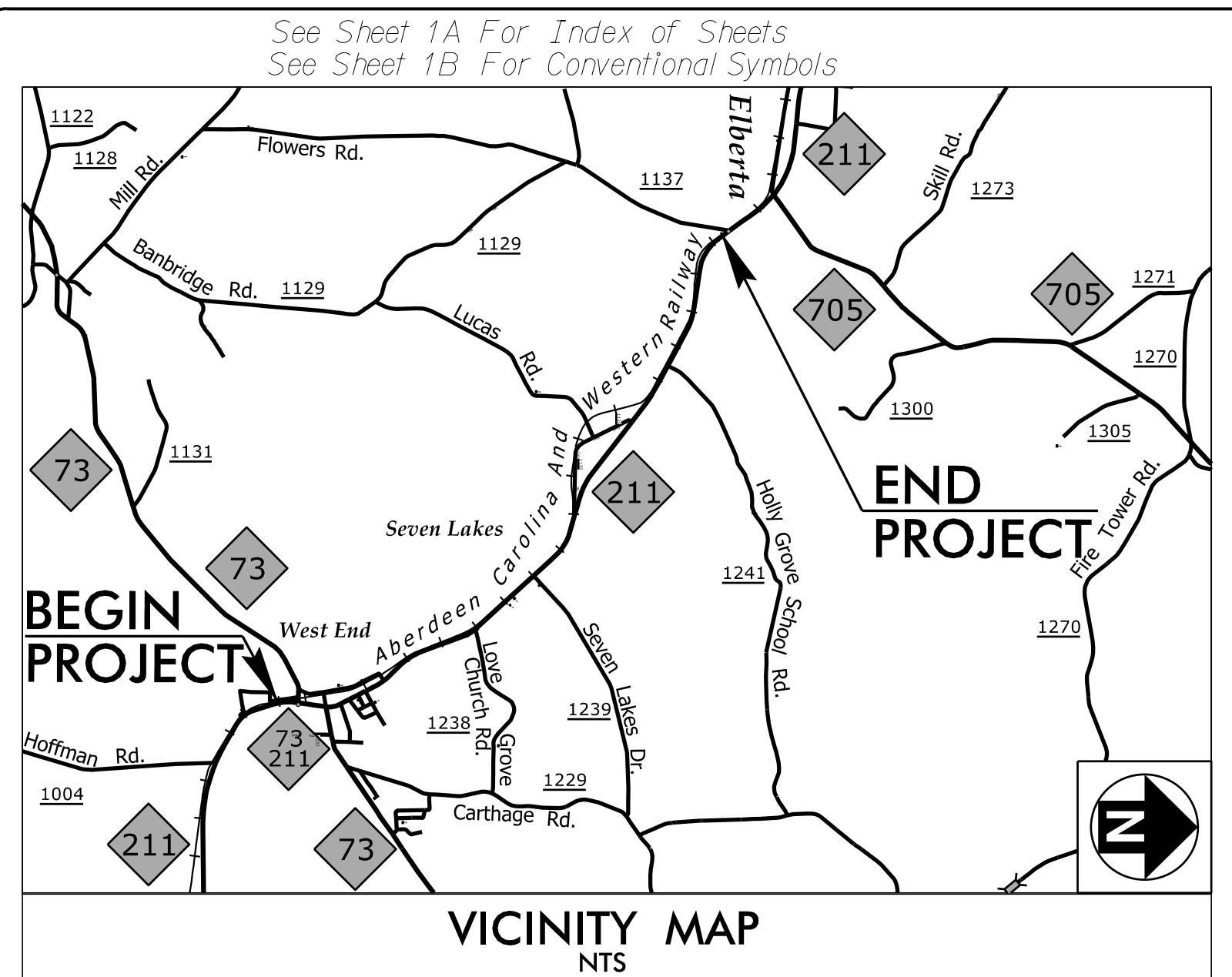


09\_2025/219

**TIP PROJECT: R-5726**

**CONTRACT: C204949**

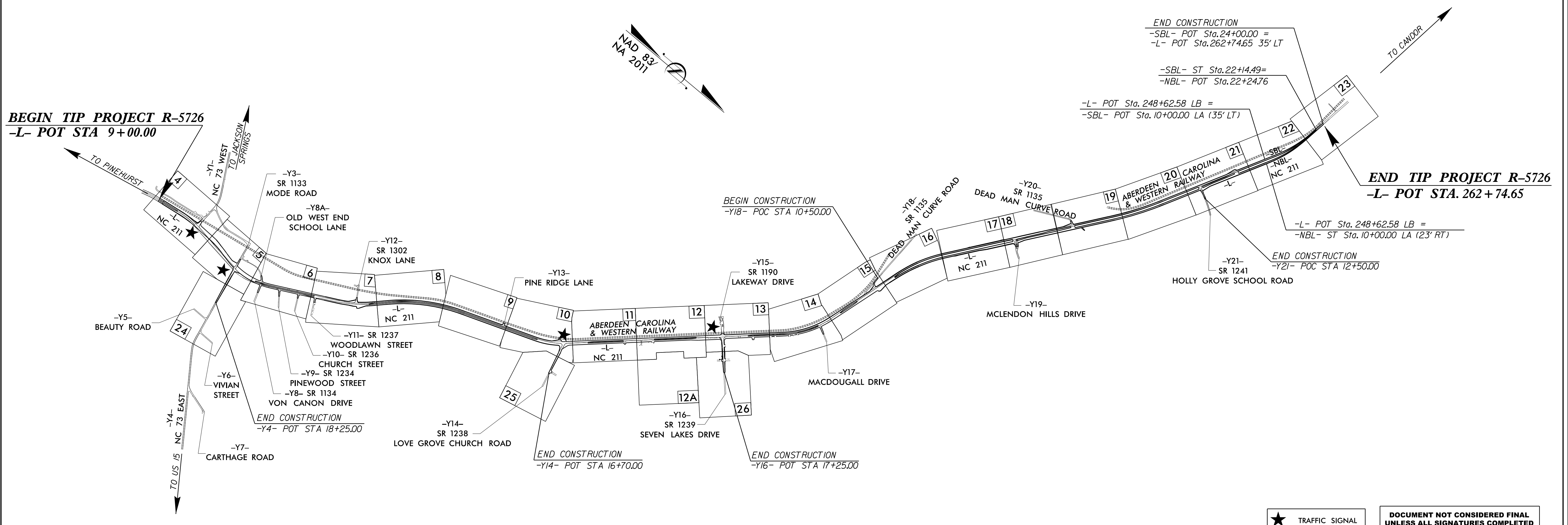


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**MOORE COUNTY**

**LOCATION: NC 211 FROM SOUTH OF NC 73 IN WEST END TO WEST OF SR 1241 (HOLLY GROVE SCHOOL ROAD).**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNALS, AND WALLS**

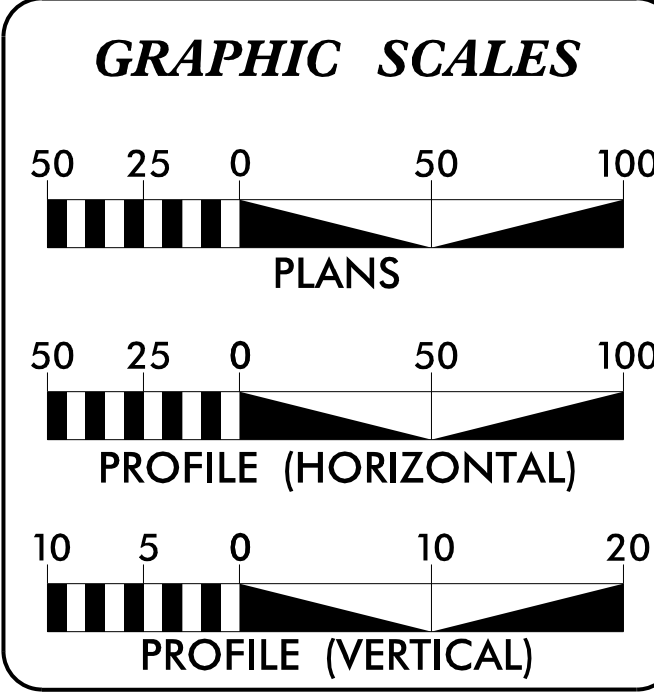
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5726	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50218.1.1		P.E.	
50218.2.2		RW	
50218.2.5		UTIL.	
50218.3.1		CONST.	



THIS IS A PARTIAL CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS AS SHOWN ON THE PLANS

★ TRAFFIC SIGNAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**

ADT 2024 =	17,460
ADT 2044 =	22,260
K =	9 %
D =	55 %
T =	9 % *
V =	60 MPH
* (TTST 6% + DUAL 3%)	
FUNC CLASS =	MINOR ARTERIAL
REGIONAL TIER	

**PROJECT LENGTH**

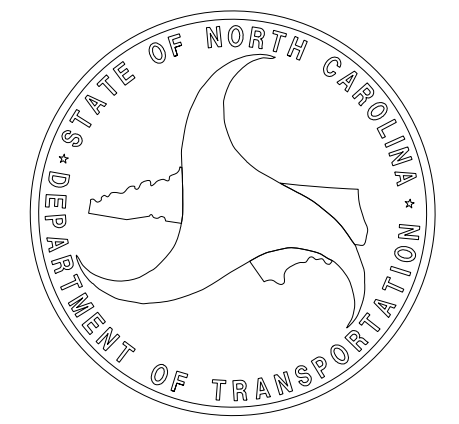
LENGTH ROADWAY TIP PROJECT R-5726 =	4.806 MILES
TOTAL LENGTH OF TIP PROJECT R-5726 =	4.806 MILES

PLANS PREPARED FOR THE NCDOT BY:  
**M M**  
MOTT  
MACDONALD  
LICENSE NO. F-0669

2018 STANDARD SPECIFICATIONS  
**RIGHT OF WAY DATE:**  
JUNE 29, 2018  
**LETTING DATE:**  
NOVEMBER 19, 2024

**DAVID C. WALLER, PE**  
PROJECT ENGINEER  
PEF ENGINEER  
**PADDY JORDAN**  
PROJECT DESIGN ENGINEER  
PEF ENGINEER  
**KHALED ALAKHDAR**  
NCDOT PROJECT MANAGER

**HYDRAULICS ENGINEER**  
Signed by: *Josua Massaro*  
SEAL 042084  
29-Aug-2024  
P.E.  
**ROADWAY DESIGN ENGINEER**  
Signed by: *David C. Waller*  
SEAL 27606  
29-Aug-2024  
P.E.



8:31:27 AM R:\Roadway\Proj\R5726\_rdy\_tsh.dgn JOR66165



B.17/99

### GENERAL NOTES

GENERAL NOTES: 2018 SPECIFICATIONS EFFECTIVE: 01-16-18

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

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

SUPERELEVATION:  
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 OR 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:  
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01 OR 560.02.

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

SUBSURFACE DRAINS:  
SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

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

STREET TURNOUT:  
STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

GUARDRAIL:  
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

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

UTILITIES:  
UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY, BRIGHTSPEED, AND MOORE COUNTY ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:  
RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT

CURB RAMPS:  
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05

### LIST OF ROADWAY STANDARD DRAWINGS

2018 ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01-16-2018

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
<b>DIVISION 2 - EARTHWORK</b>	
200.02	Method of Clearing - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
225.03	Deceleration and Acceleration Lanes
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.05	Method of Obtaining Superelevation - Divided Highways
275.01	Rock Plating - See Detail

STD.NO.	TITLE
<b>DIVISION 3 - PIPE CULVERTS</b>	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction

STD.NO.	TITLE
<b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b>	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II

STD.NO.	TITLE
<b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>	
654.01	Pavement Repairs

STD.NO.	TITLE
<b>DIVISION 8 - INCIDENTALS</b>	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
806.03	Concrete Control of Access Marker
815.02	Subsurface Drain
838.01	Concrete Endwall for Single and Double Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Culverts - 15" thru 48" Pipe 90 Skew
838.21	Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
838.51	Reinforced Brick Endwall - for Single 54" Pipe 90 Skew
838.75	Notes for Reinforced Brick Endwall - Std. Dwg. 838.51 Thru 838.70
838.80	Precast Endwalls - 12" thru 72" Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.20	Frames and Wide Slot Flat Grates
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
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
852.01	Concrete Islands
852.04	Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
852.05	Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter
852.06	Method for Placement of Drop Inlets in Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

Prepared in the Office of: **M** MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com

PROJECT REFERENCE NO. **R-5726** SHEET NO. **1A**

RW SHEET NO.

ROADWAY DESIGN ENGINEER

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

### INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-10	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 THRU 2B-4	INTERSECTION DETAIL SHEETS
2C-1	ROCK PLATING DETAIL
2C-2	2'-9" CONCRETE CURB & GUTTER DETAIL
2C-3	DETAIL OF 2'-9" TO FRAME AND GRATE
2C-4	DETAIL OF 1'-6" C&G TO SHOULDER BERM GUTTER TRANSITION SECTION
2C-5	DETAIL OF 1'-6" C&G TO 2'-9" C&G TRANSITION SECTION
2C-6	DETAIL OF 2'-6" C&G TO EXPRESSWAY GUTTER TRANSITION SECTION
2C-7	DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE
2C-8	GUARDRAIL ANCHOR UNIT DETAIL
2C-9	GUARDRAIL INSTALLATION DETAIL
2C-10	DETAIL OF 1'-6" CONCRETE CURB & GUTTER (SPECIAL)
2C-11	DETAIL TO CONVERT EXISTING DI, CB, OTCB OR GI TO JB
2C-12	DETAIL TO CONVERT EXISTING CB OR JB TO DI OR 2-GI
2D-1 THRU 2D-3	DRAINAGE DETAILS
3B-1 THRU 3B-2	EARTHWORK SUMMARY
3B-3	GUARDRAIL AND GUIDERAIL SUMMARIES
3B-4	EXPRESSWAY GUTTER, SHOULDER BERM GUTTER, ASPHALT PAVEMENT REMOVAL, AND CHAIN LINK FENCE SUMMARIES
3D-1 THRU 3D-13	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARY
3P-1 THRU 3P-2	PARCEL INDEX SHEET
4 THRU 26	PLAN SHEETS
27 THRU 43	PROFILE SHEETS
RW-01	SURVEY CONTROL TITLE SHEET
RW-02C-1 THRU RW-02C-11	SURVEY CONTROL SHEETS
RW-02D-1	PROPOSED ALIGNMENT CONTROL SHEET
RW-03E-1 THRU RW-03E-5	RIGHT OF WAY CONTROL SHEETS
RW-04 THRU RW-26	RIGHT OF WAY PLAN
TMP-1 THRU TMP-63	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-25	PAVEMENT MARKING PLANS
EC-1 THRU EC-49	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-27A	SIGNING PLANS
SIG-1.0 THRU SIG-19.5	SIGNAL PLANS
M1A THRU M9	STANDARD METAL POLE DETAILS
UC-1 THUR UC-37	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-24	UTILITIES BY OTHERS PLANS
X-A THRU X-H	CROSS-SECTIONS INDEX AND SUMMARY
X-1 THRU X-151	CROSS-SECTIONS
W-1 THRU W-3	STRUCTURE PLANS - WALLS

\$\$\$USERNAME\$\$\$  
\$\$\$EDG\$\$\$  
\$\$\$SYSTEMTIME\$\$\$  
\$\$\$DATE\$\$\$

# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

## CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	◻
Parcel/Sequence Number	⑩23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-WLB-
Proposed Wetland Boundary	-WLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-
Existing Historic Property Boundary	-HPB-
Known Contamination Area: Soil	-S-S-
Potential Contamination Area: Soil	-S-S-
Known Contamination Area: Water	-W-W-
Potential Contamination Area: Water	-W-W-
Contaminated Site: Known or Potential	☠ ?

### BUILDINGS AND OTHER CULTURE:

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

### HYDROLOGY:

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

### RAILROADS:

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

### RIGHT OF WAY & PROJECT CONTROL:

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

### ROADS AND RELATED FEATURES:

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

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

### EXISTING STRUCTURES:

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

### UTILITIES:

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

### POWER:

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

### TELEPHONE:

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

### WATER:

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

### TV:

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

### GAS:

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

### SANITARY SEWER:

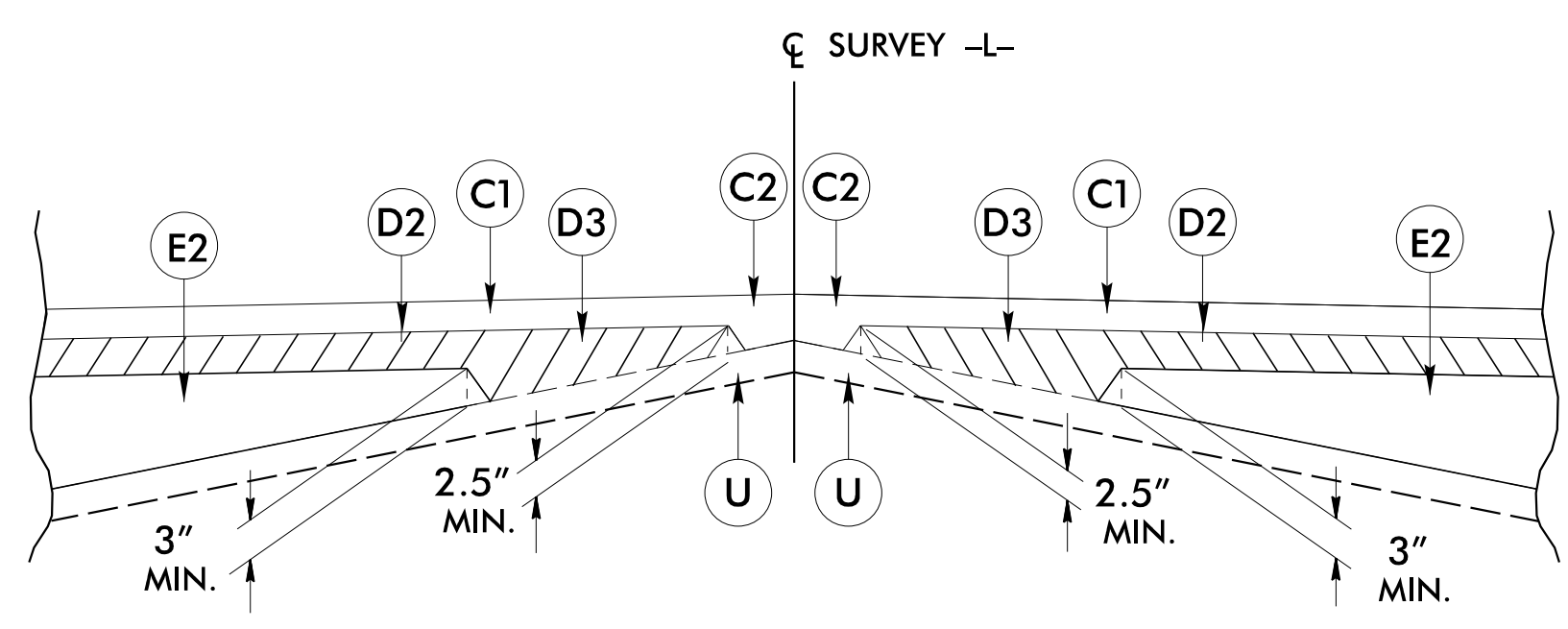
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Force Main Line Test Hole (SUE - LOS A)*	⊕
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

### MISCELLANEOUS:

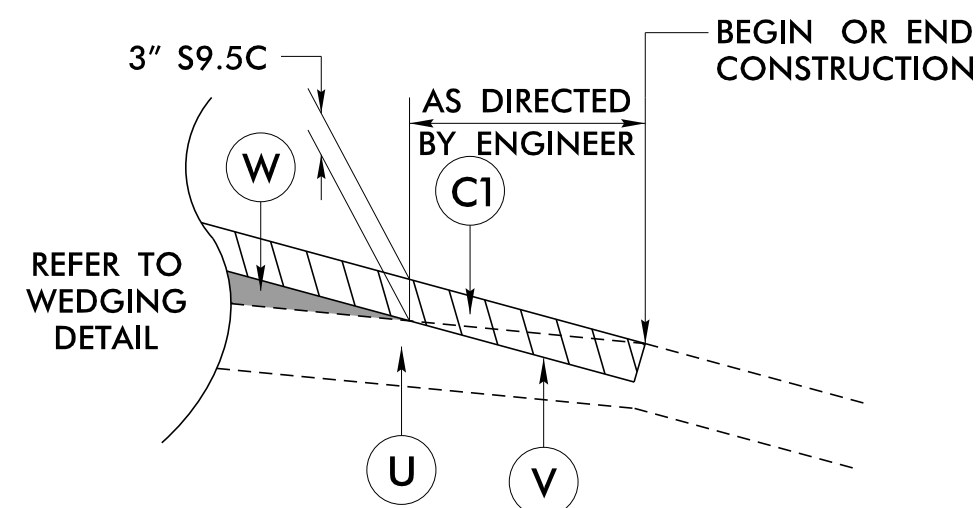
Utility Pole	●
Utility Pole with Base	⊕
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line (SUE - LOS B)*	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
Abandoned According to Utility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



6/2/99



Detail Showing Method of Wedging (W)



MILLING DETAIL  
DETAIL SHOWING PROFILE VIEW

PROJECT REFERENCE NO. R-5726	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	PAVEMENT DESIGN ENGINEER MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD 1 & E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com

PAVEMENT SCHEDULE  
FINAL PAVEMENT DESIGN

C1	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.	J1	8" AGGREGATE BASE COURSE.	R6	SHOULDER BERM GUTTER
C2	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 TO EXCEED 2" IN DEPTH.	P	PRIME COAT	R7	EXPRESSWAY GUTTER
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R1	1'-6" CONCRETE CURB AND GUTTER.	T	EARTH MATERIAL.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R2	2'-6" CONCRETE CURB AND GUTTER.	U	EXISTING PAVEMENT.
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 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R3	2'-9" CONCRETE CURB AND GUTTER	V	INCIDENTAL MILLING
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R4	1'-6" CONCRETE CURB AND GUTTER (SPECIAL), SEE DETAIL SHEET NO. 2C-10	V1	MILLING ASPHALT PAVEMENT, 2½" DEPTH.
E2	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" IN DEPTH OR GREATER THAN 5½" IN DEPTH.	R5	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)	W	VARIABLE DEPTH ASPHALT PAVEMENT. (SEE WEDGING DETAIL)
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.					

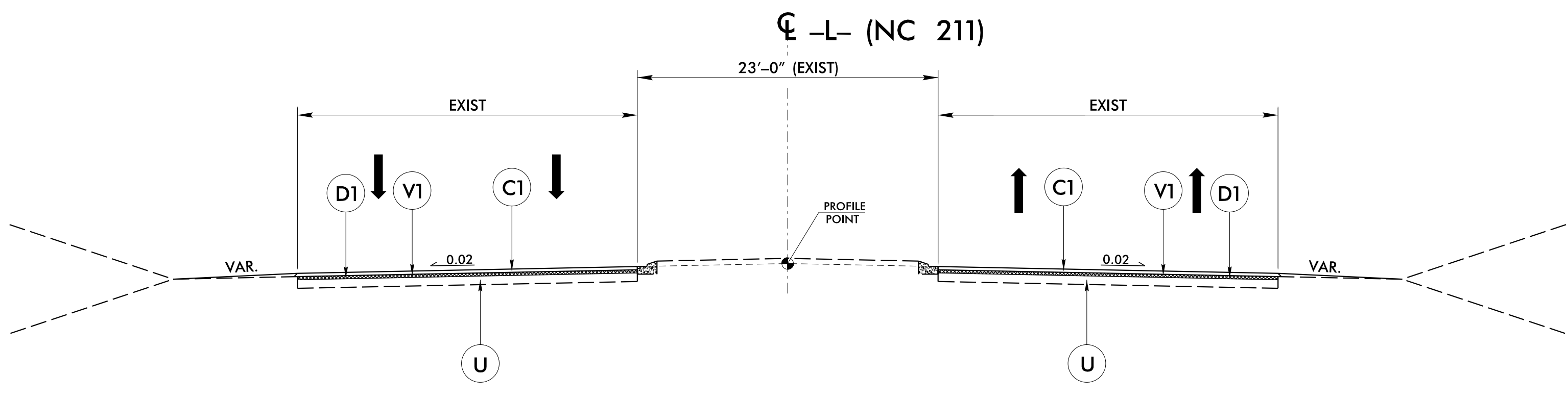
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6/2/2019

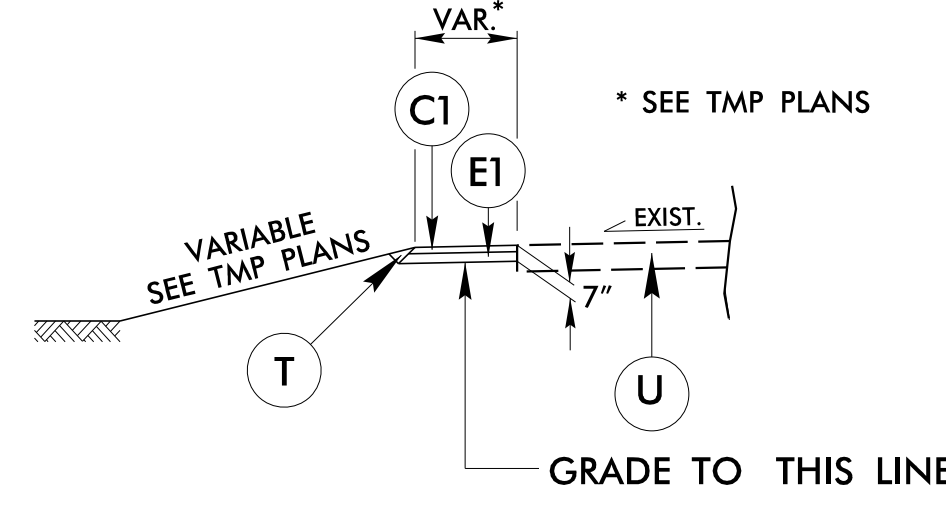
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D1	2½" I19.0C
D2	4" I19.0C
E1	4" B25.0C
R1	1'-6" C & G
R3	2'-9" C & G
R5	5" MONO. ISLAND
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2½" MILLING
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

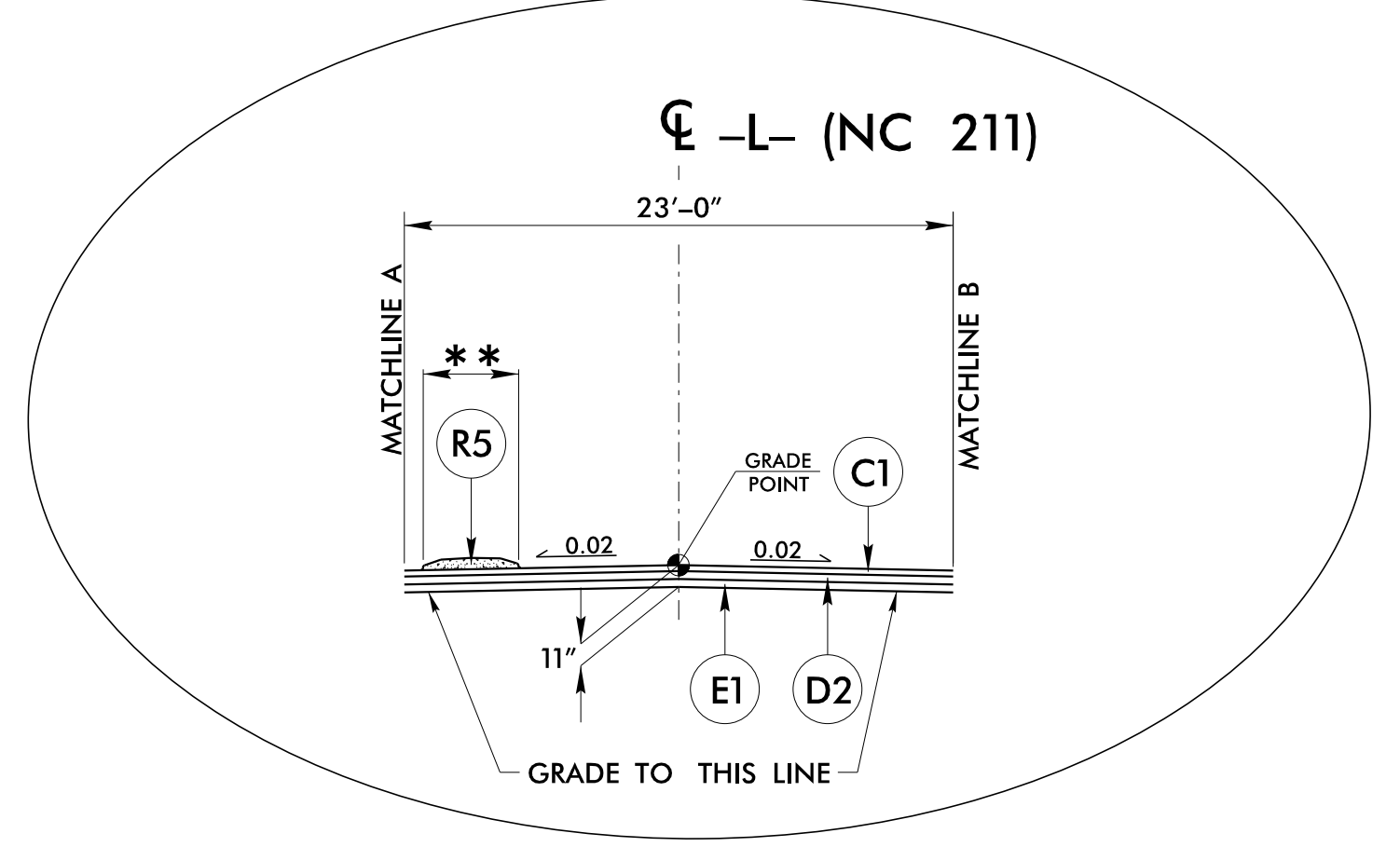


**TYPICAL SECTION NO. 1**

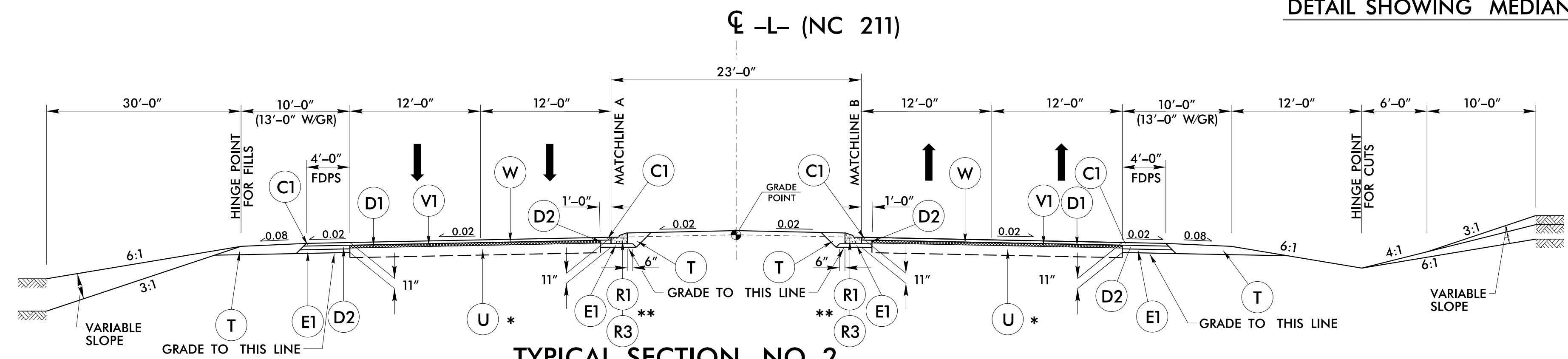
USE TYPICAL SECTION NO. 1:  
-L- STA 9+00.00 TO 10+00.00



**TEMPORARY PAVEMENT DETAIL**  
-L- STA. 72+55 TO 77+05 LT



**DETAIL SHOWING MEDIAN CONCRETE ISLANDS**



**TYPICAL SECTION NO. 2**

USE TYPICAL SECTION NO. 2:  
-L- STA 10+00.00 TO 16+89.76 RT  
-L- STA 10+00.00 TO 18+46.08 LT  
-L- STA 49+25.00 TO 98+80.17  
-L- STA 165+00.00 TO 168+00.00

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-2</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i> SEAL 22606 13-Aug-2019	PAVEMENT DESIGN ENGINEER <i>[Signature]</i> SEAL 038176 14-Aug-2019
MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 MOTT MACDONALD www.mottmcc.com

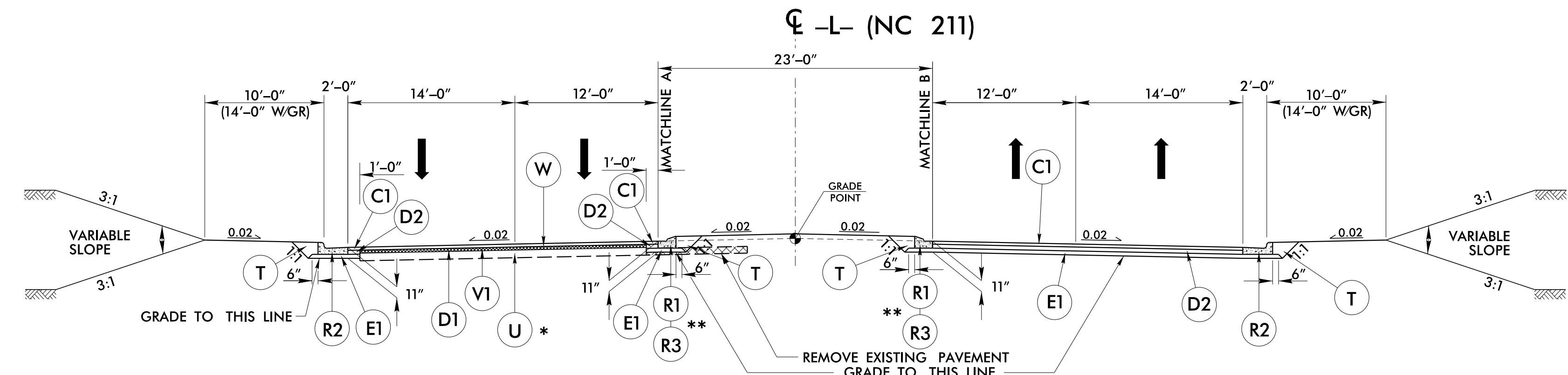
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C:\Users\jg\Documents

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
\*\*ISLAND AND CURB LOCATIONS AND WIDTHS VARIES. (SEE PLANS)  
NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
FOR ISLAND LIMITS SEE PLAN VIEW.

6/2/2019

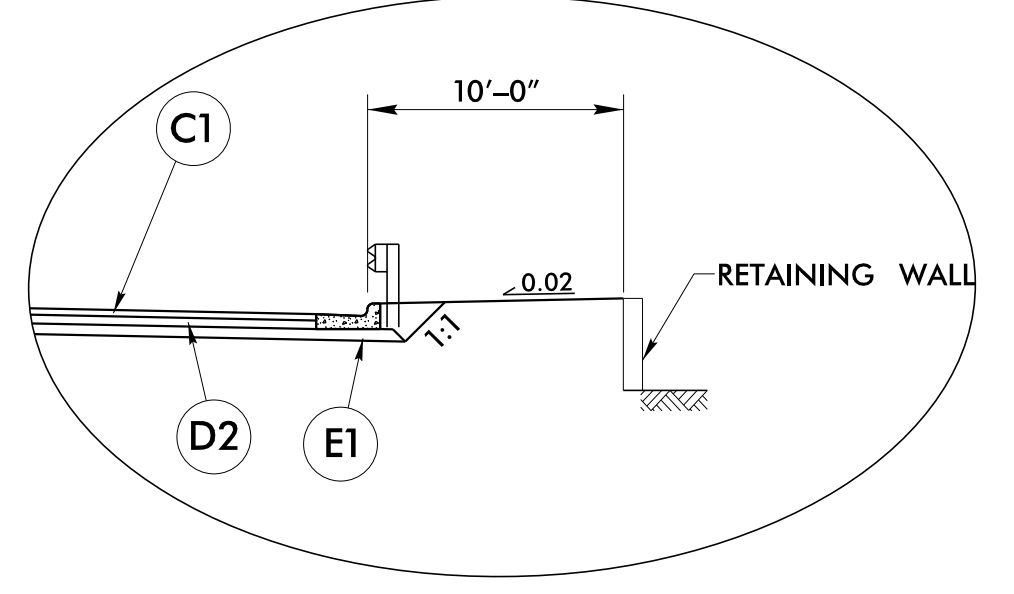
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
E1	4" B25.0C
R1	1'-6" C & G
R2	2'-6" C & G
R3	2'-9" C & G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



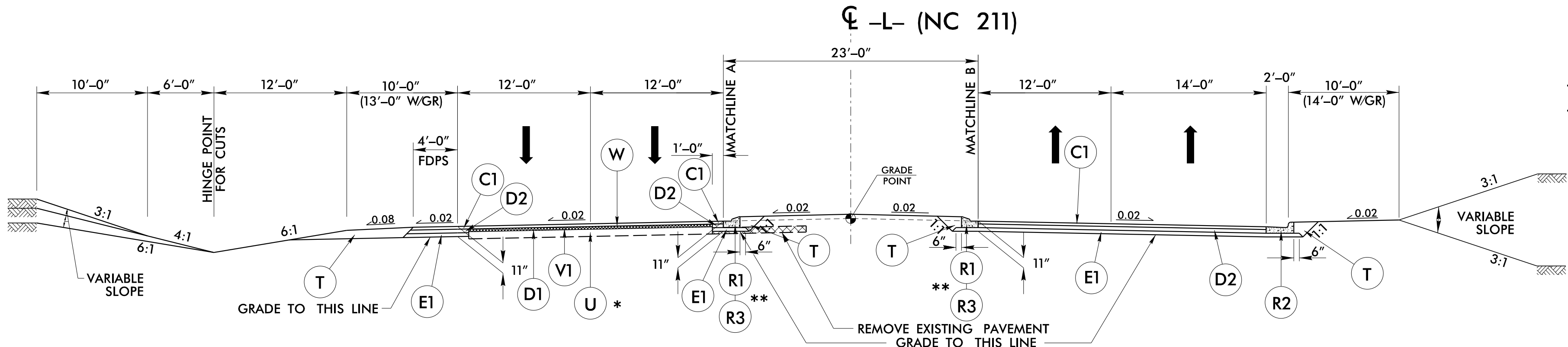
**TYPICAL SECTION NO. 3**

USE TYPICAL SECTION NO. 3:  
 -L- STA 16+89.76 TO 49+25.00 RT  
 -L- STA 18+46.08 TO 49+25.00 LT  
 -L- STA 98+80.17 TO 131+54.00



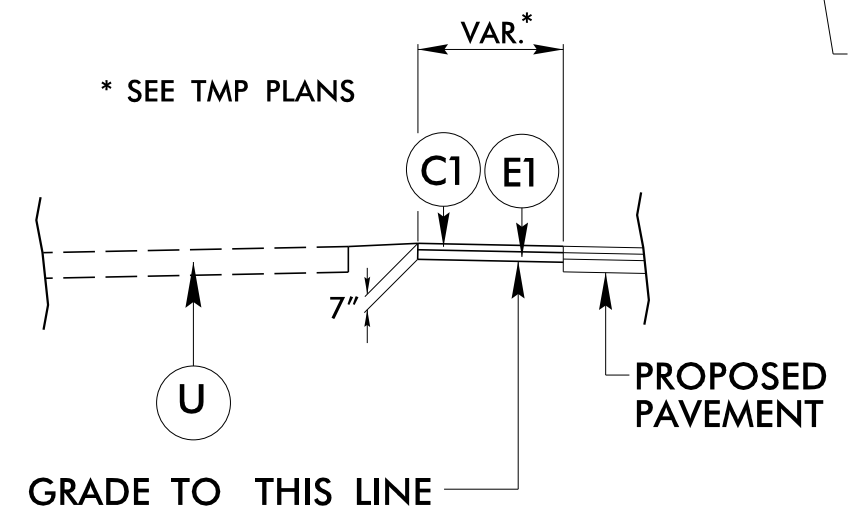
**RETAINING WALL DETAIL**

-L- STA 47+80.00 TO 49+10.00 RT  
 -L- STA 146+09.05 TO 146+43.12 RT



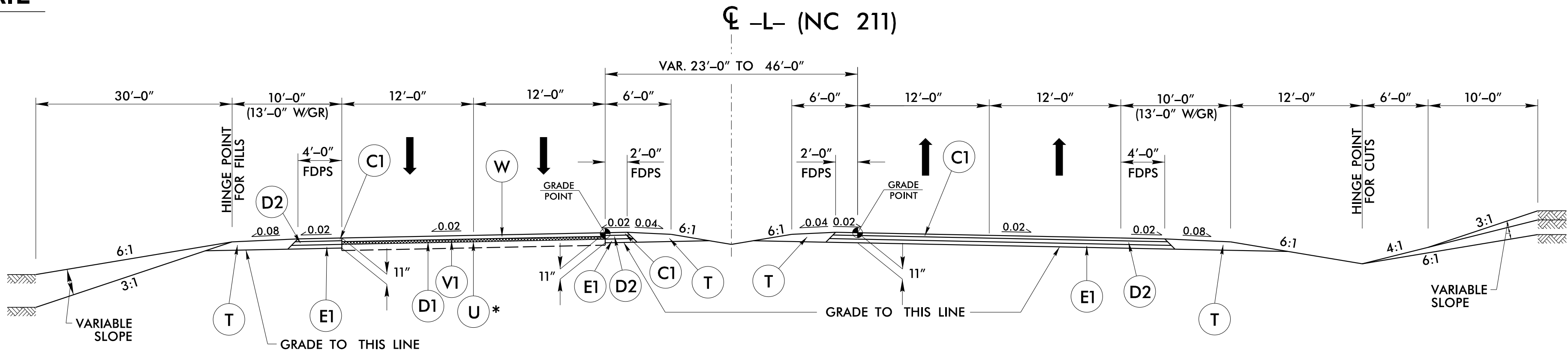
**TYPICAL SECTION NO. 4**

USE TYPICAL SECTION NO. 4:  
 -L- STA 131+54.00 TO 165+00.00



**TEMPORARY PAVEMENT DETAIL**

- L- STA. 104+13 TO 114+30 RT
- L- STA. 117+60 TO 126+12 RT
- L- STA. 136+63 TO 144+50 RT
- L- STA. 146+75 TO 151+10 RT
- L- STA. 191+50 TO 194+75 RT
- L- STA. 195+70 TO 197+01 RT
- L- STA. 250+80 TO 256+40 RT



**TYPICAL SECTION NO. 5**

USE TYPICAL SECTION NO. 5:  
 -L- STA 168+00.00 TO 175+00.00

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
 \*\*ISLAND AND CURB LOCATIONS AND WIDTHS VARIES. (SEE PLANS AND SHEET 2A-2 FOR DETAIL)  
 NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
 FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
 FOR ISLAND LIMITS SEE PLAN VIEW.

PROJECT REFERENCE NO. R-5726	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER MOTT MACDONALD 1 & E, LLC 13-Aug-2019	PAVEMENT DESIGN ENGINEER MOTT MACDONALD 1 & E, LLC 14-Aug-2019
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	
Prepared in the Office of: <b>M</b> MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com	

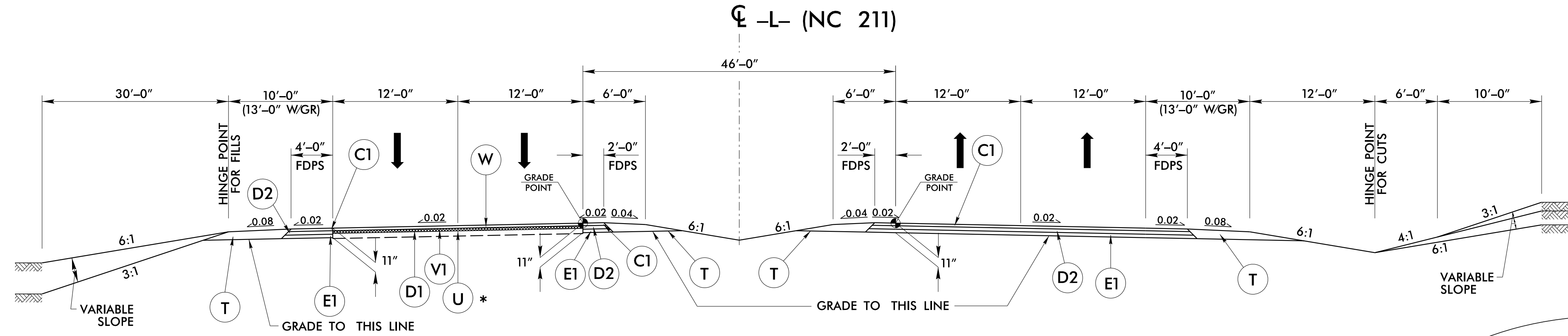
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6/2/09

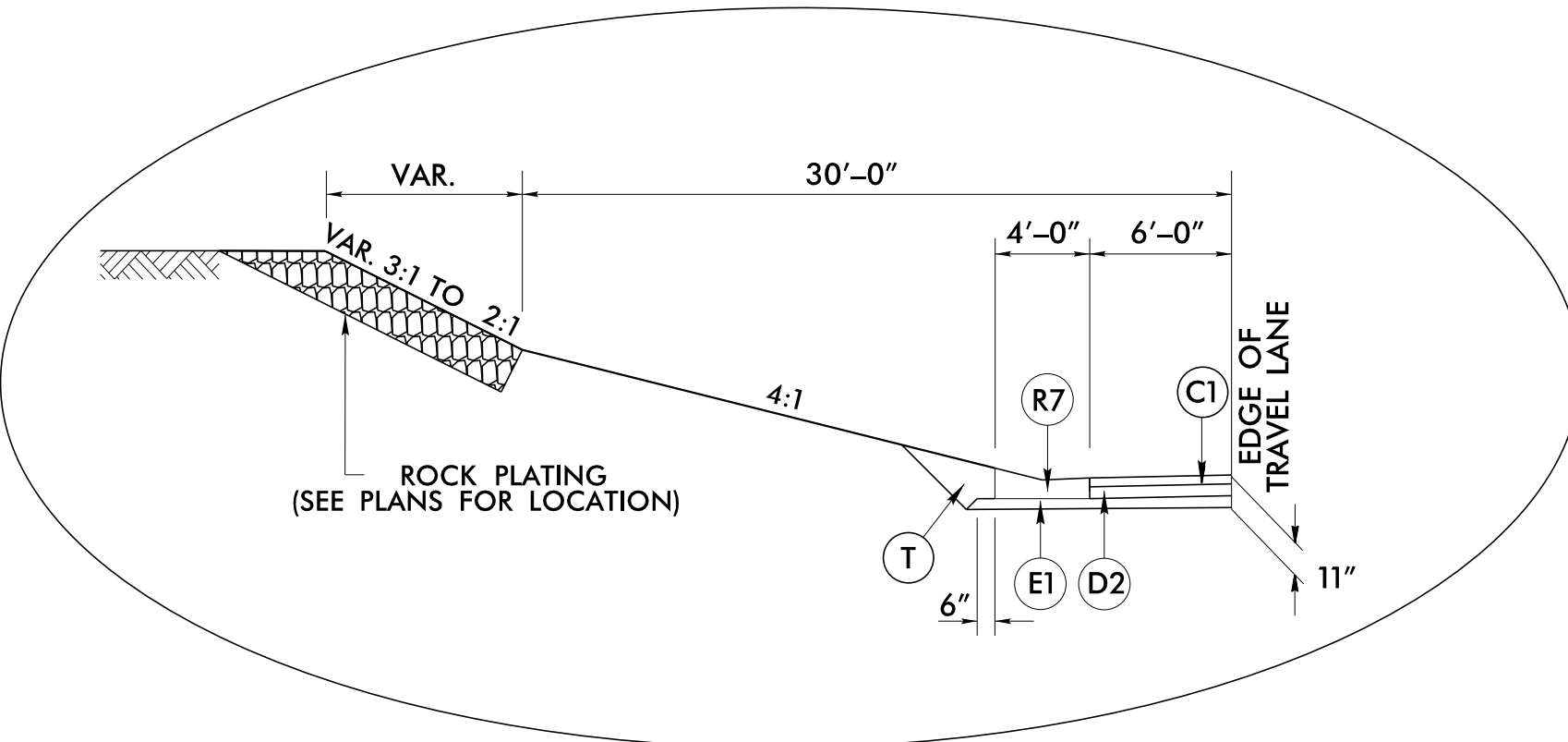
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D1	2½" I19.0C
D2	4" I19.0C
E1	4" B25.0C
R6	SHOULDER BERM GUTTER
R7	EXPRESSWAY GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2½" MILLING
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

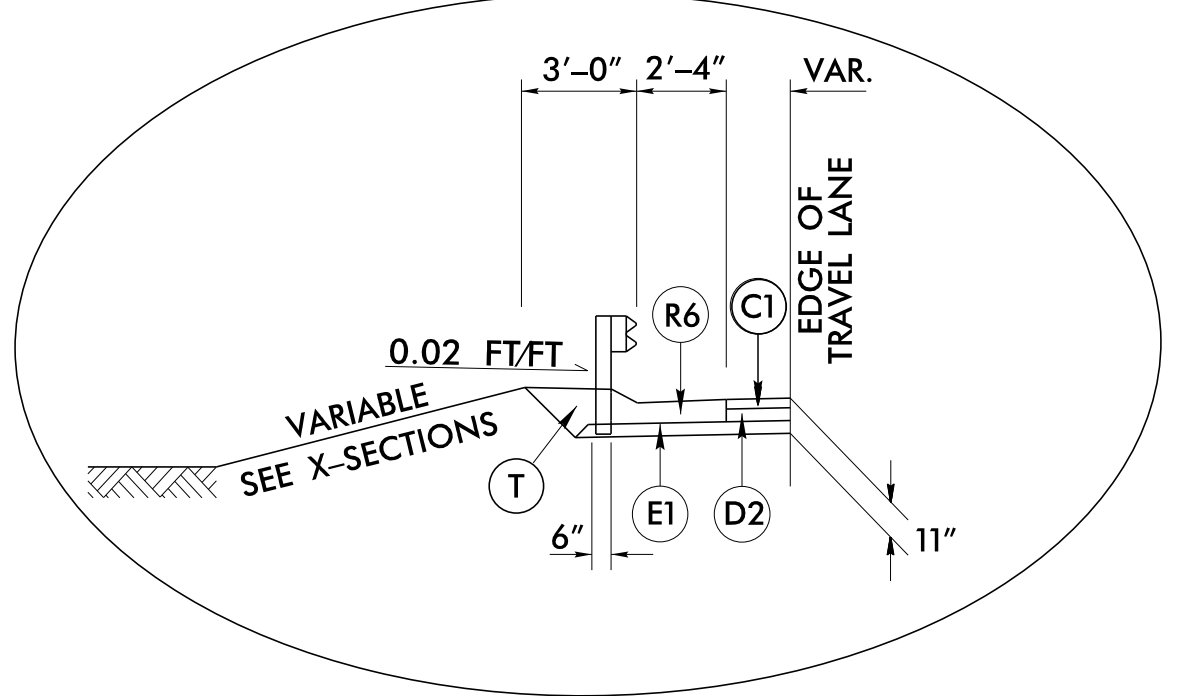


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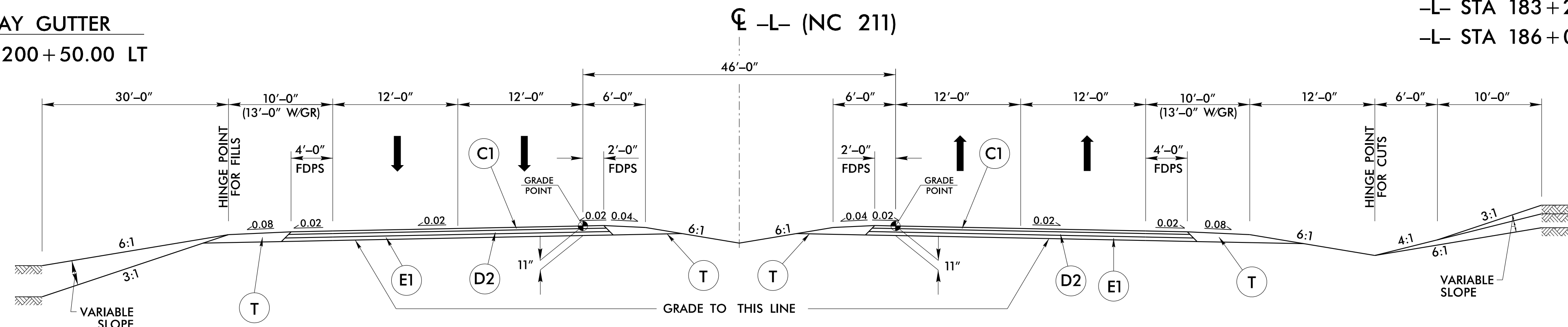
USE TYPICAL SECTION NO. 6:  
 -L- STA 175+00.00 TO 183+00.00  
 -L- STA 192+50.00 TO 248+62.58



**DETAIL FOR EXPRESSWAY GUTTER**  
 -L- STA 196+00.00 TO 200+50.00 LT



**DETAIL FOR SHOULDER BERM GUTTER  
 IN CONJUNCTION WITH GUARDRAIL**  
 -L- STA 183+25.00 TO 194+00.00 RT  
 -L- STA 186+00.00 TO 192+25.00 LT



**TYPICAL SECTION NO. 7**

USE TYPICAL SECTION NO. 7:  
 -L- STA 183+00.00 TO 192+50.00

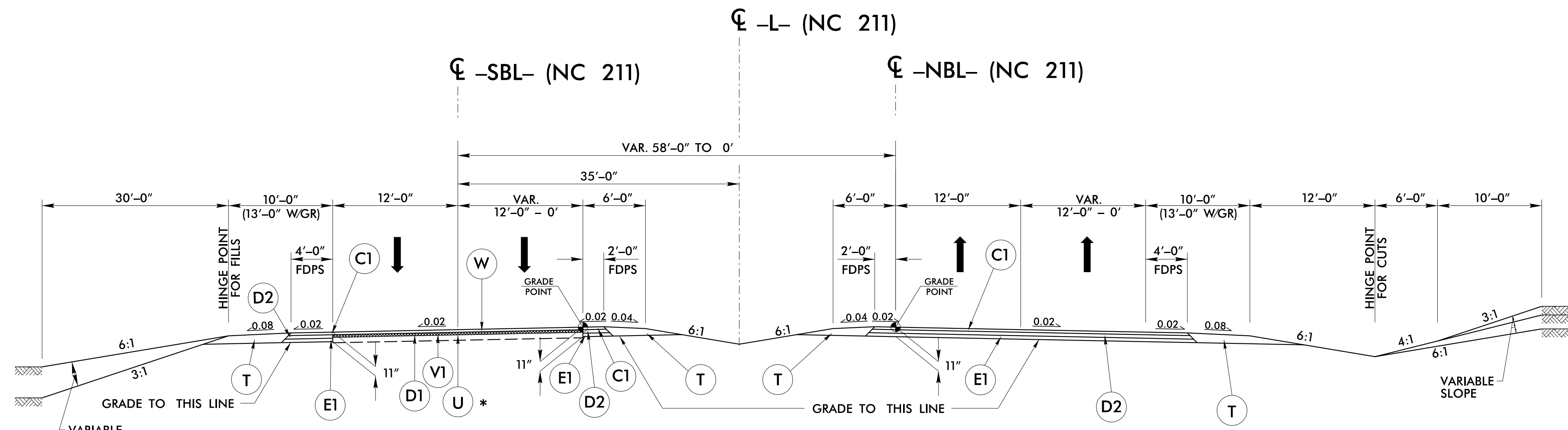
PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-4</i>
ROADWAY DESIGN ENGINEER <i>DAVID WALKER</i> SEAL 22606 13-AUG-2009	PAVEMENT DESIGN ENGINEER <i>SHOUHUA ZHANG</i> SEAL 038176 14-AUG-2009
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD 1 & E, LLC Raleigh, NC 27606 License No. F-06697 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmcc.com

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
 NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
 FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
 FOR ISLAND LIMITS SEE PLAN VIEW.

6/2/2019

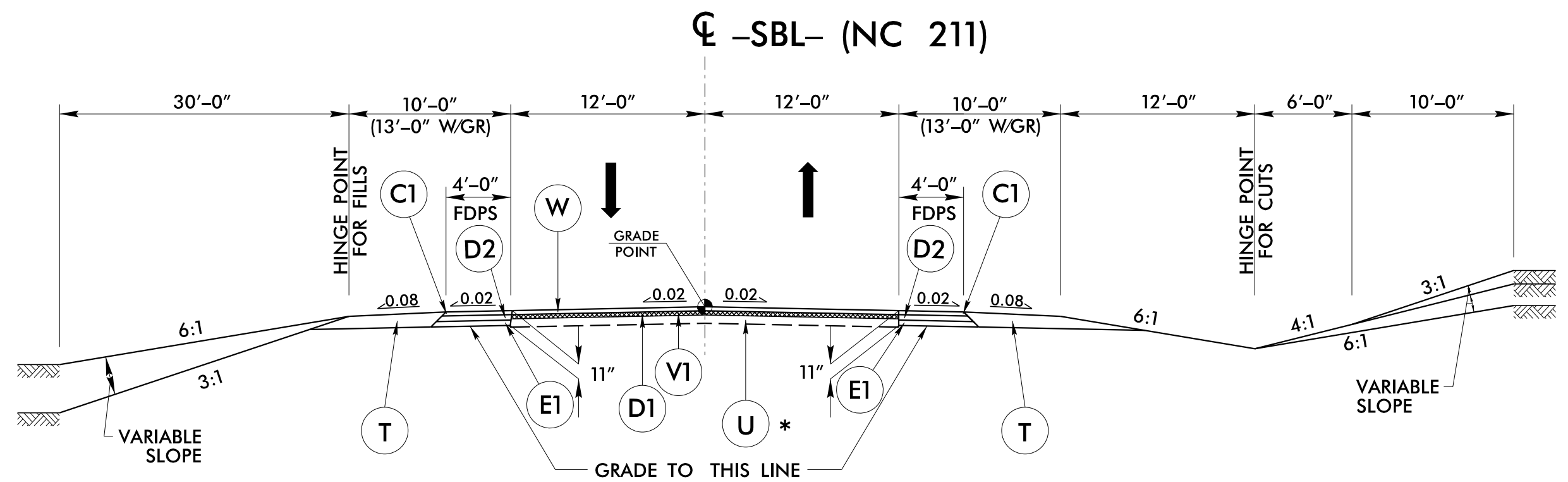
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
E1	4" B25.0C
R2	2'-6" C & G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



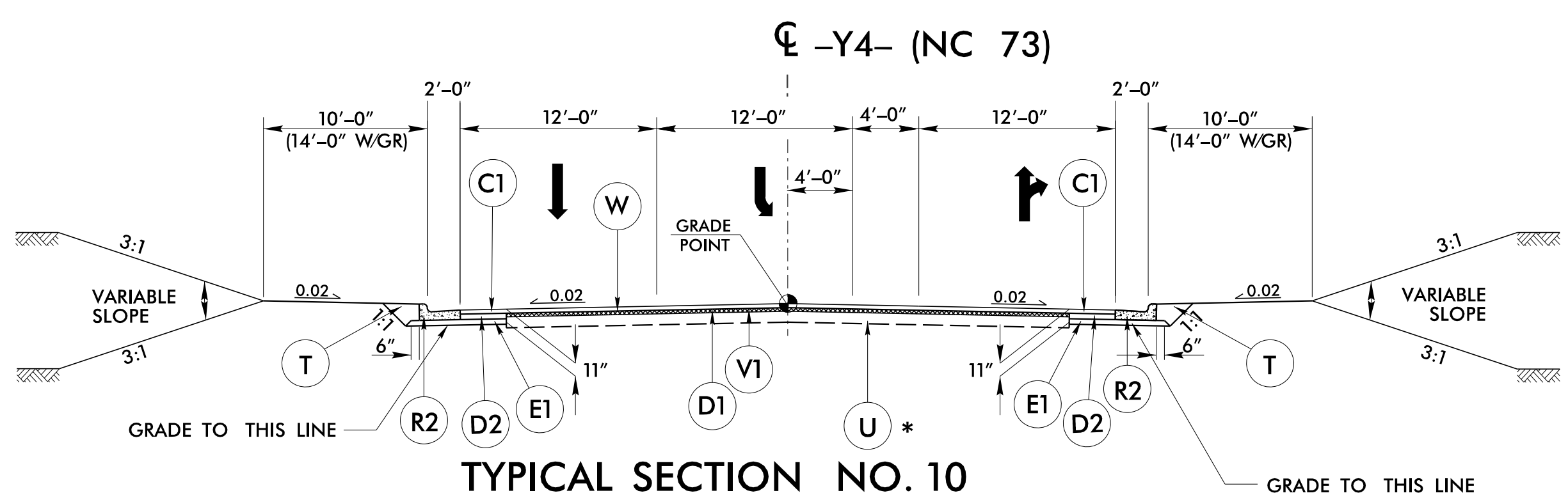
**TYPICAL SECTION NO. 8**

USE TYPICAL SECTION NO. 8:  
 -SBL- STA 10+00.00 TO 22+14.49  
 -NBL- STA 10+00.00 TO 22+24.76



**TYPICAL SECTION NO. 9**

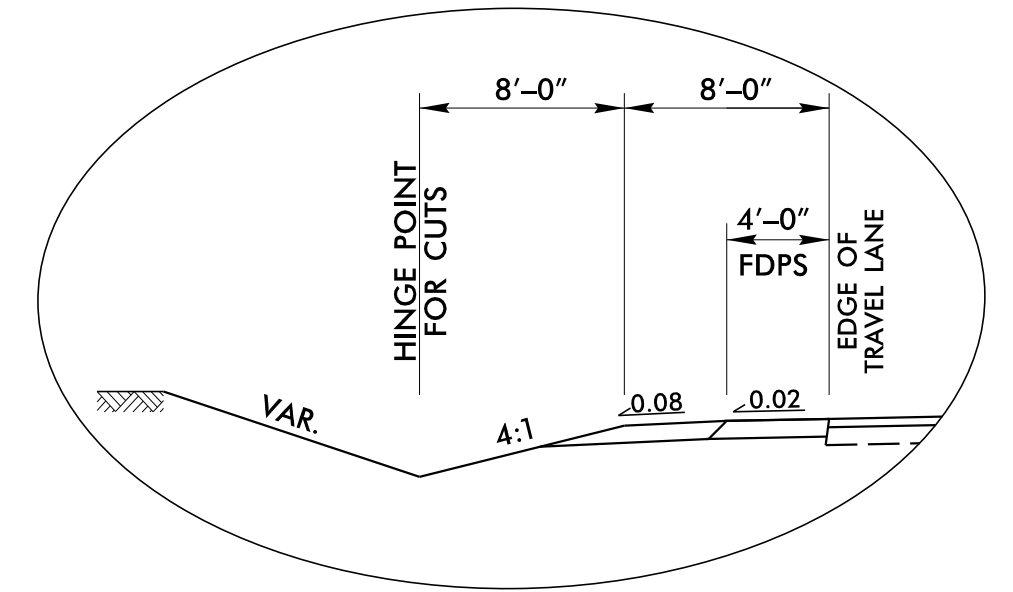
USE TYPICAL SECTION NO. 9:  
 -SBL- STA 22+14.49 TO 24+00.00



**TYPICAL SECTION NO. 10**

USE TYPICAL SECTION NO. 10:  
 -Y4- STA 10+38.89 TO 12+50.00

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-5</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	PAVEMENT DESIGN ENGINEER <i>[Signature]</i>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of: 	



**DITCH DETAIL**  
 -SBL- STA 19+25.00 TO 24+00.00 LT

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
 NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
 FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
 FOR ISLAND LIMITS SEE PLAN VIEW.

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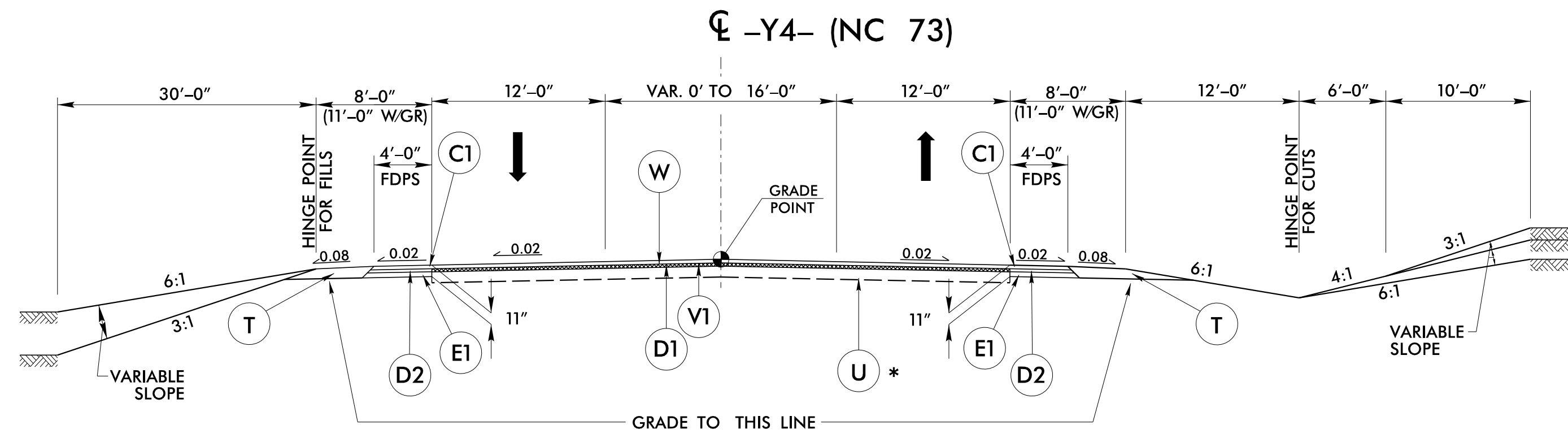


6/2/2019

PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
E1	4" B25.0C
R2	2'-6" C & G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
W	WEDGING

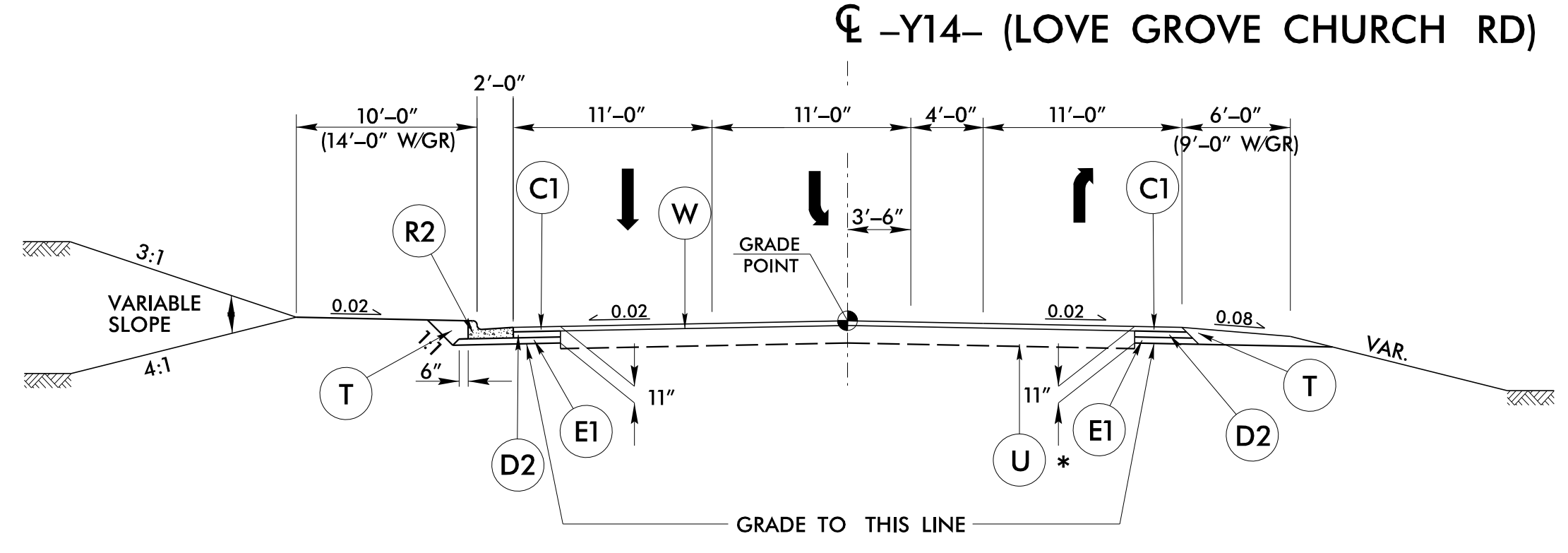
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-6</i>
ROADWAY DESIGN ENGINEER <i>DAVID WALKER</i>	PAVEMENT DESIGN ENGINEER <i>SHUNGHAI ZHANG</i>
<p><b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b></p>	
Prepared in the Office of:	
	<p>MOTT MACDONALD 1 &amp; E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmcc.com</p>



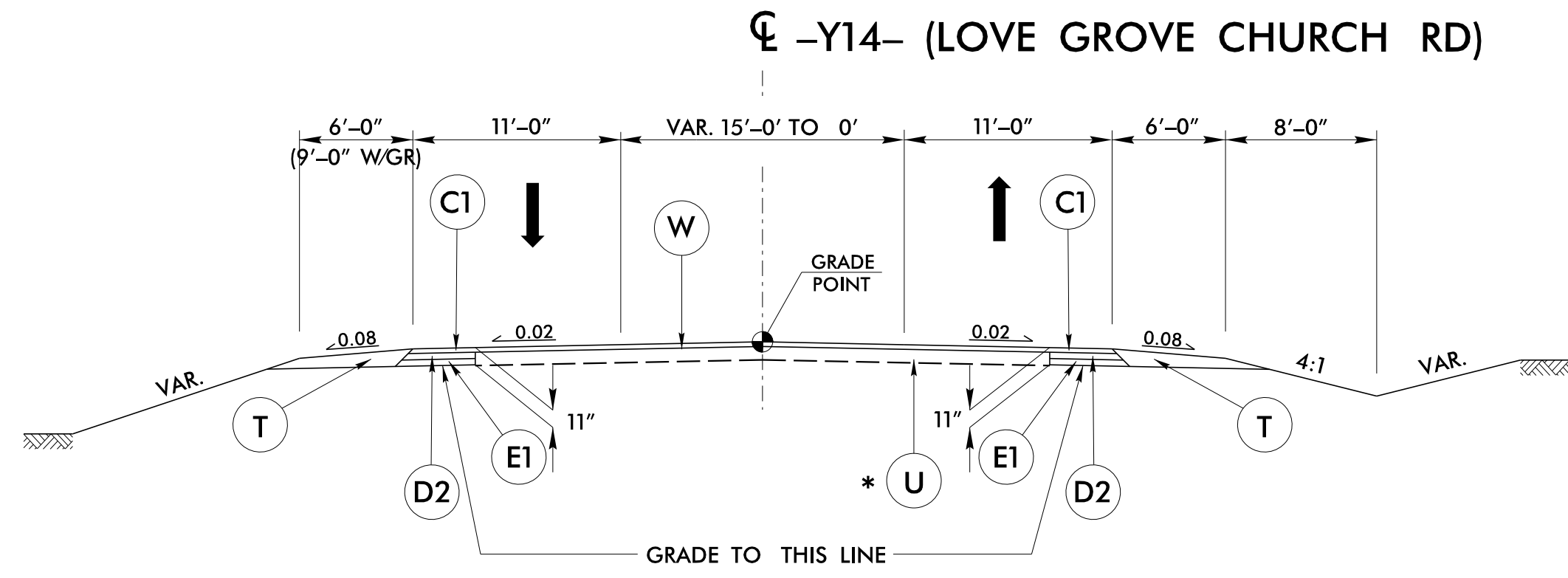
**TYPICAL SECTION NO. 11**

USE TYPICAL SECTION NO. 11:  
-Y4- STA 12+50.00 TO 18+25.00



**TYPICAL SECTION NO. 12**

USE TYPICAL SECTION NO. 12:  
-Y14- STA 10+38.80 TO 12+00.00



**TYPICAL SECTION NO. 13**

USE TYPICAL SECTION NO. 13:  
-Y14- STA 12+00.00 TO 16+70.00

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
FOR ISLAND LIMITS SEE PLAN VIEW.

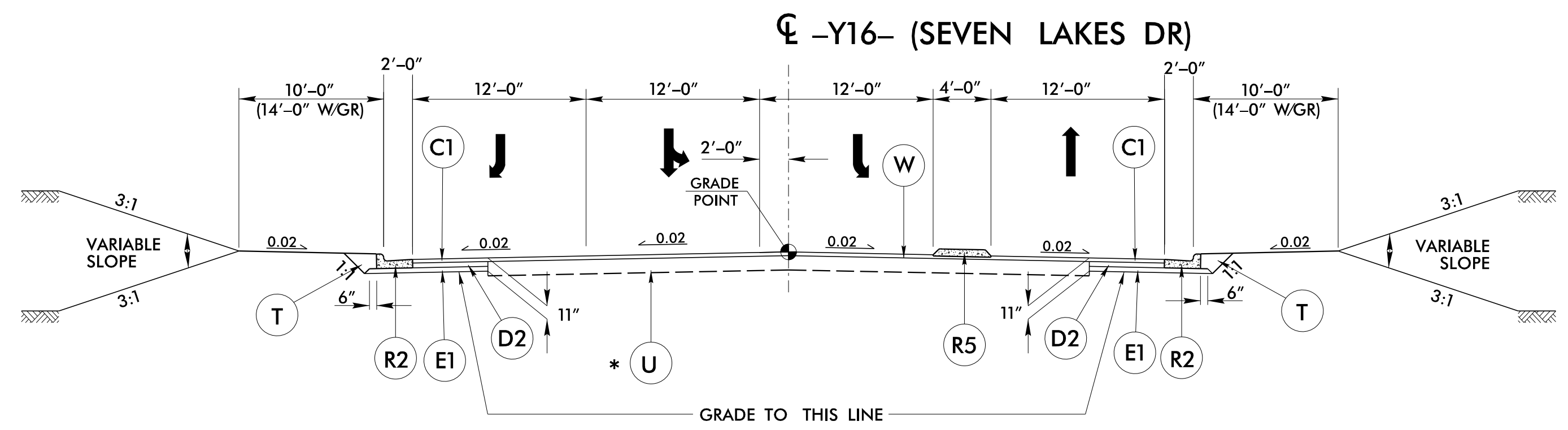
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6/2/2019

PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
R2	2'-6" C & G
R5	5" MONO. ISLAND
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

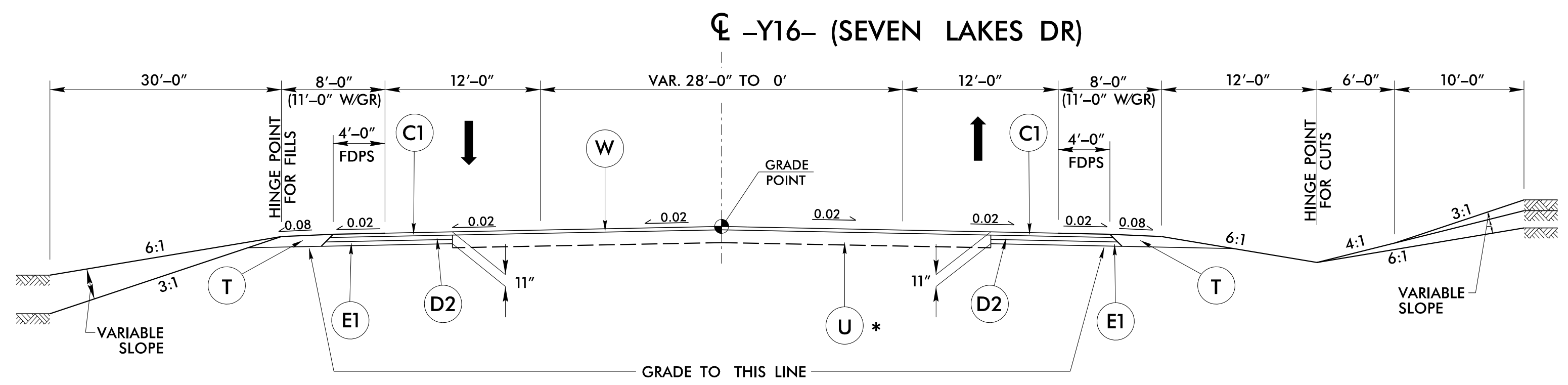
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-7</i>
ROADWAY DESIGN ENGINEER <i>DAVID J. WALKER</i> 13-Aug-2019 MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	PAVEMENT DESIGN ENGINEER <i>SHUNGHAI ZHANG</i> 14-Aug-2019 MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD I & E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com



**TYPICAL SECTION NO. 14**

USE TYPICAL SECTION NO. 14:  
 -Y16- STA 10+37.50 TO 13+29.50 RT  
 -Y16- STA 10+37.50 TO 13+09.80 LT



**TYPICAL SECTION NO. 15**

USE TYPICAL SECTION NO. 15:  
 -Y16- STA 13+29.50 TO 17+25.00 RT  
 -Y16- STA 13+09.80 TO 17+25.00 LT

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
 NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
 FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
 FOR ISLAND LIMITS SEE PLAN VIEW.

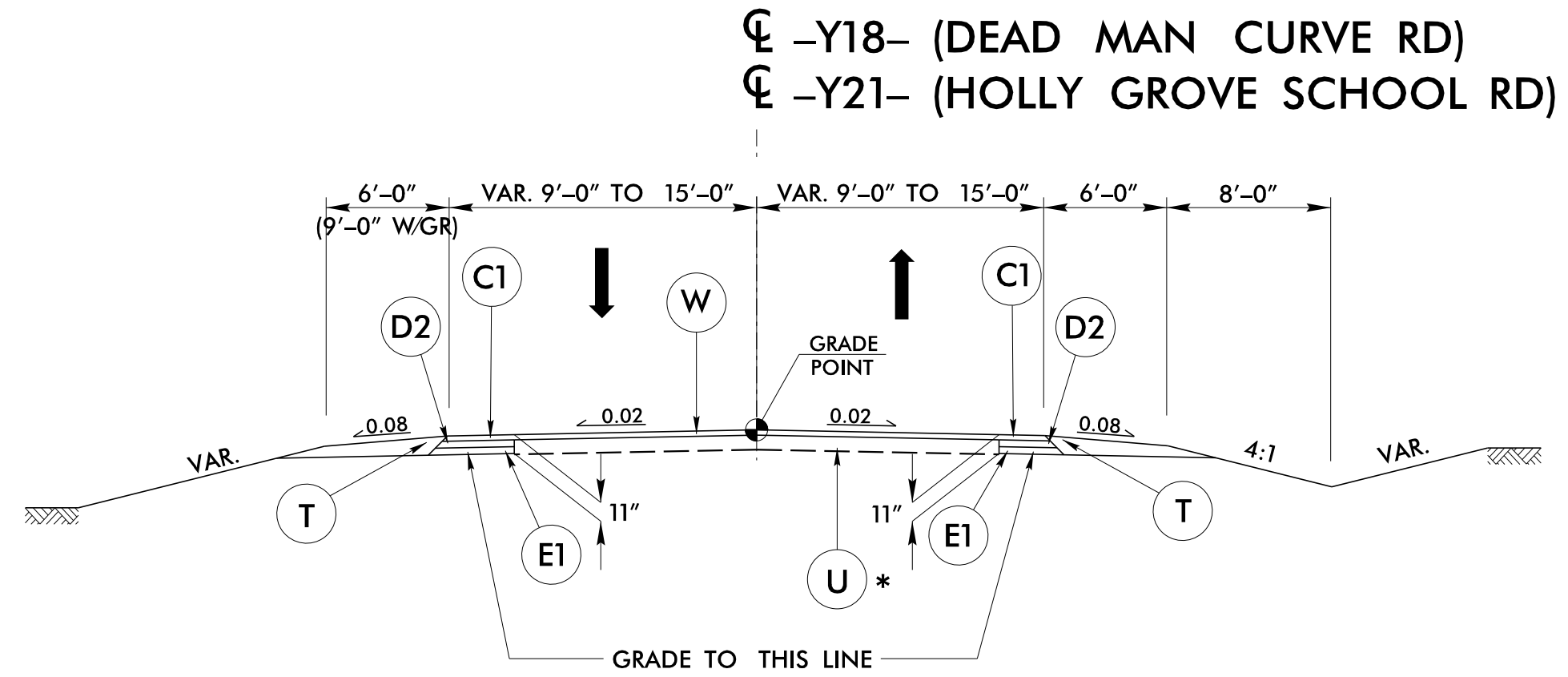
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6/2/2019

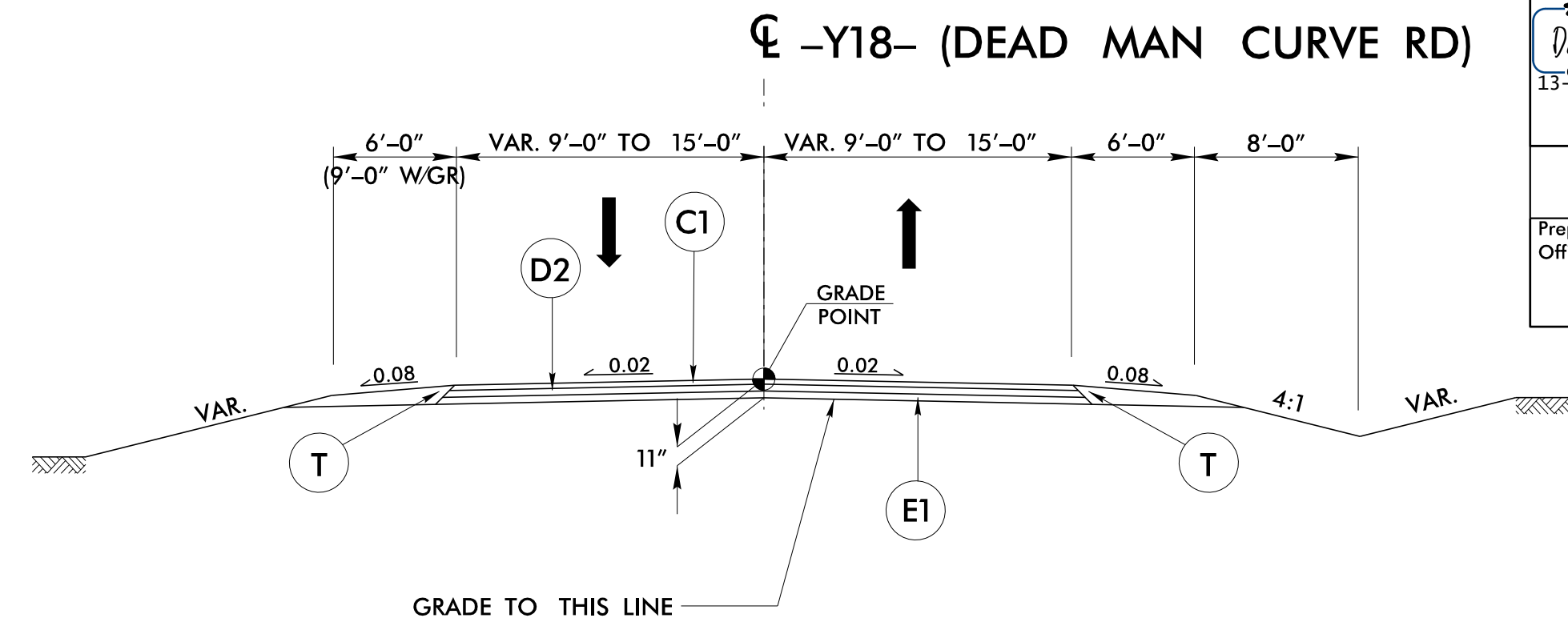
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
R2	2'-6" C & G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



**TYPICAL SECTION NO. 16**

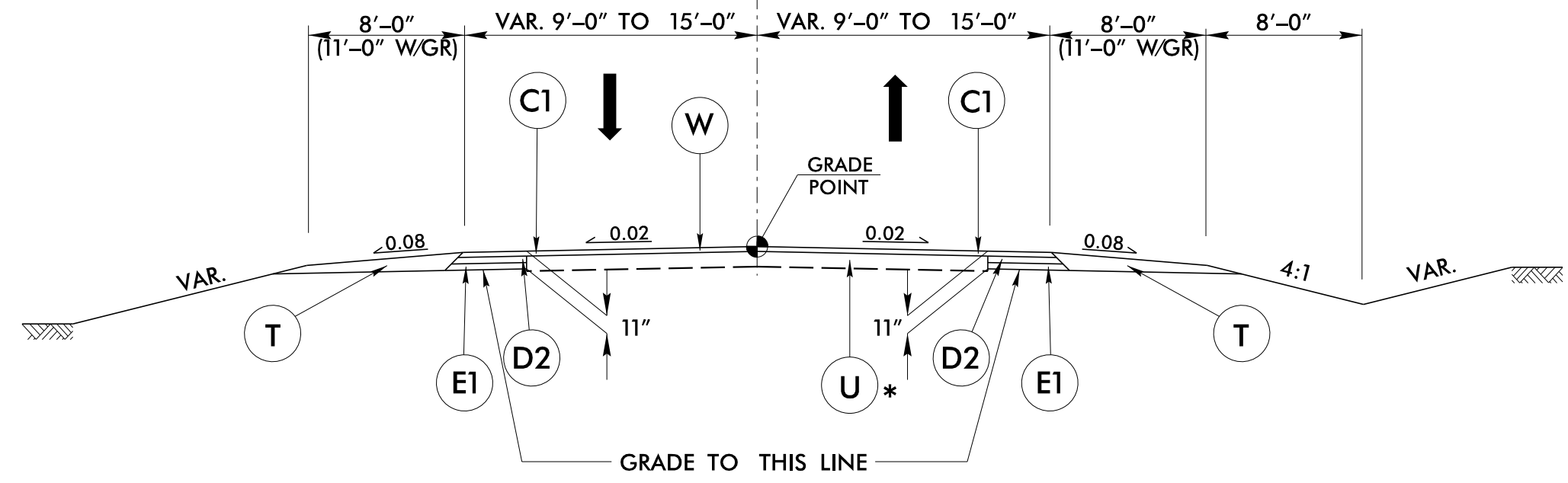
USE TYPICAL SECTION NO. 16:  
 -Y18- STA 10+50.00 TO 11+92.07  
 -Y21- STA 10+47.05 TO 12+50.00



**TYPICAL SECTION NO. 17**

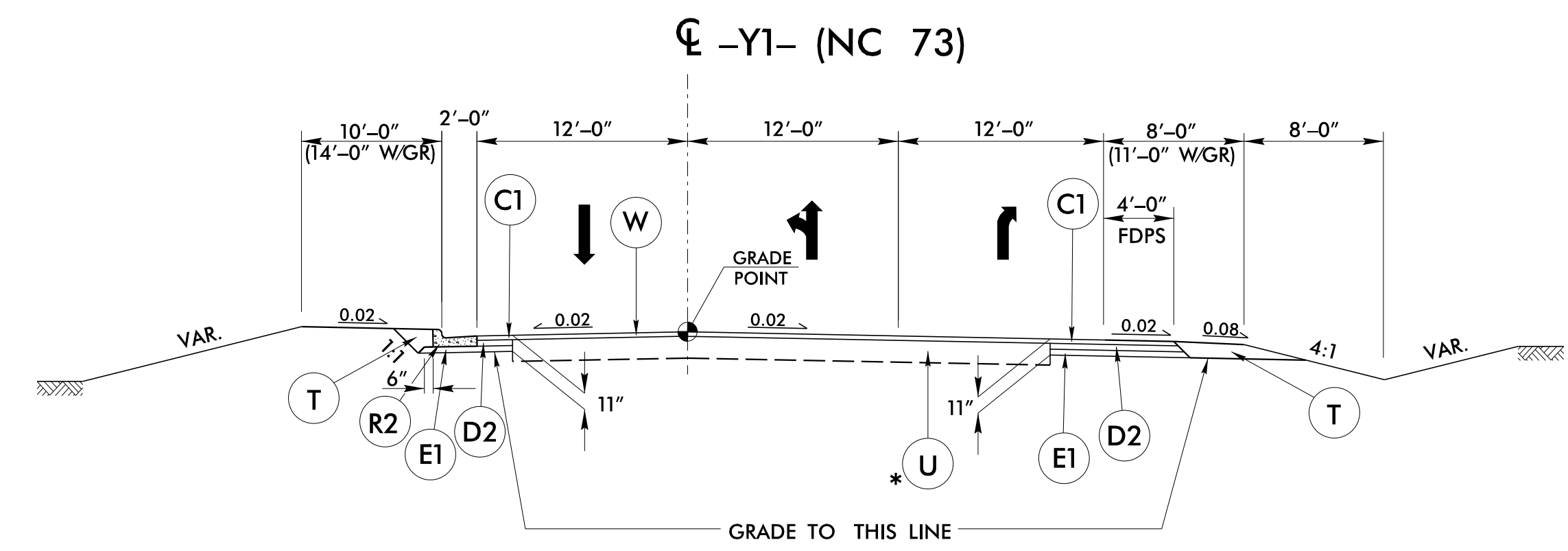
USE TYPICAL SECTION NO. 17:  
 -Y18- STA 11+92.07 TO 12+74.71

- ☐ -Y3- (MODE RD)
- ☐ -Y8- (VON CANON DR)
- ☐ -Y9- (PINWOOD ST)
- ☐ -Y10- (CHURCH ST)
- ☐ -Y12- (KNOX LN)
- ☐ -Y13- (PINE RIDGE LN)
- ☐ -Y17- (MACDOOGAL DR)
- ☐ -Y20- (DEAD MAN CURVE RD)



**TYPICAL SECTION NO. 18**

USE TYPICAL SECTION NO. 18:  
 -Y3- STA 13+10.00 TO 14+57.29  
 -Y8- STA 10+37.51 TO 12+00.00  
 -Y9- STA 10+38.08 TO 11+65.00  
 -Y10- STA 10+37.50 TO 11+25.00  
 -Y12- STA 11+75.00 TO 12+71.74  
 -Y13- STA 12+55.00 TO 13+01.73  
 -Y17- STA 10+37.58 TO 12+00.00  
 -Y20- STA 13+50.00 TO 14+38.74



**TYPICAL SECTION NO. 19**

USE TYPICAL SECTION NO. 19:  
 -Y1- STA 16+70.00 TO 17+49.76

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-8</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	PAVEMENT DESIGN ENGINEER <i>[Signature]</i>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of: <b>M</b> MOTT MACDONALD 1 & E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmcc.com	

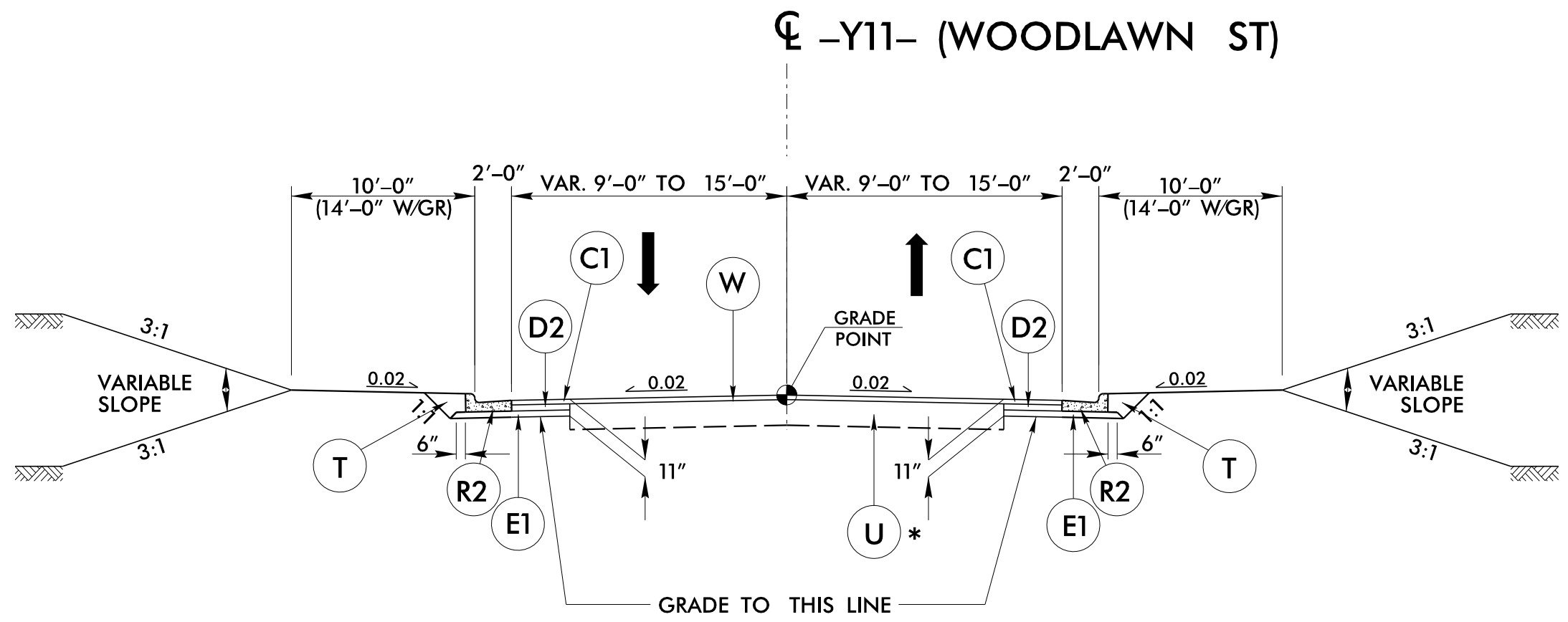
\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
 NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
 FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
 FOR ISLAND LIMITS SEE PLAN VIEW.

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6/2/2019

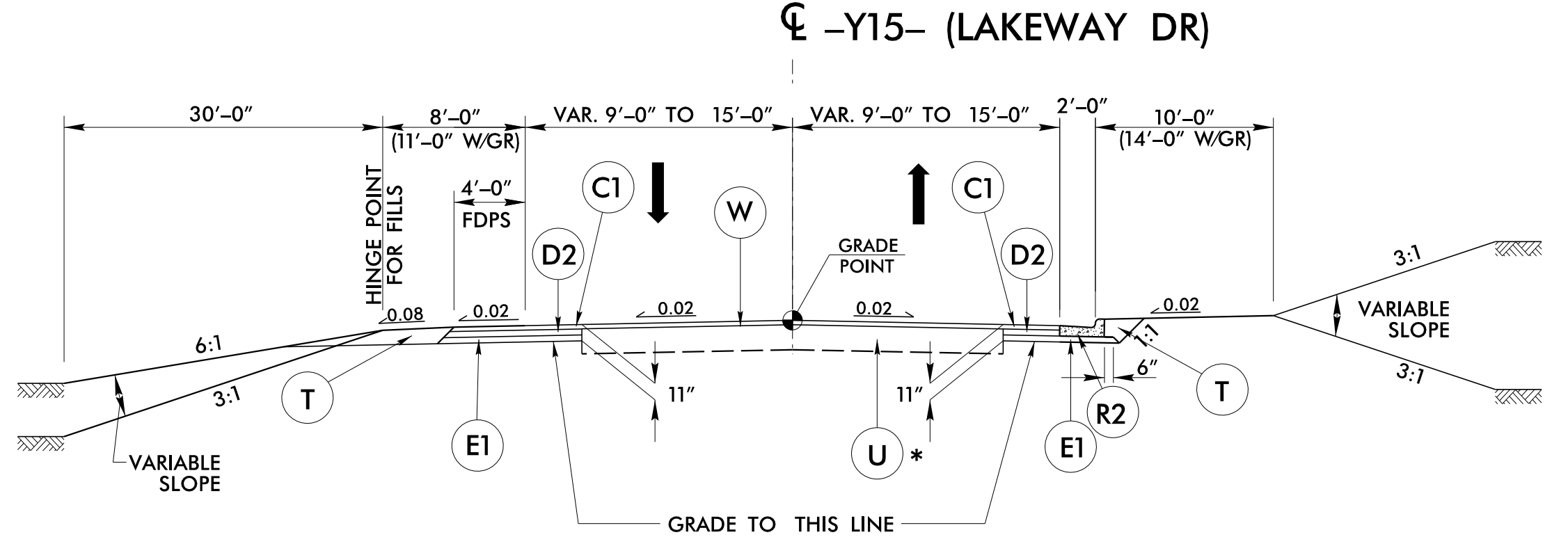
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
D2	4" I19.0C
E1	4" B25.0C
R2	2'-6" C & G
R4	1'-6" C & G (SPECIAL)
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



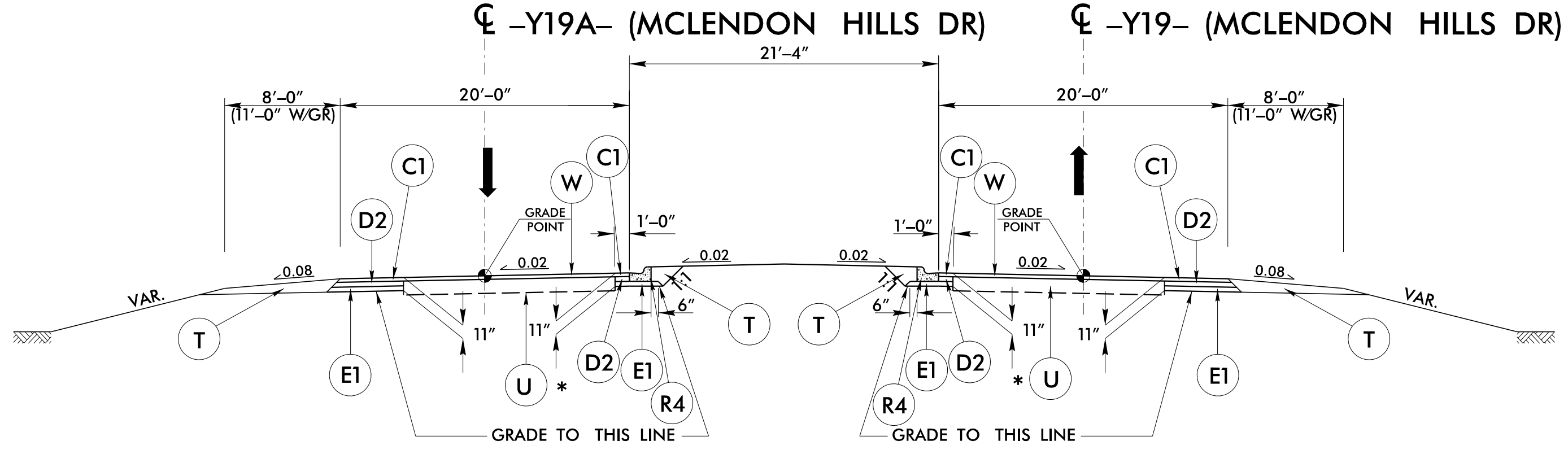
**TYPICAL SECTION NO. 20**

USE TYPICAL SECTION NO. 20:  
-Y11- STA 10+37.50 TO 11+25.00



**TYPICAL SECTION NO. 21**

USE TYPICAL SECTION NO. 21:  
-Y15- STA 13+40.00 TO 13+68.41



**TYPICAL SECTION NO. 22**

USE TYPICAL SECTION NO. 22:  
-Y19- STA 10+47.11 TO 11+02.00

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-9</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	PAVEMENT DESIGN ENGINEER <i>[Signature]</i>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of: <b>M</b> MOTT MACDONALD	
930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmcc.com	

\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
FOR ISLAND LIMITS SEE PLAN VIEW.

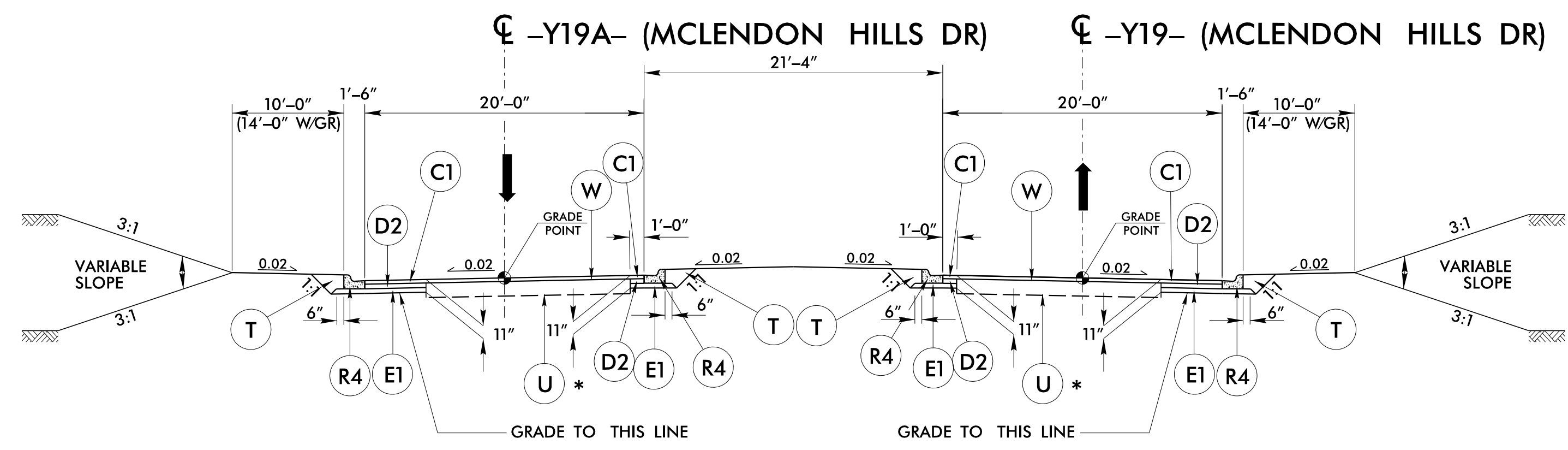
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6/2/09

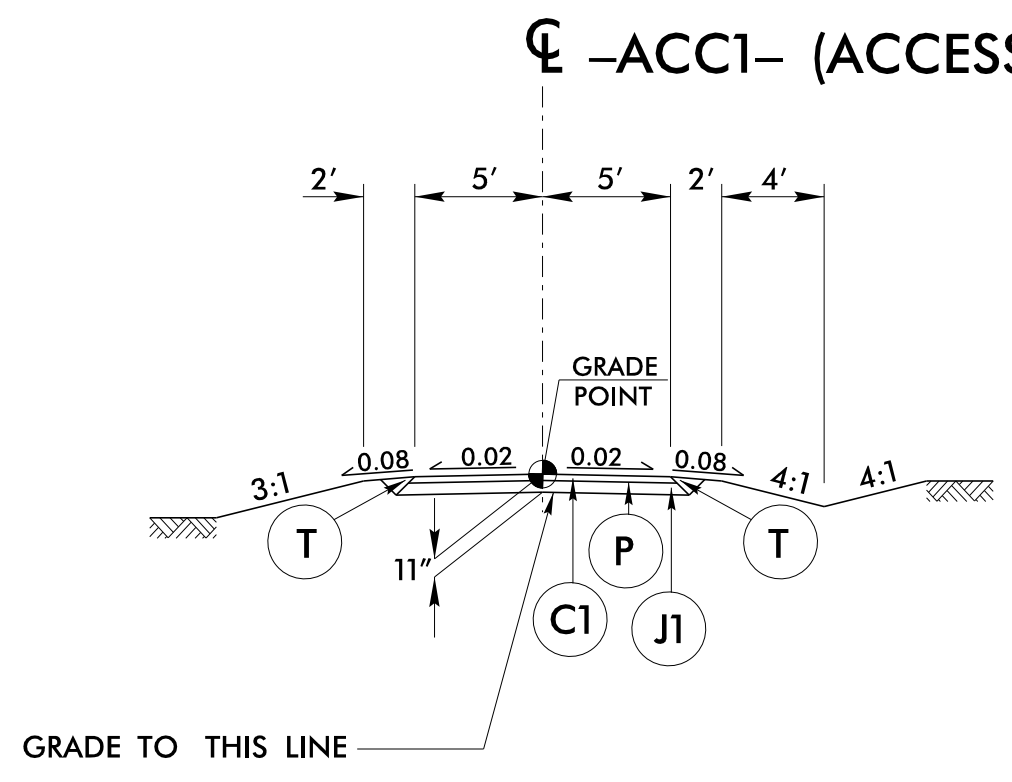
PAVEMENT SCHEDULE FINAL PAVEMENT DESIGN	
C1	3" S9.5C
C2	VAR. S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
E1	4" B25.0C
E2	VAR. B25.0C
J1	8" ABC
P	PRIME COAT
R4	1'-6" C & G (SPECIAL)
R7	EXPRESSWAY GUTTER
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



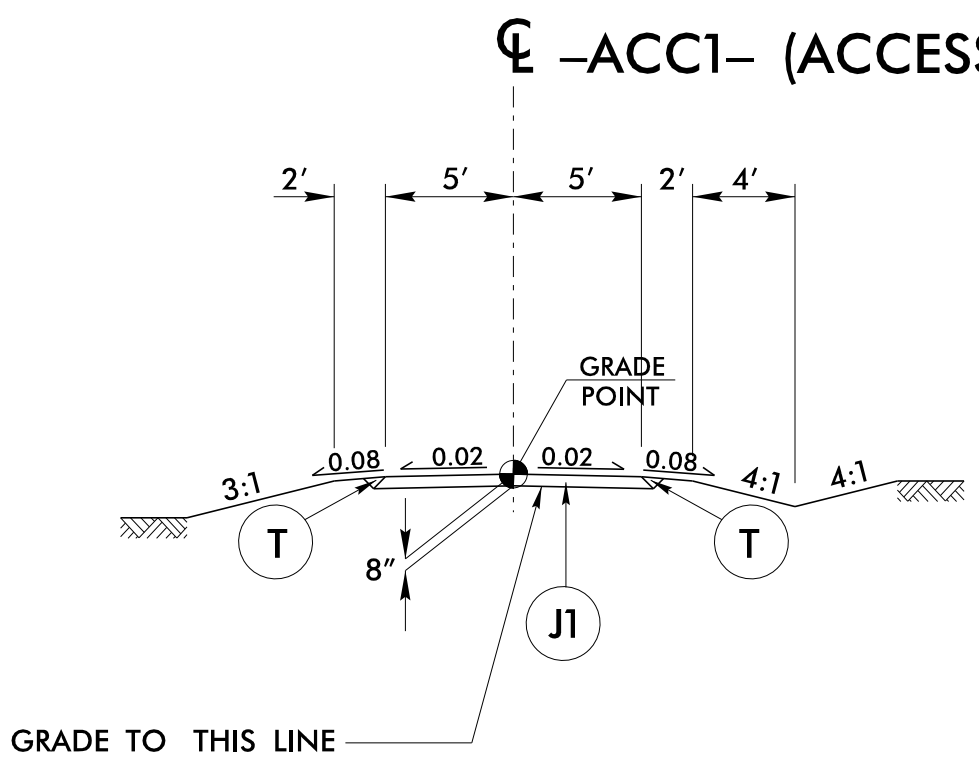
**TYPICAL SECTION NO. 23**

USE TYPICAL SECTION NO. 23:  
-Y19- STA 11+02.00 TO 11+40.00



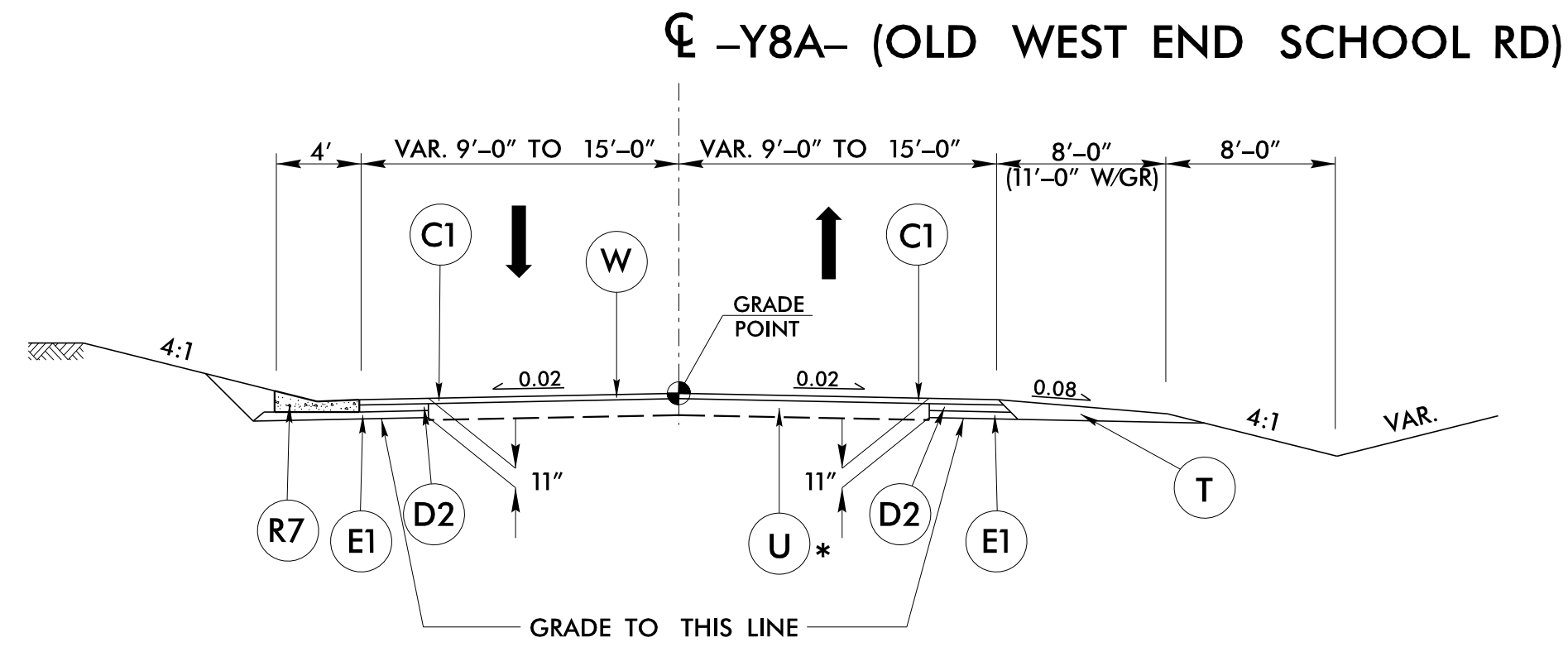
**TYPICAL SECTION NO. 24**

USE TYPICAL SECTION NO. 24:  
-ACC1- STA 10+37.67 TO 11+55.00



**TYPICAL SECTION NO. 25**

USE TYPICAL SECTION NO. 25:  
-ACC1- STA 11+55.00 TO 14+24.60



**TYPICAL SECTION NO. 26**

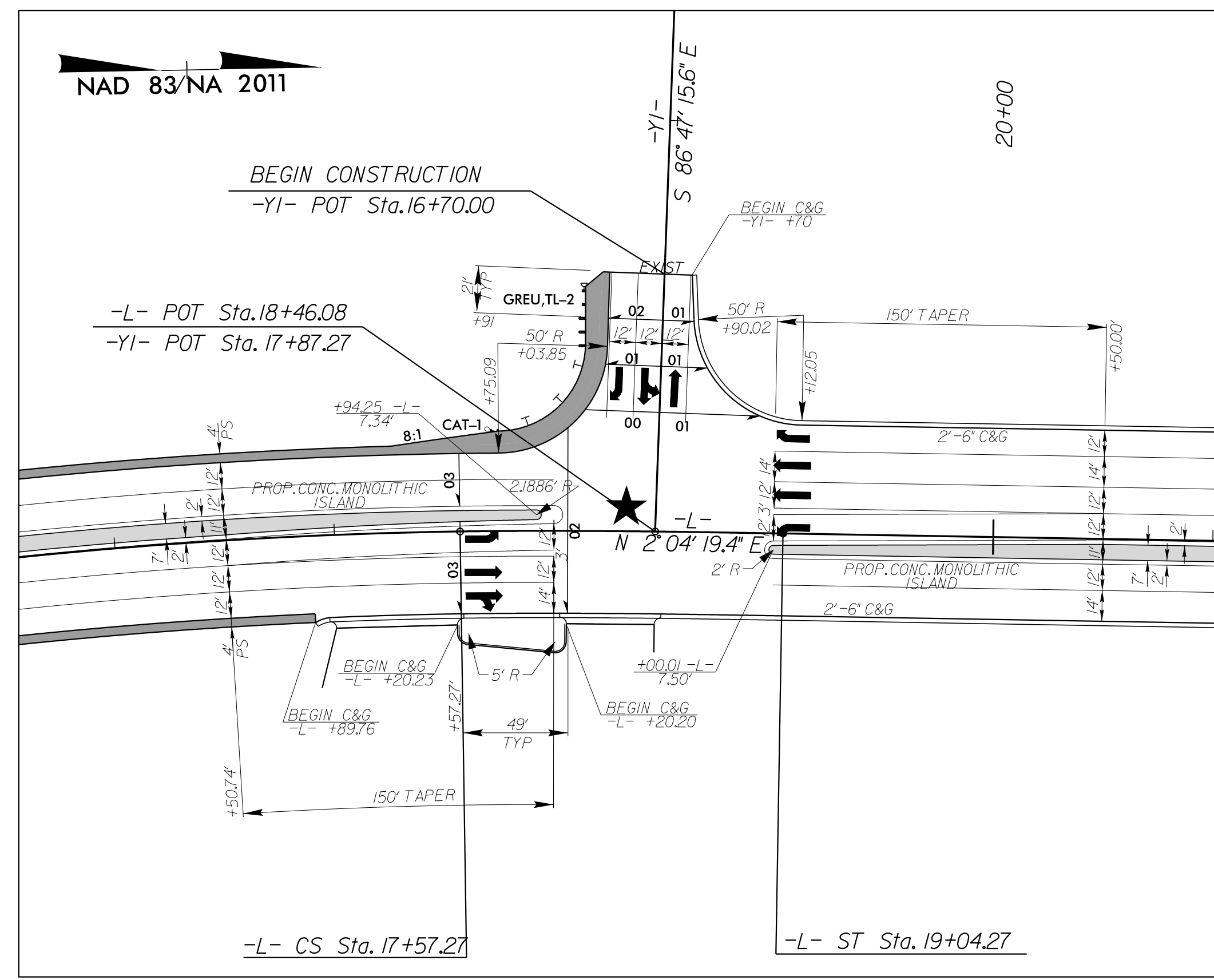
USE TYPICAL SECTION NO. 26:  
-Y8A- STA 10+00.00 TO 11+20.93

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2A-10</i>
ROADWAY DESIGN ENGINEER <i>DAVID WALKER</i>	PAVEMENT DESIGN ENGINEER <i>SHUNGHAI ZHANG</i>
<p><b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b></p>	
Prepared in the Office of:	
<p>MOTT MACDONALD 1 &amp; E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com</p>	

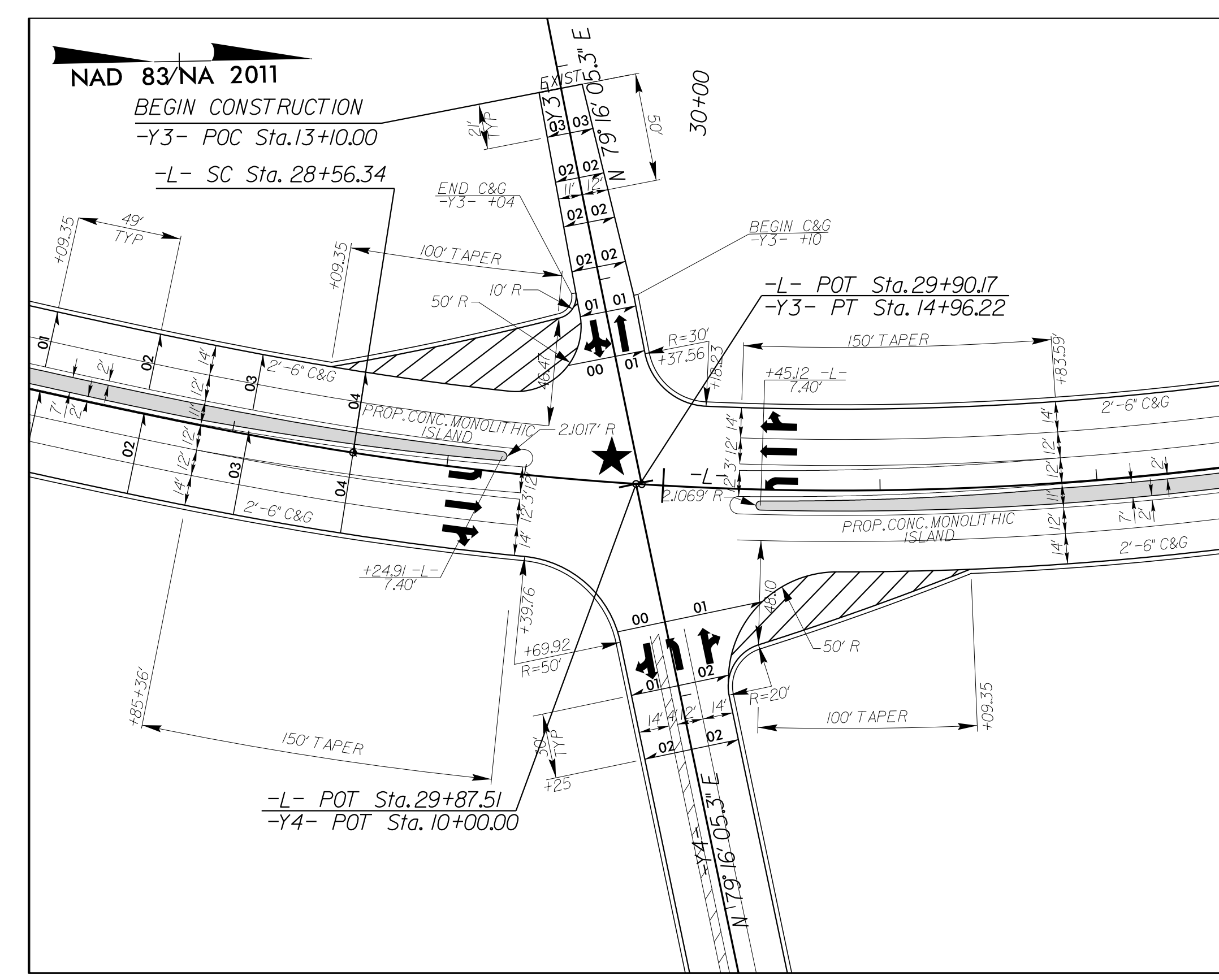
\*WIDTH AND LOCATION OF EXISTING PAVEMENT VARIES. (SEE PLANS)  
NOTE: FOR VARIABLE SLOPES SEE CROSS-SECTIONS.  
FOR TAPERS AND AUXILIARY LANES SEE PLAN VIEW.  
FOR ISLAND LIMITS SEE PLAN VIEW.

7:29:20 AM  
I:\Projects\5726\Drawings\Roadway\TYP.dgn

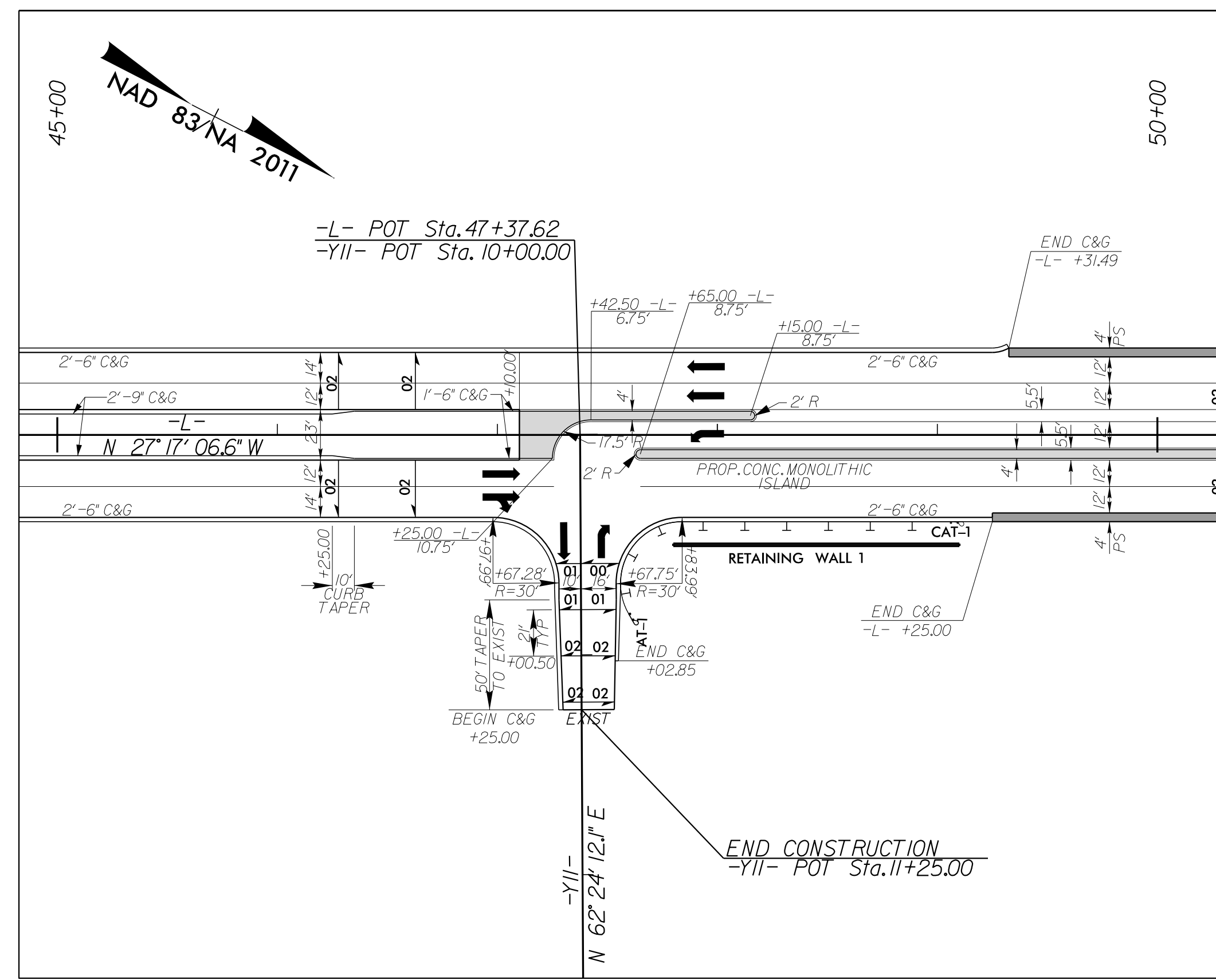
5/14/99



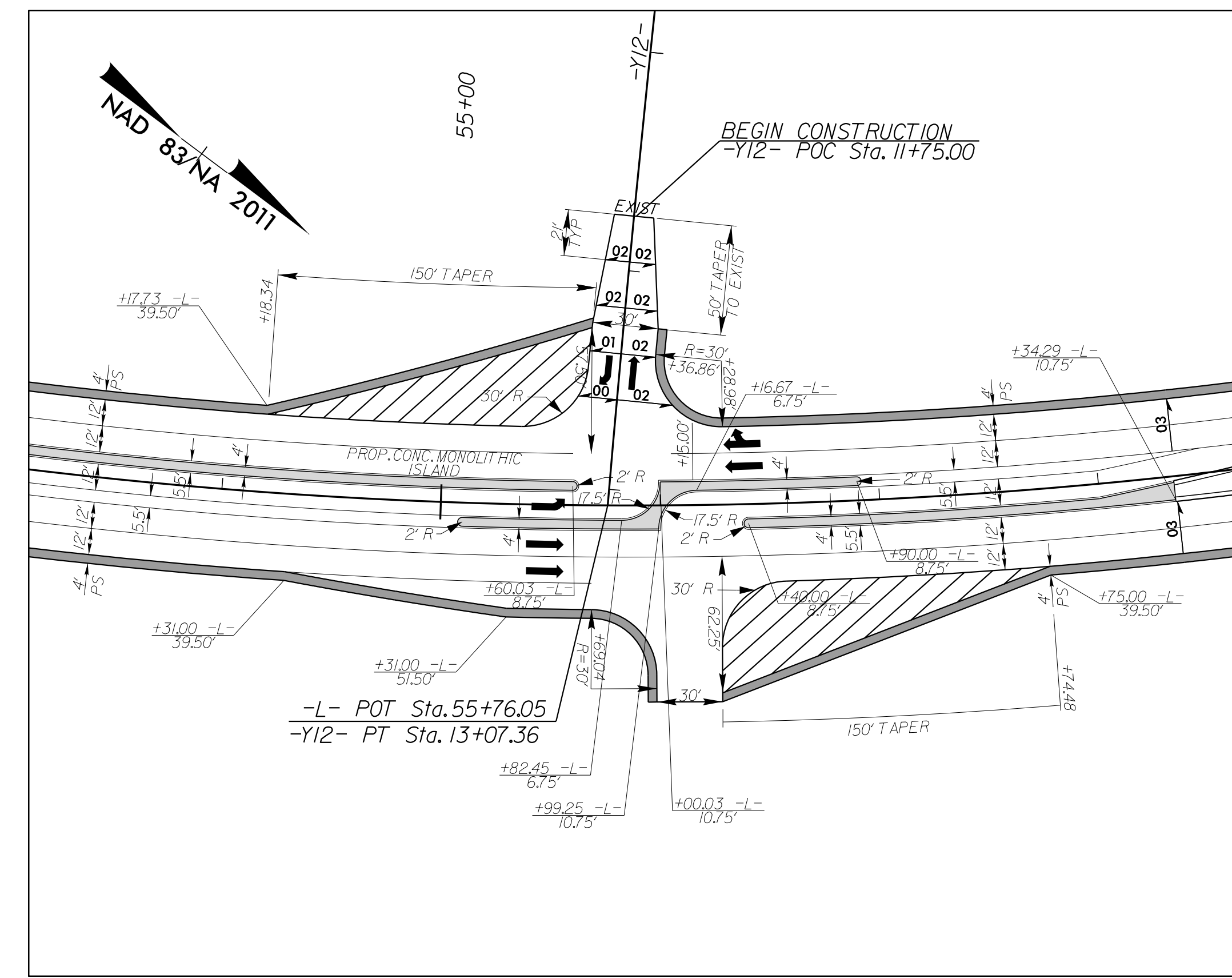
NC 211 & NC 73 (-L- & -Y1-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 4 FOR PLAN VIEW



NC 211 & NC 73 MODE RD (-L- & -Y4-/-Y3-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 5 FOR PLAN VIEW

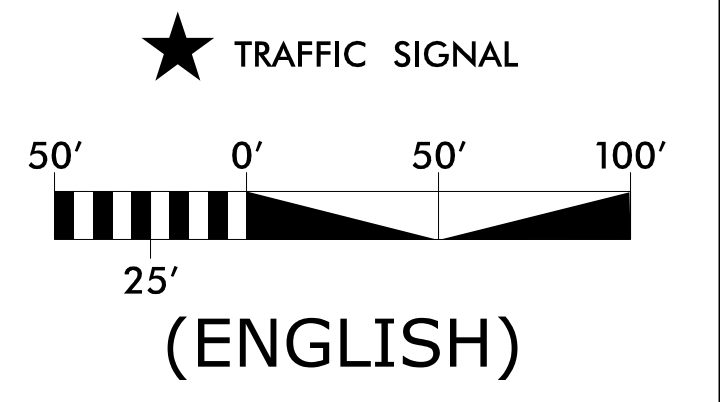


NC 211 & WOODLAWN ST (-L- & -Y11-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 7 FOR PLAN VIEW



NC 211 & KNOX LN (-L- & -Y12-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 7 FOR PLAN VIEW

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2B-1</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
MOTT MACDONALD & E. LLC LICENSE NO. F-0669	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	
930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com	

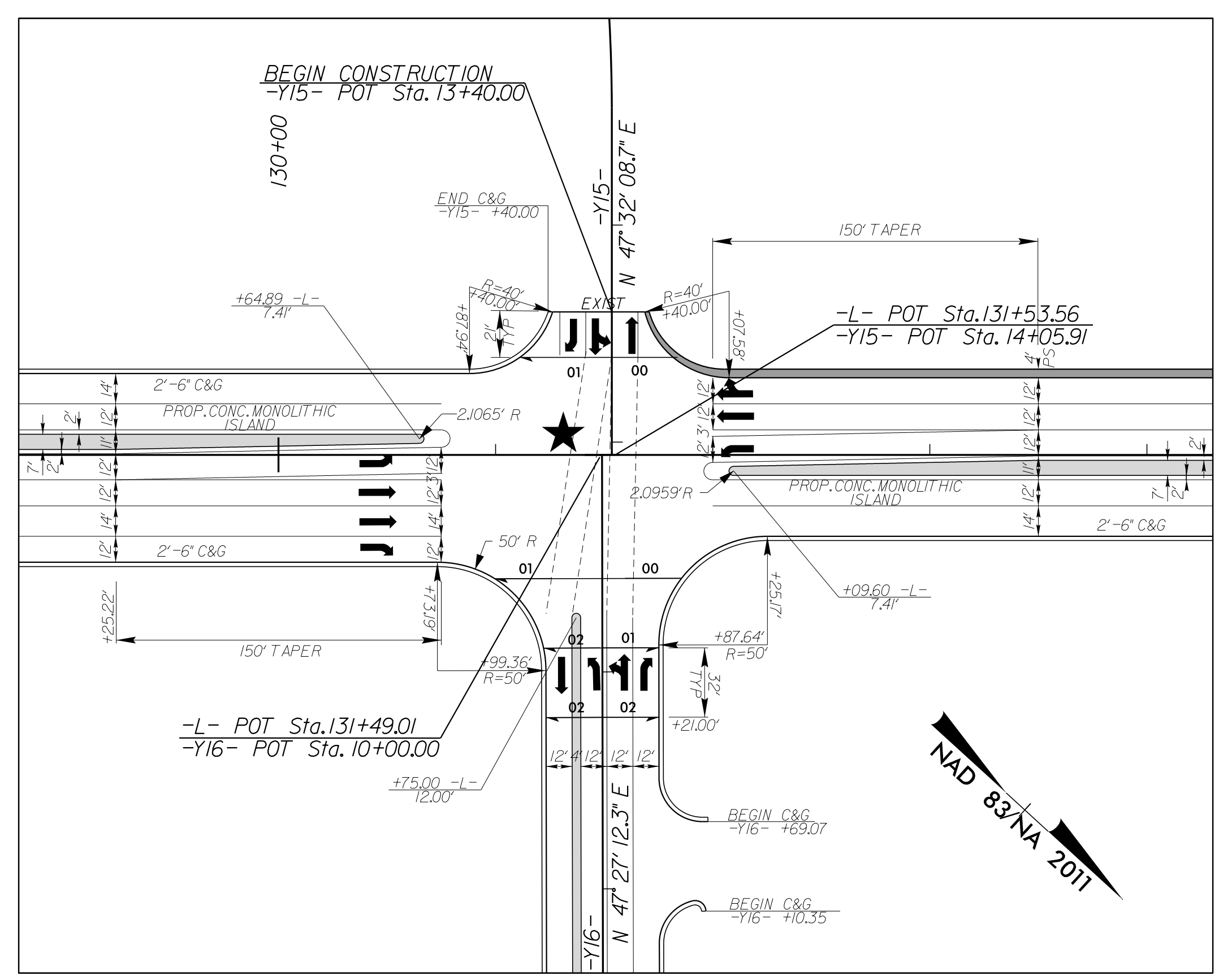


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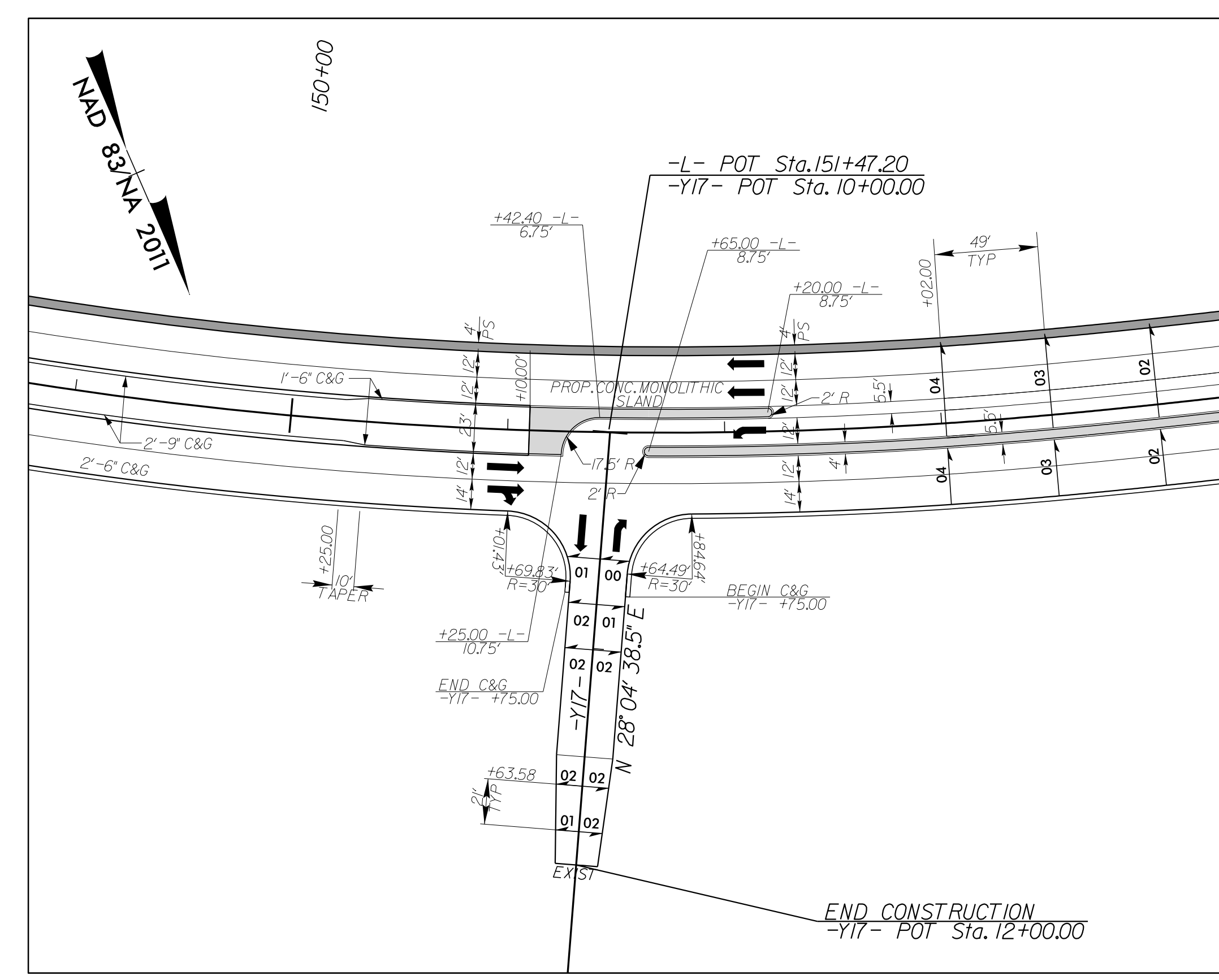




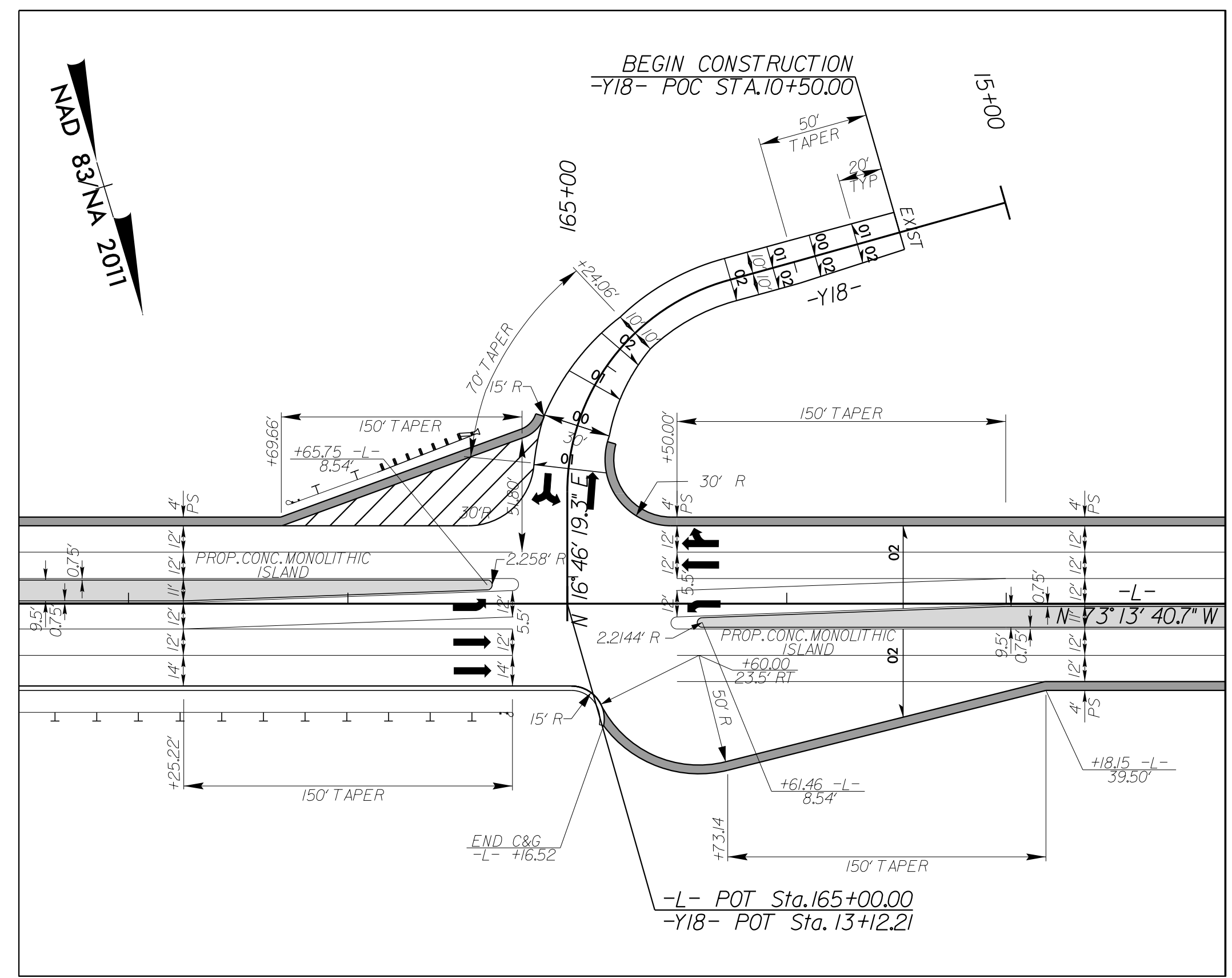
5/14/99



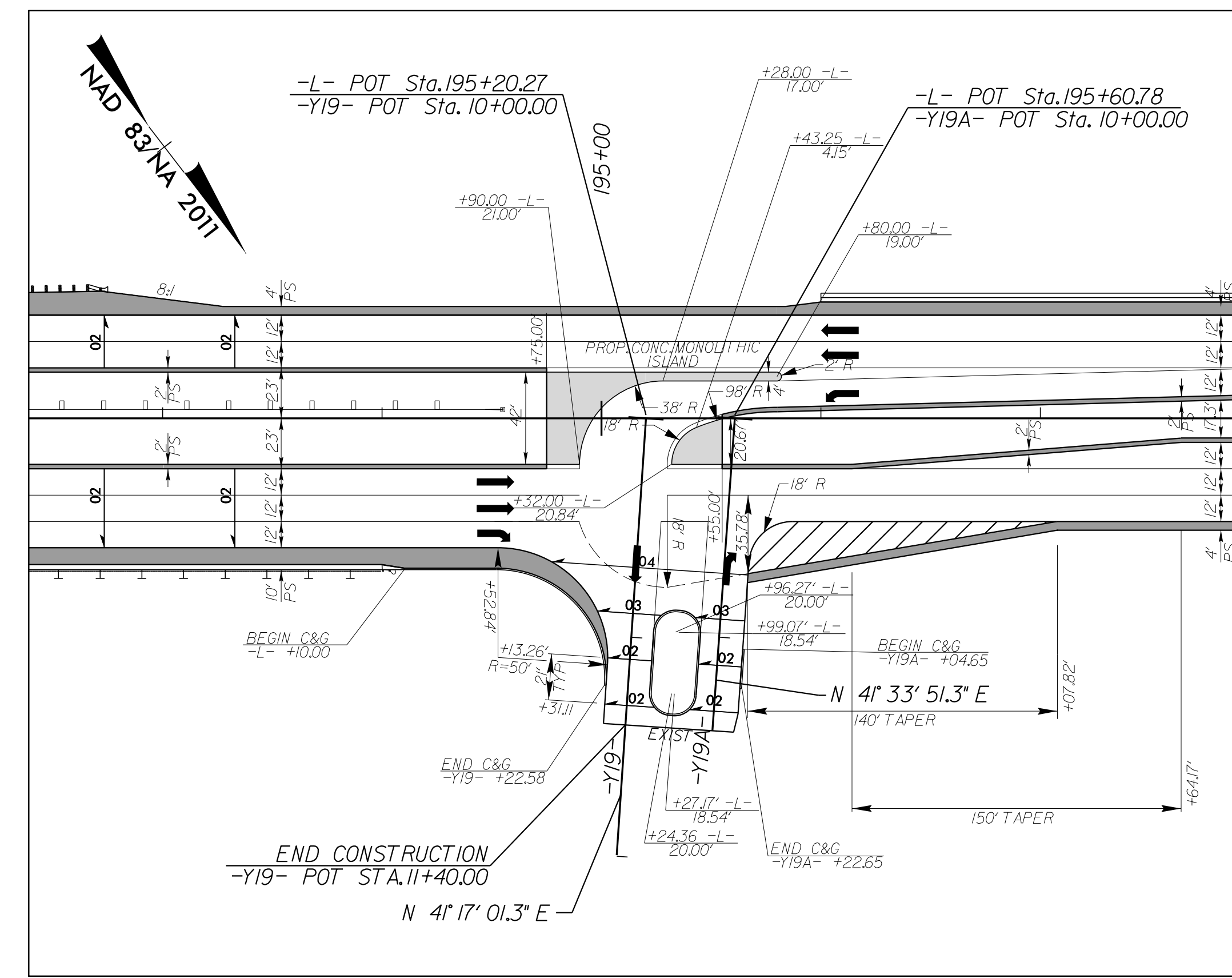
NC 211 & SEVEN LAKES DR LAKEVIEW DR (-L- & -Y16-/-Y15-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 13 FOR PLAN VIEW



NC 211 & MACDOUGALL DR (-L- & -Y17-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 14 FOR PLAN VIEW

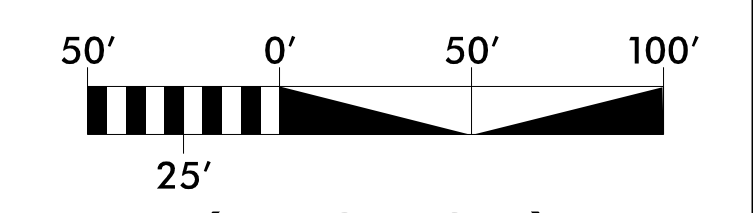


NC 211 & DEAD MAN CURVE RD (-L- & -Y18-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 15 FOR PLAN VIEW



NC 211 & MCLENDON HILLS DR (-L- & -Y19-/-Y19A-)  
INTERSECTION DETAIL  
SEE PLAN SHEET 18 FOR PLAN VIEW

PROJECT REFERENCE NO. R-5726	SHEET NO. 2B-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	
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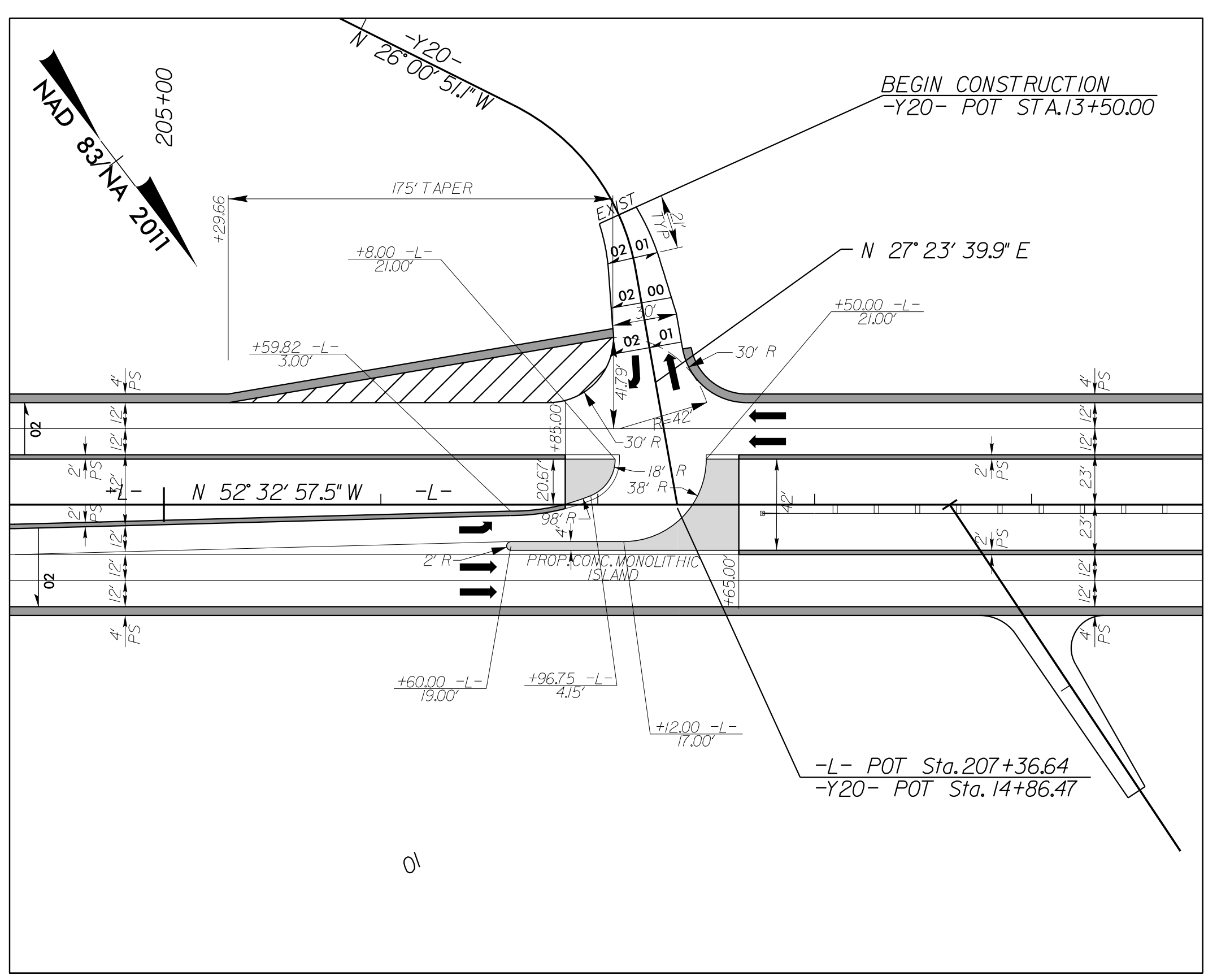


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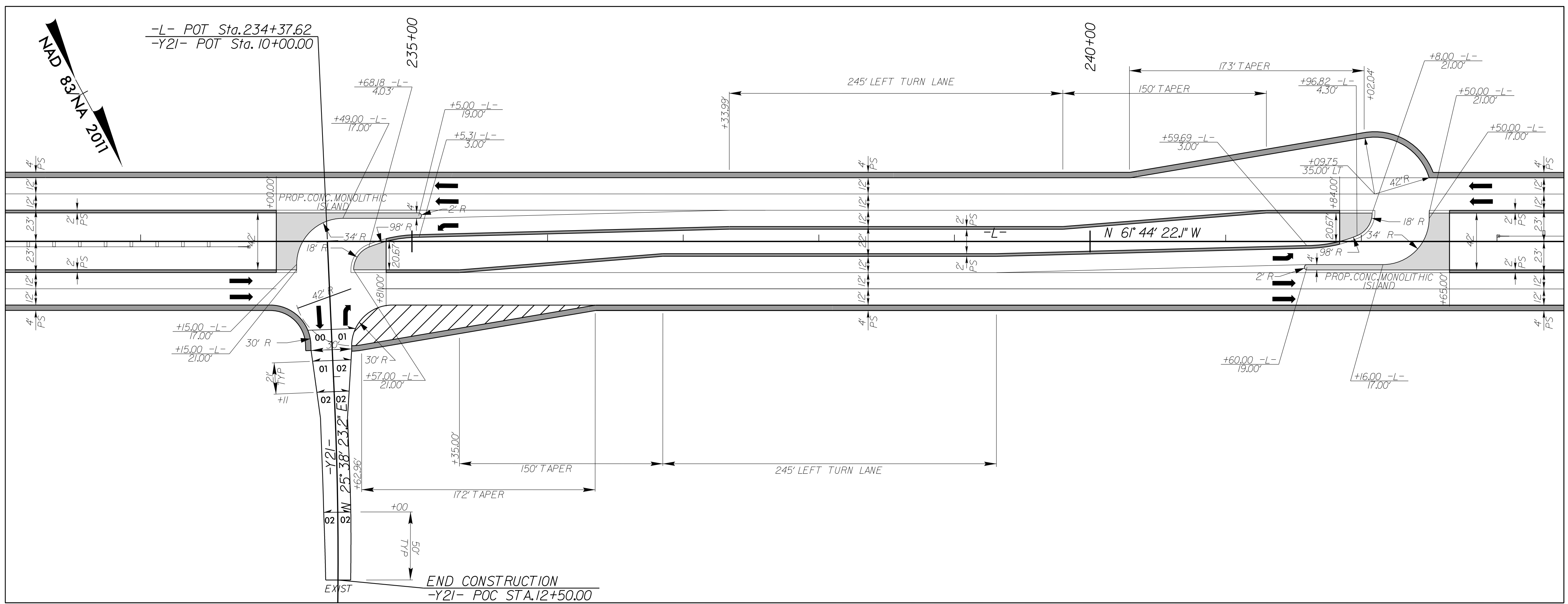


5/14/99

PROJECT REFERENCE NO. <i>R-5726</i>	SHEET NO. <i>2B-4</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
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	930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com

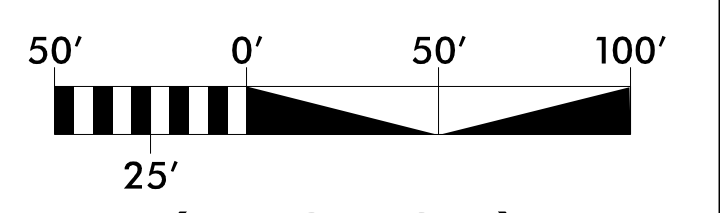


**NC 211 & DEAD MAN CURVE RD (-L- & -Y20-)**  
INTERSECTION DETAIL  
SEE PLAN SHEET 19 FOR PLAN VIEW



**NC 211 & HOLLY GROVE SCHOOL RD (-L- & -Y21-)**  
INTERSECTION DETAIL  
SEE PLAN SHEET 21 FOR PLAN VIEW

★ TRAFFIC SIGNAL



(ENGLISH)

7:30:05 AM  
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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

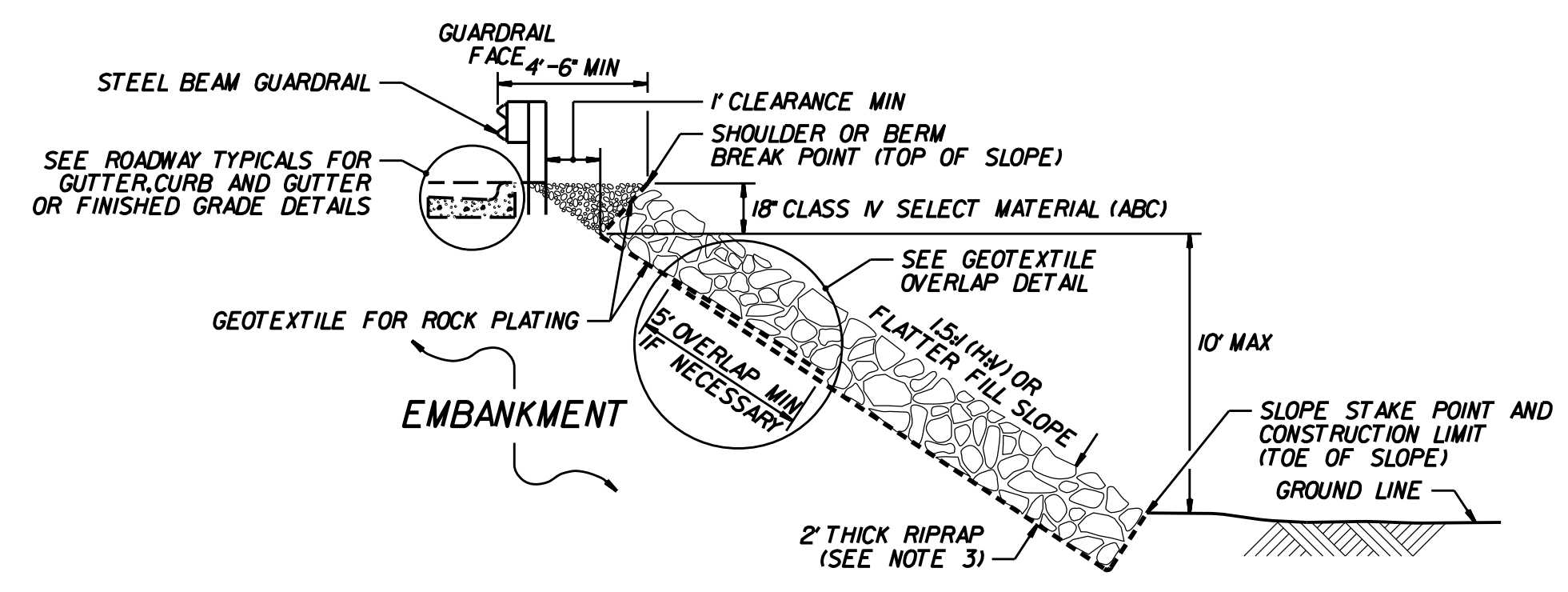
ROADWAY DETAIL DRAWING FOR  
**ROCK PLATING**

SHEET 1 OF 1  
**275D01**

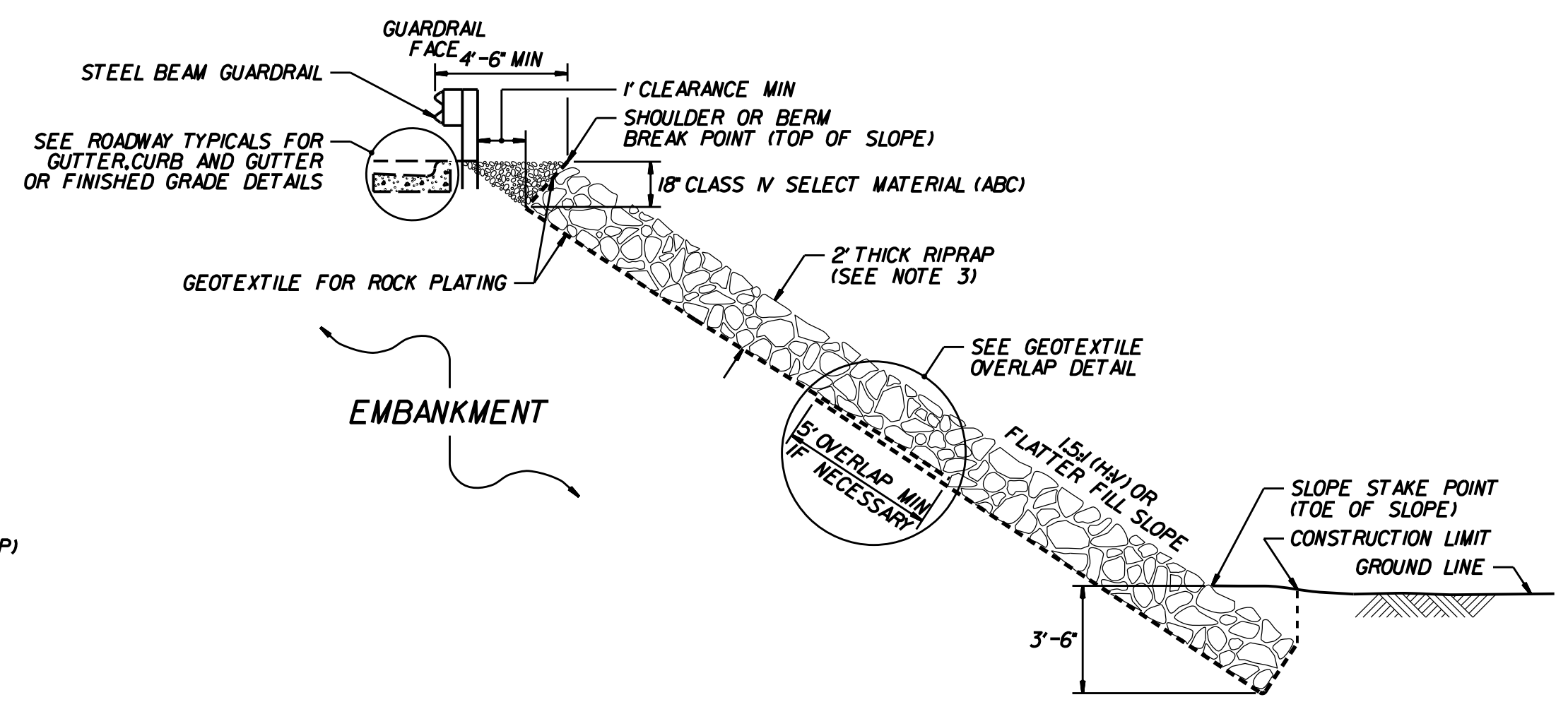
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**ROCK PLATING**

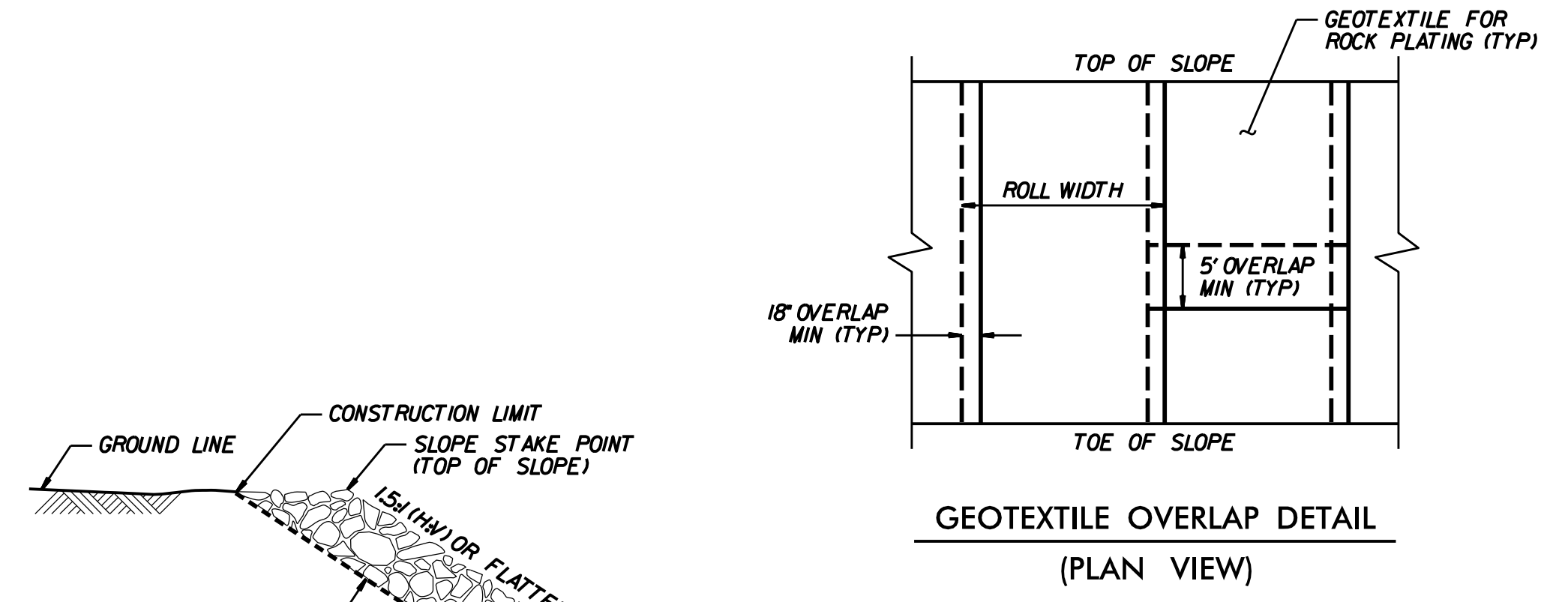
SHEET 1 OF 1  
**275D01**



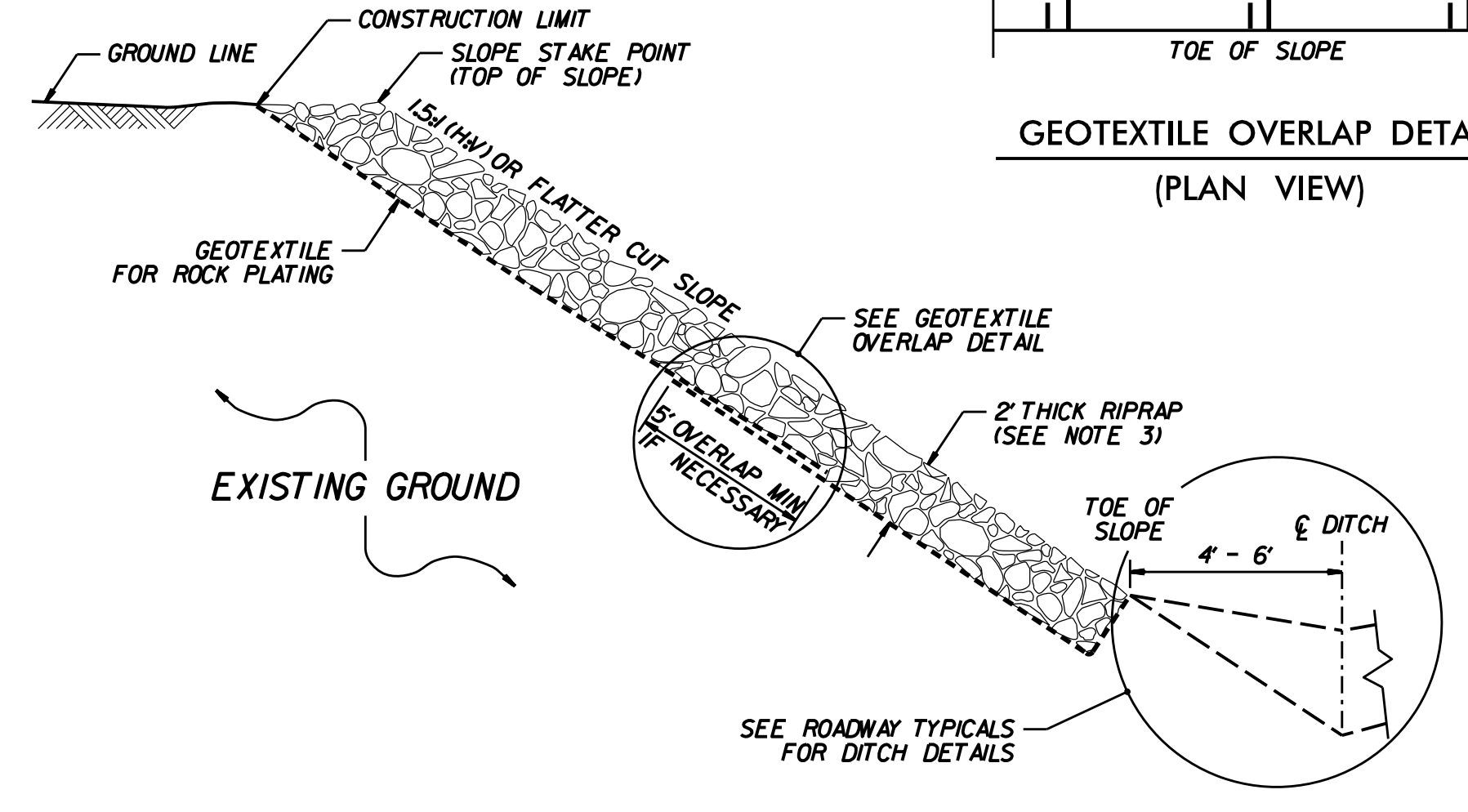
**ROCK PLATING DETAIL NO. 1 - TYPICAL SECTION**



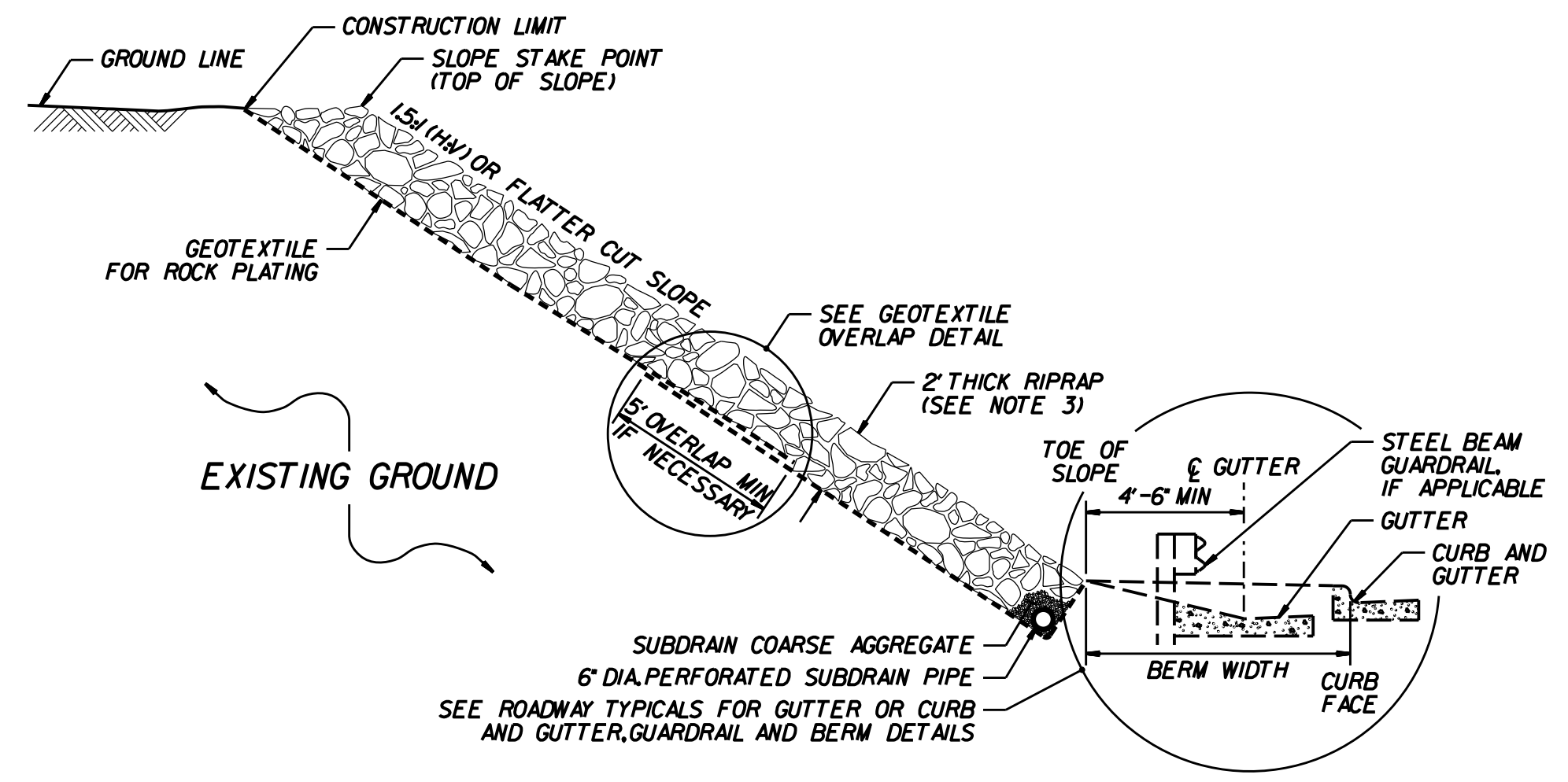
**ROCK PLATING DETAIL NO. 2 - TYPICAL SECTION**



**GEOTEXTILE OVERLAP DETAIL (PLAN VIEW)**

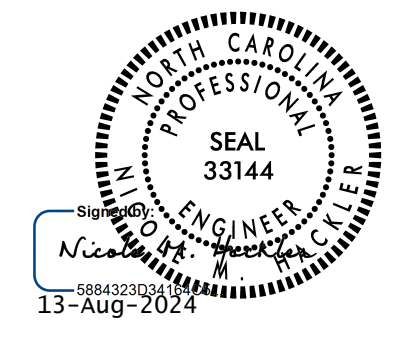


**ROCK PLATING DETAIL NO. 3 - TYPICAL SECTION**



**ROCK PLATING DETAIL NO. 4 - TYPICAL SECTION**

- NOTES:**
- SEE ROADWAY PLANS AND SUMMARY SHEETS FOR ROCK PLATING LOCATIONS.
  - FOR ROCK PLATING, SEE SECTION 275 OF THE STANDARD SPECIFICATIONS.
  - USE CLASS I, 2 OR B RIPRAP UNLESS REQUIRED OTHERWISE IN THE ROADWAY SUMMARY SHEETS.



CONTRACT STANDARDS AND DEVELOPMENT UNIT  
Office 919-707-6900 FAX 919-250-4119

**SEE TITLE BLOCK**

ORIGINAL BY: S. HIDDEN DATE: 03-11-22  
 MODIFIED BY: DATE: \_\_\_\_\_  
 CHECKED BY: DATE: \_\_\_\_\_  
 FILE SPEC.: \_\_\_\_\_

SYTIME\$\$\$\$\$  
 UPR\$\$\$\$\$  
 C:\PROGRAMS\AUTOCAD\USERNAM\$\$\$\$\$

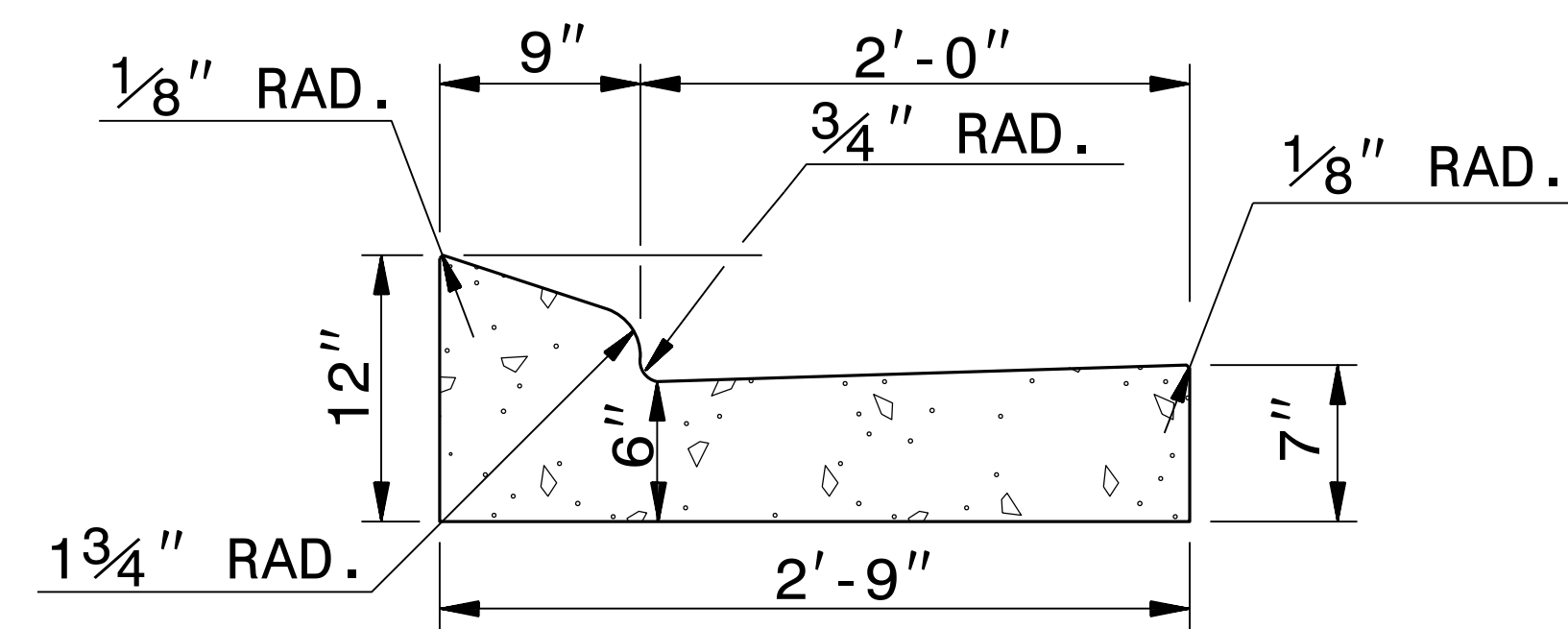


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NORTH CAROLINA  
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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

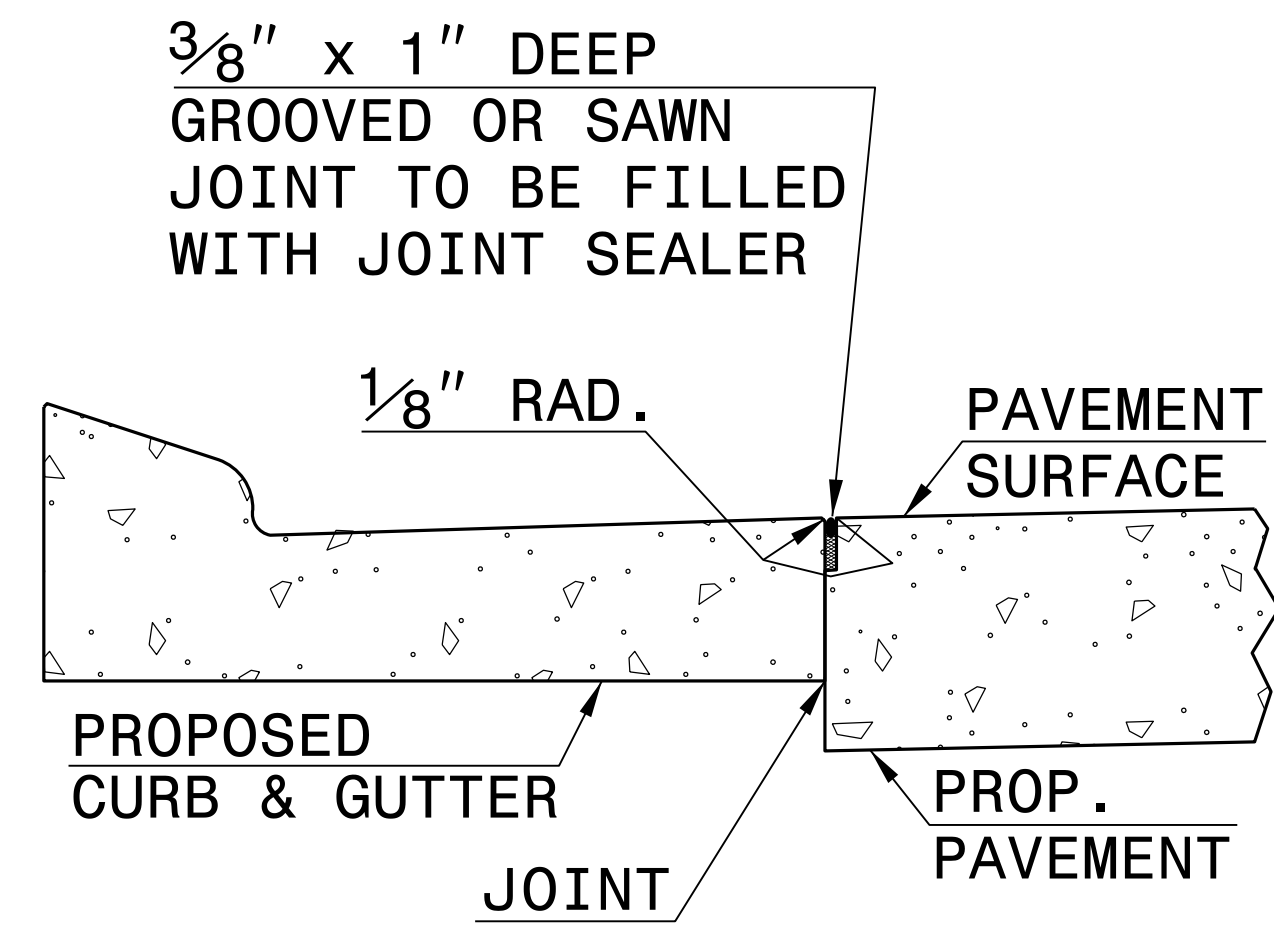
ENGLISH DETAIL DRAWING FOR  
**2'-9" CONCRETE CURB & GUTTER**

SHEET 1 OF 1  
**846D01**

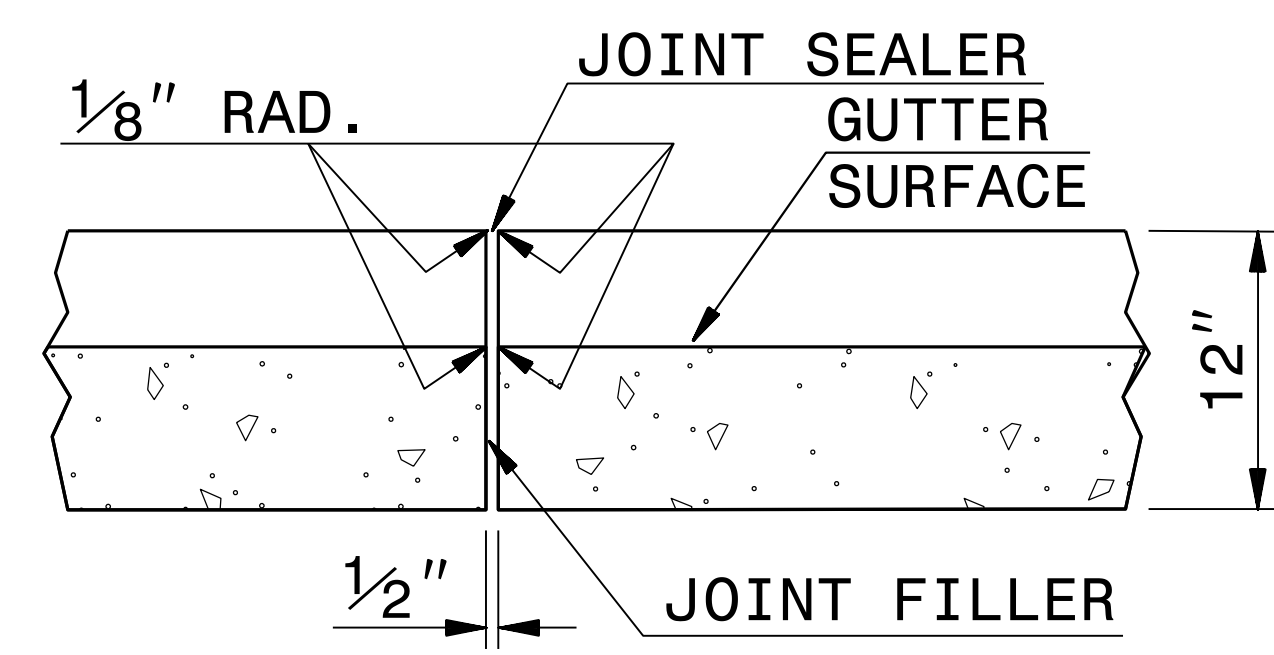
- GENERAL NOTES:
- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
  - JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
  - CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. MAKE NON-TEMPLATE FORMED JOINTS A MIN. OF 1½" DEEP.
  - FILL ALL CONSTRUCTION JOINTS WITH JOINT FILLER AND SEALER.
  - SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.
  - SEE RDWY. STD. DWG. NO. 846.01, SHEET 2 OF 3 FOR PLACEMENT IN SUPERELEVATIONS. (USE 2'-6" CURB AND GUTTER RATES)



**2'-9" CURB AND GUTTER**  
**SECTION VIEW OF CURB AND GUTTER**



**LONGITUDINAL JOINT**



**TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER**

**SECTION VIEW OF JOINTS**

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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**2'-9" CONCRETE CURB & GUTTER**

SHEET 1 OF 1  
**846D01**

J:\AUG-2017\1146 S:\Contracts\Special\Stand\stand\c&g2'-9.dgn

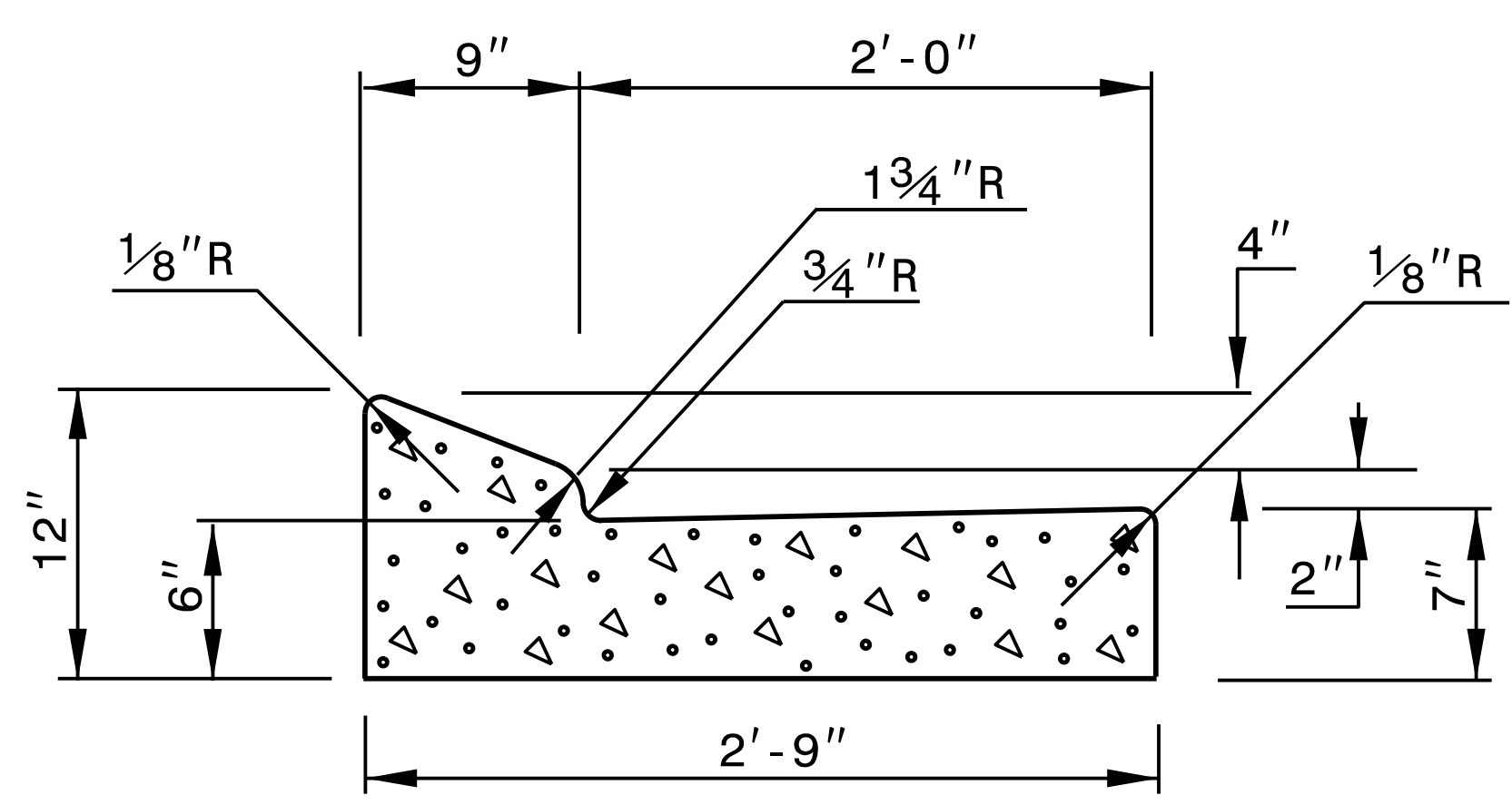


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

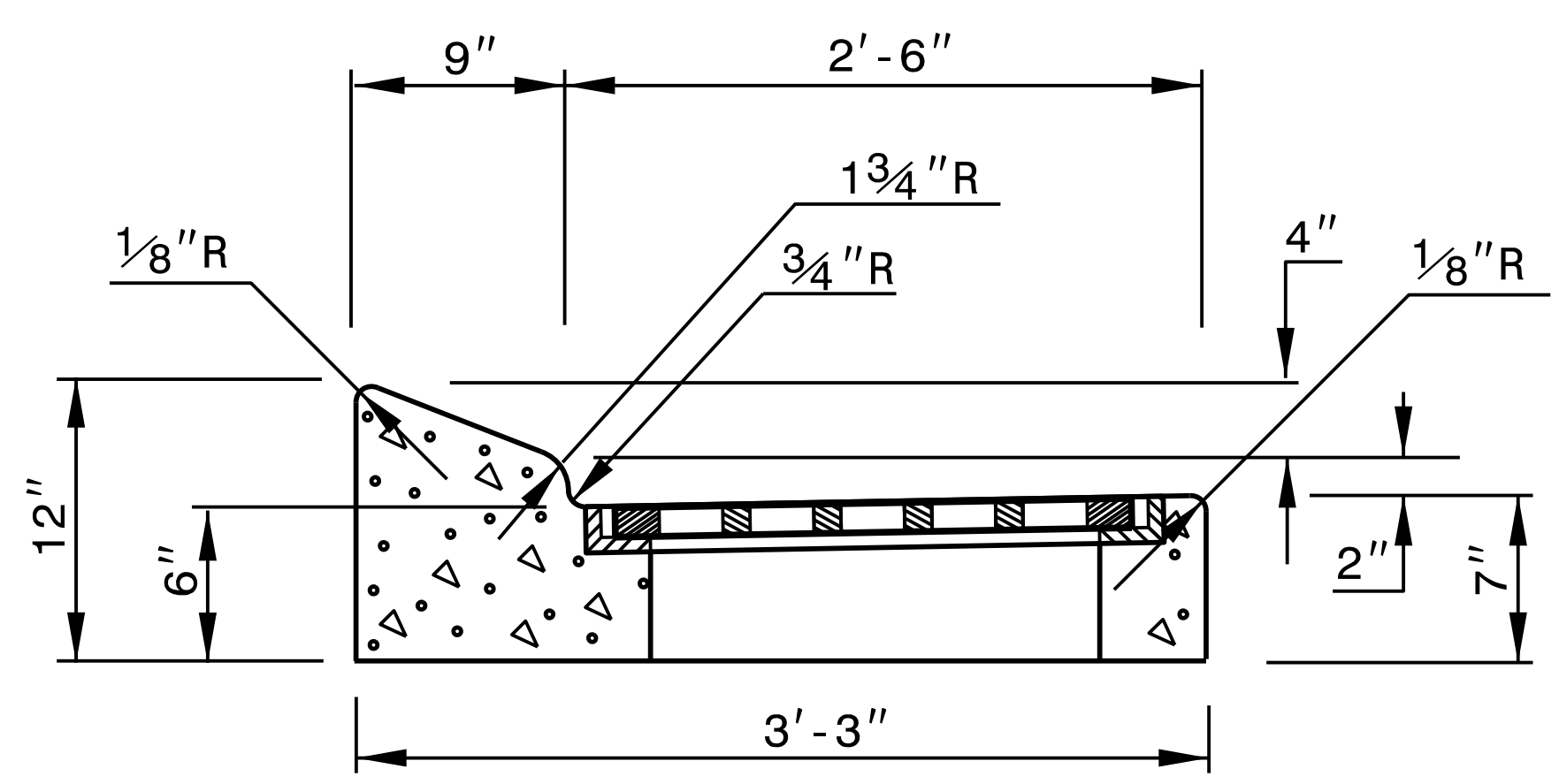
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**SEE PLATE FOR TITLE**

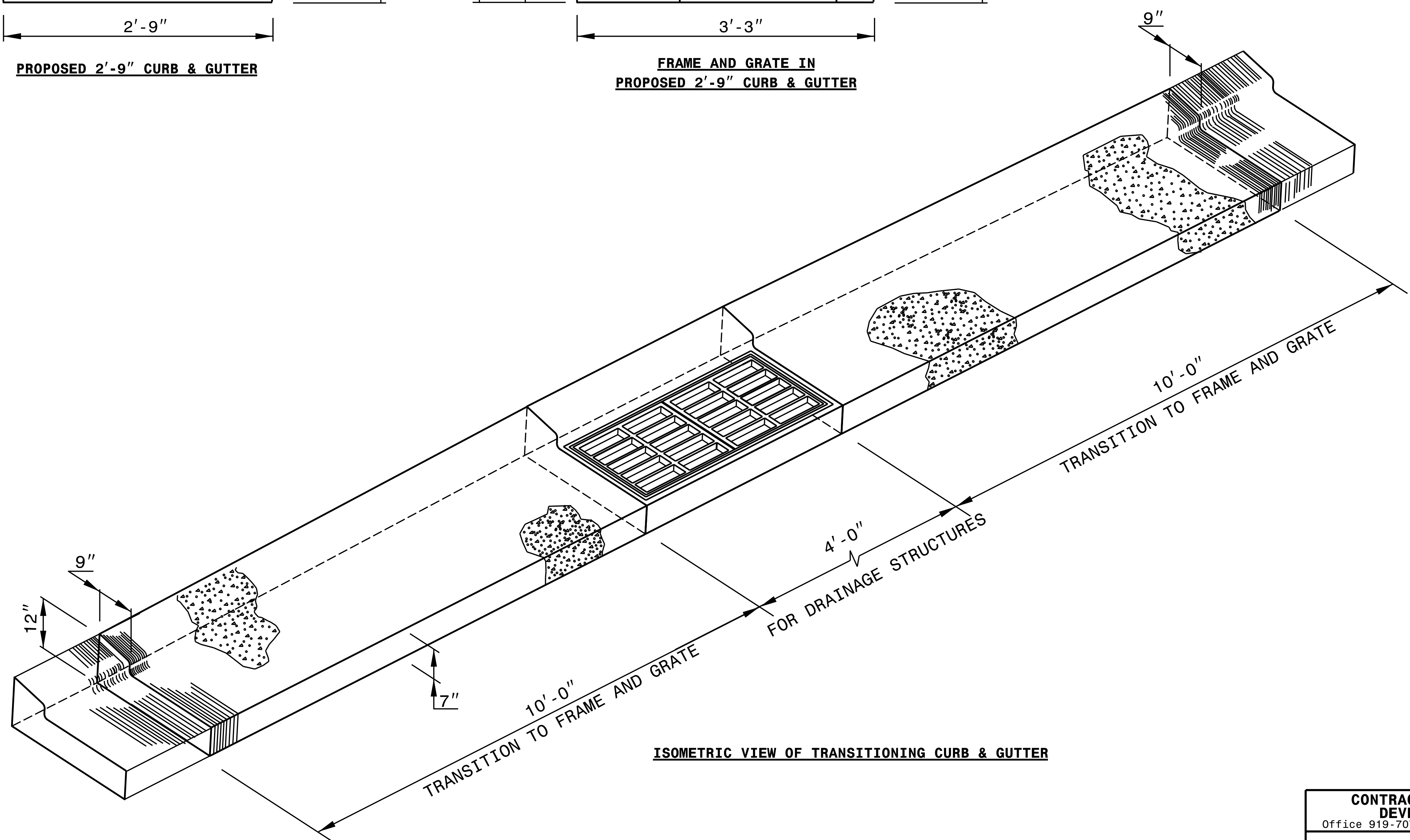
ORIGINAL BY: STD. 846.01 DATE: \_\_\_\_\_  
 MODIFIED BY: E.E. WARD DATE: 8-15-00  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FILE SPEC.: /usr/details/stand/c&g2'-9.dgn



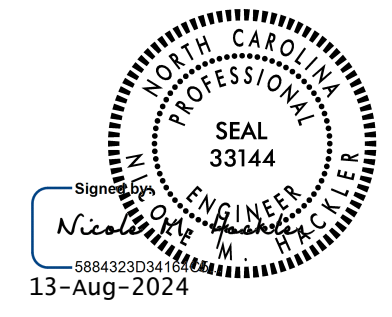
**PROPOSED 2'-9" CURB & GUTTER**



**FRAME AND GRATE IN PROPOSED 2'-9" CURB & GUTTER**



**ISOMETRIC VIEW OF TRANSITIONING CURB & GUTTER**



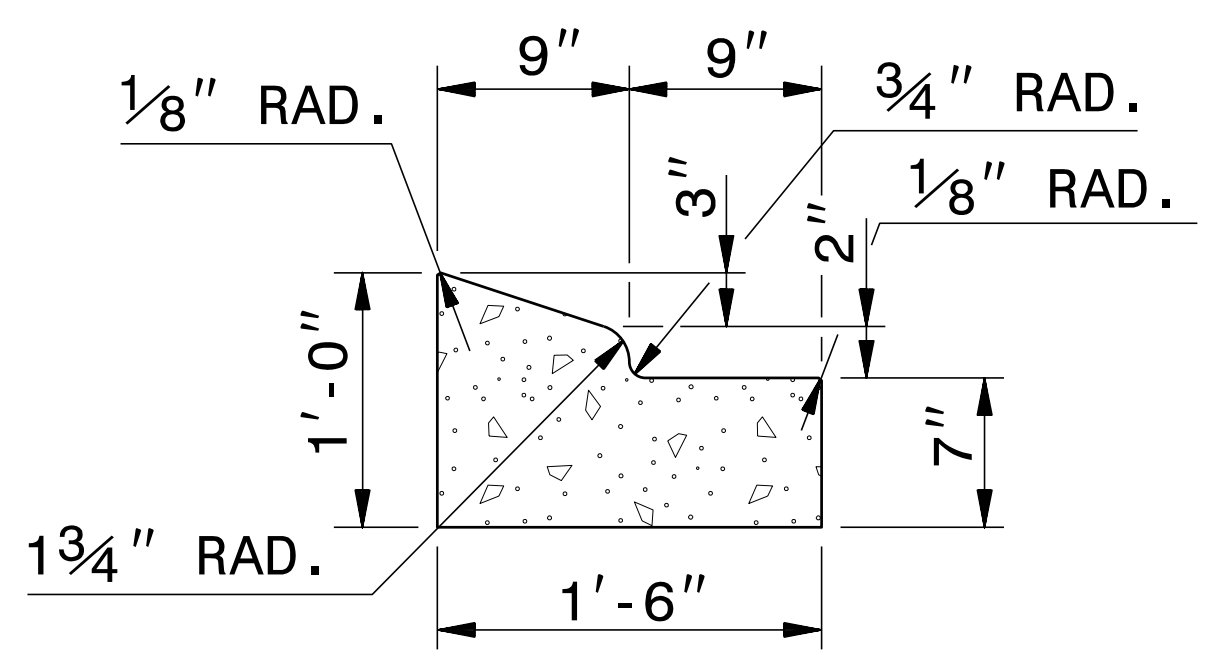
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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DEVELOPMENT UNIT**  
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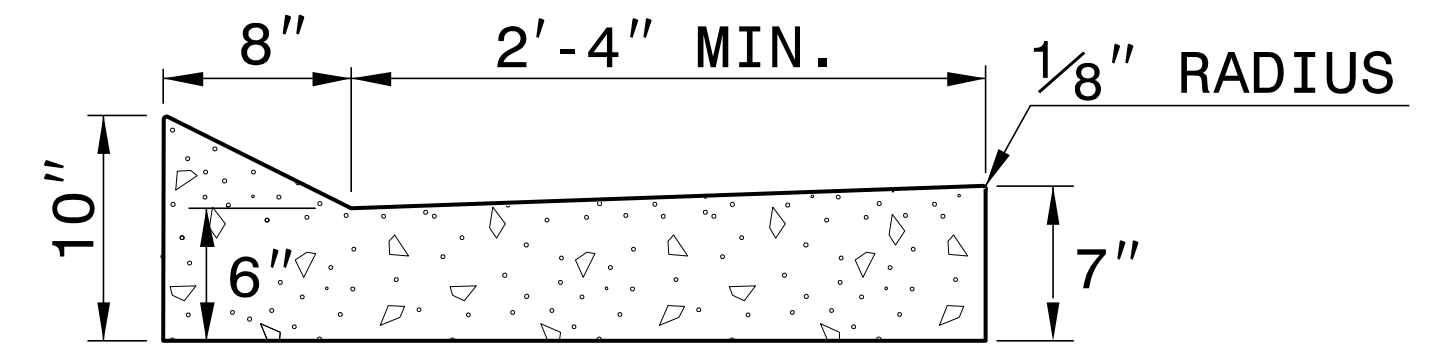
**DETAIL OF 2'-9"  
TO FRAME AND GRATE**

ORIGINAL BY: _____	DATE: _____
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: <u>kkempf/english/curb gutter transition.dgn</u>	





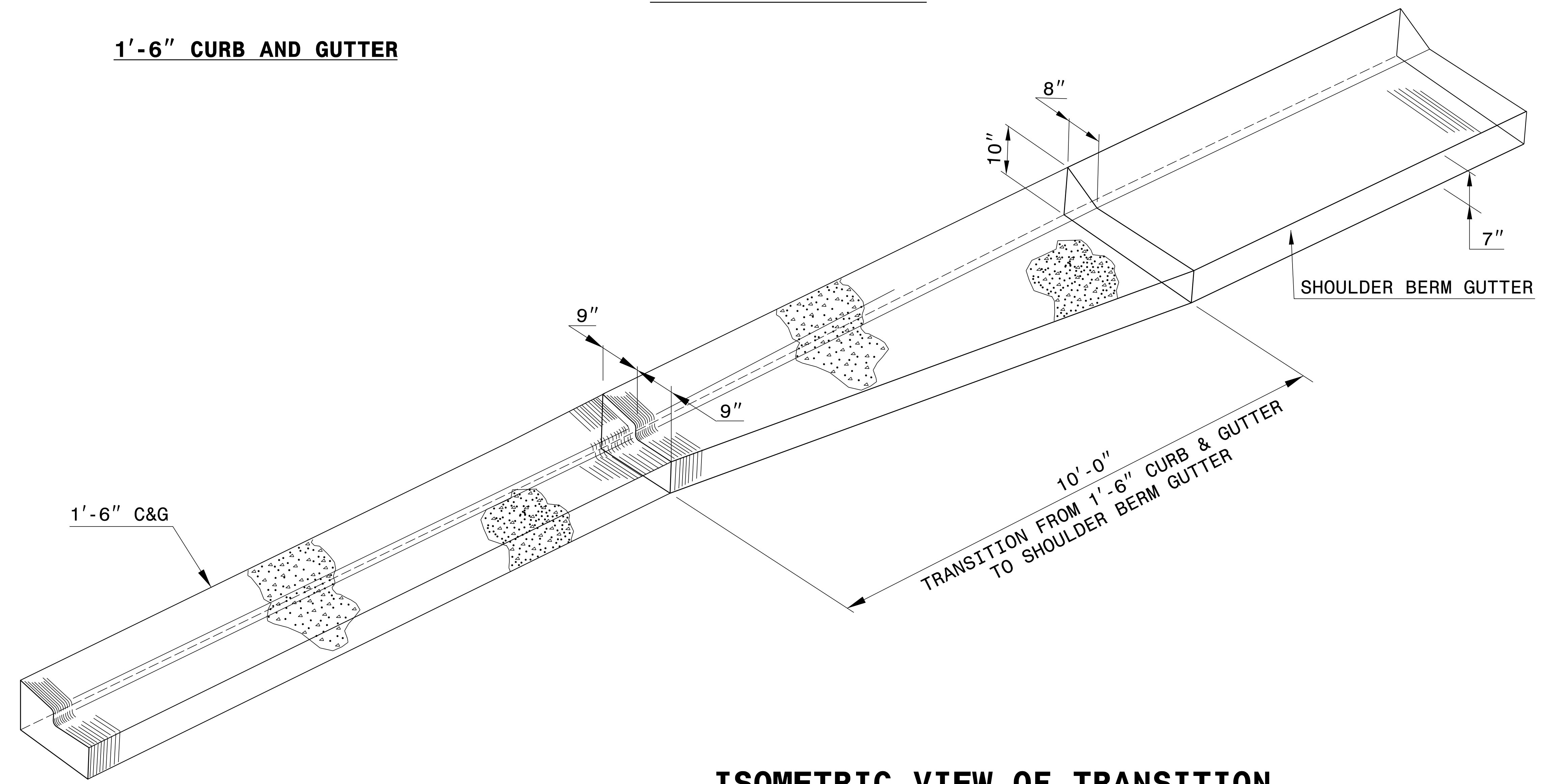
**1'-6" CURB AND GUTTER**



**SHOULDER BERM GUTTER**

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

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.

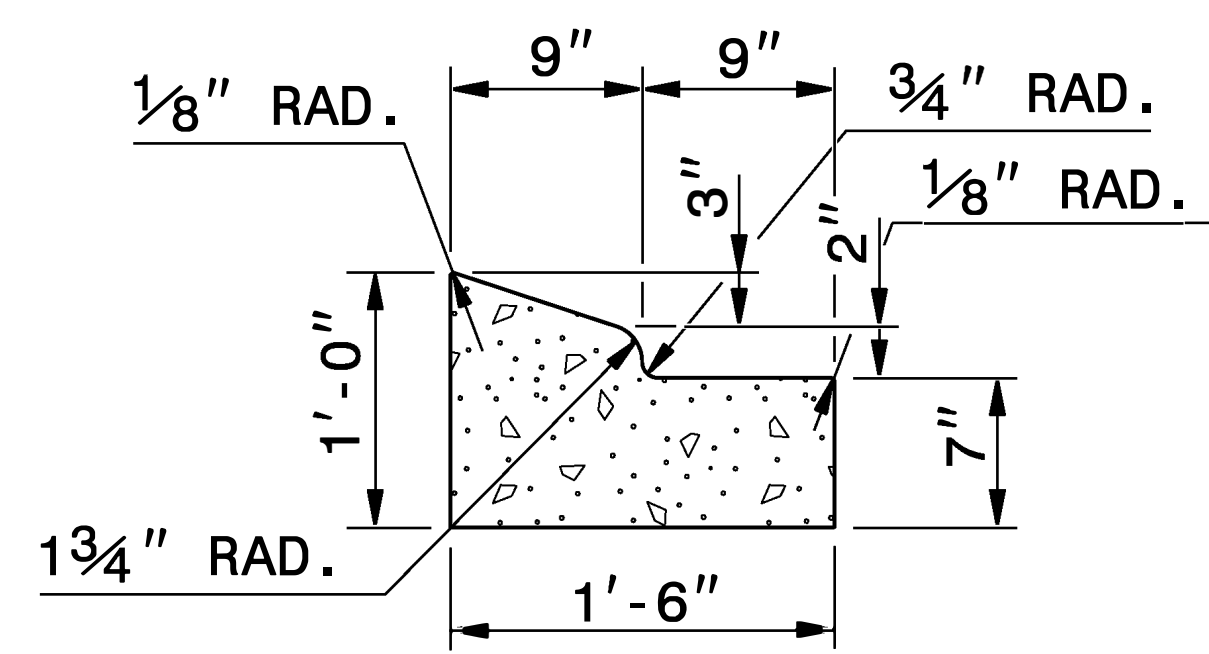


**ISOMETRIC VIEW OF TRANSITION**

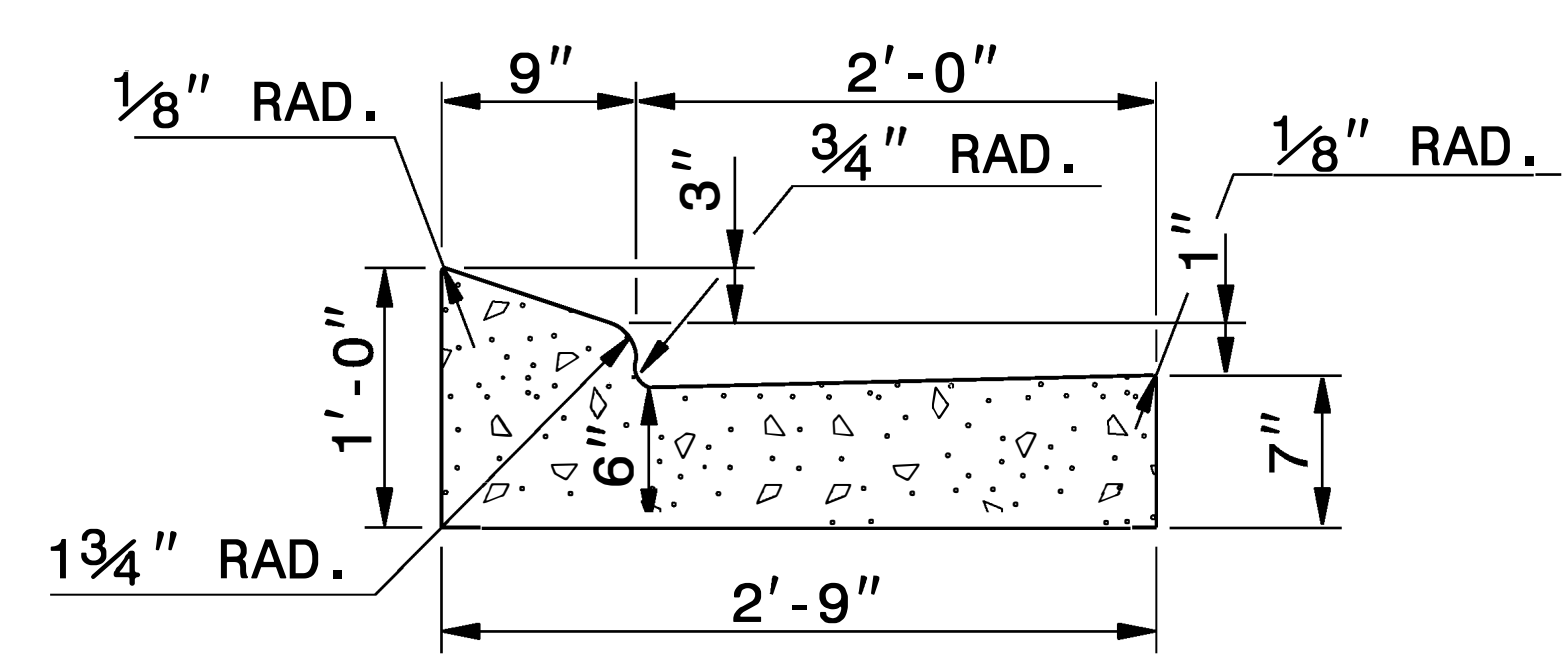


**DETAIL OF 1'-6" C&G TO SHOULDER BERM GUTTER TRANSITION SECTION**

ORIGINAL BY: E.E. WARD	DATE: 11-21-03
MODIFIED BY: HUDSON COKER	DATE: 7-1-2024
CHECKED BY: DAVID WALLER	DATE: 7-1-2024
FILE SPEC.: /usr/details/stand/cgtransit.dgn	



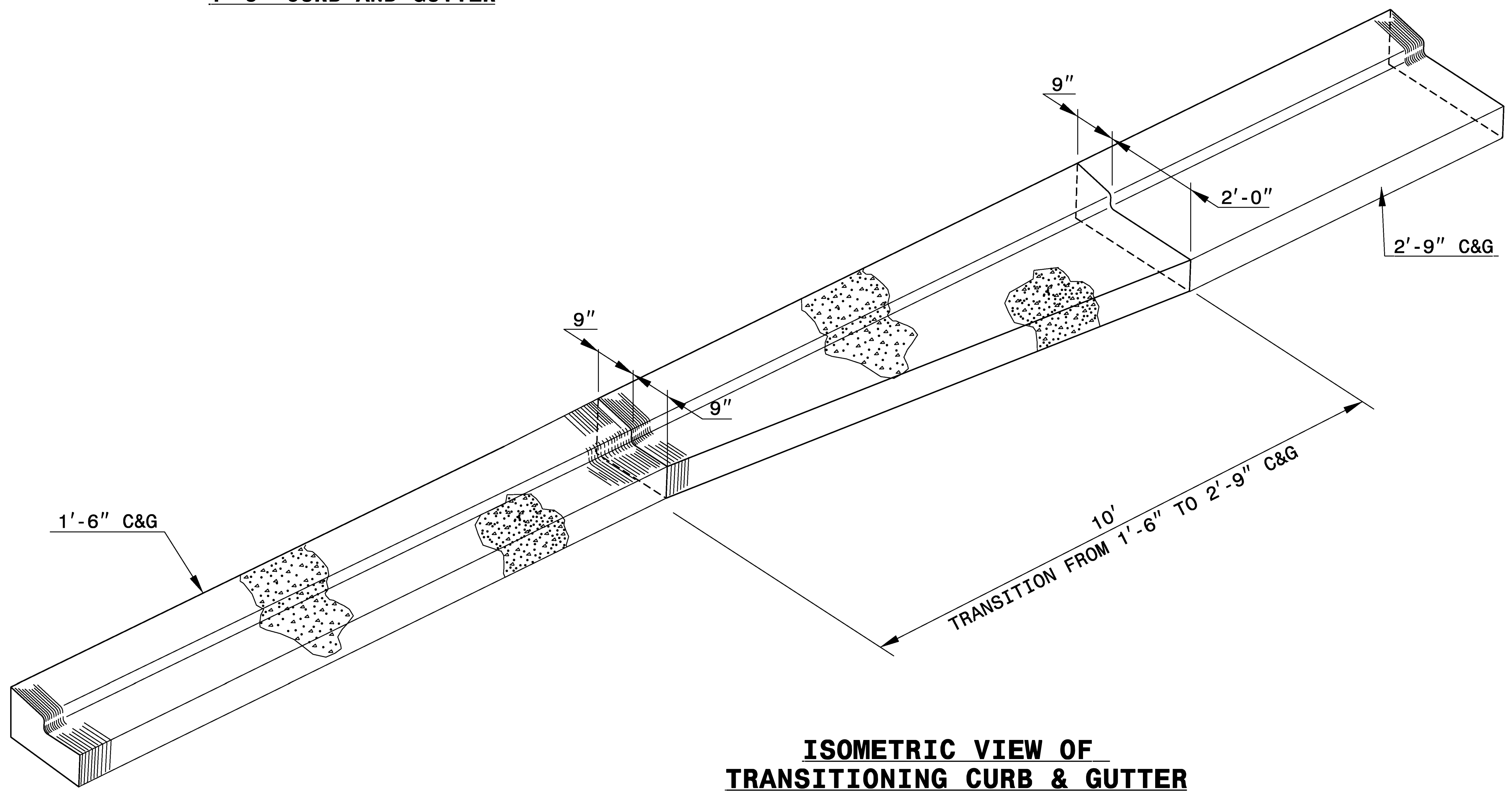
**1'-6" CURB AND GUTTER**



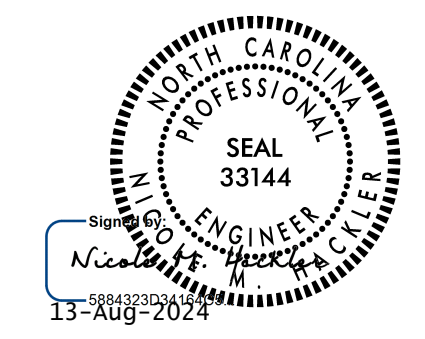
**2'-9" CURB AND GUTTER**

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**



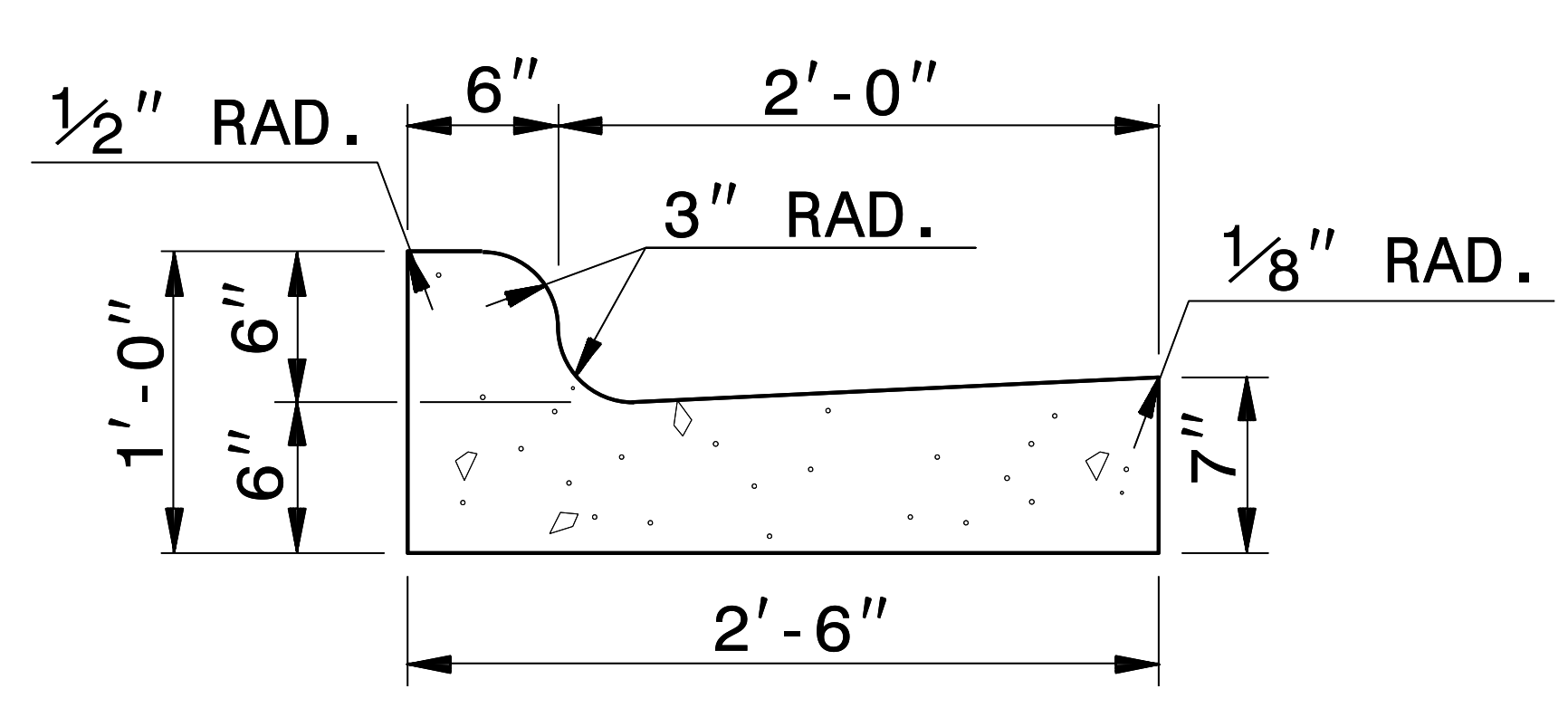
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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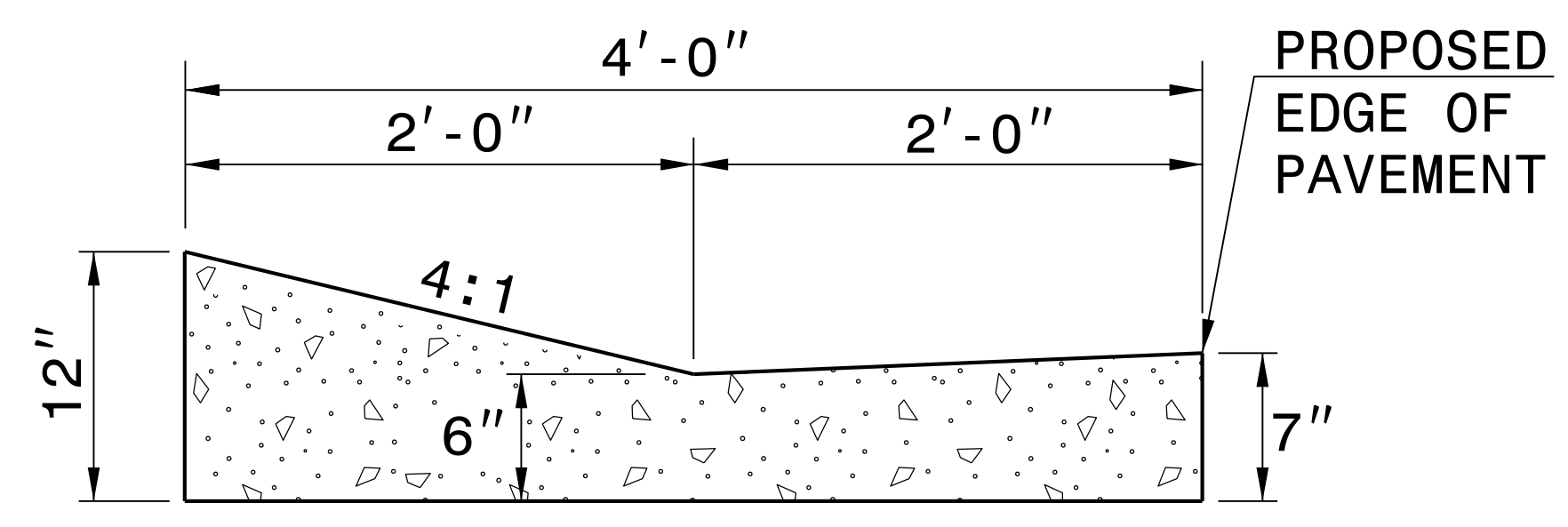
**DETAIL OF 1'-6"  
TO 2'-9" CURB & GUTTER  
TRANSITION SECTION**

ORIGINAL BY: T.S.SPELL	DATE: NOV. 26, 2001
MODIFIED BY: T.S.SPELL	DATE: JAN. 23, 2007
CHECKED BY:	DATE:
FILE SPEC.: DS174:\usr\details\stand\catransit.dgn	





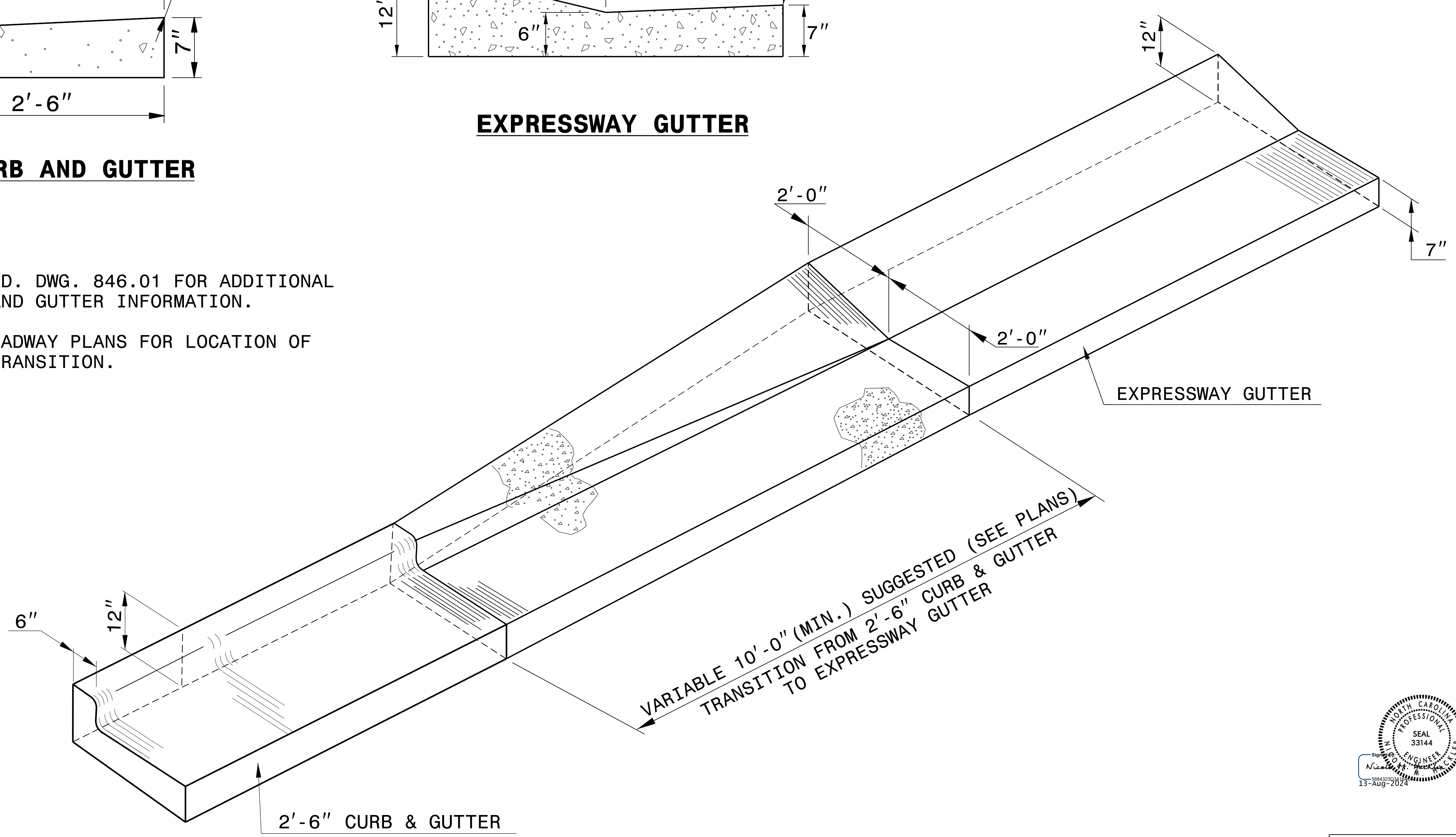
**2'-6" CURB AND GUTTER**



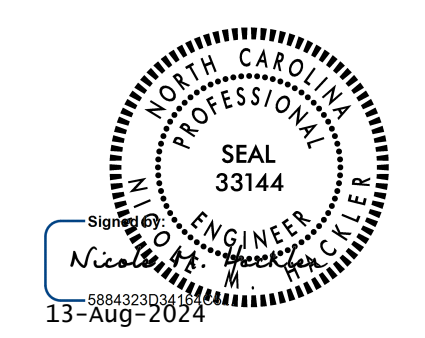
**EXPRESSWAY GUTTER**

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

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.



**ISOMETRIC VIEW OF TRANSITION**



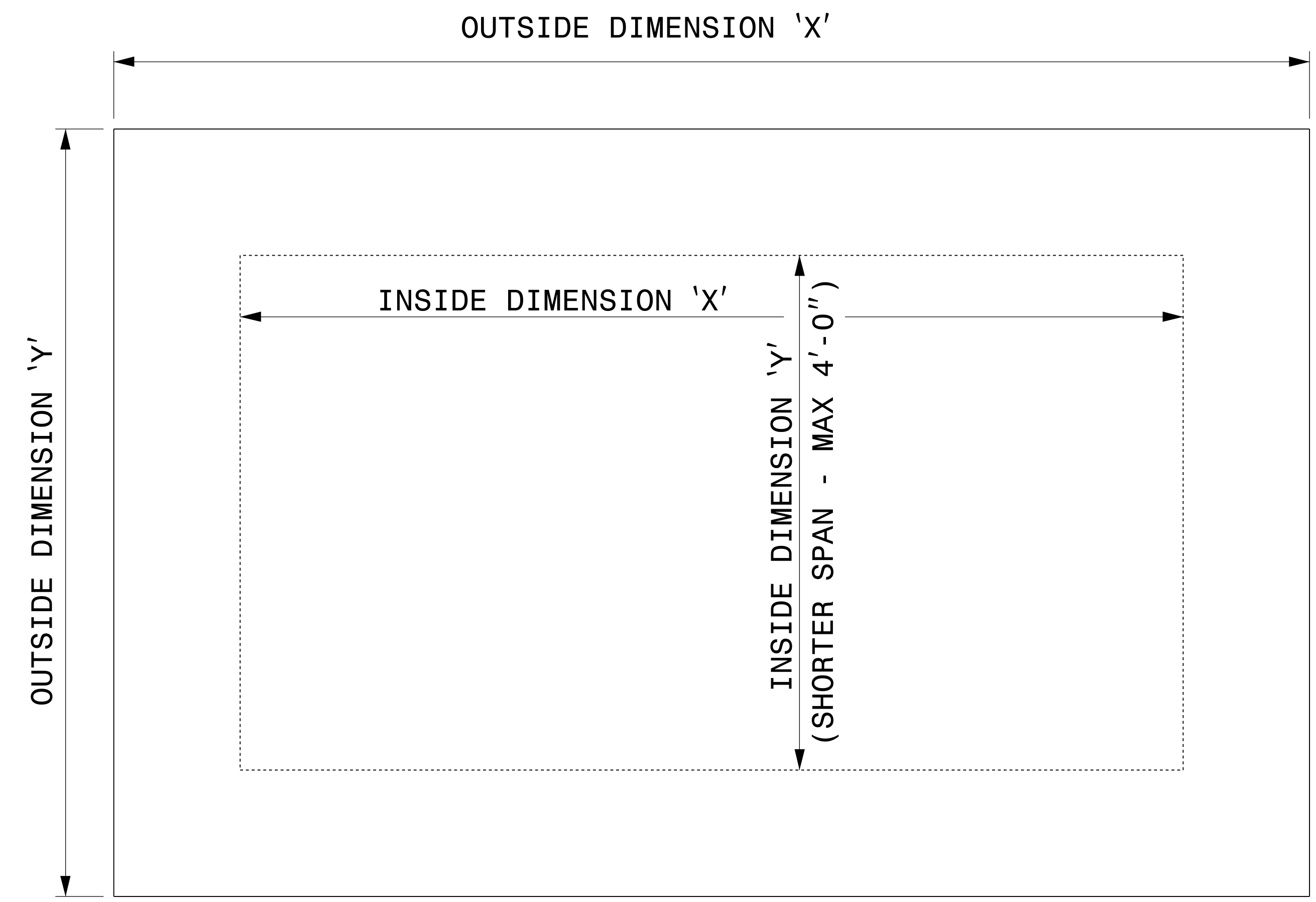
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

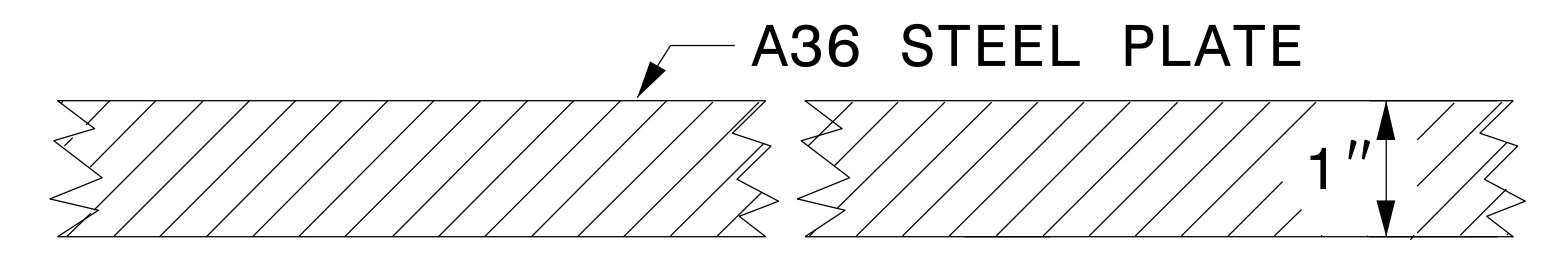
ORIGINAL BY: T.S.Spell DATE: 8-13-02  
 MODIFIED BY: DATE:  
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05-OCT-2017 08:23 S:\Contracts\ContractDetails\stand\c&g transition sections.dgn Jhoweron AT USD-292595



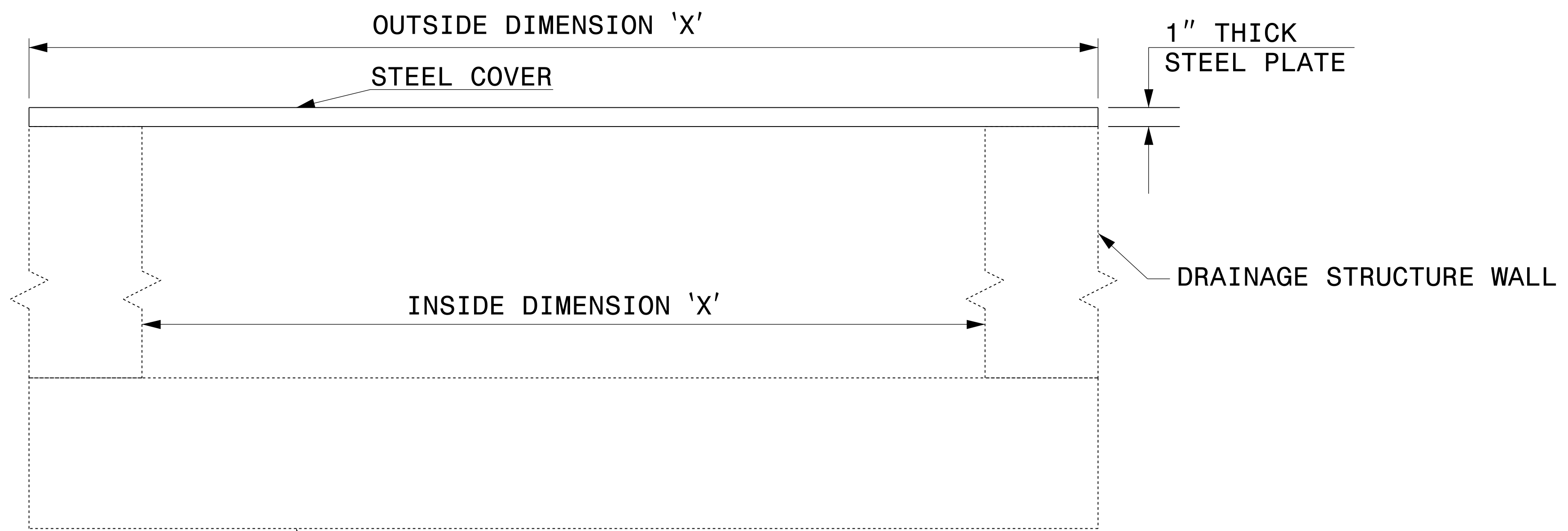
GENERAL NOTES:

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



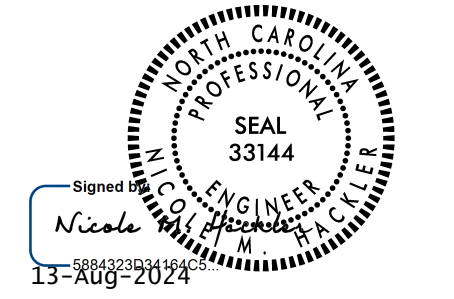
SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



EXISTING DRAINAGE STRUCTURE

ELEVATION VIEWS



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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**DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE**

ORIGINAL BY: E.E. WARD DATE: 2-2-98  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
 FILE SPEC.: eric:/usr/details/metric/stand/st1cvr2.dgn

\$\$\$\$\$TIME\$\$\$\$\$  
\$\$\$\$\$USER\$\$\$\$\$



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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

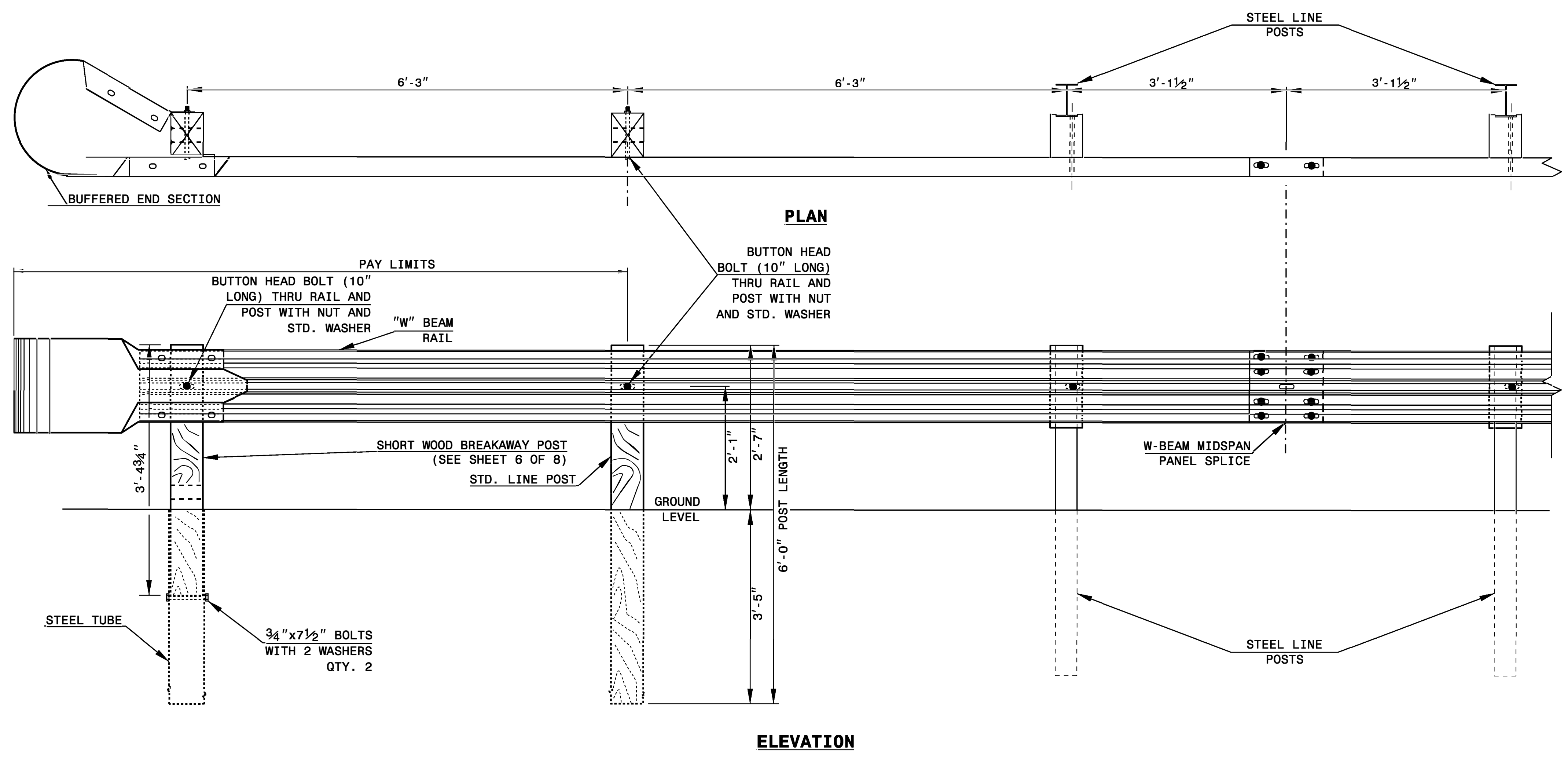
ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET OF

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

ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET OF



**TRAILING END UNIT ASSEMBLY**  
**A.T. - 1 SYSTEM**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACTS STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>A.T. - 1 SYSTEM</b>	
ORIGINAL BY: _____	DATE: _____
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

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

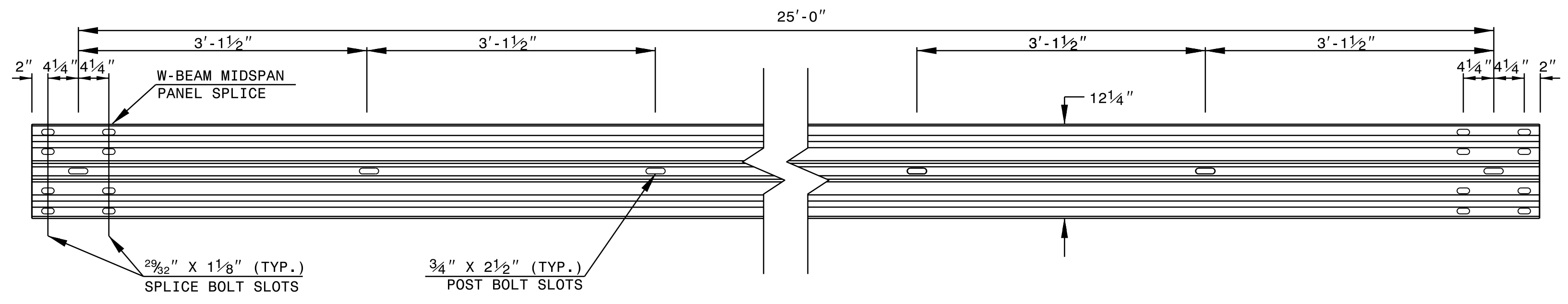
ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL INSTALLATION**

SHEET 6 OF 8  
**862D02**

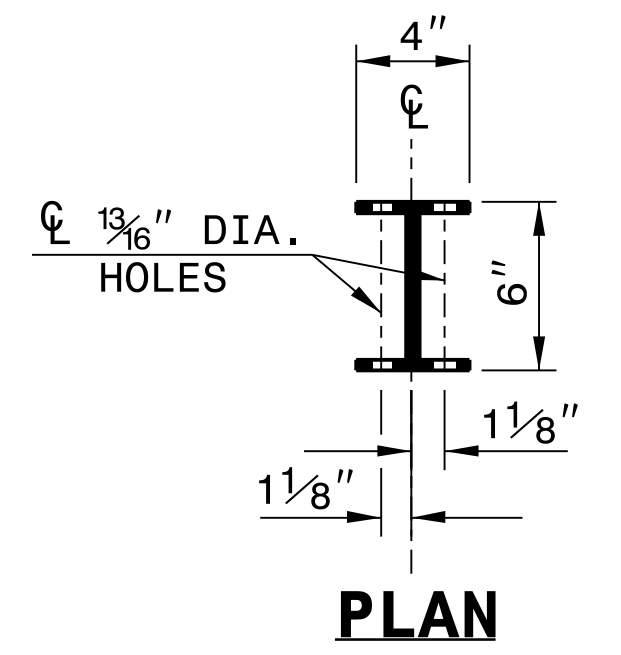
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**GUARDRAIL INSTALLATION**

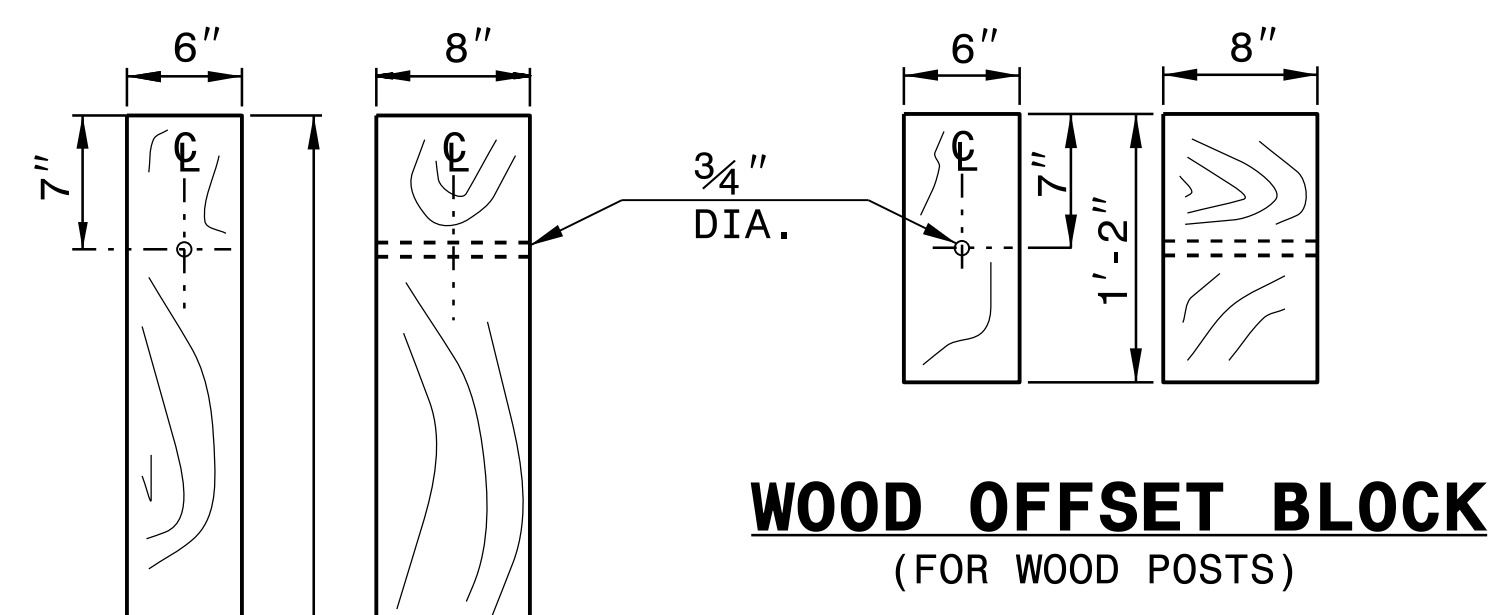
SHEET 6 OF 8  
**862D02**



**STANDARD W-BEAM GUARDRAIL**



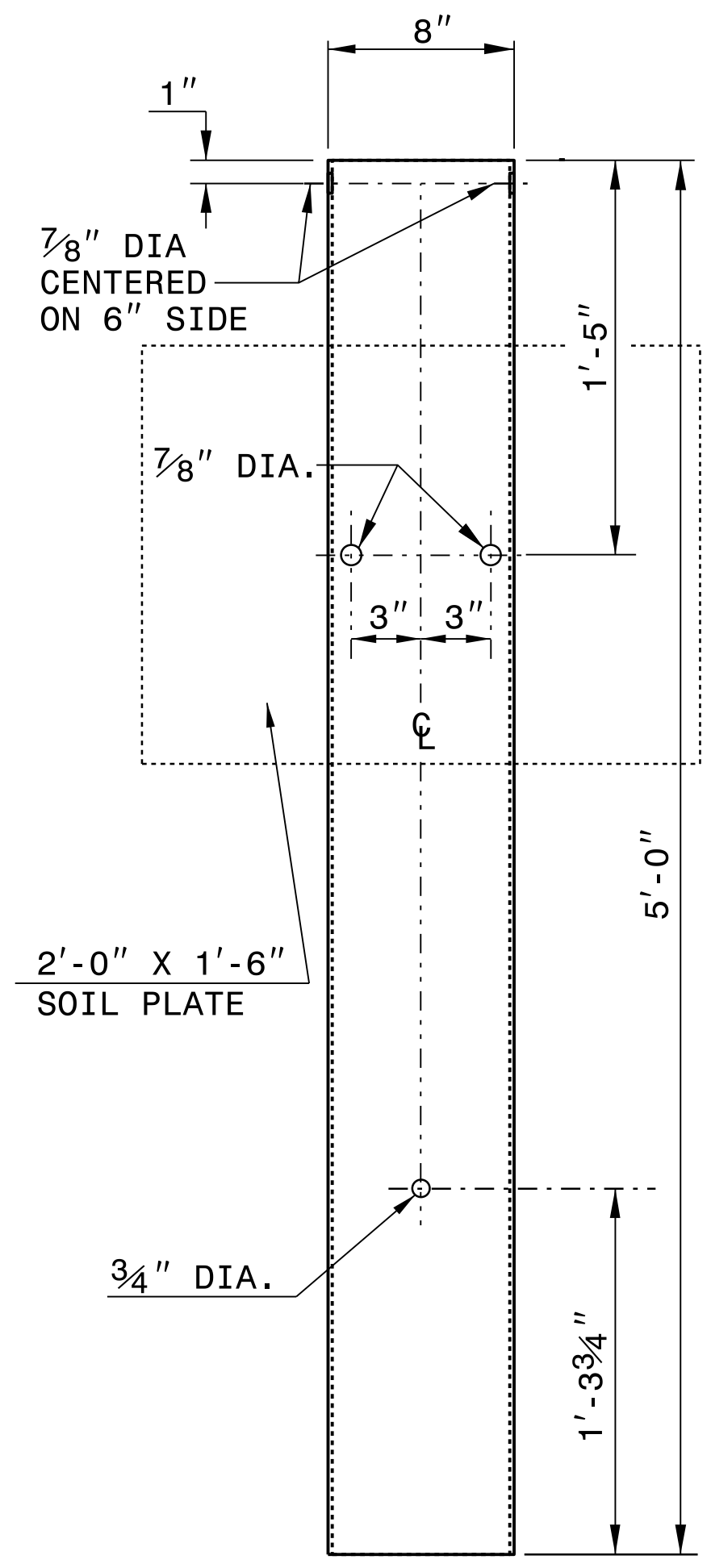
**PLAN**



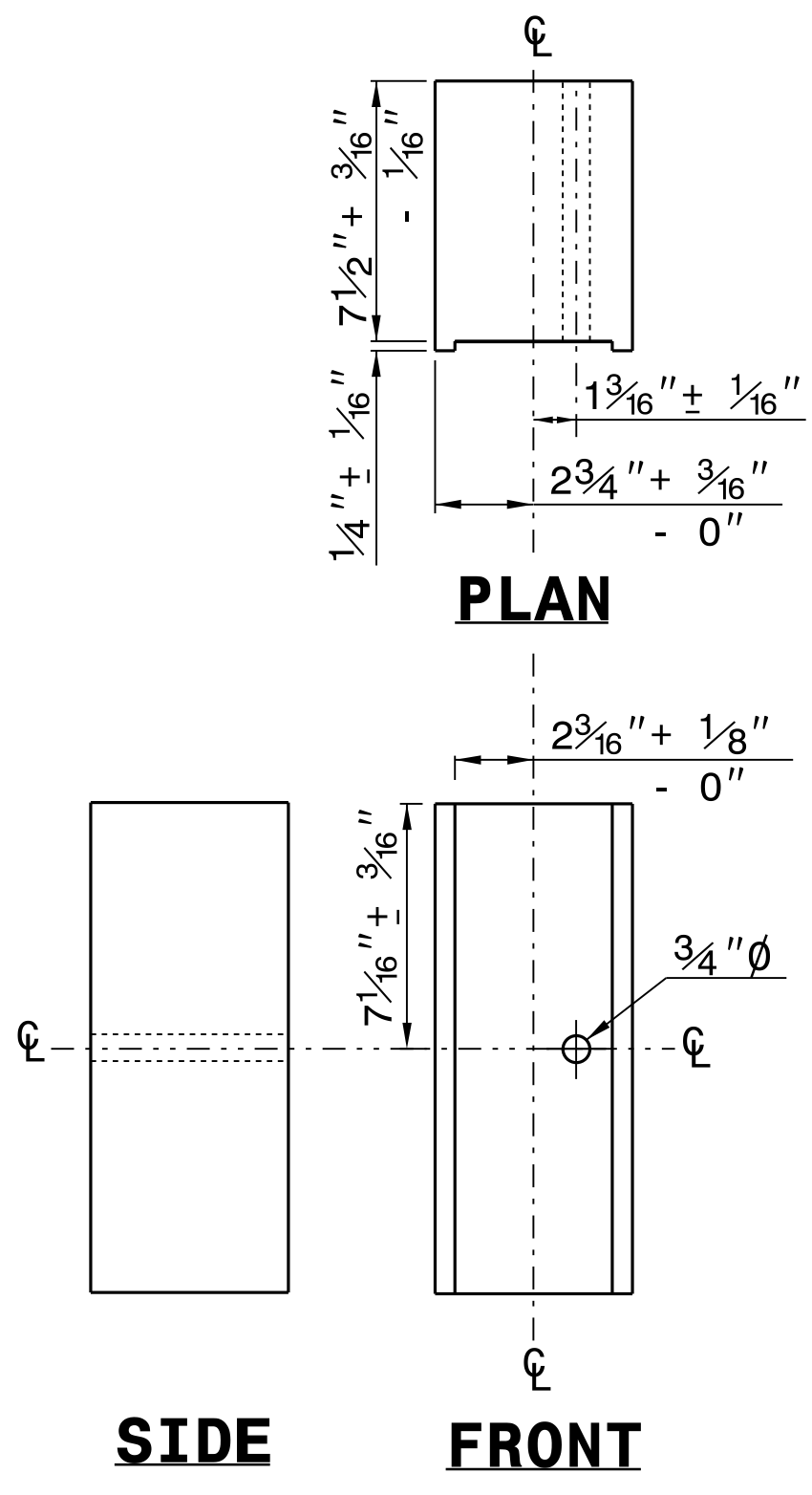
**WOOD OFFSET BLOCK  
(FOR WOOD POSTS)**

**STANDARD  
LINE POST**

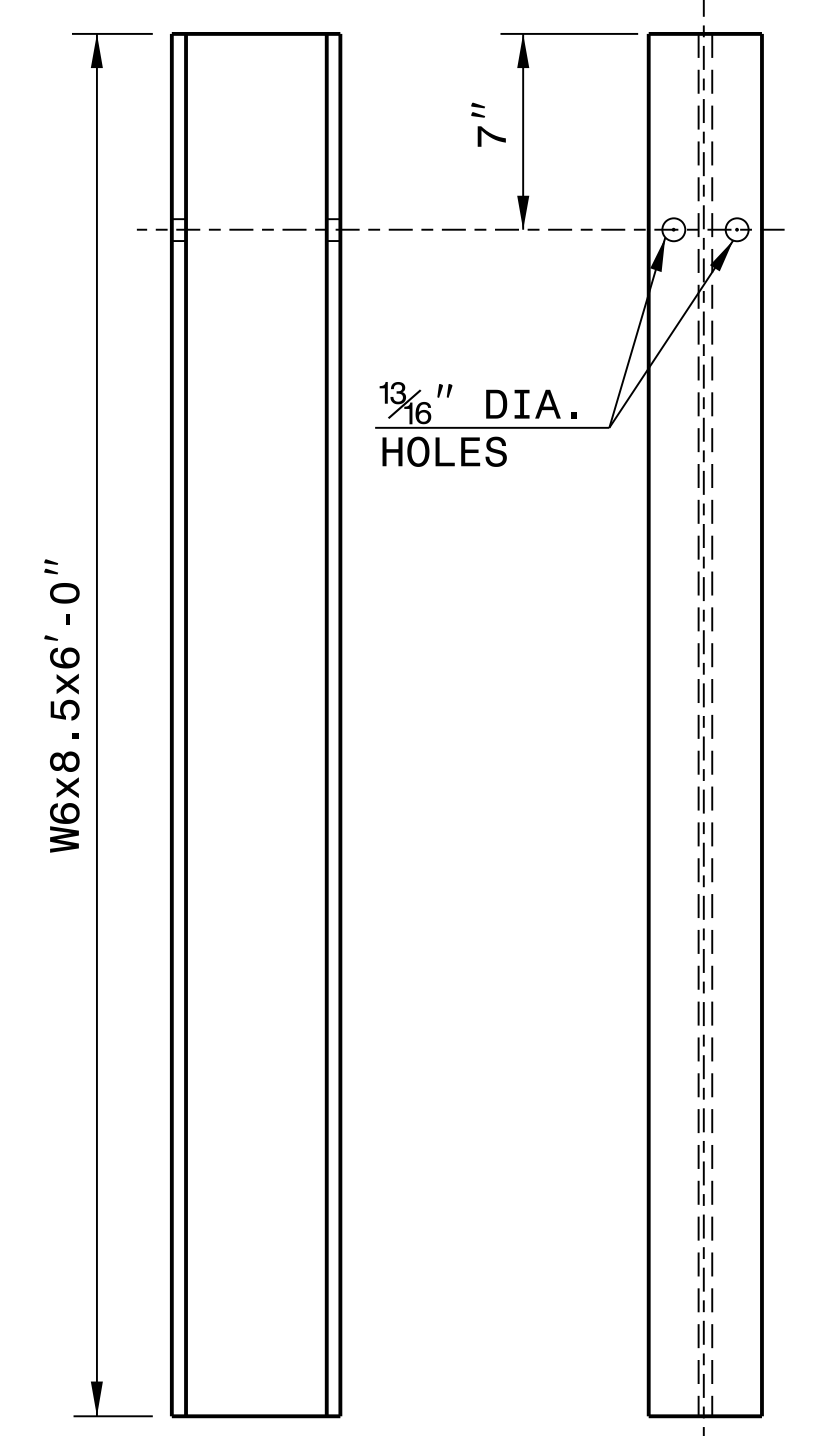
**SHORT WOOD  
BREAKAWAY POST**



**STEEL TUBE  
TS 6"x8"x0.1875"**

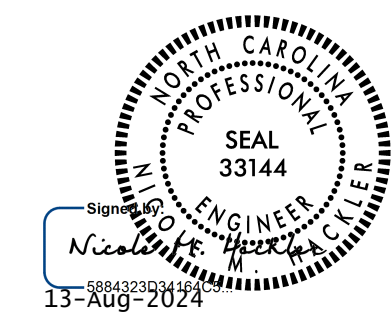


**ROUTED  
OFFSET BLOCK**



**"W6" STEEL POST**

**SYSTEM PARTS**



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

**SEE TITLE BLOCK**

ORIGINAL BY: J. HOWERTON	DATE: 3-7-2018
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	



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

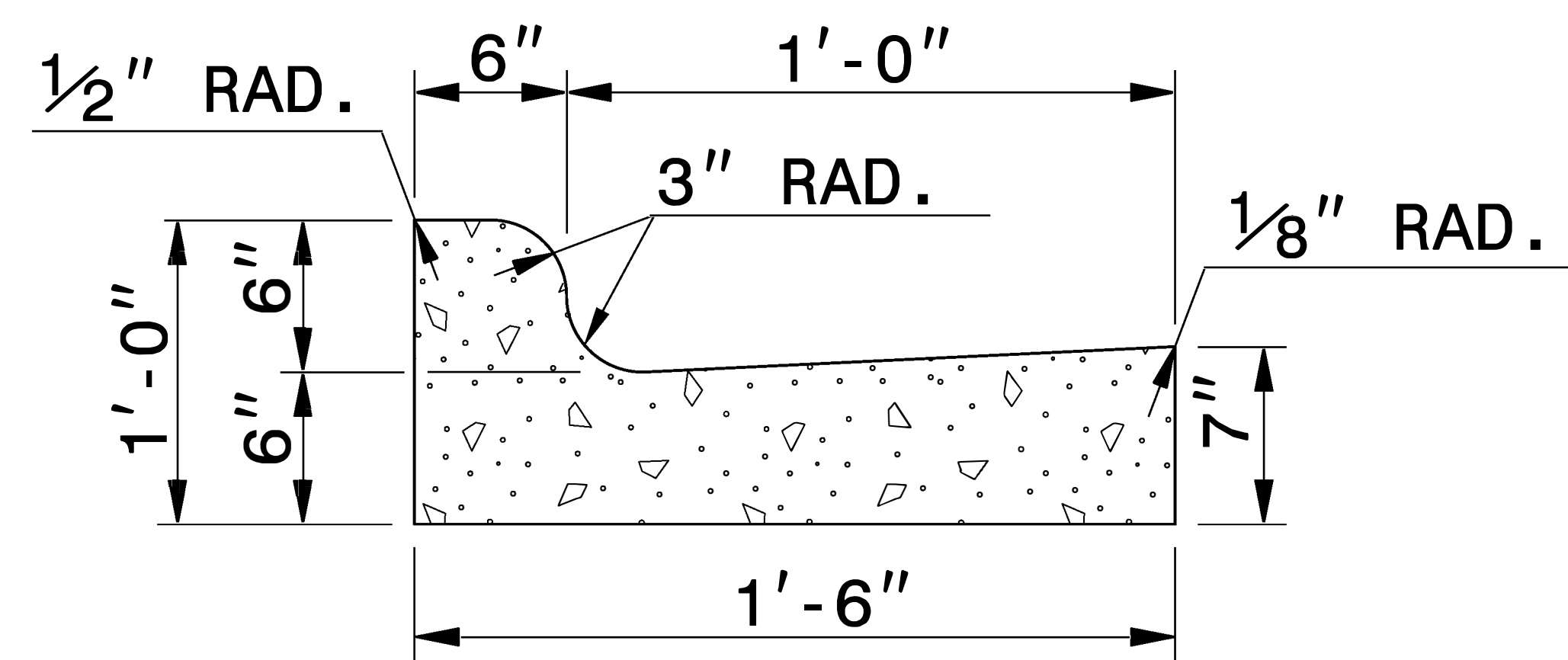
ROADWAY DETAIL DRAWING FOR  
**1'-6" CONCRETE CURB & GUTTER  
(SPECIAL)**

846d01

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

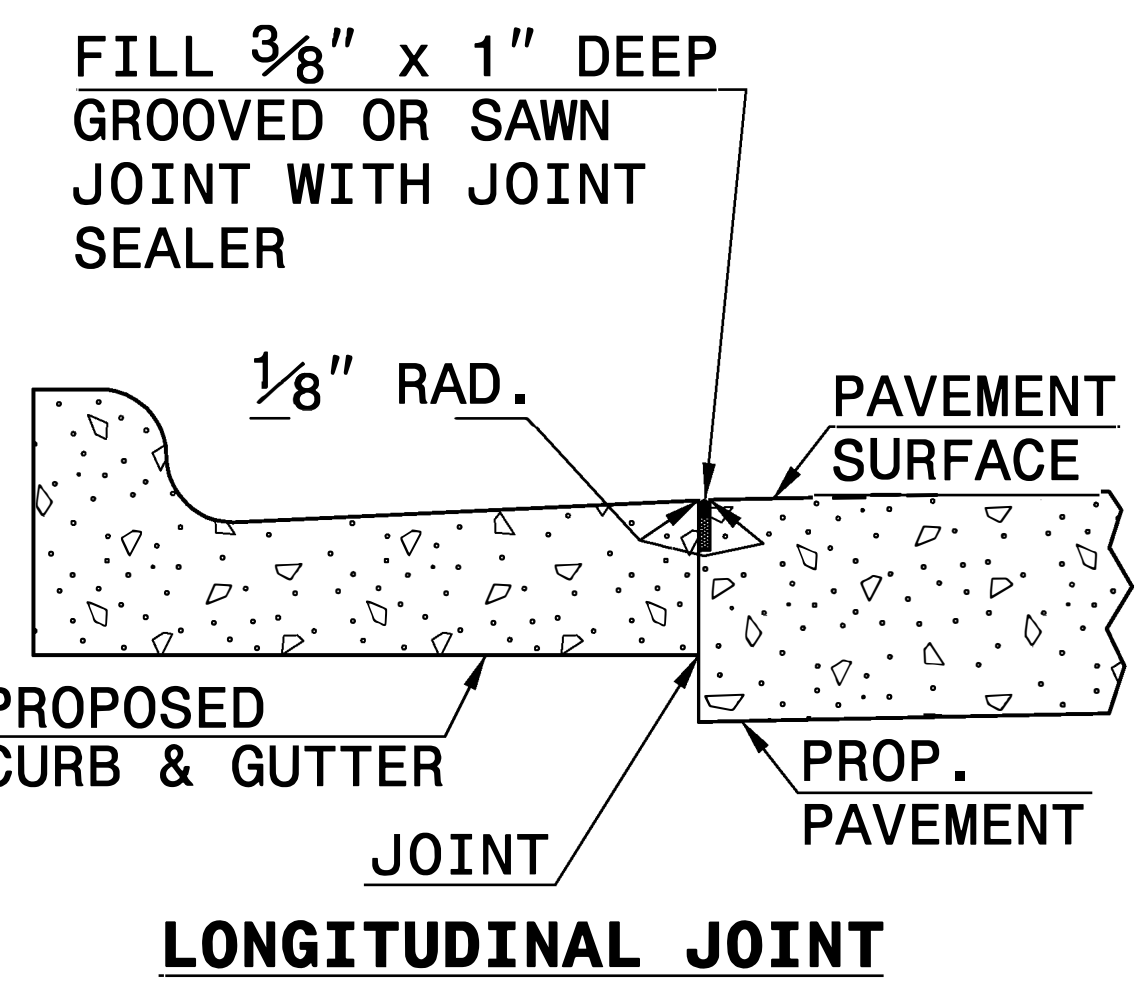
ROADWAY DETAIL DRAWING FOR  
**1'-6" CONCRETE CURB & GUTTER  
(SPECIAL)**

846d01

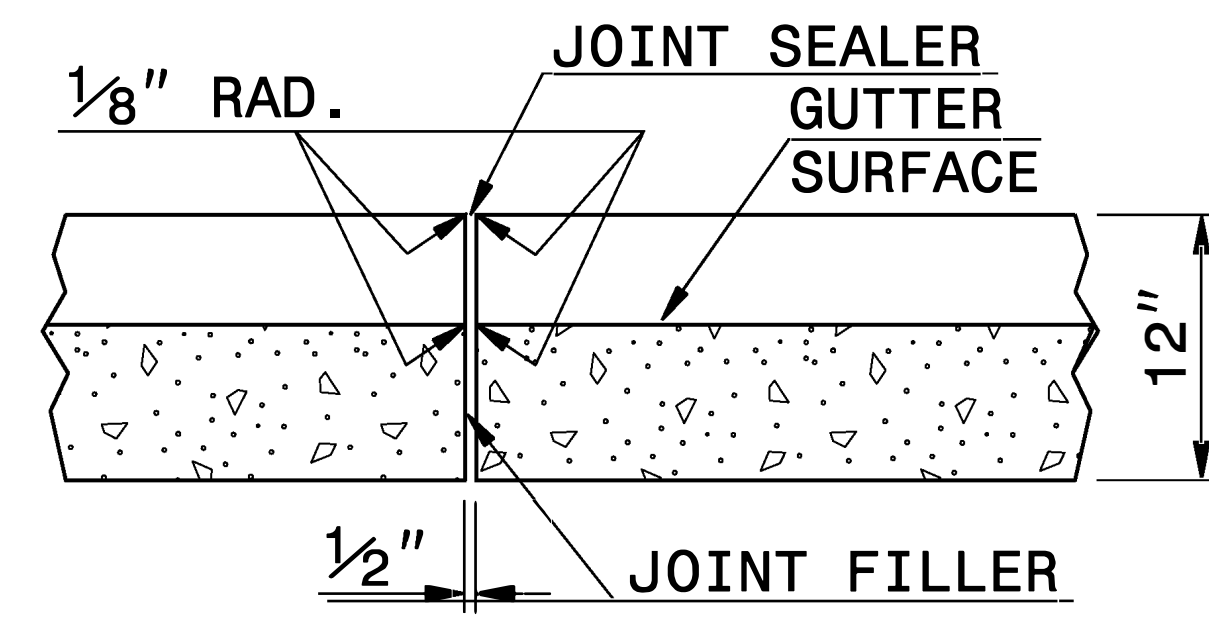


**1'-6" CURB AND GUTTER  
(SPECIAL)**  
**SECTION VIEW**

- GENERAL NOTES:
- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
  - JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
  - CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1 1/2" DEEP.
  - FILL ALL CONSTRUCTION JOINTS WITH JOINT FILLER AND SEALER.
  - SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



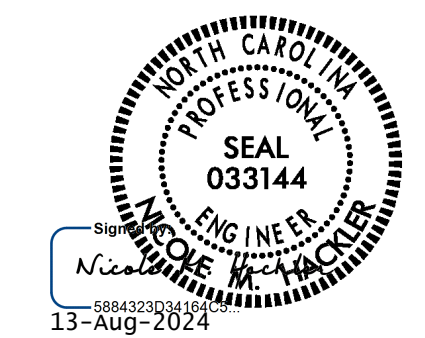
**LONGITUDINAL JOINT**



**TRANSVERSE EXPANSION JOINT  
IN CURB AND GUTTER**

**SECTION VIEW OF JOINTS**

16-NOV-2023 13:38  
S:\Contractors\CGN\trg\846d01\846d01 2ft C&G.dgn  
ktempf AT USD-320967



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

**SEE TITLE BLOCK**

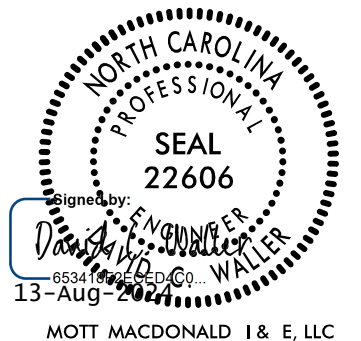


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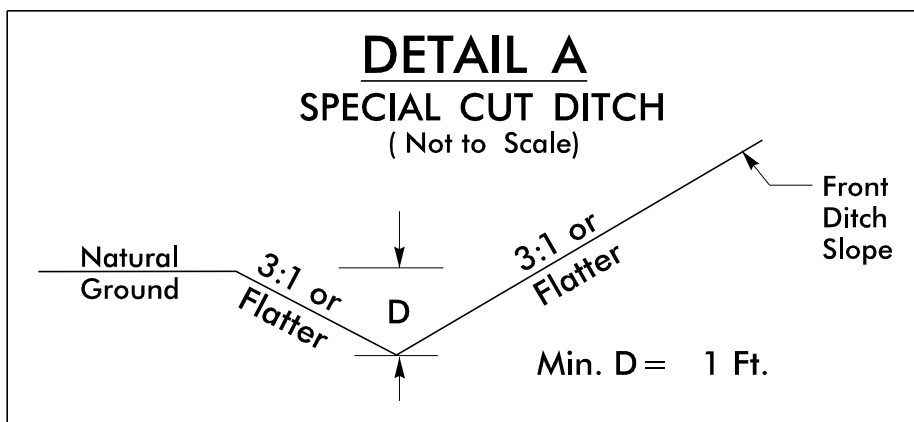




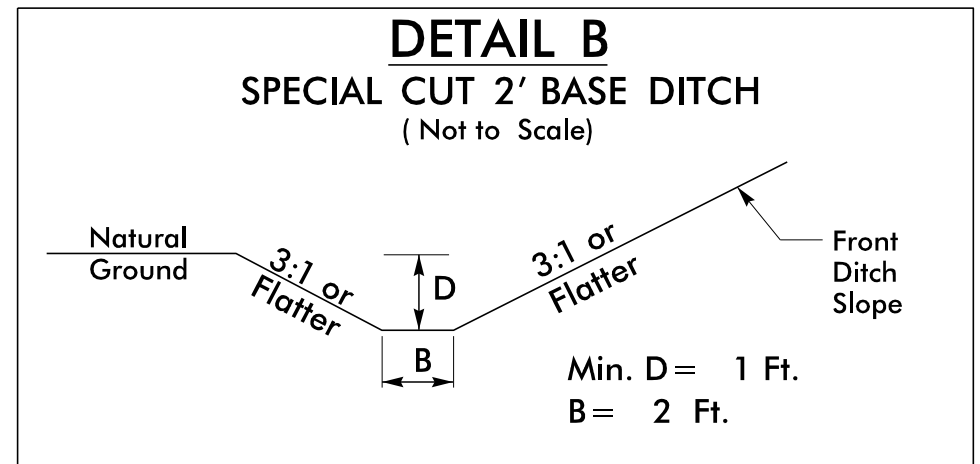


8/17/99

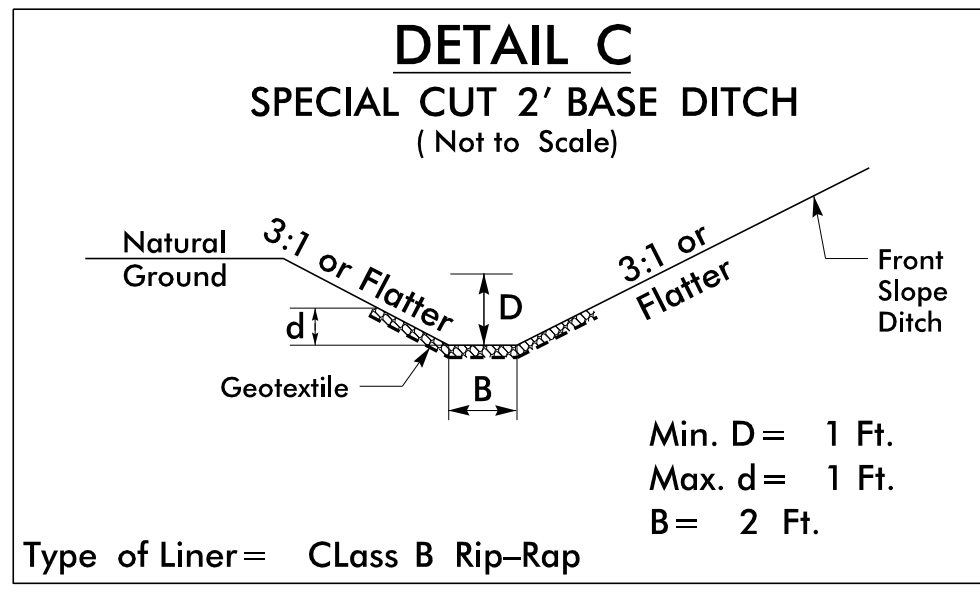
PROJECT REFERENCE NO. <b>R-5726</b>	SHEET NO. <b>2D-1</b>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	<b>M</b> MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



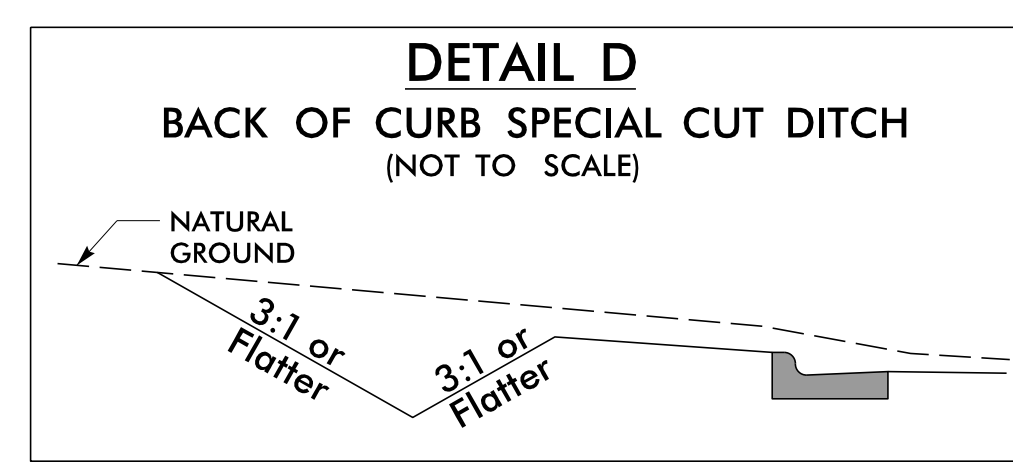
FROM STA. 14+17 -L- TO STA. 18+00 -L- LT  
 FROM STA. 16+70 -Y1- TO STA. 17+15 -Y1- RT  
 FROM STA. 13+50 -Y3- TO STA. 14+00 -Y3- RT  
 FROM STA. 54+00 -L- TO STA. 55+50 -L- LT  
 FROM STA. 11+75 -Y12- TO STA. 12+50 -Y12- RT  
 FROM STA. 11+75 -Y12- TO STA. 12+50 -Y12- LT  
 FROM STA. 63+50 -L- TO STA. 64+50 -L- RT  
 FROM STA. 64+00 -L- TO STA. 65+50 -L- LT  
 FROM STA. 74+50 -L- TO STA. 81+50 -L- LT  
 FROM STA. 86+75 -L- TO STA. 91+00 -L- LT  
 FROM STA. 167+50 -L- TO STA. 168+50 -L- LT  
 FROM STA. 170+20 -L- TO STA. 170+50 -L- RT  
 FROM STA. 195+87 -L- TO STA. 197+00 -L- RT  
 FROM STA. 209+00 -L- TO STA. 209+75 -L- LT  
 FROM STA. 211+80 -L- TO STA. 212+50 -L- RT  
 FROM STA. 231+05 -L- TO STA. 234+00 -L- RT  
 FROM STA. 10+75 -Y21- TO STA. 12+50 -Y21- RT  
 FROM STA. 11+00 -Y21- TO STA. 12+50 -Y21- LT  
 FROM STA. 241+50 -L- TO STA. 242+00 -L- RT  
 FROM STA. 243+00 -L- TO STA. 244+00 -L- LT  
 FROM STA. 13+35 -NBL- TO STA. 13+85 -NBL- RT  
 FROM STA. 20+35 -NBL- TO STA. 21+35 -NBL- RT  
 FROM STA. 13+00 -Y4- TO STA. 18+45 -Y4- LT



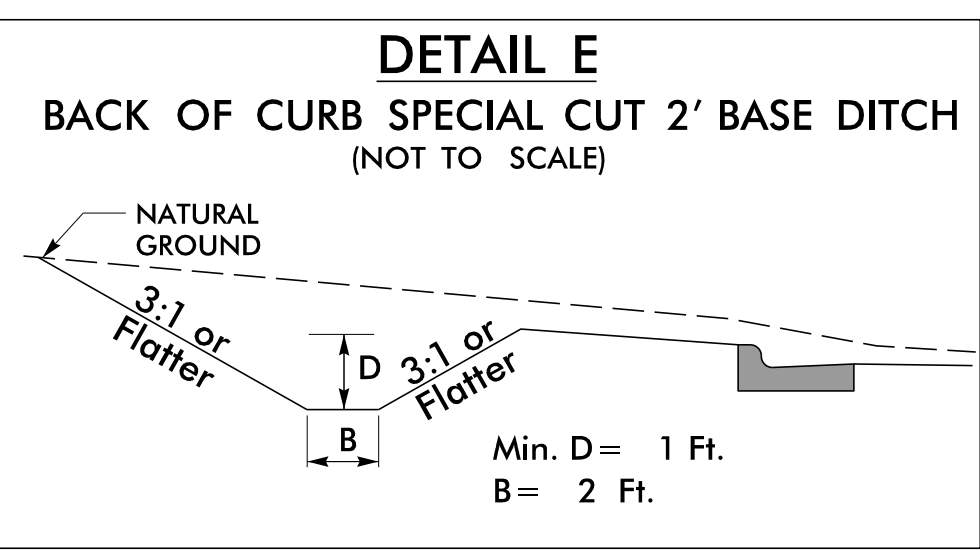
FROM STA. 12+10 -Y14- TO STA. 14+50 -Y14- LT  
 FROM STA. 162+50 -L- TO STA. 164+75 -L- LT  
 FROM STA. 11+62 -Y18- TO STA. 12+25 -Y18- RT



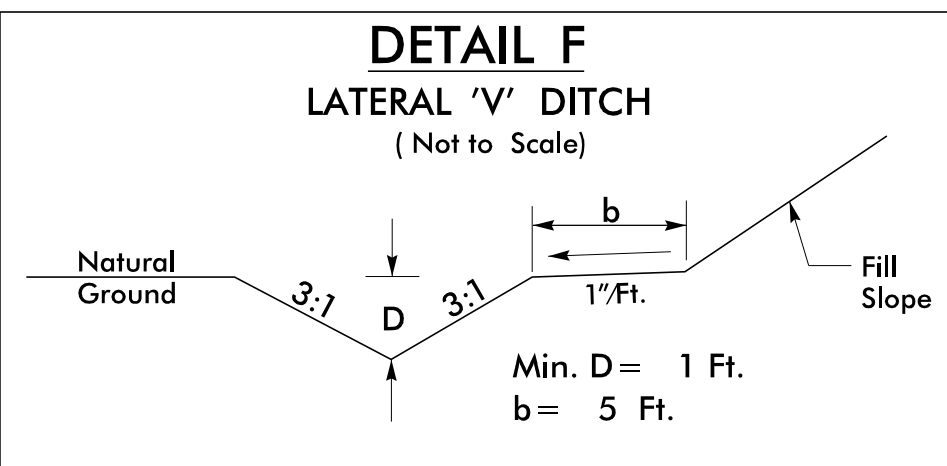
Type of Liner = Class B Rip-Rap  
 FROM STA. 59+73 -L- TO STA. 60+00 -L- RT  
 FROM STA. 14+50 -Y14- TO STA. 15+75 -Y14- LT



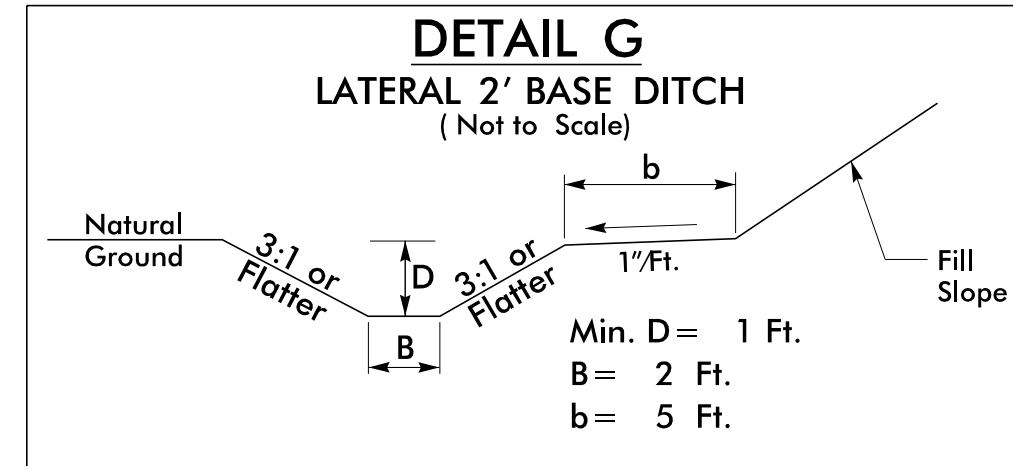
FROM STA. 22+00 -L- TO STA. 23+50 -L- LT  
 FROM STA. 25+85 -L- TO STA. 27+00 -L- LT  
 FROM STA. 33+00 -L- TO STA. 35+00 -L- LT



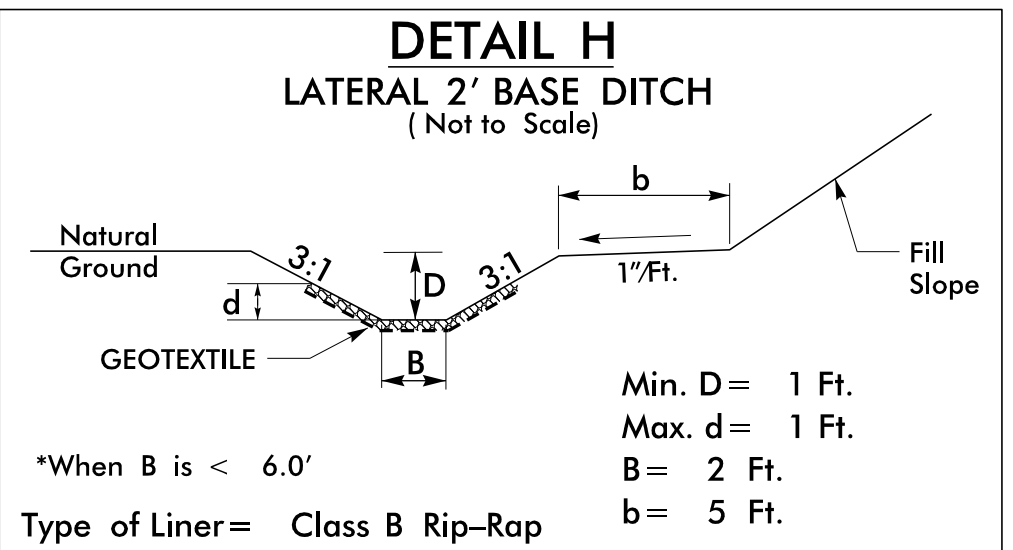
FROM STA. 11+00 -Y14- TO STA. 12+10 -Y14- LT



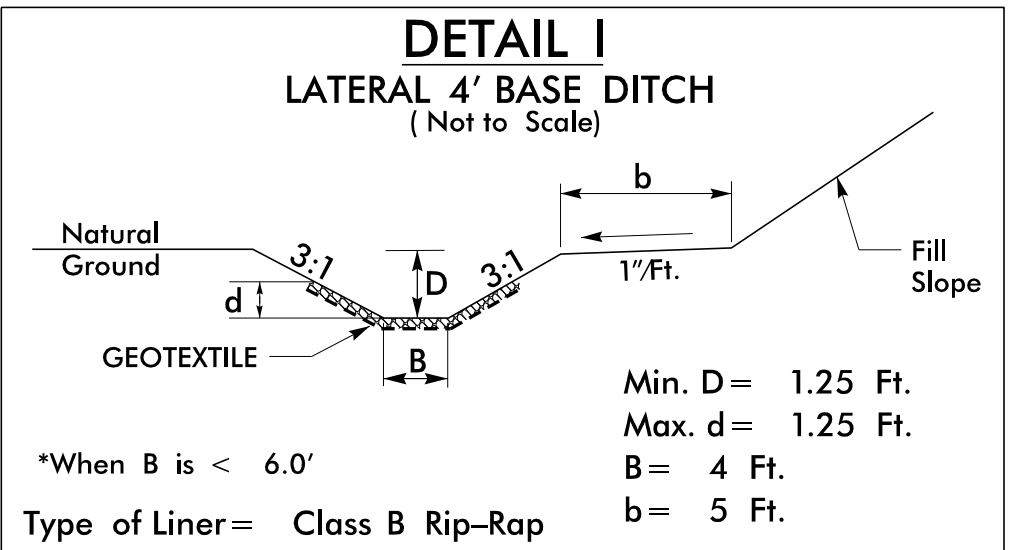
FROM STA. 63+05 -L- TO STA. 64+00 -L- LT  
 FROM STA. 10+50 -Y18- TO STA. 12+38 -Y18- LT  
 FROM STA. 165+45 -L- TO STA. 166+00 -L- LT



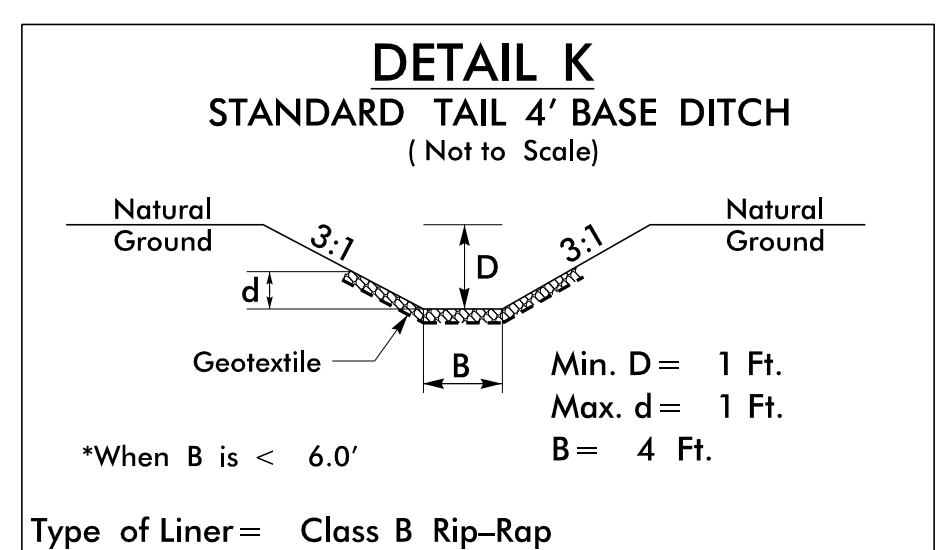
FROM STA. 62+00 -L- TO STA. 63+05 -L- LT



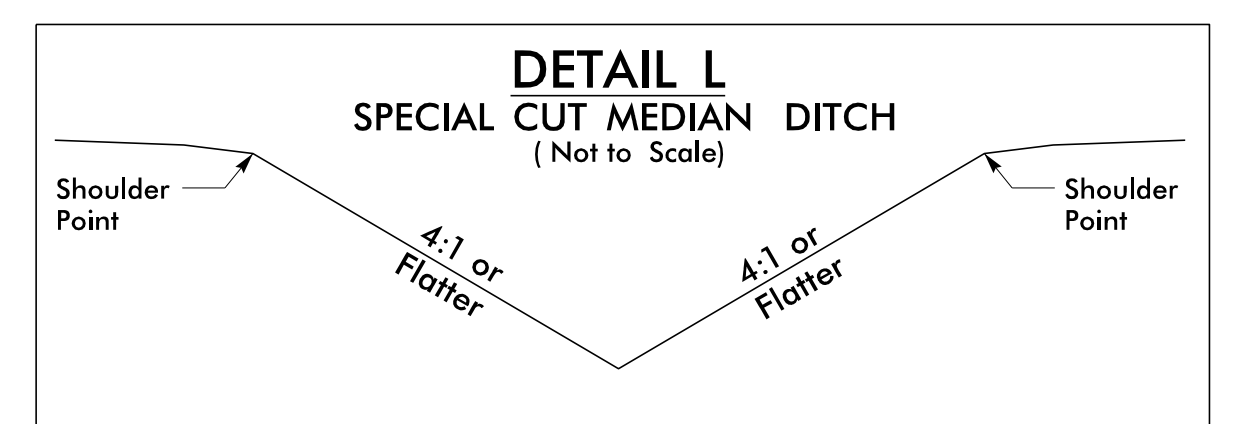
FROM STA. 60+00 -L- TO STA. 62+50 -L- RT  
 FROM STA. 191+25 -L- TO STA. 194+50 -L- LT



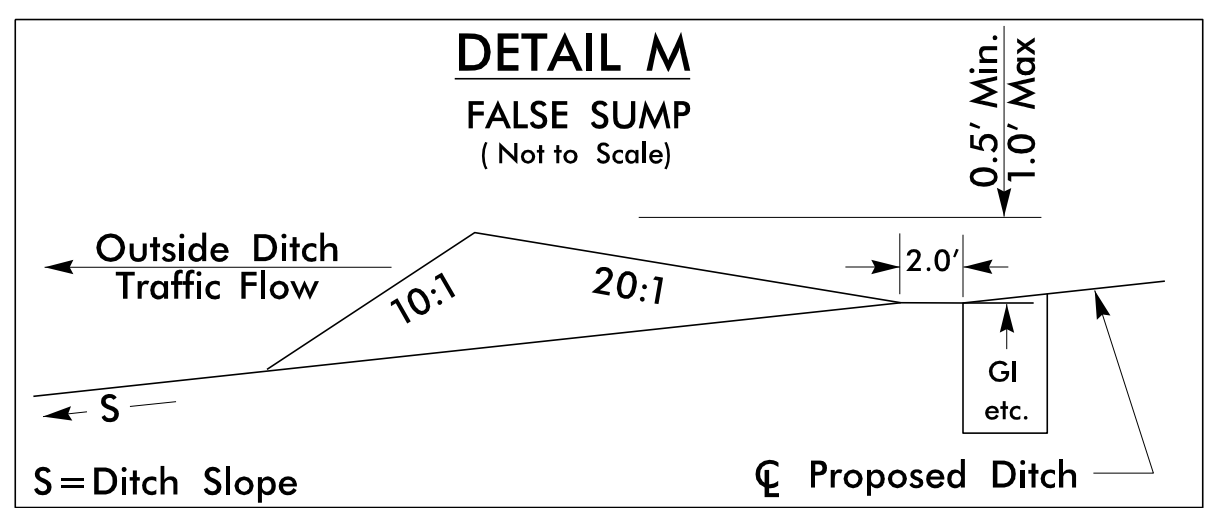
FROM STA. 77+80 -L- TO STA. 80+50 -L- RT



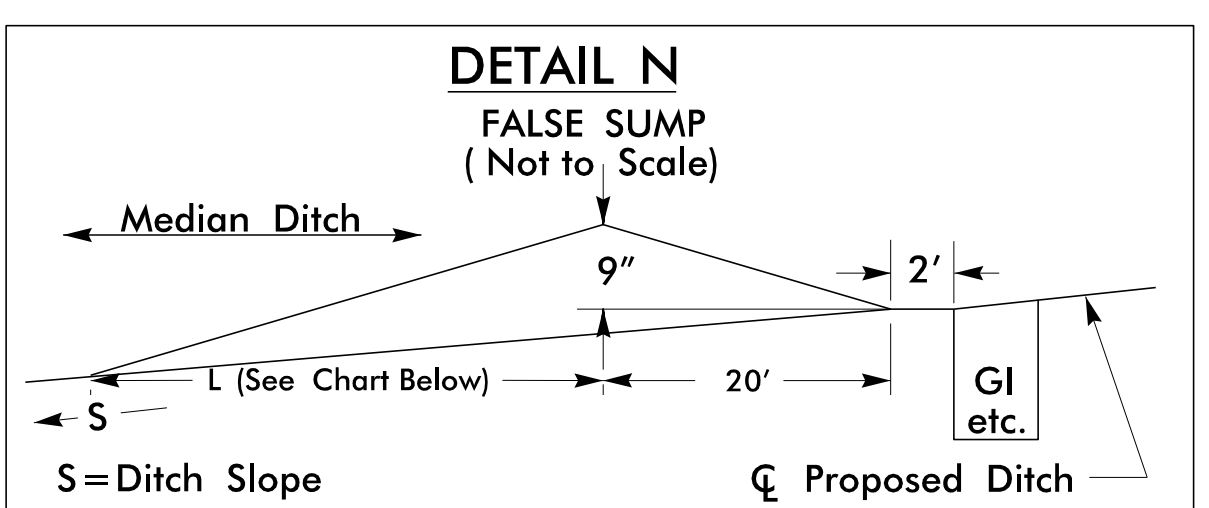
FROM STA. 15+75 -Y14- LT



FROM STA. 205+50 -L- TO STA. 206+75 -L- M  
 FROM STA. 238+50 -L- TO STA. 241+50 -L- M

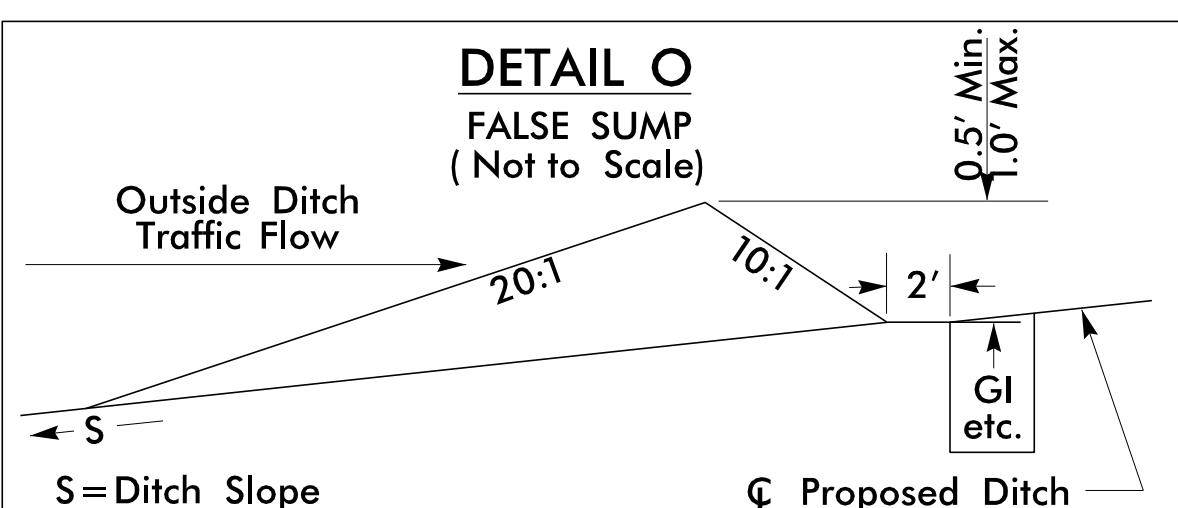


STA. 53+82 -L- LT  
 STA. 70+86 -L- LT  
 STA. 80+36 -L- LT  
 STA. 177+65 -L- RT  
 STA. 182+13 -L- RT  
 STA. 220+35 -L- LT  
 STA. 225+85 -L- LT

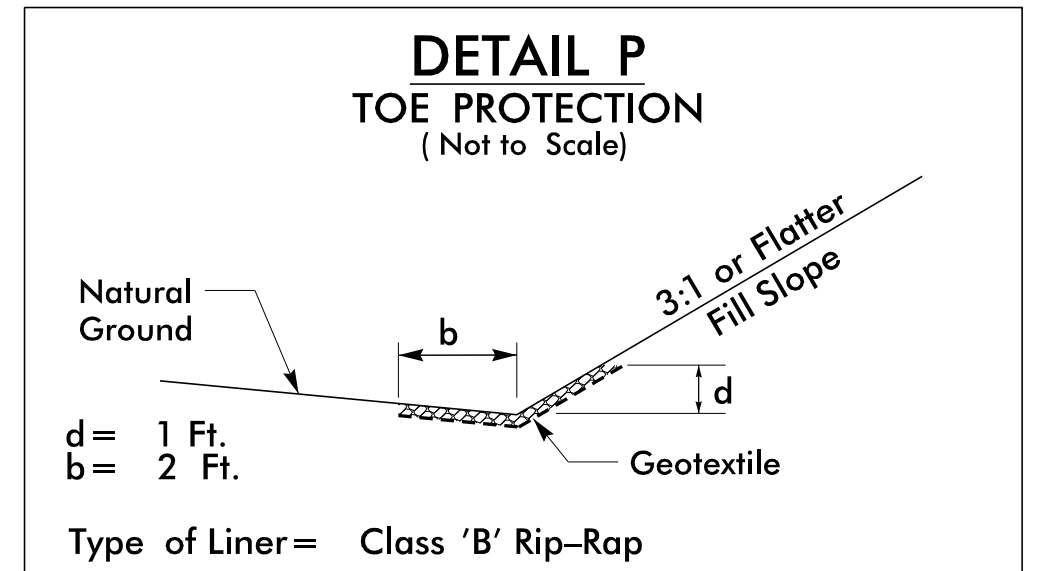


Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

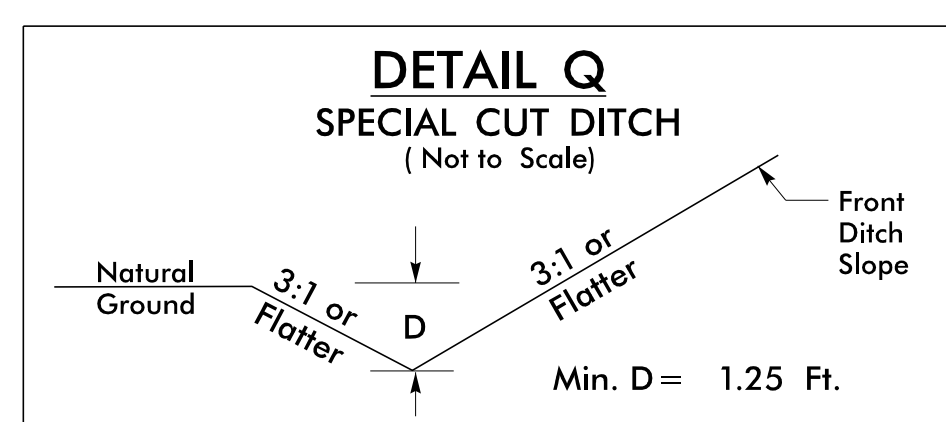
STA. 177+65 -L- M  
 STA. 182+13 -L- M  
 STA. 184+62 -L- M  
 STA. 186+15 -L- M  
 STA. 188+18 -L- M  
 STA. 192+10 -L- M  
 STA. 198+87 -L- M  
 STA. 215+26 -L- M  
 STA. 220+35 -L- M  
 STA. 225+85 -L- M  
 STA. 251+15 -L- M  
 STA. 253+14 -L- M



STA. 93+64 -L- LT  
 STA. 177+65 -L- LT  
 STA. 182+13 -L- LT  
 STA. 184+62 -L- LT  
 STA. 198+87 -L- RT  
 STA. 220+35 -L- RT  
 STA. 225+85 -L- RT



FROM STA. 66+00 -L- TO STA. 67+50 -L- LT  
 FROM STA. 188+50 -L- TO STA. 188+75 -L- LT



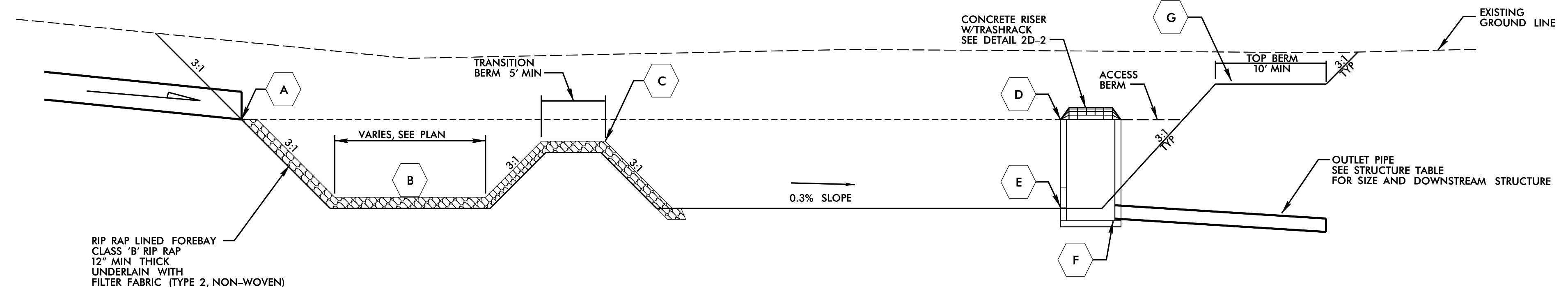
FROM STA. 11+25 -Y14- TO STA. 16+00 -Y14- RT



# DRY DETENTION BASIN

\*NOT TO SCALE\*

PROJECT REFERENCE NO.	SHEET NO.
R-5726	2D-2
RW SHEET NO.	
HYDRAULICS ENGINEER	



TYPICAL SECTION

- NOTES:
- SEE PLANS FOR LOCATION AND BASIN DIMENSIONS.
  - IF SEASONAL HIGH WATER TABLE (SHWT) IS WITHIN 2' OF THE BASIN BOTTOM, CONTACT THE NCDOT HYDRAULIC UNIT PRIOR TO CONSTRUCTION.
  - ALL DISTURBED BASIN SLOPES DRAINING INTO THE BASIN SHALL BE SODDED WITH BERMUDA SOD.
  - ACCESS BERM SHOULD BE PROVIDED TO CONTROL STRUCTURE ON ALL BASINS AS SHOWN IN DETAIL.

RIP RAP LINED FOREBAY  
CLASS 'B' RIP RAP  
12" MIN THICK  
UNDERLAIN WITH  
FILTER FABRIC (TYPE 2, NON-WOVEN)

OUTLET PIPE  
SEE STRUCTURE TABLE  
FOR SIZE AND DOWNSTREAM STRUCTURE

TABLE 1  
ELEVATIONS FOR DRY DETENTION BASIN

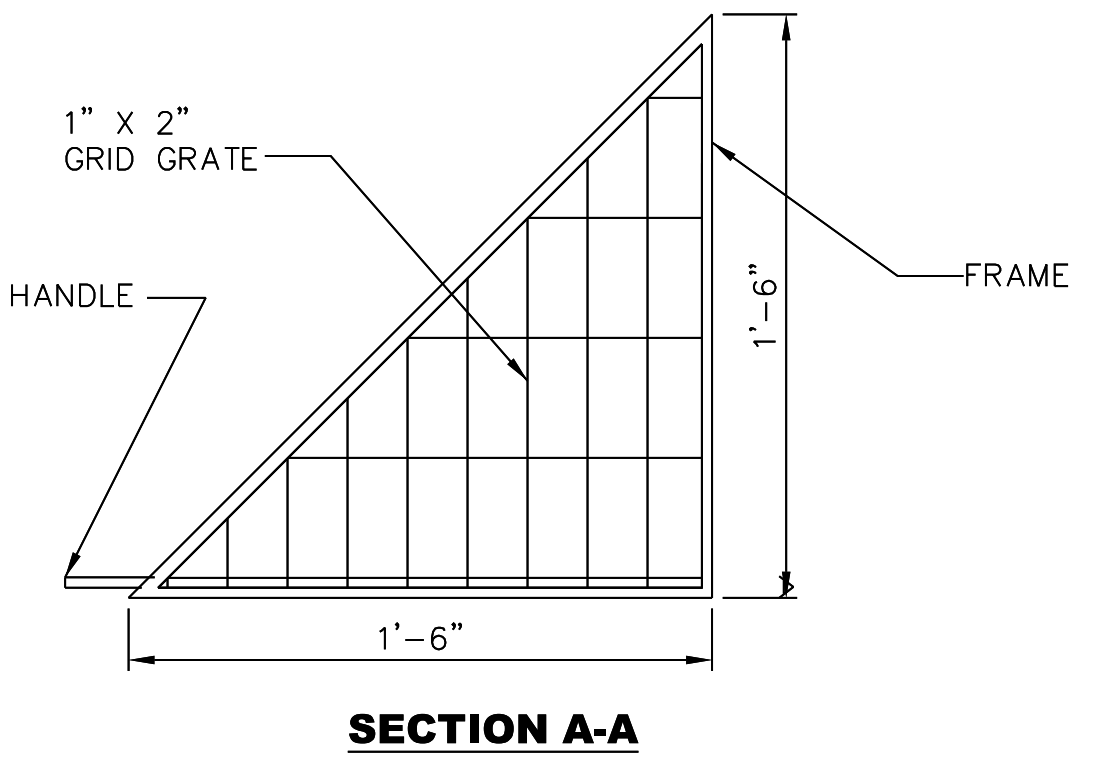
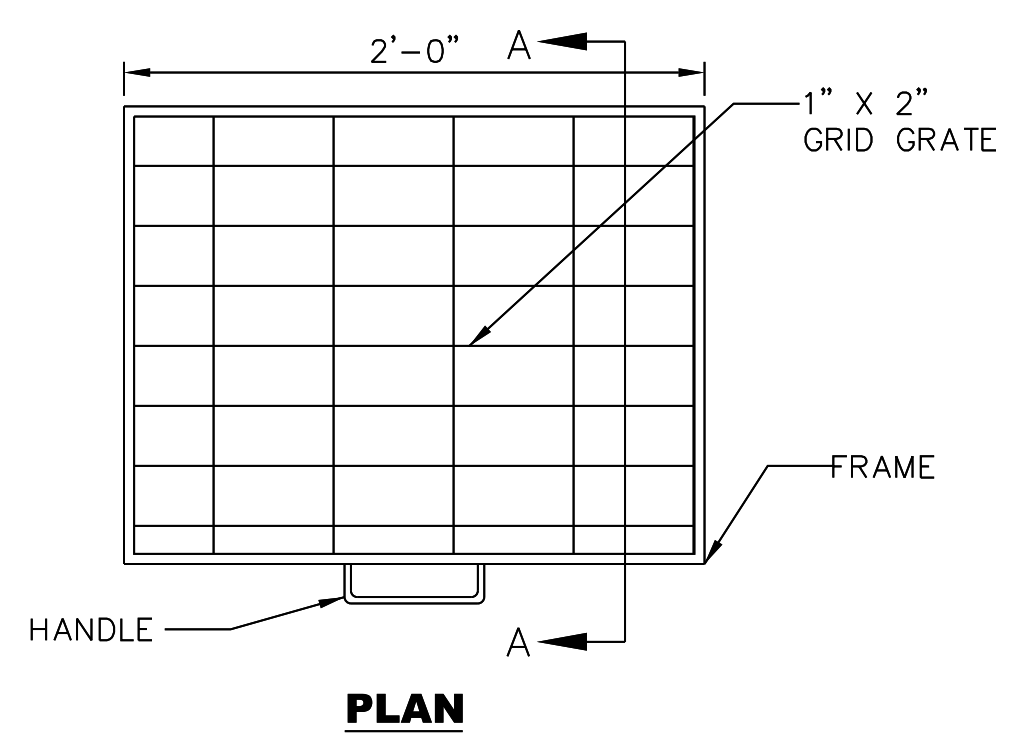
STATION	A (INLET PIPE INVERT)	B (FOREBAY BOTTOM)	C (FOREBAY BERM)	D (WEIR ELEV)	E (ORIFICE INVERT)	F (OUTLET INVERT)	G (TOP OF BERM)
120+00 RT	578.00	575.00	578.00	578.50	575.00	572.00	582.00
215+00 RT	611.30	608.30	611.30	610.80	608.30	606.80	615.30

# REMOVABLE ORIFICE TRASH RACK

\*NOT TO SCALE\*

\*\*TRASH RACK IS INCIDENTAL TO THE DRAINAGE STRUCTURE\*\*

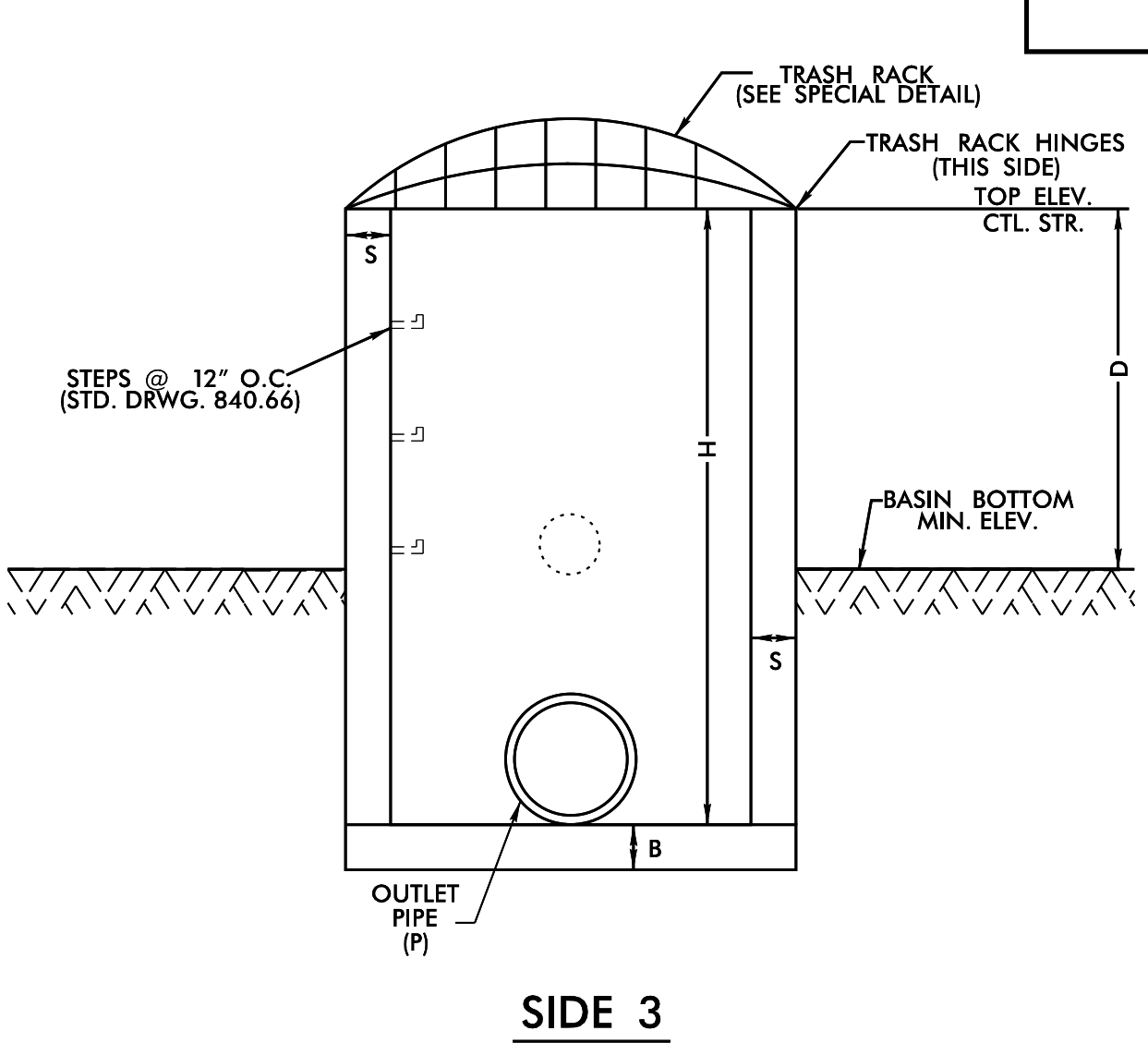
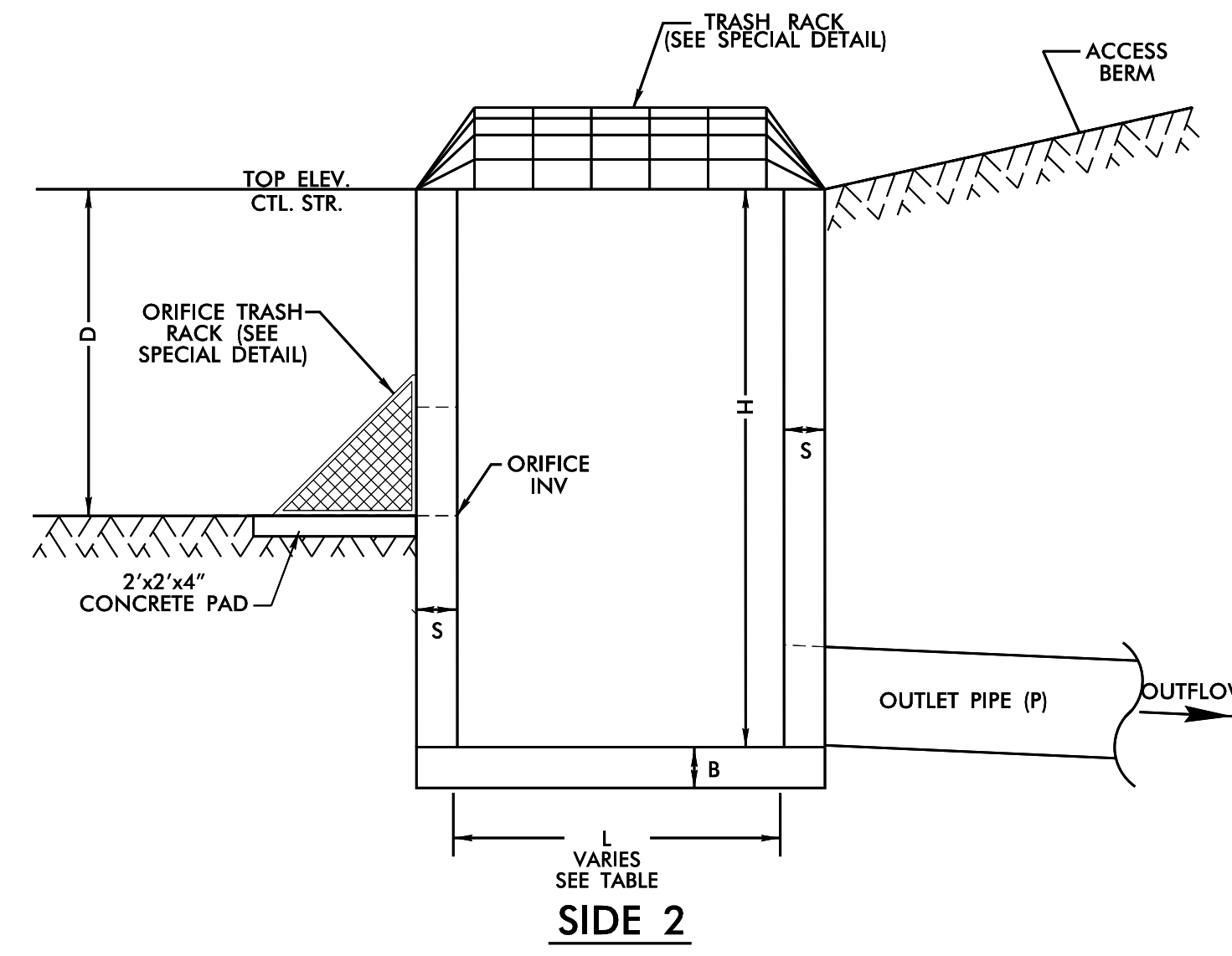
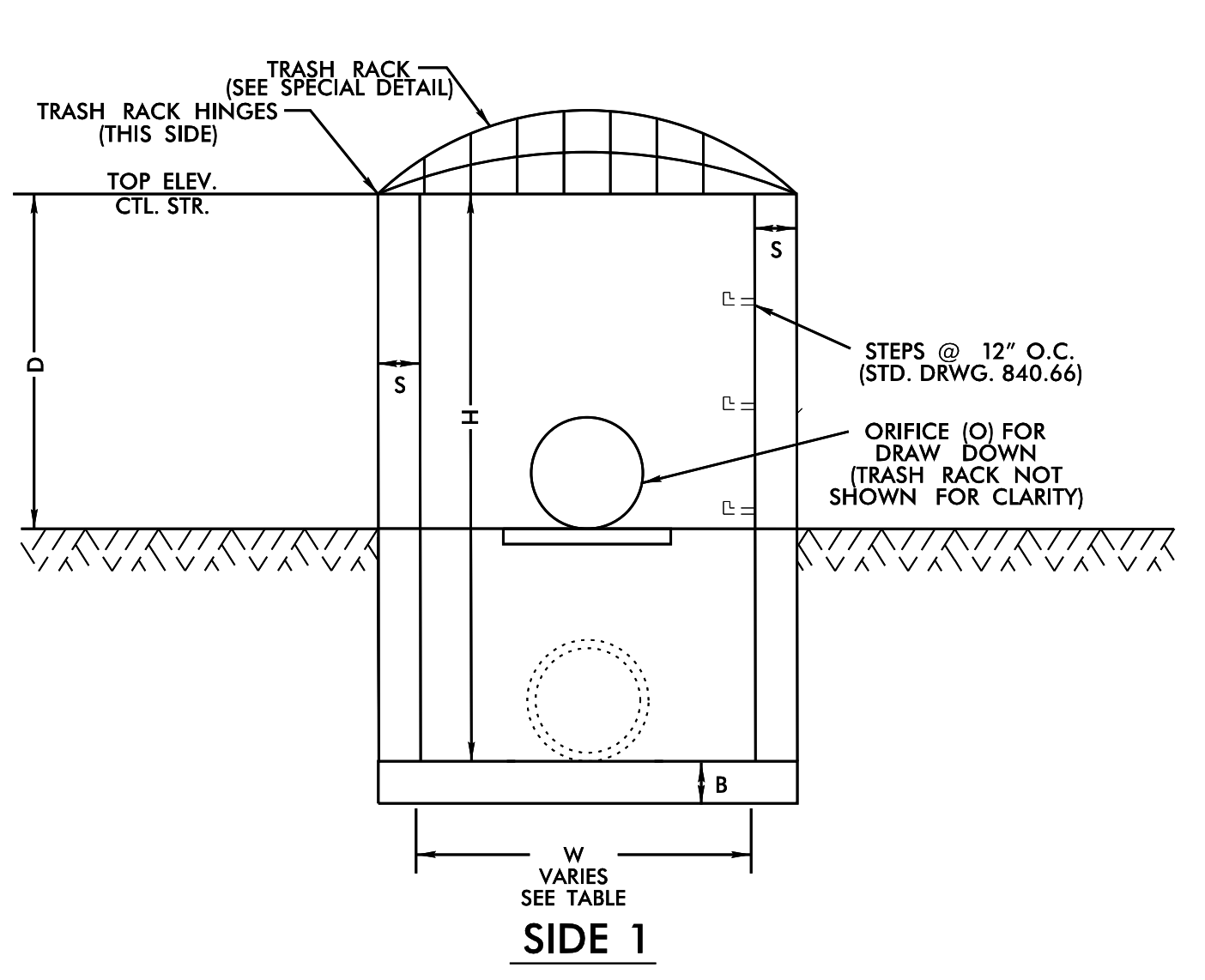
- ORIFICE TRASH RACK NOTES:
- ALL JOINTS SHALL BE FULLY WELDED AROUND JOINT WITH A MINIMUM OF A 1/4" BEAD.
  - IF BOLTS ARE ANCHORED IN CONCRETE, FOLLOW STD. DWG. 862.03 AND 862.04 FOR ANCHORING PROCEDURE.
  - REMOVABLE ORIFICE TRASH RACK SHALL BE ATTACHED TO CONCRETE BOX BY HINGE OR SLIDE RAIL SYSTEM.
  - RACK AND HARDWARE SHALL BE ALUMINUM OR GALVANIZED IN ACCORDANCE WITH ASTM A-153.



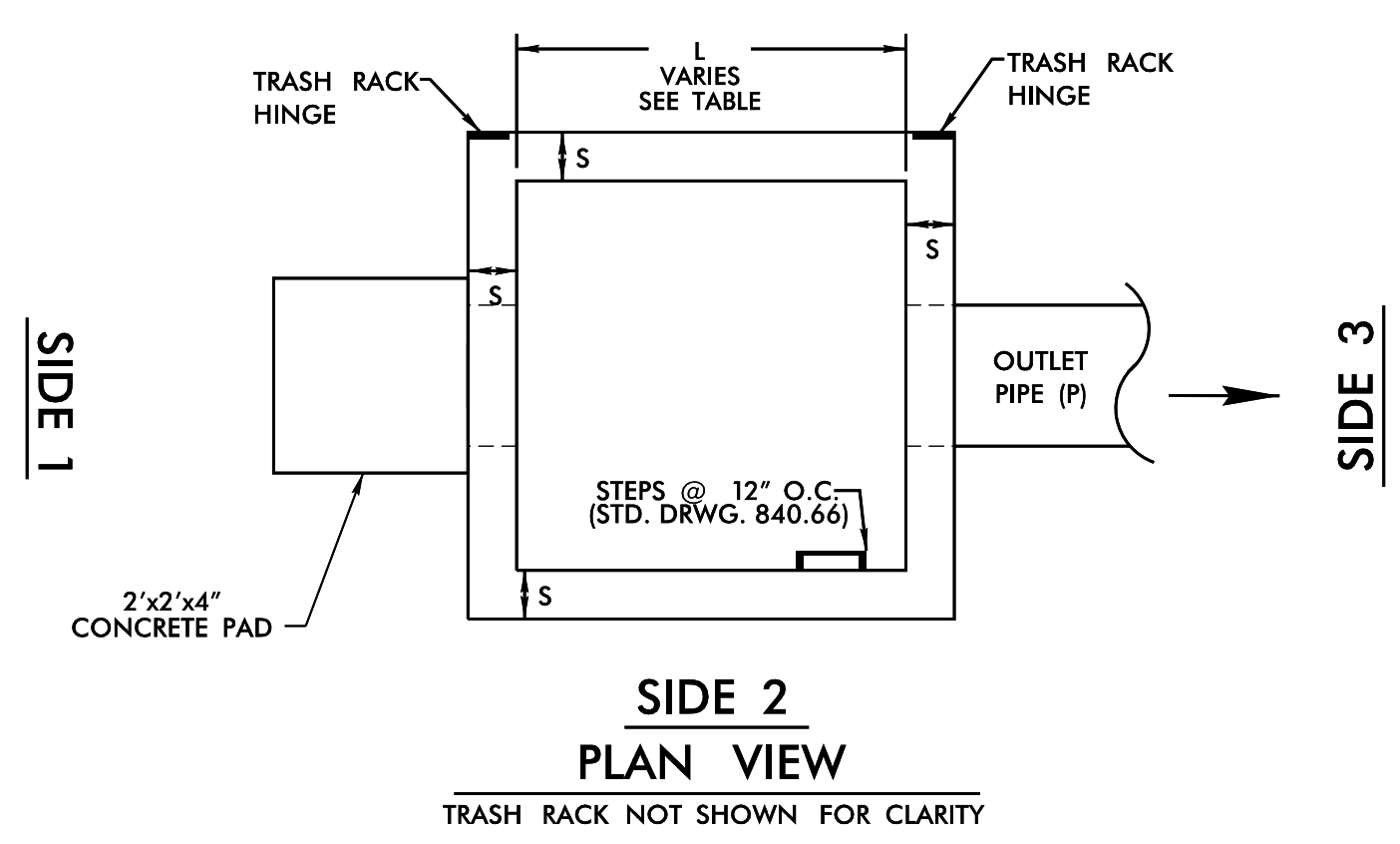
PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: JMAS5ROC  
 FILE: hotch\_mott\_mccdonald.i.e.llc\hmmi.e.mst\_14.pri\dsn\_5357\hmmi.e.5357\w07\_r5726.nc211.nc73\6.0.cad\btm\6.2\work\tr\progress\hydraulics\rs726.hyd.psh\_2d-2\_basin\_details.dgn  
 PENTABLE: NCDOT\_REDLINE\$.tbl  
 TIME: 10:48:22 AM  
 DATE: 11/12/2024  
 REVISIONS

# OUTLET CONTROL STRUCTURE

\*NOT TO SCALE\*



- NOTES:
1. TOP ELEVATION OF CONTROL STRUCTURE (WEIR ELEVATION) SHOULD BE SET BELOW THE 50-YEAR EVENT WATER SURFACE ELEVATION.
  2. NO BEDDING MATERIAL TO BE USED TO PREVENT SEEPAGE. THEREFORE, DO NOT FOLLOW STANDARD DRAWINGS FOR METHOD OF PIPE INSTALLATION FOR OUTLET PIPE THROUGH EMBANKMENT.
  3. CONTROL STRUCTURE AND OUTLET PIPE ARE SIZED TO PASS THE 100-YEAR EVENT.
  4. CONSTRUCT TRASH RACK TO SPAN OUTLET CONTROL STRUCTURE.
- SELECT BOX STANDARD AS REQUIRED TO ACCOMMODATE ORIFICE TRASH RACK WIDTH AND OUTLET PIPE.
5. FOOTER DIMENSION (B) IS ADJUST FOR ANTI-FLOTATION.
  6. WATER TIGHT SEALS ARE REQUIRED AT ALL PIPE CONNECTIONS TO STRUCTURE.



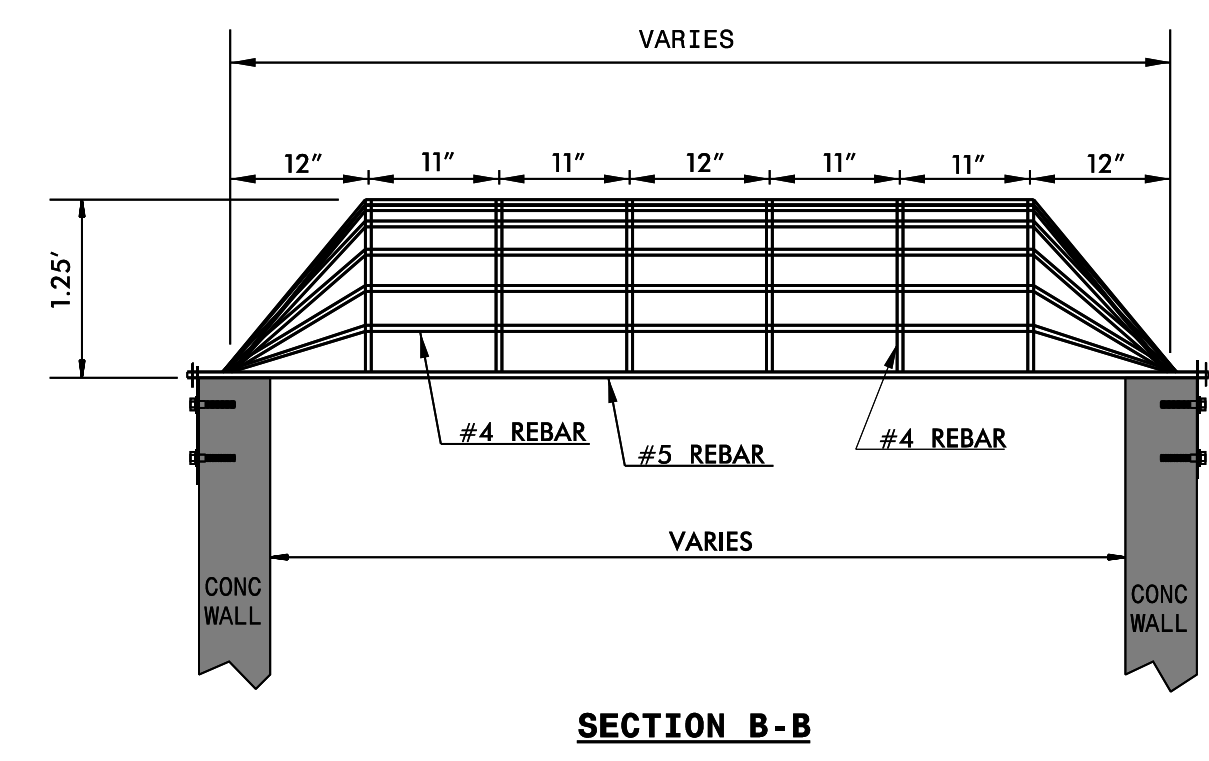
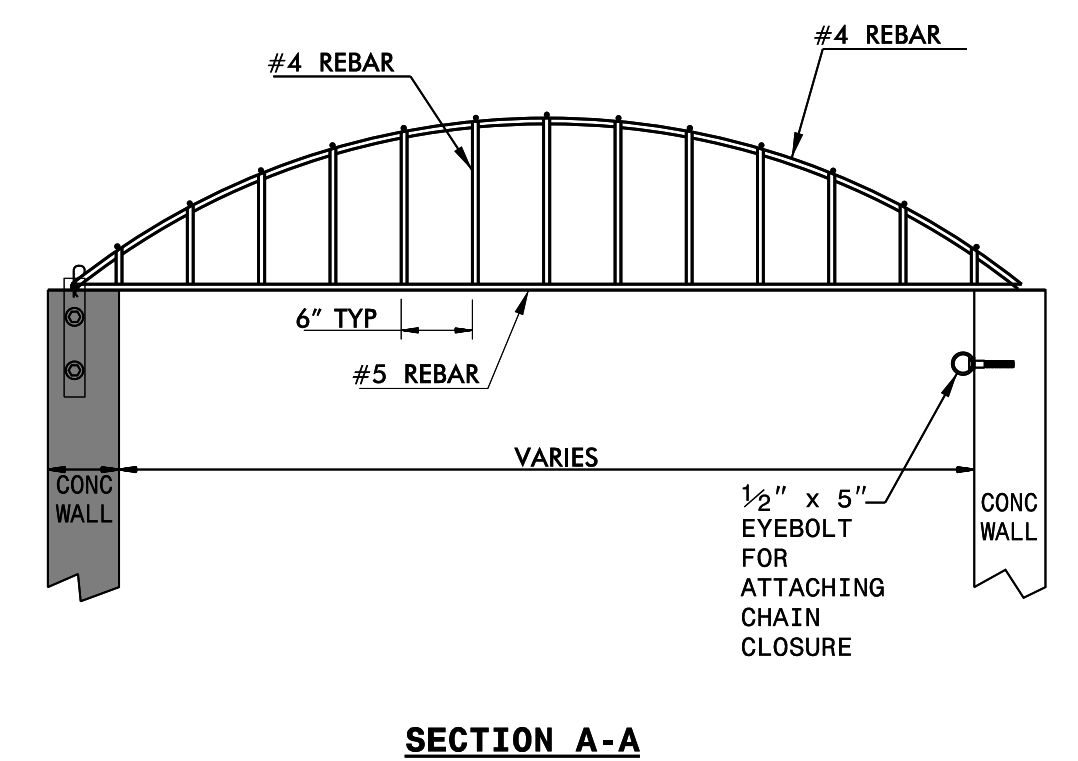
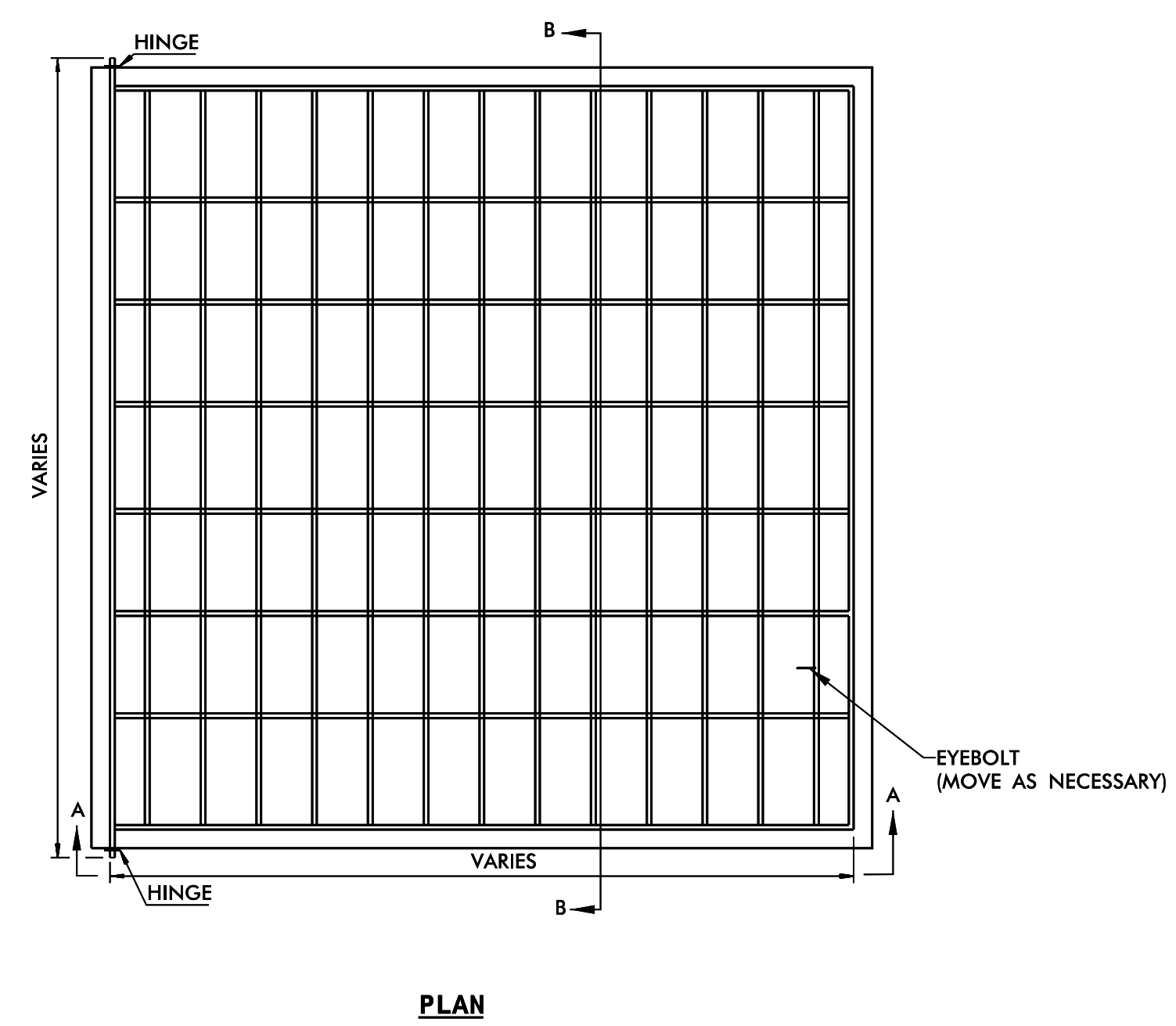
STATION	STRUCTURE NUMBER	S (INCHES) 6" MIN.	B (INCHES) 6" MIN.	TOP ELEVATION CONTROL STRUCTURE	MAX. STORAGE DEPTH(D) FEET	ORIFICE DIAMETER (O) INCHES	ORIFICE INV. ELEV.	CONTROL STRUCTURE INV. ELEV.	CTL. STR. DIMENSIONS (W x L x H)	OUTLET PIPE DIAMETER(P) INCHES
120+00 RT	1242	6	21	580.00	4.00	12	576.00	572.00	4x4x8.0	36
215+00 RT	1919	6	12	610.80	2.50	12	608.30	606.80	4x4x4.0	36

# REBAR TRASH RACK

\*NOT TO SCALE\*

\*\*TRASH RACK IS INCIDENTAL TO THE DRAINAGE STRUCTURE\*\*

- RISER TRASH RACK NOTES:
1. ALL JOINTS SHALL BE FULLY WELDED AROUND JOINT WITH A MINIMUM OF A 1/4" BEAD.
  2. IF BOLTS ARE ANCHORED IN CONCRETE, FOLLOW STD. DWG. 862.03 AND 862.04 FOR ANCHORING PROCEDURE.
  3. EYEBOLT FOR CHAIN CLOSURE SHALL BE INSTALLED BY THE SAME METHOD AS THE HINGE PLATE BOLTS.
  4. RACK AND HARDWARE SHALL BE ALUMINUM OR REBAR AND GALVANIZED IN ACCORDANCE WITH ASTM A-153.
  5. ENSURE TRASH RACK OPENS FREELY AND WITHOUT INTERFERENCE WITH SLUICE GATES.



PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: JMAS55ROO  
 FILE: hotch\_mott\_macdonald.i.e.llc\hmmi.e.mst\_14.pn\_dsn\_5357\hmmi.e.5357\707\_r5726.nc211.nc73\6.0.cad.btm.6.2.wrk.tr.\_Progress\Hydraulics\R5726\_HYD.psh.2D-2.Basin\_Details.dgn  
 PENTABLE: NCDOT\_RED\_LINES.tbl  
 TIME: 10:49:03 AM  
 DATE: 11/12/2024

REVISIONS



DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

**SUMMARY OF EARTHWORK**  
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
<b>PHASE I</b>					
-L- LT 9+00.00 TO 18+47.00	735		910	175	
-L- LT 18+47.00 TO 29+91.00	3,702		4,242	540	
-L- LT 29+91.00 TO 36+19.00	3,159		623		2,536
-Y1- 16+70.00 TO 17+49.76	144		49		95
-Y3- 13+10.00 TO 14+57.29	790				790
-Y8A- 10+00.00 TO 11+20.93	753				753
SUBTOTAL	9,283		5,824	715	4,174
-L- LT 36+19.00 TO 55+77.00	2,031		4,201	2,170	
-L- LT 55+77.00 TO 62+40.00	1,013		90		923
-Y12- 11+75.00 TO 12+71.74	272				272
SUBTOTAL	3,316		4,291	2,170	1195
-L- RT 59+15.00 TO 89+00.00	1,201		32,239	31,038	
-L- RT 89+00.00 TO 98+90.00	68		4,932	4,864	
SUBTOTAL	1,269		37,171	35,902	
-L- RT 98+90.00 TO 128+00.00	32		12,793	12,761	
-Y14- 10+38.80 TO 16+70.00	81		1,222	1,141	
BASIN 1 119+00.00	4,278				4,278
SUBTOTAL	4,391		14,015	13,902	4,278
-L- RT 128+00.00 TO 131+50.00	109		318	209	
-L- RT 131+50.00 TO 151+44.00	595		5,659	5,064	
-L- RT 151+44.00 TO 168+00.00	78		19,218	19,140	
-ACCI- 10+37.67 TO 14+24.60	204		348	144	
-Y16- 10+37.50 TO 17+25.00	271		1,038	767	
-Y17- 10+37.58 TO 12+00.00	7		1,056	1,049	
SUBTOTAL	1,264		27,637	26,373	
-L- RT 168+00.00 TO 180+00.00	22,393		2,208		20,185
-L- RT 180+00.00 TO 195+15.00	4,342		99,673	95,331	
-Y18- 10+50.00 TO 12+74.71	97		528	431	
SUBTOTAL	26,832		102,409	95,762	20,185
-L- RT 195+15.00 TO 225+00.00	18,613		6,959		11,654
-L- MED 194+75.00 TO 196+00.00	35		24		11
-L- MED 196+00.00 TO 206+50.00	413		34		379
-Y19- 10+47.11 TO 11+40.00	8		343	335	
-DRI- 10+61.28 TO 11+45.00	1		116	115	
SUBTOTAL	19,070		7,476	450	12,044
-L- RT 225+00.00 TO 234+40.00	2,349		1,222		1,127
-Y21- 10+47.05 TO 12+50.00	122		400	278	
BASIN 2 215+50.00	3,358				3,358
SUBTOTAL	5,829		1,622	278	4,485
-L- RT 234+40.00 TO 262+75.00	2,962		9,386	6,424	
SUBTOTAL	2,962		9,386	6,424	
<b>PHASE I TOTAL</b>	<b>74,216</b>		<b>209,831</b>	<b>181,976</b>	<b>46,361</b>

**SUMMARY OF EARTHWORK**  
 IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
<b>PHASE II</b>					
-L- RT 9+00.00 TO 27+50.00	34		1,441	1,407	
-L- RT 27+50.00 TO 30+00.00			108	108	
-L- RT 30+00.00 TO 36+00.00	3		271	268	
-Y4- 10+38.39 TO 18+25.00	346		508	162	
SUBTOTAL	383		2,328	1,945	
-L- RT 36+00.00 TO 39+95.00	53		720	667	
-L- RT 39+95.00 TO 43+95.00	111		602	491	
-L- RT 43+95.00 TO 47+38.00	7		338	331	
-L- RT 47+38.00 TO 59+15.00	2,835		544		2,291
-Y8- 10+37.51 TO 12+00.00	37		184	147	
-Y9- 10+38.08 TO 11+65.00	318		1		317
-Y10- 10+37.50 TO 11+25.00	12		132	120	
-Y11- 10+37.50 TO 11+25.00	17		88	71	
SUBTOTAL	3,390		2,609	1,827	2,608
-L- LT 62+40.00 TO 86+26.00	1,074		1,660	586	
SUBTOTAL	1,074		1,660	586	
-L- LT 86+26.00 TO 115+00.00	485		2,544	2,059	
-L- LT 115+00.00 TO 131+54.00	90		1,598	2,059	
-Y13- 12+55.00 TO 13+01.73	30		38	8	
SUBTOTAL	605		4,180	3,575	
-L- LT 131+54.00 TO 160+00.00	429		1,020	591	
-L- LT 160+00.00 TO 165+00.00	440		175		265
-L- LT 165+00.00 TO 168+00.00	21		2		19
-Y15- 13+40.00 TO 13+68.41	12		38	26	
SUBTOTAL	902		1,235	617	284
-L- LT 168+00.00 TO 195+00.00	11,797		11,022		775
SUBTOTAL	11,797		11,022		775
-L- LT 195+00.00 TO 207+28.00	4,213		24		4,189
-Y20- 13+50.00 TO 14+38.74	51		12		39
SUBTOTAL	4,264		36		4,228
-L- LT 207+28.00 TO 237+00.00	1,532		1,746	214	
SUBTOTAL	1,532		1,746	214	
-L- LT 237+00.00 TO 262+75.00	687		756	69	
SUBTOTAL	687		756	69	
<b>PHASE II TOTAL</b>	<b>24,634</b>		<b>25,572</b>	<b>8,833</b>	<b>7,895</b>

NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

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## SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
<b>PHASE III</b>					
-L- MED 9+00.00 TO 18+50.00	144		442	298	
-L- MED 18+50.00 TO 30+00.00	124		1,385	1,261	
SUBTOTAL	268		1,827	1,559	
-L- MED 30+00.00 TO 60+00.00	358		1,912	1,554	
SUBTOTAL	358		1,912	1,554	
-L- MED 60+00.00 TO 90+00.00	434		598	164	
SUBTOTAL	434		598	164	
-L- MED 90+00.00 TO 99+00.00	457		0		457
-L- MED 99+00.00 TO 131+40.00	855		850		5
SUBTOTAL	1,312		850		462
-L- MED 131+40.00 TO 160+00.00	521		571	50	
-L- MED 160+00.00 TO 165+00.00	178		130		48
-L- MED 165+00.00 TO 168+00.00	54		0		54
SUBTOTAL	753		701	50	102
-L- MED 168+00.00 TO 169+50.00	54		0		54
-L- MED 169+50.00 TO 194+75.00	395		2,563	2,168	
SUBTOTAL	449		2,563	2,168	54
-L- MED 206+50.00 TO 207+65.00	45		0		45
-L- MED 207+65.00 TO 234+00.00	558		83		475
SUBTOTAL	603		83		520
-L- MED 234+00.00 TO 235+15.00	27		4		23
-L- MED 235+15.00 TO 241+50.00	254		0		254
-L- MED 241+50.00 TO 242+65.00	50		0		50
-L- MED 242+65.00 TO 262+75.00	183		24		159
SUBTOTAL	514		28		486
<b>PHASE III TOTAL</b>	<b>4,691</b>		<b>8,562</b>	<b>5,495</b>	<b>1,624</b>
<b>PHASE I TOTAL</b>	<b>74,216</b>		<b>209,831</b>	<b>181,976</b>	<b>46,361</b>
<b>PHASE II TOTAL</b>	<b>24,634</b>		<b>25,572</b>	<b>8,833</b>	<b>7,895</b>
<b>GRAND SUBTOTAL</b>	<b>103,541</b>		<b>243,965</b>	<b>196,304</b>	<b>55,880</b>
LOSS DUE TO CLEARING AND GRUBBING	-13,500			13,500	
MATERIAL FOR SHOULDER CONSTRUCTION			11,712	11,712	
WASTE TO REPLACE BORROW PHASE I				-46,361	-46,361
WASTE TO REPLACE BORROW PHASE II				-7,895	-7,895
WASTE TO REPLACE BORROW PHASE III				-1,624	-1,624
EST. 5% TO REPLACE TOPSOIL ON BORROW PITS				8,282	
<b>GRAND TOTAL</b>	<b>90,041</b>		<b>255,677</b>	<b>173,918</b>	<b>0</b>
<b>SAY</b>	<b>91,000</b>			<b>174,000</b>	

EST. DDE = 1,520 CY  
 EST. UNDERCUT EXCAVATION = 3,950 CY  
 EST. PAVEMENT STRUCTURE VOLUME = 68,250 CY

**NOTE:** Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

5/9/2024





6/21/00

COMPUTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
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STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. R-5726  
 SHEET NO. 3B-4

**SUMMARY OF EXISTING  
 ASPHALT PAVEMENT REMOVAL**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-L-	10+00	18+46	LT	342.30
-L-	10+00	13+38	LT-MED	34.05
-L-	10+00	12+91	RT-MED	37.87
-L-	10+00	16+85	RT	319.96
-L-	18+46	19+24	LT	19.96
-L-	17+30	30+00	RT	6,159.79
-L-	30+00	36+09	RT	1,590.57
-L-	36+09	47+10	LT	1,492.46
-L-	36+09	39+89	RT	703.44
-L-	39+89	43+95	RT	665.49
-L-	43+95	47+10	RT	549.95
-L-	47+10	56+13	LT	334.11
-L-	47+10	56+13	RT	164.07
-L-	56+13	86+34	LT	3,290.06
-L-	56+13	65+56	RT	1,020.33
-L-	86+34	98+96	LT	782.95
-L-	98+96	111+30	LT	1,003.74
-L-	111+30	117+60	LT	299.50
-L-	117+60	126+12	LT	1,375.90
-L-	126+12	131+51	LT	153.64
-L-	126+12	131+51	RT	262.14
-L-	131+51	136+63	LT	222.00
-L-	136+63	143+69	LT	1,180.67
-L-	143+69	151+10	LT	1,503.45
-L-	151+10	156+33	LT	256.04
-L-	156+33	169+52	LT	1,020.76
-L-	169+52	194+75	LT	2,374.61
-L-	194+75	212+85	LT	1,290.83
-L-	212+85	226+38	LT	1,291.70
-L-	226+38	234+00	LT	381.78
-L-	234+00	248+63	LT	664.54
-L-	248+63	262+75	LT	1,202.99
Y1	16+70	17+48	LT	14.26
Y1	16+70	17+48	RT	26.59
Y3	13+10	14+88	LT	30.81
Y3	13+10	14+88	RT	30.42
Y4	10+76	18+25	LT	1.84
Y4	10+76	18+25	RT	62.28
Y8A	11+21	11+58	CL	97.71
Y11	10+29	11+25	LT	27.29
Y11	10+29	11+25	RT	29.19
Y12	12+41	12+90	LT	6.73
Y12	12+41	12+90	RT	9.53
Y14	10+00	15+90	CL	126.54
Y16	10+00	10+25	CL	6.60
Y18	11+30	12+60	RT	643.37
Y19	10+00	10+22	LT	57.53
Y21	10+46	12+50	LT	25.51
Y21	10+46	12+50	RT	19.06
<b>TEMPORARY PAVEMENT REMOVAL</b>				
-L-	63+14.32	72+88.31	LT	852.43
-L-	104+12.75	111+30.00	RT	410.63
-L-	117+60.00	125+87.42	RT	454.70
-L-	136+62.58	151+10.00	RT	842.44
-L-	156+32.85	159+45.22	RT	164.46
-L-	191+24.83	194+75.00	RT	194.63
-L-	195+55.00	197+39.09	RT	135.10
-L-	249+82.36	256+27+75	RT	320.94
TOTAL:				36,582.24
SAY:				36,590

**SUMMARY OF  
 CHAIN LINK FENCE, 72" FABRIC**

STATION TO STATION	LT or RT	A FABRIC (LF)	B END BRACE	C CORNER BRACE	D LINE BRACE	E 4" POSTS (EA)	F 5" POSTS (EA)	
-L- 118+40.00 TO 121+80.00	RT	957'	2	4	10	82	16	
-L- 213+85.00 TO 216+05.21	RT	735'	2	4	10	63	16	
-L- 42+23.00 TO 43+43.85	LT	121'	2			10	2	
TOTAL:		1813'				155	34	
SAY:		1850'				155	34	
DOUBLE GATES, 72" HIGH, 8' WIDE, 16' OPENING							SAY:	2
METAL GATE POST FOR 72" CHAIN LINK FENCE, DOUBLE GATE							SAY:	4

NOTE: LT or RT INDICATES LEFT OR RIGHT OF THE MAIN LINE.

**SHOULDER BERM GUTTER SUMMARY**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH
-L-	183+25.00	194+00.00	RT	1,075.0'
-L-	186+00.00	192+25.00	LT	625.0'
TOTAL:				1,700.0'
SAY:				1,700'

**EXPRESSWAY GUTTER SUMMARY**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH
-L-	196+00.00	200+50.00	LT	450.00'
-Y8A-	10+00.00	10+73.46	LT	100.00'
TOTAL:				550.00'
SAY:				550'



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COMPUTED BY: CGM DATE: 08/26/2024  
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PROJECT NO. R-5726 SHEET NO. 3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class III, IV, V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.

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PROJECT NO. SHEET NO.  
R-5726 3D-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class (III, IV, V), Quantities for Drainage Structures, Frame, Grates, and Hood, and Remarks. Includes a SHEET TOTALS row at the bottom.



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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.  
R-5726 3D-3

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class III, IV, V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Remarks. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing materials like C.A.A. CORRUGATED ALUMINIUM ALLOY, C.B. CATCH BASIN, C.S. CORRUGATED STEEL, D.I. DROP INLET, G.D.I. GRATED DROP INLET, H.D.P.E. HIGH DENSITY POLYETHYLENE, J.B. JUNCTION BOX, M.H. MANHOLE, N.S. NARROW SLOT, P.V.C. POLYVINYL CHLORIDE, R.C. REINFORCED CONCRETE, T.B.D.I. TRAFFIC BEARING DROP INLET, T.B.J.B. TRAFFIC BEARING JUNCTION BOX, W.S. WIDE SLOT.





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PROJECT NO. SHEET NO.  
R-5726 3D-5

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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See "Standard Specifications For Roads and Structures, Section 300-5".

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class III, IV, V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.

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PROJECT NO. R-5726 SHEET NO. 3D-6

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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See "Standard Specifications For Roads and Structures, Section 300-5".

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class (III, IV, V), Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.



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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PROJECT NO. R-5726 SHEET NO. 3D-7

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

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class (III, IV, V), Quantities for Drainage Structures, Frame/Grates/Hood, Concrete/Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.

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COMPUTED BY: CGM DATE: 08/26/2024  
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PROJECT NO. SHEET NO.  
R-5726 3D-8

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

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

Table with columns: LINE & STATION, SIZE, THICKNESS OR GAUGE, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, ENDWALLS, REINFORCED ENDWALLS, MASONRY, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRATE TYPE, and REMARKS. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS  
C.A.A. CORRUGATED ALUMINIUM ALLOY  
C.B. CATCH BASIN  
C.S. CORRUGATED STEEL  
D.I. DROP INLET  
G.D.I. GRATED DROP INLET  
H.D.P.E. HIGH DENSITY POLYETHYLENE  
J.B. JUNCTION BOX  
M.H. MANHOLE  
N.S. NARROW SLOT  
P.V.C. POLYVINYL CHLORIDE  
R.C. REINFORCED CONCRETE  
T.B.D.I. TRAFFIC BEARING DROP INLET  
T.B.J.B. TRAFFIC BEARING JUNCTION BOX  
W.S. WIDE SLOT

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COMPUTED BY: CGM DATE: 08/26/2024  
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PROJECT NO. SHEET NO.  
R-5726 3D-9

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

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

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R.C. Pipe Class (III, IV, V), Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.



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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PROJECT NO. R-5726 SHEET NO. 3D-10

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

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

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, ENDWALLS, REINFORCED ENDWALLS, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRATE TYPE, and REMARKS. Includes a SHEET TOTALS row at the bottom.

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COMPUTED BY: CGM DATE: 08/26/2024  
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PROJECT NO. SHEET NO.  
R-5726 3D-11

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

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

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, ENDWALLS, REINFORCED ENDWALLS, MASONRY, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRATE TYPE, and REMARKS. Includes a SHEET TOTALS row at the bottom.

ABBREVIATIONS table listing materials and their abbreviations: C.A.A. CORRUGATED ALUMINIUM ALLOY, C.B. CATCH BASIN, C.S. CORRUGATED STEEL, D.I. DROP INLET, G.D.I. GRATED DROP INLET, H.D.P.E. HIGH DENSITY POLYETHYLENE, J.B. JUNCTION BOX, M.H. MANHOLE, N.S. NARROW SLOT, P.V.C. POLYVINYL CHLORIDE, R.C. REINFORCED CONCRETE, T.B.D.I. TRAFFIC BEARING DROP INLET, T.B.J.B. TRAFFIC BEARING JUNCTION BOX, W.S. WIDE SLOT.





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COMPUTED BY: CGM DATE: 08/26/2024  
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PROJECT NO. SHEET NO.  
R-5726 3D-13

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54 INCHES & OVER)

Table with columns: LINE & STATION, SIZE, THICKNESS OR GAUGE, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, R. C. PIPE CLASS V (12-84), ENDWALLS, REINFORCED ENDWALLS, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes summary rows for SHEET TOTALS and PROJECT TOTALS.

ABBREVIATIONS  
C.A.A. CORRUGATED ALUMINIUM ALLOY  
C.B. CATCH BASIN  
C.S. CORRUGATED STEEL  
D.I. DROP INLET  
G.D.I. GRATED DROP INLET  
H.D.P.E. HIGH DENSITY POLYETHYLENE  
J.B. JUNCTION BOX  
M.H. MANHOLE  
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T.B.D.I. TRAFFIC BEARING DROP INLET  
T.B.J.B. TRAFFIC BEARING JUNCTION BOX  
W.S. WIDE SLOT

COMPUTED BY: SEM DATE: 4/24/2024  
 CHECKED BY: SSL DATE: 4/24/2024

(2-3-23)

PROJECT NO.  
R-5726

SHEET NO.  
3G-1

**STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS**

**SUMMARY OF SUBSURFACE DRAINAGE**

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD (6")	375
				<b>TOTAL LF:</b>	375

\*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
CONTINGENCY			ASU(1)	12	300	590	900		
					<b>TOTAL CY/TONS/SY:</b>	300	590**	900**	0

\*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)  
 \*AST = Aggregate Stabilization  
 \*\*Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for 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 ROCK PLATING**

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
L	3:1	186+50	3:1	188+50	LT	1		1000
L	3:1	196+50	3:1	199+50	LT	3		500
							<b>TOTAL SY:</b>	1500

\*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

**SUMMARY OF SETTLEMENT GAUGES**

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	-L- 185+50	60	RT
2	-L- 188+00	60	RT
3	-L- 190+50	70	RT
4	-L- 192+50	70	RT
<b>TOTAL GAUGES (EACH):</b>			4

**SUMMARY OF EMBANKMENT  
 WAITING PERIODS**

LINE	Station	Station	MONTHS
L	184+50	189+50	1
L	190+50	194+00	1

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

## PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAME	PHASE NO.
1	4	FRED B. MONROE, JR AND WIFE, CAROL H. MONROE (NO CLAIM)	4
1A	4	BUREAU ENTERPRISES, LLC (NO CLAIM)	4
2	4	JEFFERY D. AND CHRISTINE M. KERR (NO CLAIM)	4
3	4	Mc, B, Mc, LLC	4
4	4	NCDOT	4
5	4, 5, 8, 9, 10, 11, 12, 13, 14, 15, 21, 22, 23, 24	ABERDEEN CAROLINA & WESTERN RAILWAY (NO CLAIM)	1,2,3,4,5
6		UNASSIGNED	4
7	4,5	JDN GROUP, LLC	4
8	4,5	JR SQUARE, LLC	4
9	5	JDN GROUP, LLC	4
10	5	5364 HIGHWAY 211, LLC	4
11	5	WEST END UNITED METHODIST CHURCH	4
12	5	MARK EARL KARSHNER CLAYTON EARL KARSHNER	4
13	5	MCNEIL OIL CO.	4
14	5	JERRY D. WICKER AND WIFE, HARRIET D. WICKER	4
15	5,24	WEST END UNITED METHODIST CHURCH	4
16	5	LONNIE R. MATTHEWS	4
17	5	LONNIE R. MATTHEWS	4
18	5,24	SOUTHERN GOLF AND LAND, LLC	4
19	5,24	SOUTHERN GOLF AND LAND, LLC	4
20		UNASSIGNED	
21		UNASSIGNED	
22	5	PINE RIDGE PROPERTIES, LLC	4
23	5	NC DEPARTMENT OF TRANSPORTATION	4
24	5	MICHAEL S. NARDO	4
25	5,6	MOORE COUNTY	4
26	6	JAMES RICHARD VON CANON AND WIFE, EDNA M. VON CANON	4
27	6	JENNEFER CLARK	4
28	6	EDNA M. VON CANON	4

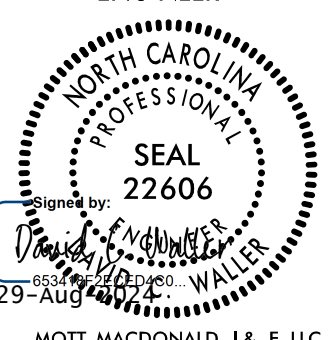
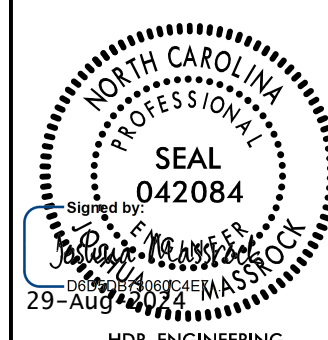

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAME	PHASE NO.
29	6	JOHN A. CHISHOLM AND WIFE, RACHEL E. CHISHOLM	4
30	6	SANDHILLS PRIME REAL ESTATE, LLC	4
31	6	NIC'S PIC KWIK. INC	4
32	6	FIRST BAPTIST CHURCH OF WEST END, INC	4
33	6	JAMES R. KRKPATRICK TRUSTEES	4
34	6	BOLES FAMILY, LLC	4
35	6,7	JOHNSON IMPROVEMENT CO.	4
36	6	FIRST BAPTIST CHURCH OF WEST END, INC	4
37		UNASSIGNED	
38	6,7	JESSE JAMES SOUTHARD TABATHA SOUTHARD ALDRIDGE	4
39		UNASSIGNED	
40	7	USPS	4
41	7	BILLY RAY BOWYER	4
42	7	IVORY RICHARDSON	3
43	7	SUSAN McCASKILL MORGAN ET, ALS	3
44	7	TIMOTHY COOPER	3
45	7	WEST END CEMETERY ASSOCIATION	3
46	7	JAMES R. KIRKPATRICK FAMILY REVOCABLE TRUST	3
47	7	WEST END CEMETERY ASSOCIATION	3
48	7	JR SQUARE, LLC	3
49	7	SERIOUS STORAGE, LLC	3
50	7	NC DEPARTMENT OF TRANSPORTATION	3
51A		Eliminated	
51	8	JOHNSON IMPROVEMENT CO	3
52	7	SILVER RUN FARM, LLC	3
53	7,8	JAMES DAVID COUGHENOUR	3
53A	7,8	UN- OPENED STREET	3
53B	7,8	CALVIN LEE DOWNS AND WIFE GLORIA H. DOWNS	3
54	8	JOHNSON IMPROVEMENT CO	3
54A	8	JACQUELINE COUGHENOUR	3
55	8,9	SILVER RUN FARM, LLC	3
56		UNASSIGNED	

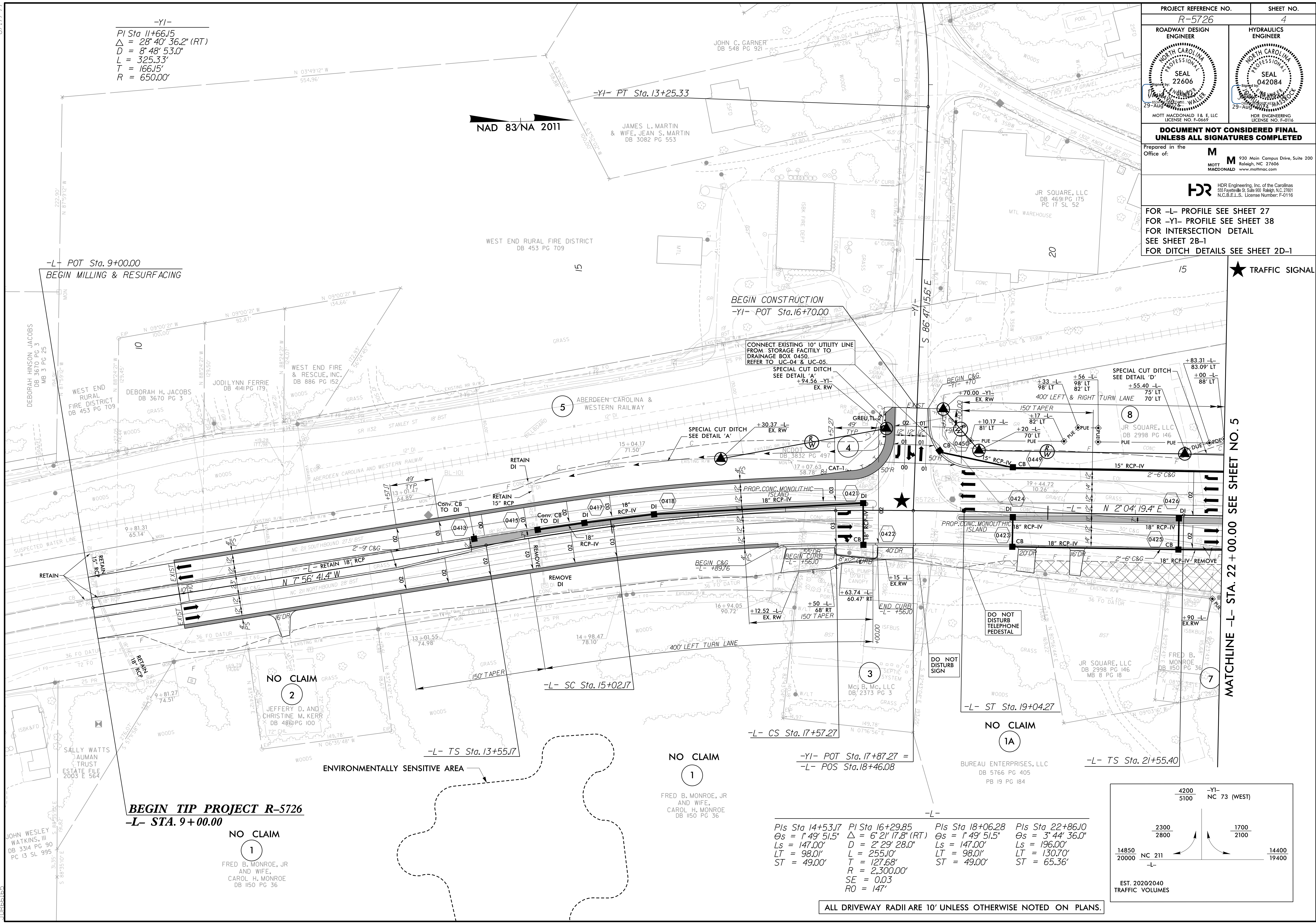
PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAME	PHASE NO.
57	9	ZACHARY S. WILLIAMS AND WIFE REBECCA M. WILLIAMS	2
57A	9,10	JEANNE M. WILLIAMS	2
58	10	FRED B. MONROE AND WIFE, CAROL H. MONROE AND DOUGLASS H. MONROE	2
59	10,25	CLAUDE SMITH ENTERPRISES, INC.	2
60	10,11, 10,25	MOORE COUNTY BOARD OF EDUCATION	2
61	12,12A	CEDAR GROVE BAPTIST CHURCH	2
62		UNASSIGNED	
63		UNASSIGNED	
64	12,12A	CLARENCE GILLESPIE HEIRS	2
65	12,12A	THELMA CRUTCHFIELD	2
66	12,12A	SEVEN LAKES HARDWARE	2
67	12,13	SEVEN LAKES HARDWARE	2
68	13	CLEMMONS SUBS, INC.	2
69	13	BRIAN K. NEALAND WIFE, KAREN P. NEAL	5
70	13,26	CAT HOLDINGS, LLC	5
71	13	ELAINE YOW GIRGIS AND EDWINA LANE YOW	5
71A	13	NC DEPARTMENT OF TRANSPORTATION	5
71B	13	NC DEPARTMENT OF TRANSPORTATION	5
72		UNASSIGNED	
73	13	FIRST BANK	5
74	13	VENTURA BERBER HOLDINGS, LLC	5
75	13	ELAIN YOW GIRGIS	5
76	13	JOYCE RUSSELL & OTHERS	5
77	13	JOYCE RUSSELL & OTHERS	5
78	13,14	CS DAVIS, JR., MOORE COUNTY, LLC	5
79	14	BERKOSKI SOUTH, LLC	5
80		UNASSIGNED	
81	14	DOLGENCORP, INC.	5
82	14	McDONALD'S REAL ESTATE COMPANY	5
83	14	4145 HWY 211, LLC	1







PROJECT REFERENCE NO. <b>R-5726</b>		SHEET NO. <b>4</b>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of: <b>M</b> MOTT MACDONALD I & E, LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com			
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			
FOR -L- PROFILE SEE SHEET 27 FOR -YI- PROFILE SEE SHEET 38 FOR INTERSECTION DETAIL SEE SHEET 2B-1 FOR DITCH DETAILS SEE SHEET 2D-1			



-YI-  
 PI Sta 11+66.15  
 $\Delta = 28^\circ 40' 36.2''$  (RT)  
 $D = 8^\circ 48' 53.0''$   
 $L = 325.33'$   
 $T = 166.15'$   
 $R = 650.00'$

NAD 83/NA 2011

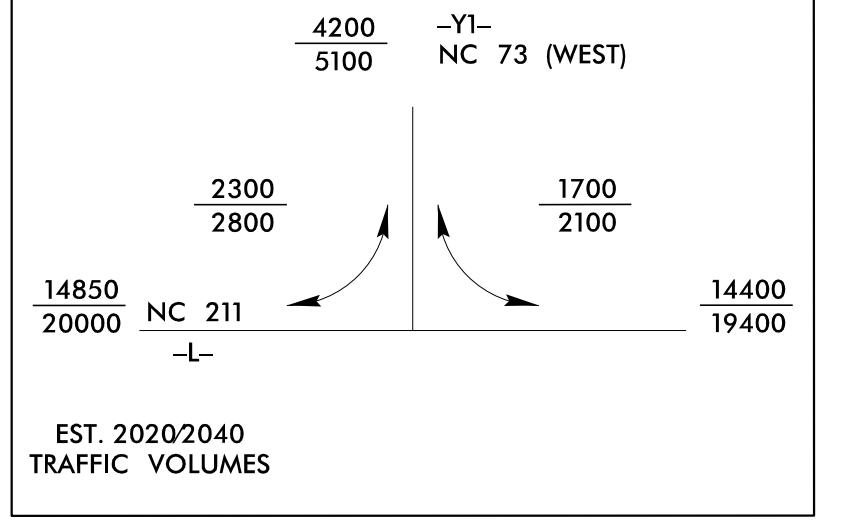
-L- POT Sta. 9+00.00  
 BEGIN MILLING & RESURFACING

BEGIN CONSTRUCTION  
 -YI- POT Sta. 16+70.00

**BEGIN TIP PROJECT R-5726**  
 -L- STA. 9+00.00

NO CLAIM  
 1  
 FRED B. MONROE, JR  
 AND WIFE,  
 CAROL H. MONROE  
 DB 150 PG 36

Pls Sta 14+53.17 $\Theta s = 1^\circ 49' 51.5''$ $Ls = 147.00'$ $LT = 98.01'$ $ST = 49.00'$	Pl Sta 16+29.85 $\Delta = 6^\circ 21' 17.8''$ (RT) $D = 2^\circ 29' 28.0''$ $L = 255.10'$ $T = 127.68'$ $R = 2,300.00'$ $SE = 0.03$ $RO = 147'$	Pls Sta 18+06.28 $\Theta s = 1^\circ 49' 51.5''$ $Ls = 147.00'$ $LT = 98.01'$ $ST = 49.00'$	Pls Sta 22+86.10 $\Theta s = 3^\circ 44' 36.0''$ $Ls = 196.00'$ $LT = 130.70'$ $ST = 65.36'$
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ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS.


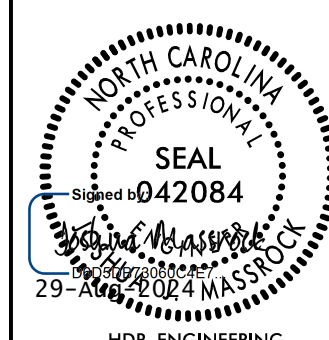
MATCHLINE -L- STA. 22 + 00.00 SEE SHEET NO. 5

★ TRAFFIC SIGNAL

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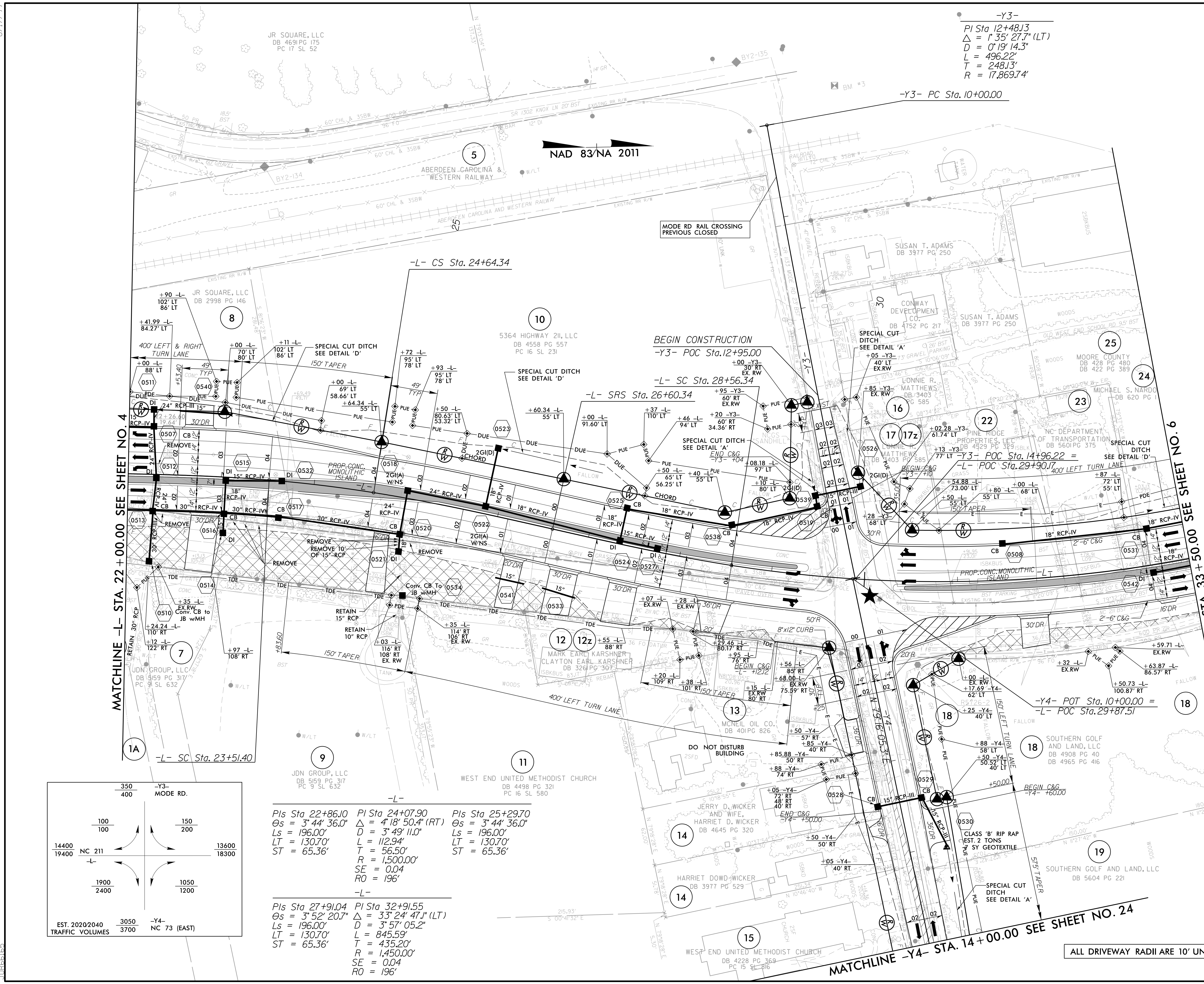


8/17/99

PROJECT REFERENCE NO. <b>R-5726</b>		SHEET NO. <b>5</b>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
<p><b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b></p>			
<p>Prepared in the Office of: <b>M M</b> 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 MOTT MACDONALD www.mottmac.com</p>			
<p><b>HDR</b> HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116</p>			

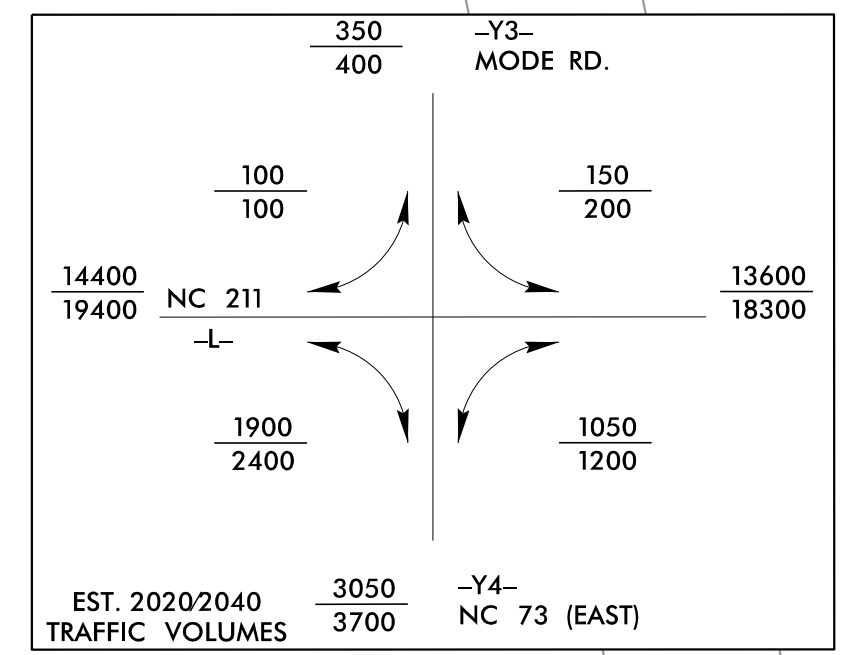
FOR -L- PROFILE SEE SHEET 27  
 FOR -Y3- PROFILE SEE SHEET 38  
 FOR -Y4- PROFILE SEE SHEET 39  
 FOR INTERSECTION DETAIL SEE SHEET 2B-1  
 FOR DITCH DETAILS SEE SHEET 2D-1

★ TRAFFIC SIGNAL



MATCHLINE -L- STA. 22+00.00 SEE SHEET NO. 4

MATCHLINE -L- STA. 33+50.00 SEE SHEET NO. 6



<p><b>-L-</b></p> <p>PIs Sta 22+86.10  <math>\Theta_s = 3^\circ 44' 36.0''</math>  <math>L_s = 196.00'</math>  <math>LT = 130.70'</math>  <math>ST = 65.36'</math></p>	<p>PIs Sta 24+07.90  <math>\Theta_s = 4^\circ 18' 50.4'' (RT)</math>  <math>D = 3^\circ 49' 11.0''</math>  <math>L = 112.94'</math>  <math>T = 56.50'</math>  <math>R = 1,500.00'</math>  <math>SE = 0.04</math>  <math>RO = 196'</math></p>	<p>PIs Sta 25+29.70  <math>\Theta_s = 3^\circ 44' 36.0''</math>  <math>L_s = 196.00'</math>  <math>LT = 130.70'</math>  <math>ST = 65.36'</math></p>
<p><b>-L-</b></p> <p>PIs Sta 27+91.04  <math>\Theta_s = 3^\circ 52' 20.7''</math>  <math>L_s = 196.00'</math>  <math>LT = 130.70'</math>  <math>ST = 65.36'</math></p>		
<p>PIs Sta 32+91.55  <math>\Delta = 33^\circ 24' 47.1'' (LT)</math>  <math>D = 3^\circ 57' 05.2''</math>  <math>L = 845.59'</math>  <math>T = 435.20'</math>  <math>R = 1,450.00'</math>  <math>SE = 0.04</math>  <math>RO = 196'</math></p>		

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS.

8/27/2024 R:\Roadway\Proj\5726\_rdy\_psh05.dgn



8/17/99

PROJECT REFERENCE NO. <b>R-5726</b>		SHEET NO. <b>6</b>	
ROADWAY DESIGN ENGINEER SEAL 22606 MOTT MACDONALD & E. LLC LICENSE NO. F-0669		HYDRAULICS ENGINEER SEAL 042084 MOTT MACDONALD & E. LLC LICENSE NO. F-0116	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: <b>M</b> MOTT MACDONALD & E. LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com			
<b>HDR</b> HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.E.L.S. License Number: F-0116			

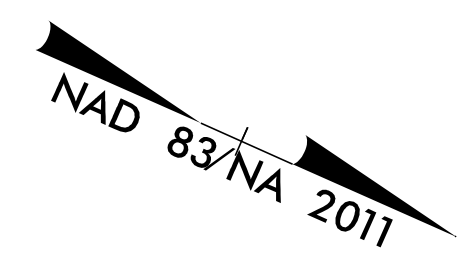
FOR -L- PROFILE SEE SHEET 28  
 FOR -Y8- PROFILE SEE SHEET 39  
 FOR -Y9- PROFILE SEE SHEET 40  
 FOR -Y10- PROFILE SEE SHEET 40  
 FOR DITCH DETAILS SEE SHEET 2D-1



-L-  
 PI Sta 32+91.55  
 $\Delta = 33^\circ 24' 47.1''$  (LT)  
 $D = 3^\circ 57' 05.2''$   
 $L = 845.59'$   
 $T = 435.20'$   
 $R = 1,450.00'$   
 $SE = 0.04$   
 $RO = 196'$

-Y8A-  
 PI Sta 10+54.71  
 $\Delta = 11^\circ 53' 55.8''$  (RT)  
 $D = 10^\circ 54' 48.5''$   
 $L = 109.03'$   
 $T = 54.71'$   
 $R = 525.00'$

-Y10-  
 PI Sta 11+91.82  
 $\Delta = 0^\circ 57' 09.4''$  (RT)  
 $D = 0^\circ 14' 53.9''$   
 $L = 383.64'$   
 $T = 191.82'$   
 $R = 2,307.448'$



MATCHLINE -L- STA. 33 +50.00 SEE SHEET NO. 5

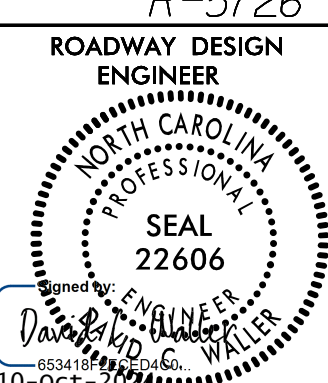
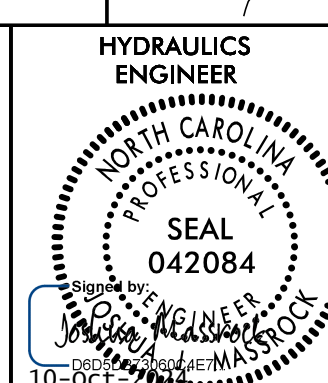

MATCHLINE -L- STA. 46 +50.00 SEE SHEET NO. 7

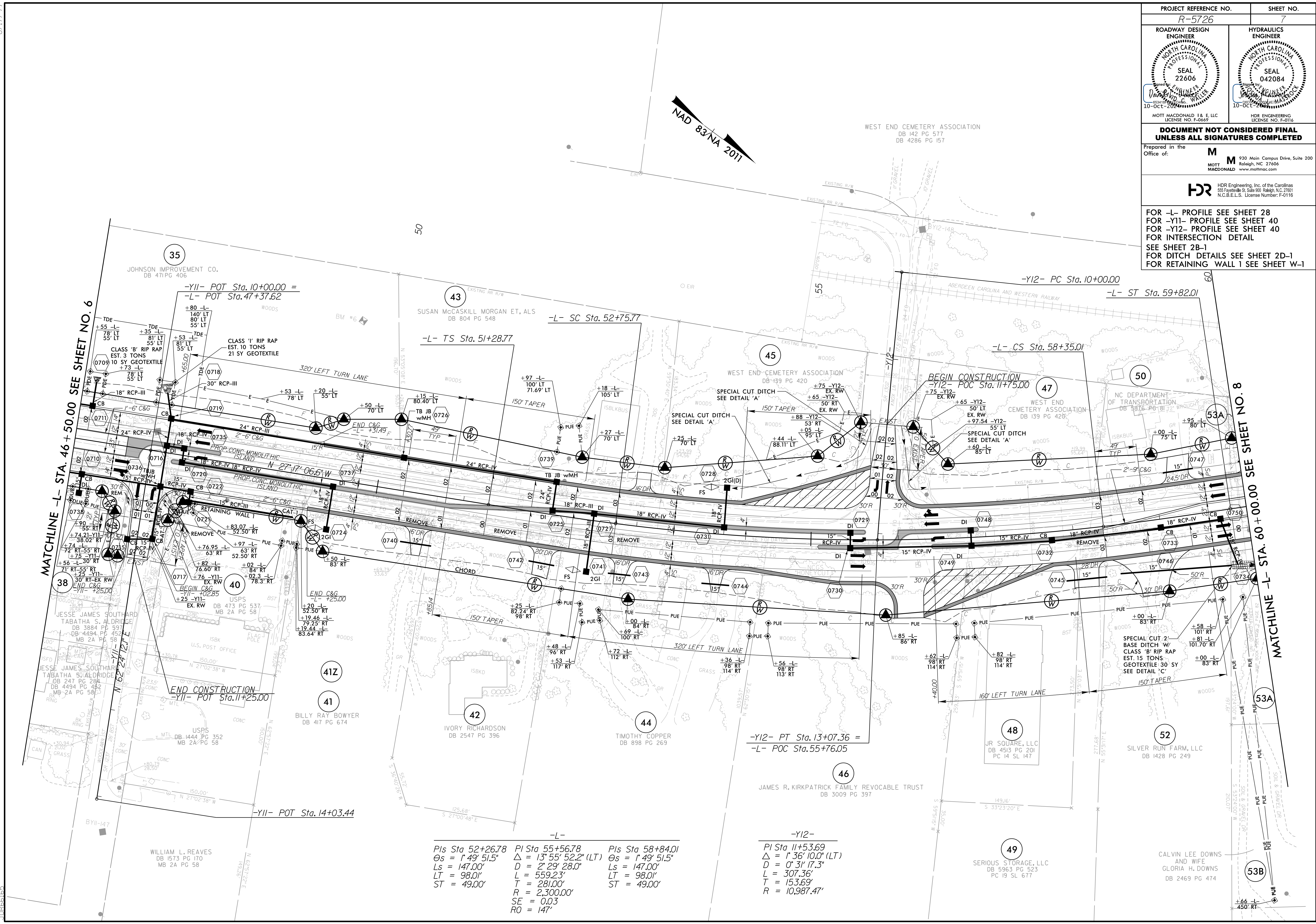
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS.

7/29/2024  
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 W:\78449



8/17/99

PROJECT REFERENCE NO. <b>R-5726</b>		SHEET NO. <b>7</b>	
ROADWAY DESIGN ENGINEER MOTT MACDONALD & E. LLC LICENSE NO. F-0669		HYDRAULICS ENGINEER MOTT MACDONALD & E. LLC LICENSE NO. F-0116	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: <b>M</b> MOTT MACDONALD & E. LLC 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com			
			
FOR -L- PROFILE SEE SHEET 28 FOR -Y11- PROFILE SEE SHEET 40 FOR -Y12- PROFILE SEE SHEET 40 FOR INTERSECTION DETAIL SEE SHEET 2B-1 FOR DITCH DETAILS SEE SHEET 2D-1 FOR RETAINING WALL 1 SEE SHEET W-1			



-L-			-Y12-		
Pls Sta 52+26.78	PI Sta 55+56.78	Pls Sta 58+84.01	PI Sta 11+53.69		
$\Delta s = 1' 49'' 51.5''$	$\Delta = 13' 55'' 52.2''$ (LT)	$\Delta s = 1' 49'' 51.5''$	$\Delta = 1' 36'' 10.0''$ (LT)		
$Ls = 147.00'$	$D = 2' 29'' 28.0''$	$Ls = 147.00'$	$D = 0' 31'' 17.3''$		
$LT = 98.01'$	$L = 559.23'$	$LT = 98.01'$	$L = 307.36'$		
$ST = 49.00'$	$T = 281.00'$	$ST = 49.00'$	$T = 153.69'$		
	$R = 2,300.00'$		$R = 10,987.47'$		
	$SE = 0.03$				
	$RO = 147'$				

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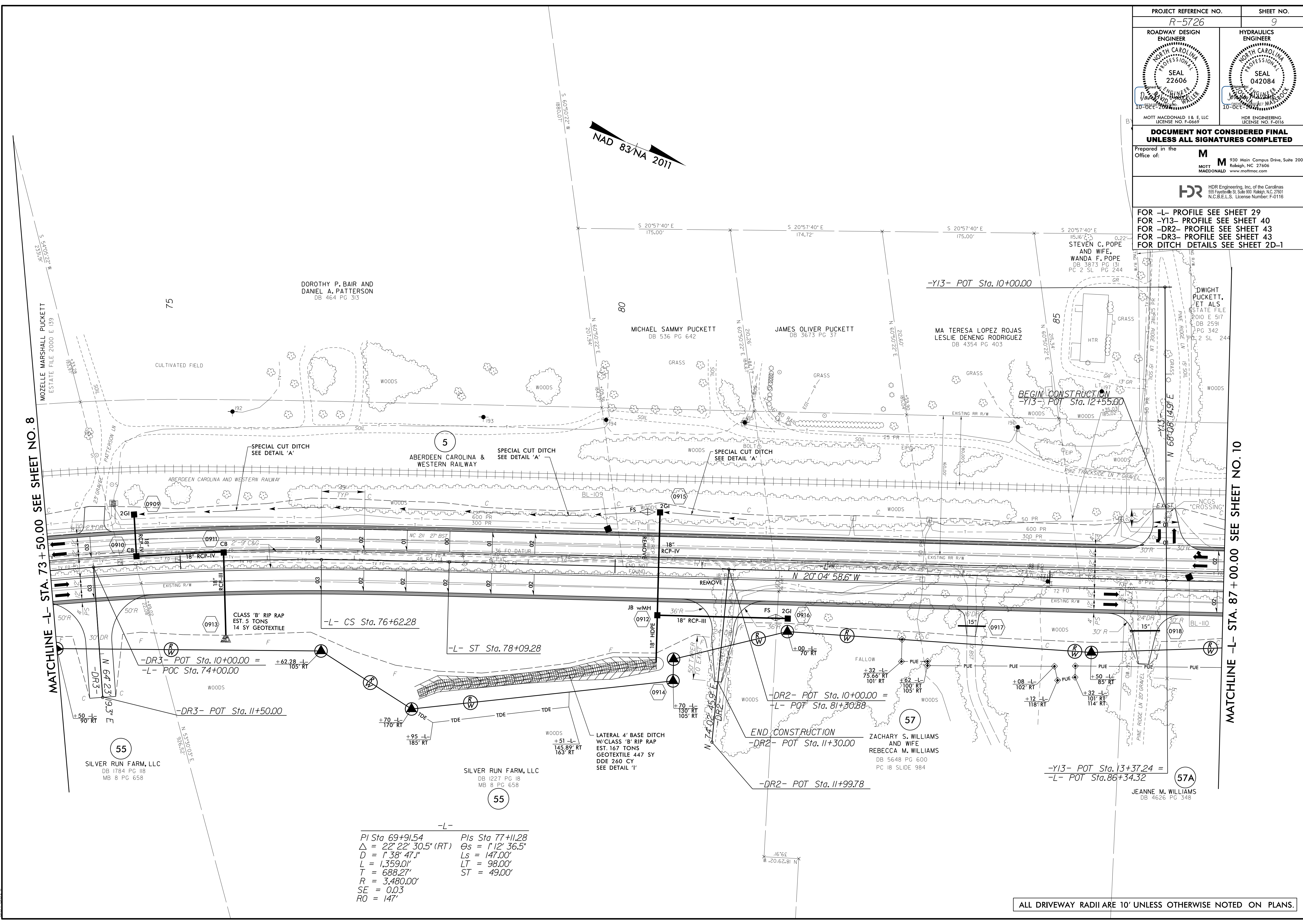






PROJECT REFERENCE NO. <b>R-5726</b>	SHEET NO. <b>9</b>
ROADWAY DESIGN ENGINEER <b>WANDA F. POPE</b> NORTH CAROLINA PROFESSIONAL SEAL 22606 10-DEC-2014	HYDRAULICS ENGINEER <b>JEANNE M. WILLIAMS</b> NORTH CAROLINA PROFESSIONAL SEAL 042084 10-OCT-2014
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669	
HDR ENGINEERING, Inc. of the Carolinas 555 Fayetteville St., Suite 900, Raleigh, NC 27601 N.C.B.E.L.S. License Number: F-0116	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of: <b>MOTT MACDONALD</b>	
930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com	

FOR -L- PROFILE SEE SHEET 29  
 FOR -Y13- PROFILE SEE SHEET 40  
 FOR -DR2- PROFILE SEE SHEET 43  
 FOR -DR3- PROFILE SEE SHEET 43  
 FOR DITCH DETAILS SEE SHEET 2D-1



MATCHLINE -L- STA. 73 + 50.00 SEE SHEET NO. 8

MATCHLINE -L- STA. 87 + 00.00 SEE SHEET NO. 10

-L-  
 PI Sta 69+91.54      Pls Sta 77+11.28  
 $\Delta = 22^\circ 22' 30.5''$  (RT)       $\Theta_s = 1^\circ 12' 36.5''$   
 $D = 1^\circ 38' 47''$        $L_s = 147.00'$   
 $L = 1,359.01'$        $LT = 98.00'$   
 $T = 688.27'$        $ST = 49.00'$   
 $R = 3,480.00'$   
 $SE = 0.03$   
 $RO = 147'$

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS.



PROJECT REFERENCE NO. <b>R-5726</b>		SHEET NO. <b>10</b>	
ROADWAY DESIGN ENGINEER <b>MOTT MACDONALD</b> SEAL 22606 13-Aug-2014		HYDRAULICS ENGINEER <b>MOTT MACDONALD</b> SEAL 042084 13-Aug-2014	
<p><b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED</p> <p>Prepared in the Office of: <b>M</b> MOTT MACDONALD</p> <p><b>HDR</b> HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116</p>			

FOR -L- PROFILE SEE SHEET 30  
FOR -Y14- PROFILE SEE SHEET 41  
FOR INTERSECTION DETAIL SEE SHEET 2B-2  
FOR DITCH DETAILS SEE SHEET 2D-1



-L-

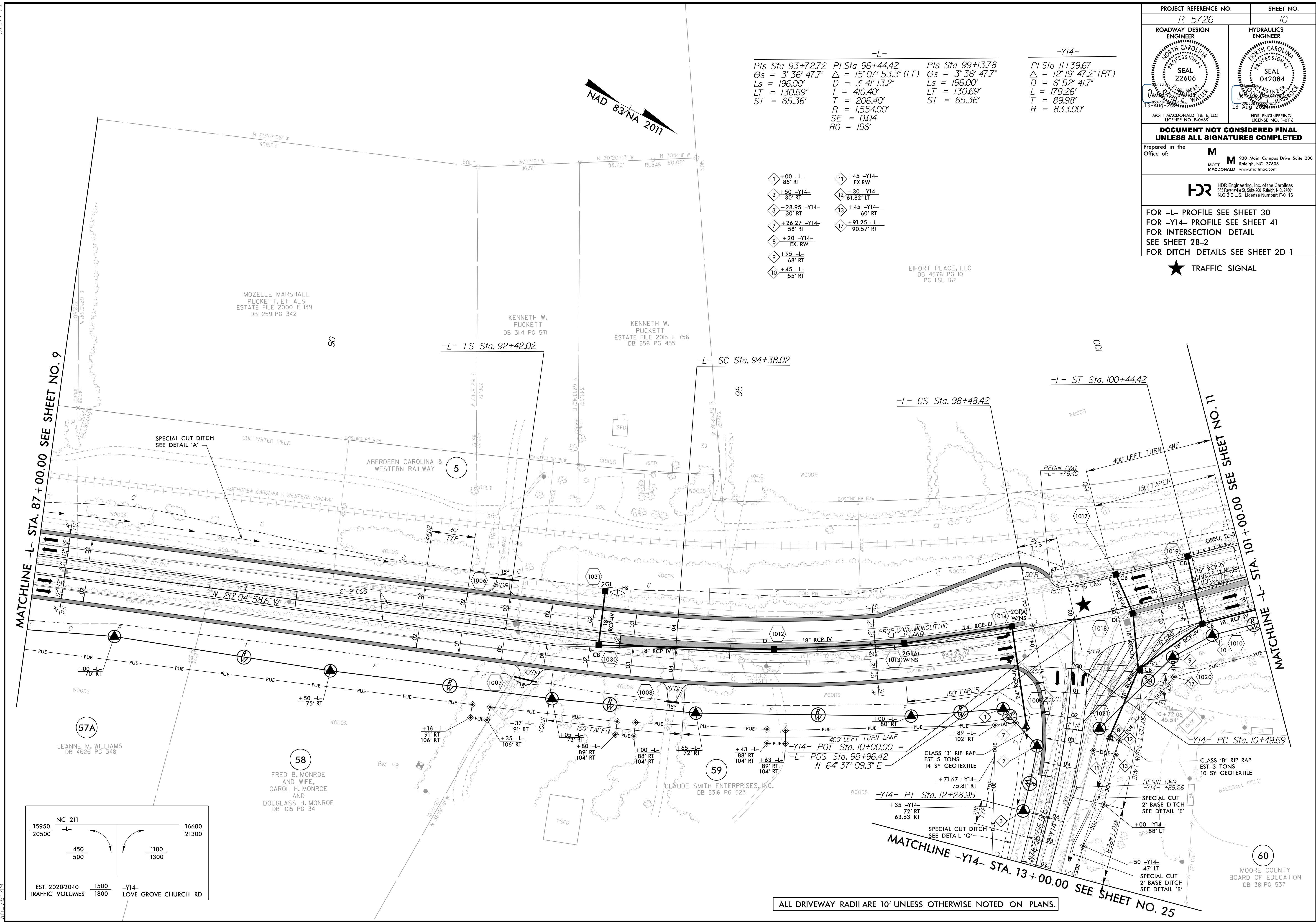
PIs Sta 93+72.72 θs = 3° 36' 47.7" Ls = 196.00' LT = 130.69' ST = 65.36'	PI Sta 96+44.42 Δ = 15° 07' 53.3" (LT) D = 3° 41' 13.2" L = 410.40' T = 206.40' R = 1,554.00' SE = 0.04 RO = 196'	PIs Sta 99+13.78 θs = 3° 36' 47.7" Ls = 196.00' LT = 130.69' ST = 65.36'
--	--	--

-Y14-

PI Sta 11+39.67 Δ = 12° 19' 47.2" (RT) D = 6° 52' 41.7" L = 179.26' T = 89.98' R = 833.00'
---

- |                       |                         |
|-----------------------|-------------------------|
| 1 +00 -L- 85' RT      | 11 +45 -Y14- EX. RW     |
| 2 +50 -Y14- 30' RT    | 12 +30 -Y14- 61.82' LT  |
| 3 +28.95 -Y14- 30' RT | 13 +45 -Y14- 60' RT     |
| 7 +26.27 -Y14- 58' RT | 17 +91.25 -L- 90.57' RT |
| 8 +20 -Y14- EX. RW    |                         |
| 9 +95 -L- 68' RT      |                         |
| 10 +45 -L- 55' RT     |                         |

EIFORT PLACE, LLC  
DB 4576 PG 10  
PC 1 SL 162



15950	NC 211	16600
20500	-L-	21300
450		1100
500		1300
EST. 2020/2040	1500	-Y14-
TRAFFIC VOLUMES	1800	LOVE GROVE CHURCH RD

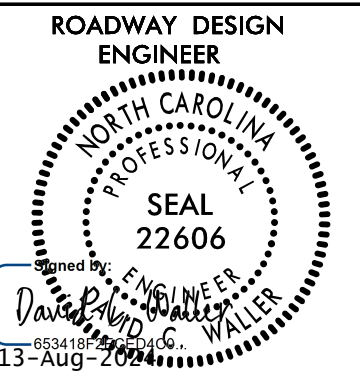
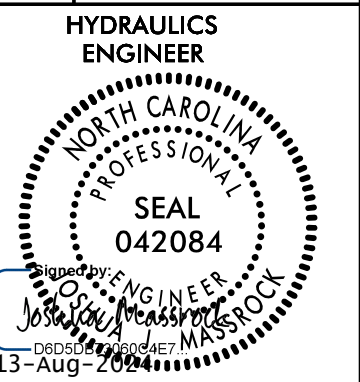

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS.

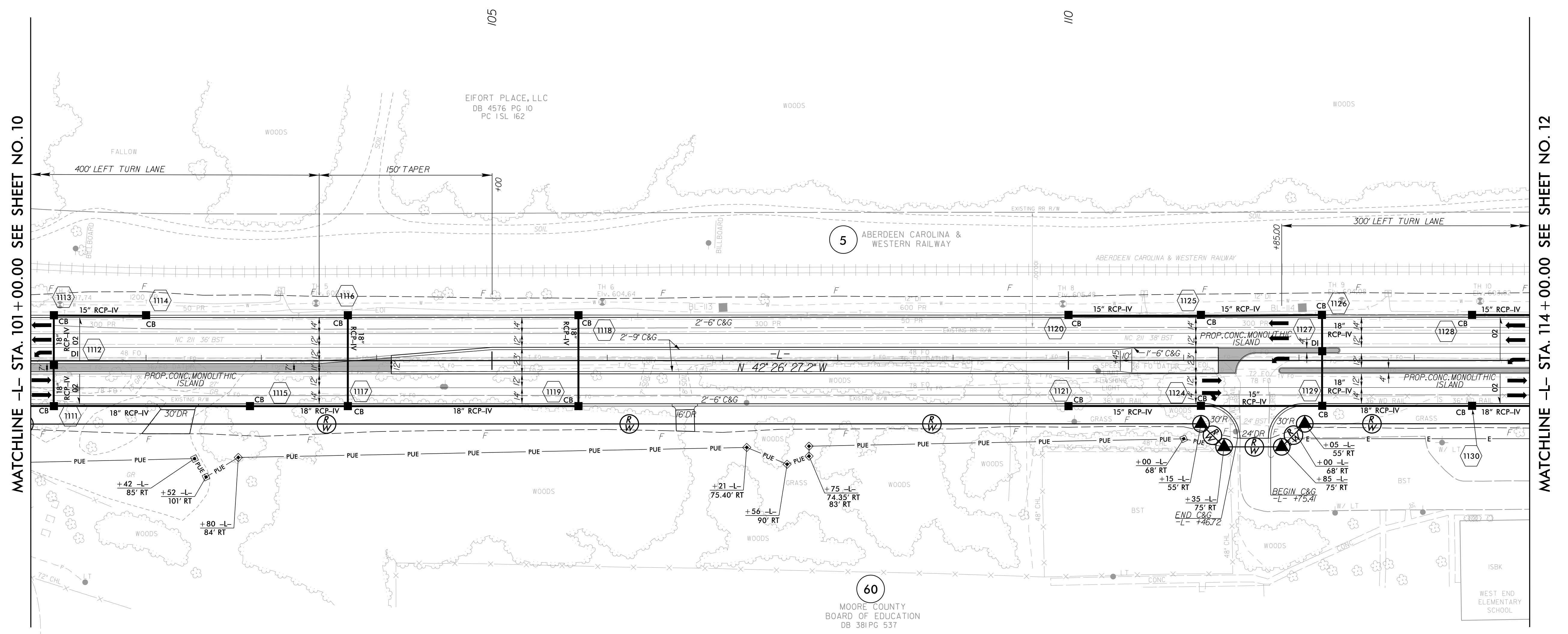
MATCHLINE -Y14- STA. 13+00.00 SEE SHEET NO. 25

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8/17/99

PROJECT REFERENCE NO. <i>R-5726</i>		SHEET NO. <i>11</i>	
ROADWAY DESIGN ENGINEER  MOTT MACDONALD I & E, LLC LICENSE NO. F-0669 13-Aug-2011		HYDRAULICS ENGINEER  HDR ENGINEERING LICENSE NO. F-0116 13-Aug-2011	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
Prepared in the Office of:		<b>M</b> MOTT MACDONALD 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 www.mottmac.com	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.E.L.S. License Number: F-0116			
FOR -L- PROFILE SEE SHEET 30 FOR INTERSECTION DETAIL SEE SHEET 2B-2 FOR DITCH DETAILS SEE SHEET 2D-1			



7/29/2024  
 R:\Projects\5726\Proj\5726\_rdy\_psh11.dgn  
 V:\784476

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS.