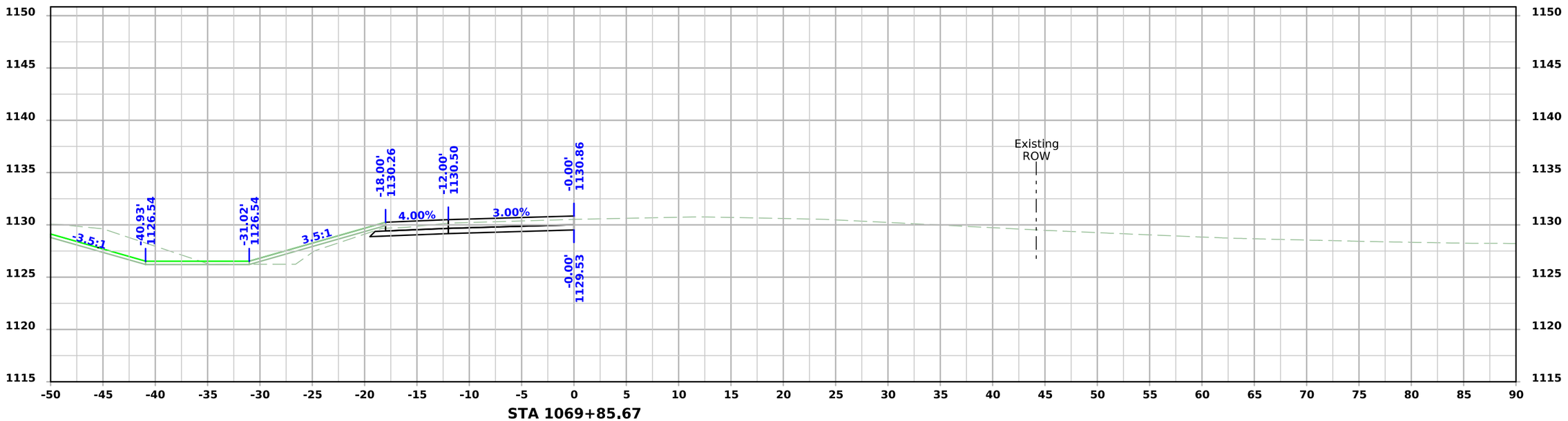


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.38

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C70 NB US 75

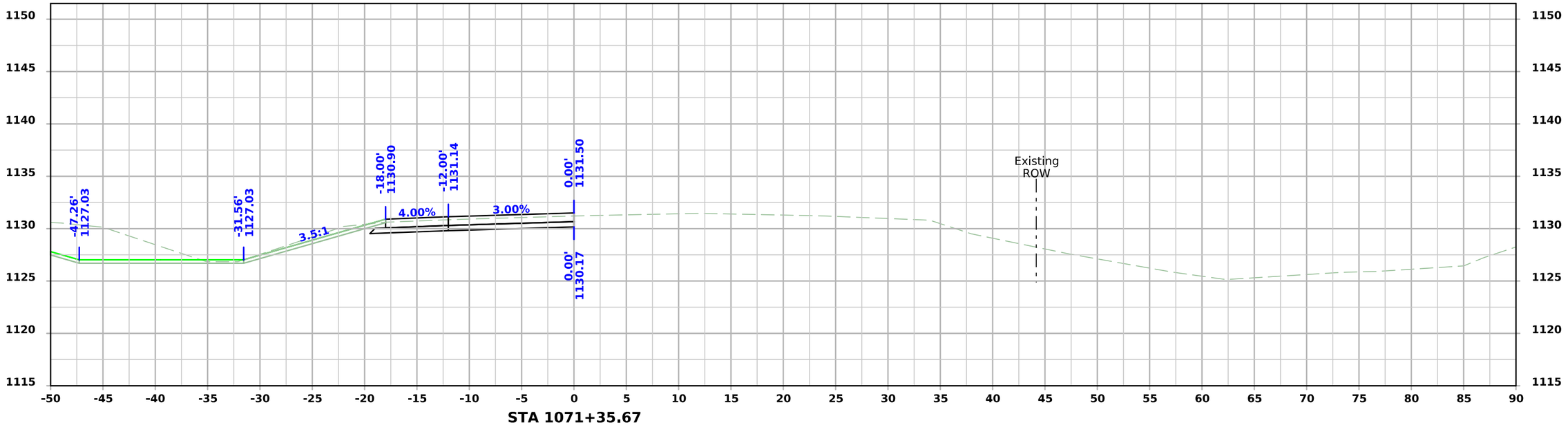


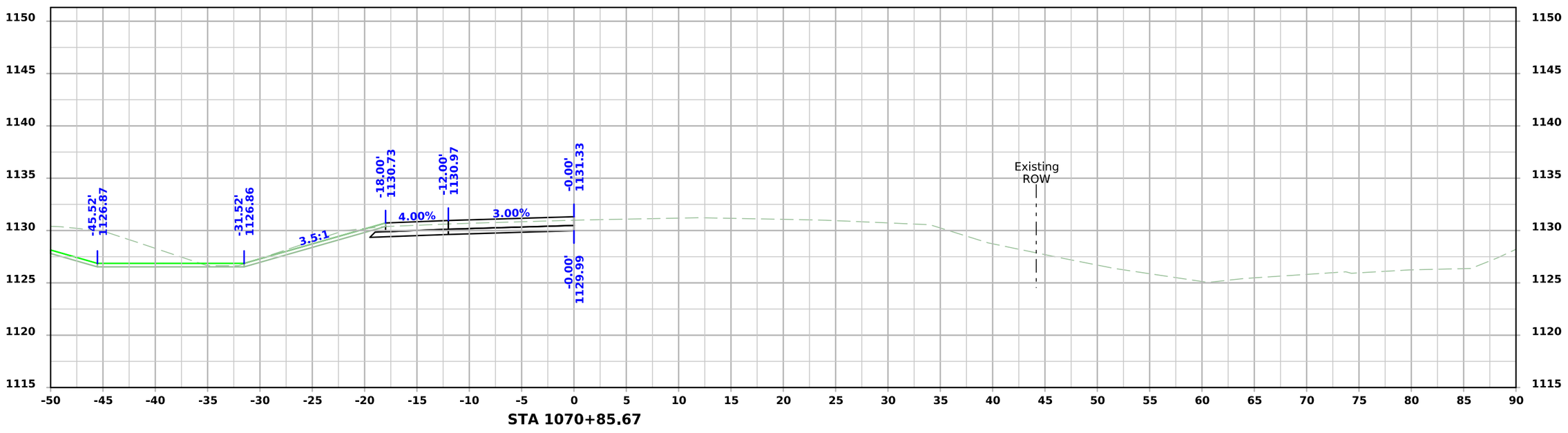


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.39

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C70 NB US 75

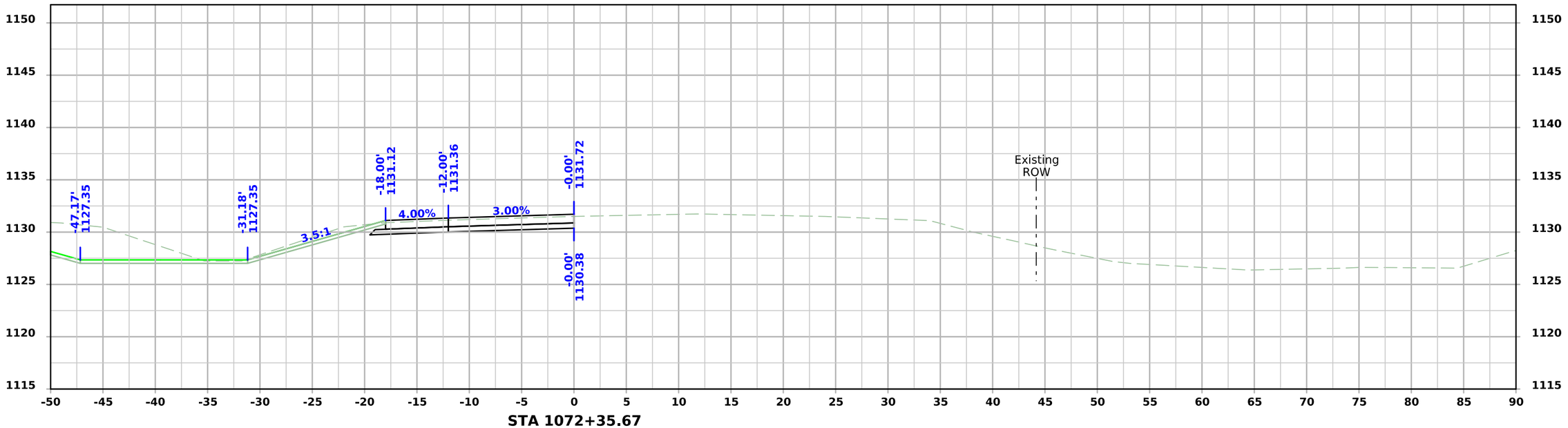


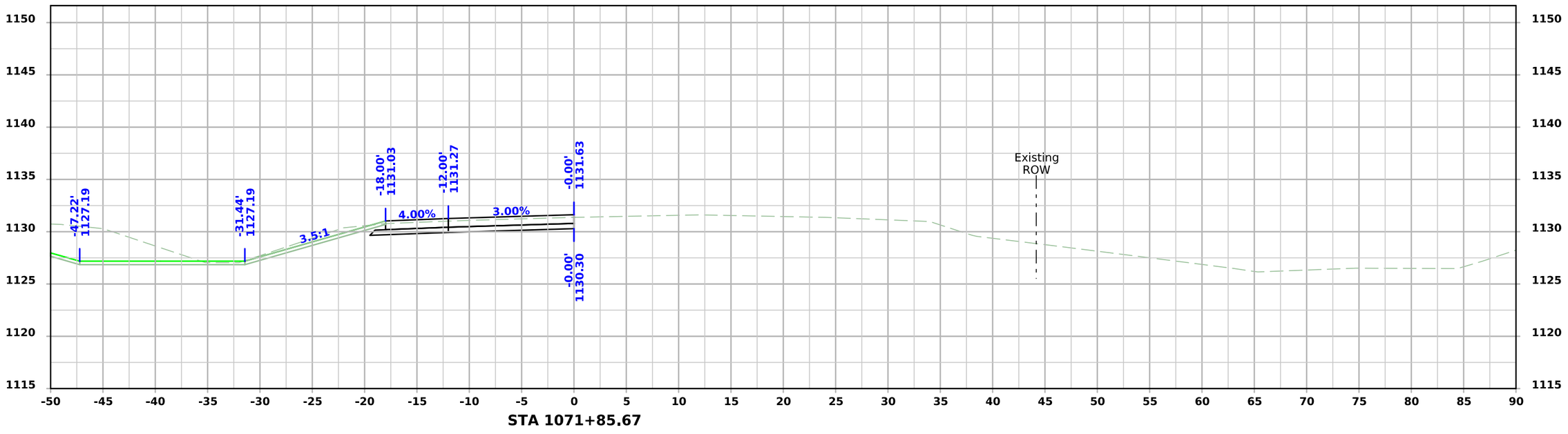


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.40

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C70 NB US 75

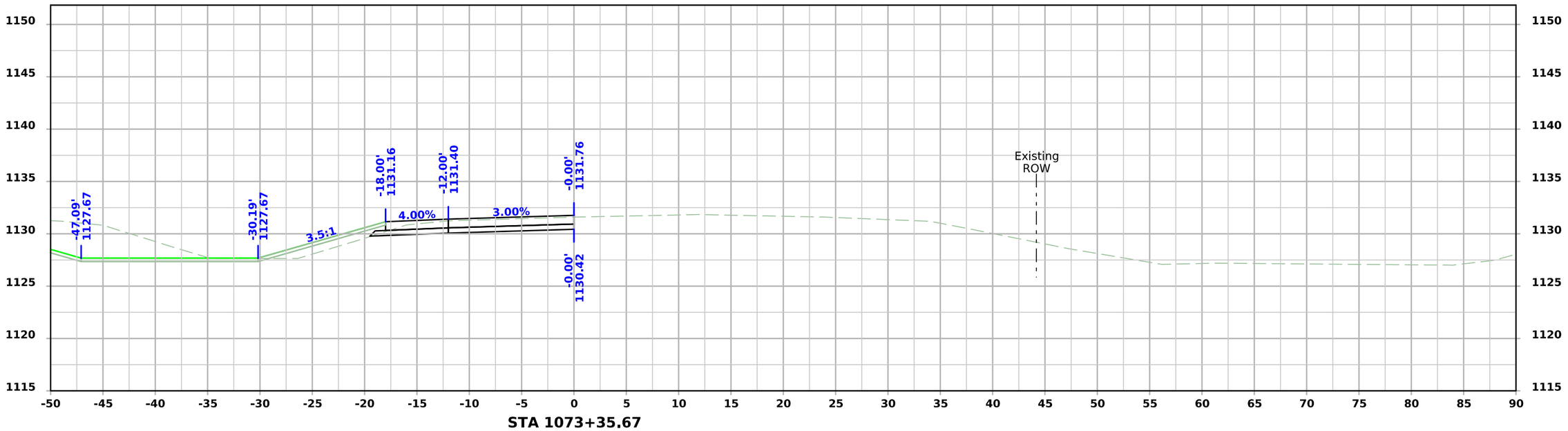


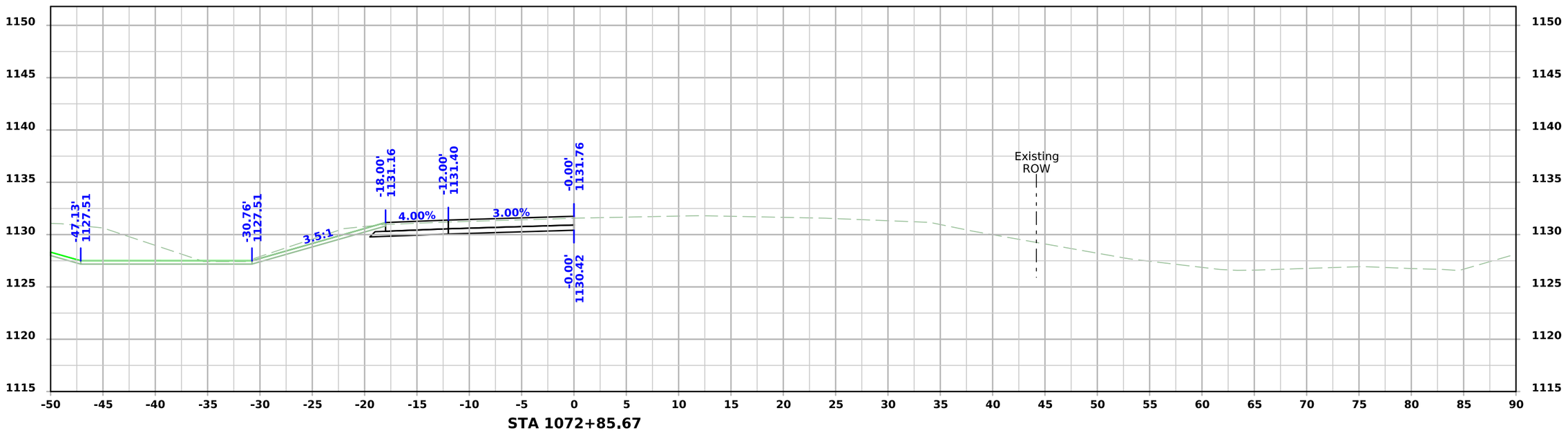


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.41

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C70 NB US 75

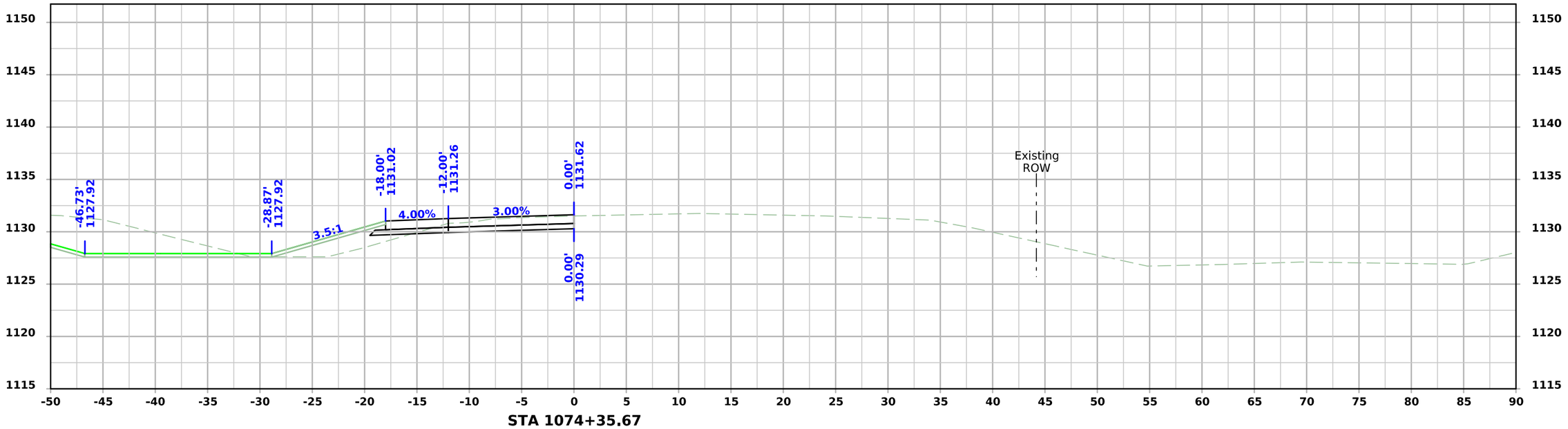


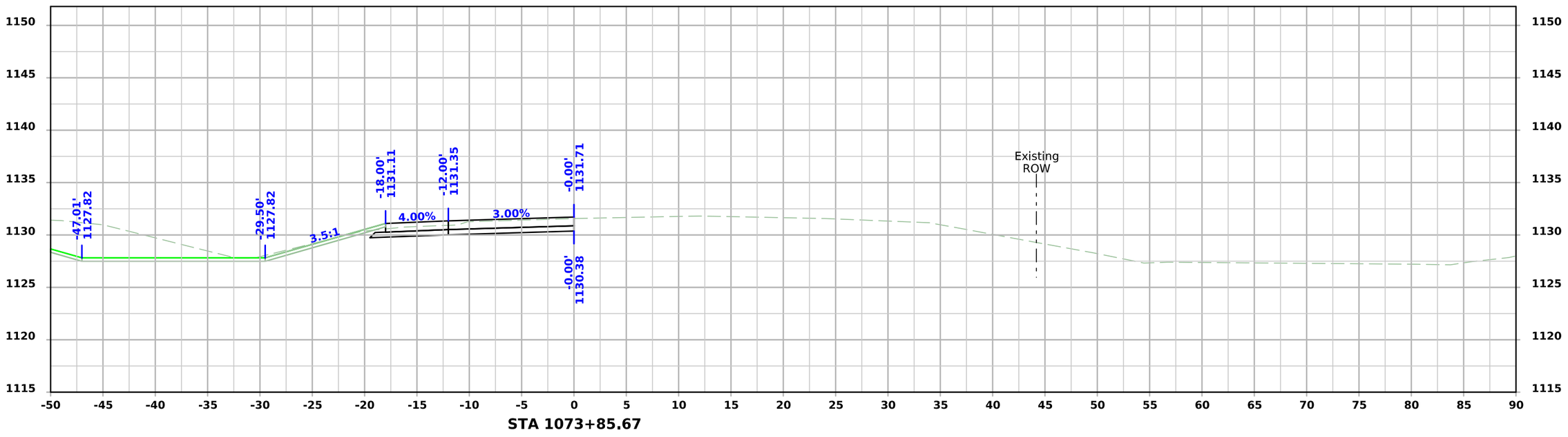


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.42

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C70 NB US 75

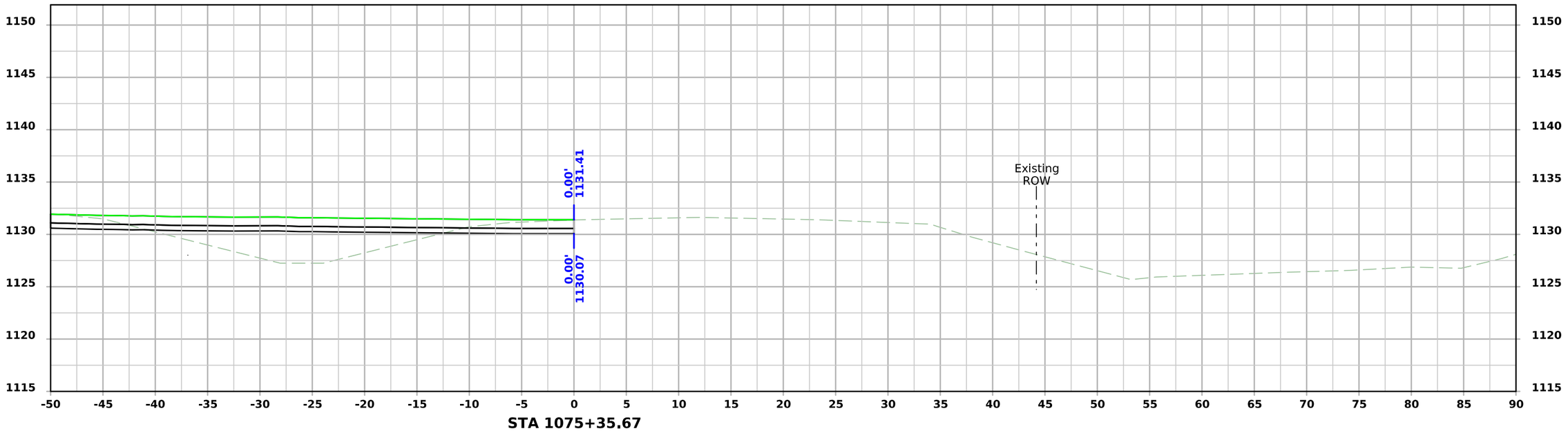


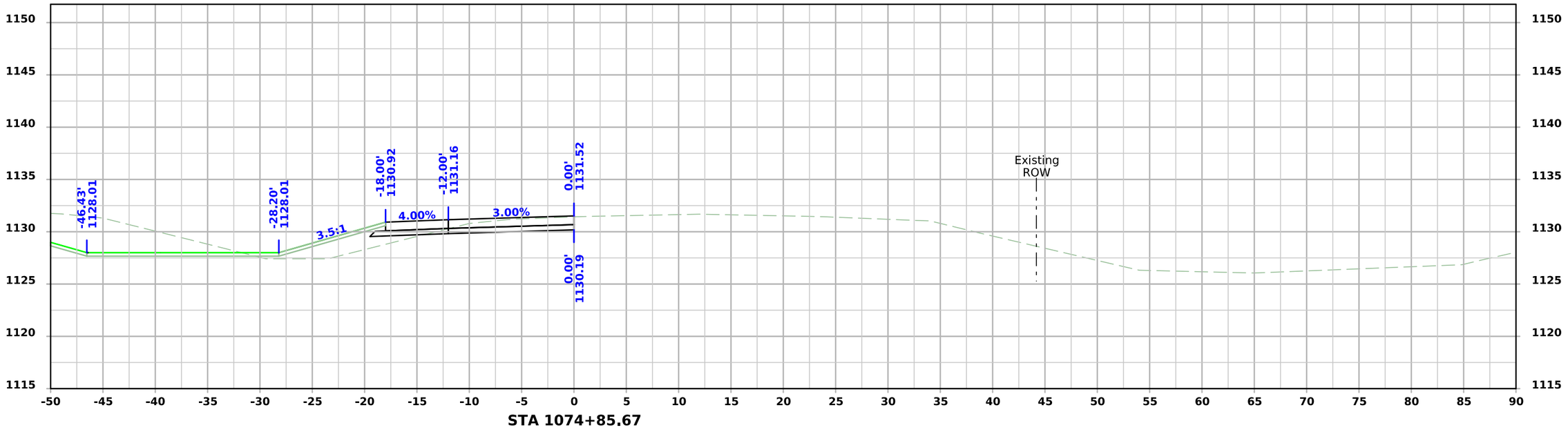


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.43

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C70 NB US 75

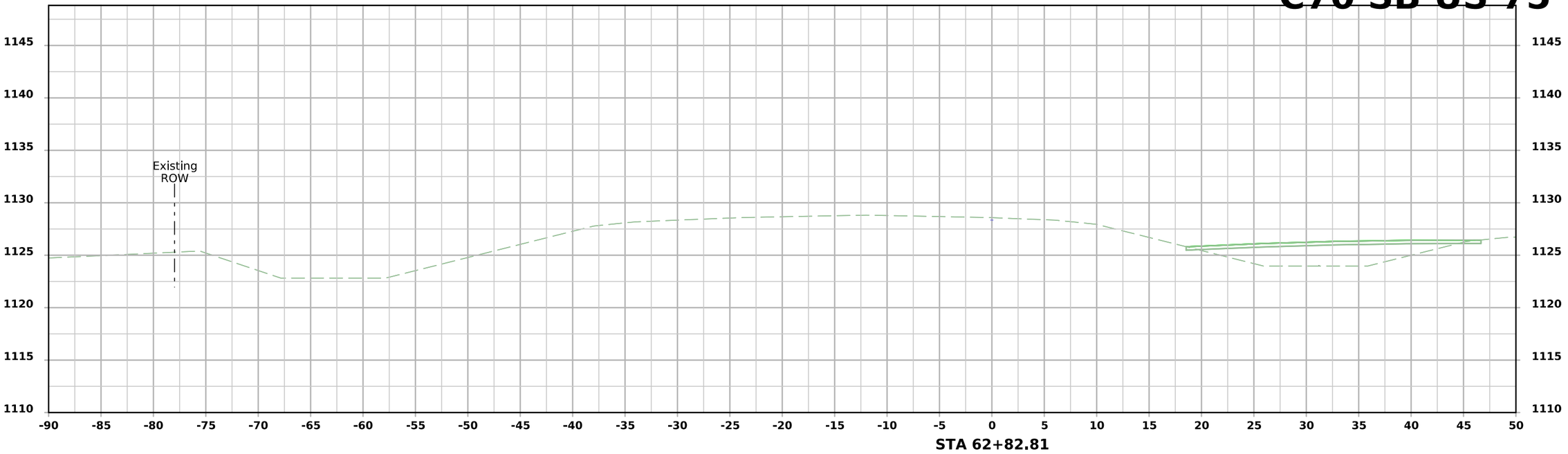


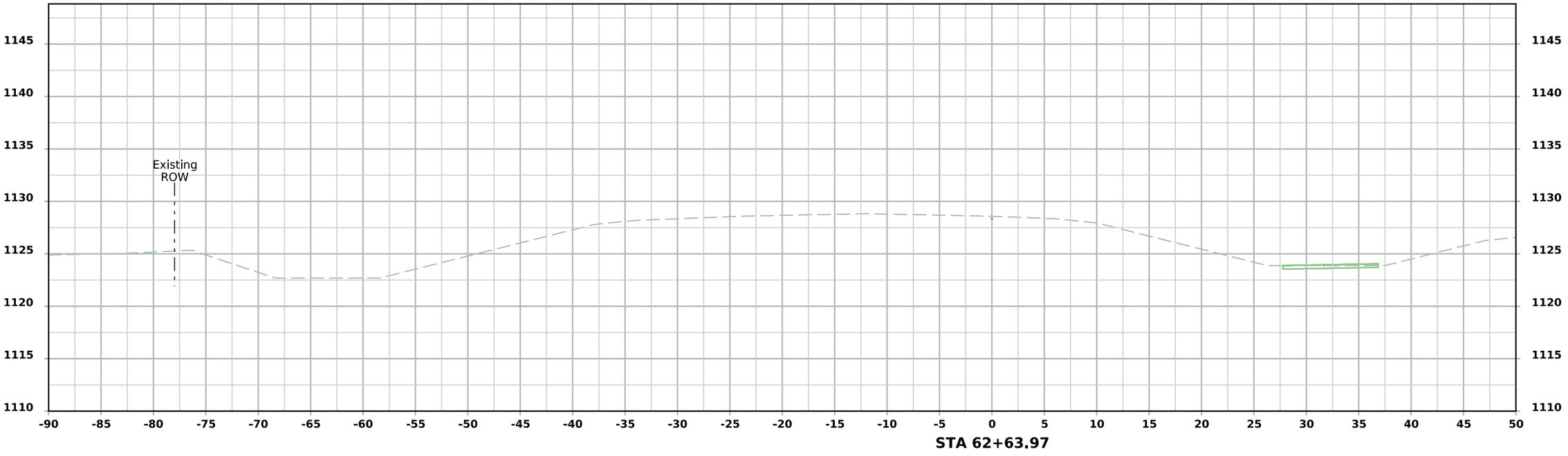


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.44

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C70 SB US 75

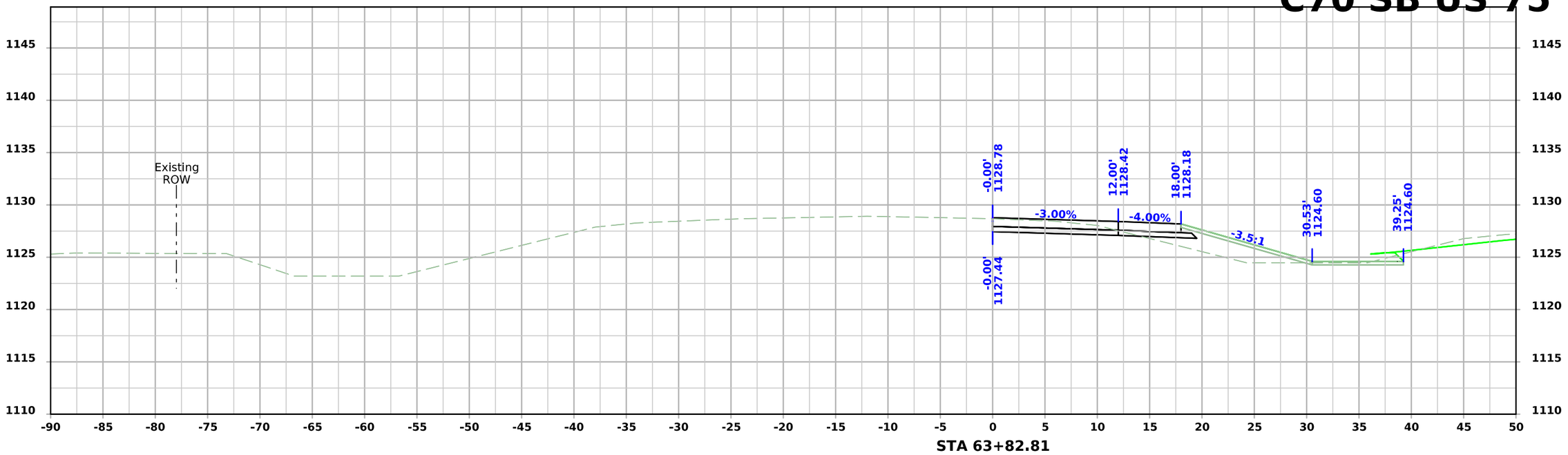




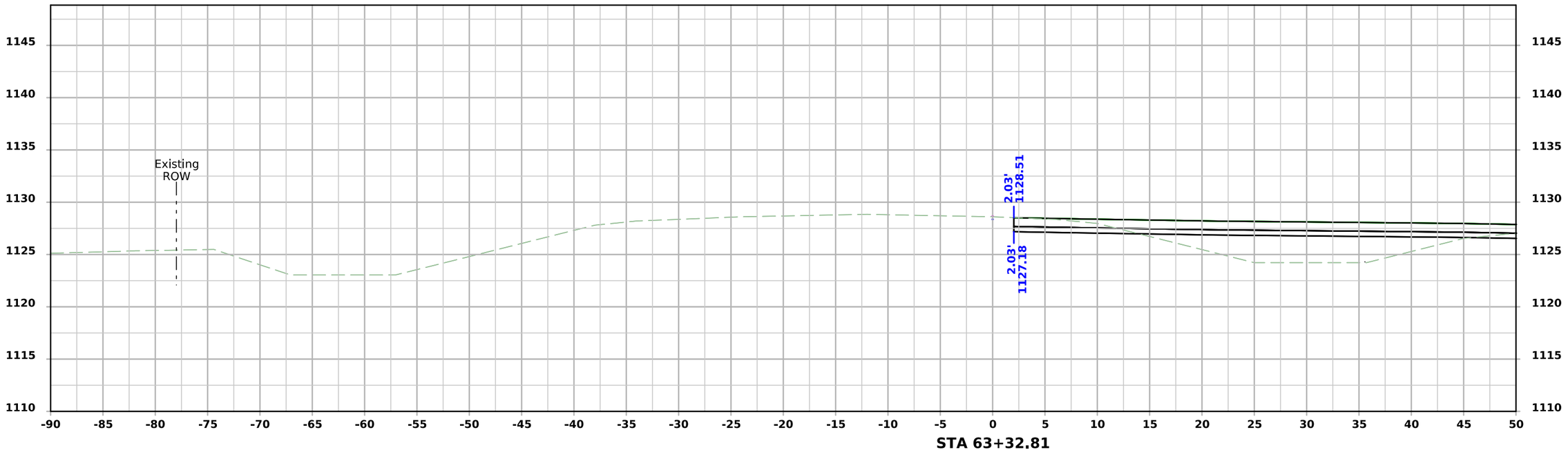
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C70 SB US 75



STA 63+82.81

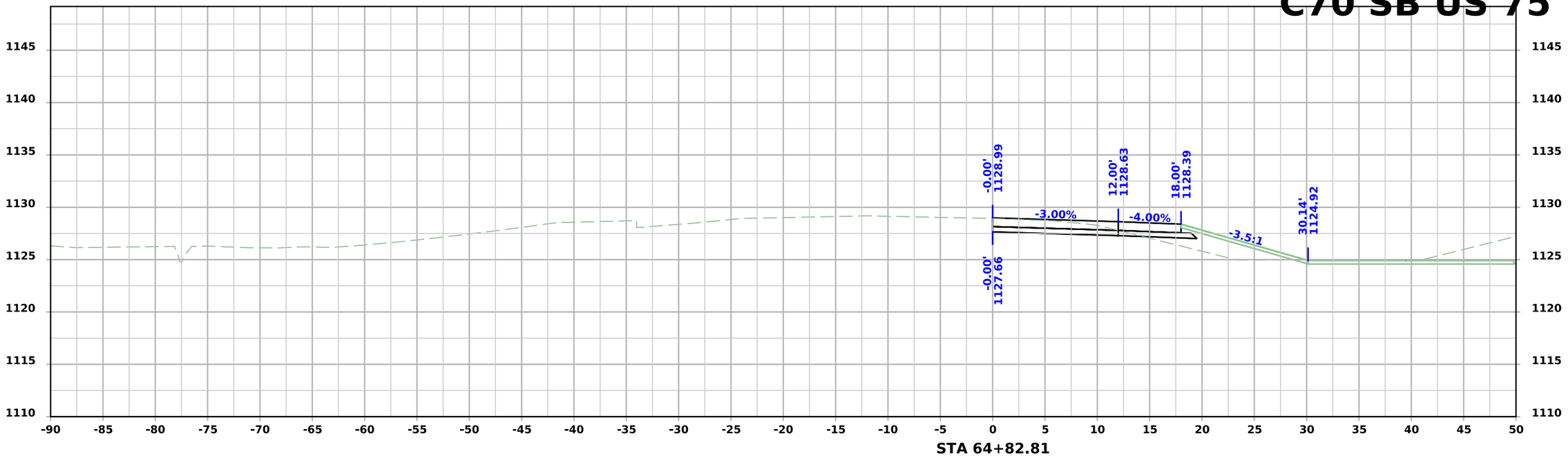


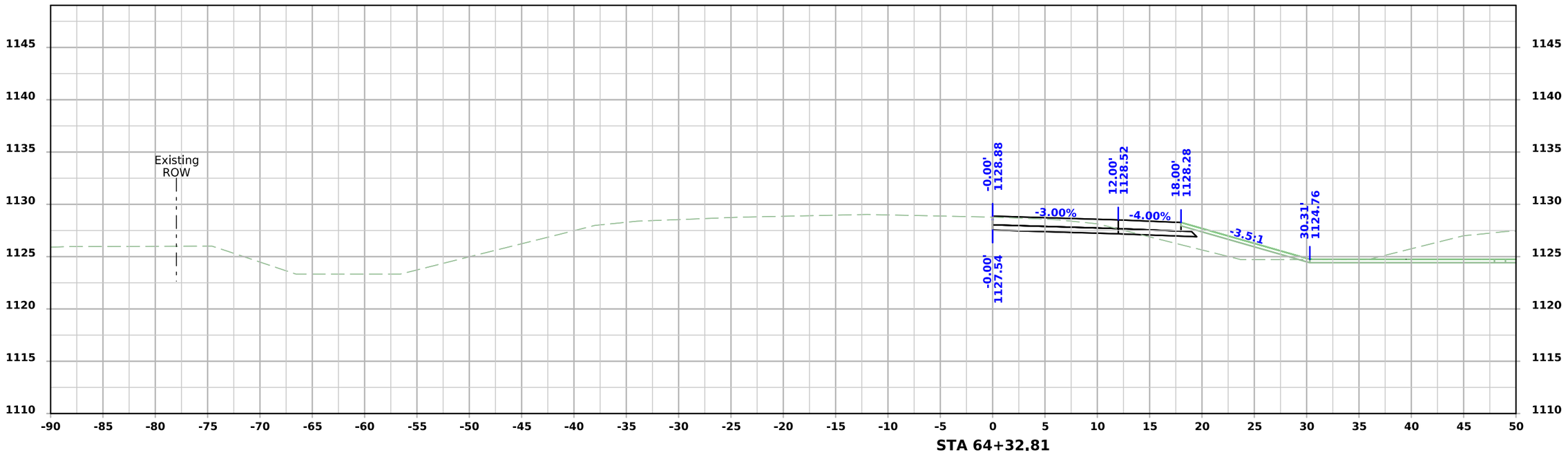
STA 63+32.81

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.46

11:29:08 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 SB.dgn

C70 SB US 75

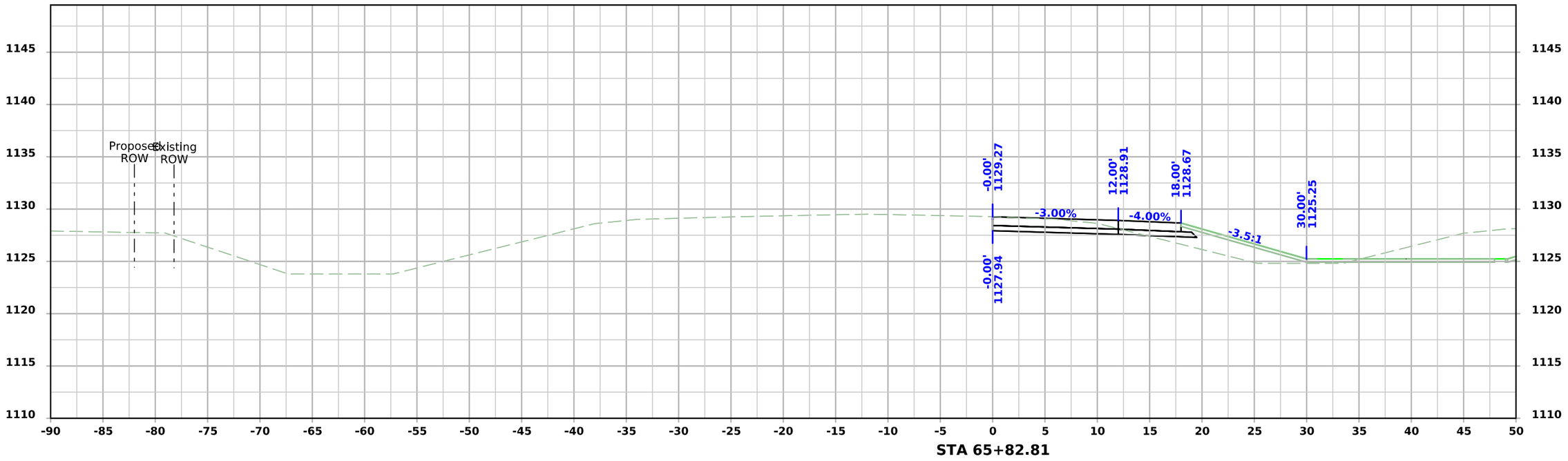




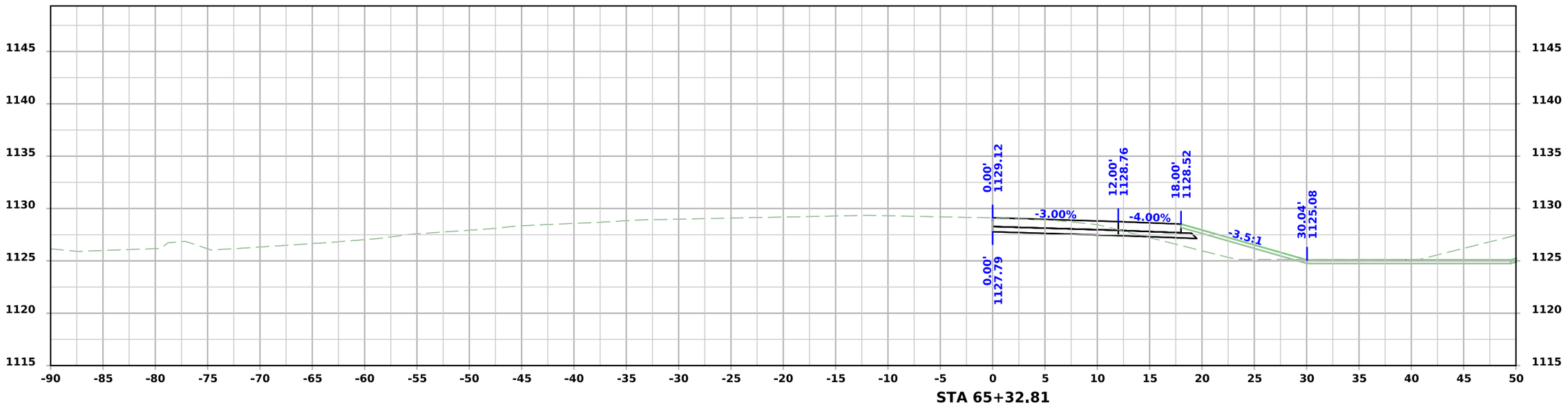
FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.47

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C70 SB US 75



STA 65+82.81

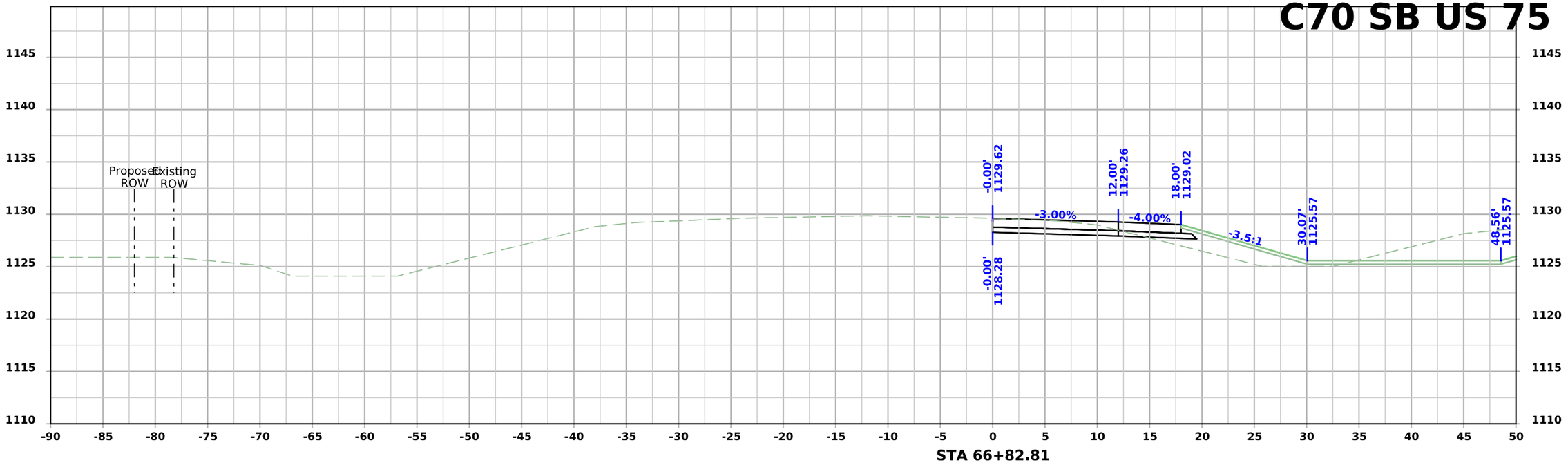


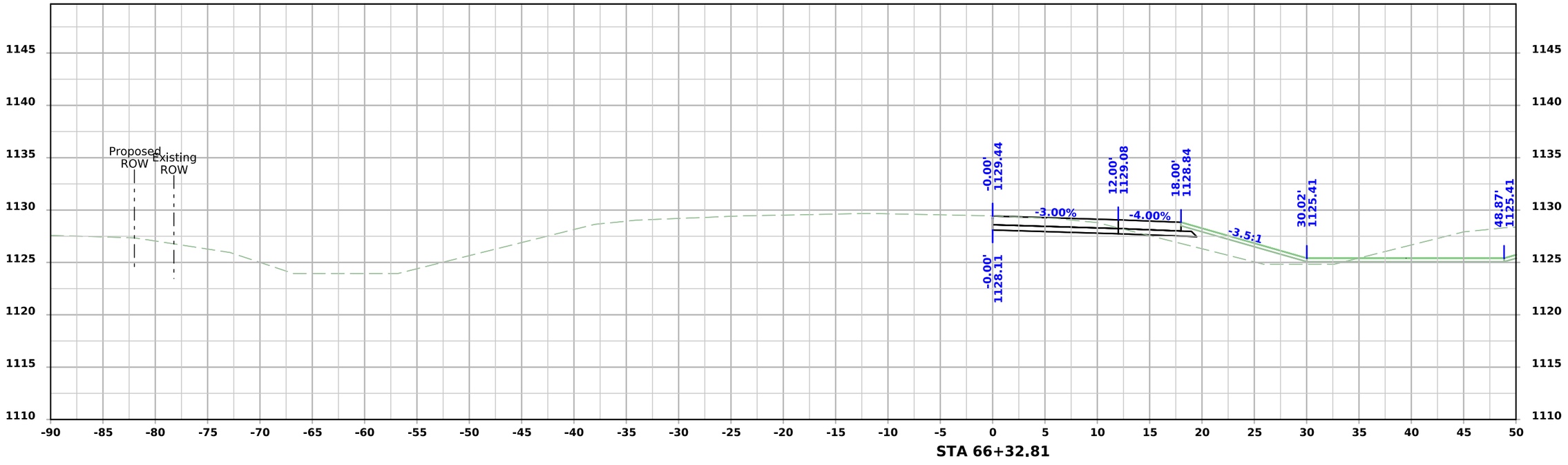
STA 65+32.81

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.48

11:29:10 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 SB.dgn

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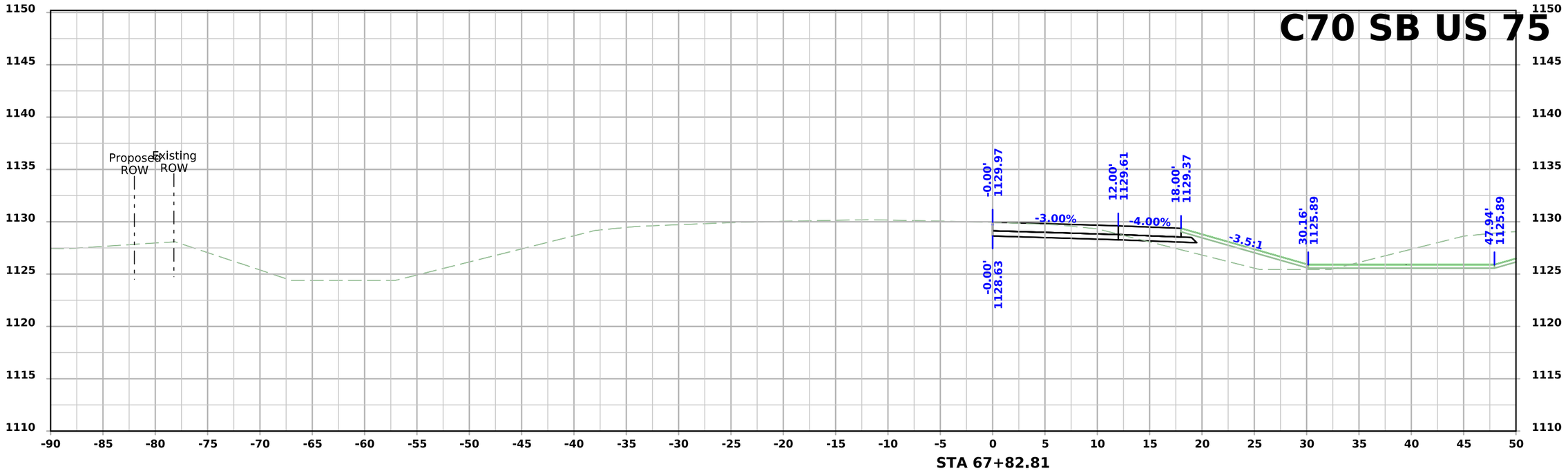


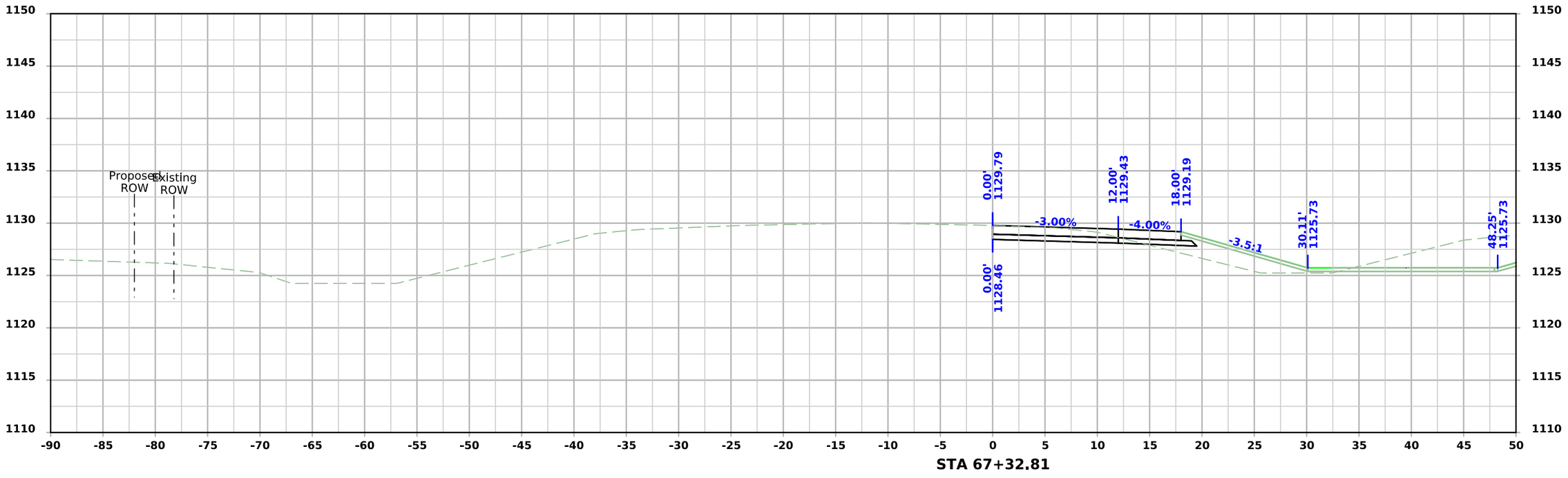


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.49

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C70 SB US 75

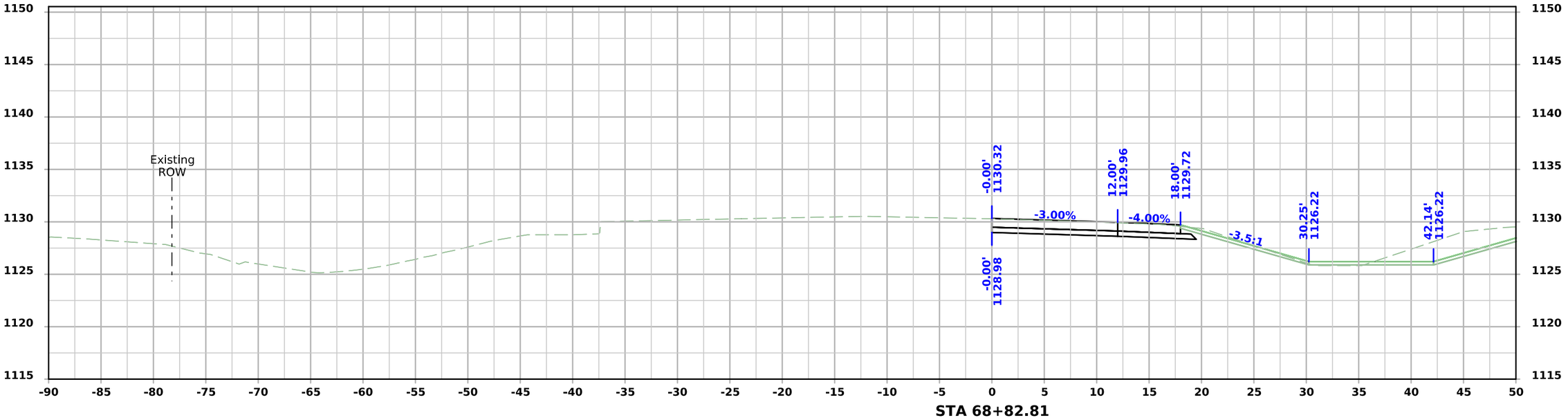


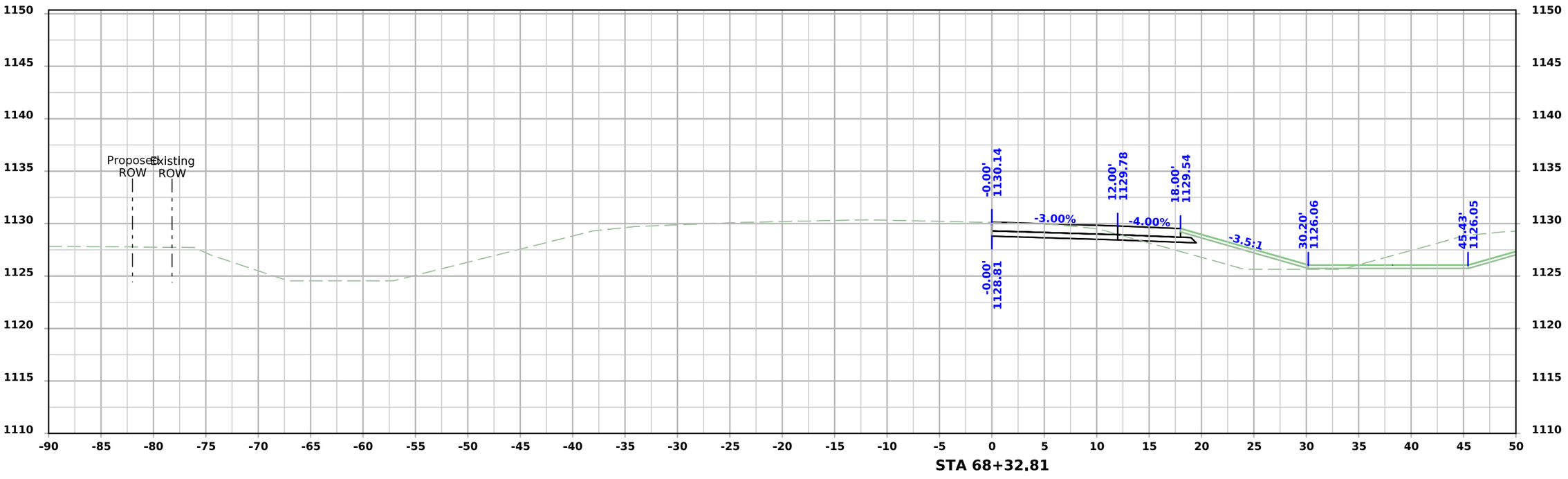


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.50

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C70 SB US 75

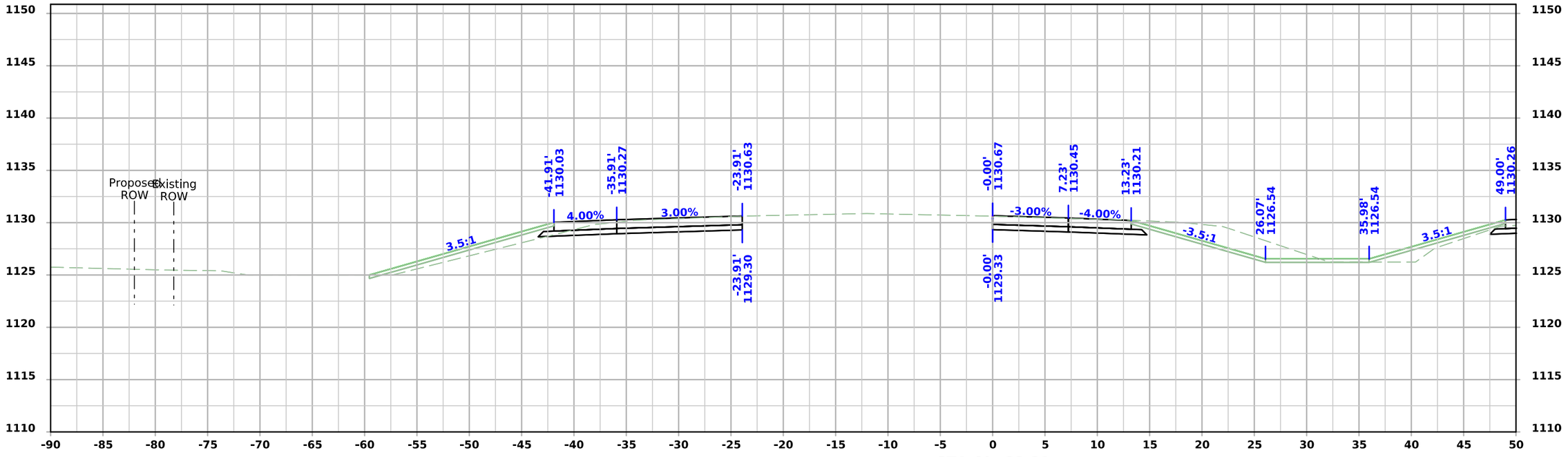


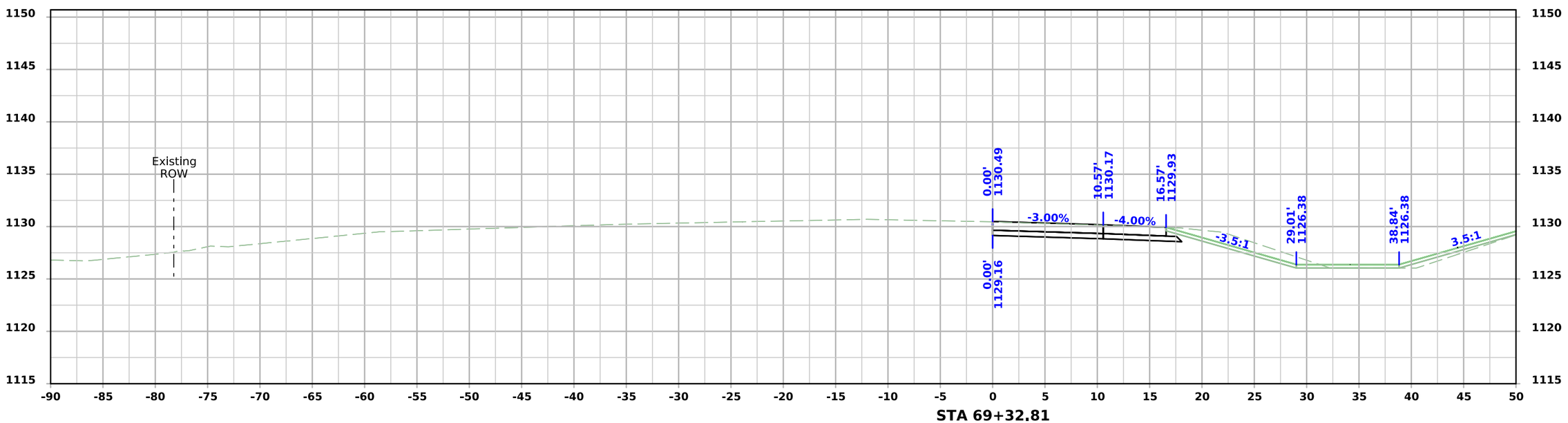


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.51

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C70 SB US 75

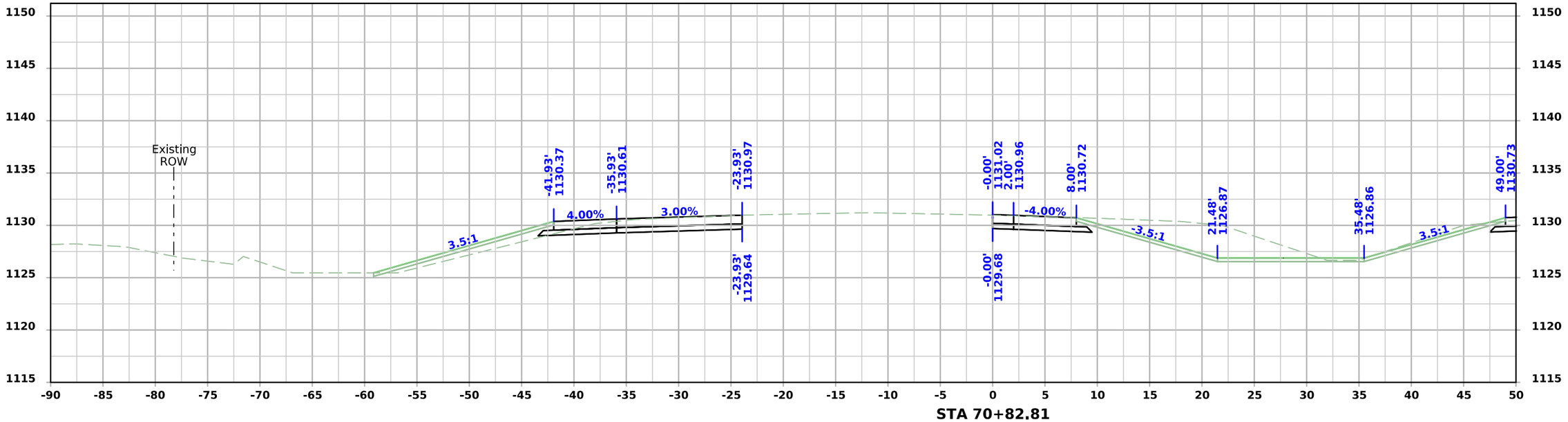


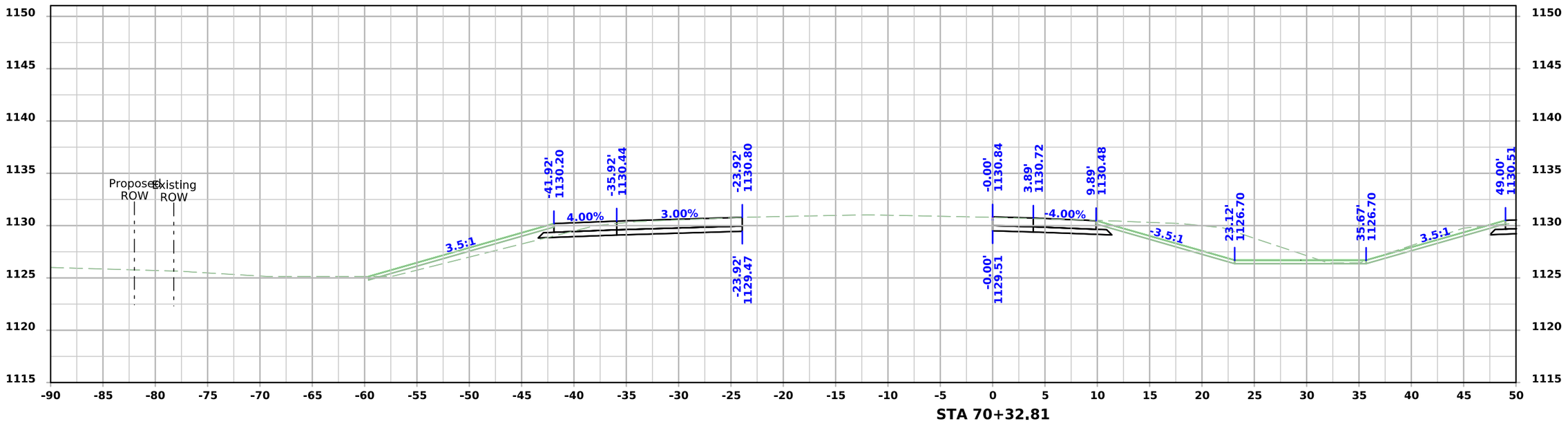


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.52

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C70 SB US 75

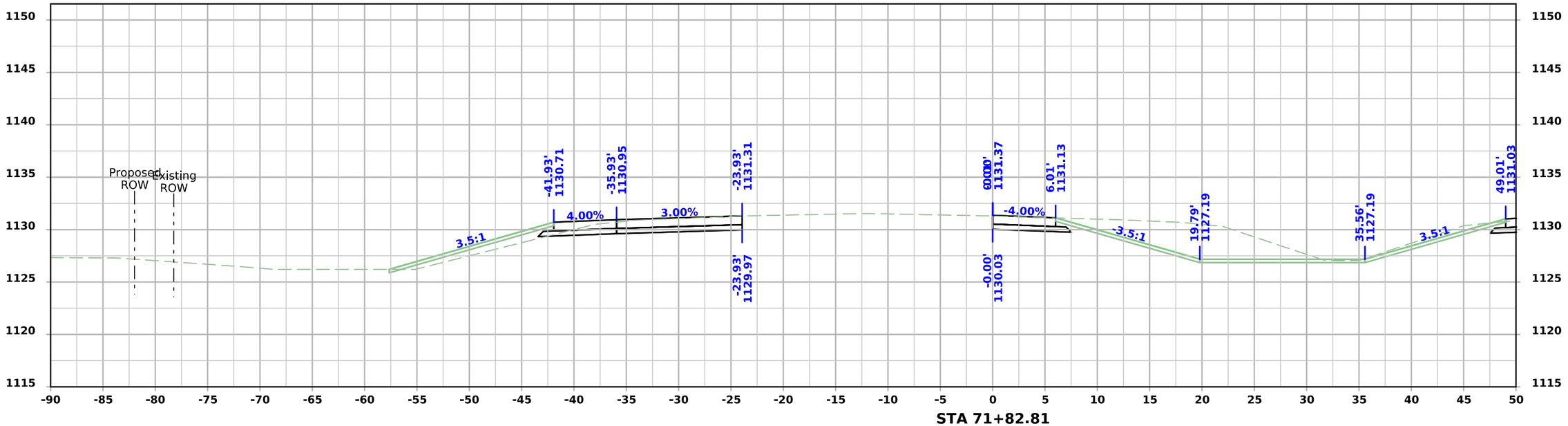


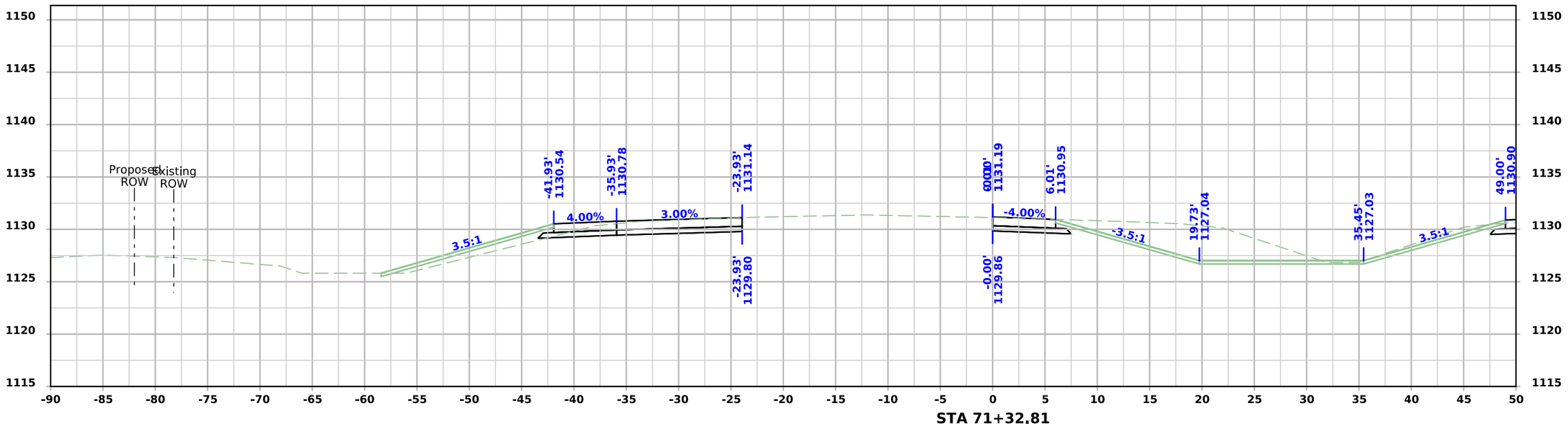


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.53

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C70 SB US 75

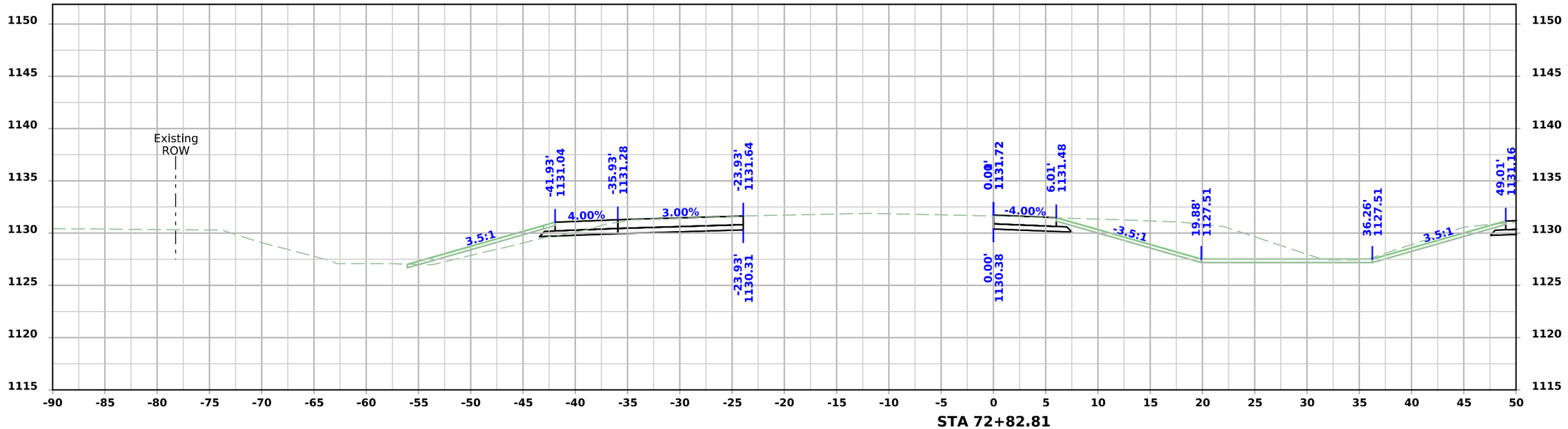


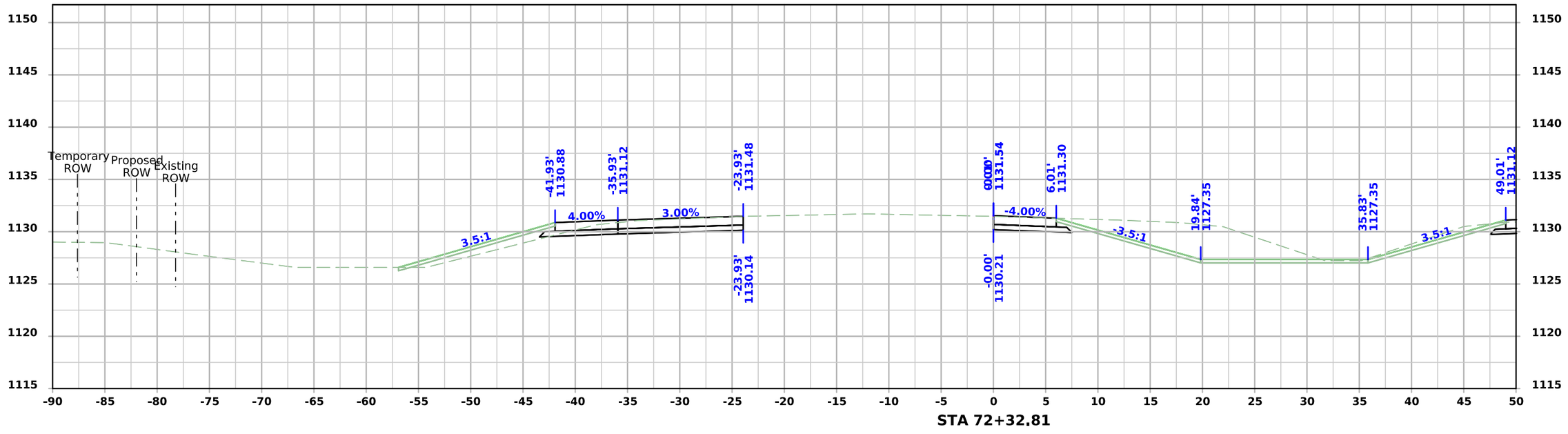


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.54

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C70 SB US 75

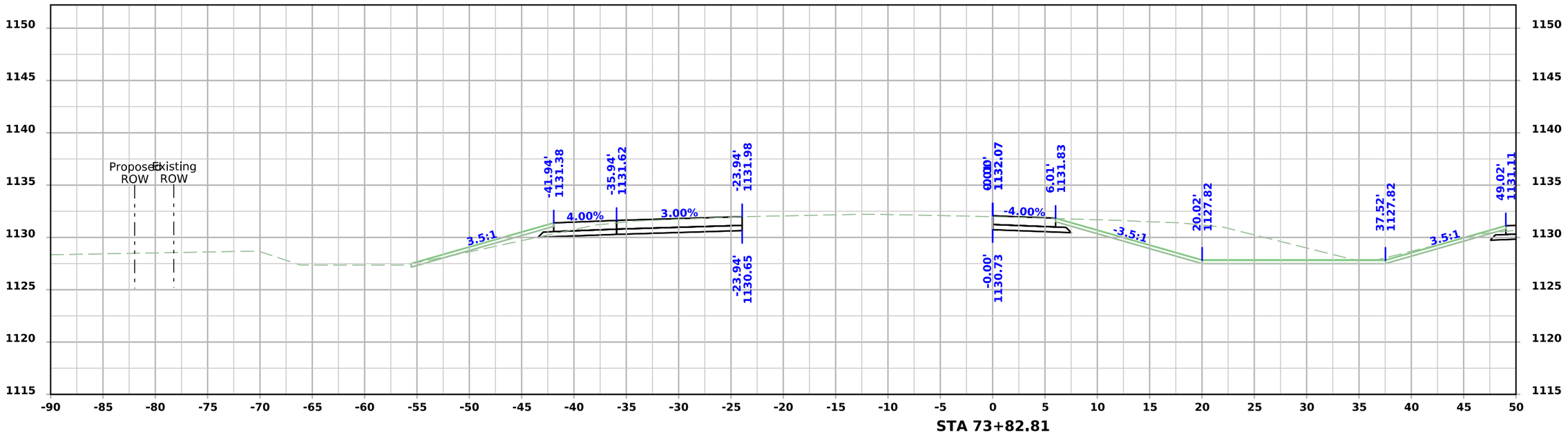


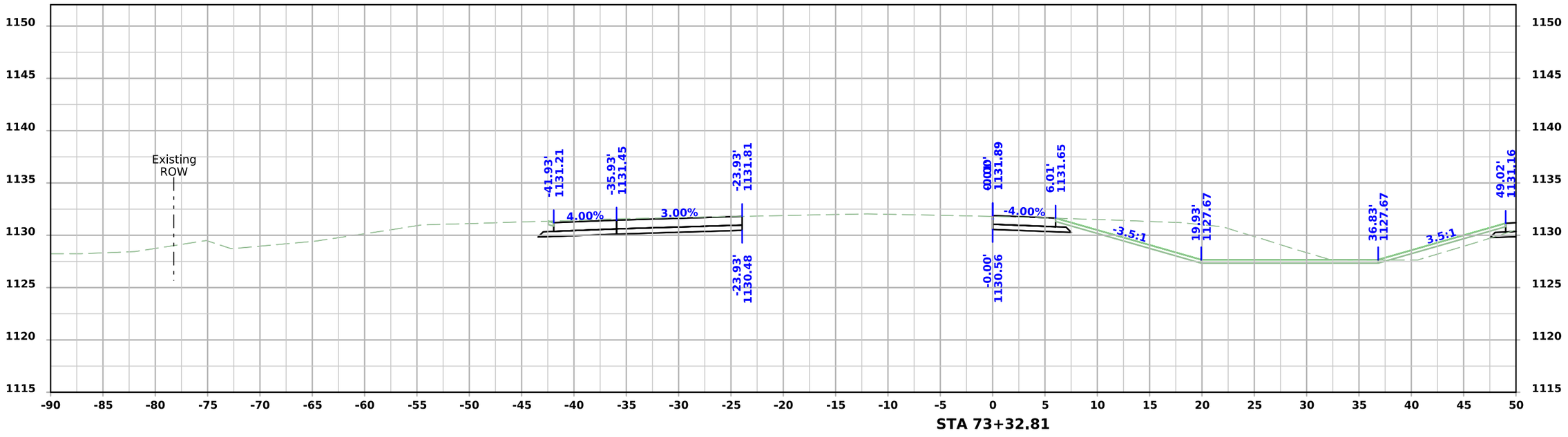


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.55

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C70 SB US 75

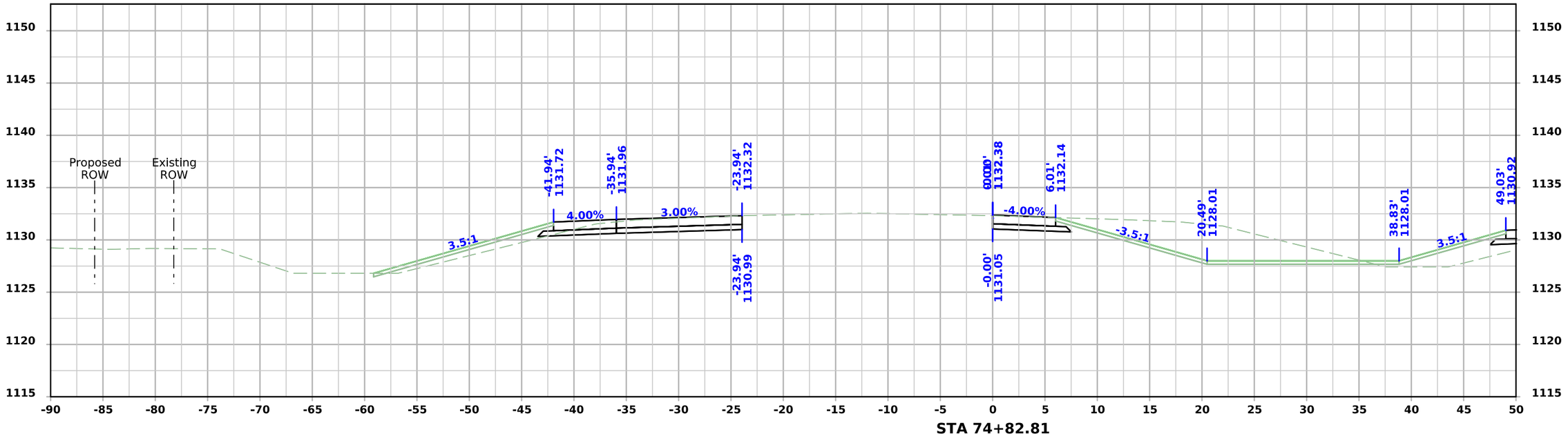


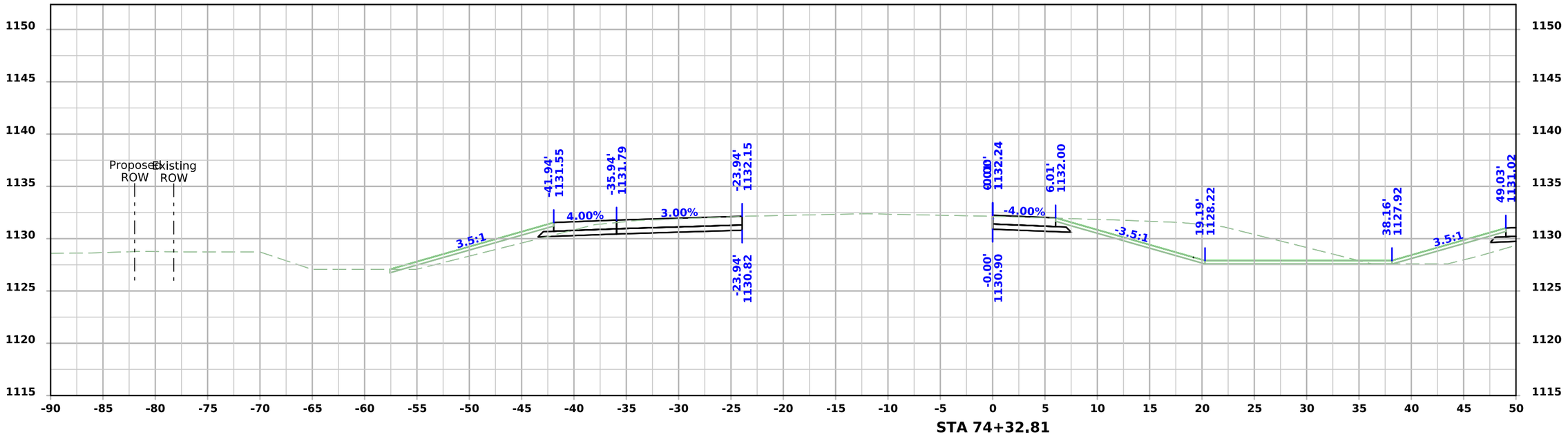


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.56

11:29:18 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 SB.dgn

C70 SB US 75

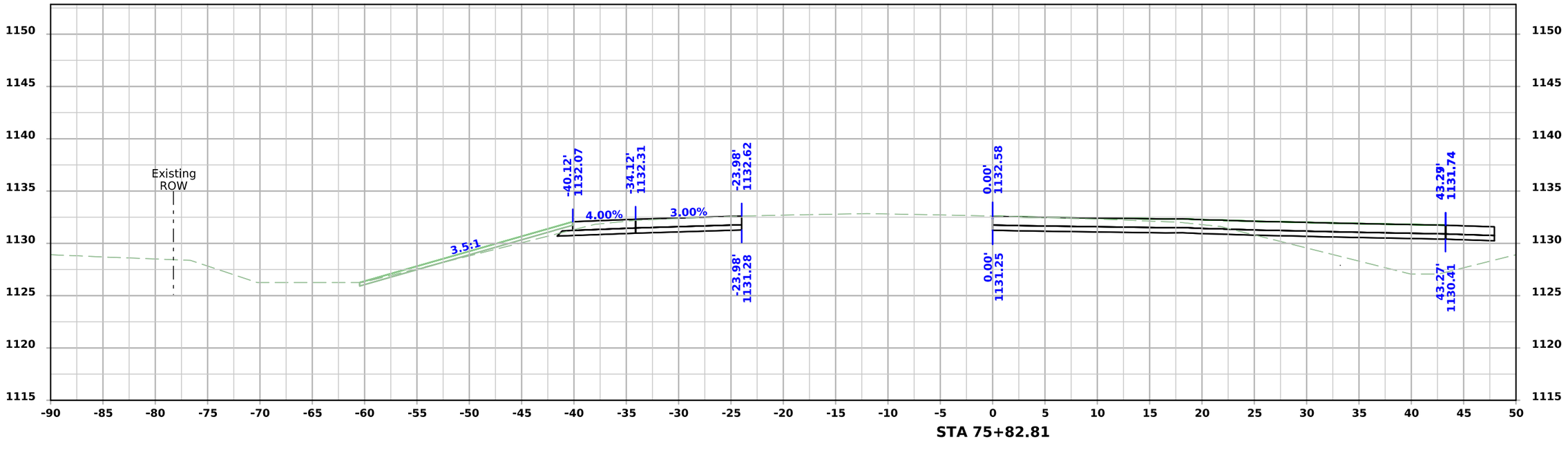




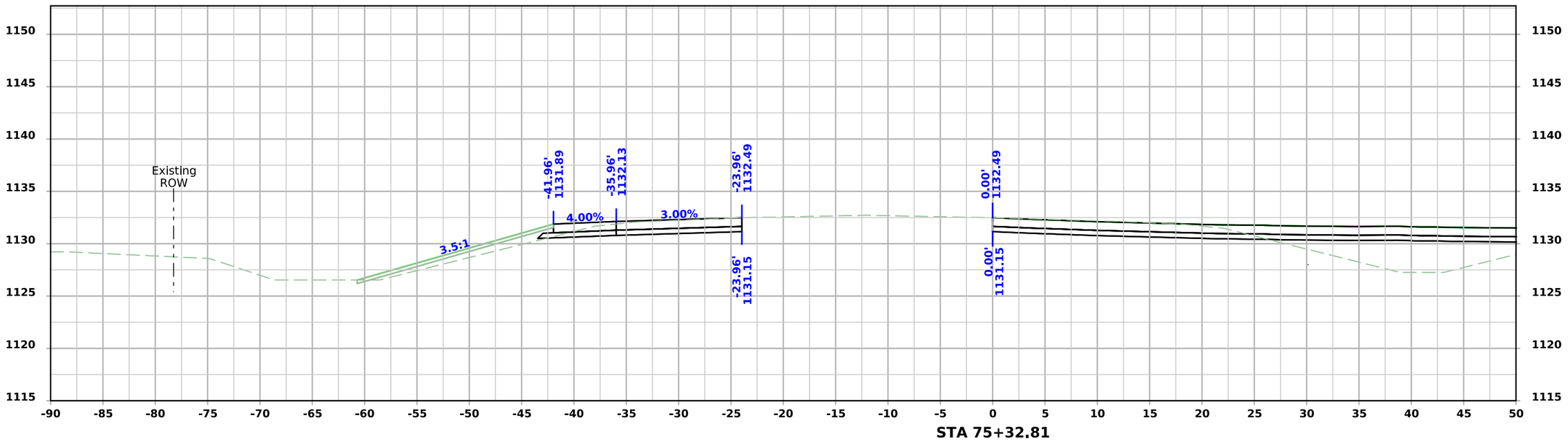
FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.57

11:29:19 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 SB.dgn

C70 SB US 75



STA 75+82.81

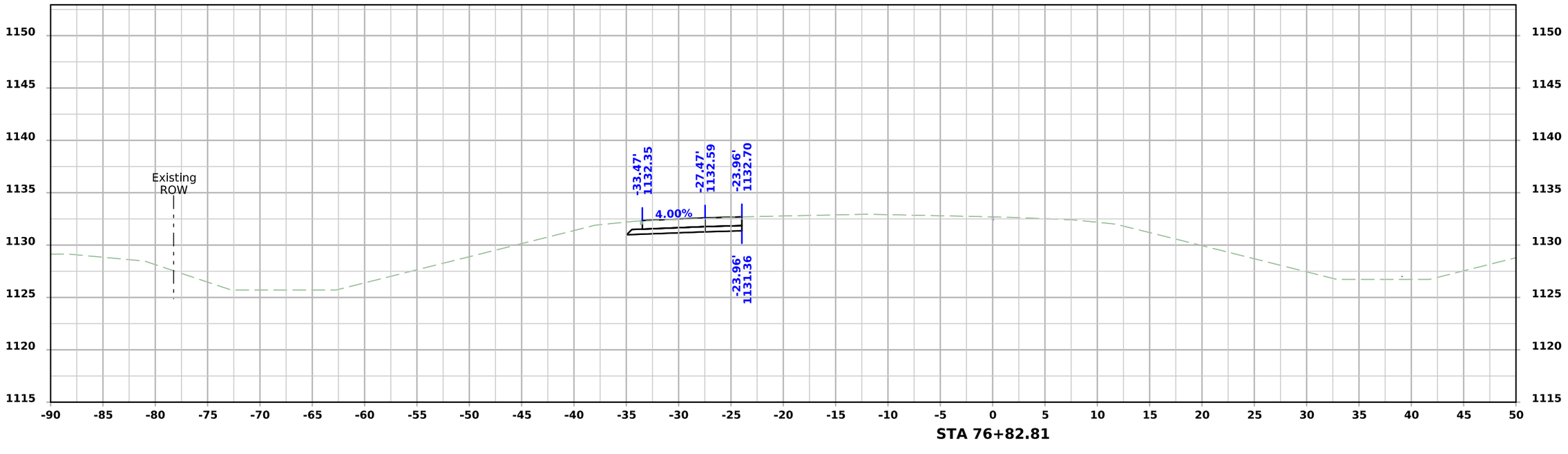


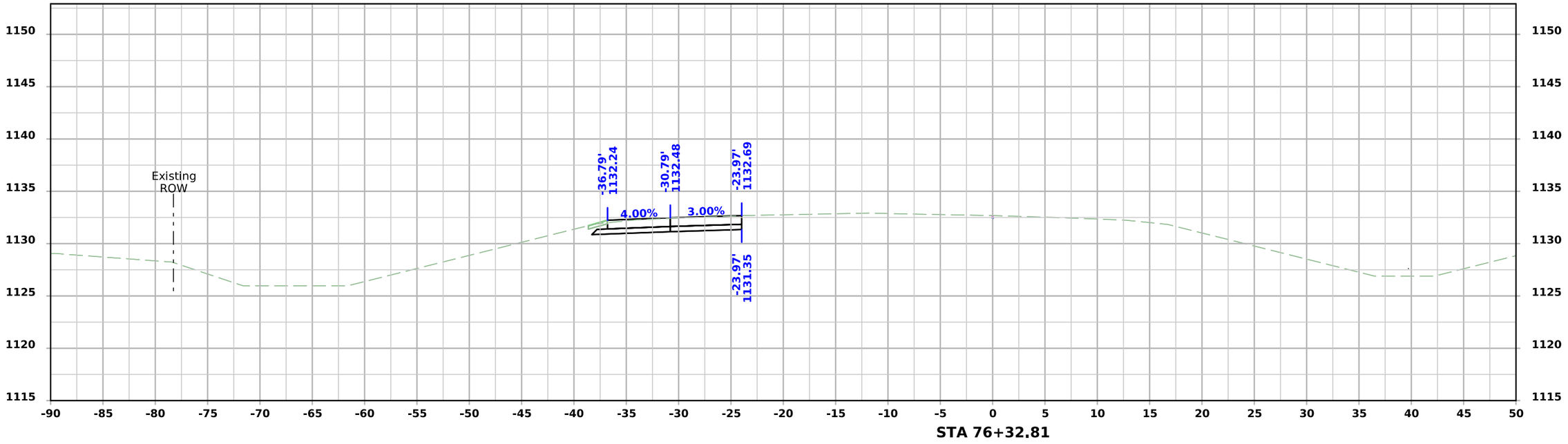
STA 75+32.81

FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.58	

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C70 SB US 75

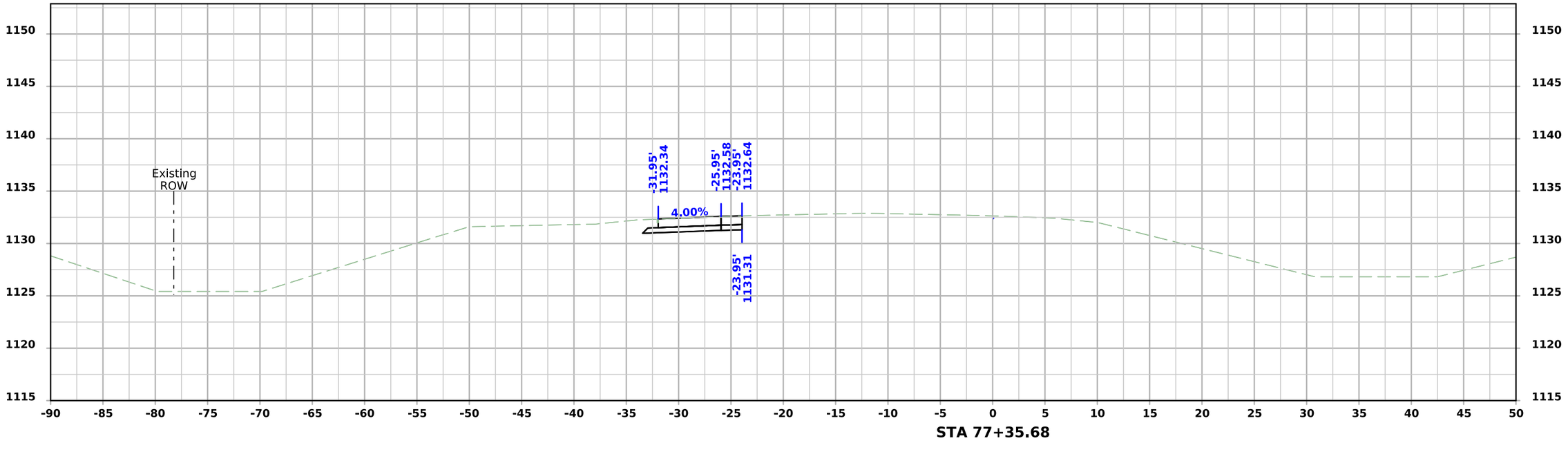


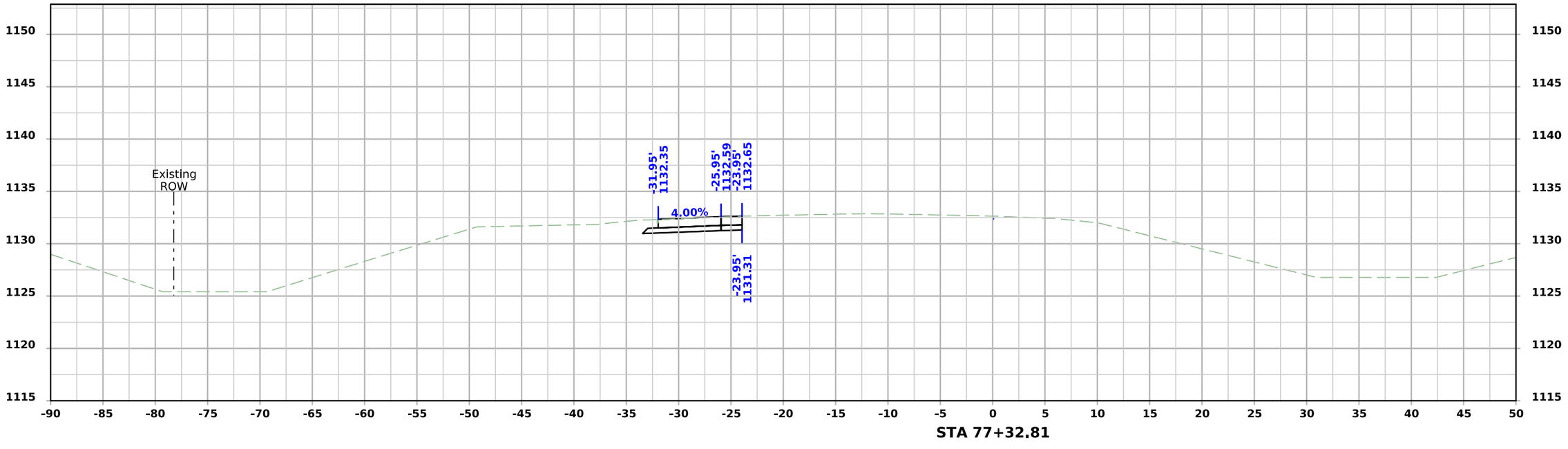


FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.59

11:29:22 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 SB.dgn

C70 SB US 75





FILE NO.	ENGLISH	DESIGN TEAM MSA Professional Services	PLYMOUTH COUNTY	PROJECT NUMBER NHSN-075-2(137)--2R-75	SHEET NUMBER W.60

11:29:22 AM 9/1/2026 astapleton pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7507502026\Design\CADD_Files\Sheet_Files\SHT_75075137Z04_W02-C70 SB.dgn