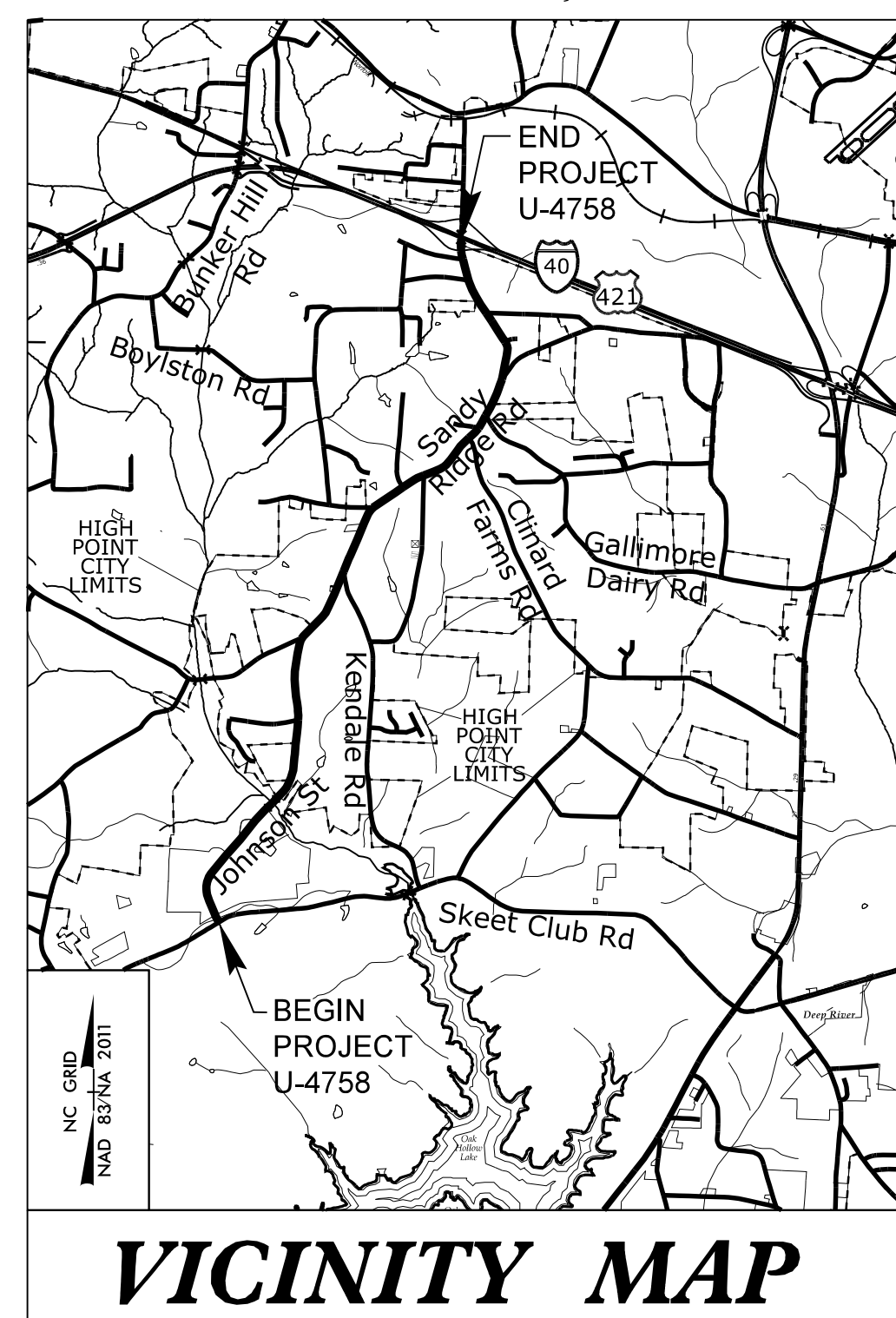


See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

TIP PROJECT: U-4758

CONTRACT: C204971



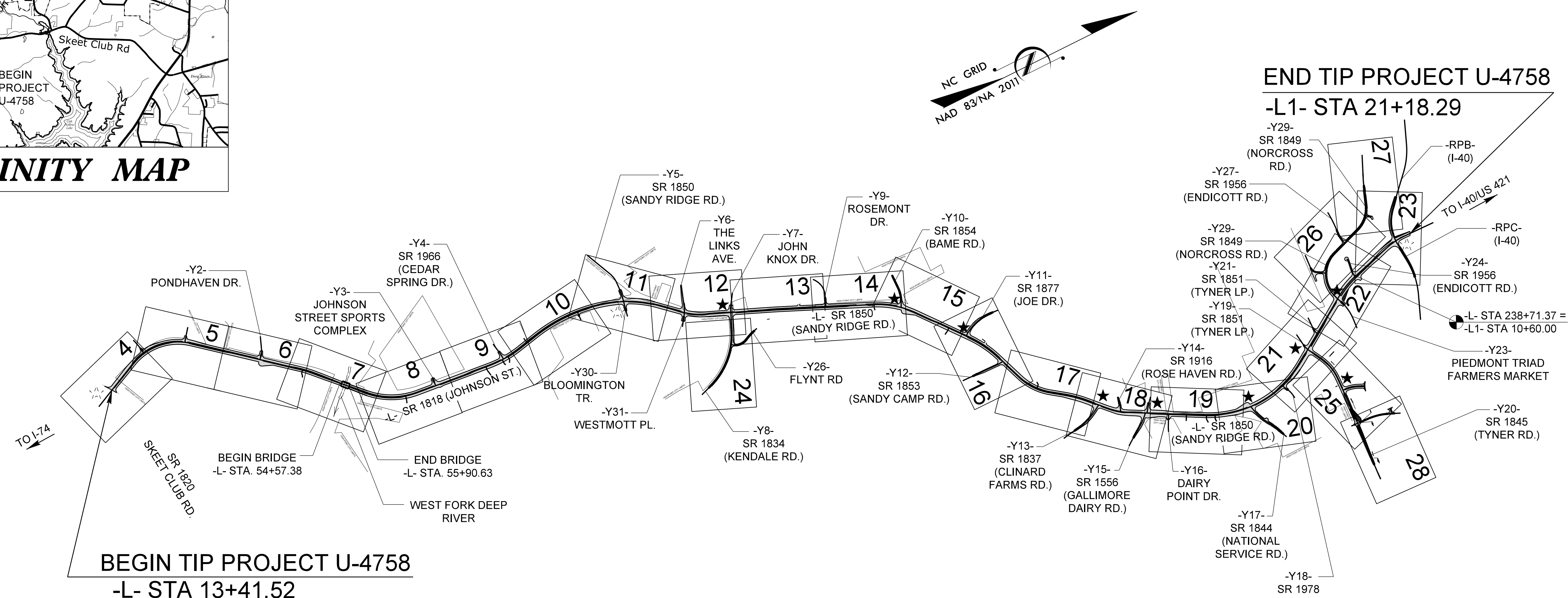
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GUILFORD COUNTY

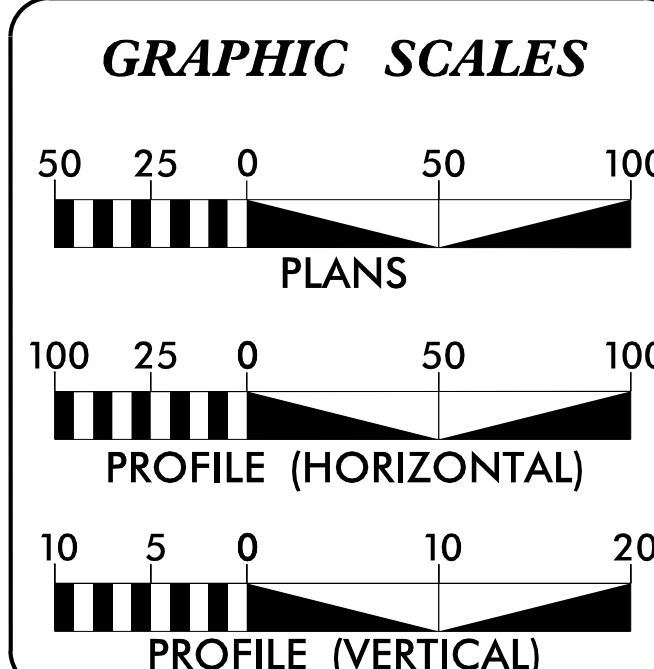
**LOCATION: SR 1818 (JOHNSON STREET)/SR 1850 (SANDY RIDGE ROAD) FROM
SR 1820 (SKEET CLUB ROAD) TO SOUTH OF I-40 IN HIGH POINT**

***TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, RESURFACING, SIGNALS,
AND STRUCTURE***

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4758	1	
STATE PROJ.NO.	F.A. PROJ.NO.	DESCRIPTION	
40251.1.1	0710025/0710027	PE	
40251.2.1	0710027	RW	
40251.2.2	0710027	UTILITIES	
40251.3.1	0710027	CONSTRUCTION	



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



DESIGN DATA

ADT 2025 = 20,200
ADT 2050 = 27,100
K = 11 %
D = 60%
T = 9%*
V = 50 MPH
*TTST = 4% DUAL = 5%
FUNC CLASS =
URBAN ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4758 = 4.442 MILES
LENGTH STRUCTURES TIP PROJECT U-4758 = 0.025 MILES
TOTAL LENGTH TIP PROJECT U-4758 = 4.467 MILES

NCDOT CONTACT: BRYAN KEY, P.E.

Prepared in the Office of:

 AtkinsRéalis 1616 EAST HILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326	 SUNGATE DESIGN GROUP, P.A. 950 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27608 TEL: (919) 876-2043 TXNG-FRAN-LICENSE NO. C-890
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2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 17, 2021

LETTING DATE:
SEPTEMBER 16, 2025

BRUCE B. PAYNE, JR., P.E.
PROJECT ENGINEER

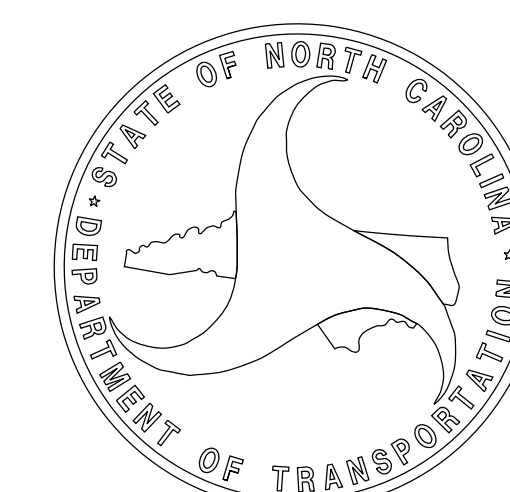
SEAN PEREIRA, P.E.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

8/22/2025

**ROADWAY DESIGN
ENGINEER**

8/22/2025



8/17/99

19 MAY 2025 12:05 PM
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PROJECT REFERENCE NO.		SHEET NO.	
U-4758		1A	
		ROADWAY DESIGN ENGINEER	
		Signed By BRUCE B. PAYNE 022610 5/23/2025 Professional Seal BRUCE B. PAYNE 022610 5/23/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

INDEX OF SHEETS			
SHEET NUMBER	SHEET	GENERAL NOTES:	2024 SPECIFICATIONS EFFECTIVE: 01-16-2024 REVISED:
1	TITLE SHEET		
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS	GRADING AND SURFACING OR RESURFACING AND WIDENING:	
1B	CONVENTIONAL SYMBOLS		
2A-1 THRU 2A-16	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAIL, AND MILLING DETAIL		
2B-1 THRU 2B-11	INTERSECTION DETAILS		
2C-1 THRU 2C-12	DETAIL OF 1'-6" TO 2'-9" CURB & GUTTER TRANSITION SECTION, DETAIL OF 1'-6" CURB & GUTTER TRANSITION SECTION, MINIMUM DEPTH CONCRETE CATCH BASIN DETAIL, DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE, MEDIAN CURB FOR TRAFFIC BEARING GRATED DROP INLET, CONCRETE SIDEWALK, METHOD OF PIPE INSTALLATION (FLEXIBLE PIPE), METHOD OF PIPE INSTALLATION (RIGID PIPE), CURB RAMP (PARALLEL RAMP), GUARDRAIL PLACEMENT (GUARDRAIL TREATMENT AT CURB AND GUTTER), GUARDRAIL PLACEMENT (DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION), CHAIN LINK FENCE WITH BARB WIRE	CLEARING:	
2D-1 THRU 2D-2	DRY DETENTION OUTLET CONTROL STRUCTURE DETAIL, FOREBAY DETAIL, AND REBAR & ORIFICE TRASH RACKS DETAIL		
2G-1 THRU 2G-4	GEOTEXTILE FOR EMBANKMENT STABILIZATION DETAILS (-L- 55+89 - 57+00), TEMPORARY WALL DETAIL (SHEET 1 OF 3), TEMPORARY WALL DETAIL (SHEET 2 OF 3), TEMPORARY WALL DETAIL (SHEET 3 OF 3)	SUPERELEVATION:	
3B-1 THRU 3B-2	GUARDRAIL, PAVEMENT REMOVAL, EARTHWORK, CONCRETE BARRIER AND CHAIN LINK FENCE SUMMARIES		
3D-1 THRU 3D-22	DRAINAGE SUMMARIES	SHOULDER CONSTRUCTION:	
3G-1	GEOTECHNICAL SUMMARIES		
3P-1	PARCEL INDEX SHEET	SIDE ROADS:	
4 THRU 50	PLAN AND PROFILE SHEET		
RW-1 THRU RW-27	SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY	SUBSURFACE DRAINS:	
TMP-1 THRU TMP-66	TRAFFIC MANAGEMENT PLANS		
PMP-01 THRU PMP-26	PAVEMENT MARKING PLANS	DRIVEWAYS:	
E-1 THRU E-2	ELECTRICAL PLANS		
EC-1 THRU EC-52	EROSION CONTROL PLANS		
RF-1	REFORESTATION PLANS	STREET TURNOUT:	
SIGN-1 THRU SIGN-29	SIGNING PLANS		
SIG-1.0 THRU SIG-M9	SIGNAL PLANS	GUARDRAIL:	
SCP-01 THRU SCP-28	SIGNAL COMMUNICATION PLANS		
UC-1 THRU UC-33	UTILITIES CONSTRUCTION PLANS	TEMPORARY SHORING:	
UO-1 THRU UO-25	UTILITIES BY OTHERS PLANS		
X-0A THRU X-0J	CROSS-SECTION INDEX AND SUMMARY SHEETS	END BENTS:	
X-1 THRU X-169	CROSS-SECTIONS		
S-1 THRU S-56	STRUCTURE PLANS	UTILITIES:	
W-1 THRU W-8	RETAINING WALL PLANS		
		UTILITY OWNERS ON THIS PROJECT ARE AT&T, LUMOS, SEGRA, CenturyLink/Lumen, PNG, City of High Point Power/Water/Sewer, Duke Energy Spectrum, Brightspeed	
		ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.	
		RIGHT-OF-WAY MARKERS:	
		ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.	
		CURB RAMPS	
		CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.	
		2024 ROADWAY ENGLISH STANDARD DRAWINGS	
		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	
		200.02 Method of Clearing - Method II	
		225.02 Guide for Grading Subgrade - Secondary and Local	
		225.04 Method of Obtaining Super-elevation - Two Lane Pavement	
		DIVISION 3 - PIPE CULVERTS	
		300.01 Method of Pipe Installation	
		310.10 Driveway Pipe Construction	
		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	
		DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
		560.01 Method of Shoulder Construction - High Side of Super-elevated Curve - Method I	
		DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
		654.01 Pavement Repairs	
		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	
		840.04 Concrete Open Throat Catch Basin - 12" thru 48" Pipe	
		840.05 Brick Open Throat Catch Basin - 12" thru 48" Pipe	
		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	
		840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe	
		840.22 Frames and Wide Slot Sag Grates	
		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	
		840.28 Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe	
		840.29 Frames and Narrow Slot Flat Grates	
		840.31 Concrete Junction Box - 12" thru 66" Pipe	
		840.32 Brick Junction Box - 12" thru 66" Pipe	
		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	
		848.01 Concrete Sidewalk	
		848.02 Driveway Turnout - Radius Type	
		848.03 Driveway Turnout - Drop Curb Type	
		848.04 Street Turnout	
		848.06 Curb Ramp (Use Details in Lieu of Standards for Sheets 9 and 10 of 13)	
		852.01 Concrete Islands	
		852.04 Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter	
		852.06 Method for Placement of Drop Inlets in Concrete Islands	
		852.07 Median Curb for Traffic Bearing Grated Drop Inlet for Use with 2'-9" Curb and Gutter	
		857.01 Precast Reinforced Concrete Barrier - 41" Single Faced	
		862.01 Guardrail Placement	
		862.02 Guardrail Installation	
		862.03 Structure Anchor Units	
		862.04 Anchoring End of Guardrail - for B-77 and B-83 Anchor Units	
		866.01 Chain Link Fence - 4', 5' and 6' High Fence	
		876.01 Rip Rap in Channels and Ditches	
		876.02 Guide for Rip Rap at Pipe Outlets	
		876.03 Drainage Ditches with Class 'A' Rip Rap	
		876.04 Drainage Ditches with Class 'B' Rip Rap	

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel/Sequence Number	
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	

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	

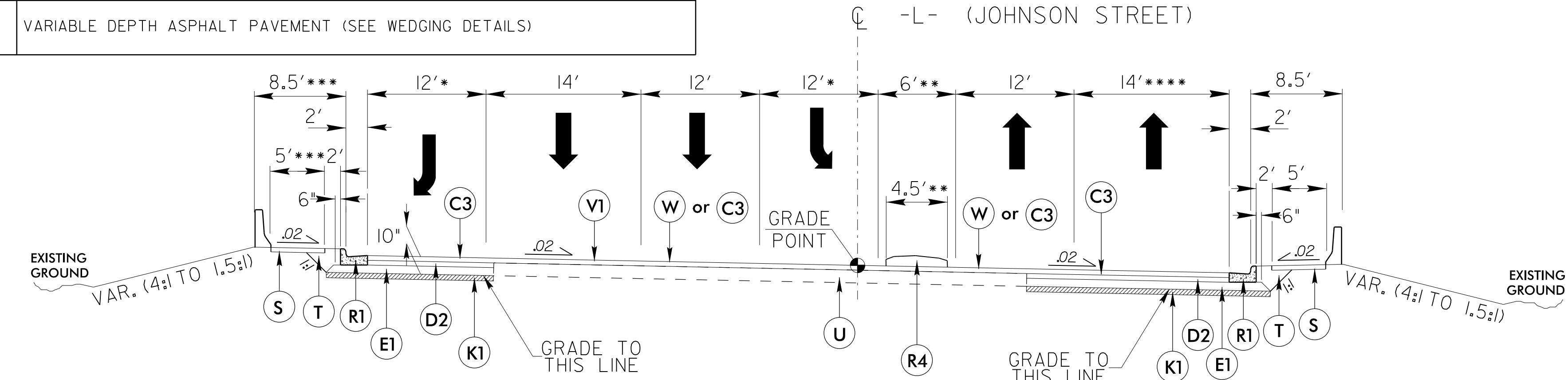
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FINAL PAVEMENT SCHEDULE	
A1	6" PORTLAND CEMENT CONCRETE PAVEMENT (CONCRETE DRIVEWAY)
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C5	PROP. 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 1/2" OR GREATER THAN 1 1/2" IN DEPTH.
C6	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1 1/2" OR GREATER THAN 2" IN DEPTH.
C7	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E2	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E3	PROP. APPROX. 4 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
E4	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E5	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E6	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN FIRST 4" LAYER AND AN AVERAGE RATE OF 342 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN REMAINING 3" LAYER.
E7	PROP. 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 1/2" IN DEPTH.
J1	PROP. 4" AGGREGATE BASE COURSE
J2	PROP. 8" AGGREGATE BASE COURSE
K1	PROP. 8" LIME STABILIZATION (METHOD-SLURRY) AT A RATE OF 24 LBS. PER SQ. YD. OR 7" CEMENT STABILIZATION AT A RATE OF 56 LBS. PER SQ. YD. 50/50 SPLIT TO BE USED AT THE DISCRETION OF THE ENGINEER.
K2	PROP. 12" CLASS IV SUBGRADE STABILIZATION
N	GEOTEXTILE FOR SUBGRADE STABILIZATION
R1	2'-6" CONCRETE CURB AND GUTTER
R2	1'-6" CONCRETE CURB AND GUTTER
R3	2'-9" CONCRETE CURB AND GUTTER

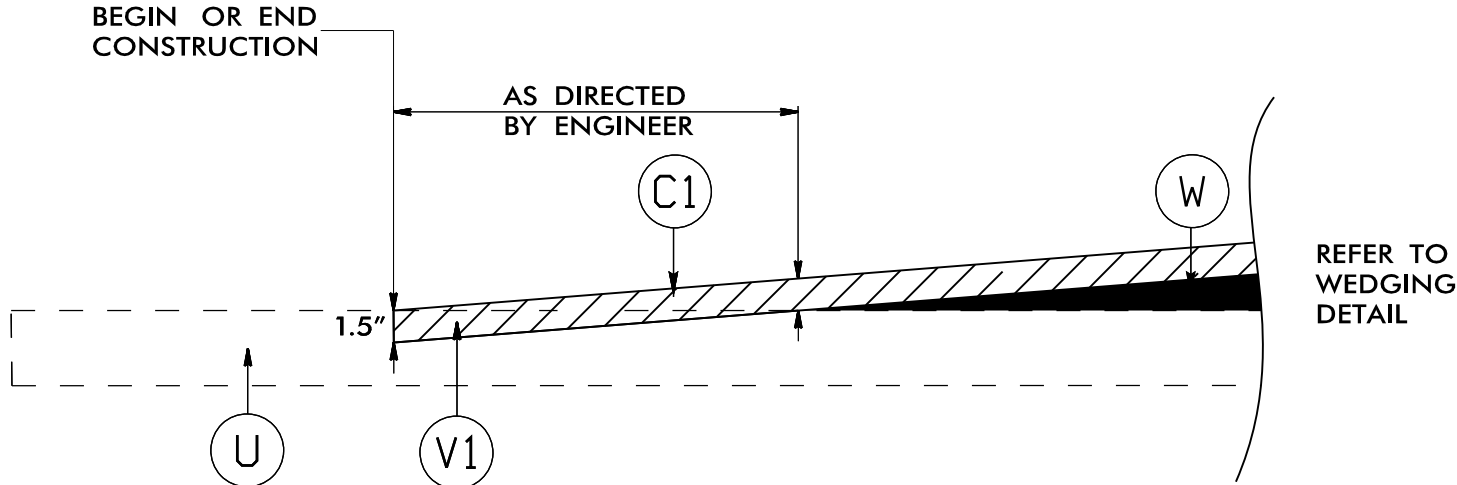
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
@ BARRIER DESIGN TO BE DETERMINED BY STRUCTURES MANAGEMENT UNIT

R4	5" MONOLITHIC CONCRETE ISLAND
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	1.5" MILLING
V2	2.5" MILLING
V3	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAILS)

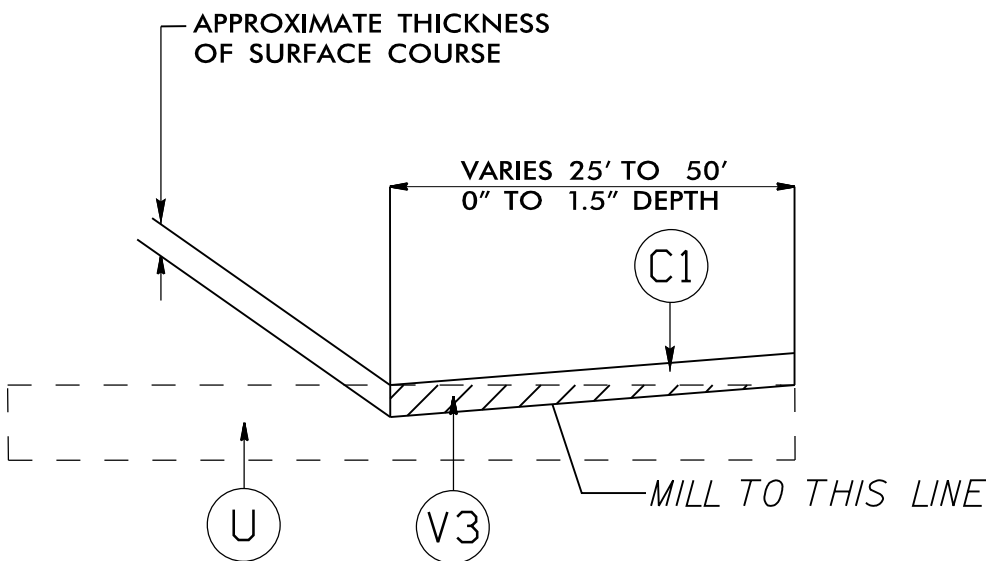


TYPICAL SECTION 1
-L- STA. 13+41.52 TO 19+35.00

NOTE: *WIDTH VARIES 0'-12' SEE PLAN VIEW FOR DETAILS.
**MONOLITHIC ISLAND WIDTH VARIES 4.5'-10' AND TRANSITIONS FROM MONOLITHIC ISLAND TO CURB AND GUTTER. SEE PLAN VIEW FOR DETAILS.
*** END BARRIER AND START TRANSITION FROM 5' SIDEWALK TO 10' MULTI-USE PATH WITH A 14' BERM AT STA. 16+50.00 SEE PLAN VIEW FOR DETAILS.
**** TRANSITION LANE WIDTH FROM 14'-16' 4' BIKE LANE BEGINS AT STA. 16+90.12 SEE PLAN VIEW FOR DETAILS.

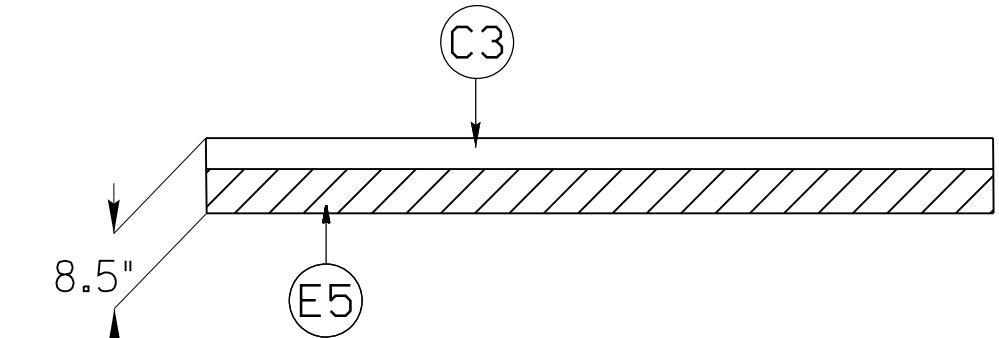


MILLING DETAIL
DETAIL SHOWING PROFILE VIEW

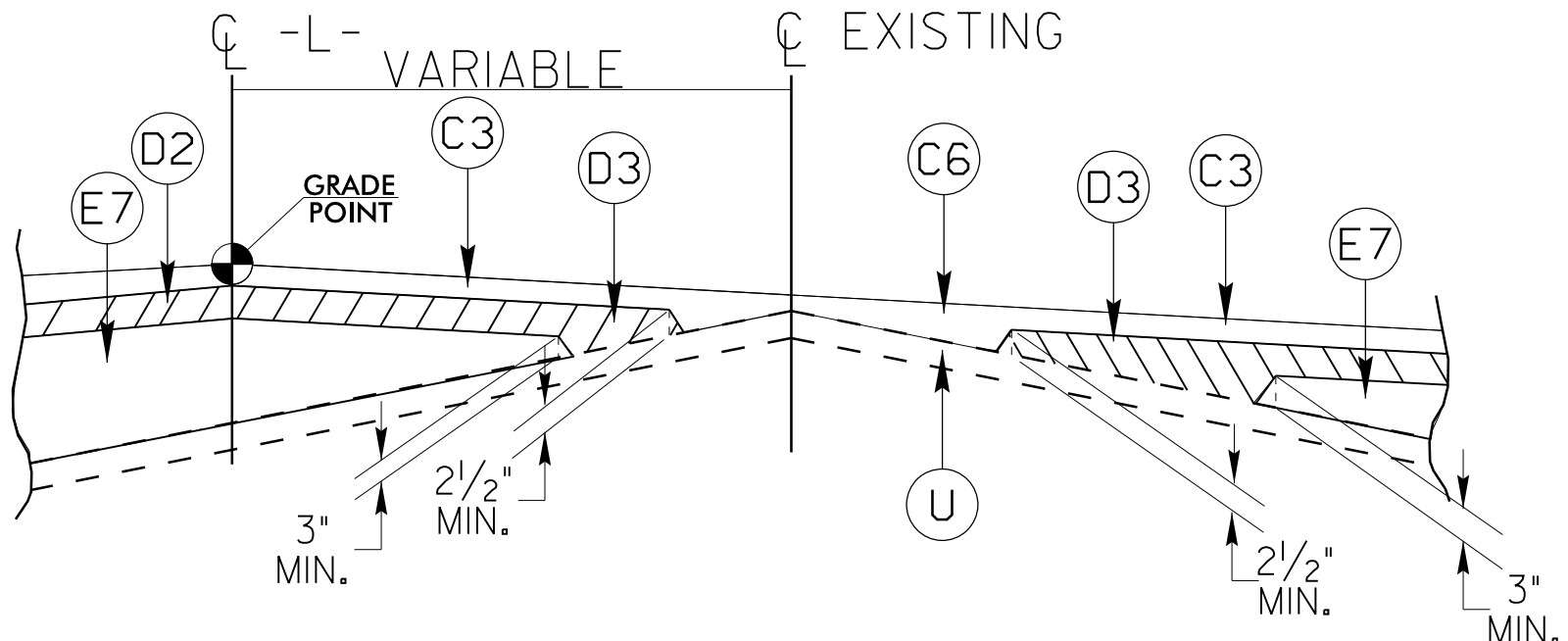


DETAIL FOR INCIDENTAL MILLING
USE MILLING DETAIL AT RESURFACING TIES

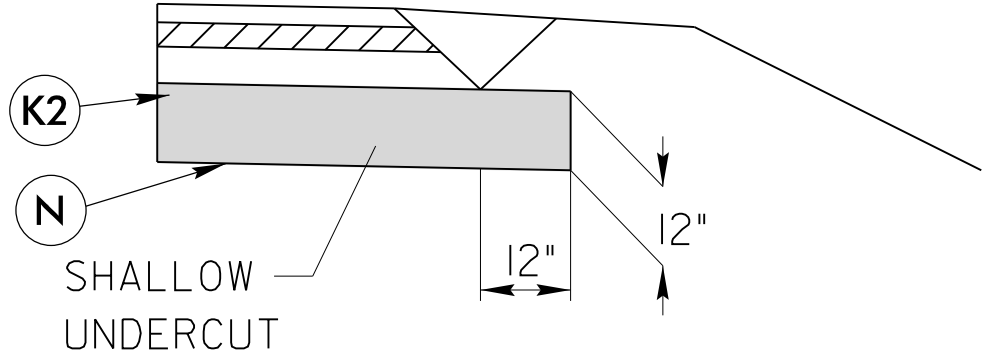
NOTE: A TEMPORARY ASPHALT WEDGE WILL BE REQUIRED IMMEDIATELY AFTER MILLING TO ENSURE SMOOTH TRAVEL IF THE FINAL LAYER OF SURFACE COURSE IS NOT PLACED ON THE SAME DAY AS MILLING.



TEMPORARY PAVEMENT
TEMPORARY PAVEMENT SECTION
ONLY FOR USE DURING TMP



DETAIL SHOWING METHOD OF WEDGING

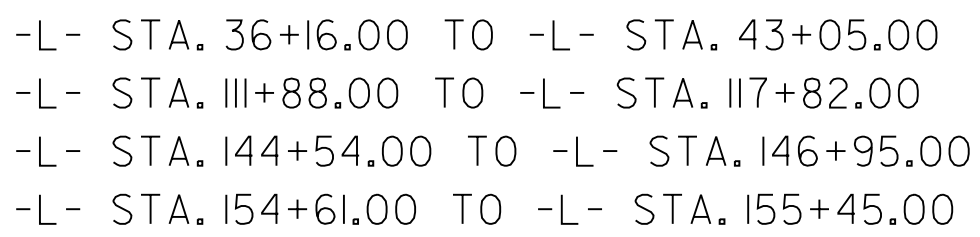


DETAIL OF SHALLOW UNDERCUT

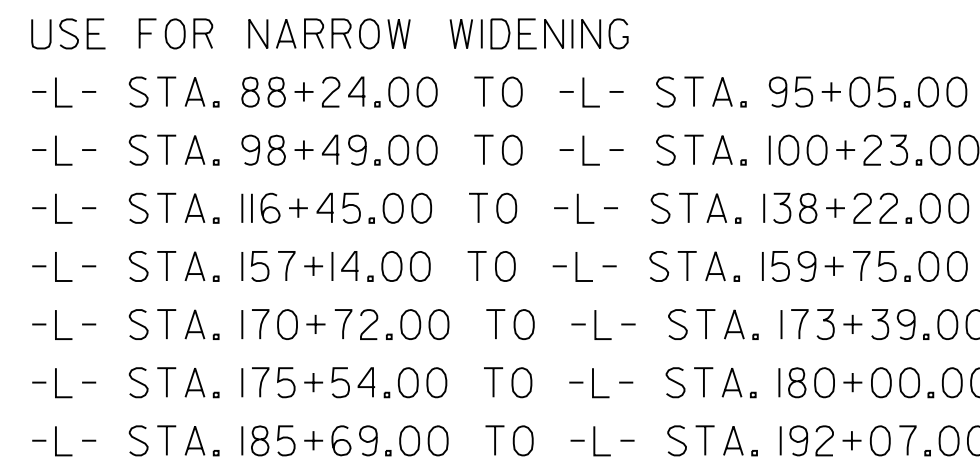
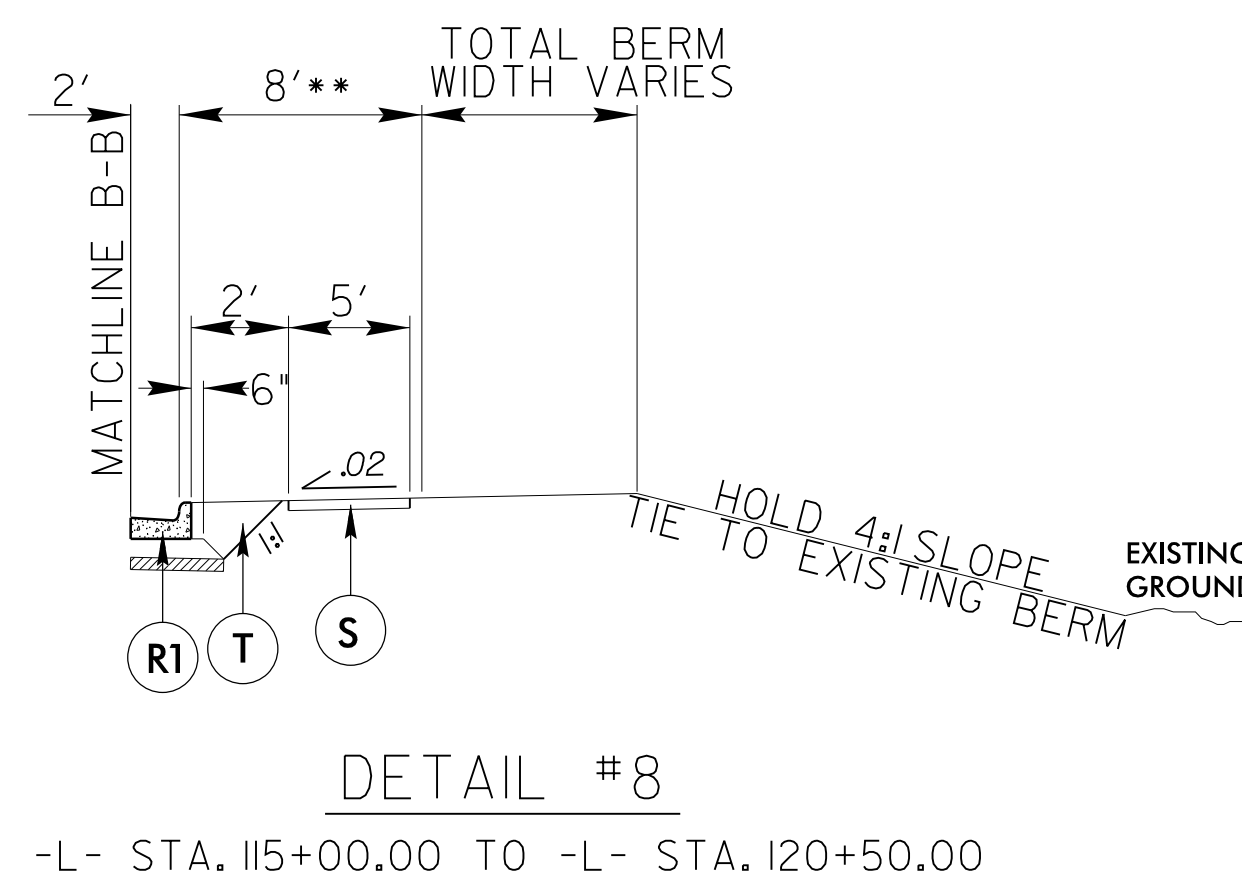
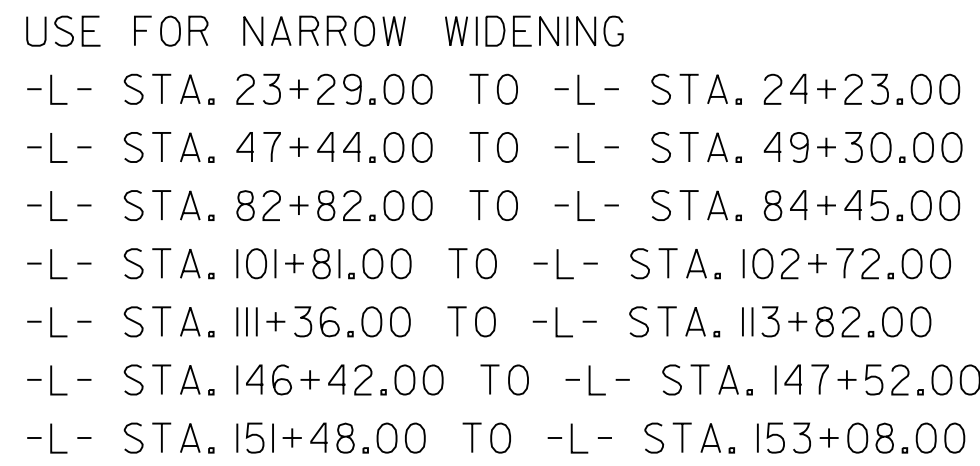
- Y5- STATION 14+75+/- TO 16+75+/-
- Y12- STATION 13+25+/- TO 15+25+/-
- Y13- STATION 10+75+/- TO 16+25+/-
- Y17- STATION 13+25+/- TO 14+25+/-

PROJECT REFERENCE NO. <i>U-4758</i>		SHEET NO. <i>2A-1</i>
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

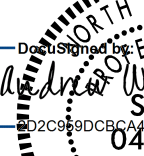


NOTE: * WIDEN BERM 2' FOR GUARDRAIL
 ** WIDEN BERM 6' FOR GUARDRAIL
 SEE PLANS FOR MEDIAN AND
 LEFT TURN DETAILS AT INTERSECTIONS
 SEE PLANS FOR 1'-6" C&G
 AND 2'-9" C&G LOCATIONS



NOTE: THERE IS MUP THROUGH THIS STATION RANGE
-L- STA. 196+44.00 TO -L- STA. 198+94.00

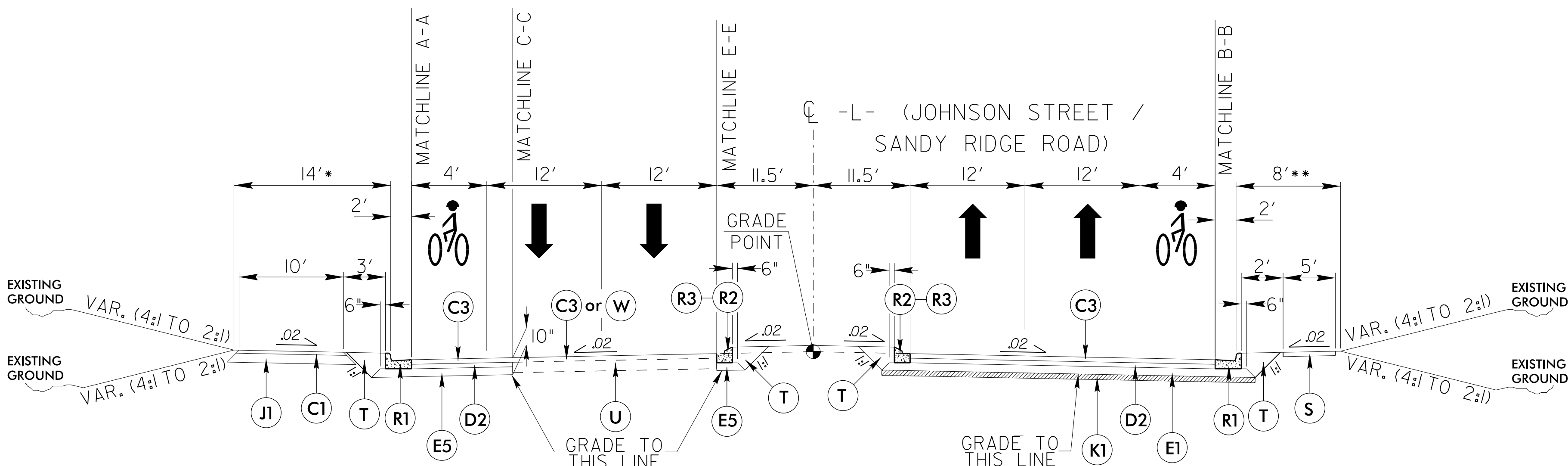
PAVEMENT SCHEDULE	
C1	1½" S9.5C
C3	3" S9.5C
D2	4" 119.0C
E1	3" B25.0C
E5	5½" B25.0C
J1	4" ABC
K1	CHEMICAL STABILIZATION
R1	2'-6" C&G
R2	1'-6" C&G
R3	2'-9" C&G
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2A-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER  8/22/2025	PAVEMENT DESIGN ENGINEER  8/25/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/99

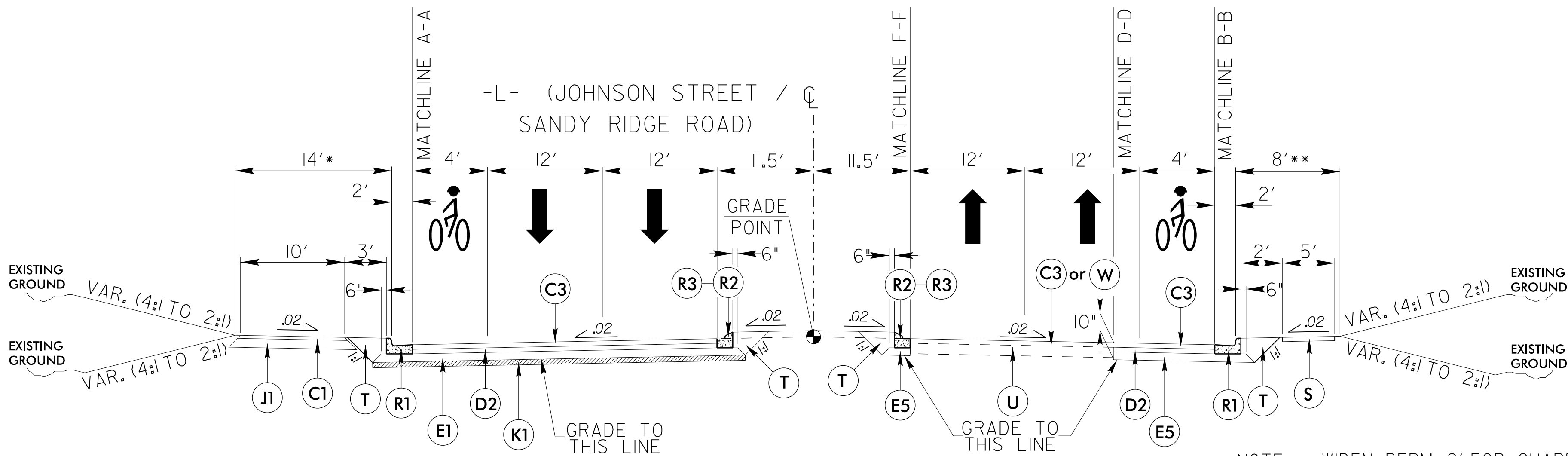
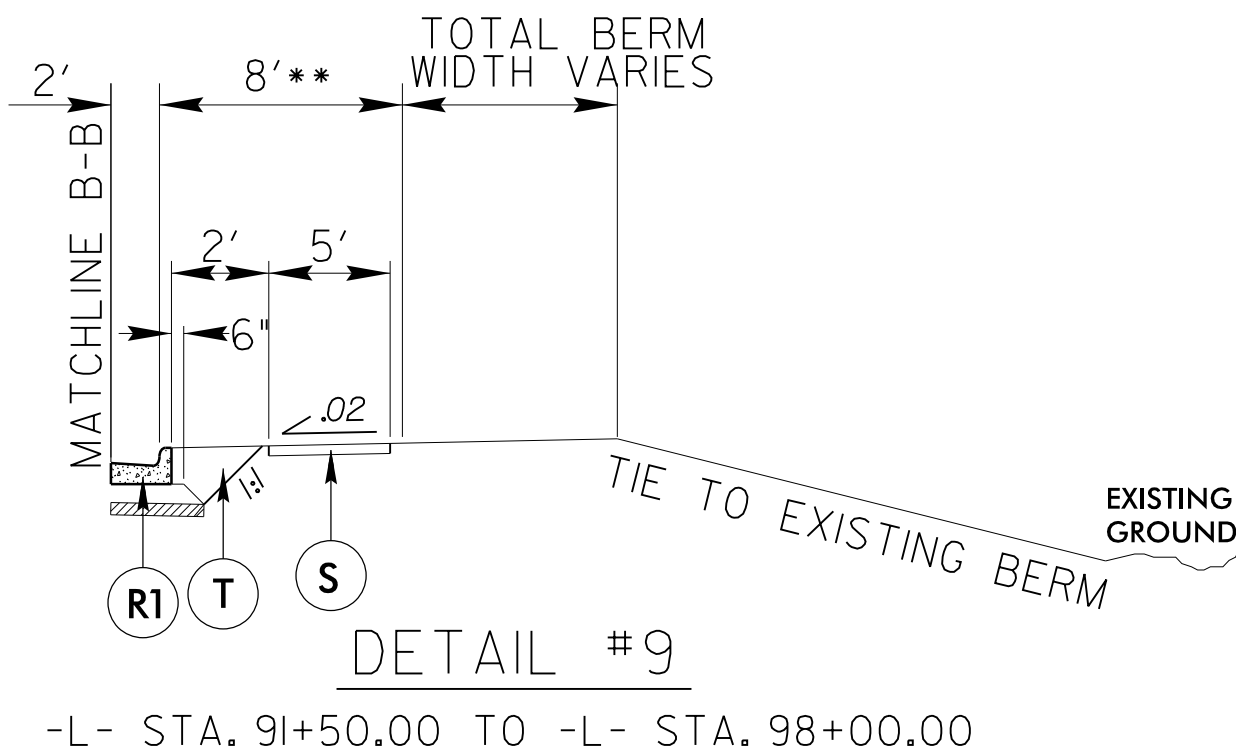
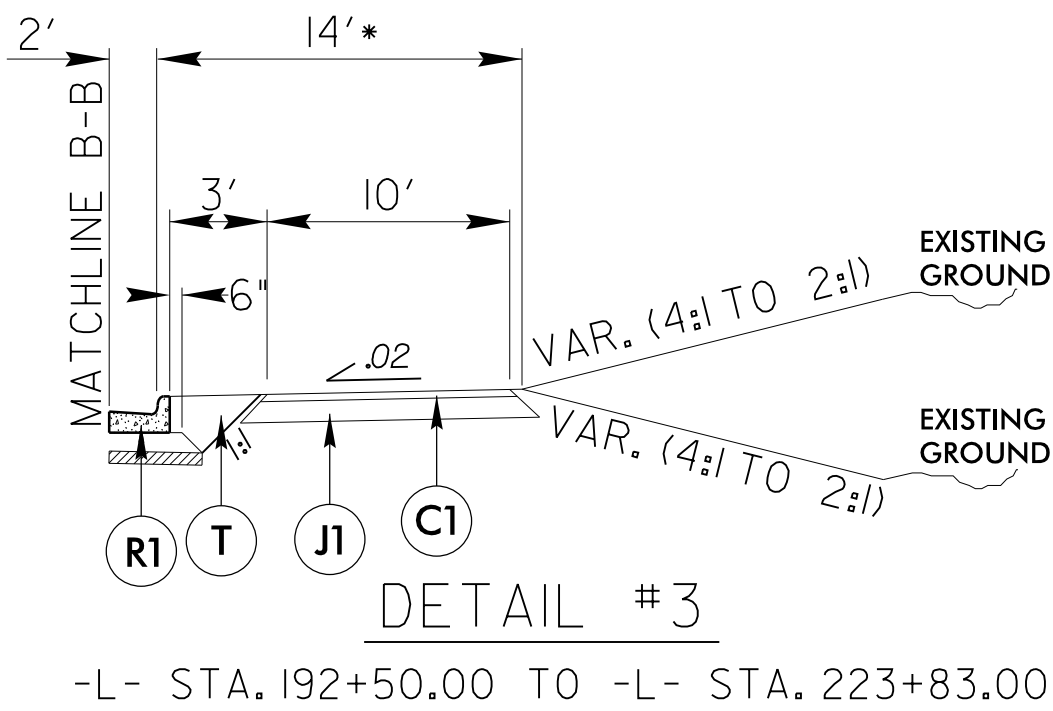
REVISIONS

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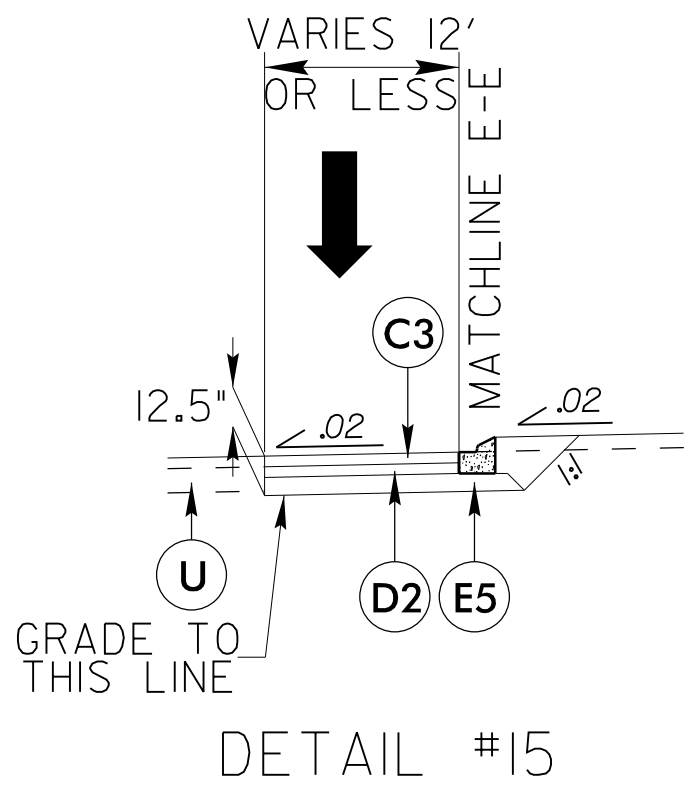
NOTE: * WIDEN BERM 2' FOR GUARDRAIL
** WIDEN BERM 6' FOR GUARDRAIL
SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS
SEE PLANS FOR 1'-6" C&G
AND 2'-9" C&G LOCATIONS

-L- STA. 21+21.00 TO -L- STA. 36+16.00
-L- STA. 43+05.00 TO -L- STA. 49+55.00
-L- STA. 81+30.00 TO -L- STA. 86+10.00
-L- STA. 102+45.00 TO -L- STA. 105+01.00
-L- STA. 108+70.00 TO -L- STA. 111+88.00
-L- STA. 146+95.00 TO -L- STA. 154+61.00
-L- STA. 200+44.00 TO -L- STA. 205+65.00
-L- STA. 211+00.00 TO -L- STA. 212+86.00
-L- STA. 217+62.00 TO -L- STA. 223+83.00

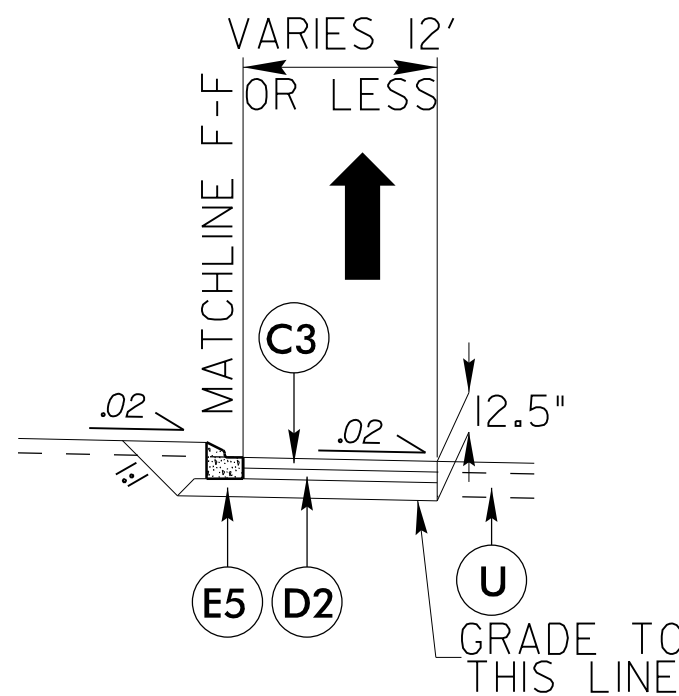


-L- STA. 19+35.00 TO -L- STA. 21+21.00
-L- STA. 86+10.00 TO -L- STA. 102+45.00
-L- STA. 117+82.00 TO -L- STA. 144+54.00
-L- STA. 155+45.00 TO -L- STA. 161+90.00
-L- STA. 166+80.00 TO -L- STA. 200+44.00
-L- STA. 212+86.00 TO -L- STA. 217+62.00

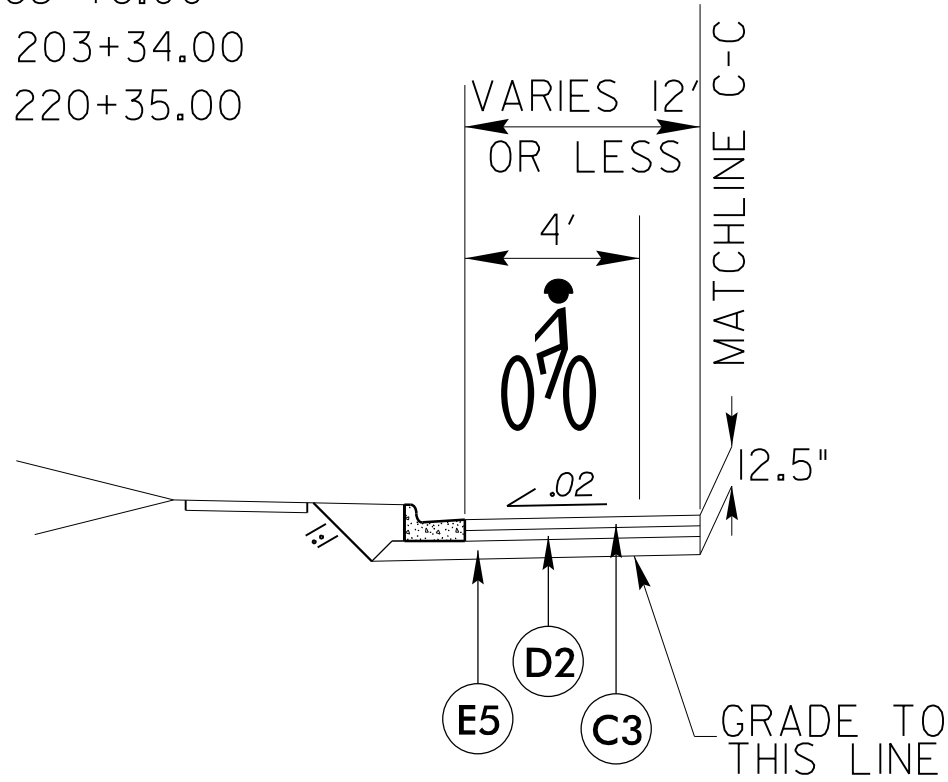
NOTE: * WIDEN BERM 2' FOR GUARDRAIL
** WIDEN BERM 6' FOR GUARDRAIL
SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS
SEE PLANS FOR 1'-6" C&G AND 2'-9"
C&G LOCATIONS



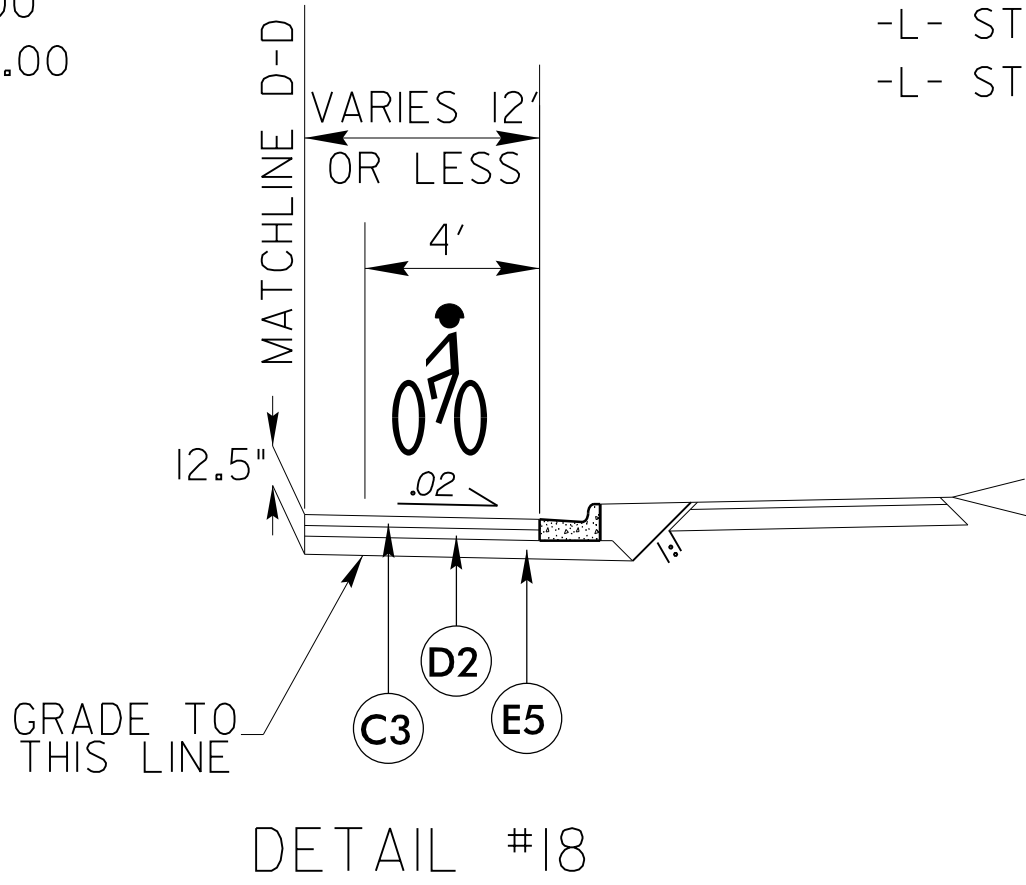
USE FOR NARROW WIDENING
-L- STA. 23+01.00 TO -L- STA. 26+87.00
-L- STA. 48+25.00 TO -L- STA. 50+00.00
-L- STA. 82+82.00 TO -L- STA. 83+78.00
-L- STA. 202+18.00 TO -L- STA. 203+34.00
-L- STA. 218+87.00 TO -L- STA. 220+35.00



USE FOR NARROW WIDENING
-L- STA. 88+75.00 TO -L- STA. 94+28.00
-L- STA. 97+90.00 TO -L- STA. 99+16.00
-L- STA. 172+62.00 TO -L- STA. 177+37.00



USE FOR NARROW WIDENING
-L- STA. 201+76.00 TO -L- STA. 202+98.00
-L- STA. 211+56.00 TO -L- STA. 212+30.00
-L- STA. 218+50.00 TO -L- STA. 219+81.00



USE FOR NARROW WIDENING
-L- STA. 213+43.00 TO -L- STA. 213+98.00
-L- STA. 216+34.00 TO -L- STA. 216+78.00

PAVEMENT SCHEDULE	
C1	1 1/2" S9.5C
C3	3" S9.5C
D2	4" 119.0C
E1	3" B25.0C
E5	5 1/2" B25.0C
J1	4" ABC
K1	CHEMICAL STABILIZATION
R1	2'-6" C&G
R2	1'-6" C&G
R3	2'-9" C&G
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.
U-4758

SHEET NO.
2A-3

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGINEER

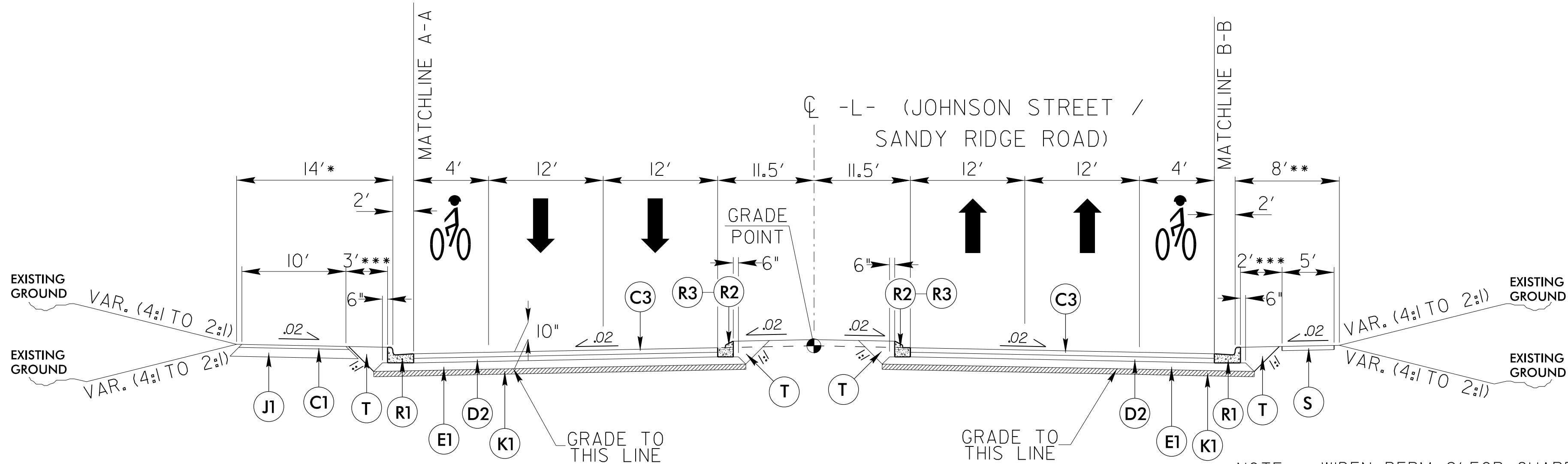
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

8/17/99

REVISIONS

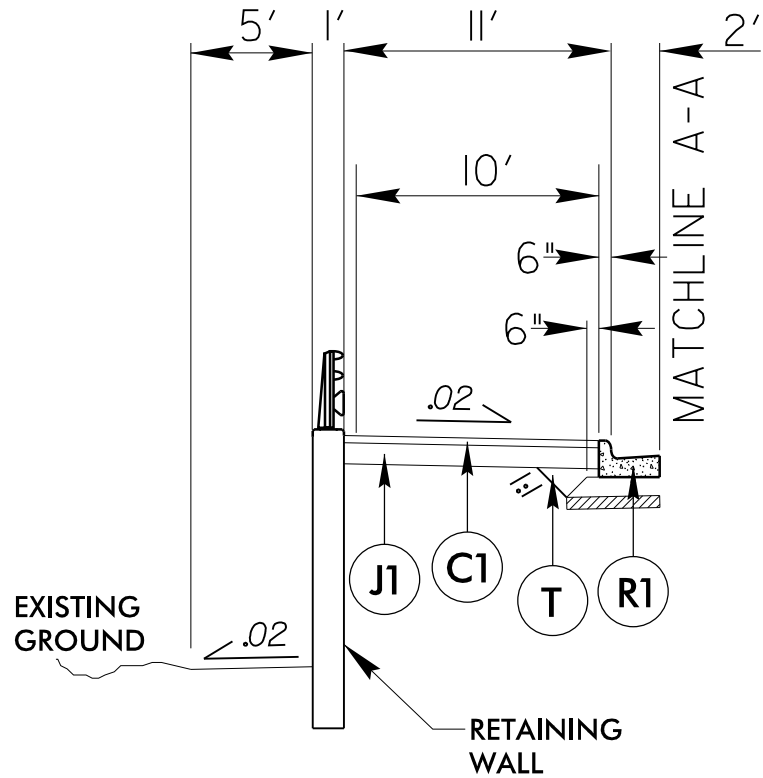
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TYPICAL SECTION 5

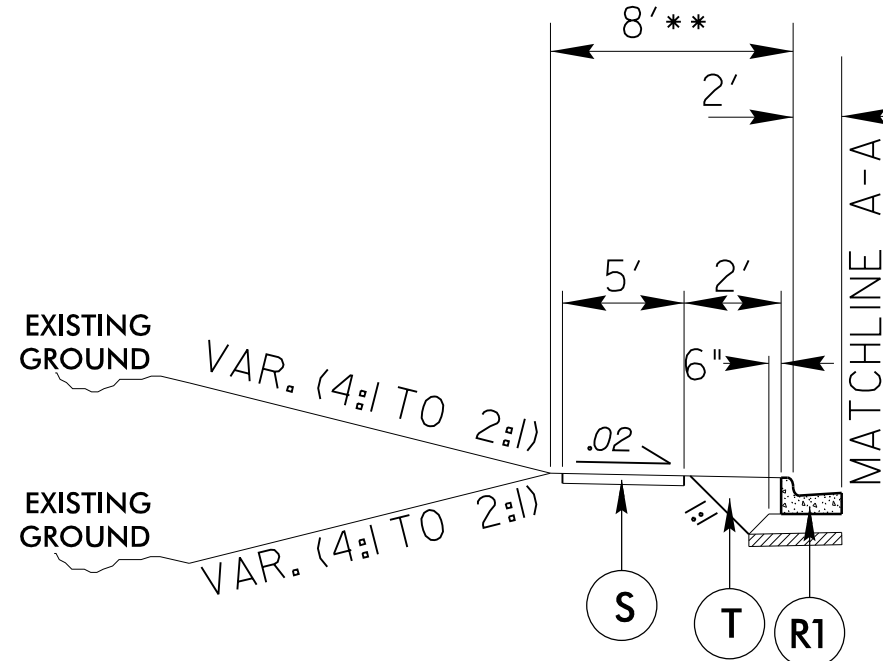
-L- STA. 49+55.00 TO -L- STA. 54+57.38 (BEGIN BRIDGE)
-L- STA. 55+90.63 (END BRIDGE) TO -L- STA. 81+30.00
-L- STA. 105+01.00 TO -L- STA. 108+70.00
-L- STA. 161+90.00 TO -L- STA. 166+80.00
-L- STA. 205+65.00 TO -L- STA. 211+00.00

NOTE: * WIDEN BERM 2' FOR GUARDRAIL
** WIDEN BERM 6' FOR GUARDRAIL
*** PLANTING STRIP WIDTHS VARY
APPROACHING AND LEAVING THE BRIDGE
SEE PLANS FOR DETAILS.
SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS
SEE PLANS FOR 1'-6" C&G AND 2'-9" C&G LOCATIONS



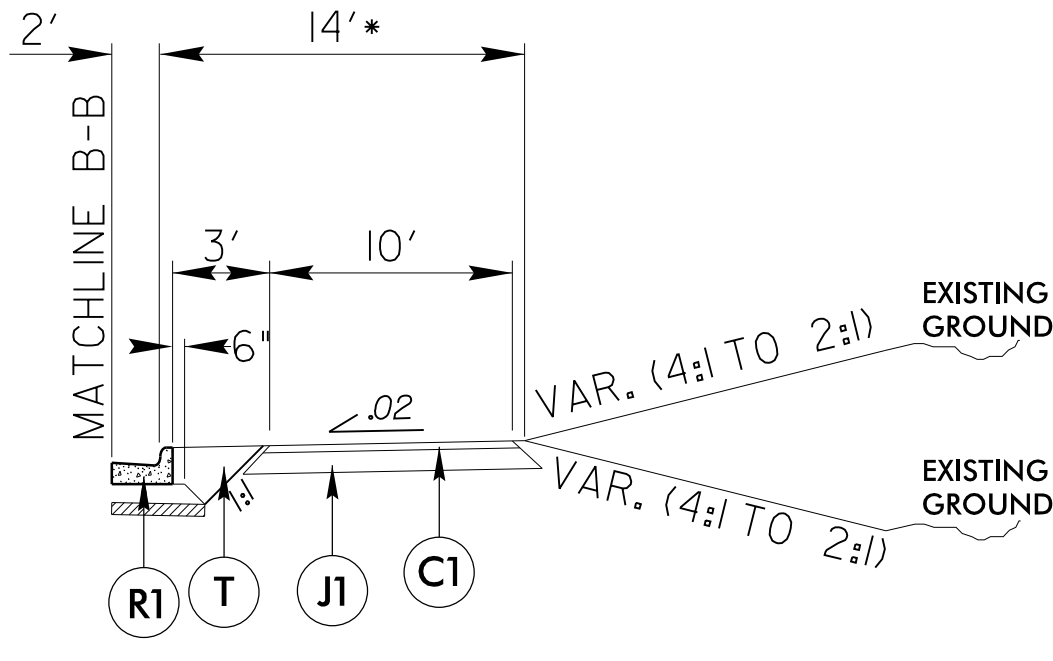
DETAIL #2

-L- STA. 55+89.00 TO -L- STA. 58+85.00



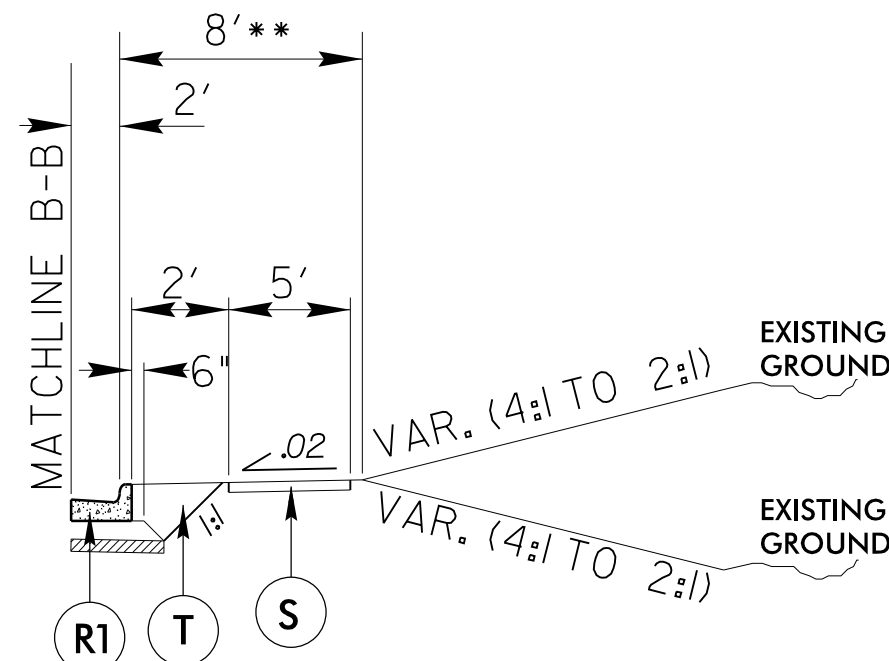
DETAIL #5

-L- STA. 193+13.00 TO -L- STA. 223+83.00



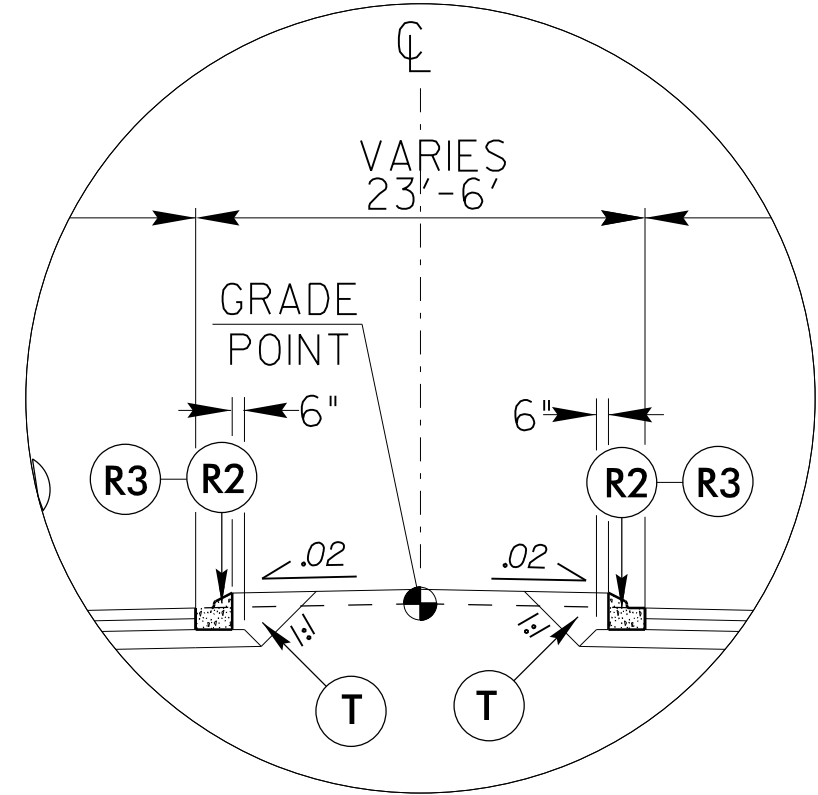
DETAIL #6

-L- STA. 192+50.00 TO -L- STA. 223+83.00



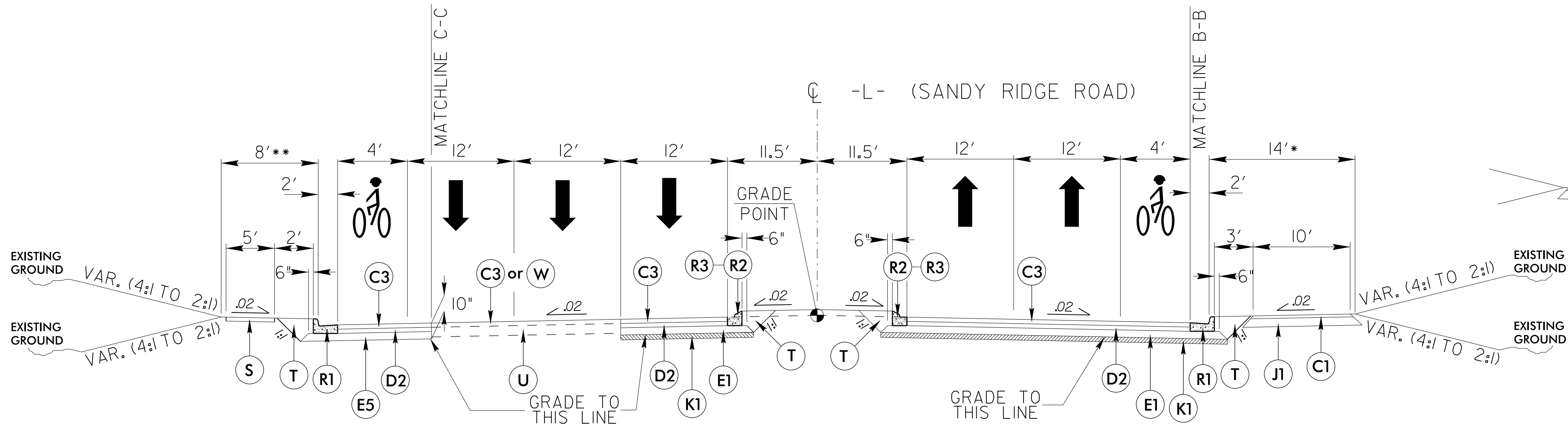
DETAIL #7

-L- STA. 232+68.00 TO -L- STA. 236+82.00



INSET #1
USE WITH TYPICAL SECTION 5

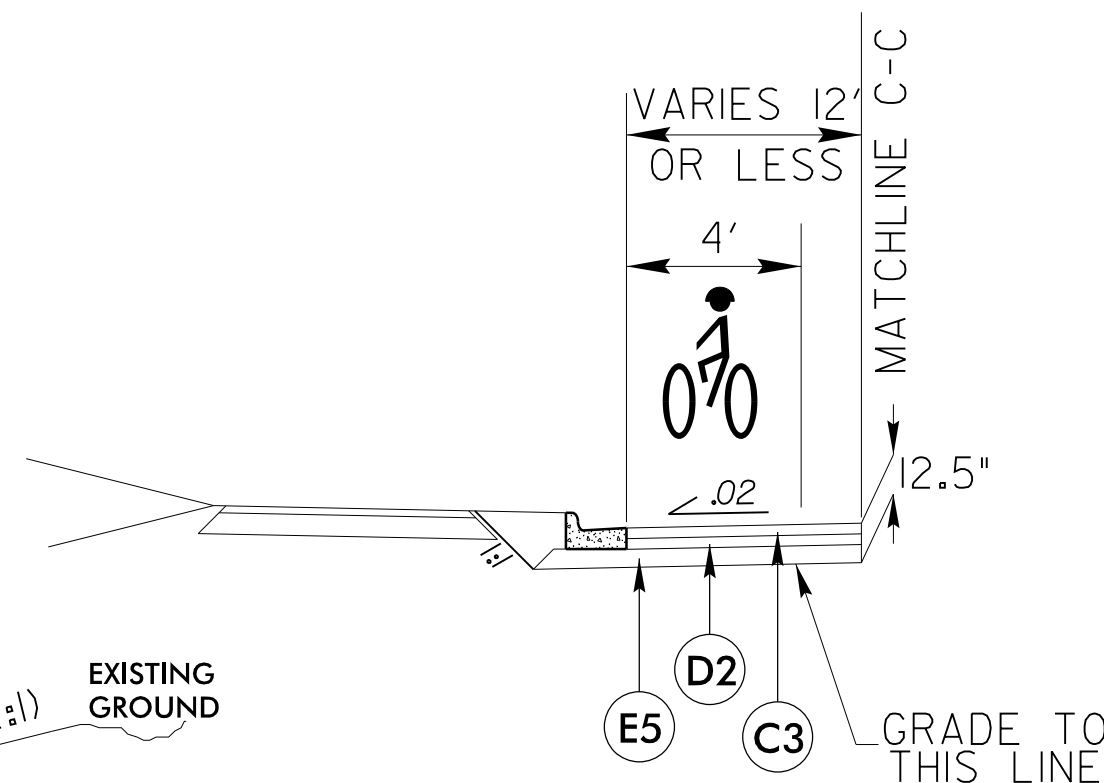
FROM -L- STA. 51+33.92 TO -L- STA. 59+13.32
THE MEDIAN WIDTH VARIES FROM 23' TO 6' AND
THE MEDIAN CURB AND GUTTER CHANGES TO A
MONOLITHIC CONCRETE ISLAND. SEE PLANS FOR
TRANSITION DETAILS.



TYPICAL SECTION 6

-L- STA. 223+83.00 TO -L- STA. 236+82.00

NOTE: * WIDEN BERM 2' FOR GUARDRAIL
** WIDEN BERM 6' FOR GUARDRAIL
SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS
SEE PLANS FOR 1'-6" C&G AND 2'-9" C&G LOCATIONS



DETAIL #19

USE FOR NARROW WIDENING
-L- STA. 234+09.00 TO
-L- STA. 235+04.00

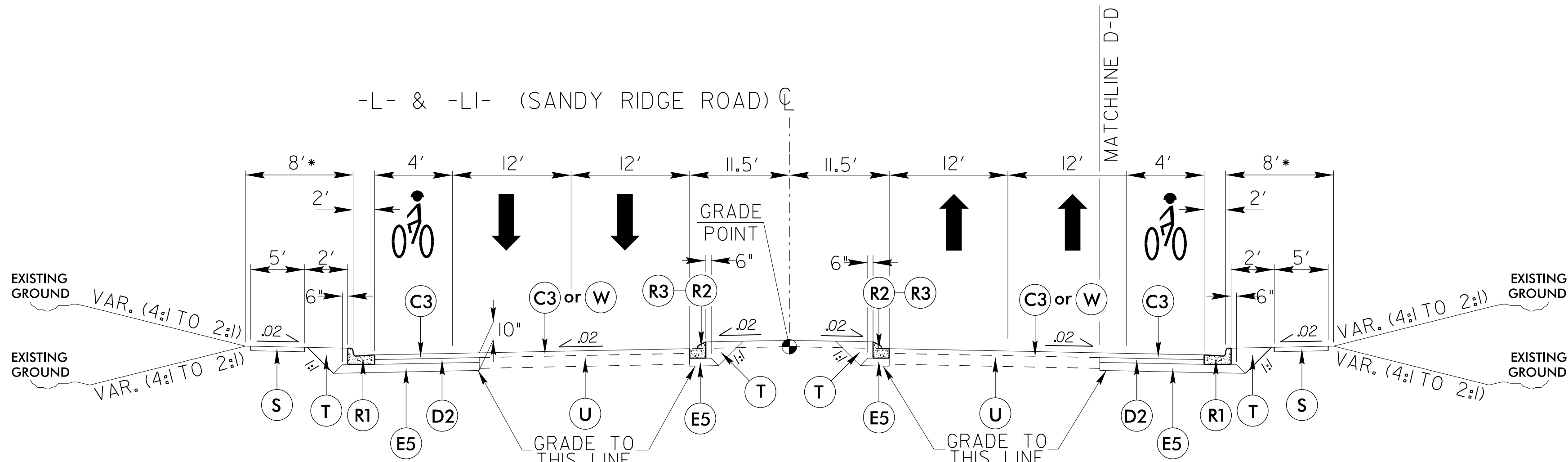
PAVEMENT SCHEDULE

C1	1 1/2" S9.5C
C3	3" S9.5C
D2	4" H9.0C
E1	3" B25.0C
E5	5 1/2" B25.0C
J1	4" ABC
K1	CHEMICAL STABILIZATION
R1	2'-6" C&G
R2	1'-6" C&G
R3	2'-9" C&G
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

8/17/99

REVISIONS

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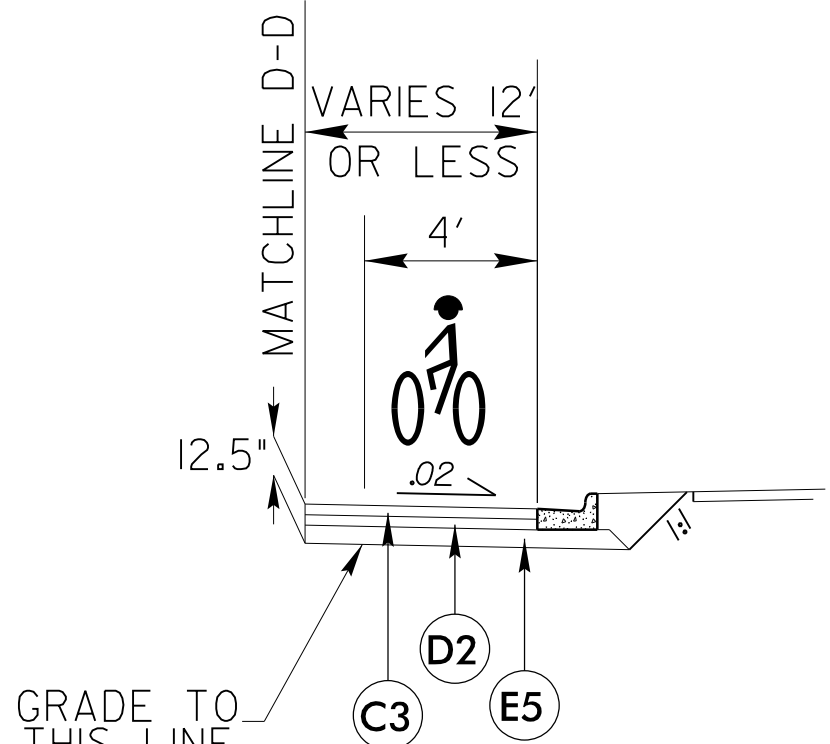


NOTE: * WIDEN BERM 6' FOR GUARDRAIL

SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS
SEE PLANS FOR 1'-6" C&G AND 2'-9" C&G LOCATIONS

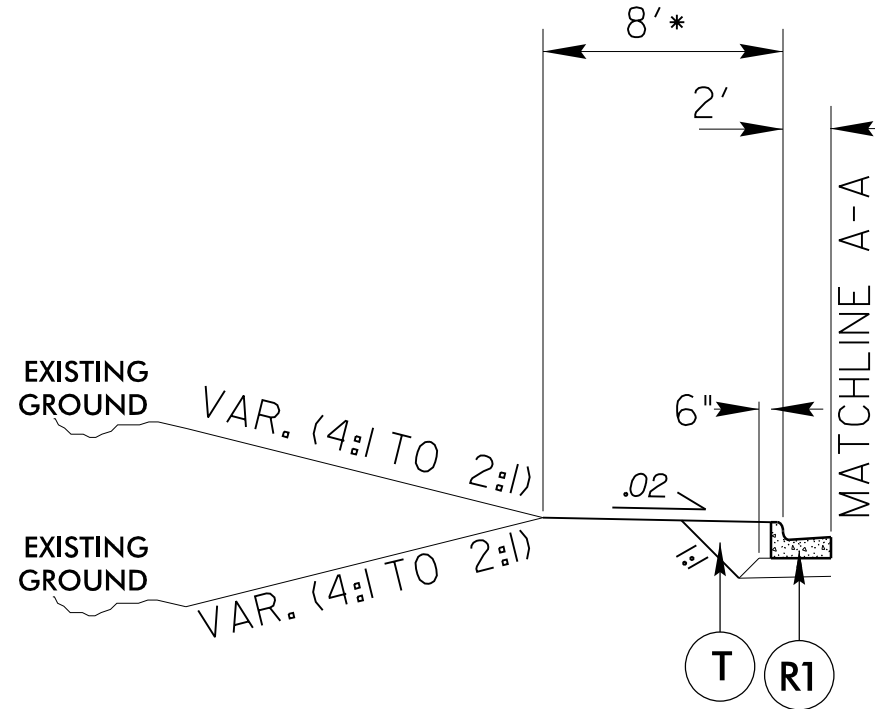
TYPICAL SECTION 7

-L- STA. 236+82.00 TO -L- STA. 238+71.37
-LI- STA. 10+60.00 TO -LI- STA. 18+75.00



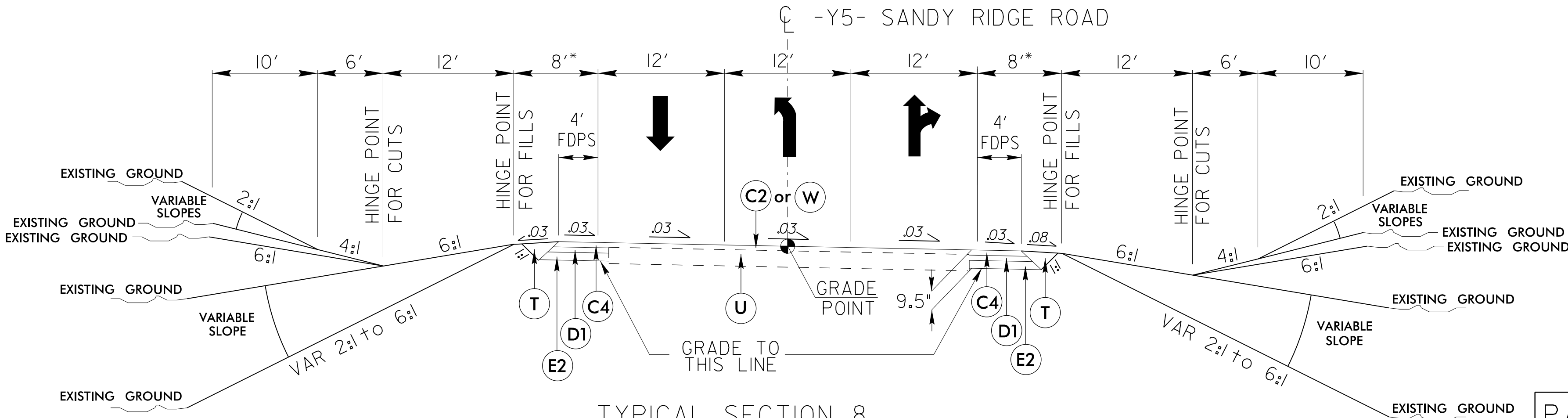
DETAIL #20

USE FOR NARROW WIDENING
-LI- STA. 16+56.00 TO -LI- STA. 17+88.00



DETAIL #10

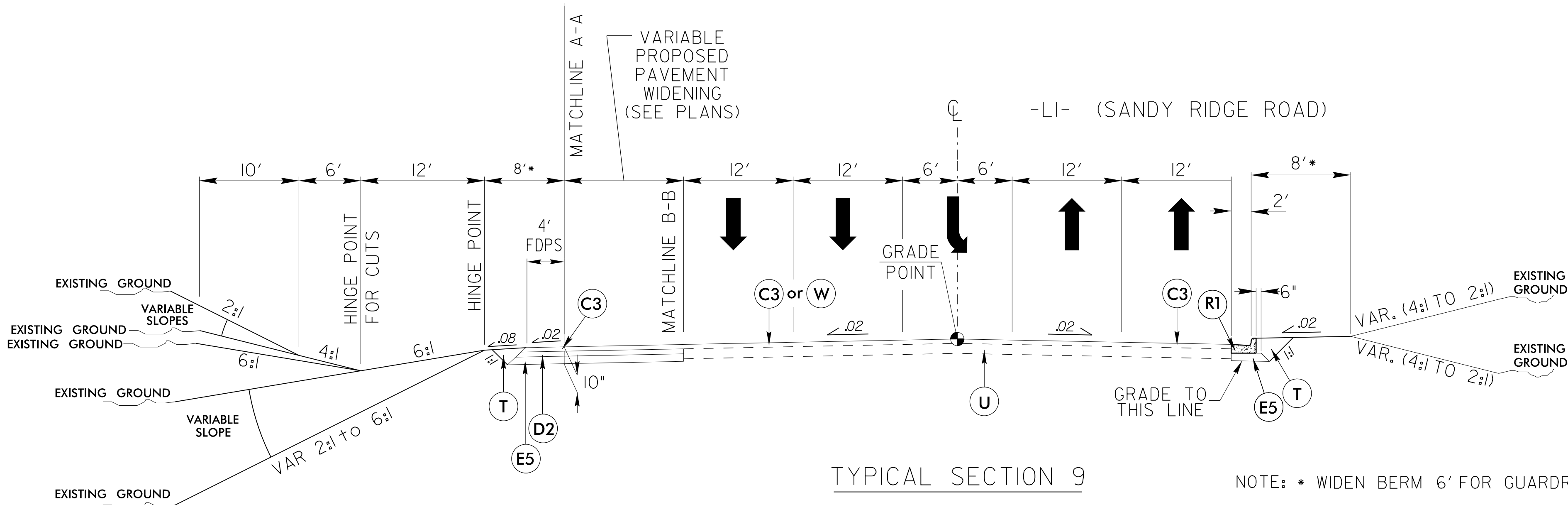
-LI- STA. 18+75.00 TO -LI- STA. 19+07.56



TYPICAL SECTION 8

-Y5- STA. 17+80.00 TO -Y5- STA. 19+18.80

NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

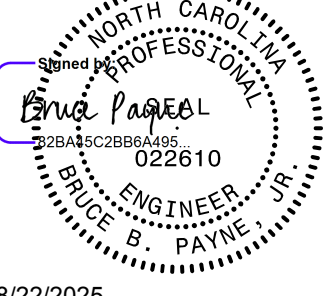
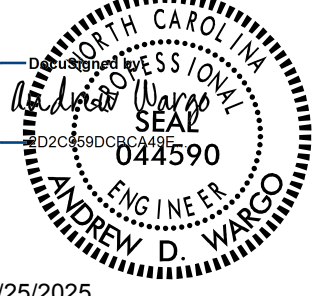


TYPICAL SECTION 9

-LI- STA. 18+75.00 TO -LI- STA. 21+18.29

NOTE: * WIDEN BERM 6' FOR GUARDRAIL

SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS
SEE PLANS FOR VARIABLE SHOULDER WIDTH

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2A-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	
8/22/2025	8/25/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

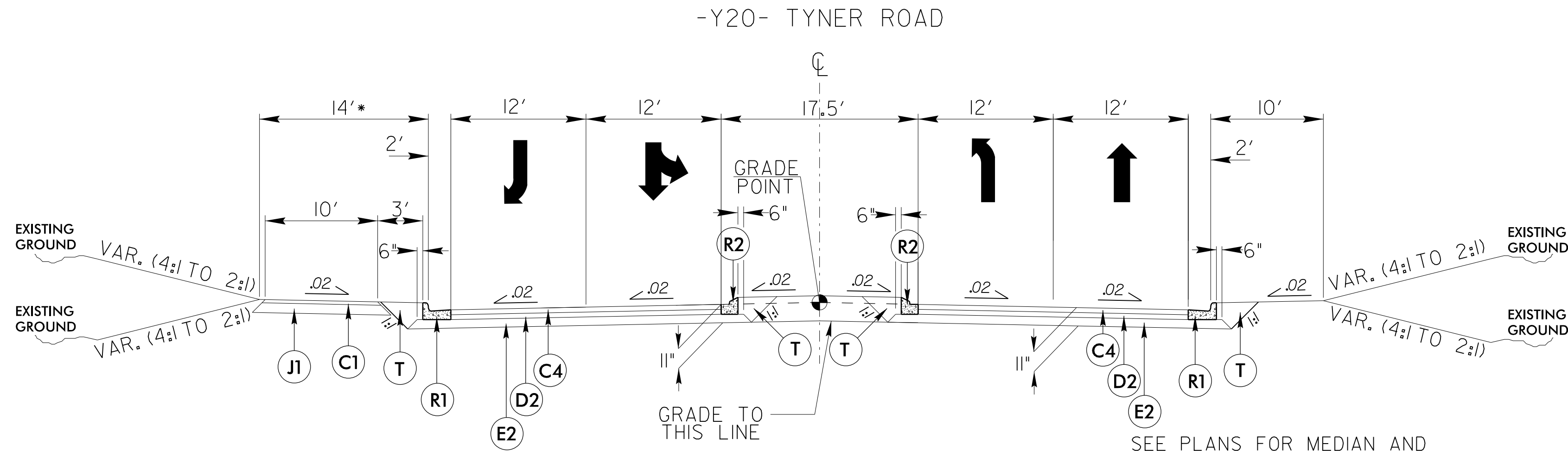
AtkinsRéalis 1616 EAST WILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

PAVEMENT SCHEDULE	
C2	1 1/2" S9.5C
C3	3" S9.5C
C4	3" S9.5B
D1	2 1/2" 119.0C
D2	4" 119.0C
E2	4" B25.0C
E5	5 1/2" B25.0C
K1	CHEMICAL STABILIZATION
R1	2'-6" C&G
R2	1'-6" C&G
R3	2'-9" C&G
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

8/17/99

REVISIONS

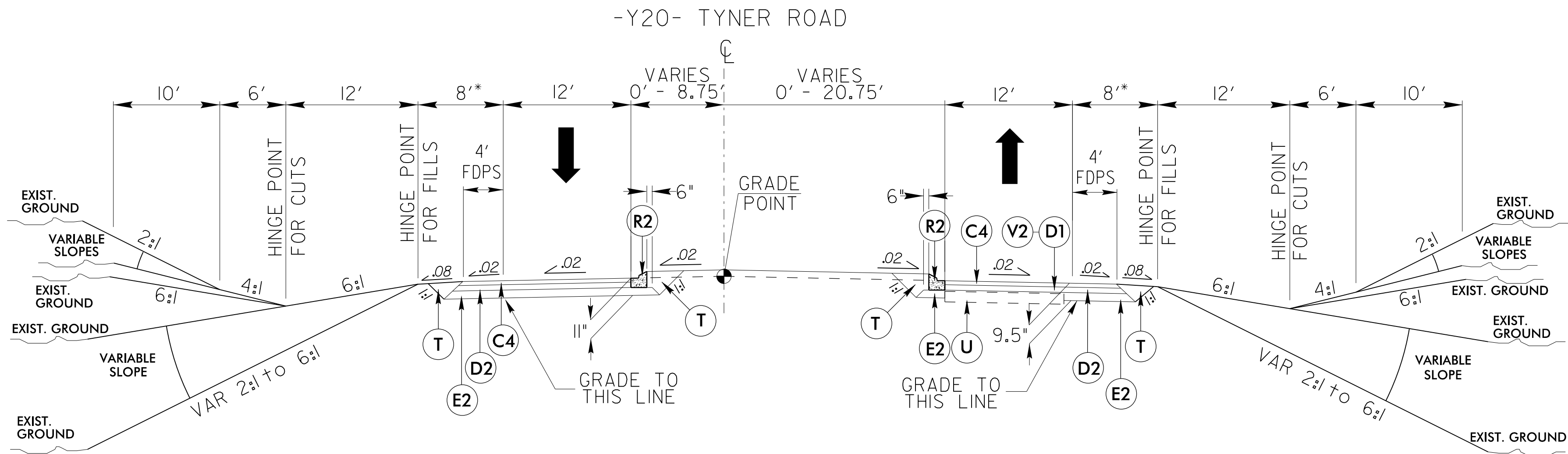
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TYPICAL SECTION 10
-Y20- STA. 10+51.62 TO -Y20- STA. 18+94.00

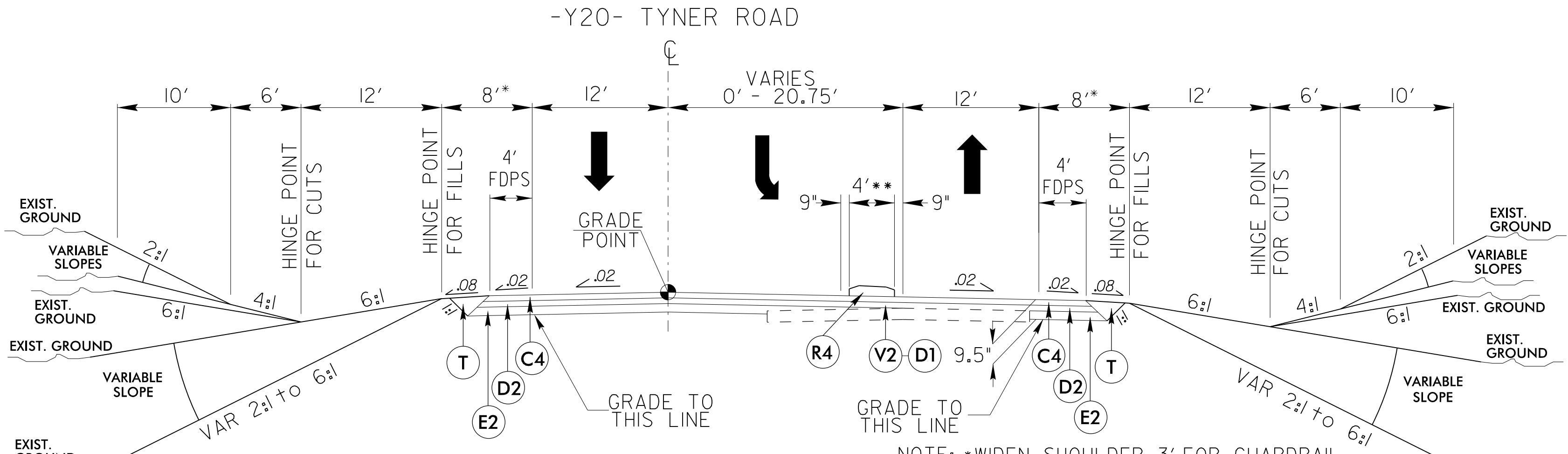
SEE PLANS FOR MEDIAN AND
LEFT TURN DETAILS AT INTERSECTIONS

NOTE: *WIDEN BERM 2' FOR GUARDRAIL
**MONOLITHIC ISLAND WIDTH VARIES 4'-10'
AND TRANSITIONS FROM MONOLITHIC ISLAND
TO CURB AND GUTTER. SEE PLAN VIEW
FOR DETAILS.



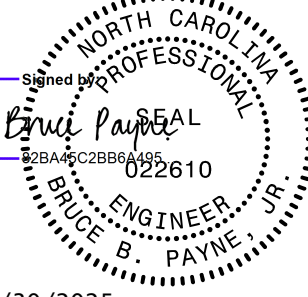
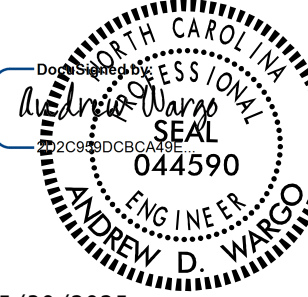
TYPICAL SECTION II
-Y20- STA. 18+94.00 TO -Y20- STA. 22+20.00

NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL



TYPICAL SECTION 12
-Y20- STA. 22+20.00 TO -Y20- STA. 32+00.00

NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL
**MONOLITHIC ISLAND WIDTH VARIES 4'-10'
SEE PLAN VIEW FOR DETAILS

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2A-6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	
5/30/2025	5/30/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

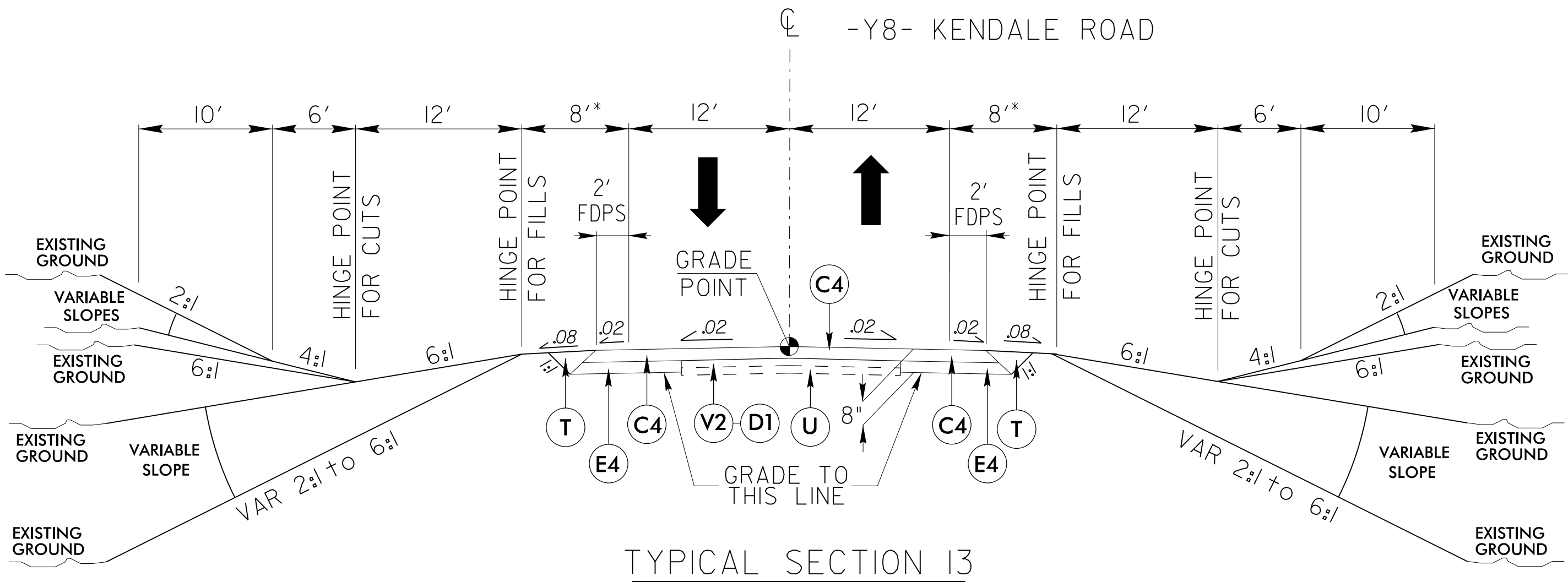
AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

PAVEMENT SCHEDULE	
C1	1 1/2" S9.5B
C4	3" S9.5B
D1	2 1/2" I19.0C
D2	4" I19.0C
E2	4" B25.0C
J1	PROP. 4" AGGREGATE BASE COURSE
R1	2'-6" CONCRETE CURB AND GUTTER
R2	1'-6" CONCRETE CURB AND GUTTER
R4	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V2	2.5" MILLING

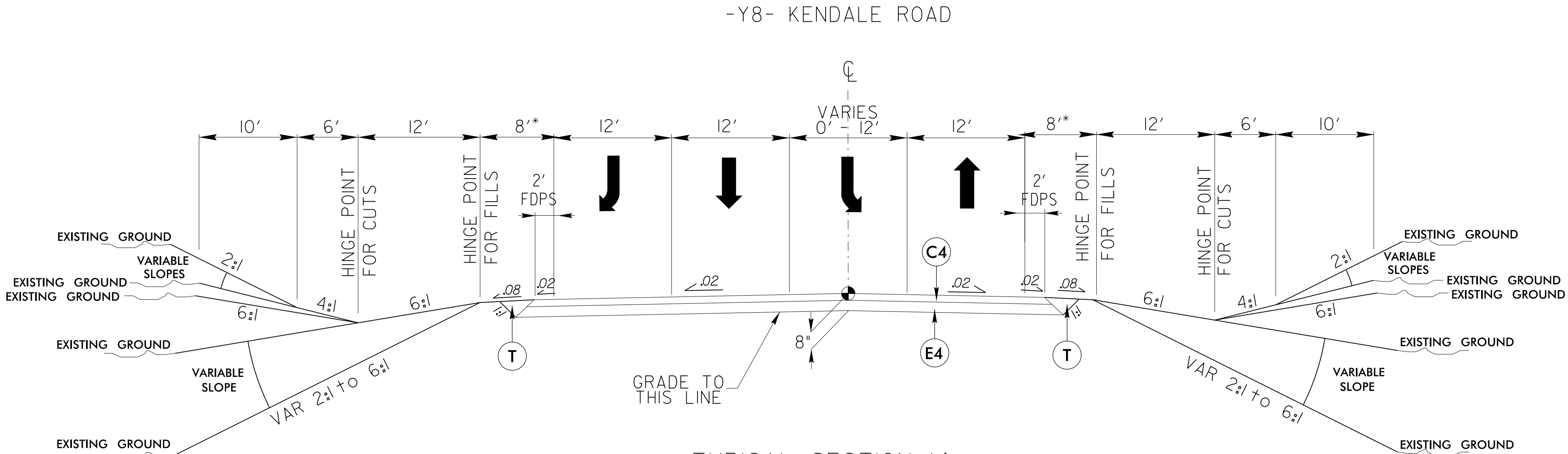
8/17/99

REVISIONS

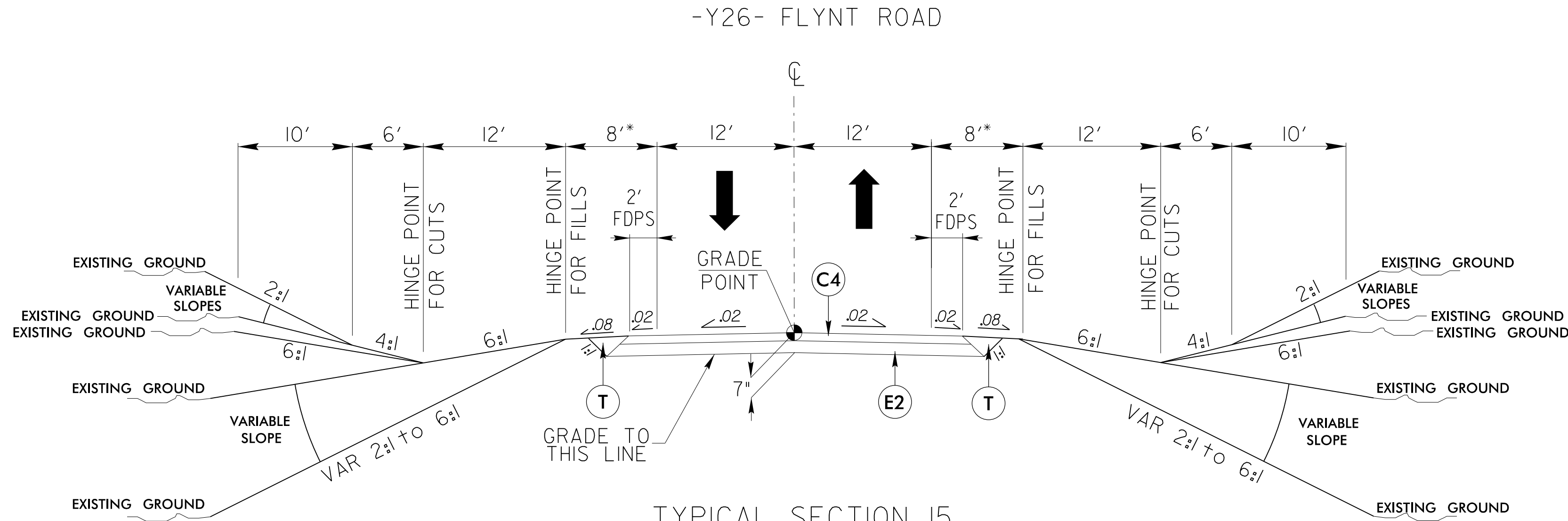
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-Y8- STA. 15+21.88 TO -Y8- STA. 23+30.00
NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

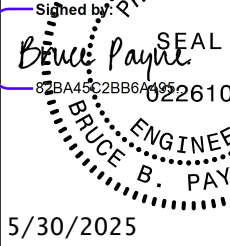
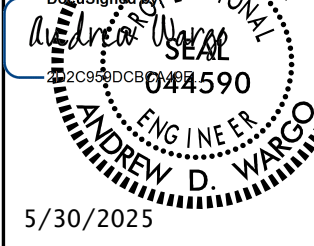


-Y8- STA. 10+39.50 TO -Y8- STA. 15+21.88
NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL



-Y26- STA. 10+12.00 TO -Y26- STA. 11+71.15
NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

PAVEMENT SCHEDULE	
C4	3" S9.5B
D1	2½" I19.0C
E2	4" B25.0C
E4	5" B25.0C
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V2	2.5" MILLING

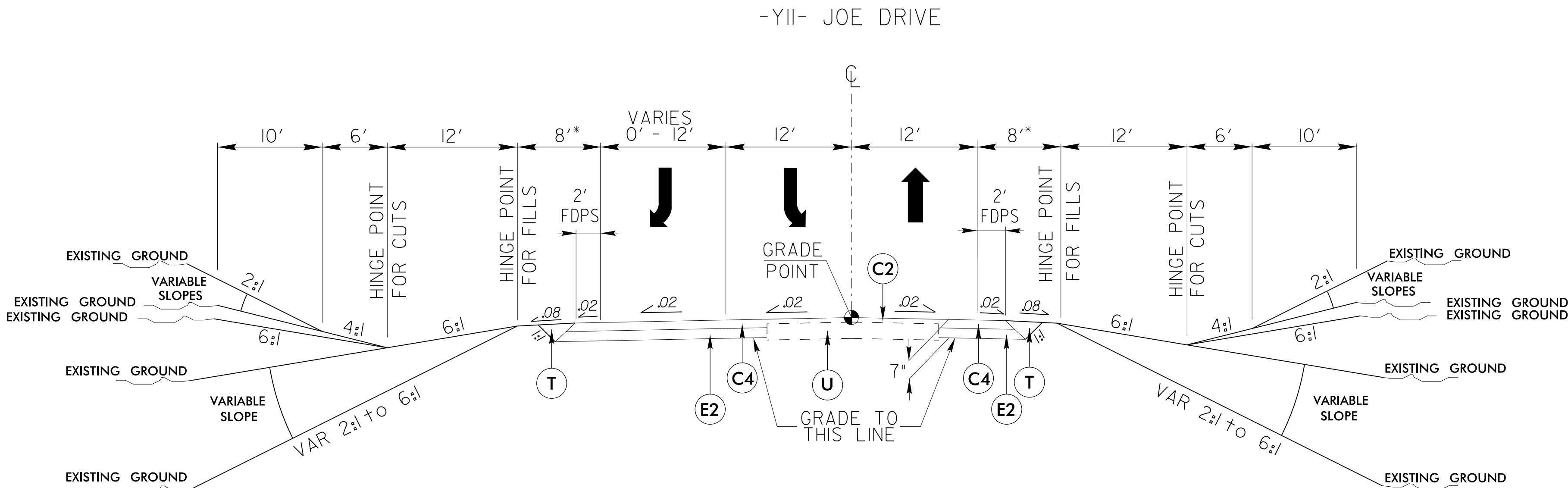
PROJECT REFERENCE NO.		SHEET NO.	
U-4758		2A-7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

8/17/99

REVISIONS

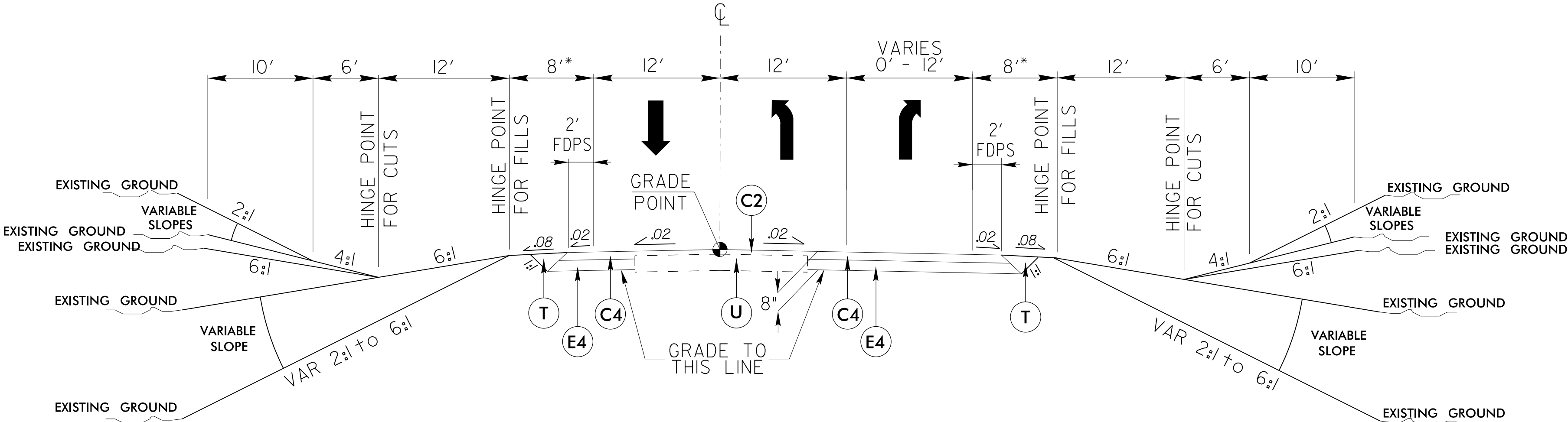
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NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

-YII- STA. 10+39.57 TO -YII- STA. 16+00.00

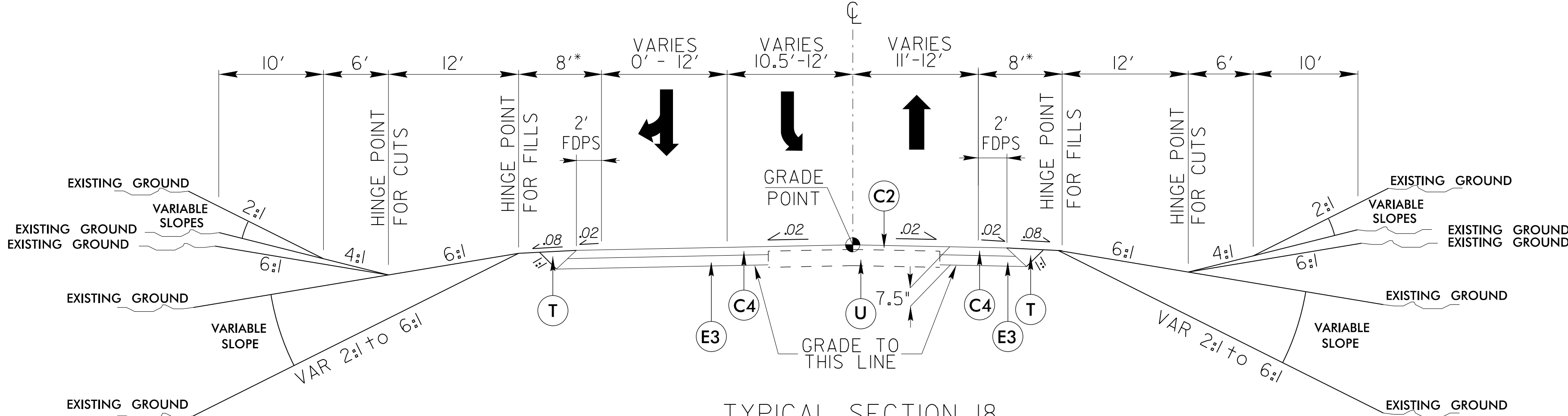
-YI3- CLINARD FARM ROAD



NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

-YI3- STA. 10+55.00 TO -YI3- STA. 16+00.95

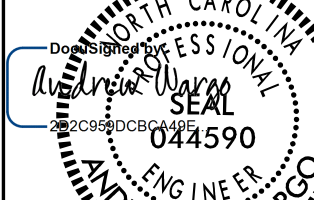
-YI5- GALLIMORE DAIRY ROAD



-YI5- STA. 10+53.33 TO -YI5- STA. 14+50.00

NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

PAVEMENT SCHEDULE	
C2	1½" S9.5B
C4	3" S9.5B
E2	4" B25.0C
E3	4½" B25.0C
E4	5" B25.0C
T	EARTH MATERIAL
U	EXISTING PAVEMENT

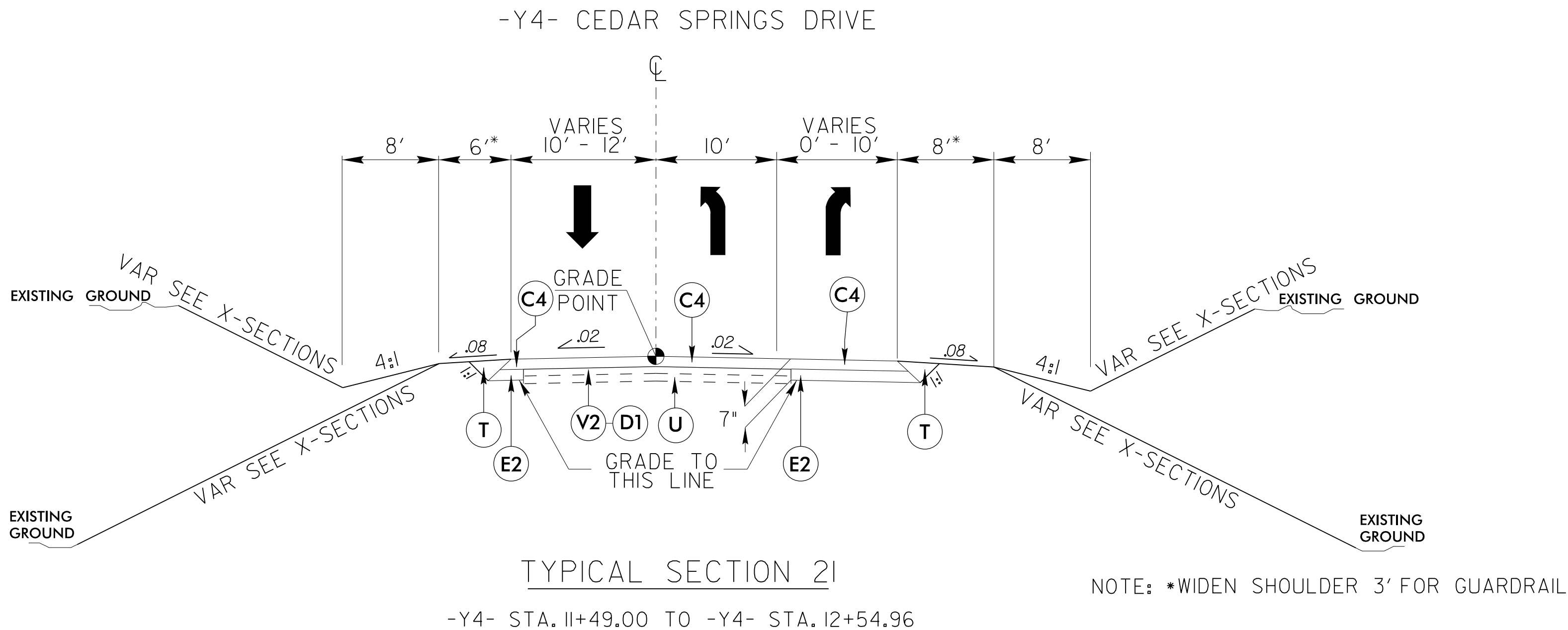
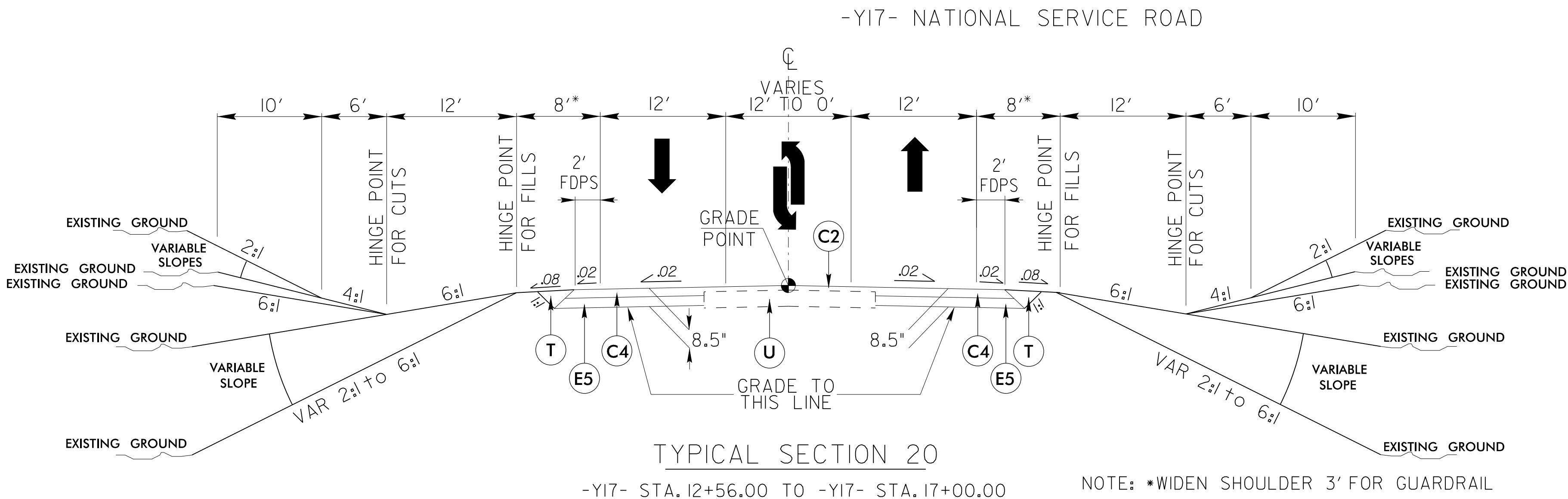
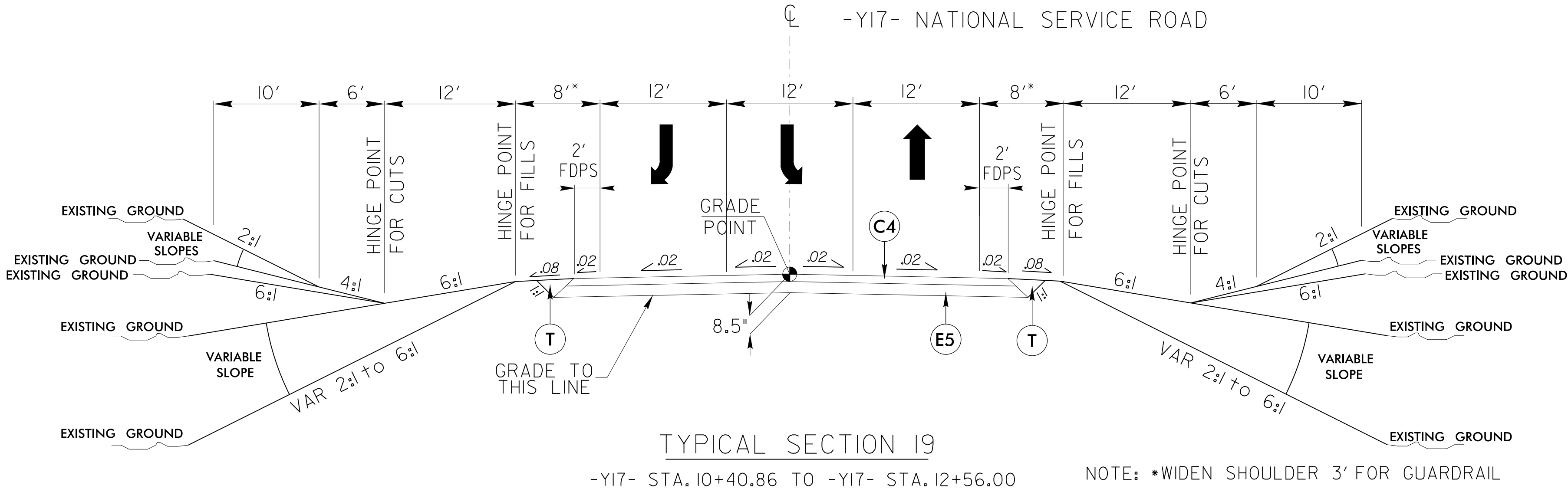
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U-4758		2A-8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

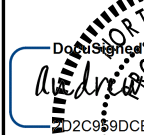
8/17/99

REVISIONS

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\$\$\$\$\$SUBSTANTIAL\$\$\$\$\$



PAVEMENT SCHEDULE	
C2	1 1/2" S9.5B
C4	3" S9.5B
D1	2 1/2" 119.0C
E2	4" B25.0C
E5	5 1/2" B25.0C
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V2	2.5" MILLING

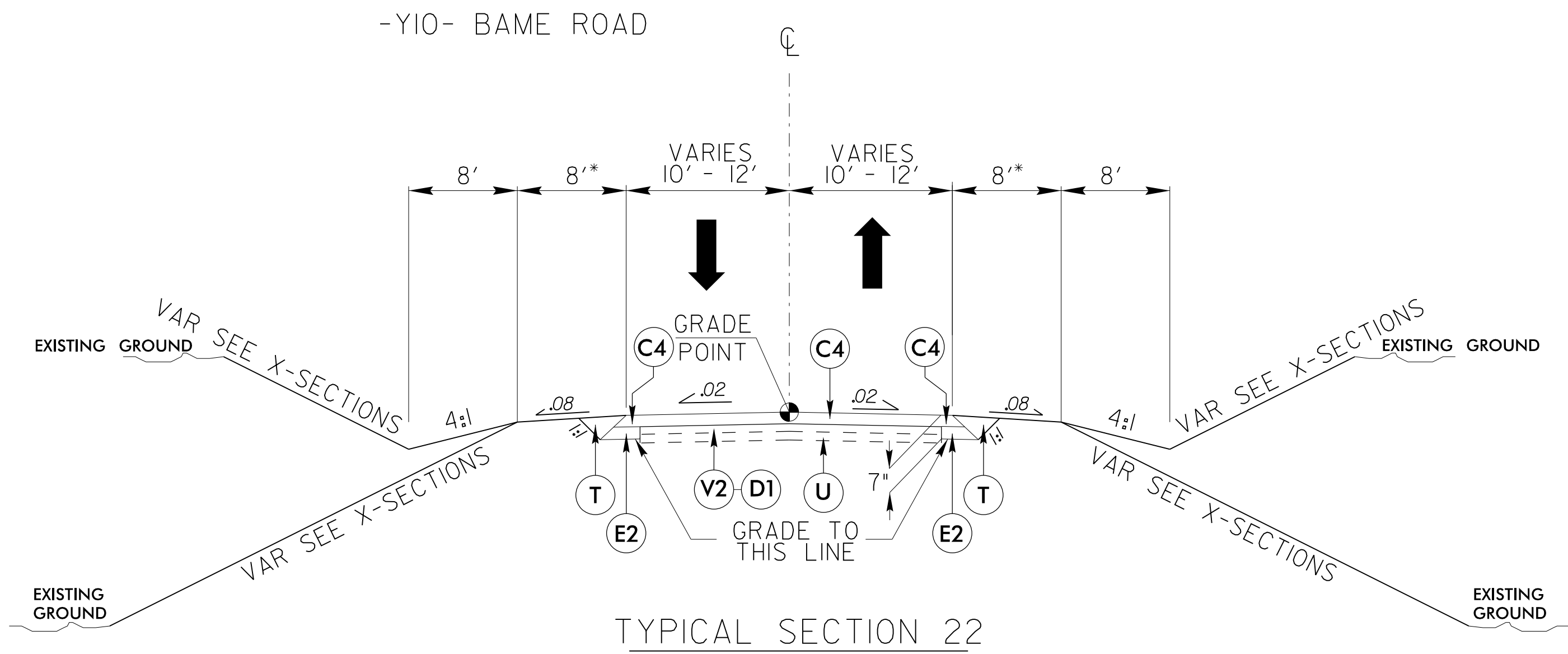
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U-4758		2A-9	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

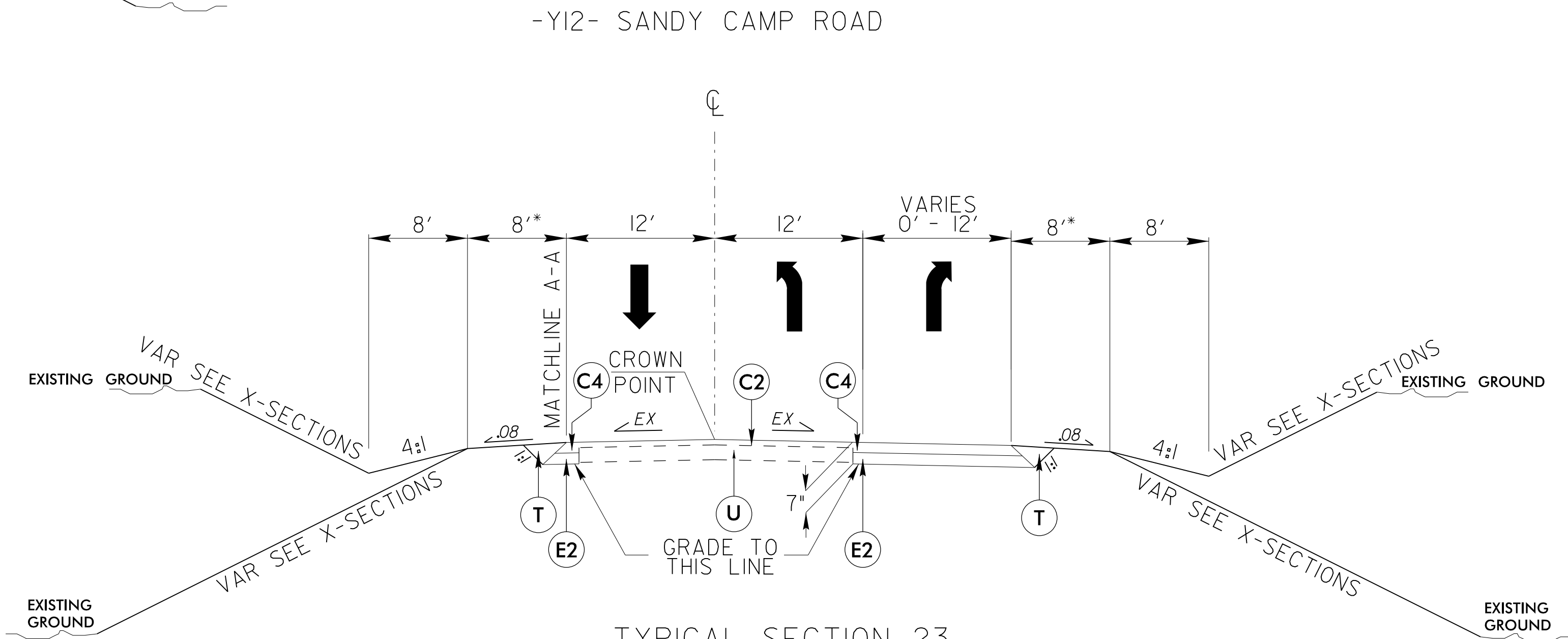
8/17/99

REVISIONS

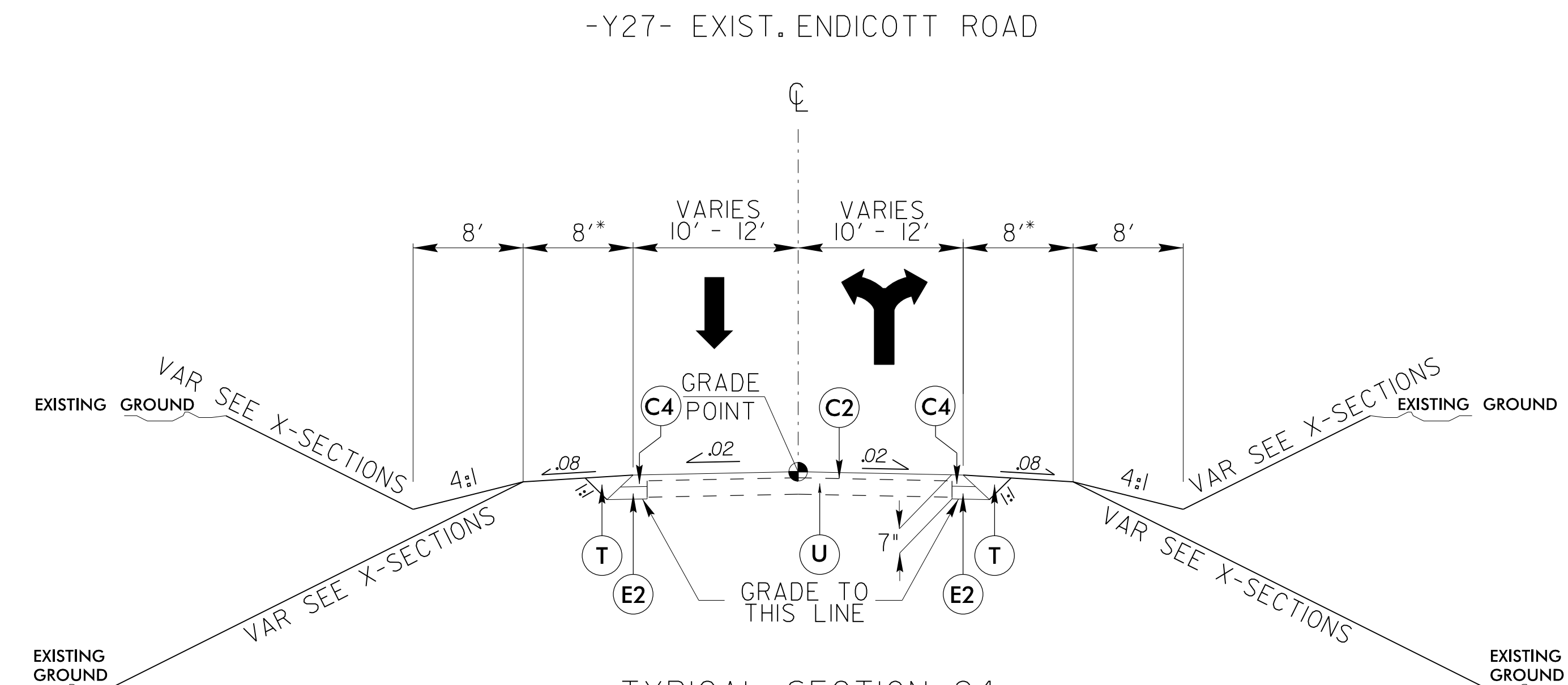
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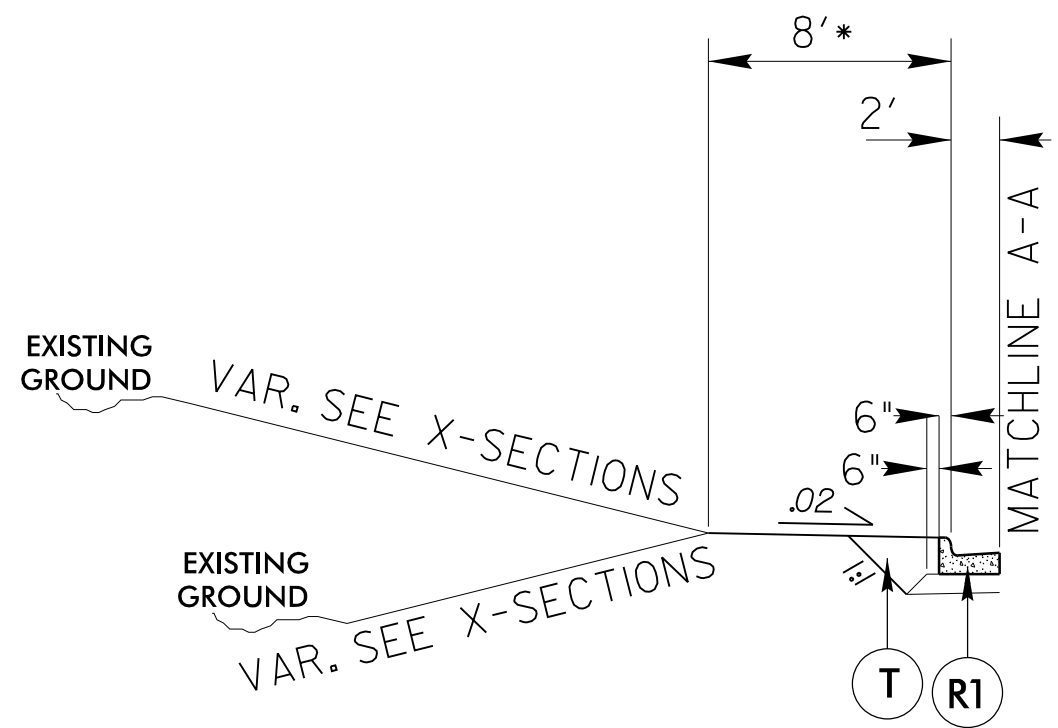
NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL



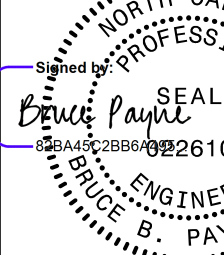
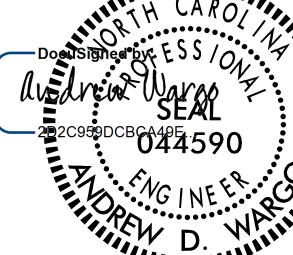
NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL



NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL



PAVEMENT SCHEDULE	
C2	1 1/2" S9.5B
C4	3" S9.5B
D1	2 1/2" II9.0C
E2	4" B25.0C
R1	2'-6" C&G
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V2	2.5" MILLING

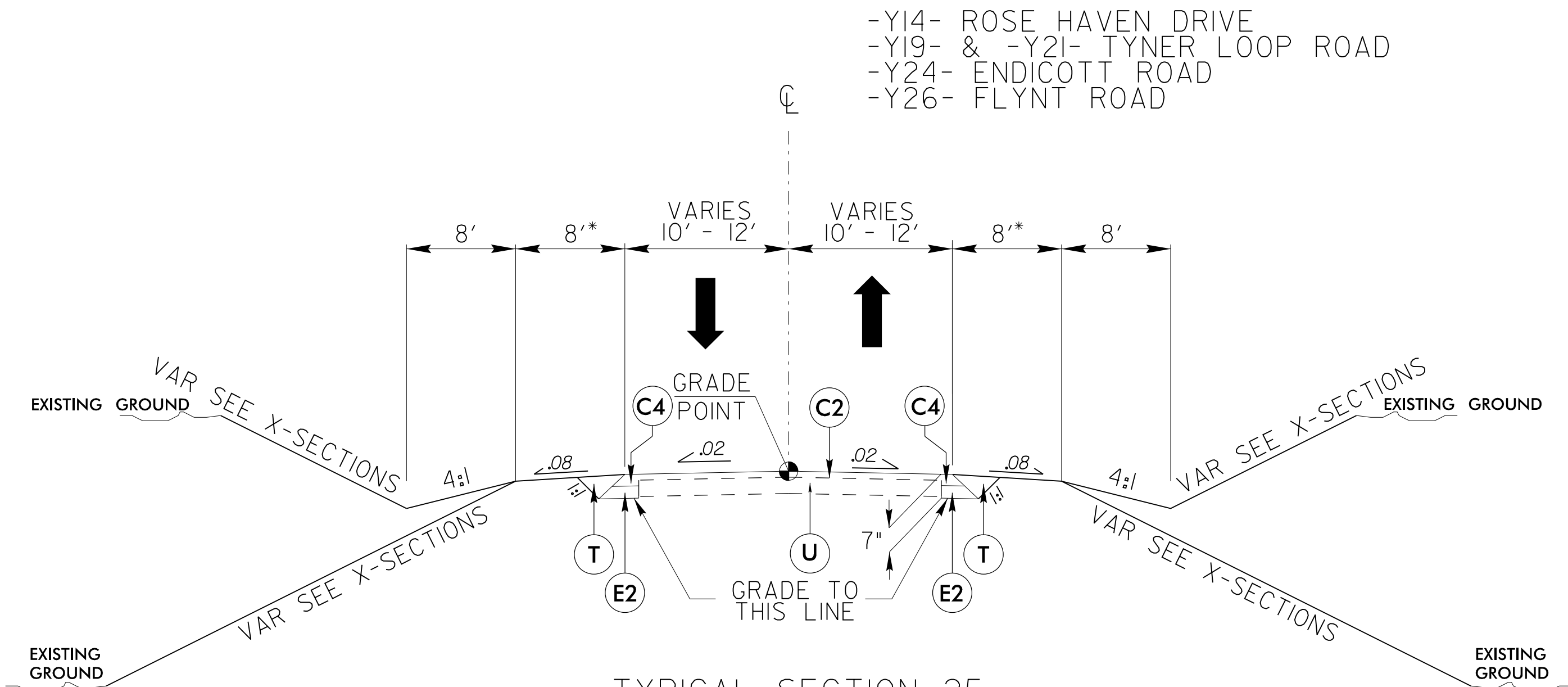
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U-4758		2A-10
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

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REVISIONS

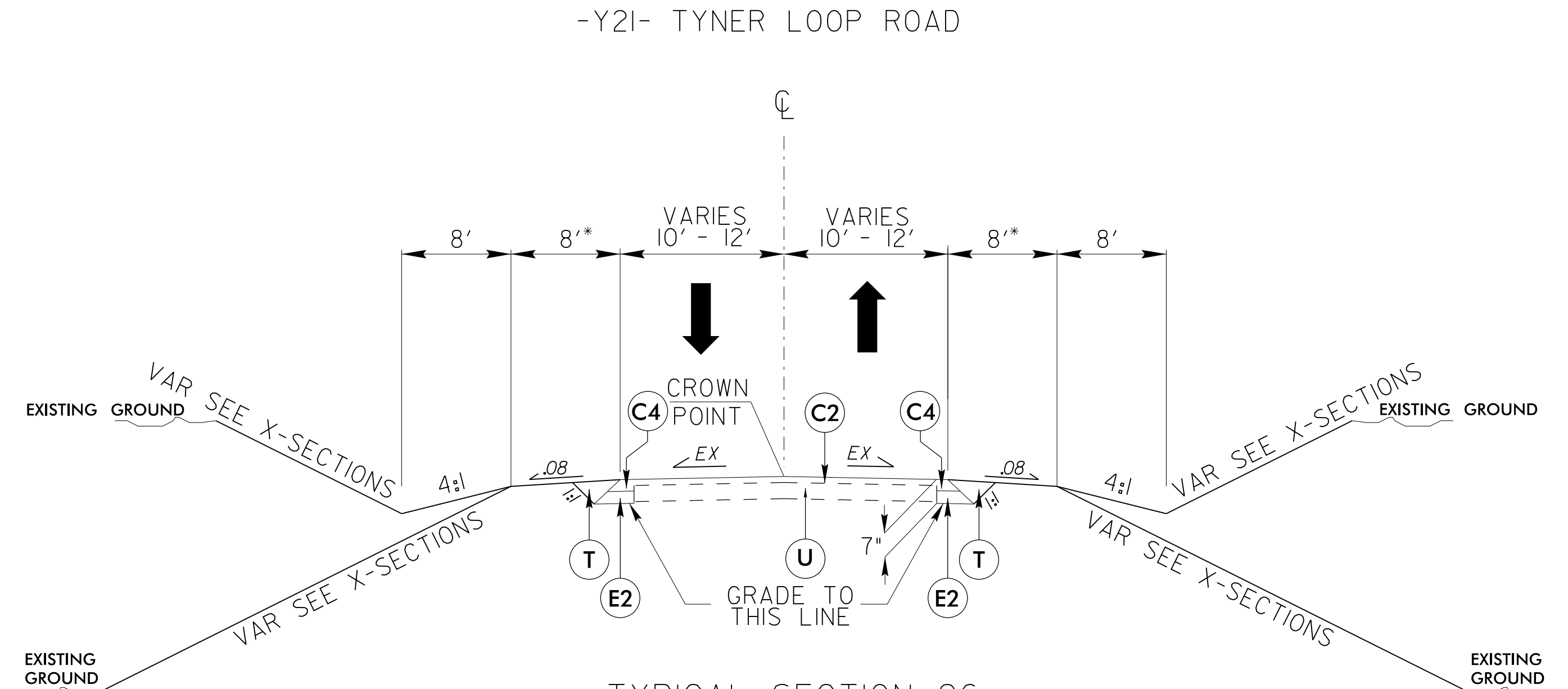
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TYPICAL SECTION 25

-Y14- STA. 10+00.00 TO -Y14- STA. 11+98.22
-Y19- STA. 12+00.00 TO -Y19- STA. 12+62.97
-Y21- STA. 12+47.50 TO -Y21- STA. 12+58.40
-Y24- STA. 10+00.00 TO -Y24- STA. 12+25.00
-Y26- STA. 11+71.15 TO -Y26- STA. 14+70.00

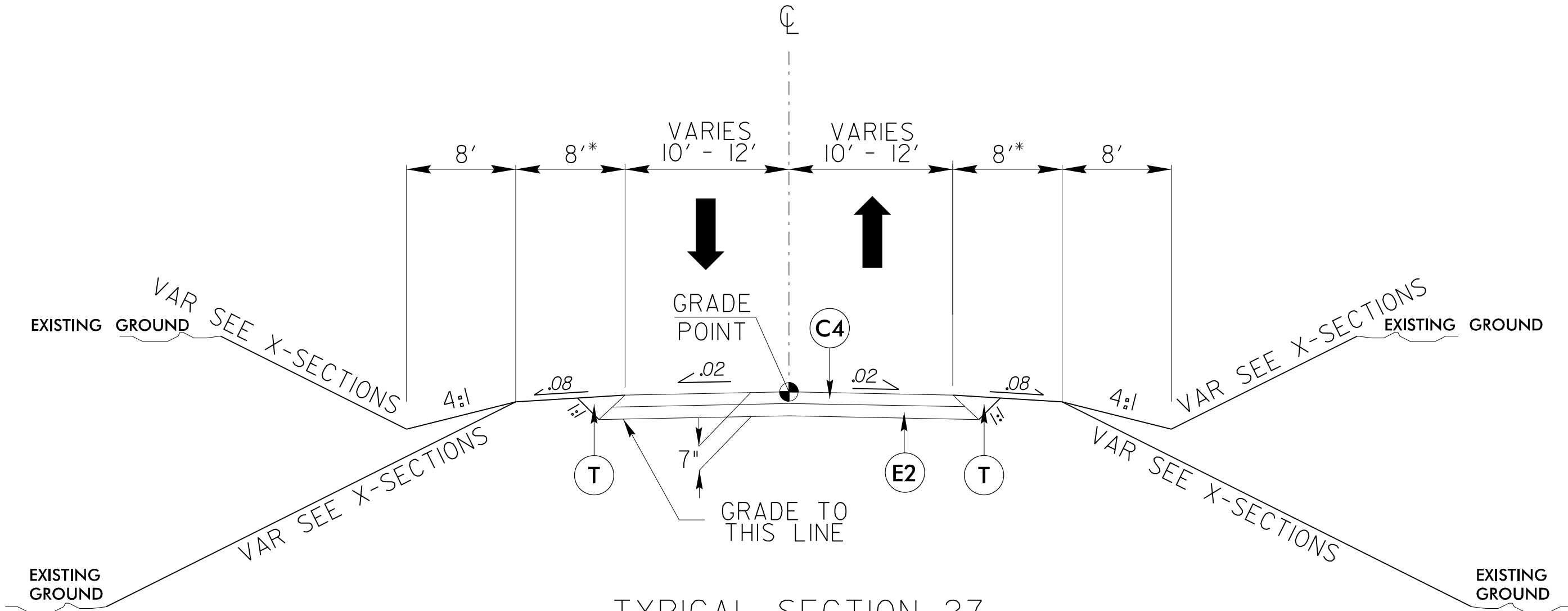
NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL



TYPICAL SECTION 26

-Y21- STA. 11+80.00 TO -Y21- STA. 12+47.50

NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

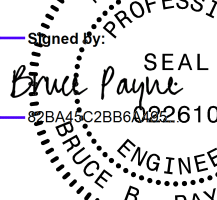
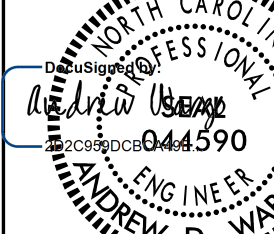


TYPICAL SECTION 27

-Y24- STA. 12+25.00 TO -Y24- STA. 12+76.30

NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

PAVEMENT SCHEDULE	
C2	1 1/2" S9.5B
C4	3" S9.5B
E2	4" B25.0C
T	EARTH MATERIAL
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.		SHEET NO.	
U-4758		2A-11	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
			
5/30/2025		5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

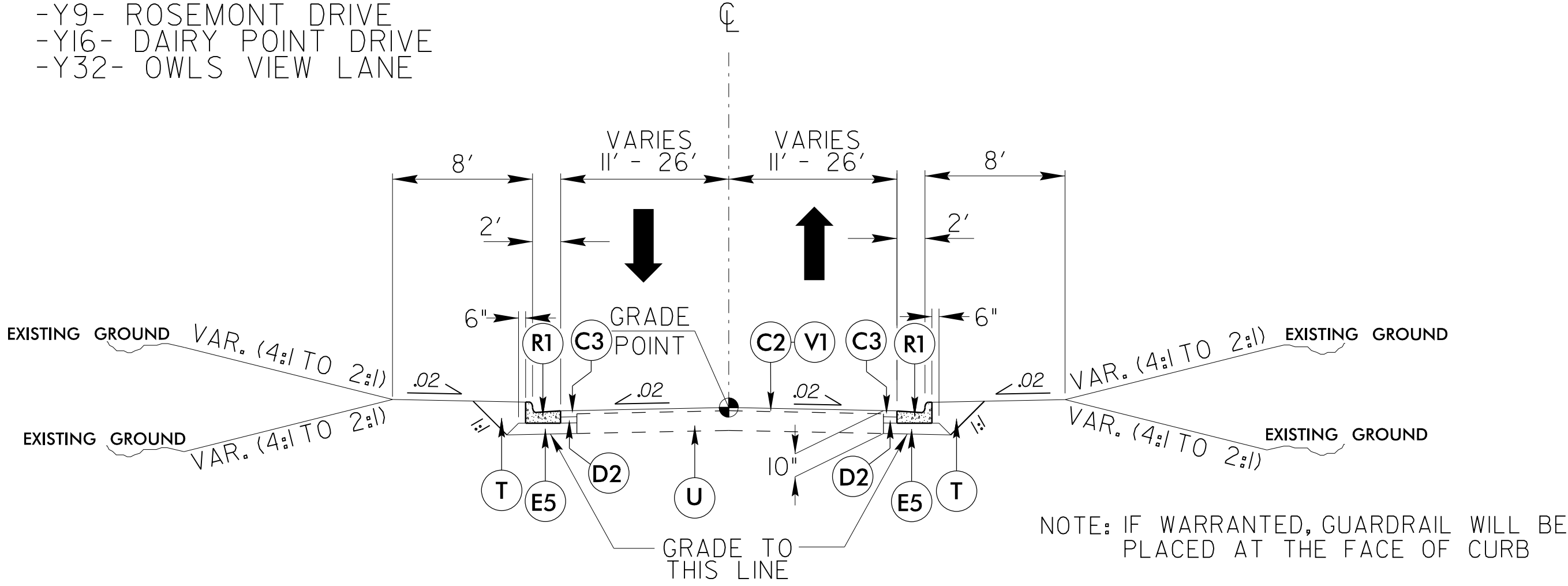
AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

8/17/99

REVISIONS

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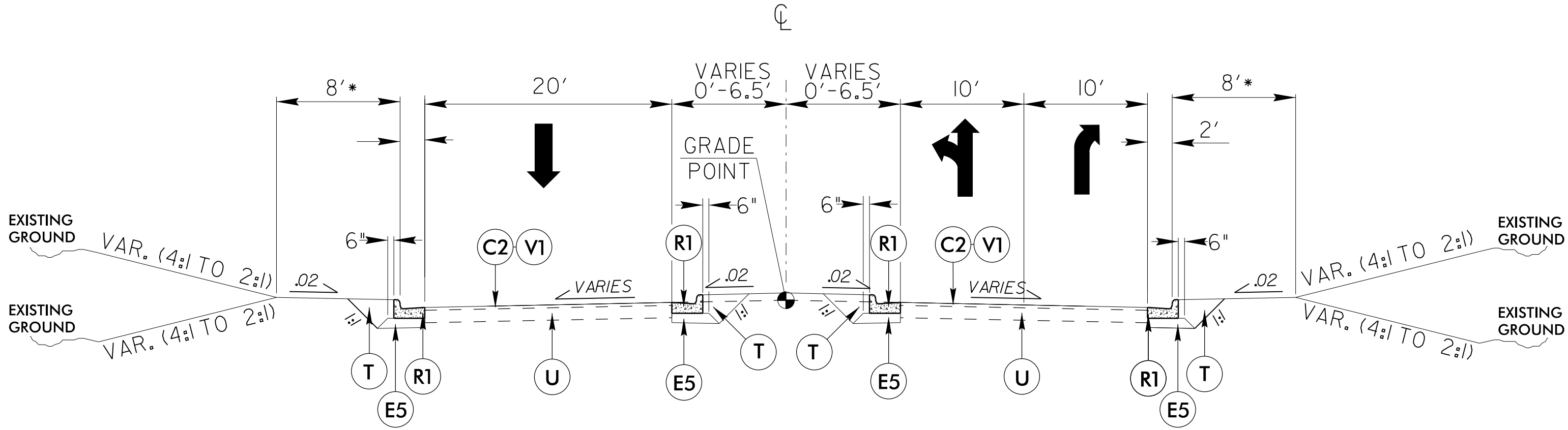
- Y2- POND HAVEN DRIVE
- Y9- ROSEMONT DRIVE
- Y16- DAIRY POINT DRIVE
- Y32- OWLS VIEW LANE



TYPICAL SECTION 28

-Y2- STA. 12+36.00 TO -Y2- STA. 13+41.86
-Y9- STA. 13+60.00 TO -Y9- STA. 14+75.10
-Y16- STA. 10+39.51 TO -Y16- STA. 10+97.00
-Y32- STA. 10+39.50 TO -Y32- STA. 10+80.00

-Y7- WESTMOTT PLACE

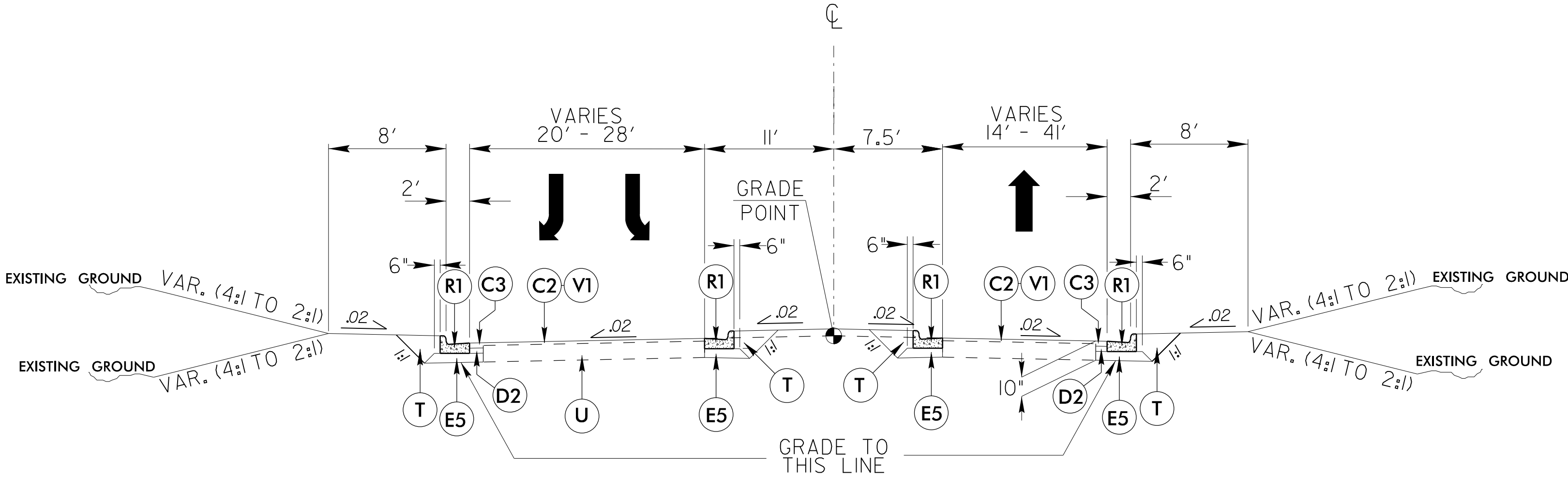


TYPICAL SECTION 29

-Y7- STA. 12+00.00 TO -Y7- STA. 12+81.32

NOTE: * WIDEN BERM 6' FOR GUARDRAIL

-Y3- JOHNSON STREET SPORTS COMPLEX



TYPICAL SECTION 30

-Y3- STA. 10+62.50 TO -Y3- STA. 11+30.00

PAVEMENT SCHEDULE	
C2	1 1/2" S9.5B
C3	3" S9.5C
D2	4" 119.0C
E5	5 1/2" B25.0C
R1	2'-6" C&G
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	1.5" MILLING

PROJECT REFERENCE NO.
U-4758

SHEET NO.
2A-12

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGINEER

BRUCE B. PAYNE
ENGINEER
5/30/2025

ANDREW D. VARCO
ENGINEER
5/30/2025

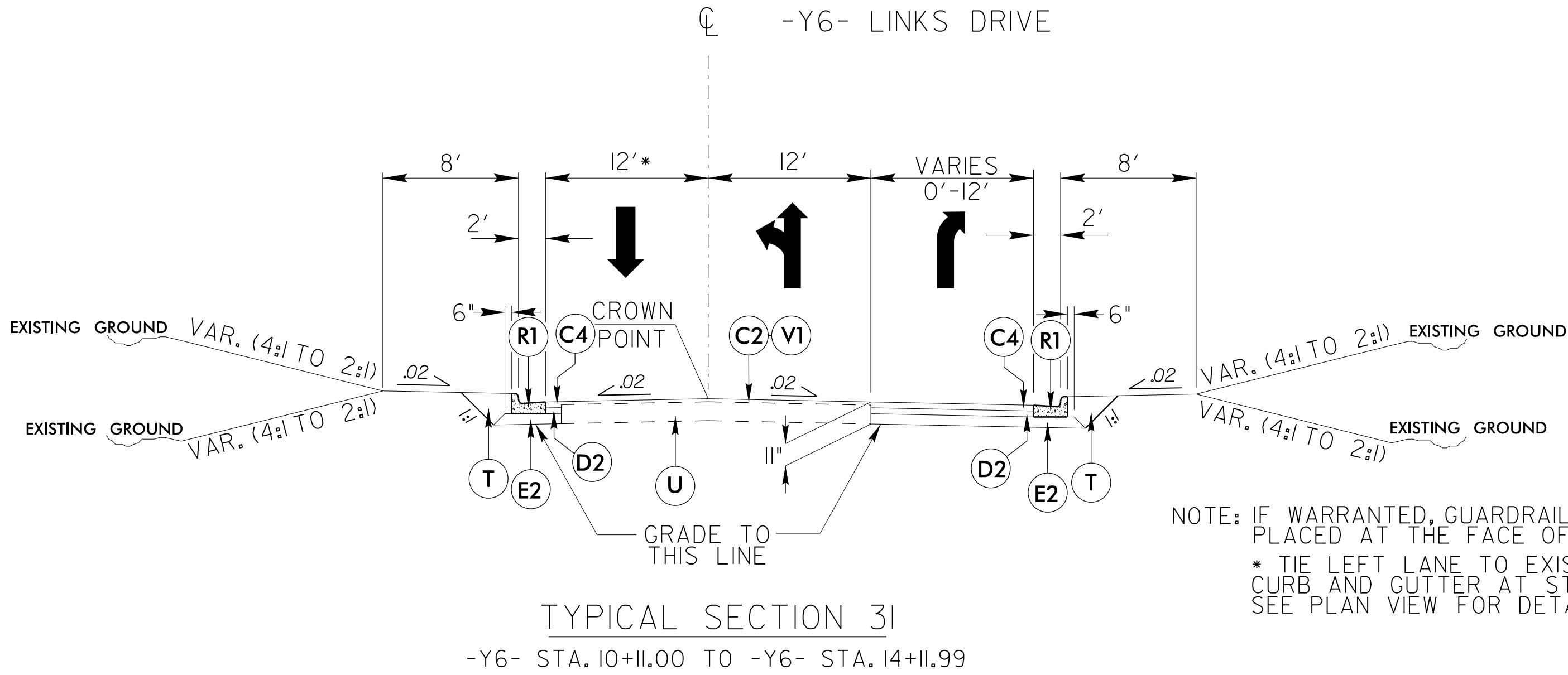
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UNLESS ALL SIGNATURES COMPLETED

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

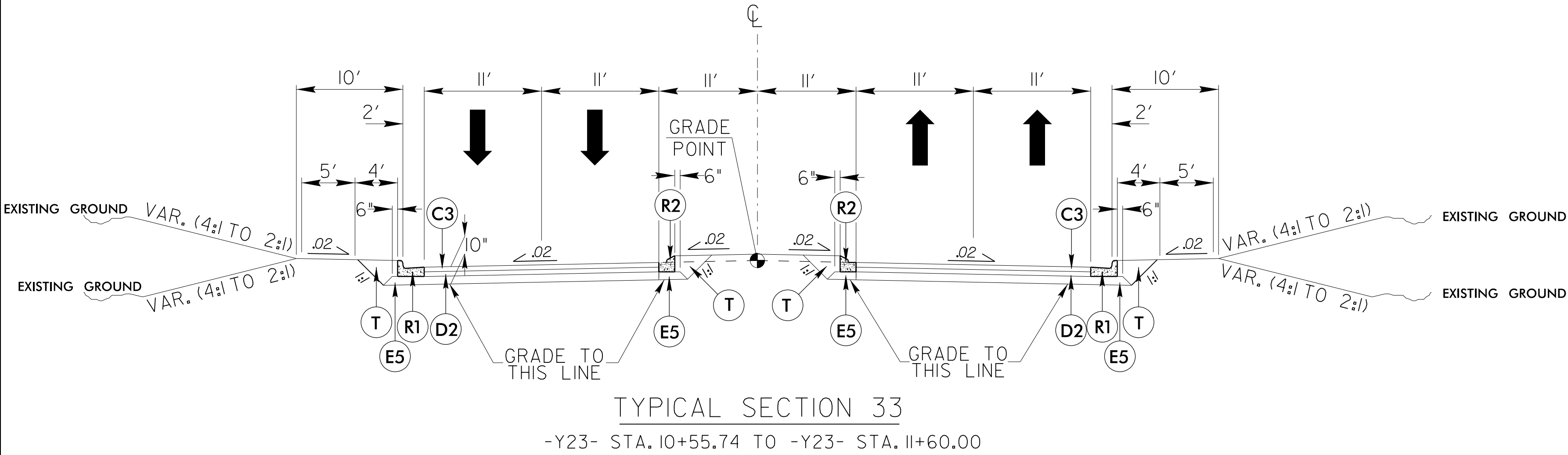
8/17/99

REVISIONS

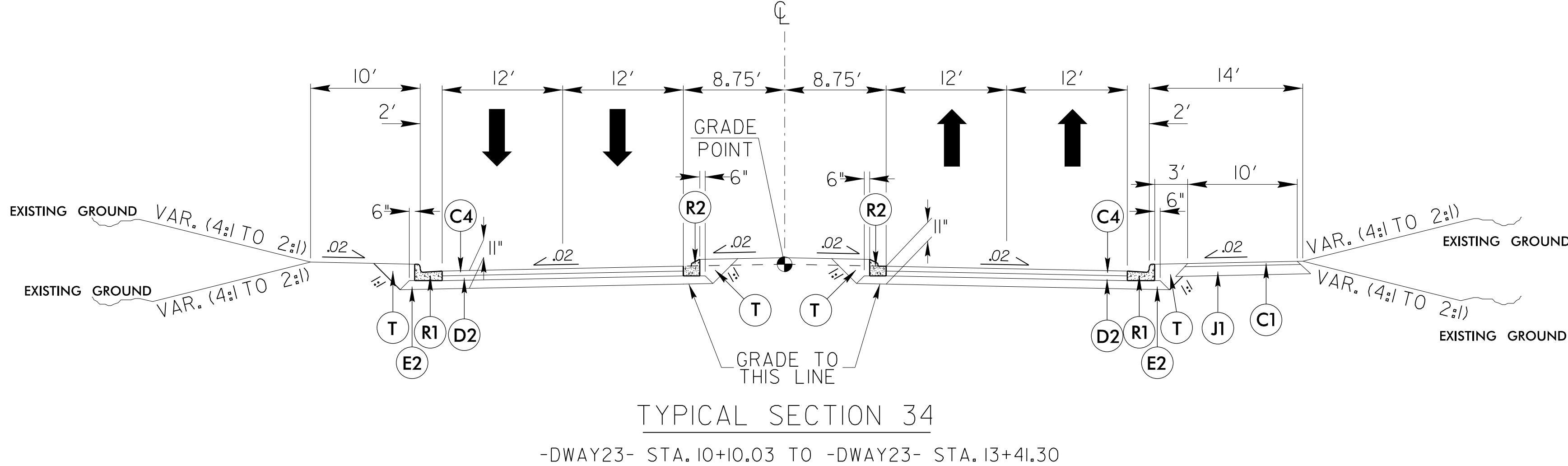
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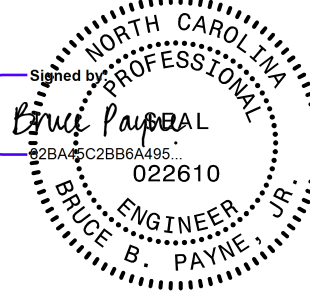
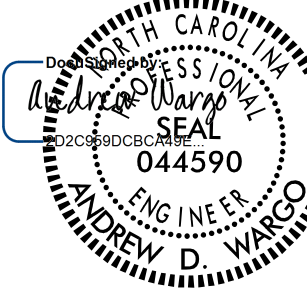


-Y23- (FARMER'S MARKET ROAD)



-DWAY23- (RELOCATED FARMER'S MARKET ENTRANCE)



PROJECT REFERENCE NO.		SHEET NO.	
U-4758		2A-13	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
			
8/22/2025		8/25/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

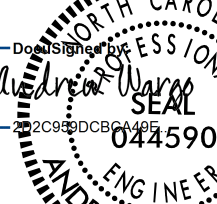
PAVEMENT SCHEDULE

C1	1 1/2" S9.5C
C2	1 1/2" S9.5B
C4	3" S9.5B
D1	2 1/2" 119.0C
D2	4" 119.0C
E2	4" B25.0C
E5	5 1/2" B25.0C
J1	PROP. 4" AGGREGATE BASE COURSE
R1	2'-6" C&G
R2	1'-6" C&G
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	1.5" MILLING
V2	2.5" MILLING
W	WEDGING

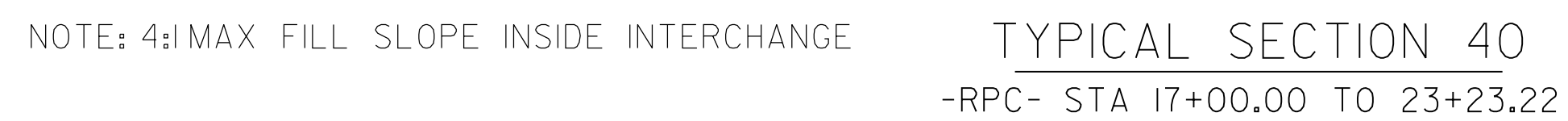


NOTE: *WIDEN SHOULDER 3' FOR GUARDRAIL

PAVEMENT SCHEDULE	
C3	3" S9.5C
C4	3" S9.5B
D1	2 1/2" 119.0C
D2	4" 119.0C
E1	3" B25.0C
E2	4" B25.0C
R1	2'-6" C&G
R4	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL

PROJECT REFERENCE NO. <i>U-4758</i>	SHEET NO. <i>2A-14</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
5/30/2025	5/30/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

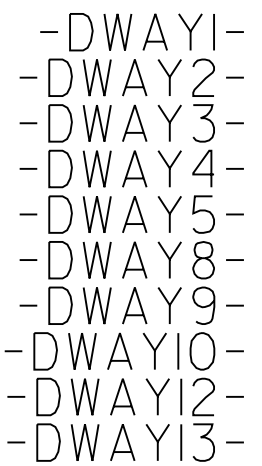
AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326



PAVEMENT SCHEDULE	
C3	3" S9.5C
D2	4" I19.0C
E5	5½" B25.0C
E6	7" B25.0C
R1	2'-6" C&G
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	WEDGING

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2A-15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
5/30/2025	5/30/2025
DO NOT SIGN IF UNLESS ALL SIGNATURES COMPLETED	

AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326



-DWAY1-	10+00	TO	11+31.11
-DWAY2-	10+00	TO	11+19.75
-DWAY3-	10+00	TO	11+60.46
-DWAY4-	10+00	TO	11+01.67
-DWAY5-	10+00	TO	11+07.95
-DWAY8-	10+00	TO	11+16.16
-DWAY9-	10+00	TO	11+04.95
-DWAY10-	10+54.97	TO	11+27.17
-DWAY12-	10+00	TO	10+94.30
-DWAY13-	10+55.00	TO	10+99.36



-DWAY6- 10+00 TO 10+86.27
-DWAY7- 10+00 TO 11+20.88



-DWAY20- 10+00 TO 14+05.59



-DWAY24- 10+90.00 TO 17+09.66

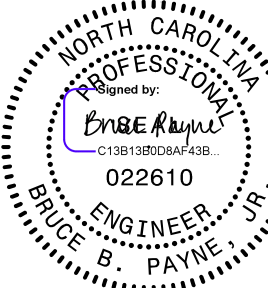


-DWAY22- 10+00 TO 11+04.64



-DWAY26- 10+10.00 TO 10+86.29

PAVEMENT SCHEDULE	
A1	6" PCC (CONCRETE DRIVEWAY)
C4	3" S9.5B
C7	2 1/2" S9.5B
D1	2 1/2" 119.0C
D2	4" 119.0C
E2	4" B25.0C
J2	PROP. 8" AGGREGATE BASE COURSE
R1	2'-6" C&G
T	EARTH MATERIAL
U	EXISTING PAVEMENT

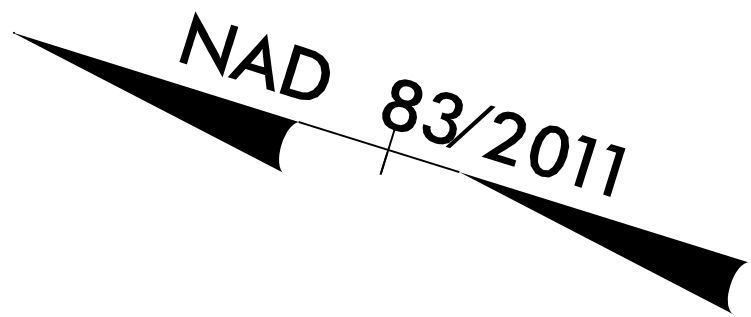
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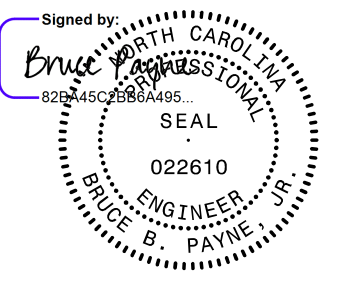
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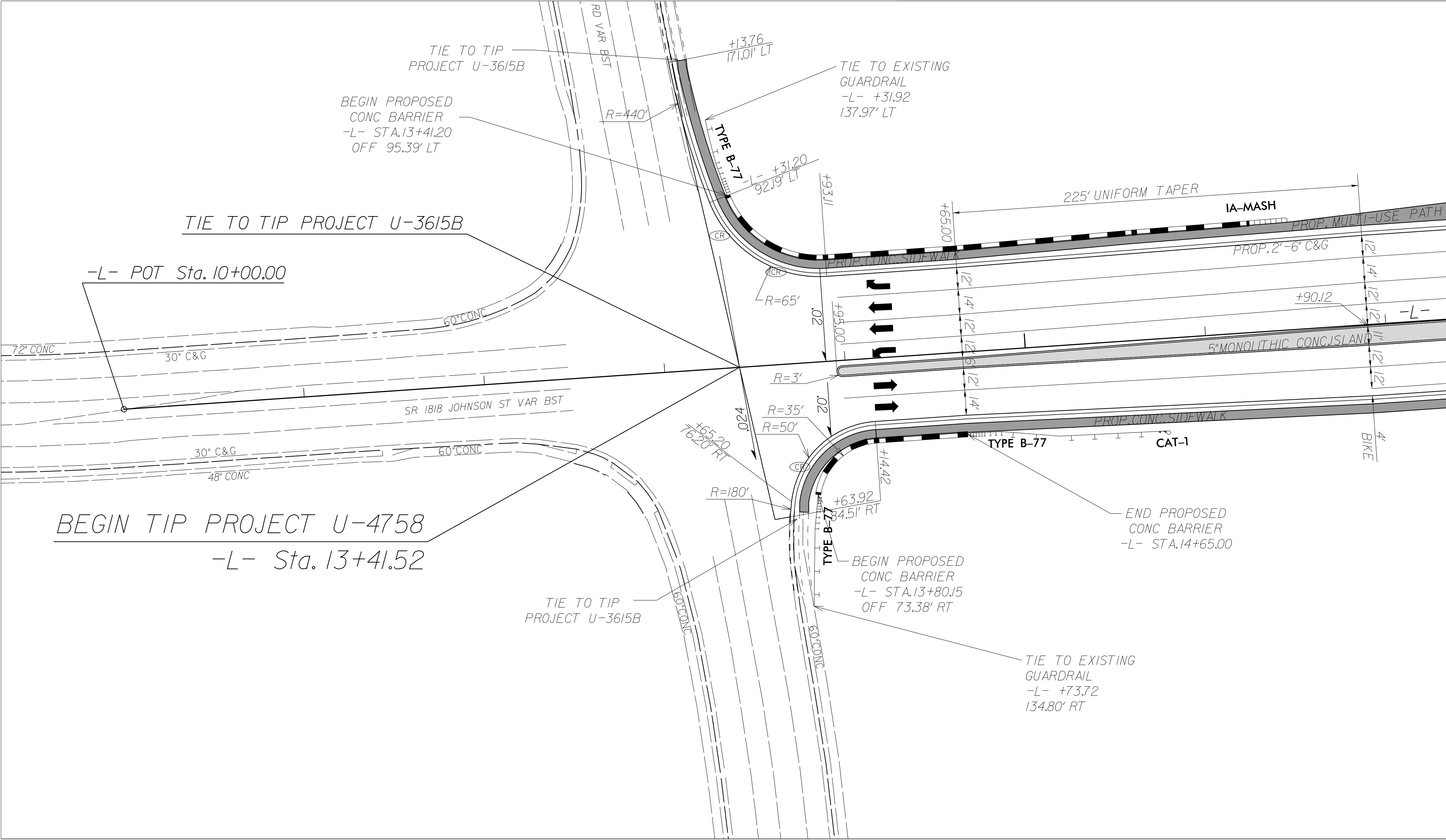
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INTERSECTION DETAILS

NOT TO SCALE



PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by:  5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



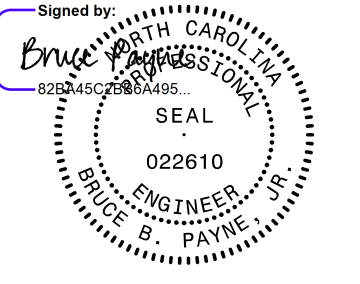
INTERSECTION OF
JOHNSON STREET (-L-)
SKEET CLUB ROAD
(SEE PLAN SHEET 4)

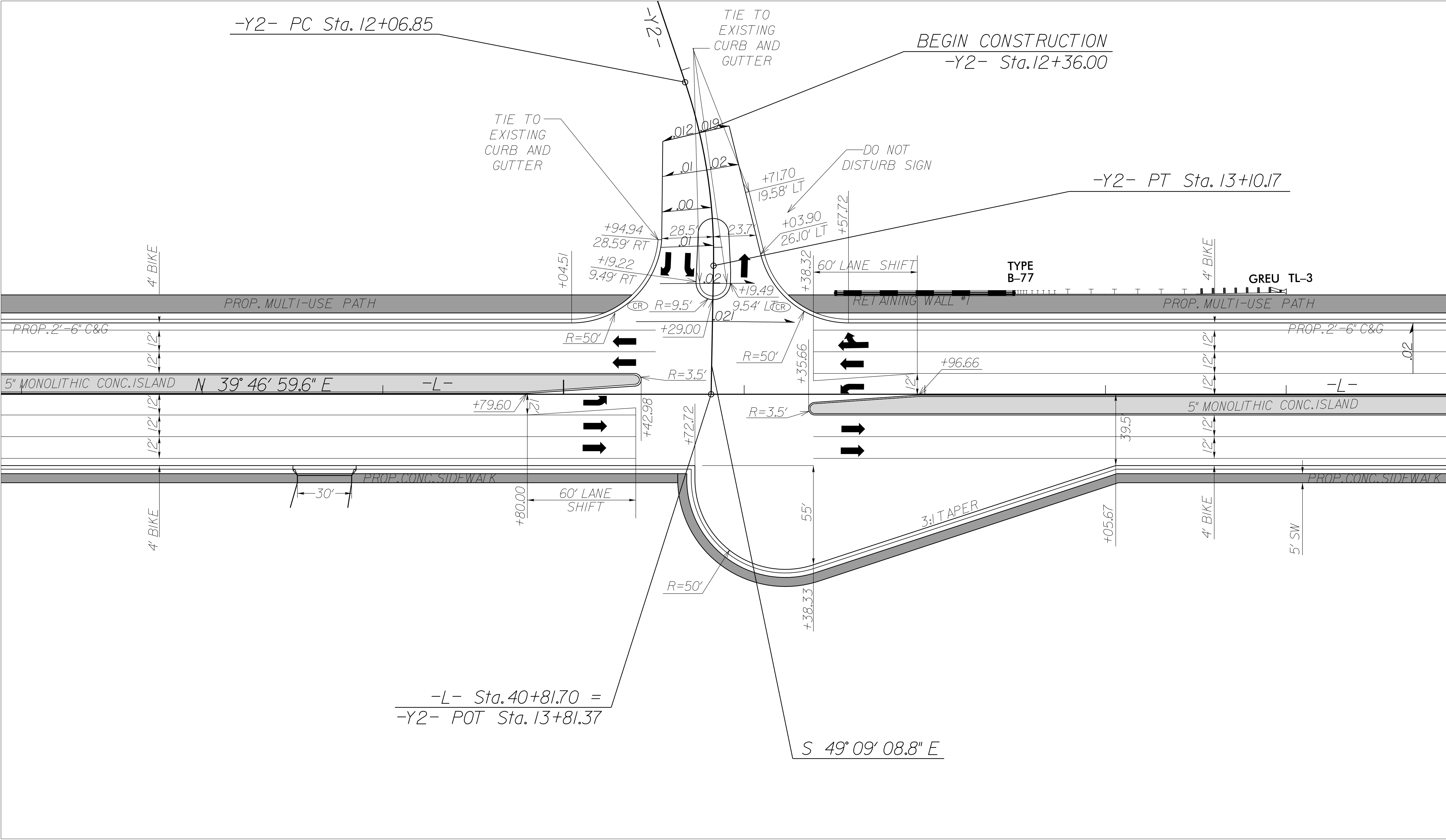
NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS

8/17/99

NAD 83/2011

INTERSECTION DETAILS
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
SIGNED BY:  5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



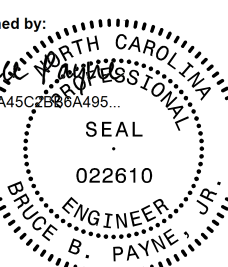
INTERSECTION OF
JOHNSON STREET (-L-)
PONDHAVEN DRIVE (-Y2-)
(SEE PLAN SHEET 6)

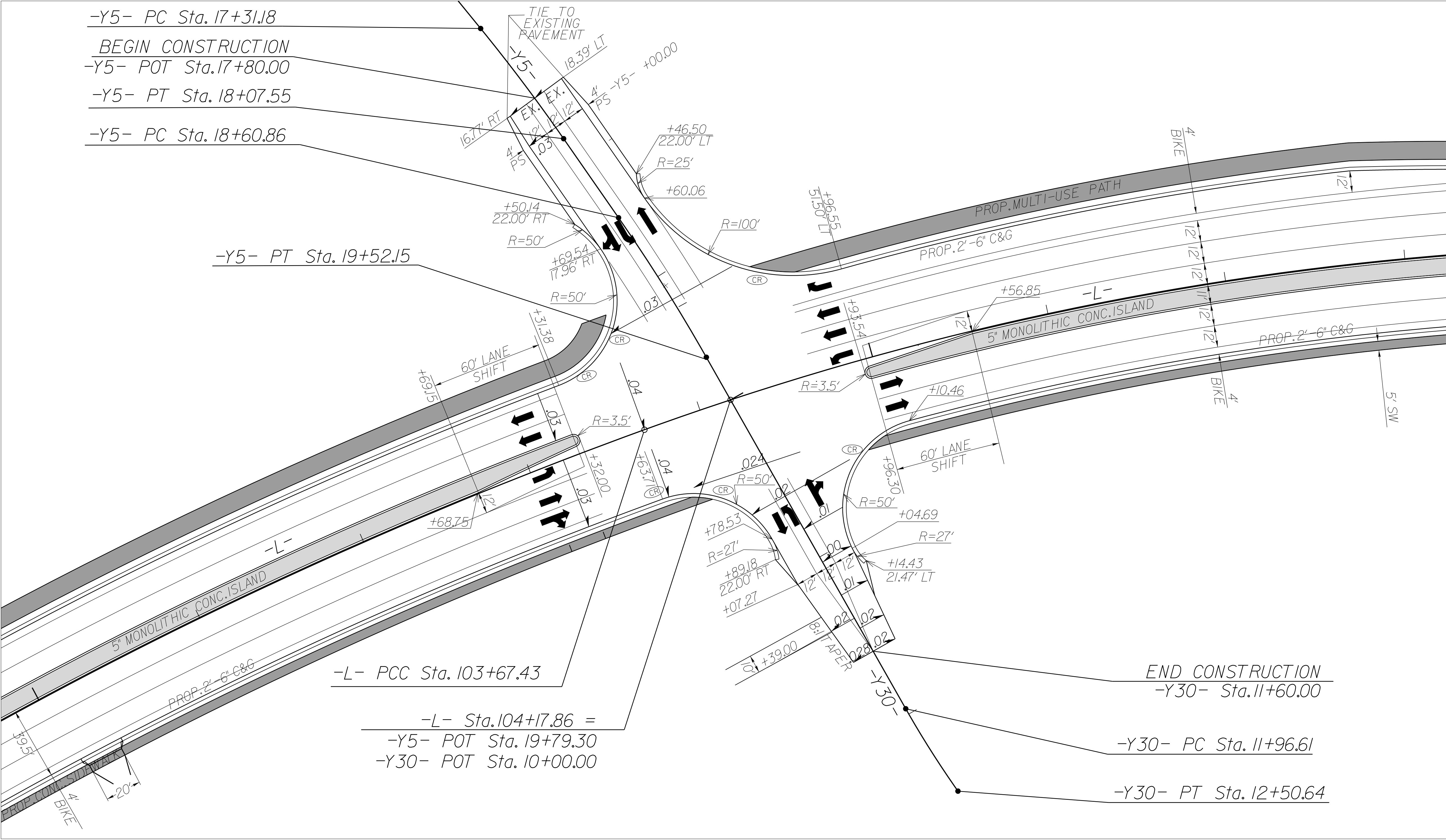
NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS

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BRUCE PAYNE

NOT TO SCALE

NAD 83/2011

PROJECT REFERENCE NO.		SHEET NO.	
U-4758		2B-3	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Signed by:  			
5/30/2025			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



**INTERSECTION OF
JOHNSON STREET (-L-) AND
SANDY RIDGE ROAD (-Y5-) AND
FUTURE PIEDMONT PARKWAY EXTENSION (-Y30-)
(SEE PLAN SHEET II)**

**NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS**

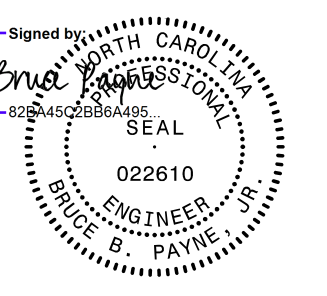
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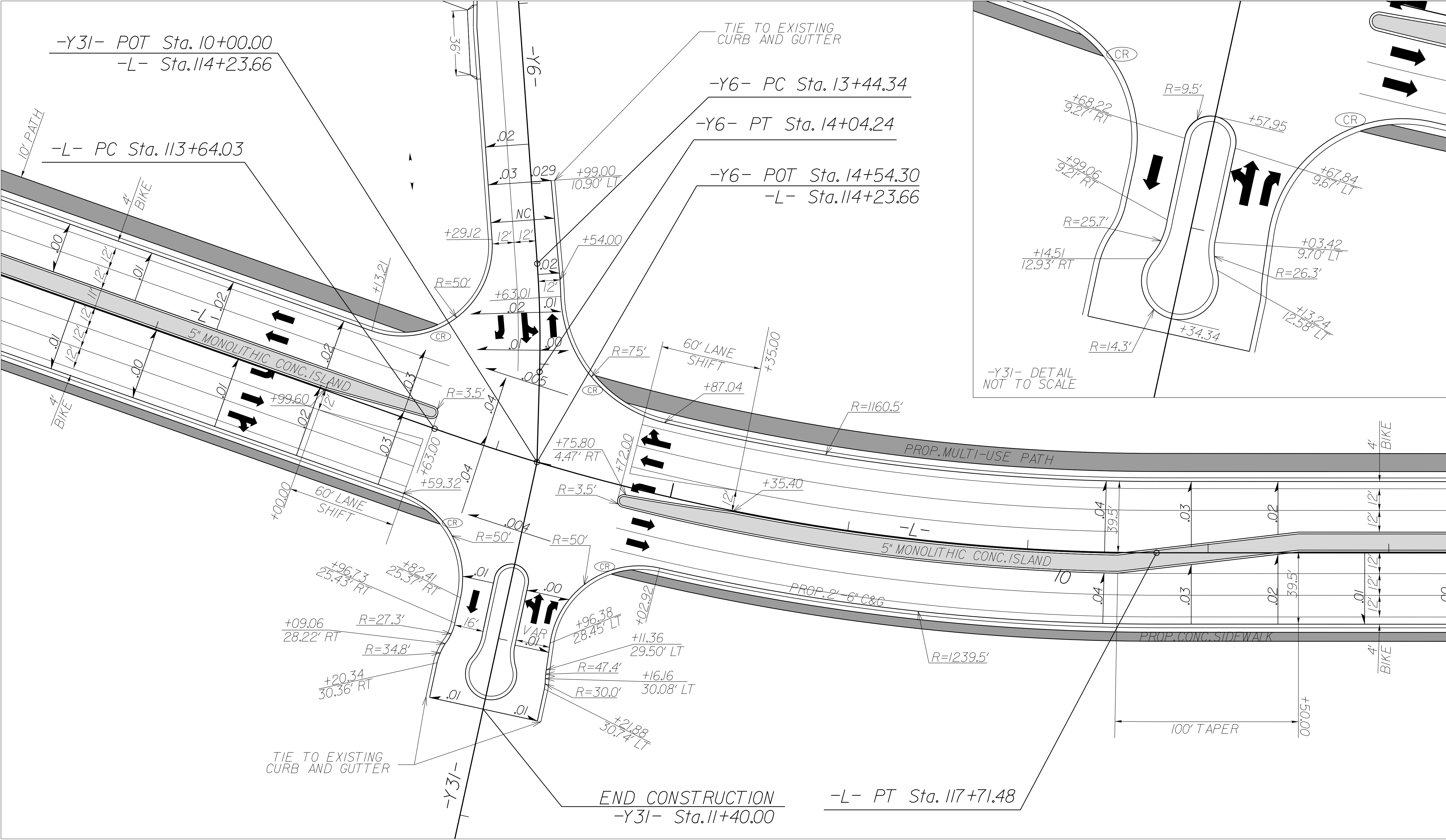
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INTERSECTION DETAILS

NOT TO SCALE

NAD 83/2011

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by:  022610 ENGINEER BRUCE R. PRYOR	
5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



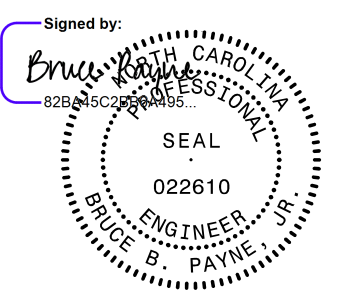
8/17/99

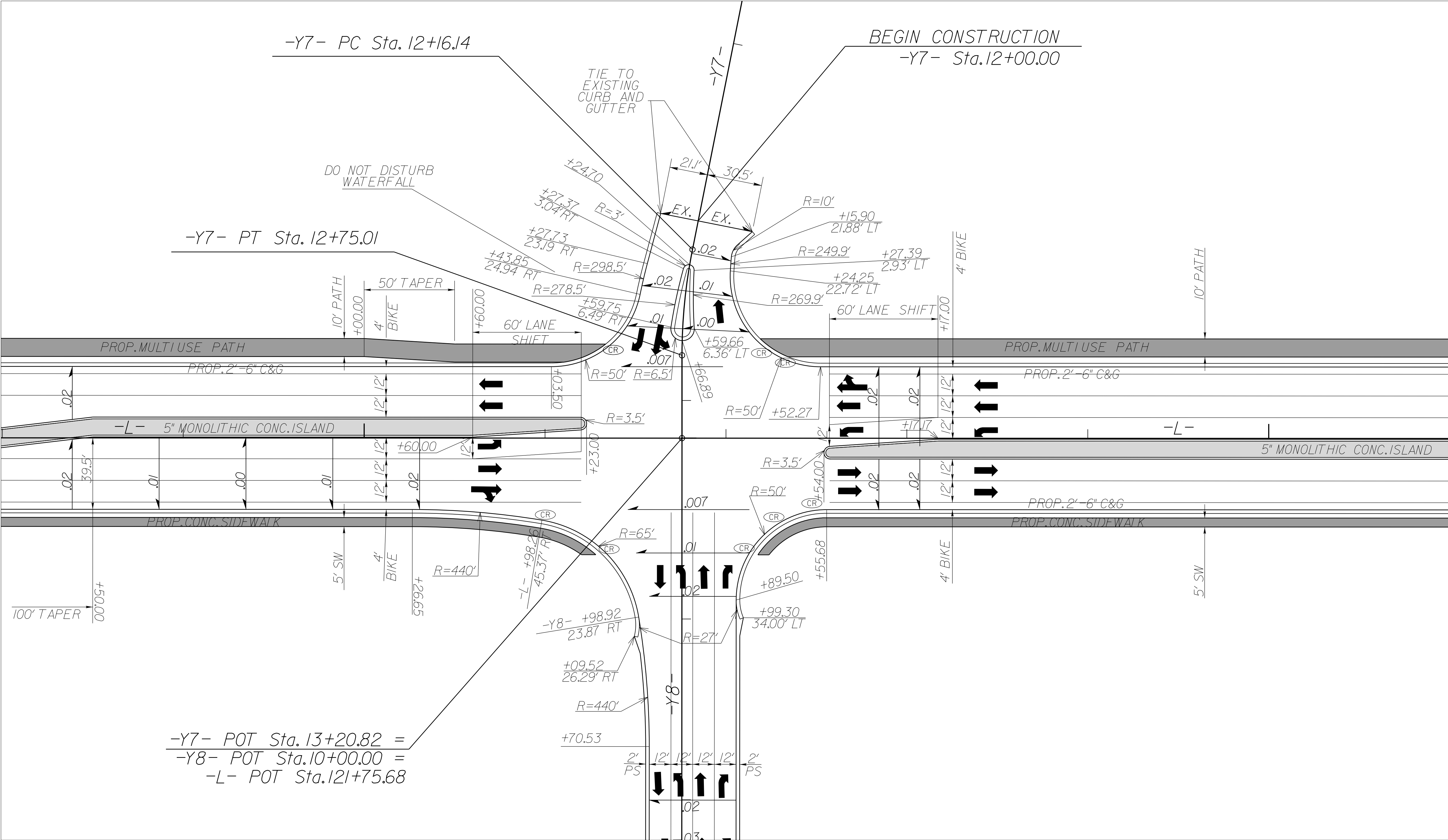
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INTERSECTION DETAILS

NOT TO SCALE

NAD 83/2011

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by: 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



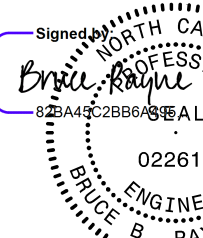
INTERSECTION OF
SANDY RIDGE ROAD (-L-)
JOHN KNOX DRIVE (-Y7-) AND
KENDALE ROAD (-Y8-)
(SEE PLAN SHEET 12)

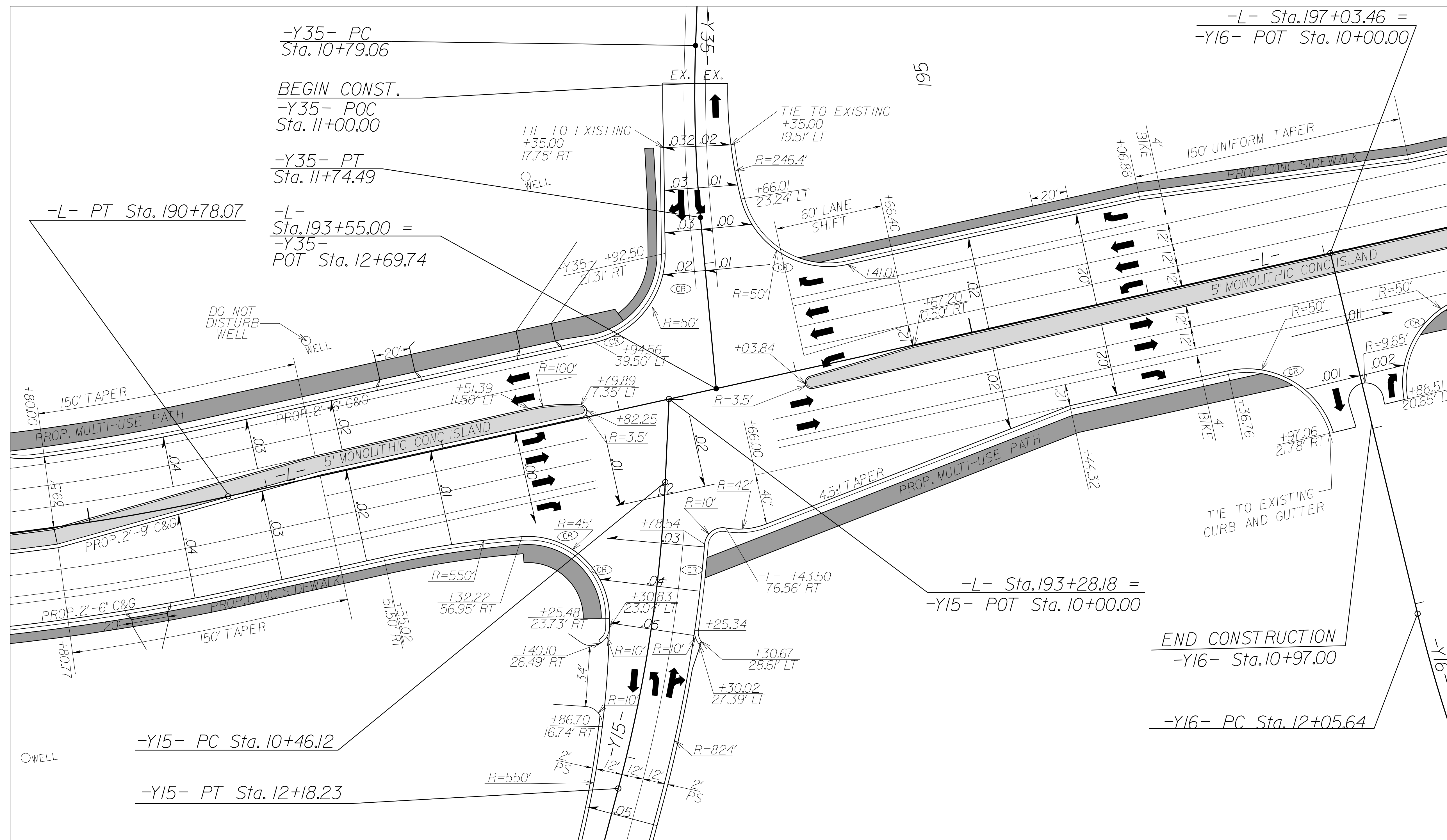
NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS

INTERSECTION DETAILS

NOT TO SCALE

NAD 83/2011

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**INTERSECTION OF
SANDY RIDGE ROAD (-L-)
GALLIMORE DAIRY ROAD (-Y15-) AND (-Y35-)
(SEE PLAN SHEET 18)**

**NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS**

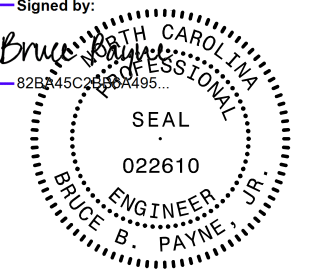
8/17/99

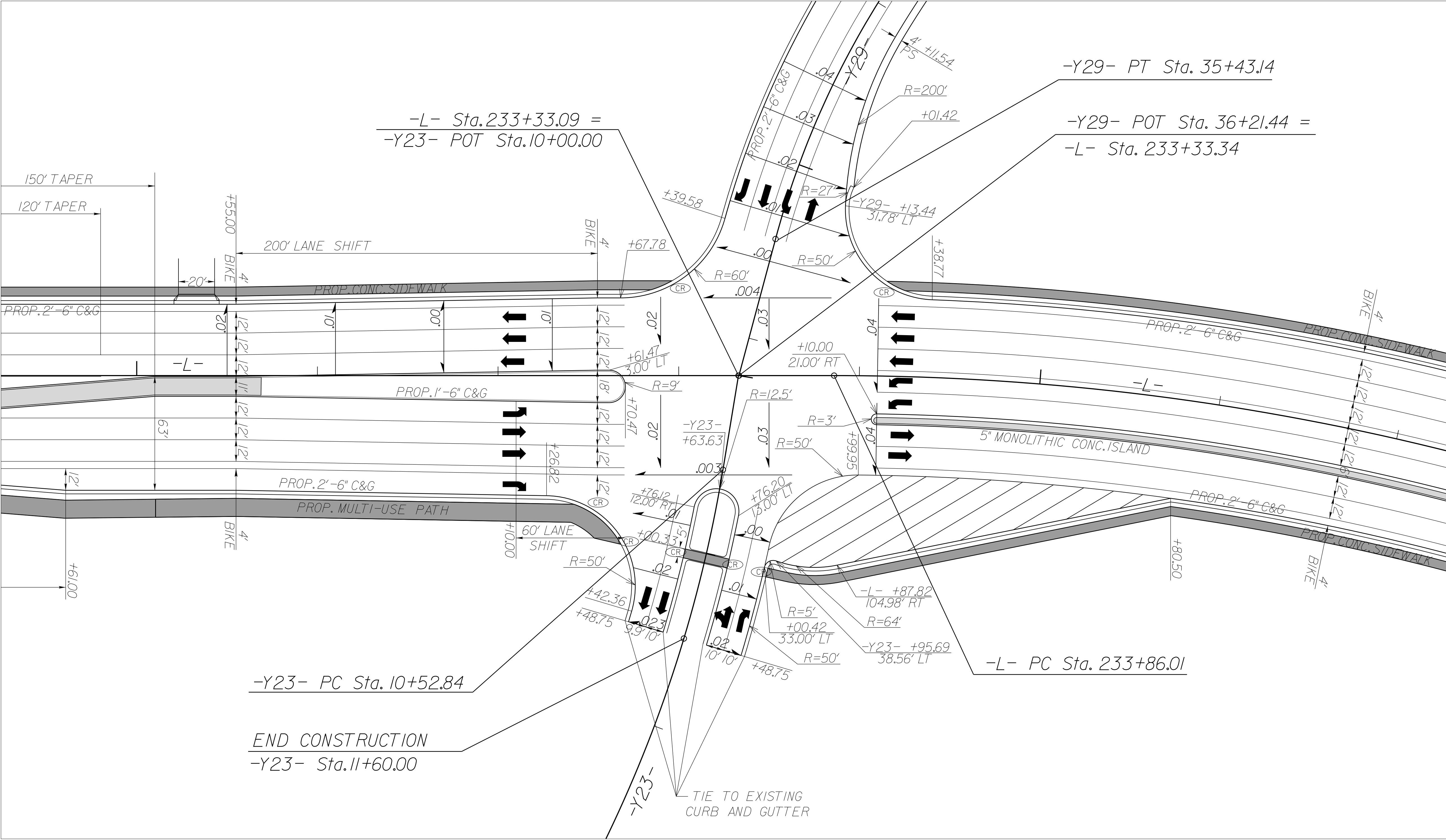
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NAD 83/2011

INTERSECTION DETAILS

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by:  5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



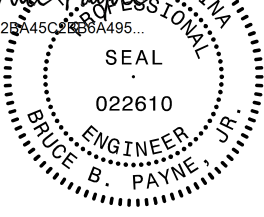
INTERSECTION OF
SANDY RIDGE ROAD (-L-)
FARMERS MARKET ENT (-Y23-) AND
NORCROSS ROAD (-Y29-)
(SEE PLAN SHEET 22)

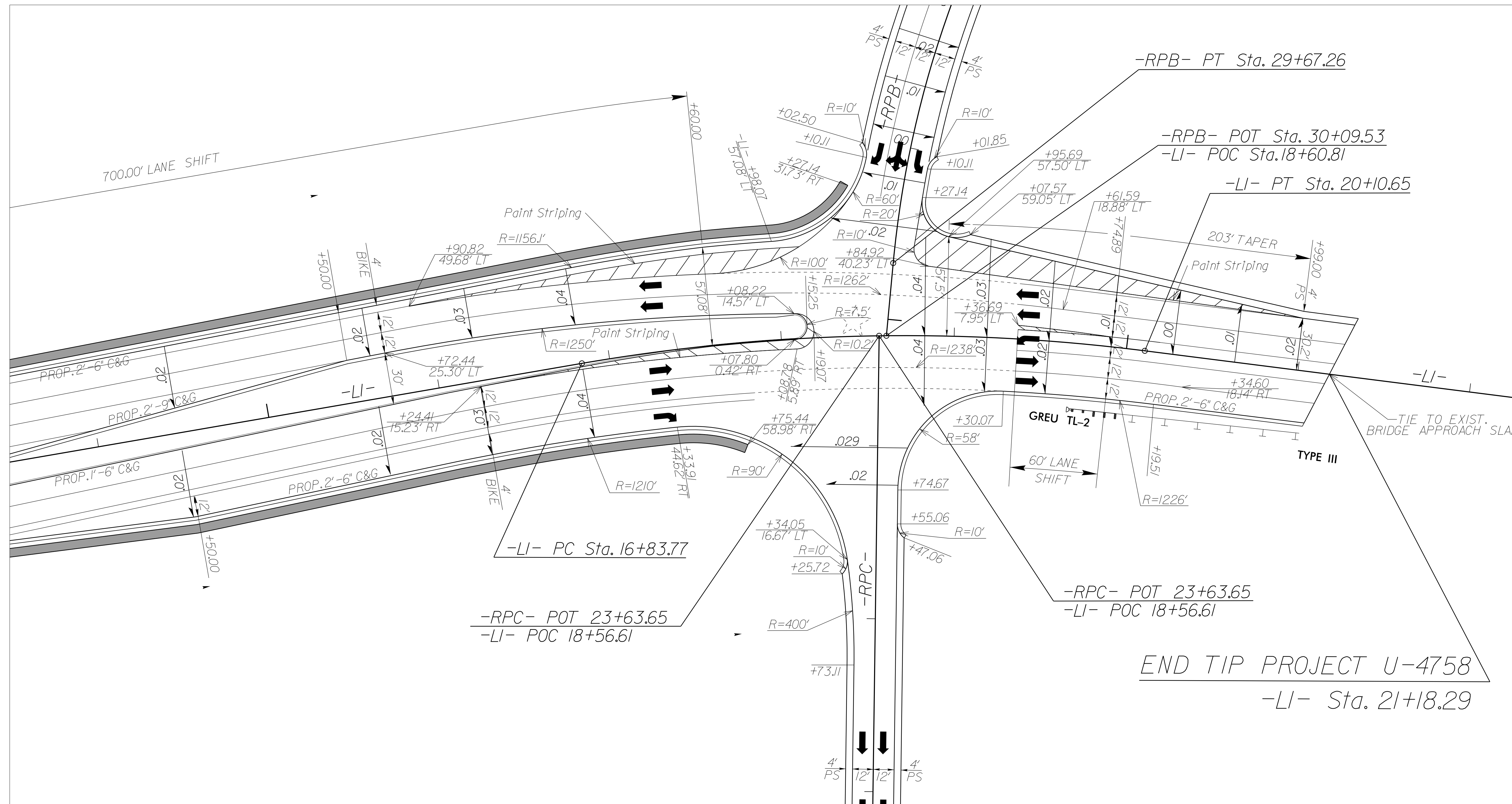
NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS

INTERSECTION DETAILS

NOT TO SCALE

NAD 83/2011

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by:  BRUCE B. PAYNE STATE OF NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER EXPIRATION DATE 06/30/2025  5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**INTERSECTION OF
SANDY RIDGE ROAD (-LI-)
RAMP B (-RPB-) AND RAMP C (-RPC-)
(SEE PLAN SHEET 23)**

NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS

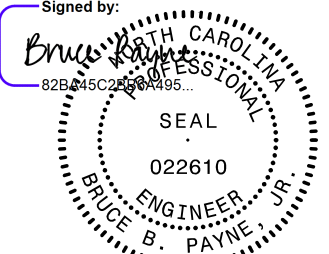
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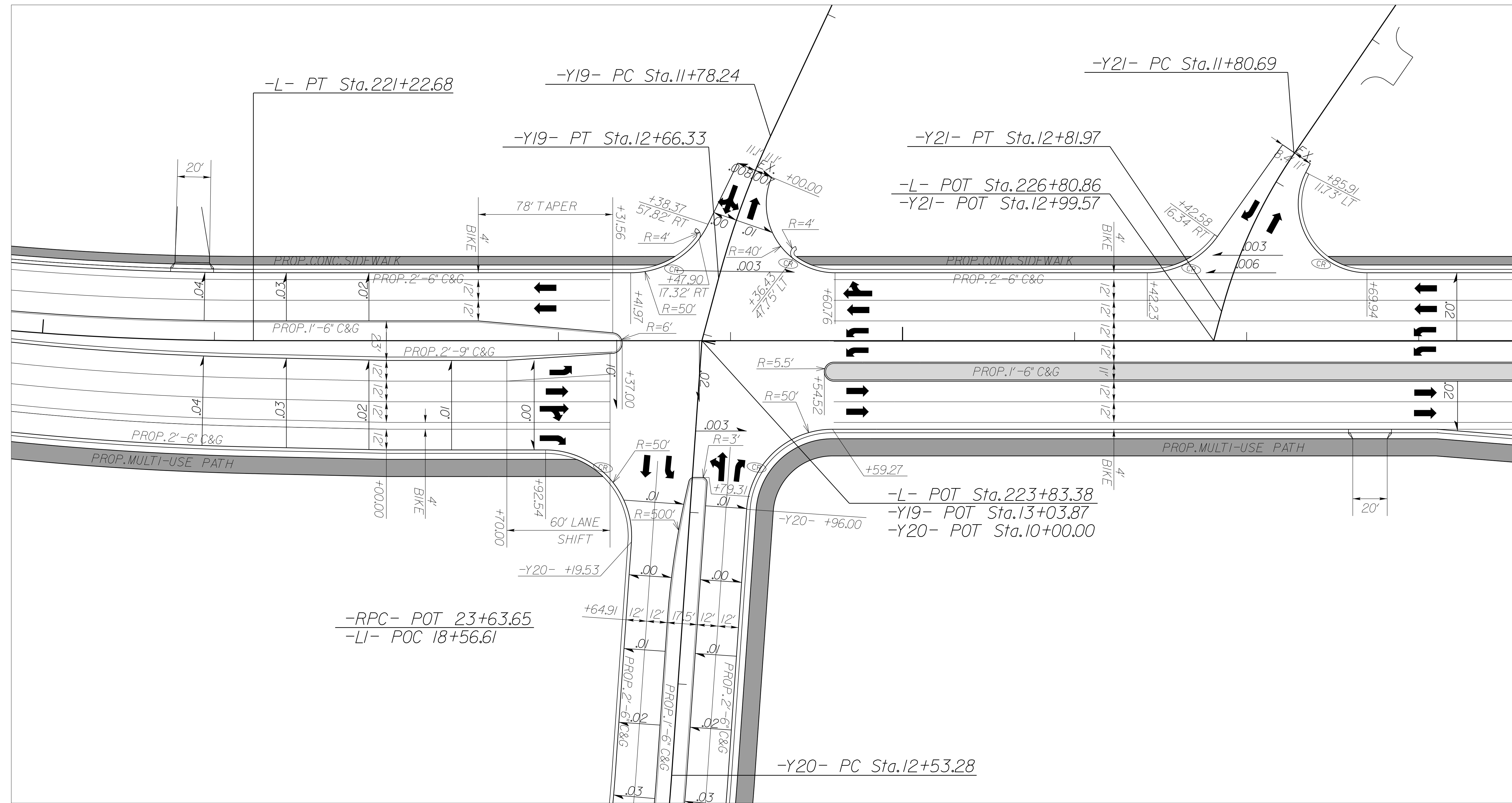
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INTERSECTION DETAILS

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by:  5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

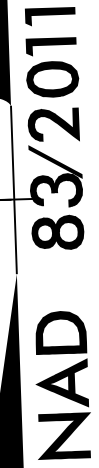


INTERSECTION OF
SANDY RIDGE ROAD (-L-)
TYNER LOOP (-Y19-) AND TYNER ROAD (-Y20-)
(SEE PLAN SHEET 25)

NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS

NOT TO SCALE

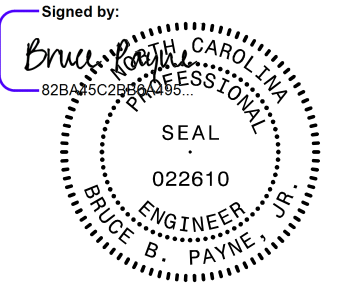
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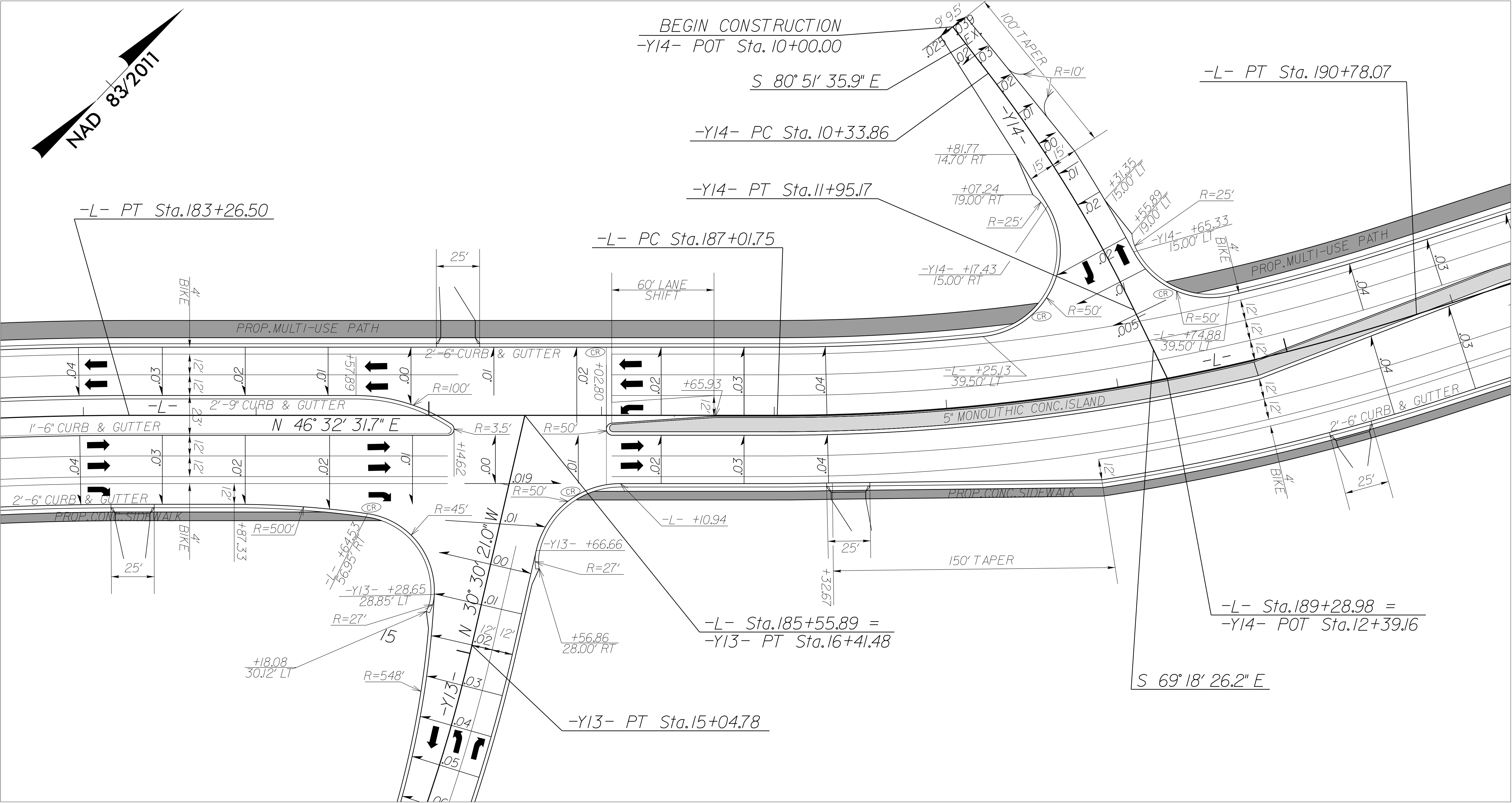


**NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS**

8/17/99

INTERSECTION DETAILS
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2B-II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Signed by: 	
5/30/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



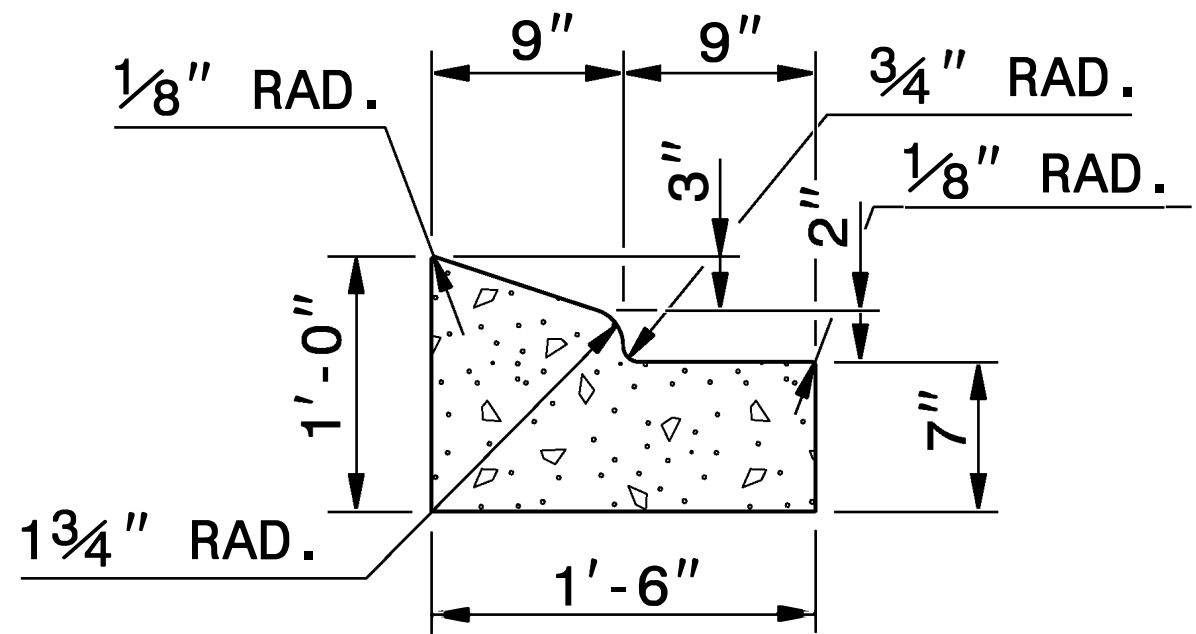
INTERSECTION OF
CLINARD FARMS ROAD (-Y13-)
ROSE HAVEN ROAD (-Y14-)
(SEE PLAN SHEET 18)

**NOTE: SEE PMP PLANS FOR WHEEL CHAIR RAMP
AND PAVEMENT MARKING LOCATIONS**

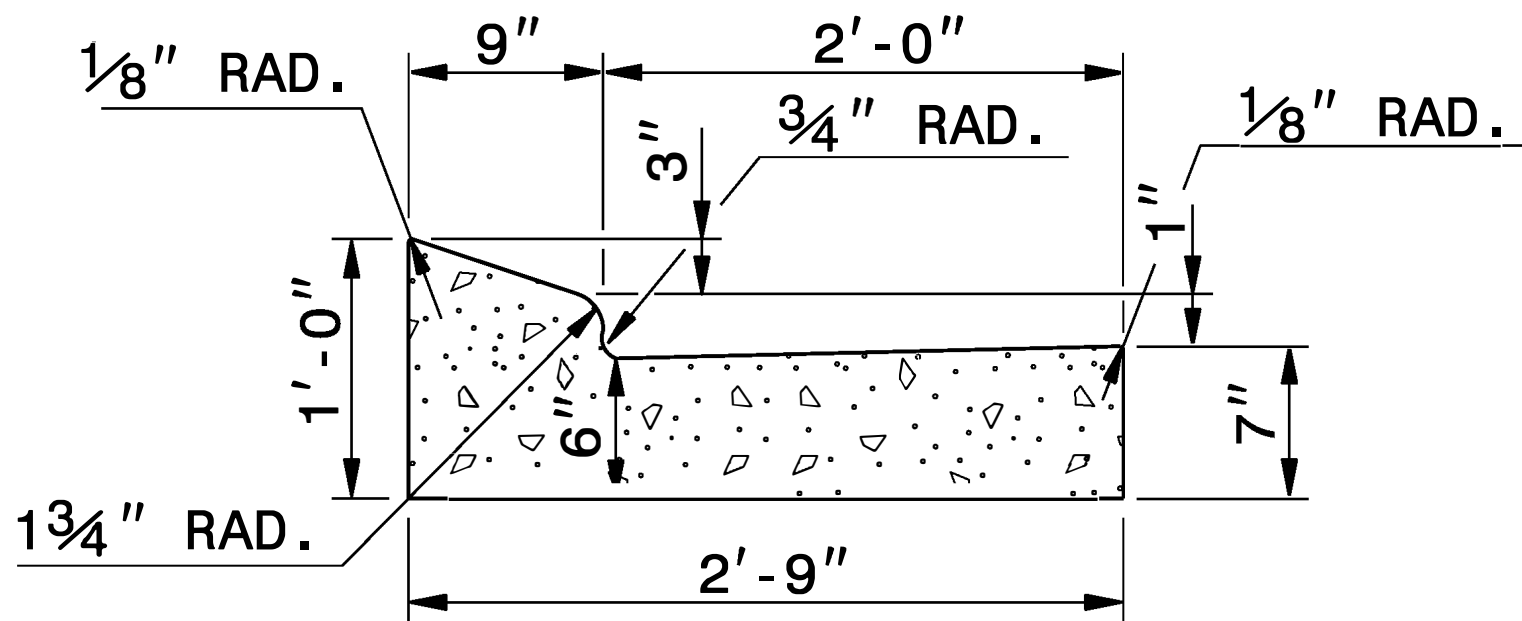
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5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-4758	2C-1



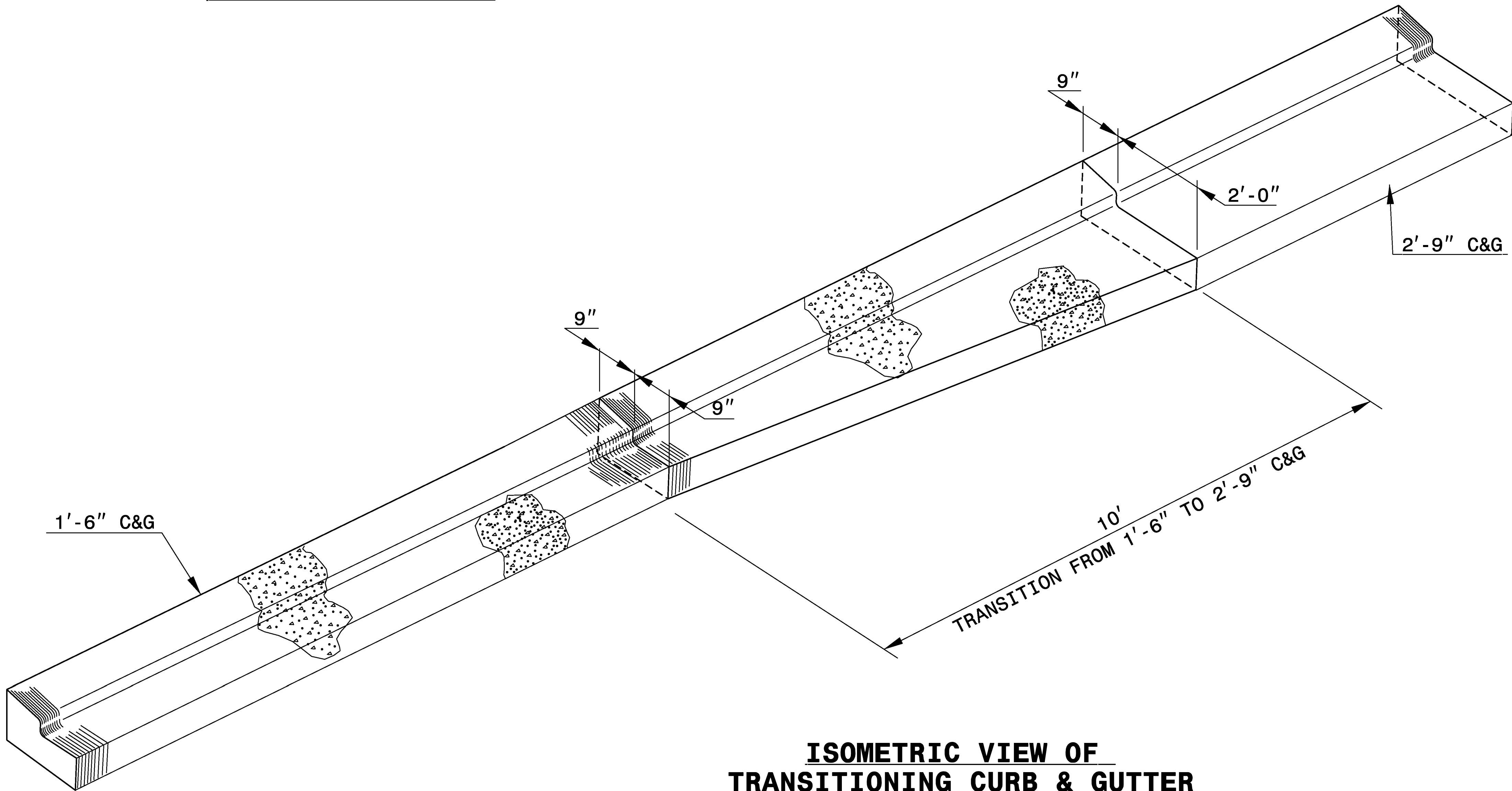
1'-6" CURB AND GUTTER



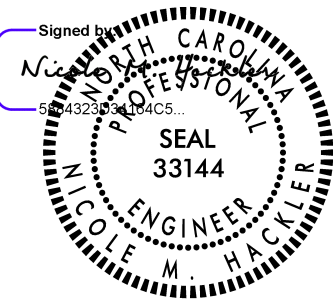
2'-9" CURB AND GUTTER

NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



**ISOMETRIC VIEW OF
TRANSITIONING CURB & GUTTER**



5/22/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

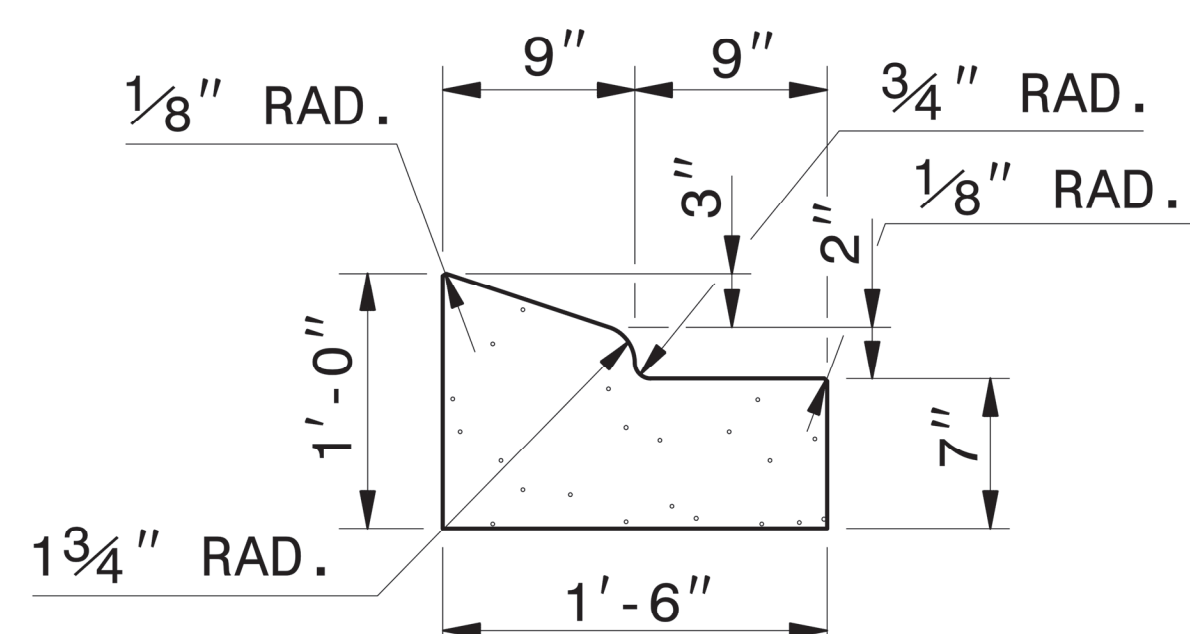
CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

**DETAIL OF 1'-6"
TO 2'-9" CURB & GUTTER
TRANSITION SECTION**

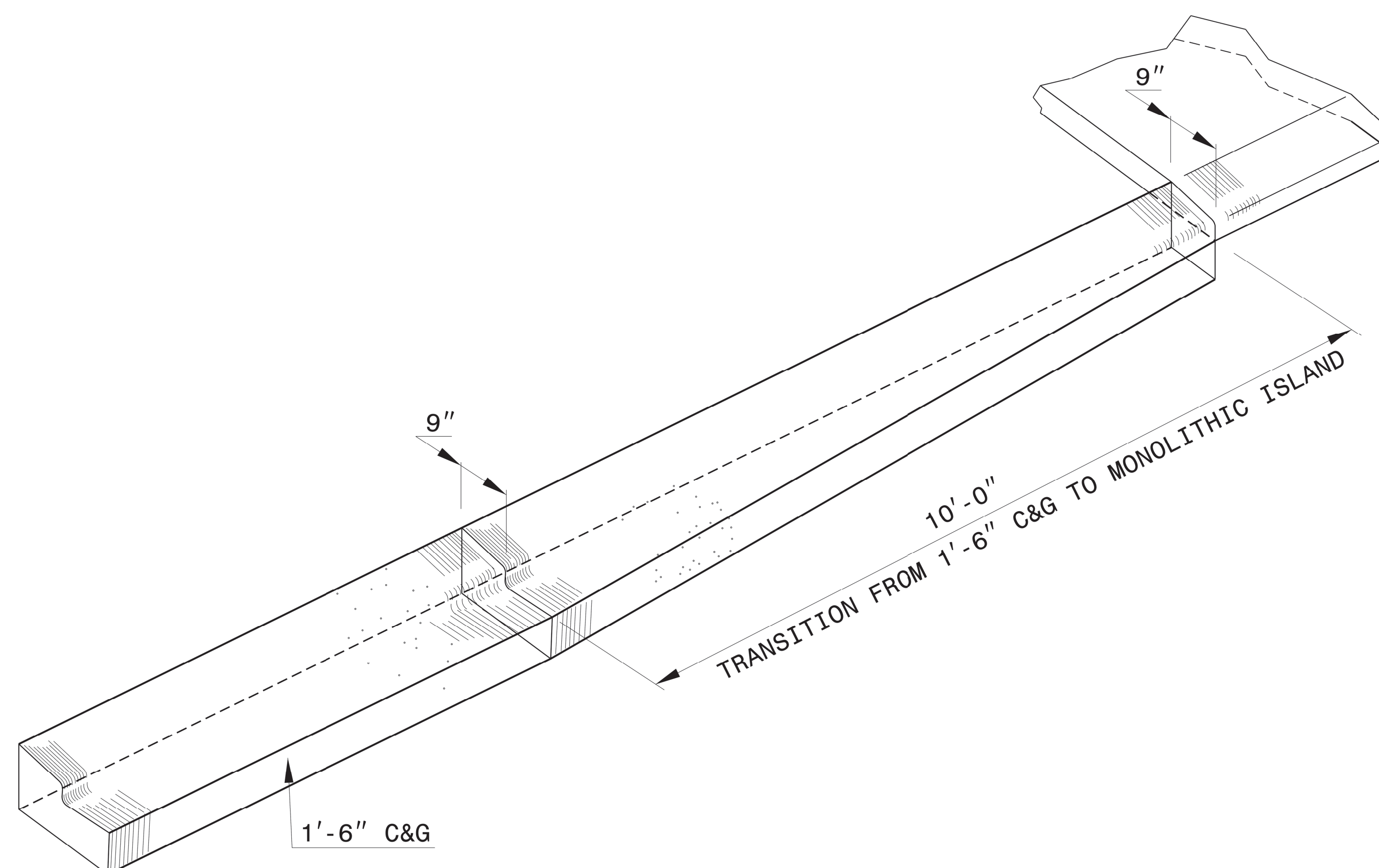
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CHECKED BY: DATE:
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NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL
CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF
CURB TRANSITION.



1'-6" CURB AND GUTTER



ISOMETRIC VIEW OF TRANSITIONING CURB & GUTTER

Signed by:
Nicole M. Hack
58843373444

SEAL
33144
NORTH CAROLINA
PROFESSIONAL
ENGINEER
NICOLE M. HACK

5/22/2025

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

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

DETAIL OF 1'-6"
CURB & GUTTER
TRANSITION SECTION

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: KKEMPF DATE: 09-24-14
CHECKED BY: _____ DATE: _____
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STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

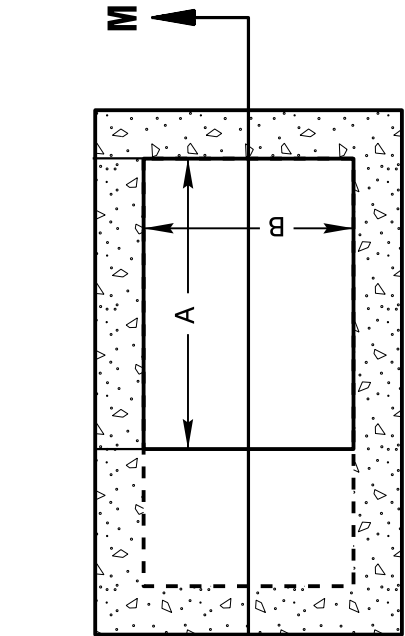
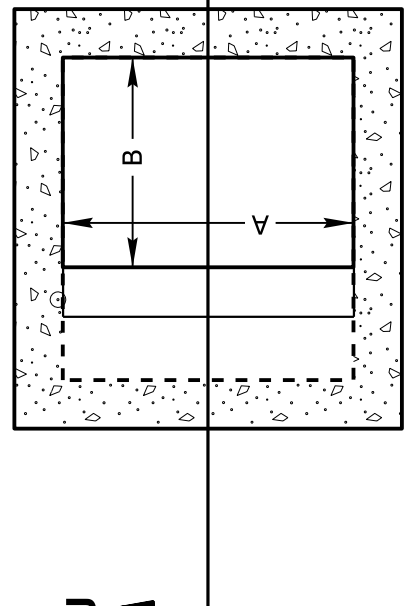
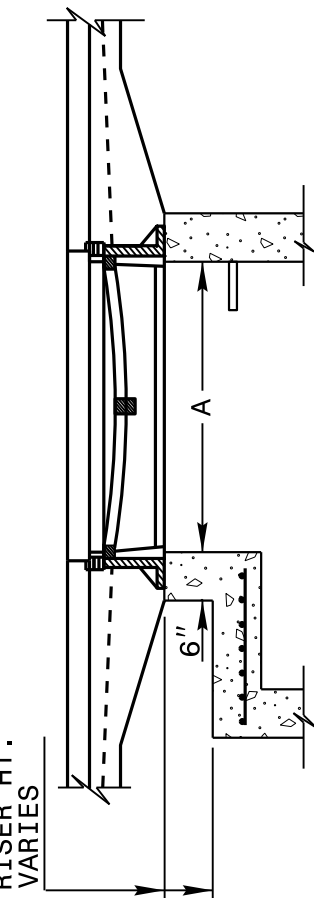
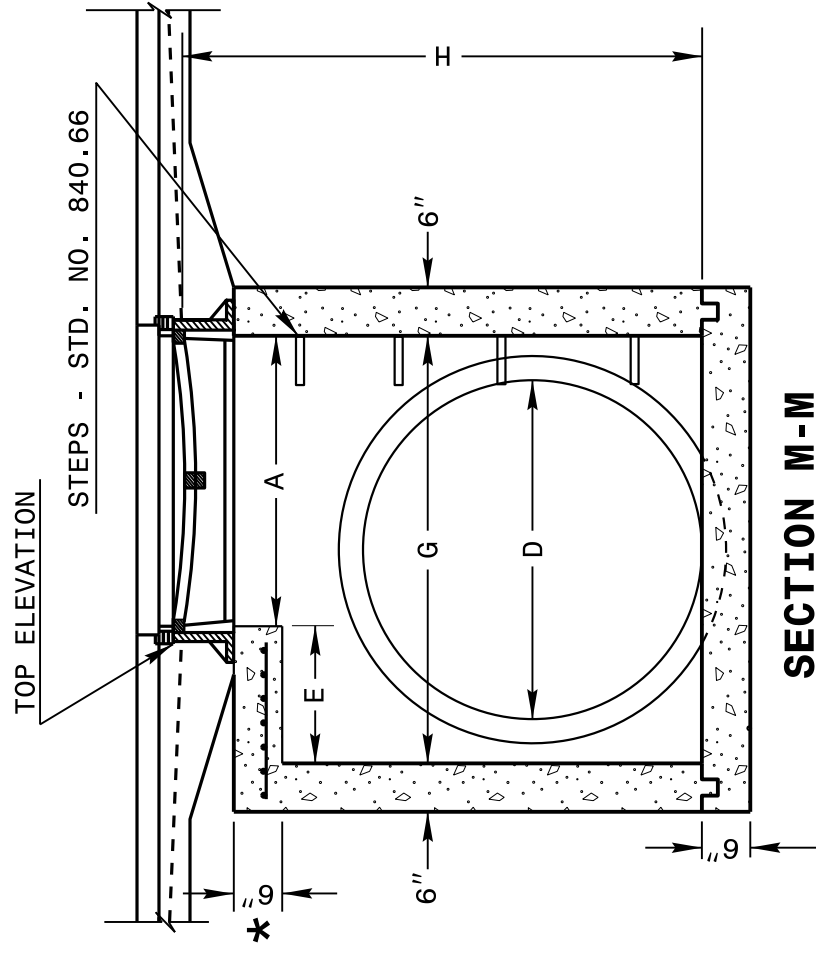
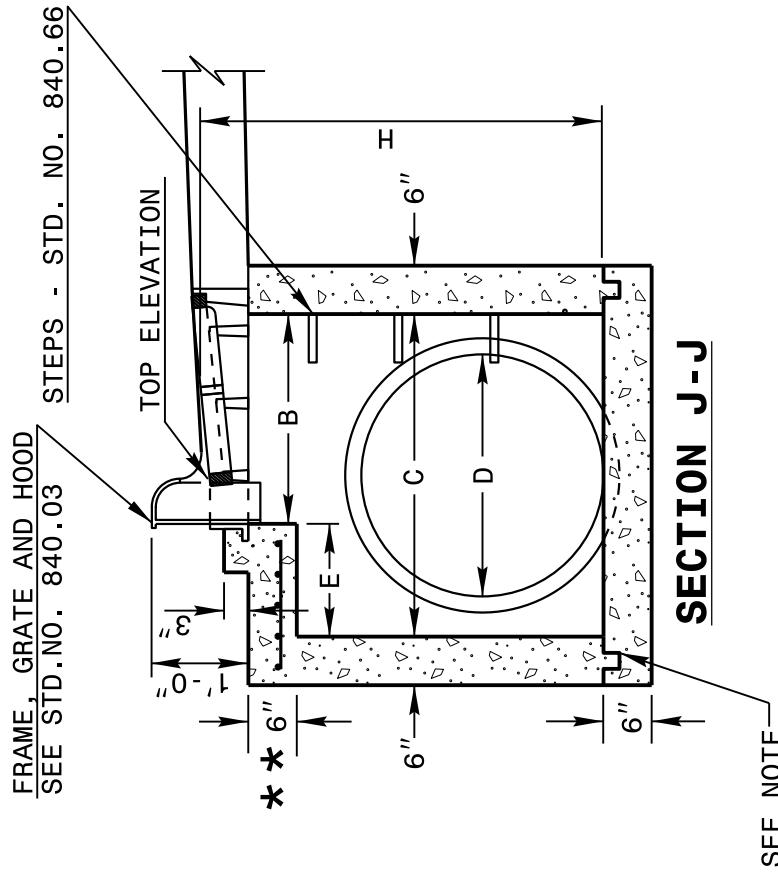
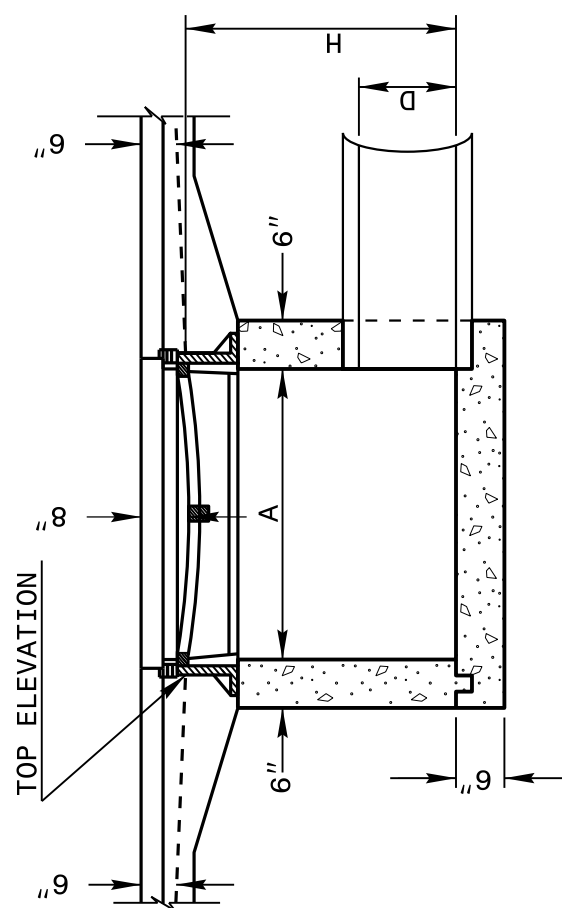
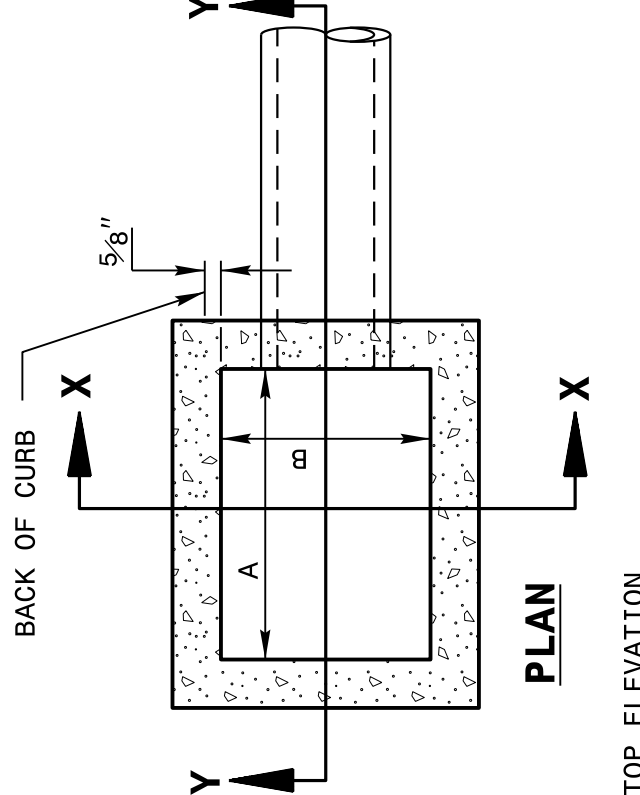
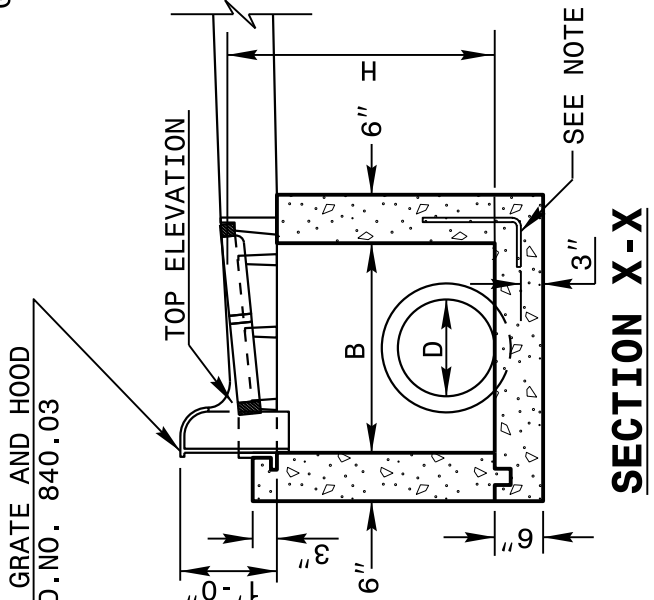
ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

SHEET 1 OF 2

840D02

GENERAL NOTES:

- USE CLASS "B" CONCRETE THROUGHOUT.
- PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
- OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
- USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
- IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
- USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
- FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
- CONSTRUCT WITH PIPE CROWNS MATCHING.
- CHAMFER ALL EXPOSED CORNERS 1".
- ** FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.



DETAIL SHOWING METHOD
OF RISER CONSTRUCTION

PLAN

PLAN

SHEET 1 OF 2
840D02

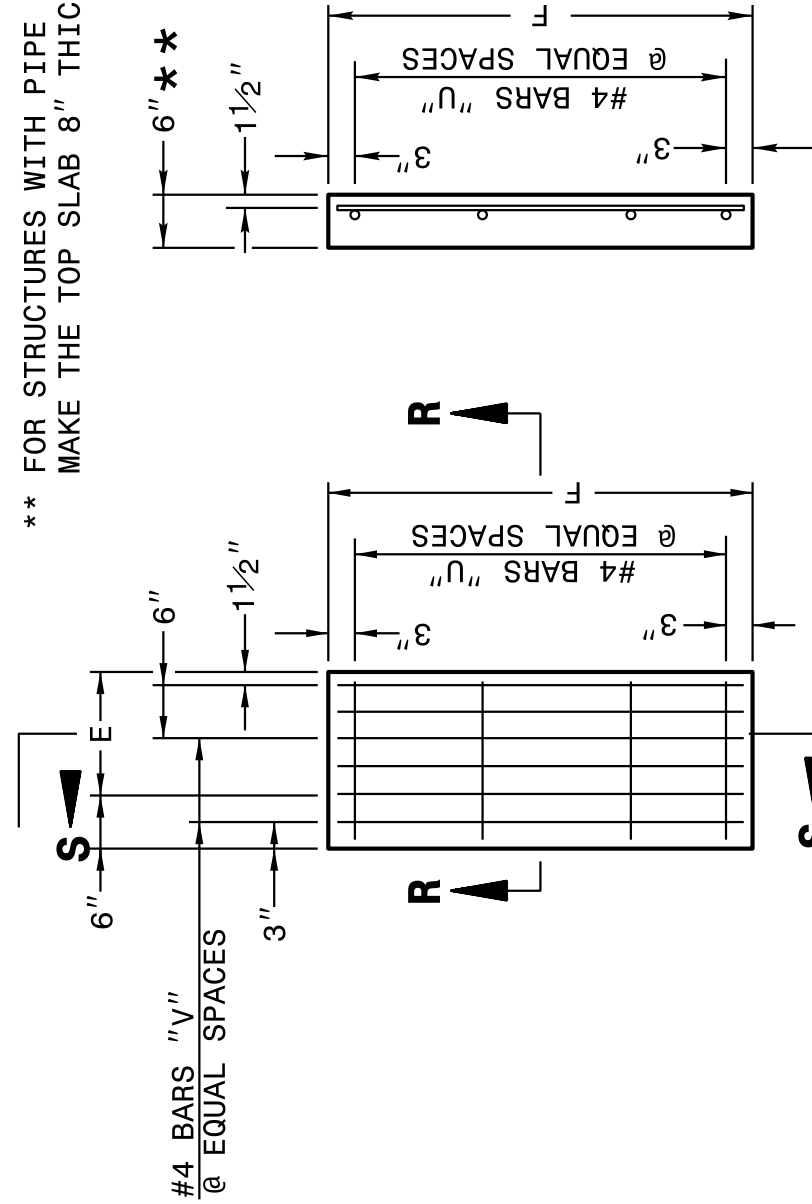
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
**MINIMUM DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

SHEET 2 OF 2

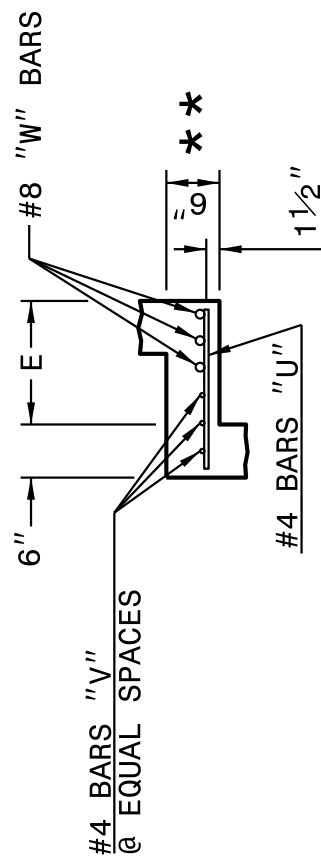
840D02

** FOR STRUCTURES WITH PIPE LARGER THAN 54",
MAKE THE TOP SLAB 8" THICK.



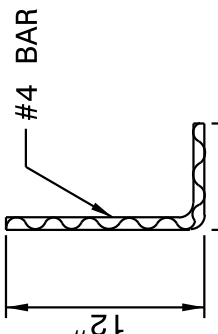
PLAN OF TOP SLAB

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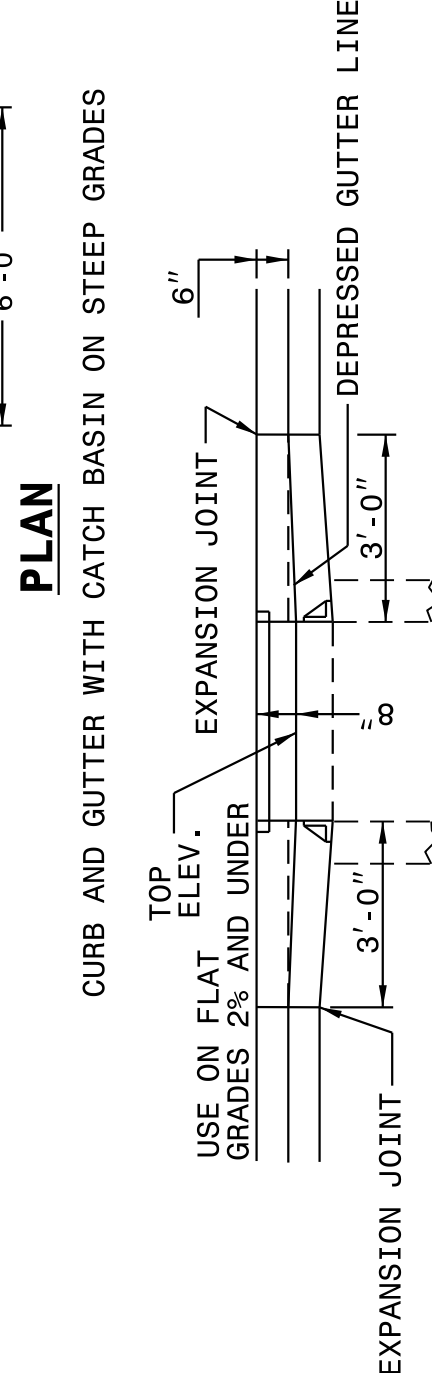


SECTION R-R

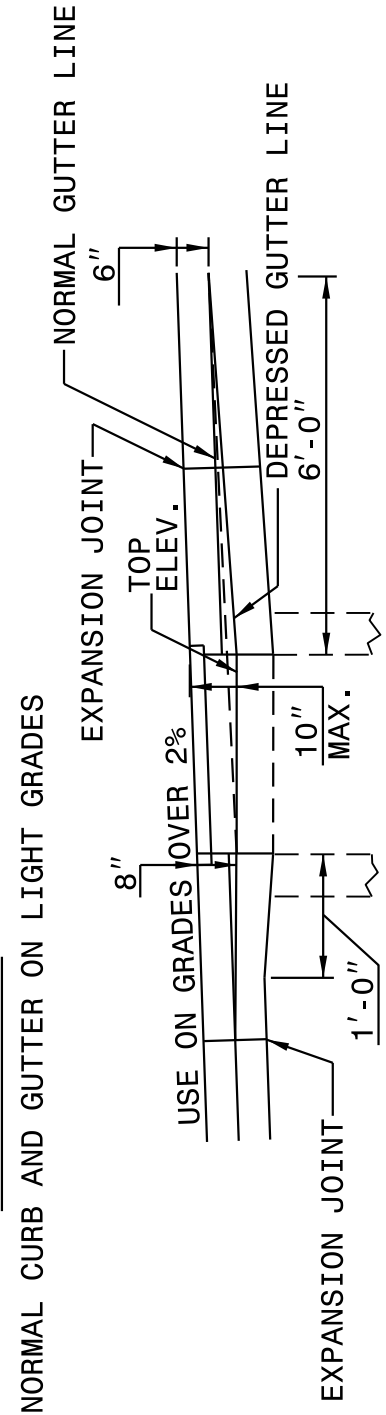
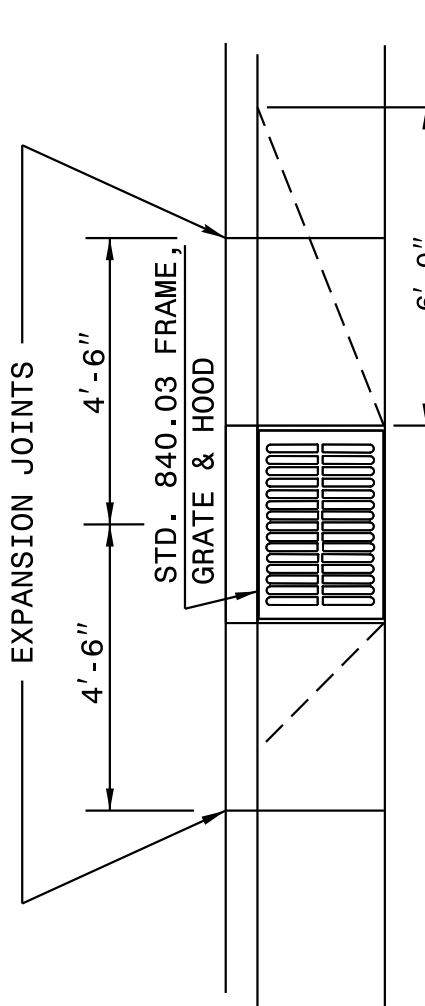
DOWEL



ELEVATION



PLAN



ELEVATION

NORMAL CURB AND GUTTER ON STEEP GRADES

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

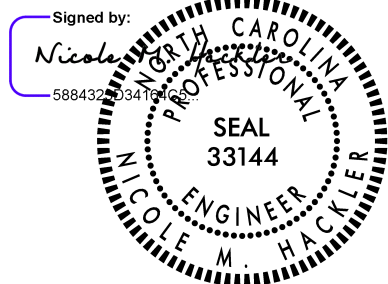
MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *									
COVER DIMENSION					CU. YDS. CONC. IN BOX				
COVER DIMENSION					CU. YDS. CONC. IN BOX				
PIPE D.	SPAN A.	WIDTH B.	DEPTH C.	MIN. HEIGHT H.	COVER E.	COVER F.	COVER G.	COVER H.	COVER I.
12"	3'-0"	2'-2"	--	2'-0"	--	--	--	--	--
15"	3'-0"	2'-2"	--	2'-3"	--	--	--	--	--
18"	3'-0"	2'-2"	--	2'-6"	--	--	--	--	--
24"	3'-0"	2'-2"	--	3'-1"	--	--	--	--	--
30"	3'-0"	2'-2"	3'-4"	3'-10"	1'-2"	4'-4"	4	1'-5"	2
36"	3'-0"	2'-2"	3'-10"	4'-6"	1'-8"	4'-10"	4	1'-11"	3
42"	3'-0"	2'-2"	4'-5"	4'-5"	2'-2"	5'-5"	5	2'-5"	4
48"	3'-0"	2'-2"	5'-0"	5'-6"	2'-10"	6'-0"	5	3'-1"	4
54"	3'-0"	2'-2"	5'-7"	6'-0"	3'-5"	6'-7"	6	3'-8"	5
60"	3'-0"	2'-2"	6'-3"	6'-3"	4'-1"	7'-3"	6	4'-4"	5
66"	3'-0"	2'-2"	6'-11"	7'-0"	4'-9"	7'-11"	7	5'-0"	6
72"	3'-0"	2'-2"	7'-6"	7'-6"	5'-3"	8'-6"	7	5'-6"	6
78"	3'-0"	2'-2"	8'-1"	8'-0"	5'-11"	9'-1"	8	6'-2"	7
84"	3'-0"	2'-2"	8'-9"	8'-9"	6'-7"	9'-9"	8	6'-10"	7

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

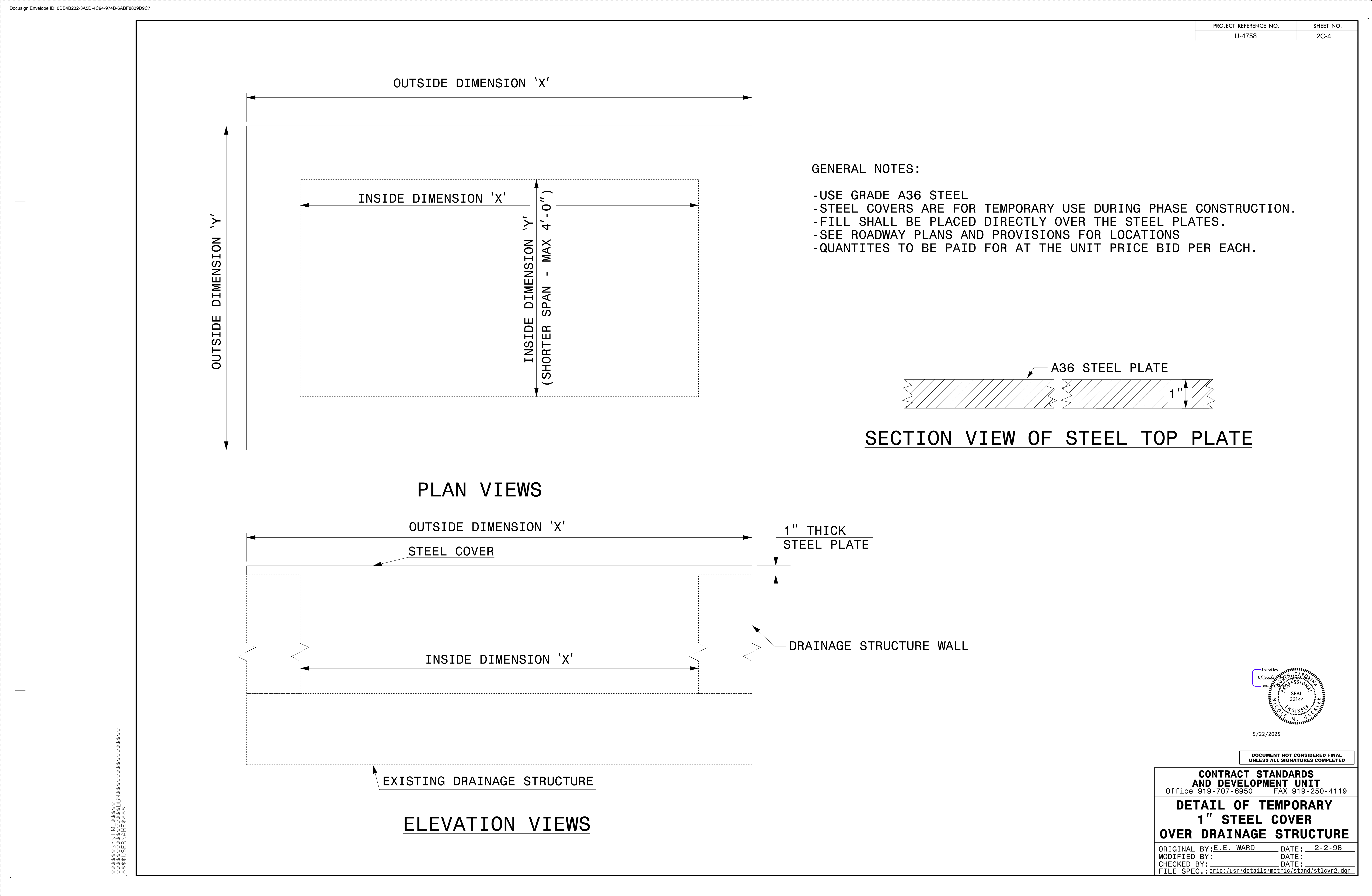
SEE PLATE FOR TITLE

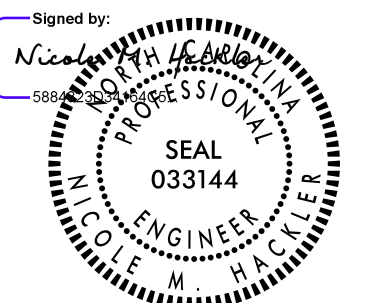
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MODIFIED BY: E.E. WARD DATE: 3-1-02
CHECKED BY: DATE:
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5/22/2025



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED





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

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

SEE TITLE BLOCK

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CHECKED BY:	DATE:
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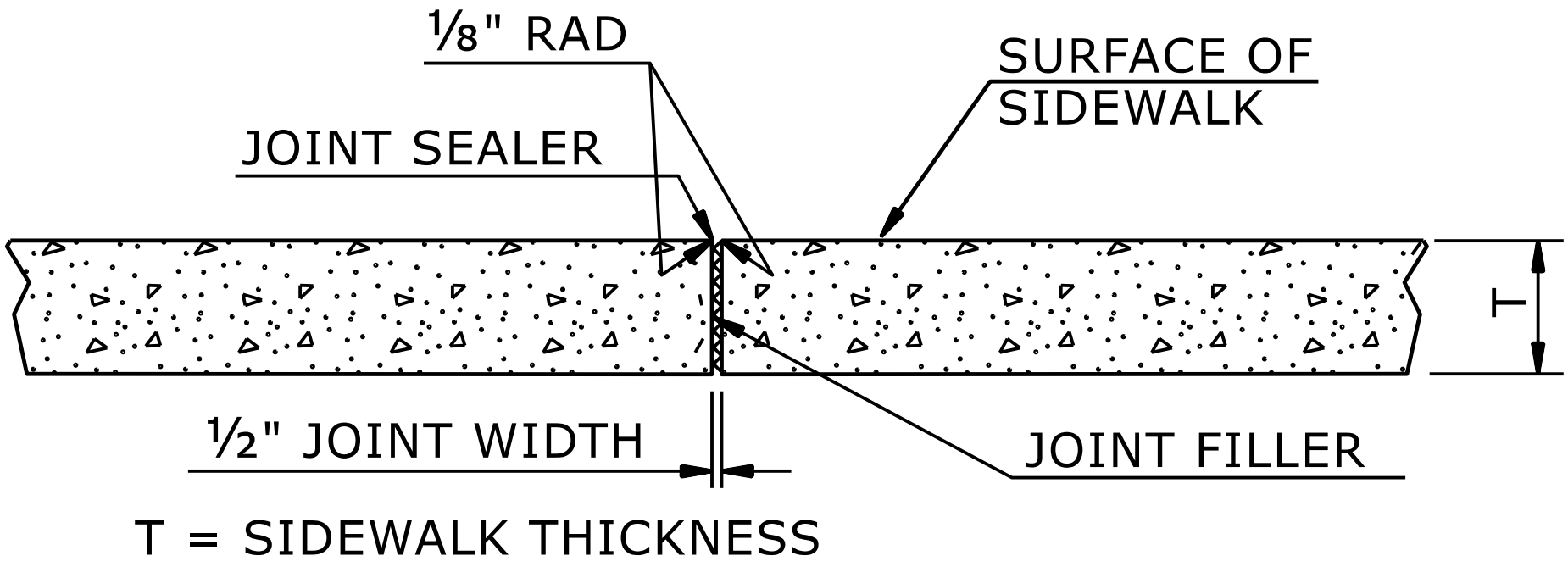
PROJECT REFERENCE NO.	SHEET NO.
U-4758	2C-6

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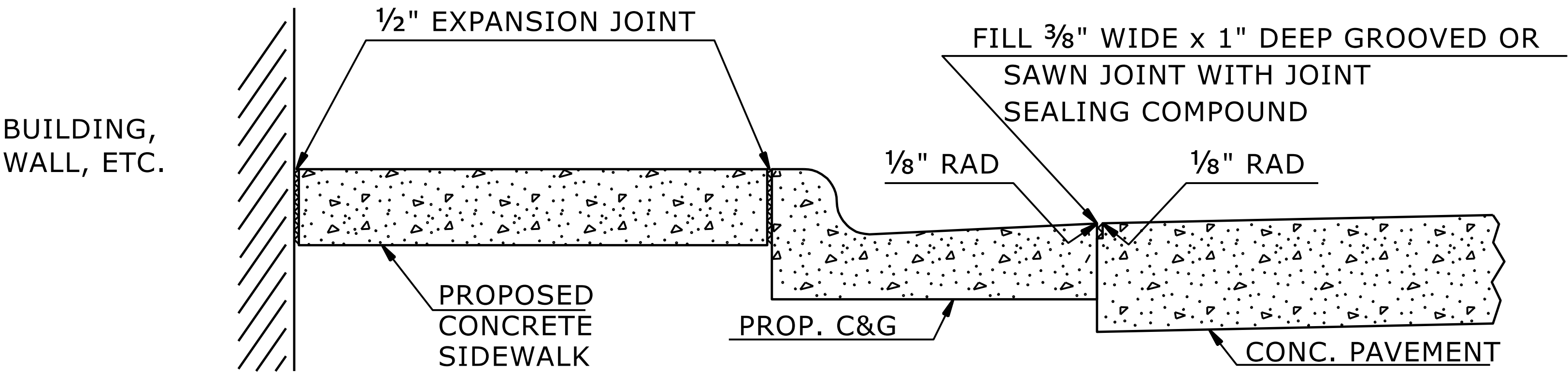
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

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.



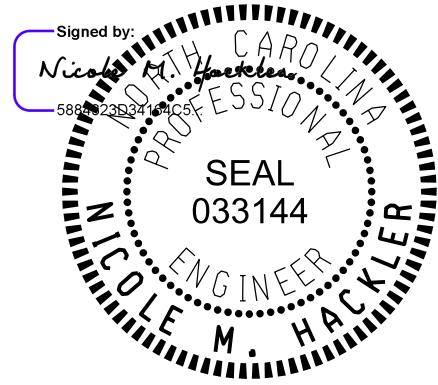
TRANSVERSE EXPANSION JOINT
IN SIDEWALK



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



5/22/2025

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:



	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.

Signed by: Nicole M. Hackie
5884702-9284029

SEAL
033144
NORTH CAROLINA
PROFESSIONAL
ENGINEER
NICOLE M. HACKIE

5/22/2025

SHEET 2 OF 2
300.01

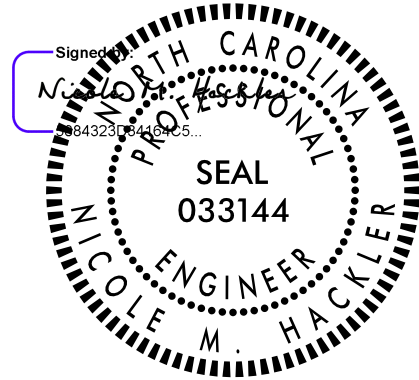
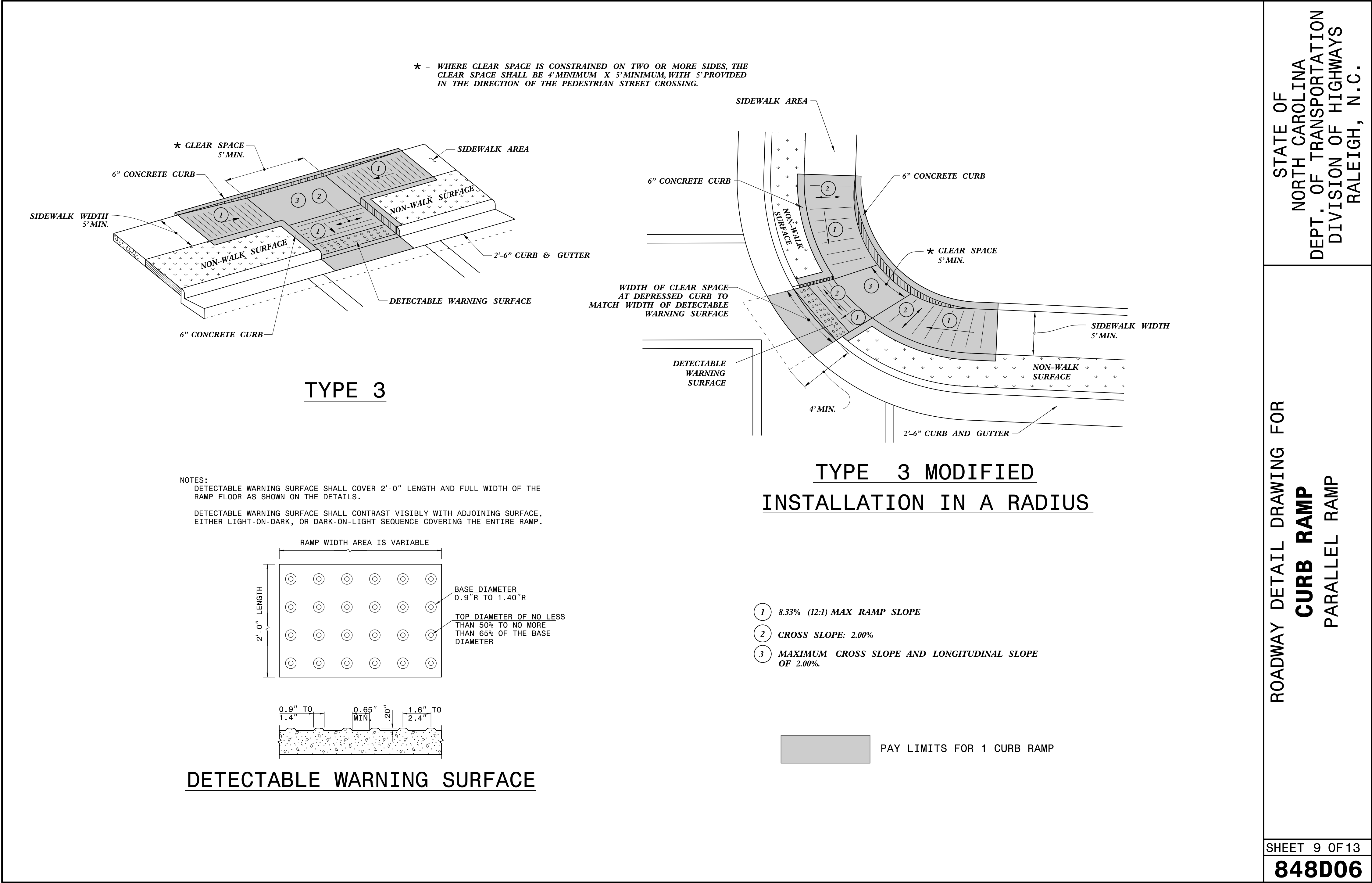
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
919-707-6950 FAX 919-250-4

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-4758	2C-9



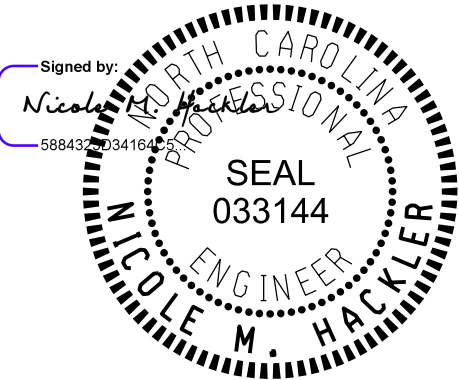
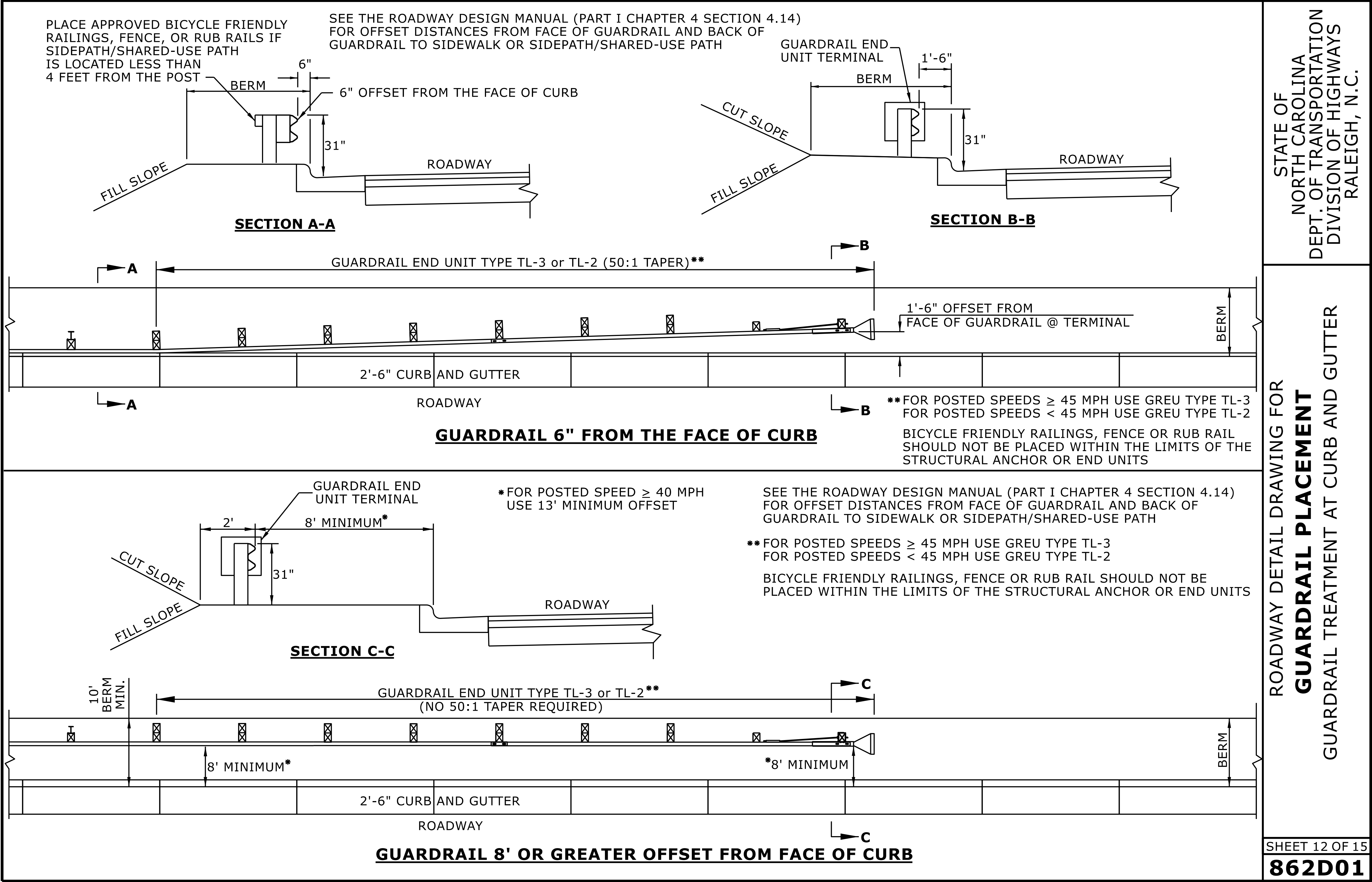
5/22/2025

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: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special_details\nmhackler\DO609.dgn



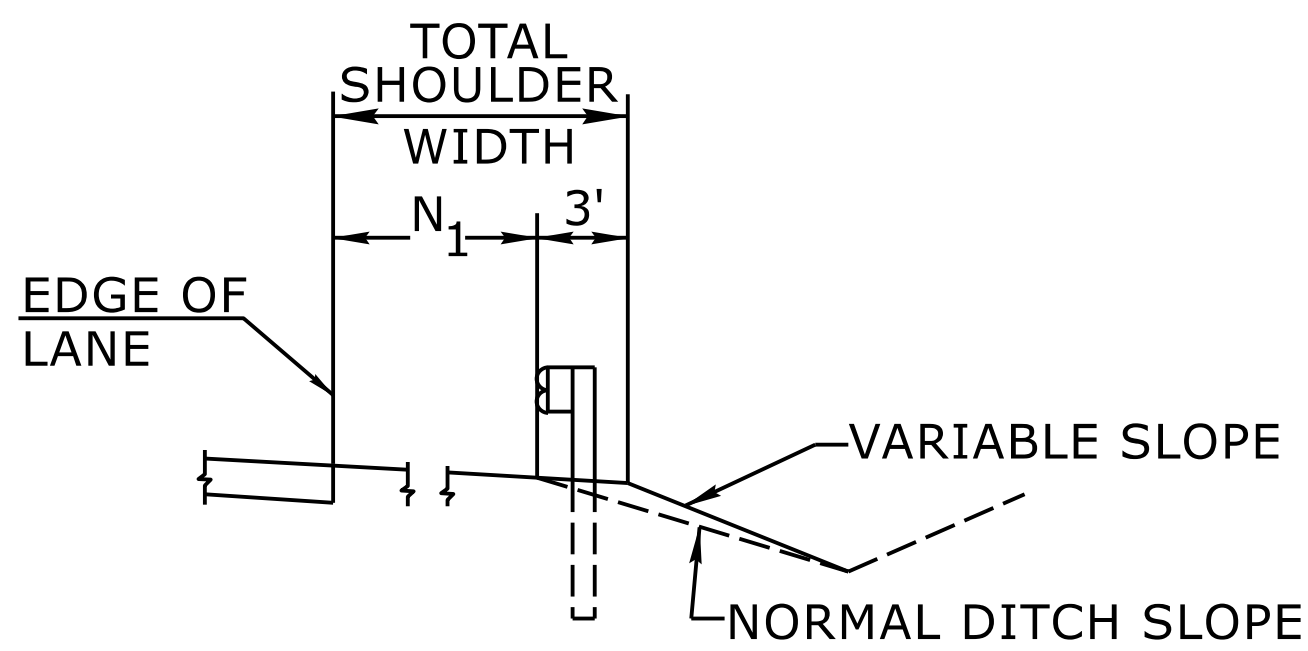
5/22/2025

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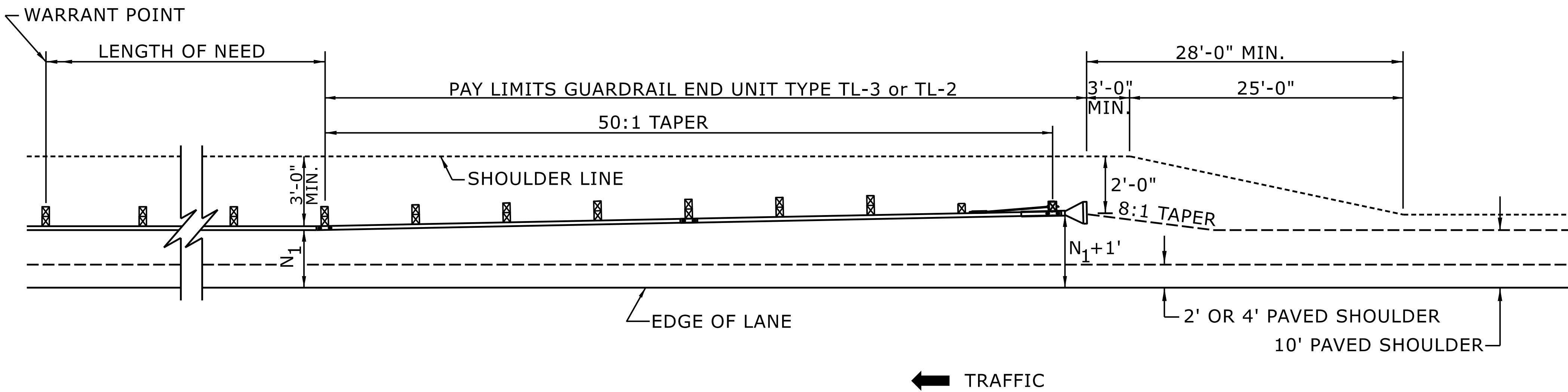
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CHECKED BY:	DATE:
FILE SPEC.:	



CUT SECTION

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



FOR POSTED SPEEDS $\geq$ 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

Signed by: *Nicole M. Hackler*
586420033144



The seal is circular with a double-lined border. The outer ring contains the text "NORTH CAROLINA" at the top and "NICOLE M. HACKLER" at the bottom. The inner ring contains the text "PROFESSIONAL" at the top and "ENGINEER" at the bottom. In the center, the word "SEAL" is positioned above the license number "033144".

5/22/2025

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AND DEVELOPMENT UNIT**

Office 919-707-6950

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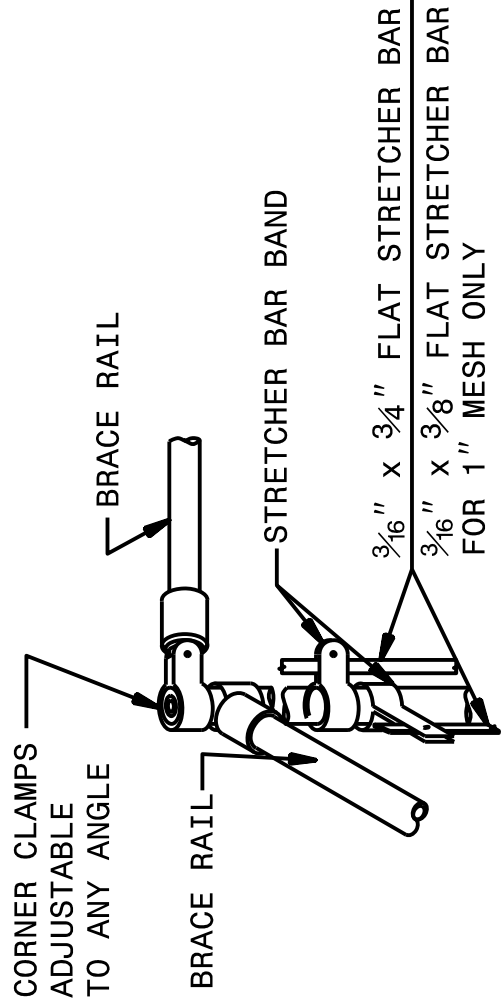
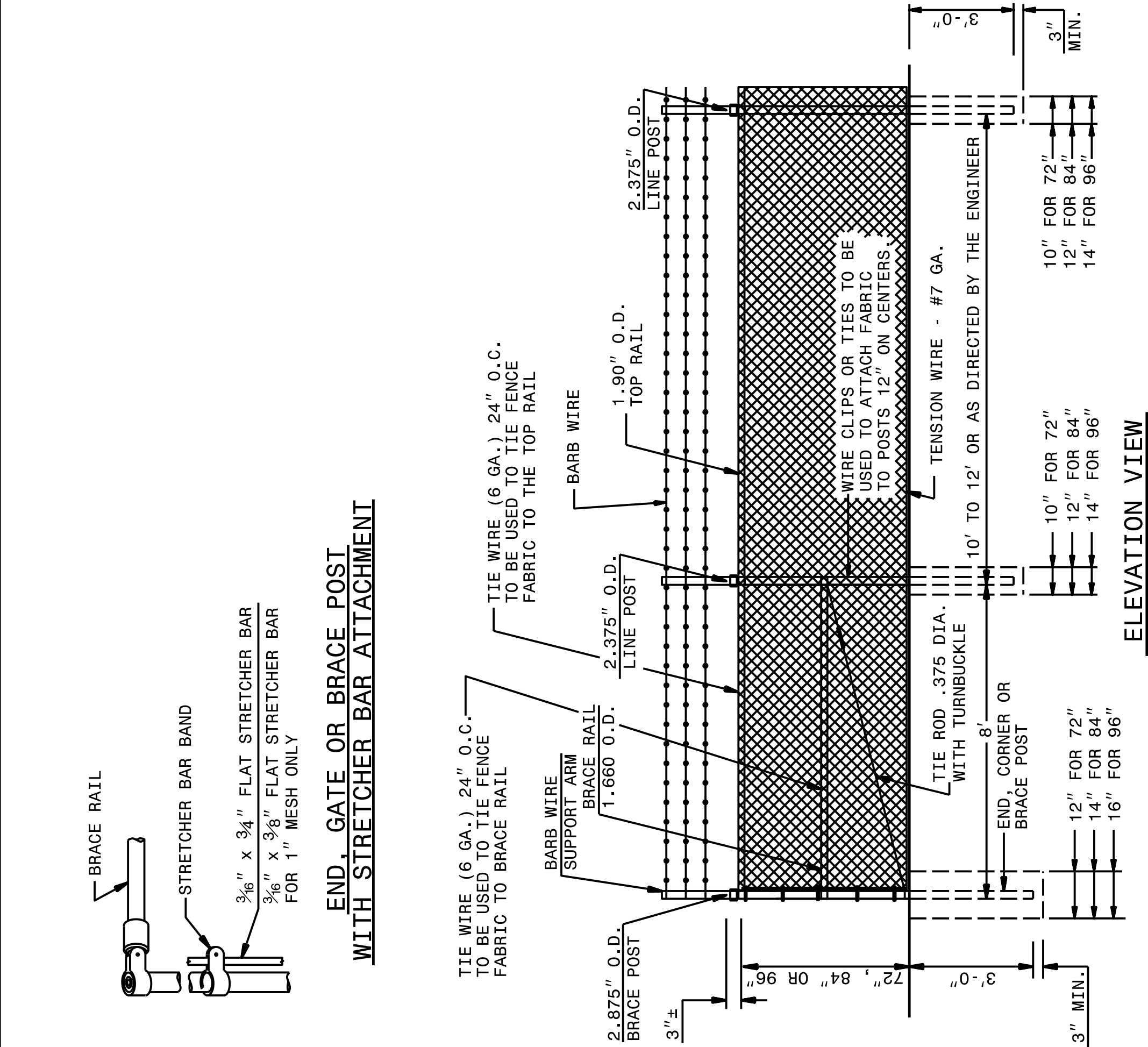
ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
 MODIFIED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: _____

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

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

ENGLISH DETAIL DRAWING FOR
CHAIN LINK FENCE WITH BARBED WIRE
6', 7' AND 8' HEIGHT

SHEET 1 OF 2
fence4c1



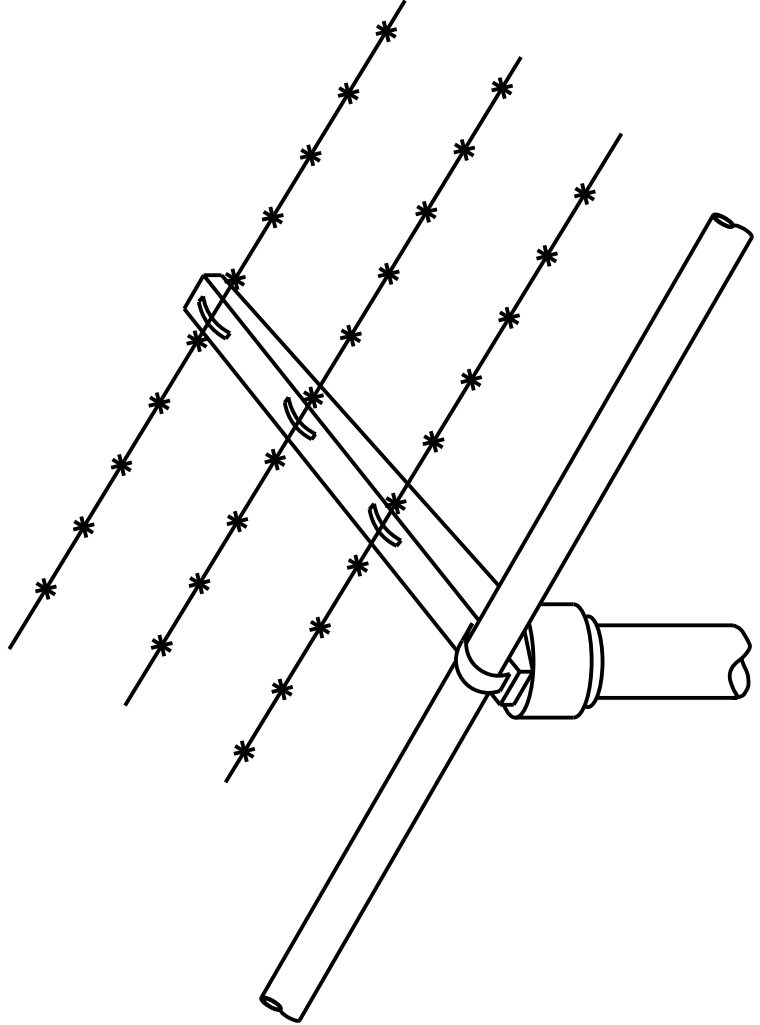
**END, GATE OR BRACE POST
WITH STRETCHER BAR ATTACHMENT**

**CORNER WITH STRETCHER
BAR ATTACHMENT**

ENGLISH DETAIL DRAWING FOR
CHAIN LINK FENCE WITH BARBED WIRE
6', 7' AND 8' HEIGHT

ELEVATION VIEW

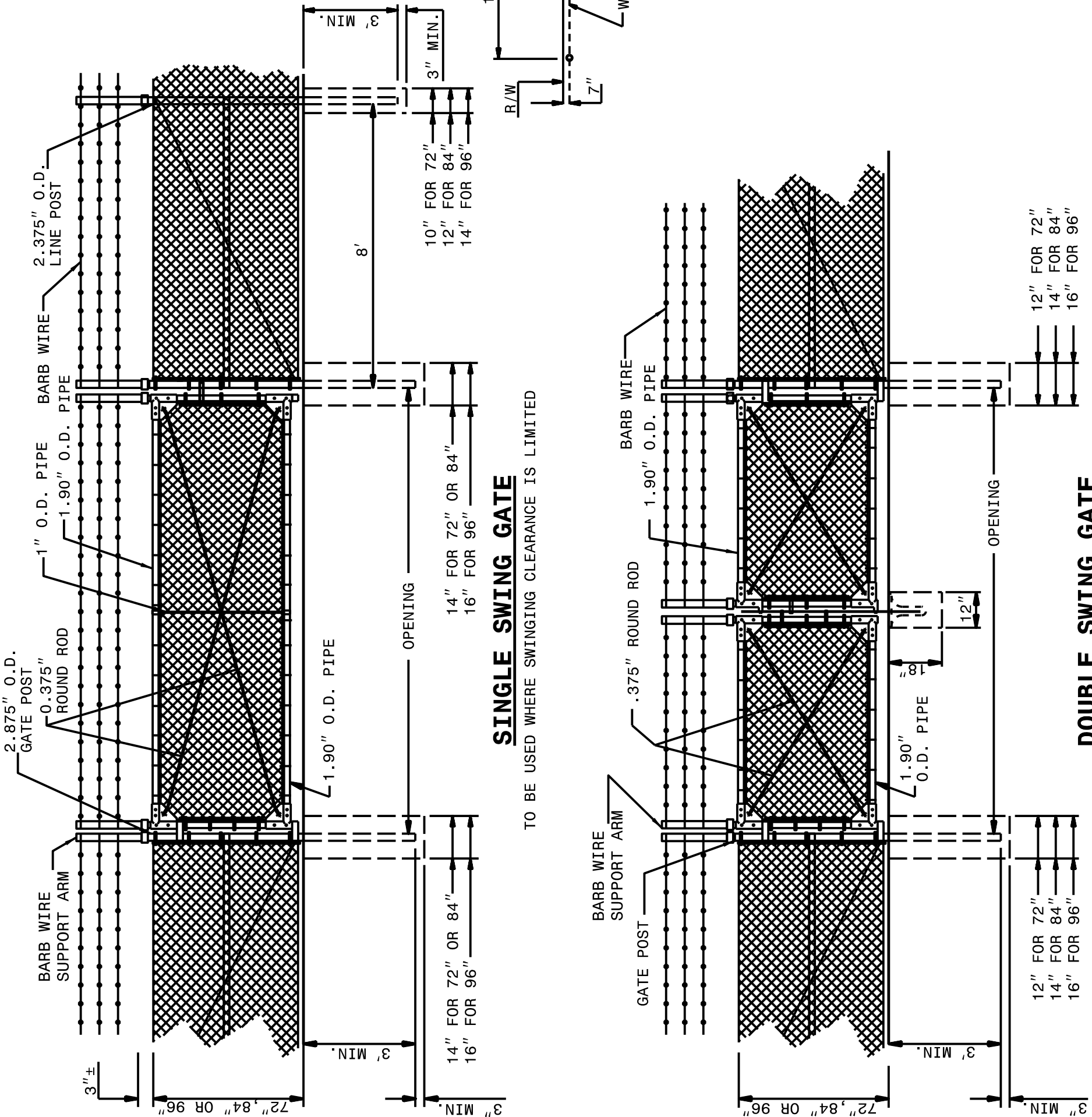
**BARBED WIRE FENCE
SUPPORT ARM**



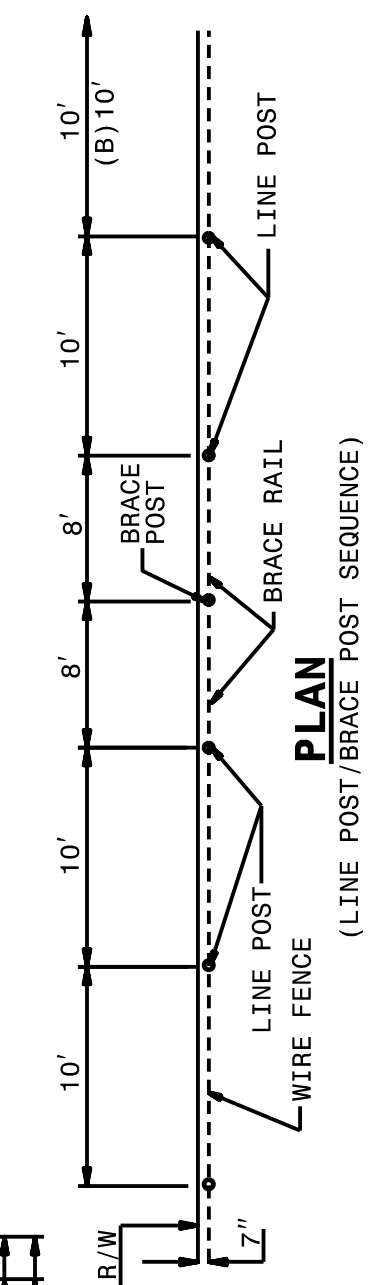
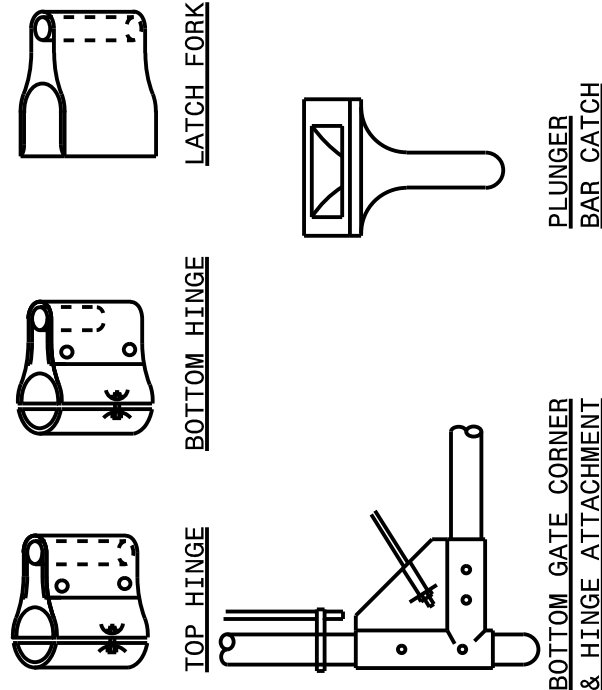
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
CHAIN LINK FENCE WITH BARBED WIRE
6', 7' AND 8' HEIGHT

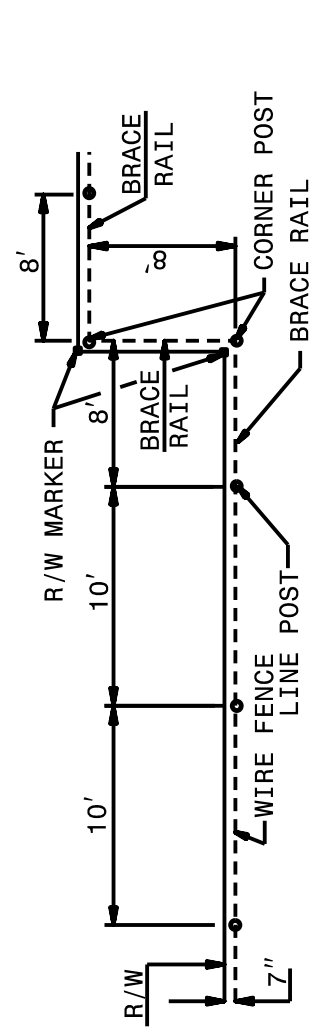
SHEET 2 OF 2
fence4c1



NOTE: FENCE HARDWARE VARIES DUE TO
DIFFERING MANUFACTURERS SUPPLIES.

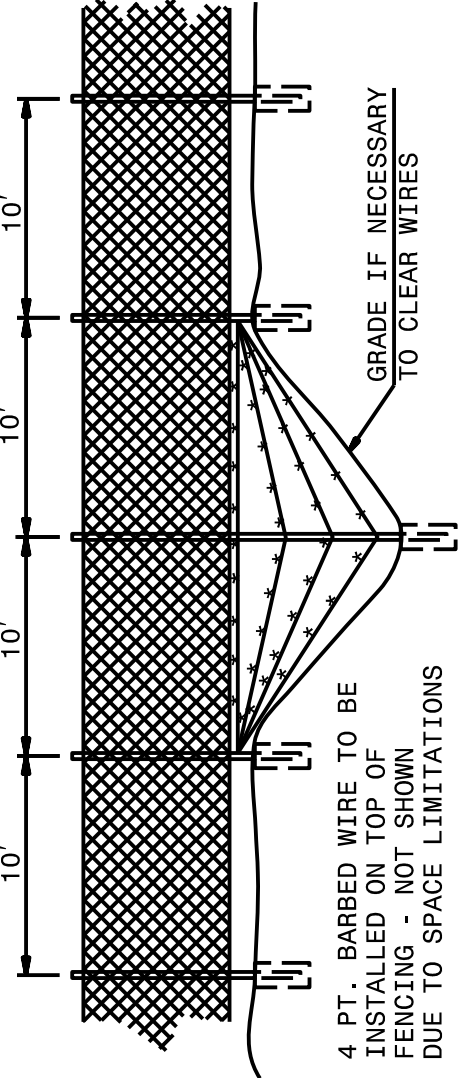


PLAN
(LINE POST/BRACE POST SEQUENCE)



PLAN

PLACEMENT OF FENCE ALONG RIGHT OF WAY
(ALL CORNER POSTS ARE TO BE BRACED AS SHOWN ABOVE)



MAXIMUM WIRE SPACING TO BE 6".
MAXIMUM CLEARANCE BETWEEN LOWEST STRAND AND GROUND TO BE 6".
BRACE POSTS SHALL BE ERRECTED BETWEEN END, CORNER OR GATE POSTS AT
INTERVALS NOT EXCEEDING 700' ON TANGENTS OR 350' ON SHORT RADIUS CURVES.
ADDITIONAL BRACE POSTS SHALL BE ERRECTED IF SO DIRECTED BY THE ENGINEER.
BRACE POSTS SHALL BE BRACED FROM BOTH SIDES OF POST.

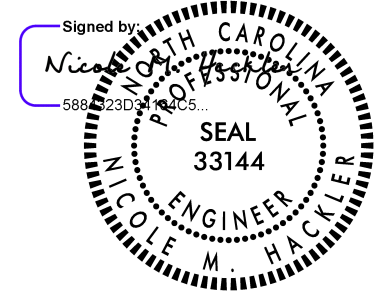
DETAIL OF DITCH CROSSING

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

SEE PLATE FOR TITLE

ORIGINAL BY: N.T. KEGLERS DATE: MAR. 11, 1996
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

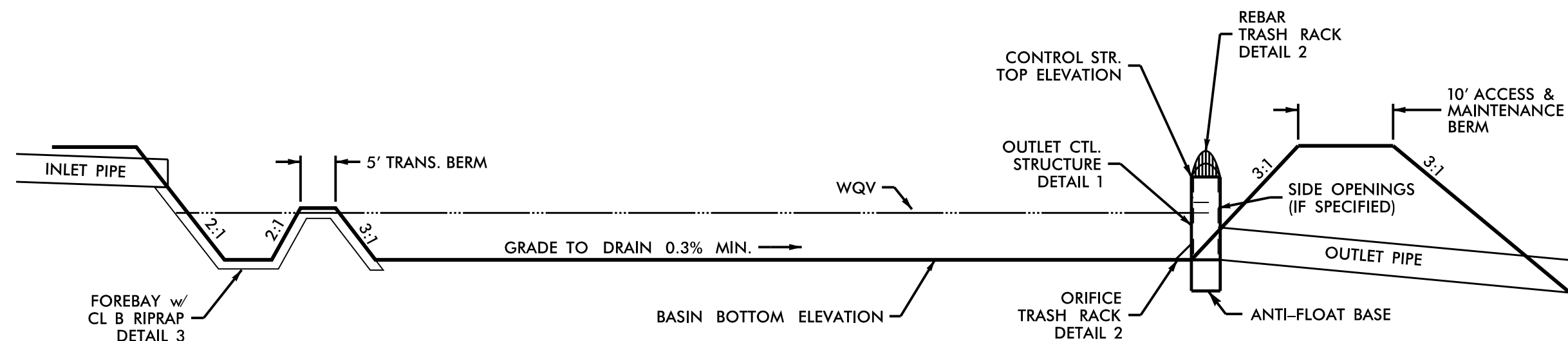
5/22/2025



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8/17/99

DRY DETENTION BASIN TYPICAL SECTION



PROJECT REFERENCE NO.

U-4758

SHEET NO.

2D-

HYDRAULIC DESIGN
ENGINEER

Signed by: _____

osher Dalton CAROLIA

1089AFCG1499TC3...

SEAL

26971

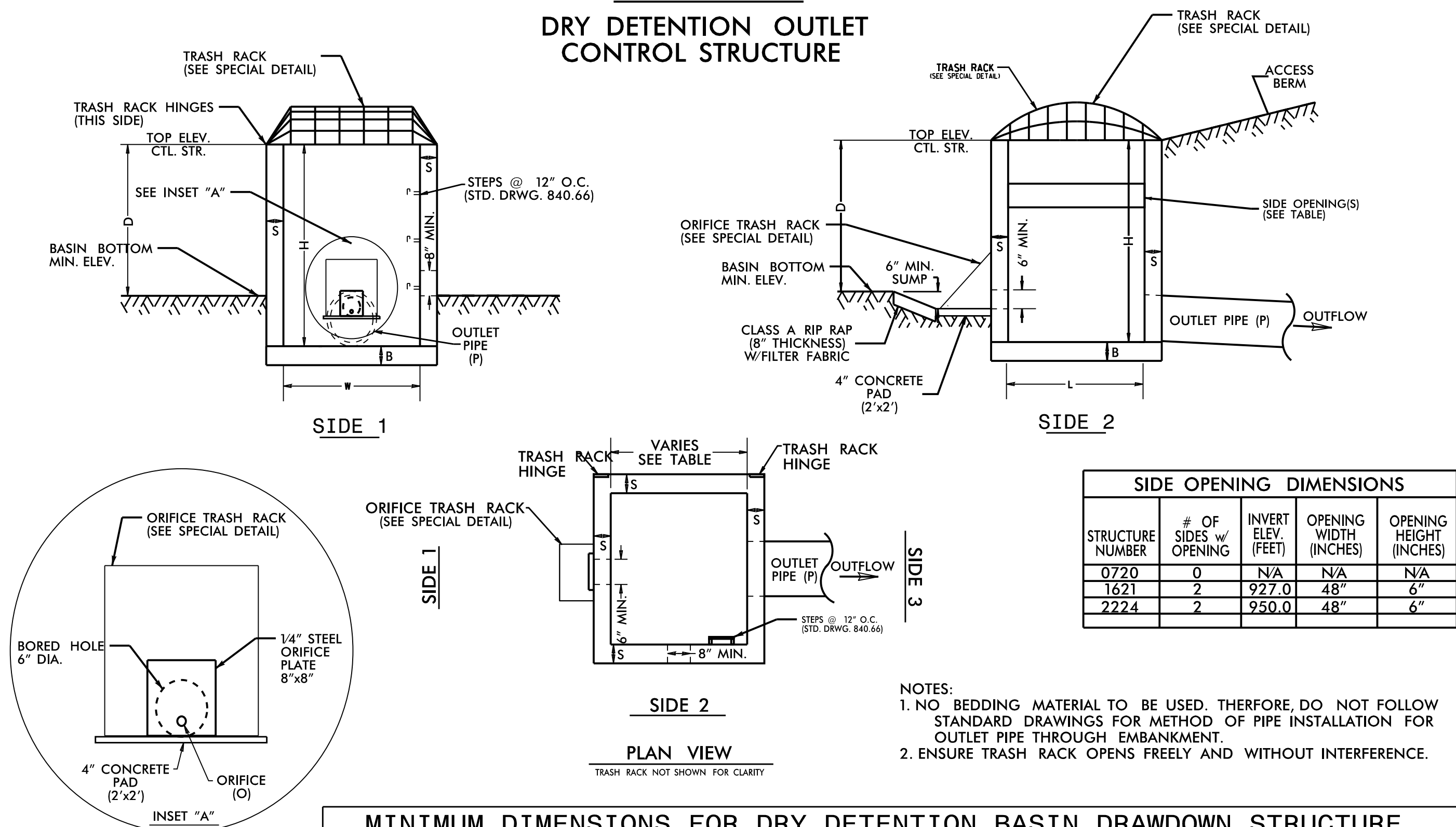
ENGINEER



30/2025

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DETAIL 1
**DRY DETENTION OUTLET
CONTROL STRUCTURE**



SIDE OPENING DIMENSIONS				
STRUCTURE NUMBER	# OF SIDES w/ OPENING	INVERT ELEV. (FEET)	OPENING WIDTH (INCHES)	OPENING HEIGHT (INCHES)
0720	0	N/A	N/A	N/A
1621	2	927.0	48"	6"
2224	2	950.0	48"	6"

[illegible]

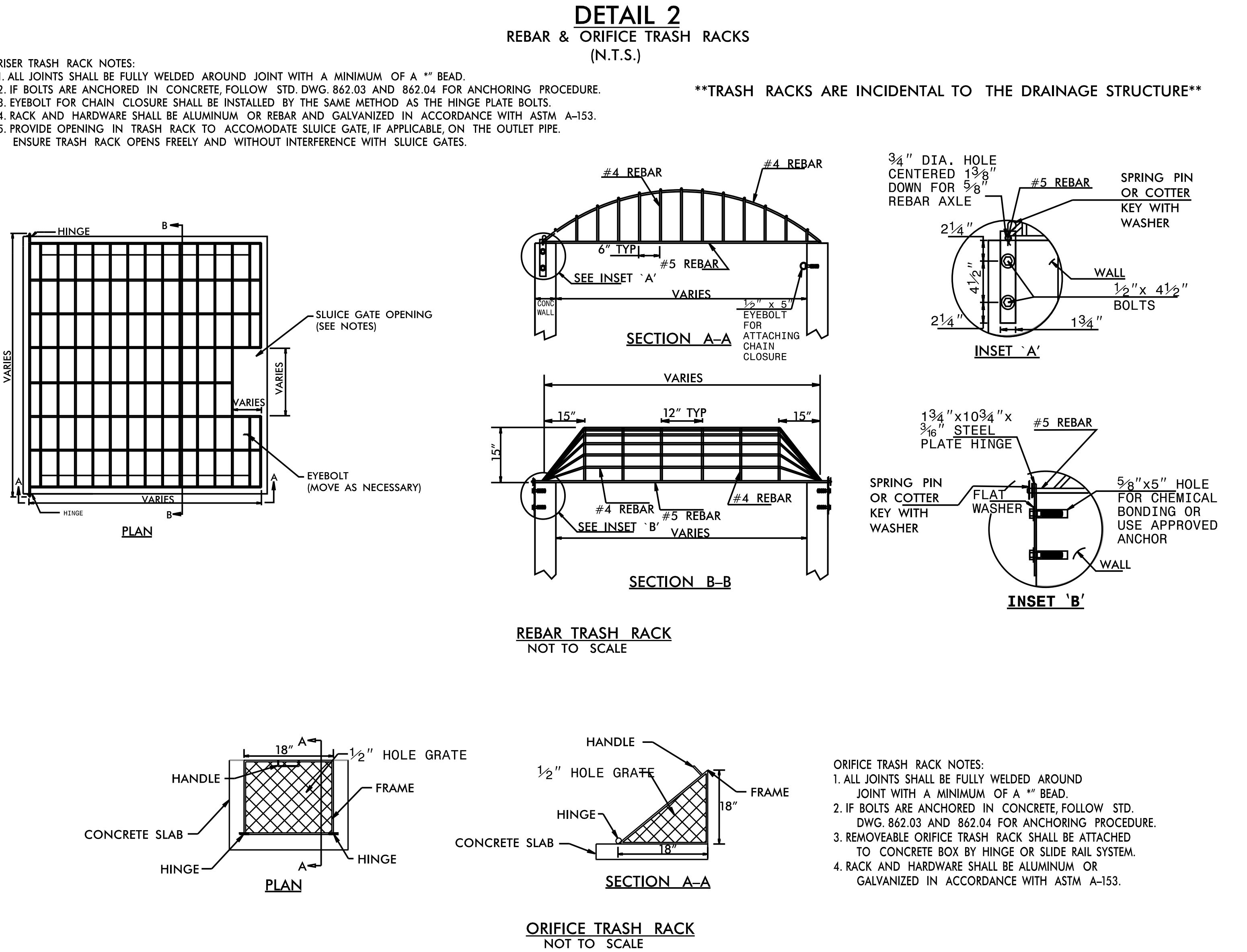
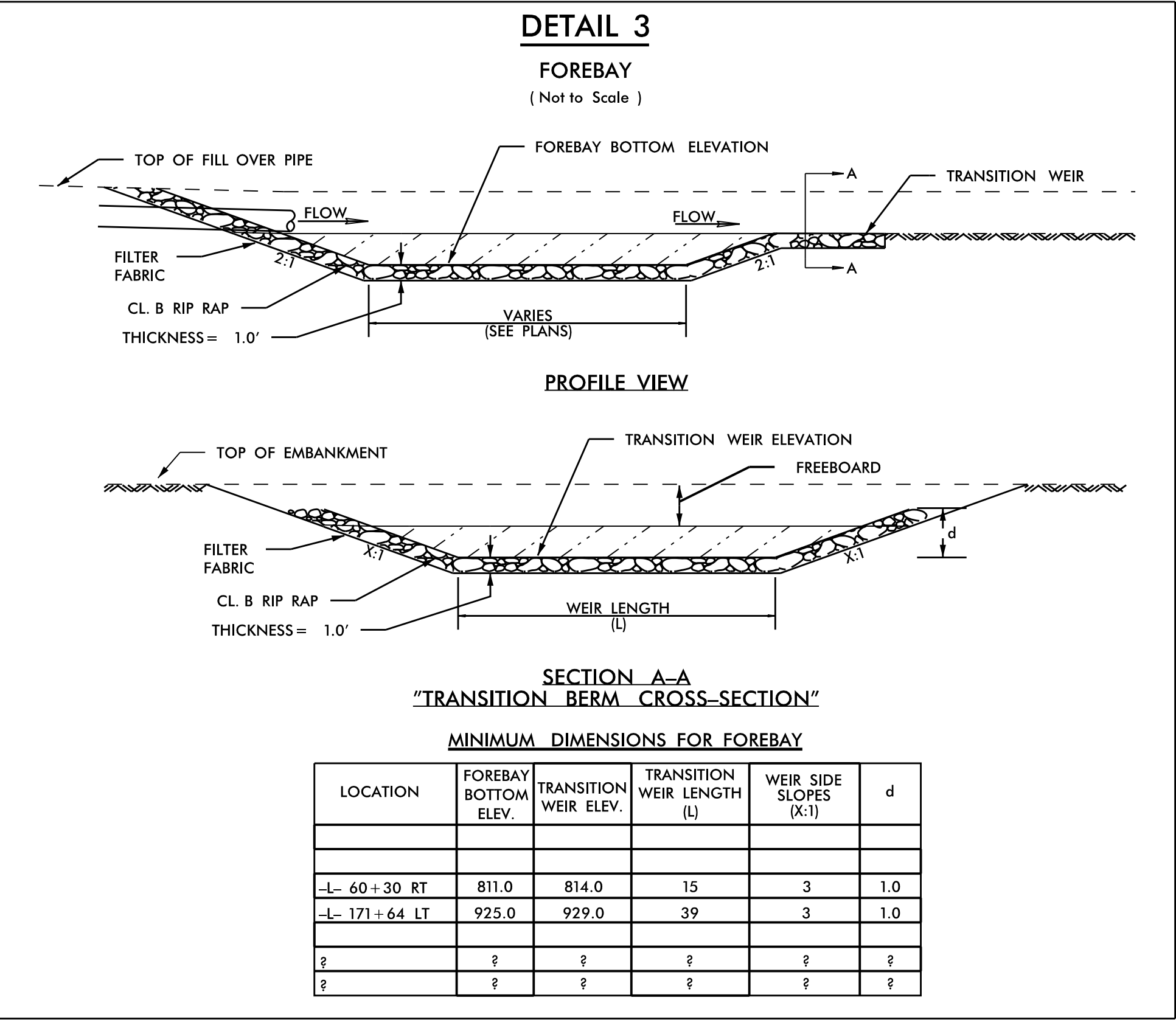
PROJECT REFERENCE NO.
U-4758

SHEET NO.
2D-2

HYDRAULIC DESIGN
ENGINEER

NORTH CAROLINA
Professional Seal
26971
ENGINEER
JOSHUA G. DALTON
6/19/2023

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1. PLACE GEOTEXTILE FOR EMBANKMENT STABILIZATION PERPENDICULAR TO THE CENTERLINE AS SHOWN ON THE CROSS SECTION A-A' AND CORRESPONDING PLAN VIEW.
2. PLACE GEOTEXTILE WITHOUT ANY WRINKLES OR CREASES.
3. NO SEAMS OR JOINTS ARE ALLOWED IN THE MACHINE DIRECTION OF GEOTEXTILE.
4. GEOTEXTILE FOR EMBANKMENT STABILIZATION SHEETS MUST HAVE A CONTINUOUS LENGTH AS SHOWN ON THE CROSS SECTION A-A'.
5. THE TERMS ROLL AND MACHINE DIRECTION ARE USED INTERCHANGEABLY.
6. ALL JOINTS IN THE CROSS MACHINE DIRECTION MUST BE OVERLAPPED A MINIMUM OF 18 INCHES.
7. FOR GEOTEXTILE FOR EMBANKMENT STABILIZATION, SEE GEOTEXTILE FOR EMBANKMENT STABILIZATION SPECIAL PROVISION.

PROJECT REFERENCE NO.

U-4758

SHEET NO.

2G-1

GEOTECHNICAL ENGINEER

SEAL

030944

ENGINEER

DocuSigned by

Matt Moler

6/27/2022

ENGINEER

SIGNATURE

DATE

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UNLESS ALL SIGNATURES COMPLETED

AREA OF HIGH STRENGTH GEOTEXTILE

AREA OF GEOTEXTILE FOR SIDE SLOPE STABILIZATION - MACHINE DIRECTION PERPENDICULAR TO CENTERLINE

AREA WHERE THE ABOVE 2 OVERLAP

PLAN VIEW FOR LIMITS OF GEOTEXTILE

PREPARED BY: J. SWARTLEY	DATE: 03/2019
REVIEWED BY: M. MOLER	DATE: 03/2019

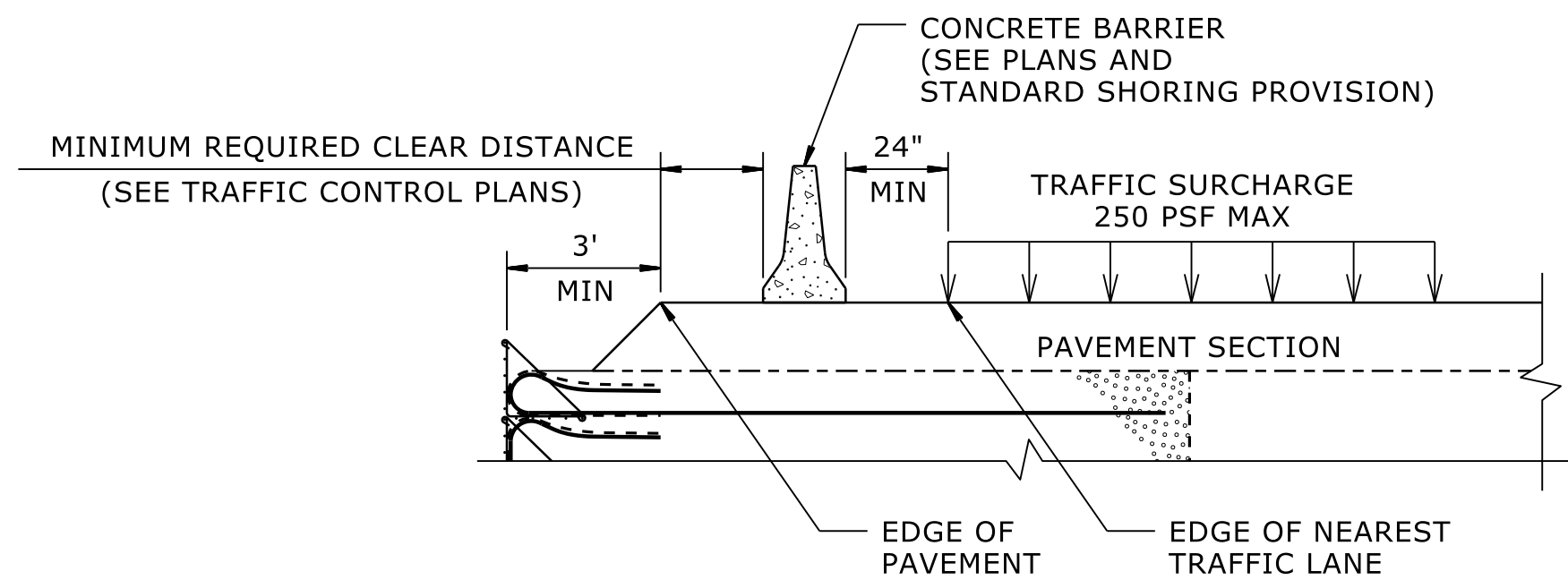
3201 SPRING FOREST ROAD
RALEIGH, NC 27616
(919) 872-2660

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

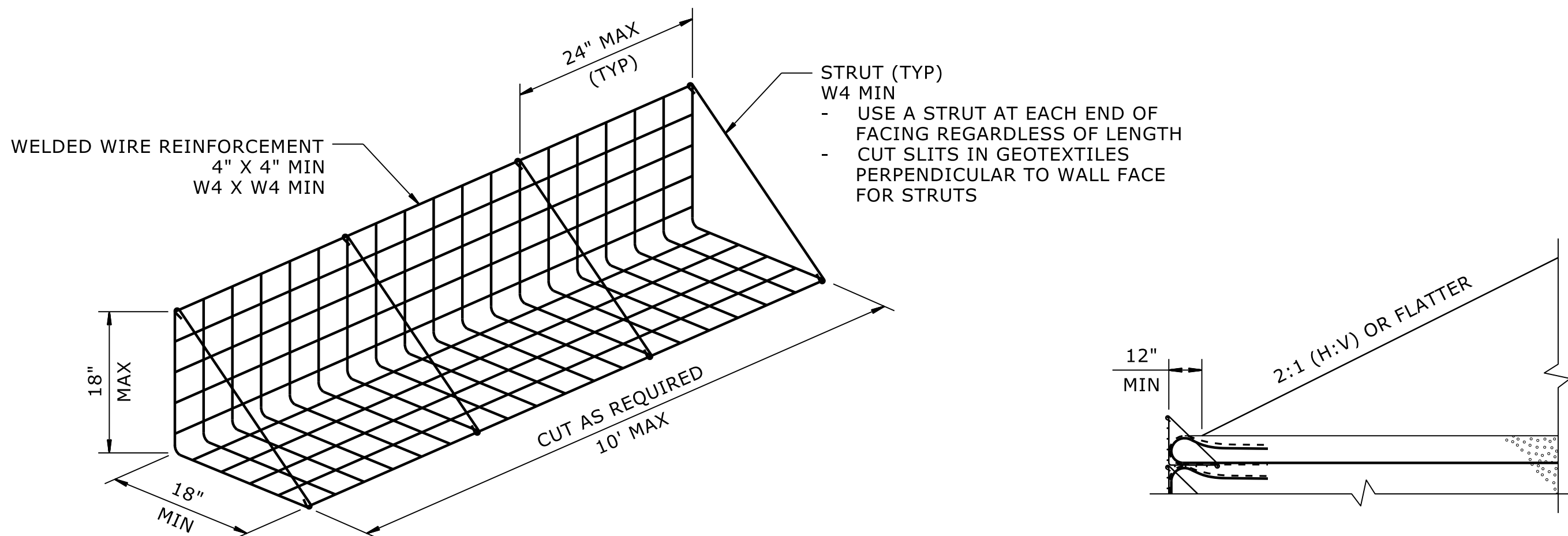
GEOTECHNICAL
ENGINEERING UNIT

GEOTEXTILE FOR EMBANKMENT
STABILIZATION DETAILS
(-L- 55+89 - 57+00)

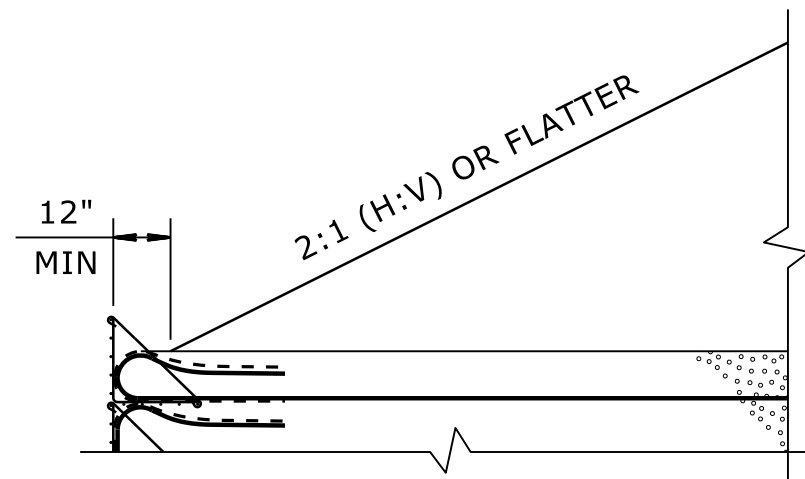
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		



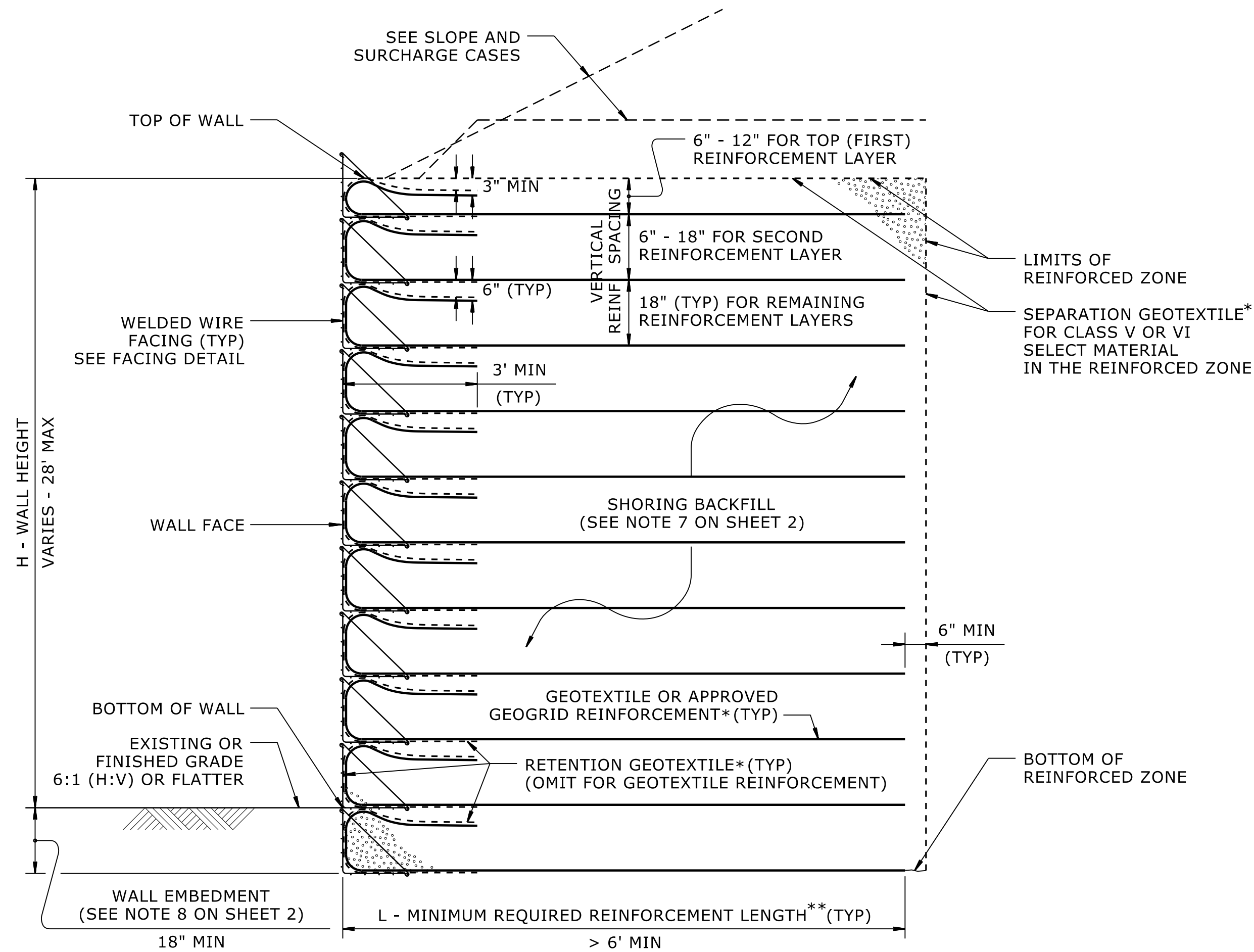
SURCHARGE CASE



FACING DETAIL



SLOPE CASE

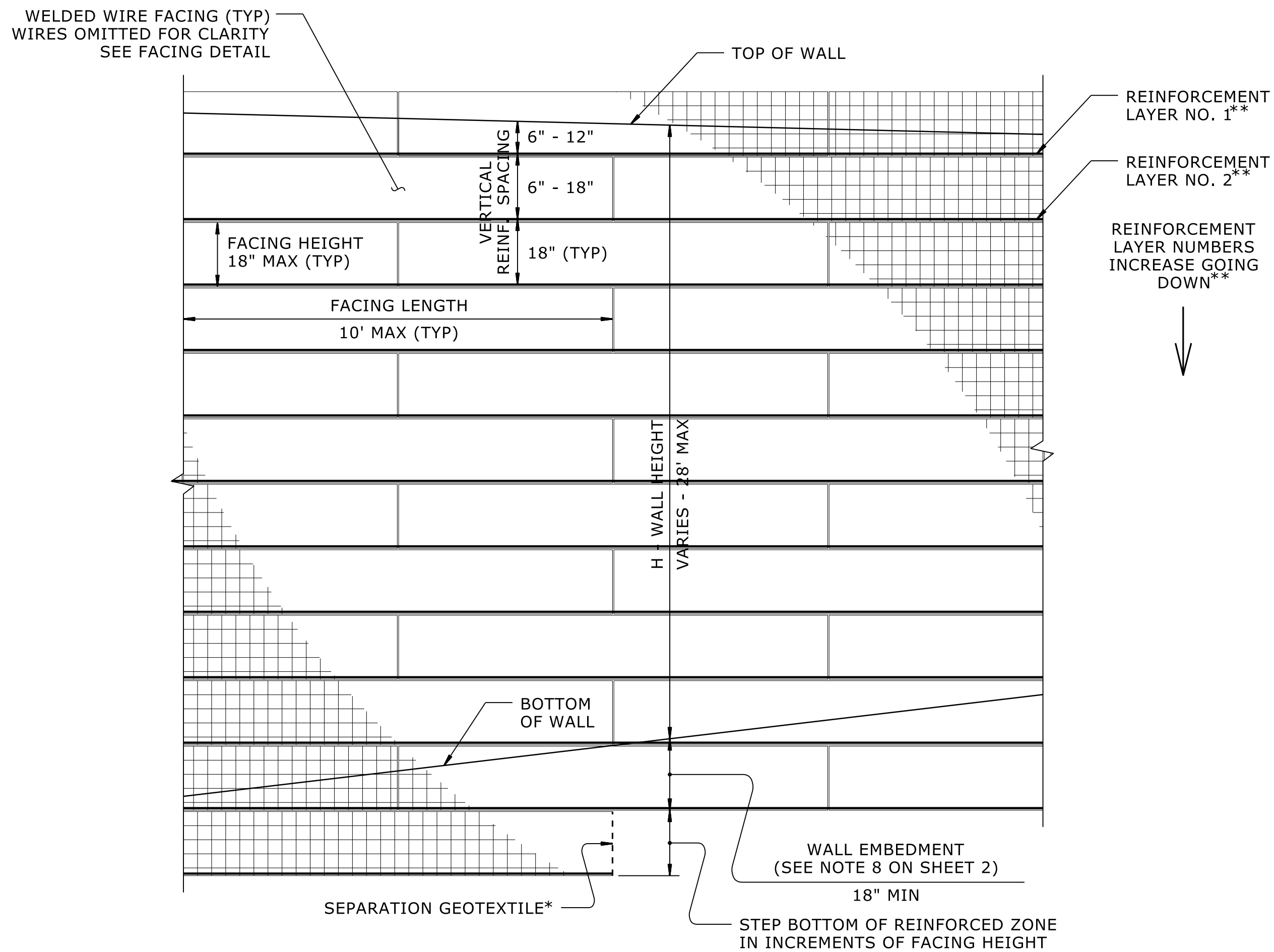


STANDARD TEMPORARY WALL

(FOR STANDARD TEMPORARY WALLS ON STRUCTURES,
SEE TEMPORARY WALL ON STRUCTURE DETAIL ON SHEET 2.)

*SEE GEOSYNTHETIC PLACEMENT DETAILS ON SHEET 2.

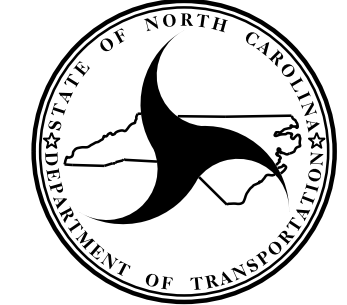
**SEE REINFORCEMENT TABLES ON SHEET 3.

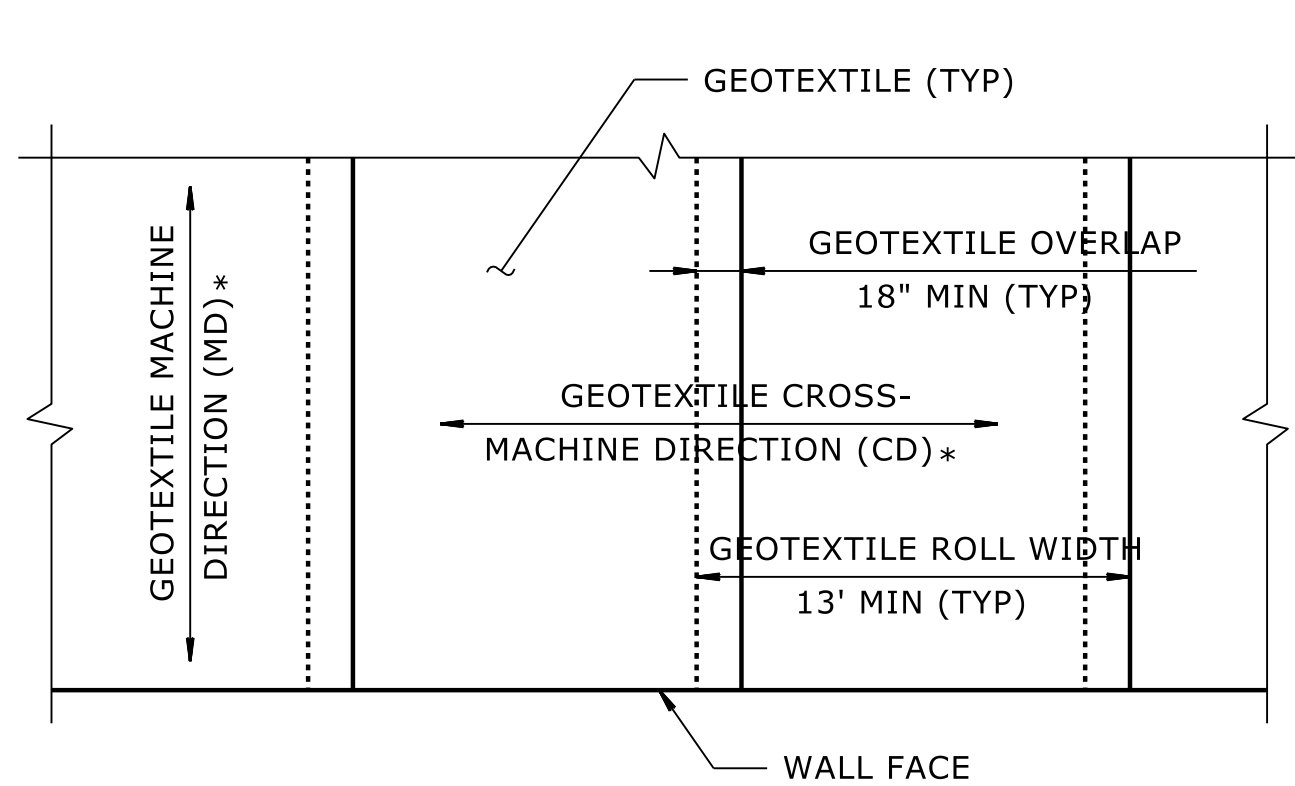


STANDARD TEMPORARY WALL - PARTIAL ELEVATION

*SEE GEOSYNTHETIC PLACEMENT DETAILS ON SHEET 2.

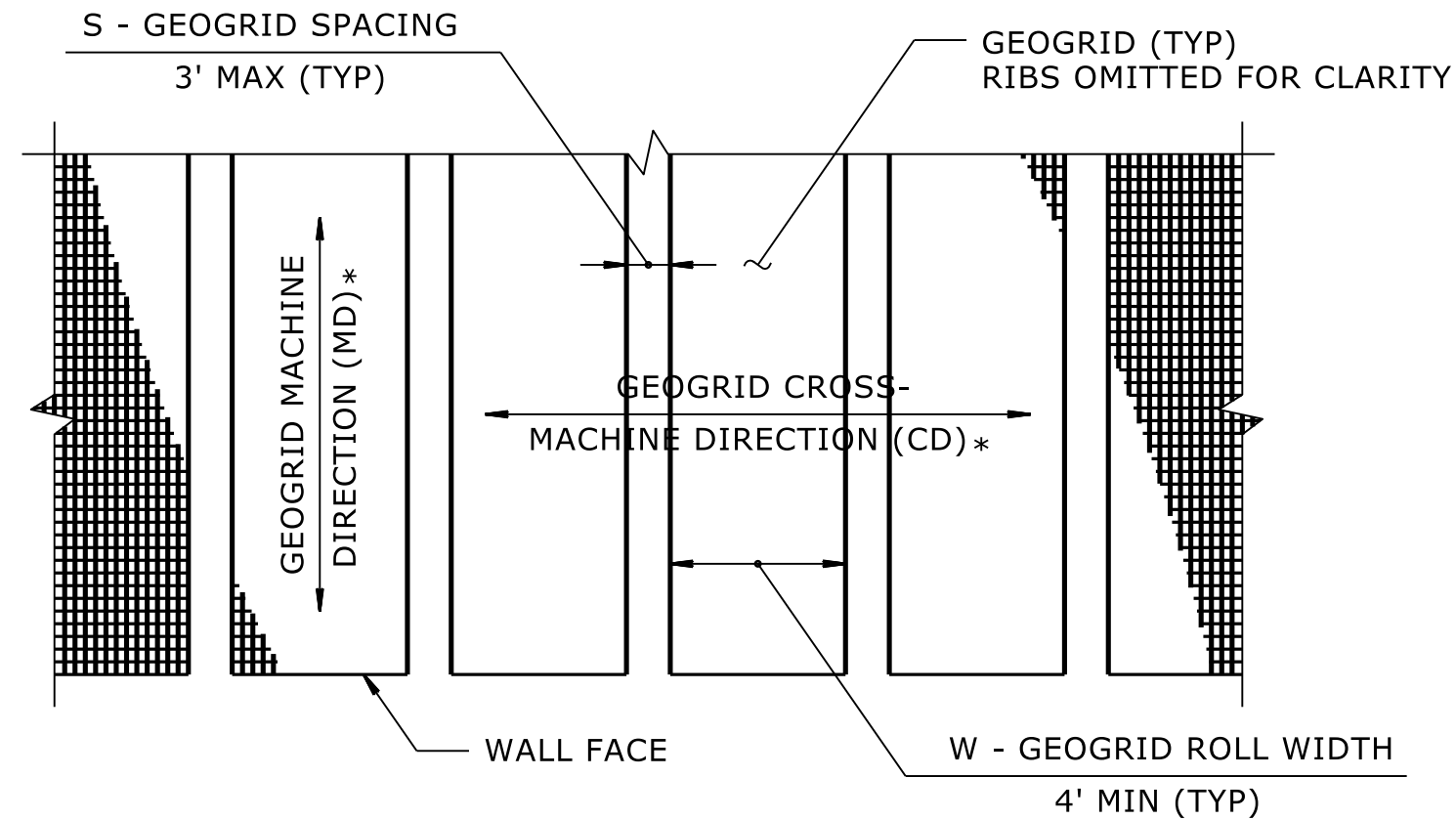
**SEE REINFORCEMENT TABLES ON SHEET 3.





GEOTEXTILE PLACEMENT

(100% COVERAGE MIN FOR
GEOTEXTILE REINFORCEMENT)

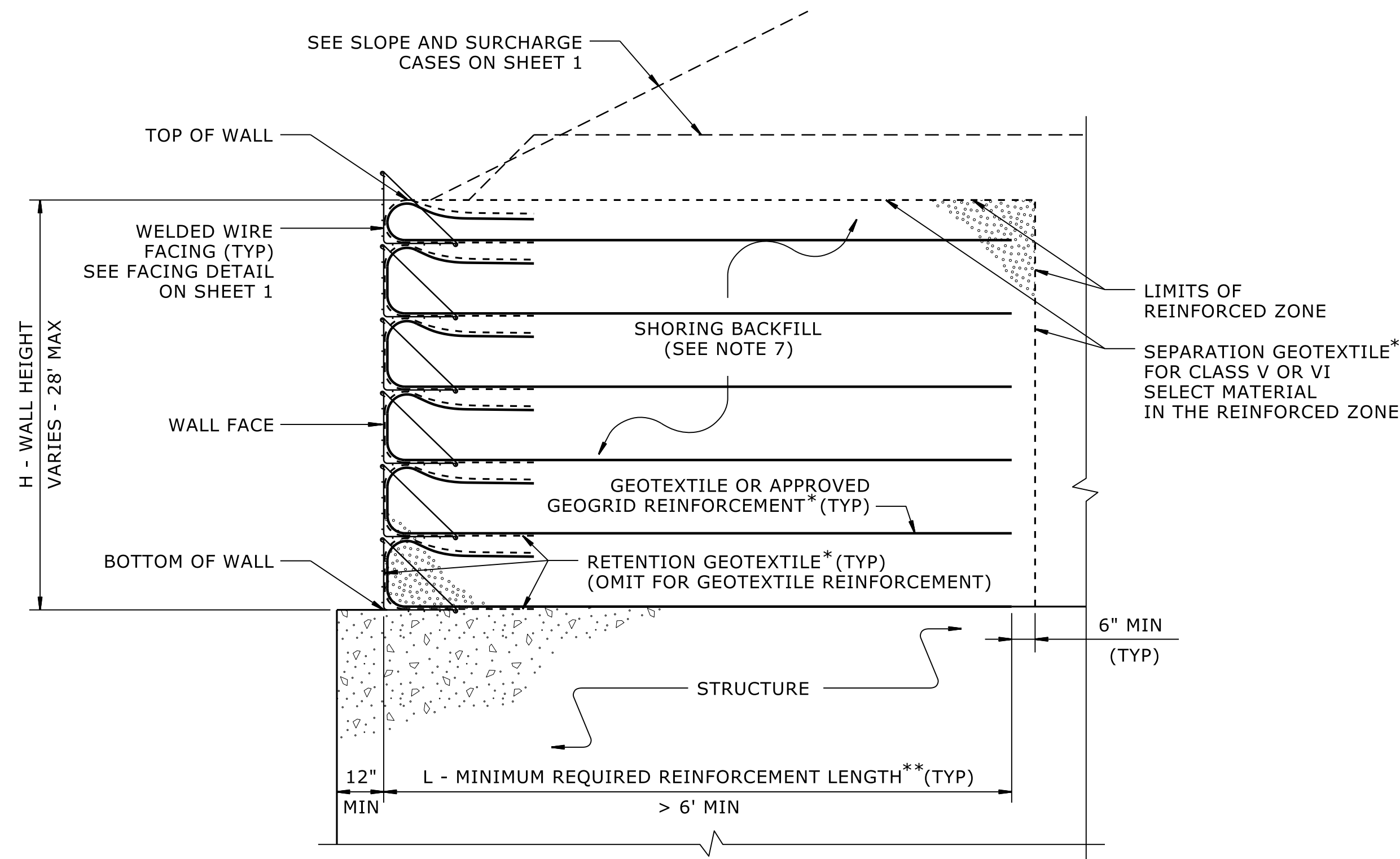


GEOGRID PLACEMENT

(80% COVERAGE MIN FOR
GEOGRID REINFORCEMENT -
 $\frac{W}{W+S} \times 100 \geq 80\%$,
SEE NOTE 11)

GEOSYNTHETIC PLACEMENT DETAILS

(PLAN VIEW)
*SEE NOTE 12.



TEMPORARY WALL ON STRUCTURE DETAIL

*SEE GEOSYNTHETIC PLACEMENT DETAILS.
**SEE REINFORCEMENT TABLES ON SHEET 3.

NOTES:

1. AT THE CONTRACTOR'S OPTION, USE STANDARD TEMPORARY WALLS AS NOTED IN THE PLANS.
2. FOR STANDARD TEMPORARY WALLS, SEE STANDARD SHORING PROVISION.
3. STANDARD TEMPORARY WALLS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
UNIT WEIGHT, $\gamma = 120$ PCF
FRICTION ANGLE, $\phi = 30$ DEGREES
COHESION, $c = 0$ PSF
4. DO NOT USE STANDARD TEMPORARY WALLS IF ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE.
5. DO NOT USE STANDARD TEMPORARY WALLS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW TEMPORARY WALLS.
6. USE GROUNDWATER ELEVATION NOTED IN THE PLANS. IF NO GROUNDWATER ELEVATION IS SHOWN IN THE PLANS, ASSUME GROUNDWATER DEPTH IS LESS THAN 7' BELOW BOTTOM OF REINFORCED ZONE. DO NOT USE STANDARD TEMPORARY WALLS IF GROUNDWATER OR FLOOD ELEVATION IS ABOVE BOTTOM OF REINFORCED ZONE.
7. DO NOT USE A-2-4 SOIL FOR STANDARD TEMPORARY WALLS AROUND CULVERTS OR IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS FOR SLOPE CASES. DO NOT USE CLASS VI SELECT MATERIAL IN THE REINFORCED ZONE OF STANDARD TEMPORARY WALLS WITH GEOTEXTILE REINFORCEMENT.
8. WALL EMBEDMENT IS NOT REQUIRED FOR STANDARD TEMPORARY WALLS ON STRUCTURES OR ROCK AS DETERMINED BY THE ENGINEER.
9. DO NOT USE MORE THAN 4 DIFFERENT REINFORCEMENT STRENGTHS FOR EACH STANDARD TEMPORARY WALL.
10. GEOGRIDS FOR GEOGRID REINFORCEMENT ARE APPROVED FOR SHORT TERM DESIGN STRENGTHS (3-YEAR DESIGN LIFE) IN THE MD AND CD BASED ON MATERIAL TYPE. THE LIST OF APPROVED GEOGRIDS WITH DESIGN STRENGTHS IS AVAILABLE FROM: connect.ncdot.gov/resources/Geological/Pages/Products.aspx
DEFINE MATERIAL TYPE FROM THE WEBSITE ABOVE FOR SHORING BACKFILL AS FOLLOWS:

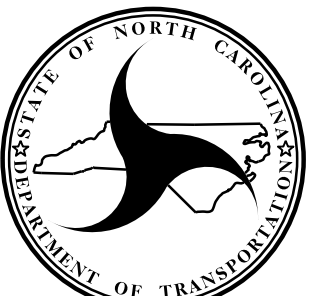
MATERIAL TYPE	SHORING BACKFILL
BORROW	A-2-4 SOIL
FINE AGGREGATE	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL
COARSE AGGREGATE	CLASS V OR VI SELECT MATERIAL

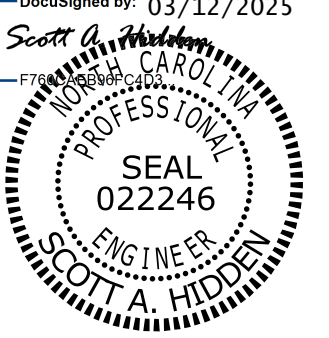
11. FOR GEOGRID REINFORCEMENT WITH LESS THAN 100% COVERAGE, STAGGER REINFORCEMENT SO GEOGRIDS ARE CENTERED OVER GAPS IN THE REINFORCEMENT LAYER BELOW.
12. AT THE CONTRACTOR'S OPTION, REINFORCEMENT MAY BE INSTALLED WITH THE MD PARALLEL TO THE WALL FACE IF BOTH OF THE FOLLOWING CONDITIONS OCCUR:
- W (REINFORCEMENT ROLL WIDTH) > (MINIMUM REQUIRED REINFORCEMENT LENGTH) + 4.5' AND
- REINFORCEMENT STRENGTH IN CD > MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD.
13. SUBMIT A "STANDARD TEMPORARY WALL SELECTION FORM" AT LEAST 7 DAYS BEFORE STARTING TEMPORARY WALL CONSTRUCTION. STANDARD SHORING SELECTION FORMS ARE AVAILABLE FROM: connect.ncdot.gov/resources/Geological/Pages/Geotech_Forms_Details.aspx
14. DO NOT PLACE SHORING BACKFILL OR REINFORCEMENT UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
15. FOR STANDARD TEMPORARY WALLS WITH PILE FOUNDATIONS IN THE REINFORCED ZONE, DRIVE PILES THROUGH REINFORCEMENT AFTER CONSTRUCTING TEMPORARY WALLS.
16. DO NOT SPLICE OR OVERLAP REINFORCEMENT SO SEAMS ARE PARALLEL TO THE WALL FACE.
17. CONTACT THE ENGINEER WHEN EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FOUNDATIONS, PAVEMENTS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH REINFORCEMENT.
18. FOR STANDARD TEMPORARY WALLS WITH INTERIOR ANGLES LESS THAN 90 DEGREES, WRAP GEOSYNTHETICS AT ACUTE CORNERS AS DIRECTED BY THE ENGINEER.
19. FOR STANDARD TEMPORARY WALLS WITH TOP OF WALL WITHIN 5' OF FINISHED GRADE, REMOVE TOP FACING AND INCORPORATE TOP REINFORCEMENT LAYER INTO FILL WHEN PLACING FILL IN FRONT OF WALL.

U-4758

2G-3 -

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION


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ENGINEERING UNIT

GEOTECHNICAL
ENGINEER
DocuSigned by: 03/12/2025

SEAL
022246
SCOTT A. HIDDEL
ENGINEER

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STANDARD
DETAIL NO. 1801.02

GEOTECHNICAL STANDARD DETAIL FOR
TEMPORARY WALL (SHEET 2 OF 3)

SLOPE OR SURCHARGE CASE	GROUNDWATER DEPTH BELOW BOTTOM OF REINFORCED ZONE (SEE NOTE 6 ON SHEET 2) (FT)	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)	H - WALL HEIGHT (FT)																											
			< 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
SLOPE CASE	> 0	CLASS II, TYPE 1, CLASS III, CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	8	9	11	12	13	13	14	15	16	17	18	19	20	21	22	23	24	24	25	26	27	27			
SURCHARGE CASE	> 0 TO 7 FOR H < 20' > 0 TO 10 FOR H > 20'	ALL SHORING BACKFILL TYPES	6	7	7	8	8	9	9	10	11	11	12	12	13	14	14	15	16	17	17	18	19	19	20	21	22			
	> 7 FOR H < 20' > 10 FOR H > 20'	A-2-4 SOIL	6	6	7	8	8	9	9	10	11	11	12	12	13	14	14	15	16	16	17	18	18	19	20	20	21			
		CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	6	6	7	7	8	8	9	10	10	11	11	12	12	13	14	15	15	16	16	17	17	18	18	19	20			
		CLASS V OR CLASS VI SELECT MATERIAL	6	6	7	7	7	8	8	9	9	10	10	11	12	13	13	14	14	15	15	16	17	17	18	19	19			

L - MINIMUM REQUIRED REINFORCEMENT LENGTH (FT)
(FOR ALL REINFORCEMENT TYPES)

WALL HEIGHT (H) + WALL EMBEDMENT (FT)	NUMBER OF REINFORCEMENT LAYERS*
2.5 - 4	3
4 - 5.5	4
5.5 - 7	5
7 - 8.5	6
8.5 - 10	7
10 - 11.5	8
11.5 - 13	9
13 - 14.5	10
14.5 - 16	11
16 - 17.5	12
17.5 - 19	13
19 - 20.5	14
20.5 - 22	15
22 - 23.5	16
23.5 - 25	17
25 - 26.5	18
26.5 - 28	19
28 - 29.5	20

*BASED ON VERTICAL REINFORCEMENT SPACING SHOWN ON SHEET 1.

REINFORCEMENT LAYER NUMBER *	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)				
	SLOPE CASE		SURCHARGE CASE		
	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL	A-2-4 SOIL	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V SELECT MATERIAL
1	2400	2400	2400	2400	2400
2	2400	2400	2400	2400	2400
3	2400	2400	2400	2400	2400
4	2400	2400	2500	2400	2400
5	2500	2400	3000	2400	2400
6	3000	2400	3500	2800	2400
7	3500	2700	4000	3200	2600
8	4000	3100	4500	3600	2900
9	4500	3500	5000	4000	3200
10	5000	3900	5500	4400	3500
11	5500	4300	6000	4800	3800
12	6000	4700	6500	5200	4100
13	6500	5100	7000	5600	4400
14	7000	5400	7500	6000	4700
15	7500	5800	8000	6400	5000
16	8000	6200	8500	6800	5300
17	8500	6600	9000	7200	5600
18	9000	7000	9500	7600	5900
19	9500	7400	10000	8000	6200
20	10000	7800	10500	8400	6500

GEOTEXTILE REINFORCEMENT
ULTIMATE TENSILE STRENGTH (LB/FT)

MINIMUM REQUIRED REINFORCEMENT STRENGTH IN MD

(SEE NOTE 9 ON SHEET 2.)
*SEE PARTIAL ELEVATION ON SHEET 1 FOR REINFORCEMENT LAYER NUMBERING.

REINFORCEMENT LAYER NUMBER *	SHORING BACKFILL TYPE IN THE REINFORCED ZONE (SEE NOTE 7 ON SHEET 2)				
	SLOPE CASE		SURCHARGE CASE		
	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL	A-2-4 SOIL	CLASS II, TYPE 1 OR CLASS III SELECT MATERIAL	CLASS V OR CLASS VI SELECT MATERIAL
1	240	200	340	290	240
2	380	310	520	430	350
3	530	420	700	570	460
4	690	550	870	720	570
5	860	690	1050	860	680
6	1030	830	1220	1000	790
7	1200	970	1400	1150	900
8	1370	1110	1580	1290	1010
9	1550	1240	1750	1430	1120
10	1720	1380	1930	1580	1230
11	1890	1520	2100	1720	1340
12	2060	1660	2280	1860	1450
13	2240	1800	2450	2010	1560
14	2410	1940	2630	2150	1670
15	2580	2080	2800	2290	1780
16	2750	2220	2980	2440	1890
17	2930	2360	3160	2580	2000
18	3100	2500	3330	2720	2110
19	3270	2640	3510	2860	2220
20	3440	2780	3690	3000	2330

GEOGRID REINFORCEMENT
SHORT-TERM DESIGN STRENGTH (LB/FT)

(SEE NOTE 10 ON SHEET 2.)

U-4758

2G-4 -

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION


GEOTECHNICAL
ENGINEERING UNIT

GEOTECHNICAL
ENGINEER

DocuSigned by:
Scott A. Hiden 03/12/2025



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UNLESS ALL SIGNATURES COMPLETED

STANDARD
DETAIL NO. 1801.02

GEOTECHNICAL STANDARD DETAIL FOR
TEMPORARY WALL (SHEET 3 OF 3)

12/06/07

COMPUTED BY: C. RESTREPO	DATE: 05/07/25
CHECKED BY: B. PAYNE	DATE: 05/08/25

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-4758	3B-1

SUMMARY OF EARTHWORK
(UTILITY AREA I)

STATION	STATION	LOCATION	UNCL EXCAV.	UNDERCUT EXCAV.	EMBANK. + %	BORROW	WASTE
-L- Sta. 13 + 50.00	-L- Sta. 22 + 50.00	LT	1,423	0	2,657	1,234	0
-L- Sta. 100 + 75.00	-L- Sta. 116 + 50.00	LT, RT	4,270	0	2,410	0	1,860
-Y30- Sta. 10 + 50.00	-Y30- Sta. 11 + 50.00		218	0	38	0	180
-Y31- Sta. 10 + 50.00	-Y31- Sta. 11 + 00.00		16	0	198	182	0
WZTC PHASE I SUBTOTALS:			5,927	0	5,303	1,416	2,040
-L- Sta. 13 + 50.00	-L- Sta. 34 + 00.00	RT	3,614	900	5,765	2,151	900
-L- Sta. 34 + 00.00	-L- Sta. 54 + 50.00	RT	11,916	0	11,119	0	797
-L- Sta. 56 + 00.00	-L- Sta. 88 + 00.00	RT	597	0	43,164	42,567	0
WZTC PHASE II SUBTOTALS:			16,127	900	60,048	44,718	1,697
-L- Sta. 22 + 50.00	-L- Sta. 54 + 50.00	LT	2,495	0	16,705	14,210	0
-L- Sta. 56 + 00.00	-L- Sta. 88 + 00.00	LT	2,419	0	10,145	7,726	0
-L- Sta. 88 + 00.00	-L- Sta. 120 + 00.00	LT	4,728	175	11,587	6,859	175
-Y2- Sta. 12 + 50.00	-Y2- Sta. 13 + 00.00		83	0	12	0	71
-Y3- Sta. 10 + 00.00	-Y3- Sta. 11 + 00.00		117	0	17	0	99
-Y4- Sta. 11 + 50.00	-Y4- Sta. 12 + 50.00		186	0	7	0	179
-Y5- Sta. 18 + 00.00	-Y5- Sta. 19 + 00.00		360	150	31	0	479
-Y6- Sta. 10 + 50.00	-Y6- Sta. 14 + 00.00		571	0	1	0	570
WZTC PHASE III SUBTOTALS:			10,959	325	38,506	28,795	1,573
-L- Sta. 18 + 50.00	-L- Sta. 26 + 50.00	MED	15	0	899	884	0
-L- Sta. 29 + 00.00	-L- Sta. 36 + 00.00	MED	4	0	1,192	1,188	0
-L- Sta. 45 + 50.00	-L- Sta. 54 + 00.00	MED	7	0	1,405	1,398	0
-L- Sta. 56 + 50.00	-L- Sta. 65 + 50.00	MED	49	0	1,763	1,714	0
-L- Sta. 75 + 50.00	-L- Sta. 78 + 00.00	MED	0	0	614	614	0
-L- Sta. 83 + 00.00	-L- Sta. 100 + 75.00	RT, MED	685	0	4,013	3,328	0
-L- Sta. 116 + 50.00	-L- Sta. 120 + 00.00	RT	128	0	410	282	0
WZTC PHASE IV SUBTOTALS:			888	0	10,296	9,408	0
WZTC PHASING SUBTOTAL			33,901	1,225	114,153	84,337	5,309
WASTE IN LIEU OF BORROW						-4,084	-4,084
TOTALS:			33,901	1,225	114,153	80,252	1,225
REPLACE TOP SOIL ON BORROW PIT (5%)						4,013	
UTILITY AREA I SUBTOTALS:			33,901	1,225	121,798	84,265	1,225
UTILITY AREA I SAY:			34,000	1,225		84,300	

SUMMARY OF EARTHWORK
(UTILITY AREA II)

STATION	STATION	LOCATION	UNCL EXCAV.	UNDERCUT EXCAV.	EMBANK. + %	BORROW	WASTE
-L- Sta. 138 + 00.00	-L- Sta. 156 + 50.00	RT	867	0	3,018	2,151	0
WZTC PHASE I SUBTOTALS:			867	0	3,018	2,151	0
-L- Sta. 120 + 00.00	-L- Sta. 143 + 50.00	LT	6,162	125	1,030	0	5,257
-L- Sta. 143 + 50.00	-L- Sta. 167 + 00.00	LT	1,419	0	8,338	6,919	0
-L- Sta. 167 + 00.00	-L- Sta. 191 + 00.00	LT	5,025	0	12,812	7,787	0
-Y7- Sta. 12 + 00.00	-Y7- Sta. 12 + 50.00		51	0	4	0	47
-Y9- Sta. 14 + 00.00	-Y9- Sta. 14 + 50.00		43	0	0	0	43
-Y10- Sta. 10 + 00.00	-Y10- Sta. 15 + 00.00		234	0	908	674	0
-Y11- Sta. 10 + 50.00	-Y11- Sta. 16 + 00.00		1,739	0	654	0	1,085
-Y14- Sta. 10 + 00.00	-Y14- Sta. 11 + 50.00		394	0	144	0	250
WZTC PHASE III SUBTOTALS:			15,067	125	23,890	15,380	6,683
-L- Sta. 120 + 00.00	-L- Sta. 141 + 00.00	RT, MED	793	0	3,294	2,501	0
-L- Sta. 144 + 00.00	-L- Sta. 145 + 50.00	MED	9	0	102	93	0
-L- Sta. 155 + 50.00	-L- Sta. 173 + 50.00	RT, MED	1,966	0	4,466	2,500	0
-L- Sta. 173 + 50.00	-L- Sta. 191 + 00.00	RT, MED	2,030	0	1,823	0	207
-Y8- Sta. 10 + 50.00	-Y8- Sta. 23 + 00.00		4,304	300	1,928	0	2,676
-Y12- Sta. 12 + 00.00	-Y12- Sta. 16 + 50.00		657	0	148	0	509
-Y13- Sta. 11 + 00.00	-Y13- Sta. 16 + 00.00		1,853	0	671	0	1,182
-Y26- Sta. 10 + 50.00	-Y26- Sta. 14 + 50.00		1,073	0	5,202	4,129	0
WZTC PHASE IV SUBTOTALS:			12,685	300	17,634	9,223	4,574
WZTC PHASING SUBTOTAL			28,619	425	44,542	26,755	11,257
UNSUITABLE EXCAVATION			2,210				2,210
WASTE IN LIEU OF BORROW						-10,832	-10,832
TOTALS:			30,829	425	44,542	15,923	2,635
REPLACE TOP SOIL ON BORROW PIT (5%)						796	
UTILITY AREA II SUBTOTALS:			30,829	425	44,542	16,719	2,635
UTILITY AREA II SAY:			30,900	425		16,800	

Earthwork quantities are calculated by the roadway designer.
These earthwork quantities are based in part on subsurface data
provided by the Geotechnical Engineering Unit

SUMMARY OF EARTHWORK
(UTILITY AREA III)

STATION	STATION	LOCATION	UNCL EXCAV.	UNDERCUT EXCAV.	EMBANK. + %	BORROW	WASTE
-L- Sta. 212 + 50.00	-L- Sta. 218 + 50.00	LT	261	0	892	631	0
WZTC PHASE I SUBTOTALS:			261	0	892	631	0
-L- Sta. 199 + 00.00	-L- Sta. 218 + 50.00	RT	1,362	0	8,846	7,484	0
-L- Sta. 218 + 50.00	-L- Sta. 238 + 70.00	RT	6,805	2,400	1,631	0	7,574
-L1- Sta. 10 + 60.00	-L1- Sta. 21 + 00.00	RT	202	0	3,163	2,961	0
-RPC- Sta. 17 + 00.00	-RPC- Sta. 22 + 99.00		148	0	1,753	1,605	0
-Y17- Sta. 10 + 00.00	-Y17- Sta. 17 + 50.00		2,002	1,500	899	0	2,603
-Y18- Sta. 10 + 00.00	-Y18- Sta. 12 + 50.00		228	0	56	0	172
-Y20- Sta. 11 + 00.00	-Y20- Sta. 31 + 50.00		1,736	0	8,772	7,036	0
-Y23- Sta. 11 + 00.00	-Y23- Sta. 11 + 50.00		544	0	0	0	544
-DWAY23- Sta. 10 + 00.00	-DWAY23- Sta. 13 + 50.00		4,118	0	0	0	4,118
-DWAY24- Sta. 11 + 00.00	-DWAY24- Sta. 17 + 00.00		227	0	3,745	3,518	0
WZTC PHASE II SUBTOTALS:			17,372	3,900	28,866	22,605	15,011
-L- Sta. 191 + 00.00	-L- Sta. 212 + 50.00	LT	3,648	0	1,202	0	2,446
-L- Sta. 218 + 50.00	-L- Sta. 238 + 70.00	LT	581	0	2,222	1,641	0
-L1- Sta. 10 + 60.00	-L1- Sta. 21 + 00.00	LT	933	0	5,371	4,438	0
-RPB- Sta. 22 + 72.00	-RPB- Sta. 29 + 46.00		1,521	0	2,724	1,203	0
-Y19- Sta. 12 + 00.00	-Y19- Sta. 12 + 50.00		80	0	0	0	80
-Y21- Sta. 12 + 00.00	-Y21- Sta. 12 + 50.00		62	0	0	0	62
-Y24- Sta. 10 + 00.00	-Y24- Sta. 12 + 50.00		993	0	98	0	895
-Y27- Sta. 12 + 50.00	-Y27- Sta. 15 + 50.00		1,392	0	188	0	1,204
-Y29- Sta. 15 + 00.00	-Y29- Sta. 35 + 50.00		12,311	350	5,065	0	7,596
-Y35- Sta. 11 + 50.00	-Y35- Sta. 12 + 00.00		22	0	1	0	21
-DWAY20- Sta. 11 + 50.00	-DWAY20- Sta. 12 + 75.00		90	0	52	0	38
-DWAY22- Sta. 10 + 25.00	-DWAY22- Sta. 10 + 75.00		43	0	8	0	35
WZTC PHASE III SUBTOTALS:			21,676	350	16,933	7,283	12,375
-L- Sta. 191 + 00.00	-L- Sta. 205 + 50.00	RT, MED	632	0	1,562	930	0
-L- Sta. 216 + 50.00	-L- Sta. 219 + 50.00	MED	0	0	426	426	0
-L1- Sta. 10 + 60.00	-L1- Sta. 18 + 00.00	MED	6	0	908	902	0
-Y15- Sta. 11 + 00.00	-Y15- Sta. 14 + 50.00		1,856	0	154	0	1,702
WZTC PHASE IV SUBTOTALS:			2,494	0	3,050	2,259	1,702
WZTC PHASING SUBTOTAL			41,803	4,250	49,741	32,777	29,089
UNSUITABLE EXCAVATION			1,490				1,490
WASTE IN LIEU OF BORROW						-24,839	-24,839
TOTALS:			43,293	4,250	49,741	7,938	5,740
REPLACE TOP SOIL ON BORROW PIT (5%)						397	
UTILITY AREA III SUBTOTALS:			43,293	4,250	49,741	8,335	5,740
UTILITY AREA III SAY:			43,300	4,250		8,400	
UTILITY AREA I SUBTOTAL			34,000	1,225	114,153	84,300	1,225
UTILITY AREA II SUBTOTAL			30,900	425	44,542	16,800	2,635
UTILITY AREA III SUBTOTAL			43,300	4,250	49,741	8,400	5,740
LOSS DUE TO CLEARING & GRUBBING			-24,500			24,500	
ADDITIONAL UNDERCUT EXCAVATION				1,700	2,040	2,040	1,700
PDI UNDERCUT CONTINGENCY				9,000	10,800	10,800	9,000
GRAND TOTAL			83,700	16,600	221,276	146,840	20,300
SAY TOTAL			83,700	16,600		146,900	

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PROJECT REFERENCE NO.	SHEET NO.
U-4758	3B-2

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	FABRIC LF	LINE POSTS EA	TERMINAL POSTS EA	FABRIC, BLACK VINYL COATED LF	LINE POSTS, BLACK VINYL COATED EA	TERMINAL POSTS, BLACK VINYL COATED EA
-L-	58 + 65	60 + 83				582	50	11
-L-	170 + 44	172 + 67				744	63	10
-Y29-	31 + 42	35 + 21				726	62	13
-RPB-	22 + 72	29 + 78	860	73	7			
SUBTOTAL:			860	73	7	2,052	175	34
LESS TERMINAL ANCHOR UNITS								
GRAND TOTALS:			860	73	7	2,052	175	34
SAY:			860	73	7	2,052	175	34

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	42 + 97	48 + 12	LT	109
-L-	60 + 12	75 + 62	LT	2,324
-L-	107 + 07	119 + 68	LTRT	178
-L-	127 + 92	129 + 48	RT	368
-L-	206 + 24	208 + 74	LT	445
-L-	231 + 74	232 + 33	LT	89
-L1-	16 + 25	17 + 25	LT	602
-Y8-	15 + 54	18 + 81	LT	802
-Y10-	13 + 54	15 + 19	LT	378
-Y17-	10 + 07	12 + 46	RT	505
-Y20-	10 + 56	13 + 57	LT	875
-Y29-	17 + 38	26 + 90	LT	601
SEE TRAFFIC CONTROL PLANS FOR SPECIFIC LOCATIONS OF TEMPORARY PAVEMENT REMOVAL				
-L-	20 + 10	218 + 67	CL	1,307
TOTAL:				8,584
SAY:				9,100

SURVEY LINE	STATION	STATION	FABRIC LF	LINE POSTS EA	TERMINAL POSTS EA
~Y20~	13 + 37	30 + 95	1,716	148	41
SUBTOTAL:			1,716	148	41
LESS TERMINAL ANCHOR UNITS					
GRAND TOTALS:			1,716	148	41
SAY:			1,716	148	41

SUMMARY OF CHAIN LINK FENCE 72" FABRIC

GUARDRAIL SUMMARY

NOTE: QUANTITIES ARE APPROXIMATE ONLY. THE RESIDENT ENGINEER WILL USE METHODS INCLUDING BUT NOT LIMITED TO RE-CROSS-SECTIONING, TRUCK MEASUREMENTS, AND AERIAL SURVEYS TO COMPUTE FINAL QUANTITIES WHICH THE CONTRACTOR WILL BE PAID

GUARDRAIL SUMMARY

[illegible]

COMPUTED BY: J.B. Barfield DATE: 3/28/2025

CHECKED BY: _____ DATE: _____

(9-17-24)

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	500
				TOTAL LF:	500

*UD = Underdrain

*BD = Blind Drain

*SD = Subsurface Drain

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 Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
-L-	14+00	16+00	ASU(2)	8		912	2085		
-L-	42+50	47+00	ASU(2)	8		984	2250		
-L-	52+00	53+00	ASU(2)	8		170	389		
-L-	53+00	55+00	ASU(2)	8		763	1744		
-L-	56+00	58+00	ASU(2)	8		336	769		
-L-	61+50	65+00	ASU(2)	8		595	1361		
-L-	66+50	69+50	ASU(2)	8		685	1567		
-L-	74+50	79+00	ASU(2)	8		823	1883		
-L-	81+50	82+00	ASU(2)	8		119	272		
-L-	164+50	167+00	ASU(2)	8		425	972		
-L-	169+50	171+50	ASU(2)	8		457	1044		
-Y26-	10+50	12+50	ASU(2)	8		427	978		
-Y29-	31+50	34+50	ASU(2)	8		831	1900		
CONTINGENCY			AST	3				500	
CONTINGENCY			ASU(2)	8		17700	40500		
-Y15-	14+75	16+75	ASU(1)	12	20	470	910		
-Y12-	13+25	15+25	ASU(1)	12	115	195	375		
-Y13-	10+75	16+25	ASU(1)	12	365	625	1210		
-Y17-	13+25	14+25	ASU(1)	12	100	210	405		
CONTINGENCY			ASU(1)	12	500	1000	1500		
			TOTAL CY/TONS/SY:		1100	27727**	62114**	500	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)

*AST = Aggregate Stabilization

*Total tons of "Class IV Subgrad Stabilization" and total square yards of "Geotextile for Subgrade 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.

SUMMARY OF SURCHARGES AND SURCHARGE WAITING PERIODS

LINE	Station	Station	Surcharge Height FT	MONTHS
-L-	55+89	57+00	5	1

SUMMARY OF EMBANKMENT WAITING PERIODS

LINE	Station	Station	MONTHS
-L-	55+89	57+00	1

SUMMARY OF SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	-L- 55+95	25	RT
2	-L- 56+45	25	RT
3	-L- 56+95	25	RT
TOTAL GAUGES (EACH):			3

REVISIONS

8/17/99

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STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PARCEL INDEX

PARCEL NO.	SHEET NO.	PROPERTY OWNER NAME
1	4,5	LEOTERRA JOHNSON STREET LLC
2	4	LEE VARRICK MOORE, JR. & ROBIN MICHELLE LONG
3	4,5	HOWARD L REGAN & TAMARA K REGAN
5	5	MARTIN F SCHLAEPPI & CATHERINE D. SCHLAEPPI
6	5,6	MARTIN F SCHLAEPPI & CATHERINE D. SCHLAEPPI
7	5	BILLY C HIATT & CAROL H HIATT
8	5	BILLY C HIATT
9	5	UNKNOWN HEIRS OF MARIA C HIATT
10	5	UNKNOWN HEIRS OF MARIA C HIATT
11	5,6	UNKNOWN HEIRS OF MARIA C HIATT
12	6	MEADOW CREEK HOA INC
13	6	MEADOW CREEK LLC
14	6	IRENE B BARR & RICHARD L BARR
15	6	ALANNA ZAMBRANO, ANDRE ZAMBRANO, & ROBERT BRANDWOOD
16	6	GRACEE A M QUIBOLY & PEDRO P QUIBOLOY
17	6,7	MEADOW CREEK SUBDIVISION OWNERS' ASSOC INC
18	6,7	ALANNA A ZAMBRANO & ROBERT BRANDWOOD
19	7,8	CITY OF HIGH POINT
20	7,8	MICHAEL E O'BRIEN & PARALEE O'BRIEN
21	8,9	CITY OF HIGH POINT
22	8	MILTON L KIRKLAND & JANICE J KIRKLAND
23	8	RASHEED ALNAGAR
24	8,9	GARNET D IDOL & BETTY K IDOL
25	9	ALEXANDER ALLEY, LARRY M ALLEY, & PHYLLIS A GRIFFITH
26	9	JOHN W ALLEY
27	9	ROBERT C LOPEZ & KODY E LOPEZ
28	9	DAVID L HOOKER & DEBORAH H HOOKER
29	9,10	LINDA M GOLDEN
30	9,10	DOUGLAS R OWENS & REBECCA O OWENS
31	10	DORTHY MARTIN, TRUSTEE
32	10	JOSEPH M SIPE & NANCY W SIPE
33	10,11	ROYAL HOMES OF NC, LLC
34	10,11	WESLEYAN EDUCATION CENTER
35	11	RANDY L SHIELDS & TIMOTHY F DWYER
35A	11	RANDY L SHIELDS & TIMOTHY F DWYER
36	11	THAIVAN HOANG & LIEN TK PHAM
37	11	NAINA ASSOCIATES LLC
43	11,12	THE LANDING AT WESTMOTT, LLC
43A	12,24	THE LOFTS AT WESTMOTT, LLC
45	11,12	JAMES C STAFFORD & WANDA D STAFFORD
46	12	PIEDMONT TRIAD AMBULANCE & RESCUE INC
48	12,13	THE PRESBYTERIAN HOMES INC
48A	13	THE PRESBYTERIAN HOMES INC
49	12,13	NANCY W SIPE & JOSEPH M SIPE
50	12,13,24	THE LOFTS AT WESTMOTT LLC
52	24	L C BAME JR & CHRISTINE G BAME
55	24	VIRGINIA I KNUCKLES
56	24	ROBERT S MINNICH & ROBIN D MINNICH
57	13,24	LADONNA M DEAN
58	13	LADONNA M DEAN
60	13	ROGER S ALVAREZ MONSALVE & FATIMA D JAUREGUI HIDALGO
61	13	JEFFERSON W CARTER & MELISSA L CARTER
62	13	DIANA DE JESUS GARCIA JASSO
63	13	THE PRESBYTERIAN HOMES INC
64	13,14	CYNTHIA M BOLEJACK

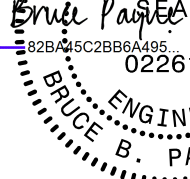
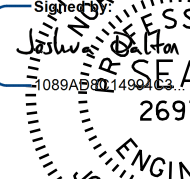
PARCEL INDEX

PARCEL NO.	SHEET NO.	PROPERTY OWNER NAME
65	13,14	SADDLE BROOK FLATS HOA INC
66	13,14	SADDLE BROOK HOA INC
67	14	ANTHONY, BEVERLY, CHARLES, WILMETTE MORGAN & JOANN WALKER
68	14	MICHAEL E SCOTT & JANE W SCOTT
72	14	SADDLE BROOK FLATS HOA INC
73	14	ANTHONY, BEVERLY, CHARLES, WILMETTE MORGAN & JOANN WALKER
74	14	ANTHONY, BEVERLY, CHARLES, WILMETTE MORGAN & JOANN WALKER
75	14	CITY OF HIGH POINT
77	14	MAX A COLTRANE & DIANA W COLTRANE
79	14,15	MAX A COLTRANE & DIANA W COLTRANE
81	14,15	SADDLE BROOK FLATS HOA INC
82	15	MAX A COLTRANE & MARY COLTRANE MORGAN
83	15	MICHAEL S CARRICK
84	15	TAMARA C EDWARDS
85	15	RICHARD DICKERSON & CAROL DICKERSON
86	15	TAMARA C EDWARDS
87	15	KENNETH A RUSH & AMY L RUSH
88	15	STEPHEN G DILLON & STEPHANIE A DILLON
89	15,16	STEPHEN C PROCO & MELISSA A PROCO
90	15	STEPHANIE S DILLON
91	15,16	STEPHEN C PROCO
92	15,16	KATHY A NEWSOM
93	16	C&S PROPERTIES INC
94	16	HOWARD J HOLYOAK
95	16	350 SOUTH LAND HOLDING LLC
96	16	TERRY W FRAZIER
97	16	SANDY RIDGE METHODIST CHURCH
98	16	SANDY RIDGE METHODIST CHURCH
99	16,17	350 SOUTH LAND HOLDING LLC
100	16,17	JIMMY C FLOWERS & BECKY T FLOWERS
101	16	MARK A BAKER & IVY R BAKER
102	16	MARK A BAKER & IVY R BAKER
102A	16	WANDA DEAN & ERIC N HUTCHENS
103	16,17	NADINE S MARLOR
104	17	JOE W FRAZIER JR & JOANN W FRAZIER TRUST
105	17	JOHN K STERLING & KAY H STERLING
106	17	JOE W FRAZIER JR & JOANN W FRAZIER TRUST
107	17	MICHELLE R SOTO
108	17,18	KEITH FRAZIER
109	17,18	TRAVIS R NICKELSTON
110	18	SAKTI LLC
111	17,18	JEAN, DAVID ROBERTSON, JANET RANDALL, & DONNA THOMPSON
112	17,18	KEITH W PENDRY
113	18	SUSAN CHU & MICHAEL CHU
114	18	VIENGNAKHONE MIXAYKHAM
115	18	MICHAEL B BUTNER & JAMES W GRIFFIN
116	18	CHRISTOPHER B SOUTHER & JUANITA A SOUTHER
117	18	GARY S BOOHER & WILMA J BOOHER
118	18	FRANCISCO BATZIN & ESLEY LOPEZ
120	18	BRADLEY C PENNY & ANGELA R PENNY
121	18	TRIAD MUSLIM COMMUNITY CENTER INC
122	18	BILLY G DILLON & JEANETTE B DILLON TRUSTEES
123	18	LARRY C ROBERSON
124	18	POLARIS HOLDINGS II LLC
125	18	MONICA HARRINGTON-YOUNG
127	18,19	LUIS M CASAS & PATRICIA L CASAS

PARCEL INDEX

PARCEL NO.	SHEET NO.	PROPERTY OWNER NAME
129	19	ROY L BEAGLE & YVETTE L BEAGLE
131	19	ANTHONY D WHIGHAM & VIRGINIA A WHIGHAM
132	19	350 SOUTH LAND HOLDING LLC
133	19	SANDY RIDGE DEVELOPMENT PARTNERS LLC
134	19	SANDY RIDGE DEVELOPMENT PARTNERS LLC
135	19	SANDY RIDGE DEVELOPMENT PARTNERS LLC
136	19	VB SIX LLC
137	19	WILLIAM V DILLON
137A	19	BILLY G DILLON
138	19,20	WILLIAM V DILLON
139	20	JASON L ROBINSON & MELISSA B ROBINSON
140	20	STRATTON OAKMONT PROPERTIES
141	20	GENE B PITTS & OMA L PITTS
142	20	EDDIE W BATES & SHARON T BATES
143	20	JOSE M MARTINEZ-GUEVARA & ELBA N GRANADOS
144	20	KEITH D PEEDEN
145	20	SCR PROPERTIES LLC
146	20	DENNIS W ROBINSON & TERESA M ROBINSON
147	20,21	HERBERT N SAMPSON JR
149	20,21	CLARENCE S LONG JR
150	21	DANIEL N SAMPSON & TRINA P SAMPSON
151	21	CLARENCE S LONG JR
152	21	MELANIE A CRUMP & SCOTT W CRUMP
153	21	SMITH GROVE BAPTIST CHURCH
154	21	SMITH GROVE BAPTIST CHURCH
155	21	CHARLES R NUCKLES & MATTIE W NUCKLES
156	21,25	STATE OF NORTH CAROLINA DEPT OF JUSTICE
157	25	EDDIE W BATES & SHARON K BATES
158	25	CLINTON L BATES
158A	25	FRANCES D SHIELDS
159	21,22,25	STATE OF NORTH CAROLINA DEPT OF JUSTICE
161	21,22	ERNESTINE W QUICK, ERNSTINE W QUICK FAMILY TRUST
162	21	SMITH GROVE BAPTIST CHURCH
163	21,22	TRUSTEES OF ZION HILL UNITED METHODIST
164	21,22	ERNESTINE W QUICK, ERNSTINE W QUICK FAMILY TRUST
165	22,26	PIEDMONT CHEERWINE BOTTLING CO
165A	22	EPHRAIM PROPERTIES LLC
166	22	BESSEMER IMPROVEMENT CO
167	22,26	POND COUNTRY COLFAX LLC
168	22	BESSEMER IMPROVEMENT CO
169	22,26	JOE PHAGAN
170	26	GLENDA A G FOUST & PATRICIA A GEORGE
171	26	GLENDA A G FOUST & PATRICIA GEORGE
172	22,23	KEVIN A ROBINSON
173	22,23	BESSEMER IMPROVEMENT COMPANY
174	22,23,26,27	KEVIN A ROBINSON
175	23	BESSEMER IMPROVEMENT COMPANY
176	23,27	CIRCLE K STORES INC
177	27	LEAP YEAR INVESTMENTS LLC
178	27	ATLANTIC EMERGENCY GROUP-GREENSBORO LLC
179	27	8424 NORCROSS LLC
180	7,8	CITY OF HIGH POINT
182	26	KEVIN A ROBINSON
183	26	EMILY M LAMPKIN & SARAH E LAMPKIN
184	9	AMY L RUSH & KENNETH A RUSH
187	15	NEW DAY THE CHURCH AT HIGH POINT, INC
191	19,20	DENNIS W ROBINSON & TERESA M ROBINSON

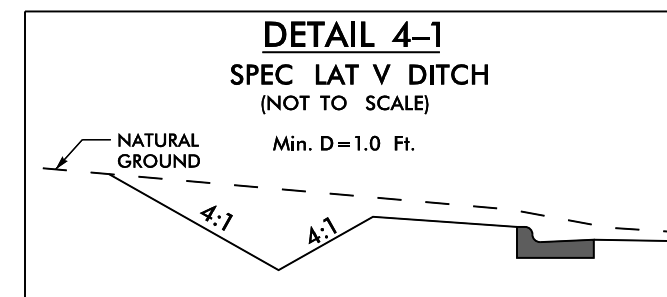
NOTE: PARCELS 4, 38, 39, 40, 41, 42, 44, 47, 51, 53, 54, 59, 69, 70, 71, 76, 78, 80, 119, 126, 128, 130, 160, 181, 185, 186 HAVE BEEN REMOVED FROM ACQUISITION OR COMBINED WITH OTHER PARCELS AND ARE NOT SHOWN ON THIS SHEET FOR THAT REASON.

PROJECT REFERENCE NO.	SHEET NO.
U-4758	4
R/W DESIGN NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
8/22/2025	8/22/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

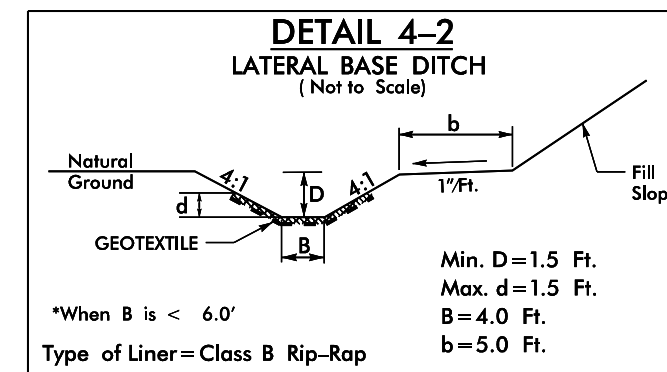
AtkinsRéalis 1616 EAST MILLBROOK ROAD, SUITE 160
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEES #F-0326

SUNGATE DESIGN GROUP, P.A.

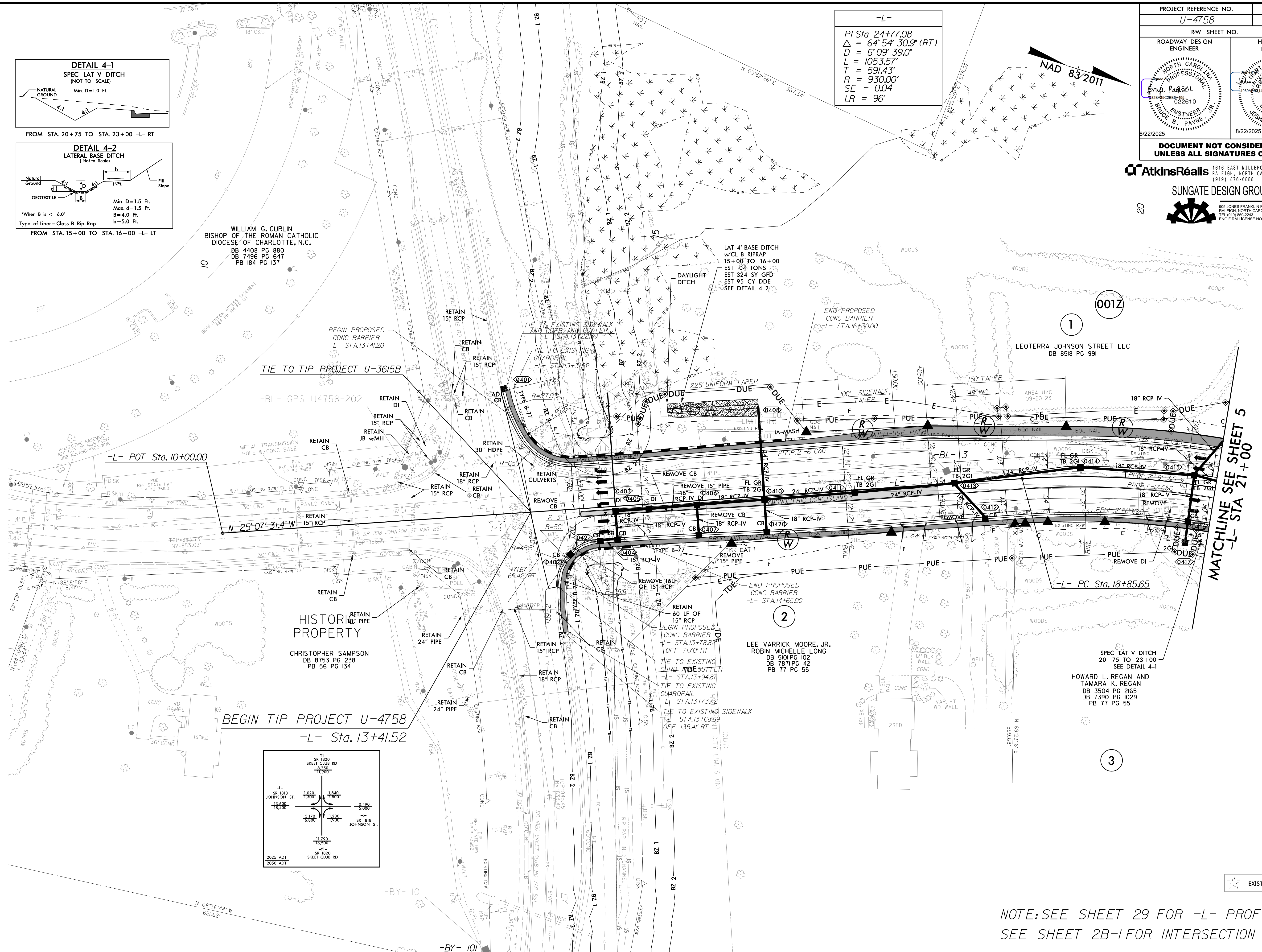
20  905 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL (919) 855-2243
 ENG FIRM LICENSE NO. C-800



FROM STA. 20+75 TO STA. 23+00 -L- RT



FROM STA. 15+00 TO STA. 16+00 -L- LT



 EXISTING SIGNAL

NOTE: SEE SHEET 29 FOR -L- PROFILE
SEE SHEET 2B-1 FOR INTERSECTION DETAIL