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09/28/2025

See Sheet 1A For Index of Sheets  
See Sheet 1B For Symbols Sheet

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49218.7	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49218.7		PE	
49218.7		CONST.	

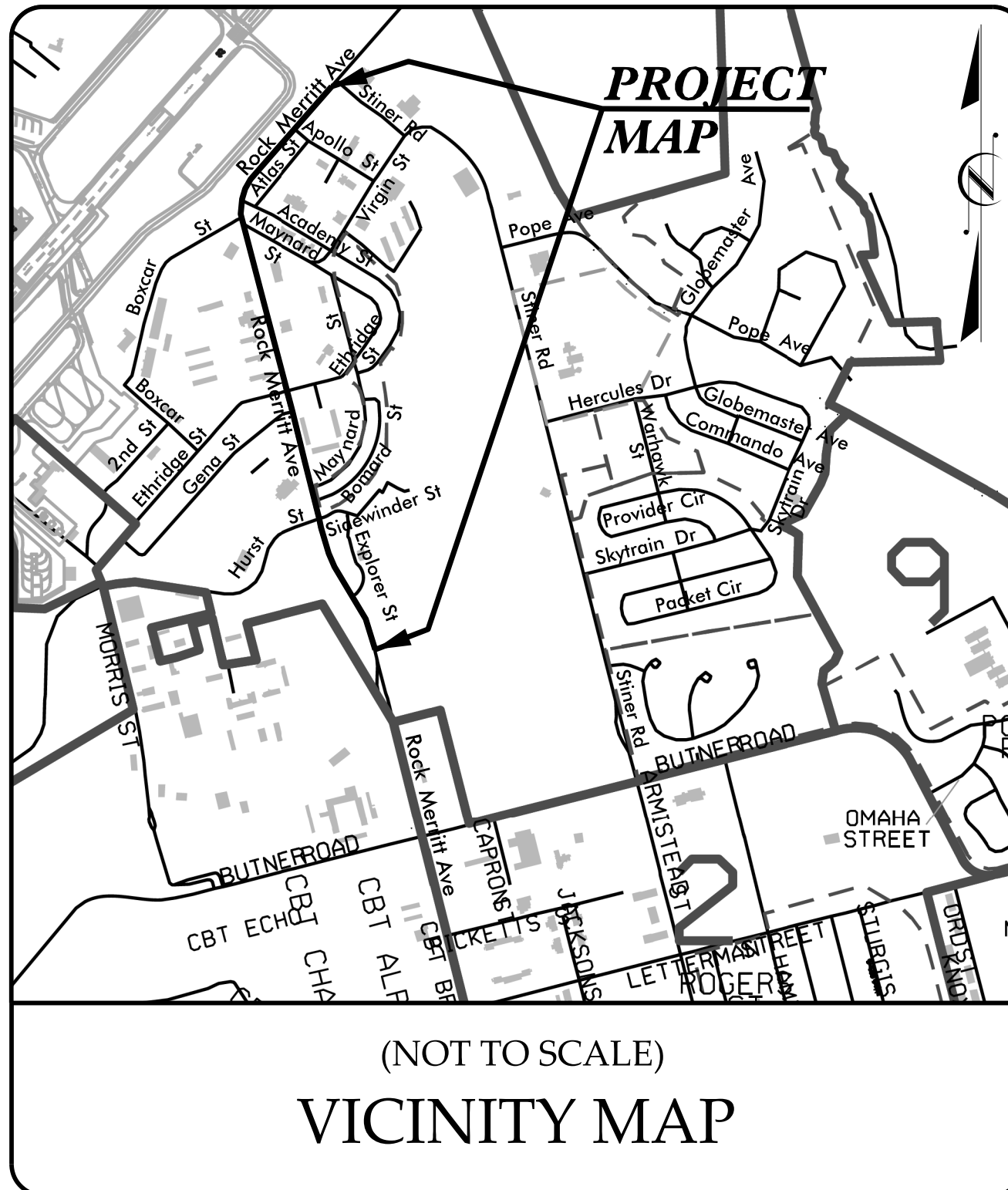
# CUMBERLAND COUNTY

**LOCATION: ROCK MERRITT AVE  
FROM THE FORMER ACCESS CONTROL POINT  
NORTH OF BUTNER RD TO APPROXIMATELY  
0.15 MILES NORTH OF BOXCAR ST**

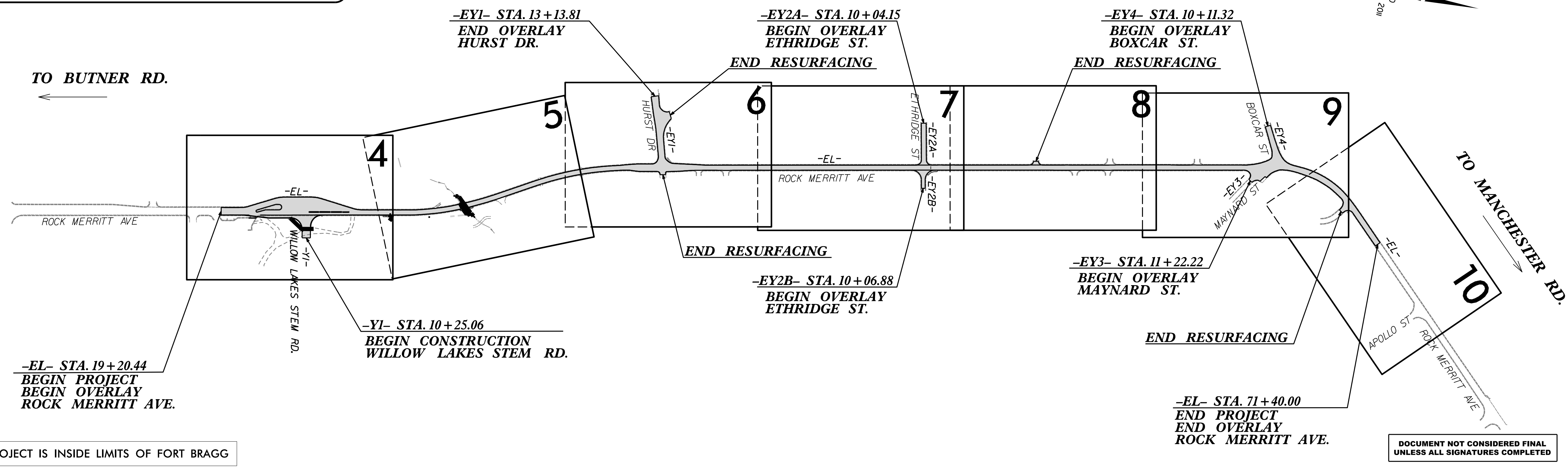
**TYPE OF WORK: RESURFACING, PAVEMENT REHABILITATION, MILLING  
GRADING, DRAINAGE IMPROVEMENTS, SIDEWALK, CURB  
AND GUTTER, ADA RAMP, AND PAVEMENT MARKINGS**

**FINAL PLANS**

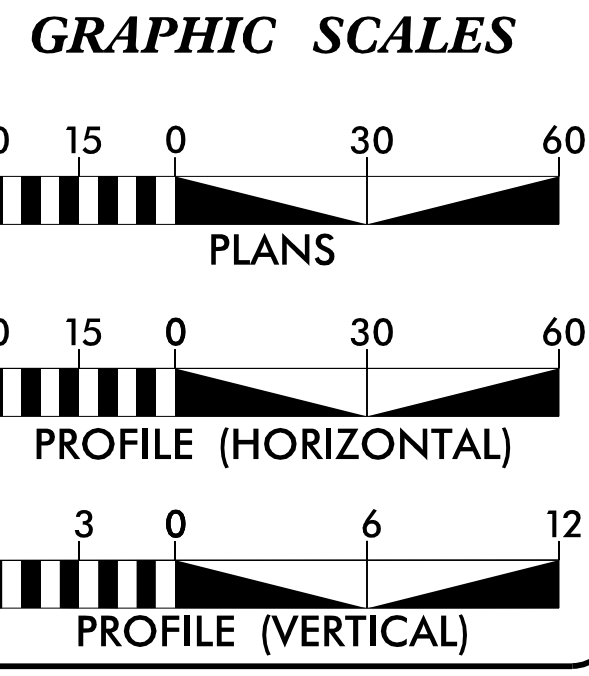
**TIP PROJECT: 49218.7**



## ROCK MERRITT AVE



**CONTRACT: DF00514**



**PROJECT LENGTH**

PROJECT 49218.7 ROCK MERRITT AVE.	= 0.988 MILES
PROJECT 49218.7 HURST DRIVE	= 0.056 MILES
PROJECT 49218.7 ETHRIDGE STREET	= 0.034 MILES
PROJECT 49218.7 ETHRIDGE STREET	= 0.014 MILES
PROJECT 49218.7 MAYNARD STREET	= 0.012 MILES
PROJECT 49218.7 BOX CAR STREET	= 0.024 MILES
PROJECT 49218.7 WILLOW LAKES STEM ROAD	= 0.019 MILES
<b>TOTAL LENGTH TIP PROJECT 49218.7</b>	<b>= 1.147 MILES</b>

**WETHERILL ENGINEERING**

Prepared for Fort Bragg in the Office of:  
1223 JONES FRANKLIN ROAD  
Raleigh, N.C. 27606  
Phone No. 919-2377  
Fax: 919-851-8077

2024 NCDOT STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A

LETTING DATE: SEPTEMBER 17, 2025

**EDWARD G. WETHERILL, PE**  
PROJECT ENGINEER

**R.K. MURPHY, JR., PE**  
PROJECT DESIGN ENGINEER

NCDOT CONTACT:

**CHRISTY W. HUFF, PE**  
DIVISION PROJECT MANAGER

**HYDRAULICS ENGINEER**

8/6/2025

SEAL 15833

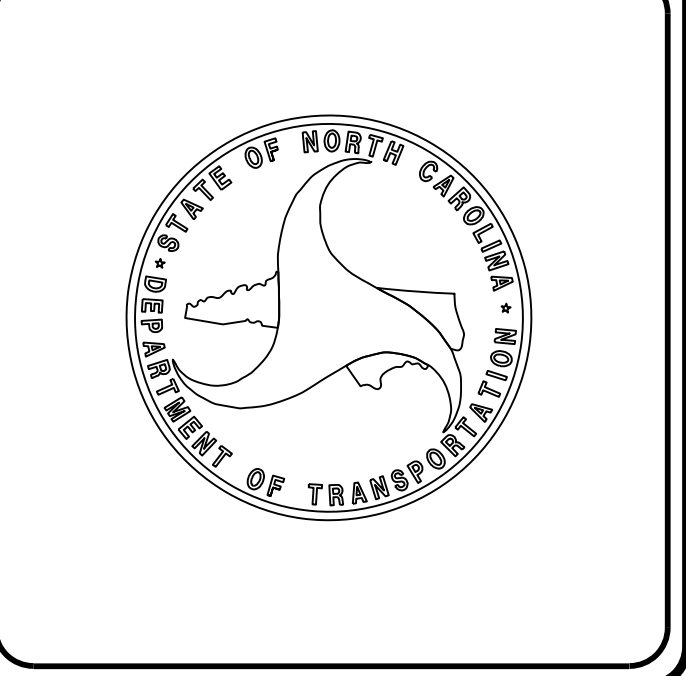
SIGNATURE: *Jerry L. Lindsey* P.E.

**ROADWAY DESIGN ENGINEER**

8/6/2025

SEAL 018981

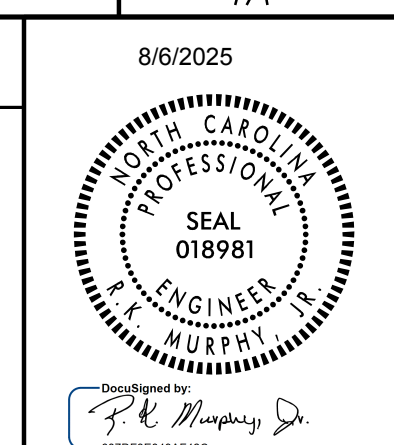
SIGNATURE: *R.K. Murphy, Jr.* P.E.



8/6/2025  
User: Rskennedy  
Project: Rock Merritt - Rdy - TSH.dgn

8/17/99

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



### ***GENERAL NOTES***

GENERAL NOTES: 2024 SPECIFICATIONS  
EFFECTIVE: 01-16-2024  
REVISED:

**GRADING AND SURFACING OR RESURFACING AND WIDENING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**CLEARING:**

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

**SUPERELEVATION:**

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

**SHOULDER CONSTRUCTION:**

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

**SIDE ROADS:**

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**DRIVEWAYS:**

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

**TEMPORARY SHORING:**

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE COMMUNICATIONS - BIGHTSPEED, NEC  
GAS - PNG, DPW POWER - SANDHILLS, WATER - ASUS.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

**CURB RAMPS**

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

### ***2024 ROADWAY ENGLISH STANDARD DRAWINGS***

EFF. 01-16-2024  
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
<b>DIVISION 2 - EARTHWORK</b>	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
<b>DIVISION 3 - PIPE CULVERTS</b>	
300.01	Method of Pipe Installation
<b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b>	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
<b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>	
654.01	Pavement Repairs
<b>DIVISION 8 - INCIDENTALS</b>	
838.27	Reinforced Concrete Endwall - for Single 60" pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.04	Street Turnout
848.06	Curb Ramp
852.01	Concrete Islands
876.02	Guide for Rip Rap at Pipe Outlets

### ***INDEX OF SHEETS***

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	SYMBOLOLOGY SHEET
2A-1 THRU 2A-3	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3B-1 THRU 3B-3	SUMMARY OF QUANTITIES
3D-1 THRU 3D-2	DRAINAGE SUMMARY SHEETS
4 THRU 16	PLAN AND PROFILE SHEETS
TMP-01 THRU TMP-05	TRAFFIC MANAGEMENT PLANS
PMP-01 THRU PMP-06	PAVEMENT MARKING PLANS
EC-1 THRU EC-17	EROSION CONTROL PLANS
SIGN-01 THRU SIGN-07	SIGNING PLANS
UO-1 THRU UO-5	UTILITY BY OTHERS PLANS
X-1 THRU X-27	CROSS SECTIONS

**49218.7**

***FORT BRAGG RESURFACING***

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Rock Merritt.Rdu\_PSH-1A.dgn  
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# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	☠-s-☠-s-
Potential Contamination Area: Soil	☠-s-☠-s-
Known Contamination Area: Water	☠-w-☠-w-
Potential Contamination Area: Water	☠-w-☠-w-
Contaminated Site: Known or Potential	☠ ?

## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

## HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

## RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

## RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	▲
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◇
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	▲
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage/Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

## ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----
VEGETATION:	
Single Tree	○
Single Shrub	○
Hedge	-----

Woods Line	-----
Orchard	-----
Vineyard	-----

## EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

## UTILITIES:

\* SUE - Subsurface Utility Engineering  
LOS - Level of Service - A, B, C or D (Accuracy)

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	□
Power Transformer	□
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	○
U/G Power Line (SUE - LOS B)*	-----
U/G Power Line (SUE - LOS C)*	-----
U/G Power Line (SUE - LOS D)*	-----

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Pedestal	□
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	○
U/G Telephone Test Hole (SUE - LOS A)*	○
U/G Telephone Cable (SUE - LOS B)*	-----
U/G Telephone Cable (SUE - LOS C)*	-----
U/G Telephone Cable (SUE - LOS D)*	-----
U/G Telephone Conduit (SUE - LOS B)*	-----
U/G Telephone Conduit (SUE - LOS C)*	-----
U/G Telephone Conduit (SUE - LOS D)*	-----
U/G Fiber Optics Cable (SUE - LOS B)*	-----
U/G Fiber Optics Cable (SUE - LOS C)*	-----
U/G Fiber Optics Cable (SUE - LOS D)*	-----

## WATER:

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	○
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	-----

## TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Test Hole (SUE - LOS A)*	○
U/G TV Cable (SUE - LOS B)*	-----
U/G TV Cable (SUE - LOS C)*	-----
U/G TV Cable (SUE - LOS D)*	-----
U/G Fiber Optic Cable (SUE - LOS B)*	-----
U/G Fiber Optic Cable (SUE - LOS C)*	-----
U/G Fiber Optic Cable (SUE - LOS D)*	-----

## GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	○
U/G Gas Line (SUE - LOS B)*	-----
U/G Gas Line (SUE - LOS C)*	-----
U/G Gas Line (SUE - LOS D)*	-----
Above Ground Gas Line	-----

## SANITARY SEWER:

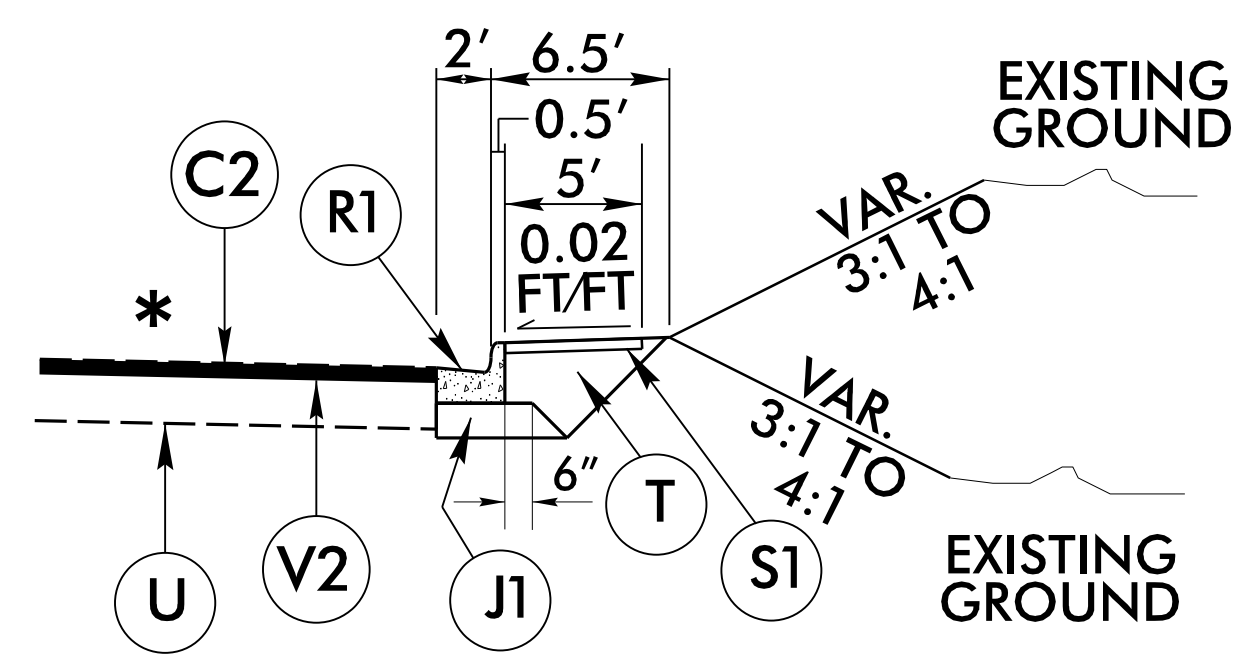
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Force Main Line Test Hole (SUE - LOS A)*	○
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

## MISCELLANEOUS:

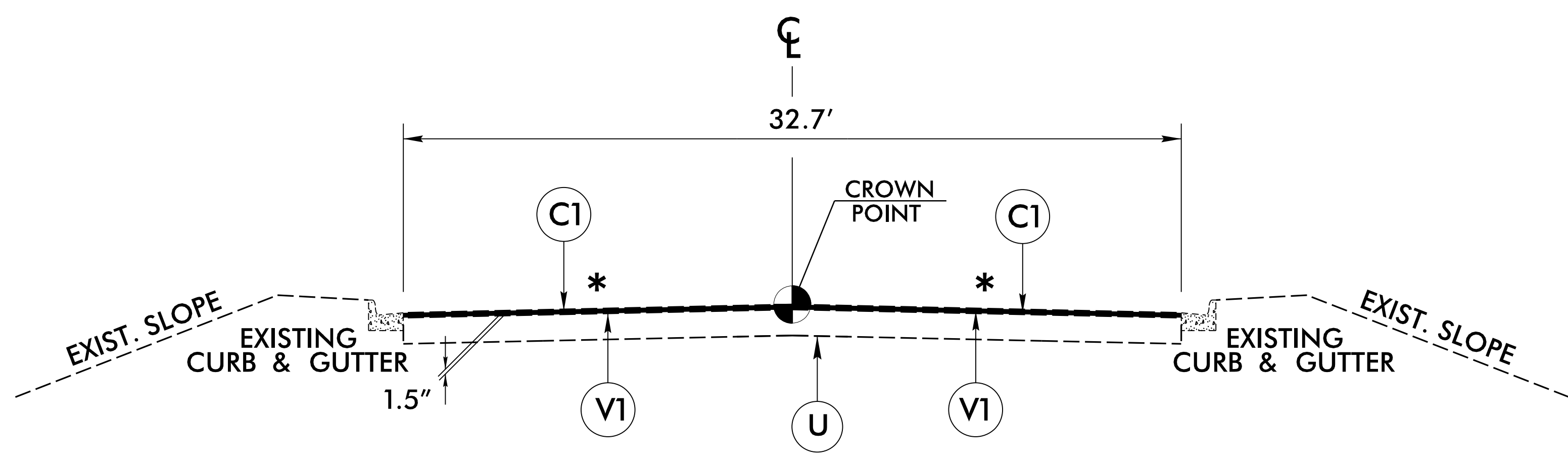
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown U/G Line (SUE - LOS B)*	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	□
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

8/17/99

PAVEMENT SCHEDULE	
(FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
J1	6" AGGREGATE BASE COURSE
R1	2'-6" CURB & GUTTER
S1	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILL 1.5" OF EXISTING ASPHALT PAVEMENT
V2	MILL 3" OF EXISTING ASPHALT PAVEMENT
V3	MILL 7" OF EXISTING ASPHALT PAVEMENT
V4	MILL 10" OF EXISTING ASPHALT PAVEMENT

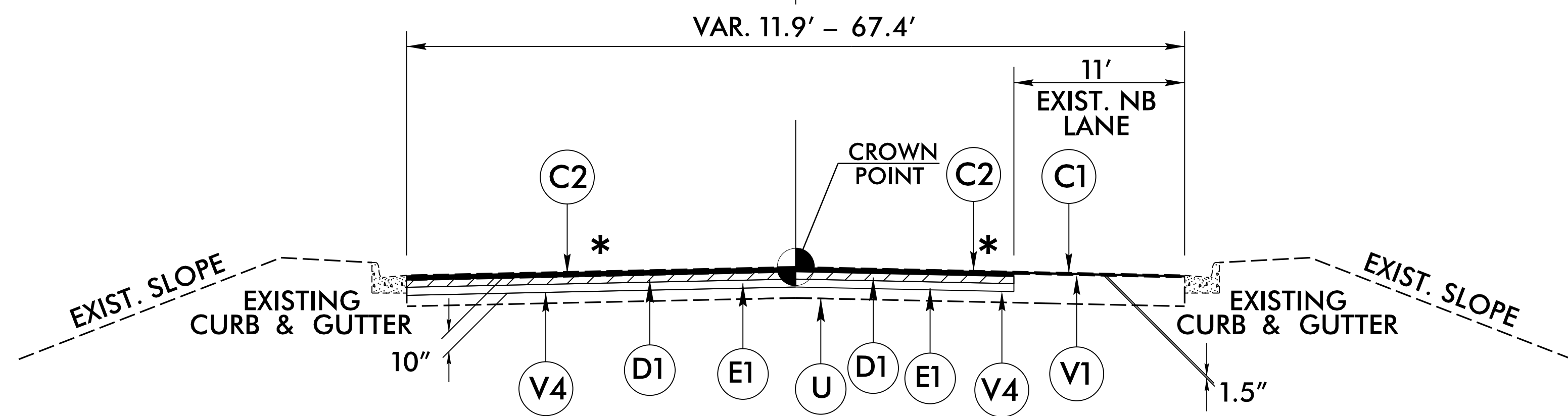


USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3  
 -EL- STA. 26+30.00 TO -EL- STA. 26+75.00 RT.



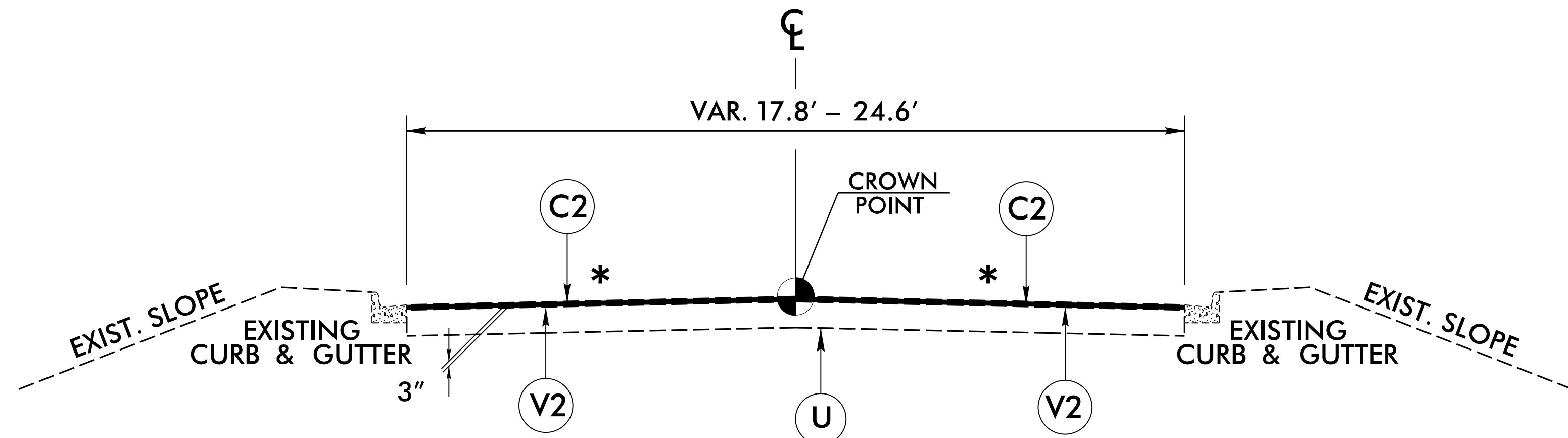
**\* MATCH EXISTING CROSS SLOPES**

**TYPICAL SECTION NO. 1**  
 FROM -EL- STA. 19+20.44 TO -EL- STA. 20+00.00  
 DRIVE AT -EL- STA. 69+28.00 RT.  
 DRIVE AT -EL- STA. 38+76.10 RT.



**\* MATCH EXISTING CROSS SLOPES**

**TYPICAL SECTION NO. 2**  
 FROM -EL- STA. 20+00.00 TO -EL- STA. 25+25.00



**\* MATCH EXISTING CROSS SLOPES**

**TYPICAL SECTION NO. 3**  
 FROM -EL- STA. 25+25.00 TO -EL- STA. 29+55.00  
 FROM -EL- STA. 30+25.00 TO -EL- STA. 36+49.00  
 FROM -EL- STA. 64+14.00 TO -EL- STA. 71+40.00  
 FROM -EY3- STA. 11+22.22 TO -EY3- STA. 11+88.13  
 DRIVE AT -EL- STA. 55+00.00 LT.

PROJECT REFERENCE NO. 49218.7	SHEET NO. 2A-1
PAVEMENT DESIGN ENGINEER ANDREW D. WILSON SEAL 044590 EXPIRES 12/31/2025	ROADWAY DESIGN ENGINEER R. L. MURPHY SEAL 018981 EXPIRES 12/31/2025
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REVISIONS

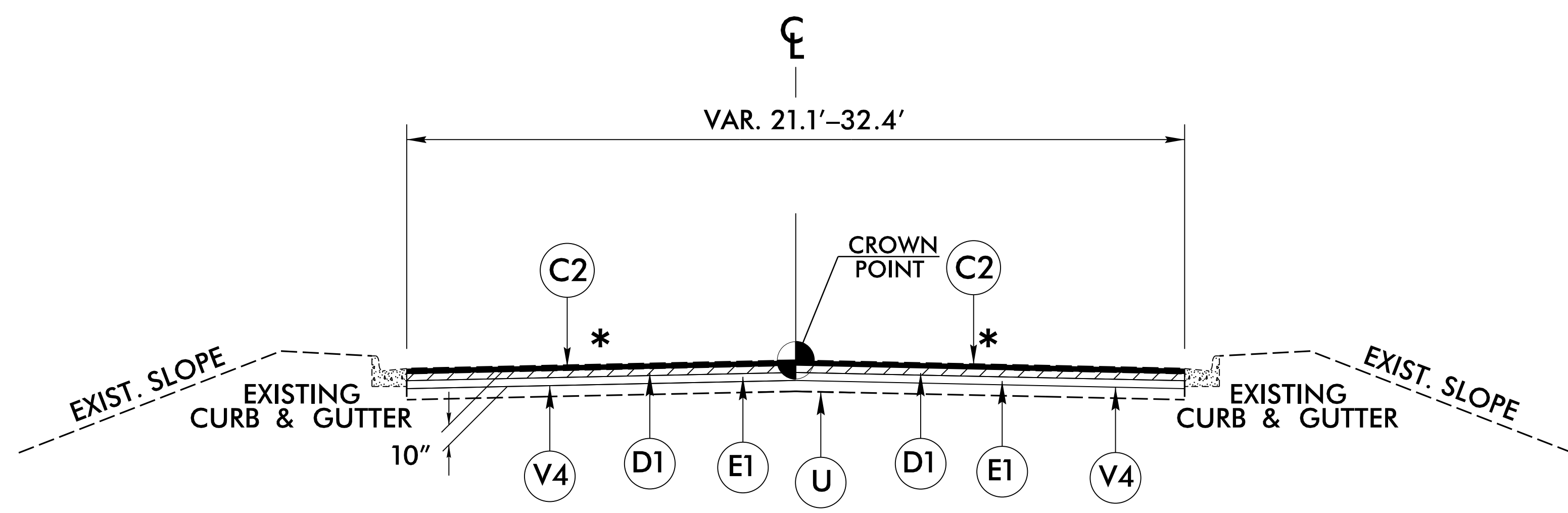
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PAVEMENT SCHEDULE	
(FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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S1	4" CONCRETE SIDEWALK
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U	EXISTING PAVEMENT
V1	MILL 1.5" OF EXISTING ASPHALT PAVEMENT
V2	MILL 3" OF EXISTING ASPHALT PAVEMENT
V3	MILL 7" OF EXISTING ASPHALT PAVEMENT
V4	MILL 10" OF EXISTING ASPHALT PAVEMENT

REVISIONS

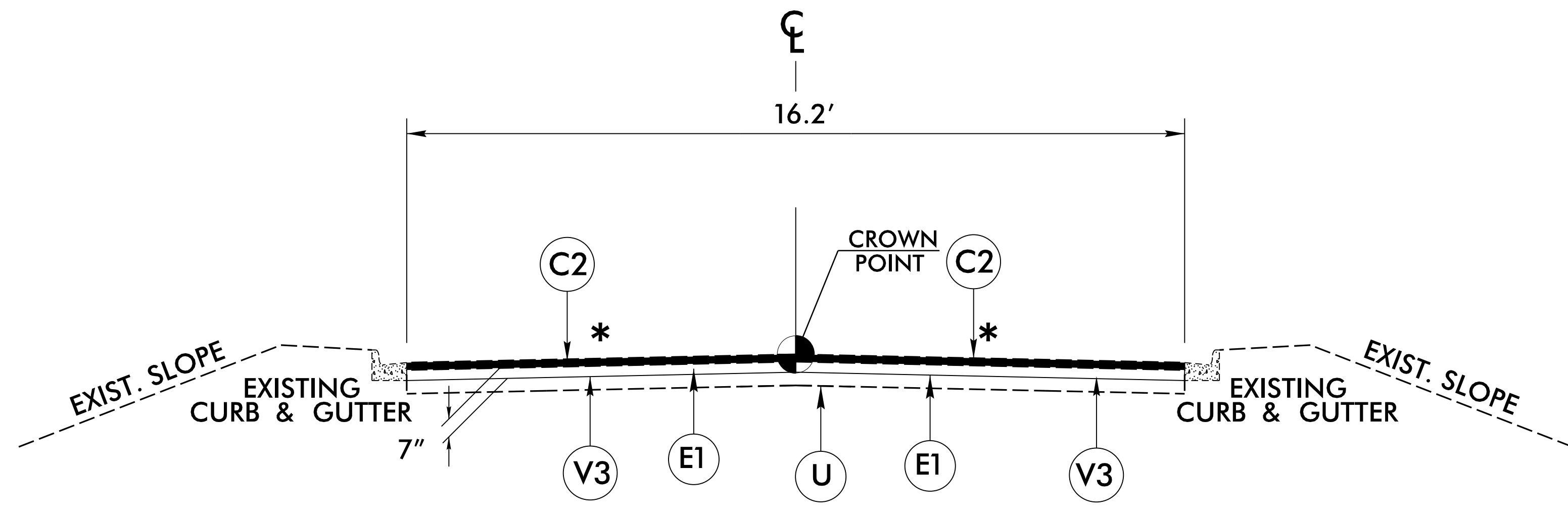
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\* MATCH EXISTING CROSS SLOPES

**TYPICAL SECTION NO. 4**

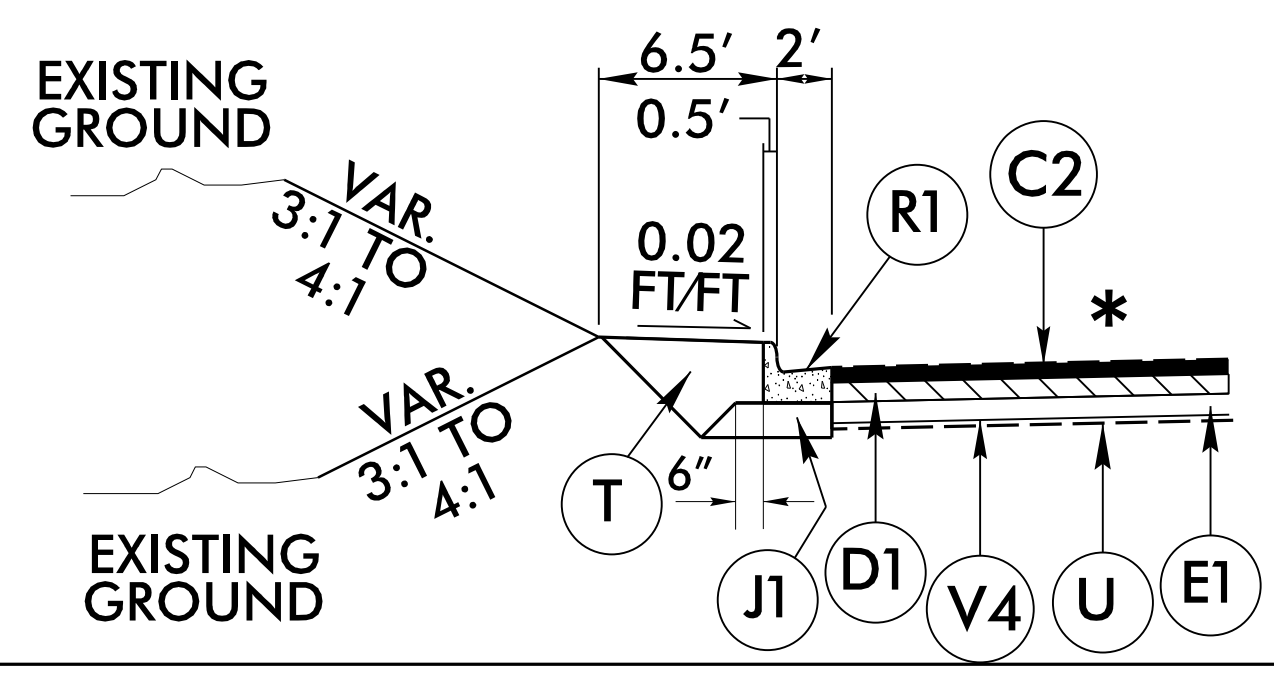
- FROM -EL- STA. 29+55.00 TO -EL- STA. 30+25.00
- FROM -EL- STA. 36+49.00 TO -EL- STA. 64+14.00
- FROM -EY1- STA. 10+17.68 TO -EY1- STA. 13+13.81
- FROM -EY2A- STA. 10+04.15 TO -EY2A- STA. 11+82.63
- FROM -EY4- STA. 10+11.32 TO -EY4- STA. 11+39.37



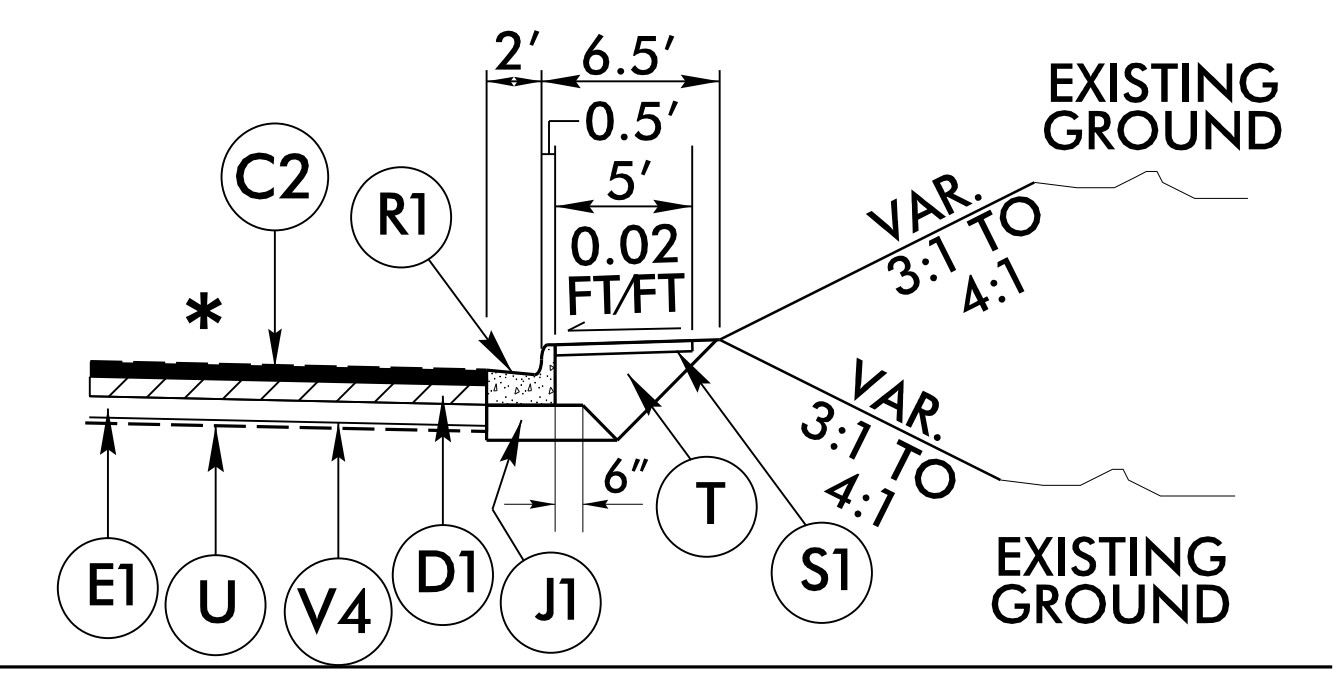
\* MATCH EXISTING CROSS SLOPES

**TYPICAL SECTION NO. 5**

- FROM -EY2B- STA. 10+06.88 TO -EY2B- STA. 10+82.39



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 4  
-EL- STA. 29+59.00 TO -EL- STA. 30+00.00 LT.



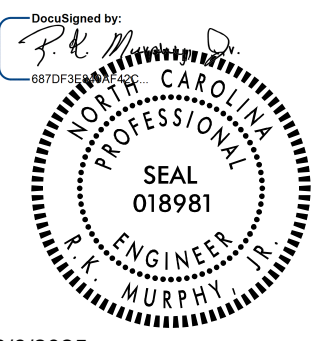
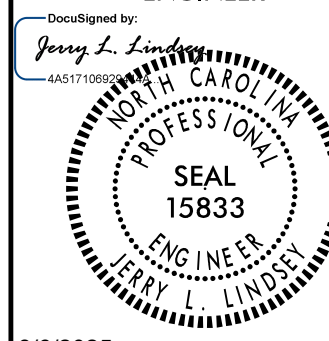
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-EL- STA. 29+65.00 TO -EL- STA. 30+22.00 RT.

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8/17/99

REVISIONS

PROJECT REFERENCE NO. <i>49218.7</i>	SHEET NO. <i>2B-1</i>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

CONCRETE OPENINGS	STATION
CO1	-EL- STA. 23 + 51.81
CO2	-EL- STA. 24 + 02.40
CO3	-EL- STA. 24 + 52.11

**NOTES:**

1. IN THE CONCRETE MONOLITHIC ISLAND PLACE 36" OPENINGS THROUGH THE ISLAND AT THE SPECIFIED STATIONS.
2. LINE UP THE OPENINGS IN THE CONCRETE MONOLITHIC ISLAND TO ALLOW FOR SURFACE WATER TO DRAIN.

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# SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	063000000-N	000400000-N	013400000-E	031800000-E	032100000-E	112100000-E	122000000-E	129700000-E	129700000-E	129700000-E	129700000-E	133000000-E	149100000-E													
												GRADING	CONSTRUCTION SURVEYING	DRAINAGE DITCH EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	FOUNDATION CONDITIONING GEOTEXTILE	AGGREGATE BASE COURSE	INCIDENTAL STONE BASE	MILLING ASPHALT PAVEMENT, 1.5" DEPTH	MILLING ASPHALT PAVEMENT, 3" DEPTH	MILLING ASPHALT PAVEMENT, 7" DEPTH	MILLING ASPHALT PAVEMENT, 10" DEPTH	INCIDENTAL MILLING	BASE COURSE, B25.0C													
												MI	FT	LS	LS	CY	TONS	SY	TON	TON	SY	SY	SY	SY	SY	TONS											
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	NO	NO	0.988	24.6 - 67.4	1	1	330	40	100	60	50	644	5,173			10,086	703	2,480												
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	NO	NO	0.056	27.9 - 32.4												860	445	298												
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.034	21.1												199	234	99												
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	NO	NO	0.014	16.2											195	195	45													
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	NO	NO	0.012	17.8													439													
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.024	23												91	668	83												
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	NO	NO	0.019	36																										
TOTAL FOR PROJ NO. 49218.7																																					
GRAND TOTAL																																					
											1				1		330		40		100		60		50		644		5,173		195		11,236		2,684		3,005

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	150300000-E	152300000-E	157500000-E	170400000-E	222000000-E	227500000-E	228600000-N	230800000-E	236600000-N	247200000-N	237400000-N	237400000-N	237400000-N											
												INTERMEDIATE COURSE, 119.0C	SURFACE COURSE, 59.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	REINFORCED ENDWALLS	FLOWABLE FILL	MASONRY DRAINAGE STRUCTURES	MASONRY DRAINAGE STRUCTURES	FRAME WITH TWO GRATES, STD 840.24	GENERIC DRAINAGE ITEM, MANHOLE FRAME AND COVER, STD 840.55	FRAME WITH GRATE & HOOD, STD 840.03, TYPE "E"	FRAME WITH GRATE & HOOD, STD 840.03, TYPE "F"	FRAME WITH GRATE & HOOD, STD 840.03, TYPE "G"											
												MI	FT	TONS	TONS	TON	TON	CY	CY	EA	LF	EA	EA	EA	EA	EA									
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	NO	NO	0.988	24.6 - 67.4	1,729	2,833	365	25	11.80	5	12	7.90	1	2	3	4	1											
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	NO	NO	0.056	27.9 - 32.4		220	30	5																				
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.034	21.1	74	73	15	5																				
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	NO	NO	0.014	16.2		33	5	5																				
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	NO	NO	0.012	17.8			5																					
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.024	23	62	61	15	5																				
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	NO	NO	0.019	36	225		15																					
TOTAL FOR PROJ NO. 49218.7																																			
GRAND TOTAL																																			
											2,090		3,220		445		50		11.80		5		12		7.90		1		2		3		4		1

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	604500000-E	254900000-E	259100000-E	260500000-N	264700000-E	275200000-E	283000000-N	284500000-N	363500000-E	364900000-E	365600000-E	600000000-E	600600000-E											
												15" TEMPORARY PIPE	2'-6" CONCRETE CURB & GUTTER	4" CONCRETE SIDEWALK	CONCRETE CURB RAMPS	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	REMOVE AND REPLACE 2'-6" CONCRETE CURB AND GUTTER	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER BOXES OR VALVE BOXES	RIP RAP, CLASS II	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS A											
												MI	FT	LF	LF	SY	EA	SY	LF	EA	EA	TON	TON	SY	LF	TONS									
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	NO	NO	0.988	24.6 - 67.4	100	420	90	32	80	150	1	1	52	15	695	715	140											
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	NO	NO	0.056	27.9 - 32.4																								
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.034	21.1																								
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	NO	NO	0.014	16.2																								
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	NO	NO	0.012	17.8																								
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.024	23			3																					
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	NO	NO	0.019	36																								
TOTAL FOR PROJ NO. 49218.7																																			
GRAND TOTAL																																			
											100		420		90		35		80		150		1		1		52		15		695		715		140

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	609000000-E	601200000-E	601500000-E	601800000-E	602100000-E	602900000-E	603000000-E	603600000-E	603700000-E	604200000-E	607000000-N	6071012000-E	6071002000-E											
												STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING	SAFETY FENCE	SILT EXCAVATION	MATTING FOR EROSION CONTROL	COIR FIBER MAT	1/4" HARDWARE CLOTH	SPECIAL STILLING BASINS	COIR FIBER WATTLE	FLOCCULANT											
												MI	FT	TONS	TONS	AC	LB	TON	LF	CY	SY	SY	LF	EA	LF	LB									
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	NO	NO	0.988	24.6 - 67.4	15	150	0.50	100	0.50	260	30	1,200	100	325	4	130	15											
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	NO	NO	0.056	27.9 - 32.4																								
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.034	21.1																								
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	NO	NO	0.014	16.2																								
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	NO	NO	0.012	17.8																								
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.024	23																								
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	NO	NO	0.019	36																								
TOTAL FOR PROJ NO. 49218.7																																			
GRAND TOTAL																																			
											15		150		0.50		100		0.50		260		30		1,200		100		325		4		130		15

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	608400000-E	609000000-E	609300000-E	609600000-E	610800000-E	611100000-E	611700000-N	611700000-N	611700000-N	613200000-E	613200000-E	613200000-E	
												SEEDING & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	SEED FOR SUPPLEMENTAL SEEDING	FERTILIZER TOPDRESSING	IMPERVIOUS DIKE	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE	FABRIC INSERT INLET PROTECTION, TYPE 2	FABRIC INSERT INLET PROTECTION CLEANOUT	PREFABRICATED CONCRETE WASHOUT		
												MI	FT	ACRE	LB	TON	LB	TON	LF	EA	EA	EA	EA	EA
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	NO	NO	0.988	24.6 - 67.4	0.5	50	0.25	50	0.50	40	13	1	2	4	6		
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	NO	NO	0.056	27.9 - 32.4													
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	NO	NO	0.034	21.1													
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	NO	NO	0.014	16.2													
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	NO	NO	0.012	17.8													
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4</																			

# SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4025000000-E	4072000000-E	4102000000-N	4155000000-N	4400000000-E	4405000000-E	4410000000-E	4420000000-N	4430000000-N	4445000000-E	4455000000-N	4685000000-E			
										CONTRACTOR FURNISHED, TYPE E SIGN	SUPPORTS, 3-LB STEEL U-CHANNEL	SIGN ERECTION, TYPE E	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	STATIONARY WORK ZONE SIGN	PORTABLE WORK ZONE SIGNS	BARRICADE MOUNTED WORK ZONE SIGN	PORTABLE CHANGEABLE MESSAGE SIGN	DRUMS	TYPE III BARRICADE	FLAGGER	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO		
									MI	FT	SF	LF	EA	EA	SF	SF	EA	EA	LF	DAY	LF	LF		
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	0.988	24.6 - 67.4	367	1016.5	90	19	710	330	390	6	50	160	90	1,480	12,830		
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	0.056	27.9 - 32.4												50	580		
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.034	21.1													380		
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	0.014	16.2													180		
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	0.012	17.8													90		
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.024	23													340		
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	0.019	36													200		
TOTAL FOR PROJ NO. 49218.7									1.147	76.8	367	1016.5	90	19	710	330	390	6	50	160	90	1,820	14,600	
GRAND TOTAL											367	1016.5	90	19	710	330	390	6	50	160	90	1,820	14,980	
																						16,420	14,980	
																							16,420	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4688000000-E	4695000000-E	4704000000-E	4709000000-E	4890000000-E	4720000000-E									
										6" X 90 M WHITE THERMO	8" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	16" X 90 M WHITE THERMO	24" X 90 M WHITE THERMO	YIELD LINE PAVEMENT MARKING, 24" 90 M	THERMO MSG YIELD 90 M	THERMO MSG AHEAD 90 M	THERMO MSG TO 90 M	THERMO MSG PDS 90 M	THERMO MSG RXR 90 M	THERMO MSG STOP 90 M			
									MI	FT	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA			
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	0.988	24.6 - 67.4	90	800	460			320	190	10	10	4	8				
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	0.056	27.9 - 32.4				100	140						4				
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.034	21.1					20										
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	0.014	16.2					20										
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	0.012	17.8	90	900			70								4		
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.024	23					120	40									
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	0.019	36					50										
TOTAL FOR PROJ NO. 49218.7									1.147	76.8	180	1830	460	100	740	230	10	10	4	8	4	4		
GRAND TOTAL											180	1,830	460	100	740	230	10	10	4	8	4	4		
												2,290												
												2,290												

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4725000000-E				4810000000-E		4815000000-E	4820000000-E		4830000000-E	4835000000-E	4890000000-E	
										THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	THERMO U-TURN ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	6" WHITE PAINT	8" WHITE PAINT	8" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	YIELD LINE PAINT PAVEMENT MARKING, 24"	
									MI	FT	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	0.988	24.6 - 67.4	5	1	3	2	1,480	12,830	90	800	460		320	190	
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	0.056	27.9 - 32.4	1	1			50	580		20		100	140		
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.034	21.1						380					20		
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	0.014	16.2						180					20		
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	0.012	17.8					30	90	90	900			70		
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.024	23					160	340		110			120		
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	0.019	36		1	1		100	200					50		
TOTAL FOR PROJ NO. 49218.7									1.147	76.8	6	3	4	2	1,820	14,600	180	1,830	460	100	740	230
GRAND TOTAL											6	3	4	2	1,820	14,600	180	1,830	460	100	740	230
												15				16,420		2,290				
												15				16,420		2,290				

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4840000000-N					4845000000-N				4900000000-N			
										PAINT MSG YIELD	PAINT MSG AHEAD	PAINT MSG TO	PAINT MSG PDS	PAINT MSG RXR	PAINT MSG STOP	PAINT LT ARROW	PAINT RT ARROW	PAINT STR ARROW	PAINT U-TURN ARROW	YELLOW & YELLOW MARKERS	WHITE & RED MARKERS	
									MI	FT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
49218.7	Cumberland	1	ROCK MERRITT AVE.	FROM FORMER ACP NORTH OF BUTNER RD. TO APPROX. 0.15 MILES NORTH OF BOXCAR ST.	1,2,3,4	2	2WU	0.988	24.6 - 67.4	10	10	4	8			5	1	3	2	100	60	
49218.7	Cumberland	2	HURST DR.	FROM ROCK MERRITT AVE. TO END CONST.	2	2	2WU	0.056	27.9 - 32.4					4		1	1			10	10	
49218.7	Cumberland	3	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.034	21.1											10		
49218.7	Cumberland	4	ETHRIDGE ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	5	2	2WU	0.014	16.2											10		
49218.7	Cumberland	5	MAYNARD ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	3	2	2WU	0.012	17.8						4					10		
49218.7	Cumberland	6	BOX CAR ST.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	4	2	2WU	0.024	23											10		
49218.7	Cumberland	7	WILLOW LAKES STEM RD.	FROM BEGIN CONST. TO ROCK MERRITT AVE.	6	3	MU	0.019	36								1	1		10	10	
TOTAL FOR PROJ NO. 49218.7									1.147	76.8	10	10	4	8	4	4	6	3	4	2	160	80
GRAND TOTAL											10	10	4	8	4	4	6	3	4	2	160	80

8/17/99  
REVISIONS  
5/27/2025  
P:\Projects\Rock Merritt\_S00\_PSH.dgn  
JEF:skenned

WEI-6/1P/2653

COMPUTED BY: Katie Estep DATE: 3/19/2025  
CHECKED BY: Jerry Lindsey DATE: 4/23/2025

PROJECT NO. 49218.7 SHEET NO. 3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.  
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Top Elevation, Invert Elevation, Minimum Required Slope, Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class III, R.C. Pipe Class IV, R.C. Pipe Class V, Endwalls, Reinforced Endwalls, Drainage Structure, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a 'REMARKS' column and 'SHEET TOTALS'/'PROJECT TOTALS' rows at the bottom.

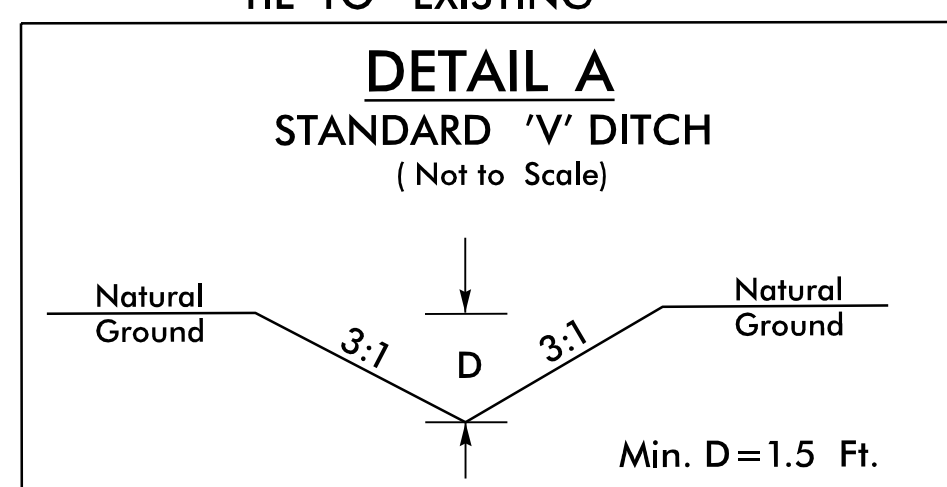
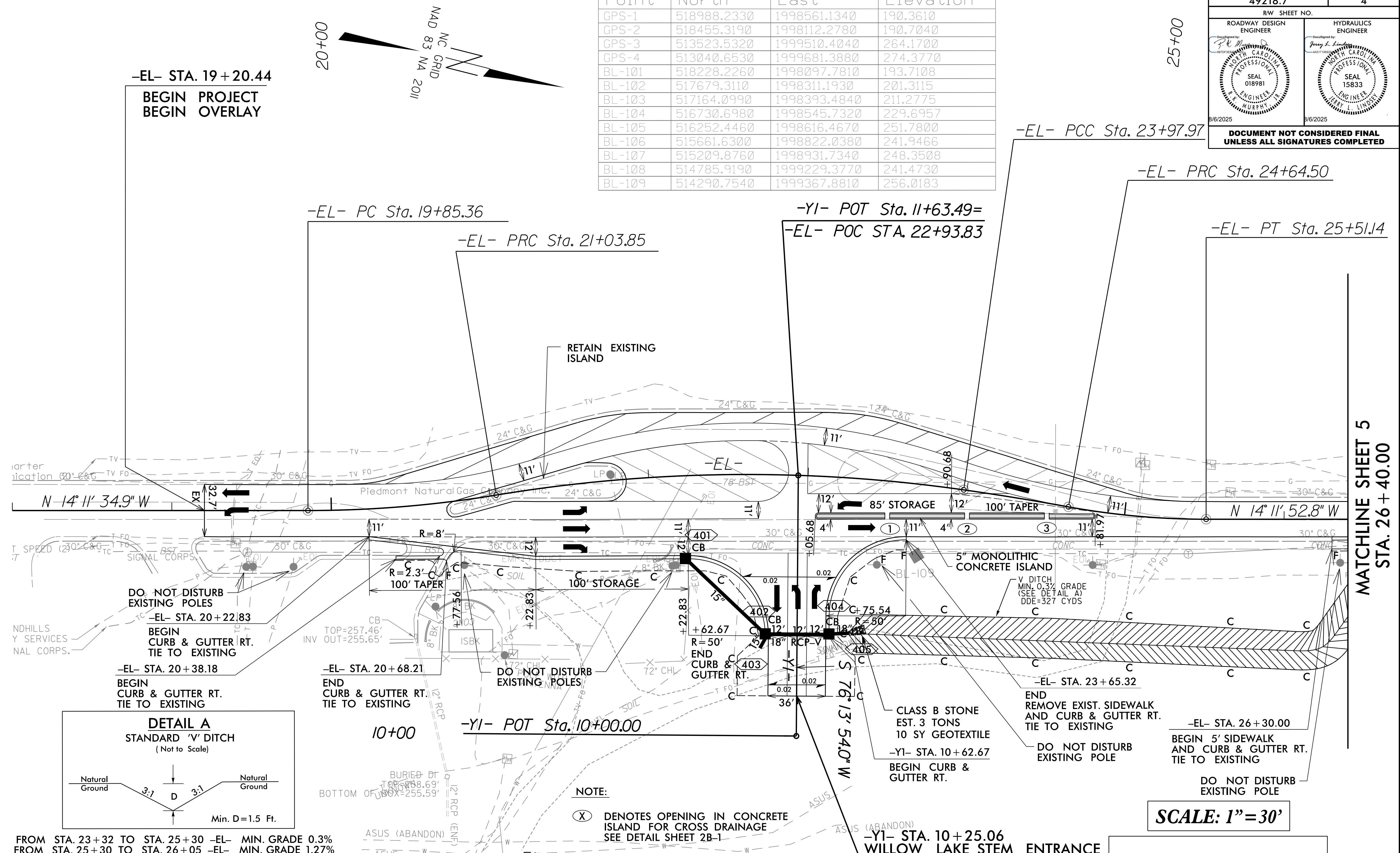


8/17/2025

REVISIONS

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
SEAL 018981 ENGINEER MURPHY	SEAL 15833 ENGINEER LINDSEY
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FROM STA. 23+32 TO STA. 25+30 -EL- MIN. GRADE 0.3%  
 FROM STA. 25+30 TO STA. 26+05 -EL- MIN. GRADE 1.27%  
 FROM STA. 26+05 TO STA. 26+58 -EL- MIN. GRADE 3.2%

Station	PI Sta	Delta	D	L	T	R
-EL- STA. 20+44.78	PI Sta 20+44.78	$\Delta = 9^\circ 23' 26.7''$ (LT)	$D = 7^\circ 55' 32.0''$	$L = 118.49'$	$T = 59.42'$	$R = 723.50'$
-EL- STA. 22+52.13	PI Sta 22+52.13	$\Delta = 17^\circ 30' 12.3''$ (RT)	$D = 5^\circ 57' 04.1''$	$L = 294.12'$	$T = 148.28'$	$R = 963.20'$
-EL- STA. 24+31.24	PI Sta 24+31.24	$\Delta = 2^\circ 12' 14.4''$ (RT)	$D = 3^\circ 18' 44.7''$	$L = 66.54'$	$T = 33.28'$	$R = 1,729.97'$
-EL- STA. 25+08.02	PI Sta 25+08.02	$\Delta = 10^\circ 19' 17.8''$ (LT)	$D = 11^\circ 54' 50.7''$	$L = 86.63'$	$T = 43.51'$	$R = 481.78'$

**NOTE:**  
 (X) DENOTES OPENING IN CONCRETE ISLAND FOR CROSS DRAINAGE  
 SEE DETAIL SHEET 2B-1

**SCALE: 1" = 30'**

**ROCK MERRITT AVE.**

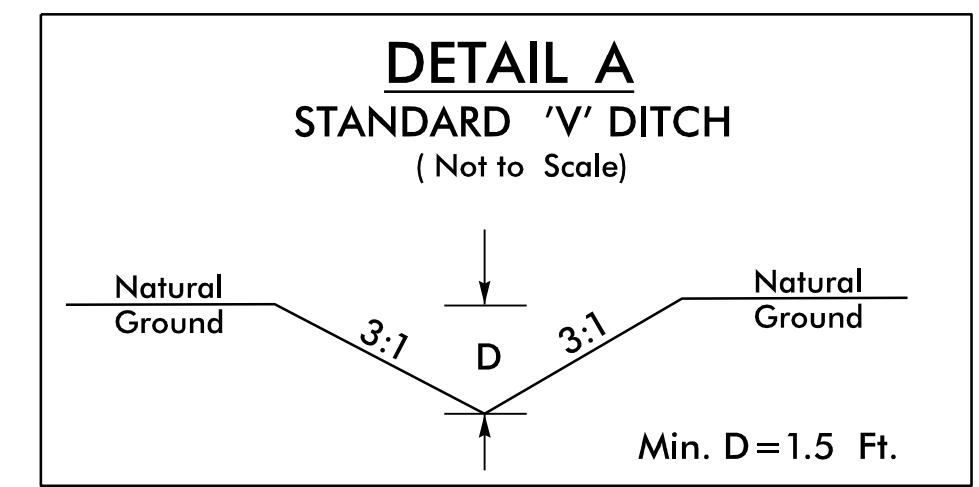
**49218.7**

**FORT BRAGG RESURFACING**

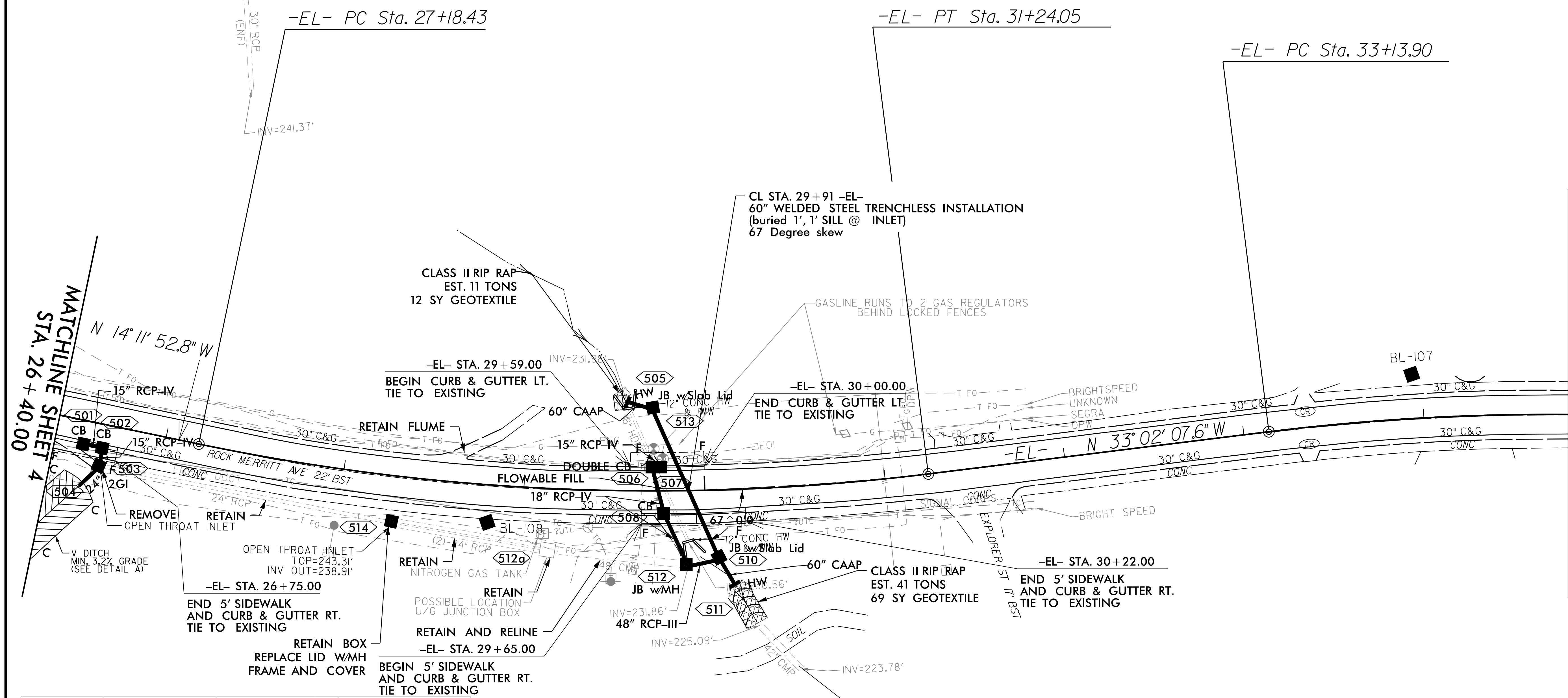
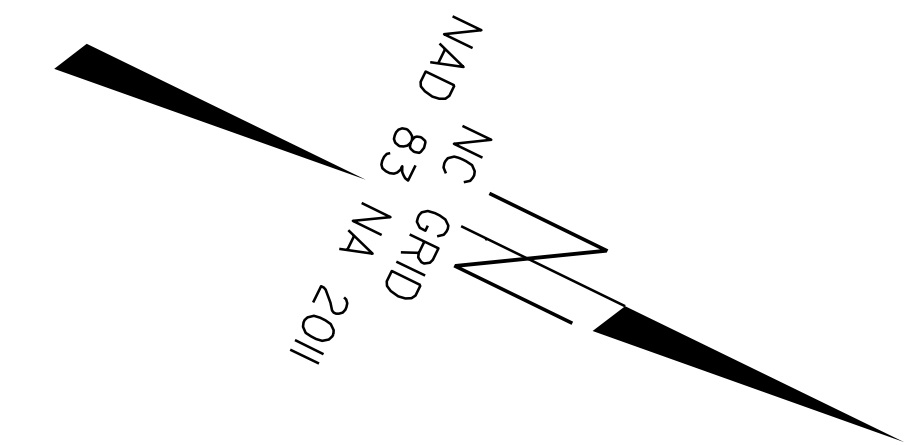
**MATCHLINE SHEET 5**  
**STA. 26 + 40.00**

5/27/2025  
 Rock Merritt Rd, PSH 04.dgn  
 [Signature]

PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>5</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
8/6/2025	8/6/2025
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

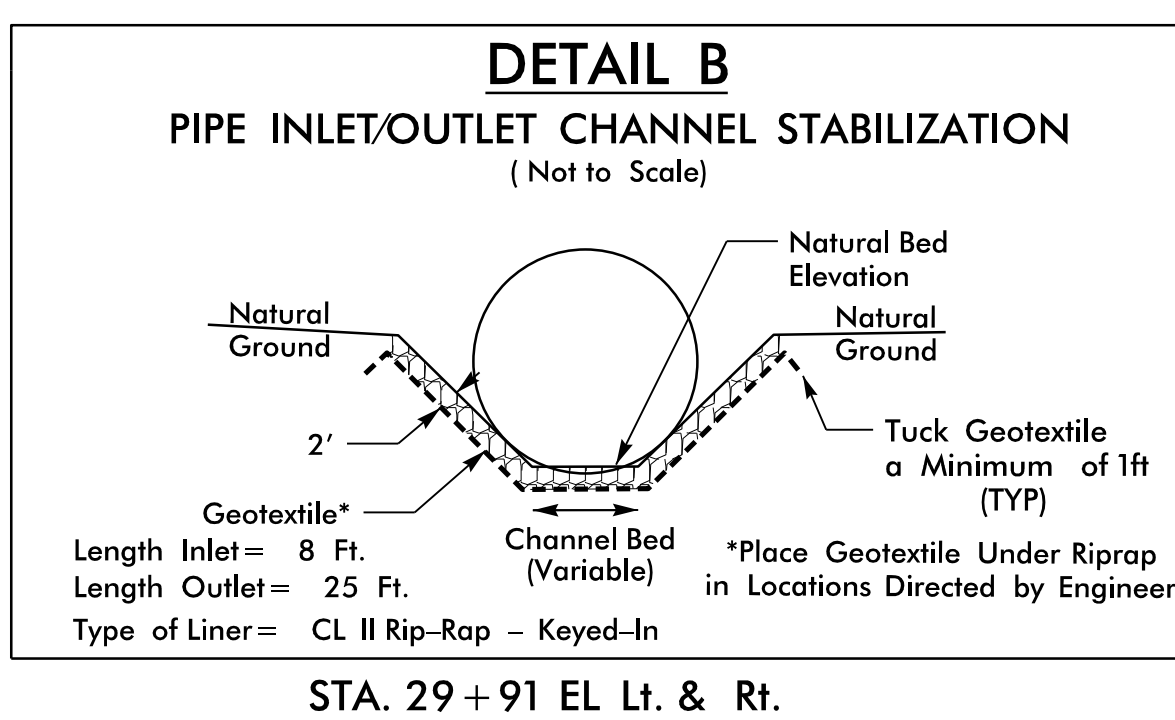


FROM STA. 23+32 TO STA. 25+30 -EL- MIN. GRADE 0.3%  
 FROM STA. 25+30 TO STA. 26+05 -EL- MIN. GRADE 1.27%  
 FROM STA. 26+05 TO STA. 26+58 -EL- MIN. GRADE 3.2%



Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

-EL-  
 PI Sta 29+23.14  
 $\Delta = 18^{\circ} 50' 14.8''$  (LT)  
 $D = 4^{\circ} 38' 38.8''$   
 $L = 405.62'$   
 $T = 204.71'$   
 $R = 1,234.07'$



**SCALE: 1" = 30'**

**ROCK MERRITT AVE.**

49218.7

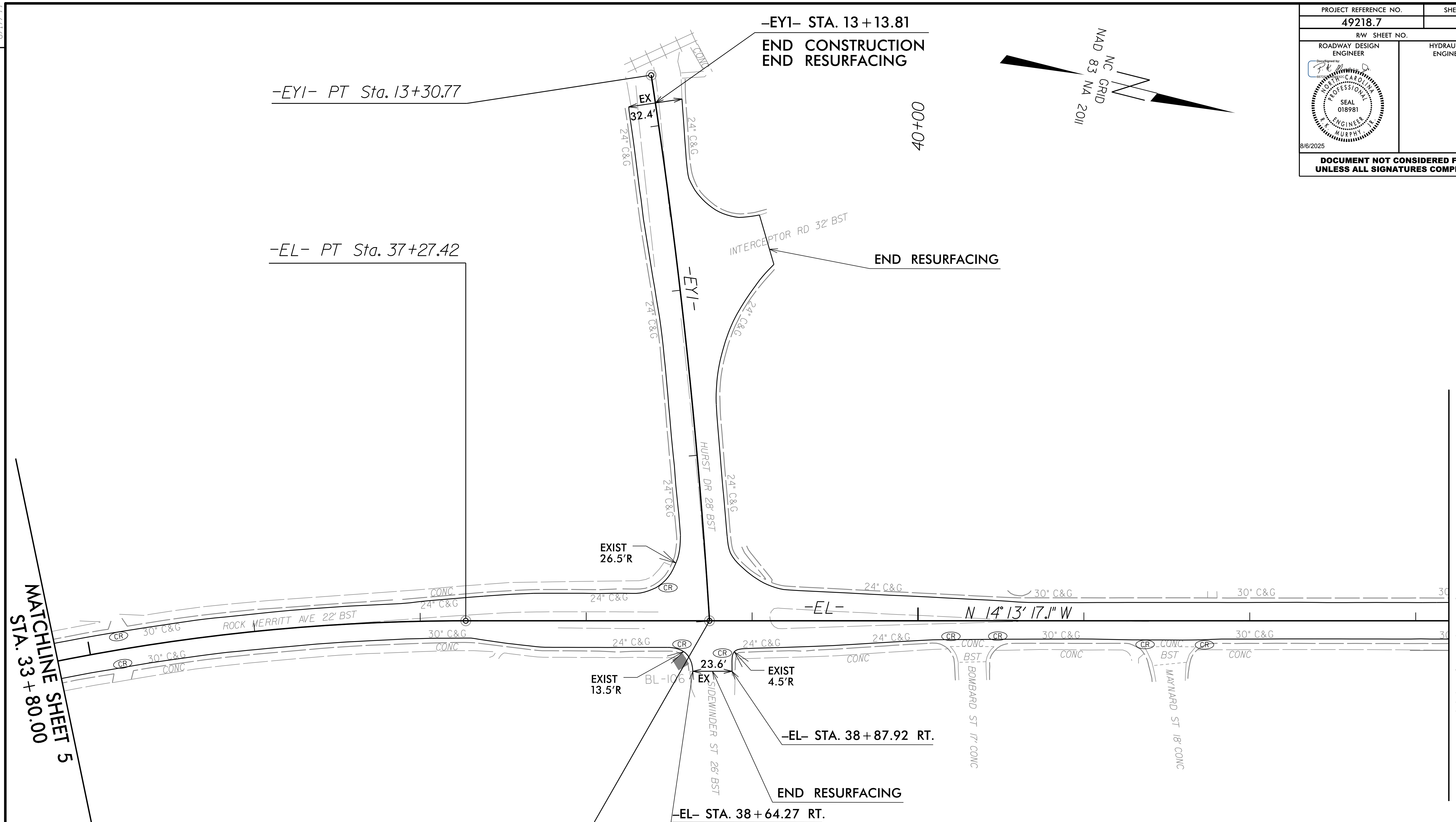
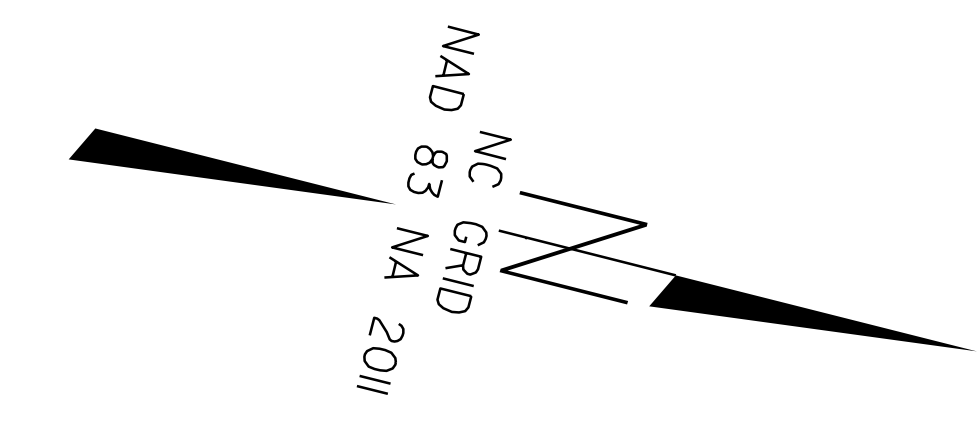
**FORT BRAGG RESURFACING**

REVISIONS

MATCHLINE SHEET 6  
STA. 33+80.00

MATCHLINE SHEET 4  
STA. 26+40.00

PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>6</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCHLINE SHEET 5  
 STA. 33 + 80.00

MATCHLINE SHEET 7  
 STA. 43 + 20.00

**-EYI-**  
 PI Sta 11+65.51  
 $\Delta = 5^\circ 13' 51.3''$  (LT)  
 $D = 1^\circ 34' 53.1''$   
 $L = 330.77'$   
 $T = 165.51'$   
 $R = 3,623.18'$

**-EYI-** PC Sta. 10+00.00=  
**-EL-** POT Sta. 38+74.32

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

**SCALE: 1" = 30'**

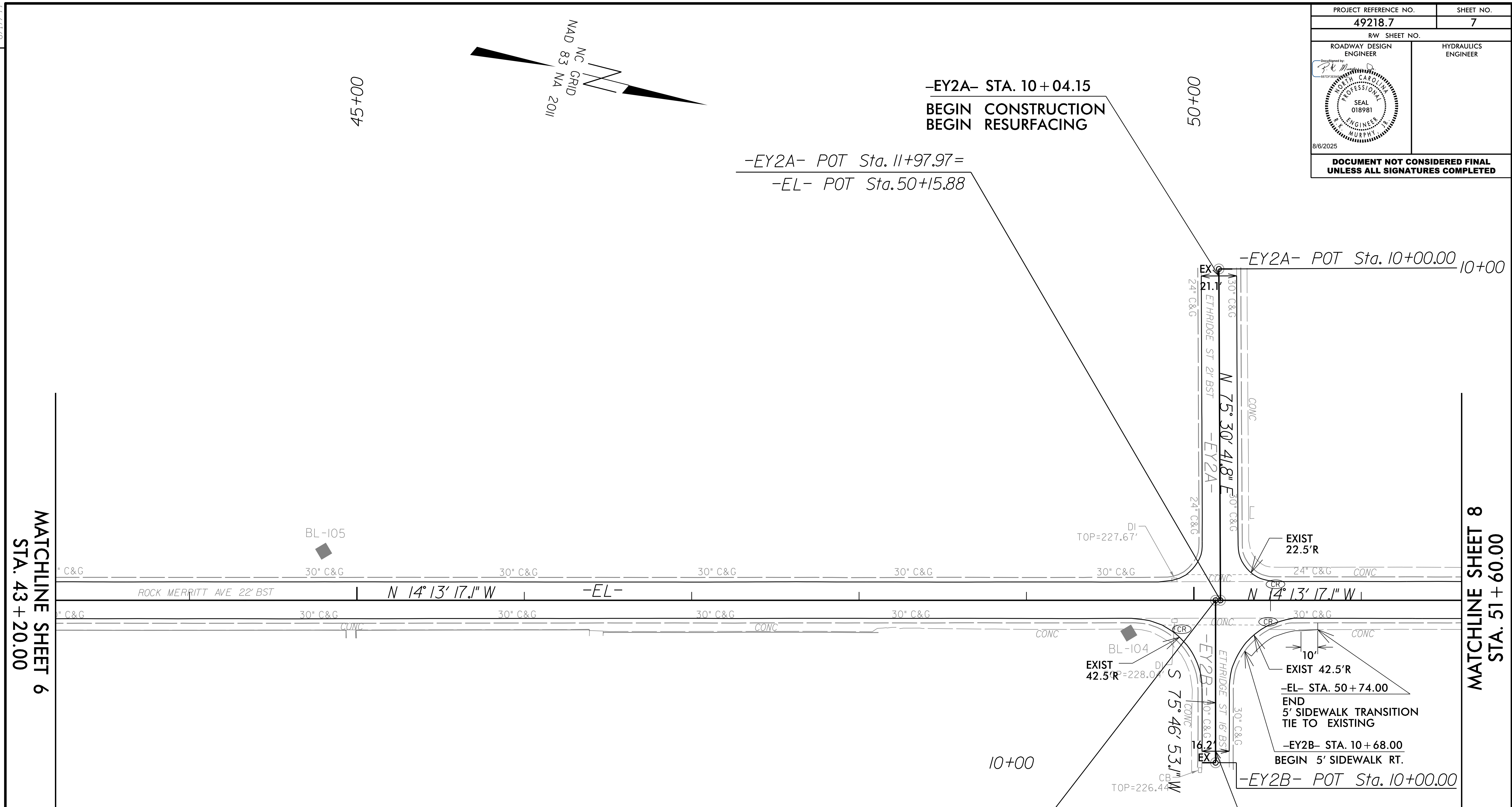
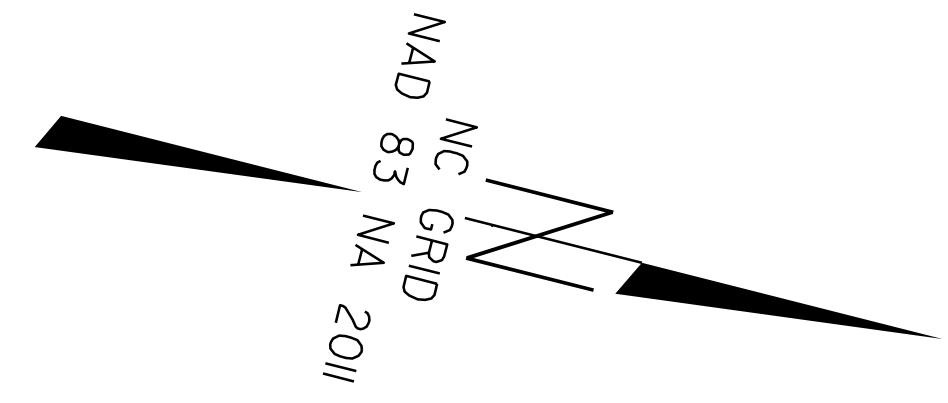
**ROCK MERRITT AVE.**

**49218.7**  
**FORT BRAGG RESURFACING**

REVISIONS

5/27/2025  
 R. Merritt... Rd... PSH... 06.dgn  
 ITI...

PROJECT REFERENCE NO.	SHEET NO.
49218.7	7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCHLINE SHEET 6  
 STA. 43 + 20.00

MATCHLINE SHEET 8  
 STA. 51 + 60.00

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

-EY2B- POT Sta. 10+97.04=  
-EL- POT Sta. 50+12.98

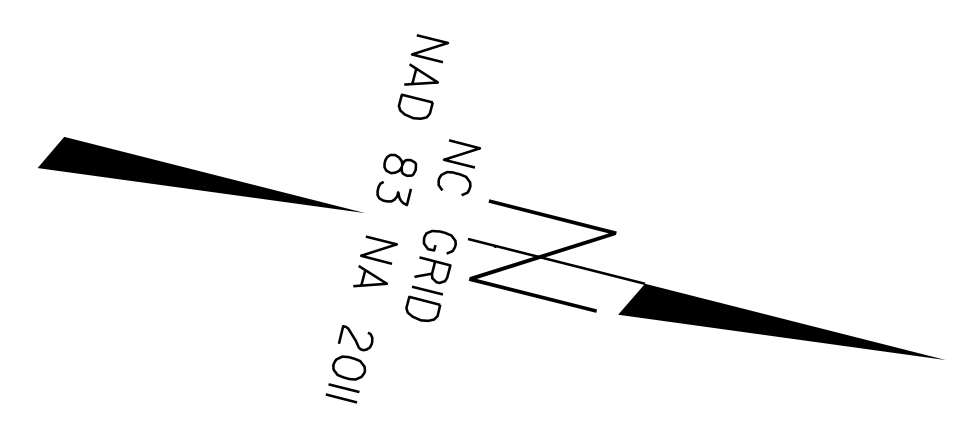
SCALE: 1" = 30'

49218.7  
**FORT BRAGG RESURFACING**

REVISIONS

5/27/2025  
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 KSK

8/17/99



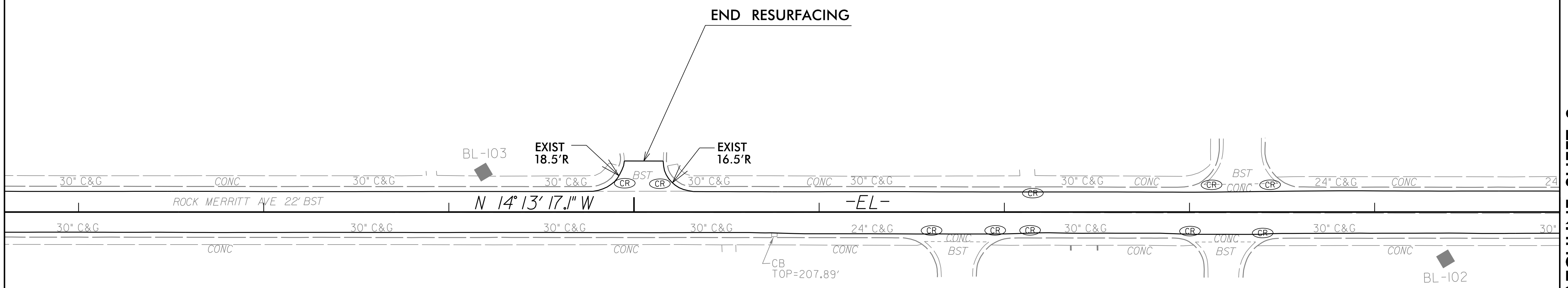
PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>8</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER
8/6/2025	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

55+00

REVISIONS

MATCHLINE SHEET 7  
STA. 51 + 60.00

MATCHLINE SHEET 9  
STA. 60 + 00.00



Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

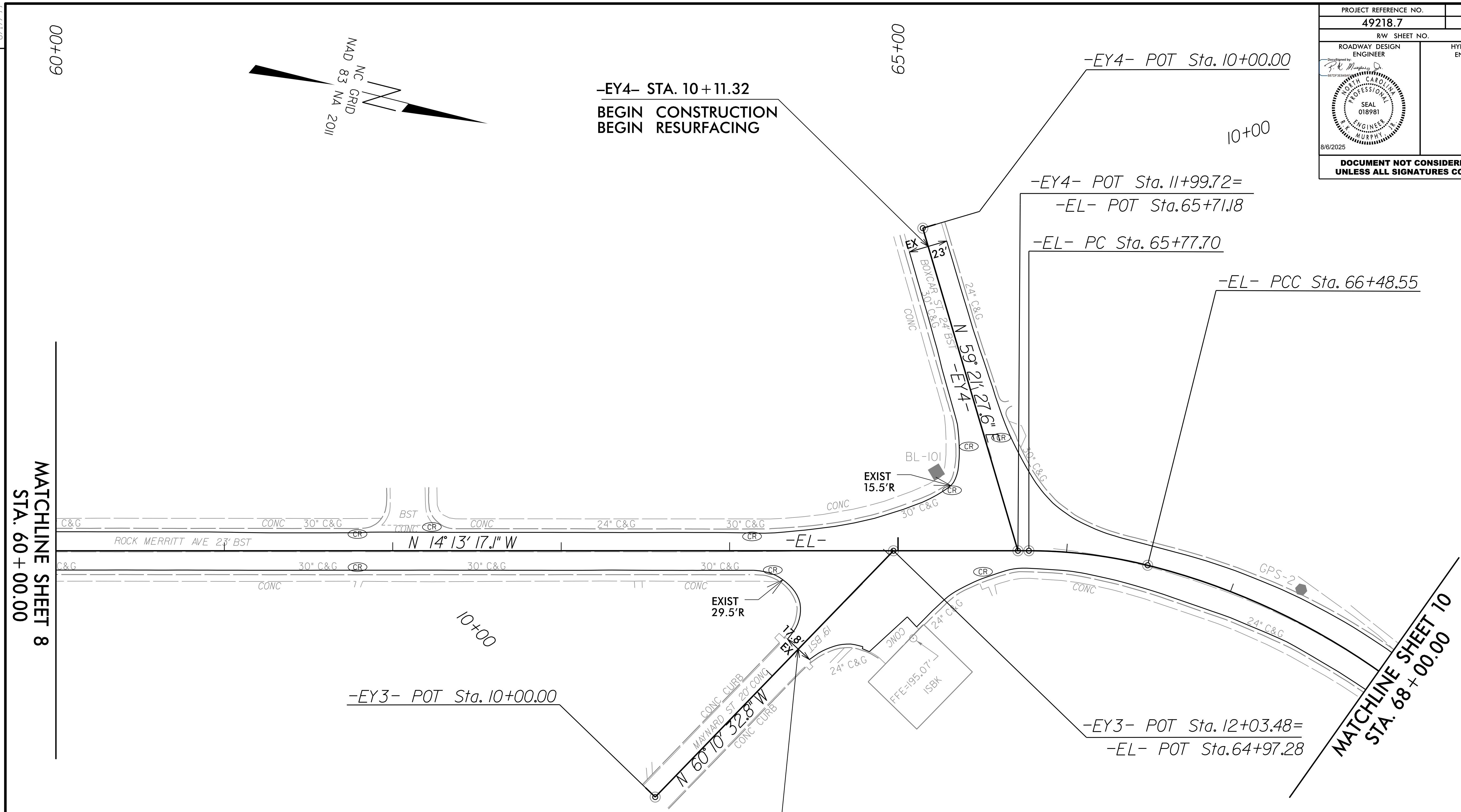
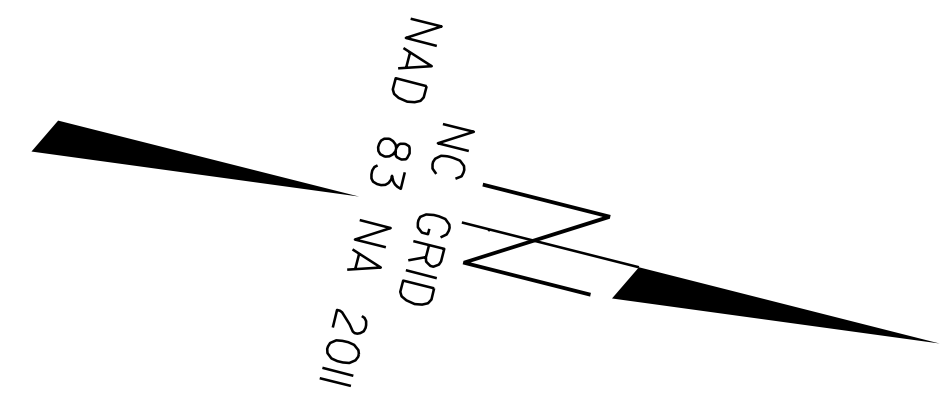
**SCALE: 1" = 30'**

**ROCK MERRITT AVE.**

**49218.7**  
**FORT BRAGG RESURFACING**

5/27/2025  
\\rockmerritt\psh\_08.dgn  
IT:Rskenned

PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>9</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



REVISIONS  
 MATCHLINE SHEET 8  
 STA. 60 + 00.00

MATCHLINE SHEET 10  
 STA. 68 + 00.00

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

**-EY3- STA. 11+22.22**  
**BEGIN CONSTRUCTION**  
**BEGIN RESURFACING**

-EL-

<i>PI Sta 66+13.48</i> $\Delta = 13^\circ 58' 26.3" (RT)$ $D = 19^\circ 43' 22.5"$ $L = 70.85'$ $T = 35.78'$ $R = 291.94'$	<i>PI Sta 68+04.37</i> $\Delta = 4^\circ 41' 42.3" (RT)$ $D = 14^\circ 02' 17.1"$ $L = 297.01'$ $T = 155.82'$ $R = 409.17'$
---	--

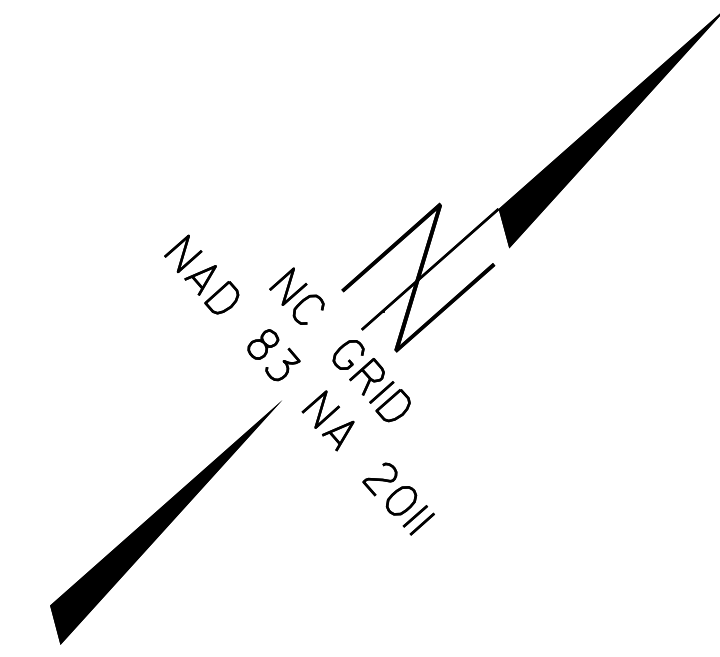
**SCALE: 1" = 30'**

**ROCK MERRITT AVE.**

**49218.7**  
**FORT BRAGG RESURFACING**

5/27/2025  
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 ITB:skenned

PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>10</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



**MATCHLINE SHEET 9**  
**STA. 68+00.00**

-EL-	-EL-
PI Sta 66+13.48	PI Sta 68+04.37
$\Delta = 13^\circ 58' 26.3''$ (RT)	$\Delta = 41^\circ 41' 42.3''$ (RT)
D = 19° 43' 22.5"	D = 14° 02' 17.1"
L = 70.85'	L = 297.01'
T = 35.78'	T = 155.82'
R = 291.94'	R = 409.17'

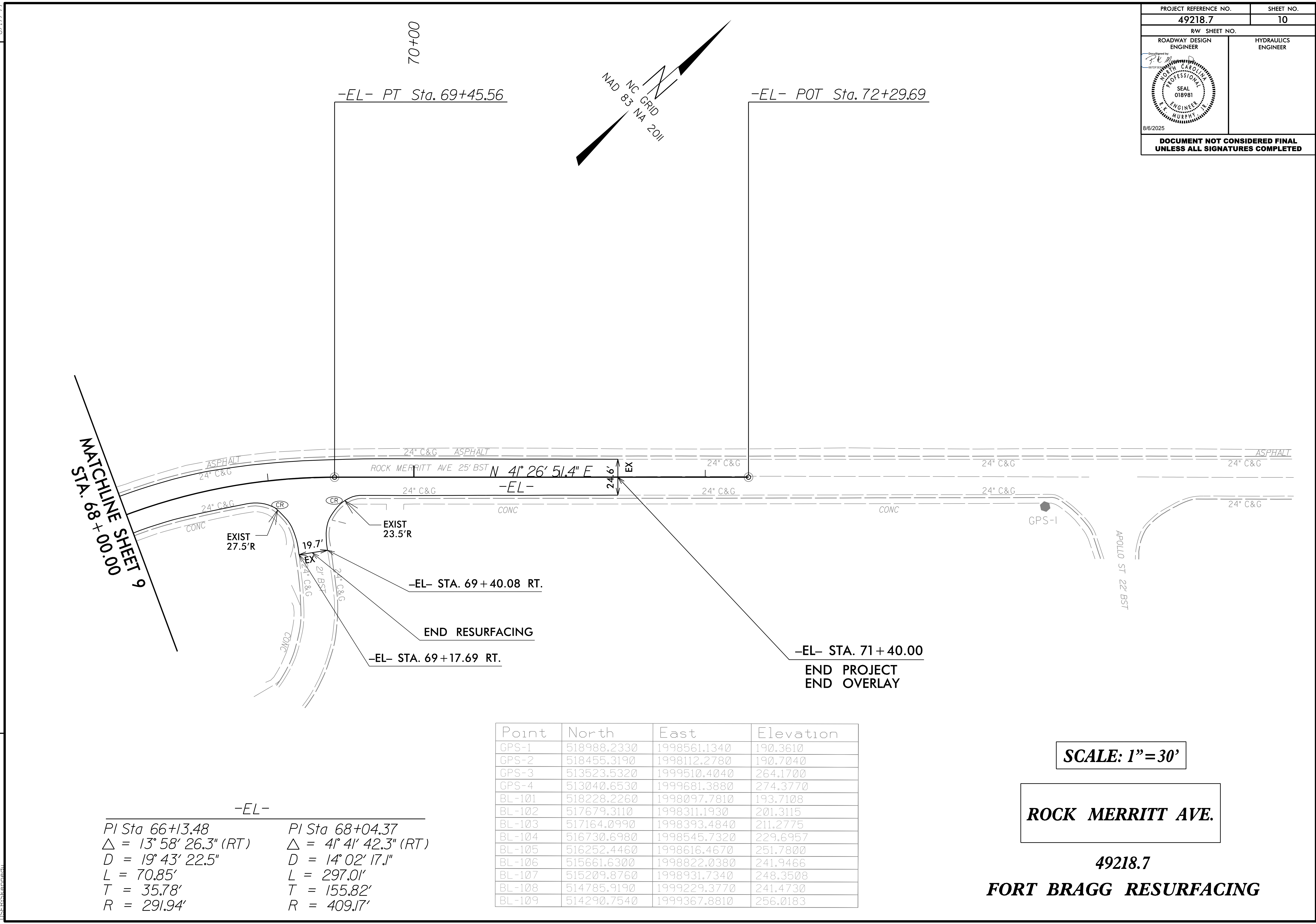
Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

**SCALE: 1" = 30'**

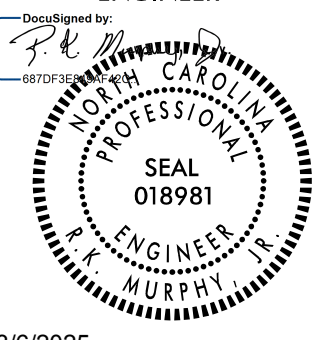
**ROCK MERRITT AVE.**

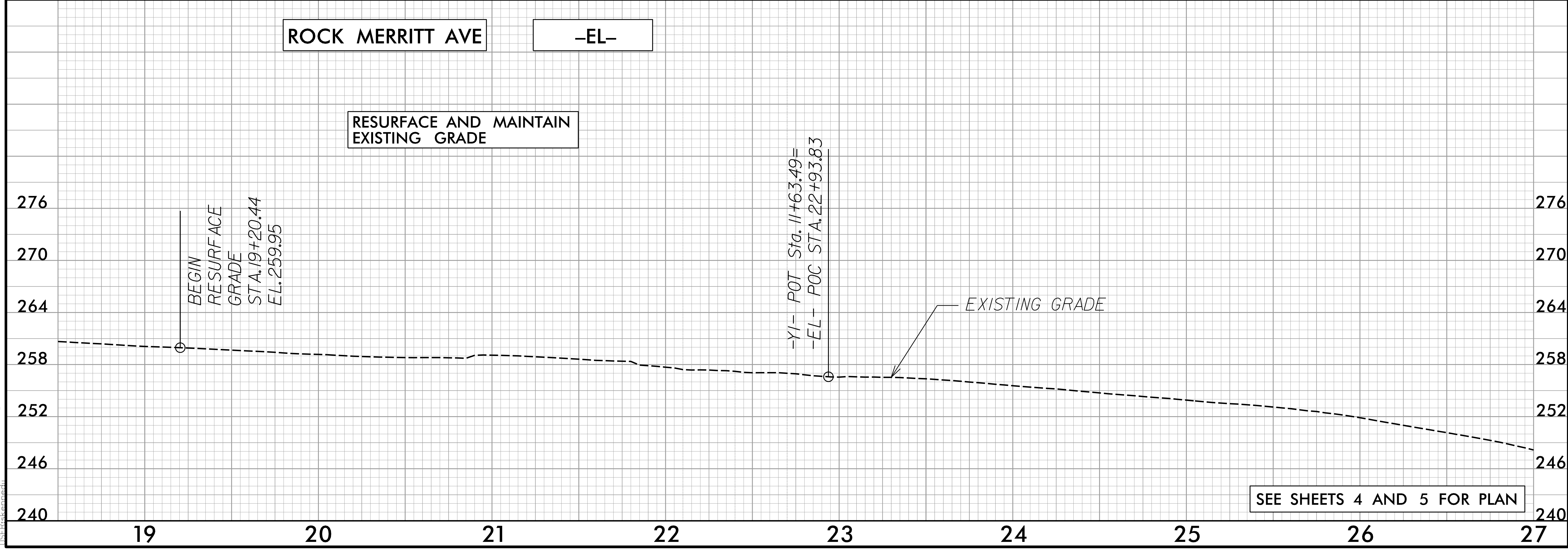
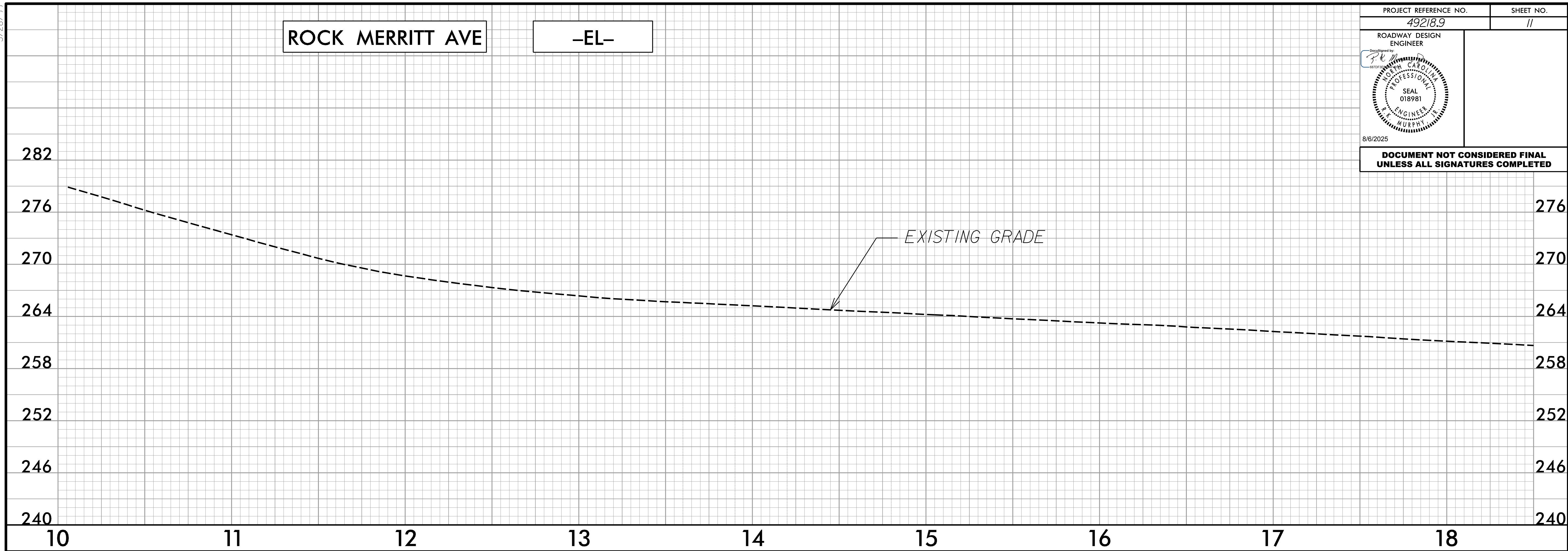
**49218.7**  
**FORT BRAGG RESURFACING**

REVISIONS  
 5/27/2025  
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 5:\Projects\RockMerritt\RockMerritt\_PSH\_10.dgn  
 K.Murphy



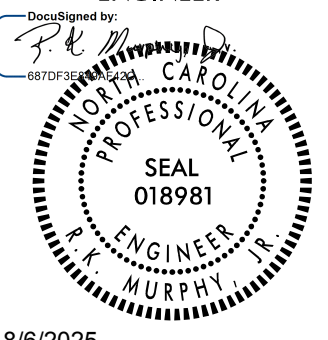
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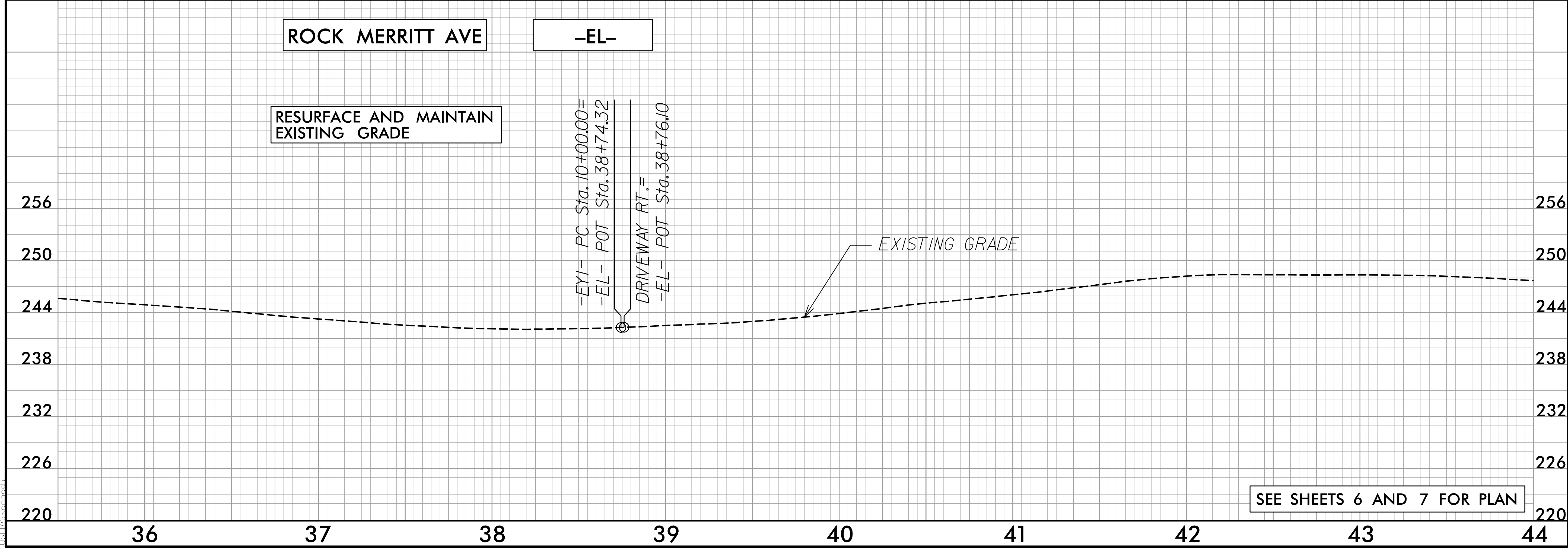
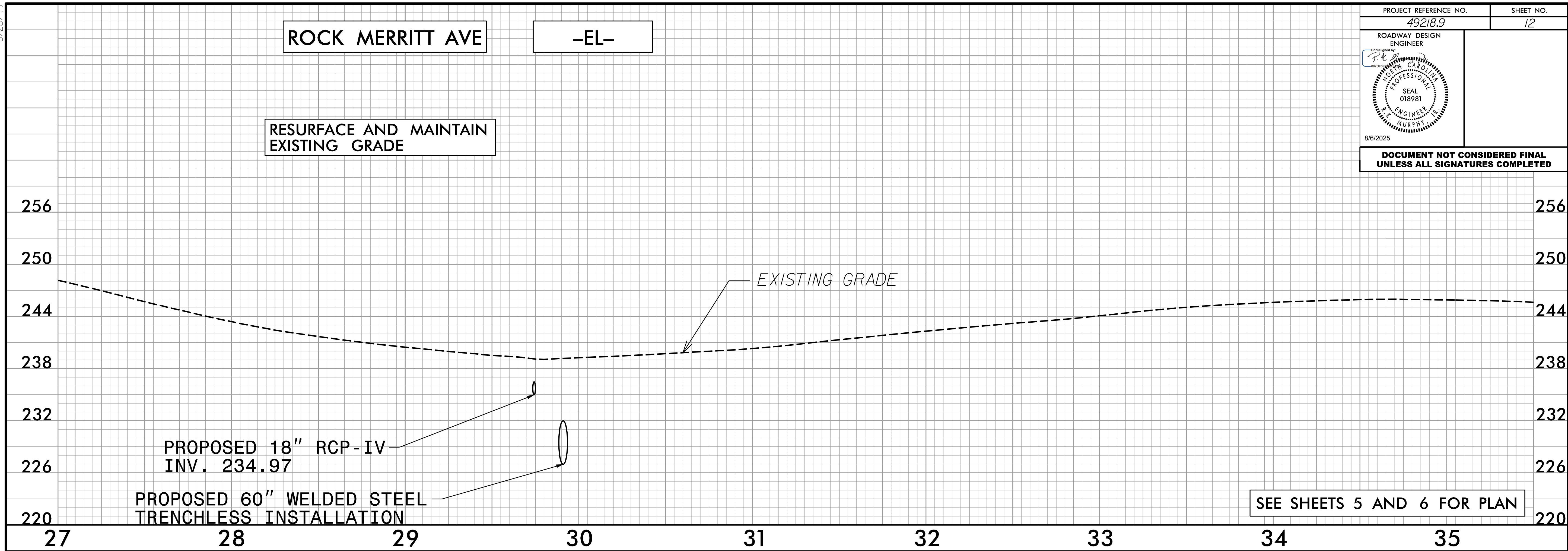
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ROADWAY DESIGN ENGINEER	
	
8/6/2025	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



4/17/2025 Merritt\_Rd\_PSH\_11.dgn

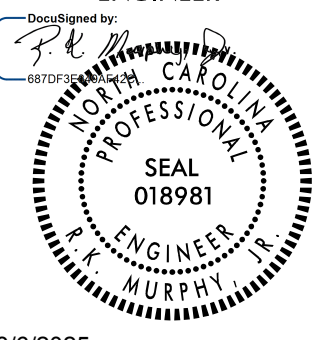
5/28/25

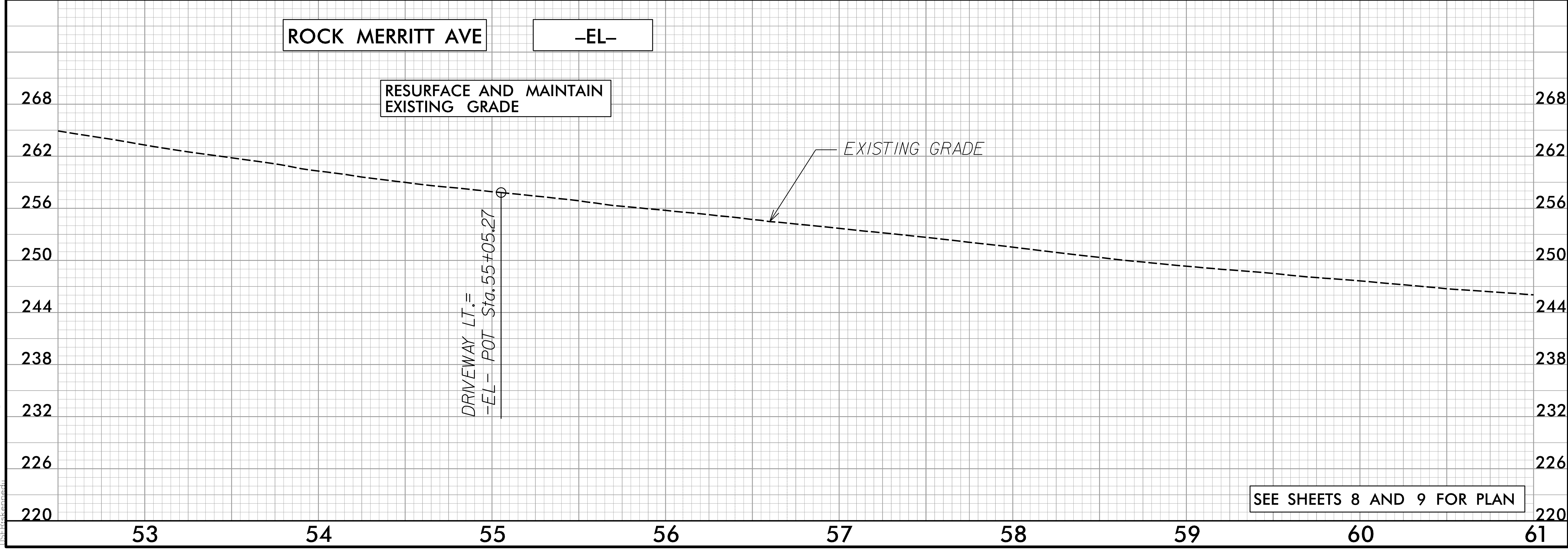
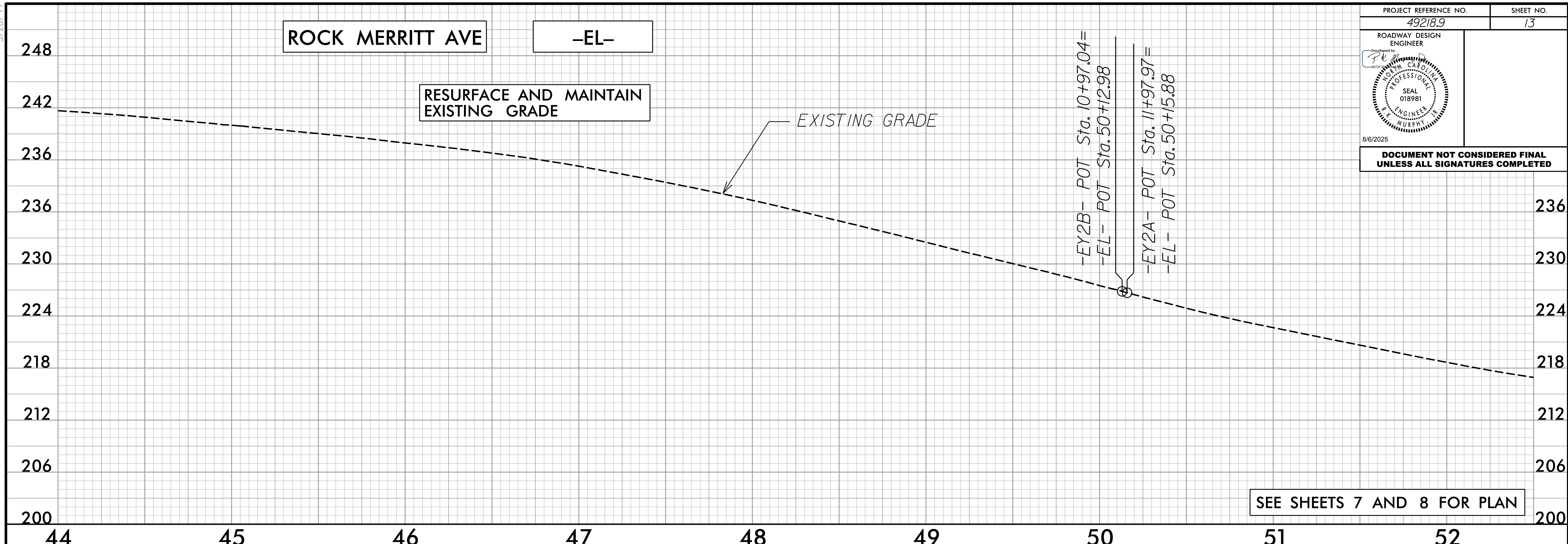
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ROADWAY DESIGN ENGINEER	
	
8/6/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



5/27/2025  
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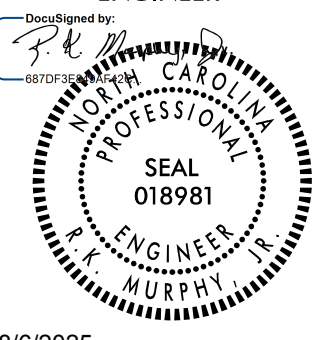
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PROJECT REFERENCE NO. 49218.9	SHEET NO. 13
ROADWAY DESIGN ENGINEER	
	
8/6/2025	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

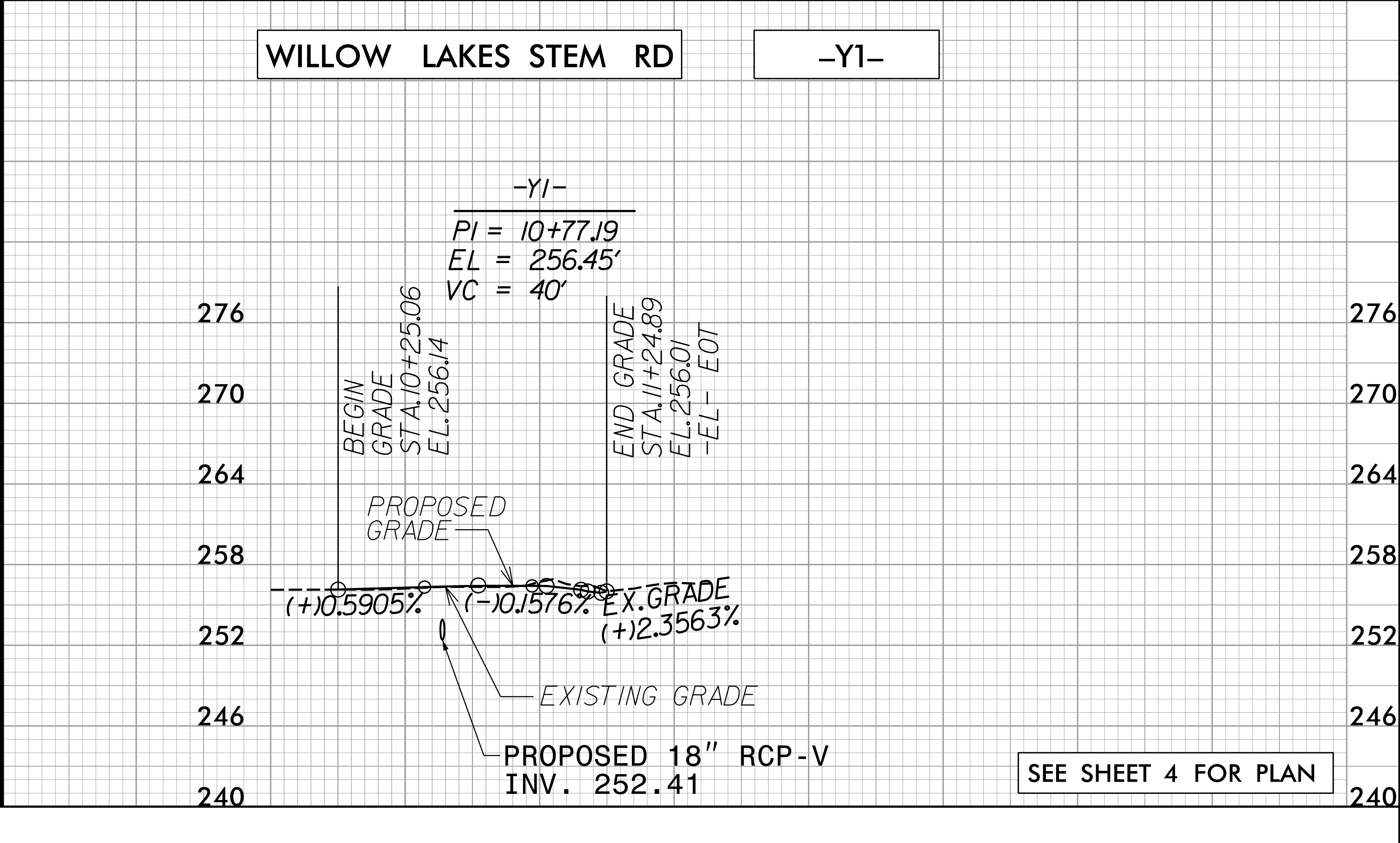
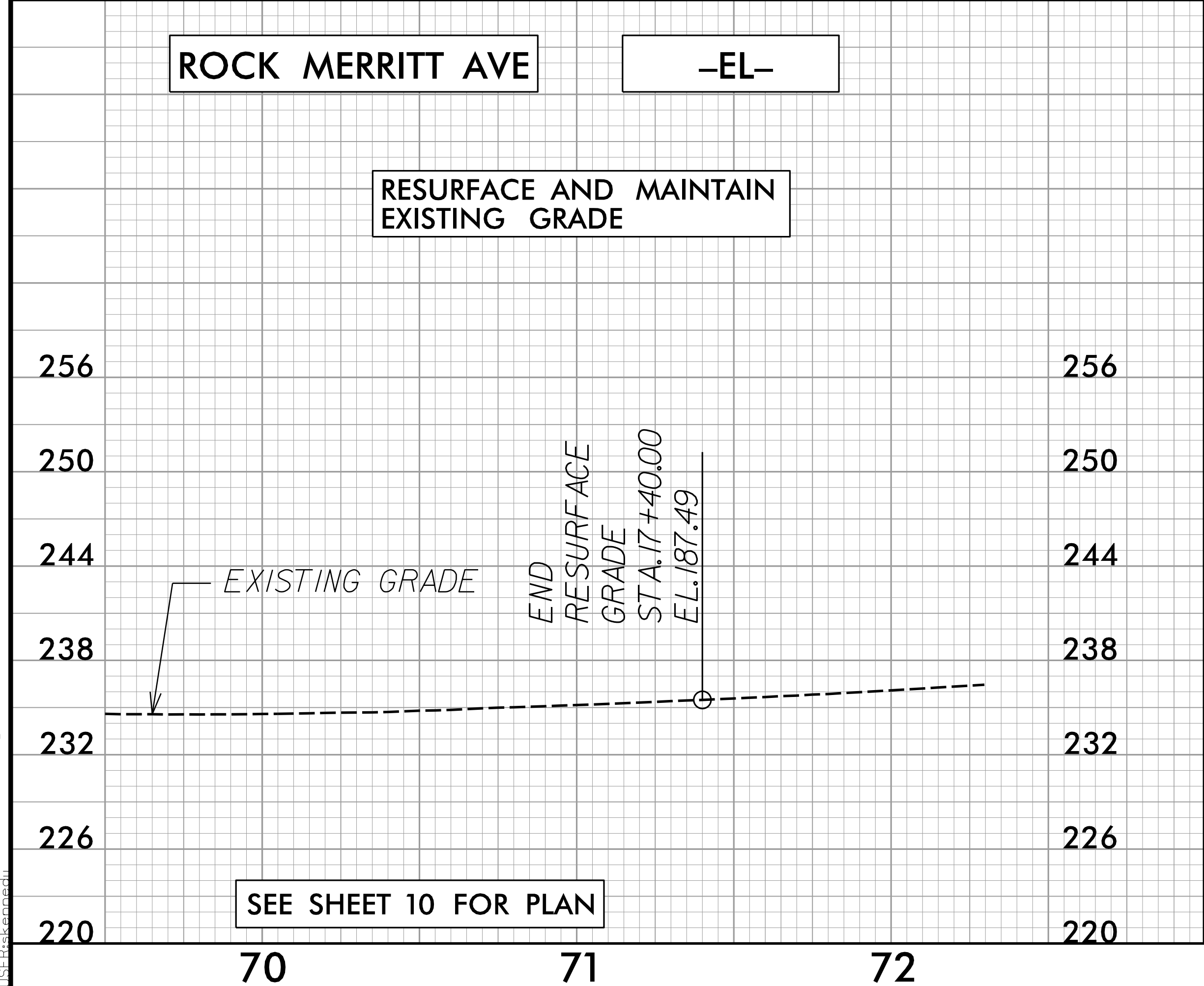
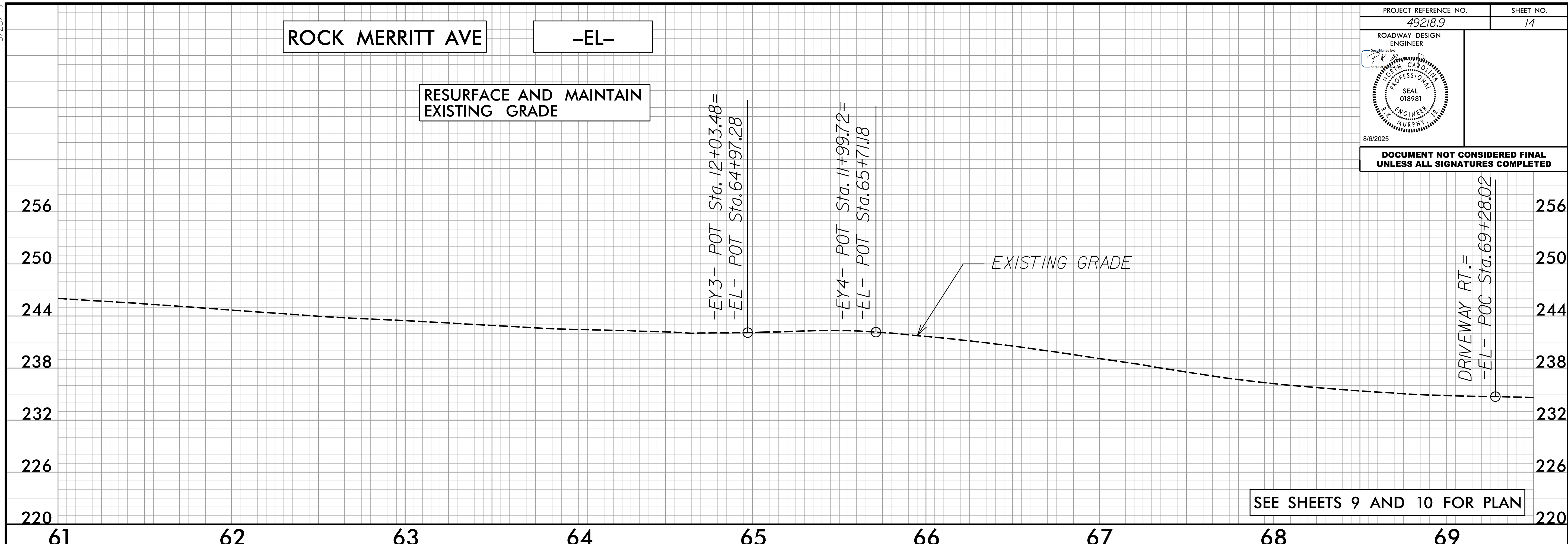


4/17/2025 Merritt.Rd\_PSH\_13.dgn

5/28/25

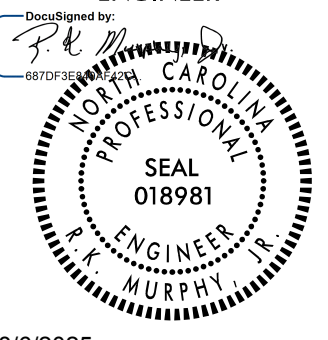
PROJECT REFERENCE NO. 49218.9	SHEET NO. 14
ROADWAY DESIGN ENGINEER	
	
8/6/2025	

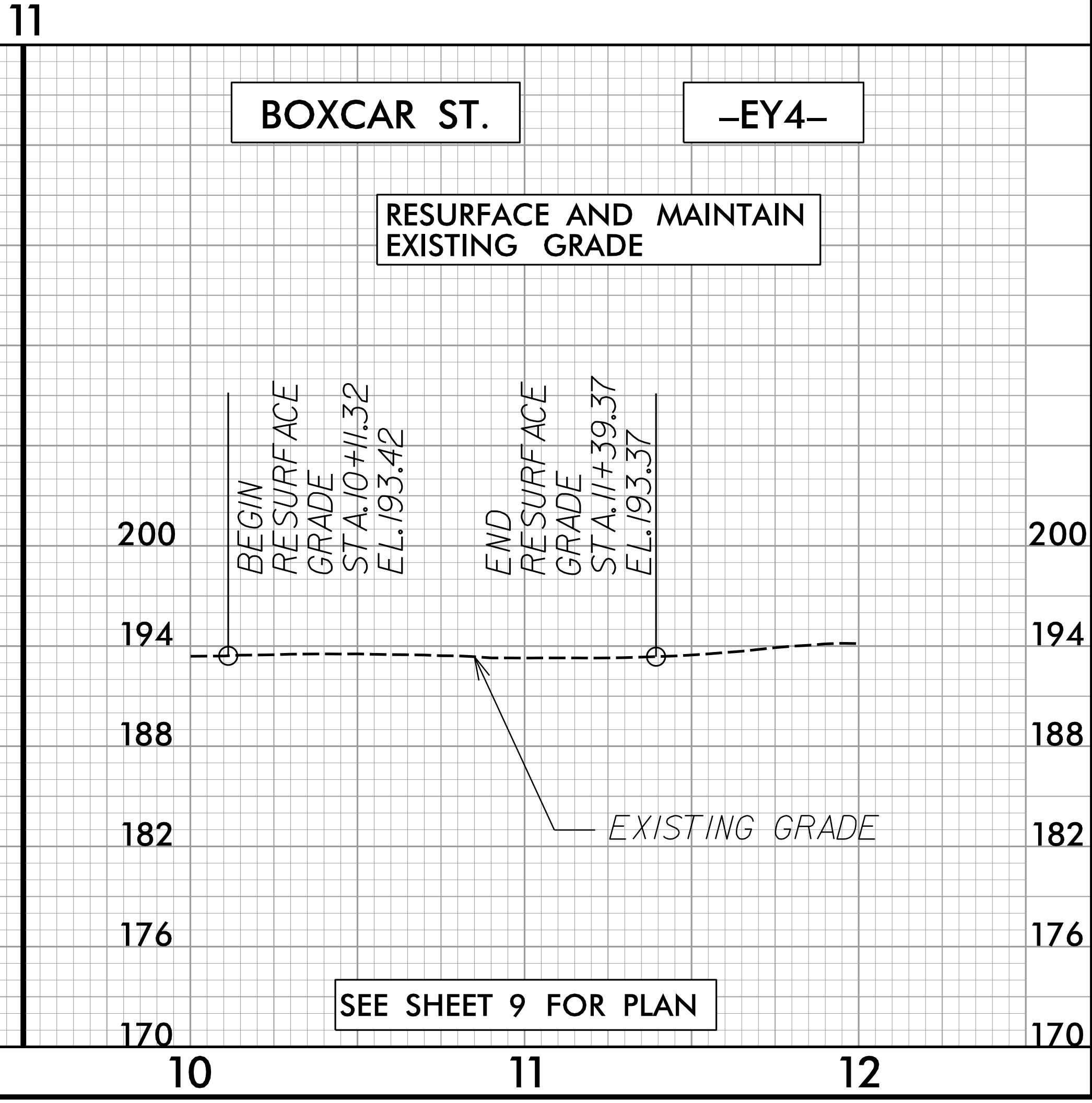
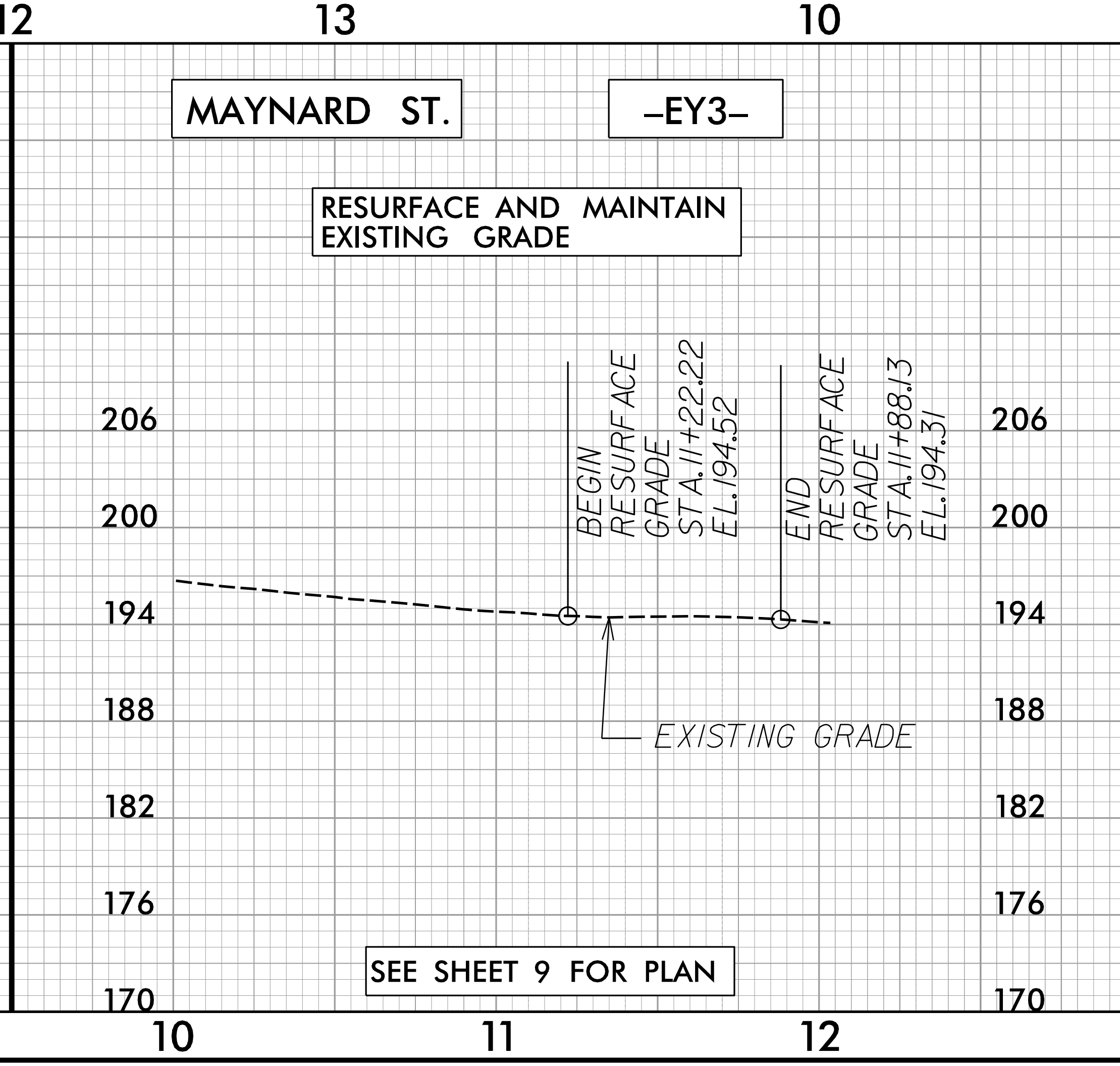
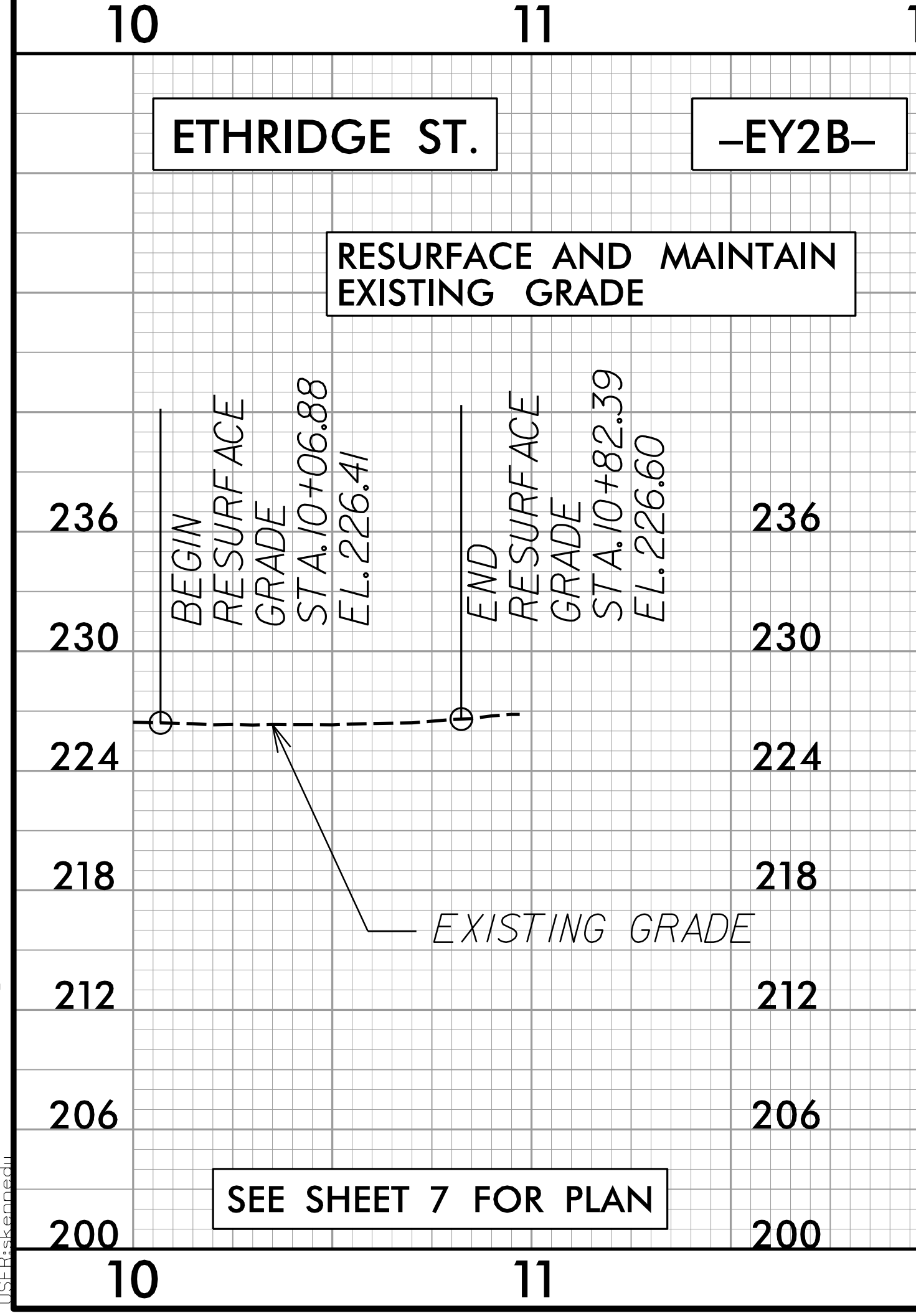
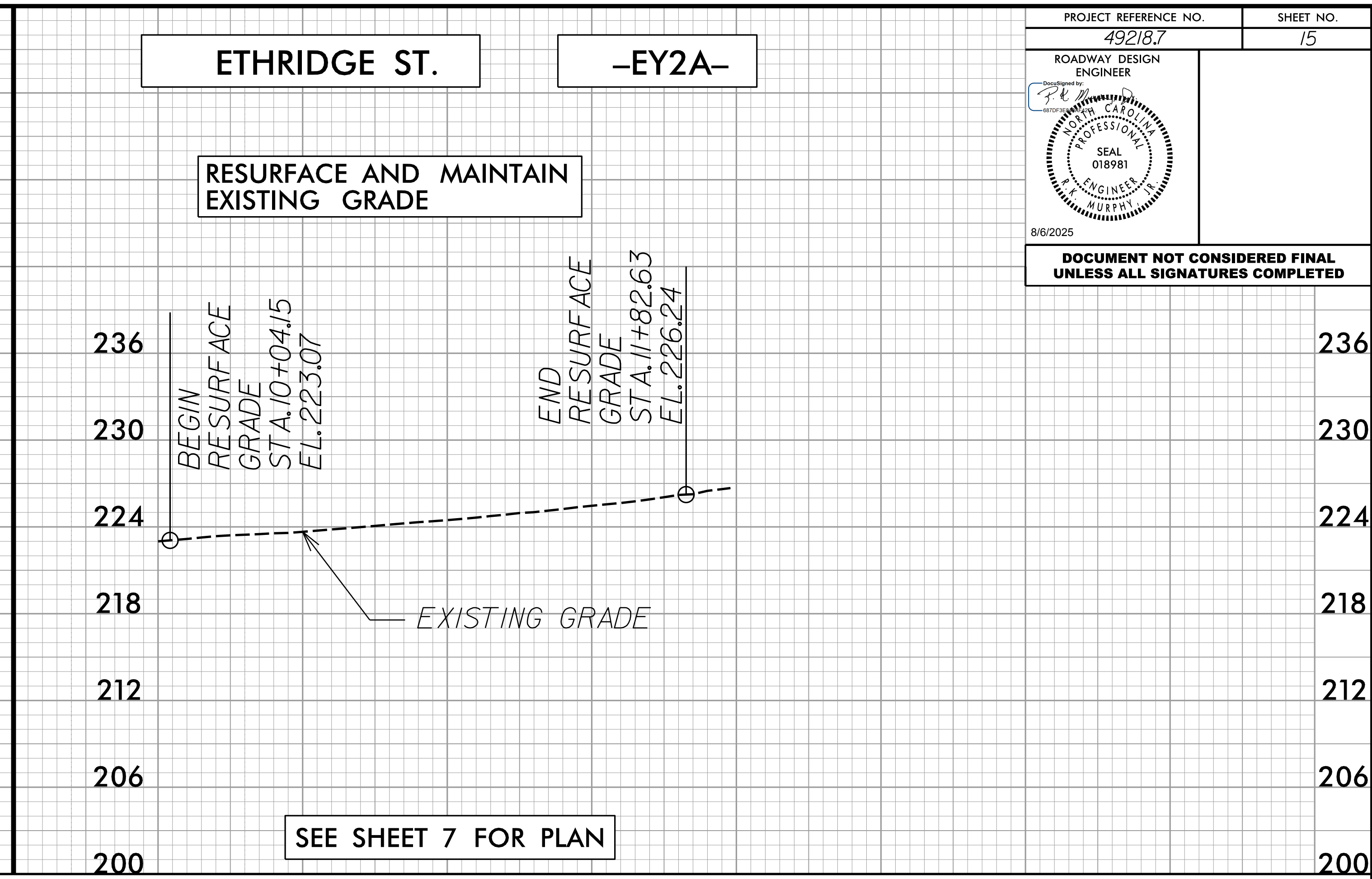
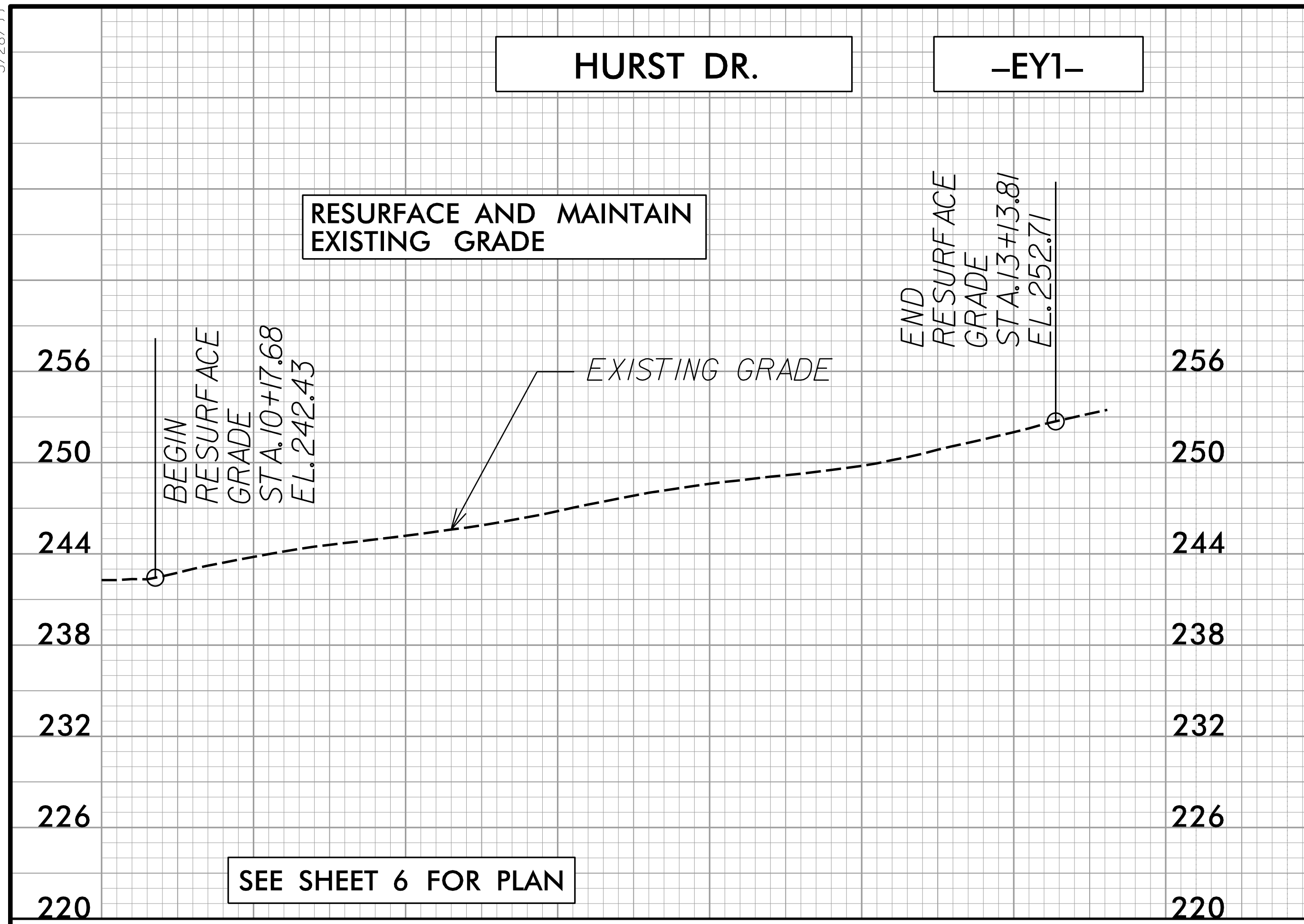
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4/17/2025 Merritt.Rd\_PSH\_14.dgn

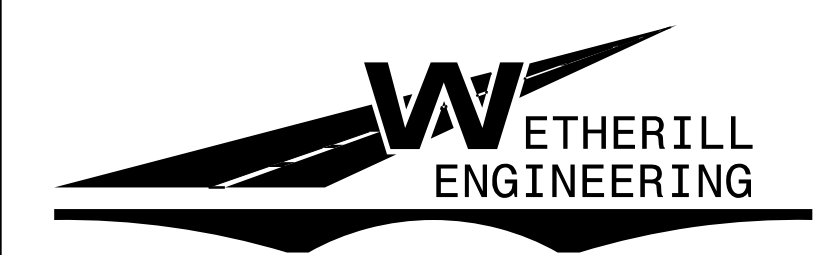
5/28/99

PROJECT REFERENCE NO. 49218.7	SHEET NO. 15
ROADWAY DESIGN ENGINEER	
	
8/6/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



4/17/2025 Merritt.Rd\_PSH\_15.dgn  
15:58:33

5/14/25



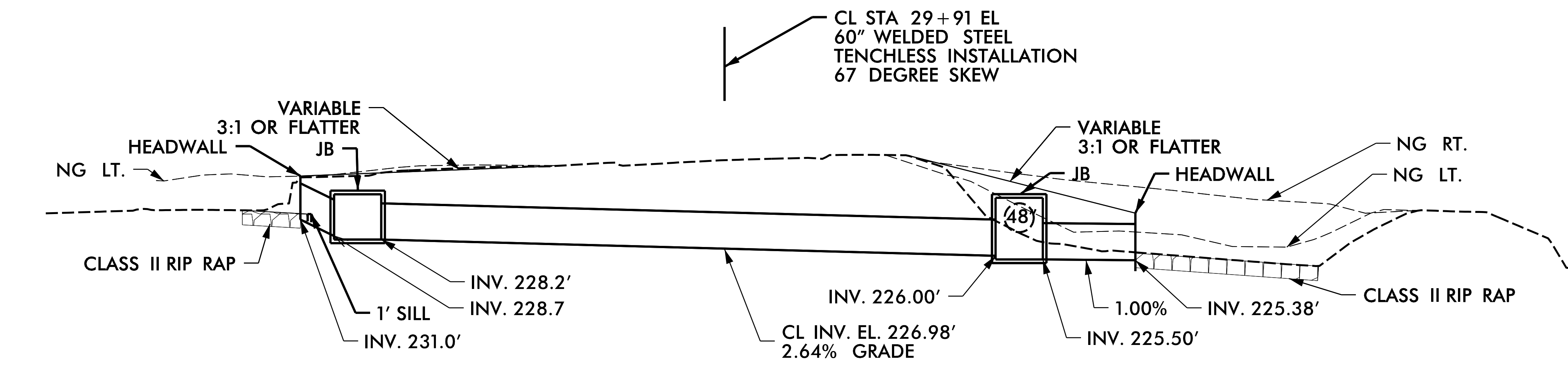
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. 49218.7	SHEET NO. 16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
SEAL 018981 R. MURPHY 8/6/2025	SEAL 15833 JERRY L. LINDSEY 8/6/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

### ROCK MERRITT AVE

240  
230  
220  
210  
200  
190  
180  
170  
160  
150  
140  
130  
120  
110  
100



10

11

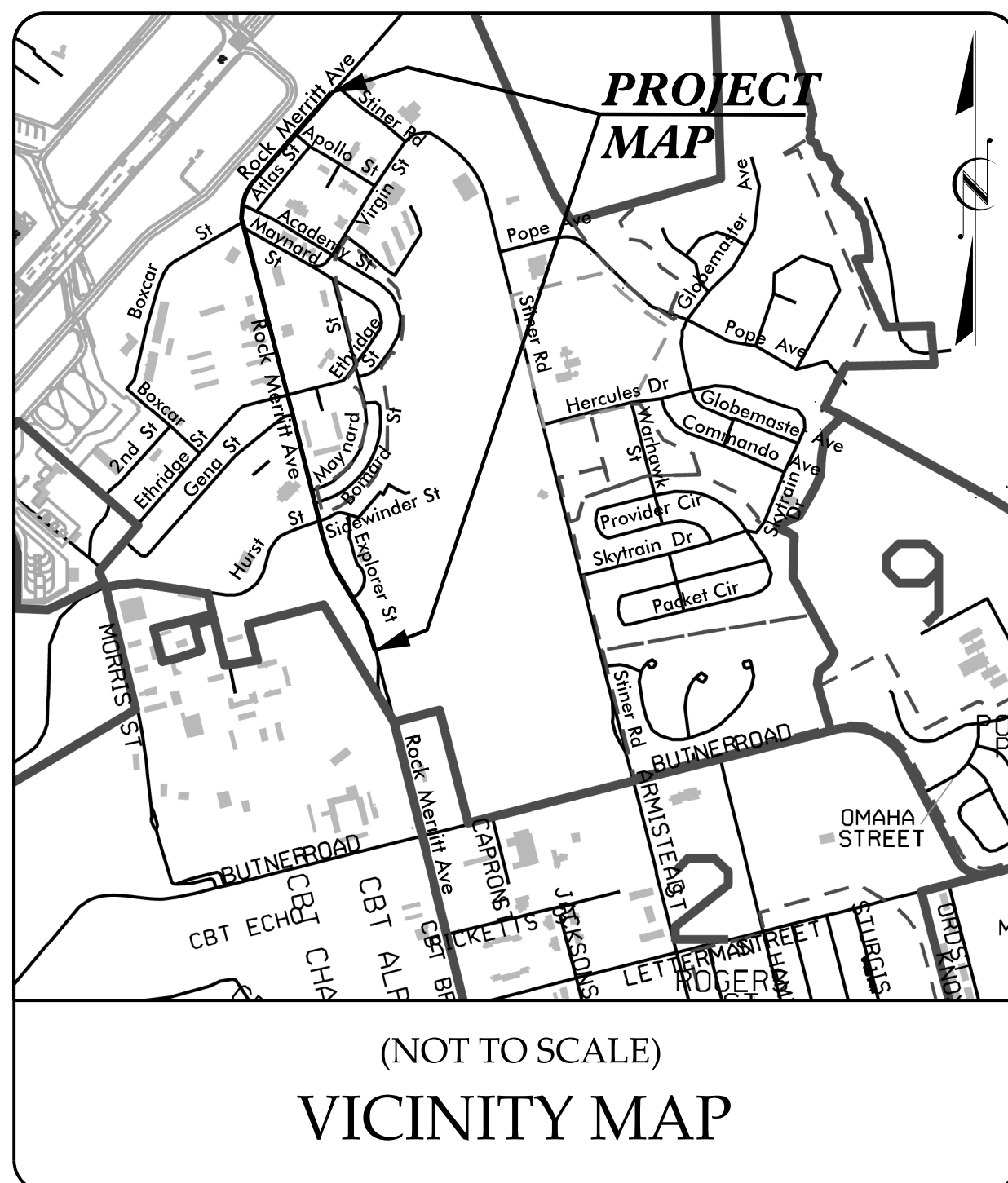
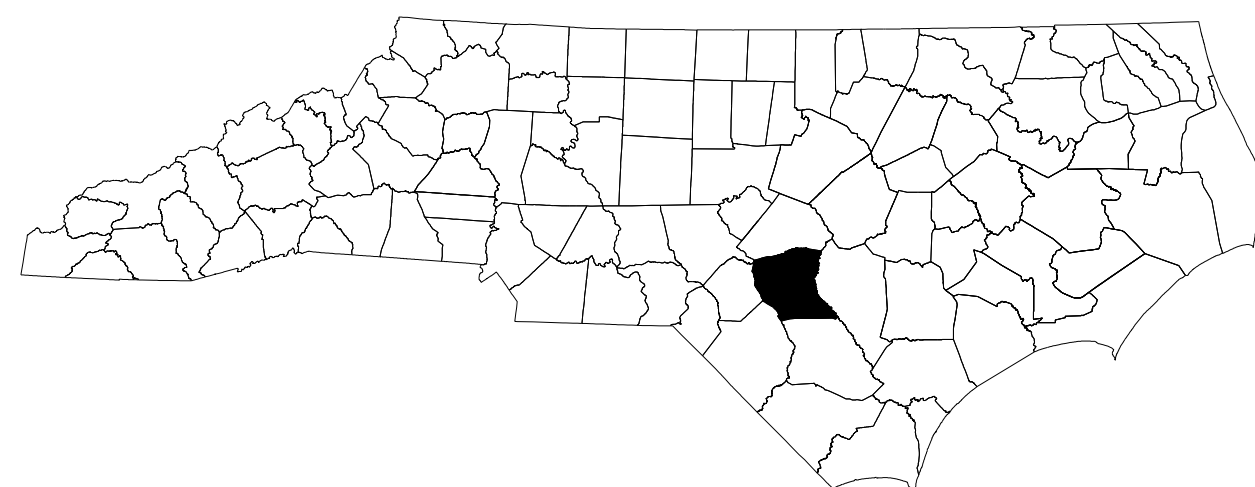
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5/27/2025  
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**CUMBERLAND COUNTY**



**LOCATION: ROCK MERRITT AVE  
FROM THE FORMER ACCESS CONTROL POINT  
NORTH OF BUTNER RD TO APPROXIMATELY  
0.15 MILES NORTH OF BOXCAR ST**

**TYPE OF WORK: RESURFACING, PAVEMENT REHABILITATION, MILLING  
GRADING, DRAINAGE IMPROVEMENTS, SIDEWALK, CURB  
AND GUTTER, ADA RAMP, AND PAVEMENT MARKINGS**

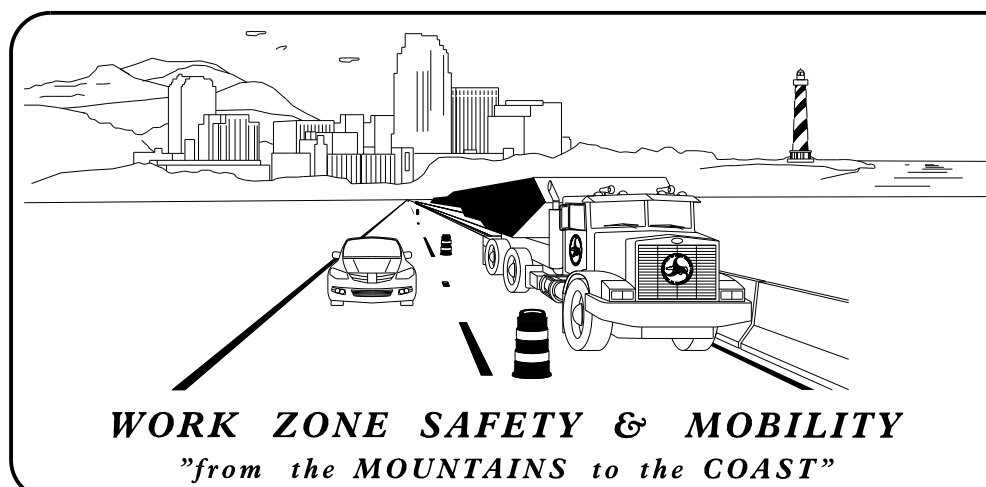
<b>INDEX OF SHEETS</b>	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-01	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-01A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-01B	SIGN AND DEVICE LEGEND
TMP-02	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES) AND PHASING
TMP-03	SPECIAL SIGN DESIGN
TMP-04 & 05	OFFSITE DETOUR

SHEET NO.  
TMP-01

49218.7

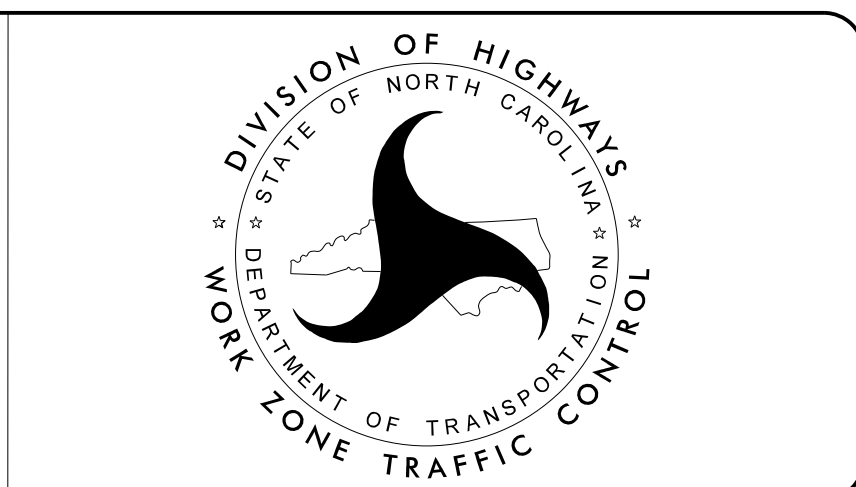
TIP PROJECT:

4/8/2025 \\wei-fs01\projects\2023\23444\01\Ft., Bragg-Retilly Road\Traffic\Traffic Design\2 Plan Design\4 WZTC\49218.7\_TMP\_01 Title.dgn User:AHayes



**PLANS PREPARED BY:**  
R.K. MURPHY, P.E.  
D. ALLEN HAYES, E.I.

**NCDOT CONTACTS:**  
CHRISTY W. HUFF, P.E.  
PROJECT ENGINEER  
PROJECT DESIGN ENGINEER



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**WETHERILL ENGINEERING**  
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Raleigh, N.C. 27606  
License No. F-6377  
Bus: 919 851 8077  
Fax: 919 851 8107

**APPROVED:** *R.K. Murphy, Jr.*  
**DATE:** 8/6/2025  
**SEAL**  
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 018981 R.K. MURPHY, JR.

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



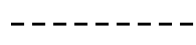

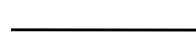

# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:



STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUMS

# LEGEND

## GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  WORK AREA

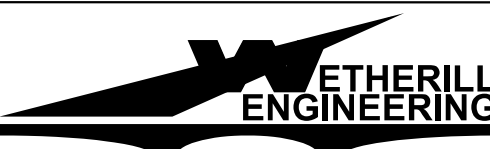
## TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  PEDESTRIAN BARRICADE

## TEMPORARY SIGNING


-  STATIONARY SIGN

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 User: AHayes




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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: 

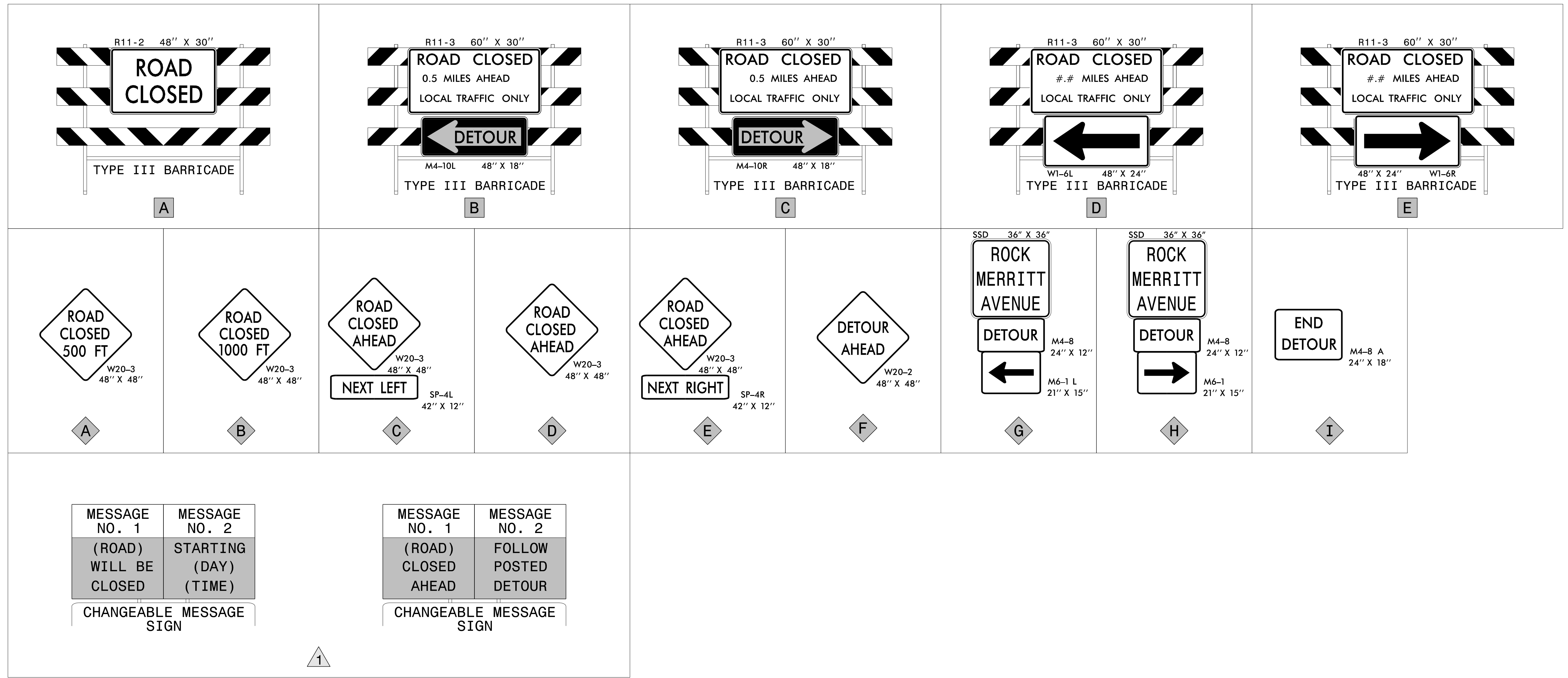
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LIST OF APPLICABLE  
ROADWAY STANDARD  
DRAWINGS, AND LEGEND



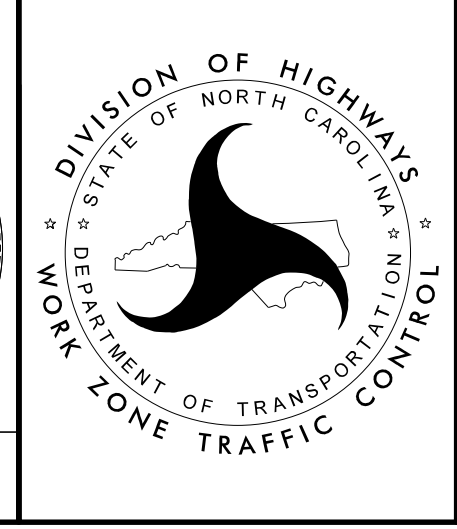
4/17/2025 \\well-fs01\projects\2023\23444\01\1+. Bragg-Retilly Road\Traffic\Traffic Design\2 Plan Design\4 WZTC\49218.7\_TMP\_01B\_SDL.dgn User:AHayes

**X BARRICADES**  
-WITH MOUNTED SIGNING

**X SIGNING**  
-STATIONARY MOUNTED

**ETHERILL ENGINEERING**  
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**SIGN AND DEVICE LEGEND**

## GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- F) DO NOT INSTALL MORE THAN 1200 FT OF LANE CLOSURE ON ROCK MERRITT AVE MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- G) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ROCK MERRITT AVE.
- H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

- J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- L) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

AND

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- M) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

AND

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC CONTROL DEVICES

- P) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

- R) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### MISCELLANEOUS

- S) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 200 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

- T) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

- U) DO NOT PLACE TRANSPORTATION MANAGEMENT DEVICES OR SIGNING ON OPEN PEDESTRIAN TRAVELWAYS.

- V) ALL STATIONS ARE CONSIDERED +/- UNLESS OTHERWISE SHOWN ON THE PLANS.

- W) THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTS AND BUSINESSES DURING CONSTRUCTION.

## MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:  
ONE-LANE, TWO WAY OPERATION (FLAGGING)  
OFF-SITE DETOURS

## PHASING

STEP 1) INSTALL ALL OFFSITE DETOUR SIGNING AND ROAD CLOSURE SIGNING. COVER SIGNS USING AN APPROVED METHOD PER THE DISCRETION OF THE ENGINEER. [SEE SHEETS TMP-01B & 04]

STEP 2) WHEN READY TO CLOSE THE ROADWAY, UNCOVER THE DETOUR AND ROAD CLOSURE SIGNING, CLOSE -L- (ROCK MERRITT AVE), AND DETOUR TRAFFIC. [SEE SHEETS TMP-01B & 04]

NOTE: THE CONTRACTOR SHALL ENSURE THAT ANY WORK IN STEP 3 SHALL BE COMPLETED UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE BETWEEN DECEMBER 15TH THRU MARCH 15TH.


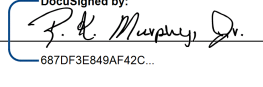
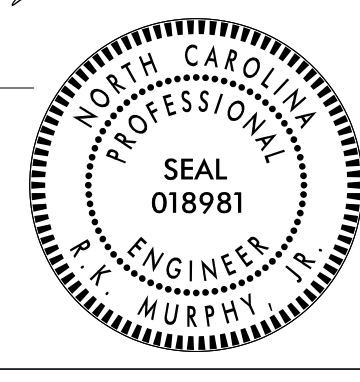

STEP 3) AWAY FROM TRAFFIC, CONSTRUCT -L- WITHIN THE ROAD CLOSURE 1 LIMITS UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE, AND INSTALL TEMPORARY PAVEMENT MARKINGS PER THE DISCRETION OF THE ENGINEER. UPON COMPLETION OF ROAD CLOSURE 1, COMPLETE ROAD CLOSURES 2 AND 3 CONSECUTIVELY, ADJUSTING ROAD CLOSURE SIGNING AS NEEDED. INSTALL TYPE III BARRICADES AS SHOWN ON SHEET TMP-05 TO CLOSE ROADS FOR ROAD CLOSURES 2 AND 3. [SEE ROADWAY PLANS AND FINAL PAVEMENT MARKING PLAN]

STEP 4) UPON COMPLETION OF ROAD CLOSURES 1 THRU 3, REMOVE OFF-SITE DETOUR SIGNING AND ROAD CLOSURE SIGNING AND INSTALL ADVANCE WARNING SIGNING. THEN USING RSD 1101.02, CONSTRUCT -L- FROM THE BOXCAR ST/MAYNARD ST INTERSECTION TO THE END PROJECT LIMITS AND BOXCAR ST UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE, AND INSTALL TEMPORARY PAVEMENT MARKINGS PER THE DISCRETION OF THE ENGINEER.

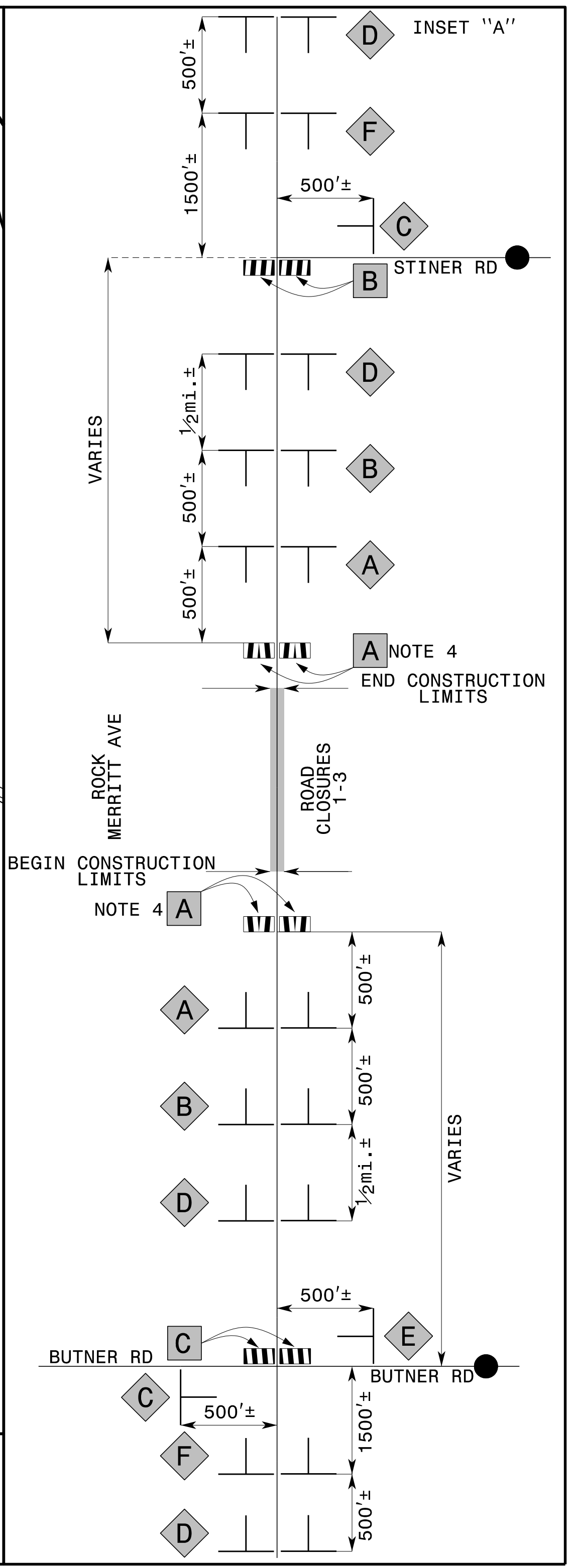
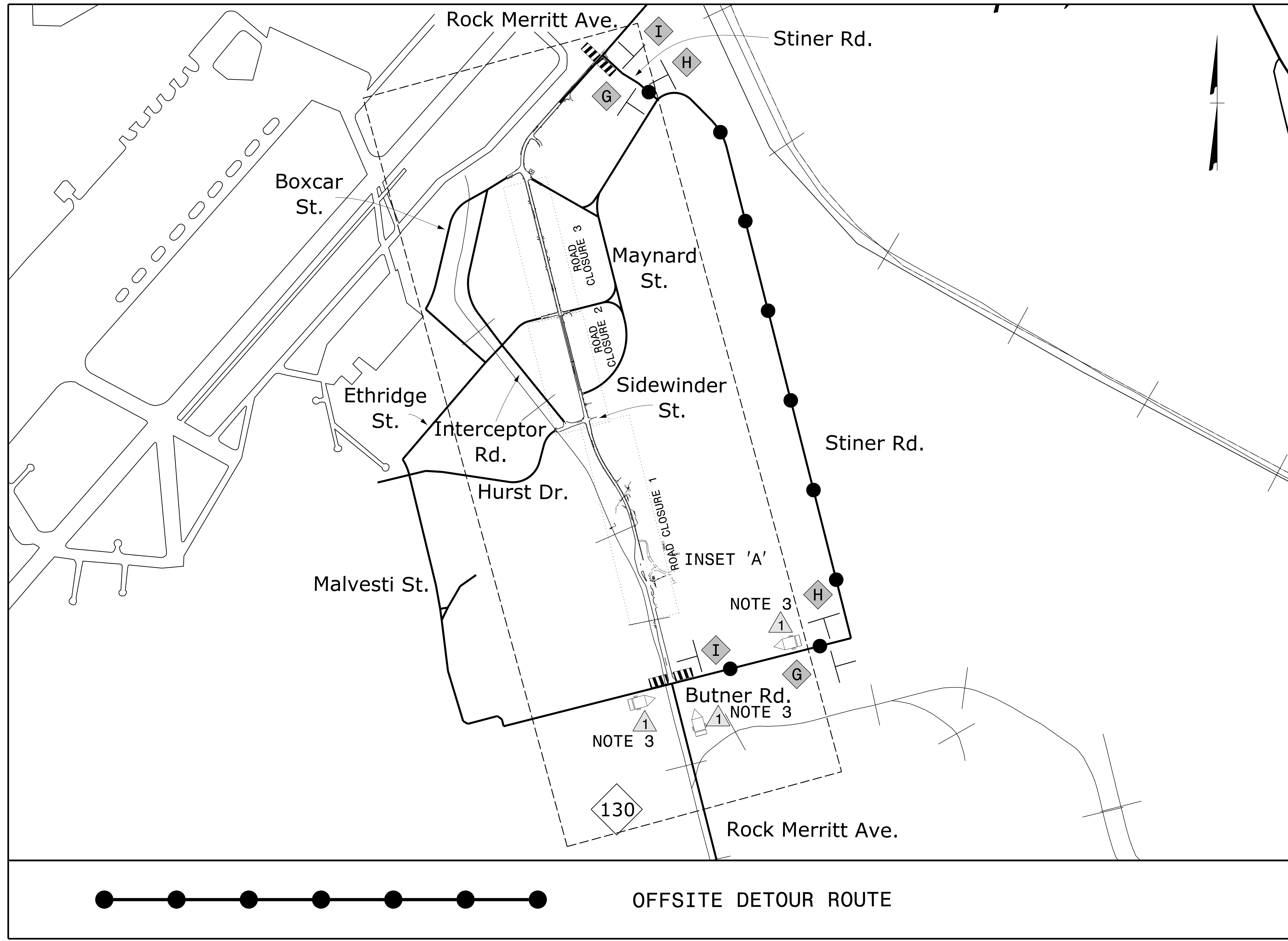
STEP 5) USING RSD 1101.02 INSTALL THE FINAL LIFT ON THE ENTIRE PROJECT INCLUDING THE FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 6) OPEN -L- TO THE FINAL TRAFFIC PATTERN, AND REMOVE ALL ADVANCE WARNING SIGNING AND TRANSPORTATION MANAGEMENT DEVICES. [SEE SHEET TMP-04 FOR SIGN LOCATIONS]

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 <p>1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107</p> <p style="font-size: small;">TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</p>	<p>APPROVED: </p> <p>DATE: 8/6/2025</p>			<p><b>TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES) AND PHASING</b></p>
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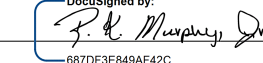



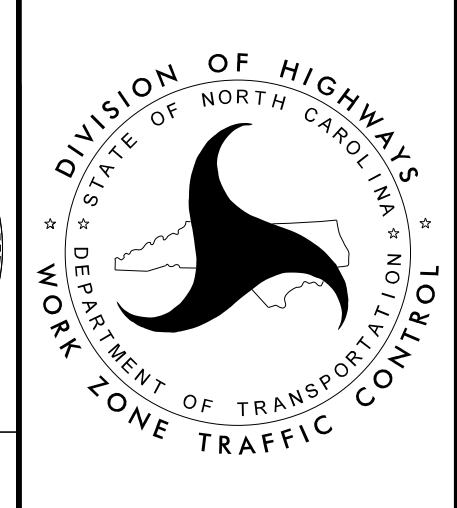


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 User: AHayes

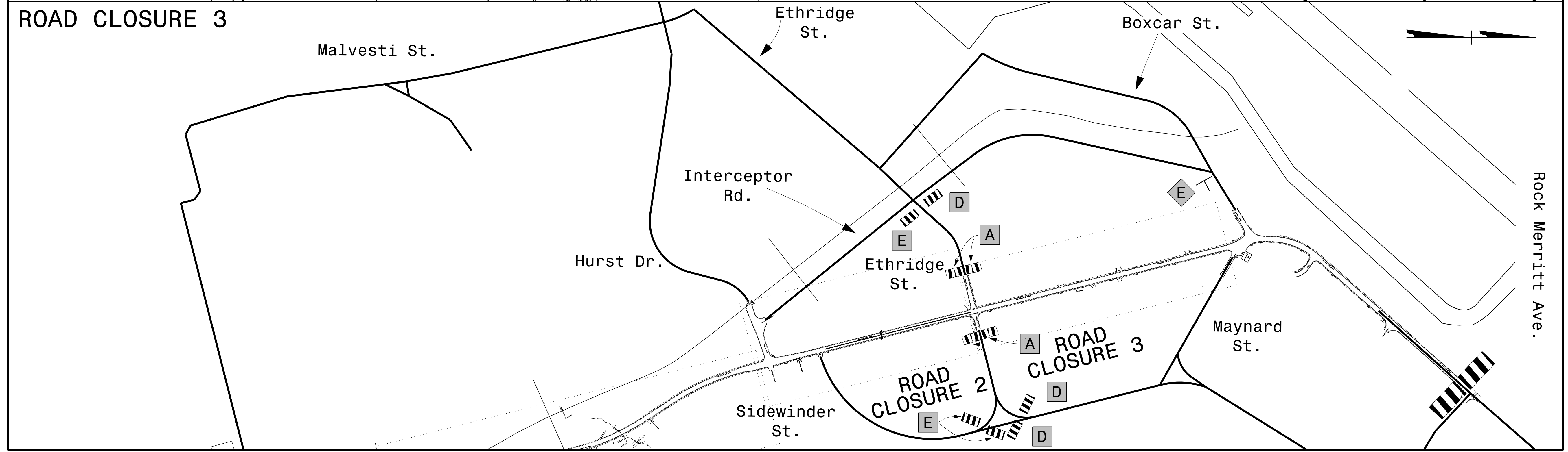
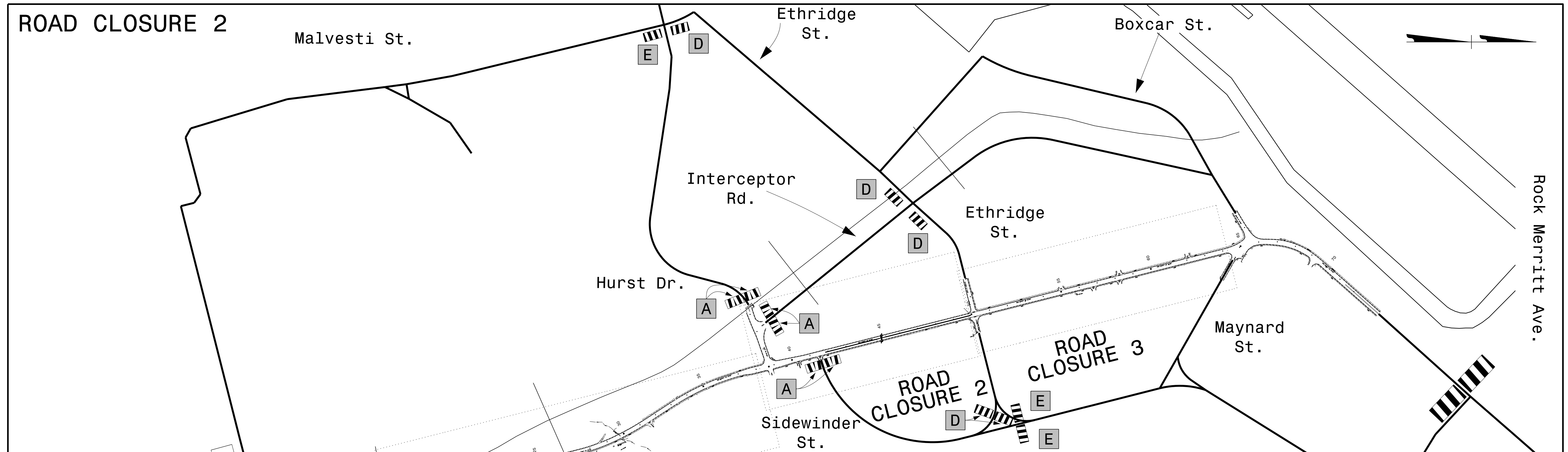
- NOTES:**
- 1) REFER TO SHEET TMP-01B FOR SIGN AND DEVICE LEGEND.
  - 2) FOR INSET "A", REFER TO ROADWAY STANDARD DRAWINGS 1101.03, SHEETS 1 & 2 OF 9 FOR APPLICABLE NOTES.
  - 3) CMS SHOULD BE POSITIONED NO MORE THAN 7 DAYS BEFORE CLOSURE AND SHOULD REMAIN FOR AT LEAST 2 WEEKS AFTER COSURE BEGINS, OR AS DIRECTED BY THE ENGINEER. DATES SHOULD BE AVOIDED ON THE CMS. USE DAY OF WEEK INSTEAD.
  - 4) WHEN A ROAD CLOSURE OCCURS WHERE THERE IS AN OPEN LEG OF AN INTERSECTION AT THE ROAD CLOSURE, SUPPLEMENT BARRICADE "A" WITH SIGN W1-6 IN THE APPROPRIATE DIRECTION.


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OFFSITE DETOUR



**NOTES:**  
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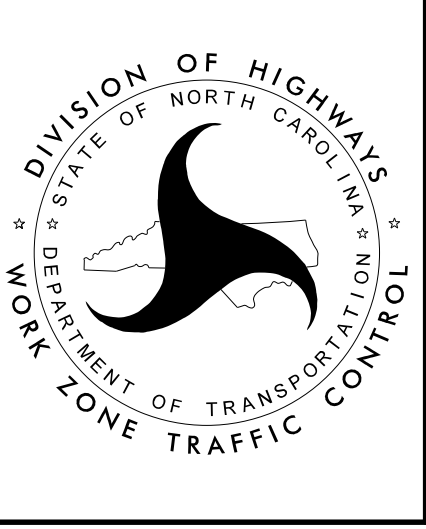
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
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**OFFSITE DETOUR**

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**T.I.P.: 49218.7**

**CONTRACT: N/A**

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGNING PLAN  
CUMBERLAND COUNTY**

<b>TIP NO.</b> 49218.7	<b>SHEET NO.</b> PMP-01
<b>APPROVED:</b>	
<b>DATE:</b> 8/6/2025	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**INDEX**

SHEET NO.	DESCRIPTION
PMP-01	PAVEMENT MARKING & SIGNING PLAN TITLE AND SCHEDULE SHEET
PMP-02 - 05	PAVEMENT MARKING & SIGNING DETAIL

**ROADWAY STANDARD DRAWING**

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

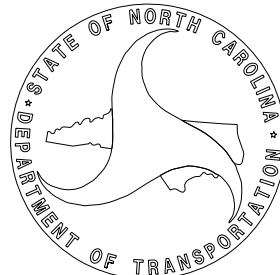
STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS

**FINAL PAVEMENT MARKING SCHEDULE**

TAG	DESCRIPTION	PAY ITEM
T1	WHITE SOLID EDGE LINE	THERMOPLASTIC (4", 90 MIL)
T2	WHITE SOLID LANE LINE	THERMOPLASTIC (4", 90 MIL)
T4	3 FT. - 9 FT./SP WHITE MINISKIP	THERMOPLASTIC (4", 90 MIL)
T5	2 FT. - 6 FT./SP WHITE MINISKIP	THERMOPLASTIC (4", 90 MIL)
T11	YELLOW SINGLE CENTER	THERMOPLASTIC (4", 90 MIL)
T13	YELLOW DOUBLE CENTER	THERMOPLASTIC (4", 90 MIL)
T14	2 FT. - 6 FT./SP YELLOW MINISKIP	THERMOPLASTIC (4", 90 MIL)
T20	WHITE SOLID EDGE LINE	THERMOPLASTIC (6", 90 MIL)
T40	WHITE GORELINE	THERMOPLASTIC (8", 90 MIL)
T41	WHITE DIAGONAL	THERMOPLASTIC (8", 90 MIL)
T42	YELLOW DIAGONAL	THERMOPLASTIC (8", 90 MIL)
T46	WHITE CROSSWALK LINE	THERMOPLASTIC (8", 90 MIL)
T60	WHITE LINE, RxR	THERMOPLASTIC (16", 90 MIL)
T61	WHITE STOPBAR	THERMOPLASTIC (24", 90 MIL)
T62	WHITE CROSSWALK LINE (HIGH VISIBILITY)	THERMOPLASTIC (24", 90 MIL)
T70	LEFT TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
T71	RIGHT TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
T72	STRAIGHT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
T77	U-TURN ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
T100	ALPHANUMERIC CHARACTERS	THERMOPLASTIC PAVEMENT MARKING CHARACTERS (90 MIL)
T103	24" YIELD LINE TRIANGLE	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MIL)
MA	YELLOW & YELLOW	PERMANENT RAISED MARKER
MB	CRYSTAL & RED	PERMANENT RAISED MARKER

**PLAN SUBMITTED TO:**

Christy W. Huff, P.E.



**GENERAL NOTES**

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
 

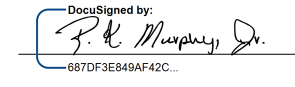

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	NONE
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.
- F) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.
- G) ALL STATION ARE CONSIDERED +/- UNLESS OTHERWISE SHOWN ON THE PLANS.

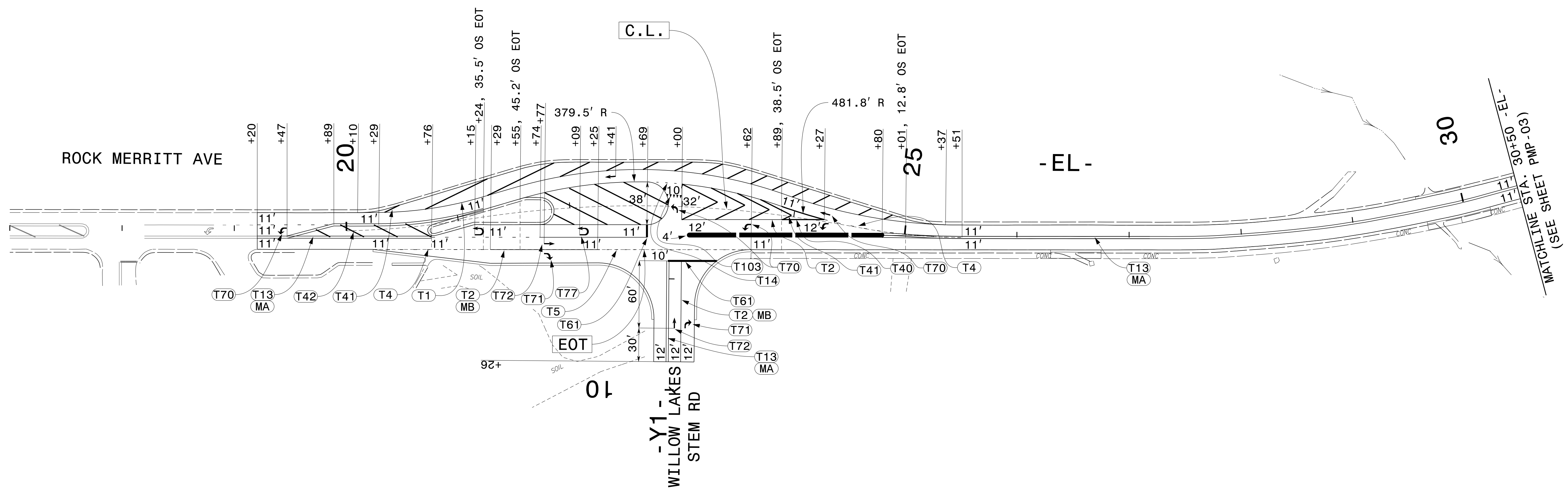
**PLAN PREPARED BY: Wetherill Engineering, Inc.**

R. K. Murphy, P.E. PROJECT MANAGER  
D. Allen Hayes, E.I. TRAFFIC DESIGN ENGINEERING INTERN



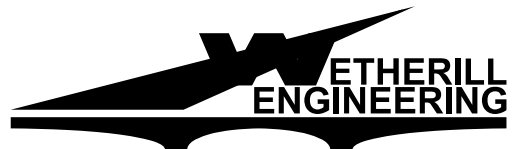
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CNIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

TIP NO. 49218.7	SHEET NO. PMP-02
APPROVED: 	
DATE: 8/6/2025	
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- NOTES:
- 1) C.L. = CENTERLINE
  - 2) EOT = EDGE OF PAVEMENT
  - 3) OS EOT = OFFSET FROM EDGE OF PAVEMENT

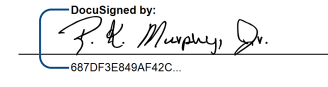
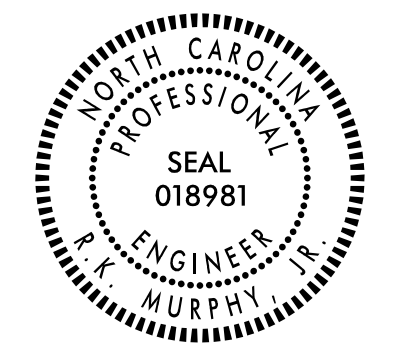
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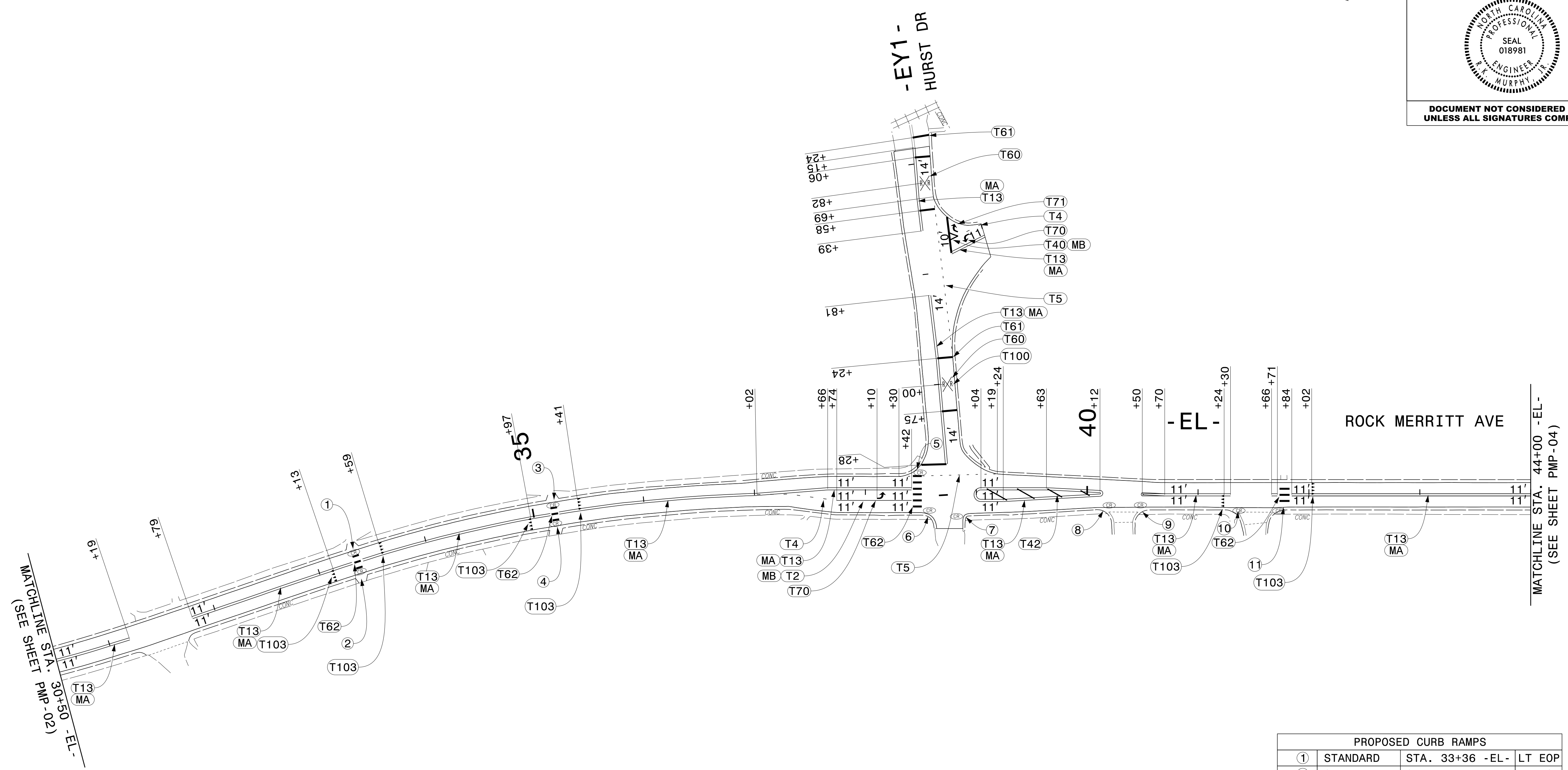
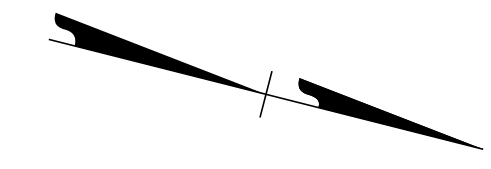


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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

## PAVEMENT MARKING DETAIL

TIP NO. 49218.7	SHEET NO. PMP-03
APPROVED: 	
DATE: 8/6/2025	
	
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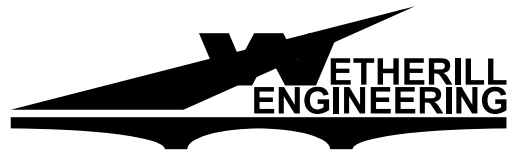


MATCHLINE STA. 30+00  
-EL-  
(SEE SHEET PMP-02)

MATCHLINE STA. 44+00 -EL-  
(SEE SHEET PMP-04)

PROPOSED CURB RAMPS			
①	STANDARD	STA. 33+36 -EL-	LT EOP
②	STANDARD	STA. 33+36 -EL-	RT EOP
③	STANDARD	STA. 35+19 -EL-	LT EOP
④	STANDARD	STA. 35+19 -EL-	RT EOP
⑤	STANDARD	STA. 48+47 -EL-	LT EOP
⑥	TYPE 1C	STA. 48+47 -EL-	RT EOP
⑦	TYPE 1	STA. 48+92 -EL-	RT EOP
⑧	TYPE 1	STA. 40+14 -EL-	RT EOP
⑨	TYPE 1	STA. 40+50 -EL-	RT EOP
⑩	STANDARD	STA. 41+32 -EL-	RT EOP
⑪	STANDARD	STA. 41+73 -EL-	LT EOP

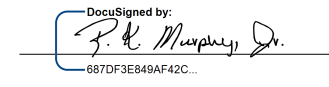
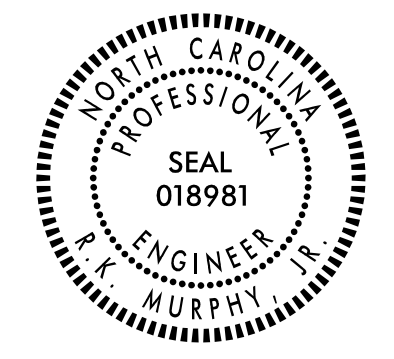
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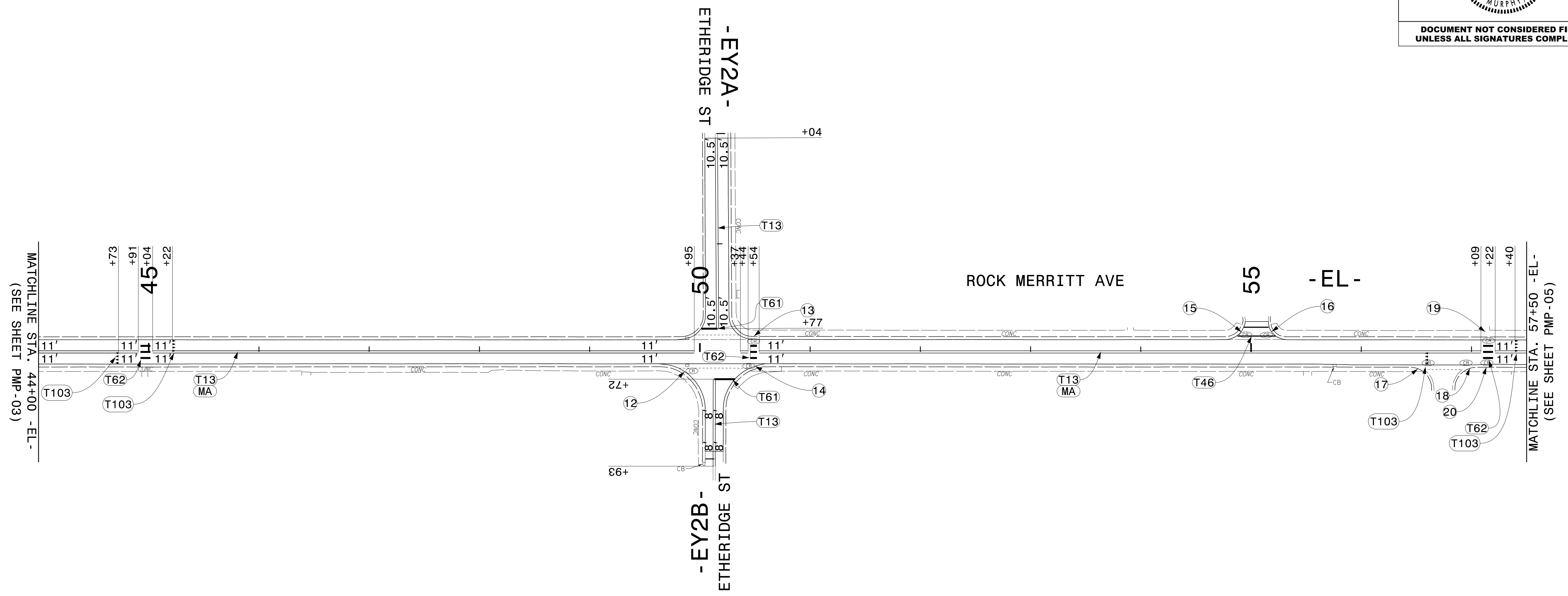
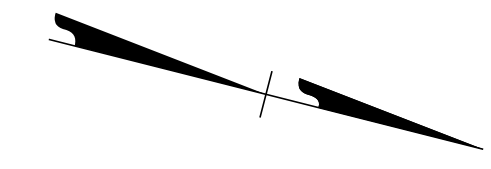


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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

## PAVEMENT MARKING DETAIL

TIP NO. 49218.7	SHEET NO. PMP-04
APPROVED: 	
DATE: 8/6/2025	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

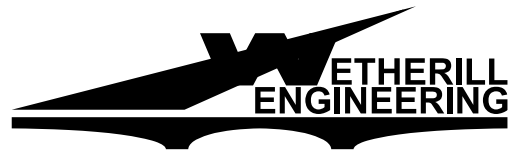


MATCHLINE STA. 44+00 -EL-  
(SEE SHEET PMP-03)

MATCHLINE STA. 57+50 -EL-  
(SEE SHEET PMP-05)

PROPOSED CURB RAMPS			
12	TYPE 2B	STA. 49+86 -EL-	RT EOP
13	STANDARD	STA. 50+49 -EL-	LT EOP
14	STANDARD	STA. 50+49 -EL-	RT EOP
15	STANDARD	STA. 54+91 -EL-	LT EOP
16	STANDARD	STA. 55+19 -EL-	LT EOP
17	TYPE 1	STA. 56+51 -EL-	RT EOP
18	TYPE 1	STA. 56+98 -EL-	RT EOP
19	STANDARD	STA. 57+15 -EL-	LT EOP
20	STANDARD	STA. 57+15 -EL-	RT EOP

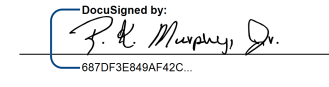
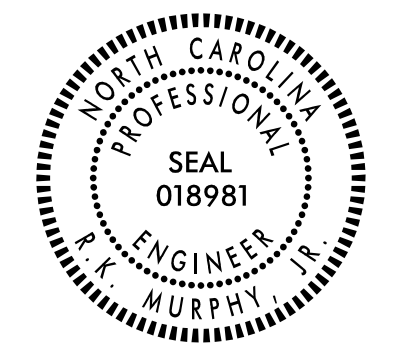
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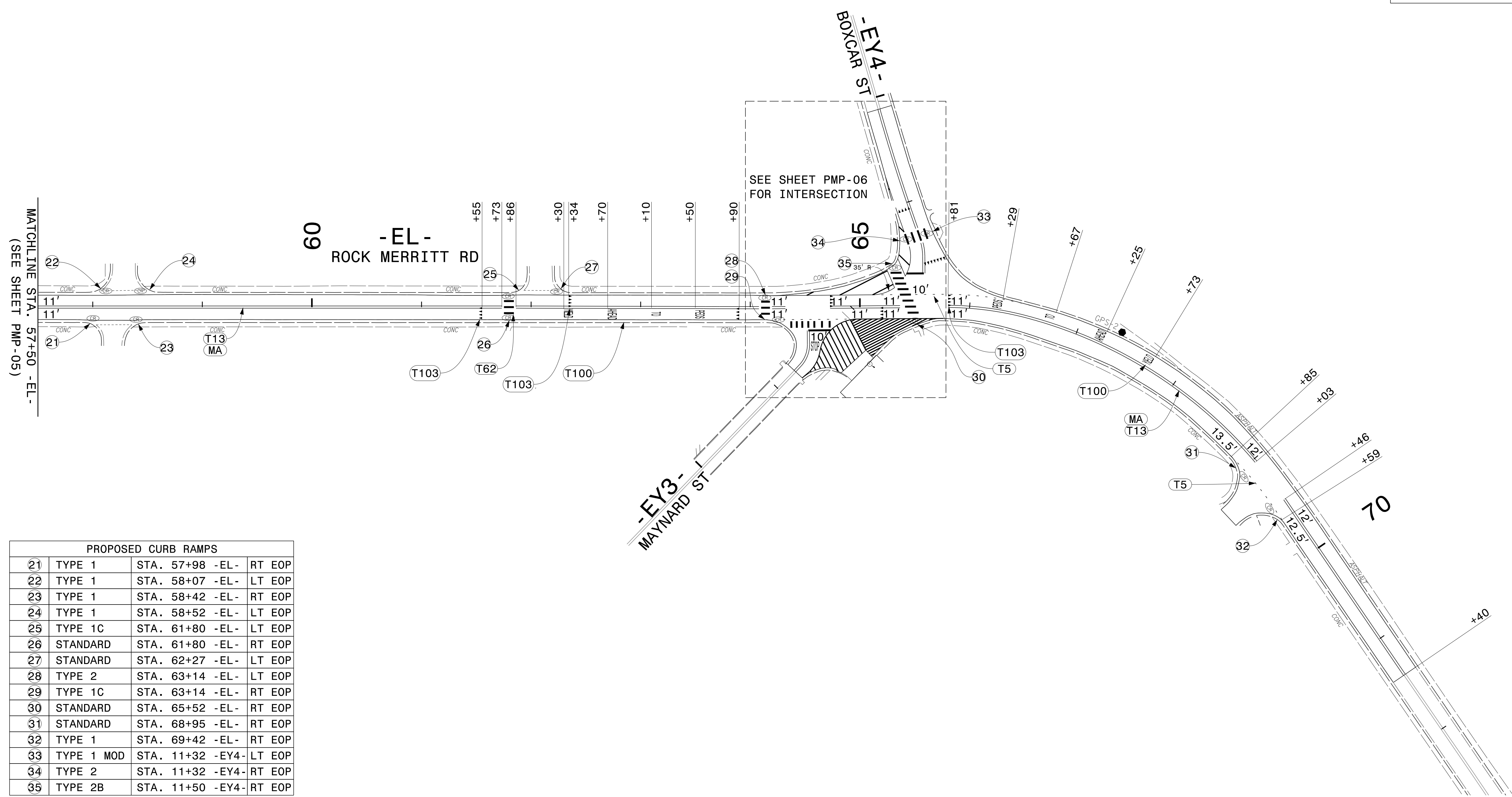


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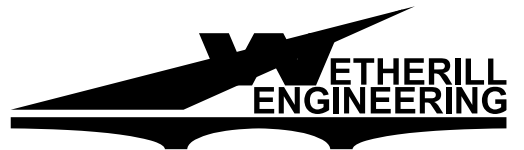
## PAVEMENT MARKING DETAIL

TIP NO. 49218.7	SHEET NO. PMP-05
APPROVED: 	
DATE: 8/6/2025	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



PROPOSED CURB RAMPS				
21	TYPE 1	STA. 57+98 -EL-	RT	EOP
22	TYPE 1	STA. 58+07 -EL-	LT	EOP
23	TYPE 1	STA. 58+42 -EL-	RT	EOP
24	TYPE 1	STA. 58+52 -EL-	LT	EOP
25	TYPE 1C	STA. 61+80 -EL-	LT	EOP
26	STANDARD	STA. 61+80 -EL-	RT	EOP
27	STANDARD	STA. 62+27 -EL-	LT	EOP
28	TYPE 2	STA. 63+14 -EL-	LT	EOP
29	TYPE 1C	STA. 63+14 -EL-	RT	EOP
30	STANDARD	STA. 65+52 -EL-	RT	EOP
31	STANDARD	STA. 68+95 -EL-	RT	EOP
32	TYPE 1	STA. 69+42 -EL-	RT	EOP
33	TYPE 1 MOD	STA. 11+32 -EY4-	LT	EOP
34	TYPE 2	STA. 11+32 -EY4-	RT	EOP
35	TYPE 2B	STA. 11+50 -EY4-	RT	EOP

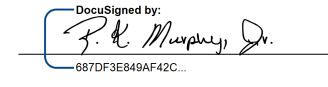
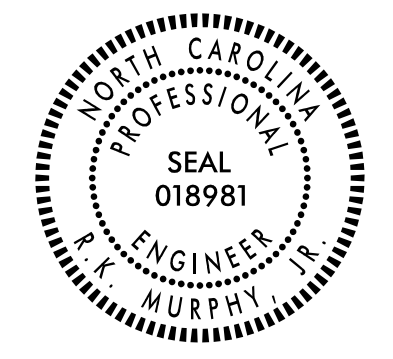
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 User:AHayes

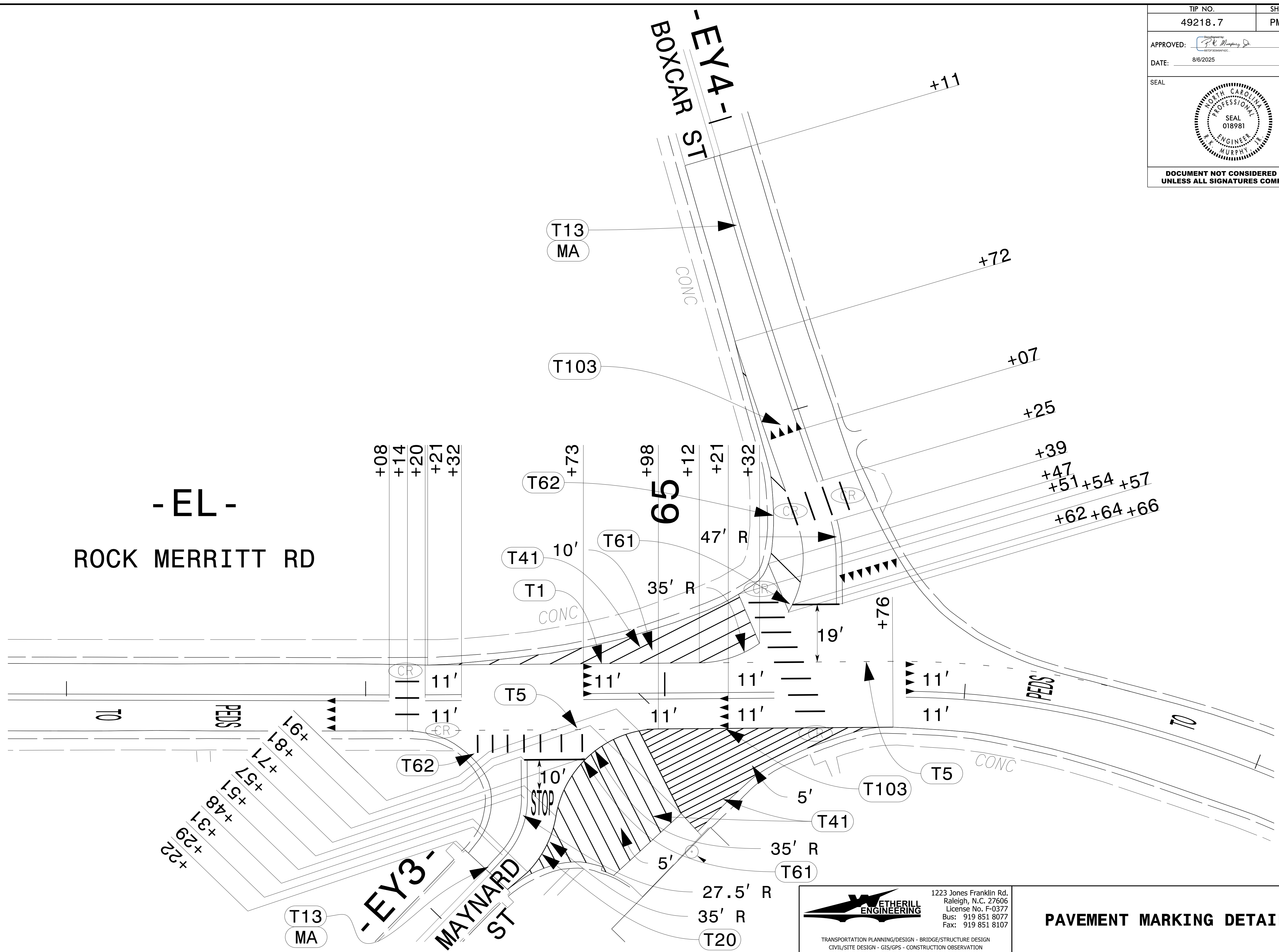


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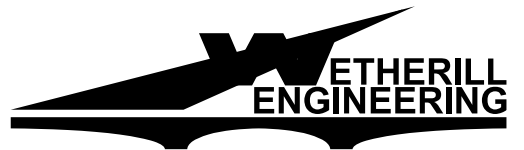
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

## PAVEMENT MARKING DETAIL

TIP NO. 49218.7	SHEET NO. PMP-06
APPROVED: 	
DATE: 8/6/2025	
	
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**PAVEMENT MARKING DETAIL**

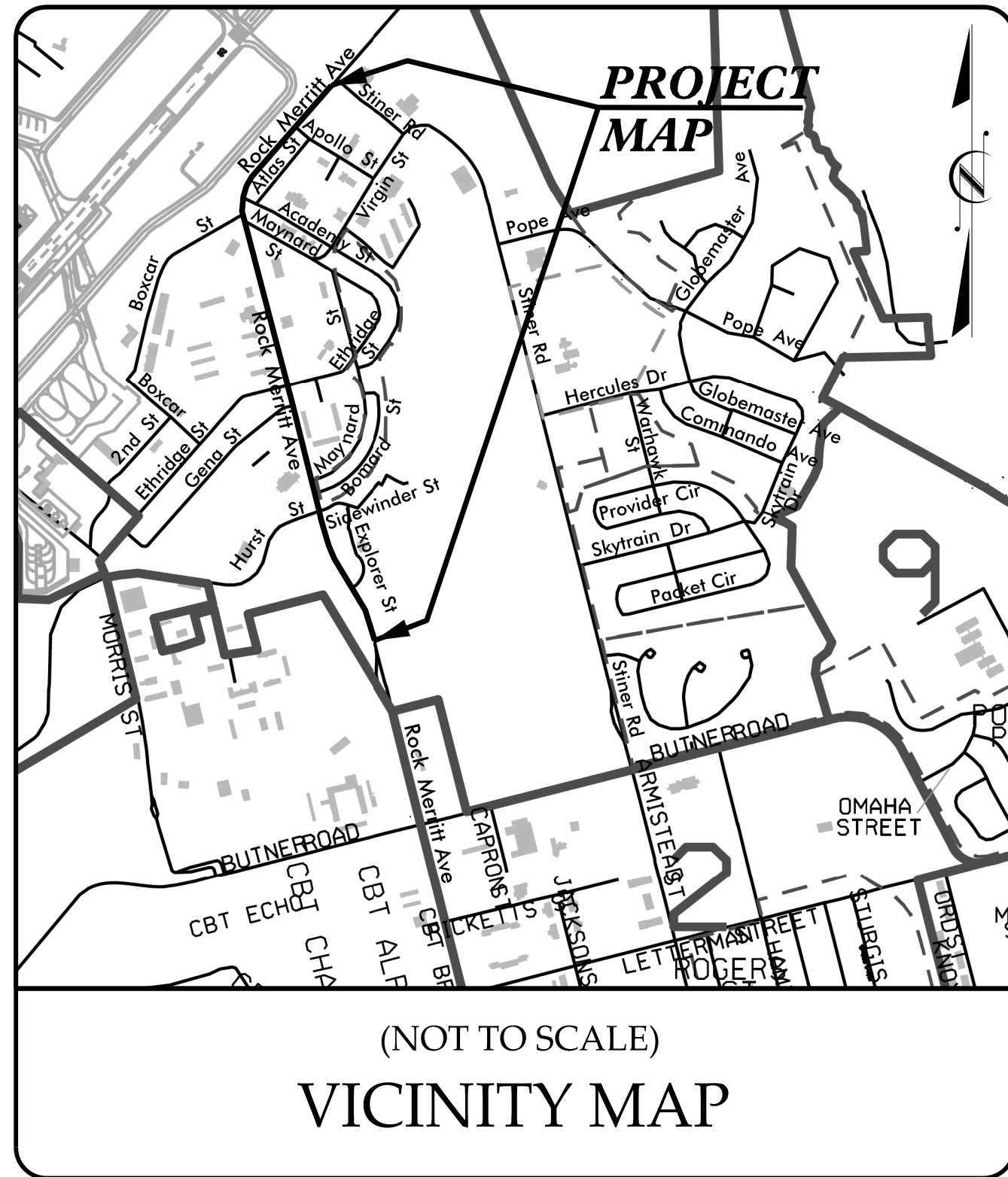
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49218.7	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL  
**CUMBERLAND COUNTY**

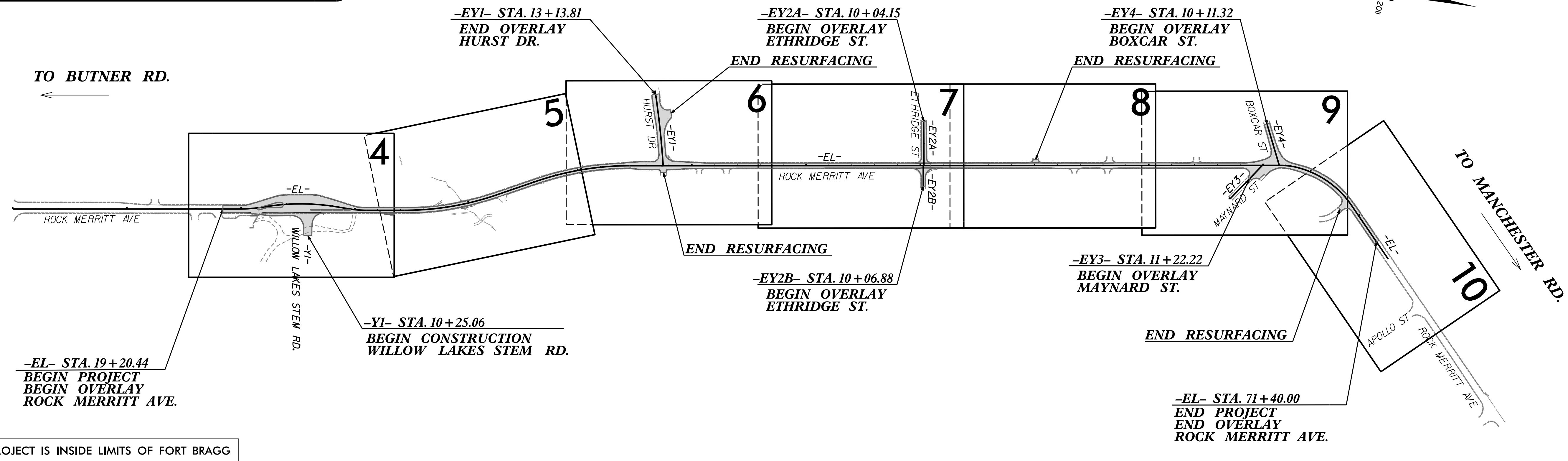
**LOCATION:** ROCK MERRITT AVE  
 FROM THE FORMER ACCESS CONTROL POINT  
 NORTH OF BUTNER RD TO APPROXIMATELY  
 0.15 MILES NORTH OF BOXCAR ST

**TYPE OF WORK:** RESURFACING, PAVEMENT REHABILITATION, MILLING  
 GRADING, DRAINAGE IMPROVEMENTS, SIDEWALK, CURB  
 AND GUTTER, ADA RAMP, AND PAVEMENT MARKINGS

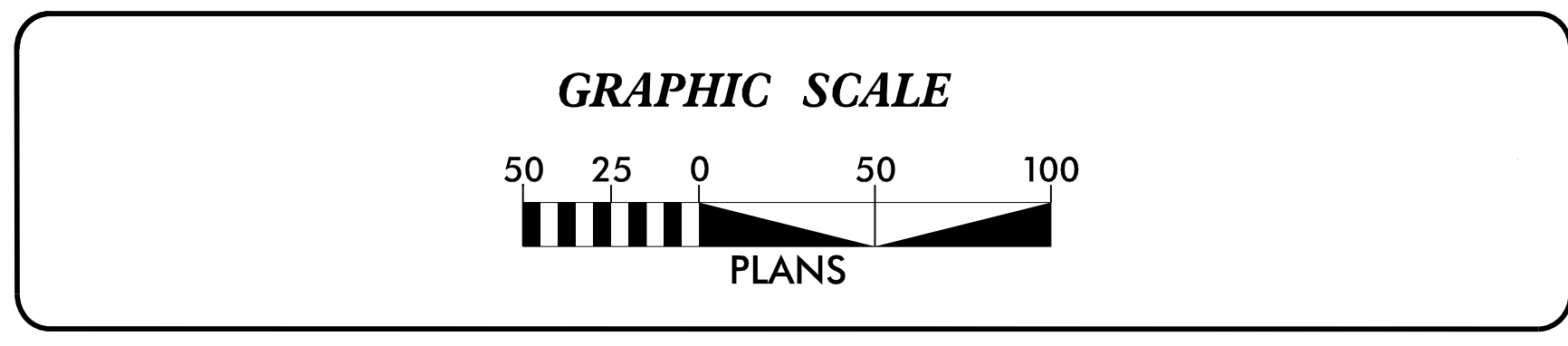


(NOT TO SCALE)  
 VICINITY MAP

**ROCK MERRITT AVE**



CONTRACT: DF00514 TIP PROJECT: 49218.7



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

1223 JONES FRANKLIN ROAD  
 RALEIGH, N.C. 27606  
 Phone: 919.851.8277  
 Fax: 919.851.8107

Prepared In the Office of:

**WETHERILL ENGINEERING, INC.**  
 1223 JONES FRANKLIN ROAD  
 RALEIGH, NC 27606

Designed by:

**KATIE ESTEP** 4485  
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

5/1/2024 Rock Merritt, 01, TSH: dgon  
 USE: KATIE ESTEP

# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

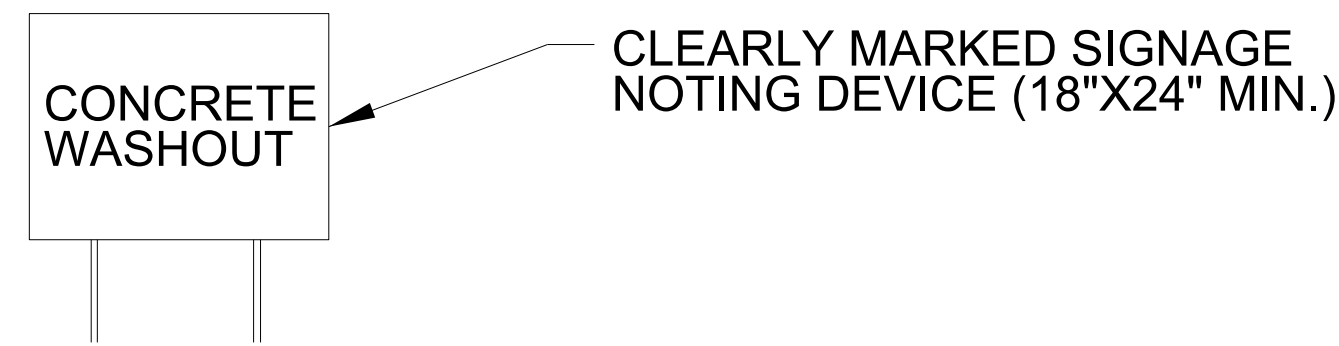
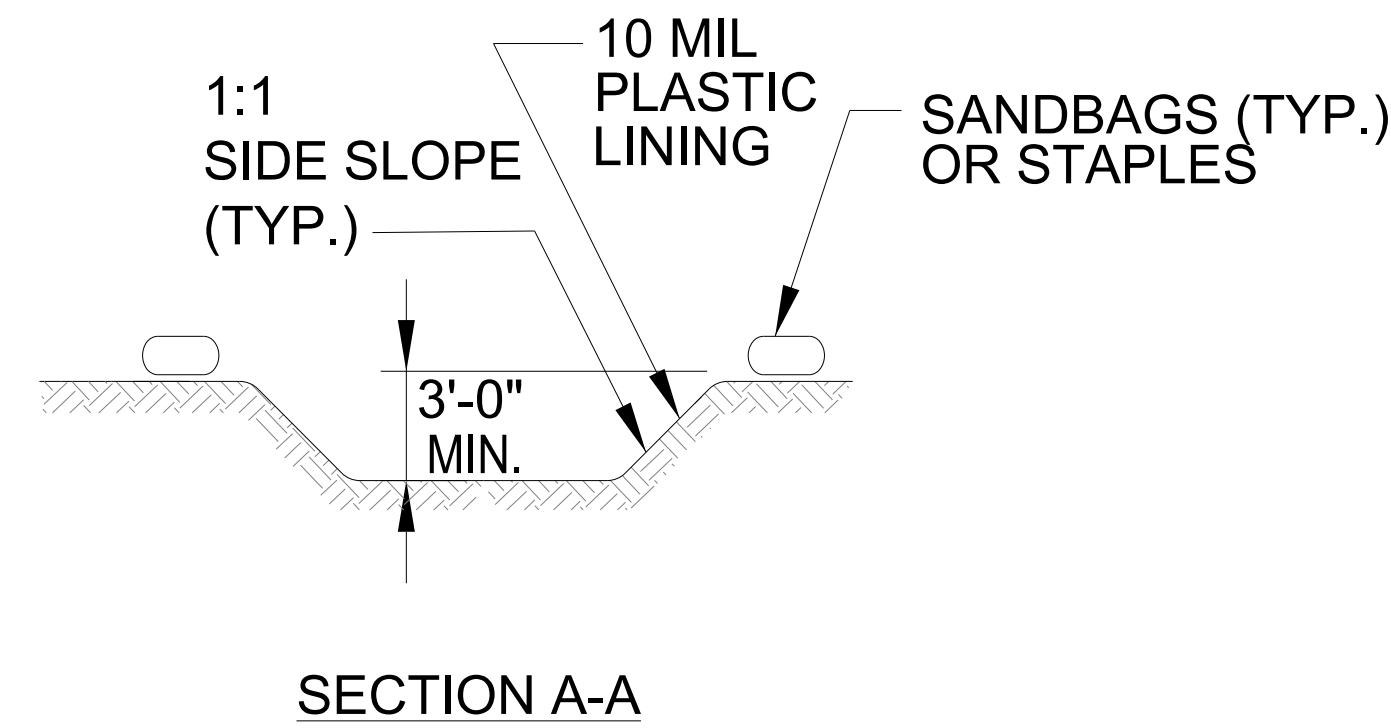
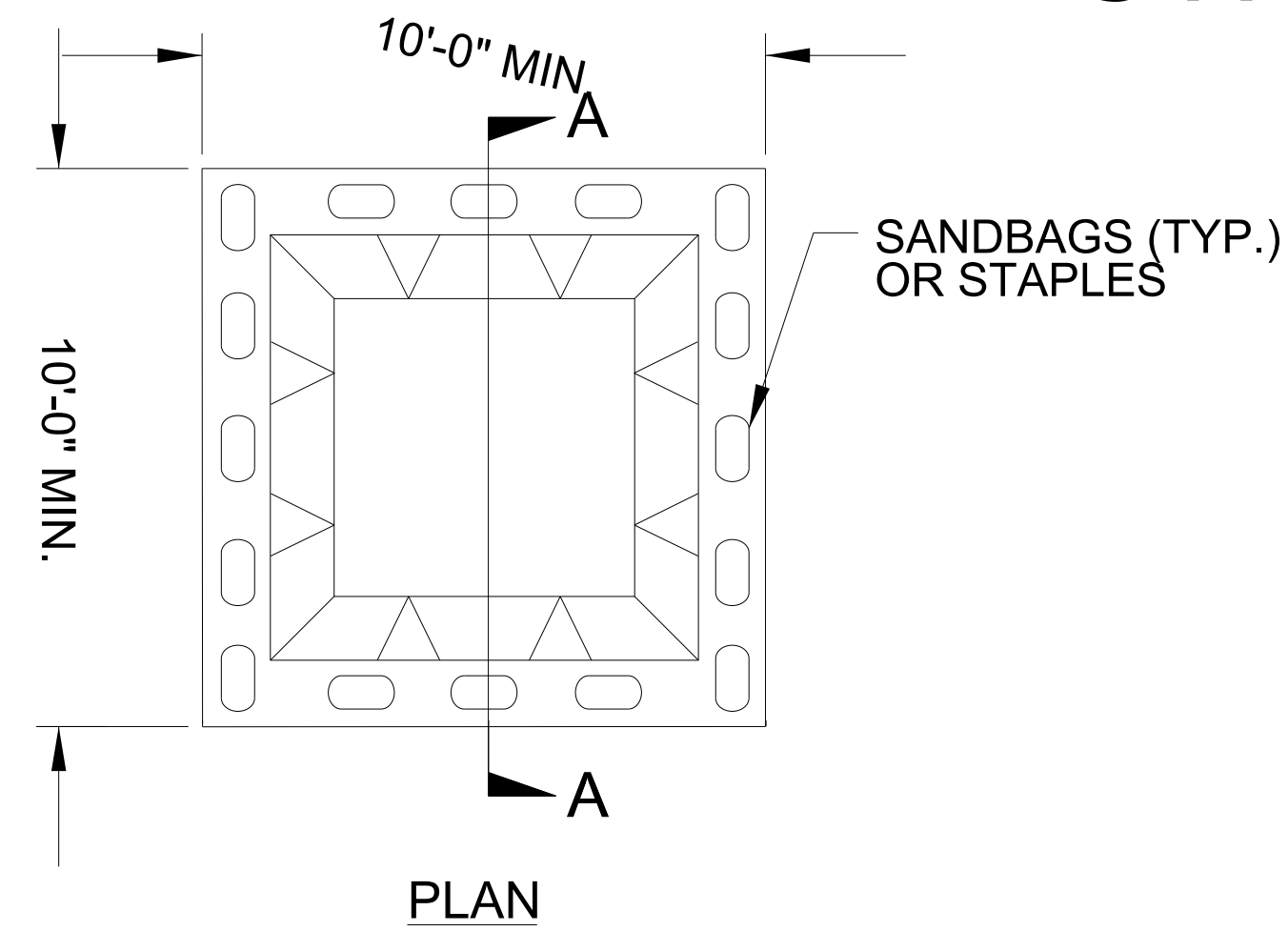
PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>EC-02</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A	A	1636.03	Excelsior Wattle Barrier	
1632.02	Type B	B	1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C	C			

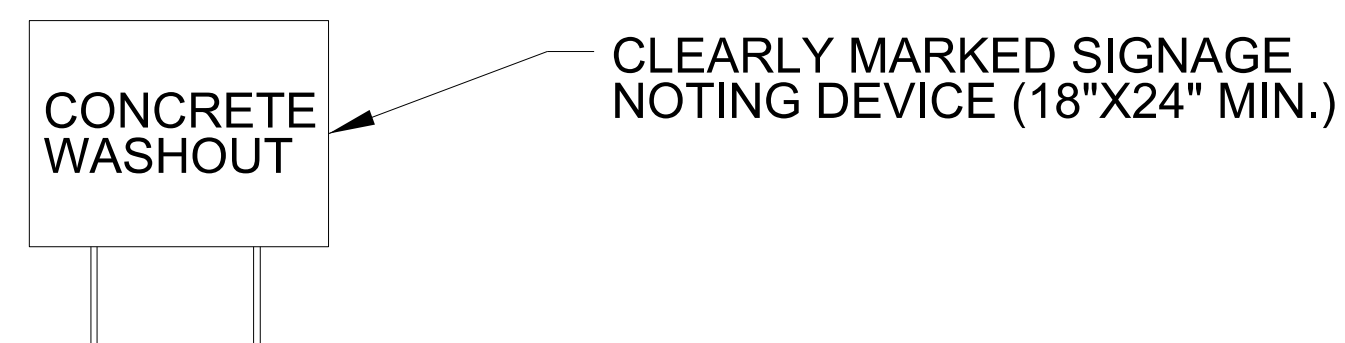
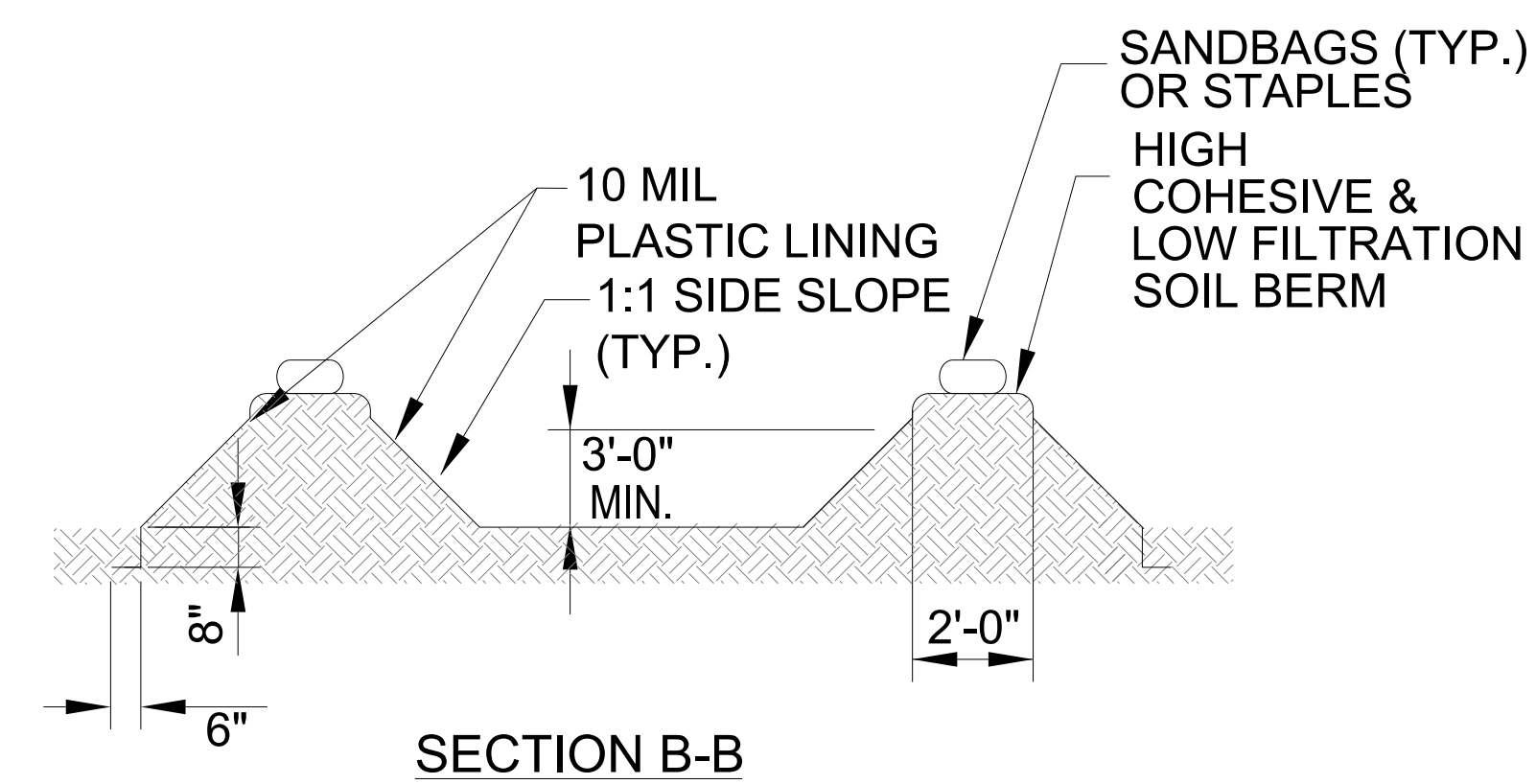
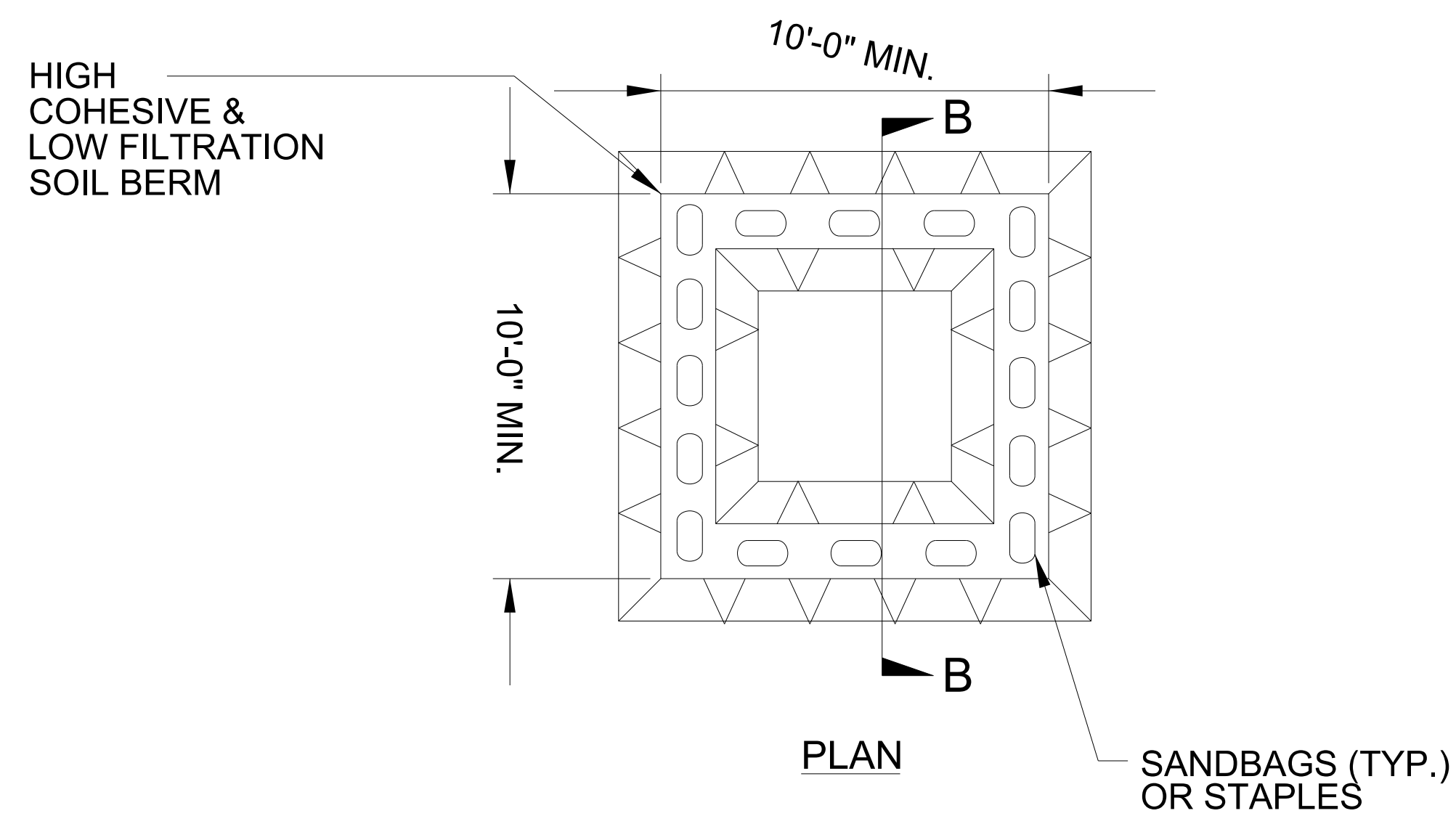
PROJECT REFERENCE NO. 49218.7	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



**BELOW GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

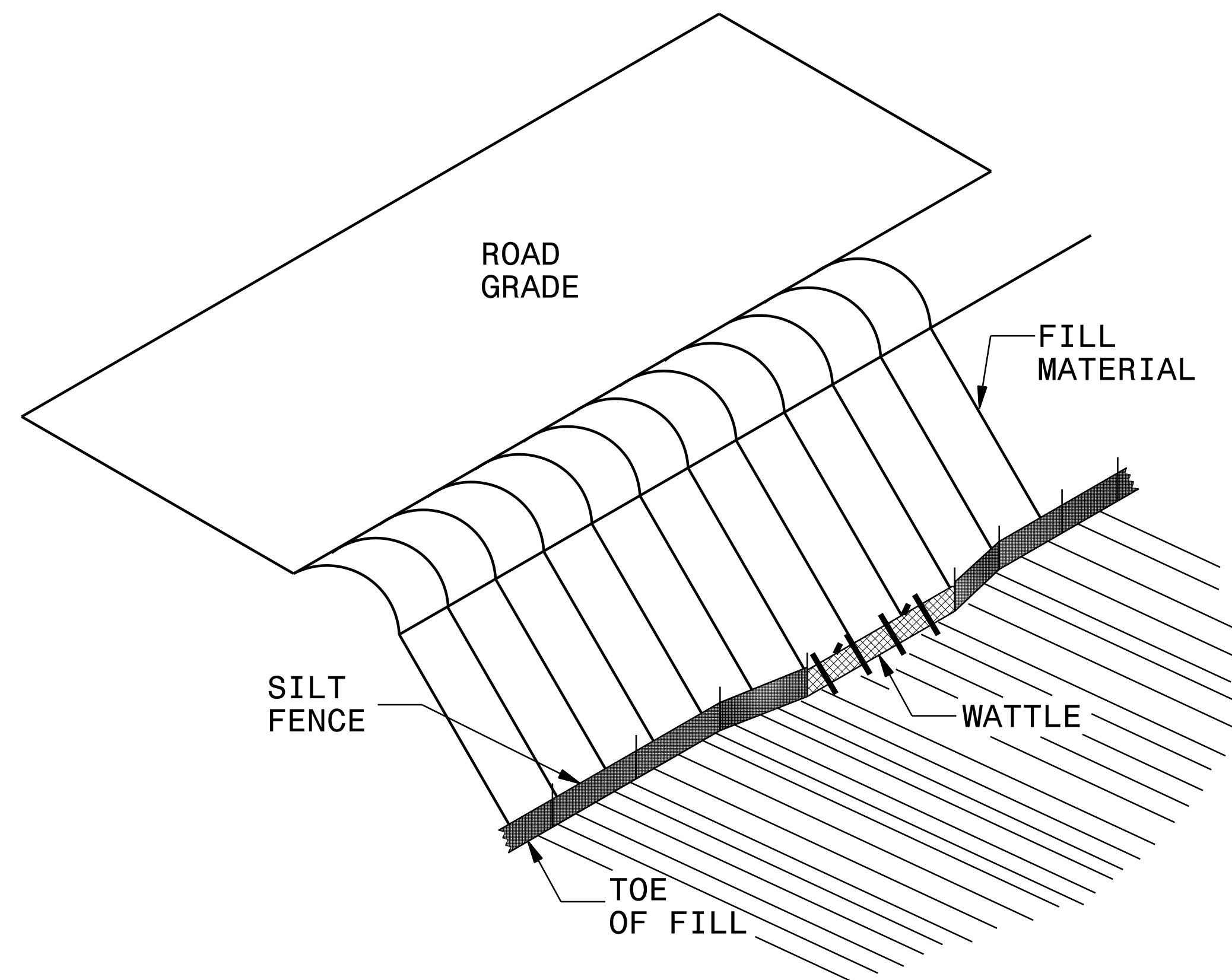


**ABOVE GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

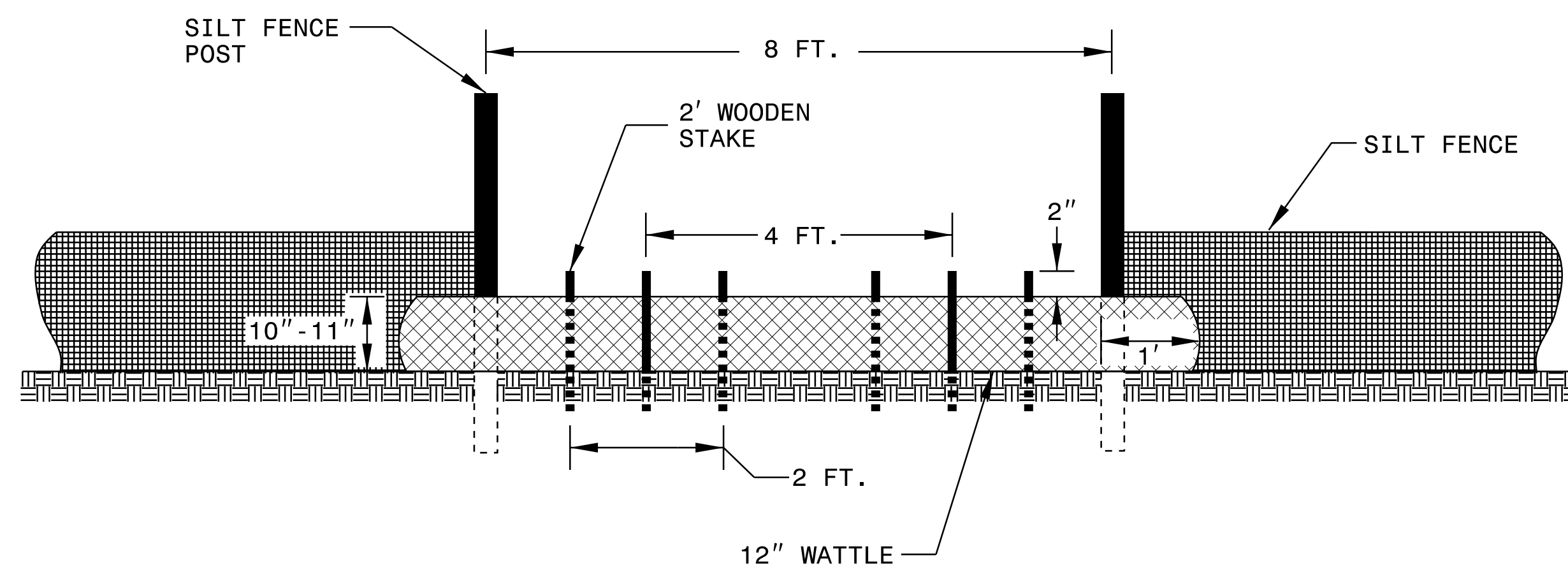
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. 49218.7	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**ISOMETRIC VIEW**



**VIEW FROM SLOPE**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

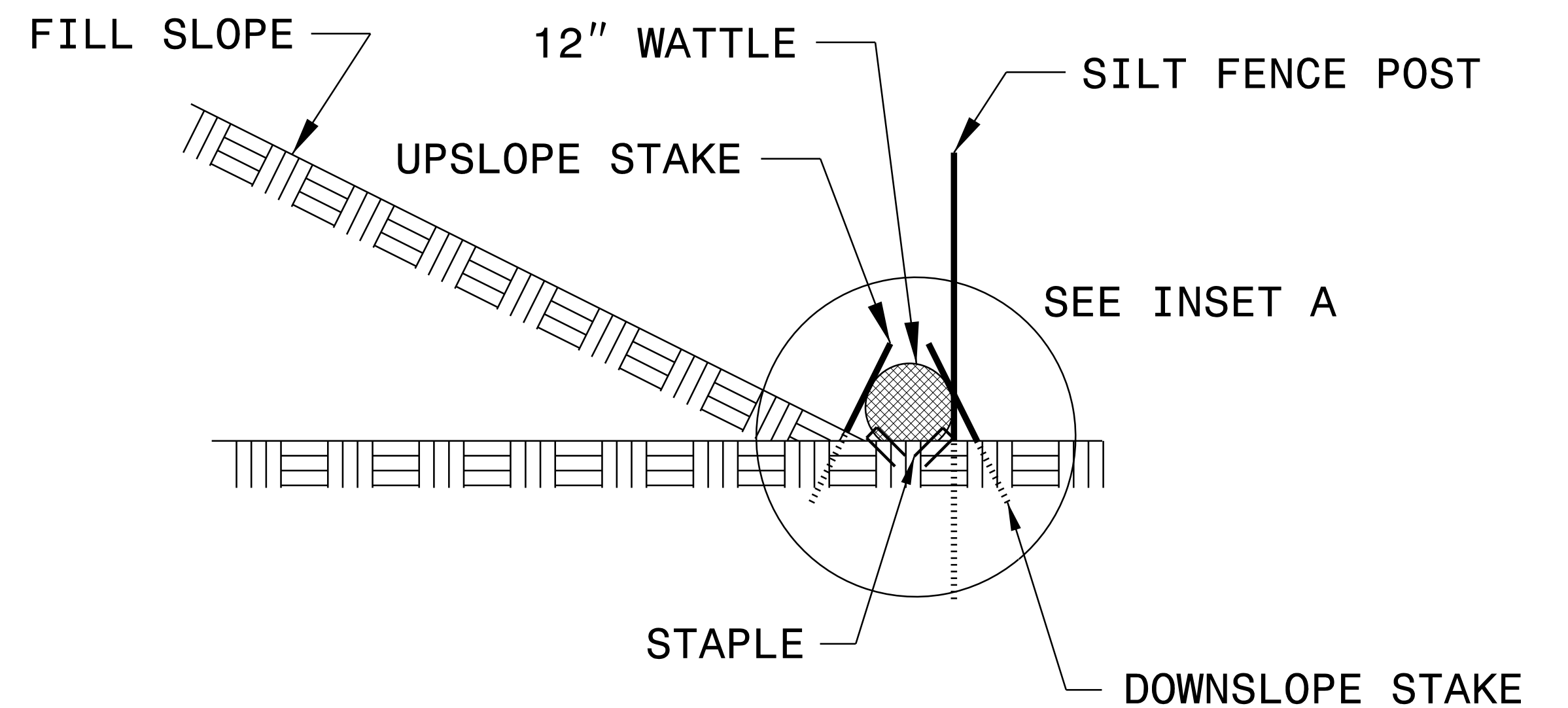
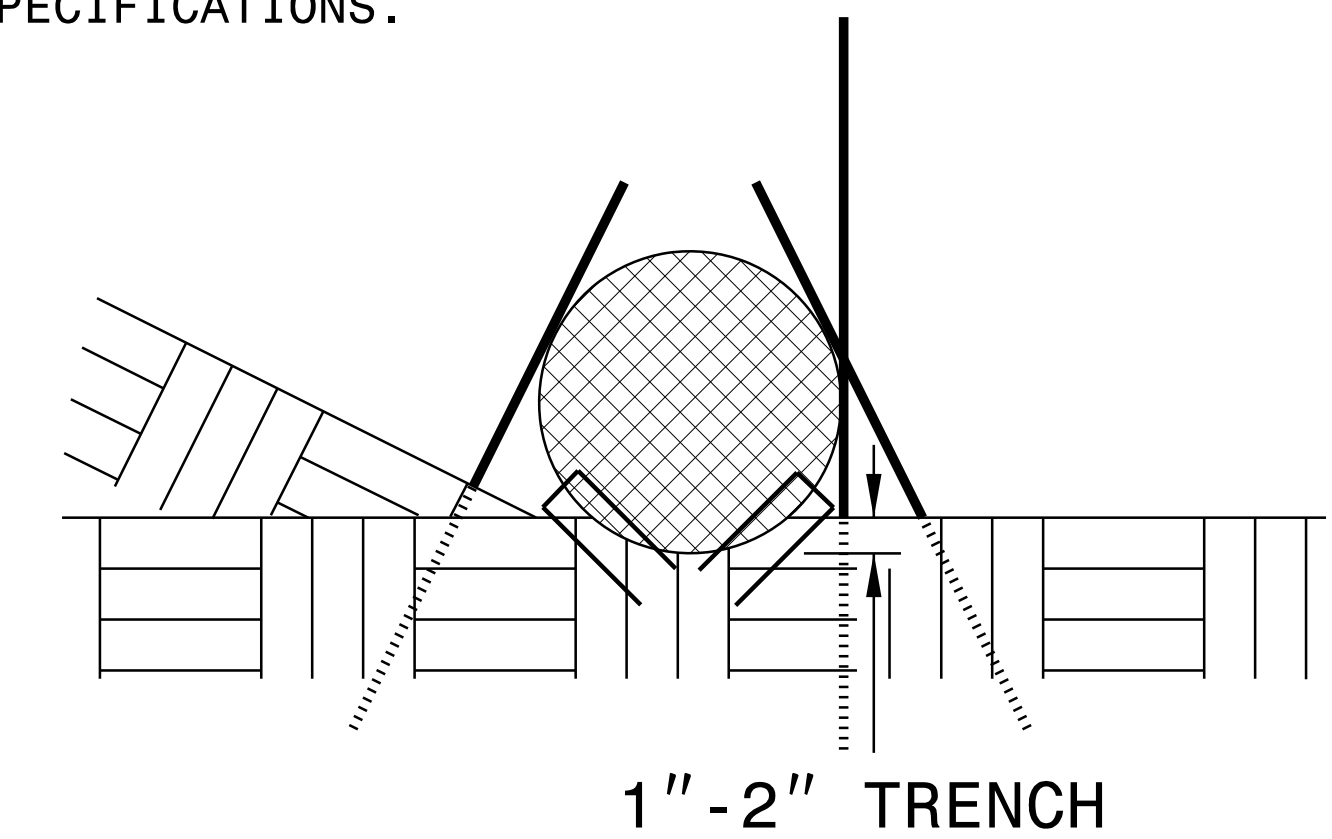
PROVIDE STAPLES MADE OF 11 GAUGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

**INSET A**



**SIDE VIEW**

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>49218.7</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

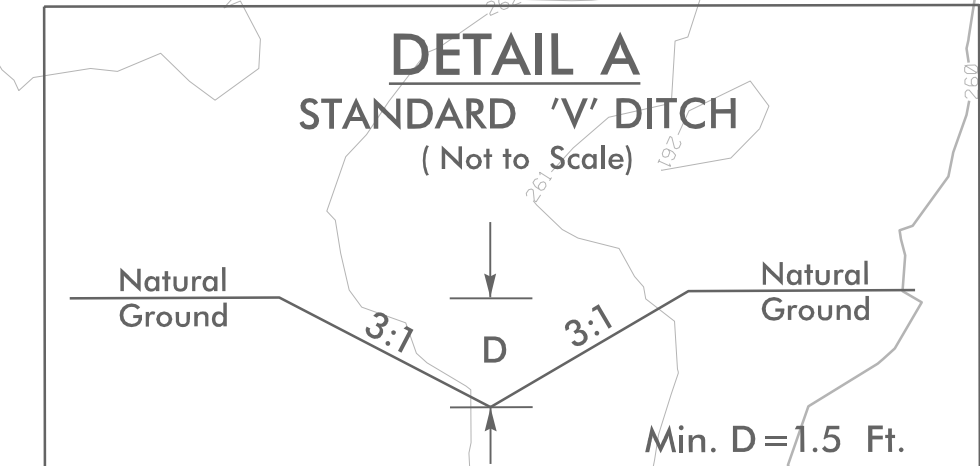
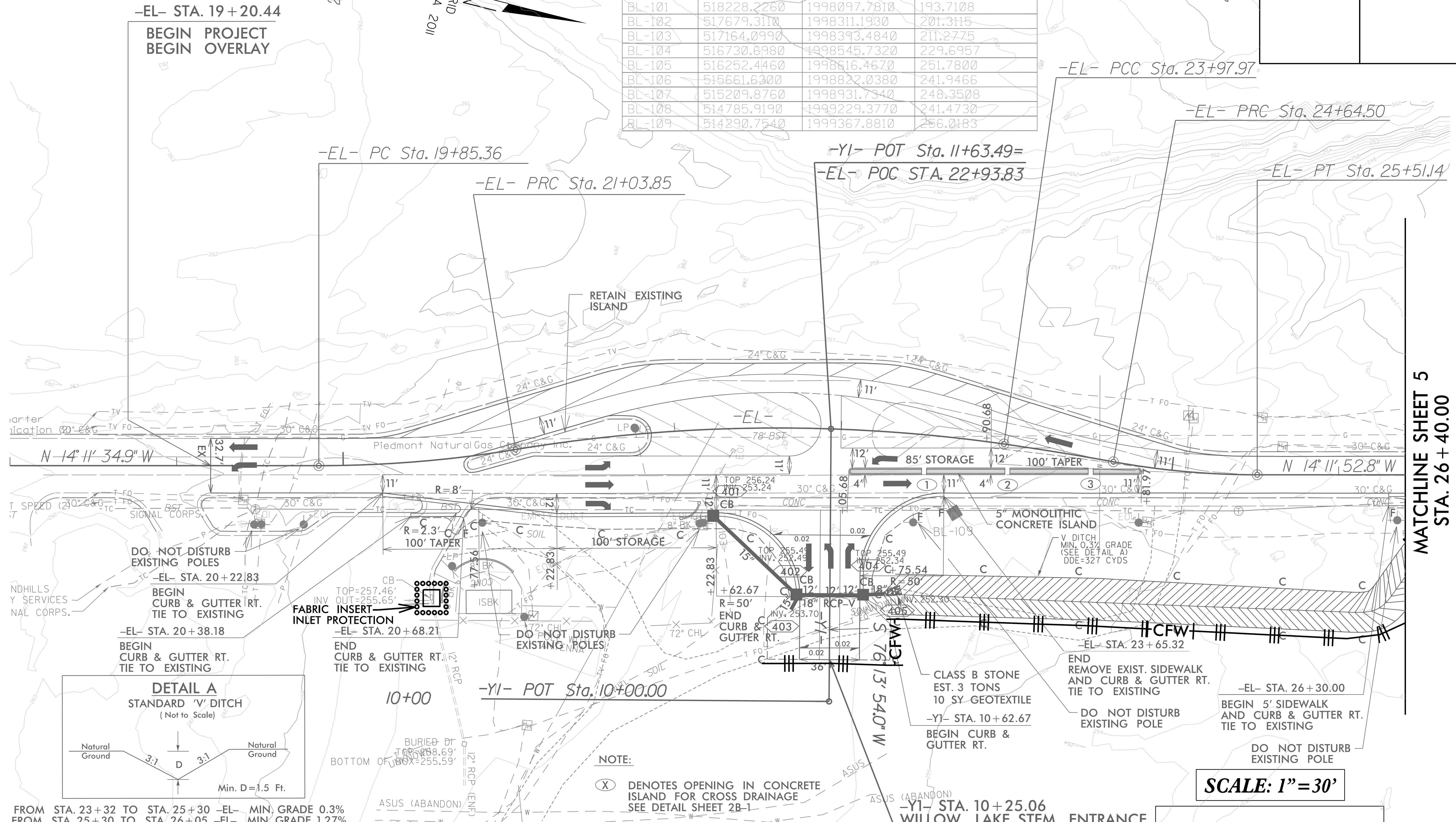
# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183



FROM STA. 23+32 TO STA. 25+30 -EL- MIN. GRADE 0.3%  
 FROM STA. 25+30 TO STA. 26+05 -EL- MIN. GRADE 1.27%  
 FROM STA. 26+05 TO STA. 26+58 -EL- MIN. GRADE 3.2%

-EL- PI Sta 20+44.78 Δ = 9° 23' 26.7" (LT) D = 7° 55' 32.0" L = 118.49' T = 59.42' R = 723.50'	-EL- PI Sta 22+52.13 Δ = 17° 30' 12.3" (RT) D = 5° 57' 04.1" L = 294.12' T = 148.28' R = 963.20'	-EL- PI Sta 24+31.24 Δ = 2° 12' 14.4" (RT) D = 3° 18' 44.7" L = 66.54' T = 33.28' R = 1,729.97'	-EL- PI Sta 25+08.02 Δ = 10° 19' 17.8" (LT) D = 11° 54' 50.7" L = 86.63' T = 43.51' R = 481.78'
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NOTE:  
 (X) DENOTES OPENING IN CONCRETE ISLAND FOR CROSS DRAINAGE  
 SEE DETAIL SHEET 2B-1

SCALE: 1" = 30'

ROCK MERRITT AVE.

49218.7  
 FORT LIBERTY RESURFACING

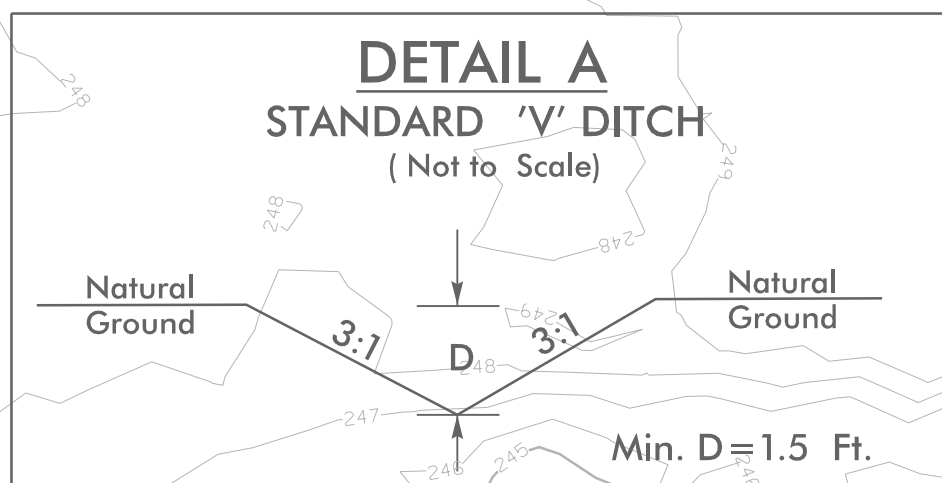
REVISIONS

MATCHLINE SHEET 5  
 STA. 26 + 40.00

8/17/99

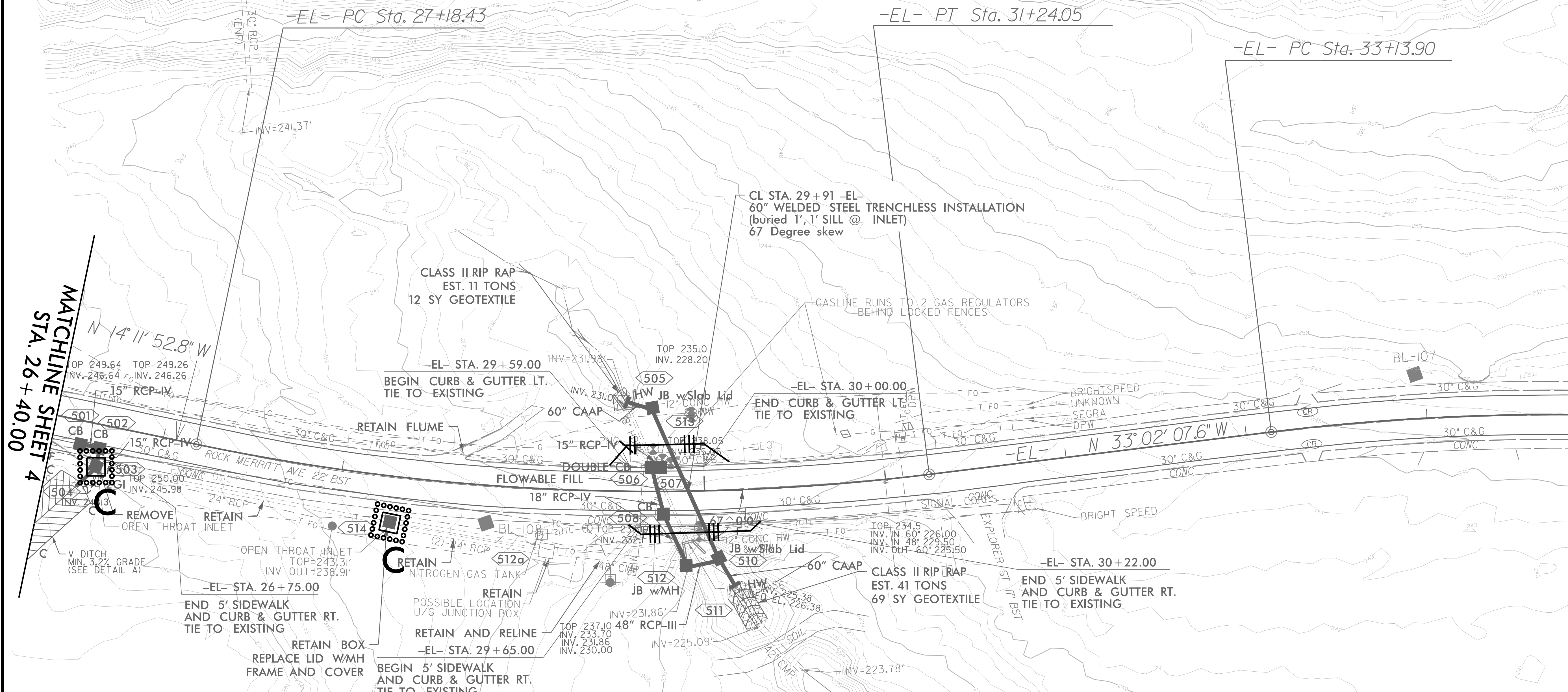
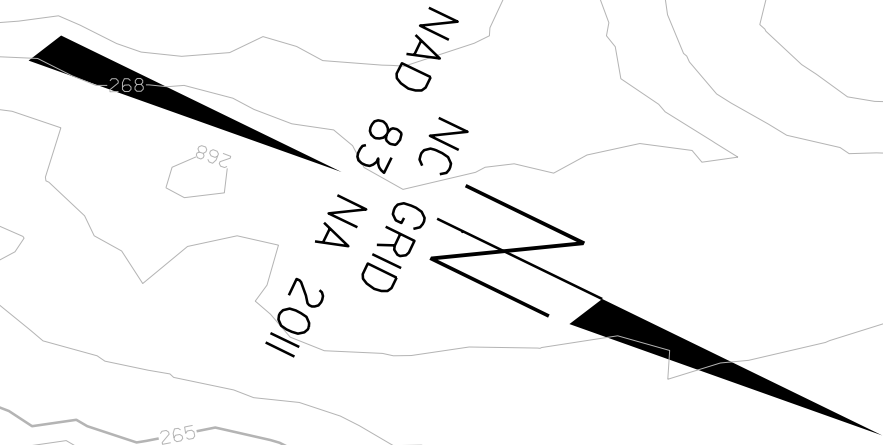
5/1/2025 Merritt.EC.CG.PSH 04.dgn  
 Rock Merritt Ave

PROJECT REFERENCE NO. <b>49218.7</b>	SHEET NO. <b>EC-5/CONST.5</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5**

FROM STA. 23+32 TO STA. 25+30 -EL- MIN. GRADE 0.3%  
 FROM STA. 25+30 TO STA. 26+05 -EL- MIN. GRADE 1.27%  
 FROM STA. 26+05 TO STA. 26+58 -EL- MIN. GRADE 3.2%

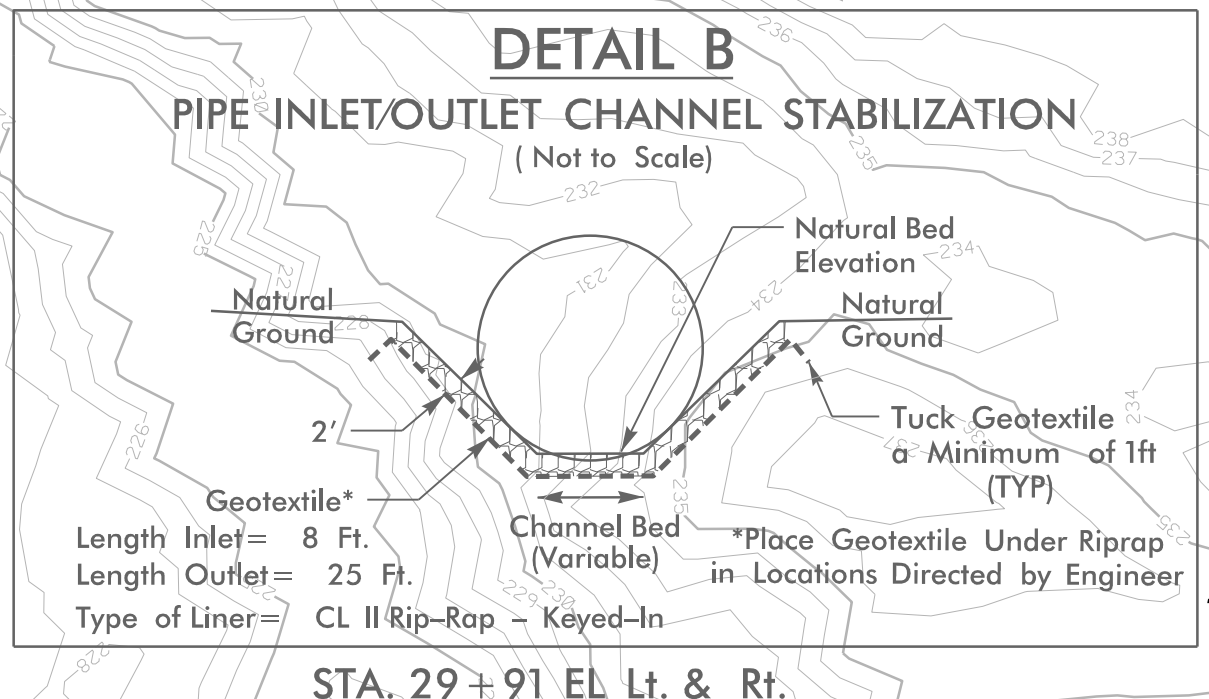


MATCHLINE SHEET 4  
STA. 26 + 40.00

MATCHLINE SHEET 6  
STA. 33 + 80.00

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1040	190.3610
GPS-2	518455.3190	1998122.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3700
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

-EL-  
 PI Sta 29+23.14  
 $\Delta = 18^\circ 50' 14.8''$  (LT)  
 $D = 4^\circ 38' 38.8''$   
 $L = 405.62'$   
 $T = 204.71'$   
 $R = 1,234.07'$



**SCALE: 1" = 30'**

**ROCK MERRITT AVE.**

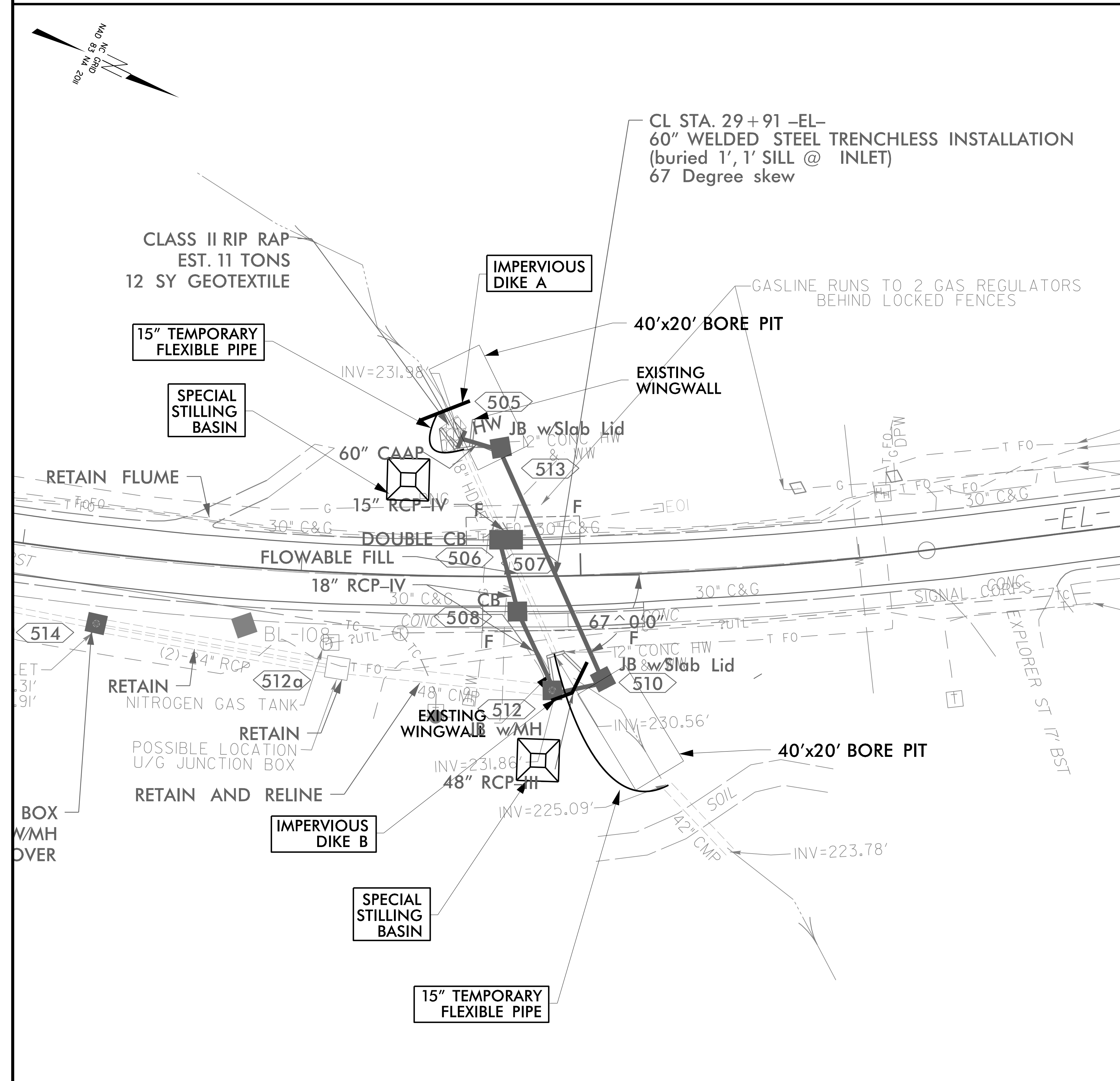
**49218.7**

**FORT LIBERTY RESURFACING**

REVISIONS

PROJECT REFERENCE NO. 49218.7	SHEET NO. EC-5A/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE

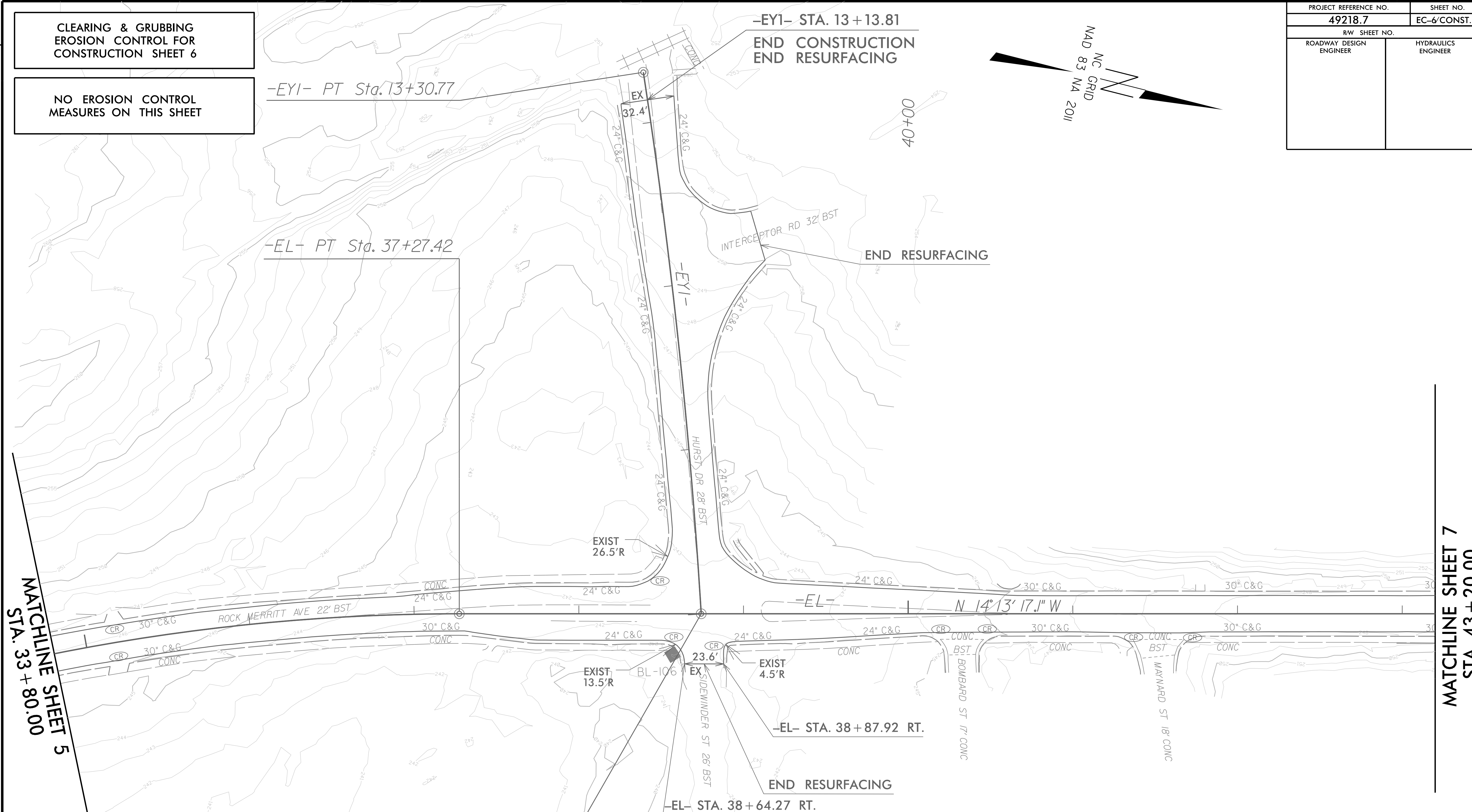
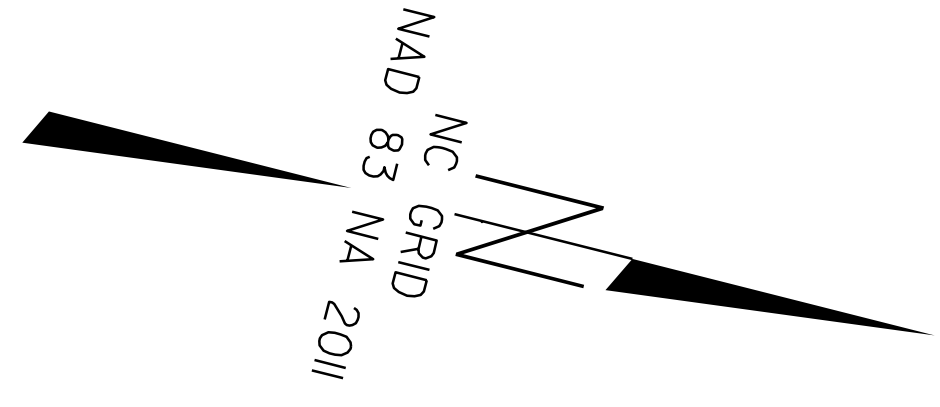


1. INSTALL ALL PERIMETER EROSION CONTROL MEASURES AND SPECIAL STILLING BASINS AS NECESSARY.
2. INSTALL IMPERVIOUS DIKES A AND B, AND 15" TEMPORARY FLEXIBLE PIPE
3. REMOVE THE WINGWALLS AT THE EXISTING 18" HDPE AT THE INLET AND THE OUTLET. INSTALL 60" WELDED STEEL PIPE BY TRENCHLESS CONSTRUCTION.
4. INSTALL ALL REMAINING DRAINAGE STRUCTURES, SHIFTING IMPERVIOUS DIKE AS NECESSARY, AND COMPLETE INLET AND OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES, TEMPORARY PIPE AND SPECIAL STILLING BASINS.

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

NO EROSION CONTROL  
MEASURES ON THIS SHEET



MATCHLINE SHEET 5  
STA. 33 + 80.00

MATCHLINE SHEET 7  
STA. 43 + 20.00

-EYI-  
PI Sta. 11+65.51  
 $\Delta = 5^{\circ} 13' 51.3''$  (LT)  
 $D = 1^{\circ} 34' 53.1''$   
 $L = 330.77'$   
 $T = 165.51'$   
 $R = 3,623.18'$

-EYI- PC Sta. 10+00.00=  
-EL- POT Sta. 38+74.32

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

SCALE: 1" = 30'

ROCK MERRITT AVE.

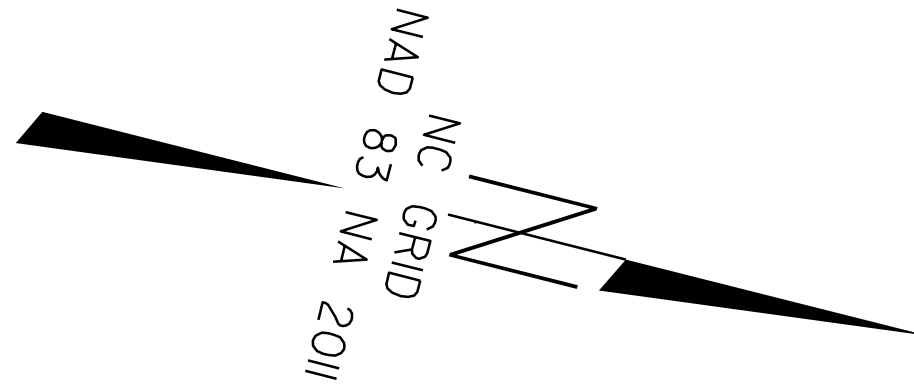
49218.7  
FORT LIBERTY RESURFACING

REVISIONS

8/17/99  
5/1/2025 Merritt\_EC.CG.PSH 06.dgn  
Rock Merritt Ave

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 7

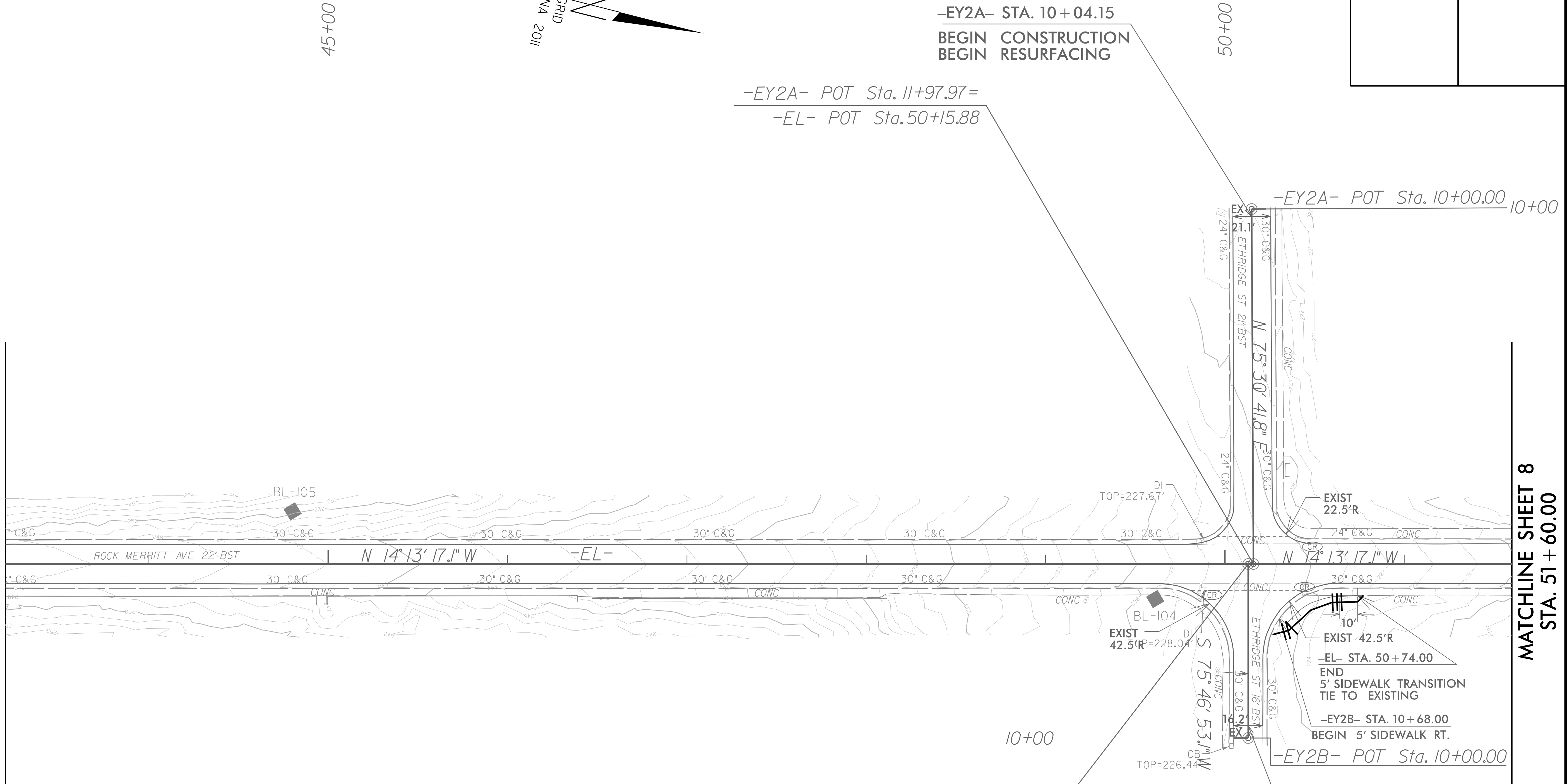


8/17/99

REVISIONS

MATCHLINE SHEET 6  
STA. 43 + 20.00

MATCHLINE SHEET 8  
STA. 51 + 60.00



Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

-EY2B- POT Sta. 10+97.04=  
-EL- POT Sta. 50+12.98

SCALE: 1" = 30'

49218.7  
FORT LIBERTY RESURFACING

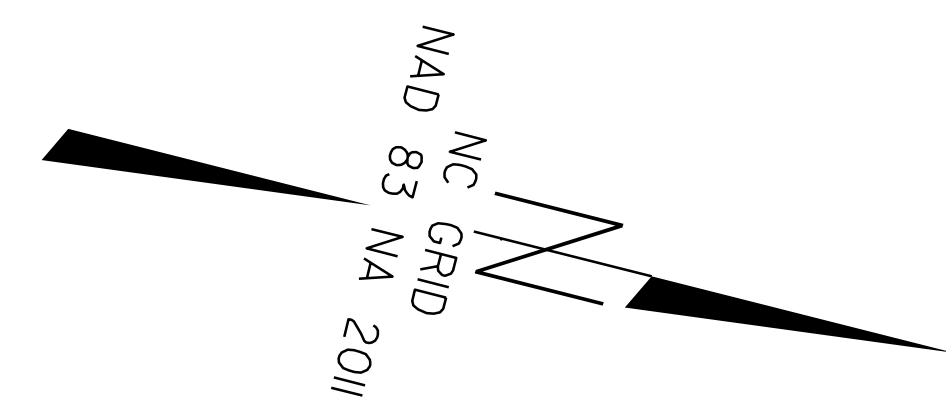
ROCK MERRITT AVE.

5/1/2025 Merritt\_EC\_CO\_PSH\_07.dgn

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 8

NO EROSION CONTROL  
MEASURES ON THIS SHEET

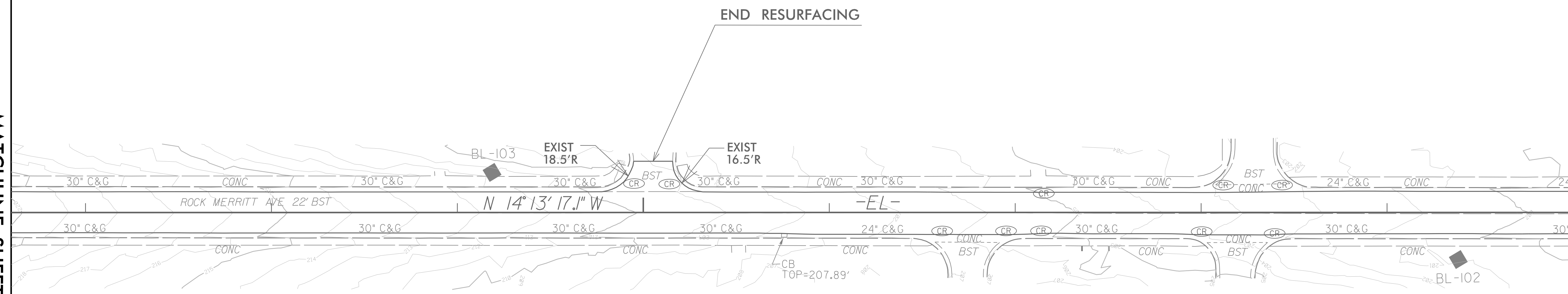


55+00

REVISIONS

MATCHLINE SHEET 7  
STA. 51 + 60.00

MATCHLINE SHEET 9  
STA. 60 + 00.00



Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

SCALE: 1" = 30'

ROCK MERRITT AVE.

49218.7  
FORT LIBERTY RESURFACING

8/17/99

5/1/2025 Merritt\_EC\_CO\_PSH\_08.dgn  
Rock Merritt Ave

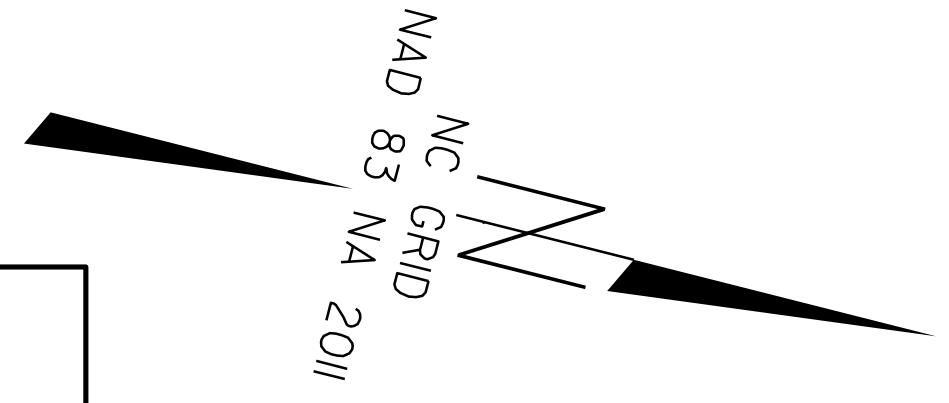
PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-9/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

60+00

65+00

CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 9

NO EROSION CONTROL  
MEASURES ON THIS SHEET



-EY4- STA. 10+11.32  
BEGIN CONSTRUCTION  
BEGIN RESURFACING

-EY4- POT Sta. 10+00.00

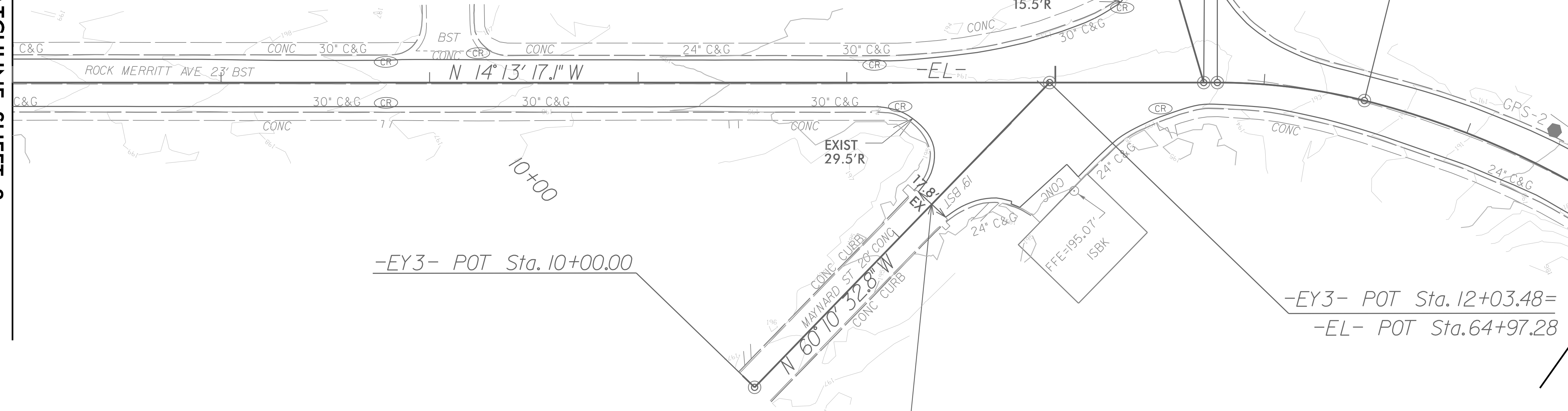
-EY4- POT Sta. 11+99.72=  
-EL- POT Sta. 65+71.18

-EL- PC Sta. 65+77.70

-EL- PCC Sta. 66+48.55

MATCHLINE SHEET 8  
STA. 60+00.00

MATCHLINE SHEET 10  
STA. 68+00.00



-EY3- POT Sta. 10+00.00

-EY3- STA. 11+22.22  
BEGIN CONSTRUCTION  
BEGIN RESURFACING

-EY3- POT Sta. 12+03.48=  
-EL- POT Sta. 64+97.28

-EL-

PI Sta 66+13.48	PI Sta 68+04.37
$\Delta = 13^\circ 58' 26.3" (RT)$	$\Delta = 4^\circ 41' 42.3" (RT)$
$D = 19^\circ 43' 22.5"$	$D = 14^\circ 02' 17.1"$
$L = 70.85'$	$L = 297.01'$
$T = 35.78'$	$T = 155.82'$
$R = 291.94'$	$R = 409.17'$

SCALE: 1" = 30'

ROCK MERRITT AVE.

49218.7

FORT LIBERTY RESURFACING

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

REVISIONS

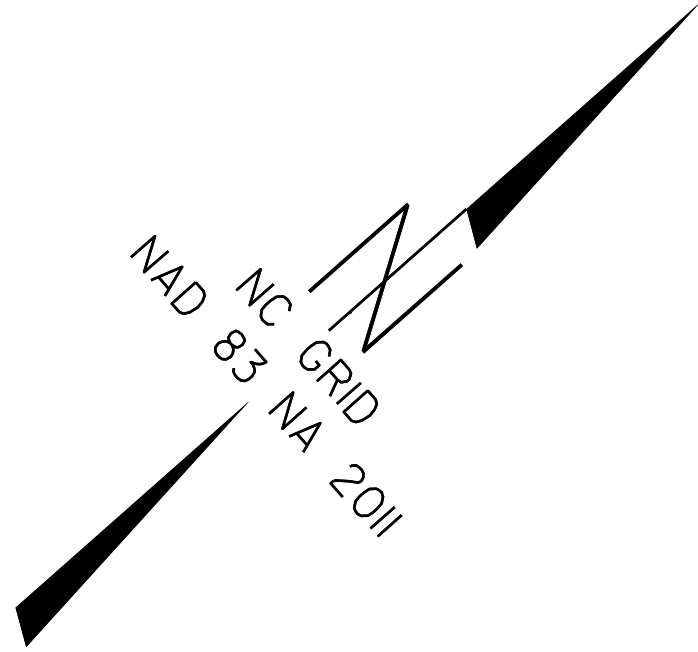
8/17/99

5/1/2025 Merritt\_EC.CG.PSH 09.dgn  
Rock  
Merritt

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING & GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

NO EROSION CONTROL  
MEASURES ON THIS SHEET



REVISIONS

STA. 68 + 00.00  
MATCHLINE SHEET 9

-EL-  
PI Sta 66+13.48      PI Sta 68+04.37  
Δ = 13° 58' 26.3" (RT)      Δ = 4° 41' 42.3" (RT)  
D = 19° 43' 22.5"      D = 14° 02' 17.1"  
L = 70.85'      L = 297.01'  
T = 35.78'      T = 155.82'  
R = 291.94'      R = 409.17'

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

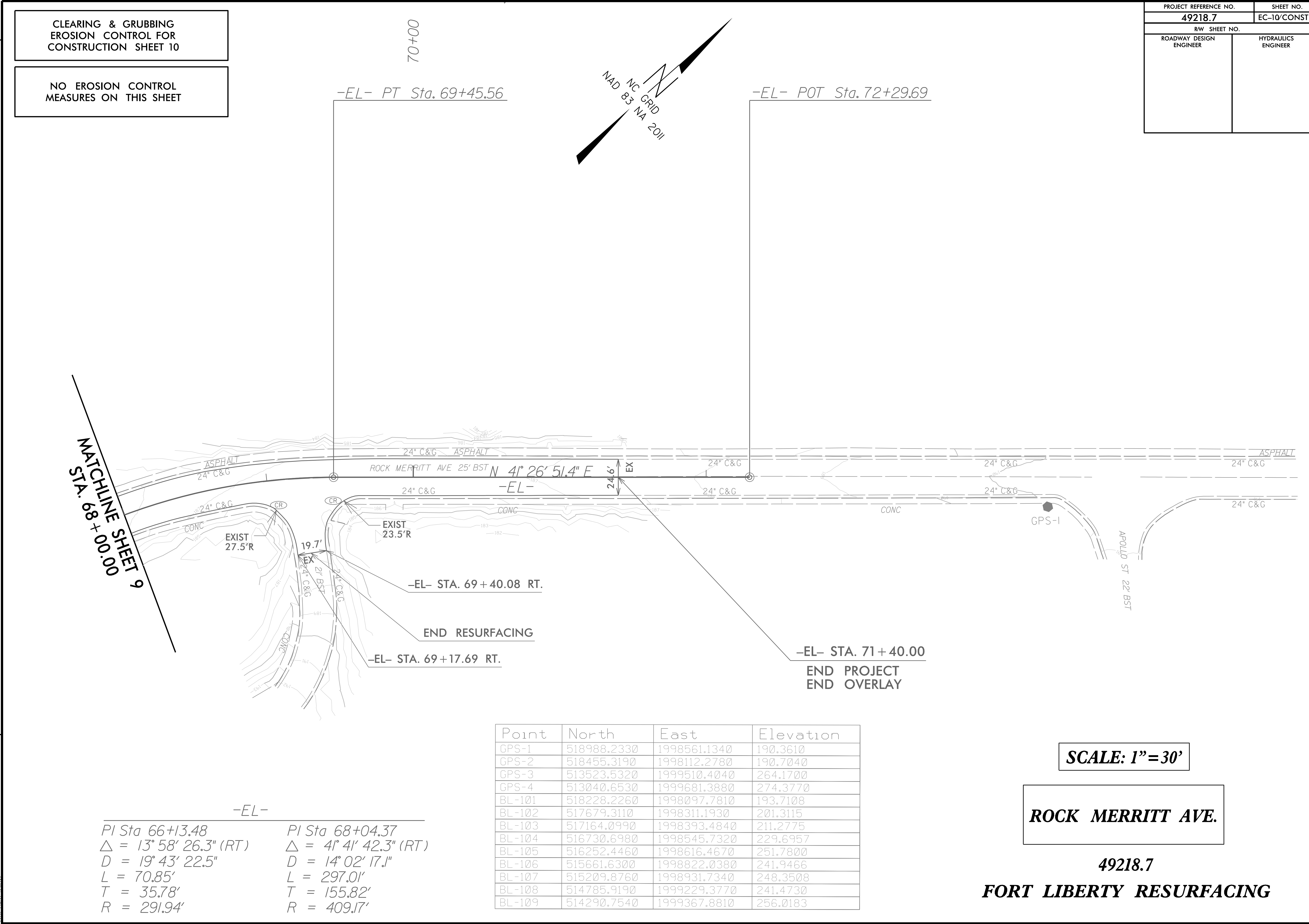
SCALE: 1" = 30'

ROCK MERRITT AVE.

49218.7  
FORT LIBERTY RESURFACING

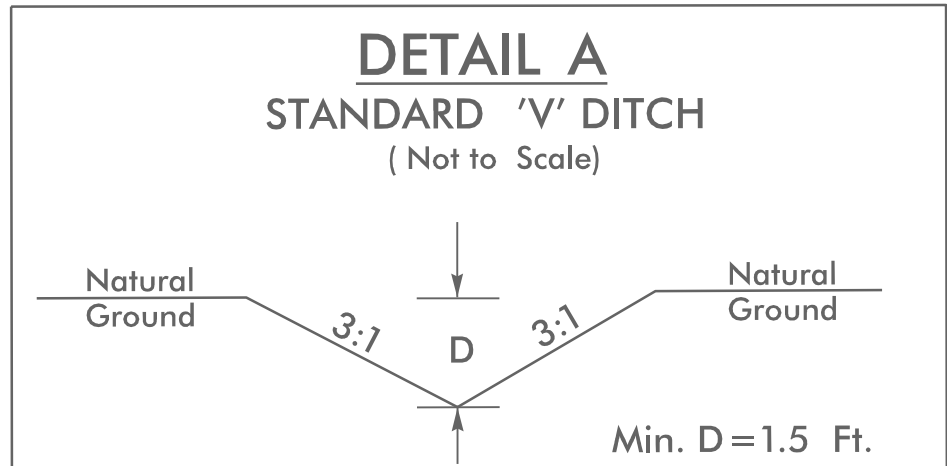
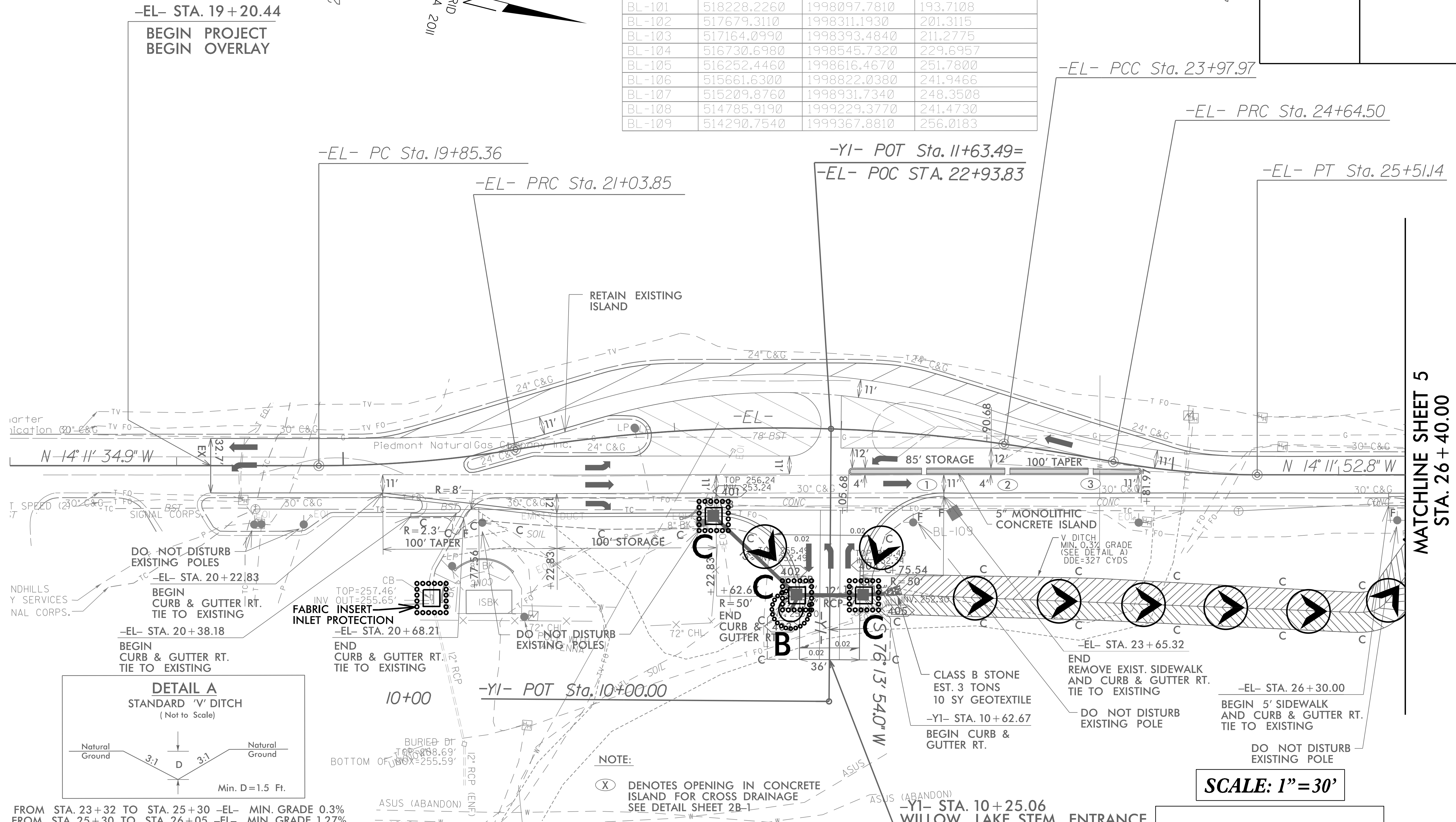
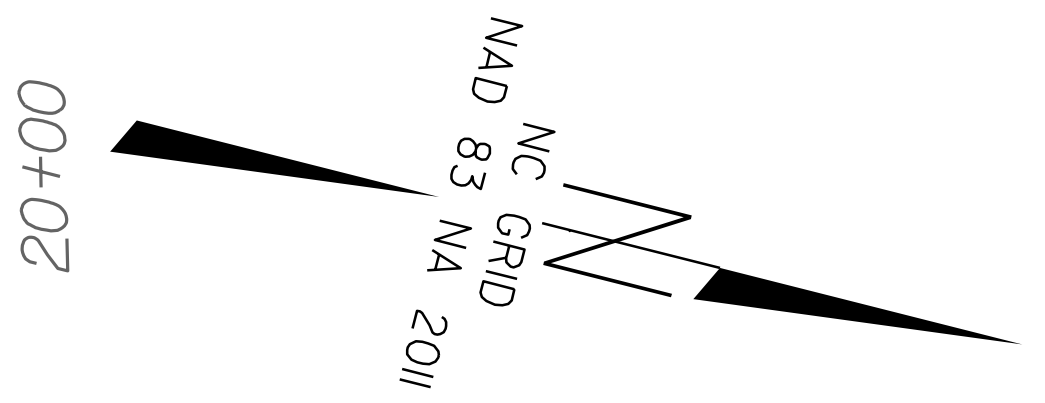
8/17/99

5/1/2025 Merritt\_EC.CG.PSH 10.dgn



PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-1V/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183



FROM STA. 23+32 TO STA. 25+30 -EL- MIN. GRADE 0.3%  
 FROM STA. 25+30 TO STA. 26+05 -EL- MIN. GRADE 1.27%  
 FROM STA. 26+05 TO STA. 26+58 -EL- MIN. GRADE 3.2%

-EL- PI Sta 20+44.78 Δ = 9° 23' 26.7" (LT) D = 7° 55' 32.0" L = 118.49' T = 59.42' R = 723.50'	-EL- PI Sta 22+52.13 Δ = 17° 30' 12.3" (RT) D = 5° 57' 04.1" L = 294.12' T = 148.28' R = 963.20'	-EL- PI Sta 24+31.24 Δ = 2° 12' 14.4" (RT) D = 3° 18' 44.7" L = 66.54' T = 33.28' R = 1,729.97'	-EL- PI Sta 25+08.02 Δ = 10° 19' 17.8" (LT) D = 11° 54' 50.7" L = 86.63' T = 43.51' R = 481.78'
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NOTE:  
 (X) DENOTES OPENING IN CONCRETE ISLAND FOR CROSS DRAINAGE  
 SEE DETAIL SHEET 2B-1

SCALE: 1" = 30'

ROCK MERRITT AVE.

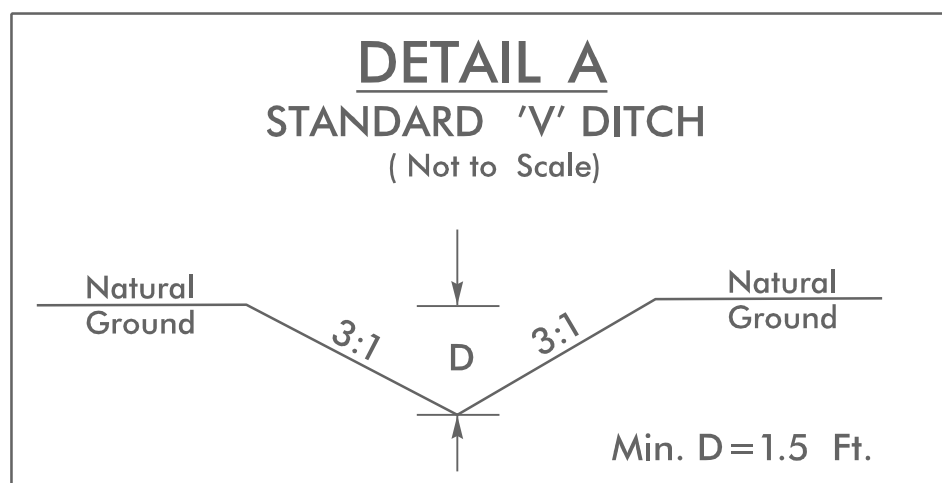
49218.7  
 FORT LIBERTY RESURFACING

REVISIONS

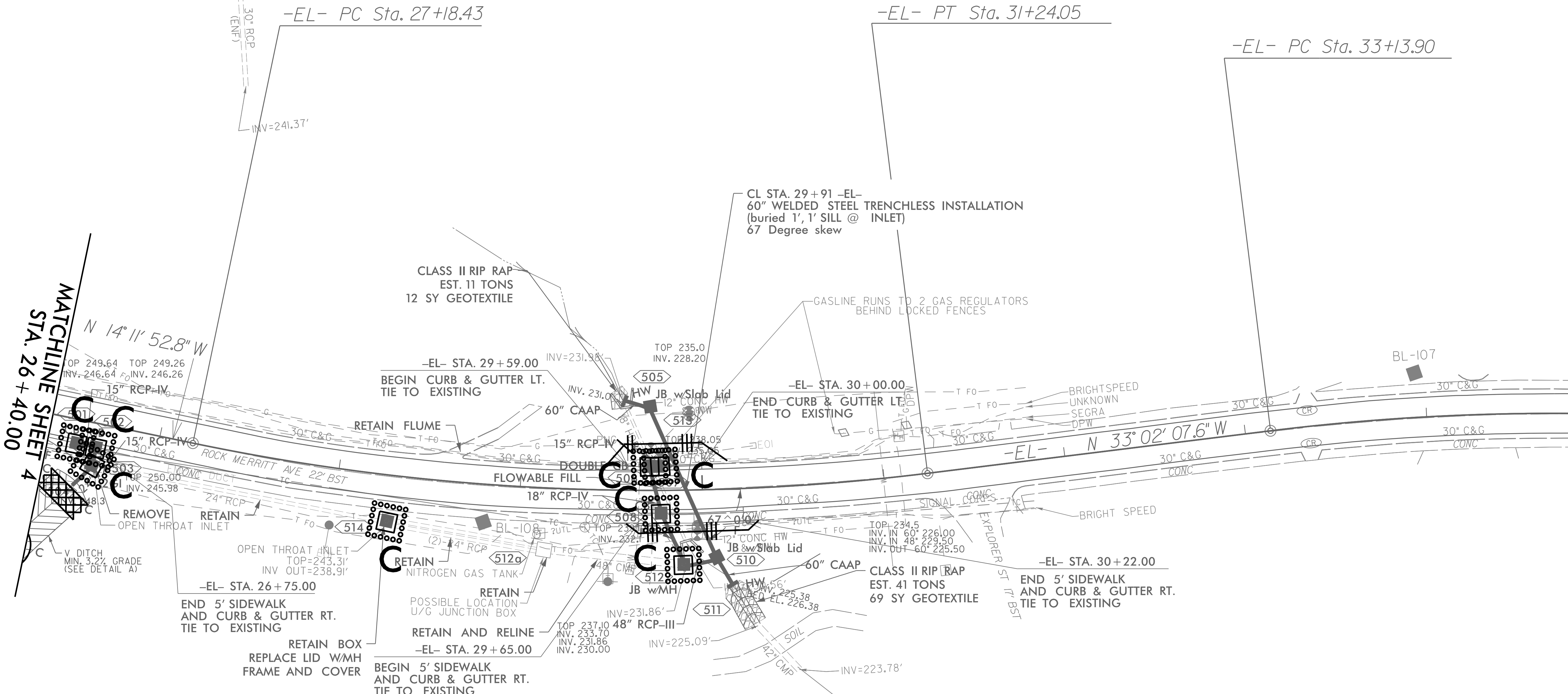
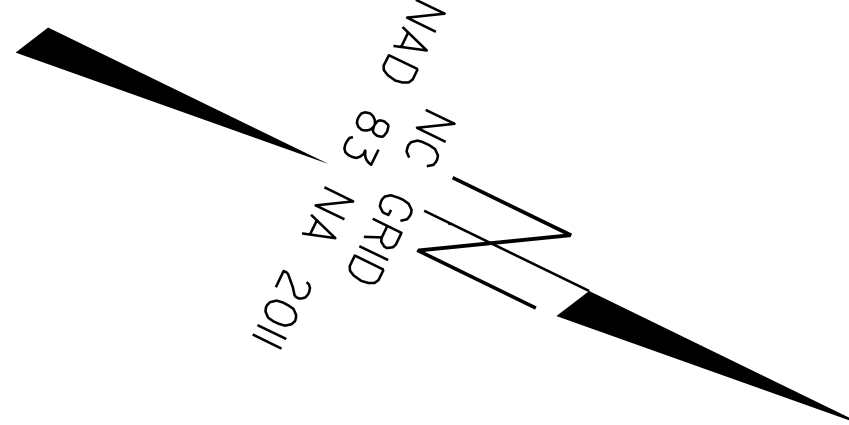
MATCHLINE SHEET 5  
 STA. 26 + 40.00

8/17/99  
 5/1/2025 Merritt-EC\_Final\_PSH\_04.dgn  
 Rock  
 US:RKF:stg

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-12/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

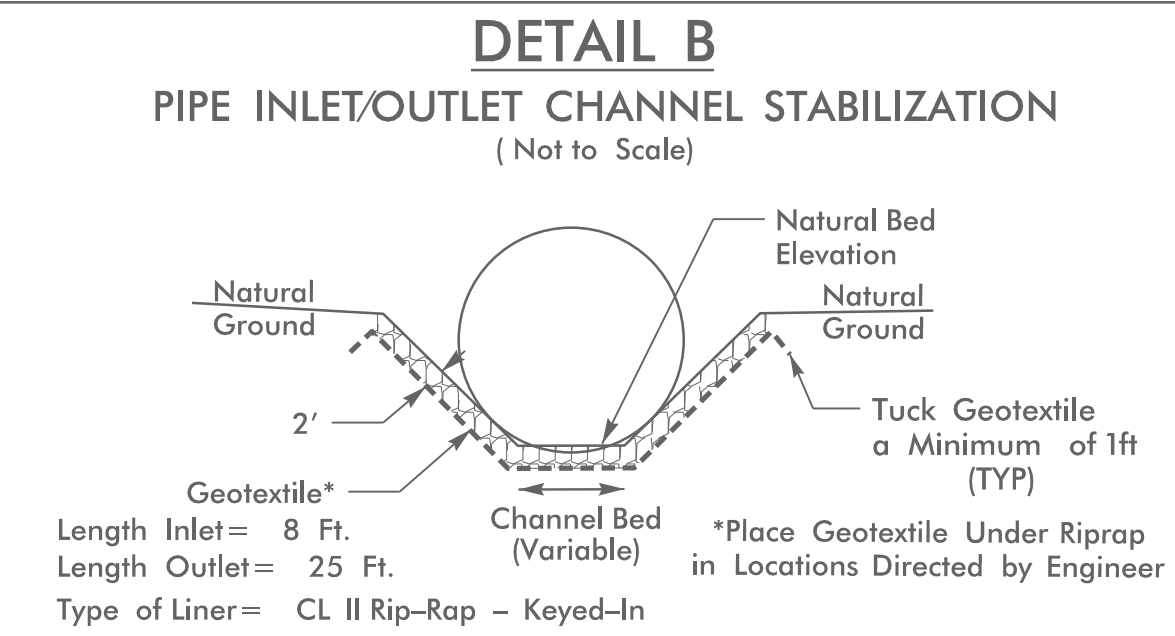


FROM STA. 23+32 TO STA. 25+30 -EL- MIN. GRADE 0.3%  
 FROM STA. 25+30 TO STA. 26+05 -EL- MIN. GRADE 1.27%  
 FROM STA. 26+05 TO STA. 26+58 -EL- MIN. GRADE 3.2%



Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

-EL-  
 PI Sta 29+23.14  
 $\Delta = 18^{\circ} 50' 14.8''$  (LT)  
 $D = 4^{\circ} 38' 38.8''$   
 $L = 405.62'$   
 $T = 204.71'$   
 $R = 1,234.07'$



SCALE: 1" = 30'

ROCK MERRITT AVE.

49218.7

FORT LIBERTY RESURFACING

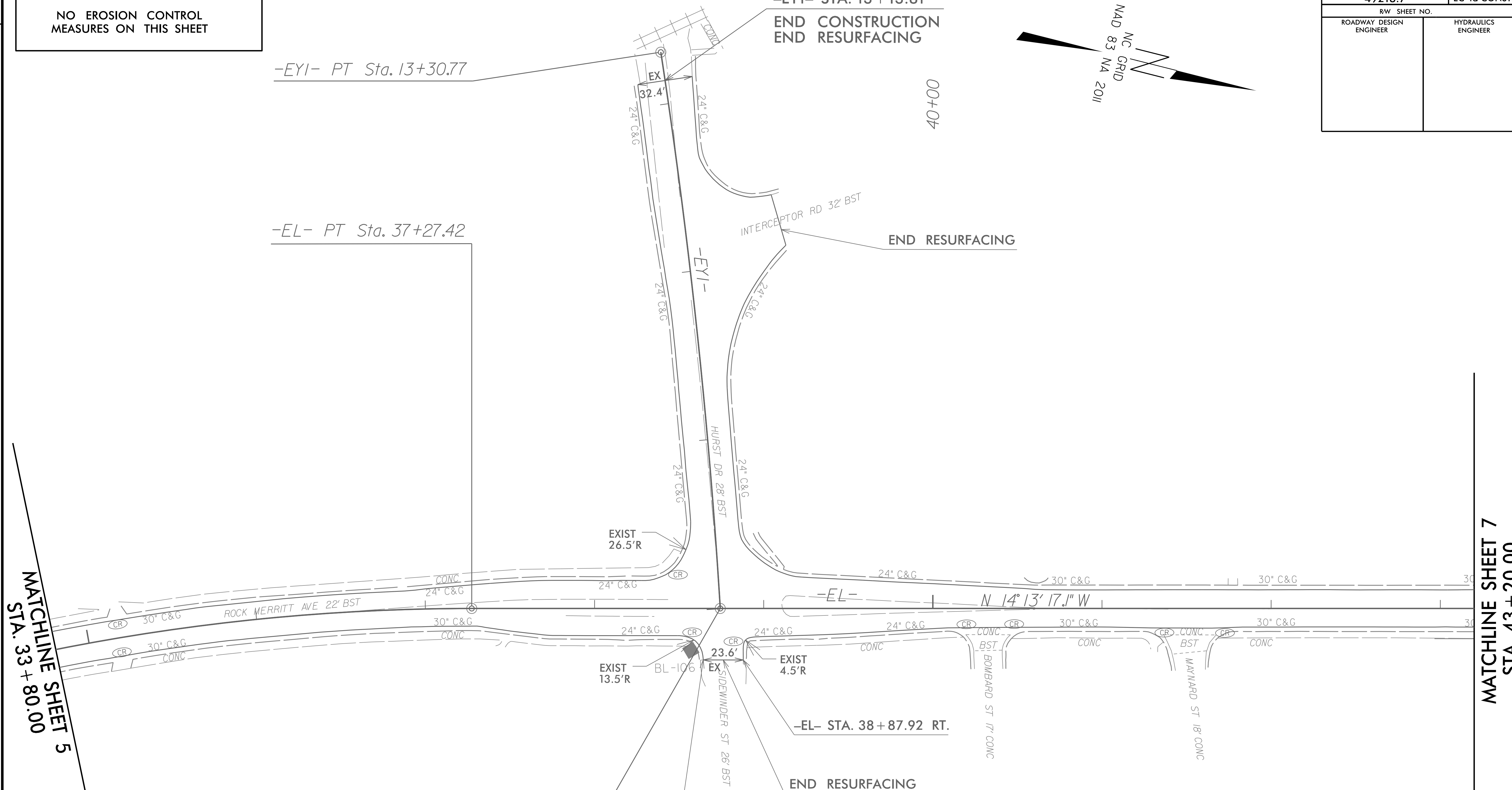
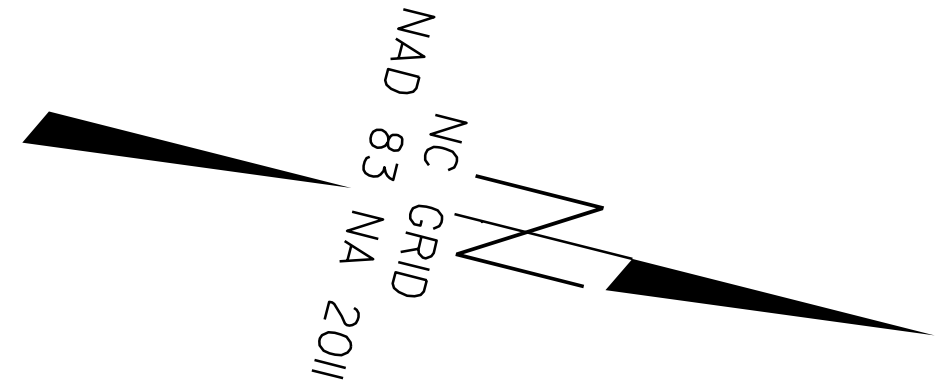
REVISIONS

MATCHLINE SHEET 4  
 STA. 26 + 40.00

MATCHLINE SHEET 6  
 STA. 33 + 80.00

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-13/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NO EROSION CONTROL MEASURES ON THIS SHEET



MATCHLINE SHEET 5  
STA. 33 + 80.00

MATCHLINE SHEET 7  
STA. 43 + 20.00

-EYI-  
PI Sta 11+65.51  
 $\Delta = 5^{\circ}13'51.3''$  (LT)  
 $D = 1^{\circ}34'53.1''$   
 $L = 330.77'$   
 $T = 165.51'$   
 $R = 3,623.18'$

-EYI- PC Sta. 10+00.00=  
-EL- POT Sta. 38+74.32

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
BL-106	515661.6300	1998822.0380	241.9466
BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

SCALE: 1" = 30'

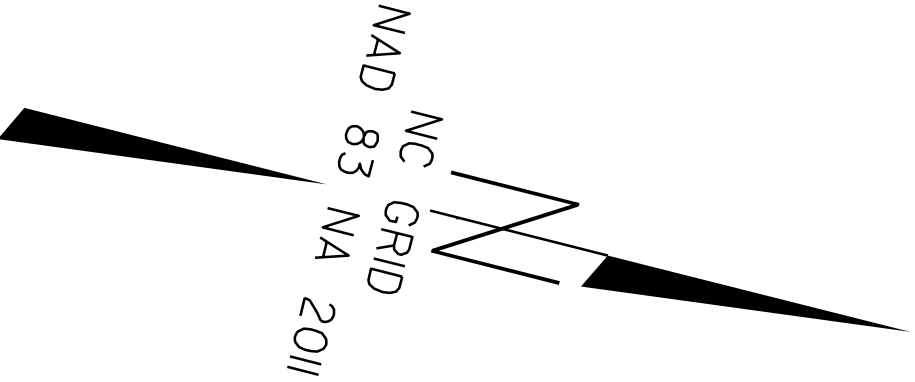
ROCK MERRITT AVE.

49218.7  
FORT LIBERTY RESURFACING

REVISIONS

8/17/99  
5/1/2025 Merritt-EC-final\_PSH\_06.dgn  
Rock Merritt Ave

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-14/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



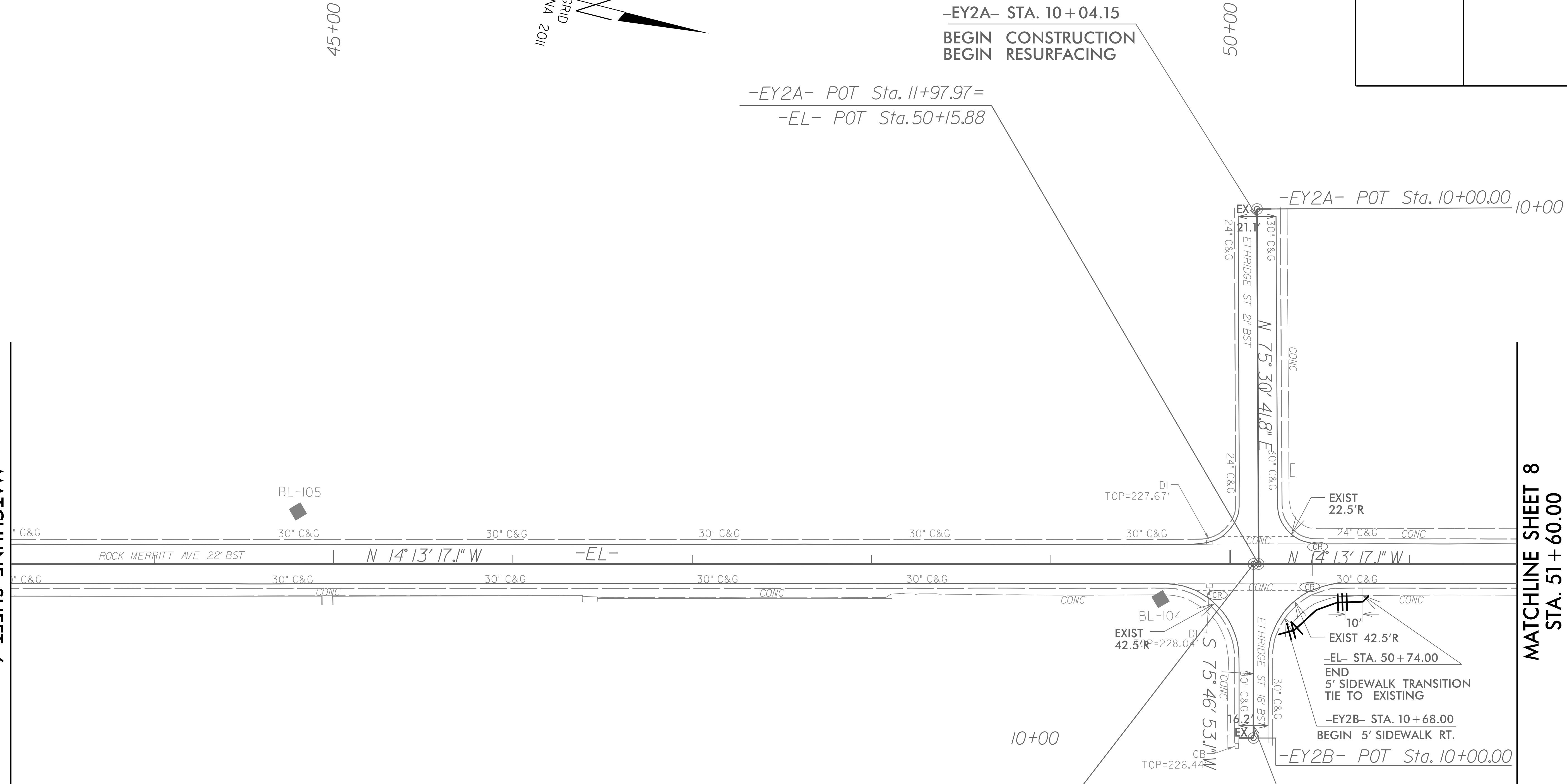
8/17/99

REVISIONS

MATCHLINE SHEET 6  
STA. 43 + 20.00

MATCHLINE SHEET 8  
STA. 51 + 60.00

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
BL-103	517164.0990	1998393.4840	211.2775
BL-104	516730.6980	1998545.7320	229.6957
BL-105	516252.4460	1998616.4670	251.7800
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BL-107	515209.8760	1998931.7340	248.3508
BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183



-EY2B- POT Sta. 10+97.04=  
-EL- POT Sta. 50+12.98

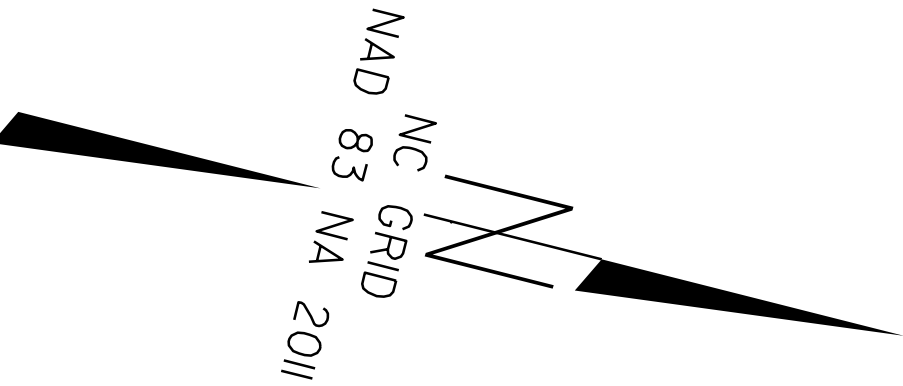
SCALE: 1" = 30'

49218.7  
**FORT LIBERTY RESURFACING**

5/1/2025 Merritt\_EC\_Final\_PSH\_07.dgn  
Rock  
USP&E

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-15/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

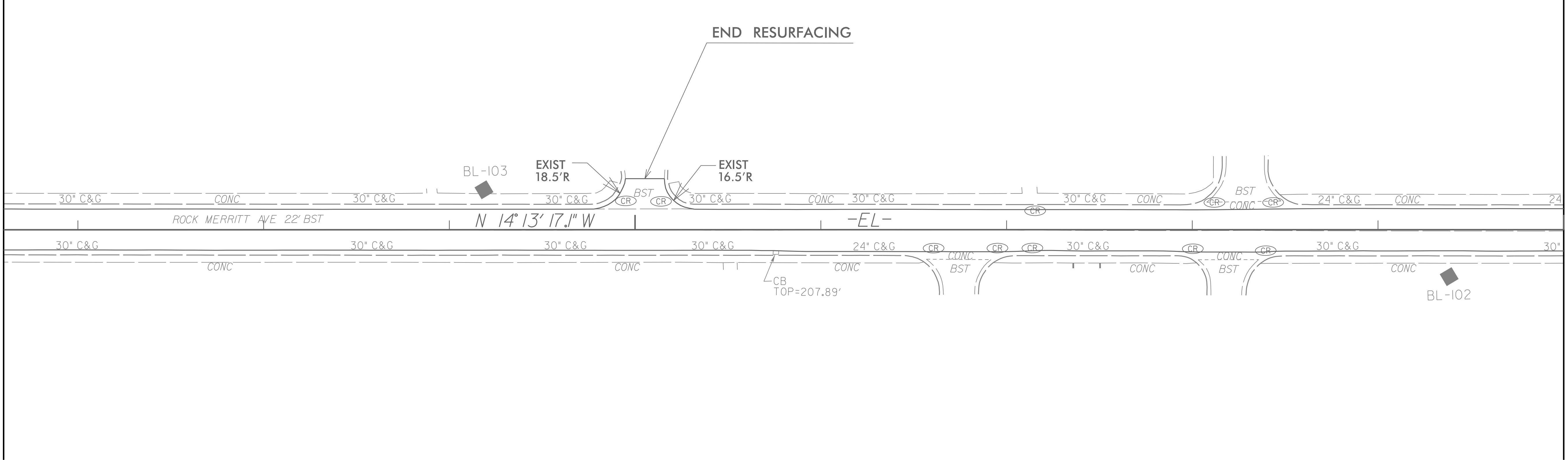
NO EROSION CONTROL MEASURES ON THIS SHEET



55+00

REVISIONS

MATCHLINE SHEET 7  
STA. 51 + 60.00



MATCHLINE SHEET 9  
STA. 60 + 00.00

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
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BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

SCALE: 1" = 30'

ROCK MERRITT AVE.

49218.7

FORT LIBERTY RESURFACING

8/17/99

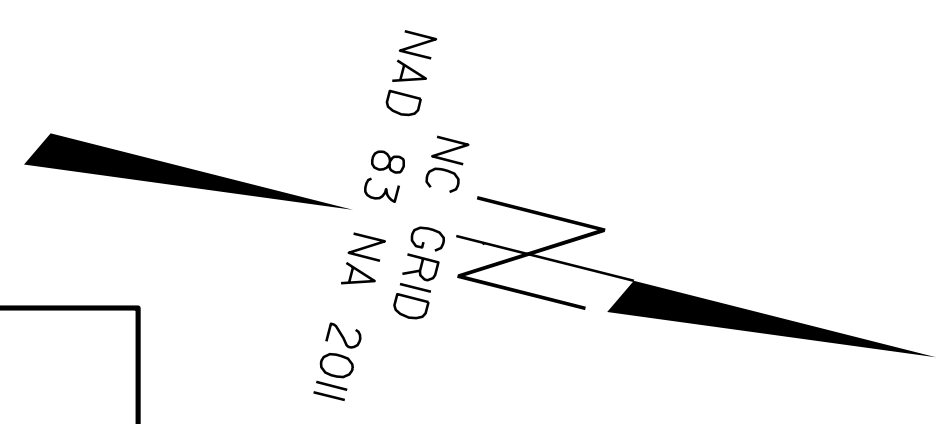
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Rock Merritt Ave

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-16/CONST. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

00+00

65+00

NO EROSION CONTROL MEASURES ON THIS SHEET



-EY4- STA. 10+11.32  
BEGIN CONSTRUCTION  
BEGIN RESURFACING

-EY4- POT Sta. 10+00.00

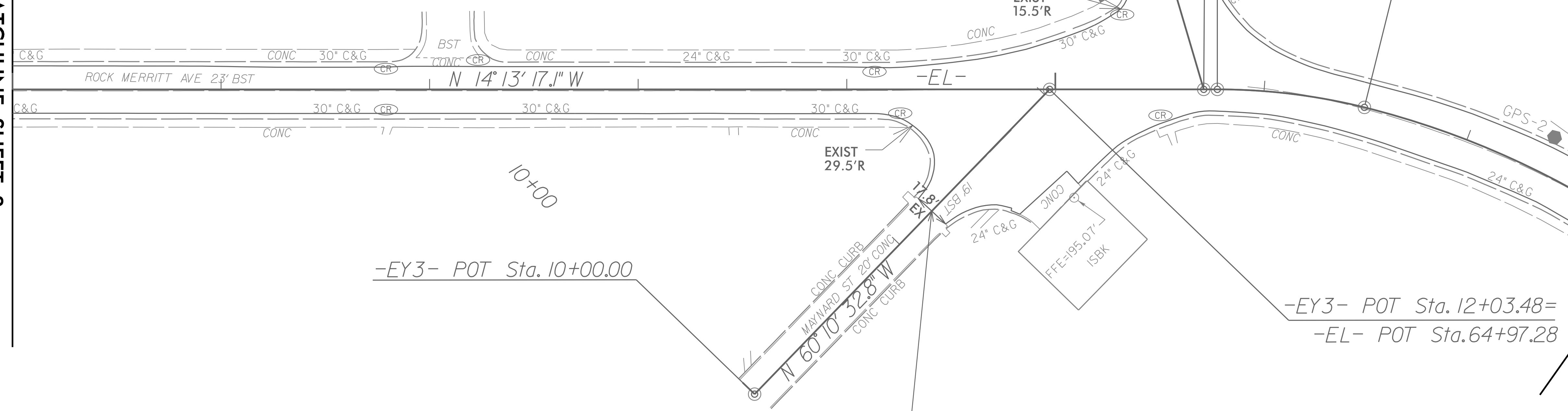
-EY4- POT Sta. 11+99.72=  
-EL- POT Sta. 65+71.18

-EL- PC Sta. 65+77.70

-EL- PCC Sta. 66+48.55

MATCHLINE SHEET 8  
STA. 60+00.00

MATCHLINE SHEET 10  
STA. 68+00.00



-EY3- POT Sta. 10+00.00

-EY3- STA. 11+22.22  
BEGIN CONSTRUCTION  
BEGIN RESURFACING

-EY3- POT Sta. 12+03.48=  
-EL- POT Sta. 64+97.28

Point	North	East	Elevation
GPS-1	518988.2330	1998561.1340	190.3610
GPS-2	518455.3190	1998112.2780	190.7040
GPS-3	513523.5320	1999510.4040	264.1700
GPS-4	513040.6530	1999681.3880	274.3770
BL-101	518228.2260	1998097.7810	193.7108
BL-102	517679.3110	1998311.1930	201.3115
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BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

-EL-  
 PI Sta 66+13.48      PI Sta 68+04.37  
 $\Delta = 13^{\circ} 58' 26.3''$  (RT)       $\Delta = 4^{\circ} 41' 42.3''$  (RT)  
 $D = 19^{\circ} 43' 22.5''$        $D = 14^{\circ} 02' 17.1''$   
 $L = 70.85'$        $L = 297.01'$   
 $T = 35.78'$        $T = 155.82'$   
 $R = 291.94'$        $R = 409.17'$

SCALE: 1" = 30'

ROCK MERRITT AVE.

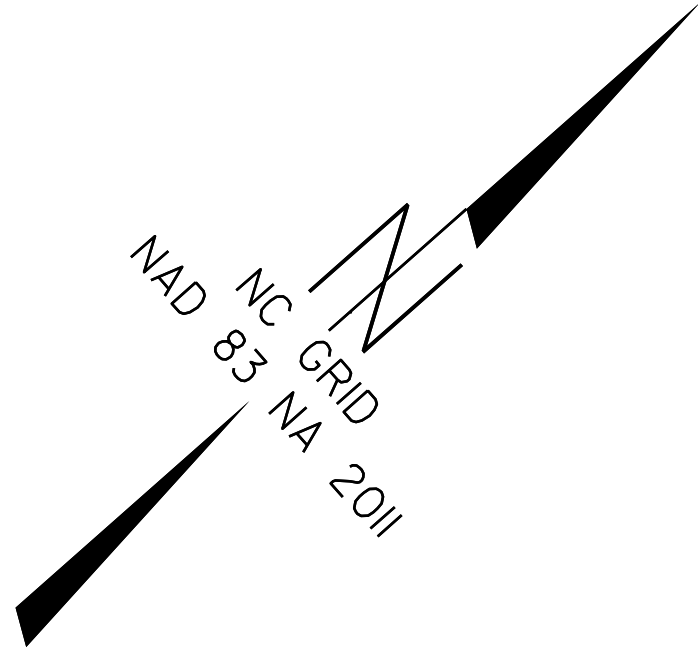
49218.7  
FORT LIBERTY RESURFACING

REVISIONS

8/17/99  
5/1/2025 Merritt\_EC\_Final\_PSH\_09.dgn  
Rock Merritt Ave

PROJECT REFERENCE NO.	SHEET NO.
49218.7	EC-17/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NO EROSION CONTROL MEASURES ON THIS SHEET



STA. 68+00.00  
MATCHLINE SHEET 9

-EL-  
 PI Sta 66+13.48      PI Sta 68+04.37  
 $\Delta = 13^\circ 58' 26.3''$  (RT)       $\Delta = 4^\circ 41' 42.3''$  (RT)  
 $D = 19^\circ 43' 22.5''$        $D = 14^\circ 02' 17.1''$   
 $L = 70.85'$        $L = 297.01'$   
 $T = 35.78'$        $T = 155.82'$   
 $R = 291.94'$        $R = 409.17'$

Point	North	East	Elevation
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BL-108	514785.9190	1999229.3770	241.4730
BL-109	514290.7540	1999367.8810	256.0183

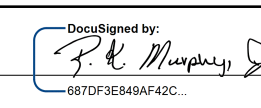
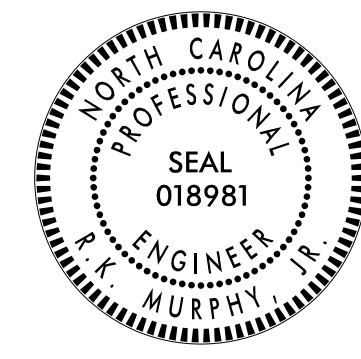
SCALE: 1"=30'

ROCK MERRITT AVE.

49218.7  
FORT LIBERTY RESURFACING

REVISIONS

8/17/99  
5/1/2025 Merritt\_EC\_Final\_PSH\_10.dgn

TIP NO. 49218.7	SHEET NO. SIGN-01
APPROVED: 	
DATE: 8/6/2025	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
CUMBERLAND COUNTY**

**LOCATION: ROCK MERRITT AVE FROM THE  
FORMER ACCESS CONTROL POINT  
NORTH OF BUTNER RD TO  
APPROXIMATELY 0.15 MILES  
NORTH OF BOXCAR ST**

**T.I.P.: 49218.7**

**CONTRACT: DF00514**

**SUMMARY OF QUANTITIES**

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	367	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1016.5	L.F.
4102000000	904	SIGN ERECTION, TYPE E	90	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	19	EA.

**INDEX**

SHEET NO.	DESCRIPTION
SIGN-01	TITLE SHEET
SIGN-02	TYPE E SHEET
SIGN-03-07	SIGN DETAIL SHEETS

**ROADWAY STANDARD DRAWING**

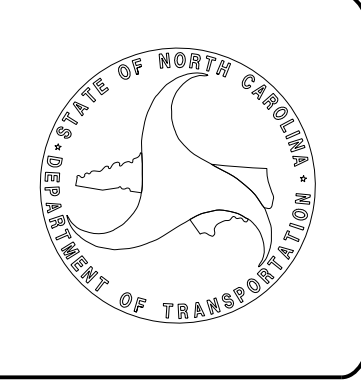
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS


**GENERAL NOTES**

- A) SIGNS FURNISHED BY CONTRACTOR.
- B) IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- C) WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- D) ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- E) THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

**PLAN SUBMITTED TO:**  
  
**CHRISTY W. HUFF, P.E., DIVISION PROJECT MANAGER**



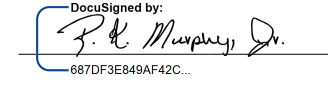
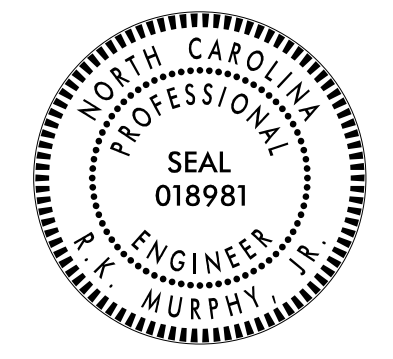
**PLAN PREPARED BY: Wetherill Engineering, Inc.**  
  
**R.K. MURPHY, P.E.** PROJECT MANAGER  
**D. ALLEN HAYES, E.I.** TRAFFIC DESIGN ENGINEERING INTERN

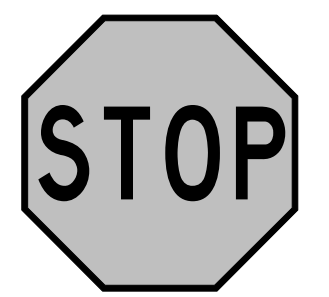






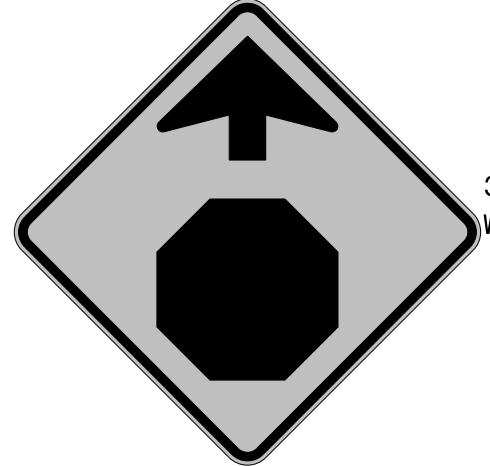

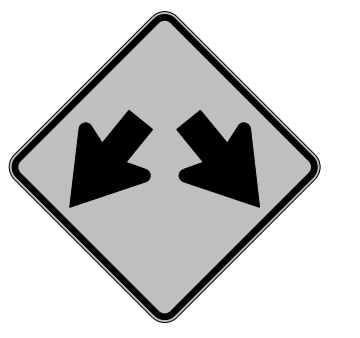






1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

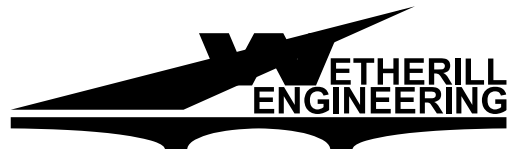
4/8/2025  
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User: AHAYES

TIP NO.	SHEET NO.
49218.7	SIGN-02
APPROVED: 	
DATE: 8/6/2025	
SEAL	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

<b>401</b> QUANTITY REQ'D 1   36" x 36" R01-01  ONE 3LB/FT U-CHANNEL POST	<b>402</b> QUANTITY REQ'D 14   18" x 18" R01-05L  ONE 3LB/FT U-CHANNEL POST	<b>403</b> QUANTITY REQ'D 9   24" x 30" R02-01  ONE 3LB/FT U-CHANNEL POST	<b>404</b> QUANTITY REQ'D 1   24" x 24" R03-02  ONE 3LB/FT U-CHANNEL POST	<b>405</b> QUANTITY REQ'D 1   24" x 30" R04-03 MOD  ONE 3LB/FT U-CHANNEL POST	<b>406</b> QUANTITY REQ'D 3   24" x 30" R04-07  ONE 3LB/FT U-CHANNEL POST	
<b>407</b> QUANTITY REQ'D 1   36" x 12" R06-01L  TWO 3LB/FT U-CHANNEL POSTS	<b>408</b> QUANTITY REQ'D 1   30" x 30" W03-01  ONE 3LB/FT U-CHANNEL POST	<b>409</b> QUANTITY REQ'D 28   30" x 30" W11-2  ONE 3LB/FT U-CHANNEL POST	<b>410</b> QUANTITY REQ'D 1   30" x 30" W12-01  ONE 3LB/FT U-CHANNEL POST	<b>411</b> QUANTITY REQ'D 1   36" x 36" W14-01  ONE 3LB/FT U-CHANNEL POST	<b>412</b> QUANTITY REQ'D 1   24" x 12" W16-02a  MOUNT BELOW SIGN 408 IN ONE INSTALLATION	<b>413</b> QUANTITY REQ'D 14   24" x 12" W16-07pL  MOUNT BELOW SIGN 409 IN 14 INSTALLATIONS
<b>414</b> QUANTITY REQ'D 14   24" x 12" W16-07pR  MOUNT BELOW SIGN 409 IN 14 INSTALLATIONS						

4/8/2025  
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 User: AHAYES

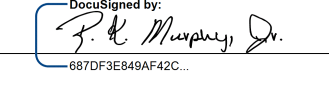
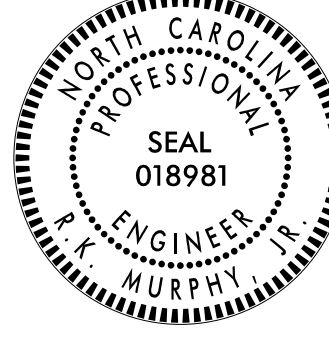
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F

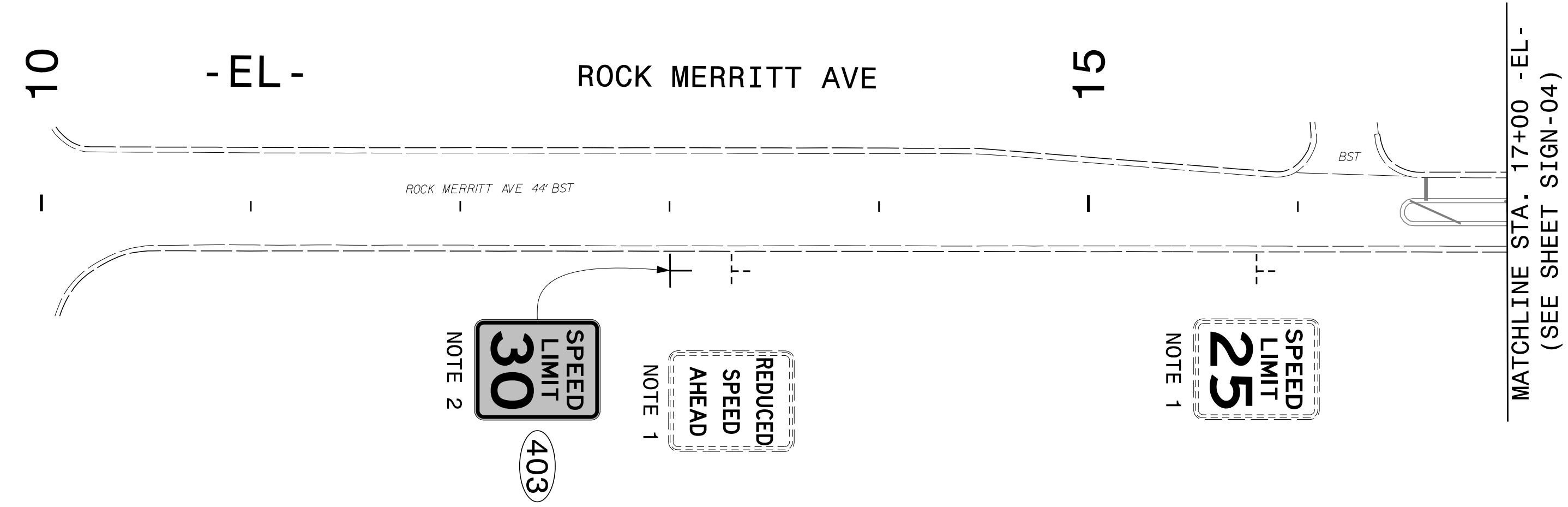
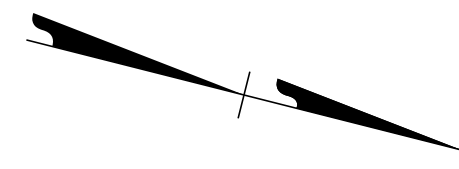


1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION


## TYPE "E" SIGNS

TIP NO. 49218.7	SHEET NO. SIGN-03
APPROVED:  DATE: 8/6/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



4/8/2025  
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User: jshannon

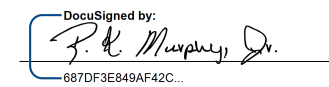

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F

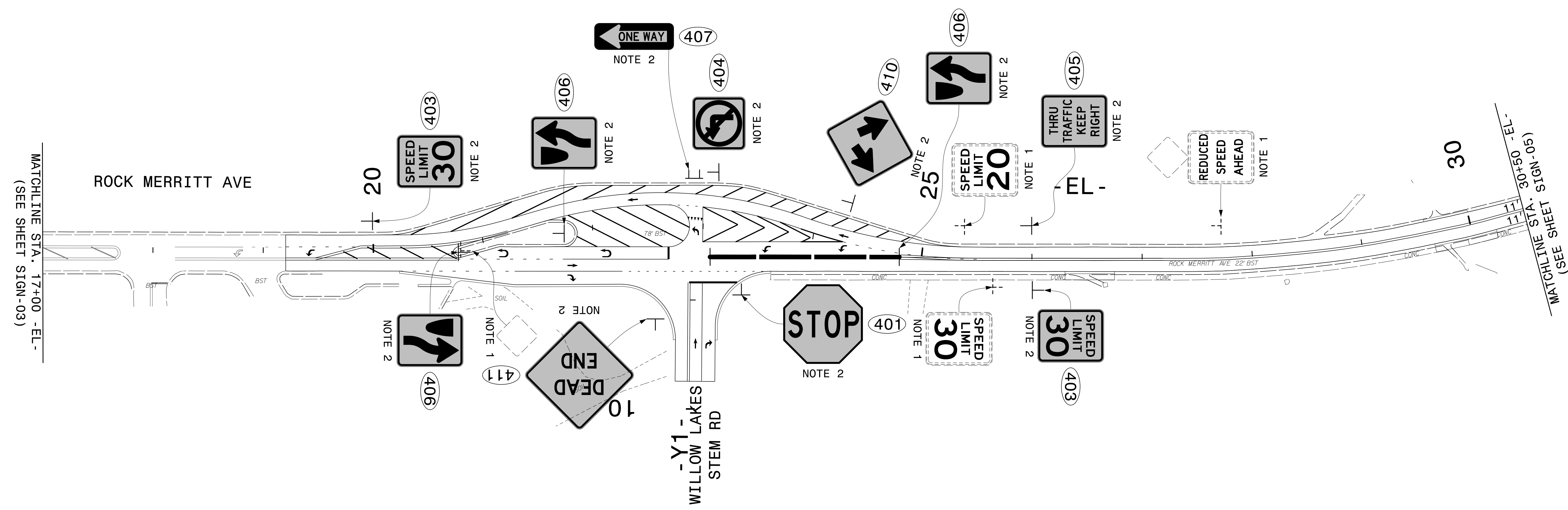


1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

### SIGN DESIGNS

TIP NO. 49218.7	SHEET NO. SIGN-04
APPROVED:  P. K. Murphy, Jr. REGISTERED PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA	
DATE: 8/6/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




MATCHLINE STA. 17+00 -EL-  
(SEE SHEET SIGN-03)

MATCHLINE STA. 30+50 -EL-  
(SEE SHEET SIGN-05)

4/8/2025  
\\wet-fs\projects\2023\23444.01ft. Bragg-Reilly Road\Traffic\Traffic Design\2 Plan Design\3 Signing\F+BraggReillyRd\_SIGN\_04.dgn  
User: AHAYES


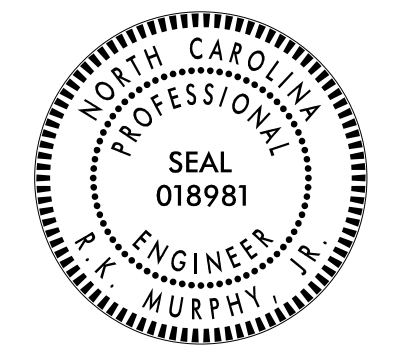
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- 2 SIGN ERECTION, TYPE D, E, AND F

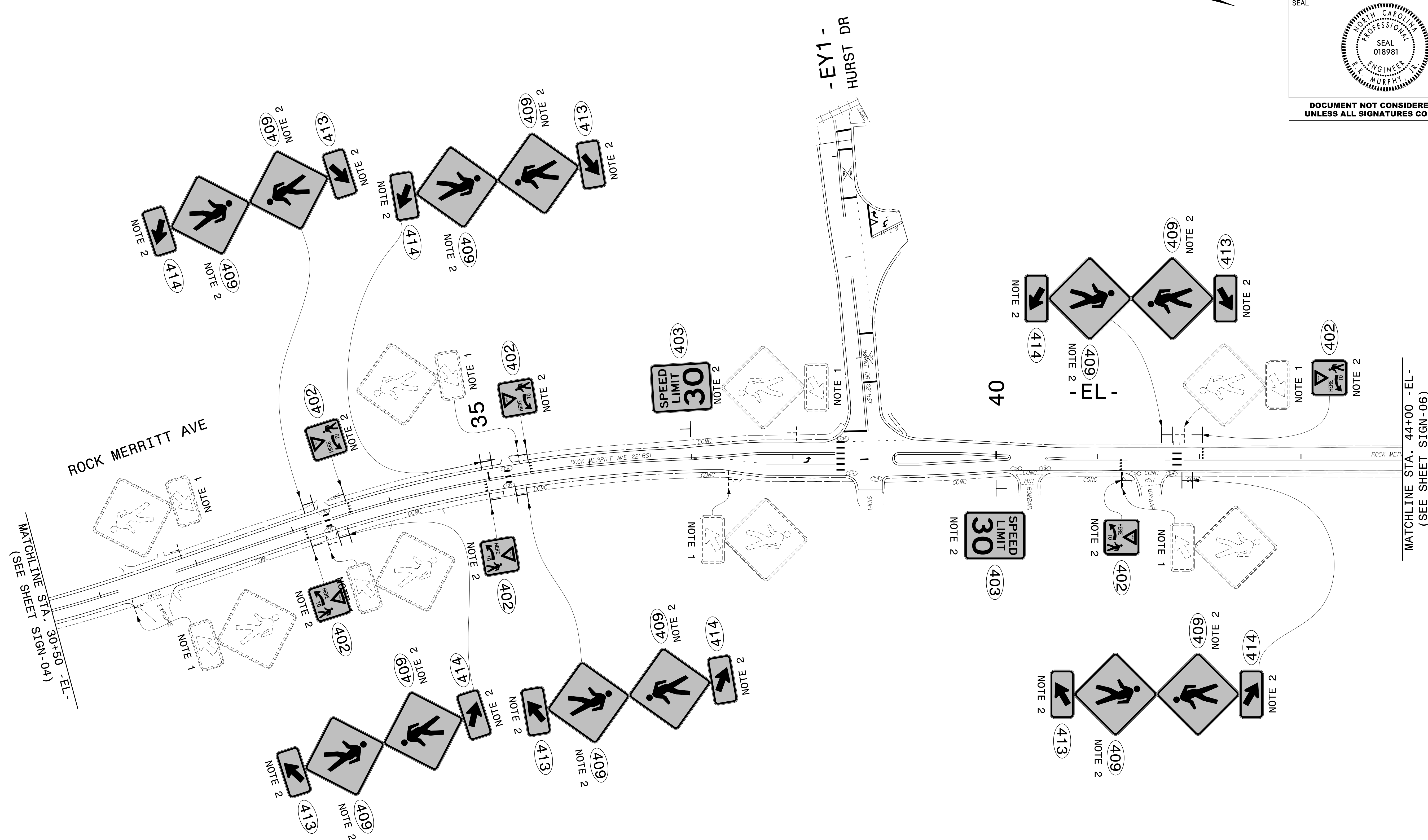


1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

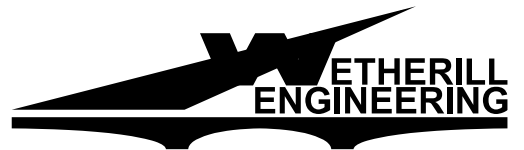
## SIGN DESIGNS

TIP NO. 49218.7	SHEET NO. SIGN-05
APPROVED: 	
DATE: 8/6/2025	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



4/8/2025  
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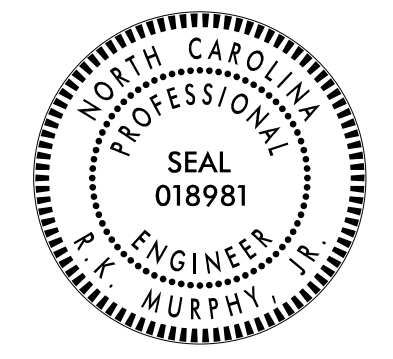
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- 2 SIGN ERECTION, TYPE D, E, AND F

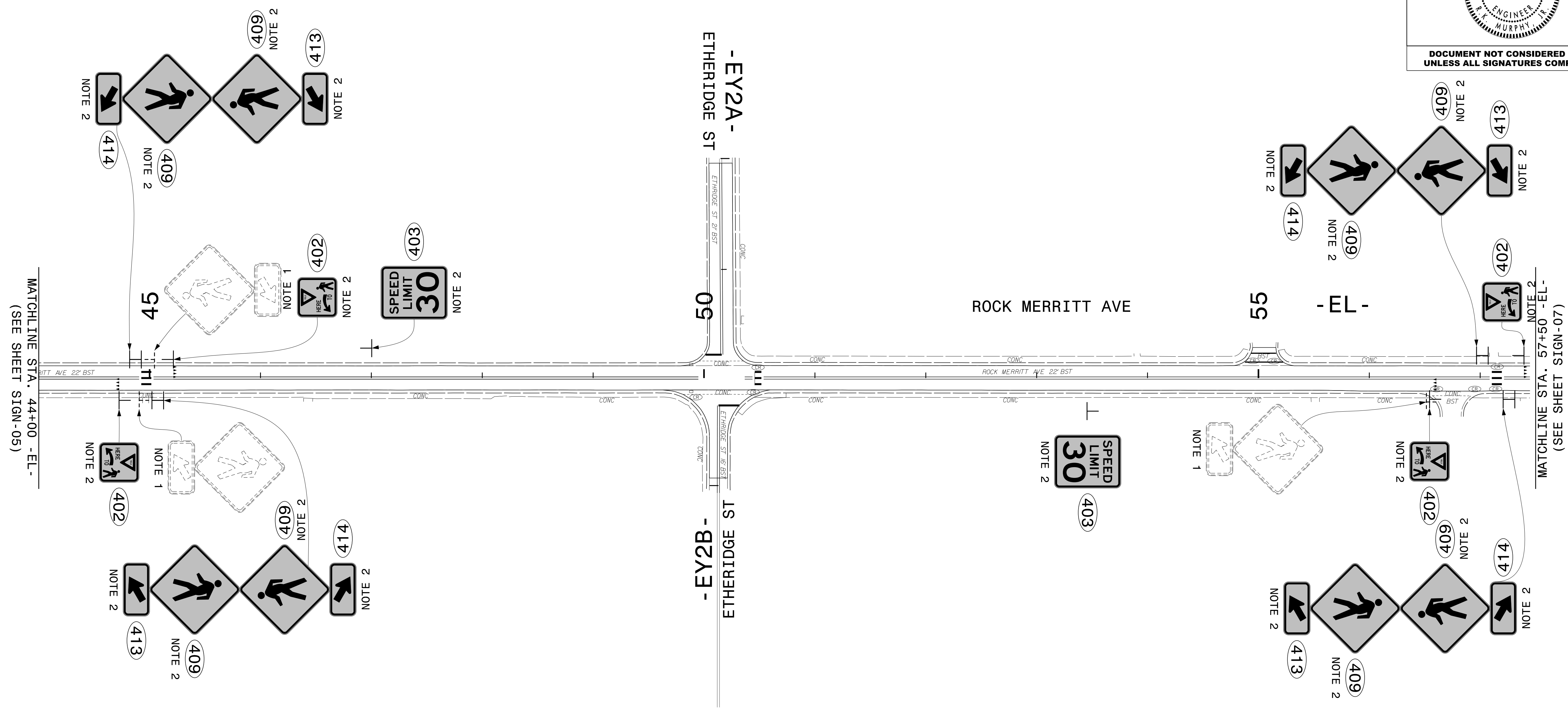


1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

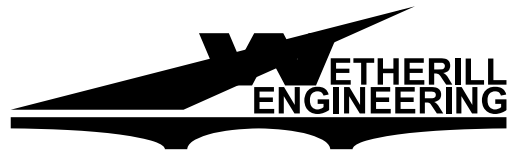
## SIGN DESIGNS

TIP NO. 49218.7	SHEET NO. SIGN-06
APPROVED:  DESIGNED BY: P.K. MURPHY, JR. REGISTERED PROFESSIONAL ENGINEER STATE OF NORTH CAROLINA LICENSE NO. 018981	
DATE: 8/6/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



4/17/2025  
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 User: AHAYES

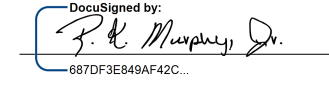
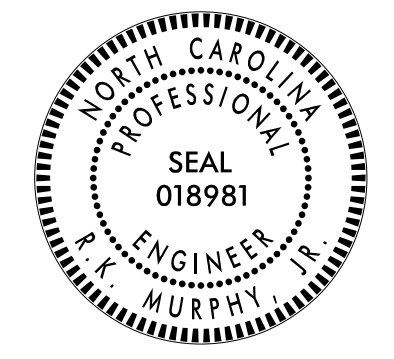
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- 2 SIGN ERECTION, TYPE D, E, AND F

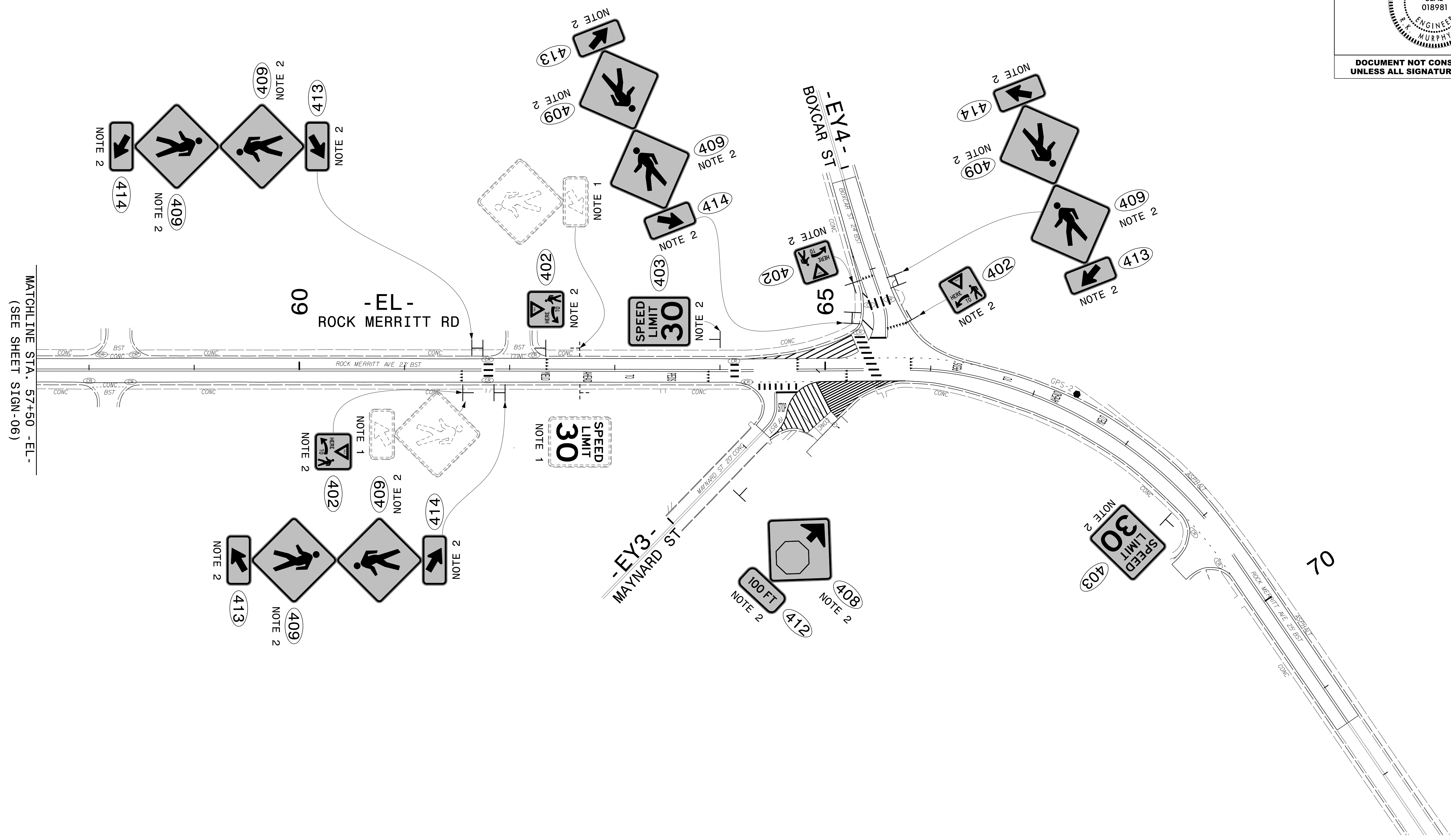
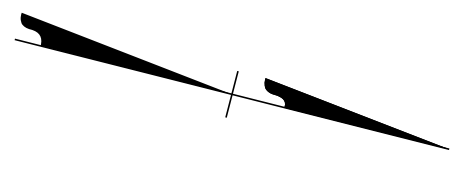


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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

## SIGN DESIGNS

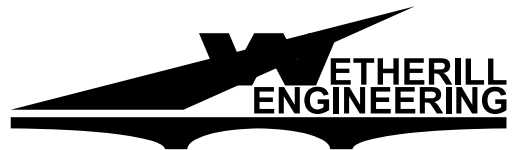
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APPROVED: 	
DATE: 8/6/2025	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



MATCHLINE STA. 57+50 -EL-  
(SEE SHEET SIGN-06)

4/17/2025  
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 User: AHAYES

- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 2 SIGN ERECTION, TYPE D, E, AND F



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

## SIGN DESIGNS

09/08/99

**TIP PROJECT: 49218.7**

**CONTRACT: DF00444**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
49218.7	UO-1

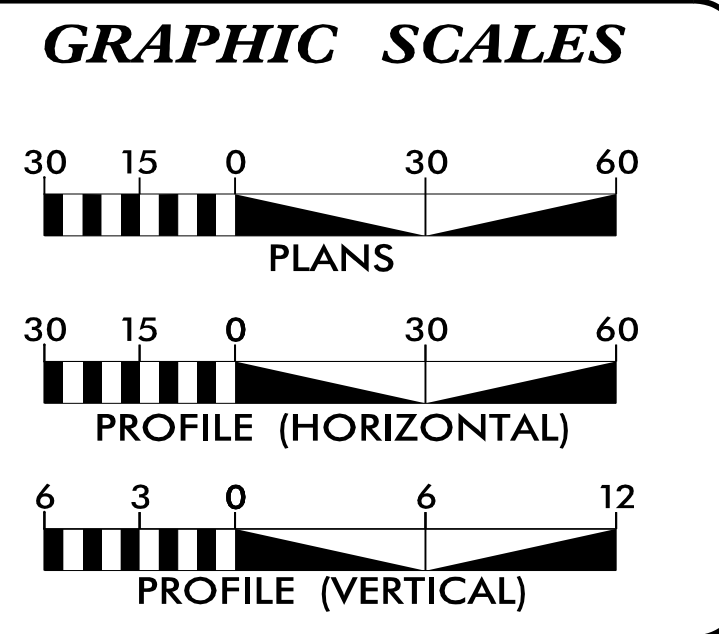
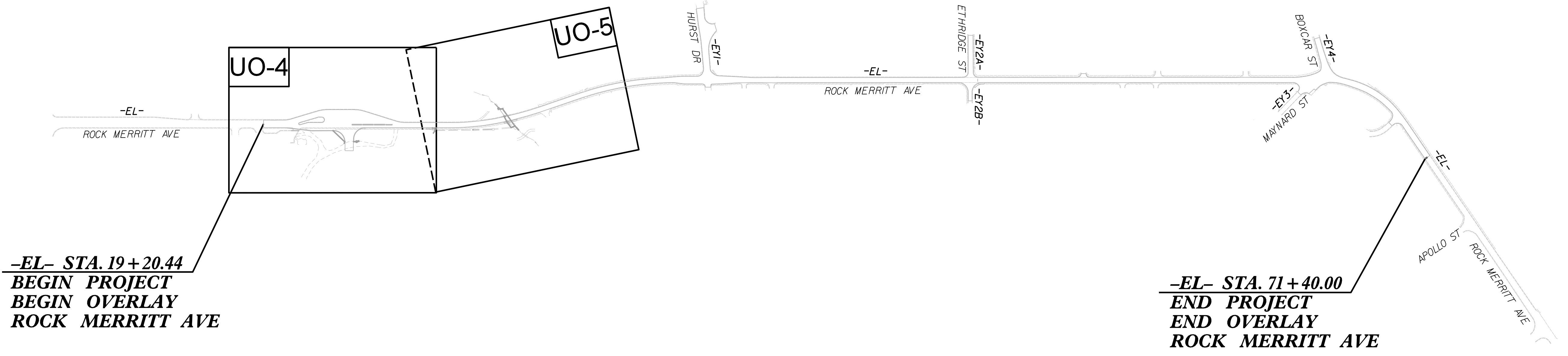
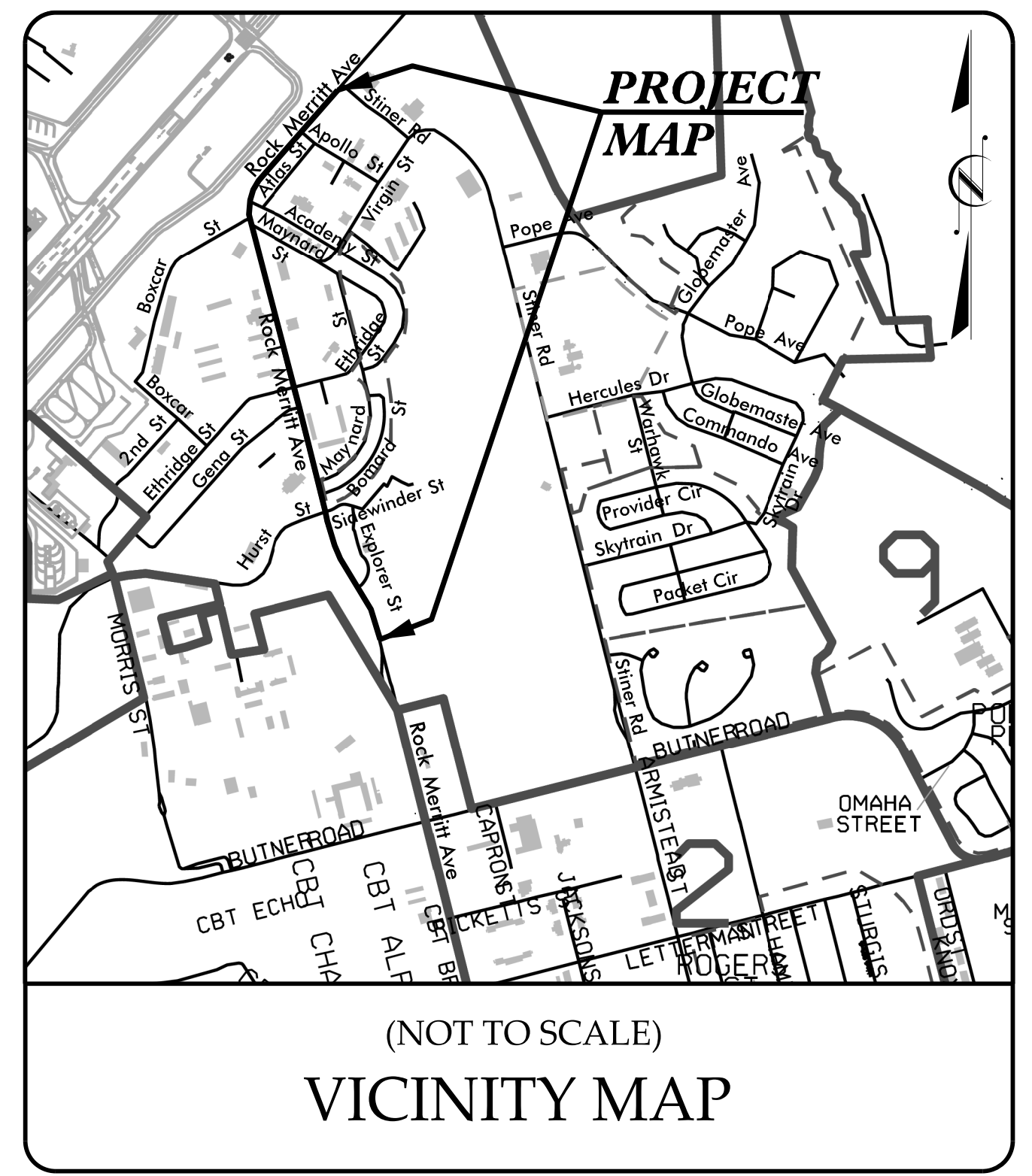
**NOTE:**  
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.  
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED

# UTILITIES BY OTHERS PLANS CUMBERLAND COUNTY

**LOCATION: ROCK MERRITT AVE  
FROM THE FORMER ACCESS CONTROL POINT  
NORTH OF BUTNER RD TO APPROXIMATELY  
0.15 MILES NORTH OF BOXCAR ST**

**TYPE OF WORK: UTILITY RELOCATION BY OTHERS**



**INDEX OF SHEETS**

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	SYMBOLOLOGY SHEET
UO-3	SHEET OMITTED
UO-4 THRU UO-5	UBO PLAN SHEET

**UTILITY OWNERS WITH CONFLICTS**

(A) COMMUNICATIONS - BRIGHTSPEED  
(B) COMMUNICATIONS - NEC  
(C) COMMUNICATIONS - SEGRA  
(D) POWER - SANDHILLS  
(E) WATER - ASUS

PREPARED FOR FORT LIBERTY  
IN THE OFFICE OF:

1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - SURVEY/SUE - UTILITIES - CONSTRUCTION OBSERVATION

**PANKIL K. PATEL** UTILITY PROJECT MANAGER  
**TREVER REEVES** PROJECT UTILITY COORDINATOR

**DIVISION OF HIGHWAYS  
DIVISION 6**

558 Gillespie St., 28301  
Fayetteville, NC

**CHRISTY W. HUFF, PE** DIVISION PROJECT MANAGER  
**RICK HANDLIN** DIVISION UTILITIES ENGINEER  
**JOHN WALTERS** DIVISION UTILITY COORDINATOR

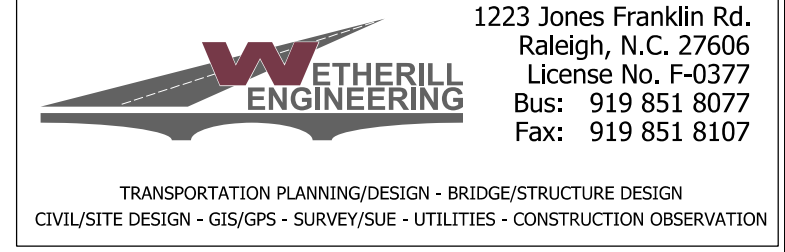
8/20/2025  
Rock\_Merritt\_Rdy\_ut\_tsh\_uo-l.psh.dgn  
USER: Treves

5/14/99

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS	PROJECT REFERENCE NO. 49218.7	SHEET NO. U0-2
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ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



# UTILITIES PLAN SHEET SYMBOLS

## PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

## PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

## PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	
Directionally Drilled Conduit	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Remove Pole	REM
Plan Note	
Pay Item Note	

## EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		
Remove Existing Pole	REM		

\*For Existing Utilities  
 Utility Line Drawn from Record (Type as Shown)   
 Designated Utility Line (Type as Shown)

8/17/99  
8/7/2025 Merritt.Rdy.ut.rdy4.u0-4.psh.dgn  
11561313

**NOTES:**

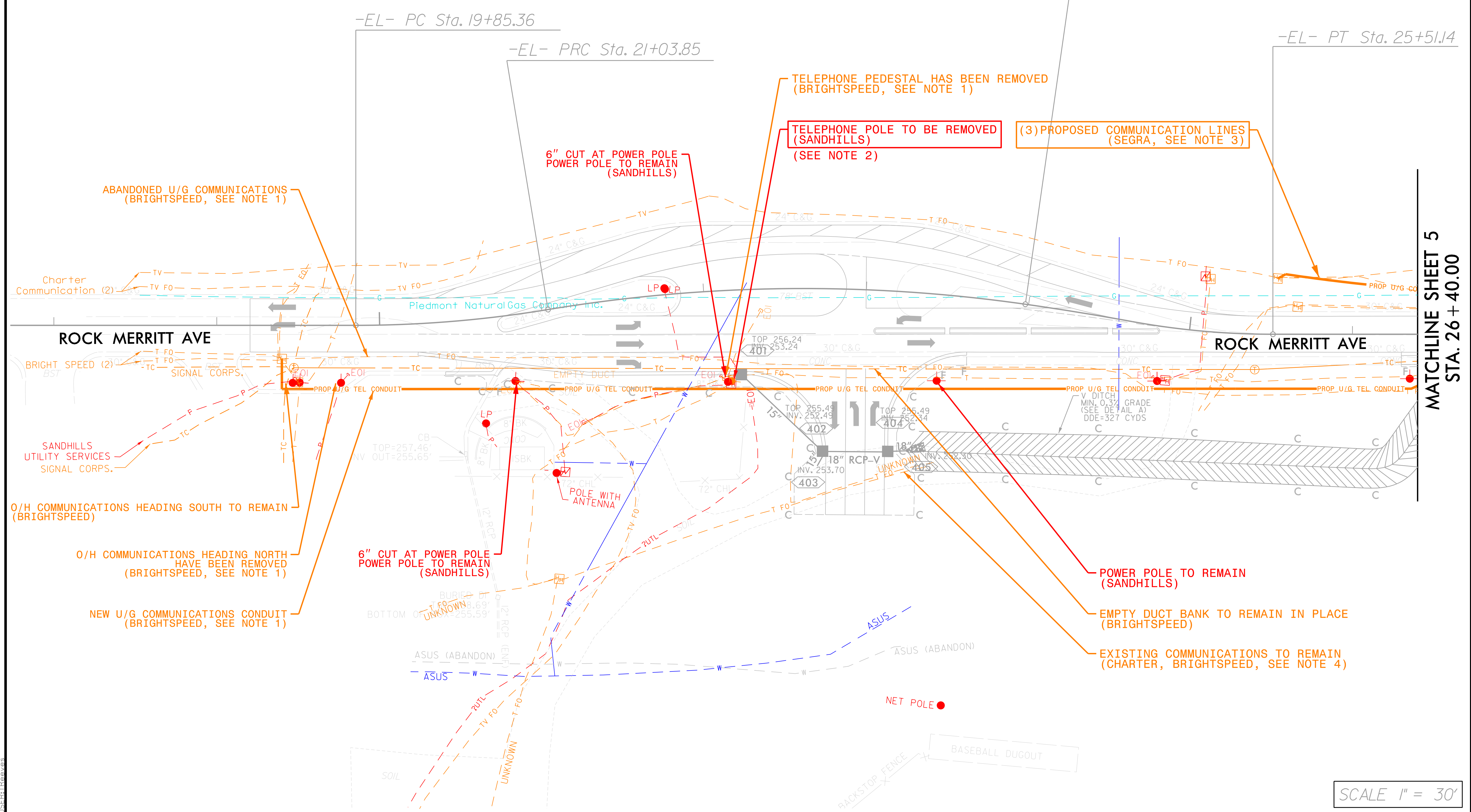
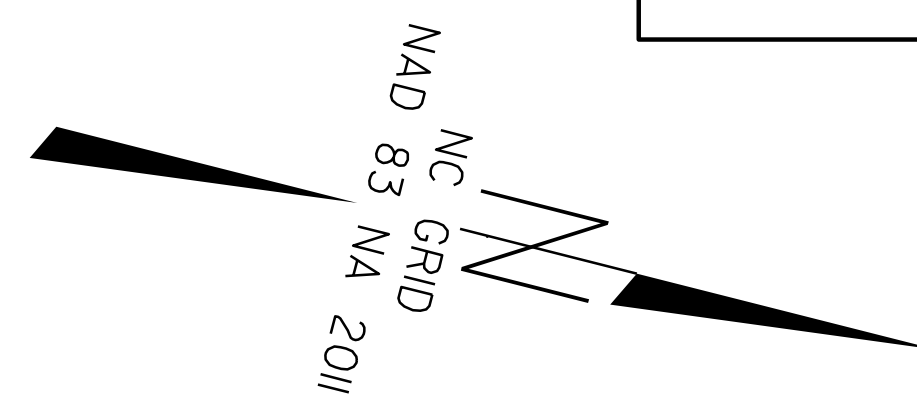
1. PER NCDOT, BRIGHTSPEED HAS RELOCATED ALL FACILITIES AS OF 12/18/2024 AND MAINTAINED A 10' DEPTH.
2. SANDHILLS TO REMOVE TELEPHONE POLE BESIDE THE POWER POLE NOW THAT BRIGHTSPEED HAS UNATTACHED.
3. SEGRA HAS RELOCATED ALL FACILITIES AS OF 7/1/2025. SEGRA INSTALLED (3) CONDUITS IN A SINGLE ALIGNMENT AT A MINIMUM 15' DEPTH BELOW EXISTING GRADE.
4. CHARTER AND BRIGHTSPEED COMMUNICATIONS CABLES WERE INSTALLED TEMPORARILY FOR THE PAST MLB BASEBALL GAME. NCDOT TO COORDINATE WITH THE CONTRACTOR IF THESE LINES BECOME A CONFLICT.

PROJECT REFERENCE NO.	SHEET NO.
49218.7	U0-4
THIS SHEET CORRESPONDS TO RDY-4	

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

**WETHERILL ENGINEERING**  
1223 Jones Franklin Rd.  
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - SURVEY/SUE - UTILITIES - CONSTRUCTION OBSERVATION



**MATCHLINE SHEET 5**  
**STA. 26+40.00**

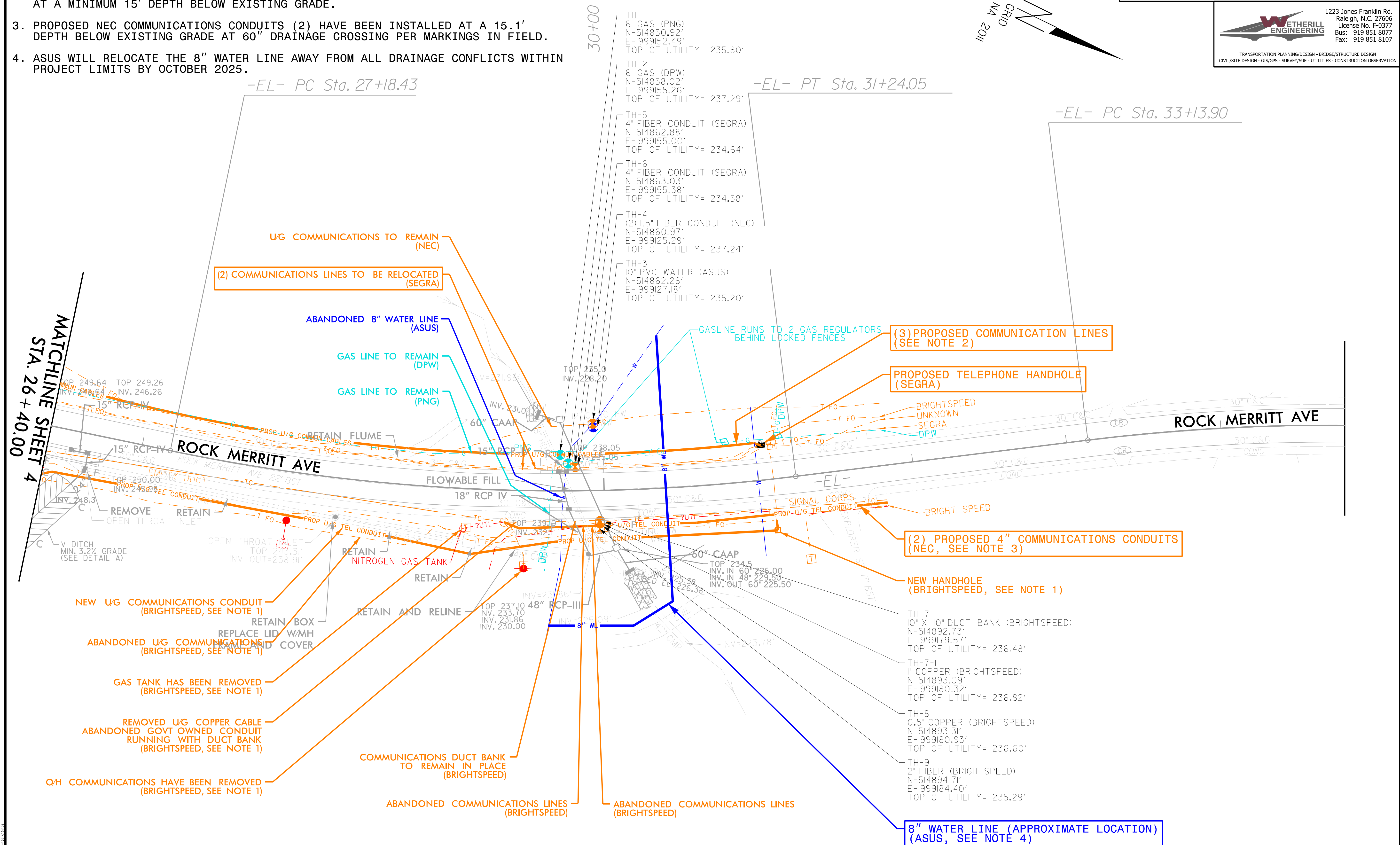
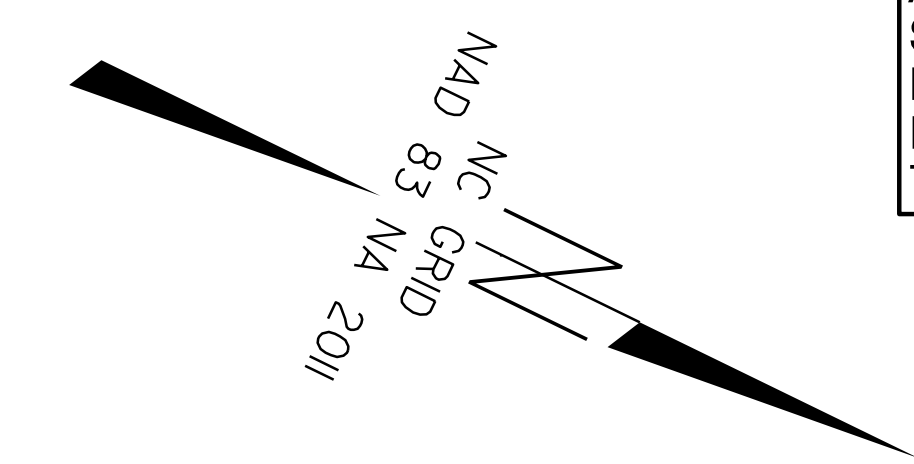
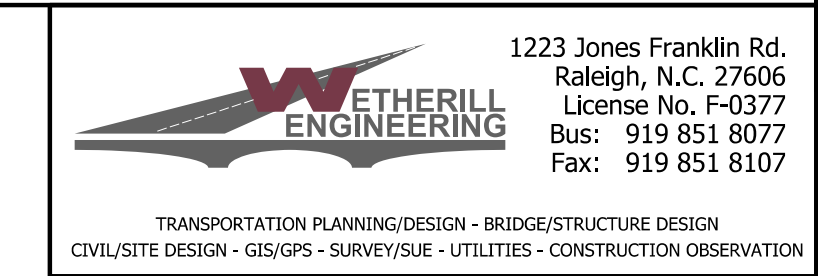
SCALE 1" = 30'

**NOTES:**

- BRIGHTSPEED HAS RELOCATED ALL FACILITIES AS OF 12/18/2024 AND MAINTAINED A MINIMUM 10' DEPTH AT ALL DRAINAGE OR STREAM CROSSINGS. BRIGHTSPEED INSTALLED THE NEW FIBER A MINIMUM OF 6' BELOW THE PROPOSED 60" DRAINAGE PIPE.
- SEGRA HAS RELOCATED ALL FACILITIES AS OF 7/1/2025. SEGRA INSTALLED (3) CONDUITS IN A SINGLE ALIGNMENT AT A MINIMUM 15' DEPTH BELOW EXISTING GRADE.
- PROPOSED NEC COMMUNICATIONS CONDUITS (2) HAVE BEEN INSTALLED AT A 15.1' DEPTH BELOW EXISTING GRADE AT 60" DRAINAGE CROSSING PER MARKINGS IN FIELD.
- ASUS WILL RELOCATE THE 8" WATER LINE AWAY FROM ALL DRAINAGE CONFLICTS WITHIN PROJECT LIMITS BY OCTOBER 2025.

PROJECT REFERENCE NO.	SHEET NO.
49218.7	UO-5
THIS SHEET CORRESPONDS TO RDY-5	

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



SCALE 1" = 30'

8/17/99  
8/20/2025  
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JSE

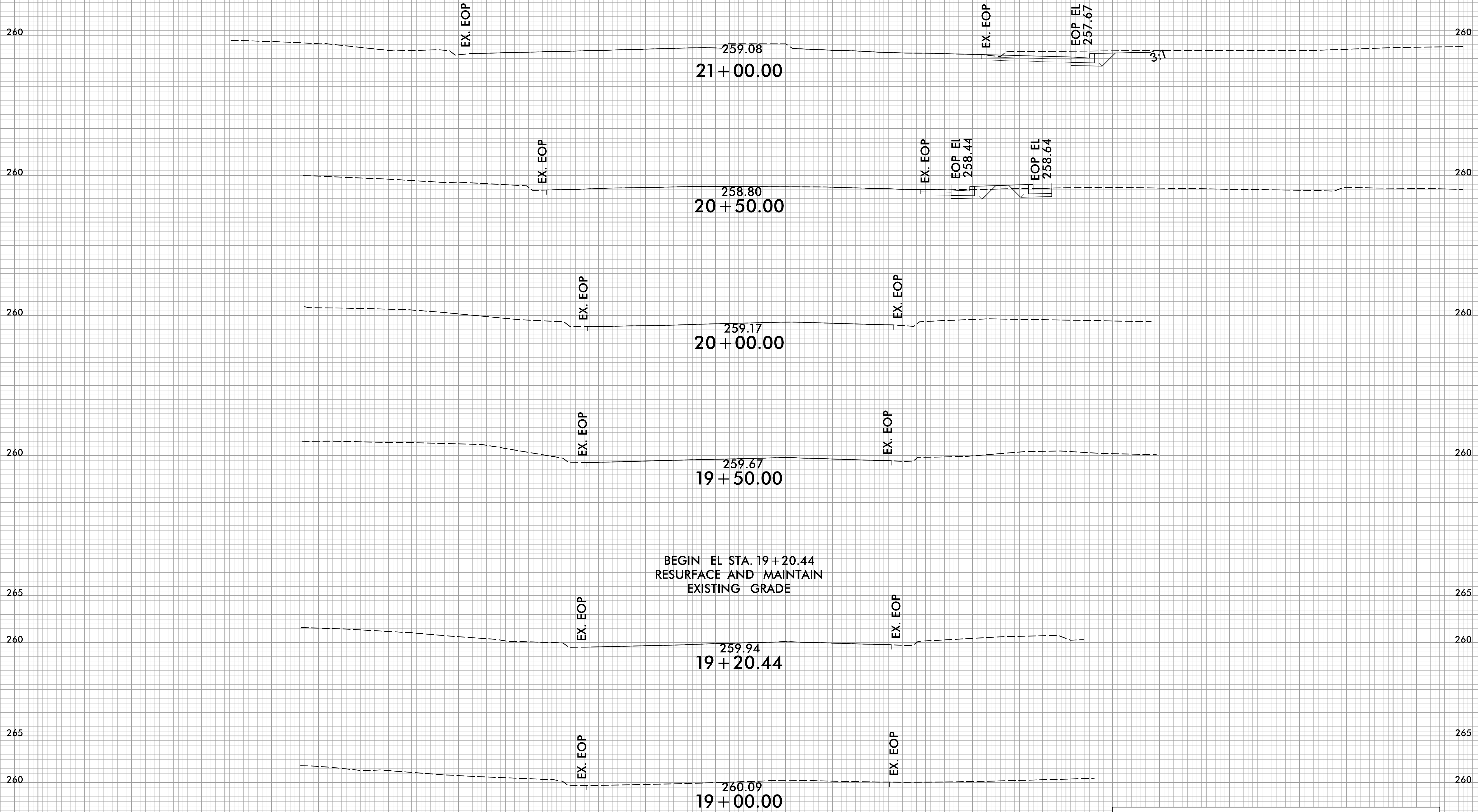
8/23/99



PROJ. REFERENCE NO.  
49218.7

SHEET NO.  
X-1

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BEGIN EL STA. 19+20.44  
RESURFACE AND MAINTAIN  
EXISTING GRADE

**ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.**

-EL-

1/2/2025  
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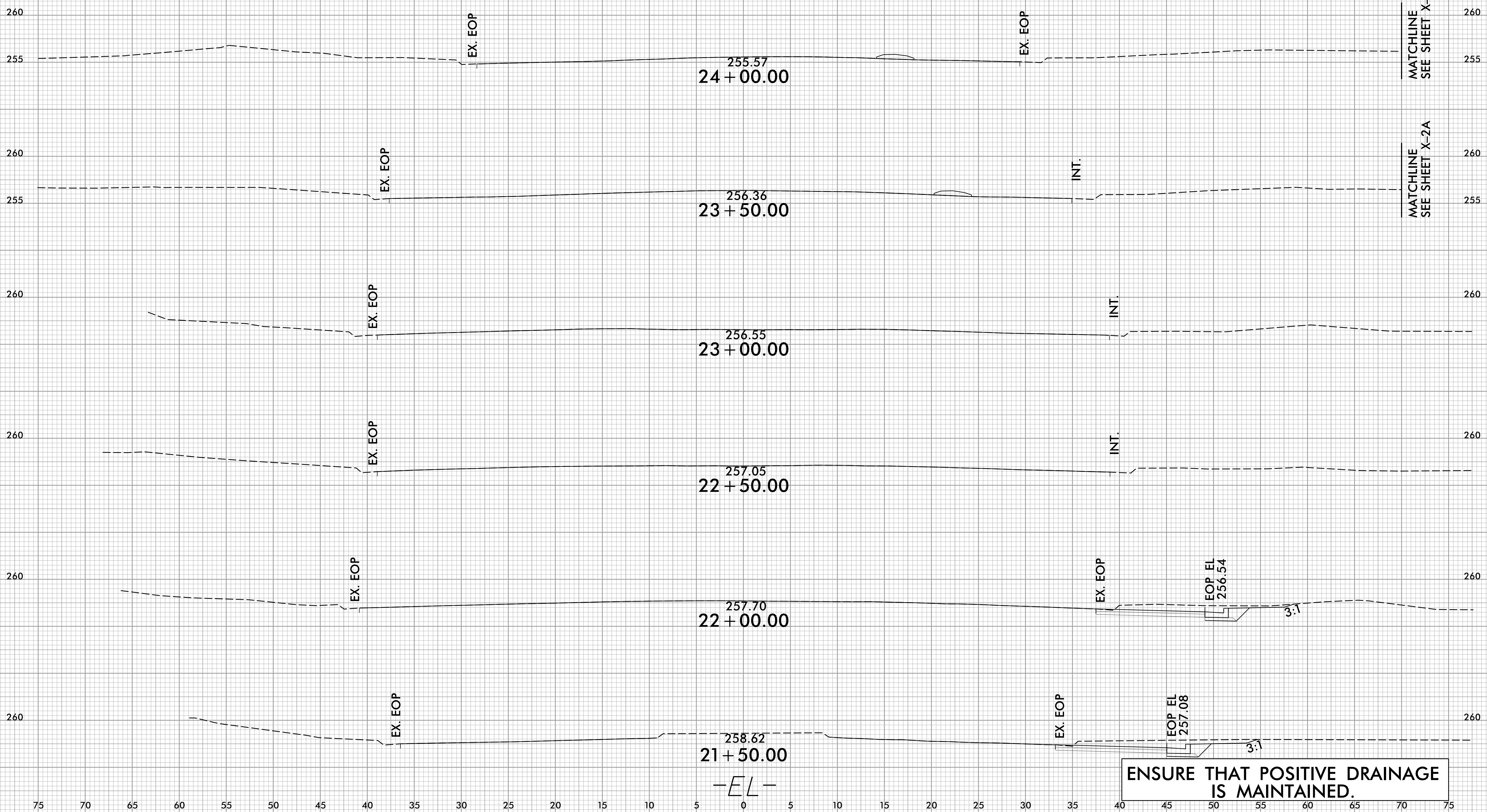
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8/23/99



PROJ. REFERENCE NO. 49218.7	SHEET NO. X-2
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

2/1/2025  
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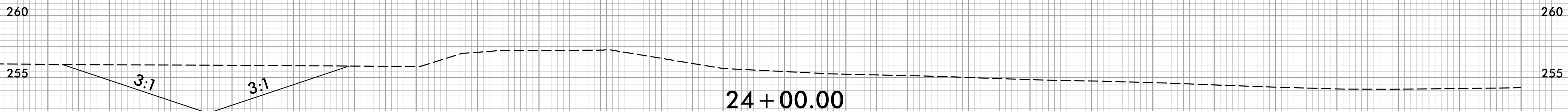
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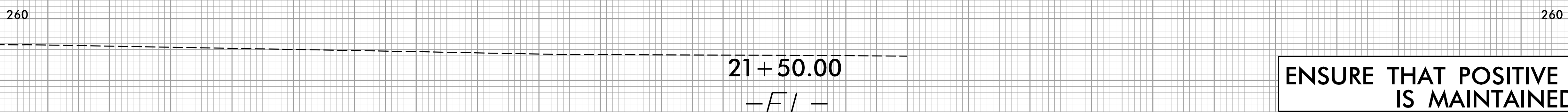
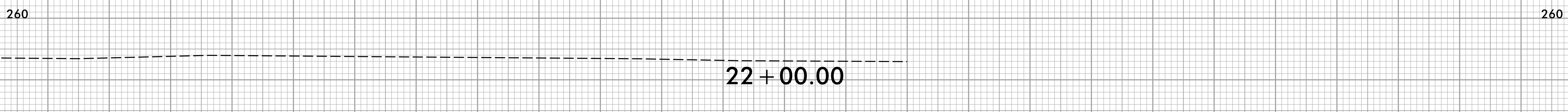
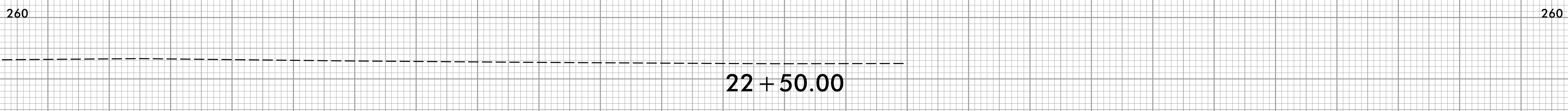
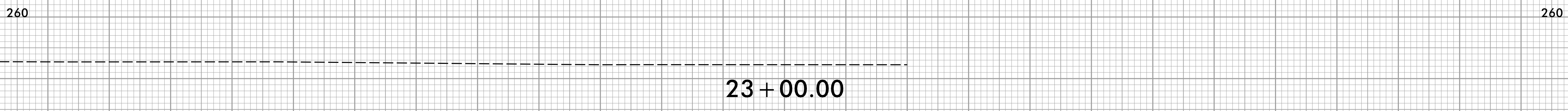
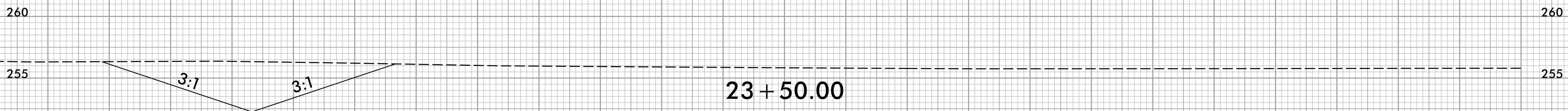
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49218.7	X-2A

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MATCHLINE  
SEE SHEET X-2



MATCHLINE  
SEE SHEET X-2



-E.L.-

**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

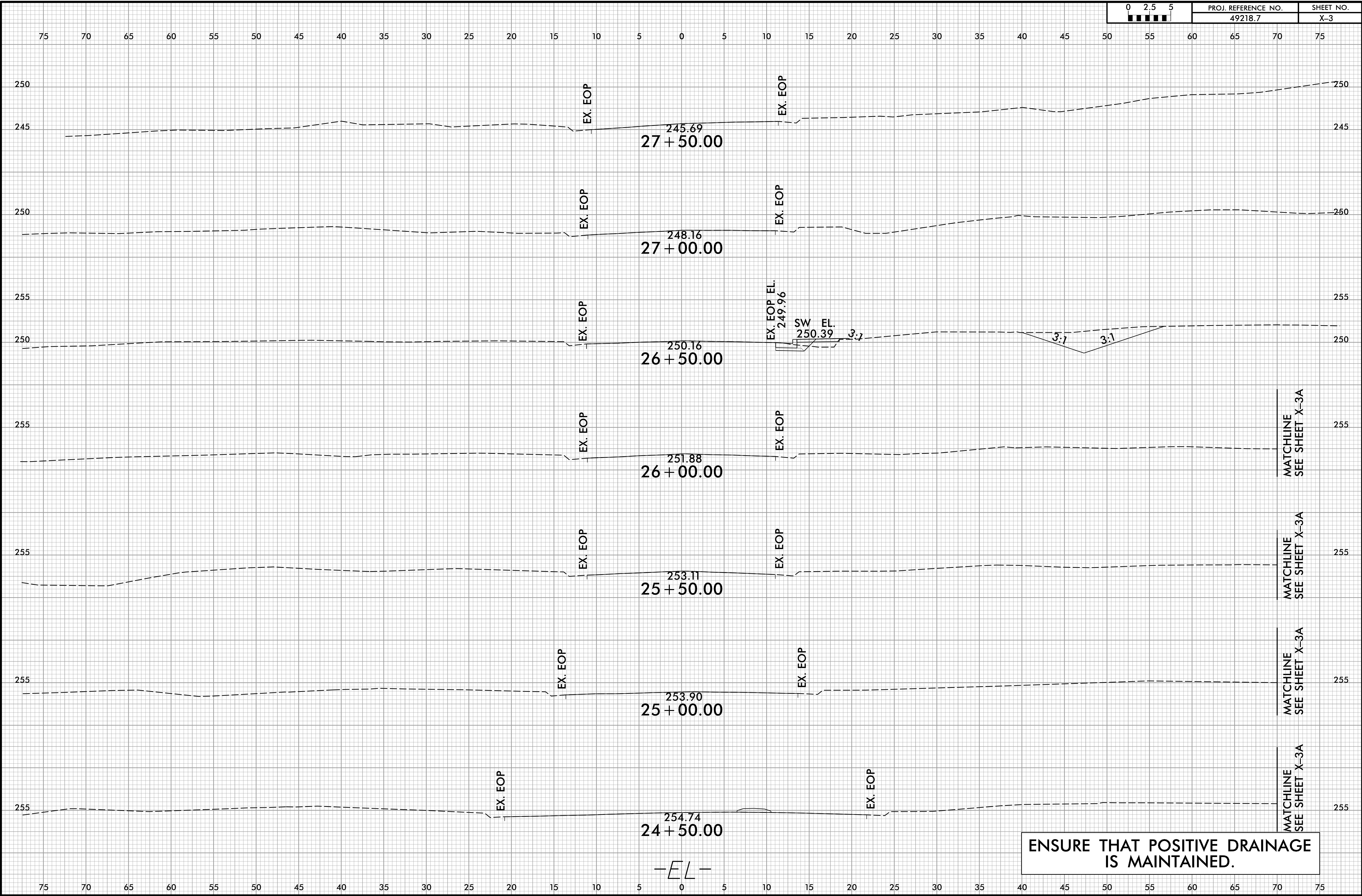
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8/23/99



PROJ. REFERENCE NO. 49218.7	SHEET NO. X-3
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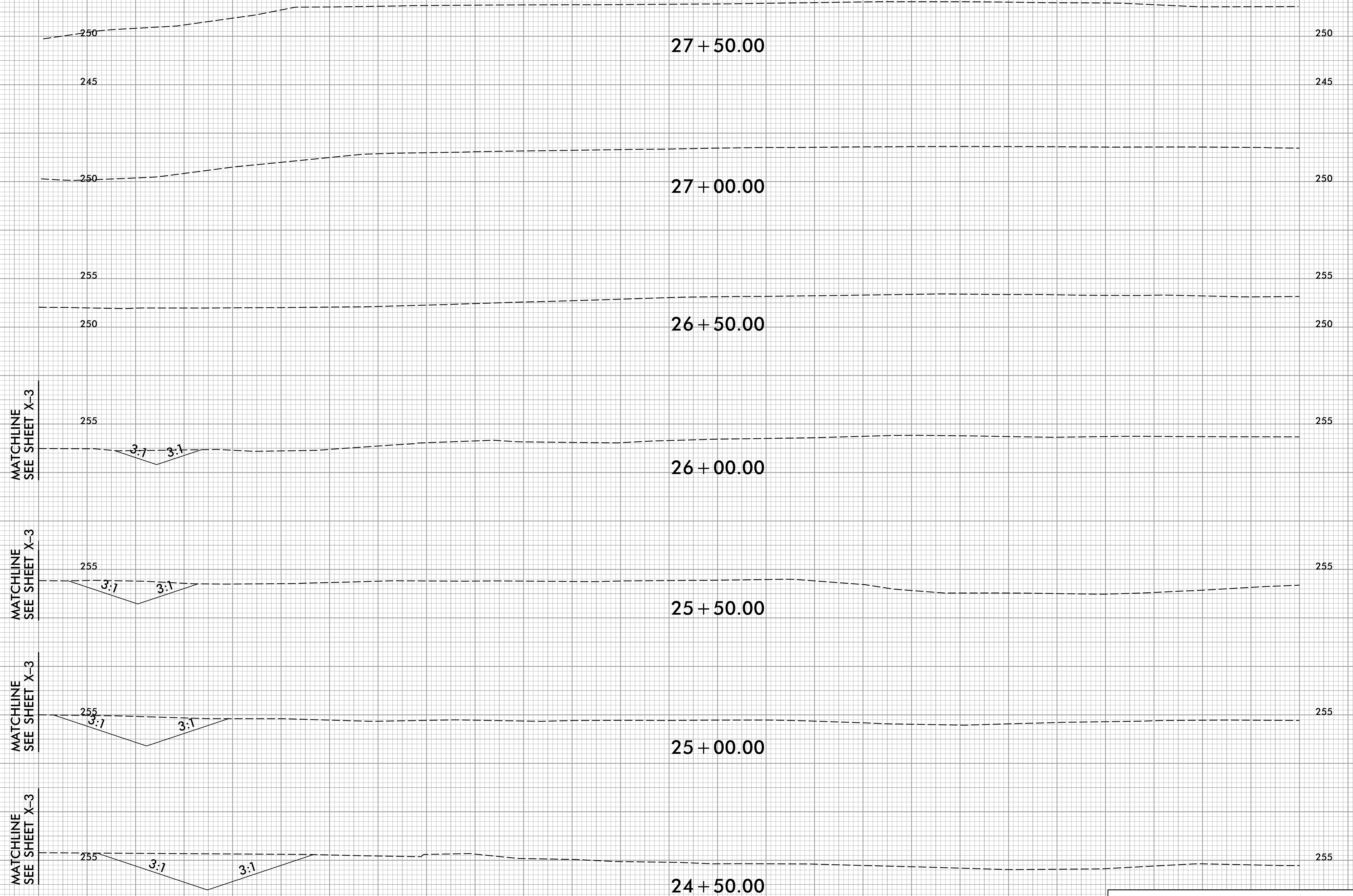
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-3A

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-EL-

**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

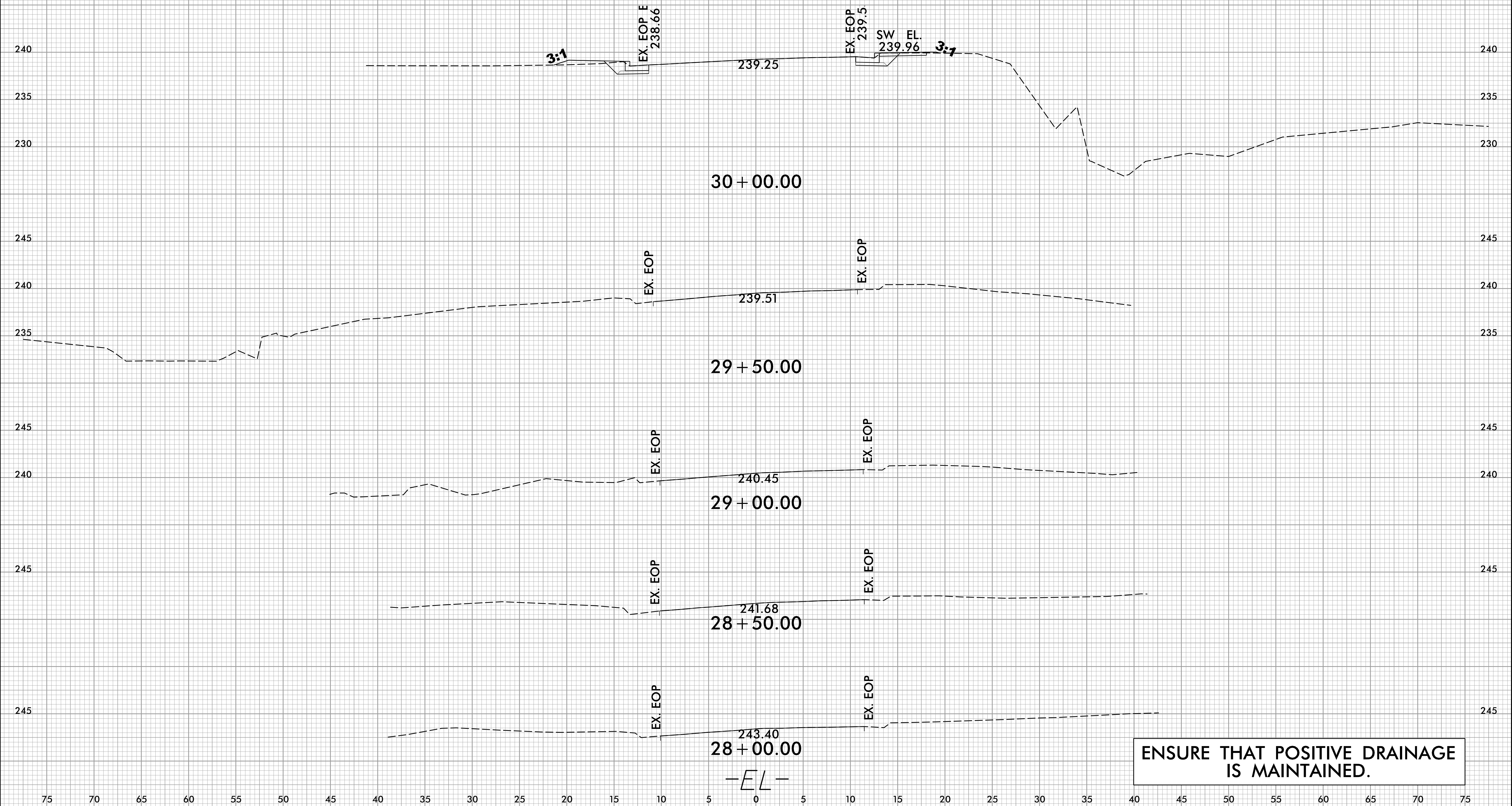
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8/23/99



PROJ. REFERENCE NO. 49218.7	SHEET NO. X-4
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-EL-

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

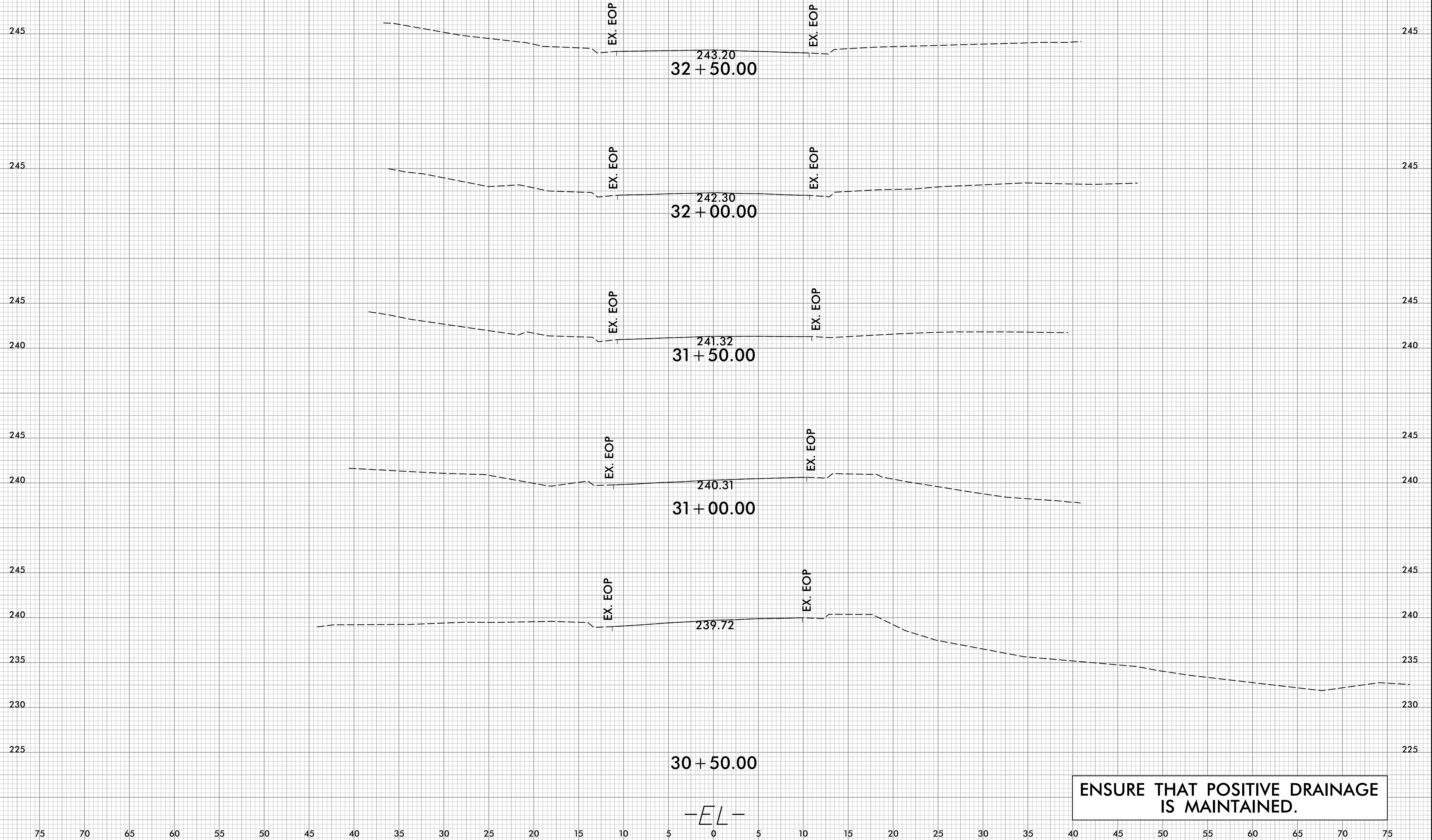
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-5

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-EL-

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

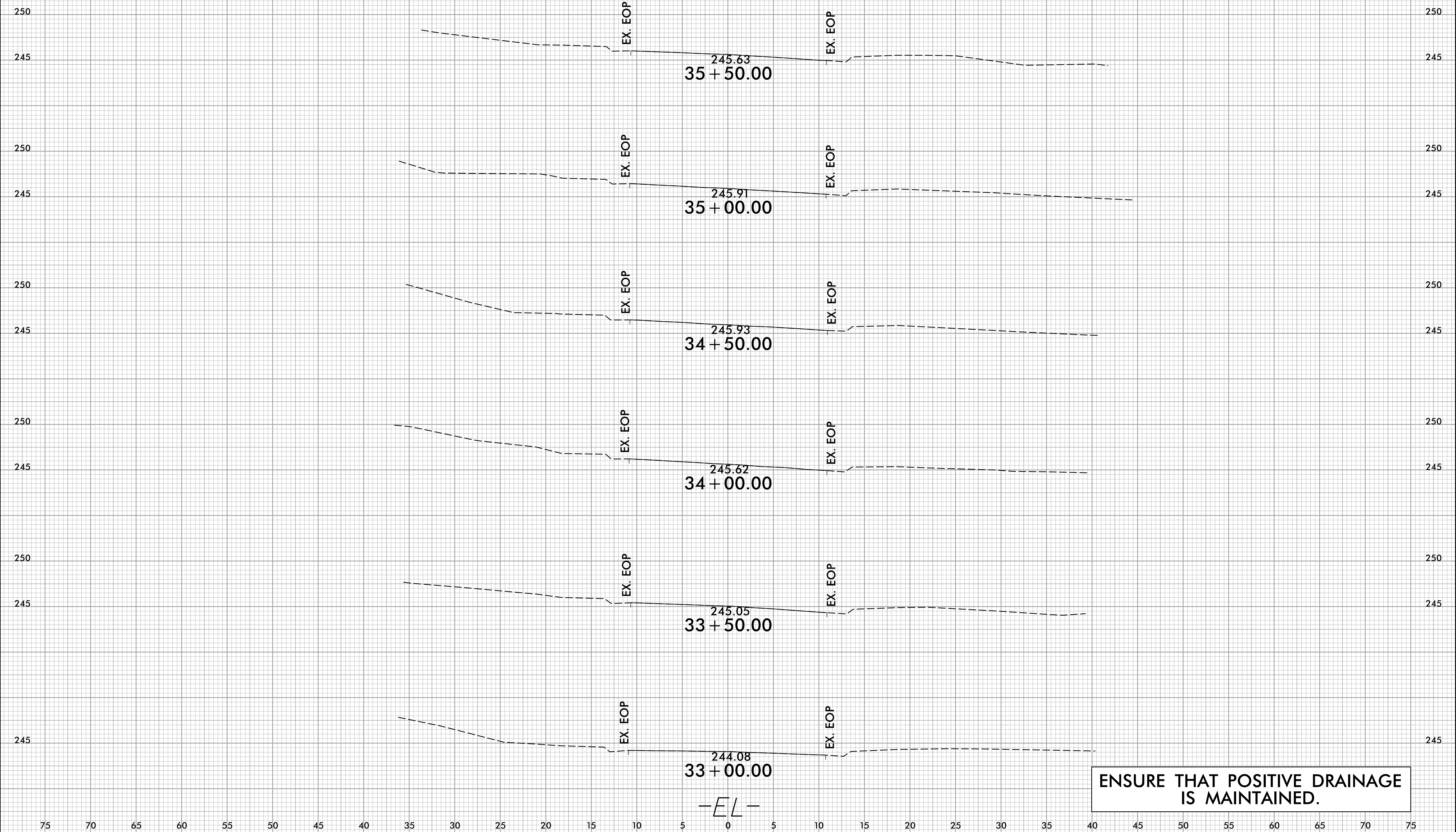
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-6

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-EL-

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

6/3/2024  
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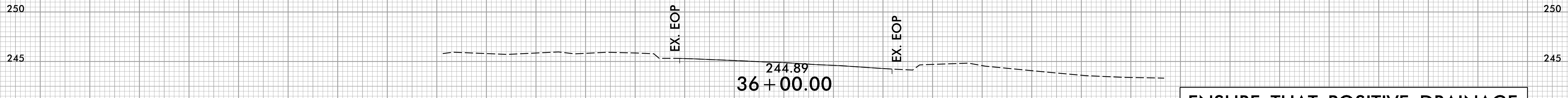
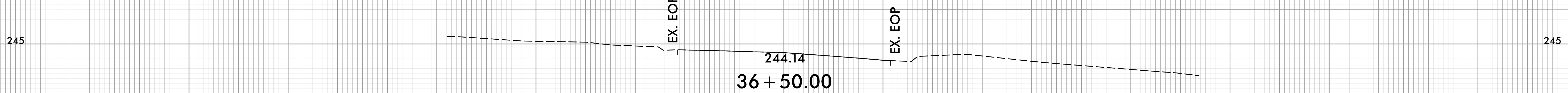
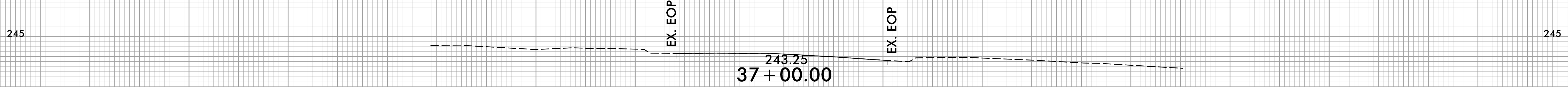
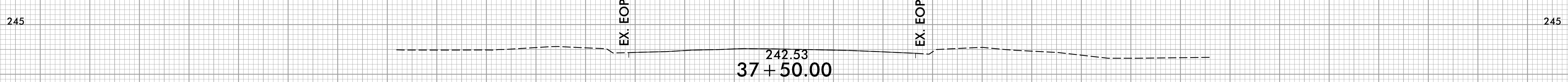
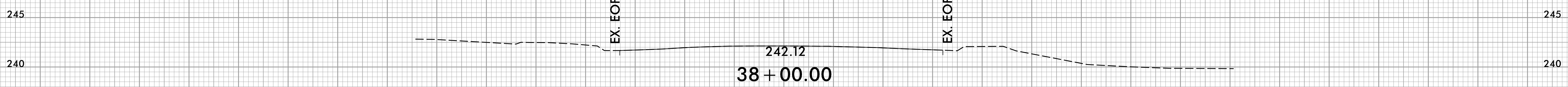
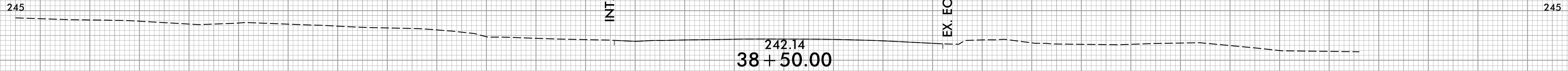
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PROJ. REFERENCE NO.  
49218.7

SHEET NO.  
X-7

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-EL-

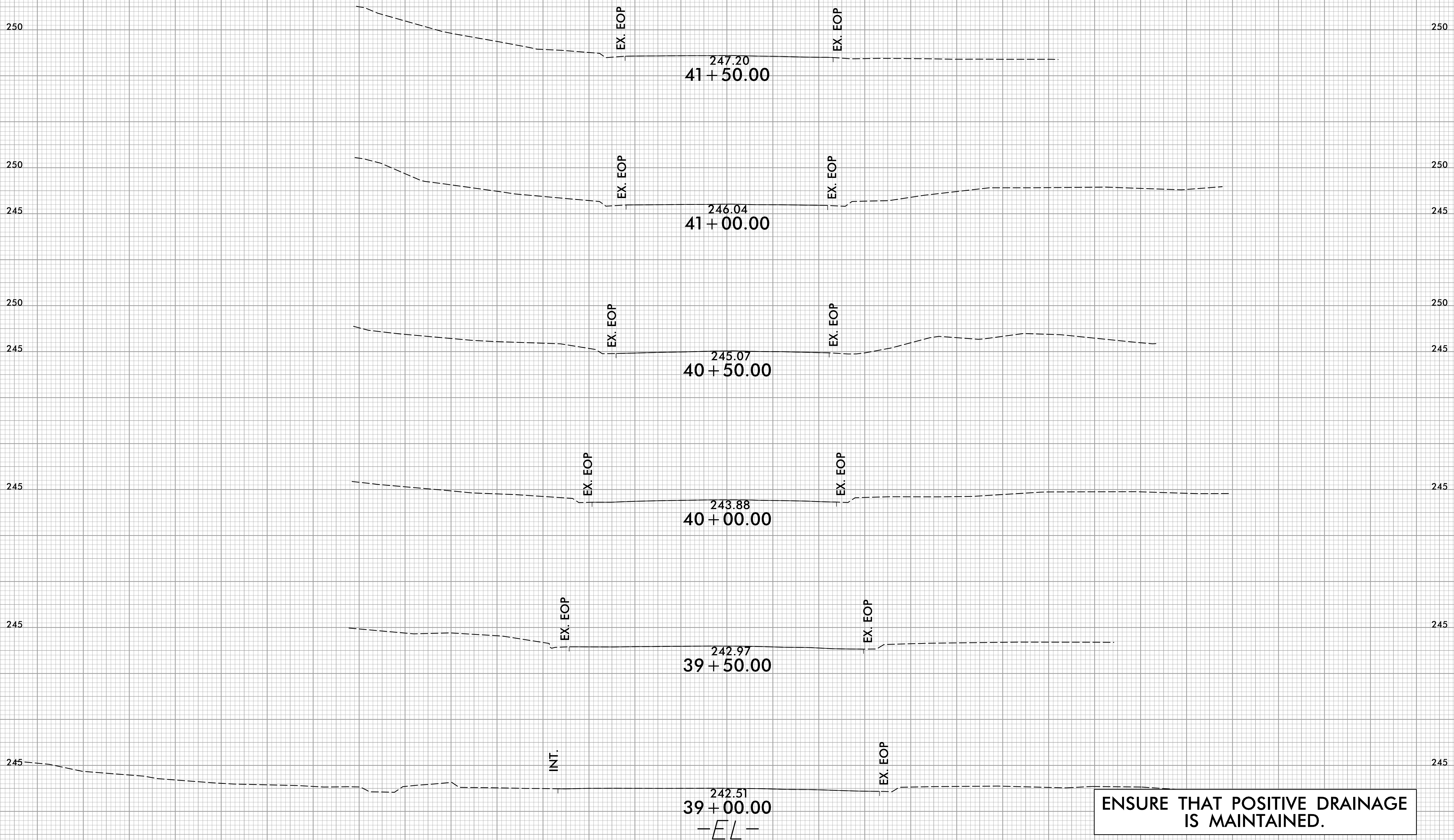
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6/3/2024  
TJ:EL:skv:med

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



EX. EOP

EX. EOP

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EX. EOP

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EX. EOP

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

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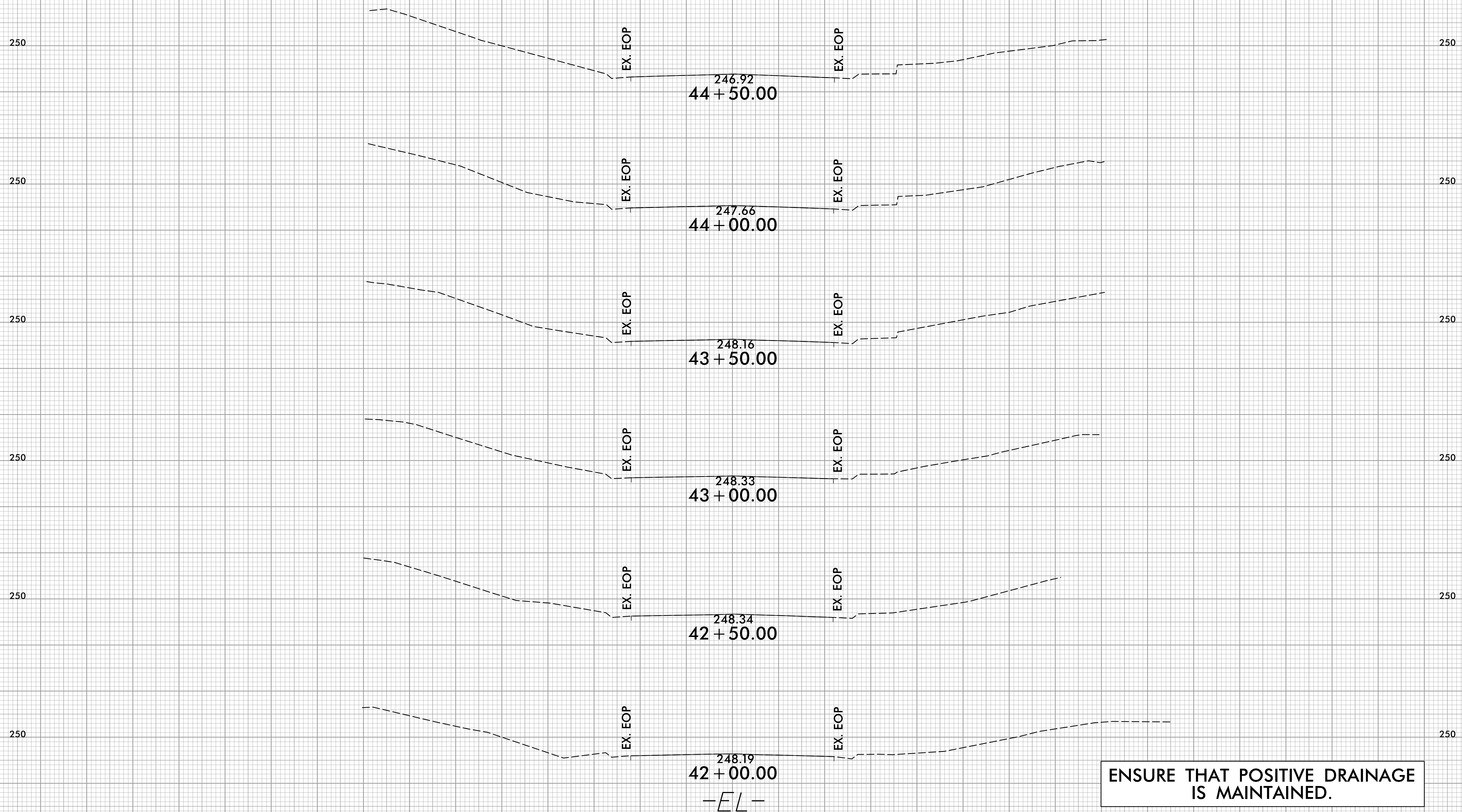
8/23/99



PROJ. REFERENCE NO.  
49218.7

SHEET NO.  
X-9

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-EL-

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

6/3/2024  
TJ:EL:KRM

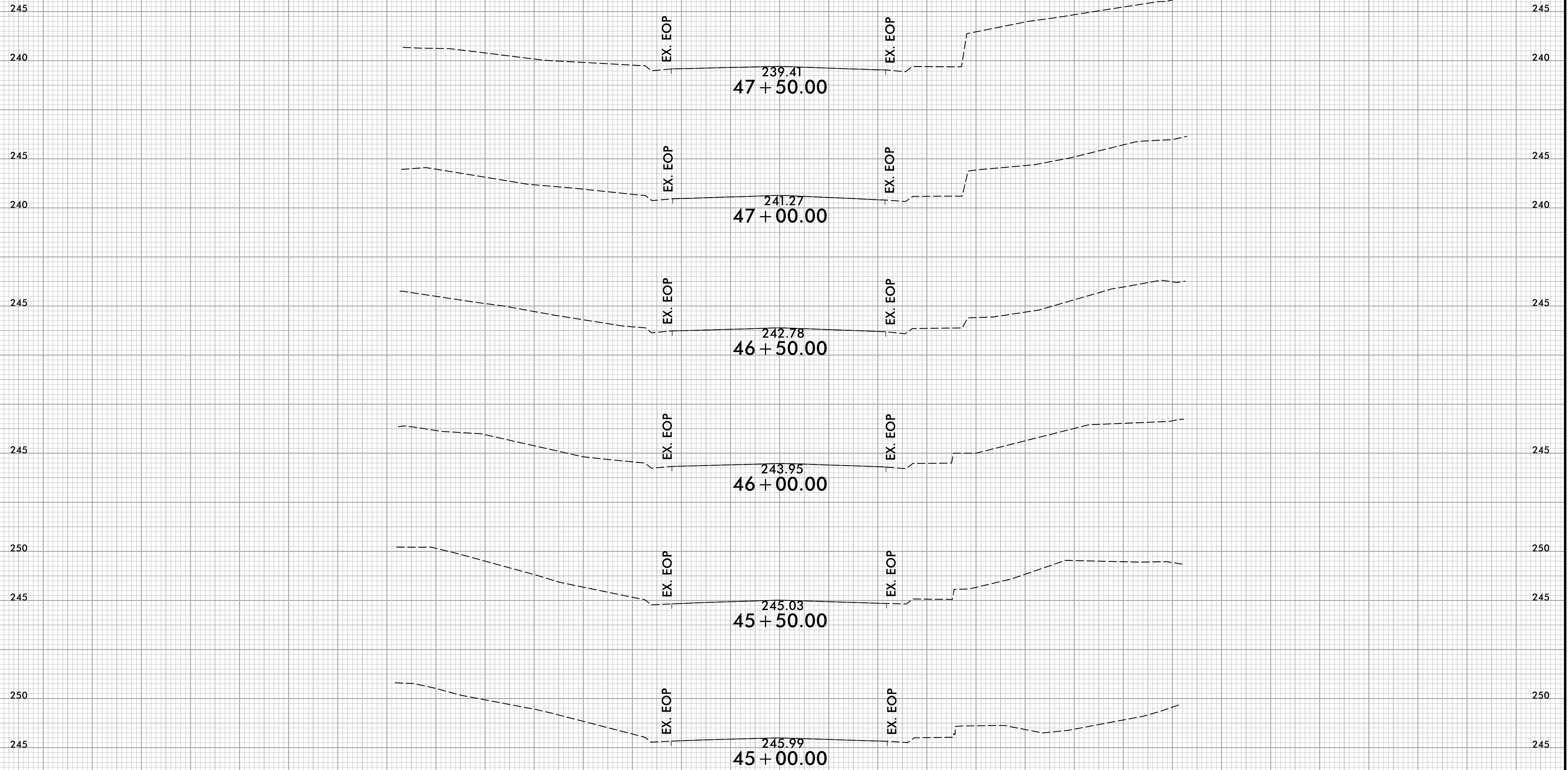
8/23/99



PROJ. REFERENCE NO.  
49218.7

SHEET NO.  
X-10

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-EL-

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

6/3/2024  
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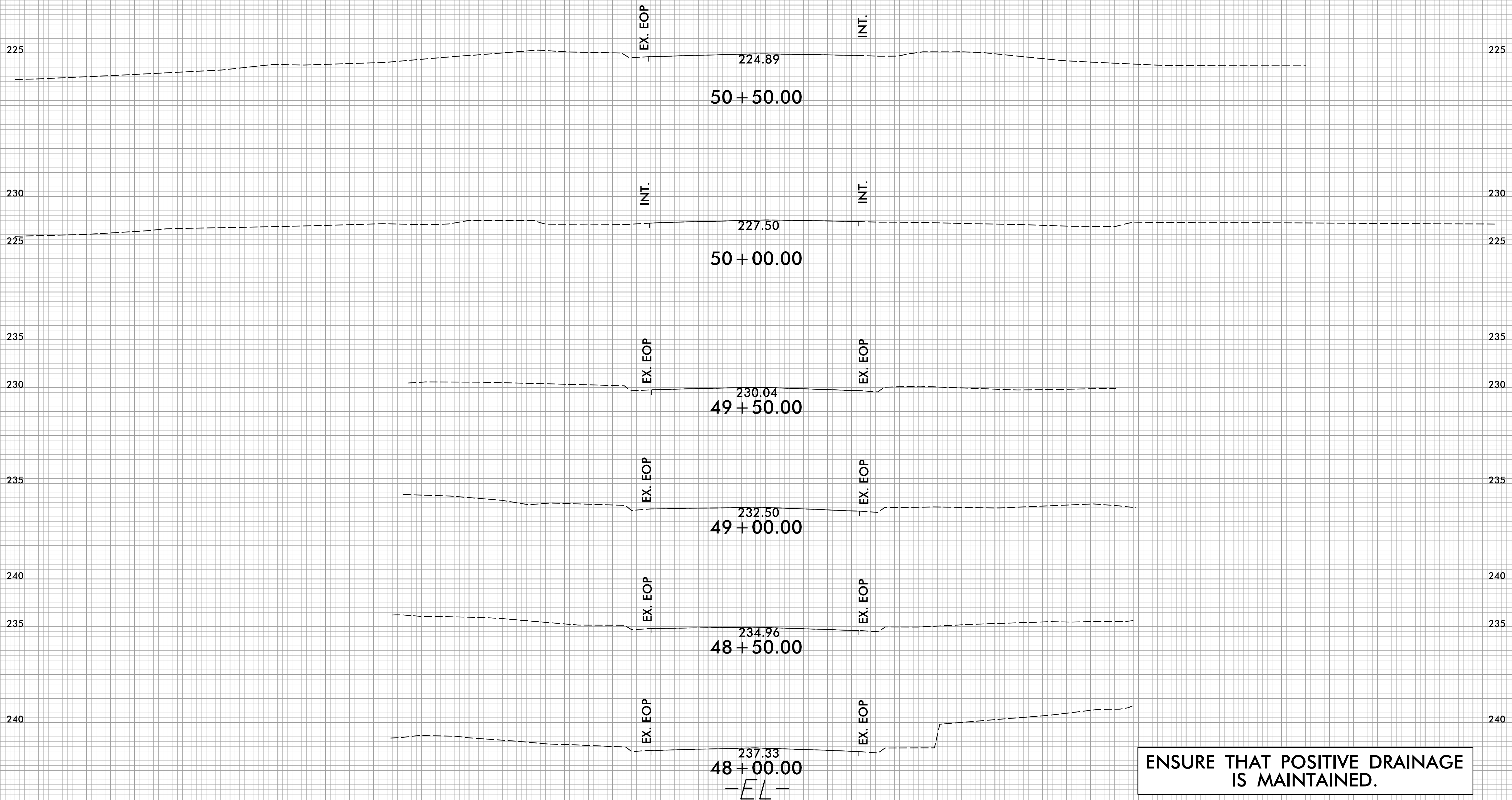
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-11

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**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

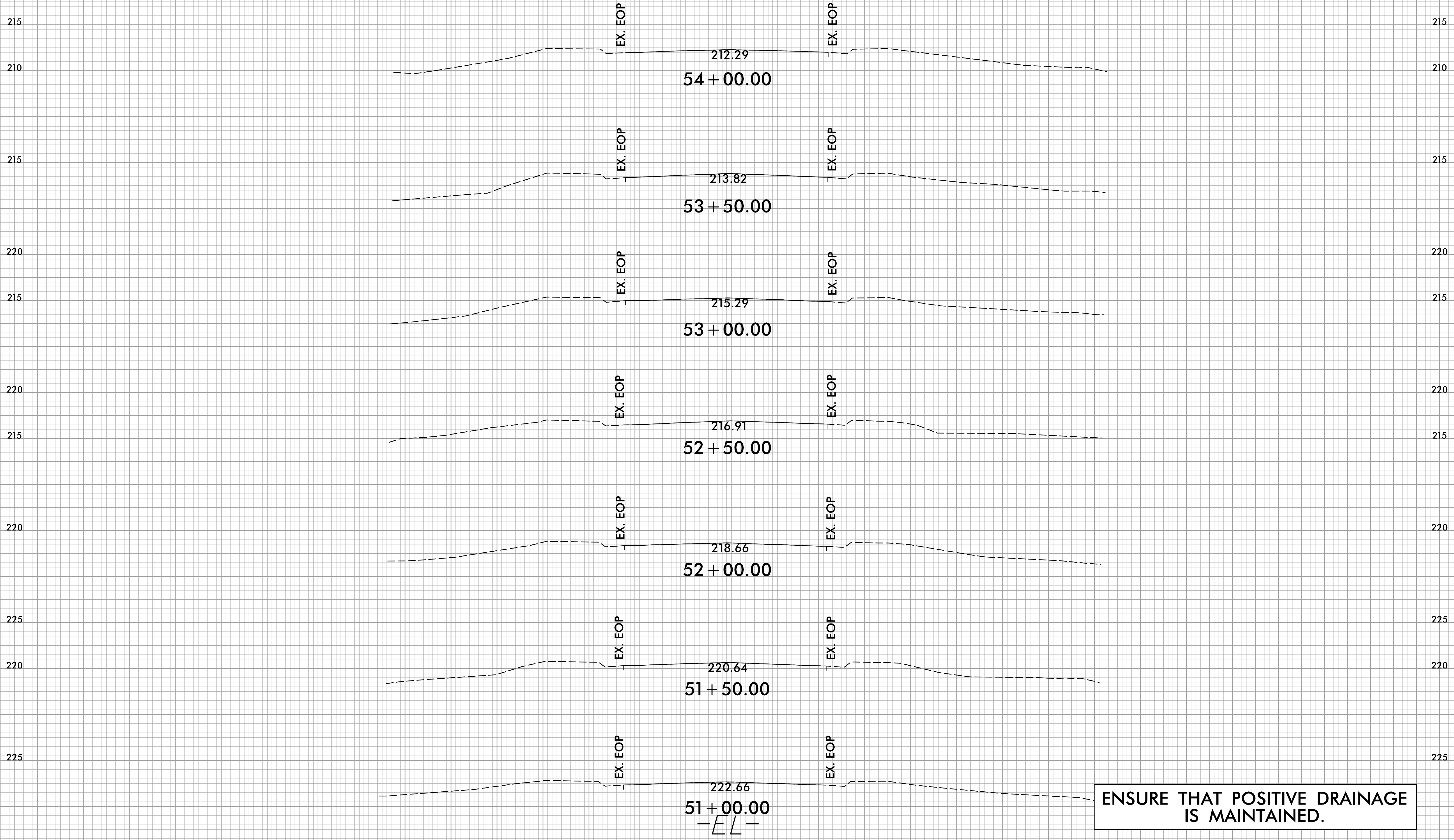
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-12

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**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

6/3/2024  
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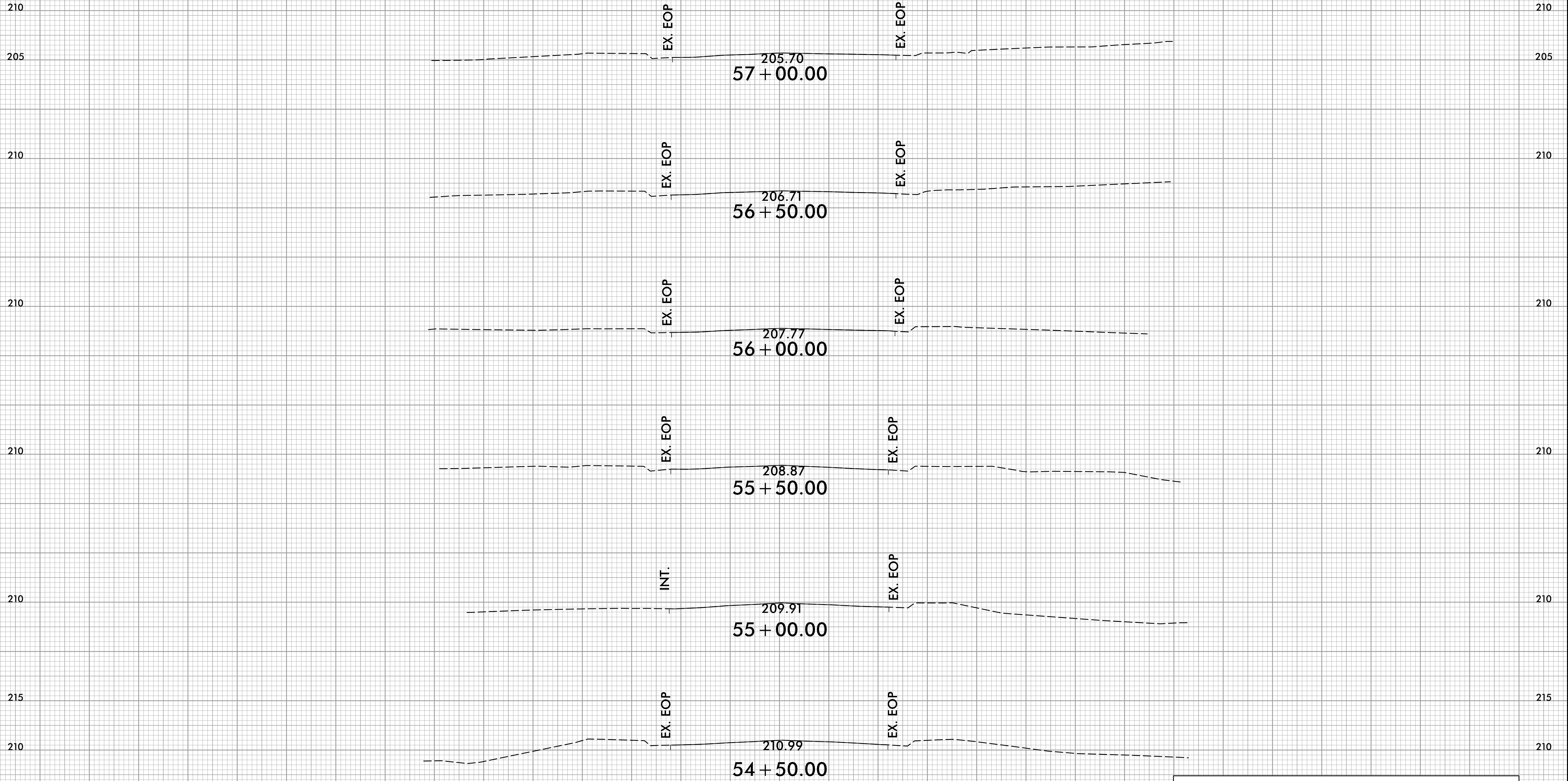
8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-13

PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-13

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-EL-

**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

6/3/2024  
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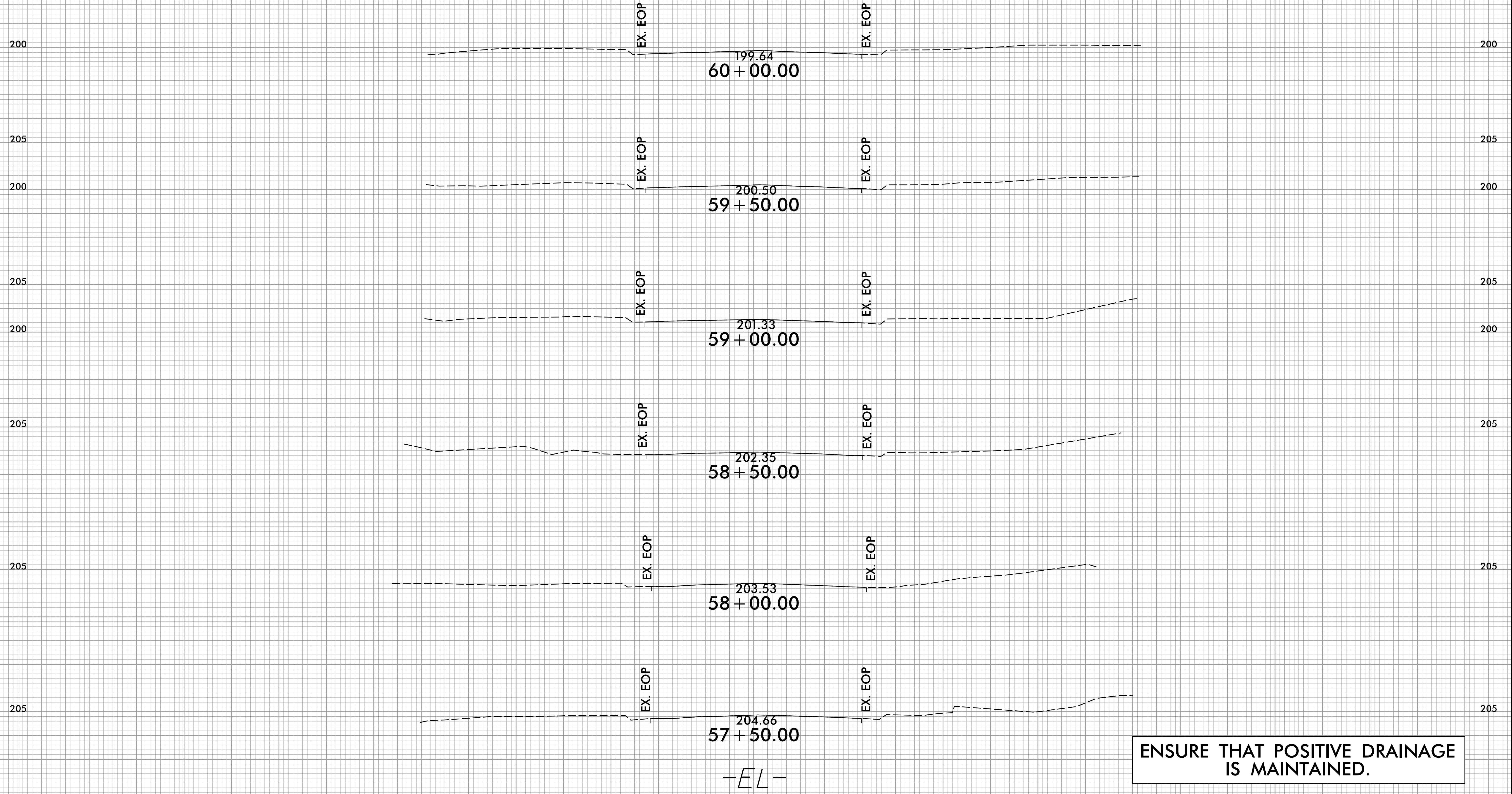
8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-14

PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-14

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



-E L-

**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

6/3/2024  
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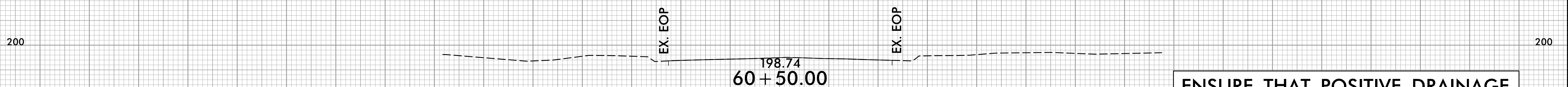
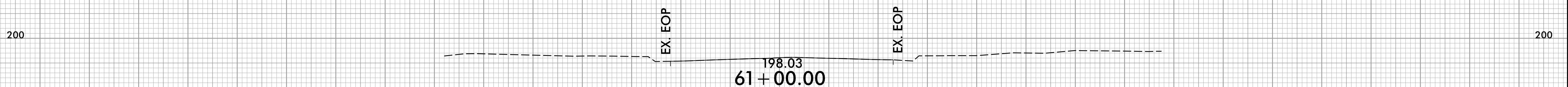
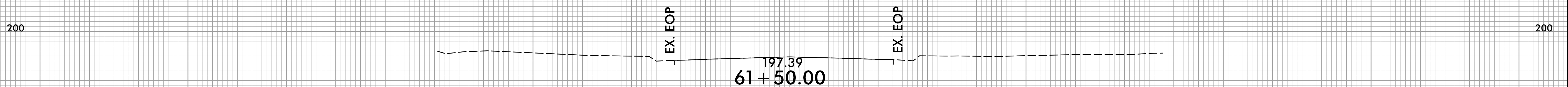
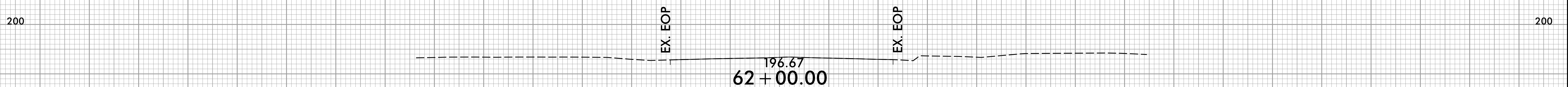
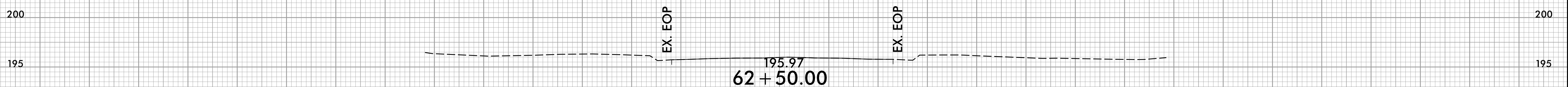
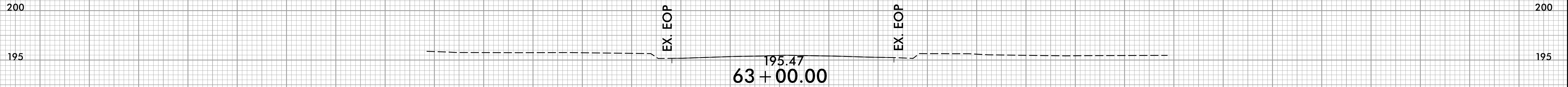
8/23/99



PROJ. REFERENCE NO.  
49218.7

SHEET NO.  
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-EL-

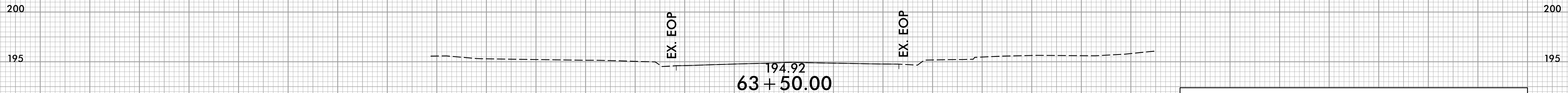
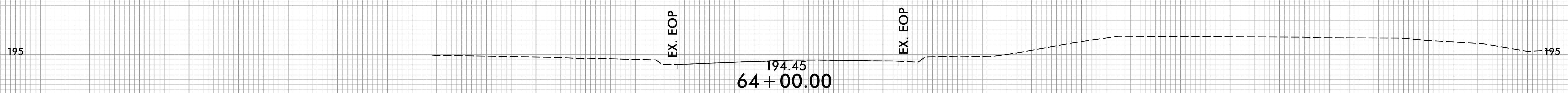
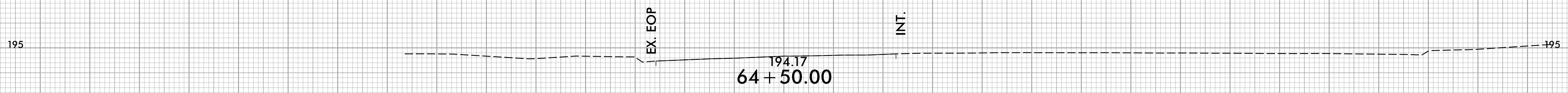
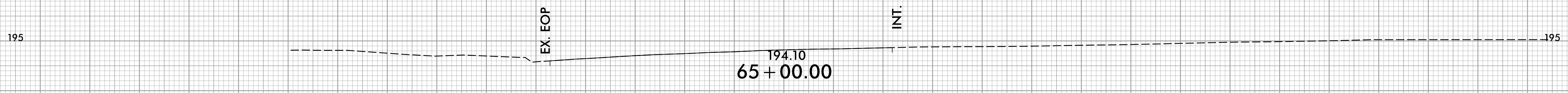
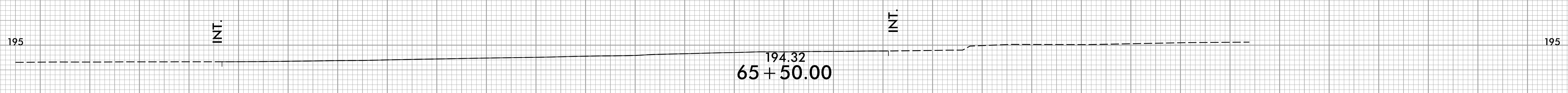
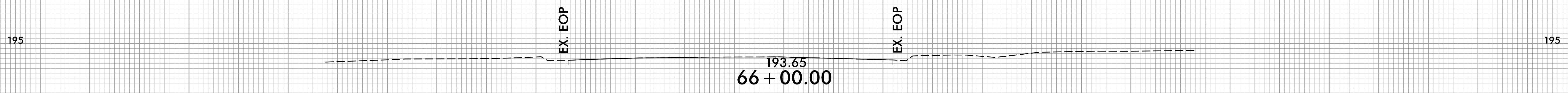
ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

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6/3/2024  
J:\E\3\kenecol



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



-EL-

ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75





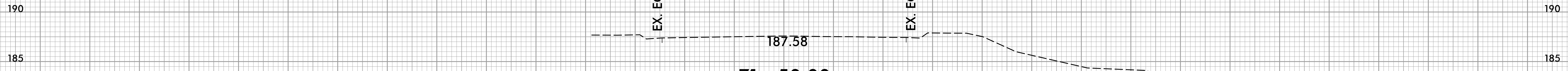
8/23/99



PROJ. REFERENCE NO.
49218.7

SHEET NO.
X-19

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-EL-

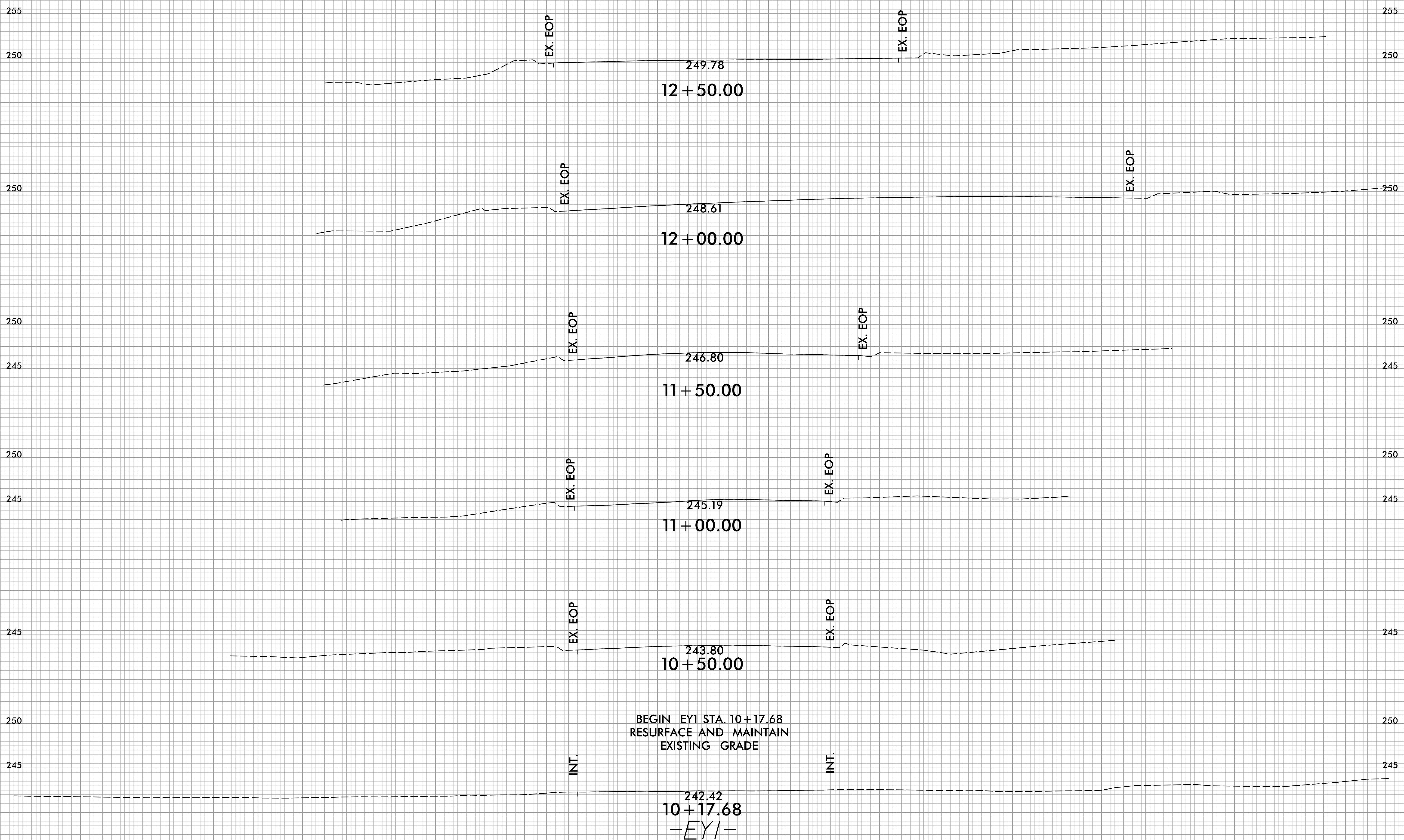
**ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED.**

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6/3/2024  
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 J:\E\13\kenedj



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75





75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

END EY1 STA. 13 + 13.81  
RESURFACE AND MAINTAIN  
EXISTING GRADE

EX. EOP

EX. EOP

252.71  
13 + 13.81

EX. EOP

EX. EOP

252.00  
13 + 00.00

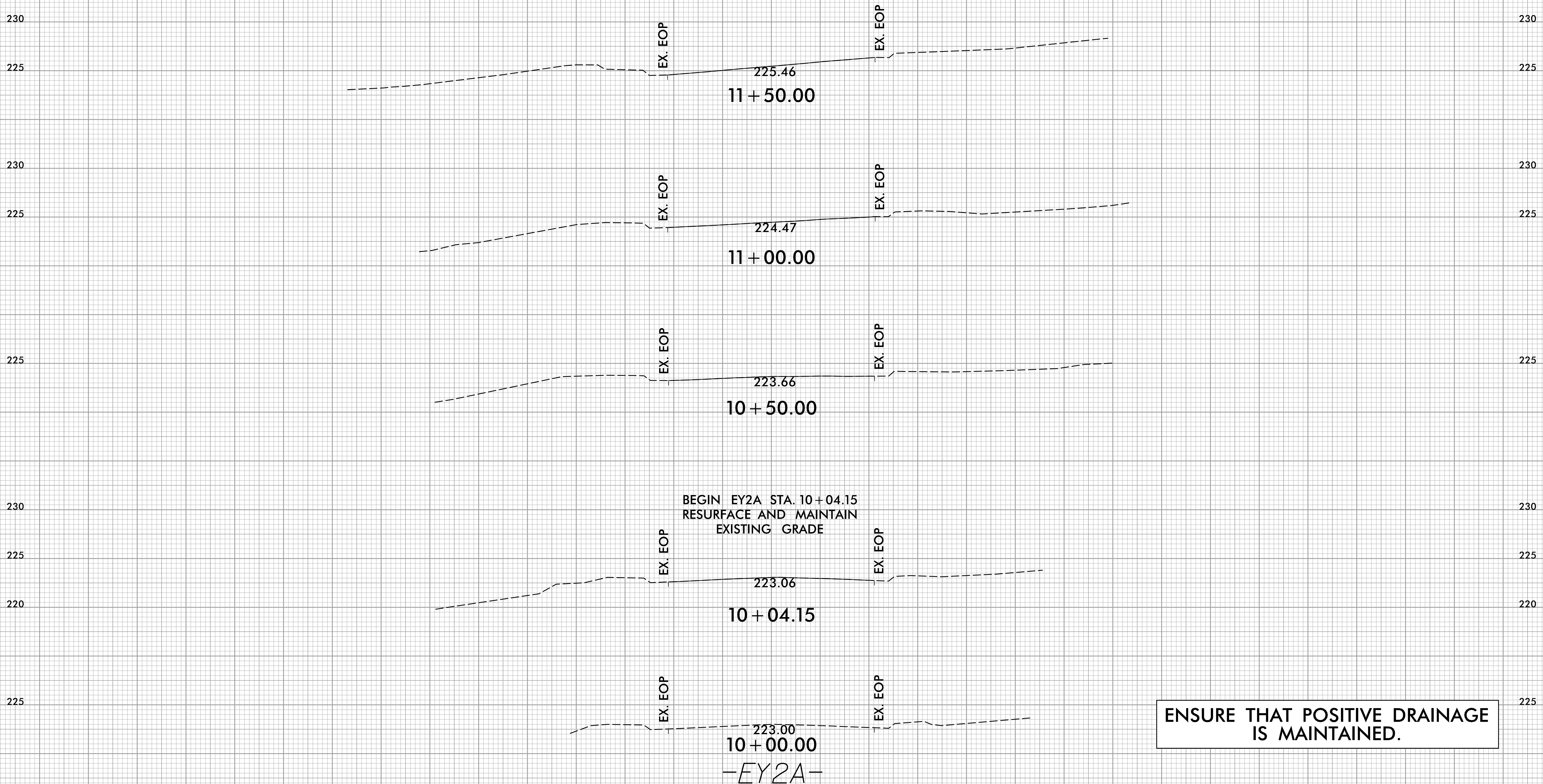
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ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



BEGIN EY2A STA. 10 + 04.15  
RESURFACE AND MAINTAIN  
EXISTING GRADE

-EY2A-

ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

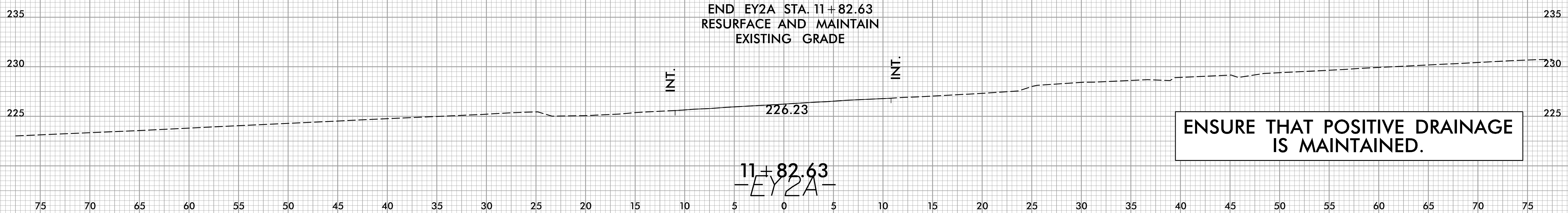
8/23/99



PROJ. REFERENCE NO.	SHEET NO.
49218.7	X-23

SHEET NO.
X-23

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



6/3/2024  
J:\EY2A\_RDY\_XPL.dgn  
J:\EY2A\_RDY\_XPL.dgn



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

END EY2B STA. 10+82.39  
RESURFACE AND MAINTAIN  
EXISTING GRADE

EX. EOP

EX. EOP

226.58

10+82.39

EX. EOP

EX. EOP

226.30

10+50.00

BEGIN EY2B STA. 10+06.88  
RESURFACE AND MAINTAIN  
EXISTING GRADE

EX. EOP

EX. EOP

226.39

10+06.88

EX. EOP

EX. EOP

226.44

10+00.00

-EY2B-

ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

END EY3 STA. 11+88.13  
RESURFACE AND MAINTAIN  
EXISTING GRADE

EX. EOT  
194.31  
11+88.13

EX. EOT  
194.48  
11+50.00

BEGIN EY3 STA. 11+22.22  
RESURFACE AND MAINTAIN  
EXISTING GRADE

EX. EOP  
194.51  
11+22.22

EX. EOP  
194.79  
11+00.00

-EY3-

ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.

8/23/99



PROJ. REFERENCE NO.  
49218.7

SHEET NO.  
X-26

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

END EY4 STA. 11+39.37  
RESURFACE AND MAINTAIN  
EXISTING GRADE

193.37  
11+39.37

193.28  
11+00.00

193.53  
10+50.00

BEGIN EY4 STA. 10+11.32  
RESURFACE AND MAINTAIN  
EXISTING GRADE

193.43  
10+11.32

10+00.00

-EY4-

ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.

6/3/2024  
I:\EY4\FDY\_XPL.dgn  
TJ:EF:skm

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

8/23/99

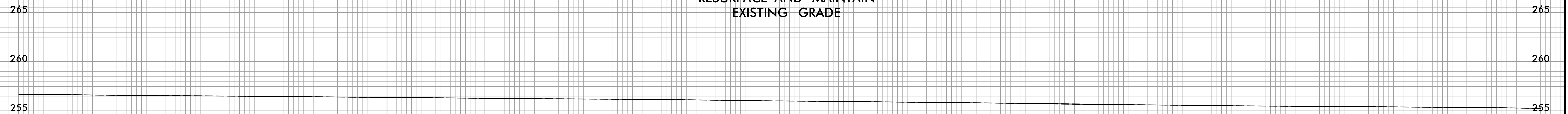


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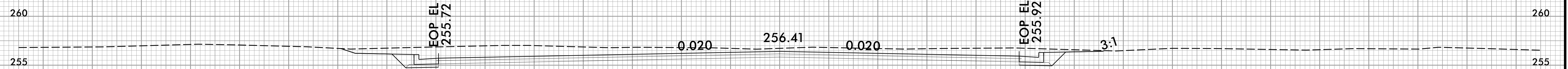
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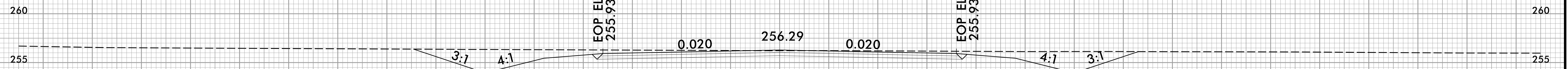
END Y1 STA. 11+24.89  
RESURFACE AND MAINTAIN  
EXISTING GRADE



11+24.89

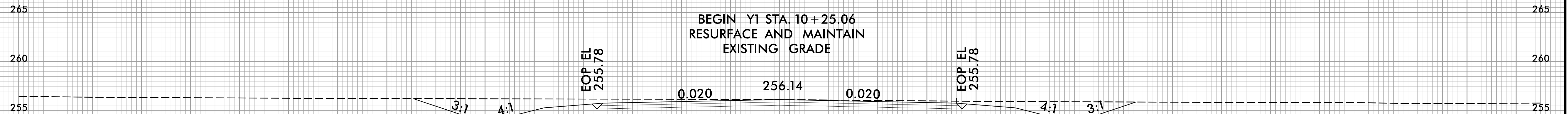


11+00.00



10+50.00

BEGIN Y1 STA. 10+25.06  
RESURFACE AND MAINTAIN  
EXISTING GRADE



10+25.06

ENSURE THAT POSITIVE DRAINAGE  
IS MAINTAINED.

-Y/-

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

8/12/2024  
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