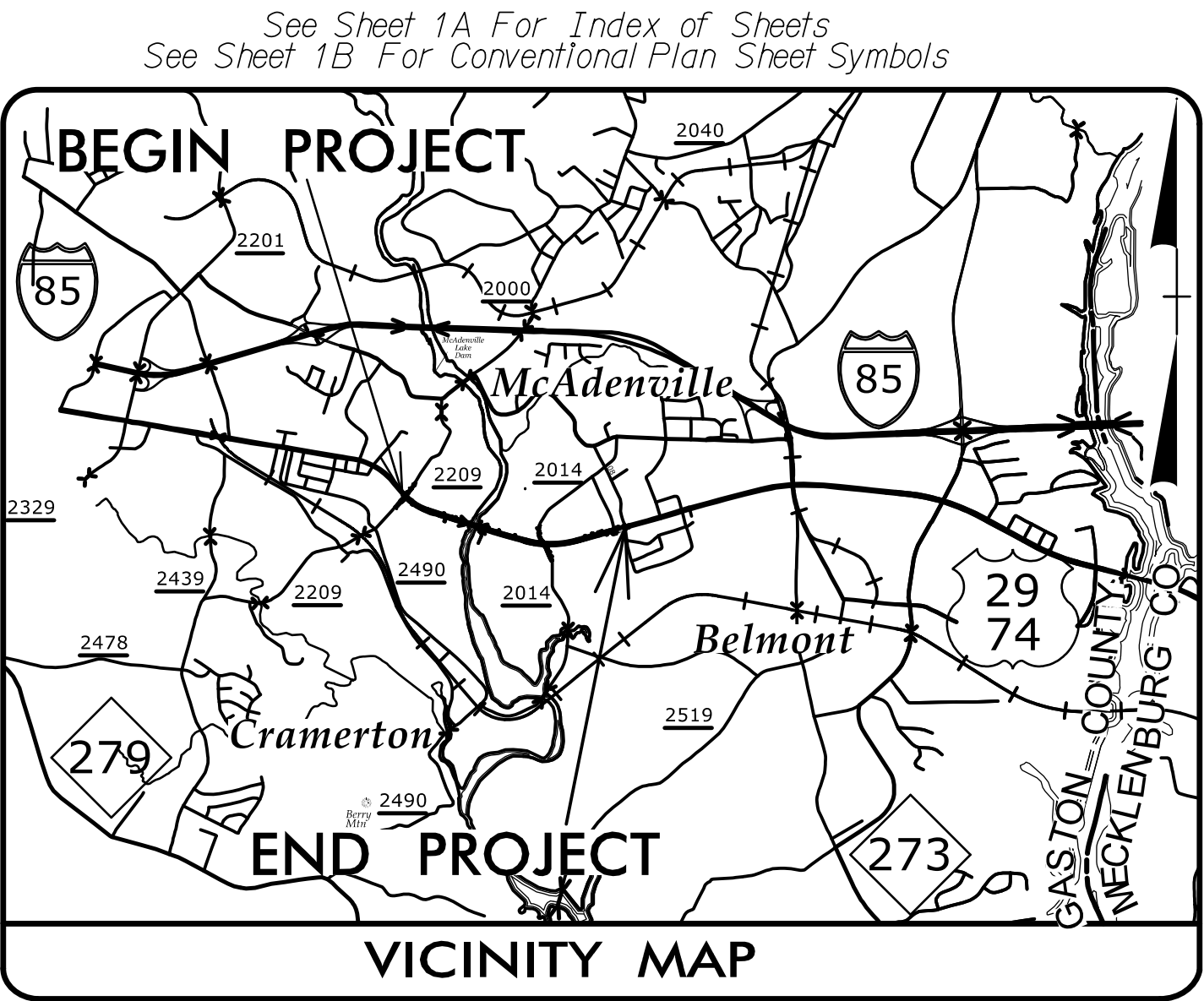


09/08/2019

TIP PROJECT: U-6146/B-5857

CONTRACT: C204481

8/22/2026
X:\NCDOT\B-5857 Cramerton\Roadway\Proj\U-6146_Rdy_.tsh.dgn
User:cpurgett



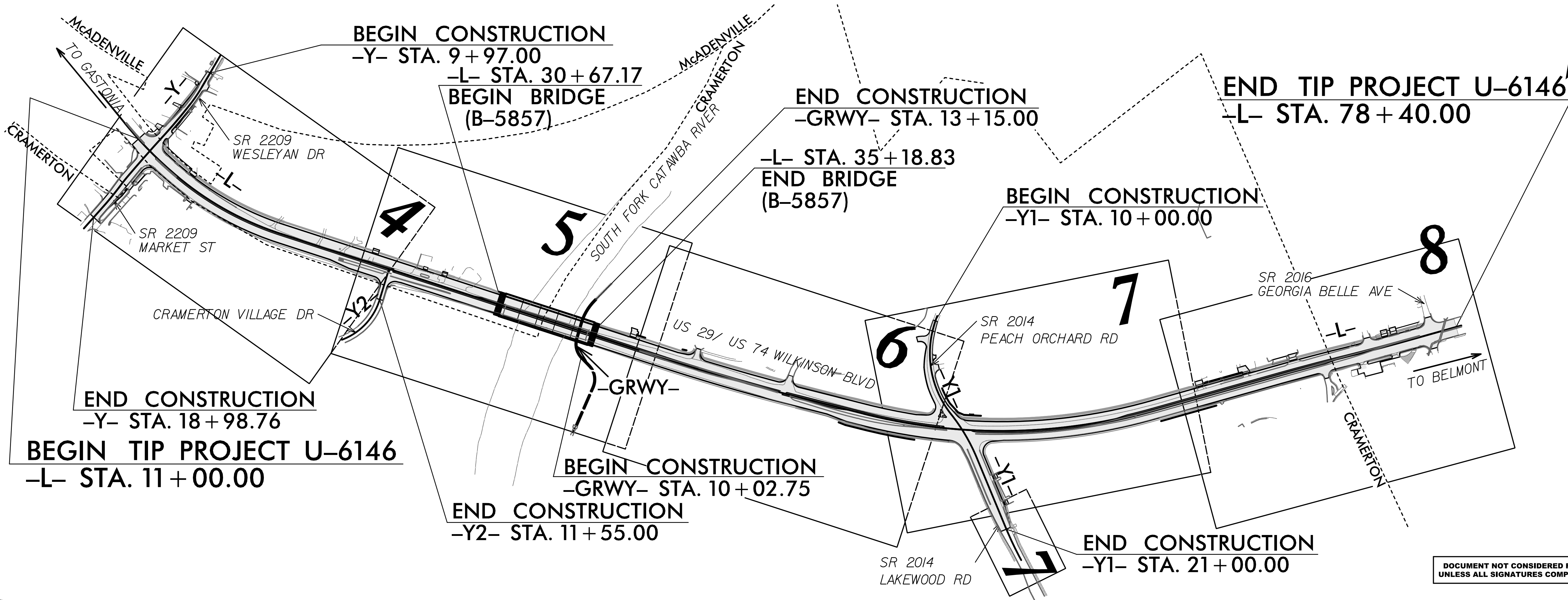
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GASTON COUNTY

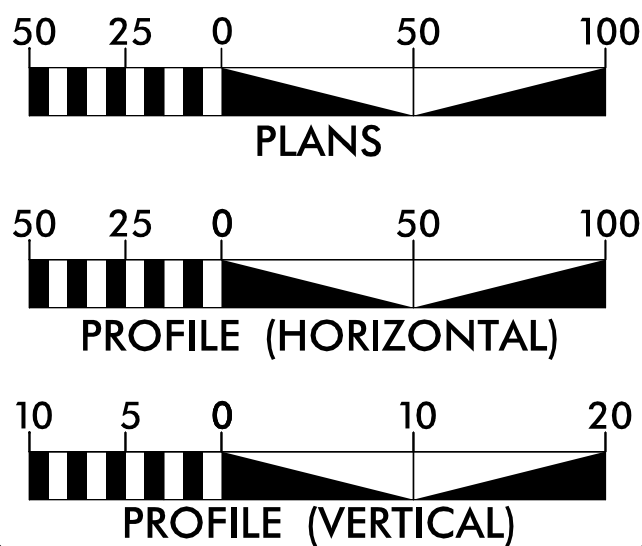
LOCATION: US 29/US 74 (WILKINSON BLVD) FROM SR 2209
(WESLEYAN DR/MARKET ST) TO SR 2016/SR 2017
(GEORGIA BELLE AVE/HUBBARD ST) COMBINED
WITH B-5857.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, AND
STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-6146/B-5857	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48392.1.1/45810.1.1	N/A	PE	
48392.2.1/45810.2.1	N/A	ROW	
48392.2.2	N/A	UTIL.	
48392.3.2/45810.3.1	N/A	CONST.	
47897	N/A	CONST.	



GRAPHIC SCALES



DESIGN DATA

ADT 2026 = 24,000
ADT 2040 = 26,100
K = 12 %
D = 70 %
T = 4 % *
V = 50 MPH
* TTST = 1% DUAL = 3%
FUNC CLASS =
URBAN ARTERIAL
REGIONAL TIER

PROJECT LENGTH

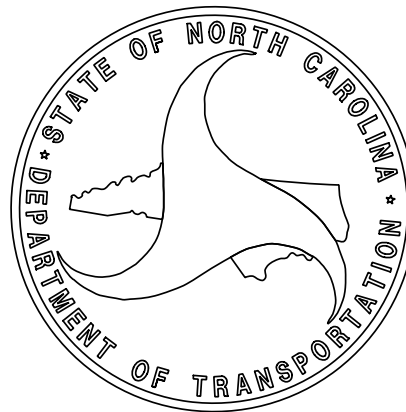
U-6146
LENGTH ROADWAY TIP PROJECT U-6146 = 1.191 MILES
TOTAL LENGTH TIP PROJECT U-6146 = 1.191 MILES
B-5857
LENGTH STRUCTURE TIP PROJECT B-5857 = 0.086 MILES
TOTAL LENGTH TIP PROJECT B-5857 = 0.086 MILES
GRAND TOTAL LENGTH OF TIP PROJECT U-6146/B-5857 = 1.277 MILES

NCDOT CONTACT: BRYAN SOWELL, PE

PLANS PREPARED BY:	PLANS PREPARED FOR:
TGS ENGINEERS 201 W. MARION ST, STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 12 1710 E. MARION ST SHELBY, NC 28150
RIGHT OF WAY DATE:	JIMMY L. TERRY, PE PROJECT ENGINEER
JULY 14, 2021	
LETTING DATE:	SANDRA MELVIN PROJECT DESIGN ENGINEER
NOVEMBER 17, 2026	
2024 STANDARD SPECIFICATIONS	

HYDRAULICS ENGINEER

9/2/2026	
Signed by: Benjamin J. Henegar SIGNATURE	P.E.
ROADWAY DESIGN ENGINEER	
Signed by: Jimmy L. Terry SIGNATURE	P.E.



8/17/99

9/2/2026 8-5857 Cramerton\\Roadway\\Proj\\U-6146_Rdy_tsh.dgn
X:\CADD\8-5857 Cramerton\\Roadway\\Proj\\U-6146_Rdy_tsh.dgn
User: jls

SHEET NUMBER		SHEET	GENERAL NOTES:		2024 SPECIFICATIONS		EFFECTIVE: 01-16-2024		REVISED:		TGS ENGINEERS		PROJECT REFERENCE NO.	SHEET NO.
1		TITLE SHEET	GRADE LINE:		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.		2024 ROADWAY ENGLISH STANDARD DRAWINGS		EFF. 01-16-2024 REV.		201 W. MARION ST., STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275		U-6146/B-5857	1A
1A		INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS	GRADING AND SURFACING OR RESURFACING AND WIDENING:		CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.		DIVISION 2 - EARTHWORK		200.03 Method of Clearing - Method III 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 240.01 Guide for Berm Ditch Construction 275.01 Rock Plating		ROADWAY DESIGN ENGINEER NORTH CAROLINA Professional Seal JIMMY L. TERRY 35018 12/2026		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
1B		CONVENTIONAL SYMBOLS	CLEARING:		SUPERELEVATION:		DIVISION 3 - PIPE CULVERTS		300.01 Method of Pipe Installation (Use Details in Lieu of Standards for Sheets 1 and 2 of 2) 310.10 Driveway Pipe Construction		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:			
2A-1 THRU 2A-3		PAVEMENT SCHEDULE AND TYPICAL SECTIONS	SHOULDER CONSTRUCTION:		SIDE ROADS:		DIVISION 4 - MAJOR STRUCTURES		423.01 Bridge Approach Fills - Type 1 Approach Fill for Bridge Abutment 423.02 Bridge Approach Fills - Type 1A Alternate Approach Fill for Integral Bridge Abutment					
2B-1		ROADWAY DETAIL - INTERSECTIONS	SUPERELEVATION:		STREET TURNOUT:		DIVISION 5 - SUBGRADE, BASES AND SHOULDERS		560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I					
2B-2 & 2B-3		ROADWAY DETAIL - MONO. CONC. ISLAND & CONC CURB LAYOUT	SHOULDER CONSTRUCTION:		SIDE ROADS:		DIVISION 6 - ASPHALT BASES AND PAVEMENTS		654.01 Pavement Repairs					
2C-1		SPECIAL DETAIL - HANDRAIL ON RETAINING WALL	SHOULDER CONSTRUCTION:		SIDE ROADS:		DIVISION 8 - INCIDENTALS		815.02 Subsurface Drain 838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew 840.00 Concrete Base Pad for Drainage Structures 840.01 Brick Catch Basin - 12" thru 54" Pipe 840.02 Concrete Catch Basin - 12" thru 54" Pipe 840.03 Frame, Grates and Hood - for Use on Standard Catch Basin 840.14 Concrete Drop Inlet - 12" thru 30" Pipe 840.15 Brick Drop Inlet - 12" thru 30" Pipe 840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15 840.17 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe 840.18 Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe 840.24 Frames and Narrow Slot Sag Grates 840.25 Anchorage for Frames - Brick or Concrete or Precast 840.26 Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe 840.27 Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe 840.29 Frames and Narrow Slot Flat Grates 840.30 Driveway Drop Inlet 840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under 840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates 840.45 Precast Drainage Structure 840.46 Traffic Bearing Precast Drainage Structure 840.51 Brick Manhole - 12" thru 36" Pipe 840.52 Precast Manhole - 4', 5' and 6' Diameter 12" thru 48" Pipe 840.53 Precast Manhole with Masonry Base - 12" thru 42" Pipe 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 840.71 Concrete and Brick Pipe Plug 840.72 Pipe Collar 846.01 Concrete Curb, Gutter and Curb & Gutter 846.04 Drop Inlet Installation in Shoulder Berm Gutter 848.01 Concrete Sidewalk (Use Detail in Lieu of Standard for Sheet 1 of 1) 848.02 Driveway Turnout - Radius Type 848.04 Street Turnout 848.06 Curb Ramp (Use Details in Lieu of Standards for Sheets 9 and 10 of 13) 848.07 Concrete Sidepath / Shared Use Path / Greenway Construction 850.01 Concrete Paved Ditches 850.10 Guide for Berm Drainage Outlet - 15" and 18" Pipe 850.11 Guide for Berm Drainage Outlet - 24" and 30" Pipe 852.01 Concrete Islands 852.05 Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter 852.06 Method for Placement of Drop Inlets in Concrete Islands 862.01 Guardrail Placement (Use Details in Lieu of Standards for Sheets 4, 6, 12, and 14 of 15) 862.02 Guardrail Installation 862.03 Structure Anchor Units (Use Detail in Lieu of Standard for Sheet 8 of 9) 866.06 Chain Link Fence on Retaining Wall 876.01 Rip Rap in Channels and Ditches 876.02 Guide for Rip Rap at Pipe Outlets 876.04 Drainage Ditches with Class 'B' Rip Rap					
2C-2		SPECIAL DETAIL - BICYCLE/PEDESTRAIN SAFETY RAIL	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2C-3		SPECIAL DETAIL - WOOD RUB RAIL	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2C-4 THRU 2C-5		SPECIAL DETAIL - METHOD OF PIPE INSTALLATION	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2C-6		SPECIAL DETAIL - CONCRETE SIDEWALK	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2C-7 THRU 2C-8		SPECIAL DETAIL - GUARDRAIL PLACEMENT	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2C-9		SPECIAL DETAIL - TIMBER BOLLARD	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2C-10		SPECIAL DETAIL - WOOD SAFETY RAIL	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2D-1		DRAINAGE DETAIL - PREFORMED SCOUR HOLE	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2D-2		DRAINAGE DETAIL - CONVERT EXIST CB OR JB TO DI OR 2-GI	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2D-3		DRAINAGE DETAIL - TEMPORARY STEEL COVER	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2D-4 THRU 2D-6		DRAINAGE DETAIL - BARGE ACCESS AND STAGING	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2G-1		GEOTECHNICAL DETAIL - ROCK PLATING	SHOULDER CONSTRUCTION:		SIDE ROADS:									
2G-2		GEOTECHNICAL DETAIL - STANDARD TEMPORARY SHORING	SHOULDER CONSTRUCTION:		SIDE ROADS:									
3B-1		ROADWAY SUMMARIES	SHOULDER CONSTRUCTION:		SIDE ROADS:									
3D-1 THRU 3D-9		DRAINAGE SUMMARY	SHOULDER CONSTRUCTION:		SIDE ROADS:									
3D-10		SUMMARY OF STORMWATER CONTROL MEASURES	SHOULDER CONSTRUCTION:		SIDE ROADS:									
3G-1		GEOTECHNICAL SUMMARIES	SHOULDER CONSTRUCTION:		SIDE ROADS:									
3P-1		PARCEL INDEX SHEET	SHOULDER CONSTRUCTION:		SIDE ROADS:									
4 THRU 8		PLAN SHEETS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
9 THRU 12		PROFILE SHEETS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
RW-01 THRU RW-08		SURVEY CONTROL SHEETS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
TMP-1 THRU TMP-22		TRANSPORTATION MANAGEMENT PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
PMP-1 THRU PMP-5		PAVEMENT MARKING PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
EC-1 THRU EC-13		EROSION CONTROL PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
SIGN-1 THRU SIGN-9		SIGNING PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
SIG.1.0 THRU SIG. 12.1		SIGNAL PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
SIG.M1A THRU SIG.M-9		STANDARD METAL POLE DETAILS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
SCP. 1 THRU SCP.7 & SPL. 1 THRU SPL. 4		SIGNAL COMMUNICATION PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
UC-1 THRU UC-13		UTILITY CONSTRUCTION PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
UO-1 THRU UO-6		UTILITIES BY OTHERS PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
X-1		CROSS-SECTION INDEX SHEET	SHOULDER CONSTRUCTION:		SIDE ROADS:									
X-1A		CROSS-SECTION SUMMARY SHEET	SHOULDER CONSTRUCTION:		SIDE ROADS:									
X-2 THRU X-46		CROSS-SECTIONS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
STRUCTURE TITLE SHEET			SHOULDER CONSTRUCTION:		SIDE ROADS:									
STRUCTURE INDEX SHEET			SHOULDER CONSTRUCTION:		SIDE ROADS:									
S-1 THRU S-100		STRUCTURE PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									
STRUCTURE NOTES			SHOULDER CONSTRUCTION:		SIDE ROADS:									
W-1 THRU W-14		RETAINING WALL PLANS	SHOULDER CONSTRUCTION:		SIDE ROADS:									

05/20/24

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	
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	

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	

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

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	

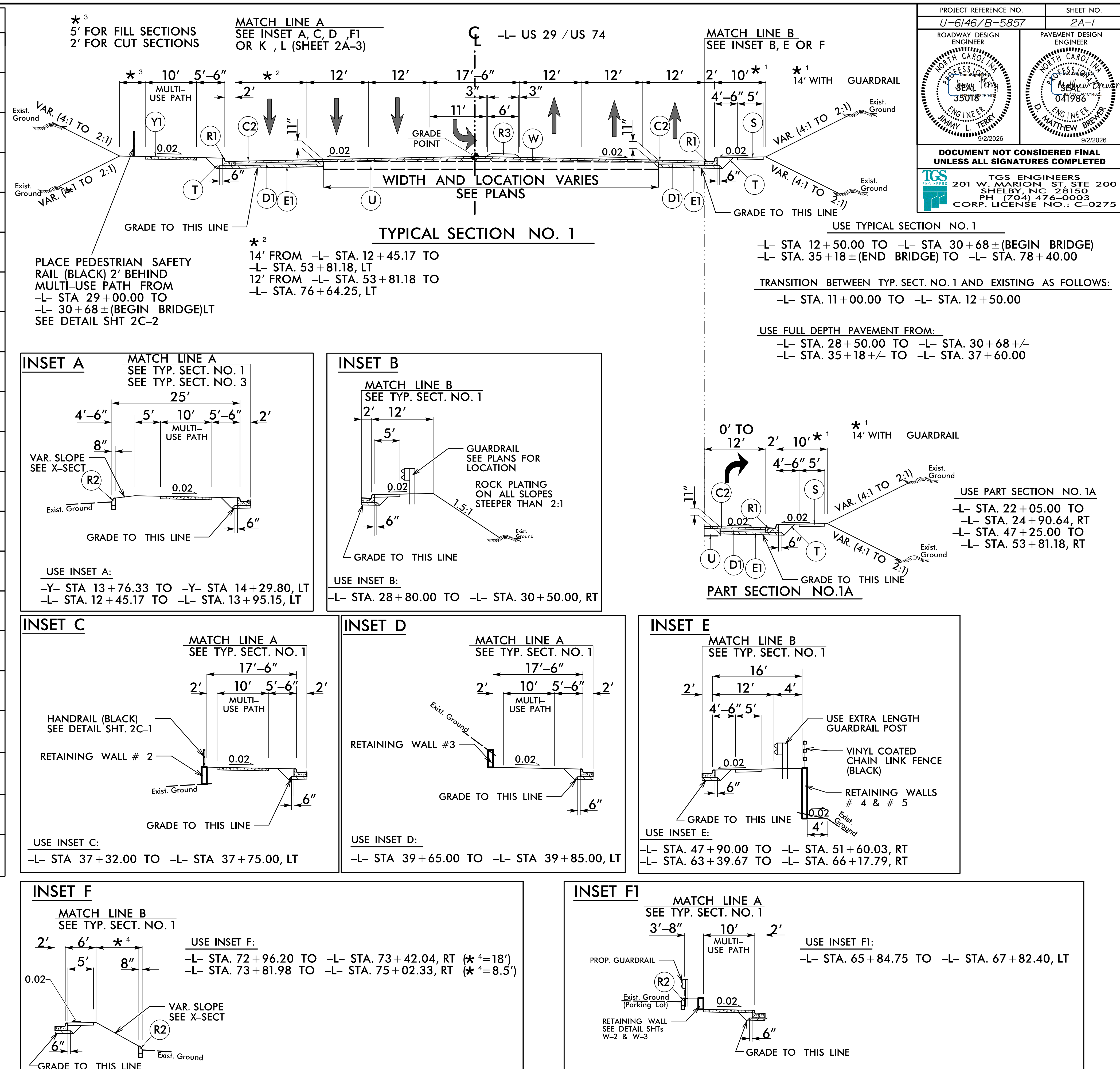
SANITARY SEWER:

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	

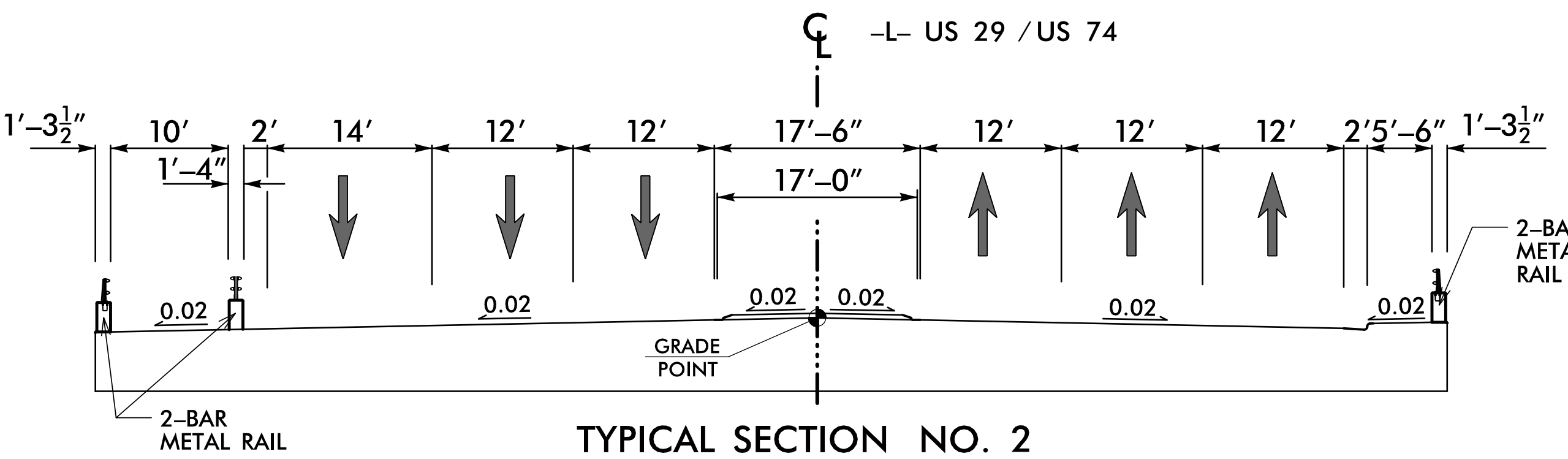
PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



6/2/2026

8/28/2026 C:\Users\j\OneDrive\Documents\Roadway\Pro\U-6146_Rdy_typ.dgn User: j

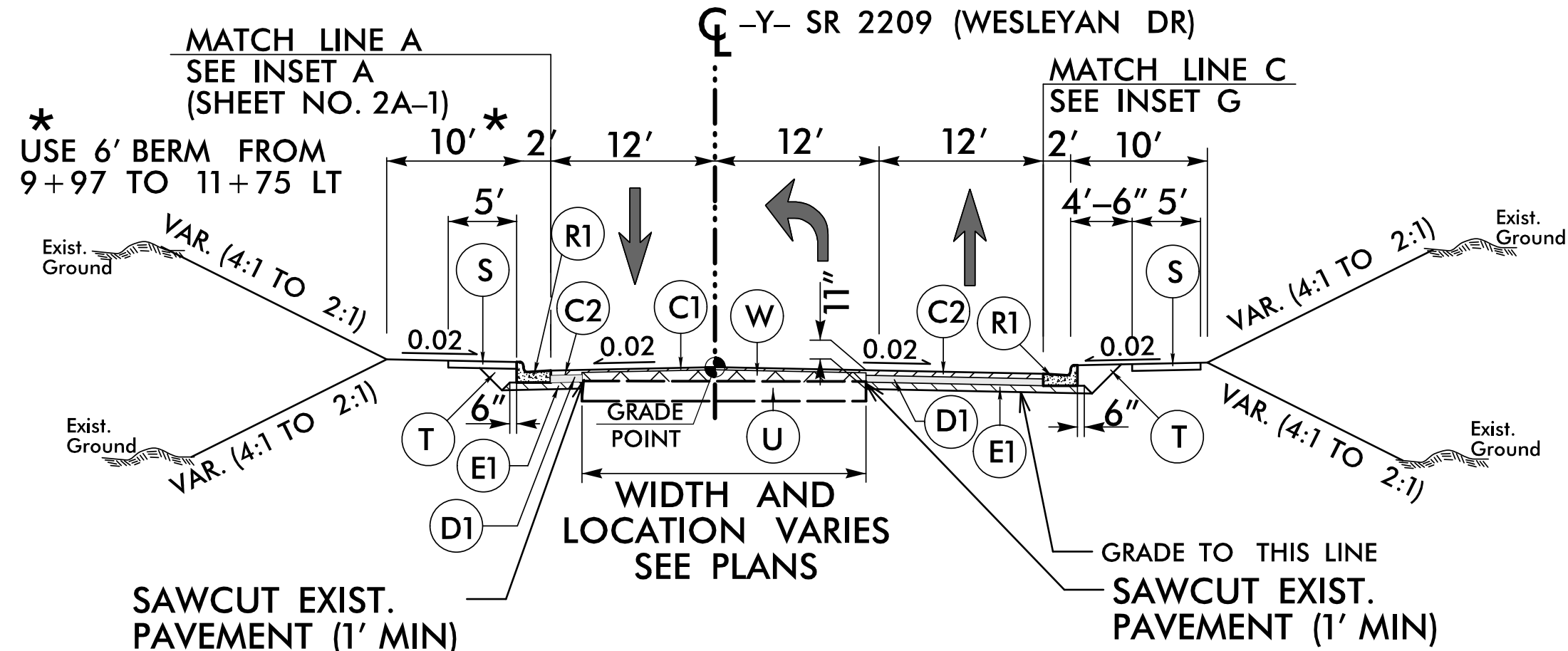
FINAL PAVEMENT SCHEDULE					
C1	1 1/2" S9.5C	E3	VAR. B25.0C	T	EARTH MATERIAL
C2	3" S9.5C	R1	2'-6" C&G	U	EXIST. PAVEMENT
C4	VAR. S9.5C	R2	8" X 12" CURB	V1	1 1/2" MILLING
D1	4" I19.0C	K2	8" CL IV SUB. STABILIZATION	V2	INCIDENTAL MILLING
D2	VAR. I19.0C	N1	GEOTEXTILE FOR SUBGRADE STABILIZATION	W	WEDGING
E1	4" B25.0C	S	SIDEWALK	PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

-L- STA. 30+68± TO -L- STA. 35+18±



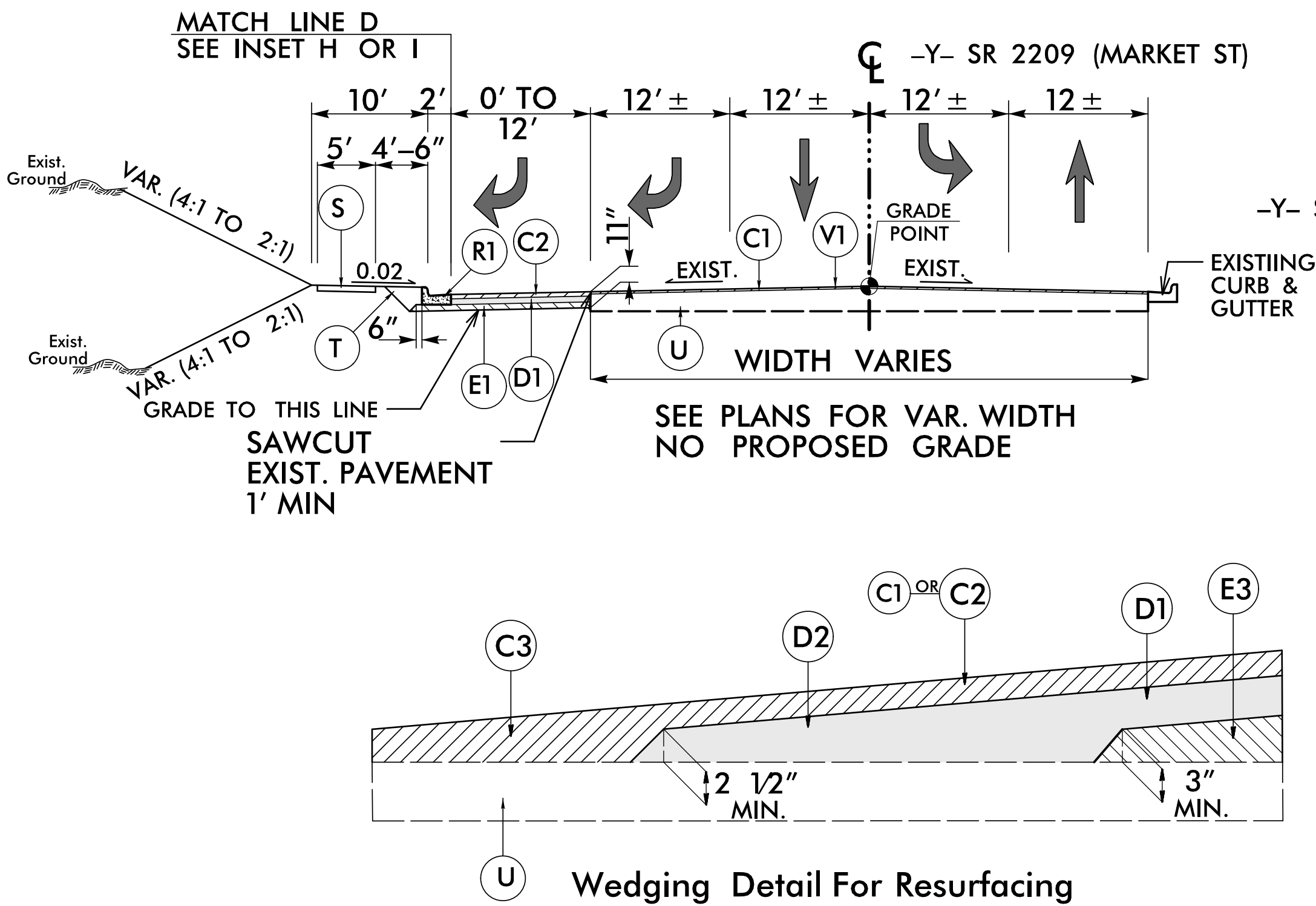
TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3

-Y- STA 10+97.00 TO -Y- STA. 14+29.80, LT
-Y- STA. 11+77.00 TO -Y- STA. 14+29.80, RT

TRANSITION BETWEEN TYP. SECT. NO. 3 AND EXISTING AS FOLLOWS:

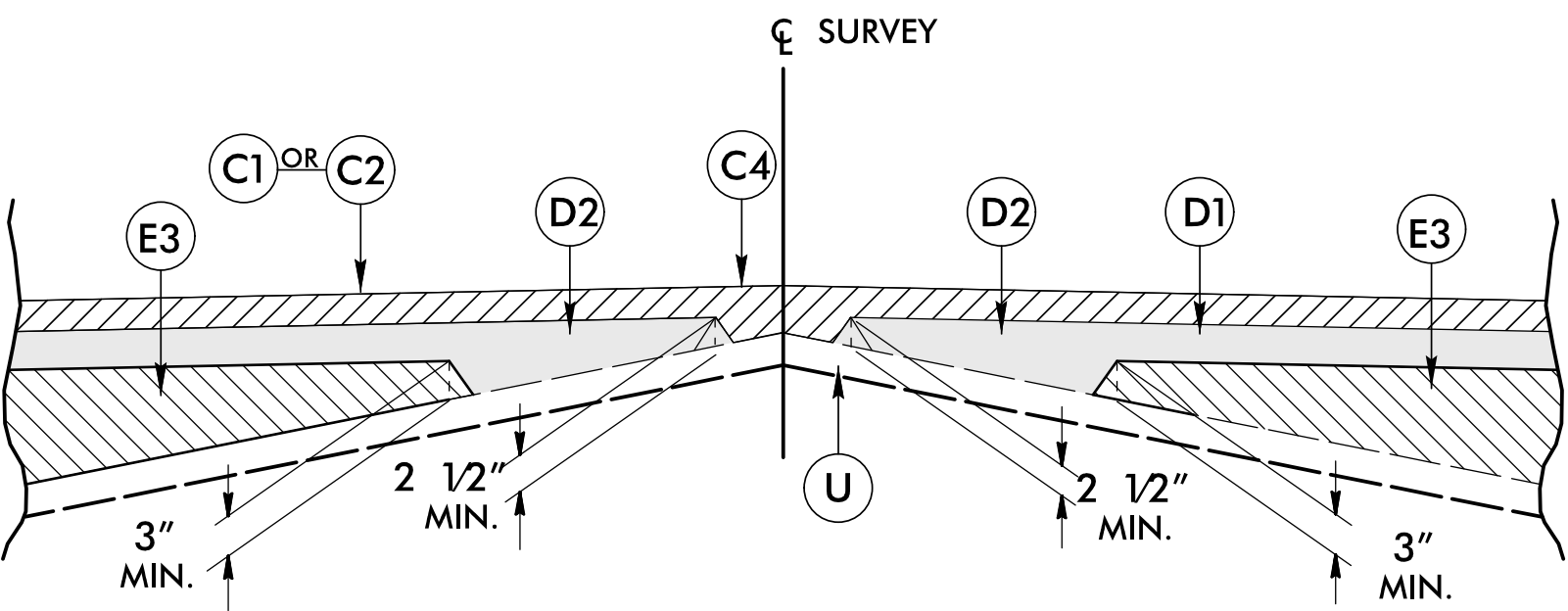
-Y- STA. 9+97.00 TO -Y- STA. 10+97.00, LT
-Y- STA. 9+97.00 TO -Y- STA. 11+77.00, RT



TYPICAL SECTION NO. 4

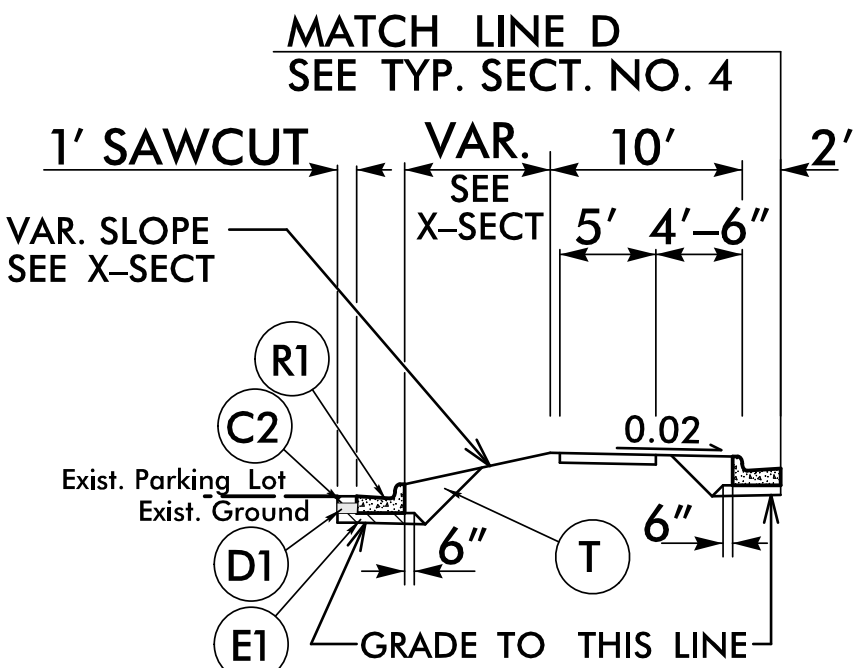
USE TYPICAL SECTION NO. 4

-Y- STA 15+21.47 TO -Y- STA. 18+98.76



Detail Showing Method of Wedging

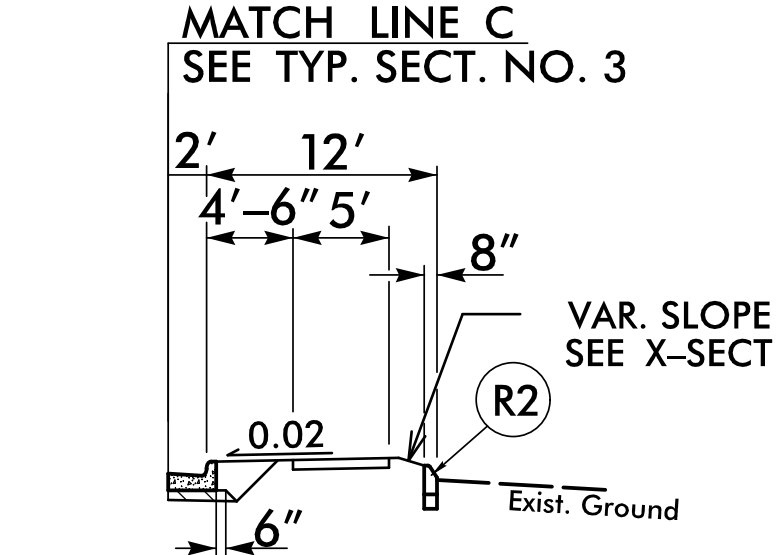
INSET H



USE INSET H:

-Y- STA. 15+71.30 TO
-Y- STA. 16+51.03, LT

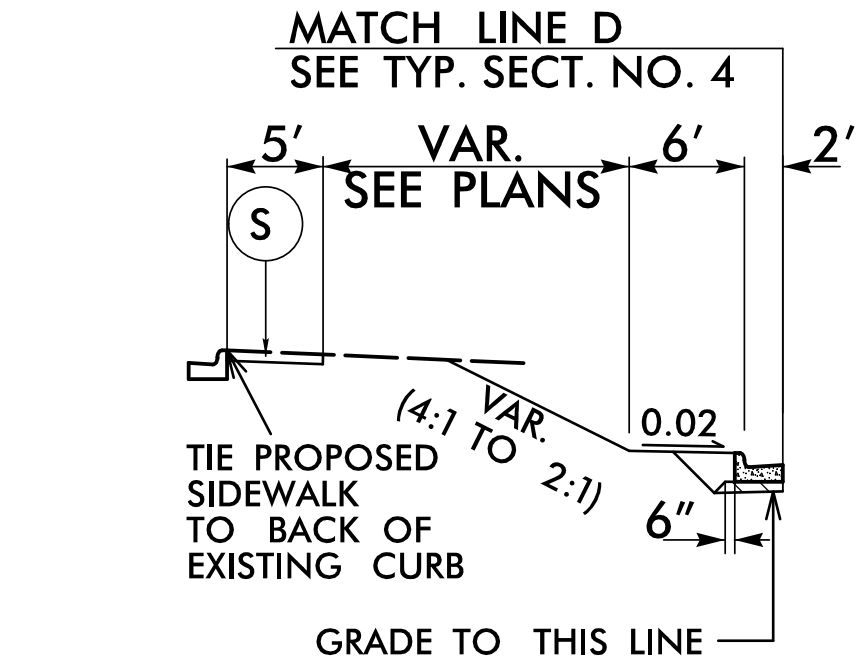
INSET G



USE INSET G:

-Y- STA. 13+72.04, RT TO
-L- STA. 11+05.26, LT

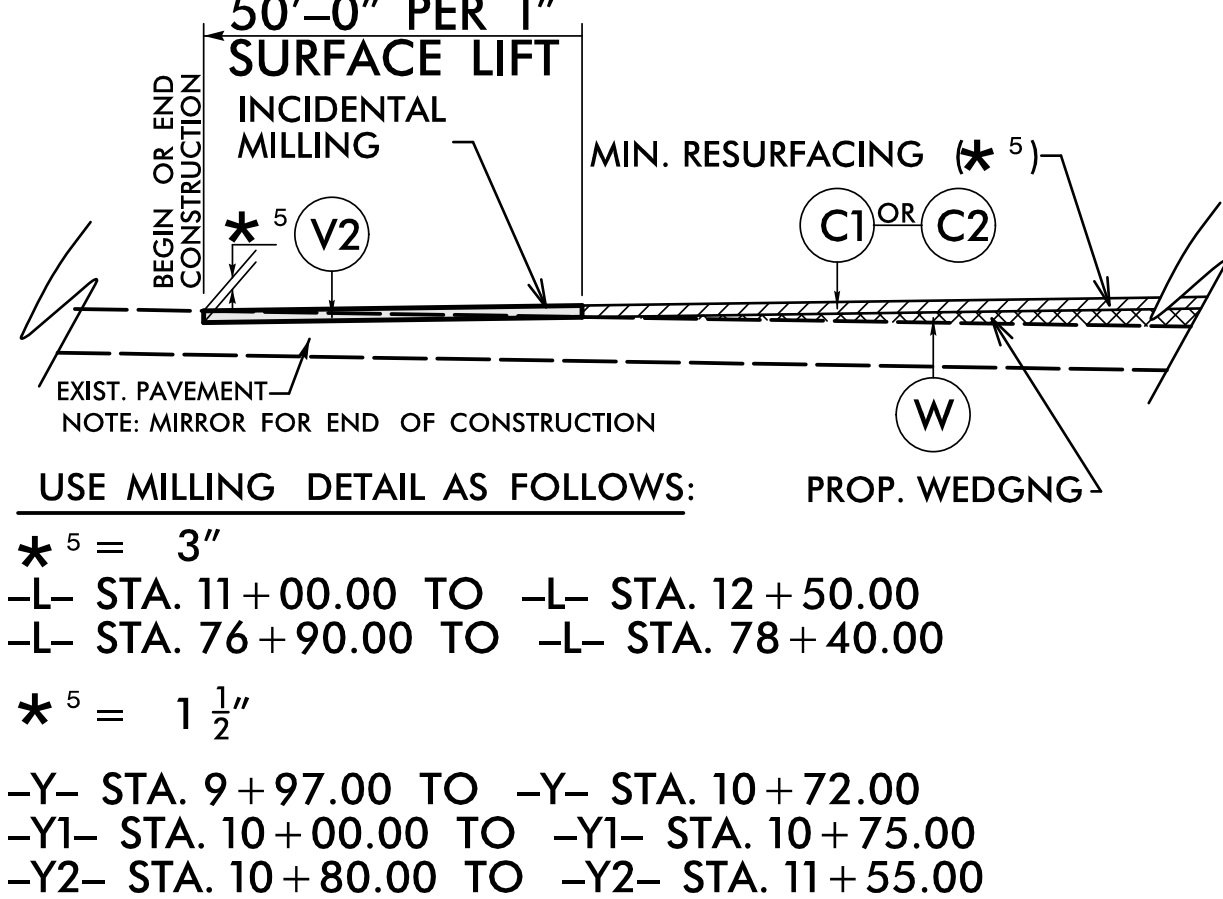
INSET I



USE INSET I:

-Y- STA. 16+88.78 TO
-Y- STA. 18+98.76, LT

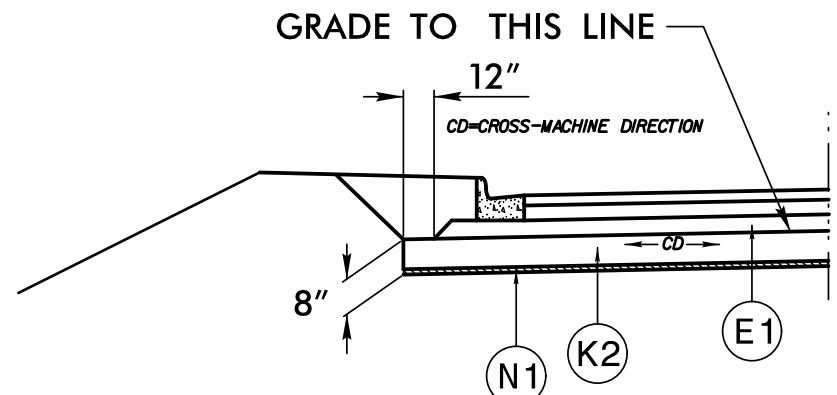
MILLING DETAIL



GEOTEXTILE FOR SUBGRADE STABILIZATION PLACEMENT (PLAN VIEW)

(100% COVERAGE REQUIRED)

*INSTALL GEOTEXTILE FOR SUBGRADE STABILIZATION WITH MINIMUM ROLL WIDTH UNDER ROADWAY EDGES AND SHOULDERS ADJACENT TO FILL SLOPES



AGGREGATE SUBGRADE FOR CG WITH ASPHALT BASE

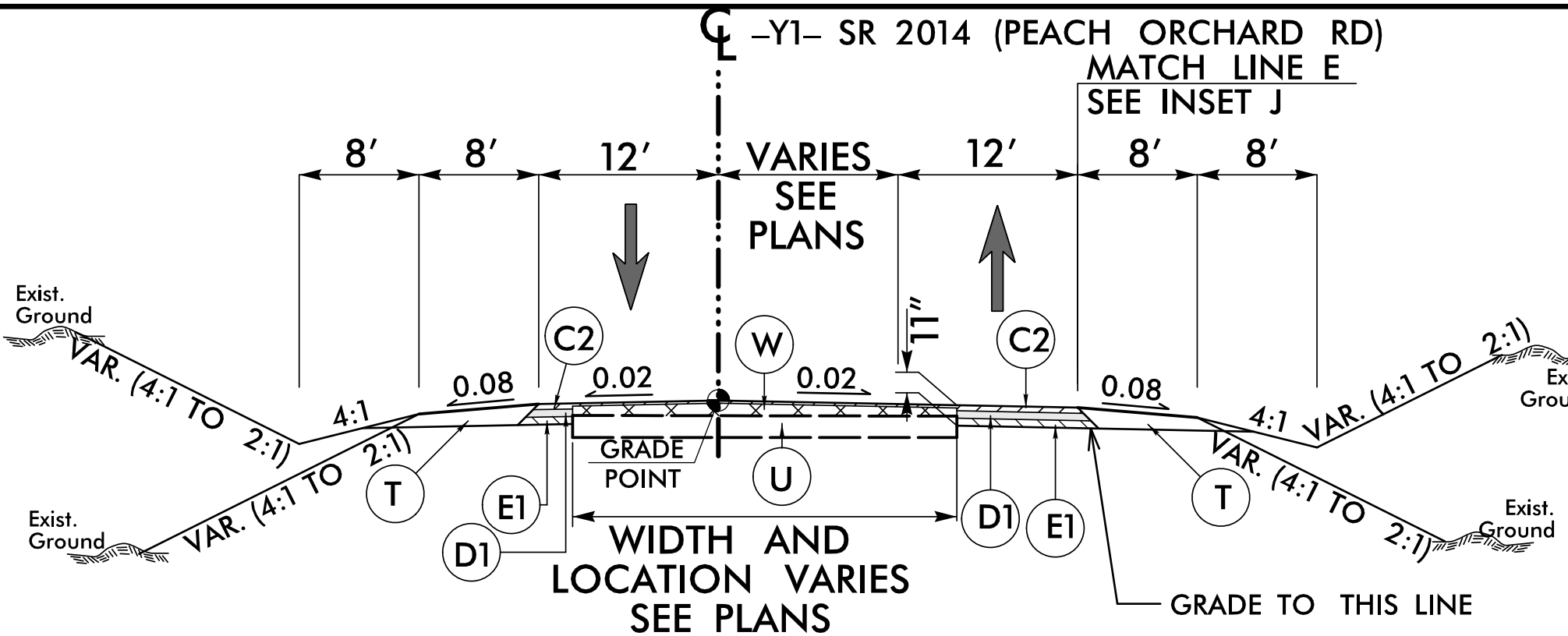
-L- STA 29+25 TO 30+67
-L- STA 35+18 TO 36+75
-L- STA 61+25 TO 64+25, LT

6/2/2026

8/28/2026 U:\Projects\B-5857-Cramerton\Roadway\Pro\U-6146-Rdy.txd

FINAL PAVEMENT SCHEDULE	
C1	1 1/2" S9.5C
C2	3" S9.5C
D1	4" I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
R1	2'-6" C&G
J1	6" ABC
S	SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	1 1/2" MILLING
W	WEDGING
Y1	4" CONC. MUP

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



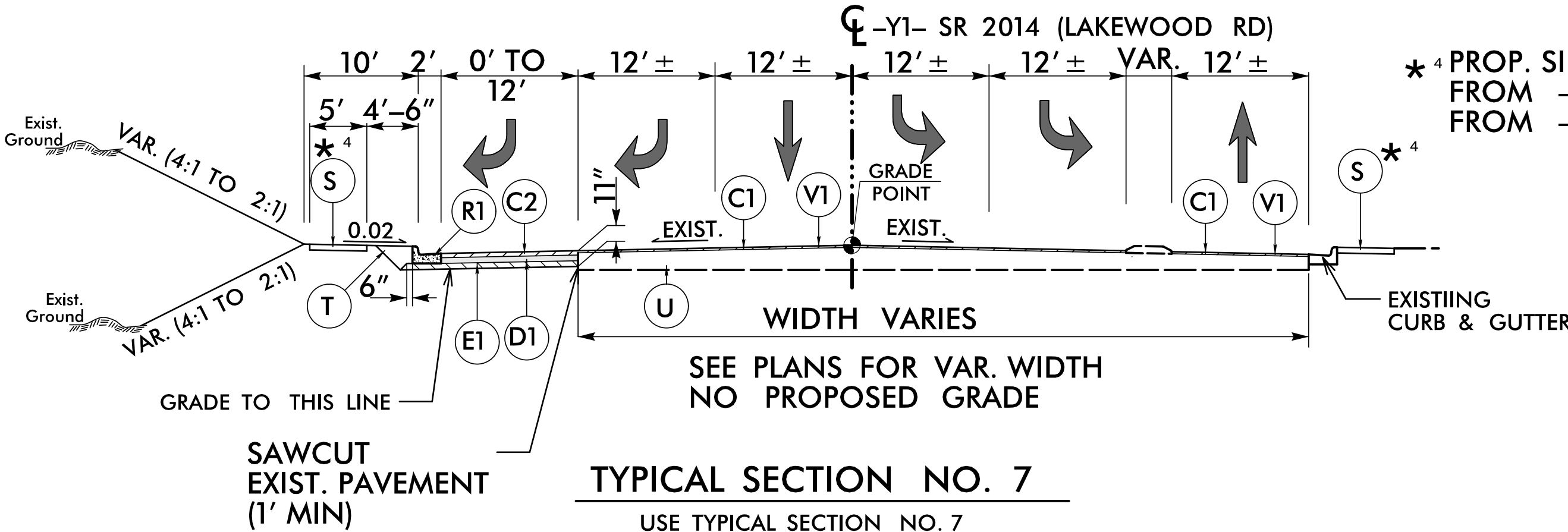
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5

-Y1- STA. 10+50.00 TO -Y1 STA. 12+25.00, RT
-Y1- STA. 10+00.00 TO -Y1- STA. 12+25.00, LT

TRANSITION BETWEEN TYP. SECT. NO. 5 AND EXISTING AS FOLLOWS:

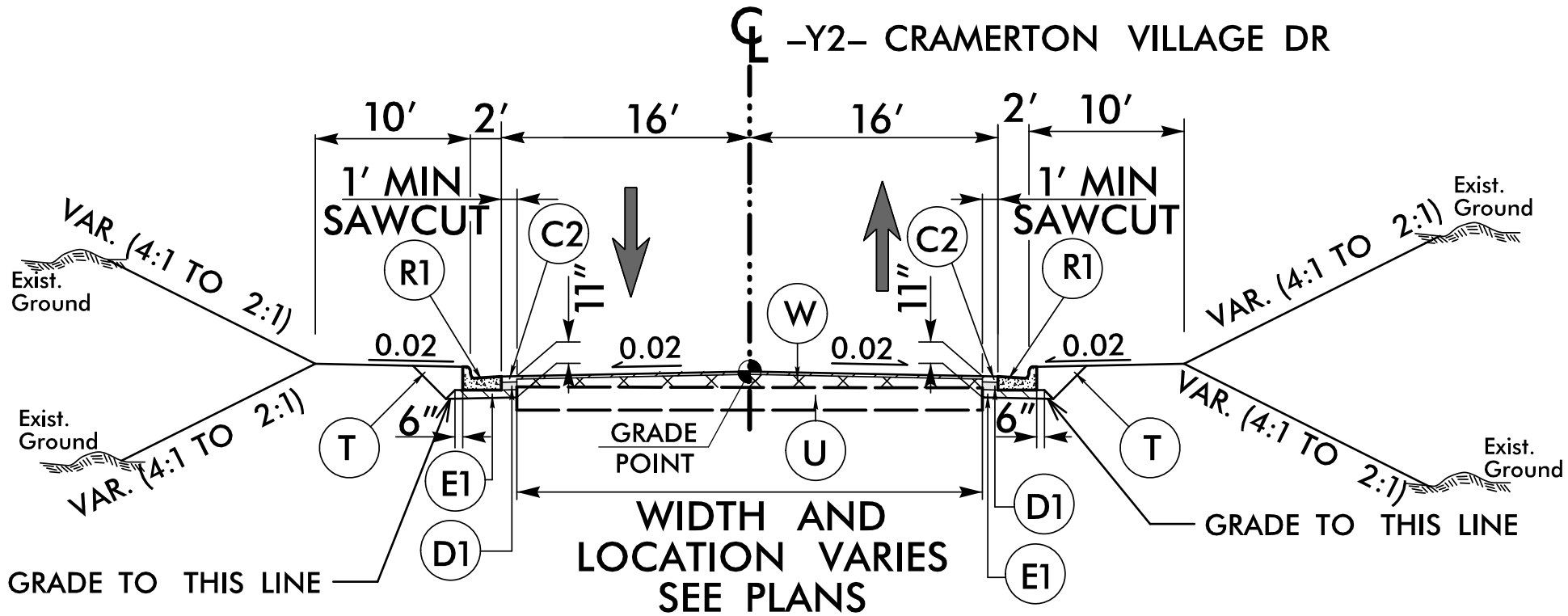
-Y1- STA. 10+00.00 TO -Y1- STA. 10+50.00, RT



TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7

-Y1- STA 16+36.19 TO -Y1- STA. 21+00.00

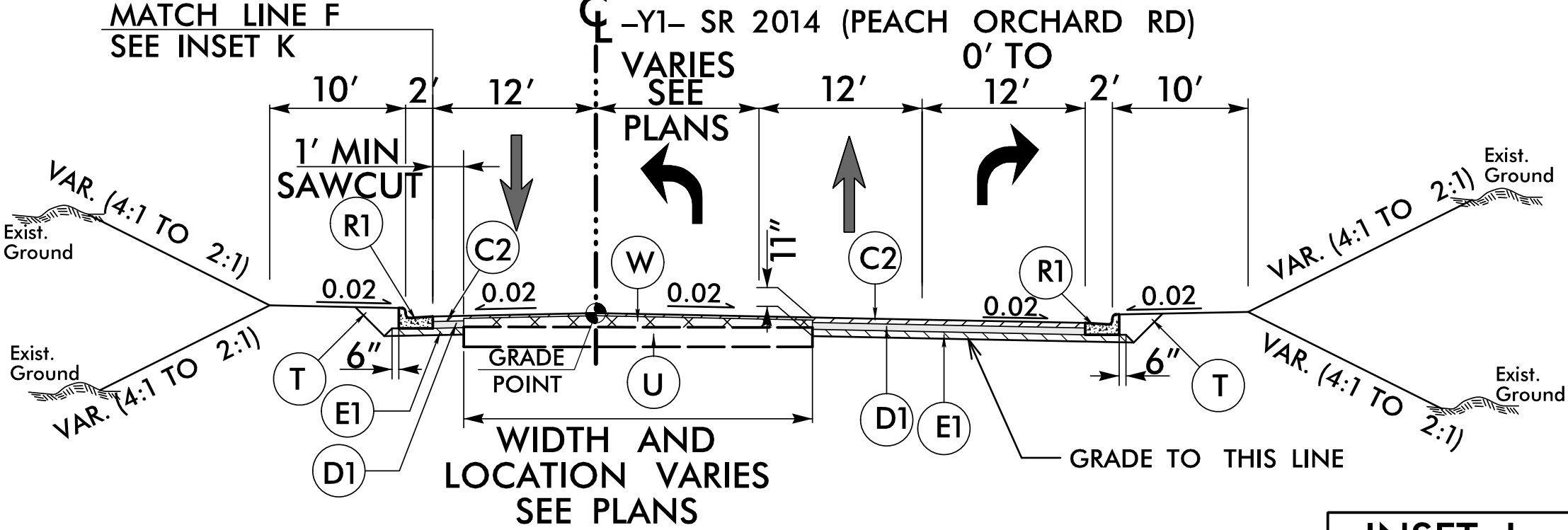


TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8

-Y2- STA. 10+56.76 TO -Y2- STA. 11+55.00

NOTE: USE FULL DEPTH PAVEMENT FROM
-Y1- STA. 12+55.00 TO -Y1 STA. 15+13.49



TYPICAL SECTION NO. 6

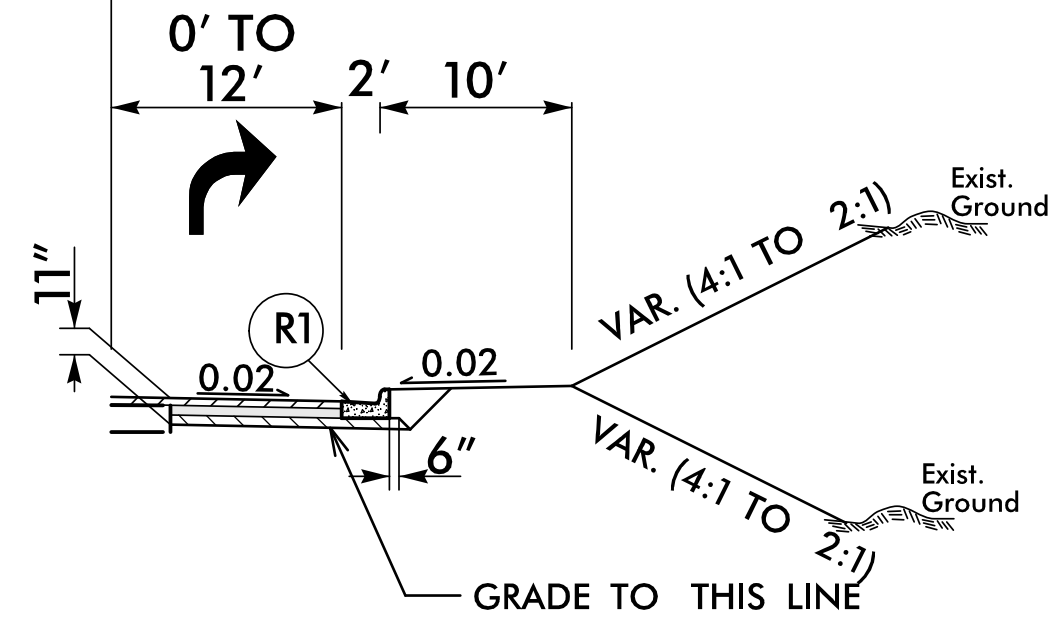
USE TYPICAL SECTION NO. 6

-Y1- STA. 12+25.00 TO -Y1 STA. 15+13.49

* 4 PROP. SIDEWALK
FROM -Y1- STA 16+36.19 TO -Y1- STA. 18+57.72 RT
FROM -Y1- STA 16+36.19 TO -Y1- STA. 20+78.84 LT

INSET J

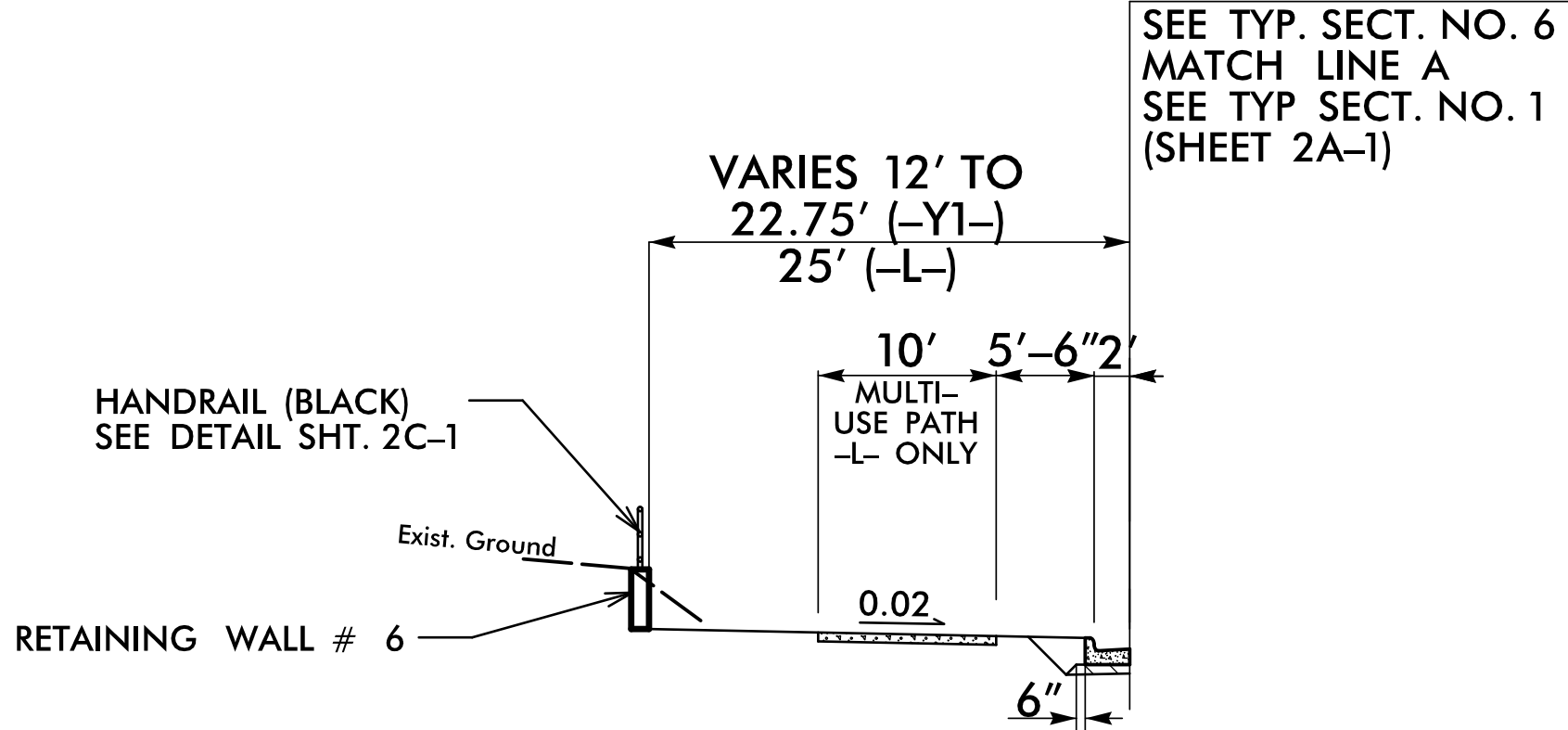
MATCH LINE E
SEE TYP. SECT. NO. 5



USE INSET J:

-Y1- STA. 11+25.00 TO -Y1- STA. 12+25.00, RT

INSET K



USE INSET K:

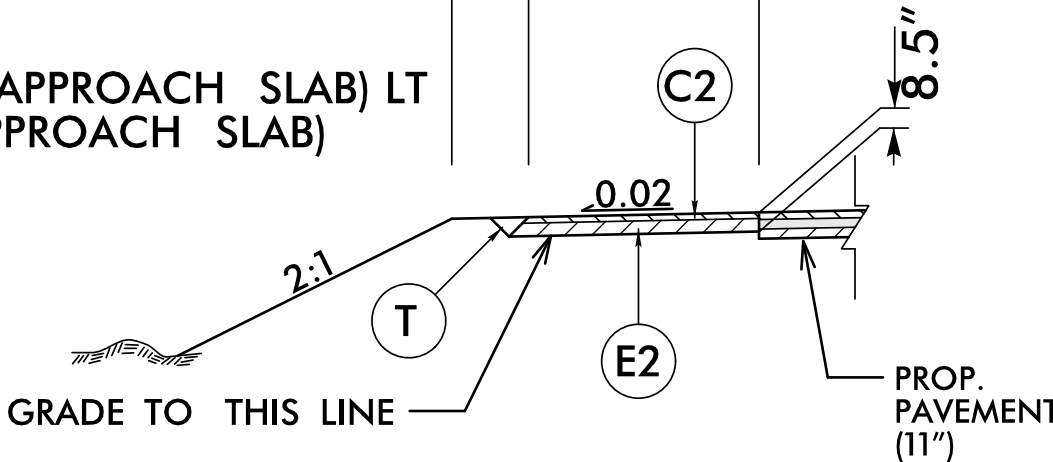
-Y1- STA. 13+44.56 TO -Y1- STA. 15+18.11, LT
-L- STA. 53+85.00 TO 54+70.17, LT

INSET L

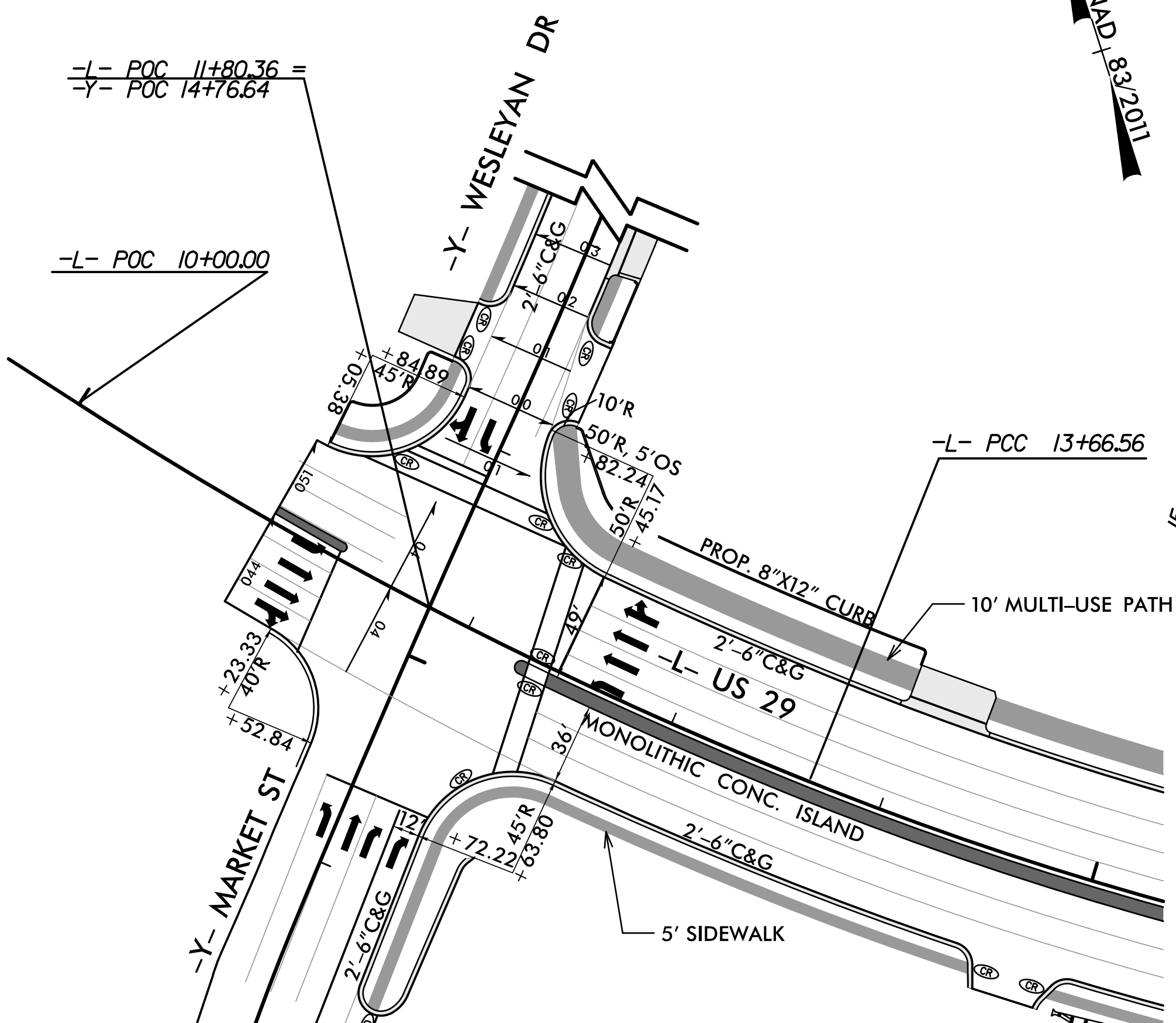
MATCH LINE A
SEE TYP. SECT. NO. 1
(SHEET 2A-1)

USE INSET L:

-L- STA. 28+25 +/- TO
-L- STA. 30+43.27 (BEGIN APPROACH SLAB) LT
-L- STA. 35+42.73 (END APPROACH SLAB)
TO -L- STA. 39+65 +/- LT

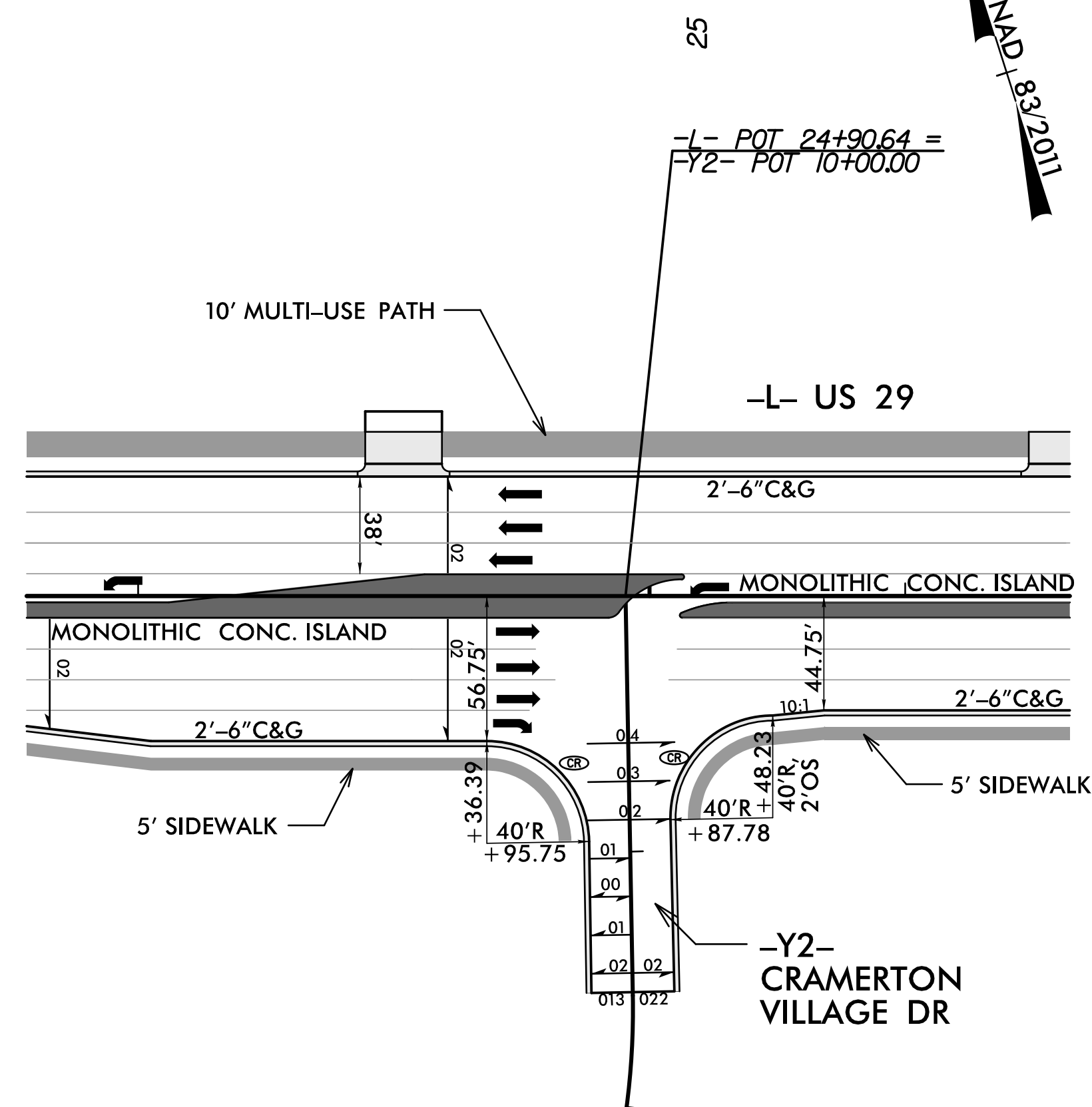


-L- /-Y- INTERSECTION



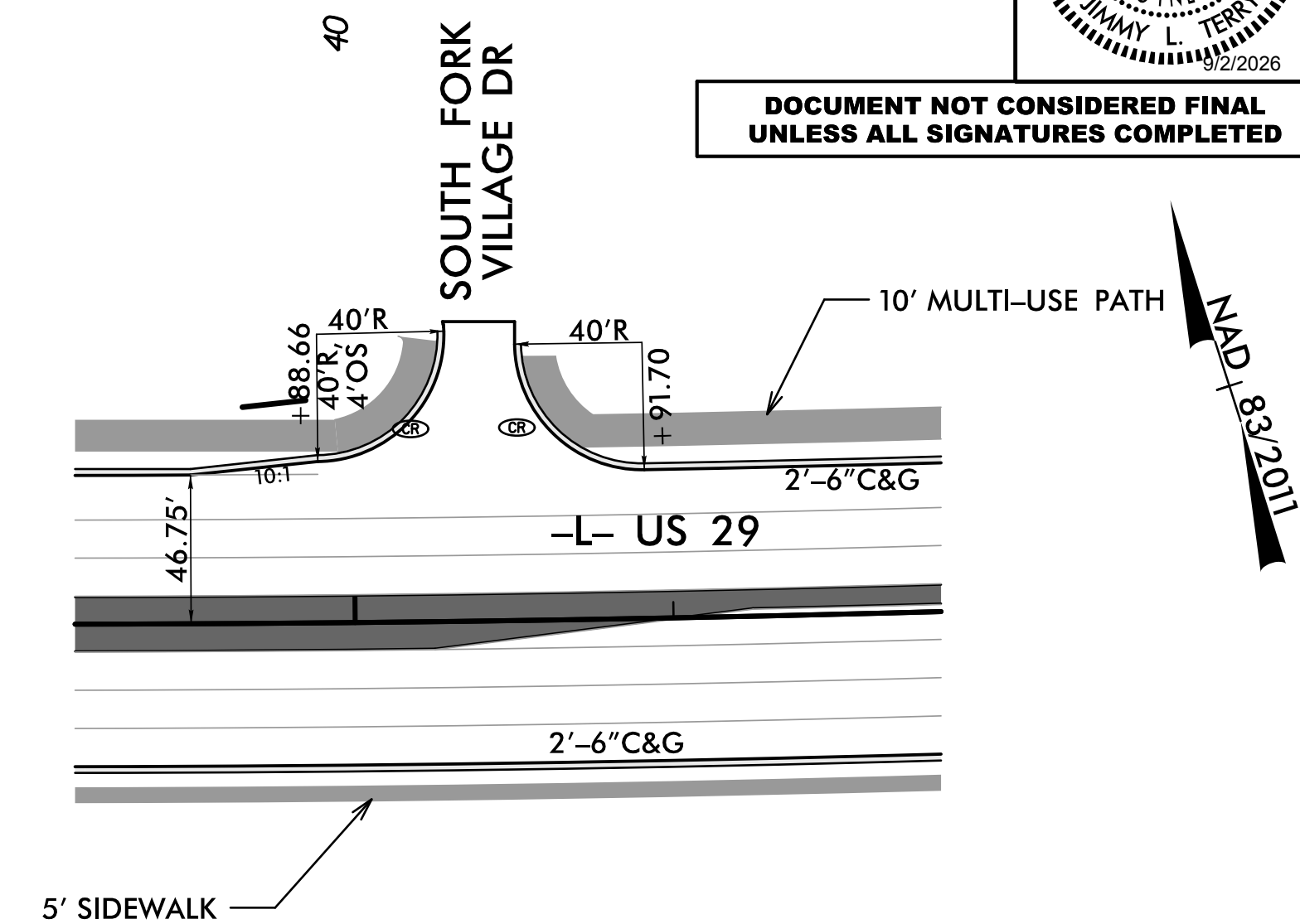
SEE PLAN SHEET NO.4

-L- /-Y2- INTERSECTION



SEE PLAN SHEET NO.5

-L- /SOUTH FORK VILLAGE DR INTERSECTION



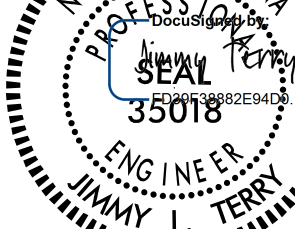
SEE PLAN SHEET NO.6

TGS ENGINEERS
201 W. MARION ST, STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2B-1
RW SHEET NO.	

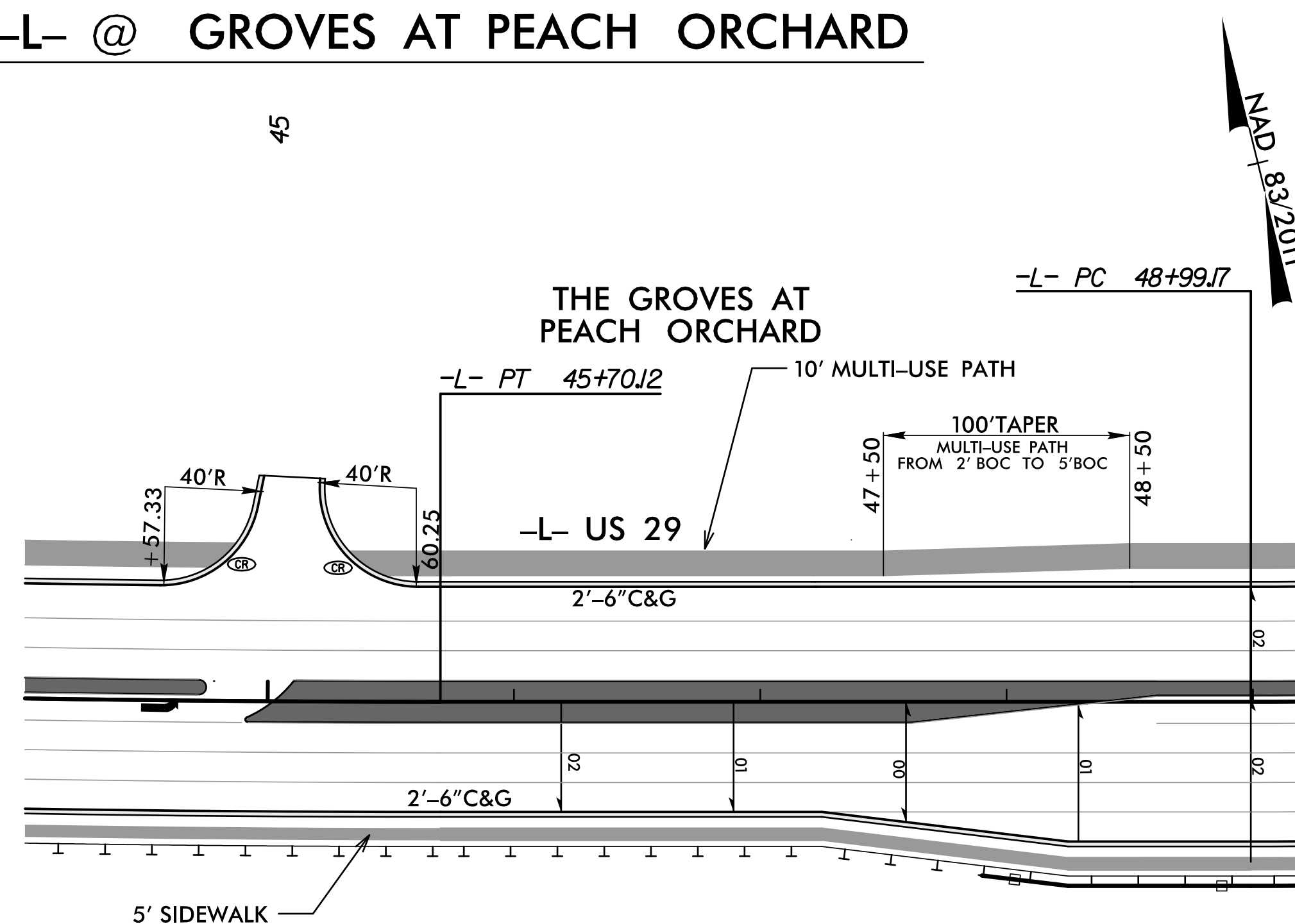
Z

ROADWAY DESIGN
ENGINEER



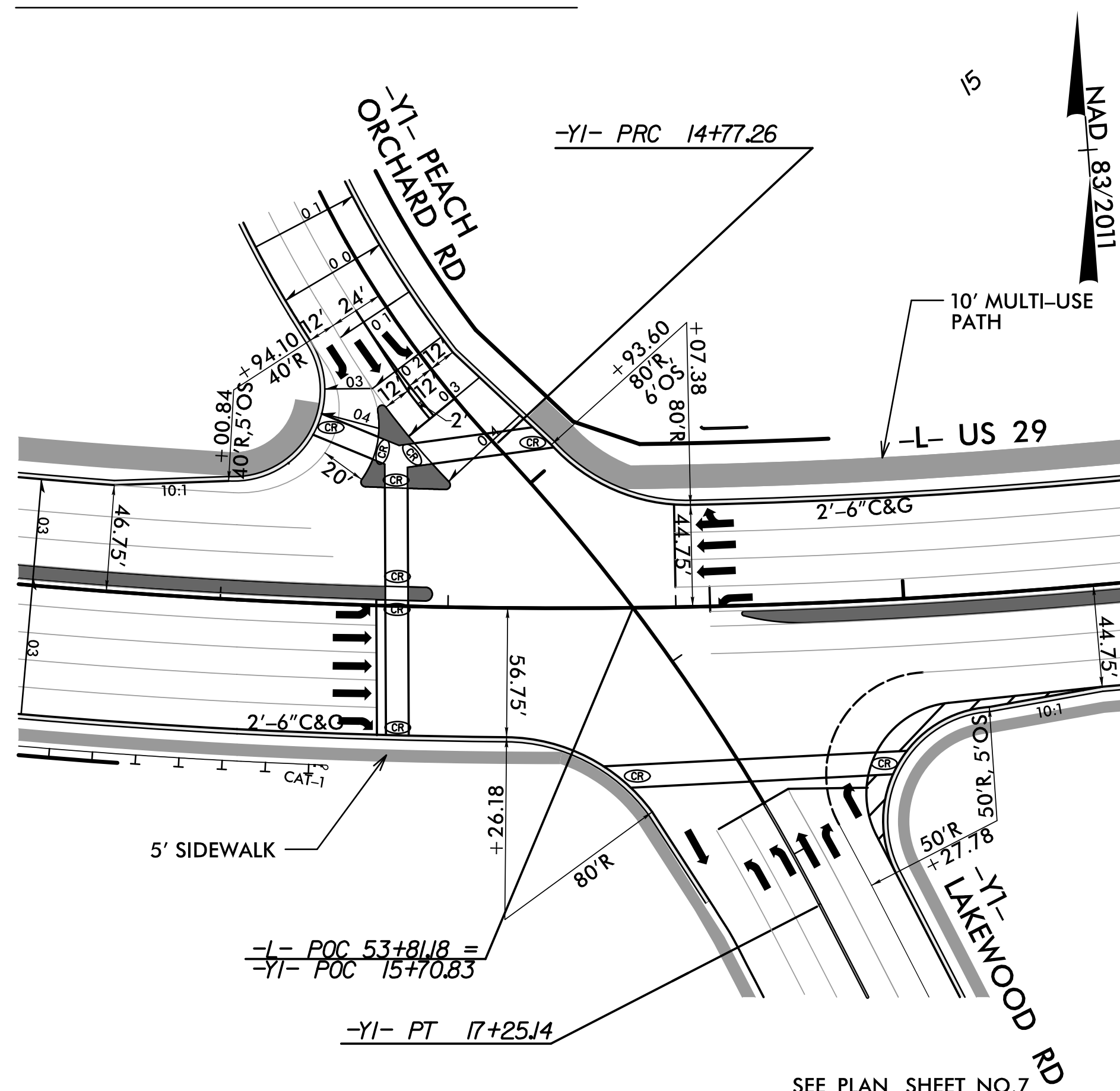
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

—L— @ GROVES AT PEACH ORCHARD



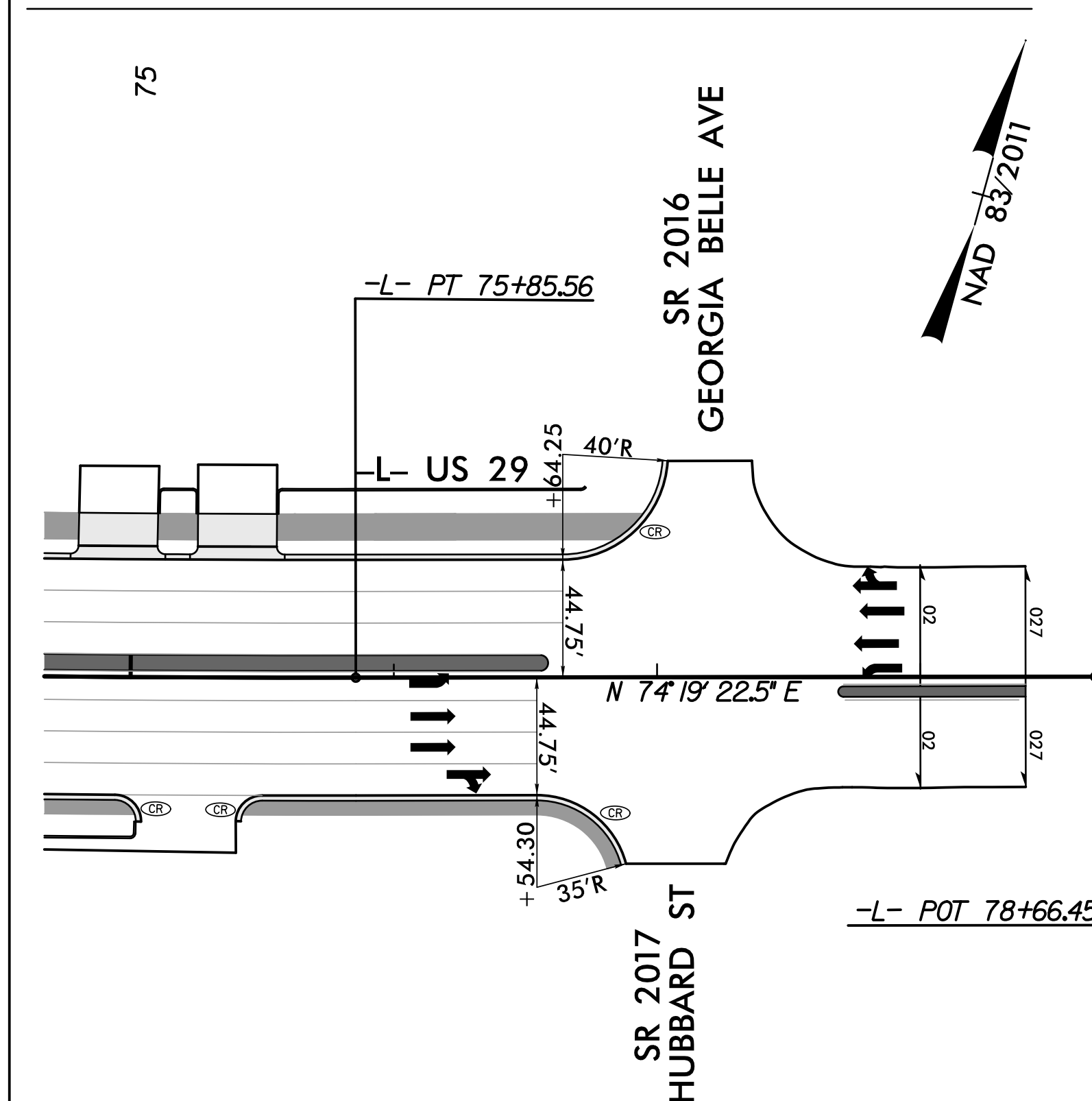
SEE PLAN SHEET NO.6

-L- /-Y1- INTERSECTION



SEE PLAN SHEET NO.7

-L- /SR 2016 /SR 2017 INTERSECTION



SEE PLAN SHEET NO.8

8/17/99

MONOLITHIC CONCRETE ISLAND & CONCRETE CURB LAYOUT:

PROJECT REFERENCE NO.
U-6146/B-5857

SHEET NO.
2B-2

ROADWAY DESIGN
ENGINEER

PROFESSIONAL
SEAL
35018

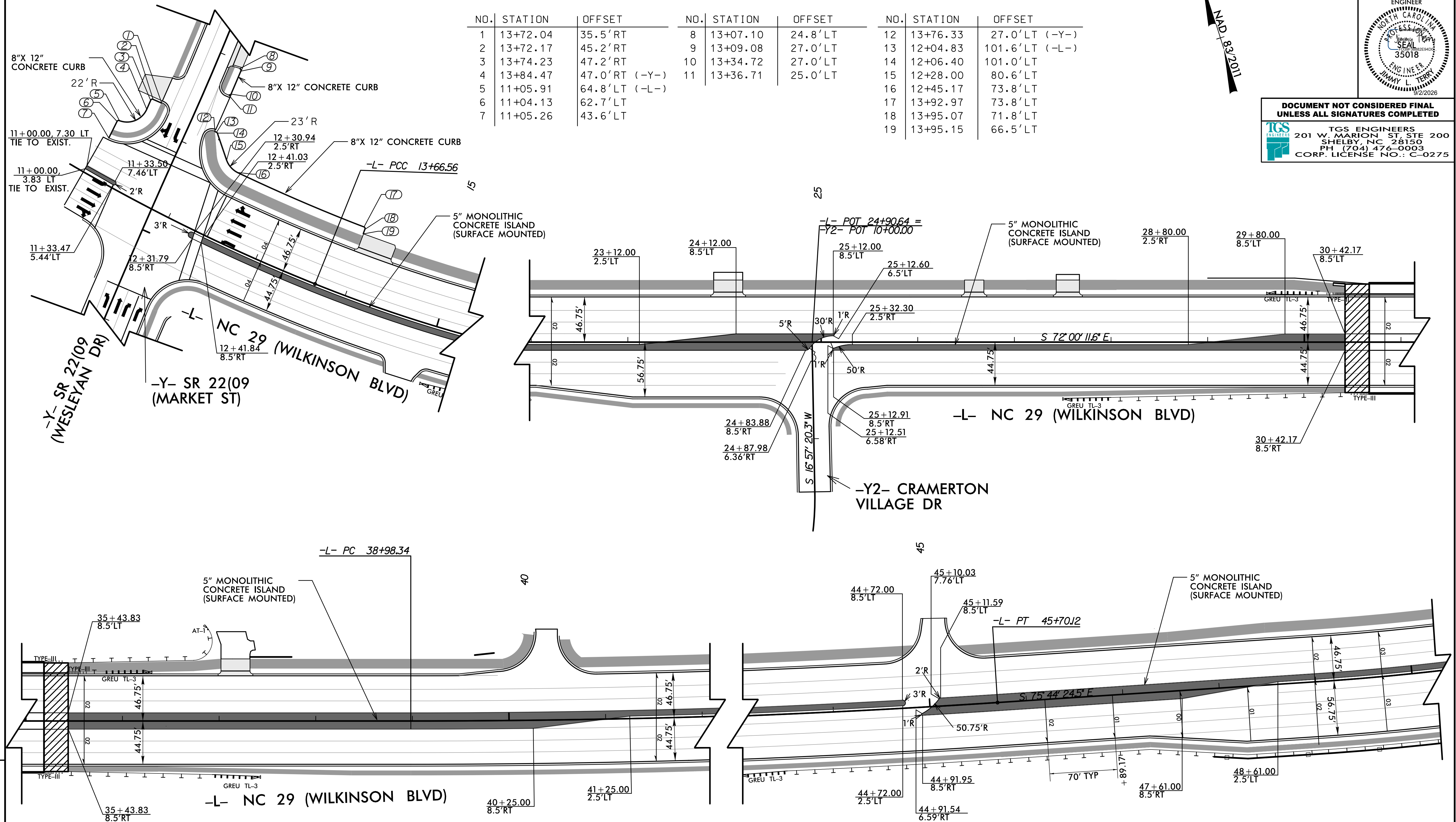
ENGINEER
JIMMY L. TERRY
9/2/2026

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

TGS
ENGINEERS

TGS ENGINEERS
201 W. MARION ST. STE 200
SHELBY, NC 28150
PH: (704) 476-0003
CORP. LICENSE NO.: C-0275

NO.	STATION	OFFSET	NO.	STATION	OFFSET	NO.	STATION	OFFSET
1	13+72.04	35.5' RT	8	13+07.10	24.8' LT	12	13+76.33	27.0' LT (-Y-)
2	13+72.17	45.2' RT	9	13+09.08	27.0' LT	13	12+04.83	101.6' LT (-L-)
3	13+74.23	47.2' RT	10	13+34.72	27.0' LT	14	12+06.40	101.0' LT
4	13+84.47	47.0' RT (-Y-)	11	13+36.71	25.0' LT	15	12+28.00	80.6' LT
5	11+05.91	64.8' LT (-L-)				16	12+45.17	73.8' LT
6	11+04.13	62.7' LT				17	13+92.97	73.8' LT
7	11+05.26	43.6' LT				18	13+95.07	71.8' LT
						19	13+95.15	66.5' LT



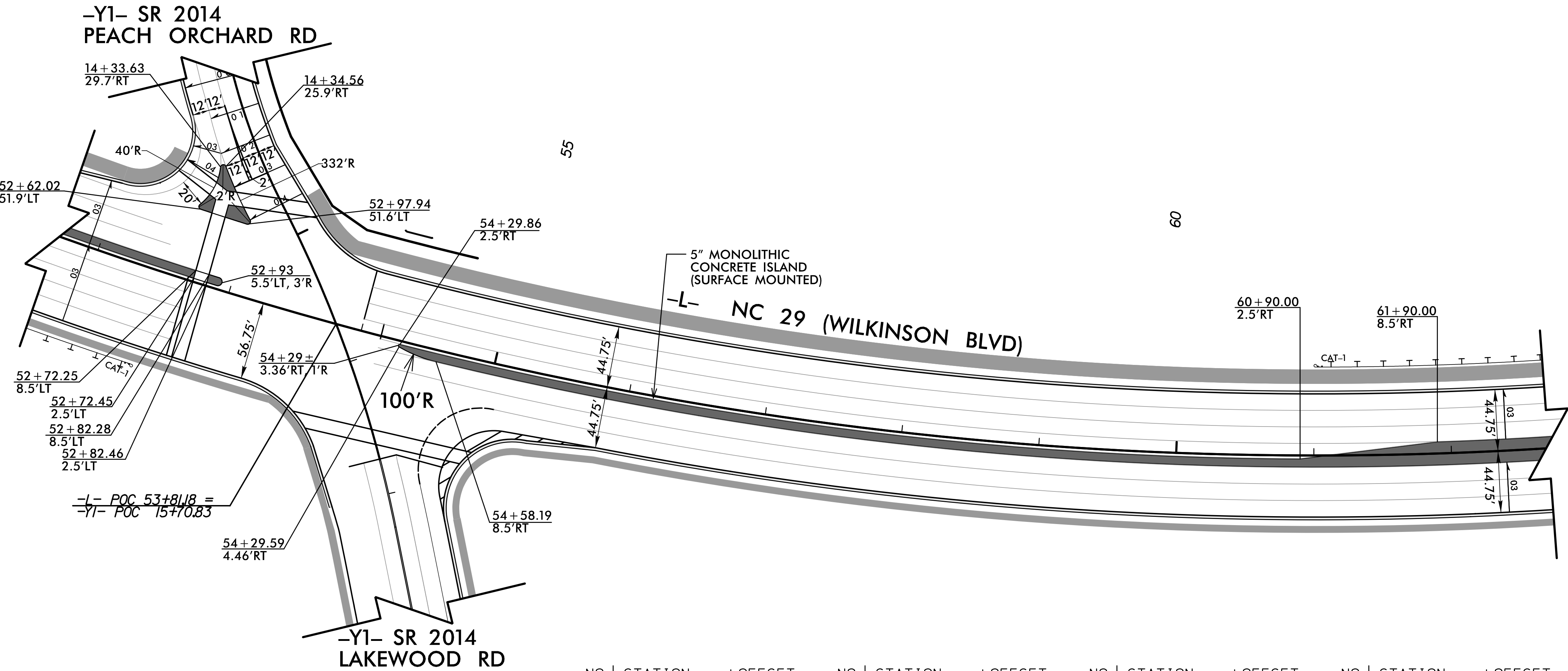
REVISIONS

8/28/2025
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User: jterry

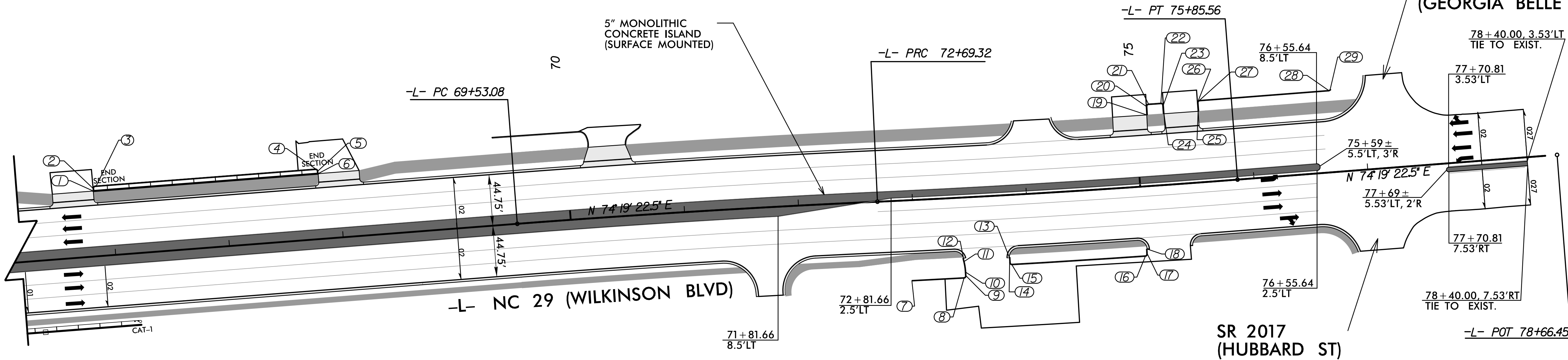
8/17/99

8/28/2025 C:\Users\jerry\OneDrive\Documents\Roadway\Proj\U-6146\B-5857\Islands & Curb Layout.dgn

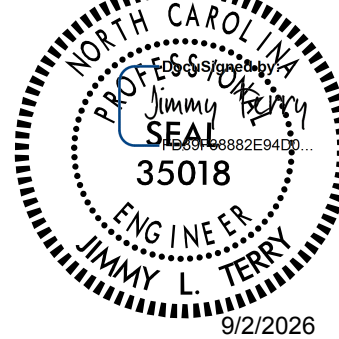
MONOLITHIC CONCRETE ISLAND & CONCRETE CURB LAYOUT:



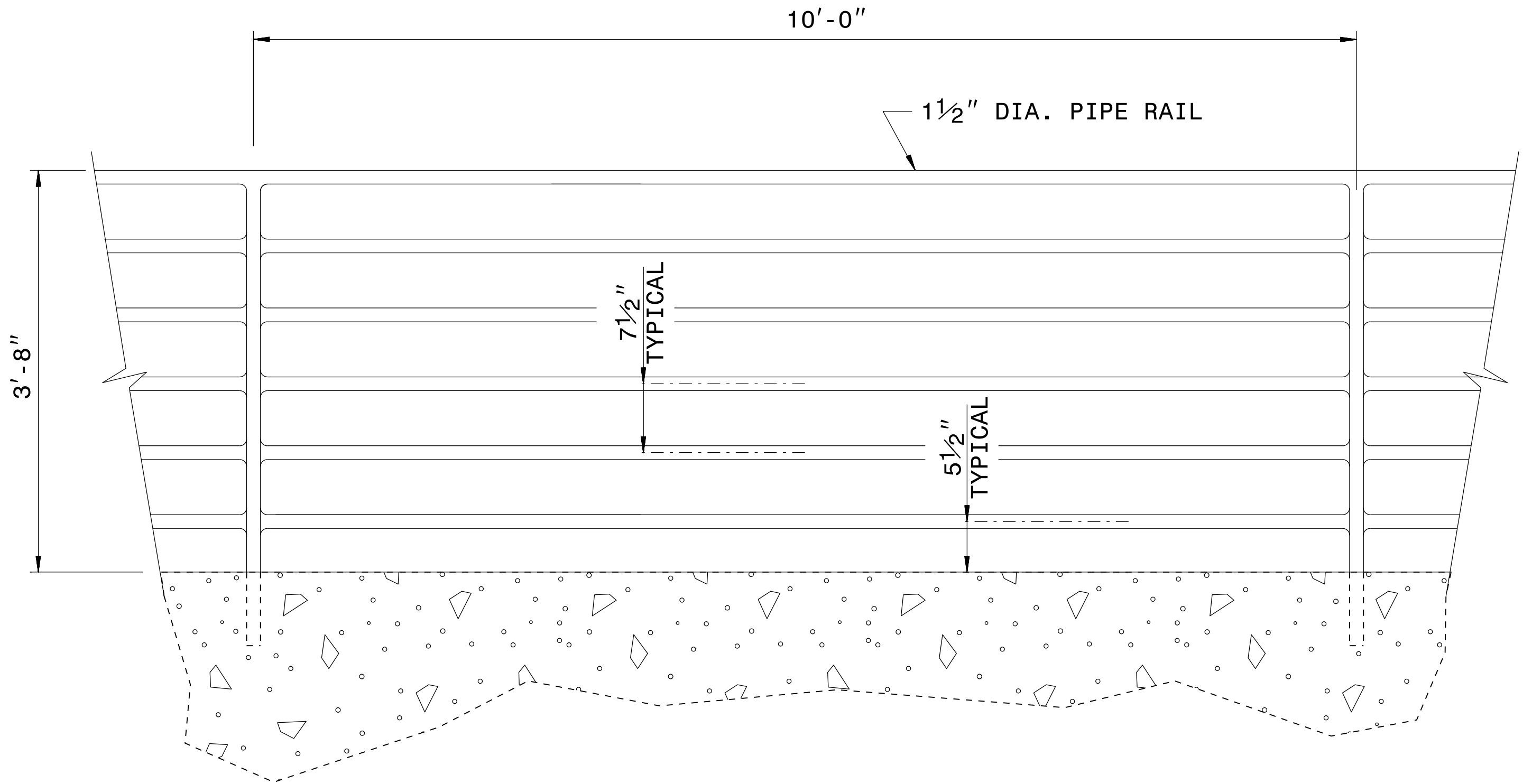
NO.	STATION	OFFSET	NO.	STATION	OFFSET	NO.	STATION	OFFSET	NO.	STATION	OFFSET	NO.	STATION	OFFSET
1	65+84.73	57.3' LT	7	72+96.20	70.9' RT	13	73+81.98	54.7' RT	19	75+10.11	62.3' LT	25	75+55.50	62.2' LT
2	65+84.70	59.6' LT	8	73+41.54	70.8' RT	14	73+81.97	59.2' RT	20	75+10.23	69.8' LT	26	75+55.52	69.8' LT
3	65+87.77	61.7' LT	9	73+43.52	68.7' RT	15	73+83.96	61.3' RT	21	75+12.24	71.8' LT	27	75+57.53	71.8' LT
4	67+80.40	61.6' LT	10	73+43.52	65.6' RT	16	75+00.28	61.3' RT	22	75+23.29	71.8' LT	28	76+71.04	71.8' LT
5	67+82.40	59.6' LT	11	73+42.58	56.0' RT	17	75+02.26	59.3' RT	23	75+25.31	69.8' LT	29	76+42.60	72.5' LT
6	67+82.41	57.3' LT	12	73+42.04	53.2' RT	18	75+02.33	54.9' RT	24	75+25.31	62.3' LT			



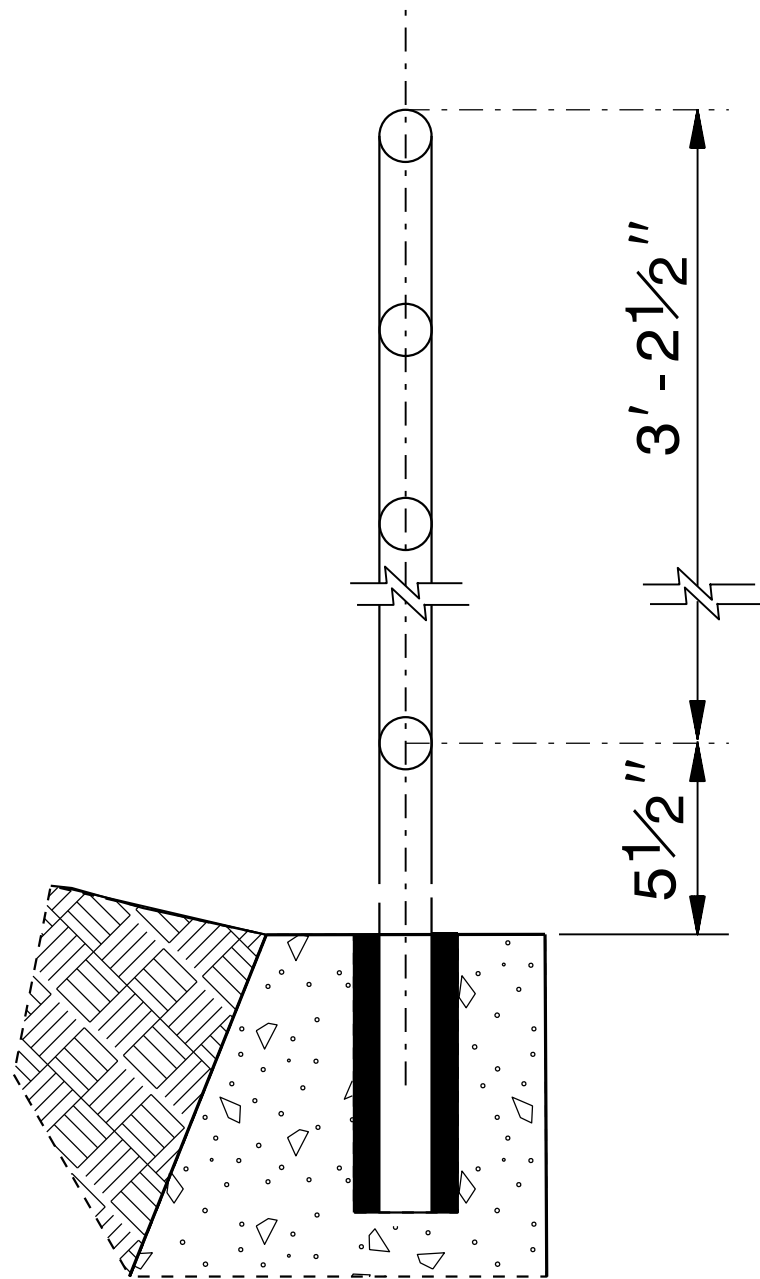
NAD 83 2011

PROJECT REFERENCE NO. U-6146/B-5857	SHEET NO. 2B-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 201 W. MARION ST, STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2C-1



ELEVATION OF HANDRAIL



INSET 'A'

NOTES:

CONSTRUCT PROPOSED STEEL PIPE RAIL 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.

EMBED PIPE RAIL INTO PROPOSED WALL WITH CHEMICAL OR CONCRETE GROUT ANCHORING SYSTEM PER THE WALL MANUFACTURER'S RECOMMENDATIONS.

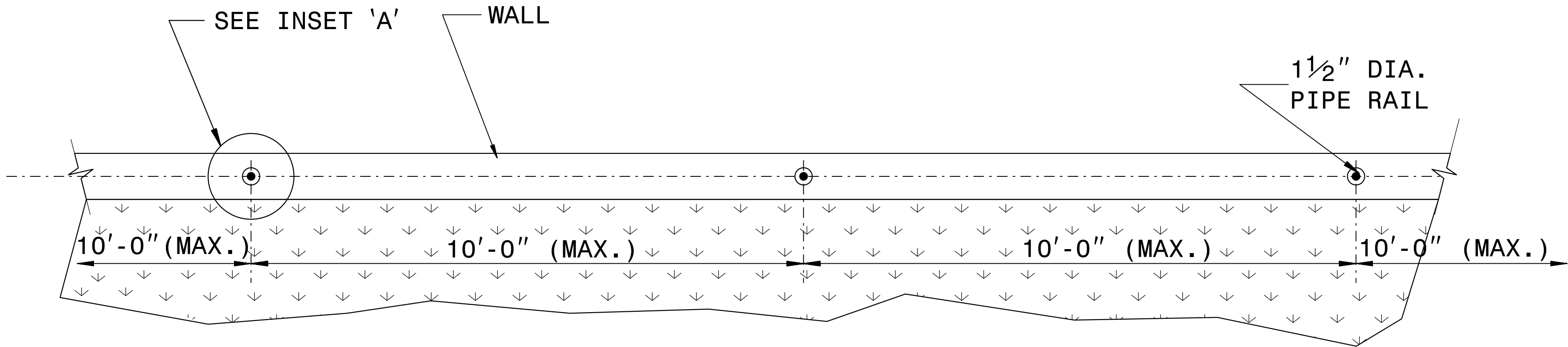
REPAIR GALVANIZING IN ACCORDANCE WITH SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.

PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.

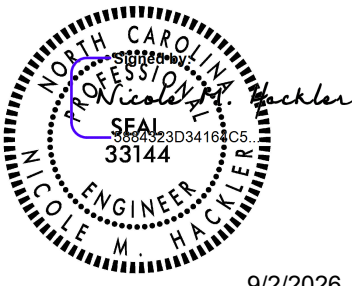
CENTER THE PROPOSED RAILING ON TOP OF THE WALL WITH POST SPACING SYMMETRICAL ABOUT THE CENTER-LINE OF THE WALL.

WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.

SUBMIT THE ATTACHMENT OF THE HANDRAIL TO THE RETAINING WALL TO THE CONTRACTS AND STANDARDS OFFICE FOR APPROVAL.



PLAN VIEW



9/2/2026

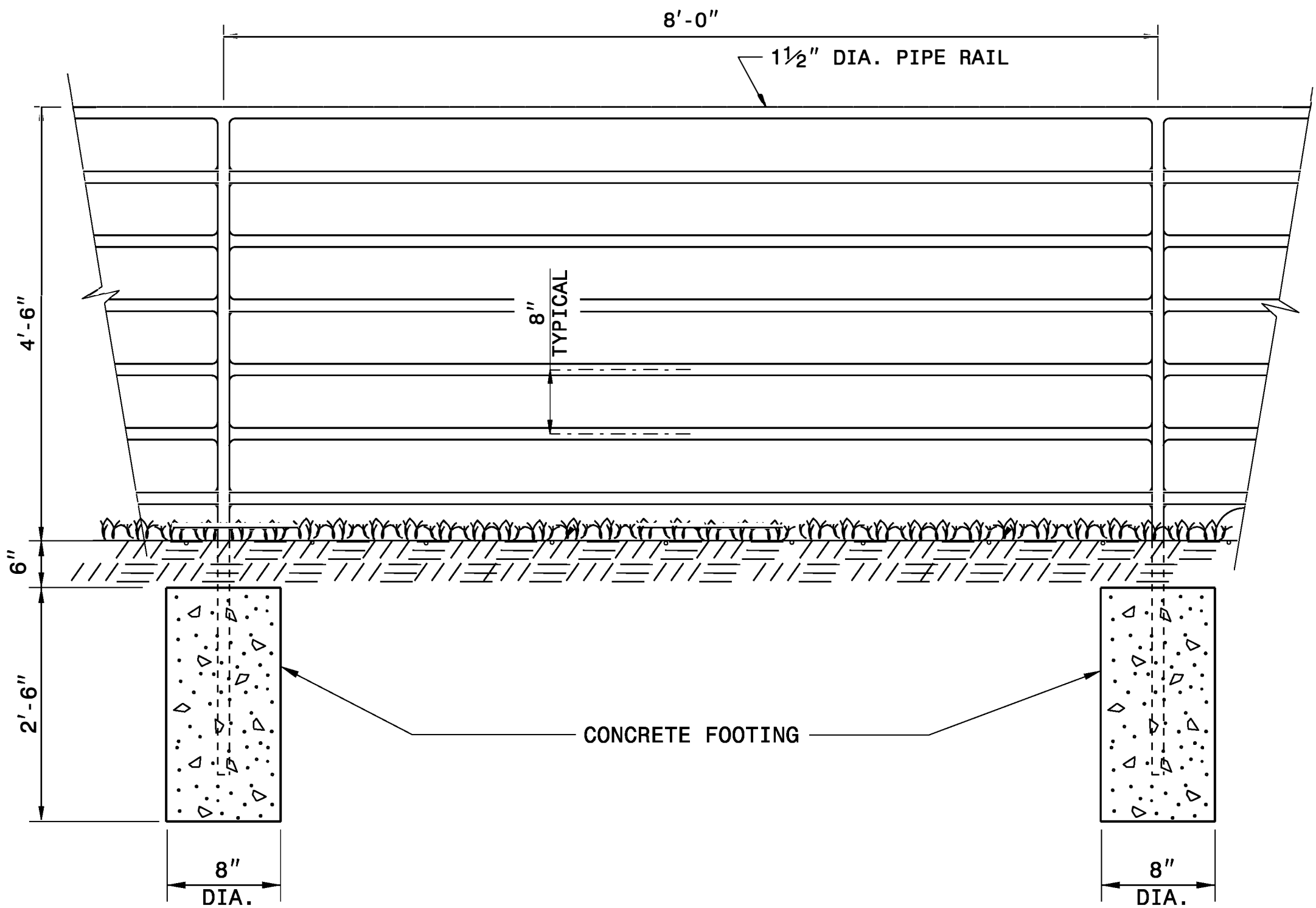
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

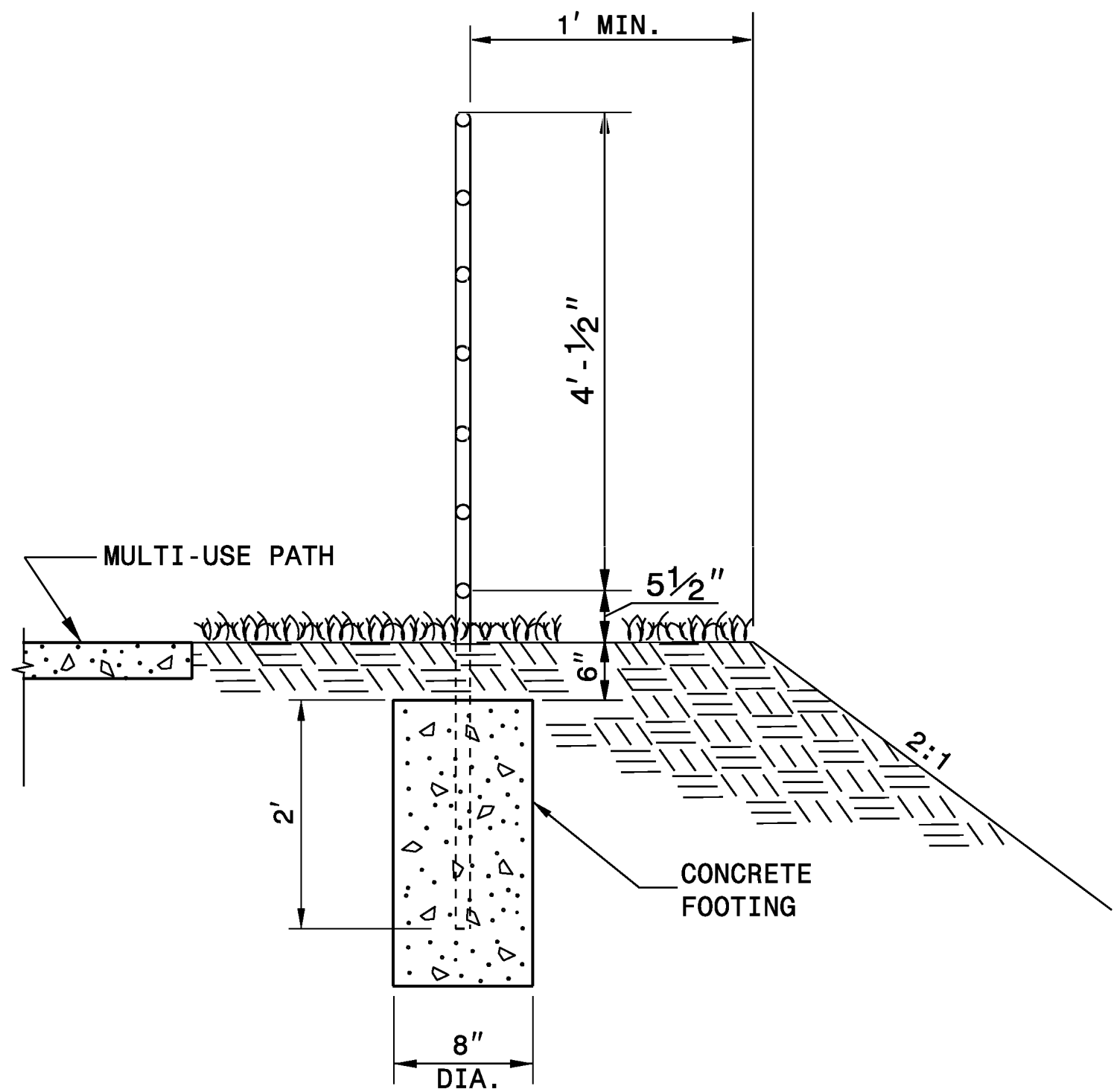
**DETAIL OF PIPE HANDRAIL
MOUNTED ON A WALL**

ORIGINAL BY: E.E. WARD DATE: 12-99
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: jhowerton/handrail_on_retaining_wall.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2C-2



ELEVATION



SECTION VIEW

NOTES:

CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.

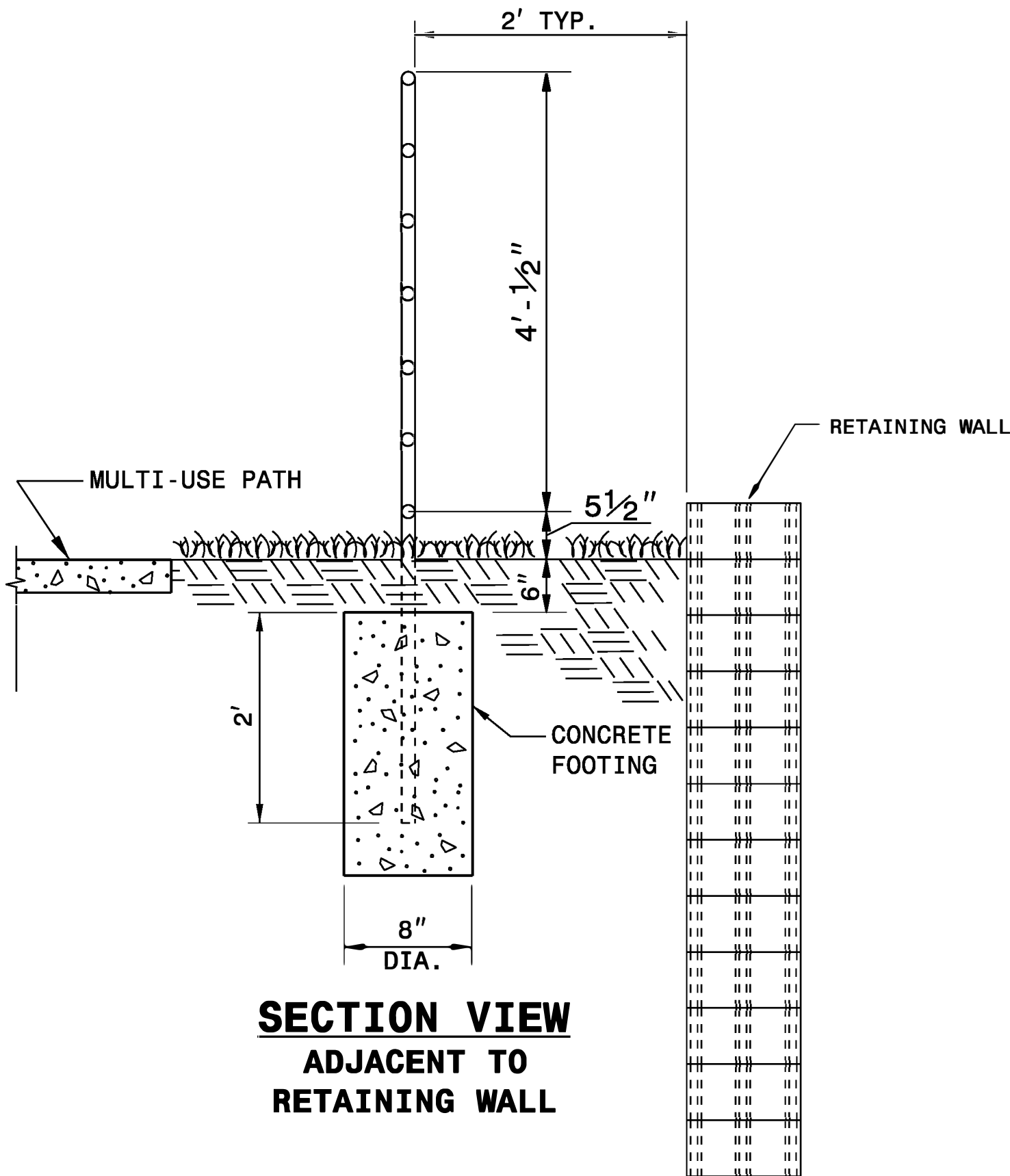
REPAIR GALVANIZING IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1076.

PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1080.

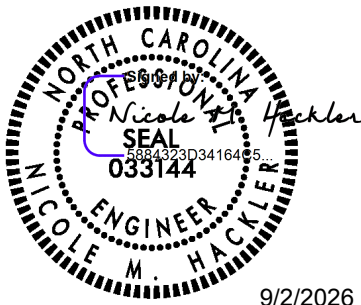
WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.

USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.

PLACEMENT OF HANDRAIL IN RELATION TO SHOULDER BREAK POINT AND PATH MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.



SECTION VIEW
ADJACENT TO
RETAINING WALL



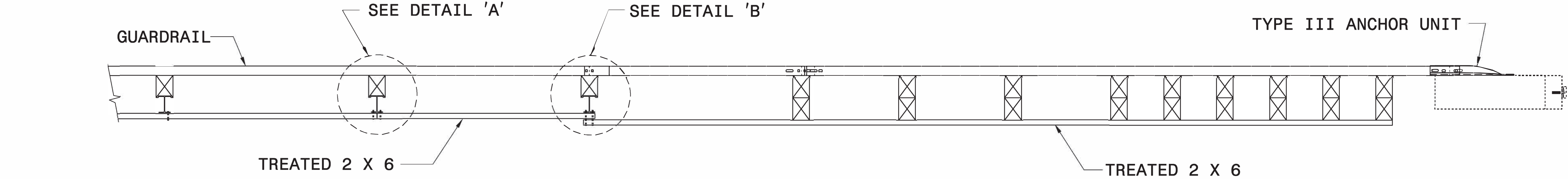
9/2/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

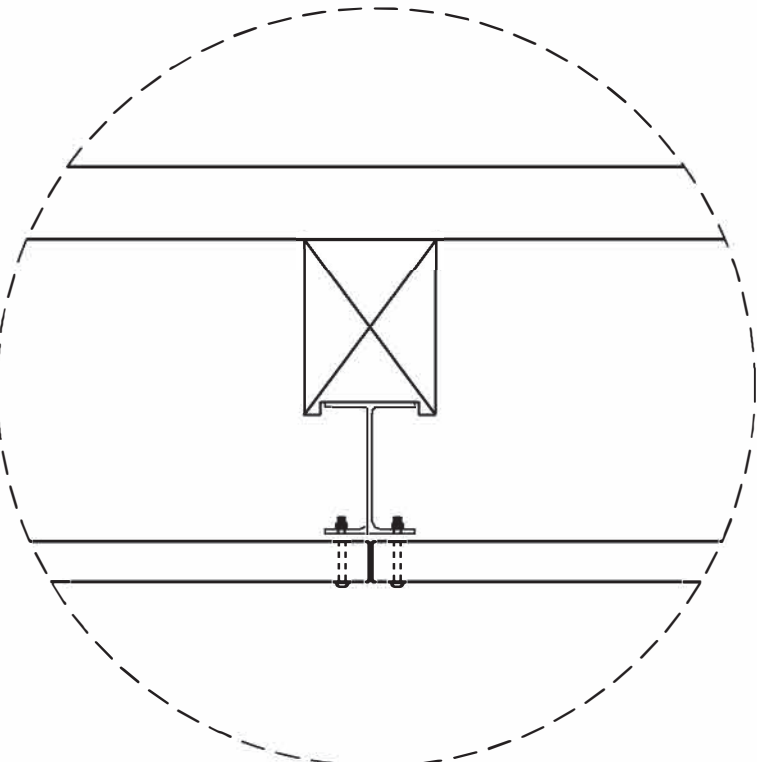
**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119
**BICYCLE / PEDESTRIAN
SAFETY RAIL**

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: K.A. KEMPf DATE: 7-20-23
CHECKED BY: _____ DATE: _____
FILE SPEC.: details\kempf\english\safety rails 2024.dgn

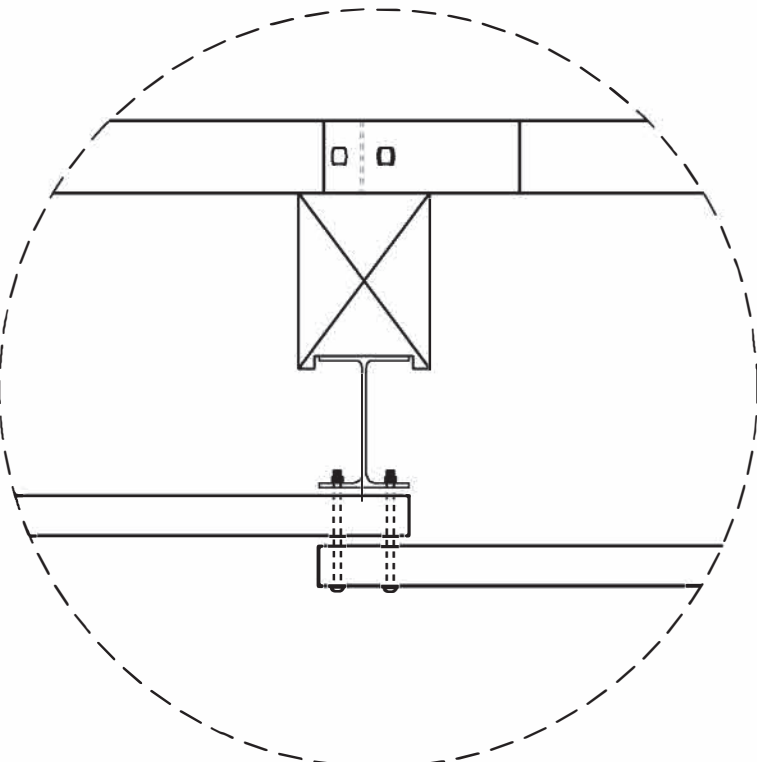
PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2C-3



PLAN

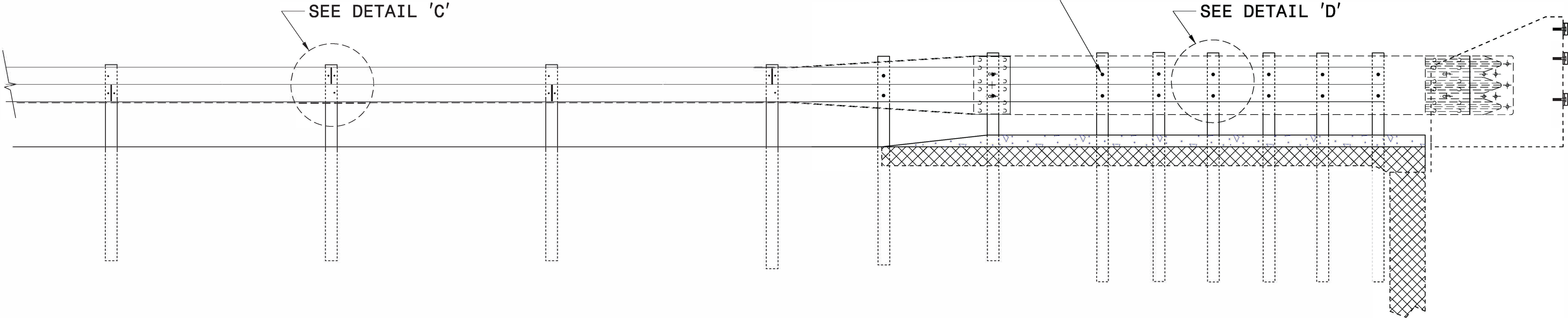


DETAIL 'A'



DETAIL 'B'

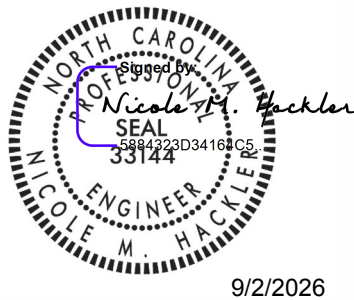
USE BOLTS AND NUTS FROM TYPE III ANCHOR UNIT TO FASTEN 2 X 6 WOOD RAILS TO THE WOOD POSTS - BOLTS MAY NEED TO BE LENGTHENED TO ACCOMMODATE FOR THE 2 X 6 WOOD RAILS.



ELEVATION

NOTES:

1. USE #2 SYP TREATED 2 X 6 FOR WOOD RAIL.
2. USE GUARDRAIL BOLTS TO FASTEN WOOD RAIL TO GUARDRAIL POSTS. SEE ROADWAY STD.NO.862.02.
3. THE MOUNTING HEIGHT OF THE WOOD RAIL TO BE DETERMINED IN THE FIELD.
4. PLACE THE TREATED 2 X 6 WOOD RAIL AS DIRECTED BY THE ENGINEER.
5. DO NOT PLACE WOOD RAIL WITHIN THE PAY LIMITS OF THE GREU TL-3 END UNIT.



CONTRACT STANDARDS AND DEVELOPMENT UNIT PLANS AND STANDARDS SECTION			
Office 919-707-6950		FAX 919-250-4119	
DETAIL OF WOOD RUB RAIL			
ORIGINAL BY:	STD. 8.2	DATE:	1-25-12
MODIFIED BY:		DATE:	
CHECKED BY:		DATE:	
FILE SPEC.:	Jhowerton/Wood Rail on Back of Guardrail		

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
RIGID PIPE

SHEET 2 OF 2
300.01

Diagram showing a pipe in a trench with normal earth foundation. Labels include: TOP OF FILL, GROUND LINE, H, I.D. /6 MIN. NOT LESS THAN 6", O.D. + 3', COMPACT AFTER PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL, NORMAL EARTH FOUNDATION.

Diagram showing a pipe in a trench with rock foundation. Labels include: TOP OF FILL, GROUND LINE, H, I.D. /6 MIN. NOT LESS THAN 6", O.D. + 3', COMPACT AFTER PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL, ROCK, TYPE 4a GEOTEXTILE, I.D. /6 MIN. NOT LESS THAN 6", 1/2" PER FOOT OF 'H' BUT NOT LESS THAN 12" NOR MORE THAN 24" AS DIRECTED BY ENGR., UNSUITABLE MATERIAL FOUNDATION.

Diagram showing a pipe in a trench with unsuitable material foundation. Labels include: TOP OF FILL, GROUND LINE, H, I.D. /6 MIN. NOT LESS THAN 6", O.D. + 3', COMPACT AFTER PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL, EARTH, TYPE 4a GEOTEXTILE, I.D. /6 MIN. NOT LESS THAN 6", 1/2" PER FOOT OF 'H' BUT NOT LESS THAN 12" NOR MORE THAN 24" AS DIRECTED BY ENGR., UNSUITABLE MATERIAL FOUNDATION.

Diagram showing a pipe above ground with normal earth foundation. Labels include: TOP OF FILL, GROUND LINE, H, MIN. O.D., I.D. /6 MIN. NOT LESS THAN 6", O.D. + 2', COMPACT AFTER PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL, NORMAL EARTH FOUNDATION.

Diagram showing a pipe above ground with rock foundation. Labels include: TOP OF FILL, GROUND LINE, H, MIN. O.D., I.D. /6 MIN. NOT LESS THAN 6", O.D. + 2', COMPACT AFTER PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL, ROCK, TYPE 4a GEOTEXTILE, I.D. /6 MIN. NOT LESS THAN 6", 1/2" PER FOOT OF 'H' BUT NOT LESS THAN 12" NOR MORE THAN 24" AS DIRECTED BY ENGINEER, UNSUITABLE MATERIAL FOUNDATION.

Diagram showing a pipe above ground with unsuitable material foundation. Labels include: TOP OF FILL, GROUND LINE, H, MIN. O.D., I.D. /6 MIN. NOT LESS THAN 6", O.D. + 2', COMPACT AFTER PIPE IS PLACED & PRIOR TO PLACEMENT OF FILL, EARTH, TYPE 4a GEOTEXTILE, I.D. /6 MIN. NOT LESS THAN 6", 1/2" PER FOOT OF 'H' BUT NOT LESS THAN 12" NOR MORE THAN 24" AS DIRECTED BY ENGINEER, UNSUITABLE MATERIAL FOUNDATION.

GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

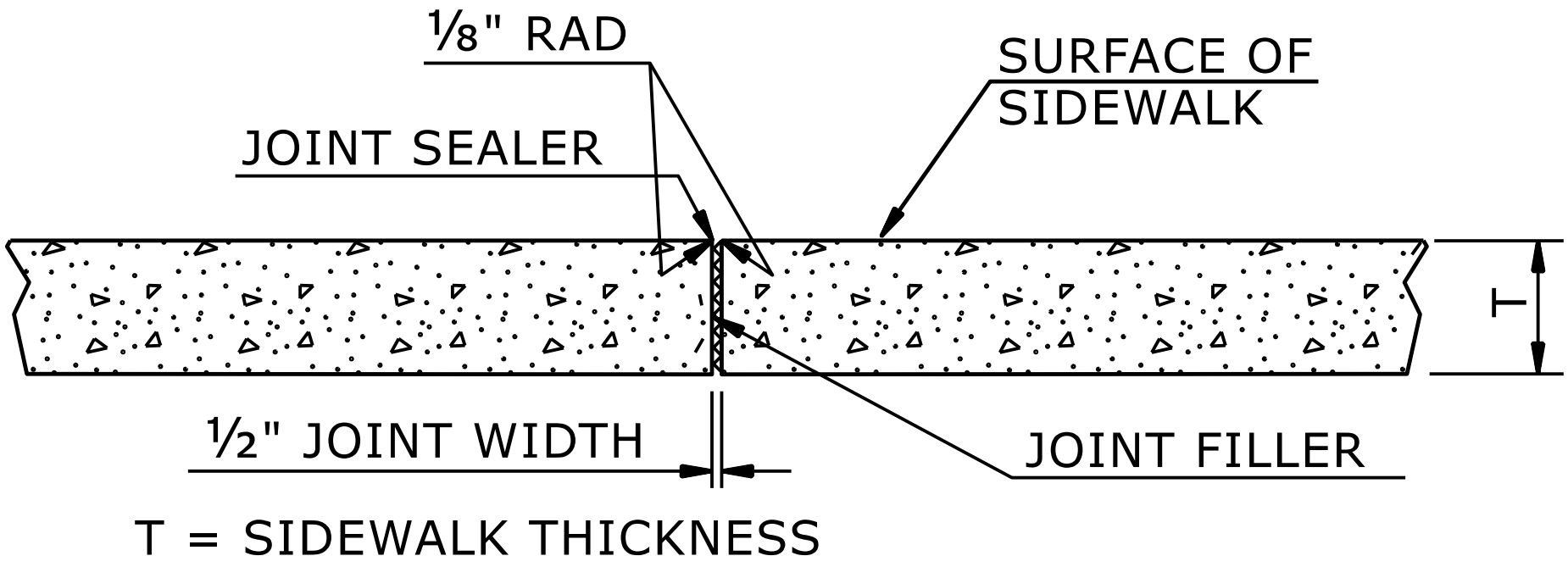
ORIGINAL BY:	S.CALHOUN	DATE:	7-25-2024
MODIFIED BY:		DATE:	
CHECKED BY:		DATE:	
FILE SPEC.:			

NOTES:

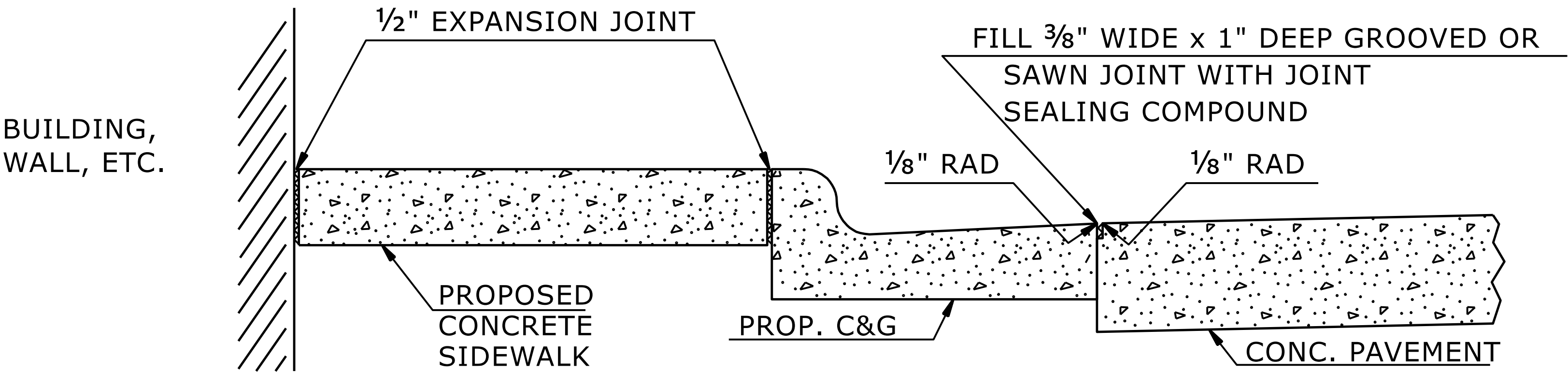
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



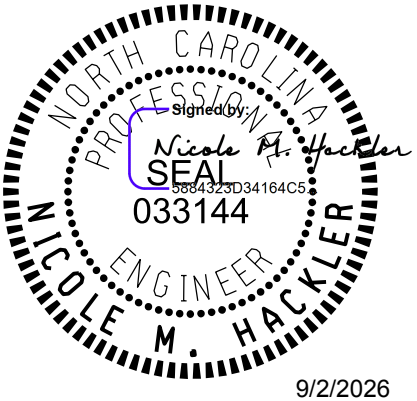
TRANSVERSE EXPANSION JOINT
IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK



SHEET 1 OF 1
848D01

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

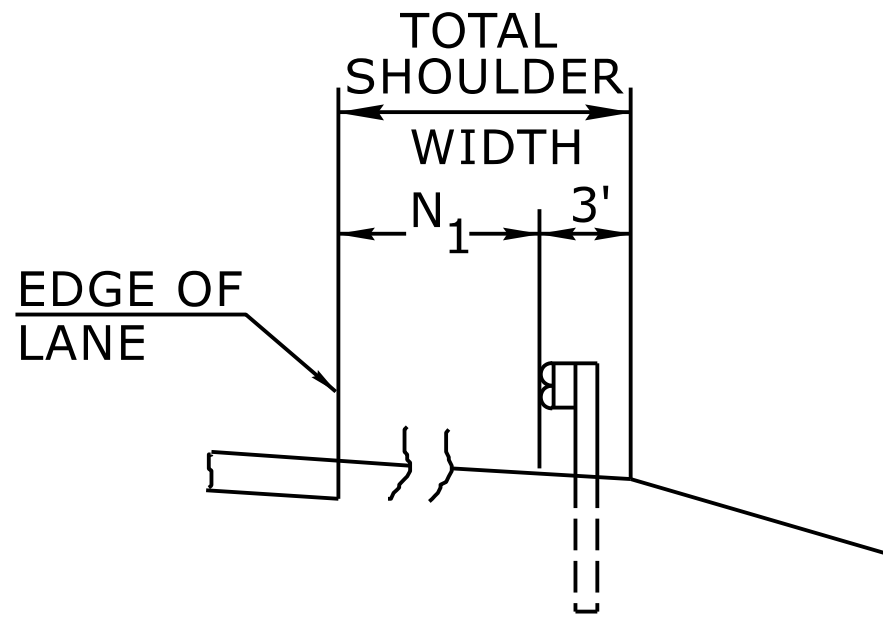
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950 FAX 919-250-4119

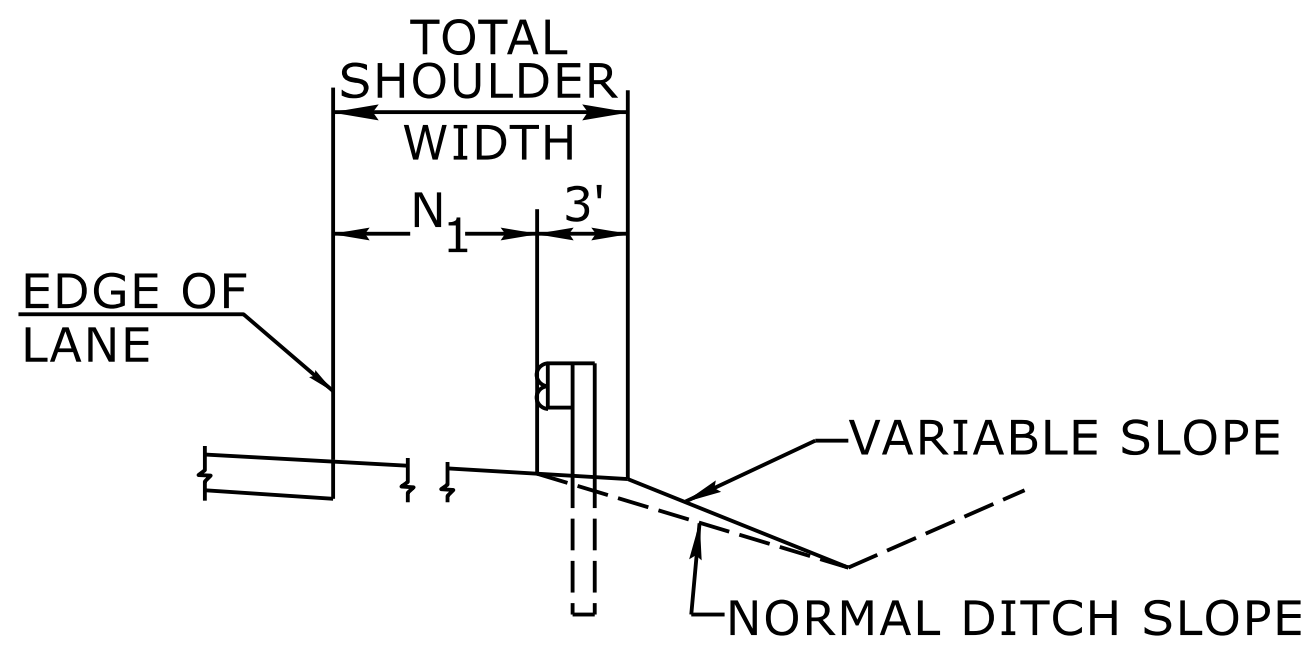
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:

PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2C-7

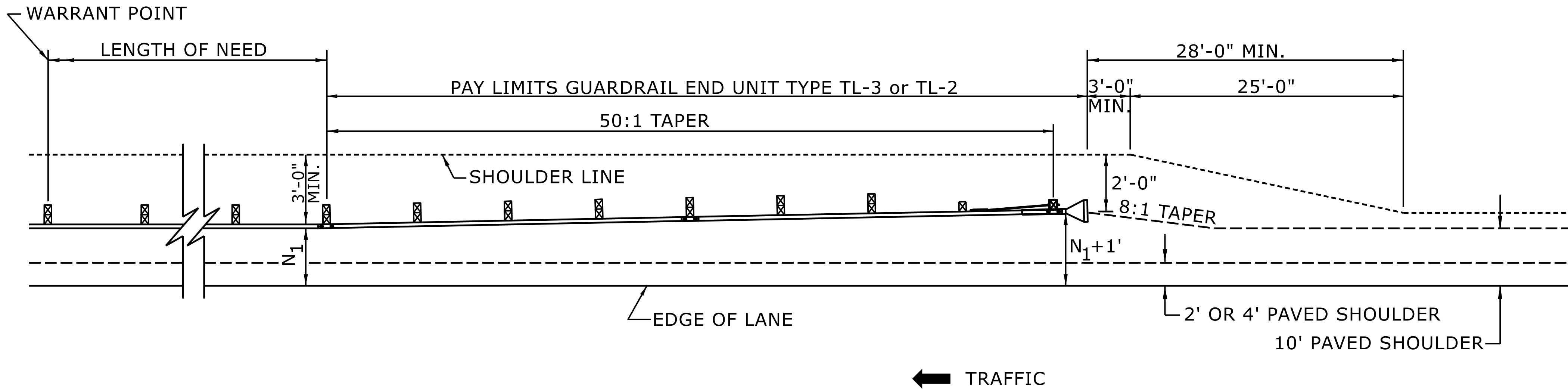


FILL SECTION



CUT SECTION

"N₁"= DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS PARALLEL TO LANE.



FOR POSTED SPEEDS ≥ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS < 45mph USE GREU TYPE TL-2

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 6 OF 15
862D01



9/2/2026

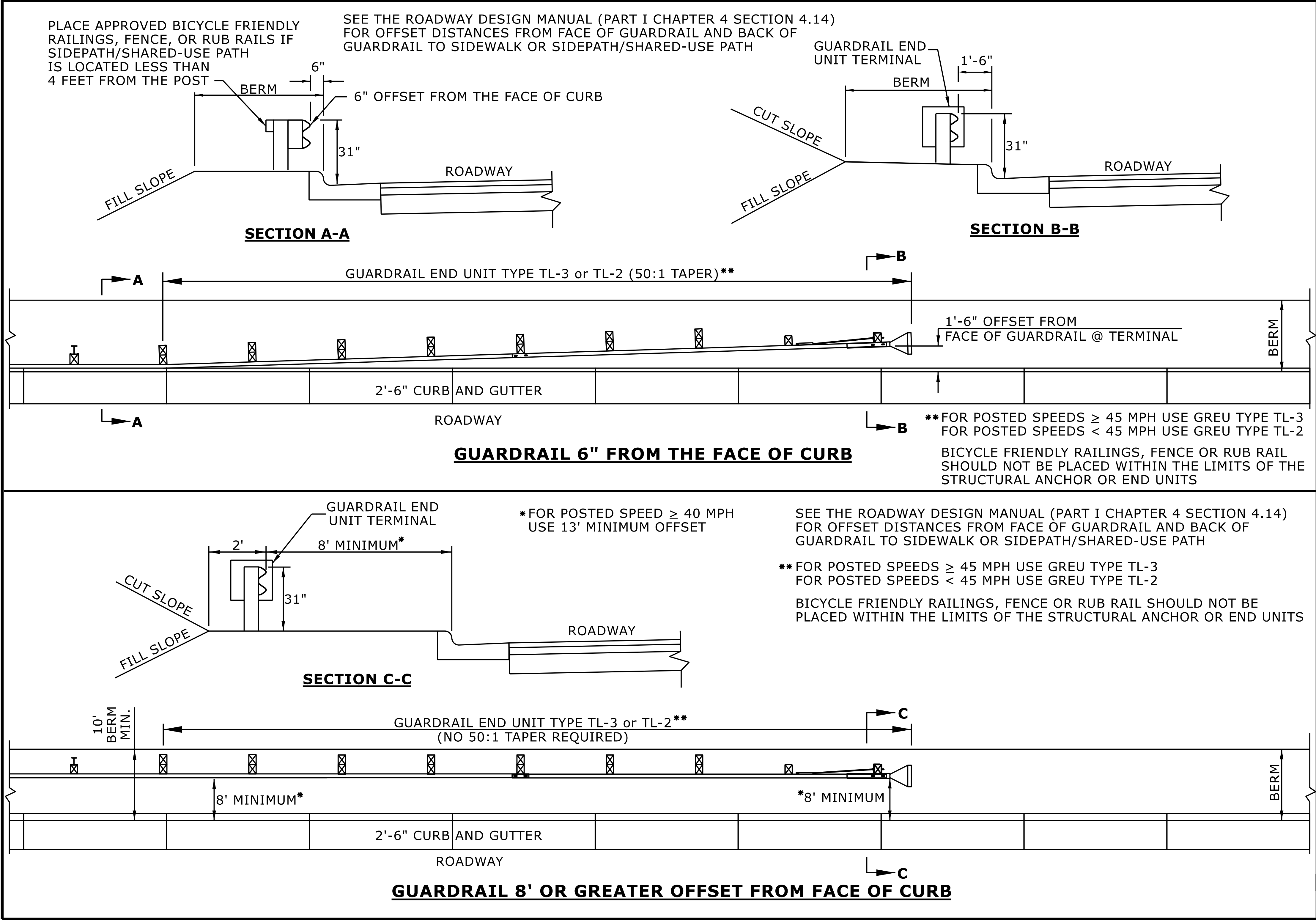
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

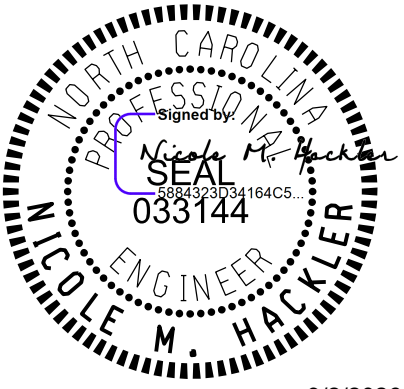
ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:



STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT
GUARDRAIL TREATMENT AT CURB AND GUTTER

SHEET 12 OF 15
862D01



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN	DATE: 7-25-2024
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

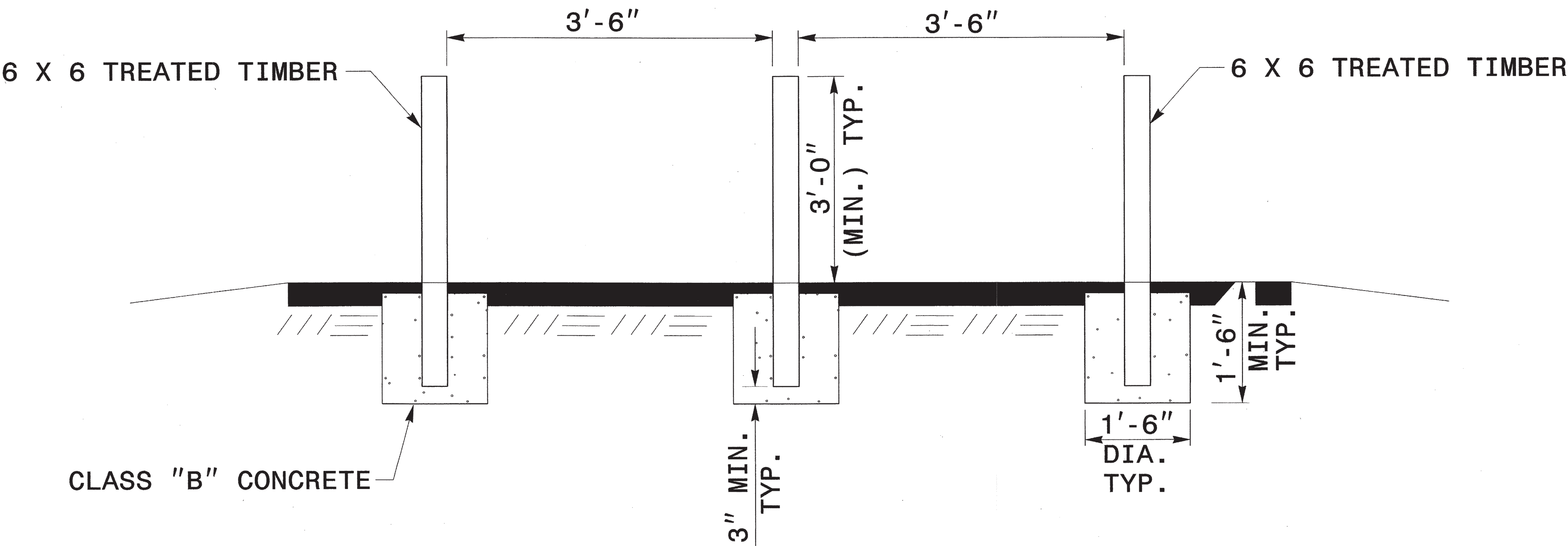
PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2C-9

NOTES:

PLACE BOLLARDS TO PROHIBIT ENTRY OF UNAUTHORIZED VEHICLES AS SHOWN ON ROADWAY PLANS.

PLACE BOLLARDS AS SHOWN IN PLANS OR AS DIRECTED BY THE ENGINEER.

PROVIDE TIMBER BOLLARDS THAT MEET SECTION 1082-3 OF STANDARD SPECIFICATIONS.



SECTION



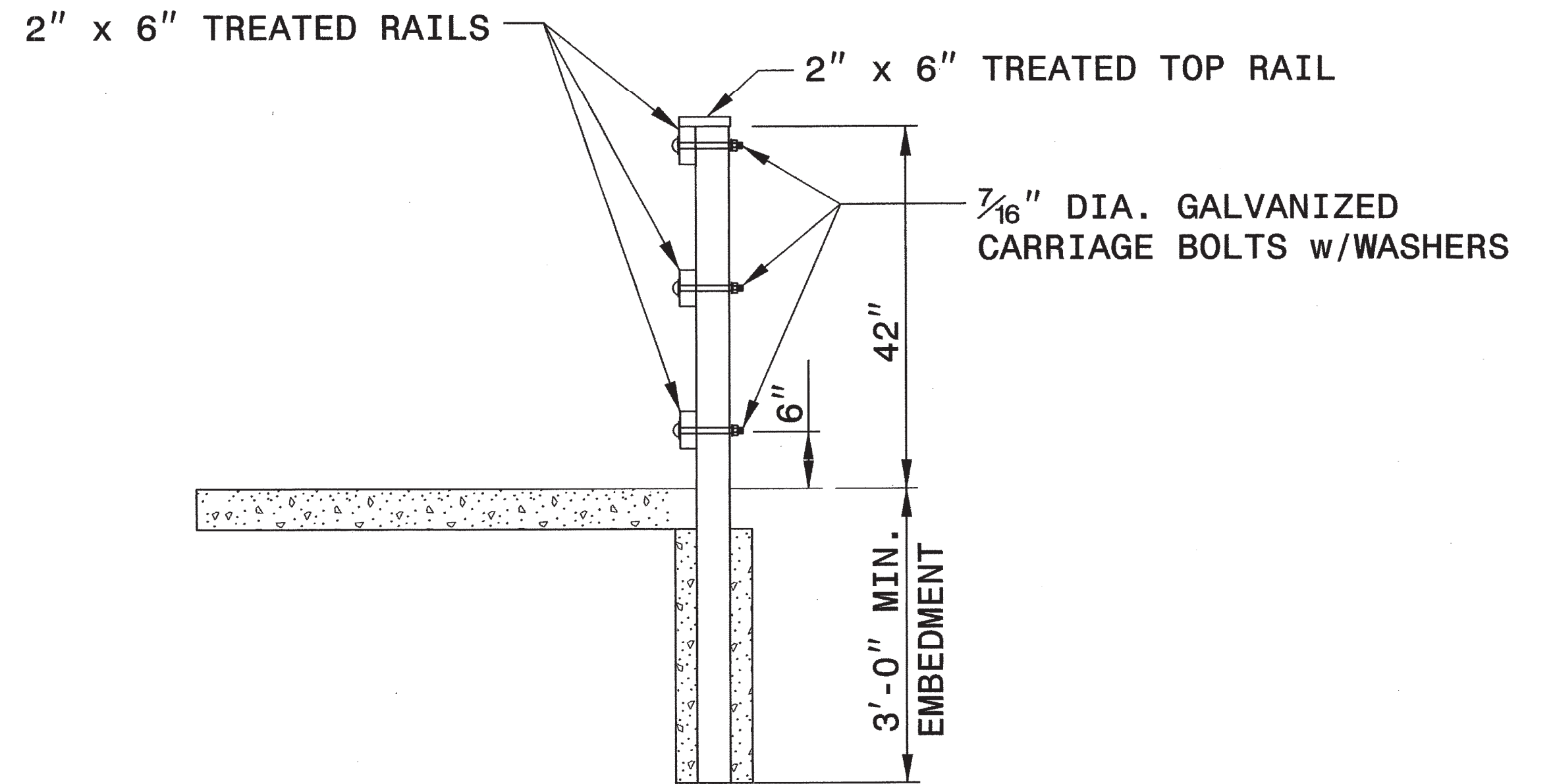
9/2/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

TIMBER BOLLARD

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: tsspell DATE: 08-17-10
CHECKED BY: _____ DATE: _____
FILE SPEC.: details/ihowerton/timber_bollard.dgn



SECTION VIEW

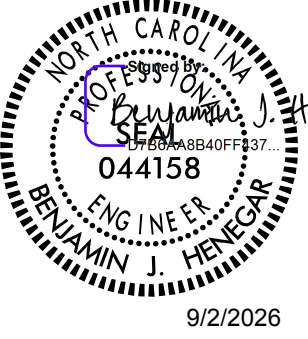
A circular professional engineer seal for the state of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. Inside the ring, the word "PROFESSIONAL" is written in a large, stylized font across the middle. Below it, the name "JIMMY L. TERRY" is written in a smaller font. At the bottom of the inner circle, the number "35018" is displayed. To the right of the name, there is a small rectangular box containing the text "DocuSign" and "SEAL". Below the name, the license number "0000068294D0..." is visible. The date "9/2/2026" is printed at the bottom right of the page.

ORIGINAL BY: C. O. CUEVAS DATE: 6-99
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: ds182:/usr/cesar/metric/woodhandrail.dgn

8/17/99

REVISIONS

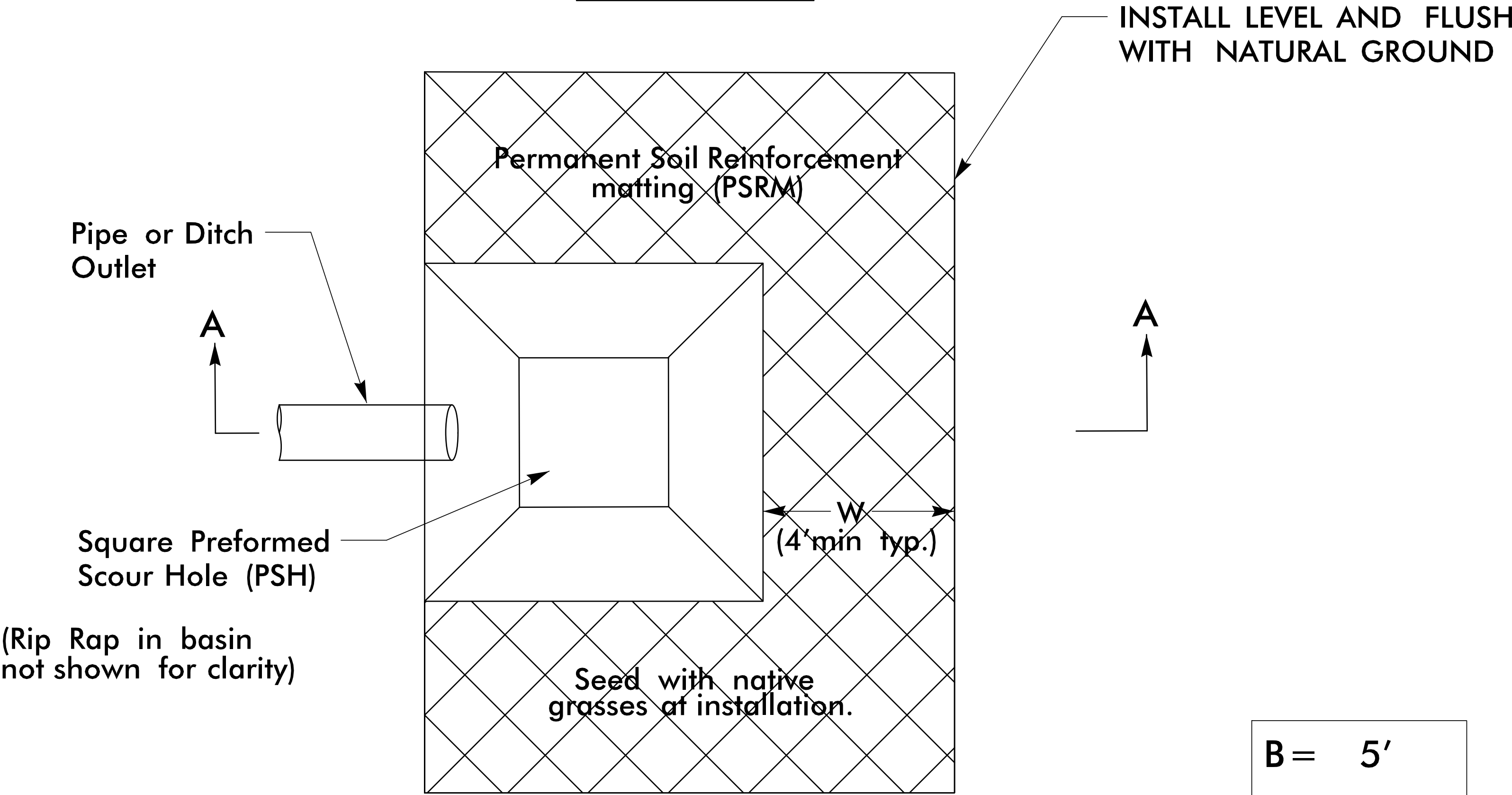
8/28/2025
X:\CADD\K-B-5857-Cramerton\Roadway\Proj\Details\U-6146_Detail Sht. 2D-1 (Preformed Scour Hole).dgn
User: jruett

PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2D-1
RW SHEET NO.	
HYDRAULICS ENGINEER	
	
9/2/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

PREFORMED SCOUR HOLE

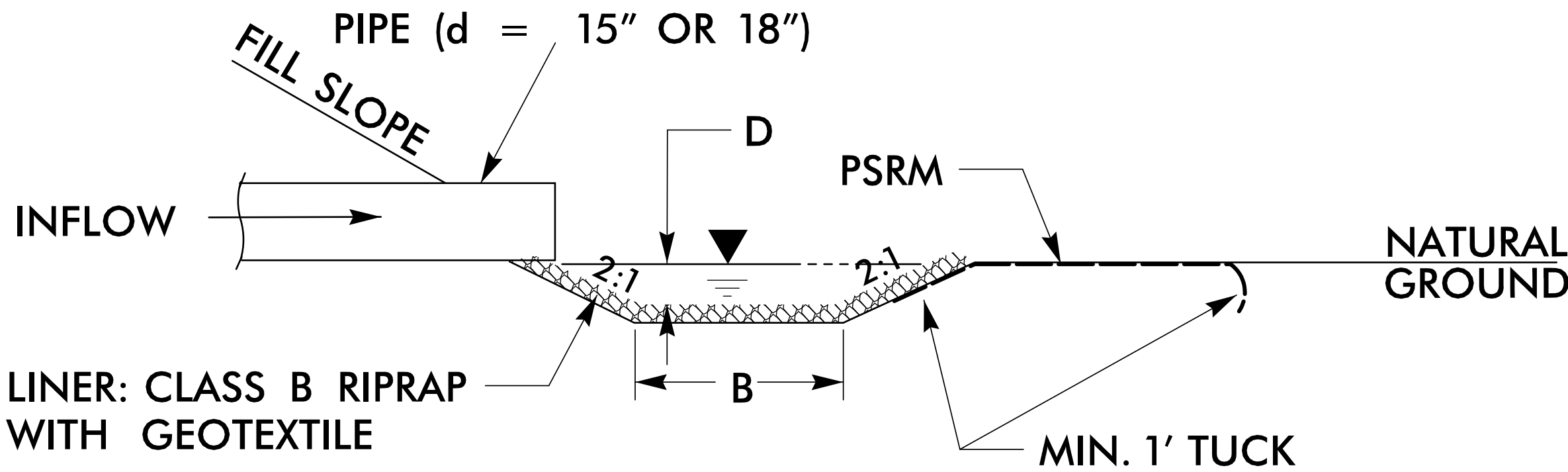
*NOT TO SCALE

PLAN VIEW

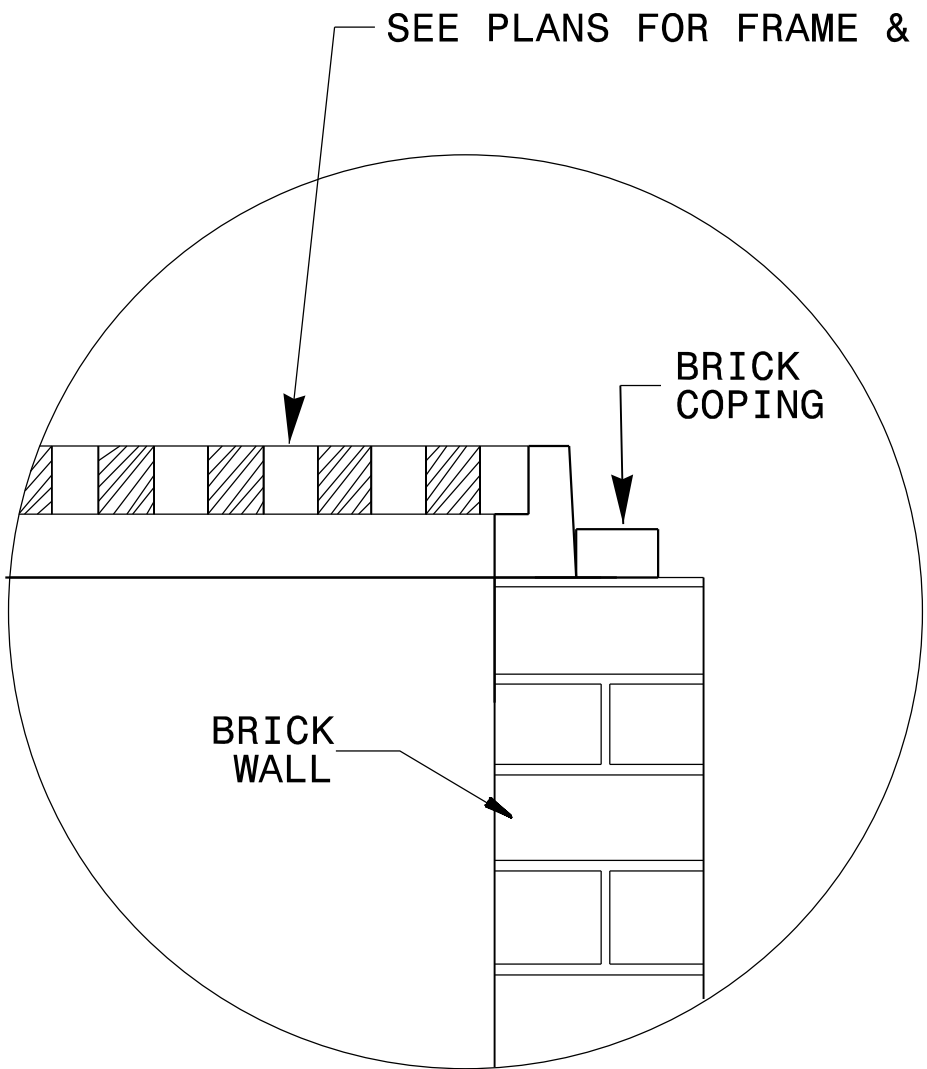


B = 5'
D = 2'
W = 4'

SECTION A-A

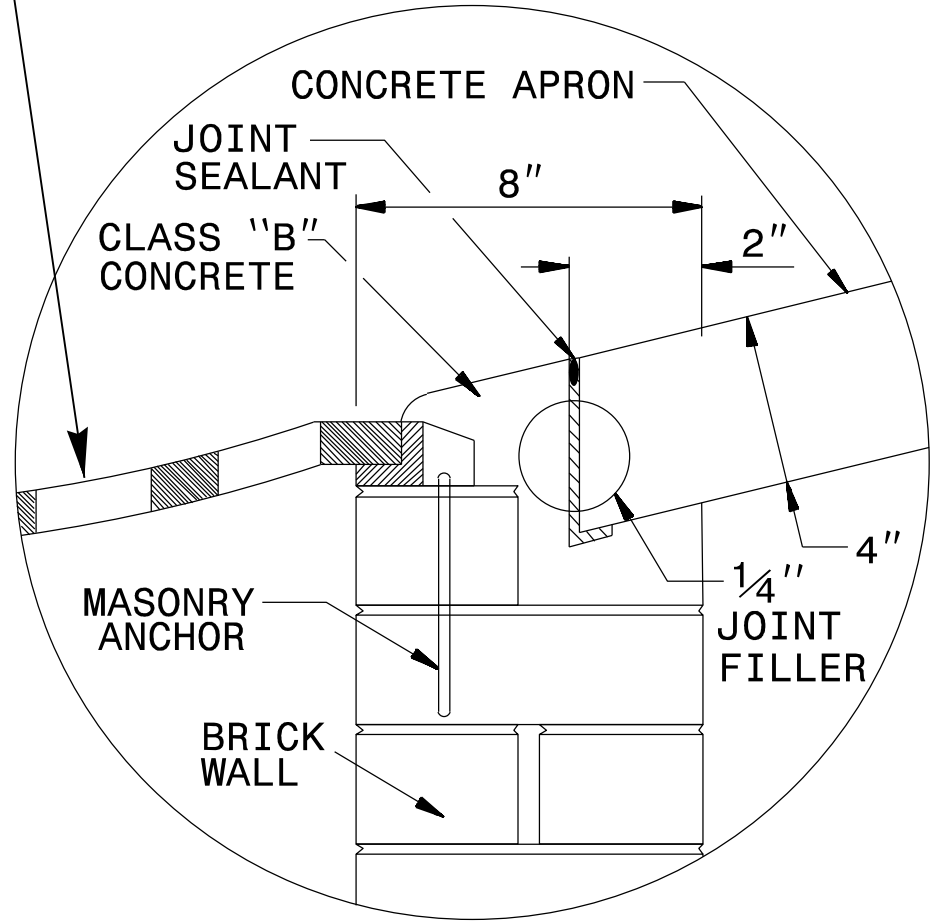


SEE PLAN VIEW FOR
PREFORMED SCOUR HOLE
LOCATIONS



GRATE PLACEMENT DETAIL

FOR DROP INLETS

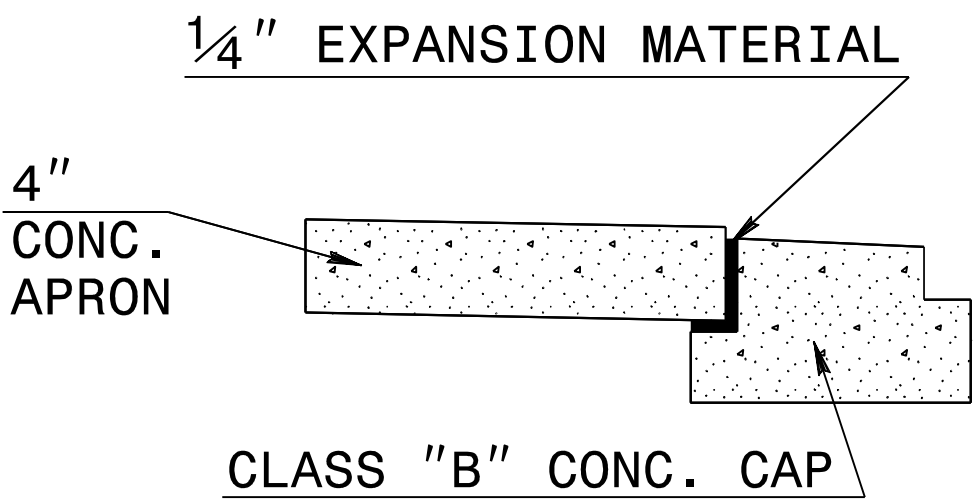


GRATE PLACEMENT DETAIL

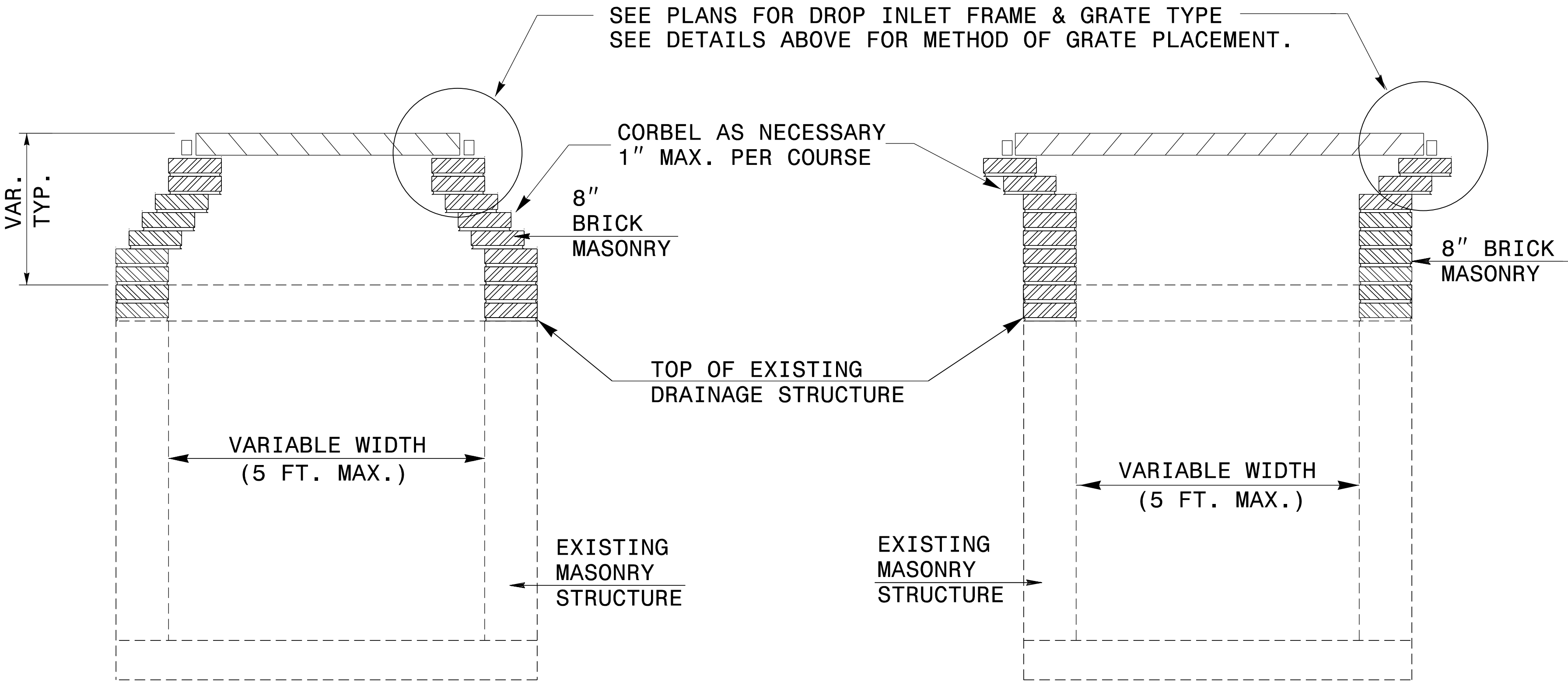
FOR GRATED DROP INLETS

GENERAL NOTES:

- CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.
- USE CLASS B CONCRETE.
- THE DIMENSIONS FOR THE EXISTING BOXES ARE APPROXIMATE AND MAY VARY SLIGHTLY.
- JUMBO CONCRETE BRICK WILL BE PERMITTED. 4" CONCRETE BRICK OR 8" SOLID CONCRETE BLOCK ARE REQUIRED FOR DRAINAGE STRUCTURE.
- INCLUDE 18" CONCRETE APRON IN UNIT PRICE BID PER EACH, CONVERT EXISTING CATCH BASIN TO DROP INLET.
- SPECIAL DESIGN IS REQUIRED FOR USE UNDER PAVEMENT.
- CONFIRM DIMENSIONS ON EACH INDIVIDUAL FRAME & GRATE PROPOSAL.
- SEE STD. DRAWING 840.25 FOR MASONRY ANCHORAGE.

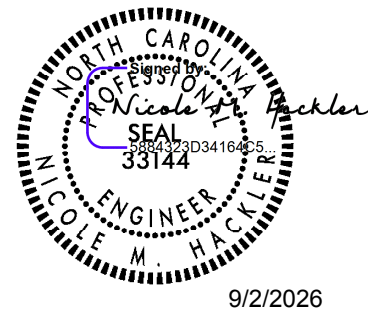


EXPANSION JOINT DETAIL



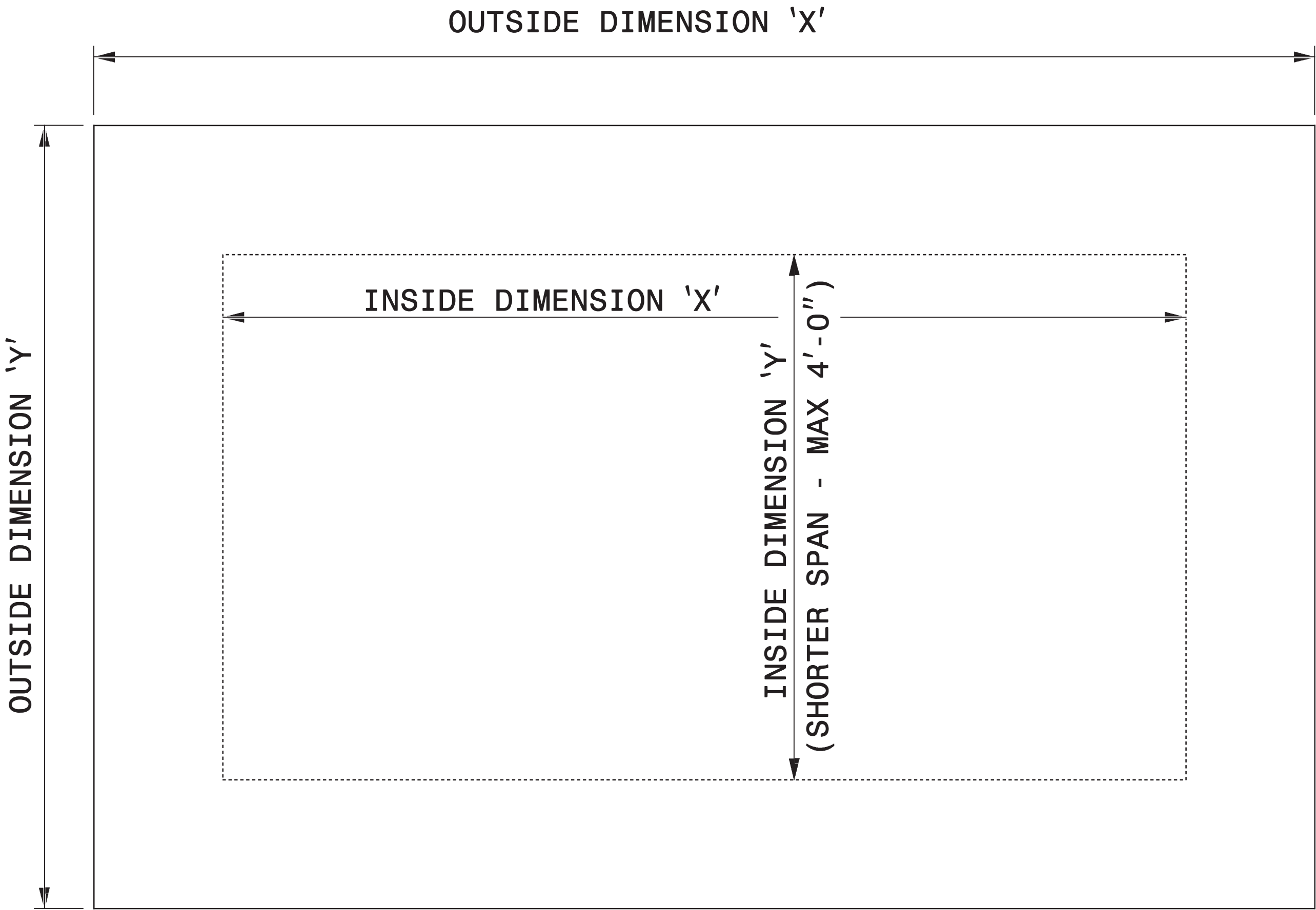
TYPICAL SECTION

TYPICAL SECTION



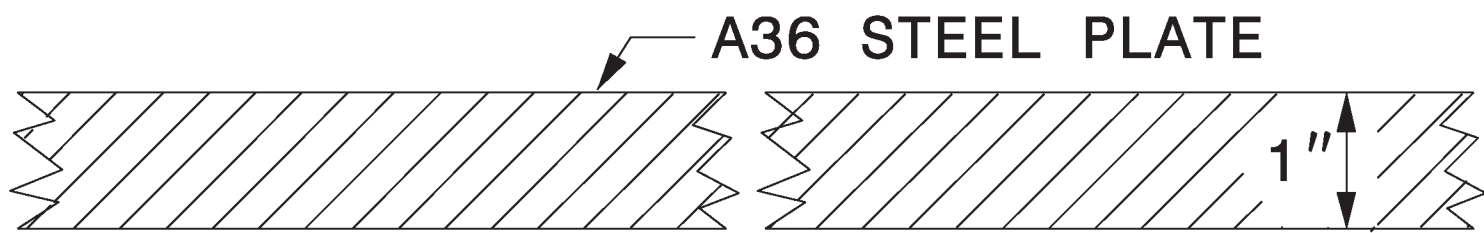
CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
DETAIL TO CONVERT EXISTING CATCH BASIN OR JUNCTION BOX TO DI OR 2-GI			
ORIGINAL BY:	T.S.S.	DATE:	NOV. 1997
MODIFIED BY:	T.S.S.	DATE:	FEB. 2000
CHECKED BY:		DATE:	
FILE SPEC.:	s:usr/details/stand/cbtod102.dgn		

PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2D-3



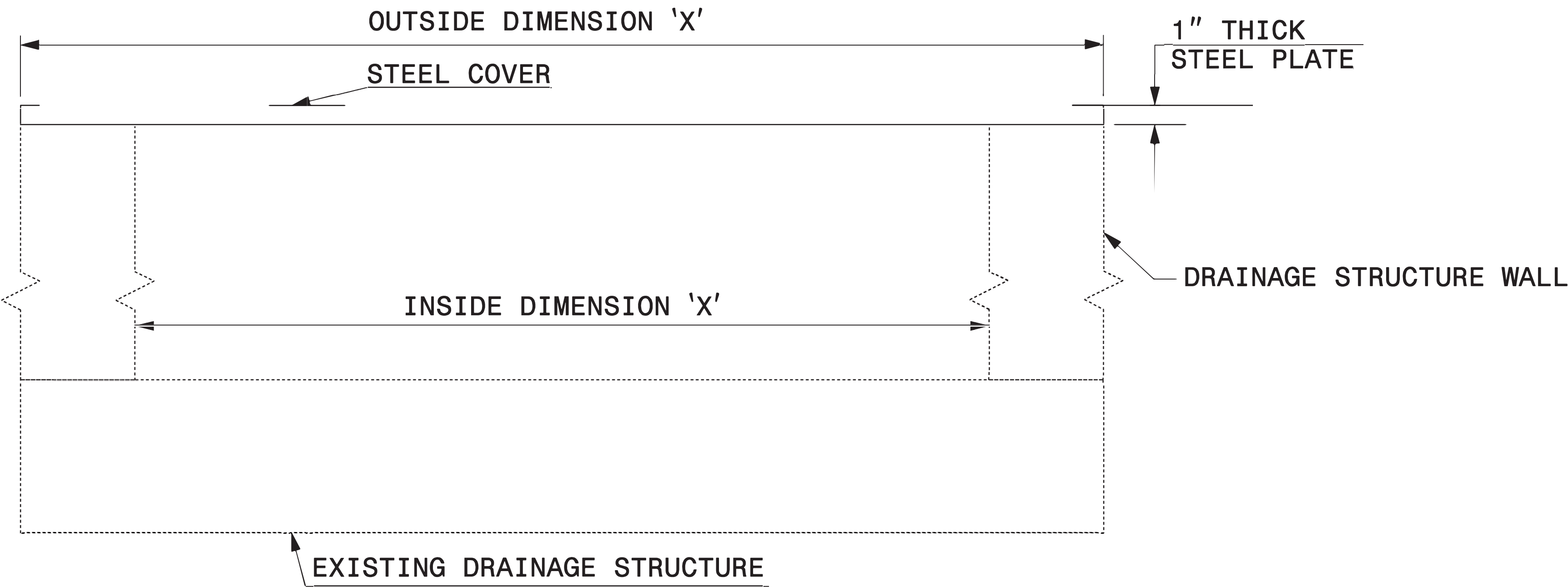
GENERAL NOTES:

- USE GRADE A36 STEEL
- STEEL COVERS ARE FOR TEMPORARY USE DURING PHASE CONSTRUCTION.
- FILL SHALL BE PLACED DIRECTLY OVER THE STEEL PLATES.
- SEE ROADWAY PLANS AND PROVISIONS FOR LOCATIONS
- QUANTITIES TO BE PAID FOR AT THE UNIT PRICE BID PER EACH.

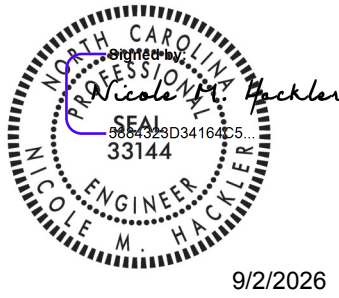


SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



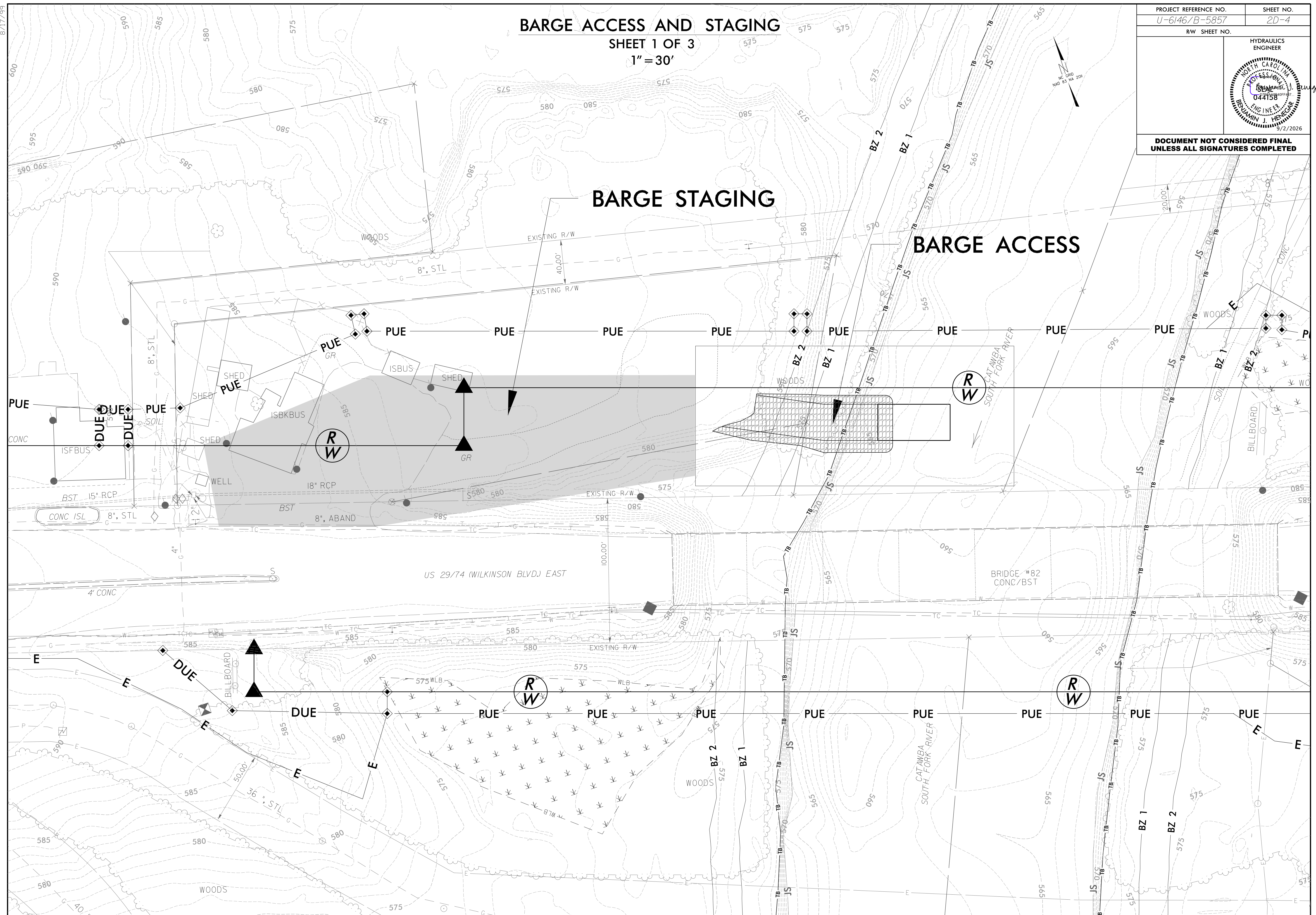
9/2/2026

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

DETAIL OF TEMPORARY
1" STEEL COVER
OVER DRAINAGE STRUCTURE

ORIGINAL BY: E.E. WARD DATE: 2-2-98
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: eric:/usr/details/metric/stand/stlcvr2.dgn

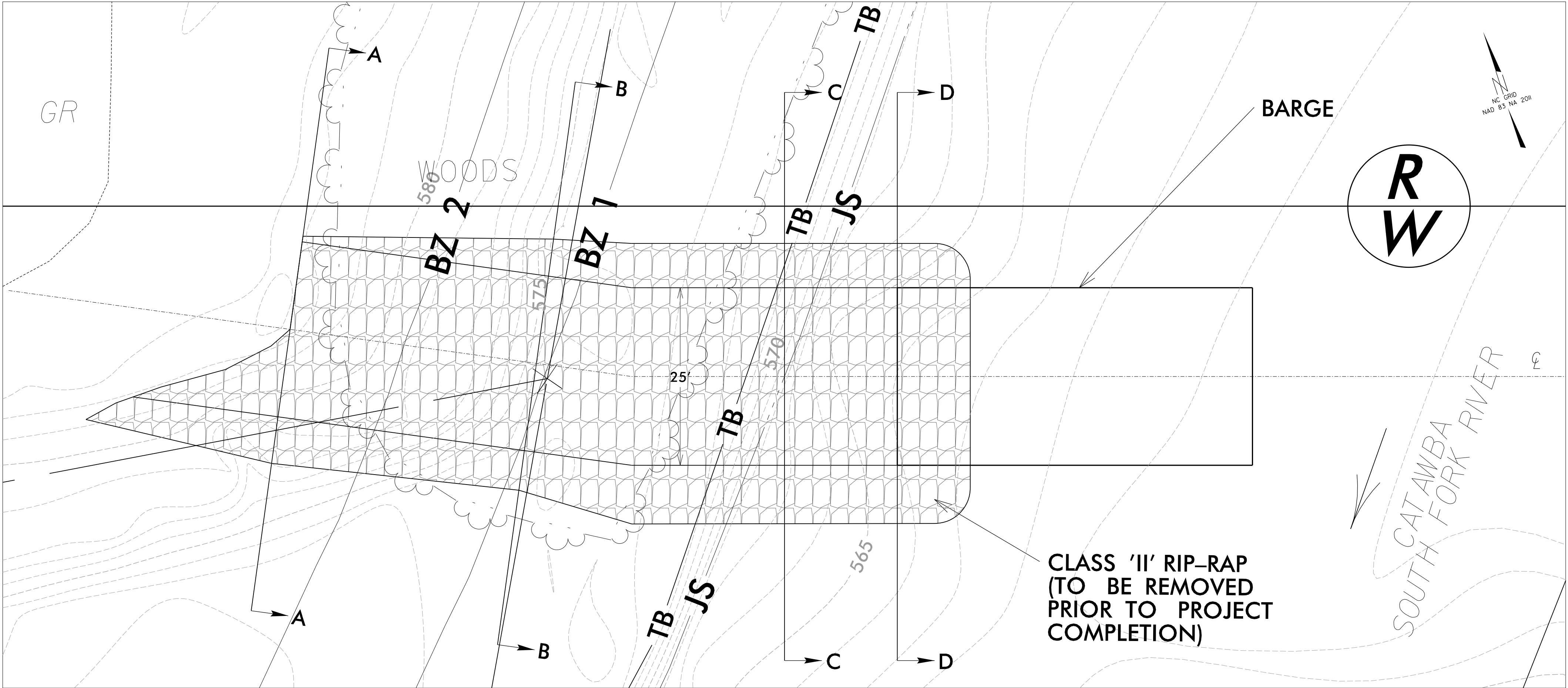
$$1'' = 30'$$


8/17/99

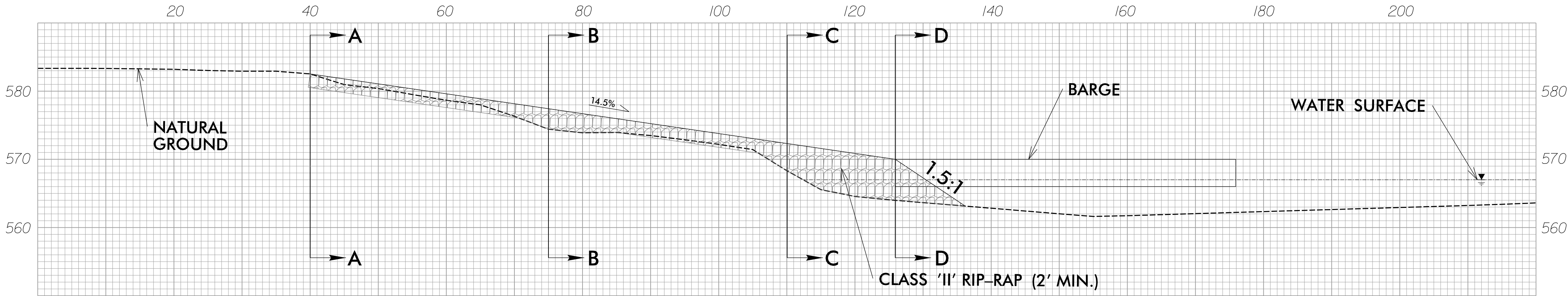
BARGE ACCESS AND STAGING

SHEET 2 OF 3

1"=10'



PLAN VIEW



PROFILE VIEW

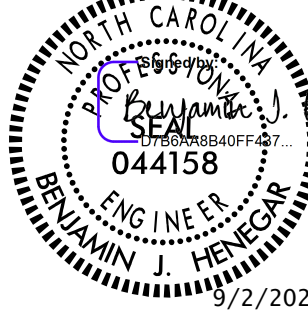
PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2D-5
RW SHEET NO.	
HYDRAULICS ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

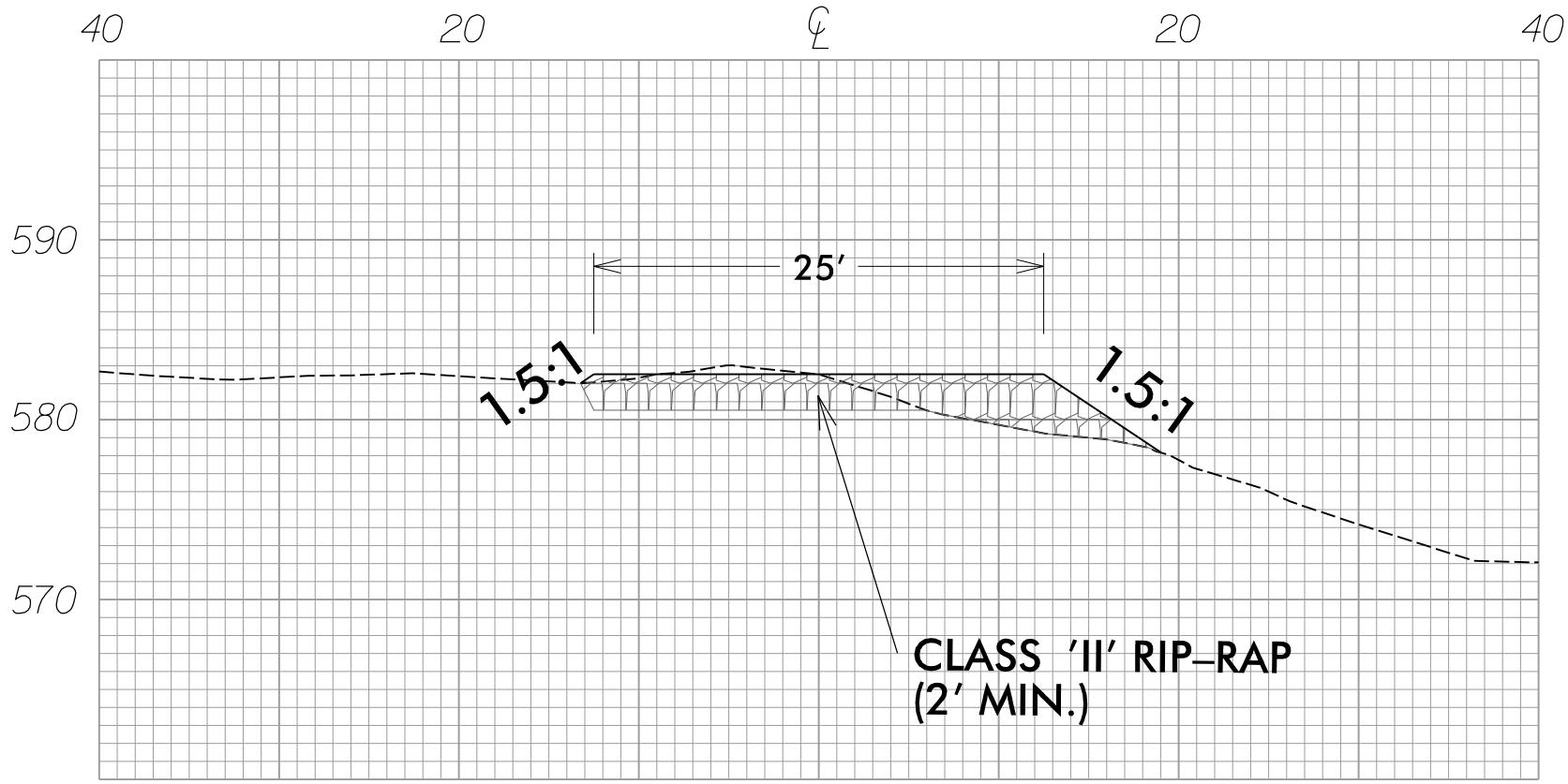
8/17/99

BARGE ACCESS AND STAGING

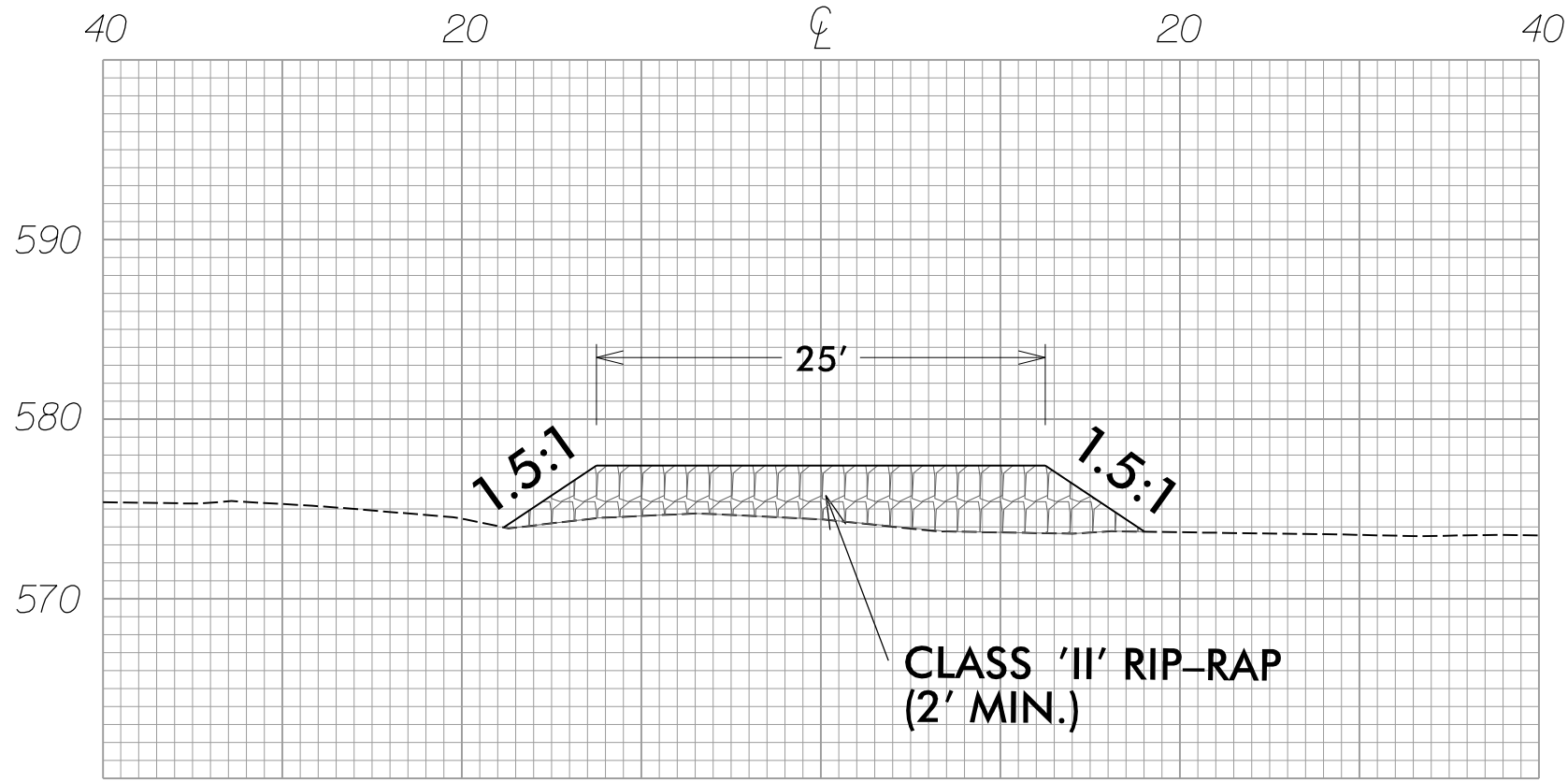
SHEET 3 OF 3

1" = 10'

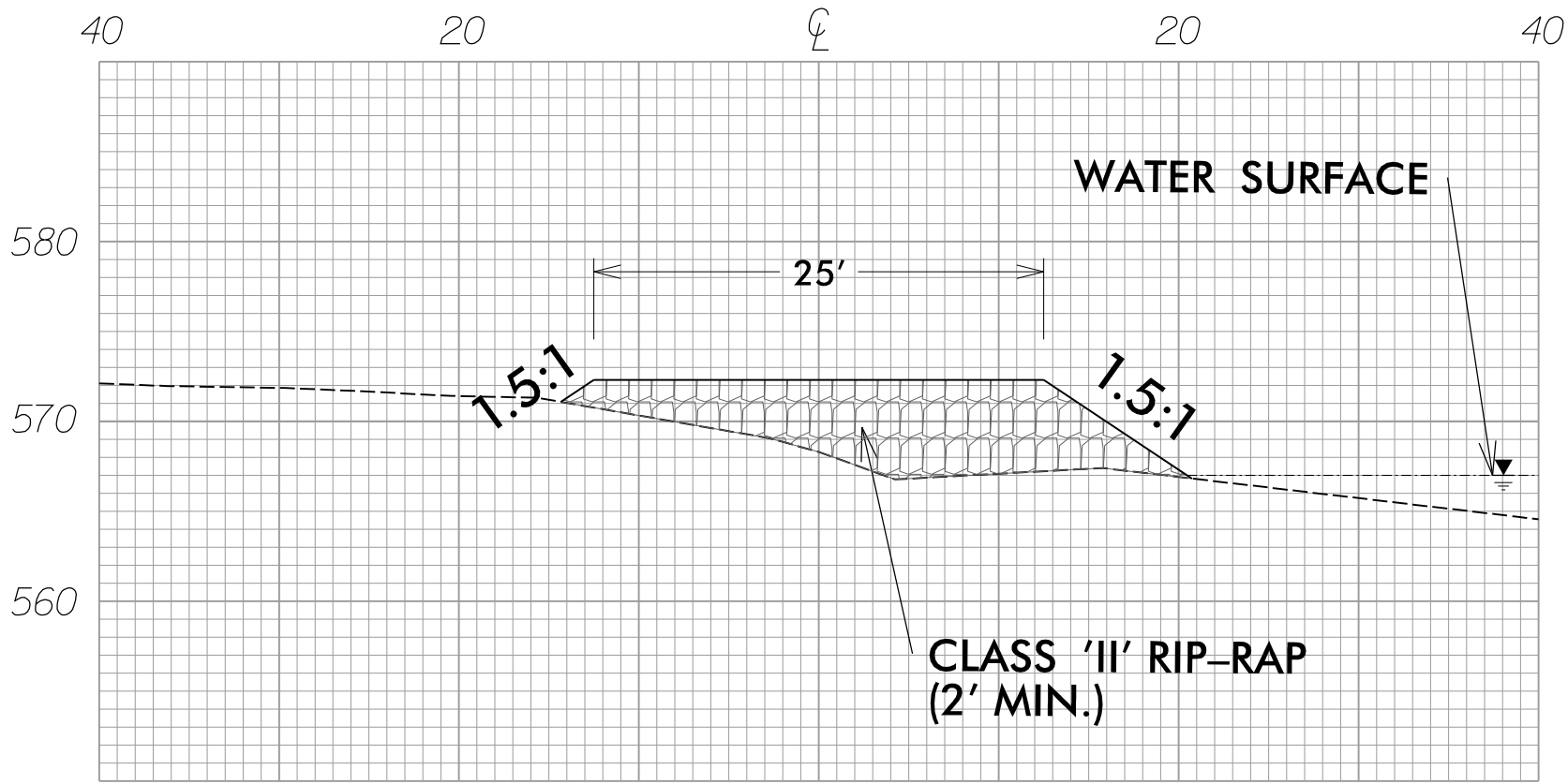
PROJECT REFERENCE NO.	SHEET NO.
U-6146/B-5857	2D-6
RW SHEET NO.	
HYDRAULICS ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



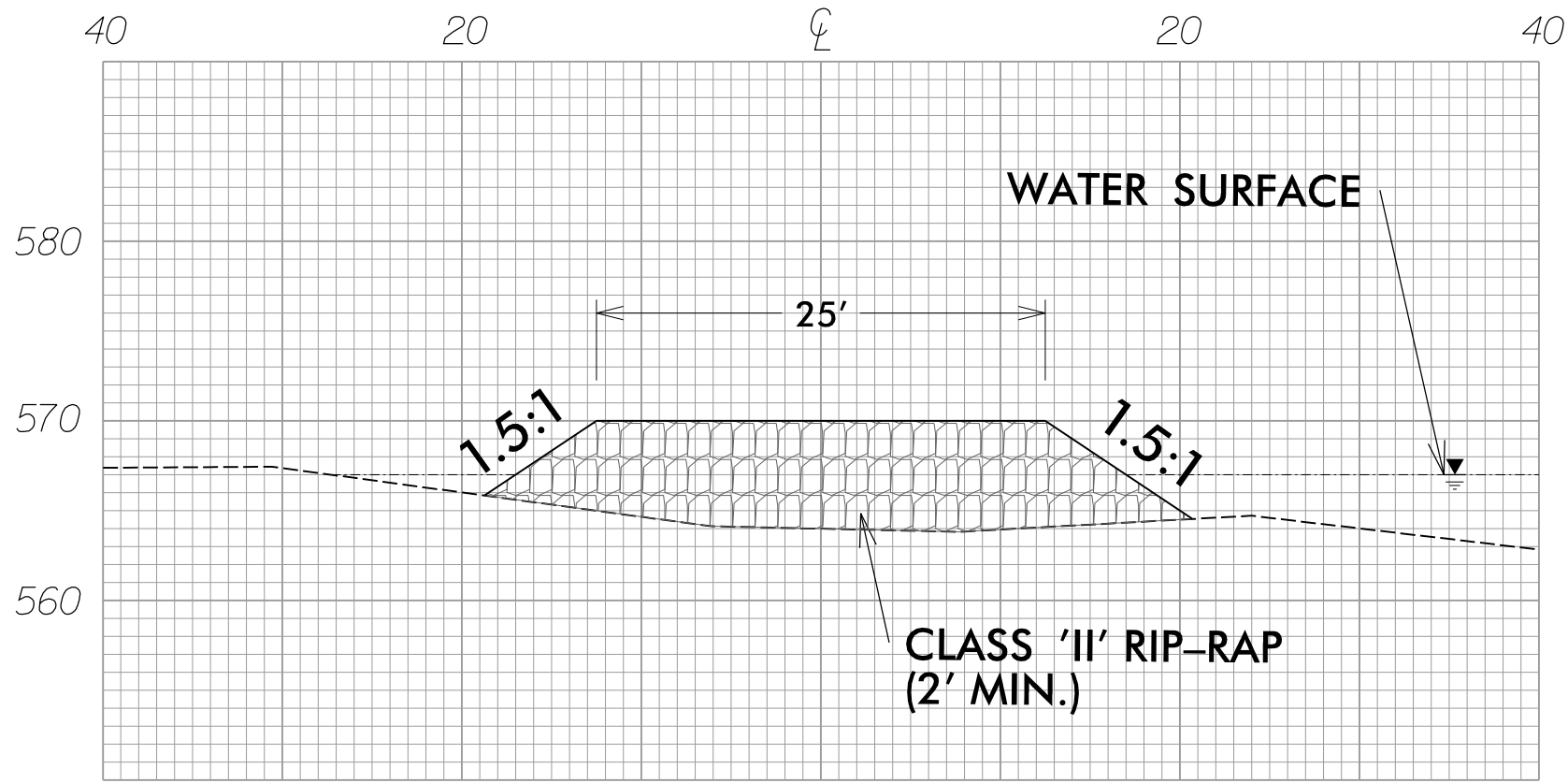
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

PROJECT REFERENCE NO.
U-6146/B-5857

SHEET NO.
2G-1

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 041986

D. MATTHEW BREWER

DocuSigned by:
D. Matthew Brewer

01/30/2020

SIGNATURE

DATE

ENGINEER

SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROCK PLATING DETAIL NO. 1 – TYPICAL SECTION

ROCK PLATING DETAIL NO. 2 – TYPICAL SECTION

GEOTEXTILE OVERLAP DETAIL

ROCK PLATING

FOR ROCK PLATING, SEE SECTION 275 OF THE STANDARD SPECIFICATIONS
USE ROCK PLATING AT THE FOLLOWING LOCATIONS:

LINE	BEGINNING SLOPE	APPROX. STATION	ENDING SLOPE	APPROX. STATION	LOCATION LT/RT	ROCK PLATING DETAIL NO. 1/2	RIPRAP CLASS* 1/2B	SY
-L-	1.5:1	28+80	1.5:1	30+50	RT	2	*	600

*USE CLASS 1, 2 OR B RIPRAP UNLESS REQUIRED OTHERWISE IN THE ROADWAY SUMMARY SHEETS.

PREPARED BY: DMB	DATE: 1/10/2020
REVIEWED BY: REK	DATE: 1/10/2020

Prepared in the Office of:

CGE

CAROLINAS GEOTECHNICAL GROUP

2400 CROWNPOINT EXECUTIVE DRIVE
SUITE 800
CHARLOTTE, NC 28227
(980) 339-8684

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

ROCK PLATING
NOTES & DETAILS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PROJECT REFERENCE NO.
U-6146/B-5857

SHEET NO.
2G-2

GEOTECHNICAL ENGINEER



DocuSigned by:
D. Matthew Brumer
388129C0-56A1-46F0-BE0E-444444444444

ENGINEER

10/26/23

SIGNATURE

DATE

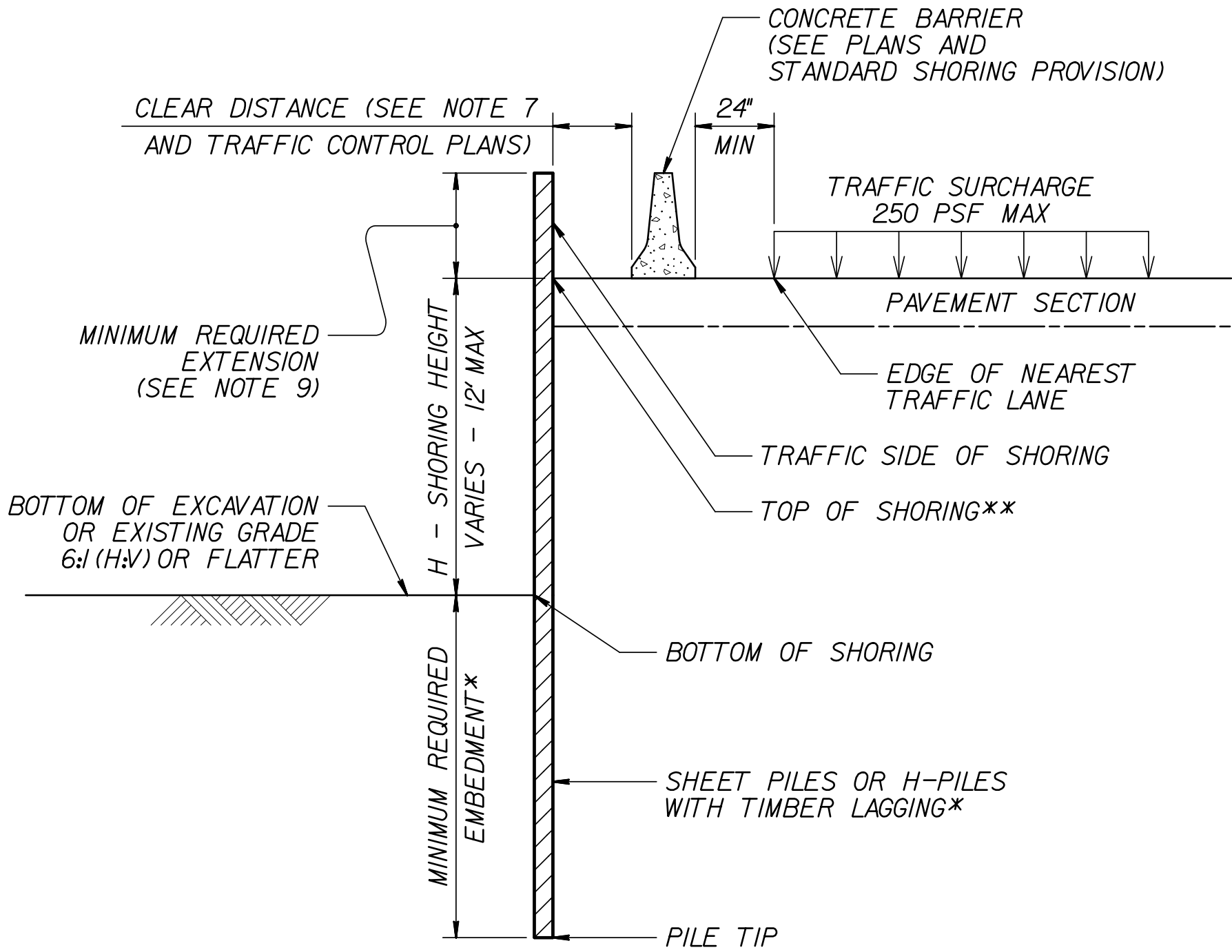
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NOTES:

- AT THE CONTRACTOR'S OPTION,USE STANDARD TEMPORARY SHORING AS NOTED IN THE PLANS.
- FOR STANDARD TEMPORARY SHORING,SEE STANDARD SHORING PROVISION.
- STANDARD TEMPORARY SHORING IS BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
UNIT WEIGHT, γ = 120 PCF
FRICTION ANGLE, ϕ = 30 DEGREES
COHESION, c = 0 PSF
- DO NOT USE STANDARD TEMPORARY SHORING IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
- DO NOT USE STANDARD TEMPORARY SHORING WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS WITHIN THE EMBEDMENT DEPTH.
- USE GROUNDWATER ELEVATION NOTED IN THE PLANS,IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS,USE "GROUNDWATER ELEVATION BETWEEN BOTTOM OF SHORING AND PILE TIP" FOR GROUNDWATER CONDITION. DO NOT USE STANDARD TEMPORARY SHORING IF GROUNDWATER IS ABOVE BOTTOM OF SHORING.
- AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN THE MINIMUM REQUIRED FOR CONCRETE BARRIER,SET BARRIER NEXT TO AND UP AGAINST TRAFFIC SIDE OF PILES AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
- AT THE CONTRACTOR'S OPTION OR IF AVAILABLE CLEAR DISTANCE IS LESS THAN 4' FOR TEMPORARY GUARDRAIL,ATTACH GUARDRAIL TO TRAFFIC SIDE OF PILES AS SHOWN IN THE PLANS AND USE "SURCHARGE CASE WITH TRAFFIC IMPACT".
- MINIMUM REQUIRED EXTENSION IS 6" FOR "SLOPE OR SURCHARGE CASE WITH NO TRAFFIC IMPACT" AND 32" FOR "SURCHARGE CASE WITH TRAFFIC IMPACT".
- MINIMUM REQUIRED EMBEDMENT FOR H-PILES WITH TIMBER LAGGING IS BASED ON DRIVEN H-PILES AT MAXIMUM 6' SPACING. AT THE CONTRACTOR'S OPTION,EMBEDMENT DEPTHS MAY BE REDUCED BY 25% FOR DRILLED-IN H-PILES.
- SUBMIT A "STANDARD TEMPORARY SHORING SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY SHORING CONSTRUCTION. UP TO 3 SHORING LOCATIONS MAY BE INCLUDED ON EACH FORM. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM:
connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
- CONTACT THE ENGINEER IF PILES DO NOT ATTAIN THE MINIMUM REQUIRED EMBEDMENT.

MINIMUM REQUIRED EMBEDMENT AND SECTION MODULUS

*DO NOT USE H-PILES WITH TIMBER LAGGING FOR GROUNDWATER CONDITION, SHORING HEIGHT AND H-PILE SIZE SHOWN IF MINIMUM REQUIRED EMBEDMENT IS "—".

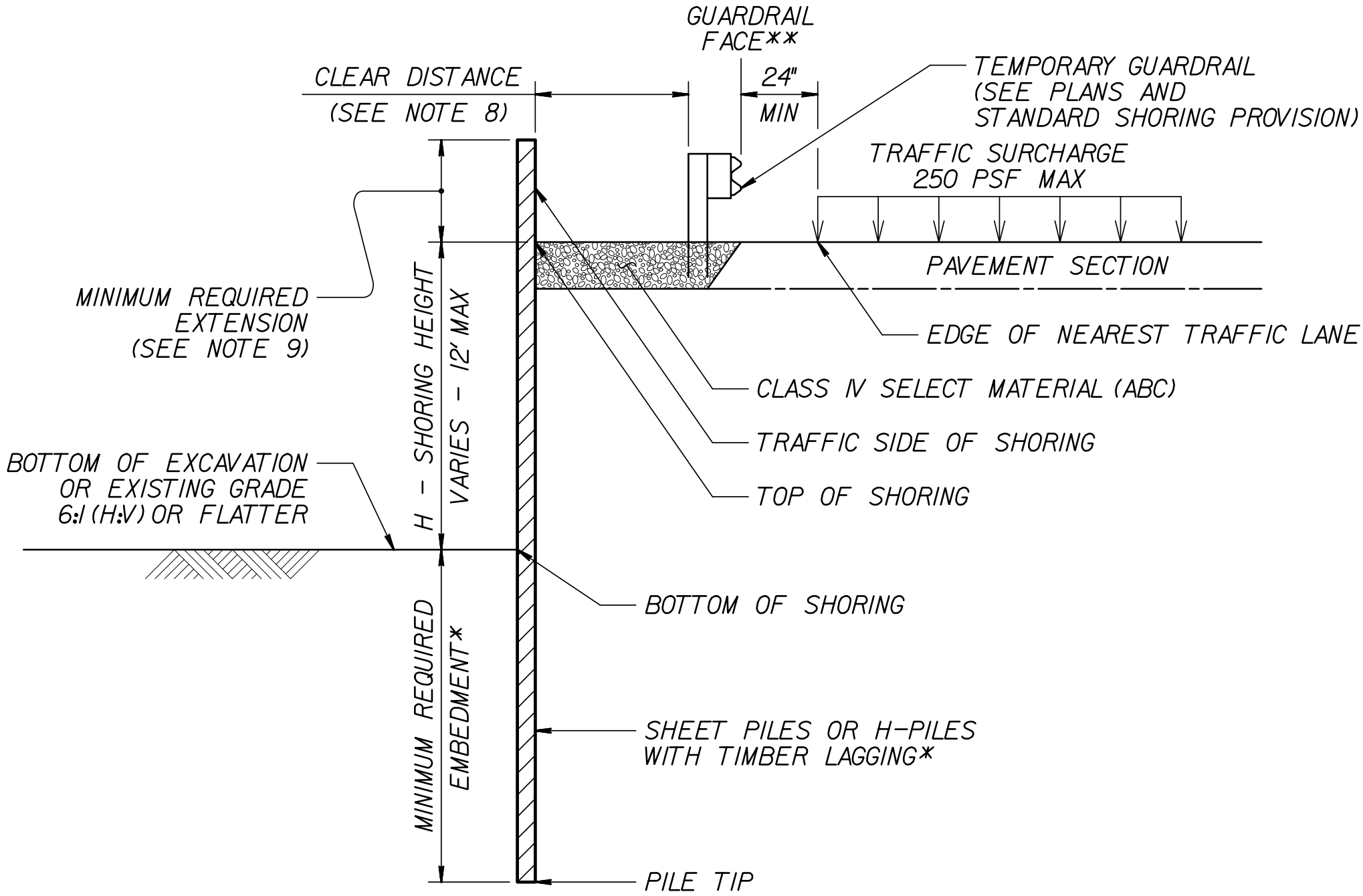


CONCRETE BARRIER

**TOP OF SHORING =
EDGE OF PAVEMENT

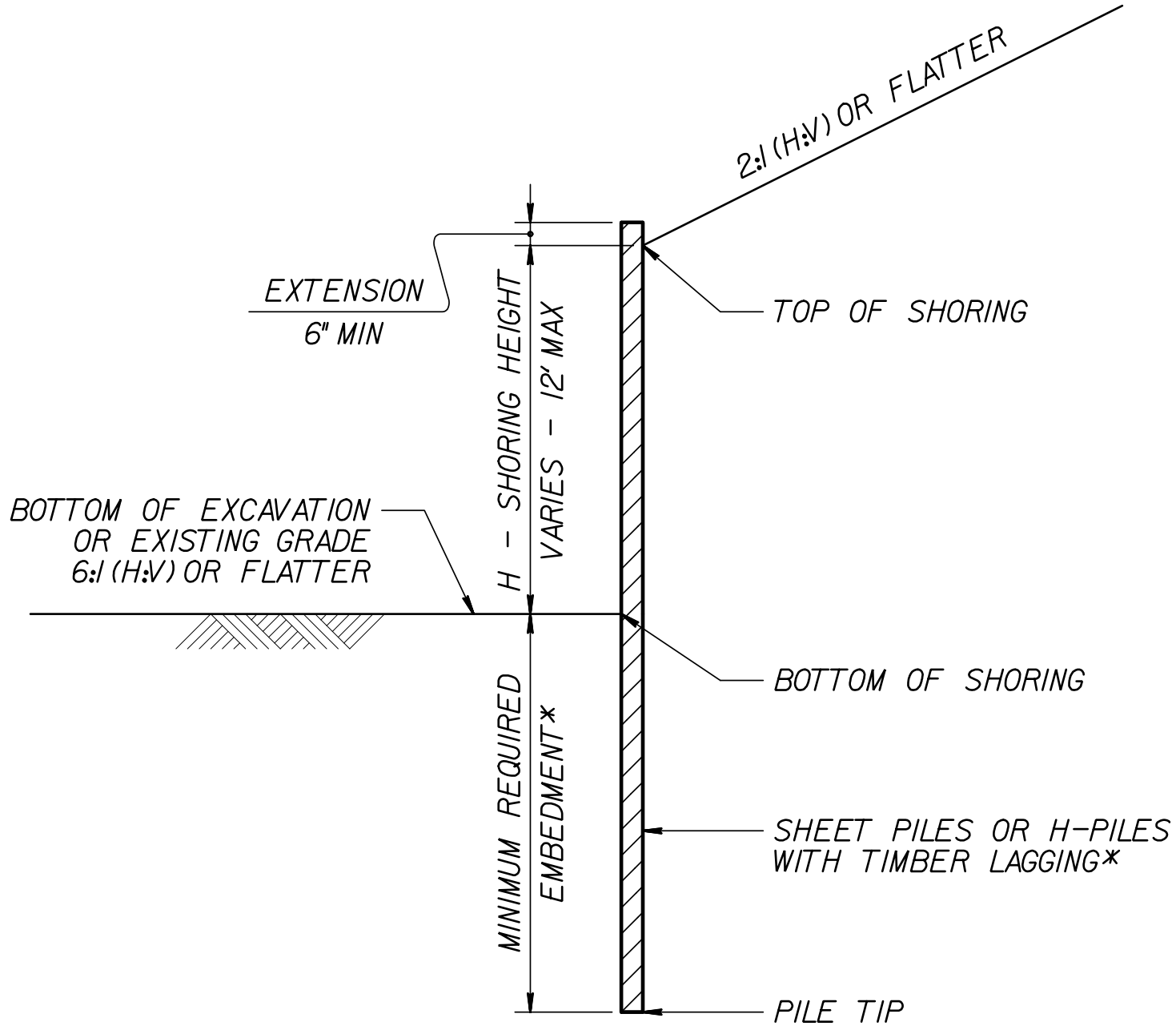
STANDARD TEMPORARY SHORING

(SURCHARGE CASE)
*SEE TABLE ABOVE.



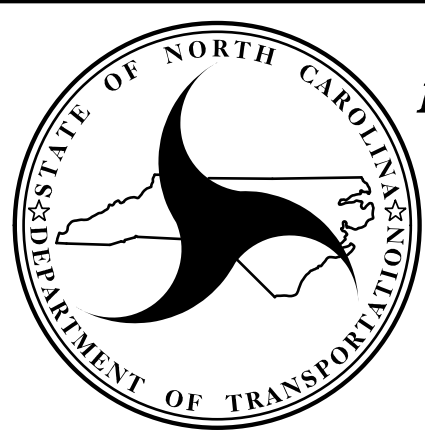
TEMPORARY GUARDRAIL

**GUARDRAIL FACE =
EDGE OF PAVEMENT



STANDARD TEMPORARY SHORING

(SLOPE CASE)
*SEE TABLE ABOVE.



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

STANDARD DETAIL NO. 1801.01

STANDARD
TEMPORARY SHORING

COMPUTED BY: SGM	DATE: 8/4/2025
CHECKED BY: JLT	DATE: 8/5/2025

PROJECT NO.	SHEET NO.
U-6146/B-5857	3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

IN CUBIC YARDS

Station	Station	Uncl. Excav.	Undercut	Embank. +%	Borrow	Waste
-L- 10+00.00	-L- 30+67.17	17,419		9,325		8,094
-Y- 9+97.00	-Y- 14+29.80	180		183	3	
-Y- 15+21.47	-Y- 18+98.76	331		52		279
-Y2- 10+56.76	-Y2- 11+55.00	10		99	89	
-GRWY- 10+02.75	-GRWY- 13+15.00	531		22		509
SUBTOTALS 1:		18,471		9,681	92	8,882
-L- 35+18.83	-L- 54+00.00	5,495		15,400	9,905	
-Y1- 10+00.00	-Y1- 15+13.49	1,445		1,724	279	
-Y1- 16+36.19	-Y1- 21+00.00	896		35		861
SUBTOTALS 2:		7,836		17,159	10,184	861
-L- 54+00.00	-L- 78+40.00	7,403		9,145	1,742	
SUBTOTALS 3:		7,403		9,145	1,742	
TOTAL		33,710		35,985	12,018	9,743
MATERIAL FOR SHOULDER CONSTRUCTION				86	86	
LOSS DUE TO CLEARING & GRUBBING		-500			500	
ADDITIONAL UNDERCUT			1,800			1,800
WASTE IN LIEU OF BORROW					-9743	-9,743
PROJECT TOTALS:		33,210	1,800	36,071	2,861	1,800
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT					143	
GRAND TOTALS:		33,210	1,800	36,071	3,004	1,800
SAY:		33,300	1,800		3,100	

EST. DDE = 200 CUBIC YARDS

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY TGS ENGINEERS. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, clearing and grubbing, breaking of existing pavement, and removal of existing pavement will be paid for at the lump sum price for "Grading".

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL	ASPHALT BREAKUP	CONCRETE REMOVAL	CONCRETE BREAKUP
-L-	15+93	24+77	RT	1,236.43			
-L-	18+50	19+85	LT	28.91			
-L-	23+00	25+99	LT	25.88			
-L-	25+08	28+50	RT	148.45			
-L-	45+13	53+55	RT	417.00			
-L-	46+00	49+02	LT	796.09			
-Y-	10+87	13+38	LT	125.54			
-Y-	13+73	14+16	RT	8.84			
-Y1-	12+55	15+31	CL	1,087.60			
-L-	28+25	30+43	LT	246.21			
-L-	35+43	37+37	LT	630.44			
-L-	23+00	24+62	RT		156.89		
-L-	25+15	28+50	RT		388.53		
-L-	24+50	28+50	LT		1,269.90		
-L-	28+50	30+68	CL		1,395.02		
-L-	35+18	37+60	CL		1,553.00		
-L-	50+00	53+00	RT		162.22		
			TOTAL:	4,751.39	4,925.56		
			SAY:	4,760	4,930		

SHOULDER BERM GUTTER SUMMARY

IN LINEAR FEET

Line	Station	Station	Length
-L-, LT	30+30	30+43	13
		TOTAL:	13
		SAY:	15

VINYL COATED CHAIN LINK FENCE, 48" FABRIC

IN LINEAR FEET AND EA

Sta to Sta	Loc	Fabric LF	Line Posts EA	Terminal Post EA
47+90 to 51+60	RT	370	38.5	2
63+40 to 66+18	RT	278	29	2
TOTAL		648	67.5	4
SAY:		650	68	4

"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 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

[illegible]

SHEET TOTALS

SHEET TOTALS

SHEET TOTALS

SHEET TOTALS

SHEET TOTALS

SHEET TOTALS

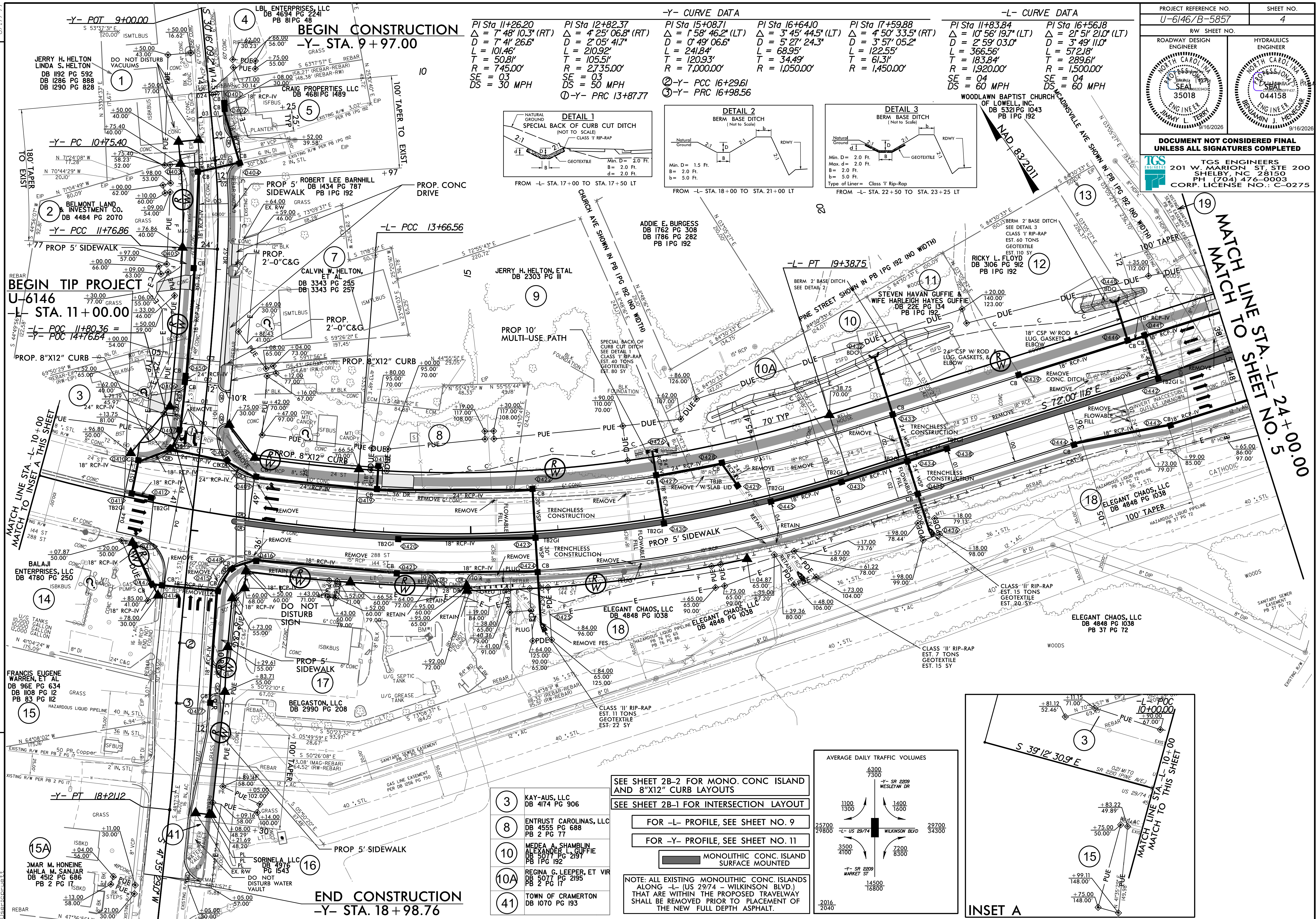
SHEET TOTALS

COMPUTED BY: D. Matthew Brewer, P.E. DATE: 10/24/2023 CHECKED BY: Robert E. Kral, P.E. DATE: 10/24/2023		(2-3-23)				PROJECT NO. U-6146/B-5857		SHEET NO. 3G-1																																																																																																																																																															
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS																																																																																																																																																																							
SUMMARY OF SUBSURFACE DRAINAGE						SUMMARY OF GEOTEXTILE FOR SUBGRADE STABILIZATION				SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION																																																																																																																																																													
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8/17/99

9/16/2026 CramertonRoadway\Pro\U-6146-Rdy.psh.04.dgn

REVISIONS



PROJECT REFERENCE NO. U-6146/B-5857		SHEET NO. 4	
ROADWAY DESIGN ENGINEER JIMMY L. TERRY 35018		HYDRAULICS ENGINEER BENJAMIN J. HENNING 044158	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

8/17/99

8/22/2026 C:\Users\Roadway\Projects\U-614\Roadway\EB-5535.dgn

REVISIONS

MATCH LINE STA. -L- 24+00.00
MATCH TO SHEET NO. 4

MATCH LINE STA. -L- 38+00.00
MATCH TO SHEET NO. 6

-GRWY- CURVE DATA
PI Sta 10+55.37 PI Sta 12+48.92
 $\Delta = 60^\circ 21' 39.7''$ (RT) $\Delta = 30^\circ 33' 56.8''$ (RT)
 $D = 60^\circ 10' 26.3''$ $D = 22^\circ 16' 13.7''$
 $L = 100.31'$ $L = 137.25'$
 $T = 55.37'$ $T = 70.30'$
 $R = 95.22'$ $R = 257.27'$
①-GRWY- PC 10+00.00
②-GRWY- PT 11+00.31
③-GRWY- PC 11+78.62
④-GRWY- PT 13+15.87

WOOD RUB RAIL
-L- STA 35+450± TO 35+80±
SEE DETAIL SHT 2G-3

END CONSTRUCTION
-GRWY- STA. 13+15.00

-L- STA. 35+18.83
END BRIDGE
(B-5857)

WOOD RUB RAIL
-L- STA 30+10± TO 30+43±
SEE DETAIL SHT 2C-3

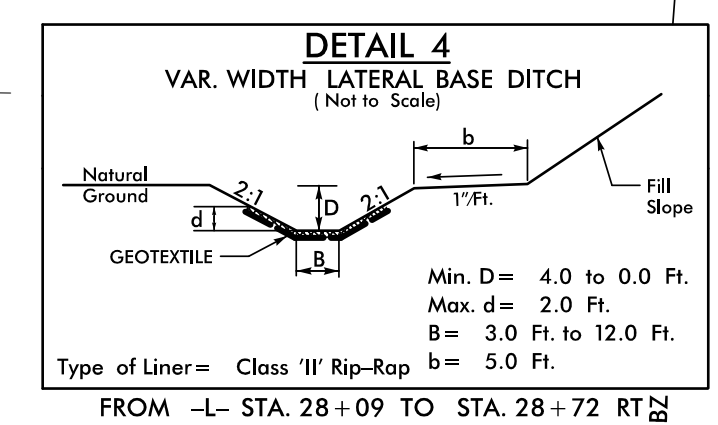
-L- POT 34+59.81 =
-GRWY- POT 11+40.32

-L- STA. 30+67.17
BEGIN BRIDGE
(B-5857)

BEGIN CONSTRUCTION
-GRWY- STA. 10+02.75
= TIP PROJECT EB-5535
STA. 45+22±

END CONSTRUCTION
-Y2- STA. 11+55.00

ROCK PLATING
-L- STA 28+80 TO 30+50, RT
SEE DETAIL SHT 2G-1
EST. 600 SY



FOR STRUCTURE PLANS,
SEE SHEET S-1 THRU S-99

NOTE: ALL EXISTING MONOLITHIC CONC. ISLANDS
ALONG -L- (US 29/74 - WILKINSON BLVD.)
THAT ARE WITHIN THE PROPOSED TRAVELWAY
SHALL BE REMOVED PRIOR TO PLACEMENT OF
THE NEW FULL DEPTH ASPHALT.

PROJECT REFERENCE NO. U-6146/B-5857		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

PROP. RETAINING WALL #2
W/HANDRAIL (BLACK)
-L- STA. 37+32± TO
-L- STA. 37+75±, LT

100' TRANSITION
OF MULTI-USE PATH
CROSS-SLOPE FROM
2% AWAY FROM
CURB TO 2%
TOWARDS CURB

PROP. ASPHALT
DRIVE

SEE SHEET 2B-2 FOR MONO.
CONC ISLAND LAYOUT

SEE SHEET 2B-1 FOR INTERSECTION LAYOUT

FOR -L- PROFILE, SEE SHEET NO. 9

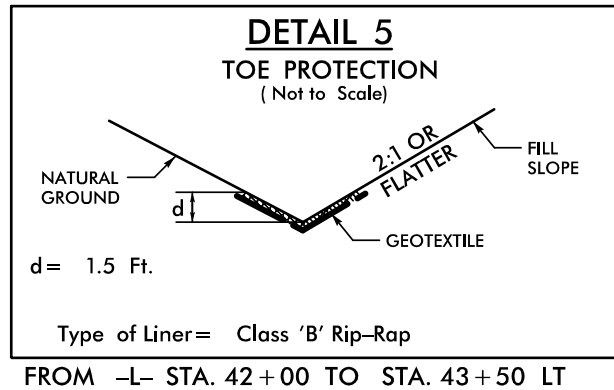
FOR -Y2- PROFILE, SEE SHEET NO. 12

FOR -GRWY- PROFILE, SEE SHEET NO. 12

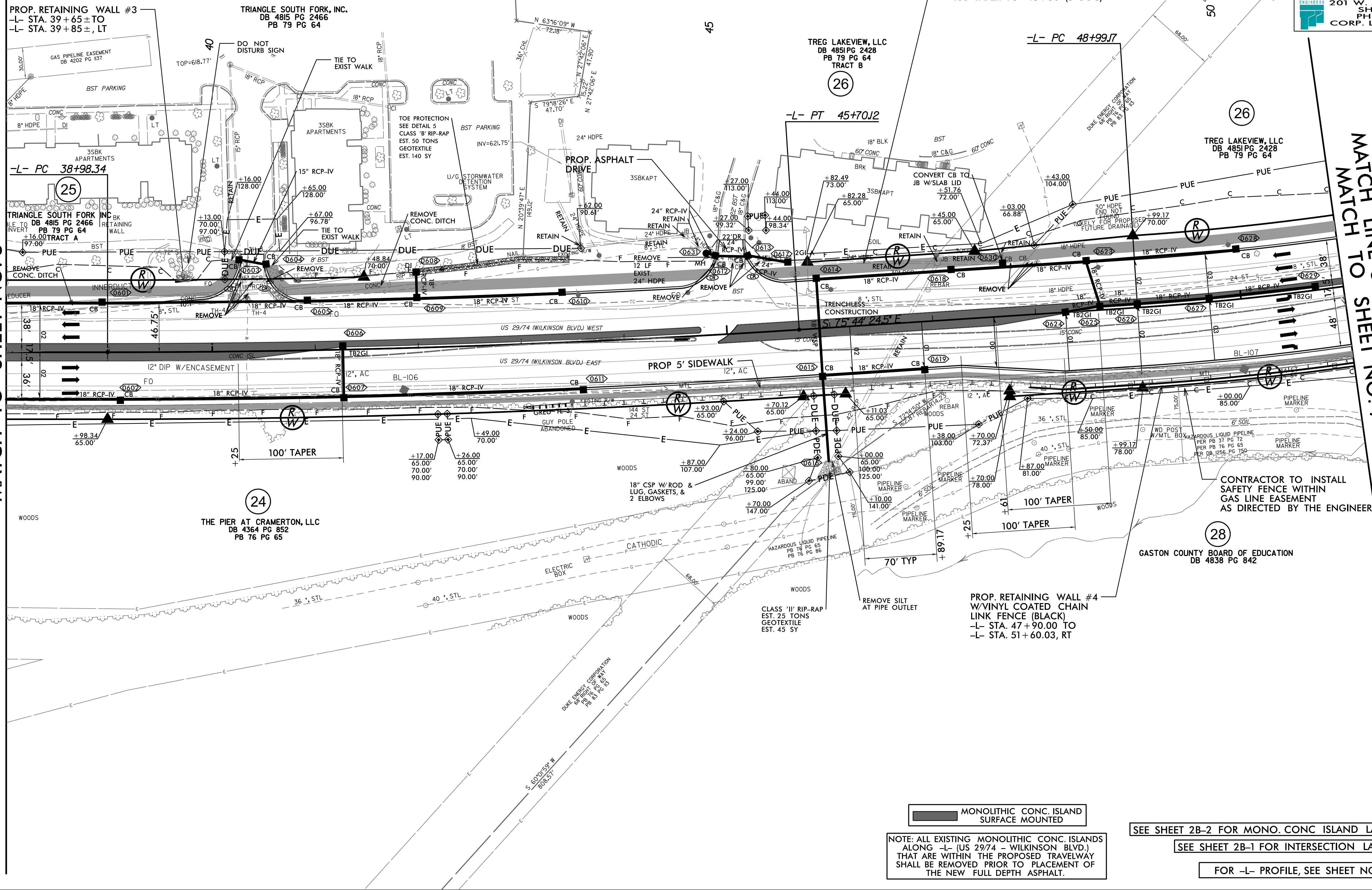
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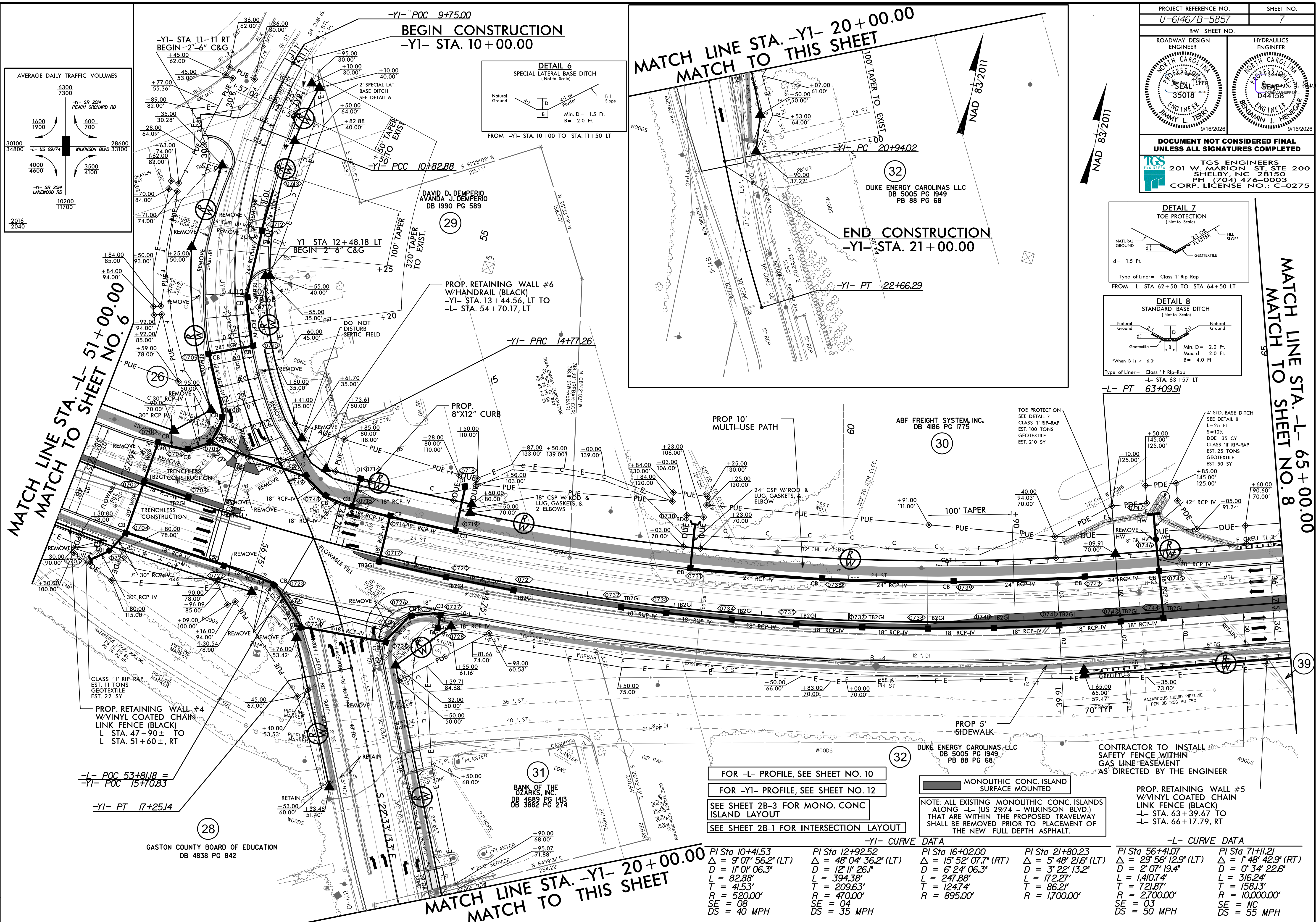
-L- CURVE DATA	
PI Sta 42+34.35	PI Sta 56+21.04
$\Delta = 3^{\circ} 44' 12.9''$ (LT)	$\Delta = 29^{\circ} 56' 12.9''$ (LT)
$D = 0^{\circ} 33' 22.6''$	$D = 2^{\circ} 07' 19.4''$
$L = 671.78'$	$L = 1,410.74'$
$T = 336.01'$	$T = 721.87'$
$R = 10,300.00'$	$R = 2,700.00'$
SE = NC	SE = 03
DS = 60 MPH	DS = 50 MPH



MATCH LINE STA. -L- 38+00.00
MATCH TO SHEET NO. 5



PROJECT REFERENCE NO. U-6146/B-5857		SHEET NO. 6	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			



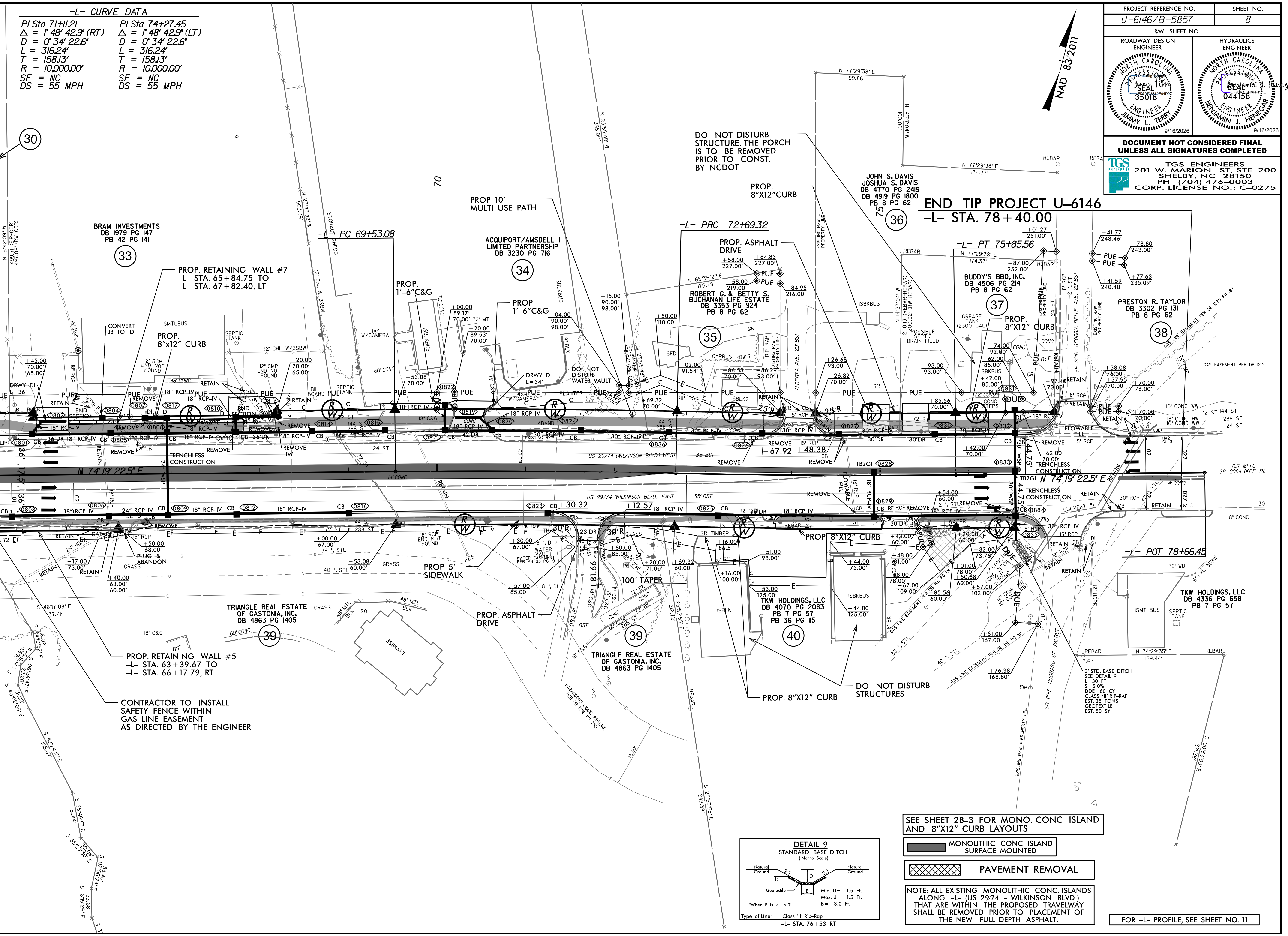
8/17/99

-L- CURVE DATA	
PI Sta 71+11.21	PI Sta 74+27.45
$\Delta = 1^{\circ} 48' 42.9" (RT)$	$\Delta = 1^{\circ} 48' 42.9" (LT)$
$D = 0^{\circ} 34' 22.6"$	$D = 0^{\circ} 34' 22.6"$
$L = 316.24'$	$L = 316.24'$
$T = 158.13'$	$T = 158.13'$
$R = 10,000.00'$	$R = 10,000.00'$
SE = NC	SE = NC
DS = 55 MPH	DS = 55 MPH

NAD 83/2011

PROJECT REFERENCE NO. U-6146/B-5857		SHEET NO. 8	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL ENGINEER 35018 JIMMY L. TERRY 9/16/2026	
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275		NORTH CAROLINA PROFESSIONAL ENGINEER 044158 BENJAMIN J. WENIGER 9/16/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

MATCH LINE STA. -L- 65+00.00
MATCH TO SHEET NO. 7

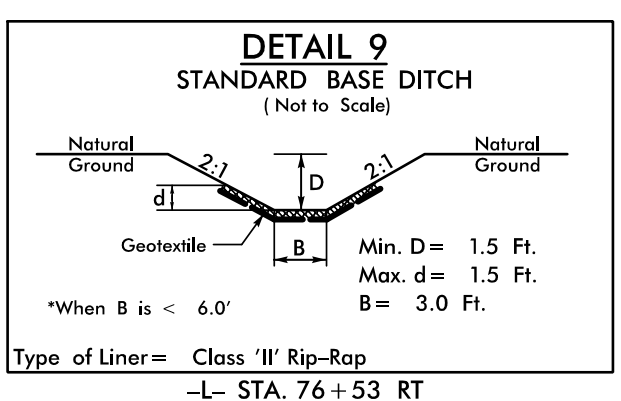


SEE SHEET 2B-3 FOR MONO. CONC. ISLAND AND 8"X12" CURB LAYOUTS

- MONOLITHIC CONC. ISLAND SURFACE MOUNTED
- PAVEMENT REMOVAL

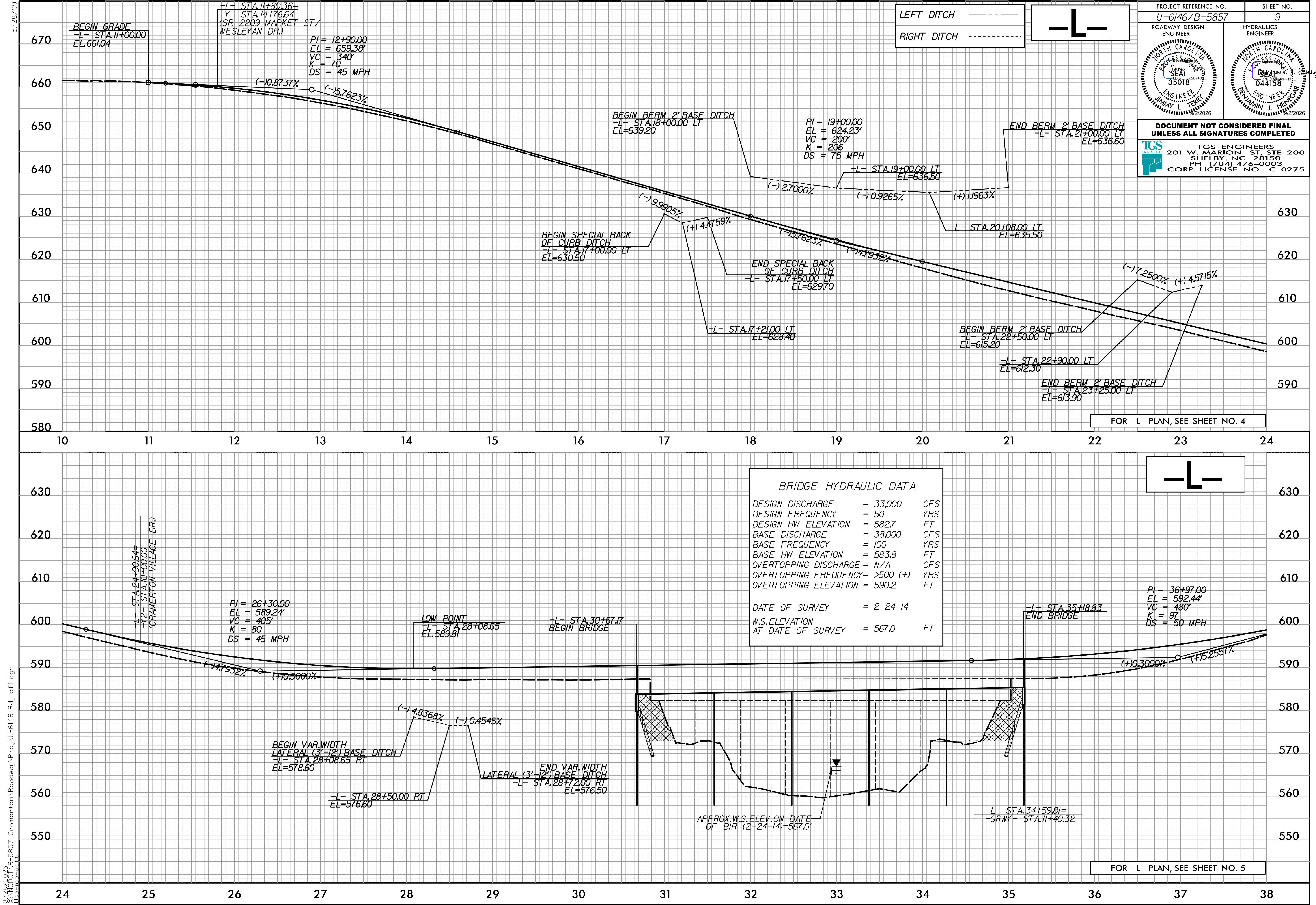
NOTE: ALL EXISTING MONOLITHIC CONC. ISLANDS ALONG -L- (US 29/74 - WILKINSON BLVD.) THAT ARE WITHIN THE PROPOSED TRAVELWAY SHALL BE REMOVED PRIOR TO PLACEMENT OF THE NEW FULL DEPTH ASPHALT.

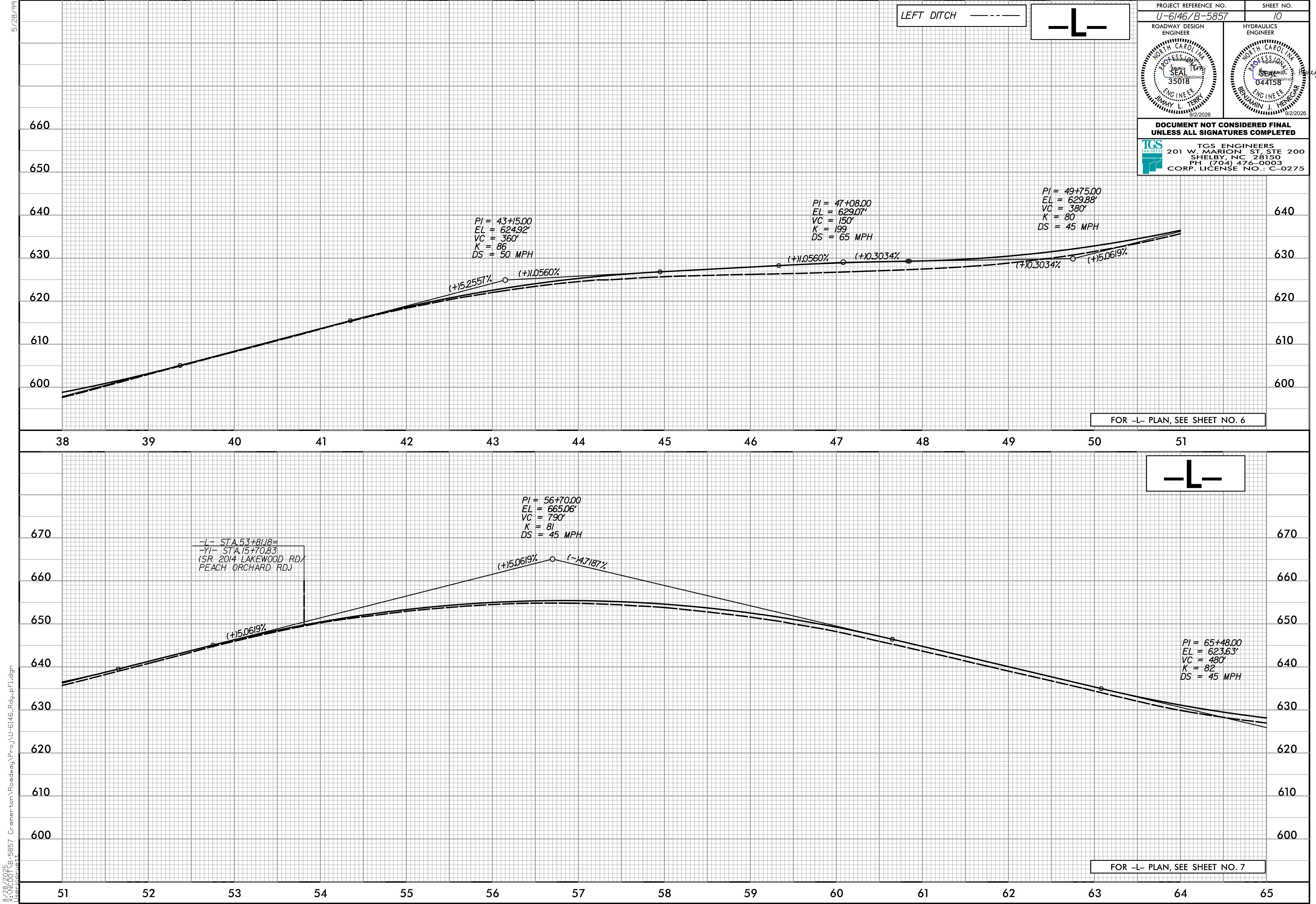
FOR -L- PROFILE, SEE SHEET NO. 11



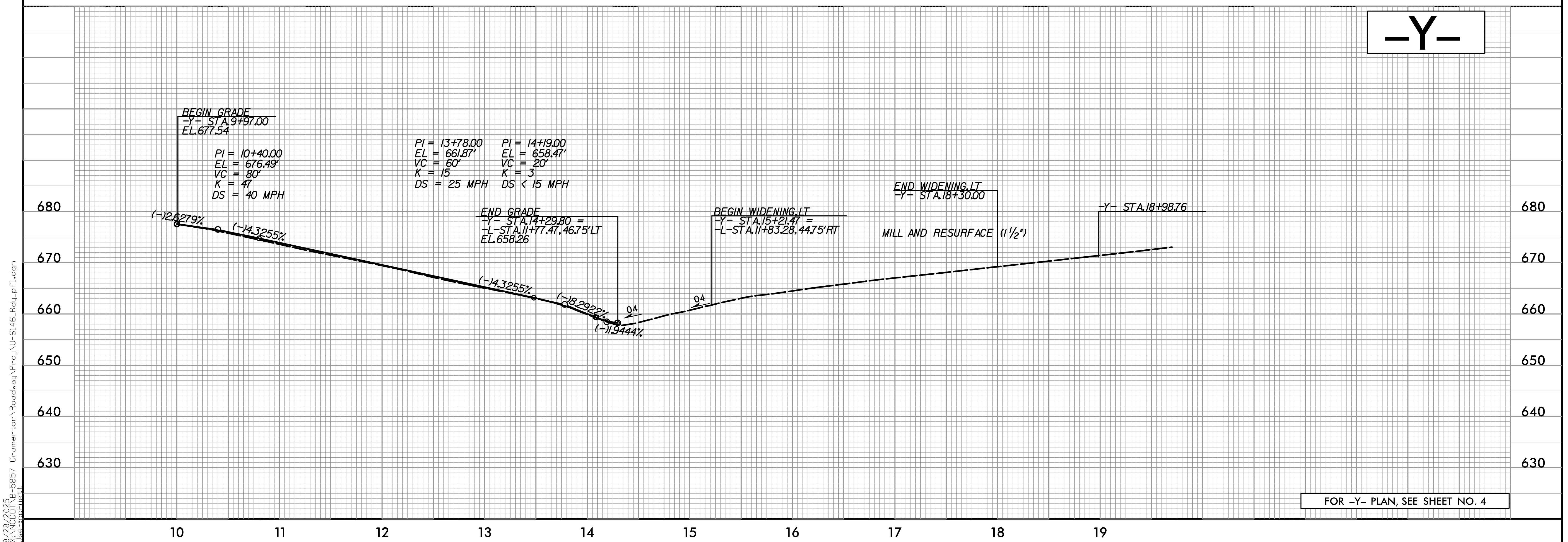
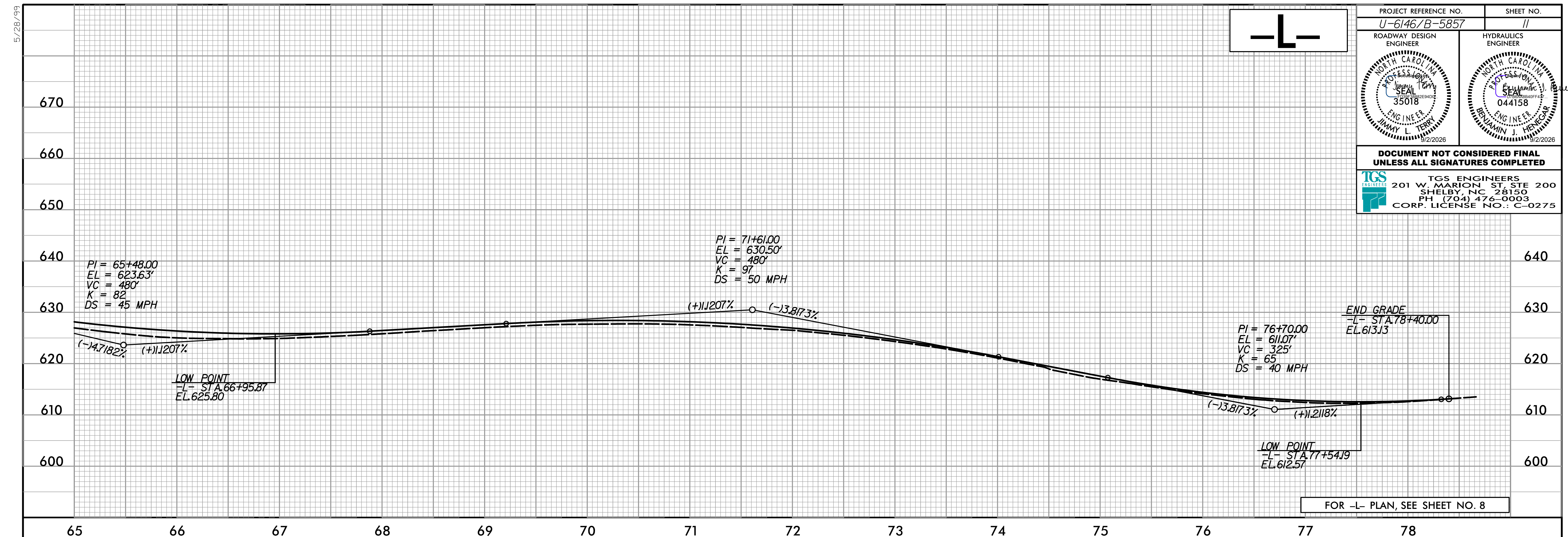
REVISIONS

9/16/2026 U-6146/B-5857 Crumerton\Roadway\Proj\U-6146\B.Rdy.psh.08.dgn
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User: k000000





5/28/99



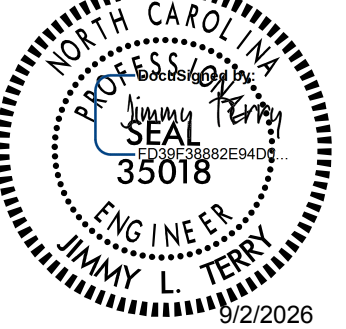
5/28/99

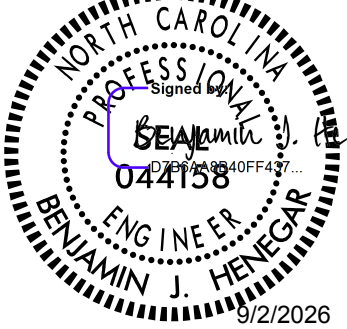
LEFT DITCH

-Y1-

PROJECT REFERENCE NO.
U-6146/B-5857

SHEET NO.
12

ROADWAY DESIGN ENGINEER


HYDRAULICS ENGINEER


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TGS ENGINEERS
201 W. MARION ST. STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

FOR -Y1- PLAN, SEE SHEET NO. 7

-Y2-

-GRWY-

FOR -Y2- PLAN, SEE SHEET NO. 5

FOR -GRWY- PLAN, SEE SHEET NO. 5

8/28/2005 8:36:00 AM U-6146-B-5857-Cramerston\Roadway\Proj\U-6146-Rdy.pfl.dgn User: jterry