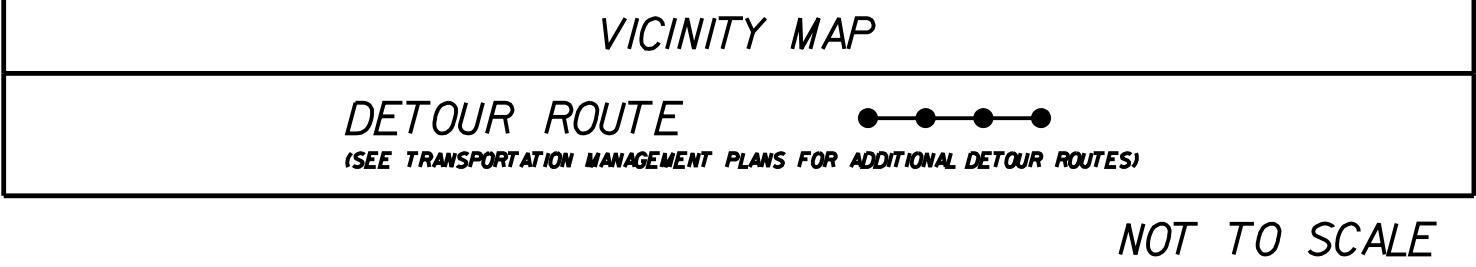
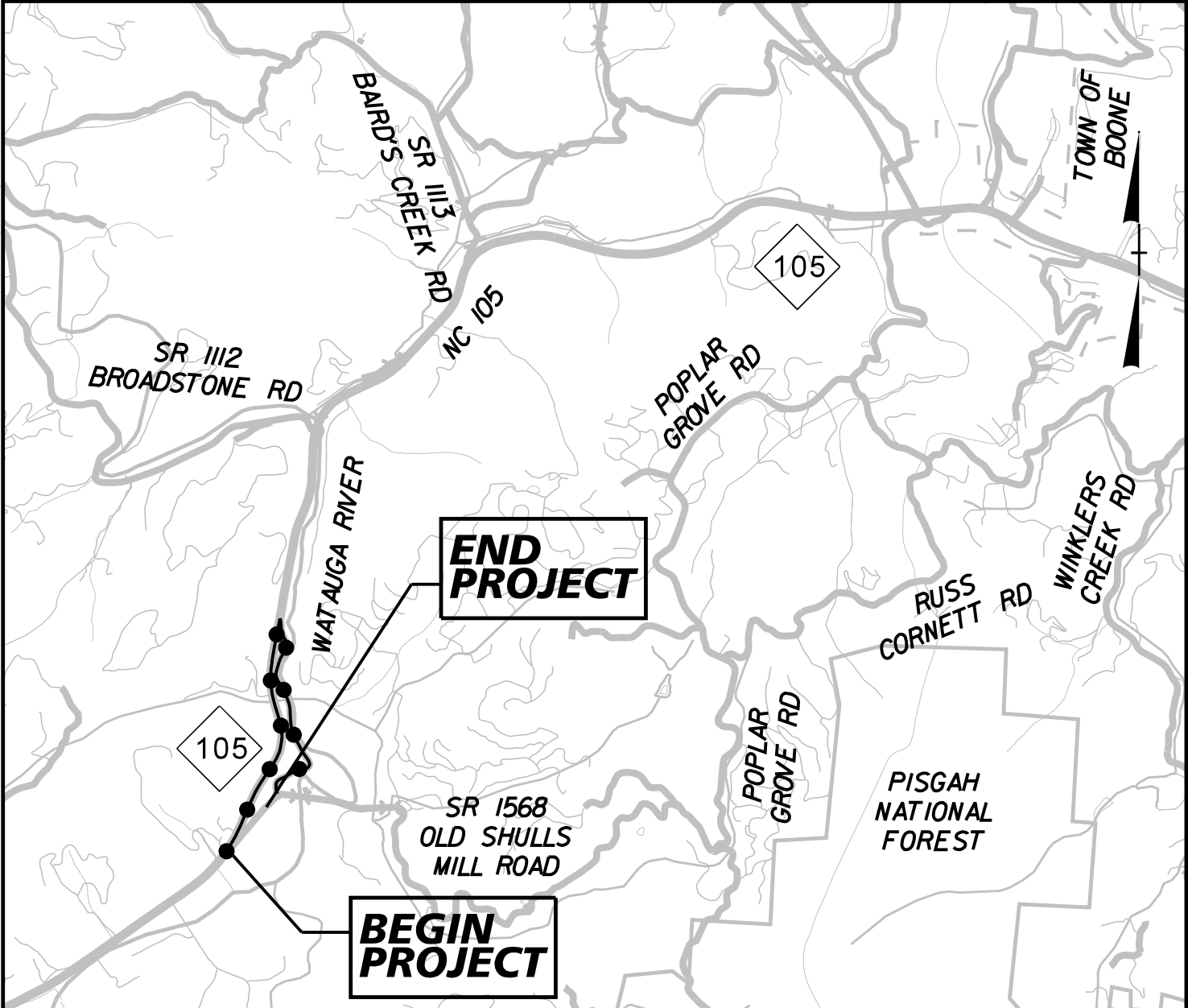


TIP PROJECT: R-2566BB

CONTRACT: DK00329

SEE SHEET 1A FOR INDEX OF SHEETS
SEE SHEET 1B FOR CONVENTIONAL PLAN SHEET SYMBOLS



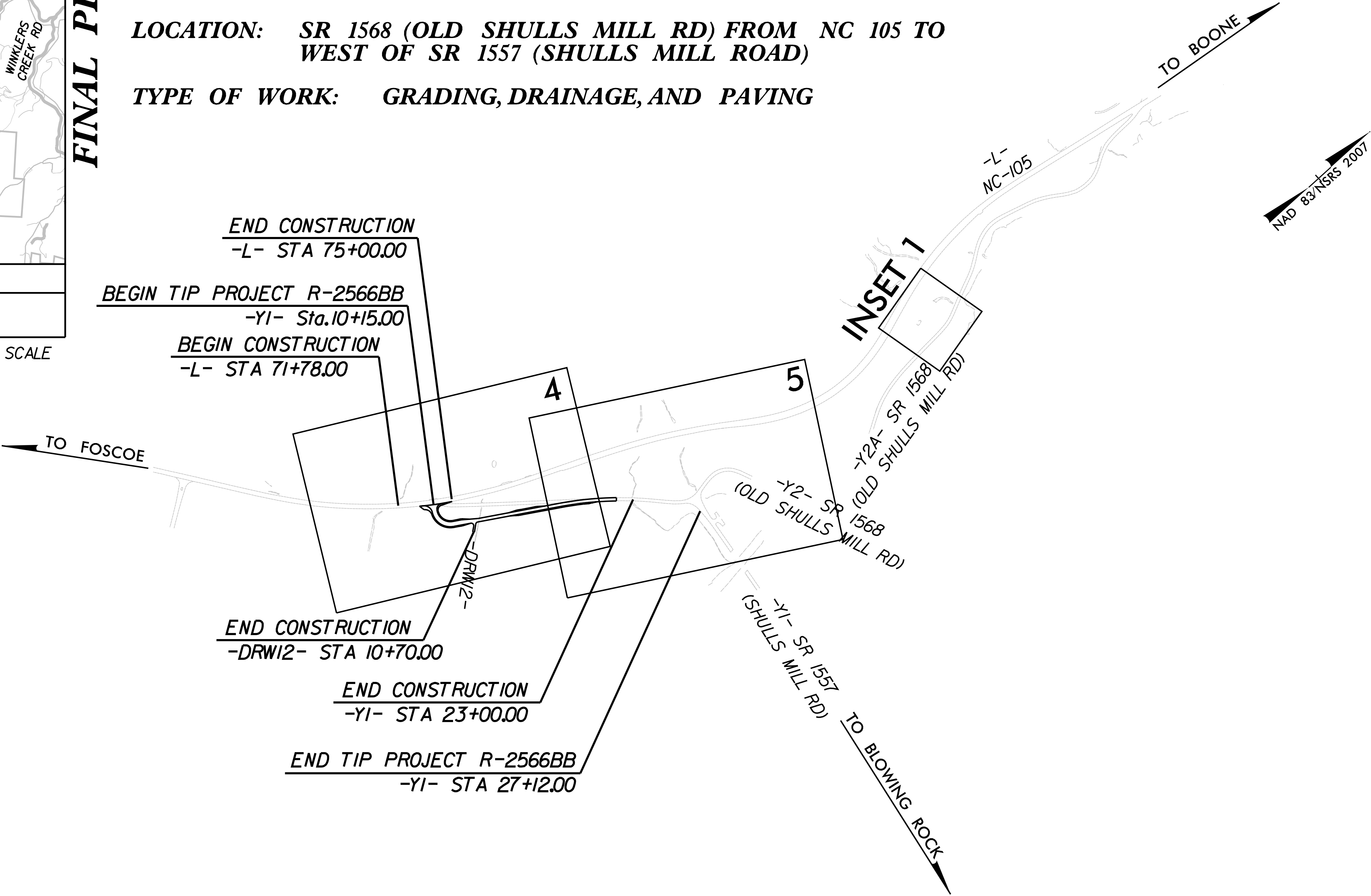
FINAL PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WATAUGA COUNTY

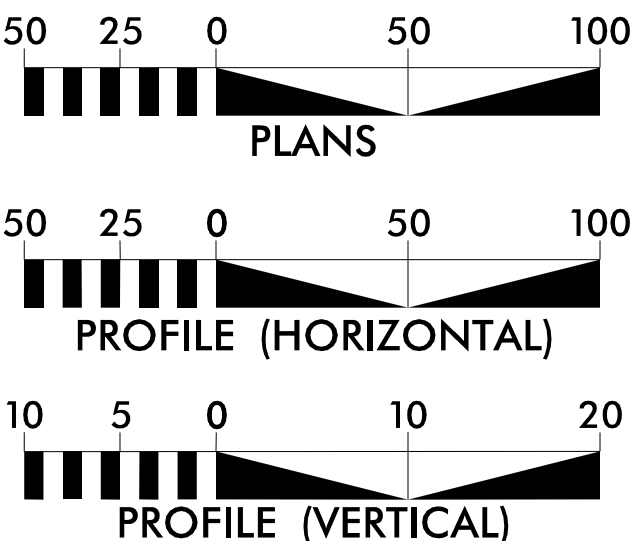
LOCATION: SR 1568 (OLD SHULLS MILL RD) FROM NC 105 TO WEST OF SR 1557 (SHULLS MILL ROAD)

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING



NCDOT CONTACT: RAMIE SHAW, P.E.
DIVISION 11, DIVISION PROJECT DEVELOPMENT ENGINEER
(336) 903-9134

GRAPHIC SCALES



DESIGN DATA

ADT 2022 = 670 VPD
ADT 2042 = 800 VPD
K = 9%
D = 55%
T = 3%*
V = 60 MPH
* 1% TTST 2% DUAL
FUNCTIONAL LOCAL
CLASSIFICATION: SUB-REGIONAL
TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2566BB = 0.321 MILES
TOTAL LENGTH TIP PROJECT R-2566BB = 0.321 MILES

PLANS PREPARED FOR
THE NCDOT BY:

Kimley »Horn

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 20, 2024

LETTING DATE:
JUNE 19, 2025

TONY SPACEK, P.E.
PROJECT ENGINEER

SYDNEY ROSENBLUM, P.E.
PROJECT DESIGN ENGINEER

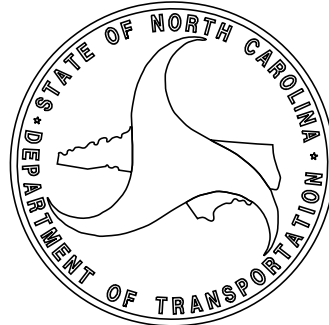
NORA MCCANN, E.I.T.
NCDOT CONTACT
PROJECT MANAGEMENT UNIT

HYDRAULICS ENGINEER

DocuSigned by
Jason Lawing
JASON D. LAWING
5/2/2025
P.E.

ROADWAY DESIGN ENGINEER

DocuSigned by
Anthony J. Spacek
ANTHONY J. SPACEK
5/2/2025
P.E.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2566BB	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
37512.1.7		P.E.	
37512.3.6		CONST.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

R-2566BB
WATAUGA COUNTY

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
R-2566BB	1A
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX OF SHEETS	
SHEET NUMBER	SHEET
I	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, LIST OF ROADWAY STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS SHEET
2A-1 THRU 2A-2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND MISCELLANEOUS DETAILS
2D-1	DRAINAGE DETAIL SHEET
3B-1	SUMMARY OF EARTHWORK
3B-2	SUMMARIES OF GUARDRAIL AND REMOVAL OF EXISTING PAVEMENT
3D-1	SUMMARY OF DRAINAGE QUANTITIES
3G-1	SUMMARIES OF AGGREGATE SUBGRADE/STABILIZATION AND SUBSURFACE DRAINAGE.
3P-1	PARCEL INDEX SHEETS
4 THRU 5	PLAN SHEETS
6 THRU 7	PROFILE SHEETS
TMP-1 THRU TMP-7	TRANSPORTATION MANAGEMENT PLAN
PMP-1 THRU PMP-3	PAVEMENT MARKING PLAN SHEETS
EC-1 THRU EC-7	EROSION CONTROL PLAN SHEETS
SIGN-1 THRU SIGN-4	SIGNING PLAN SHEETS
UO-1 THRU UO-3	UTILITIES BY OTHERS PLANS
X-1A	CROSS-SECTION INDEX
X-1B	CROSS-SECTION SUMMARY SHEETS
X-2 THRU X-13	CROSS-SECTIONS

GENERAL NOTES

2024 SPECIFICATIONS	EFFECTIVE: 01-16-2024 REVISED:	EFF. 01-16-2024 REV.
GRADING AND SURFACING OR RESURFACING AND WIDENING:	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 DIVISION 2 - EARTHWORK 200.03 Method of Clearing - Method III 225.01 Guide for Grading Subgrade - Interstate and Freeway 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 225.09 Guide for Shoulder and Ditch Transition at Grade Separations DIVISION 3 - PIPE CULVERTS 300.01 Method of Pipe Installation 310.10 Driveway Pipe Construction DIVISION 5 - SUBGRADE, BASES AND SHOULDERS 560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I DIVISION 6 - ASPHALT BASES AND PAVEMENTS 654.01 Pavement Repairs DIVISION 8 - INCIDENTALS 806.01 Concrete Right-of-Way Marker 838.01 Concrete Endwall for Single and Double Pipe Culverts - 15' thru 48" Pipe 90 Skew 840.31 Concrete Junction Box - 12" thru 66" Pipe 840.54 Manhole Frame and Cover 862.01 Guardrail Placement 862.02 Guardrail Installation 862.03 Structure Anchor Units 876.01 Rip Rap in Channels and Ditches 876.02 Guide for Rip Rap at Pipe Outlets	
CLEARING:	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.	
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.	
GUARDRAIL:	THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.	
UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE Blueridge EMC (Transmission) Skyline Membership Corporation AT&T Charter Communications	
RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.	

PROJECT REFERENCE NO.	SHEET NO.
<i>R-2566BB</i>	<i>1B</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
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	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

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	
<i>VEGETATION:</i>	
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	
End of Information	

5/14/99

NOTES:
1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS

REVISIONS	

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

2A-1

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034207

ANTHONY J. SPACEY

5/2/2025

PAVEMENT DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 024964

JOSEPH T. HOLLAND

5/2/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-Y1- OLD SHULLS MILL RD. (SR 1568)/
SHULLS MILL RD. (SR 1557)

20'

6' 9' W/ GUARDRAIL * 10' 10' 6' 9' W/ GUARDRAIL * 12'

MATCHLINE A * MATCHLINE B

0.08 0.02 0.02 0.08

EXISTING GROUND 4:1 2:1

VAR. SLOPE SEE X-SECTIONS

EXISTING GROUND

GRADE TO THIS LINE

GRADE POINT 0.02 7"

4:1 OR FLATTER 2:1

* PAVE TO FACE OF GUARDRAIL

TYPICAL SECTION NO. 1

-Y1- STA 10+15.00 TO STA 21+00.00

12' 3' 6' FDPS MATCHLINE A

EXISTING GROUND 2:1 4:1

GRADE TO THIS LINE

0.04 7"

TYPICAL SECTION NO. 1A

-Y1- STA 10+24.83 TO STA 12+65.00 (LT)
-Y1- STA 16+02.22 TO STA 17+19.66 (LT)

MATCHLINE B 6' 3' 12' FDPS

EXISTING GROUND 4:1 2:1

GRADE TO THIS LINE

0.04 7"

TYPICAL SECTION NO. 1B

-Y1- STA 10+37.45 TO STA 12+65.00 (RT)
-Y1- STA 16+09.82 TO STA 20+27.69 (RT)

PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROPOSED VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1" OR GREATER THAN 15" IN DEPTH.
D1	PROPOSED APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROPOSED VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.
J	6" AGGREGATE BASE COURSE
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

1.5" (MIN) 3" (MIN) U C1 OR C2 E2

MILL NOTCH TO KEY IN V1 C1 OR C2 U

1.5" MILL TO 50' OR AS DIRECTED BY ENGINEER

DETAIL 1 - METHOD OF WEDGING

**DETAIL 2 - INCIDENTAL MILLING DETAIL
USE AT TIE-IN WITH EXISTING**

K:\CHL_PRA\01036212 - (R-2566)\Roadway\Pro\R-2566BB_rdy_typ.dgn

3/3/2025

5/14/99

NOTES:
1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

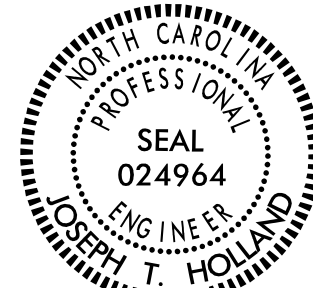
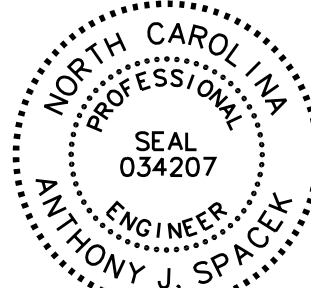
R-2566BB

SHEET NO.

2A-2

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

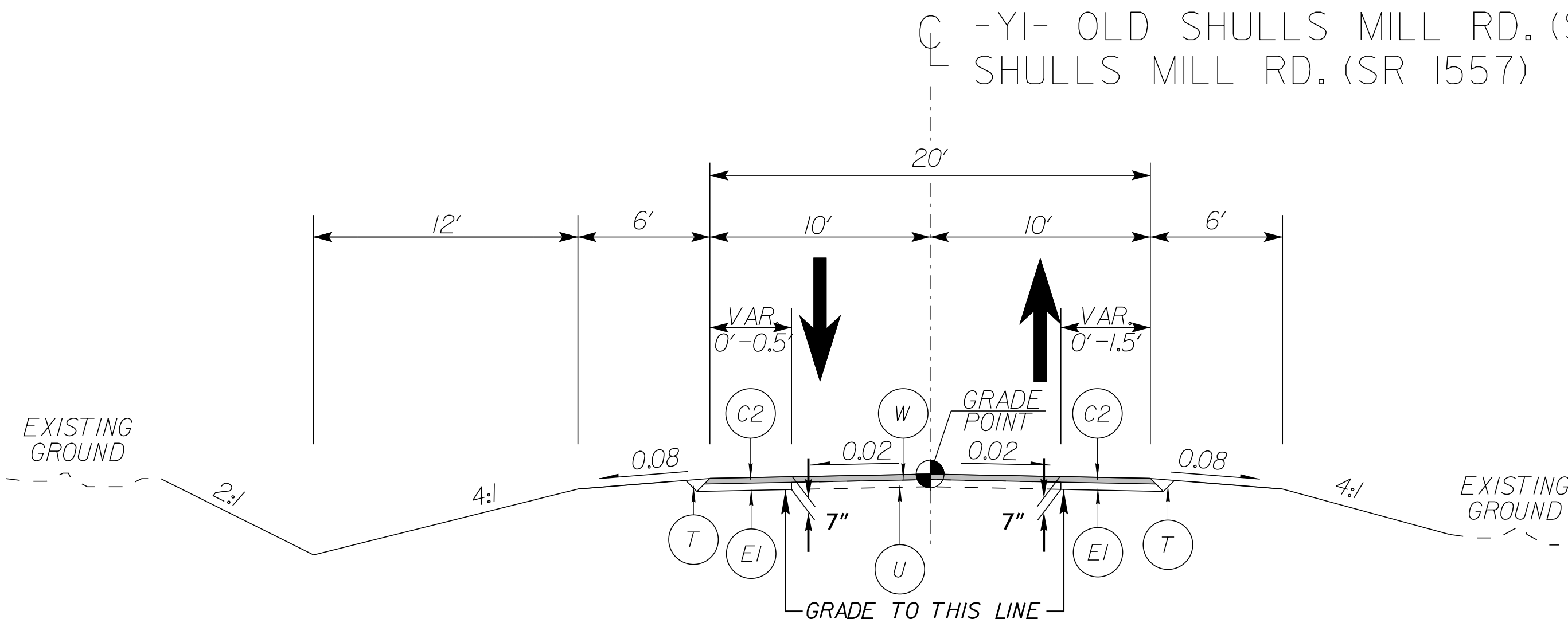


Signed by: Anthony J. Spacel
5/2/2025

Signed by: Joseph T. Holland
5/2/2025

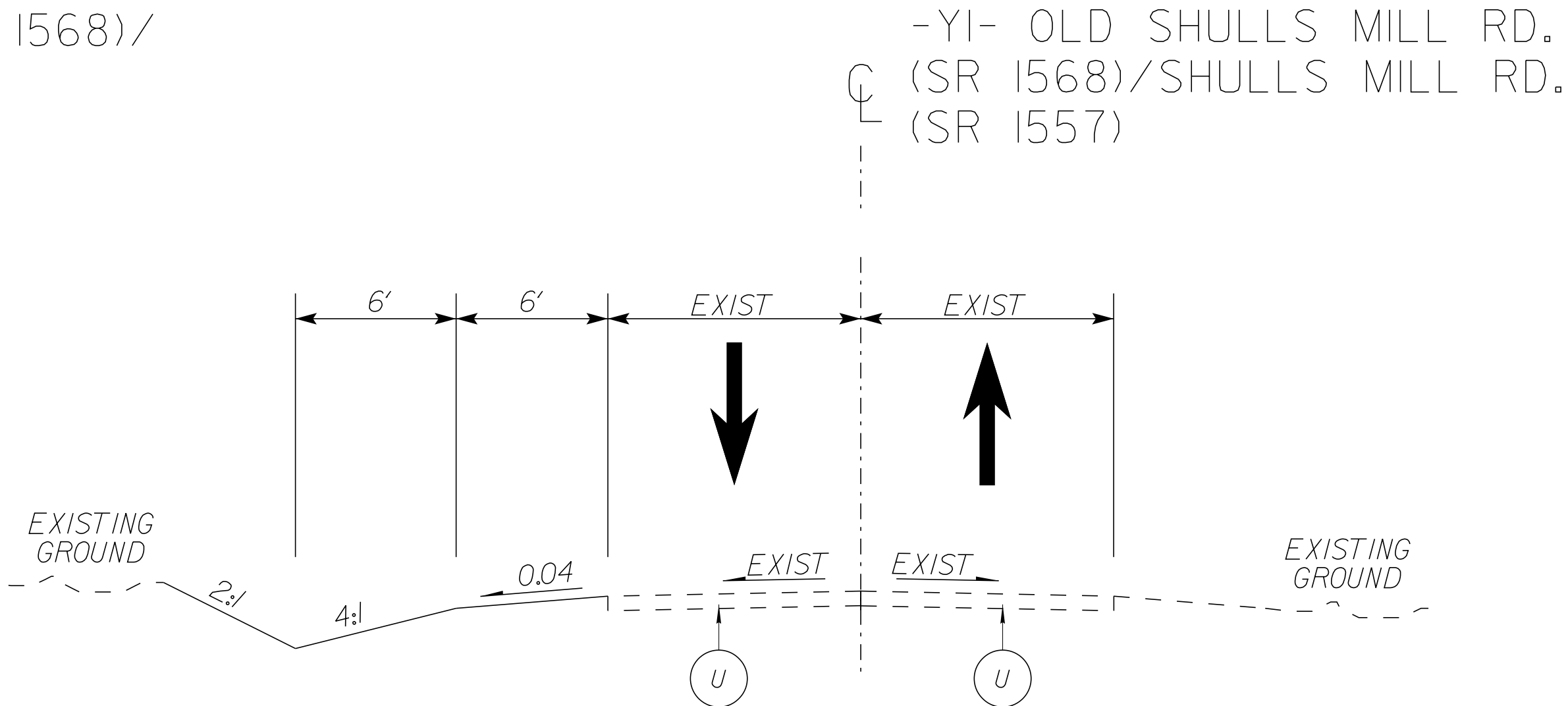
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REVISIONS



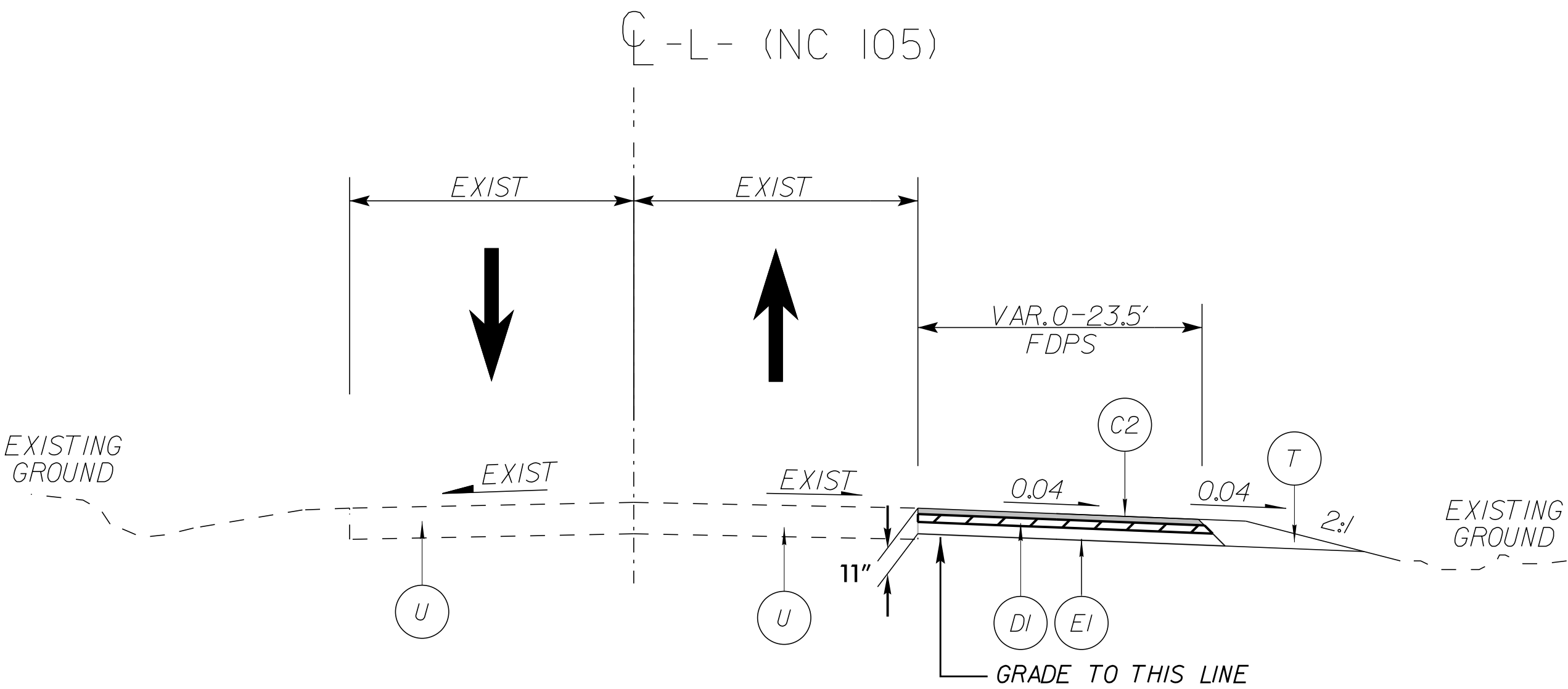
TYPICAL SECTION NO. 2

-Y1- STA 21+00.00 TO STA 22+00.00



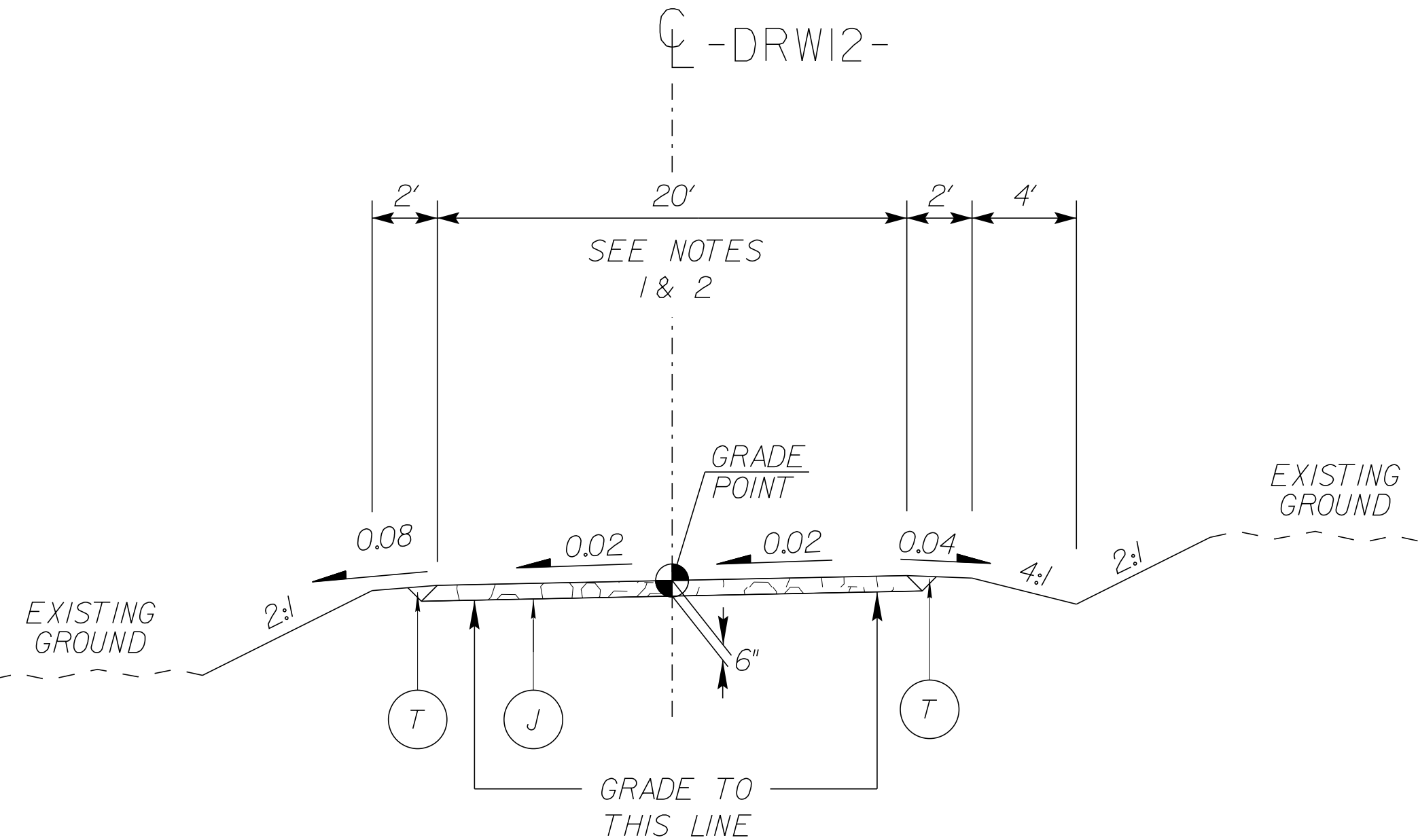
TYPICAL SECTION NO. 3

-Y1- STA 22+00.00 TO STA 23+00.00



TYPICAL SECTION NO. 4

-L- STA 71+78.00 TO STA 75+00.00



TYPICAL SECTION NO. 5

-DRW12- STA 10+10.64 TO STA 10+70.00

PAVEMENT SCHEDULE

C1	1.5' S9.5B
C2	3' S9.5B
C3	VAR.DEPTH S9.5B
DI	4' 119.0C
E1	4' B25.0C
E2	VAR.DEPTH B25.0C
J	6' AGGREGATE BASE COURSE
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING
W	WEDGING

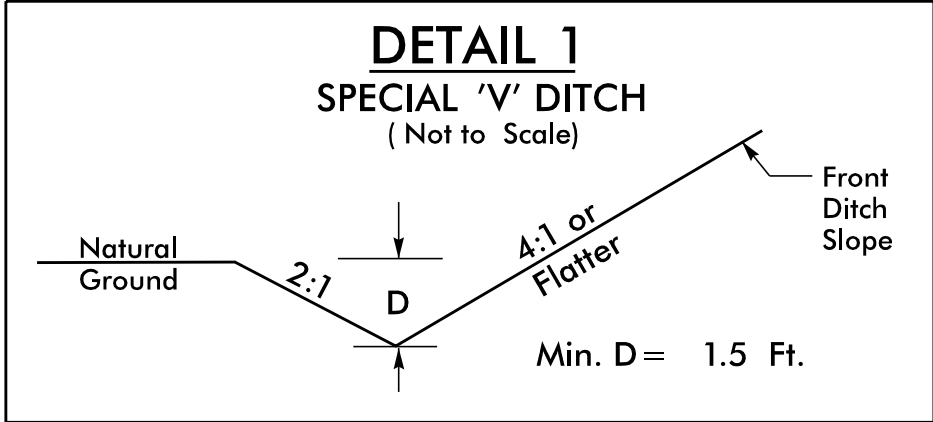
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3/3/2025

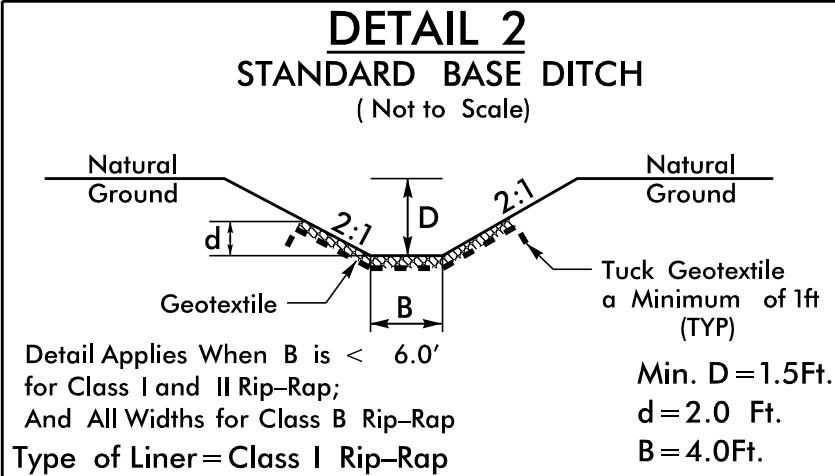
5/14/99

REVISIONS

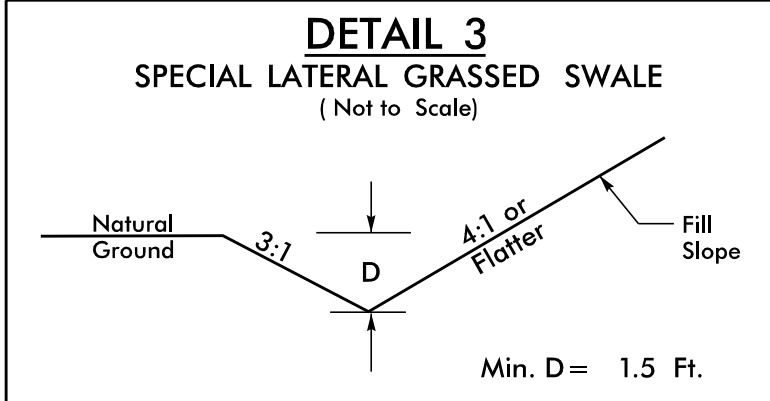
3/3/2025



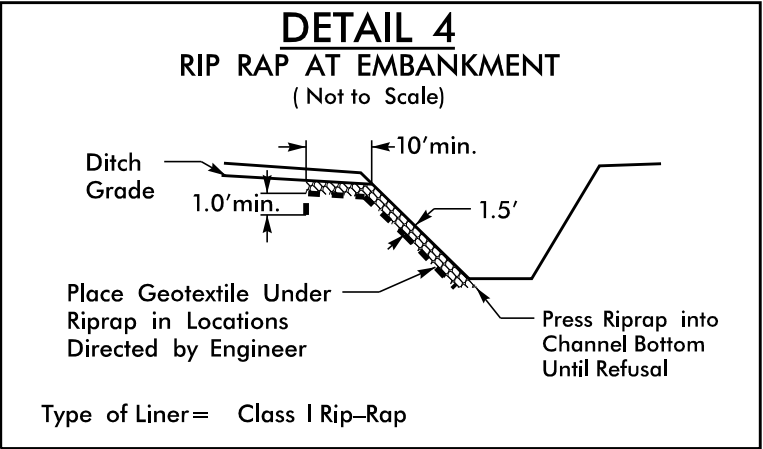
FROM STA. 19+50 TO STA. 20+50 -Y1- (LT)
FROM STA. 20+50 TO STA. 22+94 -Y1- (LT)



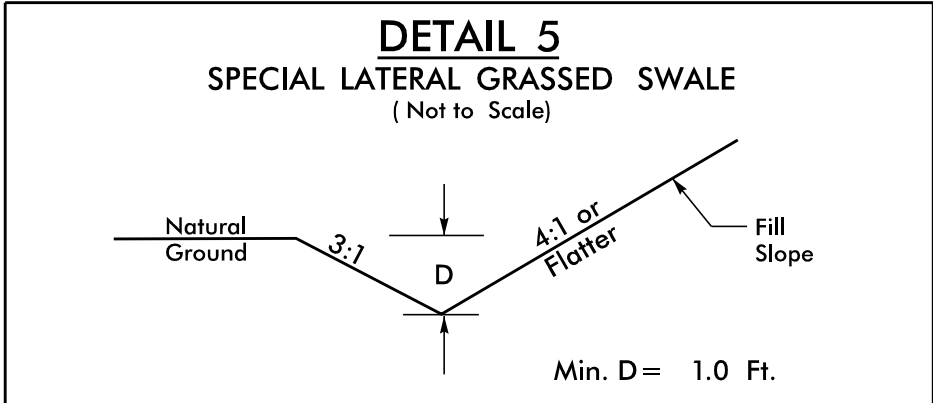
STA. 76+71 -L- (RT)



FROM STA. 11+00 TO STA. 13+78 -Y1- (LT)
FROM STA. 13+90 TO STA. 15+00 -Y1- (LT)



STA. 13+81 -Y1- (LT)
STA. 13+88 -Y1- (LT)
STA. 22+94 -Y1- (LT)



FROM STA. 15+00 TO STA. 19+50 -Y1- (LT)

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

2D-1

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



DocuSign
5/2/2025

DocuSign
5/2/2025

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

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE TL-3
NG = NON-GATING IMPACT ATTENUATOR TYPE TL-3

SUMMARY OF GUARDRAIL

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOULDER WIDTH	FLARE LENGTH		W		ANCHORS						IMPACT ATTENUATOR TYPE 350			TERMINAL SECTIONS	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL-2	GREU TL-3	GREU MEDIAN TL-3	TEMP GREU TL-3	CAT-1	TYPE III	EA	G	NG				
-L-/-Y1-	72 + 79.05	12 + 66.48	RT	100.00	225.00		73 + 50.00	12 + 00.00	VARIES	VARIES		25		0.5	1	1											
-L-/-Y1-	74 + 86.55	12 + 66.48	LT	100.00	162.50		11 + 41.51	74 + 50.00	VARIES	VARIES	25		0.5		1	1											
-Y1-	16 + 08.35	20 + 29.18	RT	425.00			17 + 33.38		6'	9'	25	25	0.5	0.5	2												
-Y1-	16 + 00.75	17 + 21.13	LT	125.00				16 + 54.69	6'	9'	25		0.5	0.5	2												
			SUBTOTAL	750.00	387.50									SUBTOTAL	6	2											
	LESS ANCHOR DEDUCTIONS																										
	GREU TL-2	6 @ 25'	=	150.00																							
	GREU, TL-3	2 @ 50'	=	100.00																							
			TOTAL	500.00	387.50																						
			SAY	500.00	387.50																						
ADDITIONAL GUARDRAIL POSTS = 5 EA																											

SUMMARY OF PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
Y1	10 + 23	18 + 46	LT	1623.56
			TOTAL:	1623.56
			SAY:	1630

COMPUTED BY: D. Clayton Elliott, PG	DATE: Aug. 16, 2022
CHECKED BY: Shane C. Clark, PE	DATE: Aug. 16, 2022

(12-17-19)

PROJECT NO.	SHEET NO.
R-2566BB	3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
	CONTINGENCY			SD	200
				TOTAL LF:	200

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF GEOTEXTILE
FOR PAVEMENT STABILIZATION

LINE	Station	Station	Geotextile for Pavement Stabilization SY	Class IV Subgrade Stabilization TONS
	CONTINGENCY			
	TOTAL SY/TONS:		0	0*

*Total tons of "Class IV Subgrade Stabilization" is only the estimated quantity for pavement stabilization and may only represent a portion of the subgrade stabilization quantity shown in the Item Sheets of the Proposal.

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
	CONTINGENCY		ASU(1)	12	125	250	375		
			TOTAL CY/TONS/SY:		125	250**	375**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

-L-			-YI-		
PI Sta 69+69.69	PI Sta 77+58.75	PIs Sta 81+79.84	PI Sta 11+55.36	PI Sta 21+27.42	
$\Delta = 17^{\circ}49'23.6"$ (LT)	$\Delta = 12^{\circ}10'09.3"$ (LT)	$\Theta s = 1^{\circ}42'37.2"$	$\Delta = 92^{\circ}59'28.6"$ (LT)	$\Delta = 15^{\circ}10'18.8"$ (RT)	
D = 2'02'46.6"	D = 1'42'37.2"	Ls = 200.00'	D = 57'17'44.8"	D = 2'51'53.2"	
L = 871.01'	L = 711.52'	LT = 133.34'	L = 162.30'	L = 529.60'	
T = 439.05'	T = 357.10'	ST = 66.67'	T = 105.36'	T = 266.36'	
R = 2,800.00'	R = 3,350.00'		R = 100.00'	R = 2,000.00'	
SE = 0.05	SE = 0.05		SE = 0.03	SE = RC	
RO = 135'	RO = 200'		RO = 63'	RO = 32'	
			DS = 20 MPH	DS = 30 MPH	

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

NAD 83/NRS 2007

PROJECT REFERENCE NO.
R-2566BB

SHEET NO.
4

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034207

ANTHONY J. SPACEK

DocuSigned By: 5/2/2025

NORTH CAROLINA PROFESSIONAL SEAL 032615

ALAN D. LAMING

DocuSigned By: Jason Lawing 5/2/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

2019 ADT		2045 ADT	
DHV = 9%	DIR = 60%	DHV = 9%	DIR = 60%
TTST = 1%	DUAL = 3%	TTST = 1%	DUAL = 3%
-L- NC 105		-L- NC 105	
13000	900	100	12100
18600	1000	100	17600
DHV = 9%		900	
DIR = 60%		1000	
TTST = 1%		-YI- OLD SHULLS	
DUAL = 3%		MILL RD	

SEE SHEET 6 FOR -L- PROFILE
SEE SHEET 7 FOR -YI- PROFILE
SEE SHEET 7 FOR -DRWI2- PROFILE

PAVEMENT REMOVAL

PROPOSED PAVED SHOULDER

RADI DIMENSIONS ARE TO THE EDGE
OF PAVEMENT UNLESS OTHERWISE NOTED

K:\CHL_PRJ\01036212 - (R-2566)\Roadway\Pro\N-R-2566BB_Rdy_pst_04.dgn

3/3/2025

PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

5

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034207

ANTHONY J. SPACEK

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 032615

ALAN D. LAMING

DocuSigned by

5/2/2025

DocuSigned by

5/2/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

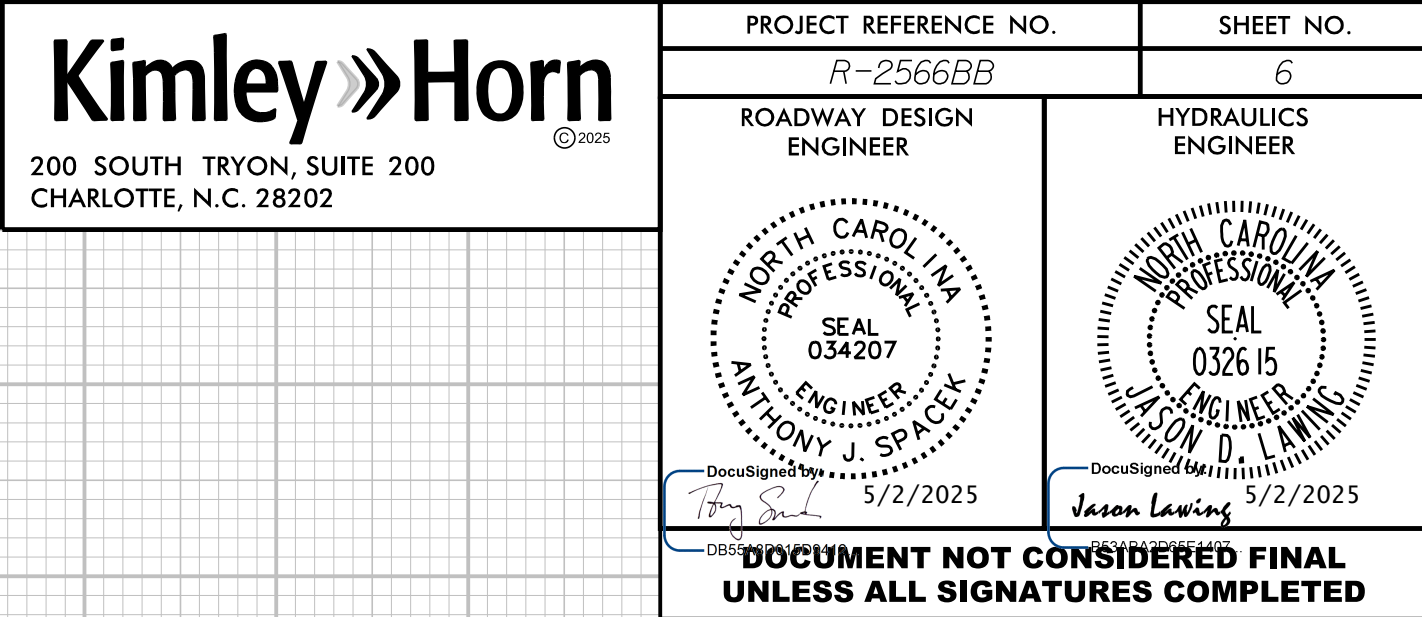
Kimley»Horn

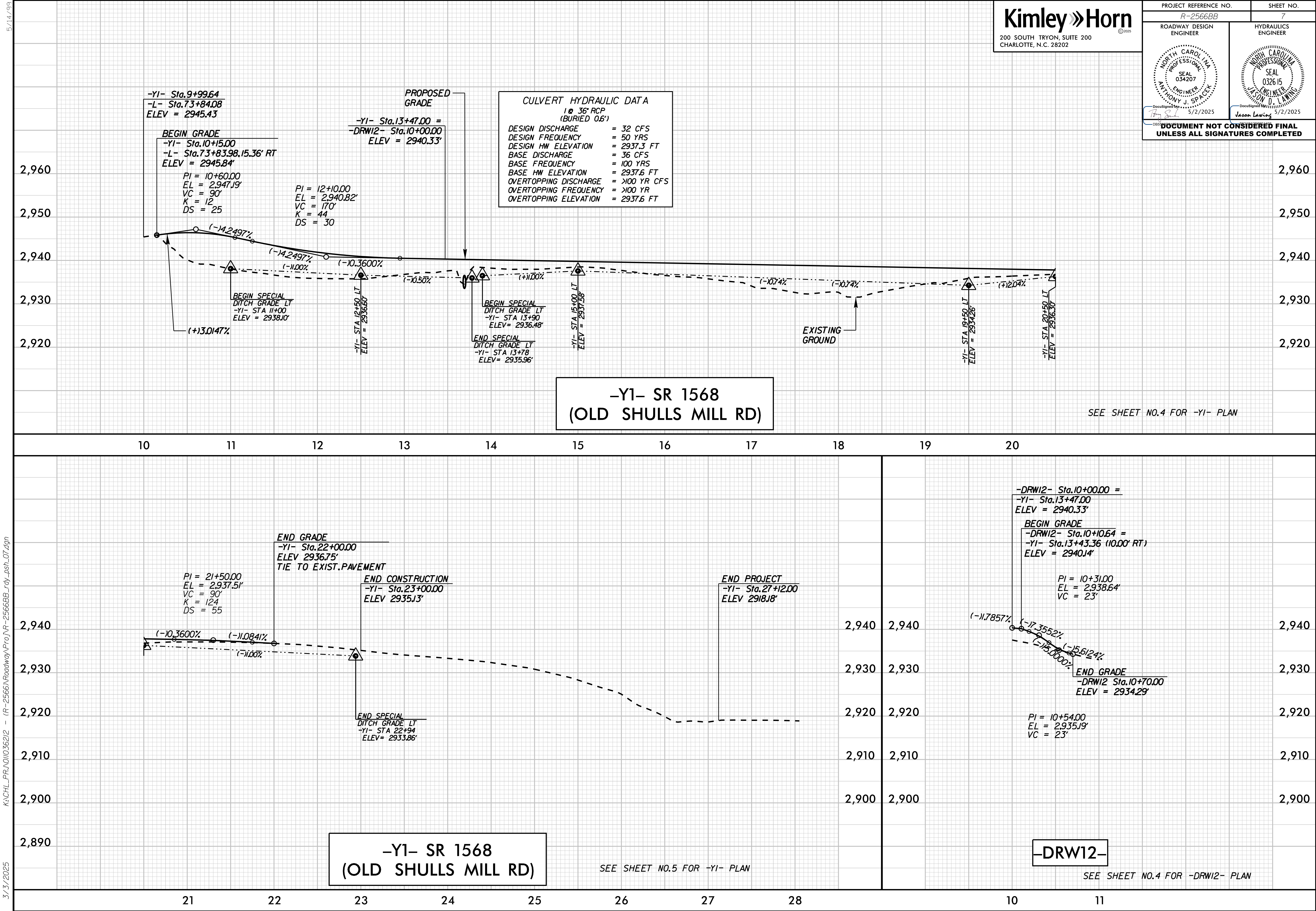
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

HOUND EARS COUNTRY CLUB
DB 2265 PG 575

The main site plan illustrates the proposed road layout for the Hound Ears Country Club. It includes property lines for Richard Ray & Debra B. Clark, Hound Ears Club Inc., and Blue Ridge Electric. The plan shows various easements, including a 100-foot utility easement and a 50-foot rip-rap embankment. Key features include the proposed paved shoulder, existing right-of-way (R/W), and proposed right-of-way (R/W). Stationing is provided for all road segments, and curve data is detailed in the tables below.

Station	PI Sta	Δ	D	L	T	R	SE	RO	DS
-L- SC Sta. 85+53.16	81+79.84	1° 42' 37.2"	200.00'	133.34'	66.67'				
-L- SRS Sta. 83+13.16	84+73.19	3° 26' 15.9"	240.00'	160.03'	80.03'				
-L- CS Sta. 89+27.91	87+41.09	10° 44' 08.0" (RT)	2° 51' 53.2"	374.74'	187.92'	2,000.00'	0.06	240'	
-L- SRS Sta. 91+67.91	91+67.91								
-L- SC Sta. 94+01.91	94+01.91								
-Y1- SR 1568	21+27.42	15° 10' 18.8" (RT)	2° 51' 53.2"	529.60'	266.36'	2,000.00'	RC	32'	30 MPH
-Y1- PC Sta. 25+56.12	26+96.76	50° 13' 57.6" (RT)	19° 05' 54.9"	263.02'	140.63'	300.00'	0.04	32'	30 MPH
-Y1- PT Sta. 28+19.14	29+49.90	0° 30' 41.8" (RT)	0° 30' 00.0"	102.32'	51.16'	11,459.16'	EXIST	64'	EXIST
-Y1- POC Sta. 26+37.36	26+37.36								
-Y1- POT Sta. 10+00.00	10+00.00								
-Y1- PC Sta. 27+12.00	27+12.00								
-Y1- PT Sta. 28+19.14	28+19.14								
-Y1- PC Sta. 28+98.74	28+98.74								
-Y1- PT Sta. 30+01.06	30+01.06								
-Y2- PT Sta. 14+02.66	14+02.66								
-Y2- POT Sta. 14+80.17	14+80.17								
-Y2- PC Sta. 11+87.97	11+87.97								
-Y2- SR 1568	13+16.56	79° 21' 39.3" (RT)	36° 57' 54.1"	214.69'	128.59'	155.00'	EXIST	80'	EXIST
-Y2- PT Sta. 14+80.17	14+80.17								
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PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

7

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034207

ANTHONY J. SPACEK

5/2/2025

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 032615

JASON LAWING

5/2/2025

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

5/14/2025

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3/3/2025

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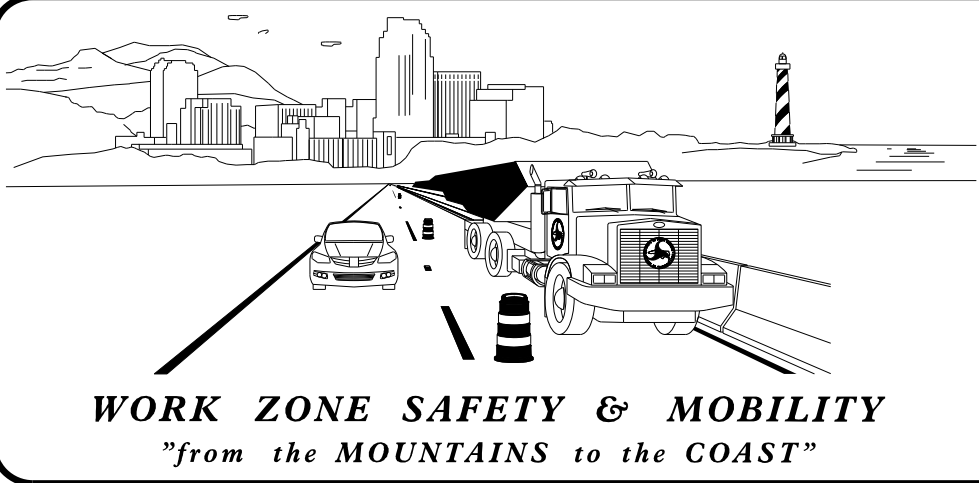
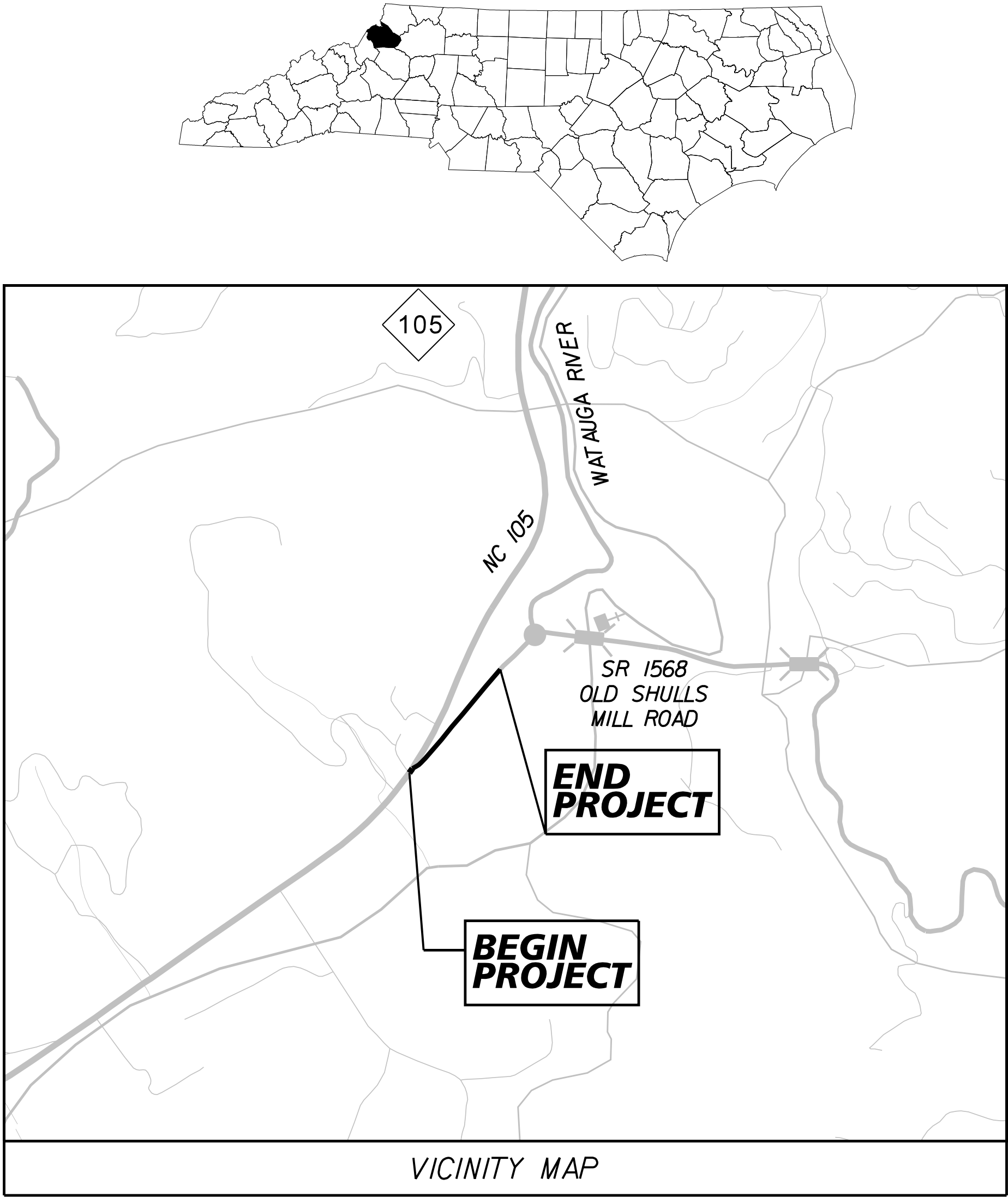
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WATAUGA COUNTY

LOCATION: SR 1568 (OLD SHULLS MILL RD) FROM NC 105 TO WEST OF SR 1557 (SHULLS MILL ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, PAVEMENT REMOVAL, AND PAVEMENT MARKINGS



PLANS PREPARED BY:

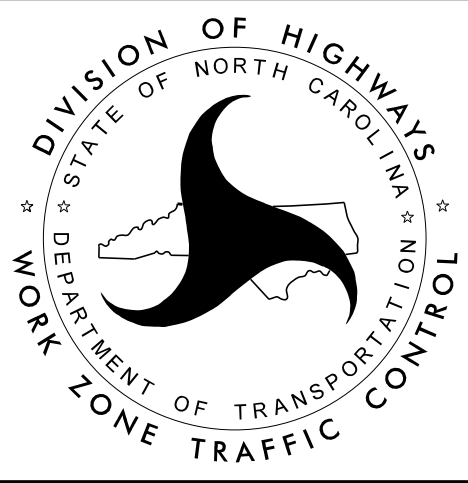
TONY SPACEK, P.E.
PROJECT ENGINEER

ANDREW WEEKS, E.I.
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

RAMIE SHAW, P.E.
PROJECT MANAGER

IVAN DISHMAN, P.E.
WESTERN WZTC ENGINEER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A THRU TMP-1C	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, TEMPORARY PAVEMENT MARKINGS, MANAGEMENT STRATEGIES, AND GENERAL NOTES
TMP-2A	DETOUR SHEET
TMP-2B	SPECIAL SIGN DESIGN
TMP-3	CONSTRUCTION PHASING
TMP-4 THRU TMP-5	PHASE 1 DETAILS
TMP-6 THRU TMP-7	PHASE 2 DETAILS

2/28/25 DATE SUBMITTED

SUBMITTAL:

- ☐ STAGING CONCEPT
☐ MIDPOINT
☐ PRE-FINAL
☒ FINAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Kimley»Horn

© 2025

APPROVED: [Signature] DATE: 5/2/2025



SHEET NO.
TMP-1

R-2566BB

TIP PROJECT:

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3/3/2025

PROJ. REFERENCE NO.	SHEET NO.
R-2566BB	TMP-1A

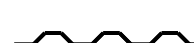
ROADWAY STANDARD DRAWINGS

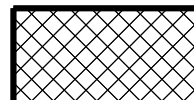
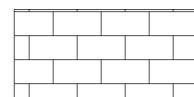
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
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 - TYPE III
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1170.01	PORTABLE CONCRETE BARRIER
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1251.01	RAISED PAVEMENT MARKERS - PERMANENT & TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATOS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES

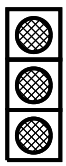
LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)

-  WORK AREA
-  WEDGING
-  REMOVAL
-  TEMPORARY PAVEMENT
-  JACK & BORE PIT
-  CATCHMENT AREA

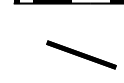
SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  TEMPORARY CRASH CUSHION
-  TEMPORARY PORTABLE CONC. BARRIER
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN
-  TUBULAR MARKER
-  SKINNY DRUM

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

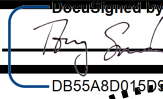
-  CRYSTAL / CRYSTAL
-  CRYSTAL / RED
-  YELLOW / YELLOW

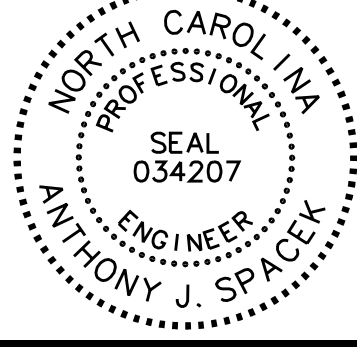
PAVEMENT MARKING SYMBOLS

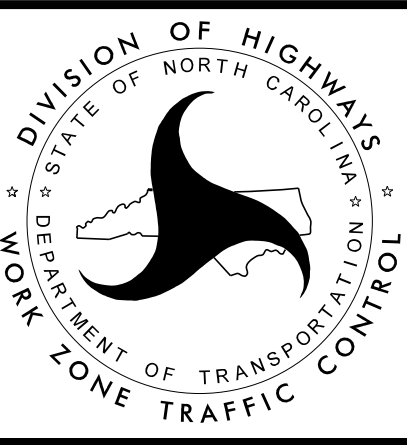
-  PAVEMENT MARKING SYMBOLS

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**ROADWAY STANDARD
DRAWINGS & 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 UNDESIRE

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.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- NC 105	6:00 AM TO 9:00 AM AND
-Y1- OLD SHULLS MILL RD.	4:00 PM TO 7:00 PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
-L- NC 105
-Y1- OLD SHULLS MILL RD.

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR’S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR’S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. TO 9:00 P.M. SUNDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. MONDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 P.M. THE DAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. MONDAY.

TIME RESTRICTIONS (CONT.)

- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- NC 105	ANYTIME UNLESS
-Y1- OLD SHULLS MILL RD.	OTHERWISE DIRECTED BY THE ENGINEER

D) DO NOT STOP TRAFFIC AS FOLLOWS, OR AS OTHERWISE DIRECTED BY THE ENGINEER:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
-L- NC 105	6:00 AM TO 9:00 AM AND	15 MINUTES,
-Y1- OLD SHULLS MILL RD.	4:00 PM TO 7:00 PM	TRAFFIC OPERATIONS

E) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

F) DO NOT CONDUCT ANY BLASTING OPERATIONS DURING THE FOLLOWING TIMES:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- NC 105	2:00 PM TUESDAY TO 11:00 AM THURSDAY AND
-Y1- OLD SHULLS MILL RD.	2:00 PM THURSDAY TO 11:00 AM TUESDAY

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONT.)

- 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.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

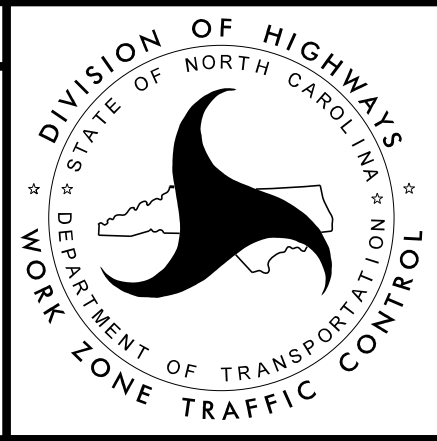
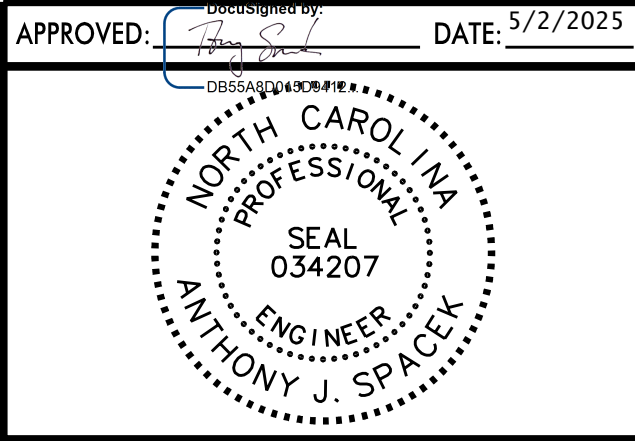
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

- 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) 500 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

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GENERAL NOTES (CONT.)

PROJ. REFERENCE NO.	SHEET NO.
R-2566BB	TMP-1C

SIGNING

- M) 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.
- N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
- O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 ft IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- R) 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.
- S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

TEMPORARY BARRIER

- U) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- V) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

PAVEMENT MARKINGS AND MARKERS

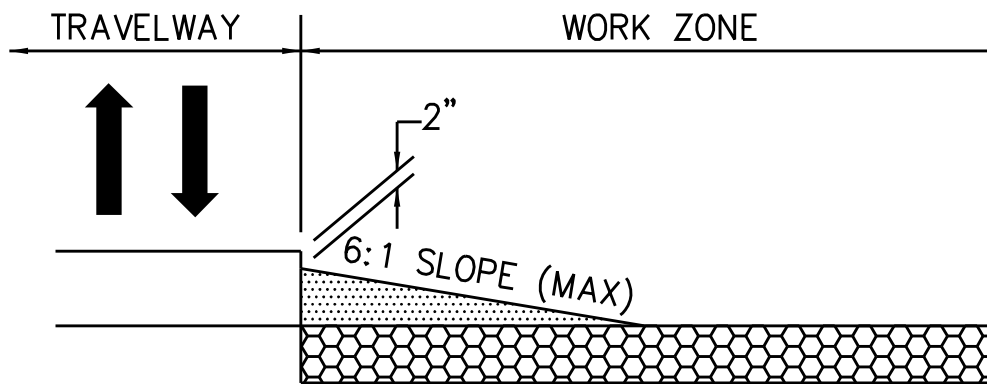
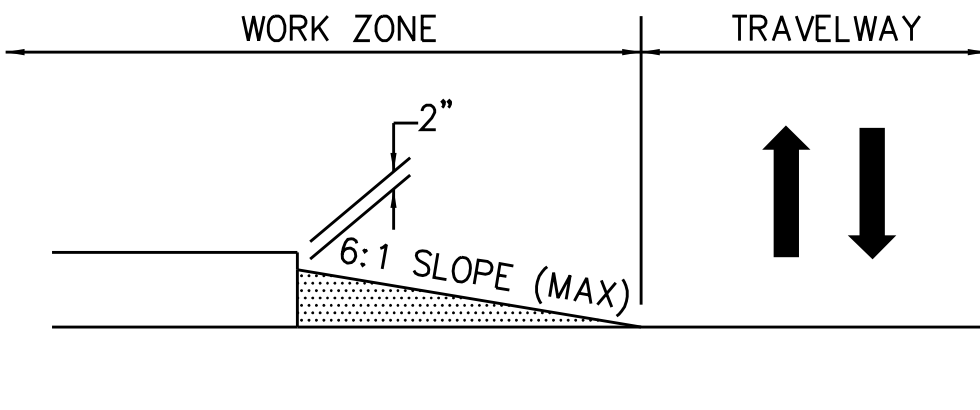
- W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

- X) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

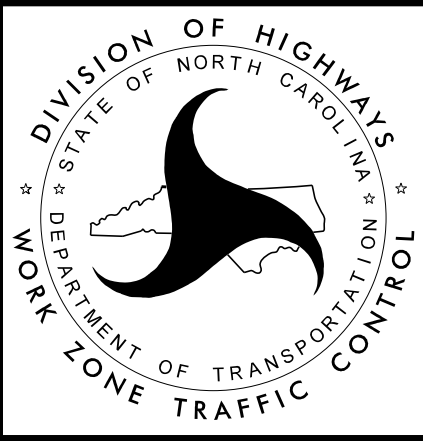
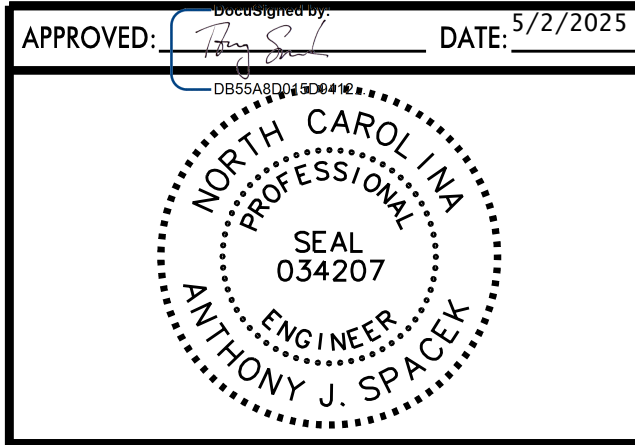
- AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- AB) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- AC) CONTRACTOR TO ADHERE TO ALL MUNICIPAL NOISE ORDINANCE FOR THE DURATION OF THE PROJECT.



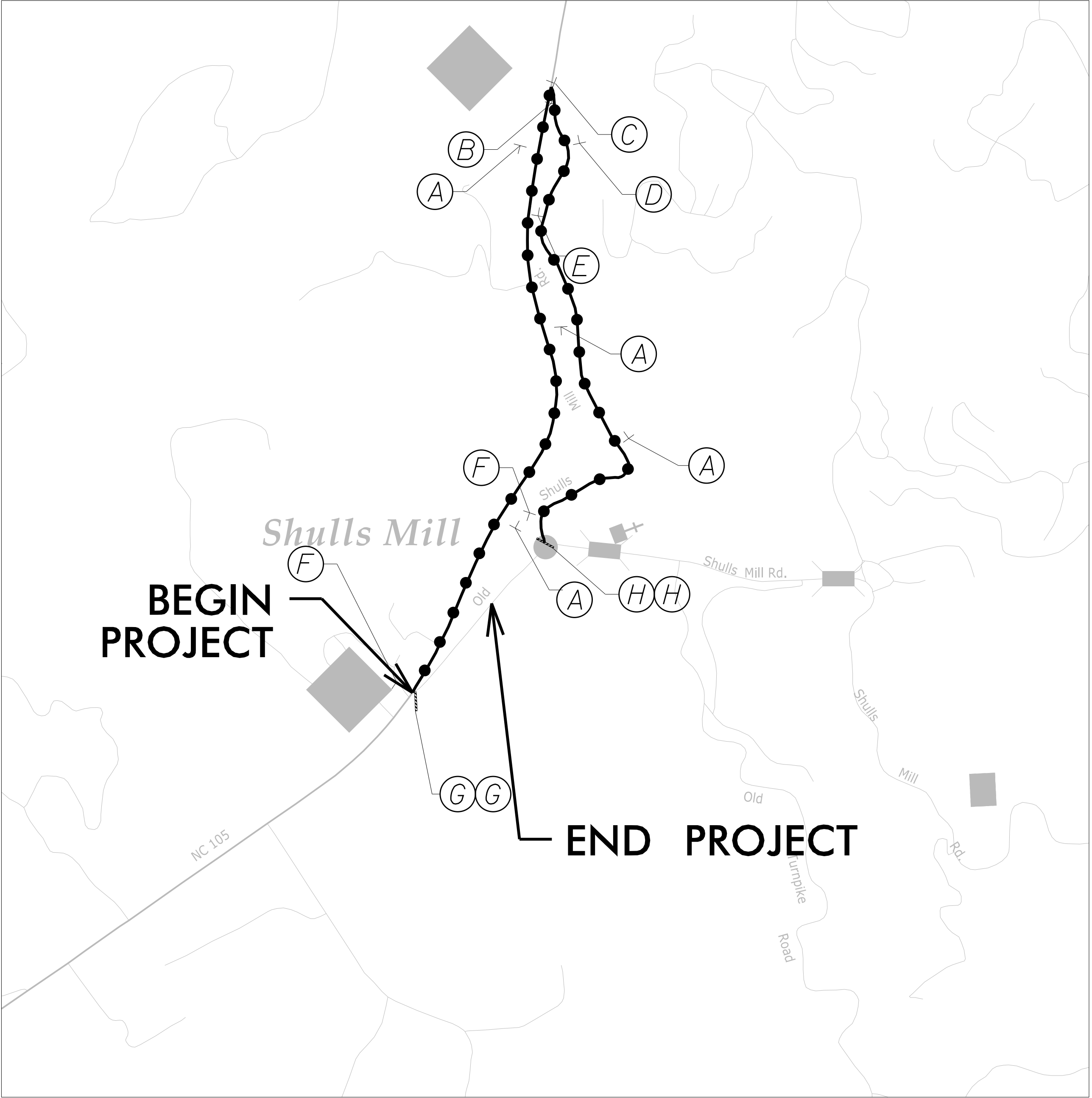
TEMPORARY PAVEMENT WEDGING DETAILS

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TRANSPORATION
OPERATIONS
PLAN



OLD SHULLS MILL RD SD-1 36" X 18"

DETOUR M4-8 24" X 12"

↑ M6-3 21" X 15"

OLD SHULLS MILL RD SD-1 36" X 18"

DETOUR 24" X 12" M4-8

↶ M5-1 21" X 15"

OLD SHULLS MILL RD SD-1 36" X 18"

DETOUR 24" X 12" M4-8

→ M6-1 21" X 15"

OLD SHULLS MILL RD SD-1 36" X 18"

DETOUR 24" X 12" M4-8

↷ M5-1 21" X 15"

OLD SHULLS MILL RD SD-1 36" X 18"

DETOUR 24" X 12" M4-8

↶ M6-1 L 21" X 15"

OLD SHULLS MILL RD SD-1 36" X 18"

END DETOUR M4-8 A 24" X 18"

Ⓔ R11-4 60" x 30"

ROAD CLOSED TO THRU TRAFFIC

← DETOUR M4-10L 48" x 18"

TYPE III BARRICADE

Ⓕ R11-4 60" x 30"

ROAD CLOSED TO THRU TRAFFIC

→ DETOUR M4-10R 48" x 18"

TYPE III BARRICADE

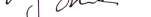
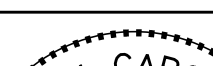
LEGEND

—●—●—●— R-2566BB DETOUR ROUTE

⊥ STATIONARY SIGN

NOTE: UTILIZE RSD 1101.11 SHEET 4 OF 4 TO PLACE PROPOSED DETOUR SIGNS

APPROVED: DATE: 5/2/2025 SEAL			TRAFFIC CONTROL DETOUR SHEET
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

APPROVED: _____ DESIGNED BY:  DB05AAD015D09412		
DATE: 5/2/2025 _____	SPECIAL SIGN DESIGN	
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CONSTRUCTION PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2566BB	TMP-3

MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS ALONG OLD SHULLS MILL ROAD WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS, TEMPORARY LANE CLOSURES, AND TEMPORARY ROAD AND INTERSECTION CLOSURES WITH OFFSITE DETOUR ROUTES. PEDESTRIANS WILL BE MAINTAINED THROUGHOUT CONSTRUCTION IN AREAS WHERE CONNECTIVITY PRESENTLY EXISTS USING PEDESTRIAN DETOURS AND CONSTRUCTION SEQUENCING. THE PROPOSED STORM DRAINAGE SYSTEM CONSTRUCTION WILL BE SEQUENCED AND REQUIRE TEMPORARY CONNECTIONS, ADJUSTMENTS OF BOX ELEVATIONS, AND TEMPORARY ROAD CLOSURES.

PHASE 1

PRIOR TO BEGINNING ANY CONSTRUCTION THE CONTRACTOR SHALL INSTALL WORK ZONE ADVANCE WARNING SIGNS AS SHOWN IN THE NCDOT ROADWAY STANDARD DRAWING NO 1101.01.

STEP 1:

WHILE MAINTAINING TRAFFIC IN THE EXISTING PATTERN, CONSTRUCT NEW LOCATION -Y1- OLD SHULLS MILL RD. RIGHT (STA. 10 + 50 +/- TO STA. 20 + 80 +/-) AS SHOWN ON SHEET TMP-04.

PHASE 2

STEP 1:

CONTRACTOR TO INSTALL CLOSURE AND DETOUR ADVANCED WARNING SIGNS AS SHOWN ON TMP-02 FOR -Y1- OLD SHULLS MILL RD DETOUR.

STEP 2:

CONSTRUCT PROPOSED IMPROVEMENTS AND ASSOCIATED DRAINAGE LEFT AND RIGHT SIDE OF -Y1- OLD SHULLS MILL RD (STA. 20+80 +/- TO STA 22+00 +/-). REFER TO CROSS SECTIONS FOR WEDGING LIMITS.

CONTRACTOR TO BUILD REMAINING SHOULDER AND GUARDRAIL AT INTERSECTION OF -L- AND -Y1-.

STEP 3:

PLACE FINAL LAYER OF ASPHALT, FINAL PAVEMENT MARKINGS, MARKERS, AND SIGNAGE ON ALL ROADS.

STEP 4:

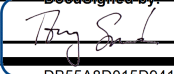
CONTRACTOR TO REMOVE DETOUR AND CLOSURE SIGNS AS SHOWN ON TMP-02 TO OPEN NEW LOCATION ROAD TO TRAFFIC.

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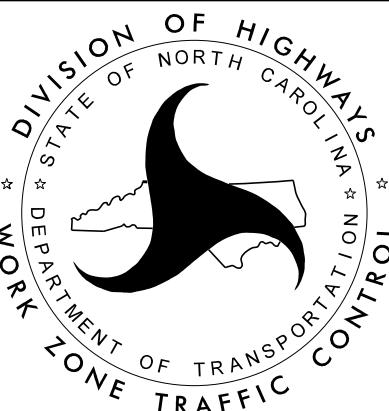
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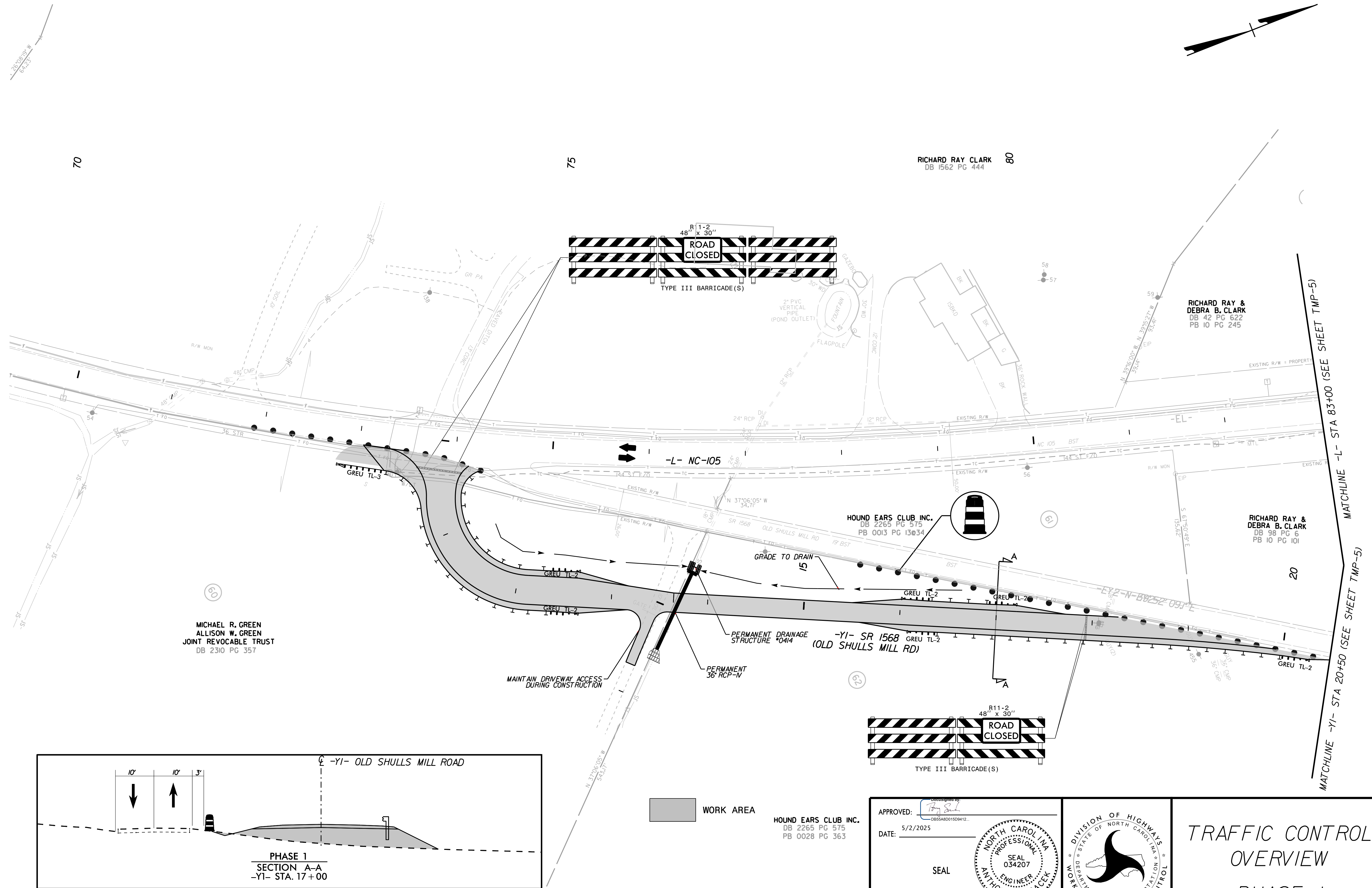
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PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2566BB	TMP-4



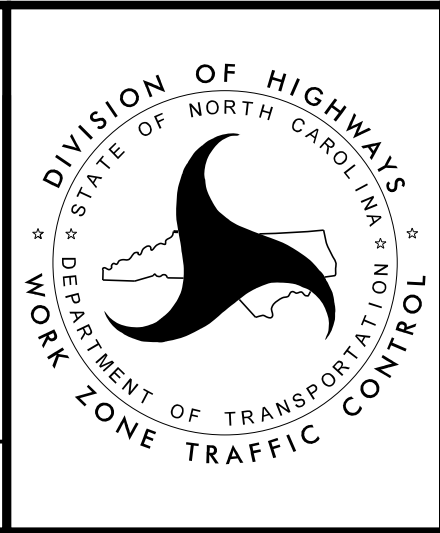
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DESIGNED BY: Tony Smith
DESSAID01508412

DATE: 5/2/2025

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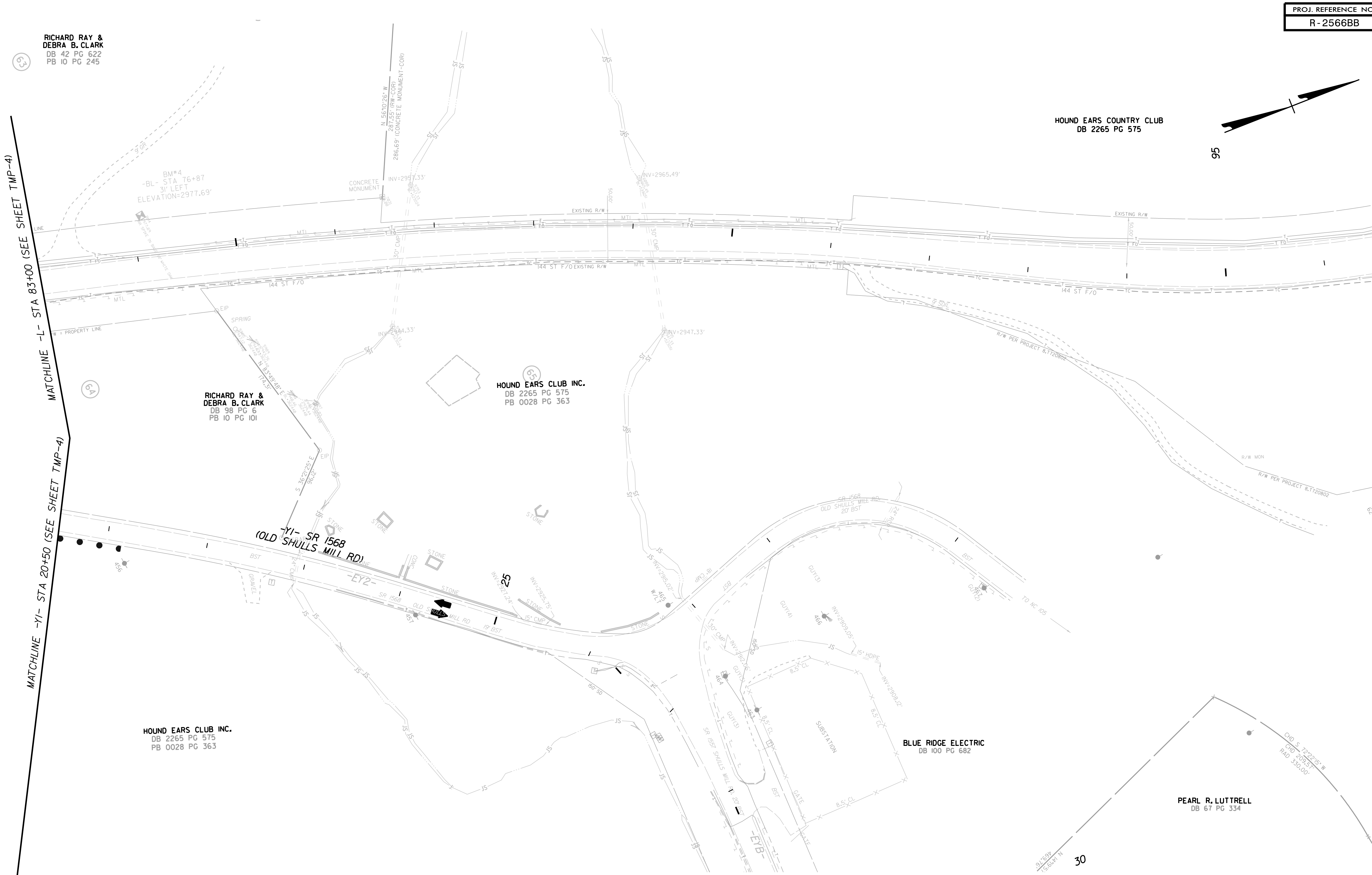
*TRAFFIC CONTROL
OVERVIEW
PHASE I*

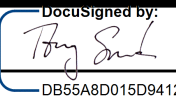
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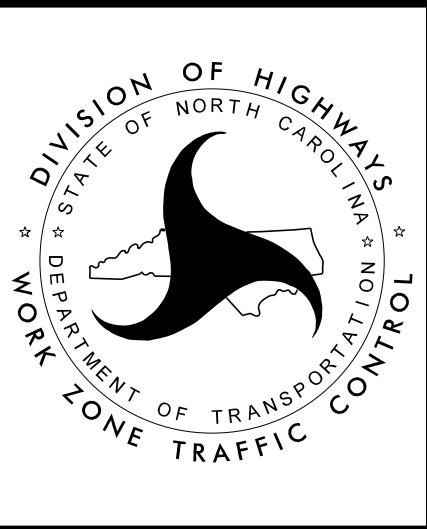
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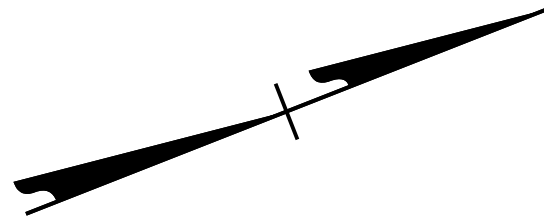
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TRAFFIC CONTROL
OVERVIEW
PHASE I

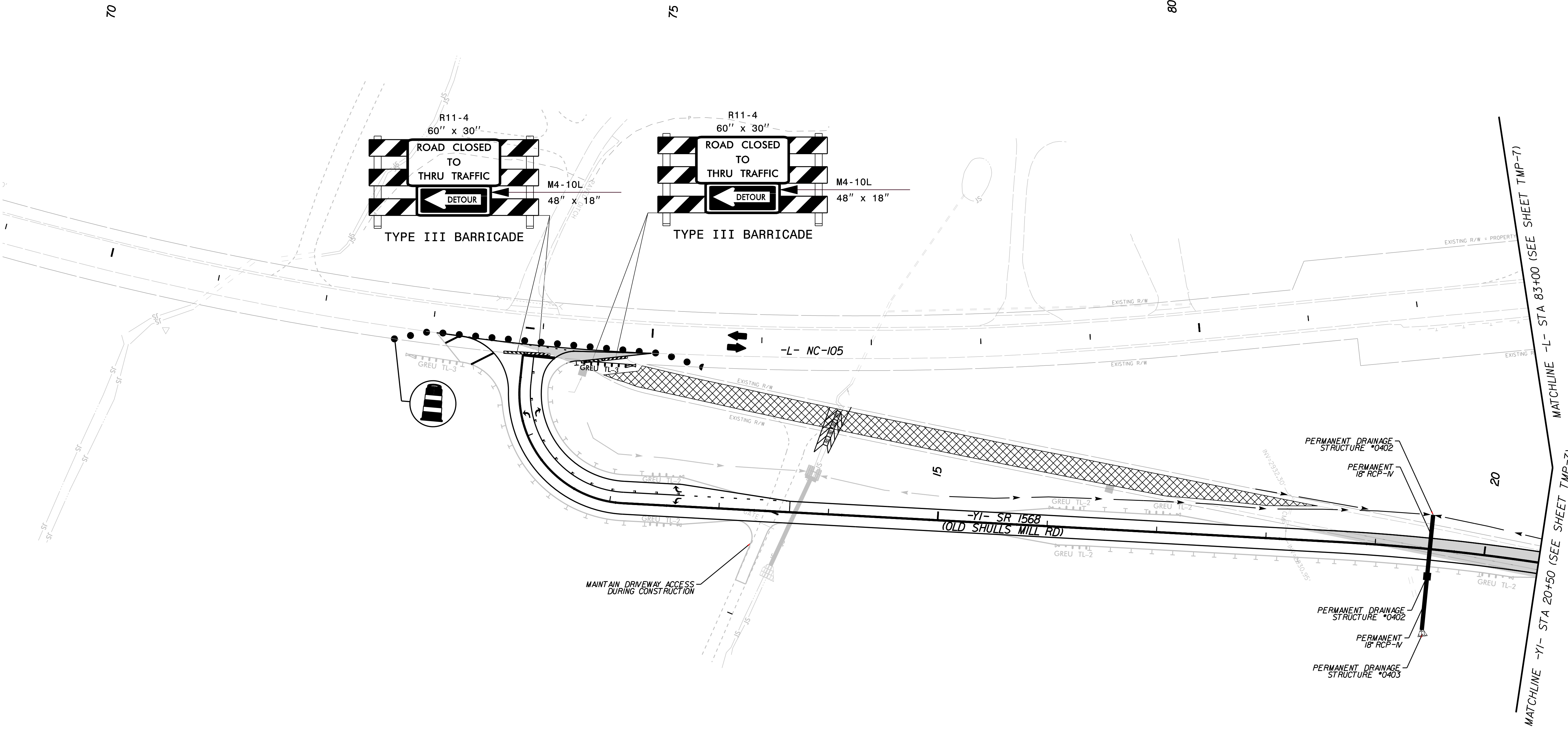
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R-2566BB	TMP-6

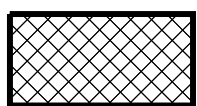


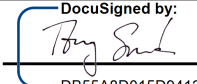
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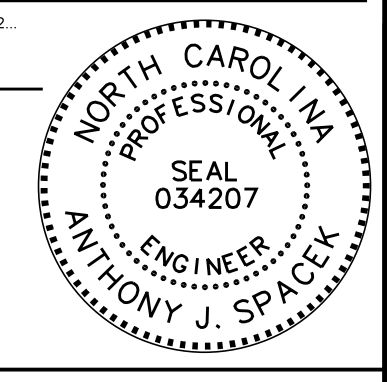
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-  WORK AREA
-  REMOVAL

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TRAFFIC CONTROL
OVERVIEW
PHASE 2

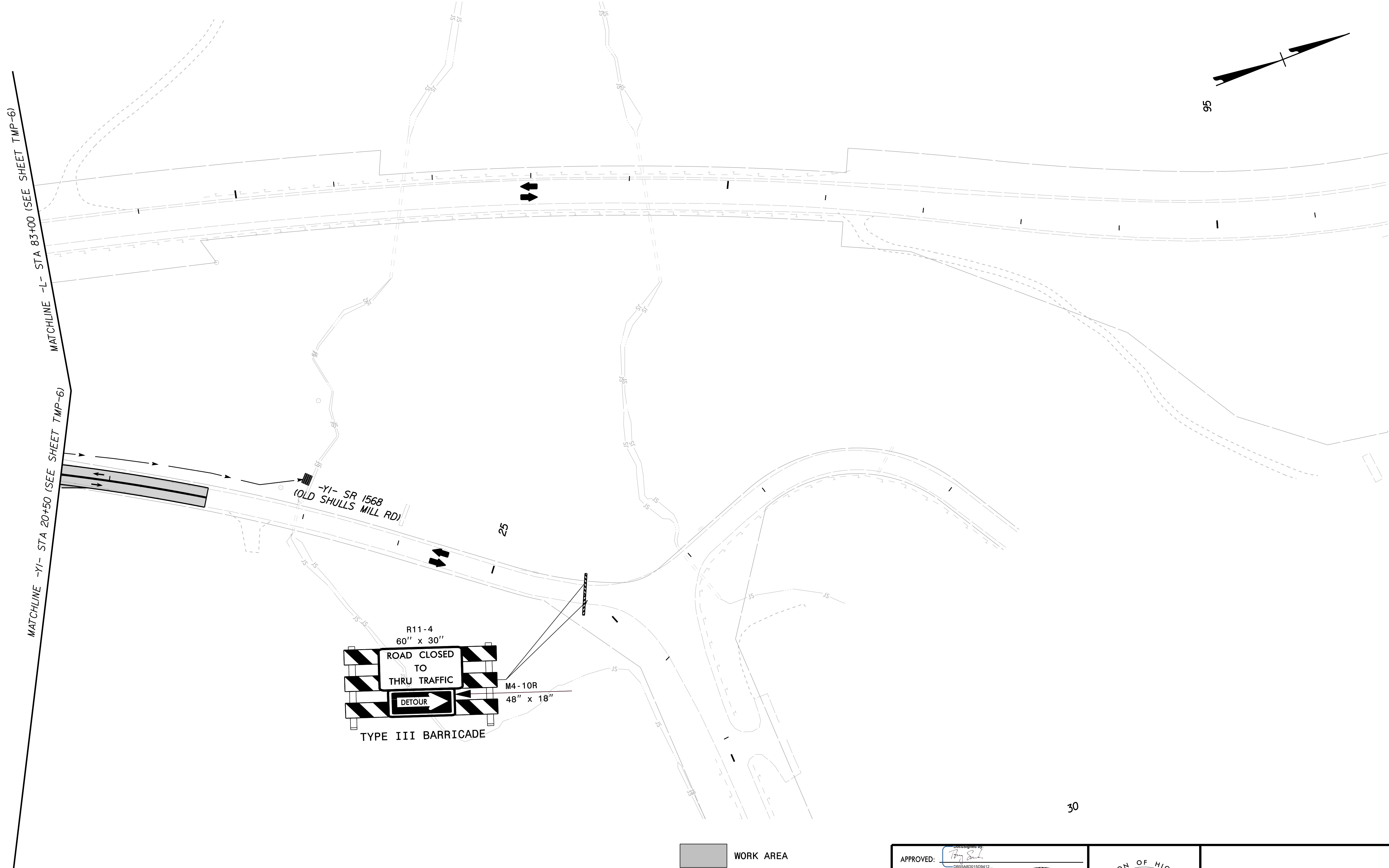
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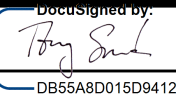
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R - 2566BB	TMP - 7

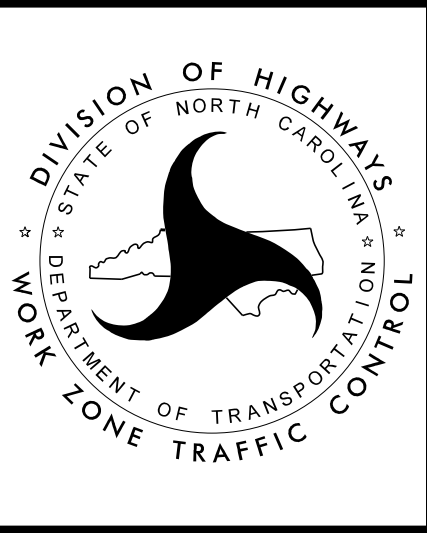


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TRAFFIC CONTROL
OVERVIEW
PHASE 2

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T.I.P.: R-2566BB

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
WATAUGA COUNTY

LOCATION: SR 1568 (OLD SHULLS MILL RD) FROM NC 105 TO WEST OF
SR 1557 (SHULLS MILL ROAD)

INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
PMP - 1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2 THRU PMP-3	PAVEMENT MARKING PLAN SHEETS

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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:

<u>STD. NO.</u>	<u>TITLE</u>
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

PAVEMENT
MARKING
SCHEDULE

<u>SYMBOL</u>	<u>DESCRIPTION</u>
	FINAL PAVEMENT MARKINGS
	POLYUREA (4", 30 MILS)
W1	WHITE EDGELINE
W2	WHITE SOLID LANE LINE
W4	WHITE 3' - 9'/SP MINI-SKIP
W5	WHITE 2' - 6'/SP MINI-SKIP
W13	YELLOW DOUBLE CENTER
	THERMOPLASTIC (8", 90 MILS)
T41	WHITE DIAGONAL
	THERMOPLASTIC (24", 90 MILS)
T61	WHITE STOPBAR
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
T70	LEFT TURN ARROW
T71	RIGHT TURN ARROW
	PAVEMENT MARKER SYMBOLS
ME	YELLOW & YELLOW
MF	CRYSTAL & RED

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 ON THE FINAL SURFACE AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL	POLYUREA & THERMOPLASTIC	SNOWPLOWABLE

- 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 ARROWS, STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

PLAN PREPARED BY: Kimley-Horn and Associates

Tony Spacek, P.E. PROJECT DESIGN ENGINEER

Sydney Rosenblum, P.E. DESIGNER

Kimley»Horn

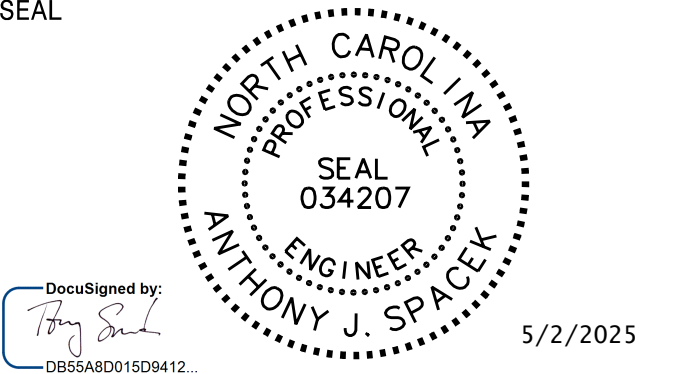
TIP NO. SHEET NO.

R - 2566BB PMP - 1

APPROVED:

DATE:

SEAL



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UNLESS ALL SIGNATURES COMPLETED

Kimley-Horn
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202
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PROJECT REFERENCE NO. R-2566BB SHEET NO. PMP-2
RW SHEET NO.
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034207
ANTHONY J. SPACEK
7/25/2025
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NAD 83/NSRS 2007

70 75 80

-L- STA 73+04
TIE TO EXISTING
PAVEMENT MARKINGS

-L- STA 75+00
TIE TO EXISTING
PAVEMENT MARKINGS

-L- NC-105

-Y1- STA 10+25

-Y1- STA 12+65

-Y1- STA 13+65

-Y1- SR 1568
(OLD SHULLS MILL RD)

GREU TL-2

GREU TL-3

T4

T6

T7

T70

T71

W1

W2

W4

W13

W5

15

20

CHLINE -Y1- STA 20+50 (SEE SHEET PMP-3)

MATCHLINE -L- STA 83+00 (SEE SHEET PMP-3)

PAVEMENT MARKER LEGEND	
	- CRYSTAL / RED PAVEMENT MARKER
	- YELLOW / YELLOW PAVEMENT MARKER

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

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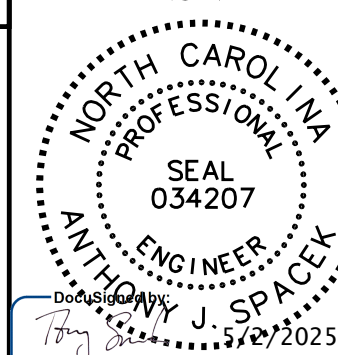
PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

PMP-3

RW SHEET NO.

ROADWAY DESIGN
ENGINEER

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

95

NAD 83/NSRS 2007

--- PMP-2)

MATCHLINE -YI- STA 20+50 (SEE SHEET PMP-2)

BM#4
BL- STA 84+10
50' LEFT
ELEVATION=2977.69'
BM#4

-L- NC-105

-Y1- STA 22+00
TIE TO EXISTING
PAVEMENT PARKINGS

-YI- SR 1568,
(OLD SHULLS MILL RD)

-Y2- SR 1568
(OLD SHULLS MILL RD)

25

30

PAVEMENT MARKING LINES

W1	-	POLYUREA	(4", 30 MILS)
W2	-	POLYUREA	(4", 30 MILS)
W4	-	POLYUREA	(4", 30 MILS)
W5	-	POLYUREA	(4", 30 MILS)
W13	-	POLYUREA	(4", 30 MILS)
T41	-	THERMOPLASTIC	(8", 90 MILS)
T61	-	THERMOPLASTIC	(24" WHITE, 90 MILS)

EDGE LINE
SOLID LANE LINE
3' X 9'/SP MINI-SKIP
2' X 6'/SP MINI-SKIP
DOUBLE CENTER LINE
WHITE DIAGONAL
STOP BAR

PAVEMENT MARKING SYMBOLS/CHARACTERS

T70 -	THERMOPLASTIC (WHITE, 90 MILS)	LEFT TURN ARROW
T71 -	THERMOPLASTIC (WHITE, 90 MILS)	RIGHT TURN ARROW

PAVEMENT MARKER LEGEND

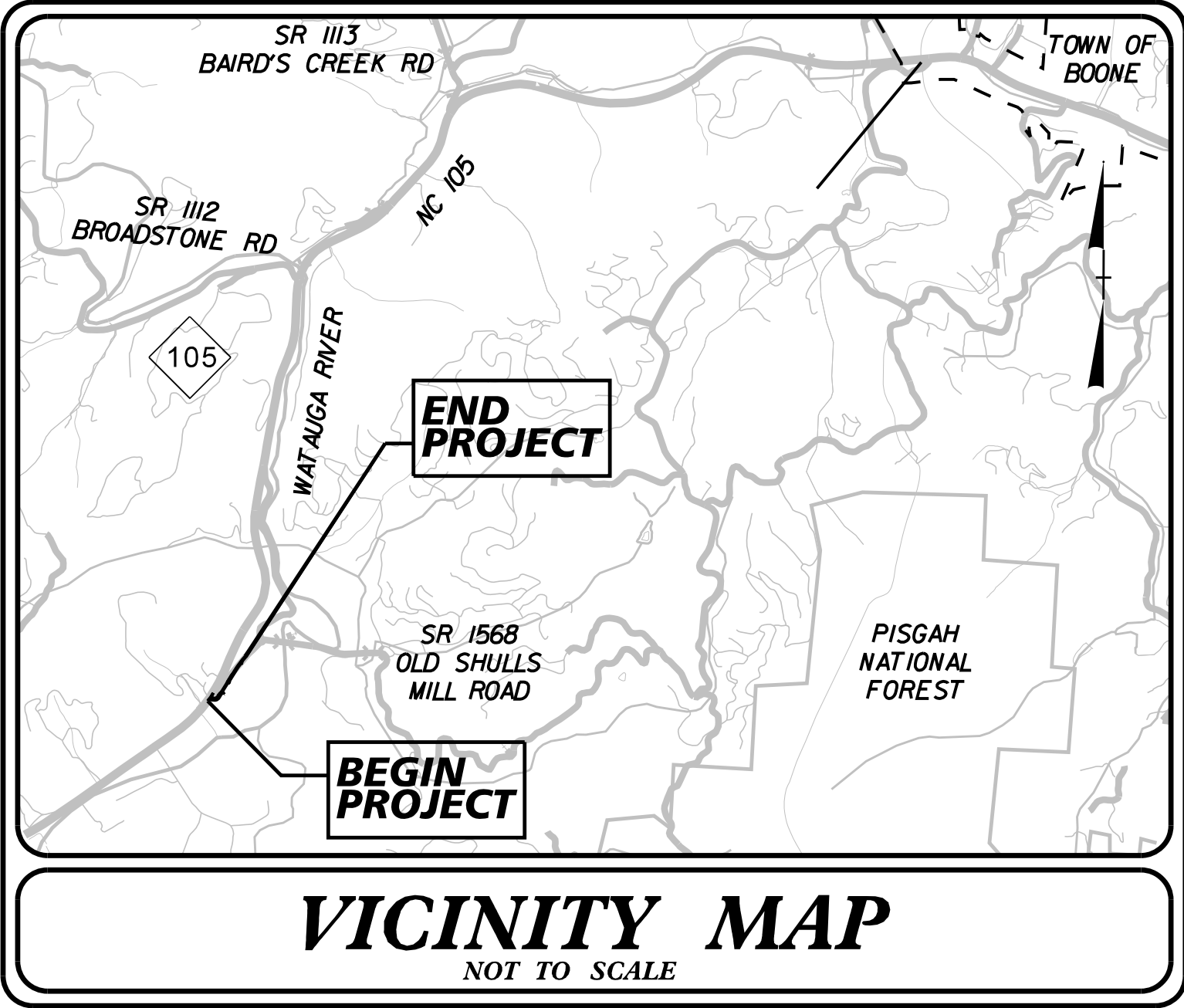
 - CRYSTAL / RED PAVEMENT MARKER

◆ - YELLOW / YELLOW PAVEMENT MARKER

REVISIONS

3/3/2025 K:\CHL_PR\01036212 - (R-2566)\Traffic\Signing\CADD\Pavement Marking Plans\R-2566BB_pmp_3.dgn

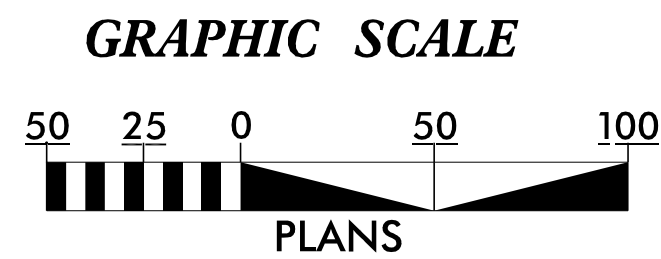
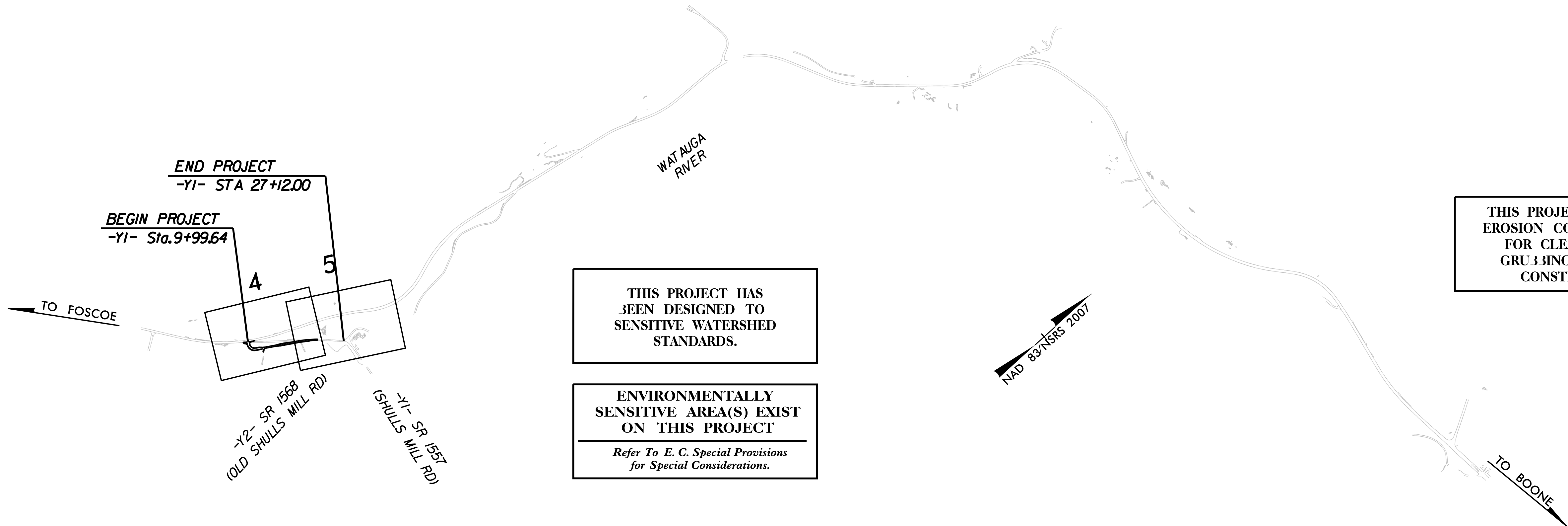
TIP PROJECT: R-2566BB



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

LOCATION: SR 1568 (OLD SHULLS MILL RD) FROM NC 105 TO
WEST OF SR 1557 (SHULLS MILL RD)

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Kimley»Horn

NO LICENSE #F-0102
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202
PHONE: (704) 333-5131

Prepared in the Office of:
KIMLEY-HORN AND ASSOCIATES

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202
PHONE: (704) 333-5131

Designed by:

Spencer Green, PE
NAME

4244
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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

EC-2

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				
1632.02	Type B		1636.03	Excelsior Wattle Barrier	
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	

5/14/99

K:\CHL_PRA\1036212 - (R-2566)\Erosion Control\Plan Sheets\R-2566BB_ec_psh_02&03.dgn

3/27/2025

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

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200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

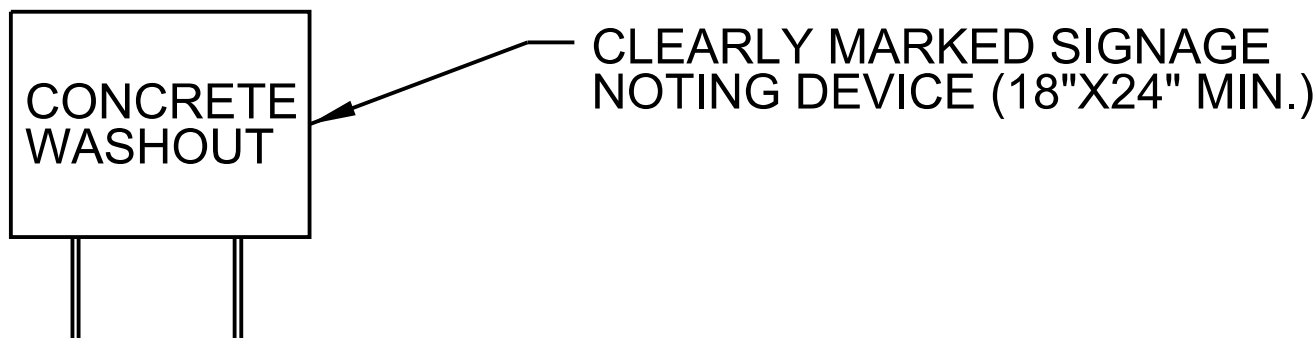
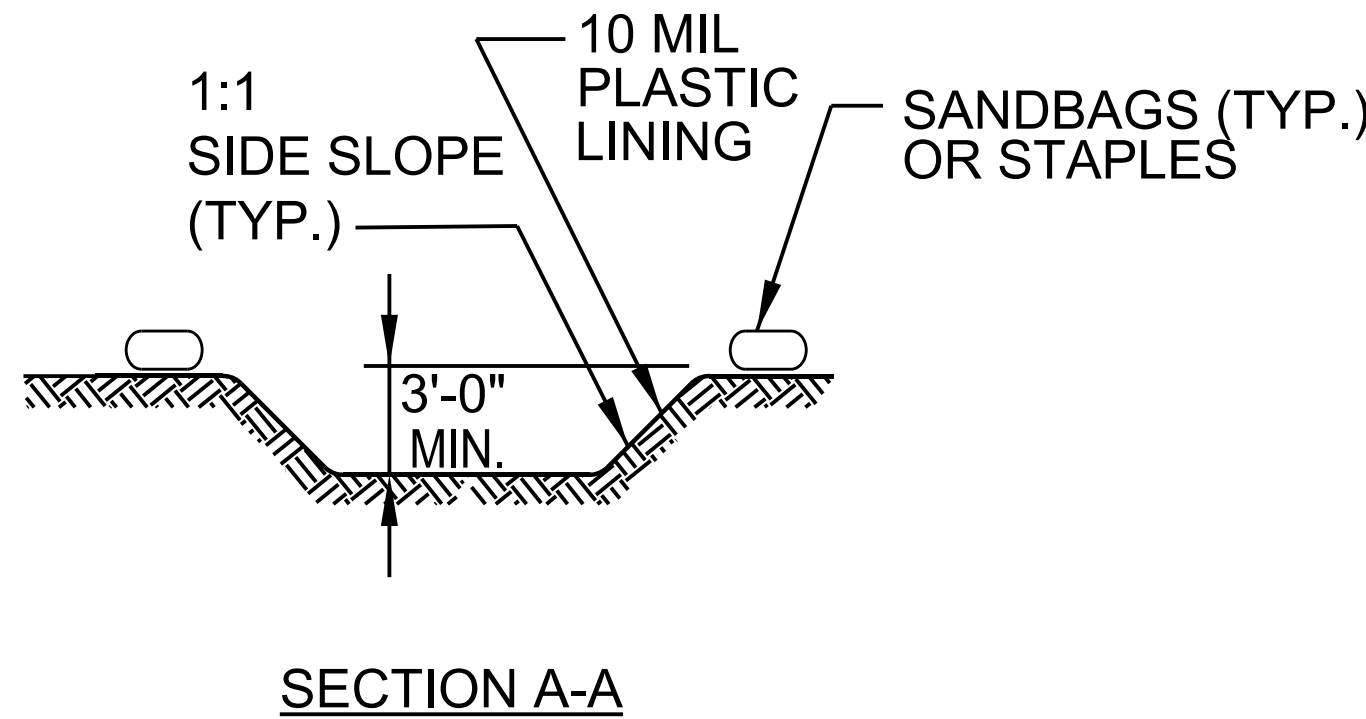
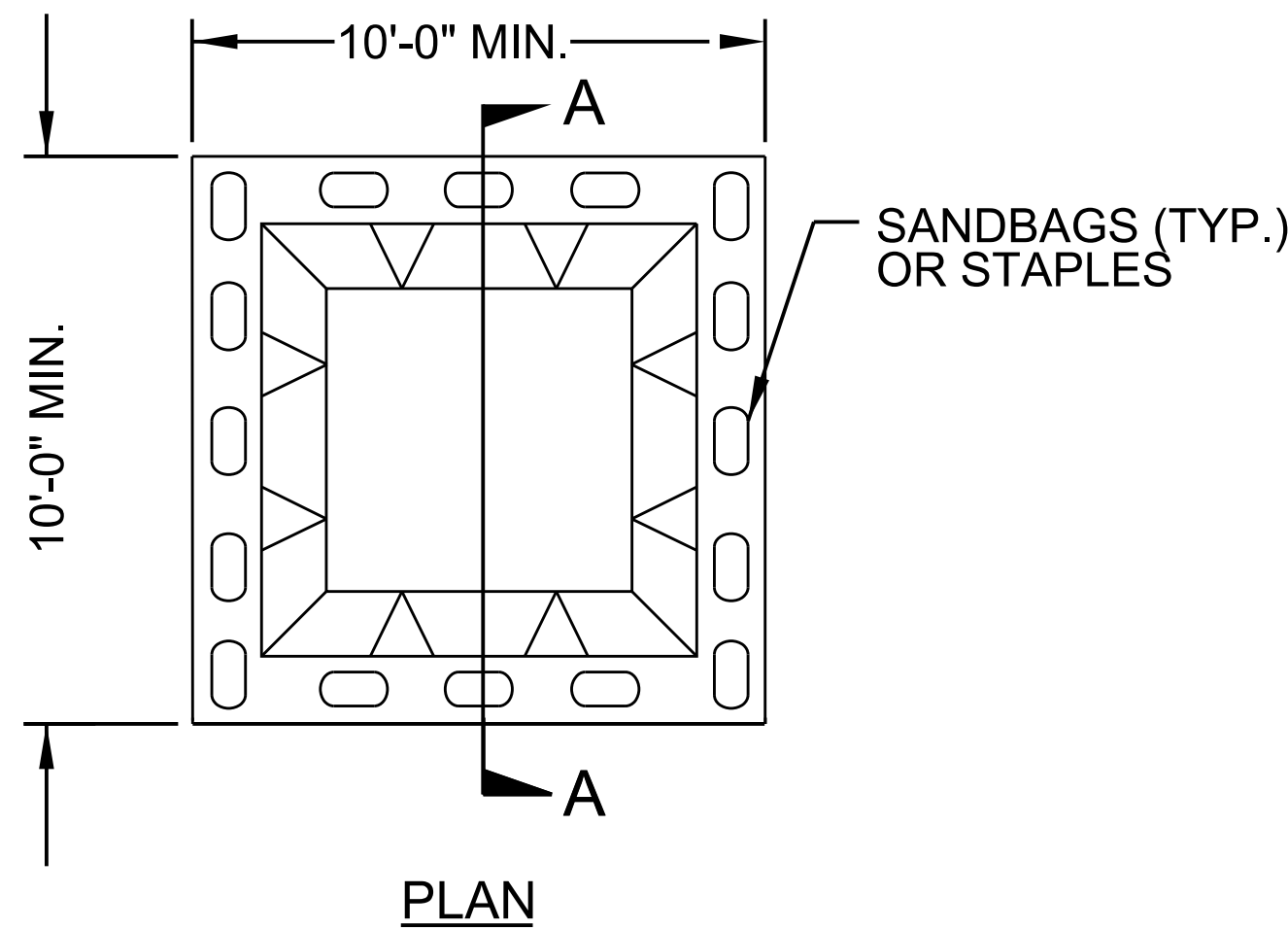
CONST. REV.

PROJECT REFERENCE NO.

R-2566BB

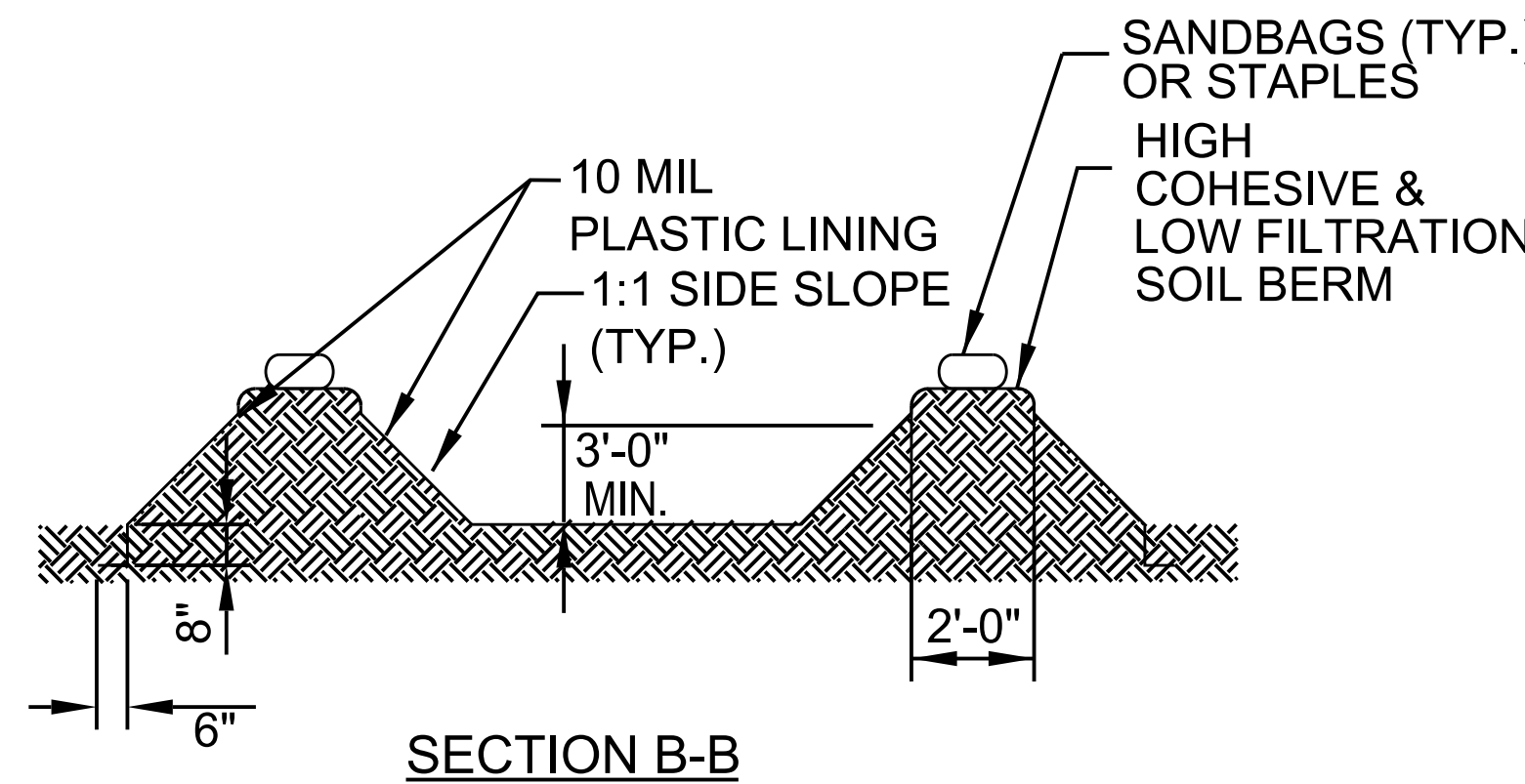
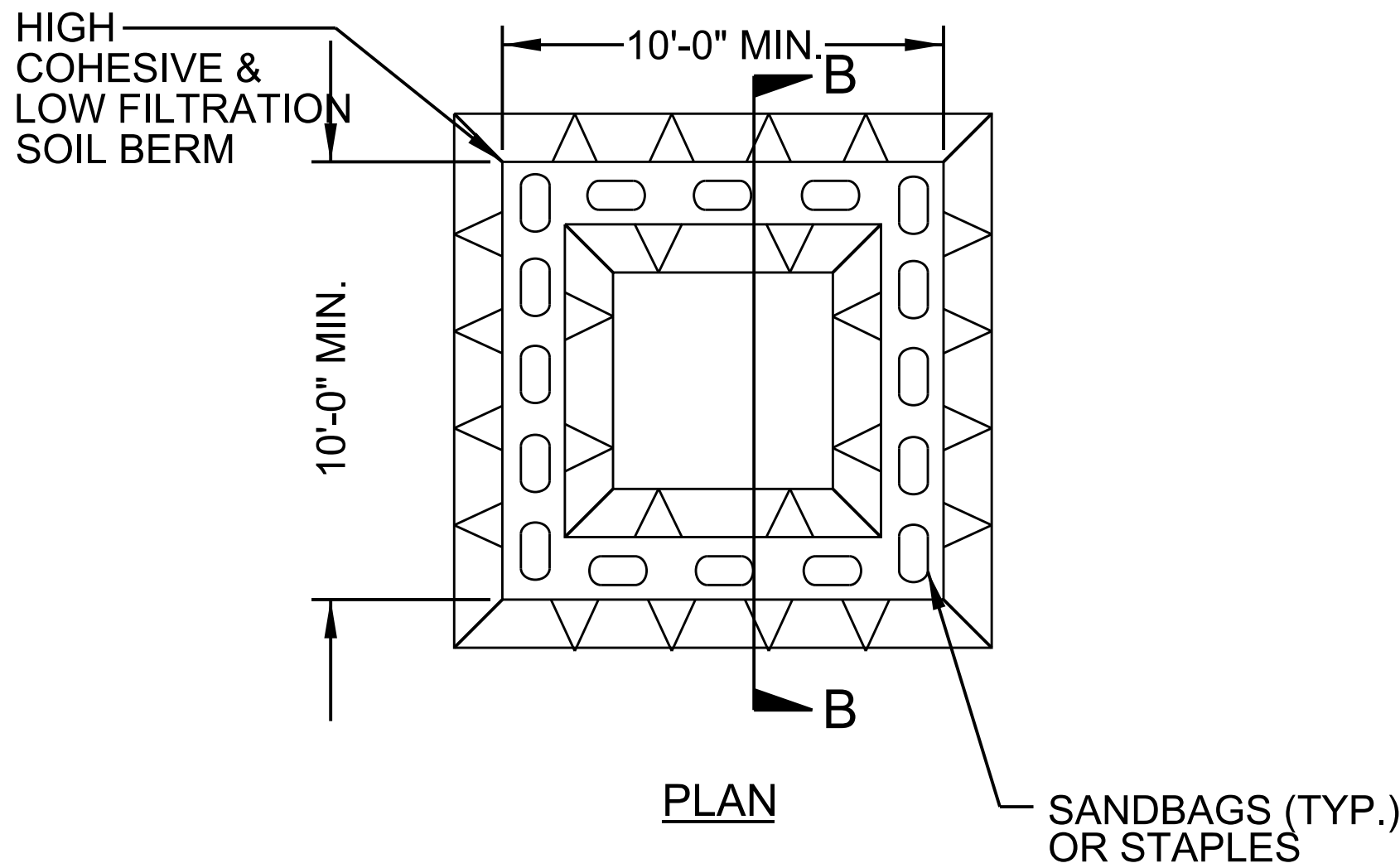
SHEET NO.

EC-2A



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.

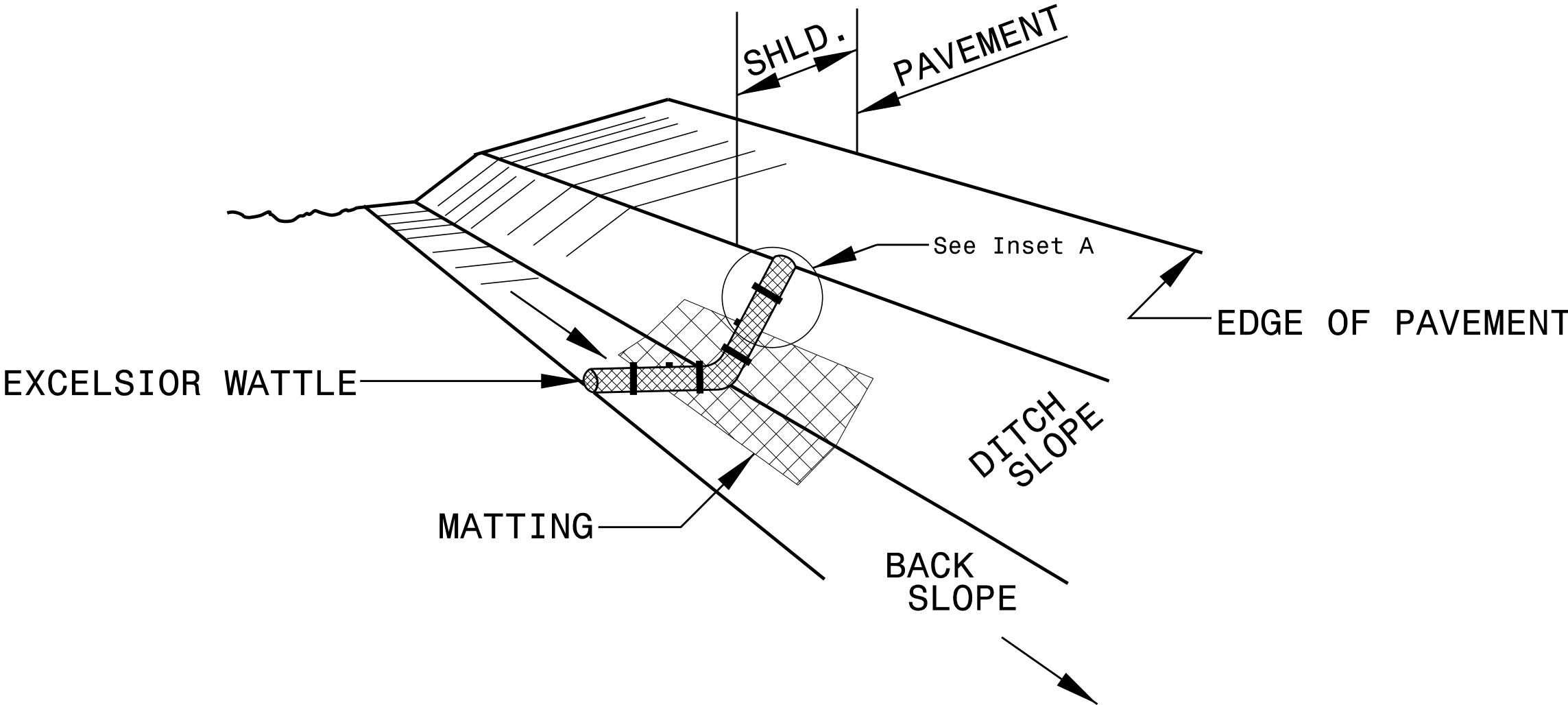


ABOVE GRADE WASHOUT STRUCTURE

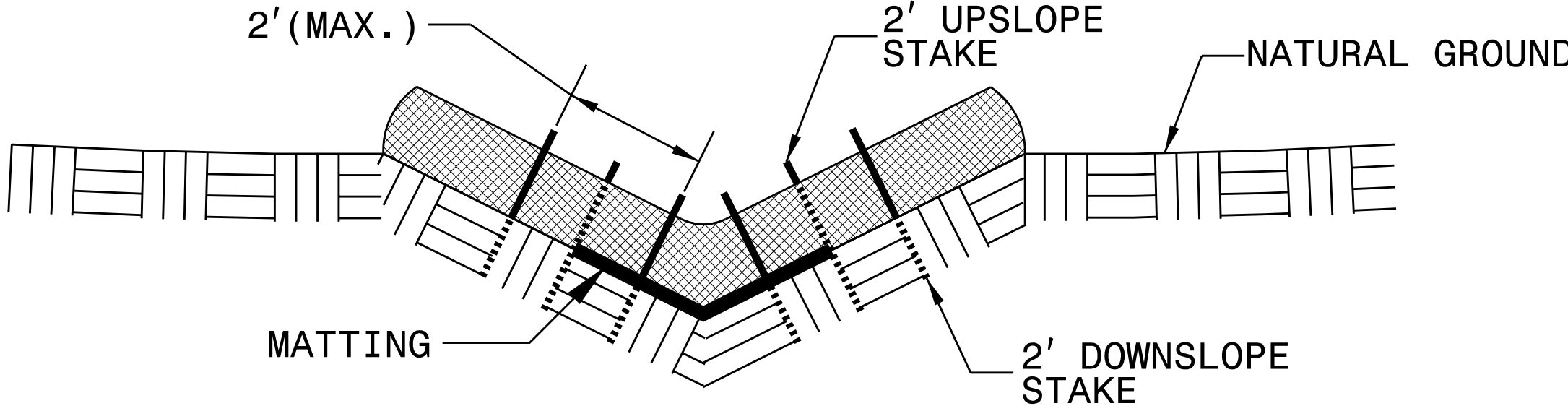
- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY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

PROJECT REFERENCE NO.		SHEET NO.
R-2566BB		EC-2B
Kimley»Horn 200 SOUTH TRYON, SUITE 200 CHARLOTTE, N.C. 28202 RIGHT-OF-WAY REV. CONST. REV.		

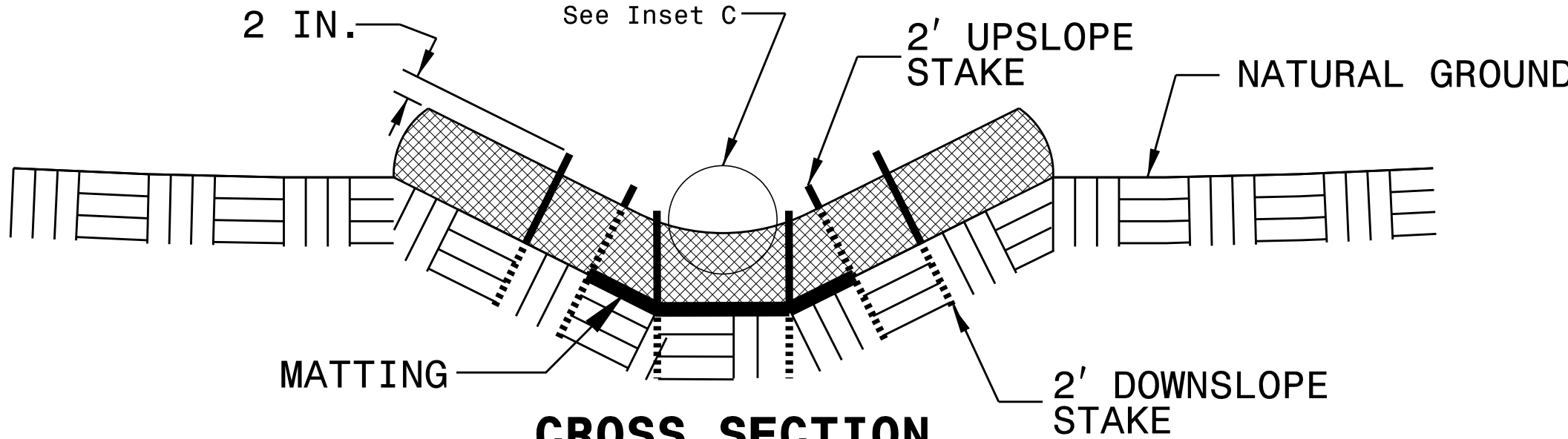
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



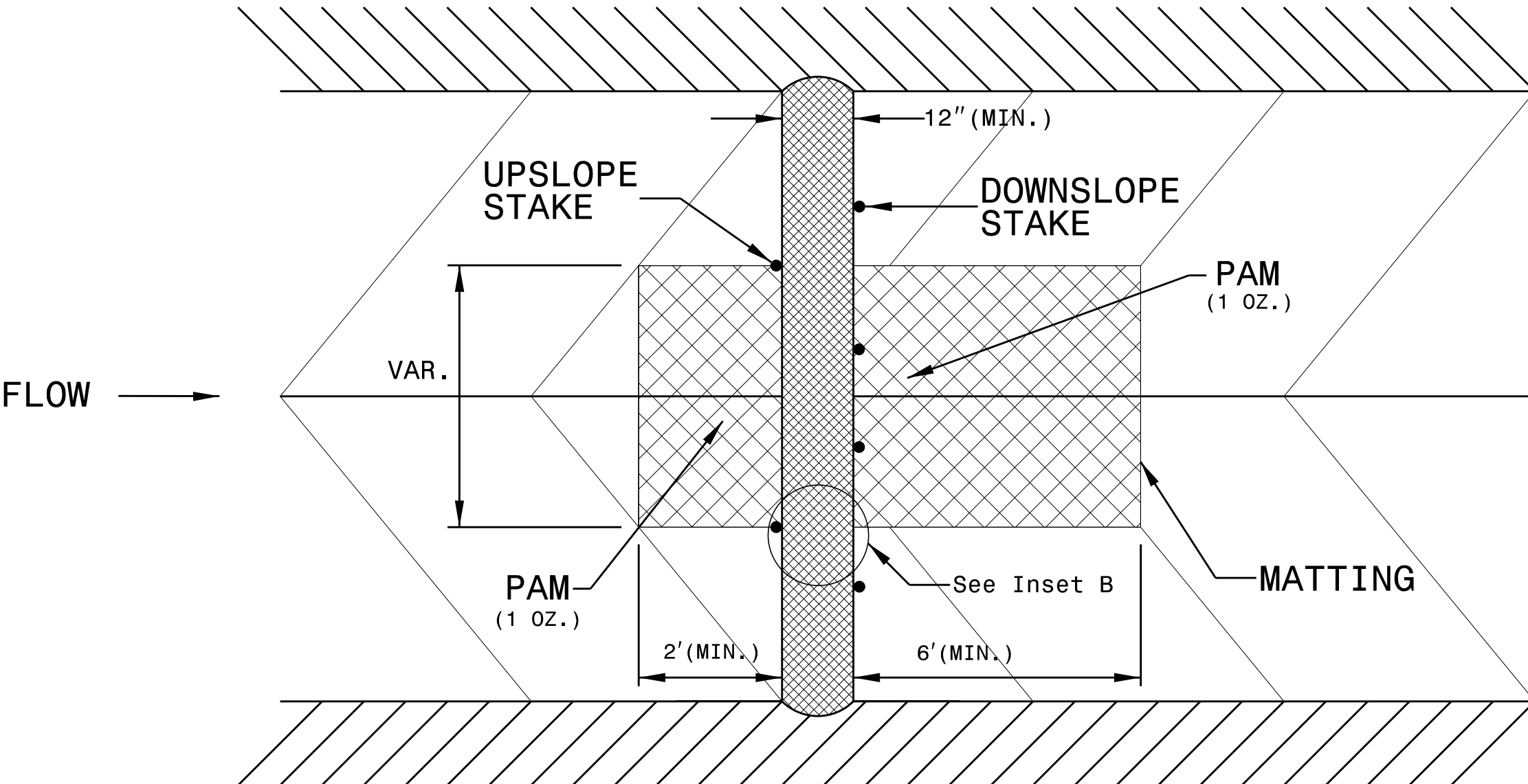
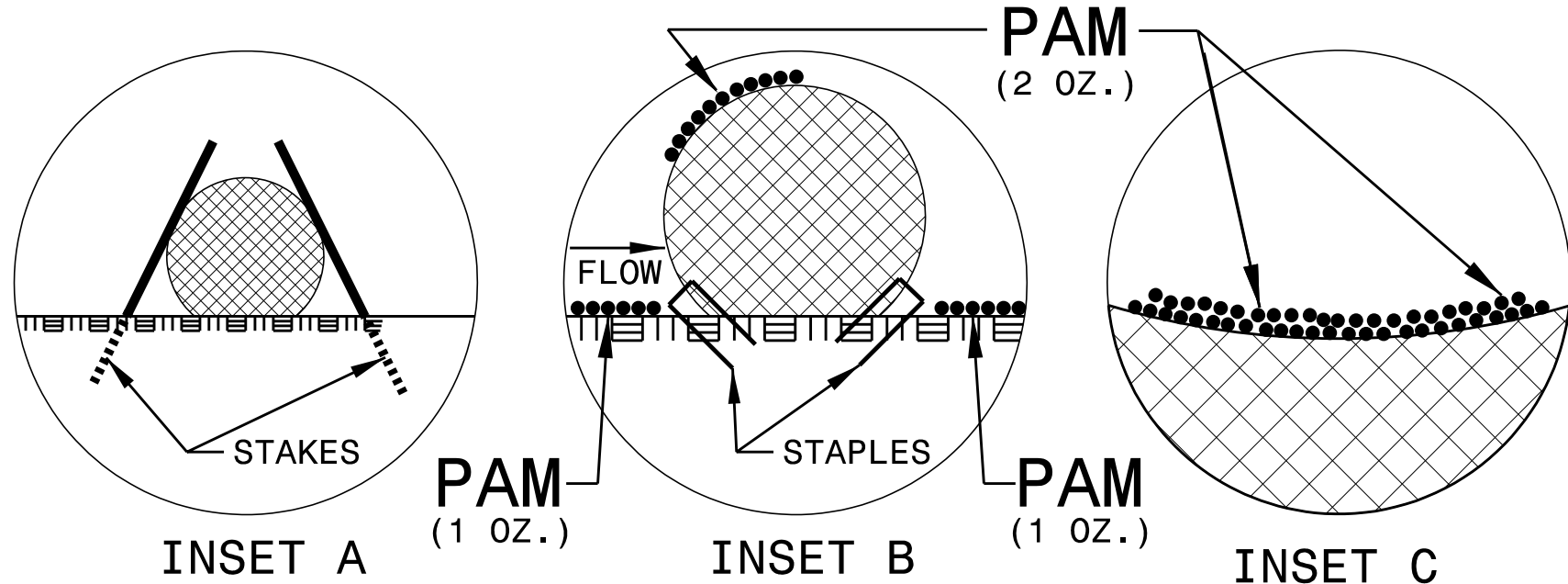
CROSS SECTION
VEE DITCH



CROSS SECTION
TRAPEZOIDAL DITCH

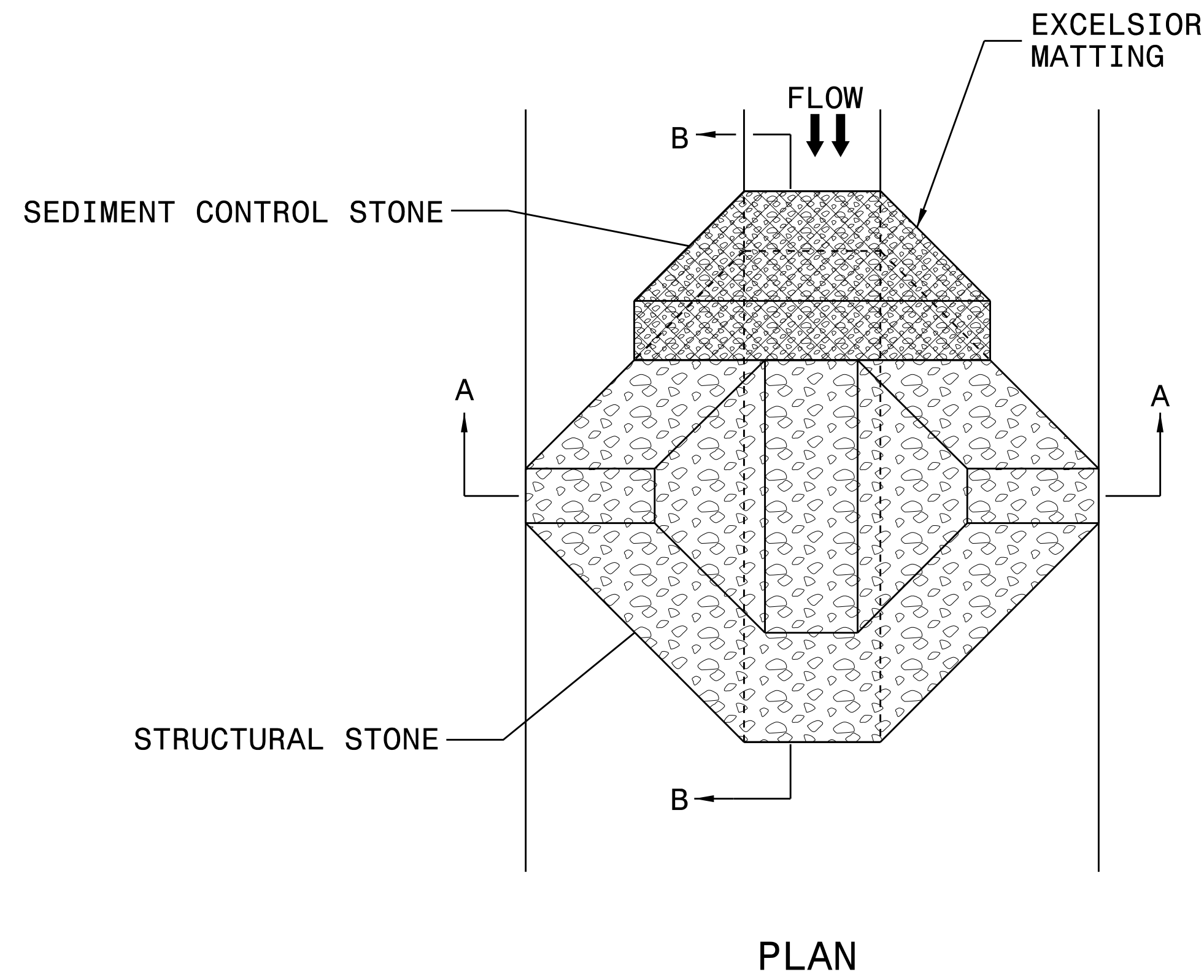
NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



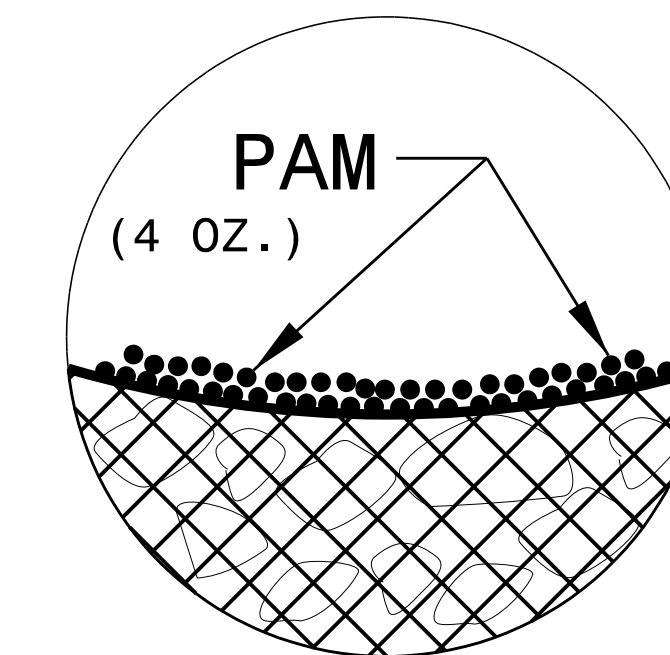
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

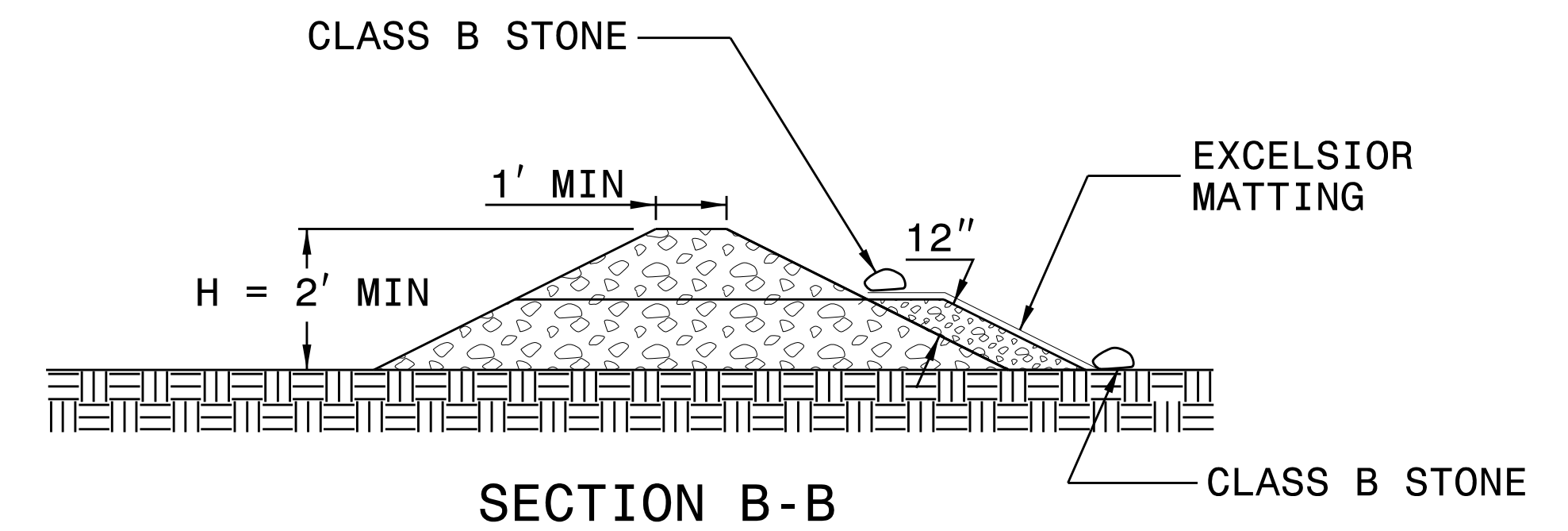
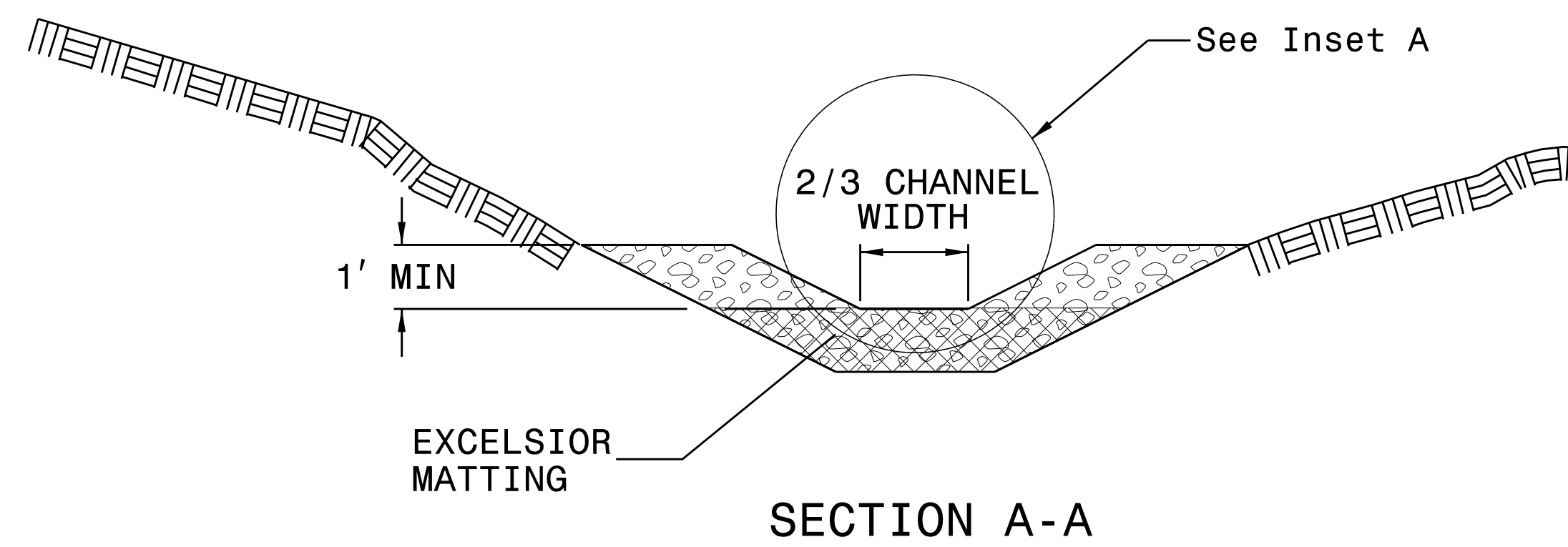
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



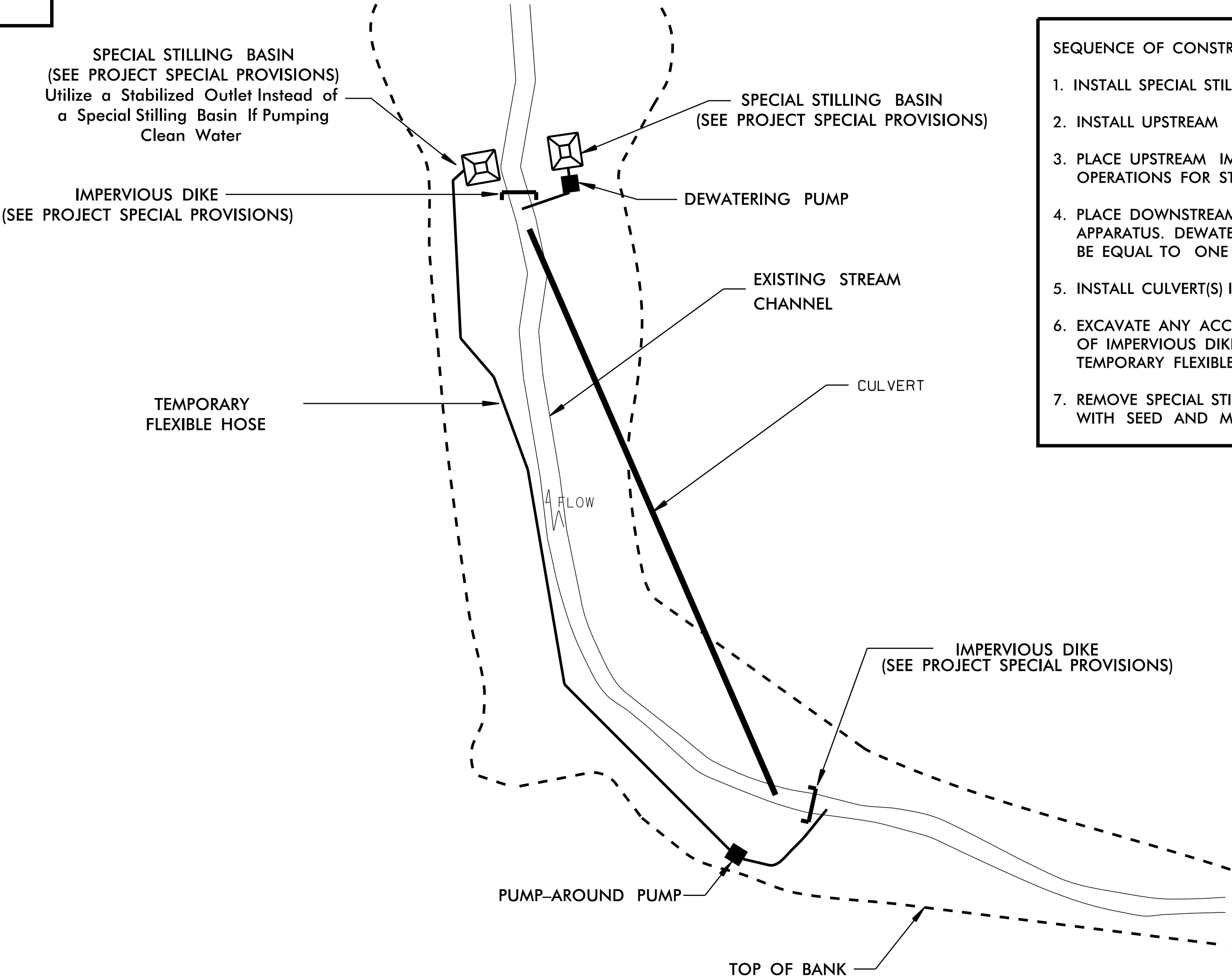
INSET A



NOT TO SCALE

EXAMPLE OF PUMP-AROUND OPERATION

- NOTES:
- 1) All excavation shall be performed in only dry or isolated areas of the work zone.
 - 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
 - 3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
 - 4) Pumps and hoses shall be of sufficient size to dewater the work area.
 - 5) All erosion control measures for the pump-around must be located within the permitted stream and buffer limits of impact.



- SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA
- 1. INSTALL SPECIAL STILLING BASIN(S).
 - 2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
 - 3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
 - 4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
 - 5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
 - 6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
 - 7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

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200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.	SHEET NO.
R-2566BB	EC-3

STRAW MATTING FOR EROSION CONTROL (DITCHES)

[illegible][illegible]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

EC-3A

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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

5/14/99

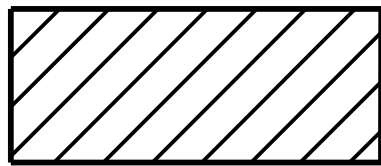
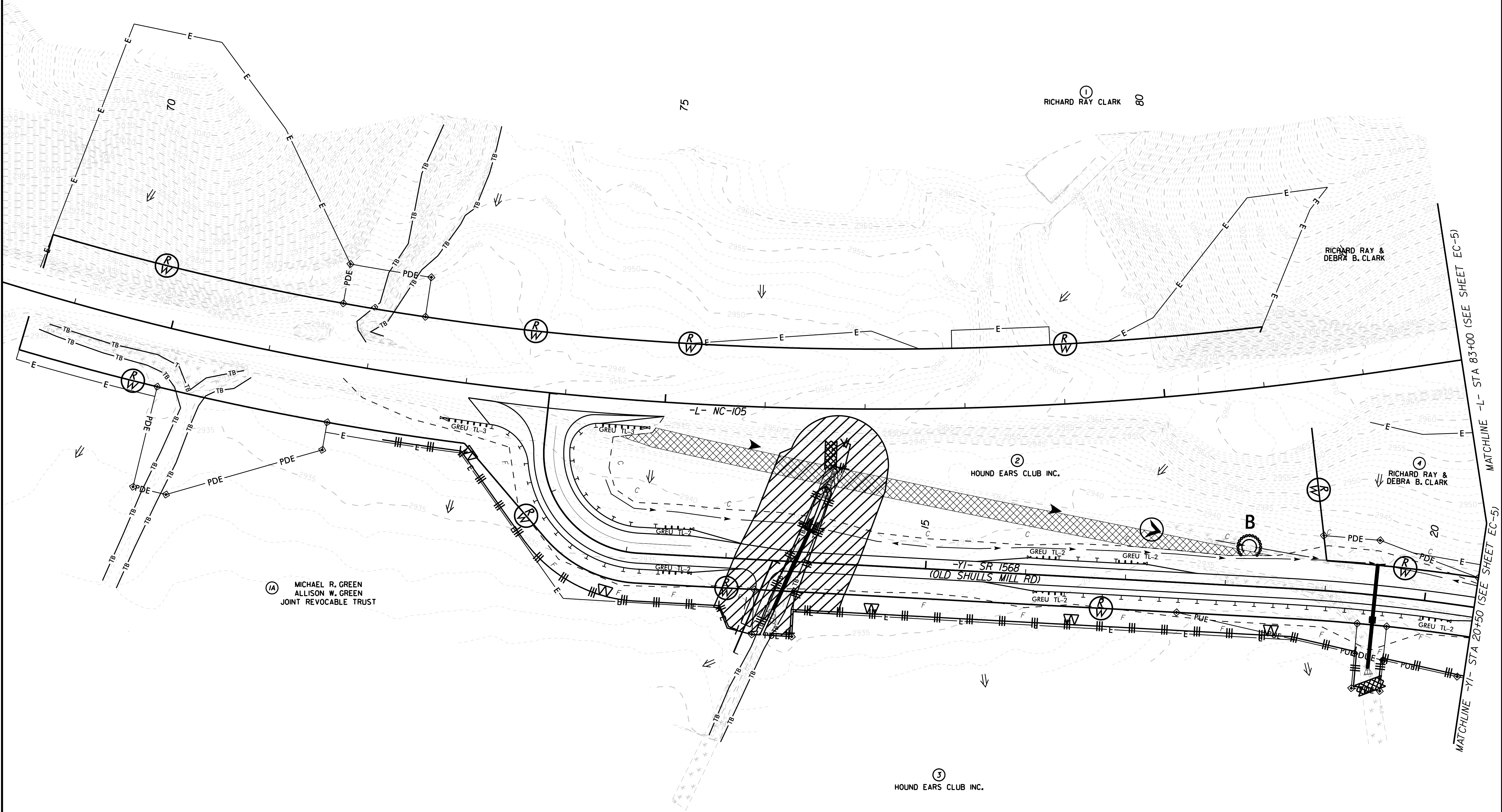
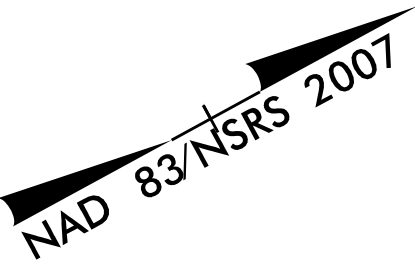
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3/3/2025

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

Kimley»Horn
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.	SHEET NO.
R-2566BB	EC-4/CONST.4
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

5/14/99

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3/3/2025

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

RICHARD RAY &
DEBRA B. CLARK

BM#4
-BL- STA. 84+10
50' LEFT
ELEVATION=2977.69'
BM#4

RICHARD RAY &
DEBRA B. CLARK

HOUD EARS CLUB INC.

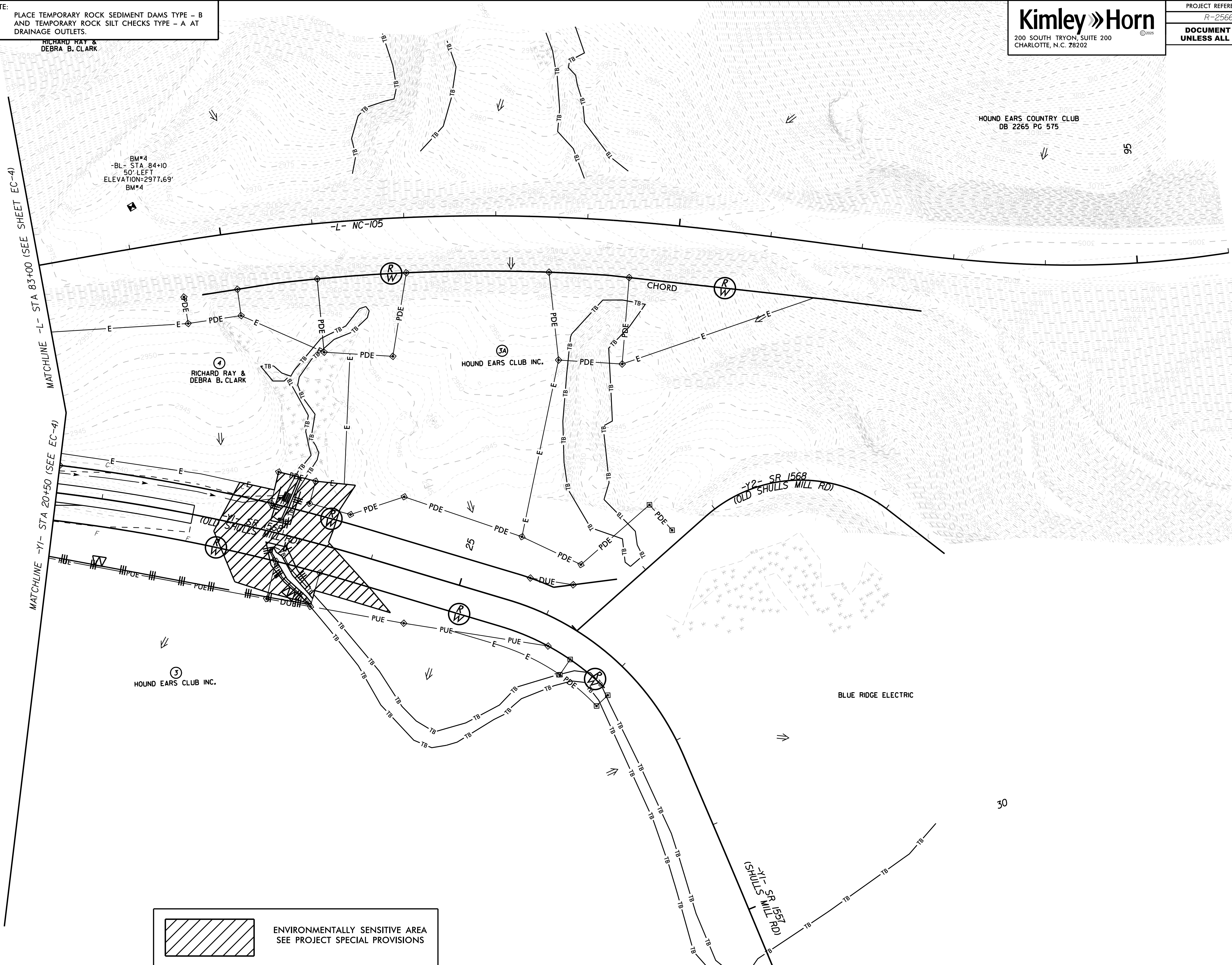
HOUD EARS CLUB INC.

BLUE RIDGE ELECTRIC

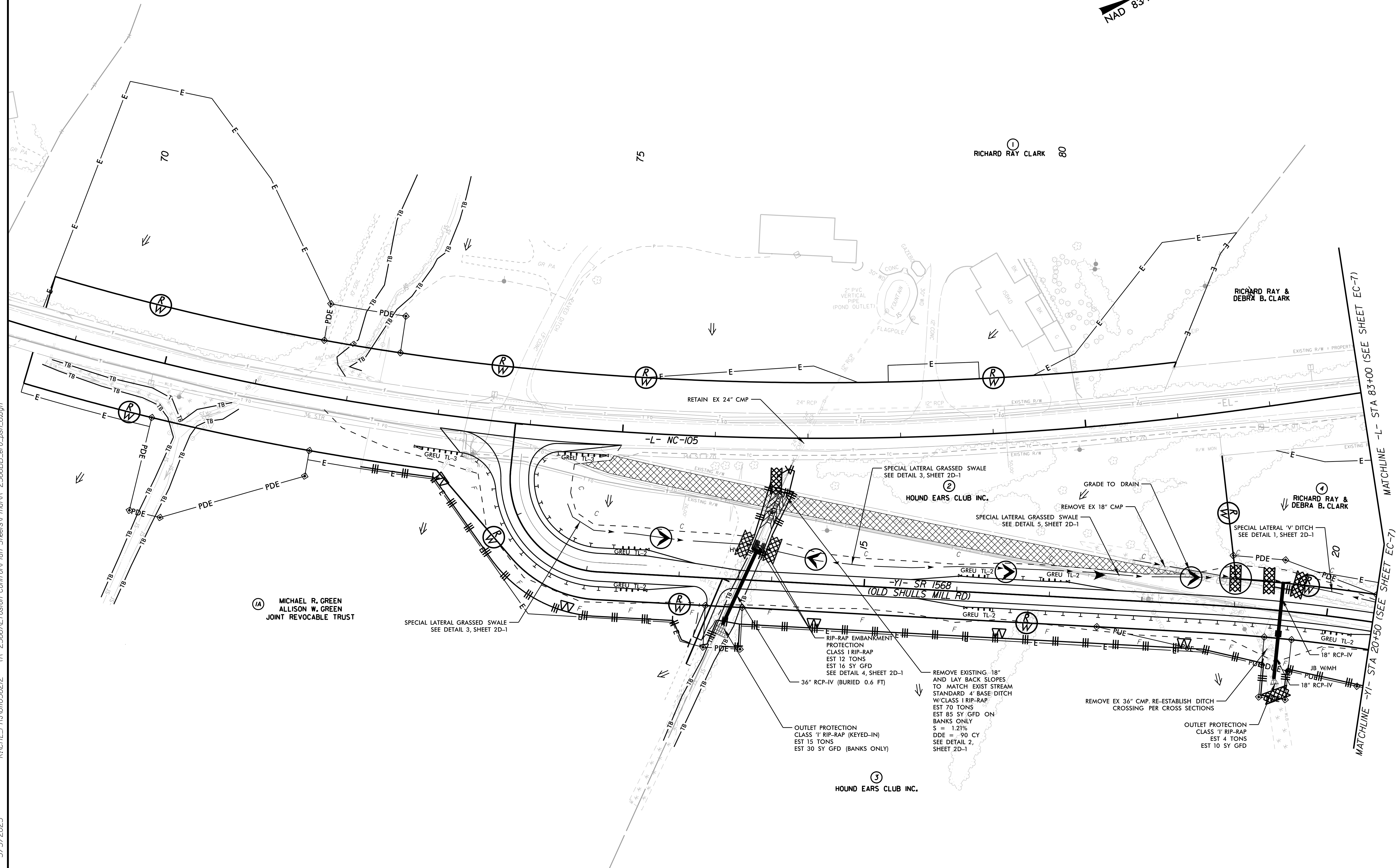
Kimley»Horn
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.	SHEET NO.
R-2566BB	EC-5/CONST.5
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83/NSRS 2007



NAD 83/NSRS 2007



5/14/99

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3/3/2025

RICHARD RAY &
DEBRA B. CLARK

BM#4
BL- STA 84+10.1
50' LEFT
ELEVATION=2977.69'
BM#4
ELEVATION=2977.69'

CONCRETE
MONUMENT

-L- NC-105

HOUND EARS CLUB INC.

RICHARD RAY &
DEBRA B. CLARK

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 1, SHEET 2D-1

RIP-RAP EMBANKMENT
PROTECTION
CLASS 1 RIP-RAP
EST 5 TONS
EST 10 SY GFD
SEE DETAIL 4, SHEET 2D-1

RETAIN EX 24" CMP

HOUND EARS CLUB INC.

CHORD

-Y2- SR 1568
(OLD SHULLS MILL RD)

BLUE RIDGE ELECTRIC

HOUND EARS COUNTRY CLUB
DB 2265 PG 575

95

30

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.

R-2566BB

SHEET NO.

EC-7/CONST.5

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NAD 83/NSRS 2007

FINAL PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

T.I.P.: R-2566BB

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
WATAUGA COUNTY

LOCATION: SR 1568 (OLD SHULLS MILL RD) FROM NC 105 TO WEST OF
SR 1557 (SHULLS MILL ROAD)

TIP NO.
R - 2566BB

SHEET NO.
SIGN - 1

APPROVED: _____
DATE: _____

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
034207
ENGINEER
ANTHONY J. SPACEK

DocuSigned by:
Tony Spacek
DB55A8D015D9412

5/2/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- SIGNS FURNISHED BY CONTRACTOR
- 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.
- WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION, SIGNING, OR PAVEMENT MARKING. SEE TRAFFIC MANAGEMENT PLANS.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	7	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	12	L.F.
4108000000	904	SIGN ERECTION, TYPE E	1	EA.
4116100000	904	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	1	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE "E" SIGNS SHEET
SIGN-3 THRU SIGN-4	SIGNING PLAN SHEETS

PLAN PREPARED BY: Kimley-Horn and Associates

Tony Spacek P.E.	PROJECT DESIGN ENGINEER
Sydney Rosenblum P.E.	DESIGNER

Kimley»Horn

REVISIONS	

3/3/2025 K:\CHL_PRR\01036212 - (R-2566)\Traffic\Signing\CADD\Pavement Marking Plans\R-2566BB_sgn_2.dgn

401

QUANTITY REQ'D 1

STOP

30" X 30"
R1-1

ONE "U" POST PER SIGN

Kimley»Horn

200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO.
R-2566BB

SHEET NO.
SIGN-2

ROADWAY DESIGN
ENGINEER

NORTH CAROLINA
PROFESSIONAL
SEAL
034207
ENGINEER
ANTHONY J. SPACKER

DocuSign Envelope ID: 77A74402-5770-4000-8000-000000000000

3/3/2025

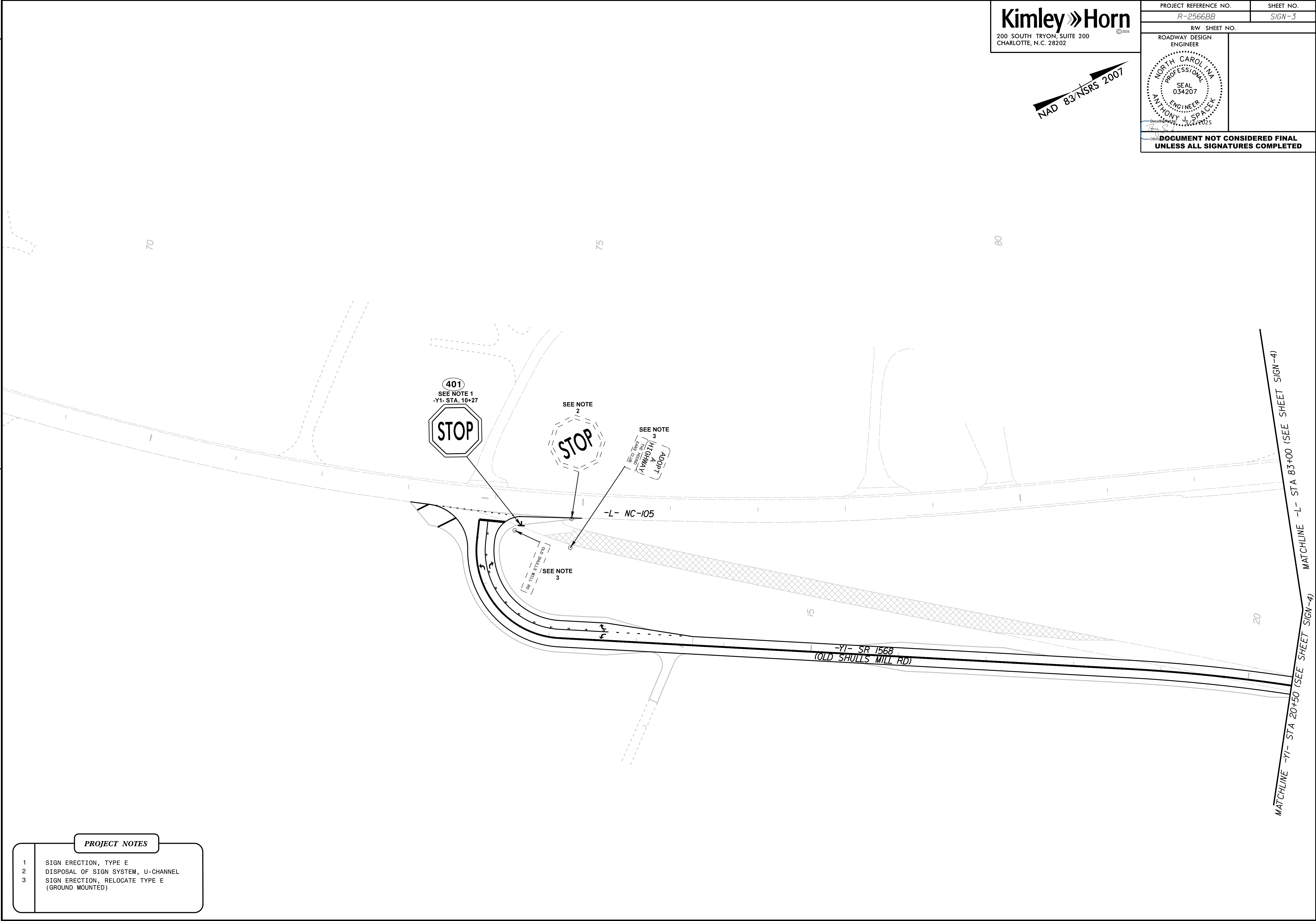
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TYPE "E" SIGNS

REVISIONS

3/3/2025 K:\CHL_PRR\01036212 - (R-2566)\Traffic\Signing\CADD\Pavement Marking Plans\R-2566BB_sgn_3.dgn

PROJECT NOTES	
1	SIGN ERECTION, TYPE E
2	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)



Kimley»Horn
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

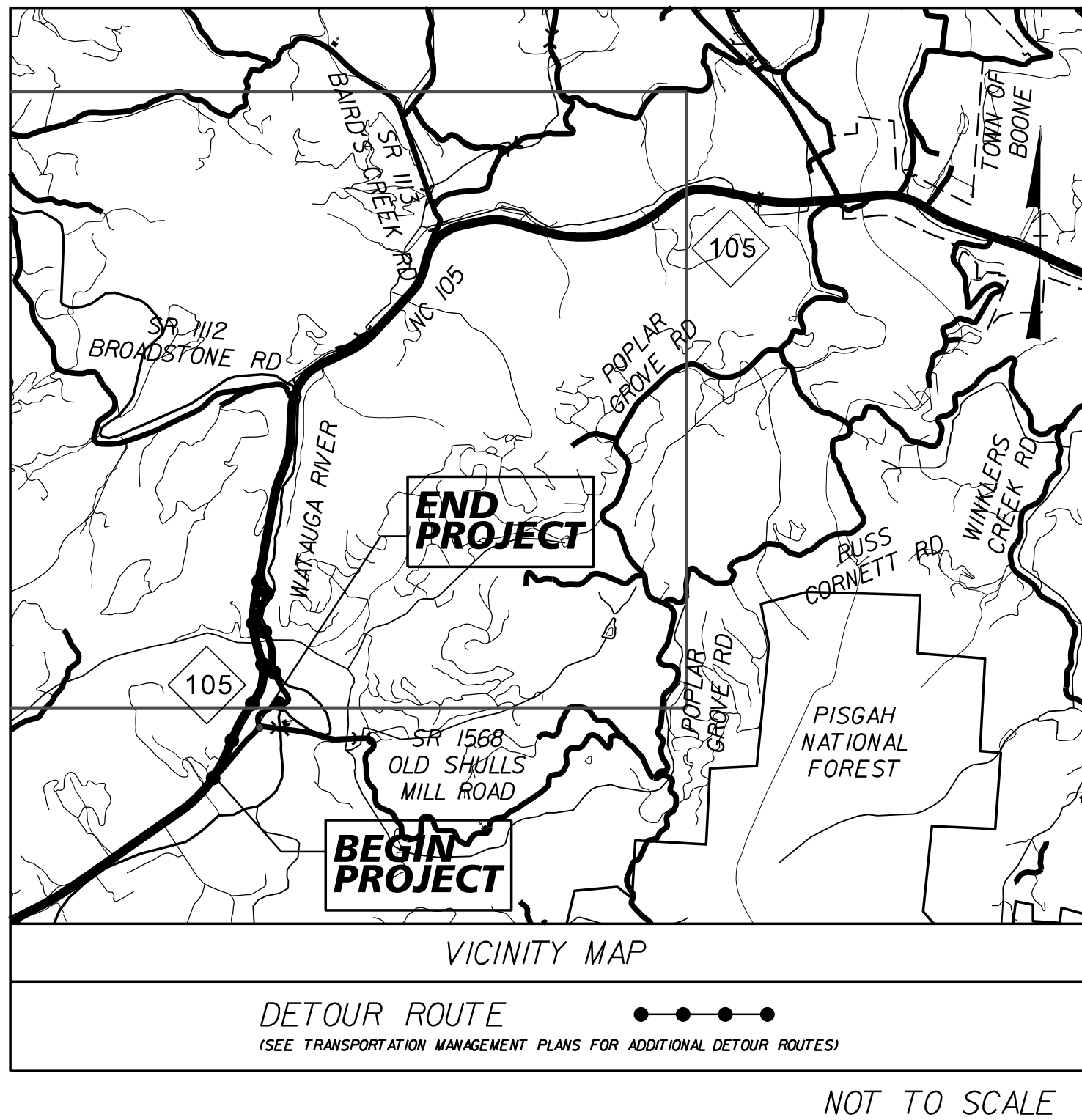
PROJECT REFERENCE NO. R-2566BB	SHEET NO. SIGN-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER ANTHONY J. SPACEK ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NAD 83/NSRS 2007

2/13/2025
JUSERNAME

CONTRACT: DK00329

TIP PROJECT: R-2566BB



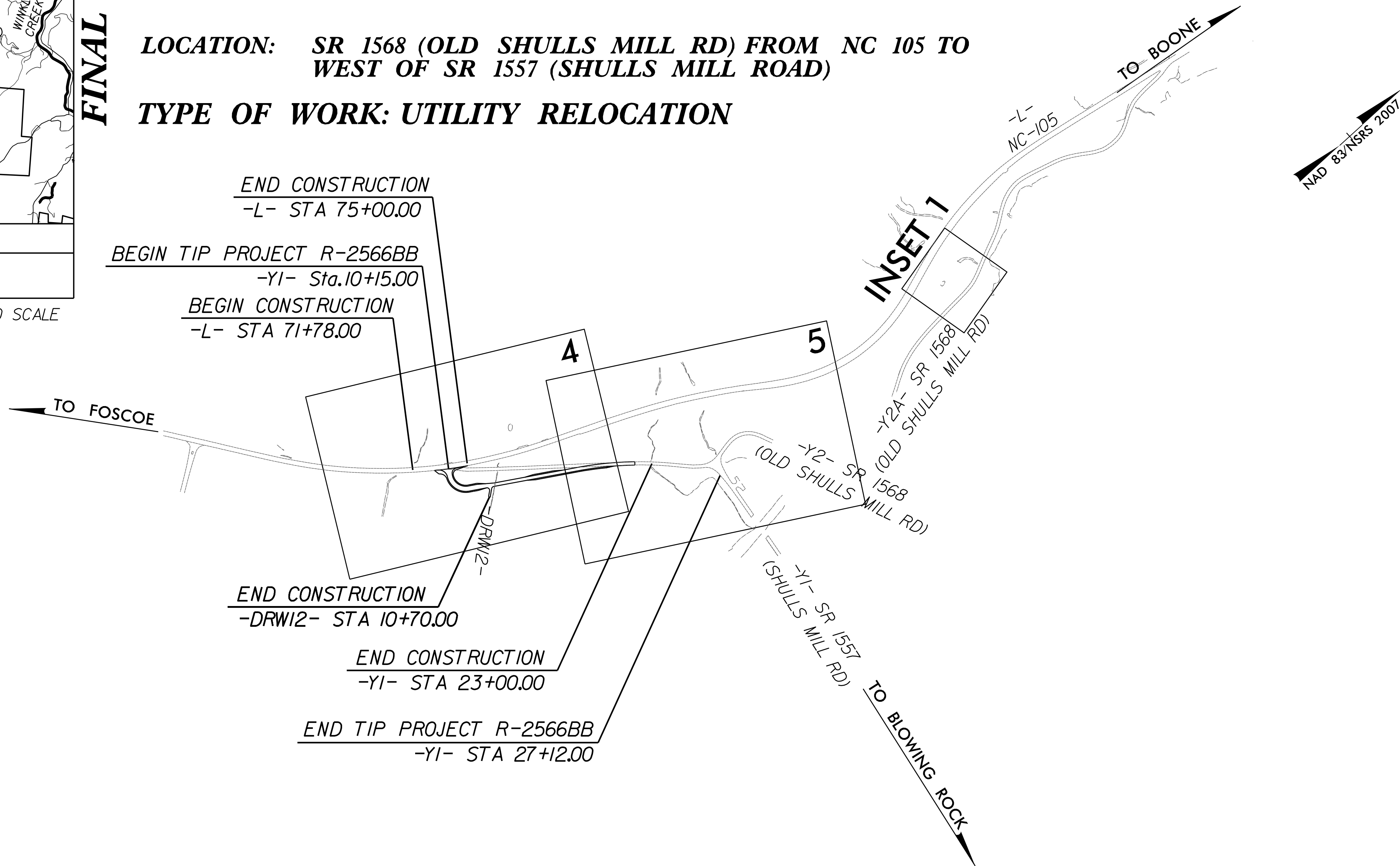
FINAL PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
WATAUGA COUNTY

LOCATION: SR 1568 (OLD SHULLS MILL RD) FROM NC 105 TO
WEST OF SR 1557 (SHULLS MILL ROAD)

TYPE OF WORK: UTILITY RELOCATION



T.I.P. NO.	SHEET NO.
R-2566BB	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.

GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.:

UO-1

UO-2 THRU UO-3

DESCRIPTION:

TITLE SHEET

UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

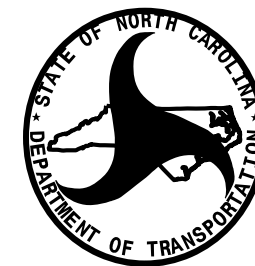
- (A) POWER - BLUERIDGE EMC TRANSMISSION
(B) COMMUNICATIONS - SKYLINE MEMBERSHIP CORP.
(C) COMMUNICATIONS - AT&T
(D) COMMUNICATIONS- CHARTER

PREPARED IN THE OFFICE OF:



PENNONI ASSOCIATES INC.
5430 WADE PARK BLVD., SUITE 106,
RALEIGH, NC 27607 PHONE: 919.929.1173
FAX: 919.493.6548 NC LICENSE #F-1267

PROJECT UTILITY COORDINATOR:
Eric Tweed, P.E.



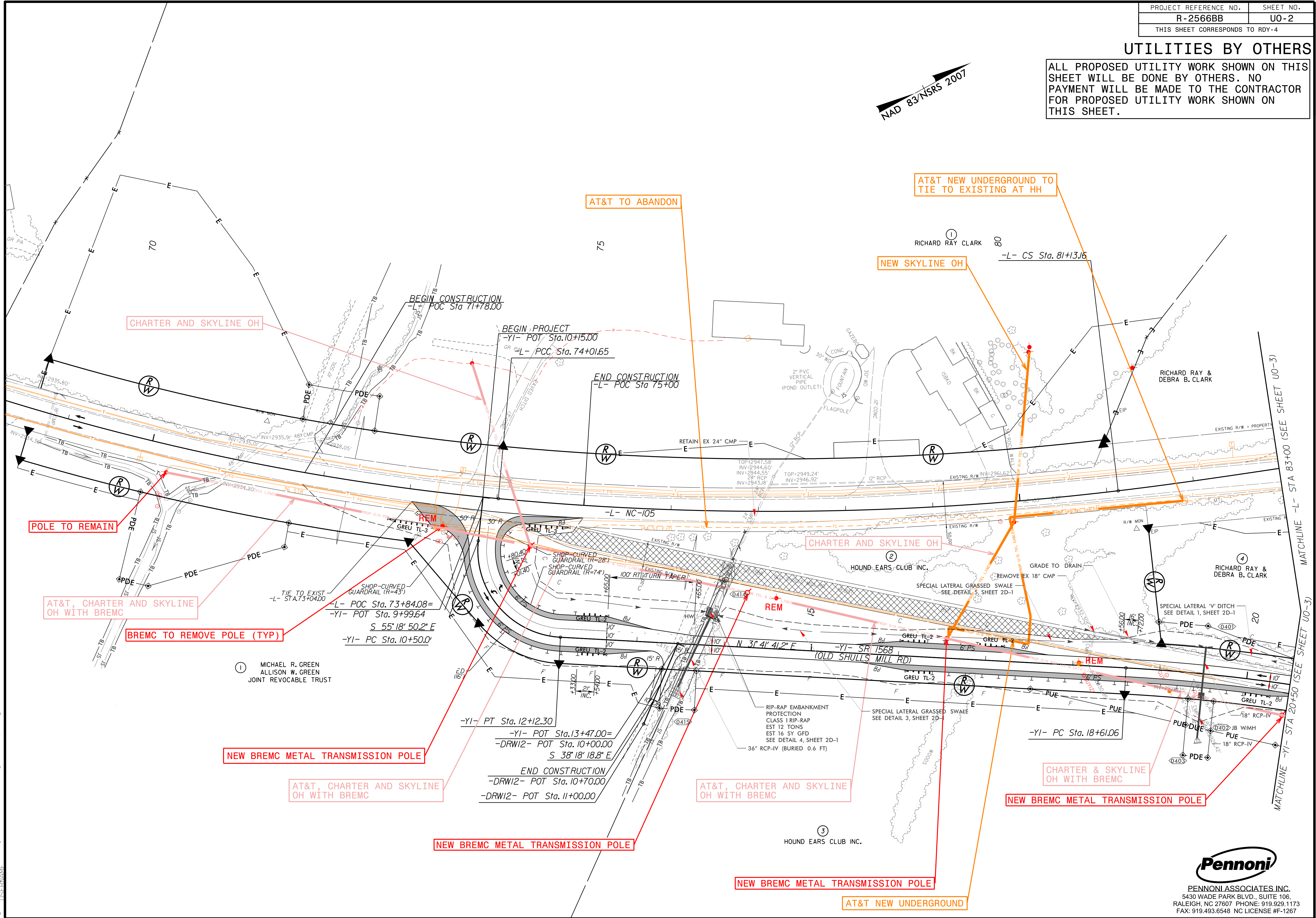
DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

MARK A. COLE SR. UTILITIES COORDINATOR
DONALD HAMPTON REGIONAL UTILITIES ENGINEER
AMY DUPREE YORK WESTERN UTILITIES MANAGER
STEVE TREXLER UTILITIES COORDINATOR

UTILITIES BY OTHERS

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NAD 83/NSRS 2007



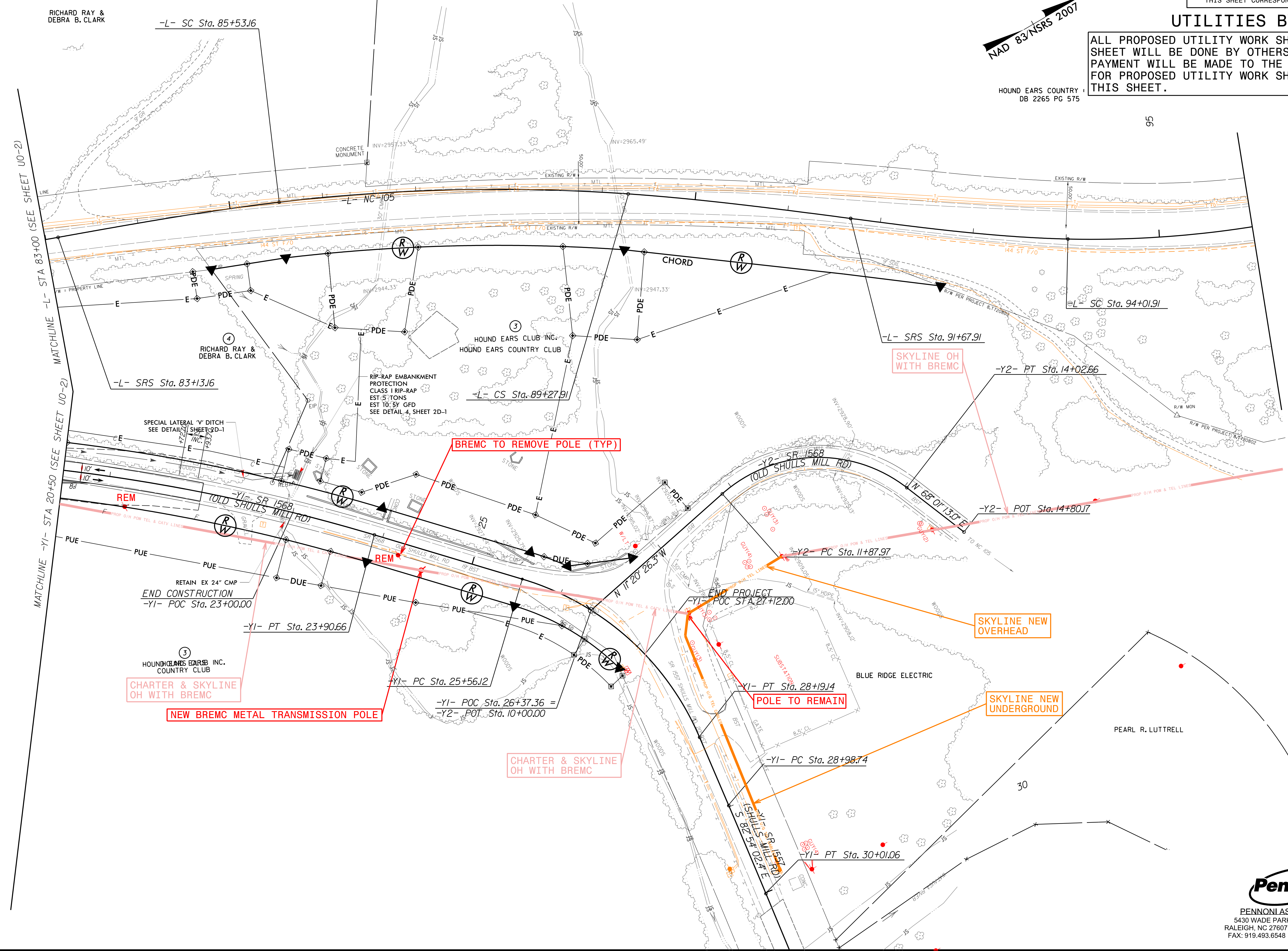
PENNONI ASSOCIATES INC.
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RALEIGH, NC 27607 PHONE: 919.929.1173
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HOUND EARS COUNTRY
DB 2265 PG 575

NAD 83/NSRS 2007



R-2566BB

CROSS SECTION INDEX

-L- NC-105	X-2 THRU X-3
-Y1- SR 1557 SHULLS MILL RD	X-4 THRU X-12
-DRW12-	X-13

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

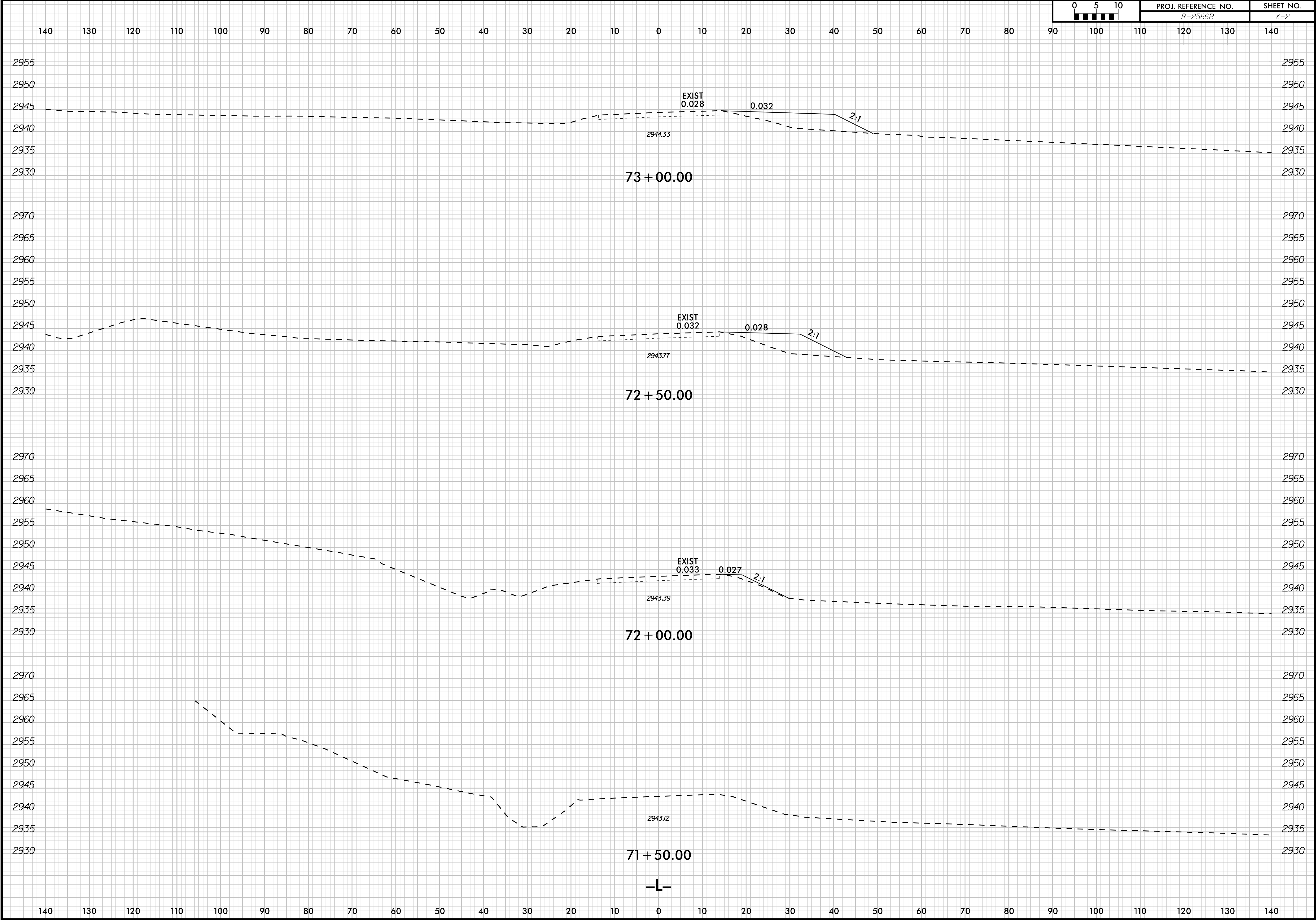
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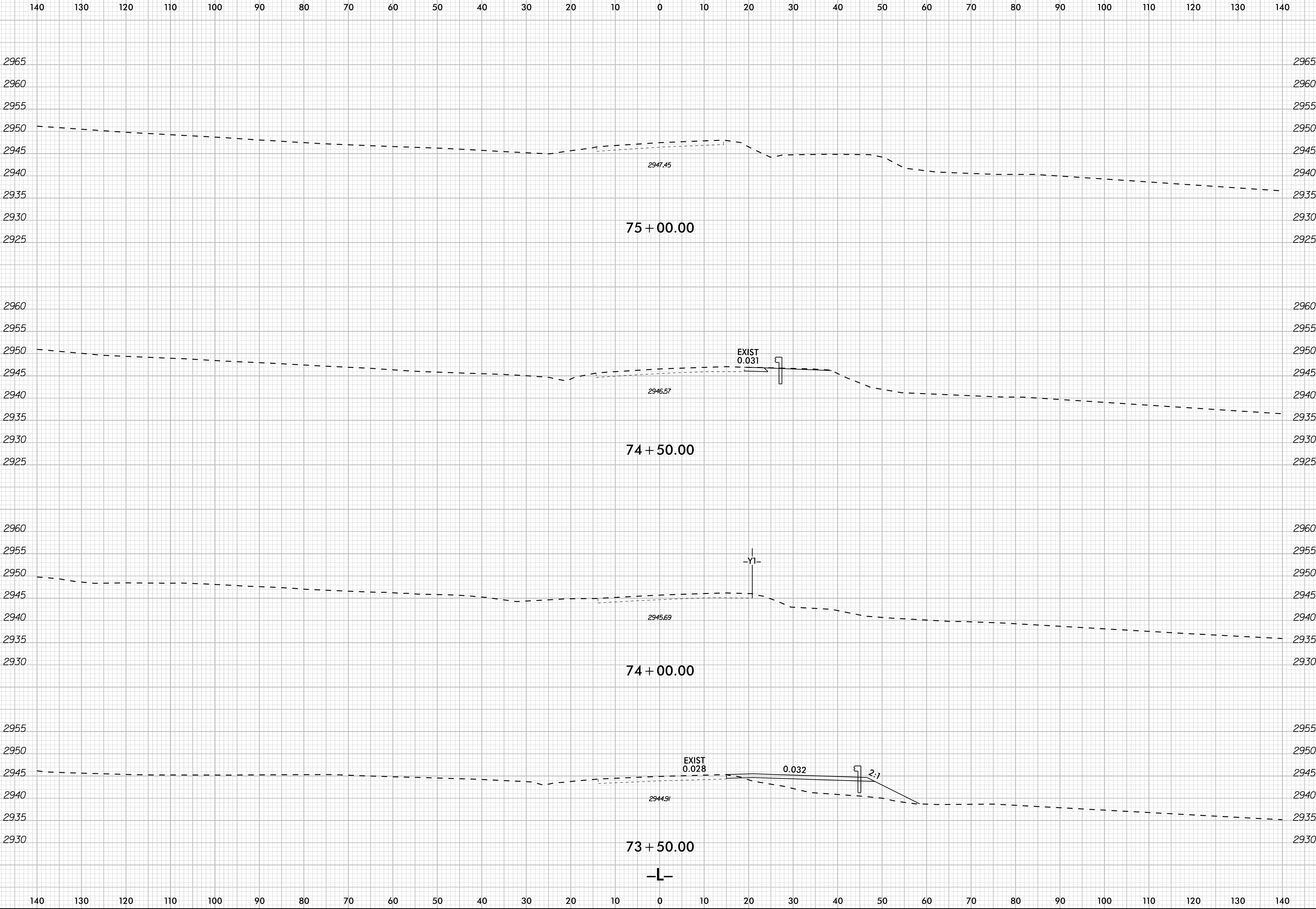
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R-2566BB	X-1B

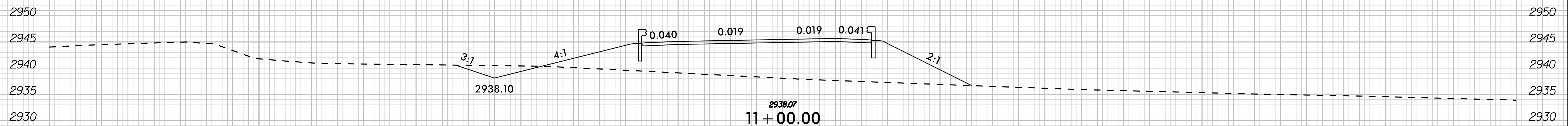
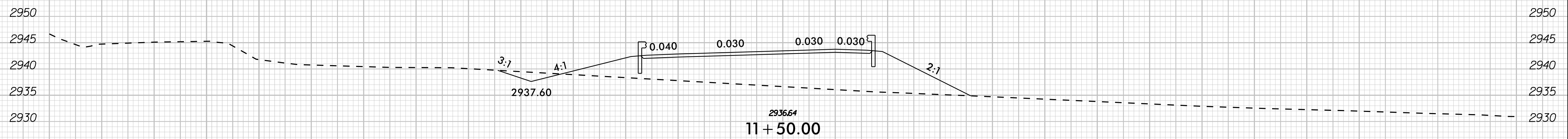
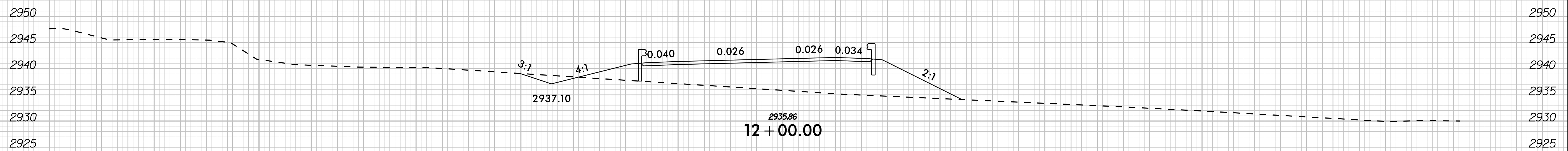
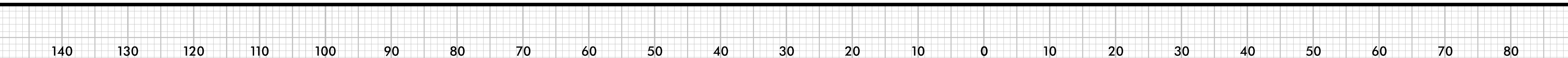
Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

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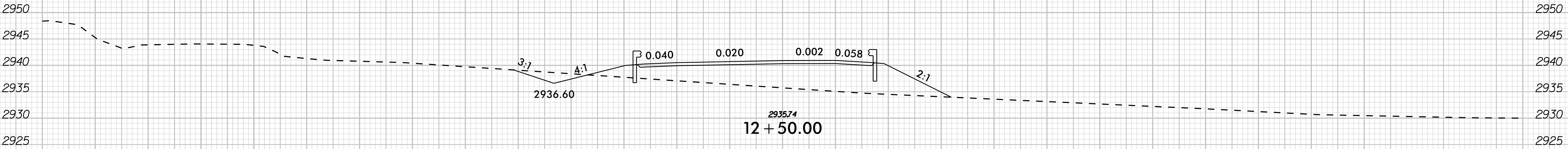
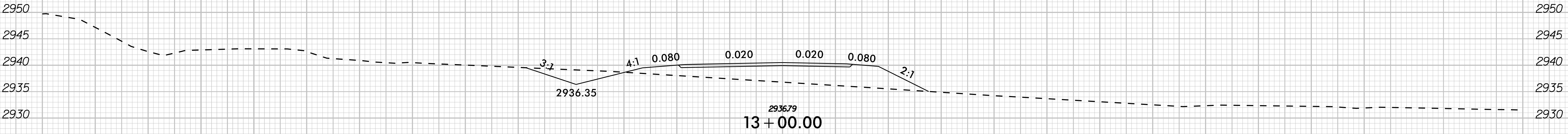
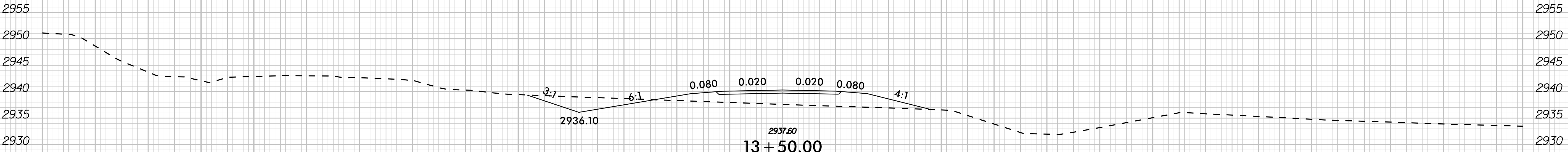




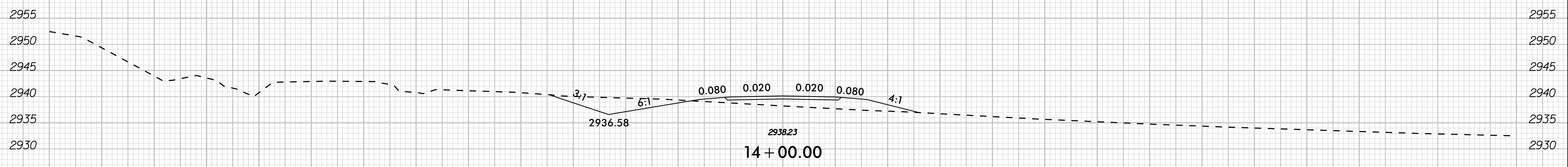
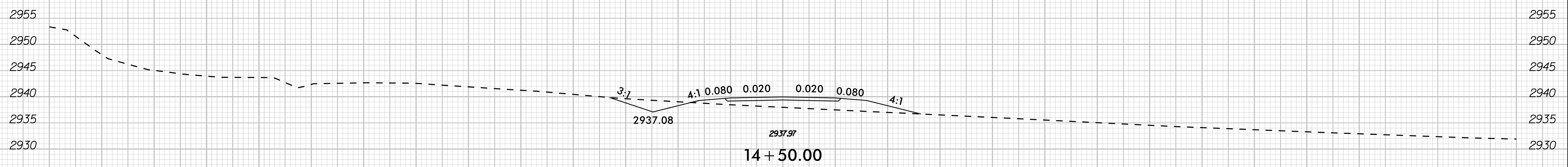
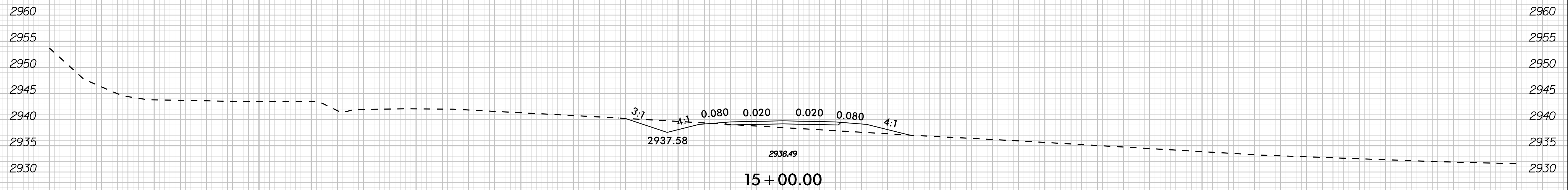
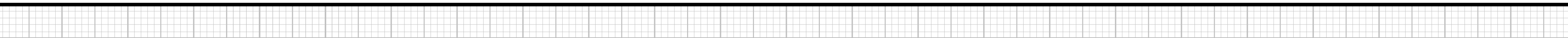
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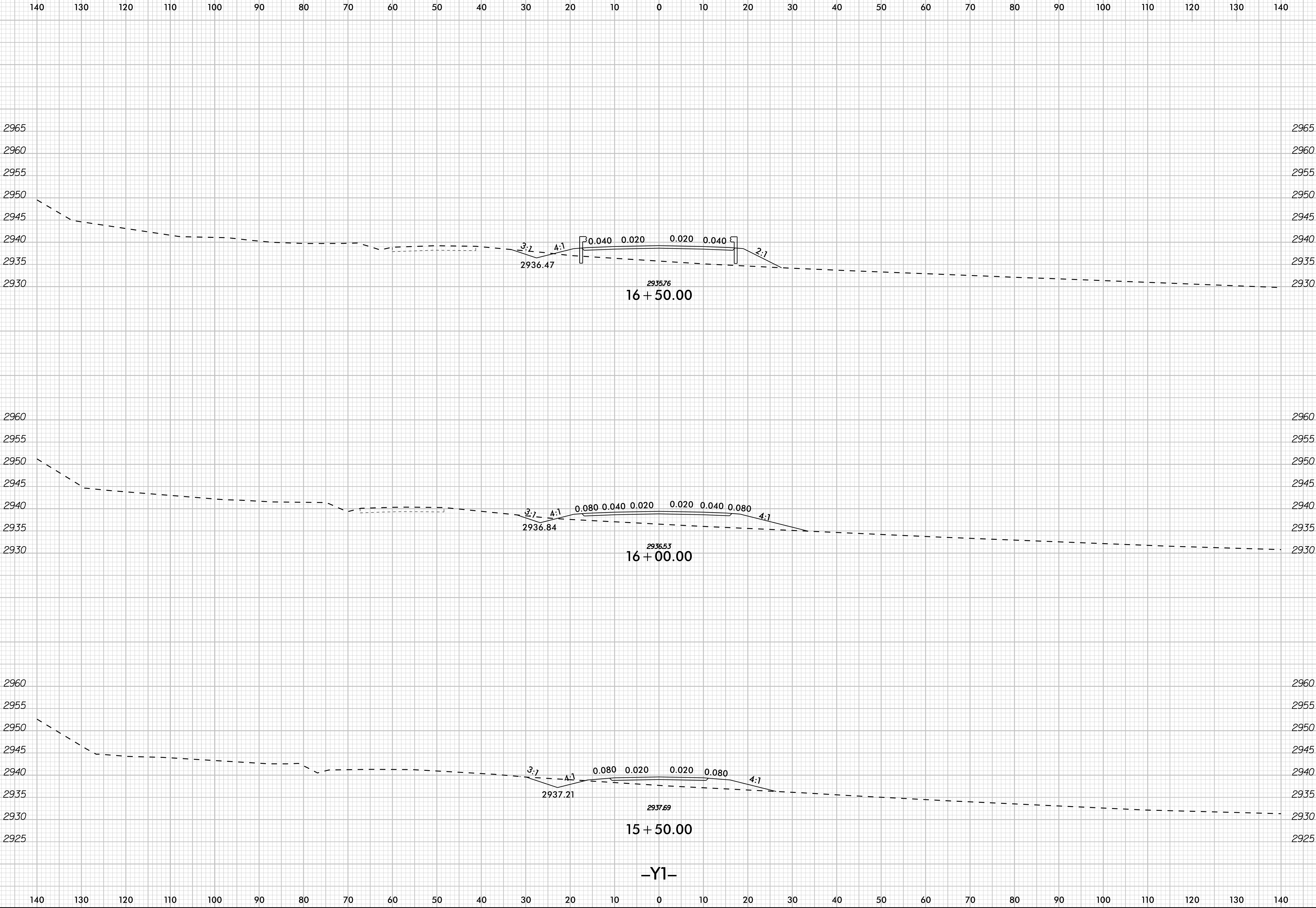


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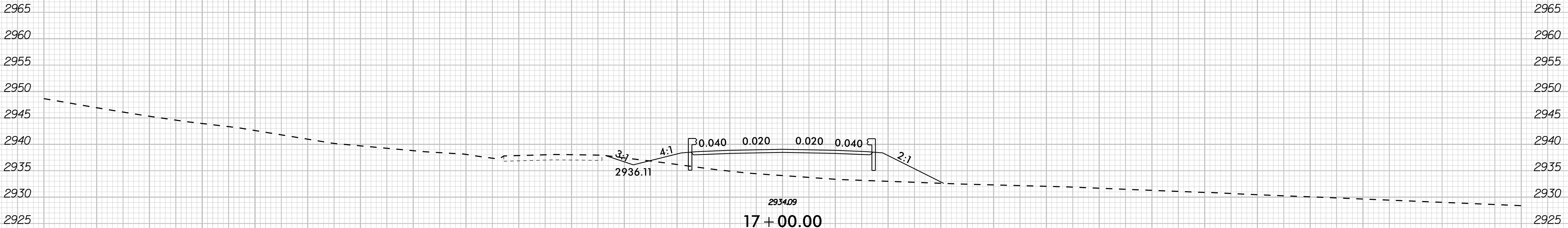
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11/13/2017



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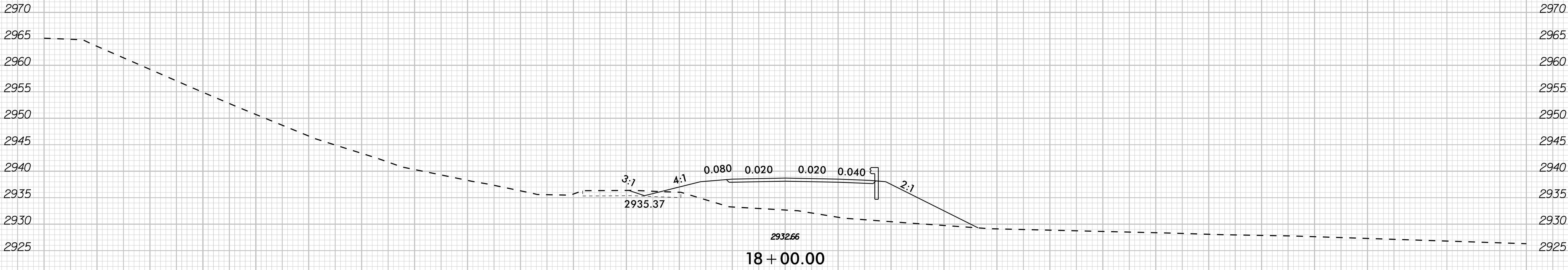
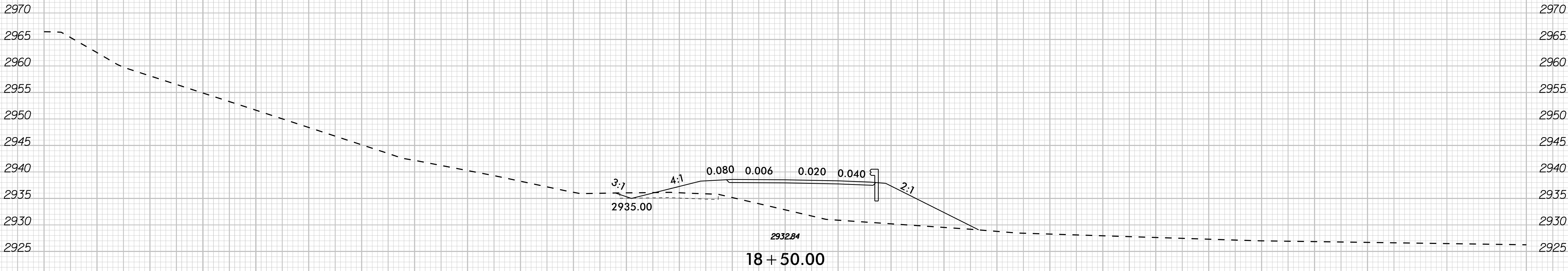
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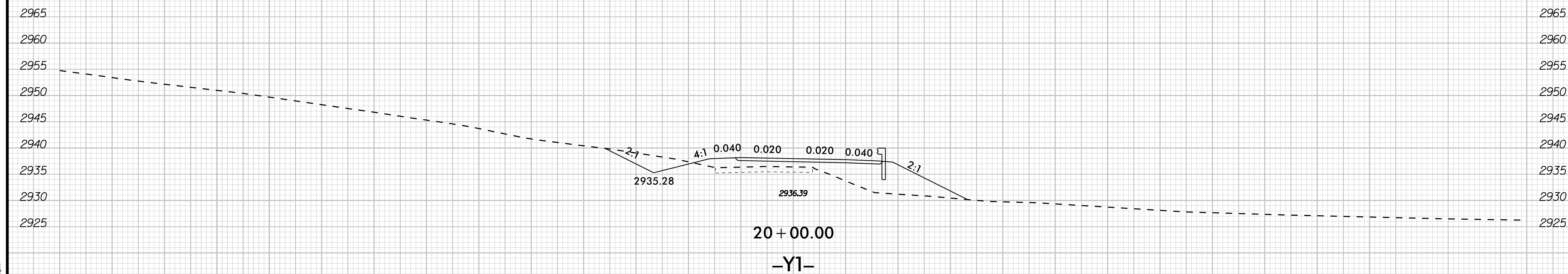
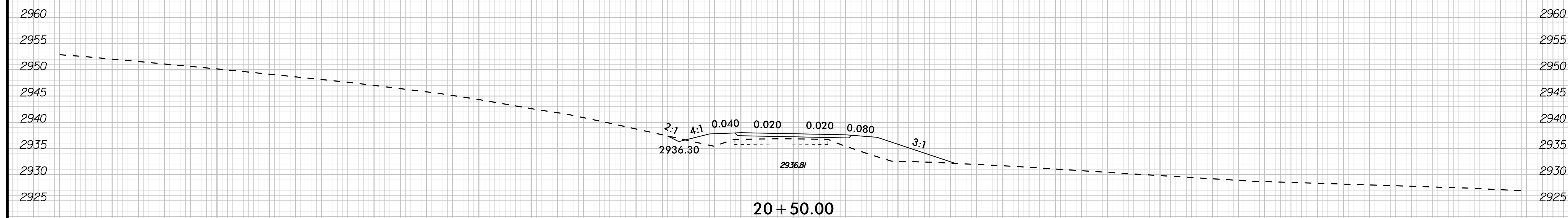
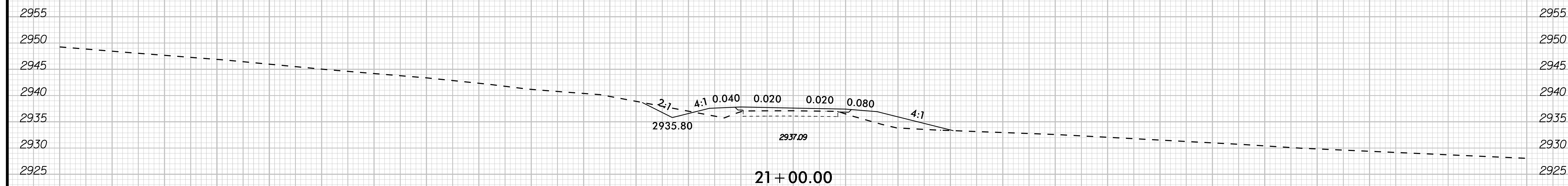
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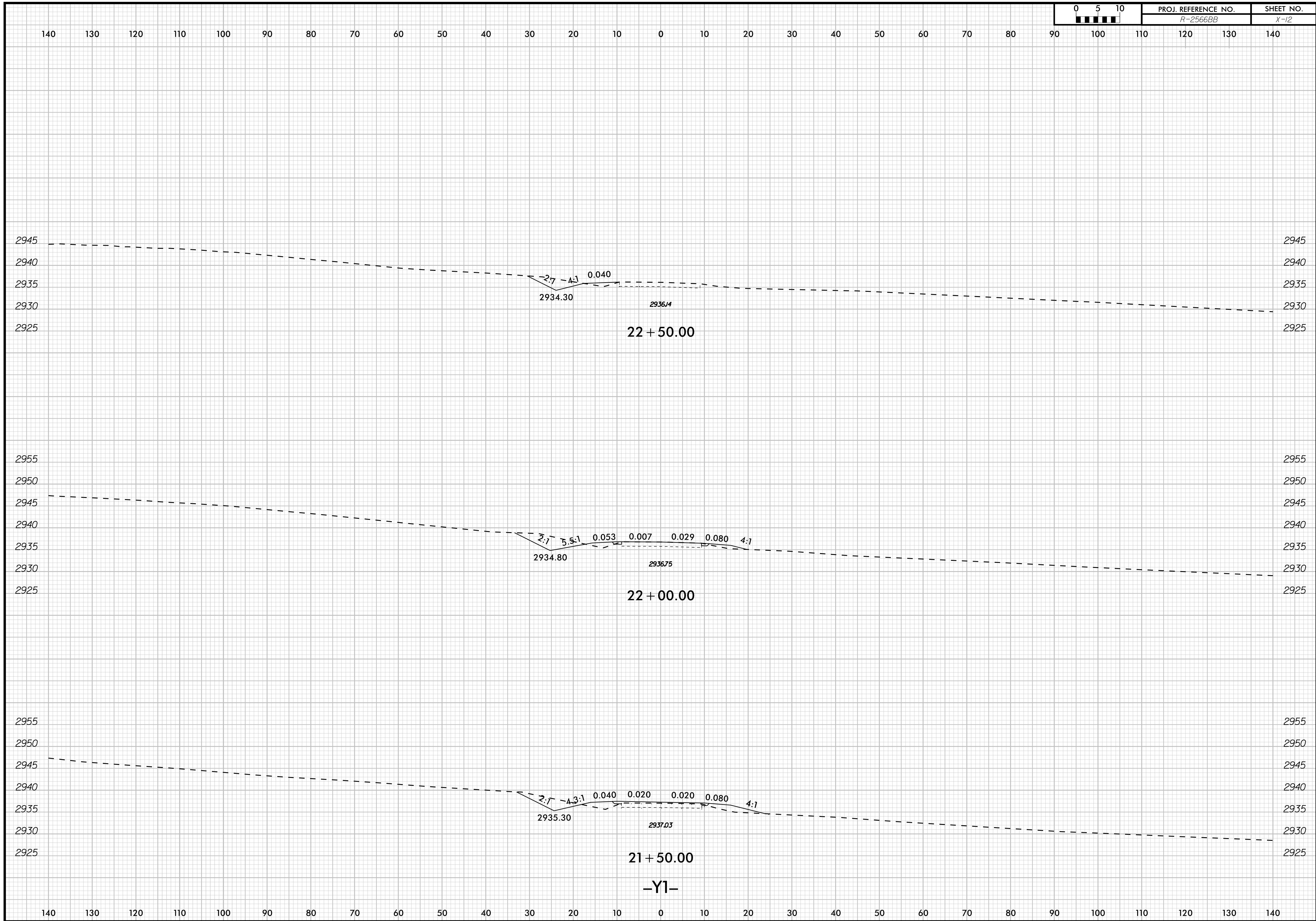
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11/13/2017



11/13/2017

