

09.08/2019

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL-0008I	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49367.1.9	NA	PE	
49367.2.10	NA	ROW	
49367.2.27	NA	UTILITIES	
49367.3.9	NA	CONSTRUCTION	

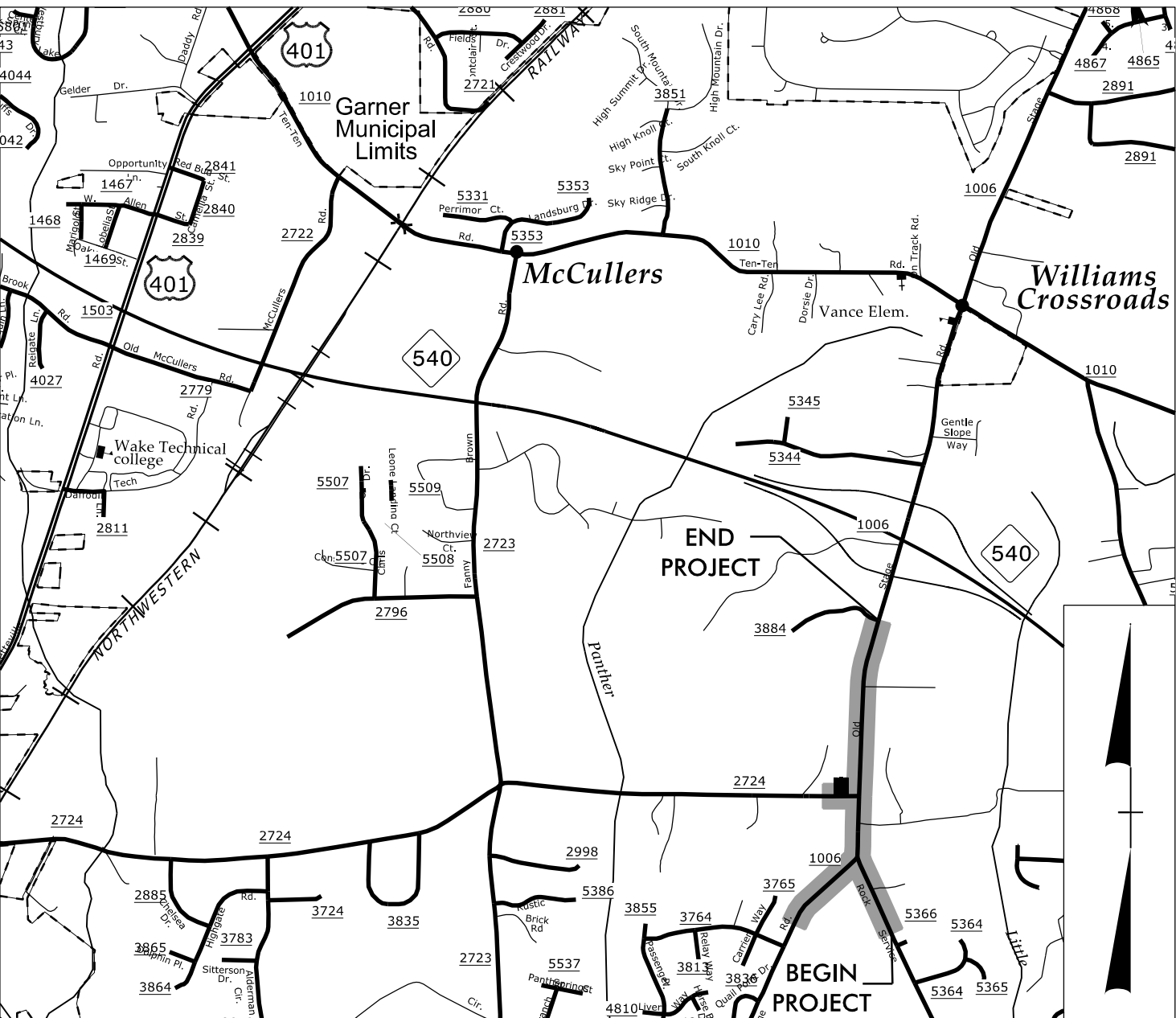
TIP PROJECT: HL-0008I

CONTRACT: C205038

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

LOCATION: WIDENING SR 1006 (OLD STAGE ROAD) FROM
SR 2736 (ROCK SERVICE STATION ROAD) TO
SR 3884 (ROLLING MEADOWS DRIVE)
TYPE OF WORK: GRADING, DRAINAGE, PAVING & SIGNALS



VICINITY MAP

NOTE: THIS PROJECT DOES NOT FALL WITHIN ANY MUNICIPAL BOUNDARIES.

BEGIN CONSTRUCTION
-Y1- STA. 10 + 50.00

END CONSTRUCTION
-Y1A- STA. 12 + 25.00

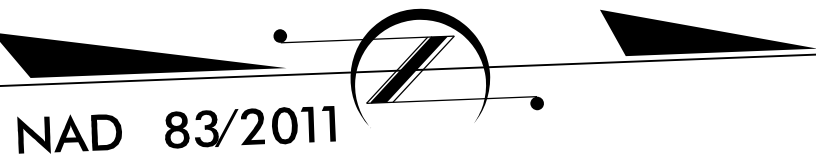
BEGIN CONSTRUCTION
-Y2- STA. 12 + 50.00

END CONSTRUCTION
-Y3- STA. 12 + 40.00

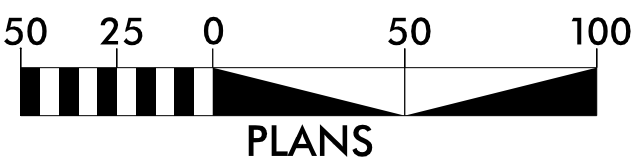
END CONSTRUCTION
-Y3A- STA. 10 + 85.00

BEGIN PROJECT HL-0008I
-L- STA. 10 + 00.00

END PROJECT HL-0008I
-L- STA. 54 + 14.00



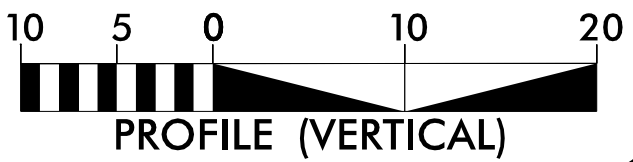
GRAPHIC SCALES



PLANS



PROFILE (HORIZONTAL)



PROFILE (VERTICAL)

DESIGN DATA

ADT 2025 = 16,830
ADT 2045 = 26,400
V = 50 MPH
FUNC MINOR
CLASS = ARTERIAL

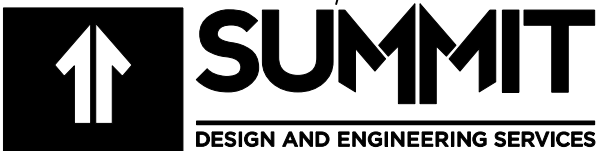
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT HL-0008I = 0.836 MILES
TOTAL LENGTH TIP PROJECT HL-0008I = 0.836 MILES

NCDOT CONTACT:

ANDREW MUSSELMAN, PE
PROJECT MANAGER, DIVISION 5



Prepared in the Office of:

320 Executive Ct.
Hillsborough, NC 27278-8551
Voice: (919) 732-3883
Fax: (919) 732-6776
www.summitde.net

RIGHT OF WAY DATE:
NOVEMBER 22, 2023

BRANDON W. JOHNSON, PE
PROJECT ENGINEER

LETTING DATE:
DECEMBER 16, 2025

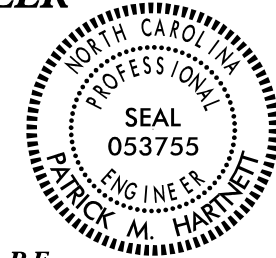
FAITH E. JAHNKE, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

9/25/2025

DocuSigned by:
Patrick Hartnett
SIGNATURE

P.E.

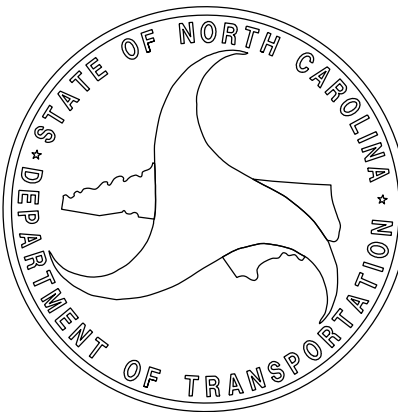
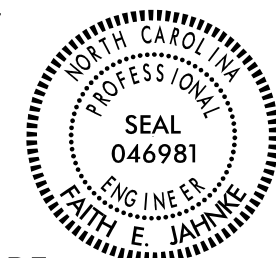


ROADWAY DESIGN ENGINEER

9/25/2025

DocuSigned by:
Faith Jahnke
SIGNATURE

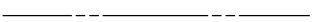
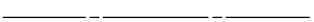
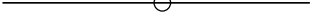
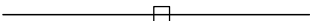
P.E.



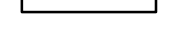
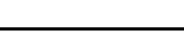
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

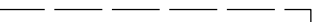
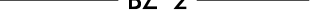
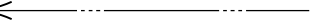
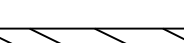
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

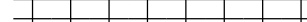
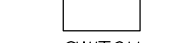
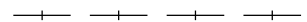
BUILDINGS AND OTHER CULTURE:

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

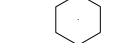
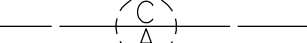
HYDROLOGY:

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

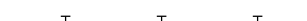
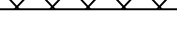
RAILROADS:

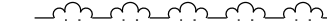
Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

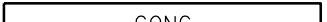
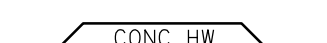
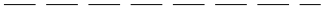
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent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

ROADS AND RELATED FEATURES:

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

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

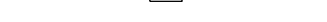
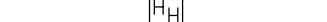
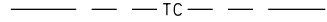
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

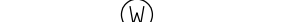
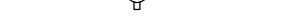
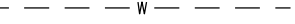
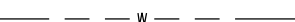
* SUE – Subsurface Utility Engineering
LOS – Level of Service – A,B,C or D (Accuracy)

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

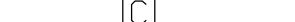
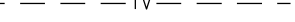
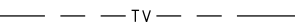
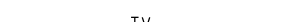
TELEPHONE:

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

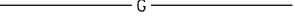
WATER:

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

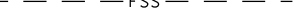
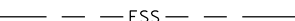
TV:

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

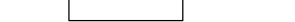
GAS:

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

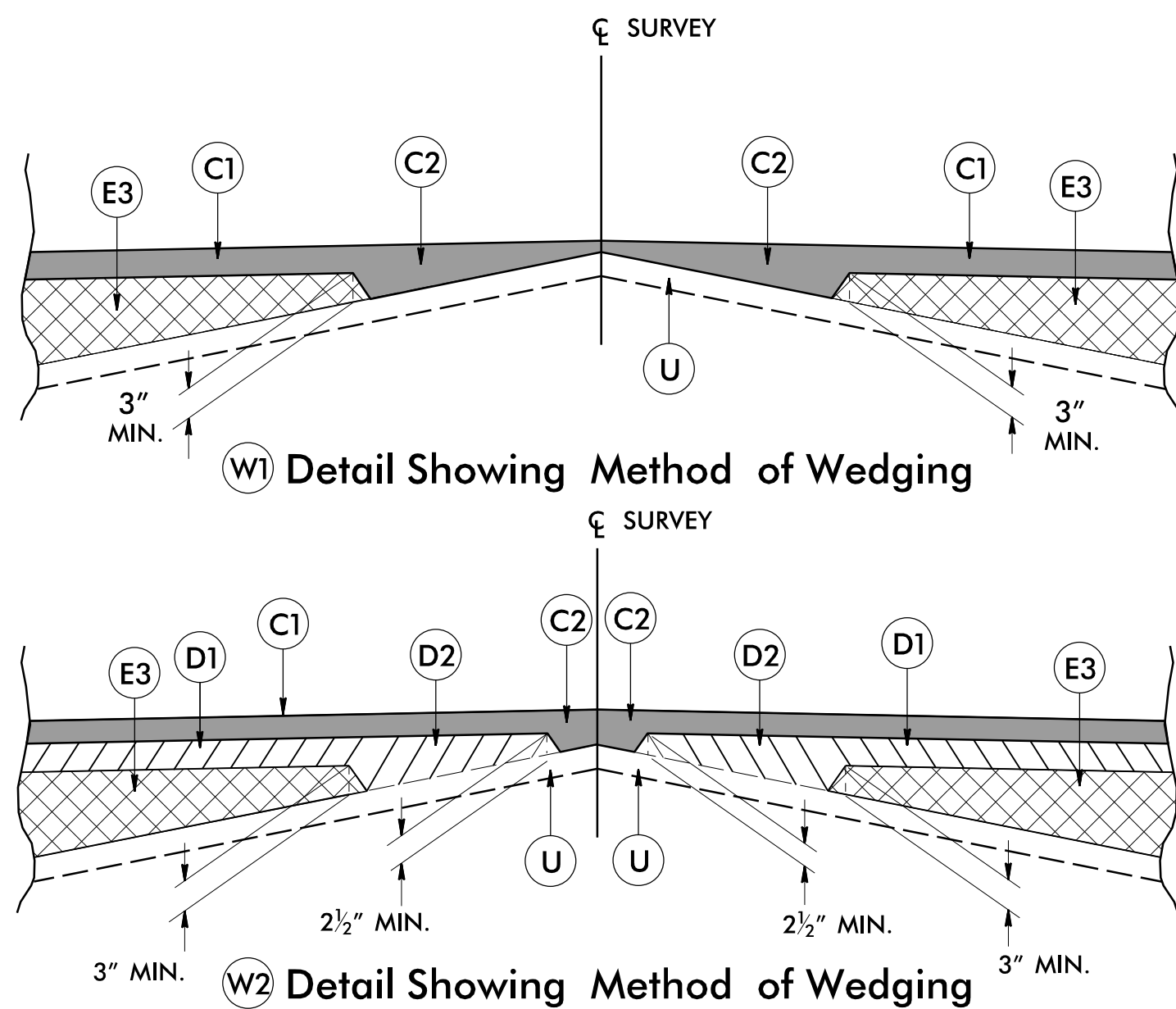
SANITARY SEWER:

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

MISCELLANEOUS:

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

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



USE TYPICAL SECTION NO. 1

-L- STA. 10+00.00 TO STA. 15+80.00

*VARIABLE MILLING REQUIRED AT:
STA. 10 + 75.00 TO STA. 10 + 80.00
STA. 12 + 65.00 TO STA. 13 + 80.00
STA. 15 + 60.00 TO STA. 15 + 80.00
(SEE CROSS SECTIONS)



USE TYPICAL SECTION NO. 2

—L— STA. 15+80.00 TO STA. 20+76.32

***VARIABLE MILLING REQUIRED AT:
STA. 15+80.00 TO STA 17+90.00
(SEE CROSS SECTIONS)**



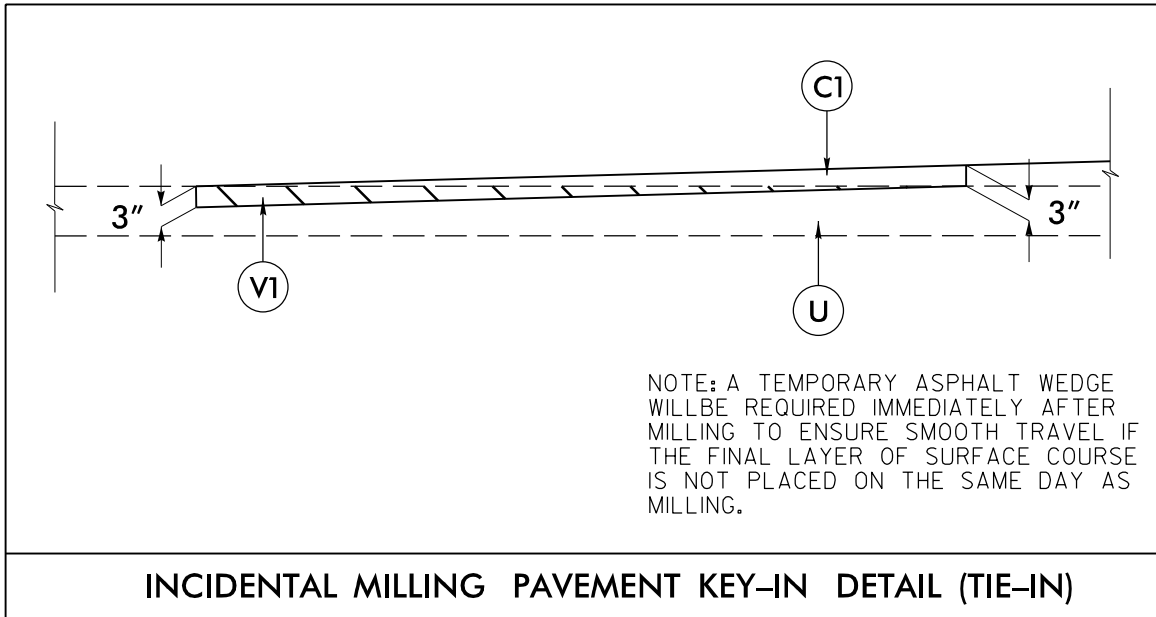
USE TYPICAL SECTION NO. 3

—L— STA. 20+76.32 TO STA. 54+14.00

*VARIABLE MILLING REQUIRED AT:
STA. 31+90.00 TO STA 32+90.00
STA. 52+70.00 TO STA 53+39.00
(SEE CROSS SECTIONS)

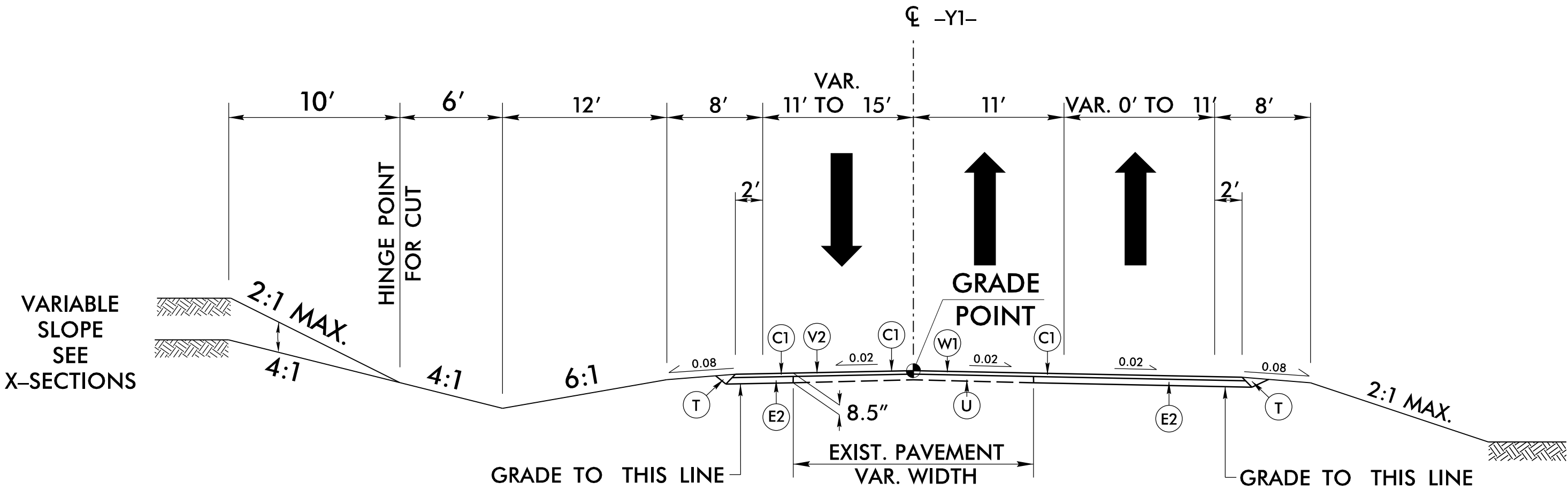
6/2/2025

PAVEMENT SCHEDULE	
C1	3" S9.5B
C2	VAR. S9.5B
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	5.5" B25.0C
E3	VAR. B25.0C
J	8" ABC
R1	2'-6" C&G
R2	1'-6" C&G
R3	MONO. ISLAND
R4	6" CONC DRWY
T	EARTH MAT.
U	EX. PAVEMENT
V1	INC. MILLING
V2	VAR. MILLING
W1	WEDGING (2)
W2	WEDGING (3)



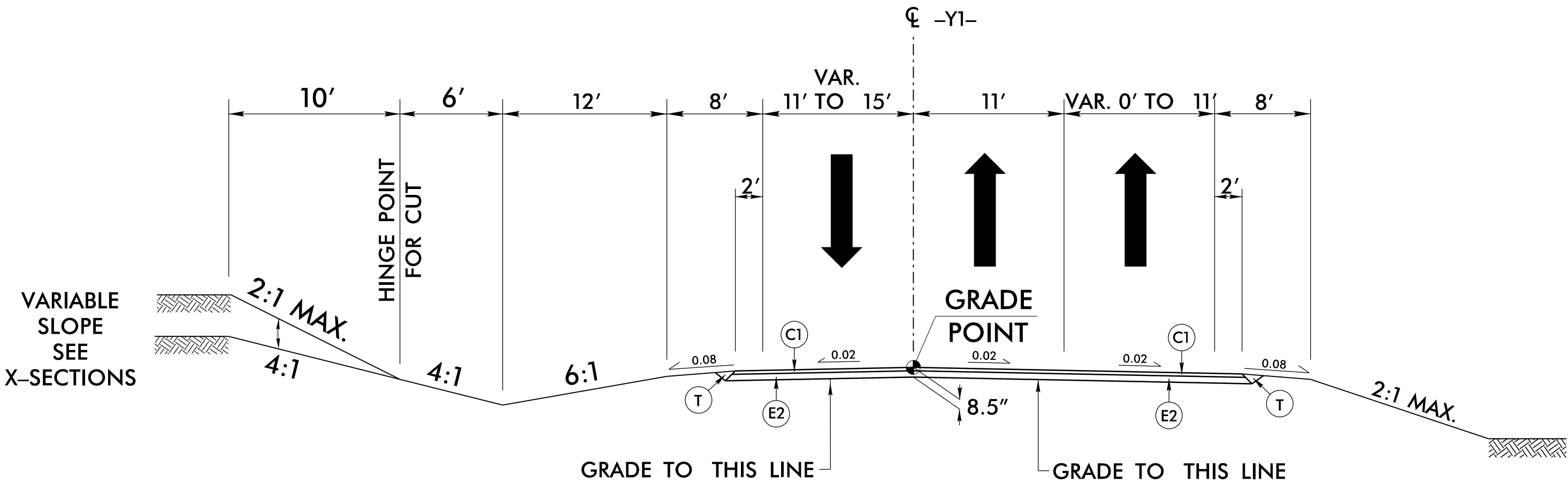
-L- STA. 10+00.00 TO STA. 10+75.00
-L- STA. 53+39.00 TO STA. 54+14.00
-Y1- STA. 10+50.00 TO STA. 11+25.00
-Y1A- STA. 10+15.00 TO STA. 10+90.00
-Y2- STA. 12+50.00 TO STA. 13+25.00
-Y3- STA. 11+65.00 TO STA. 12+40.00

STATION RANGES ARE APPROXIMATE ONLY.
GRADE MAY BE ADJUSTED BY ENGINEER
TO ENSURE A PROPER TIE-IN.



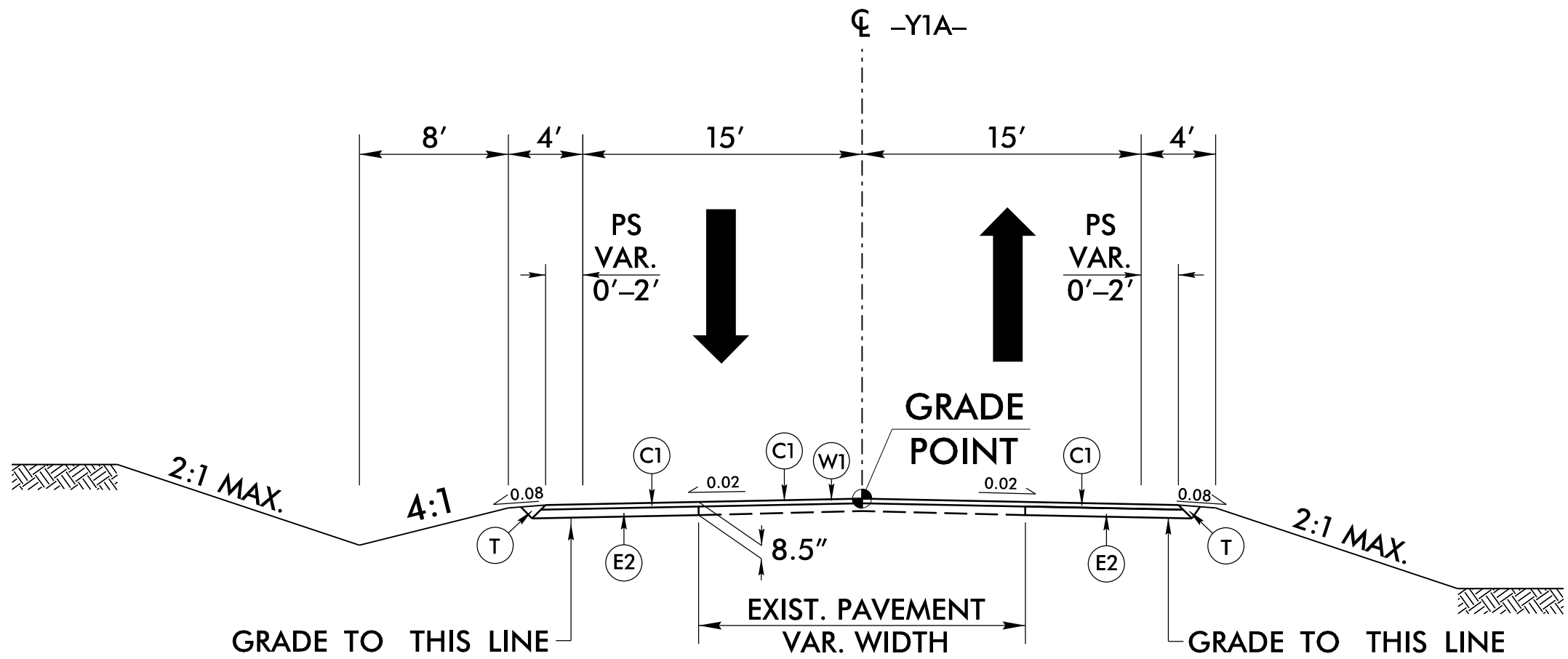
TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4
-Y1- STA. 10+50.00 TO STA. 14+11.00



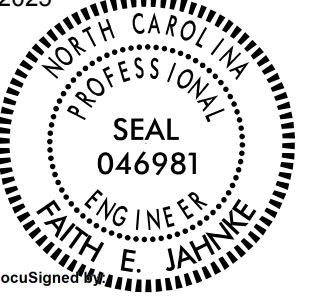
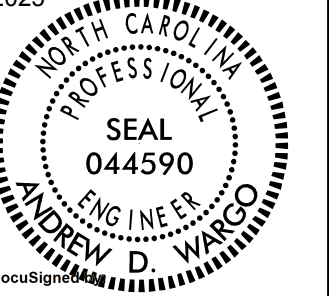
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5
-Y1- STA. 14+11.00 TO STA. 17+04.48



TYPICAL SECTION NO. 6

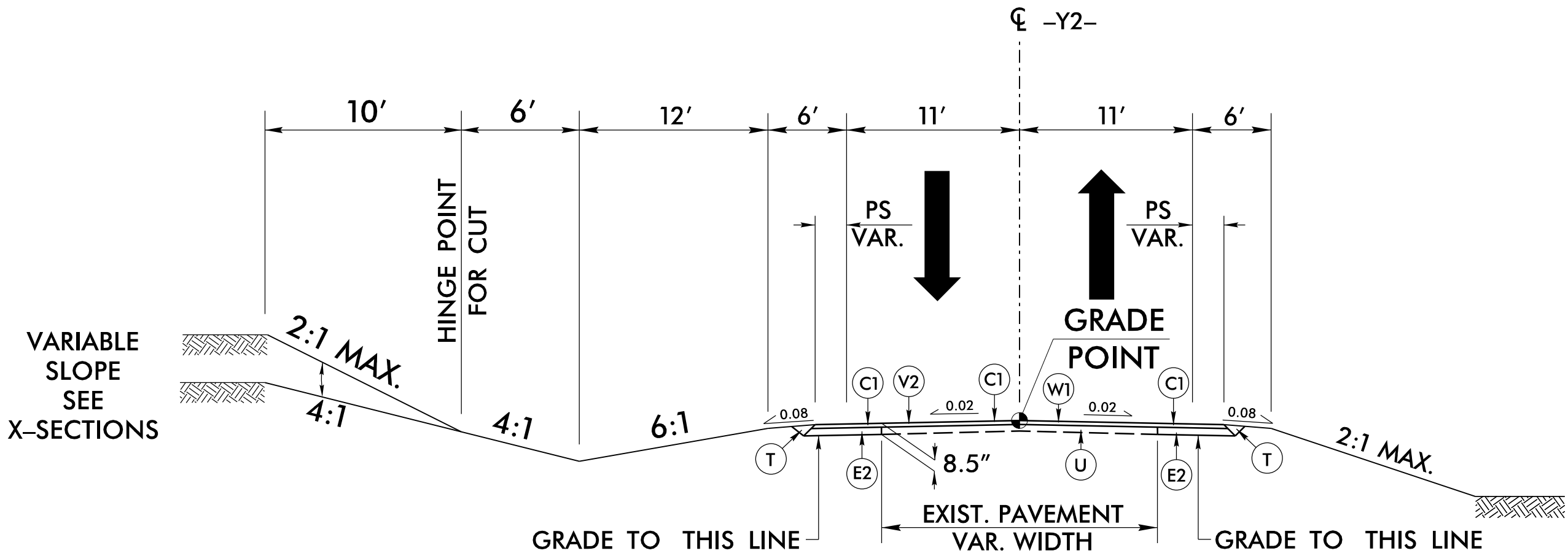
USE TYPICAL SECTION NO. 6
-Y1A- STA. 10+11.00 TO 12+25.00

PROJECT REFERENCE NO. <i>HL-00081</i>		SHEET NO. <i>2A-2</i>	
ROADWAY DESIGN ENGINEER 9/8/2025  <i>Faith Jahnke</i>		PAVEMENT DESIGN ENGINEER 9/8/2025  <i>Andrew D. Wargo</i>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: 		NC FIRM LICENSE No. C-5976 220 Executive Ct. Hillsborough, NC 27278 (919) 732-3863 (919) 732-6676 (FAX)	

05-SEP-2025 08:47
DT-2008103-1.dgn
zoe.zwick

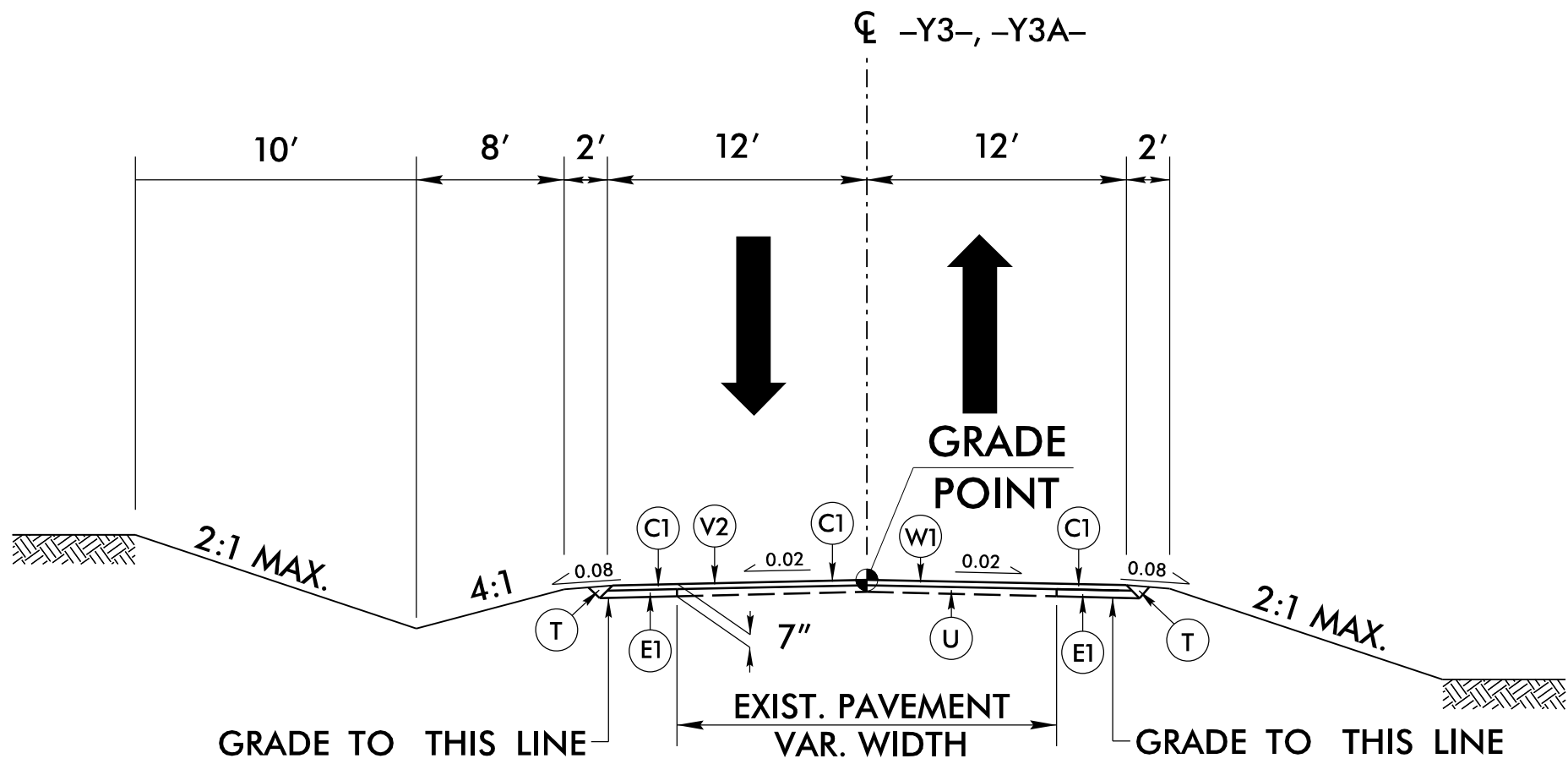
6/2/2025

PAVEMENT SCHEDULE	
C1	3" S9.5B
C2	VAR. S9.5B
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	5.5" B25.0C
E3	VAR. B25.0C
J	8" ABC
R1	2'-6" C&G
R2	1'-6" C&G
R3	MONO. ISLAND
R4	6" CONC DRWY
T	EARTH MAT.
U	EX. PAVEMENT
V1	INC. MILLING
V2	VAR. MILLING
W1	WEDGING (2)
W2	WEDGING (3)



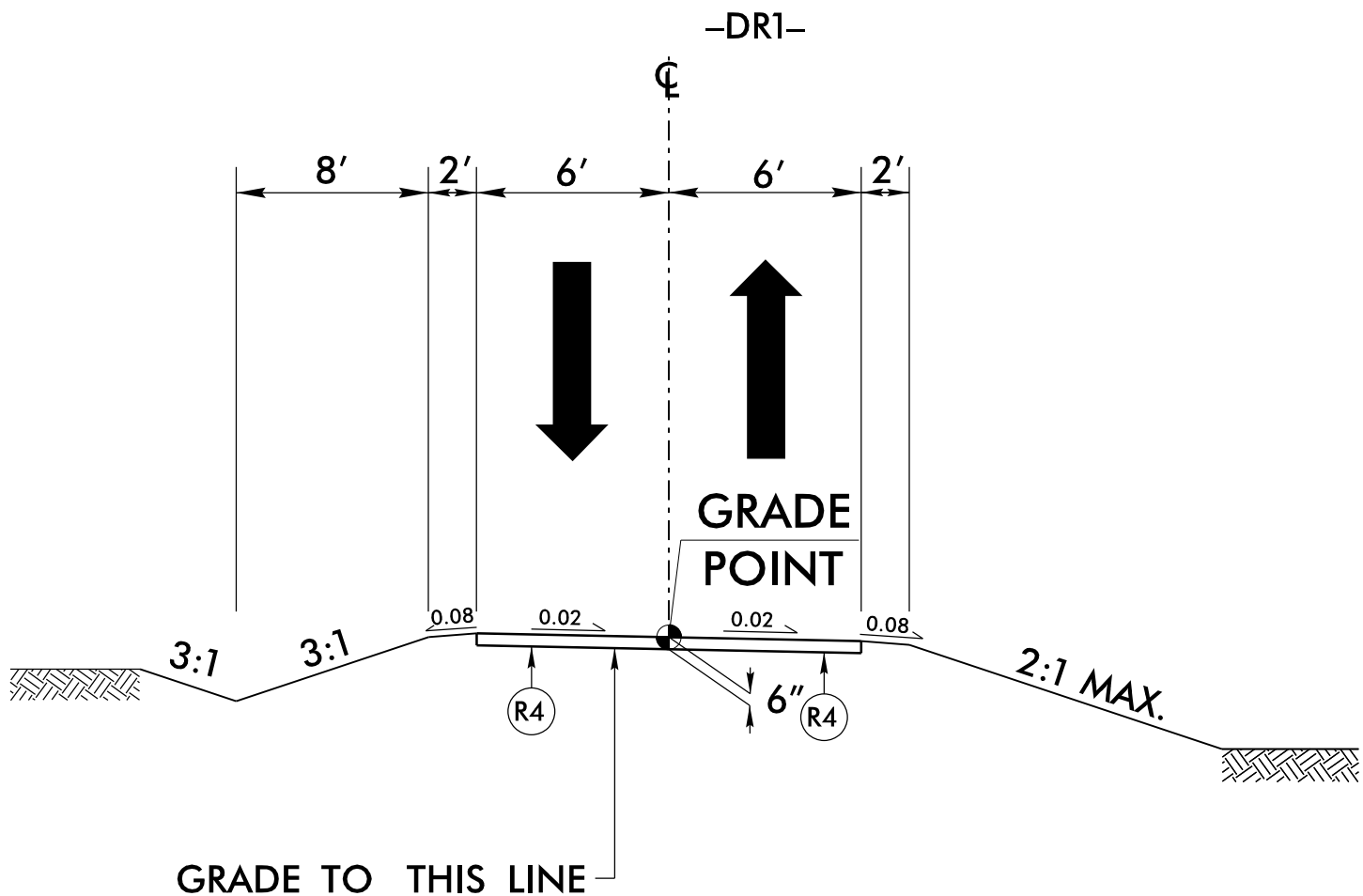
TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7
-Y2- STA. 12+50.00 TO STA. 14+54.98



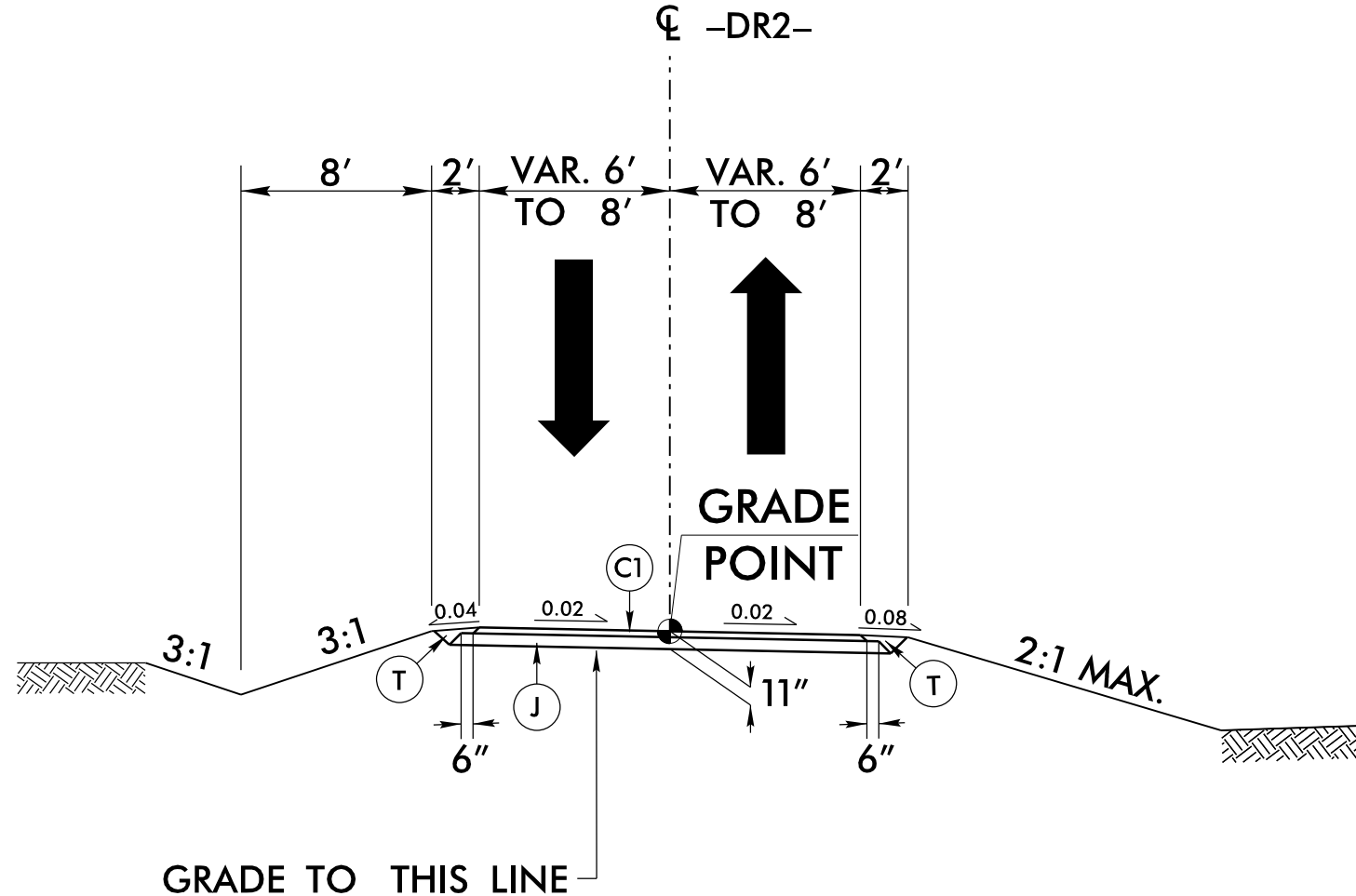
TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8
-Y3- STA. 10+40.00 TO STA. 12+40.00
-Y3A- STA. 10+12.00 TO STA. 10+85.00



TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9
-DR1- STA. 10+23.00 TO STA. 11+01.00

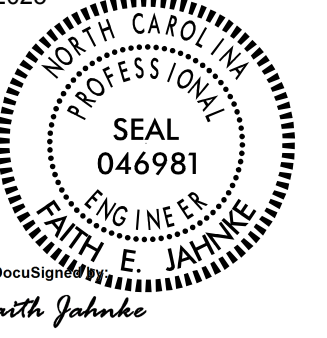


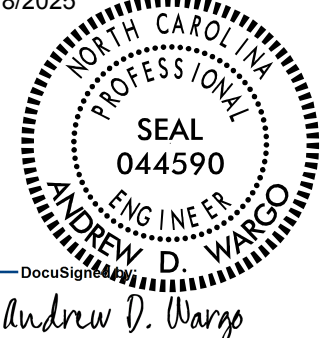
TYPICAL SECTION NO. 10

USE TYPICAL SECTION NO. 10
-DR2- STA. 10+41.45 TO STA. 11+69.45

PROJECT REFERENCE NO.
HL-00081

SHEET NO.
2A-3

ROADWAY DESIGN ENGINEER
9/8/2025

Faith Jahnke

PAVEMENT DESIGN ENGINEER
9/8/2025

Andrew D. Wargo

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of:


NC FIRM LICENSE No. C-5976
220 Executive Ct.
Hillsborough, NC 27278
(919) 732-3863
(919) 732-6676 (FAX)

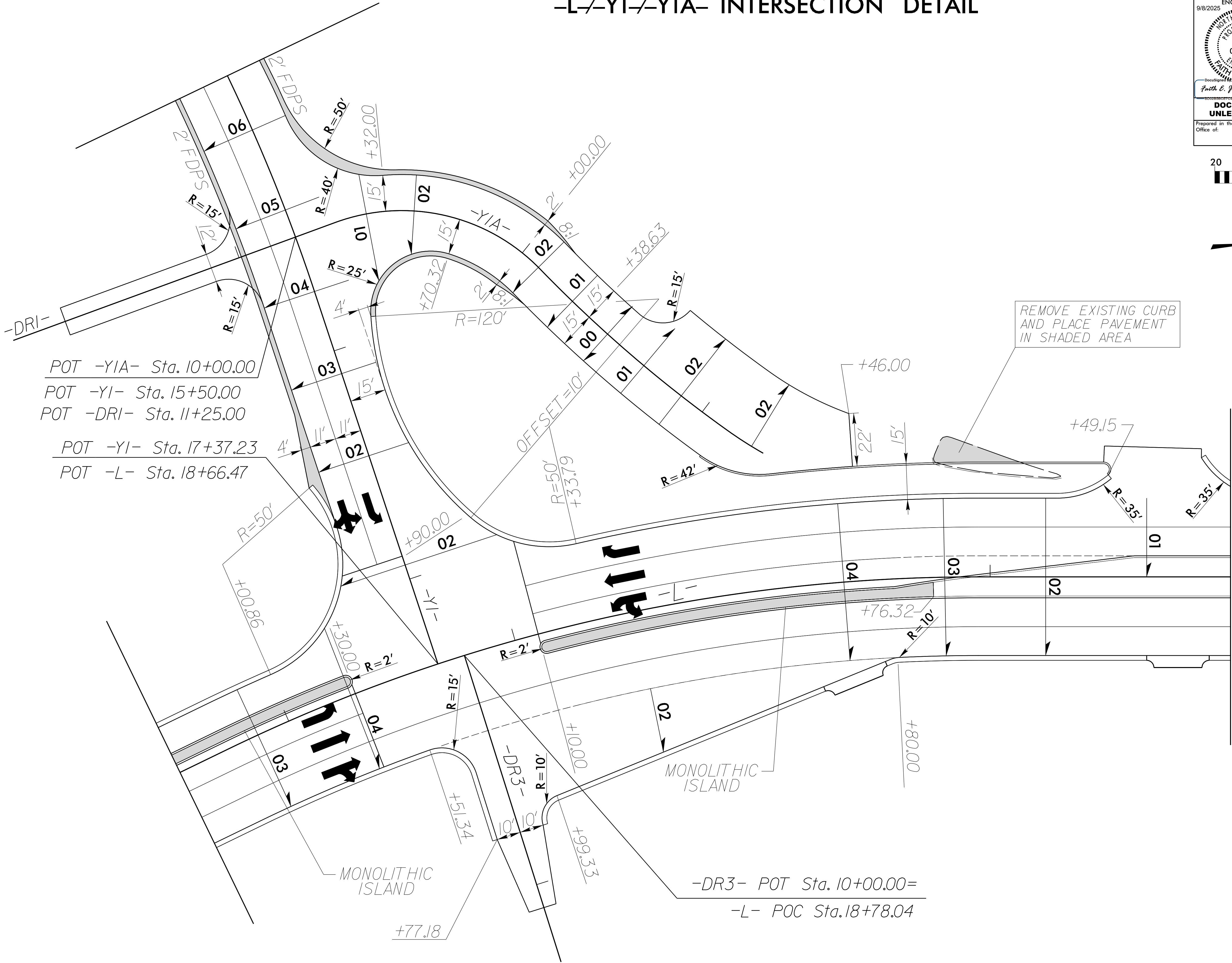
05-SEP-2025 08:47
HP-20081-01.dgn
zoe.zwick

8/17/99

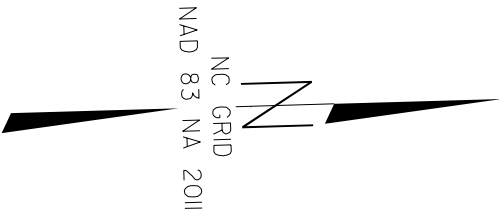
REVISIONS

07-AUG-2025 15:11
DT-2008333.dwg DET_2B1.dgn
devonboule

-L/-Y1/-Y1A- INTERSECTION DETAIL



PROJECT REFERENCE NO. <i>HL-00081</i>		SHEET NO. <i>2B-1</i>	
ROADWAY DESIGN ENGINEER 9/8/2025		PROFESSIONAL SEAL 046981 ENGINEER NORTH CAROLINA PAITH E. JAHNKE DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
DocuSign <i>Paith E. Jahnke</i>			
Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES			
		NC FIRM LICENSE No. C-5976 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3863 (919) 732-6676 (FAX)	

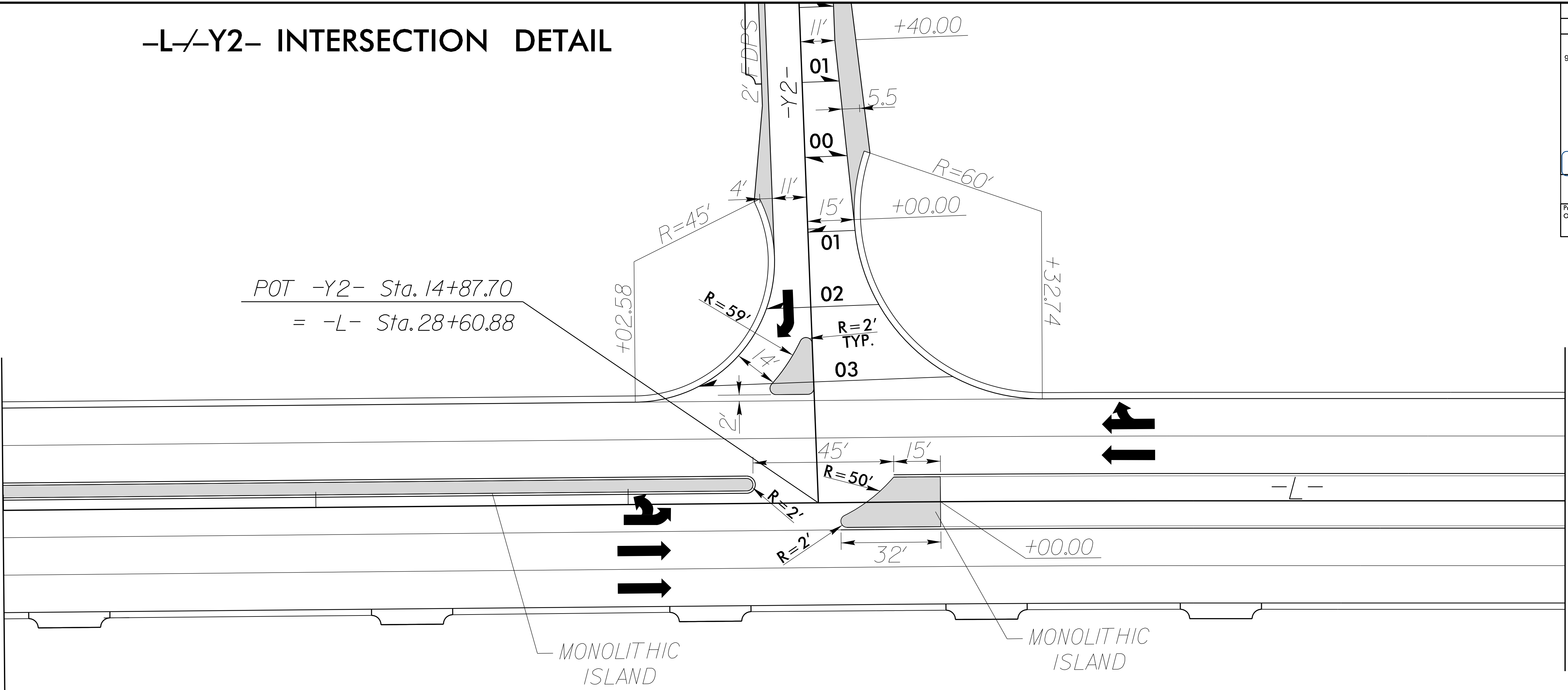


8/17/99

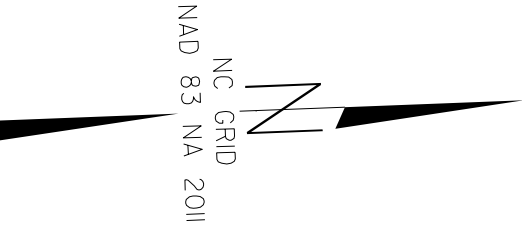
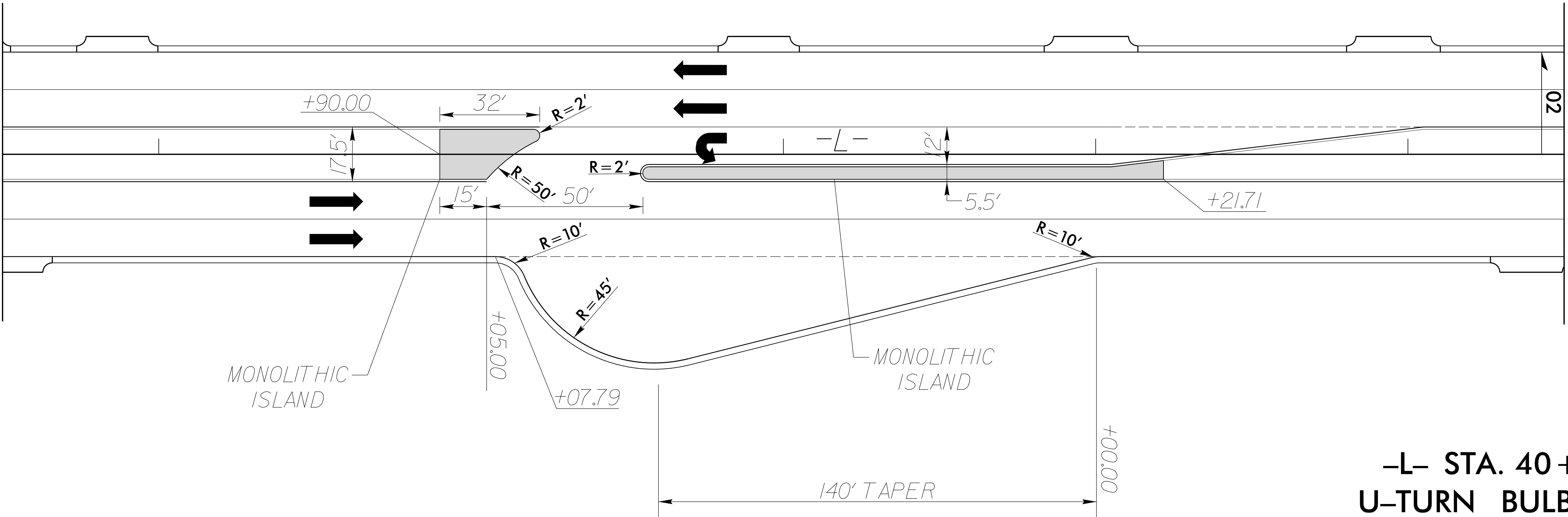
REVISIONS

07-AUG-2025 15:11
DT-2008333u DET-2B2.dgn
devonboule

-L-/Y2- INTERSECTION DETAIL



PROJECT REFERENCE NO. HL-00081		SHEET NO. 2B-2	
ROADWAY DESIGN ENGINEER 9/8/2025		Seal and Stamp Area	
Seal and Stamp Area			
Seal and Stamp Area			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		NC FIRM LICENSE No. C-5976 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3863 (919) 732-6676 (FAX)	



-L- STA. 40+07.79
U-TURN BULB DETAIL

8/17/99

REVISIONS

07-AUG-2025 15:11
HL-00081_Rdy_DET_2B3.dgn
devon.holle

-L-/Y3- INTERSECTION DETAIL

-Y3A- POT Sta. 10+00.00=

-Y3- POC Sta. 11+59.11

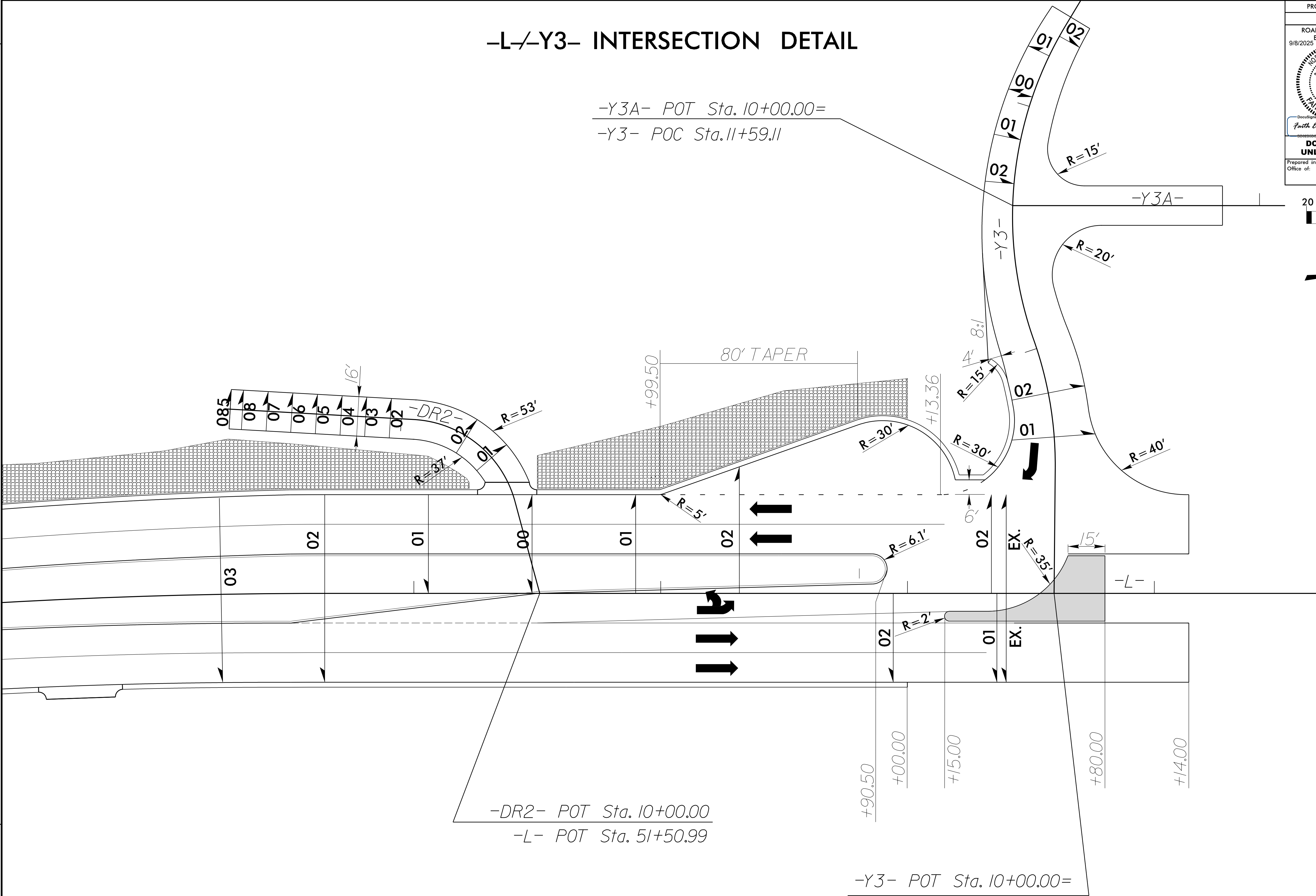
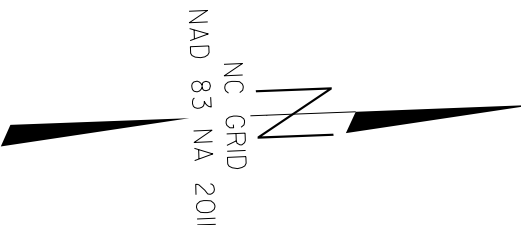
-DR2- POT Sta. 10+00.00

-L- POT Sta. 51+50.99

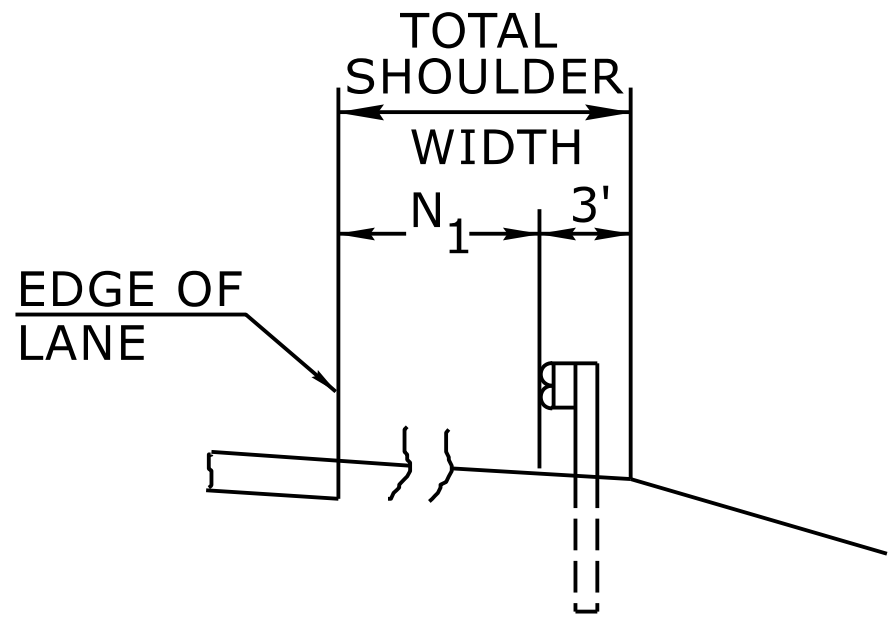
-Y3- POT Sta. 10+00.00=

-L- Sta. 53+59.39

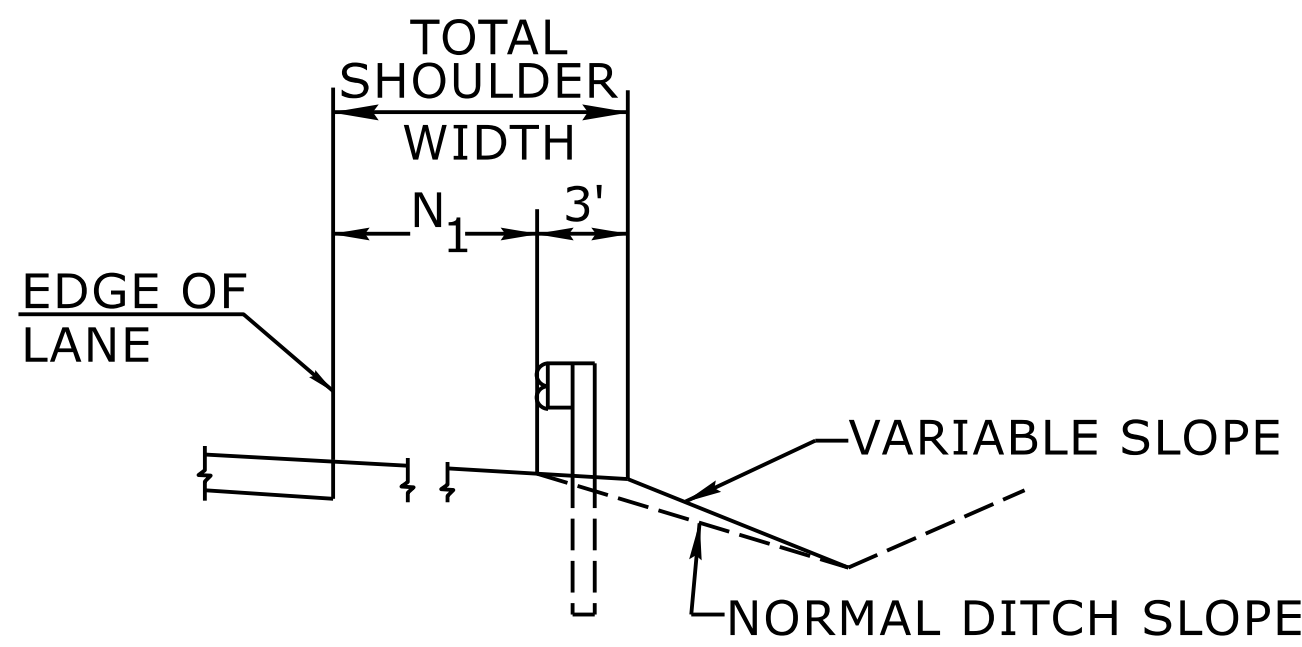
PROJECT REFERENCE NO. HL-00081		SHEET NO. 2B-3
ROADWAY DESIGN ENGINEER 9/8/2025		SEAL 046981 RUTH E. JAHNKE ENGINEER NORTH CAROLINA PROFESSIONAL
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared in the Office of: Summit DESIGN AND ENGINEERING SERVICES		
NC FIRM LICENSE No. C-5176 320 Executive Ct. Hillsborough, NC 27218 (919) 732-3883 (919) 732-6676 (FAX)		



PROJECT REFERENCE NO.	SHEET NO.
HL-00081	2C-1

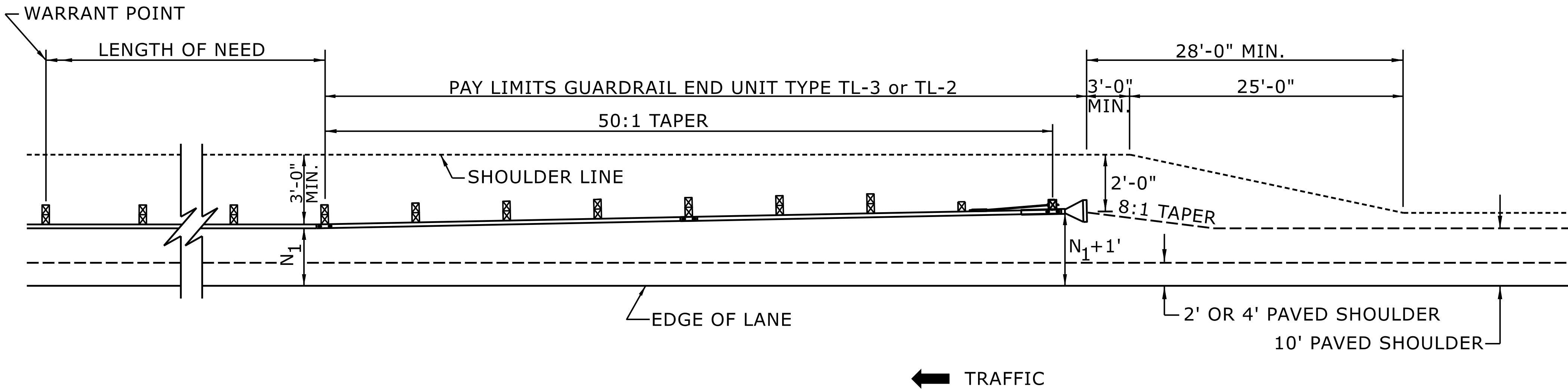


FILL SECTION



CUT SECTION

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



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

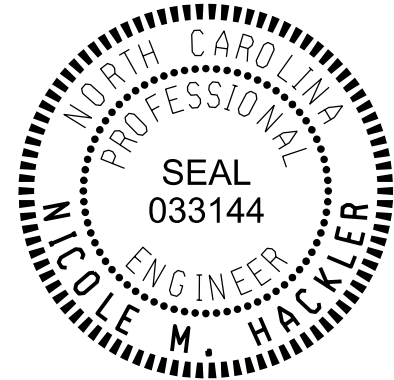
DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 6 OF 15
862D01

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

9/8/2025



Signed by:
Nicole M. Hackler
588432034164CS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

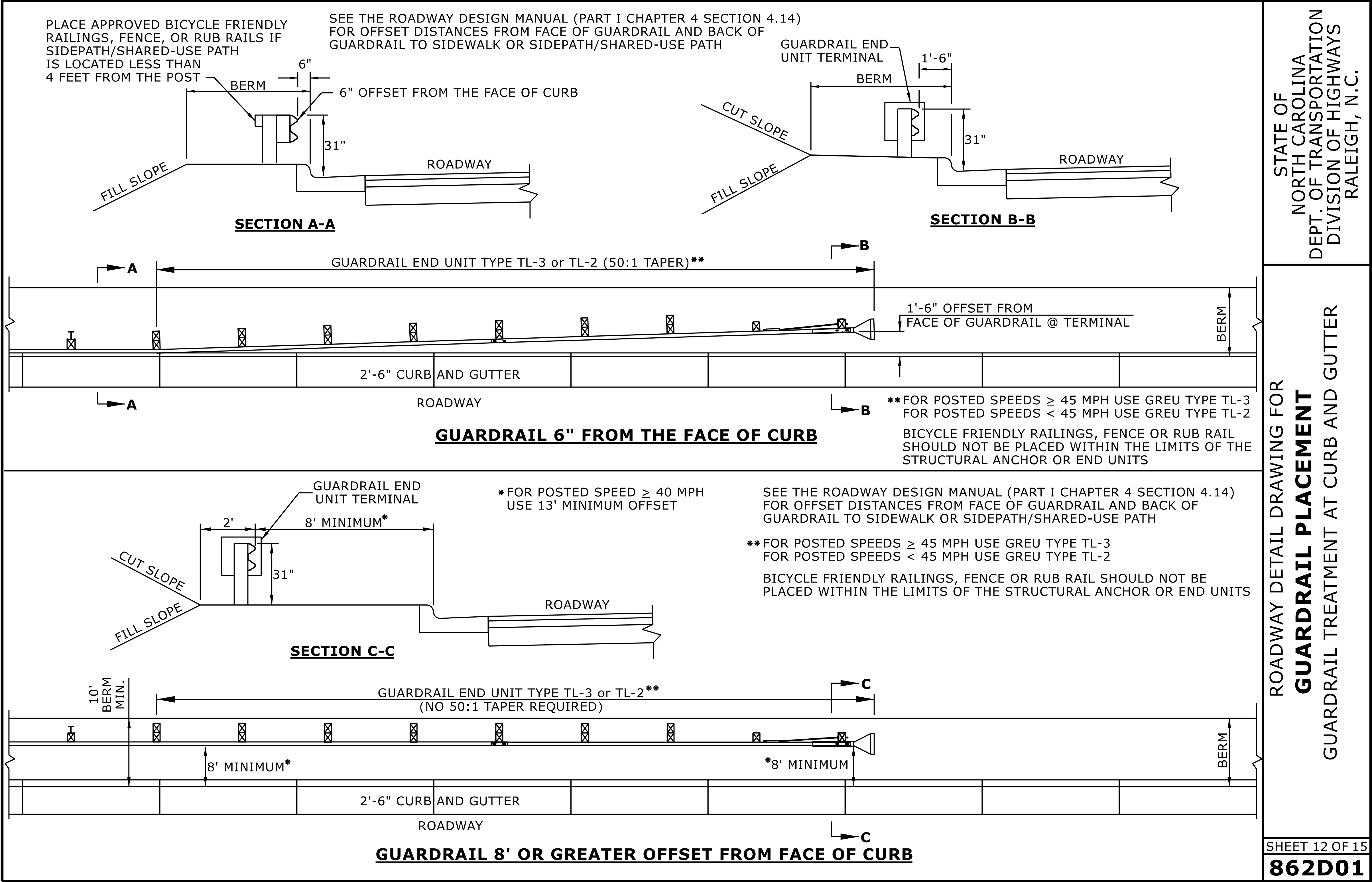
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

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

SEE TITLE BLOCK

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

PROJECT REFERENCE NO.	SHEET NO.
HL-0008I	2C-2

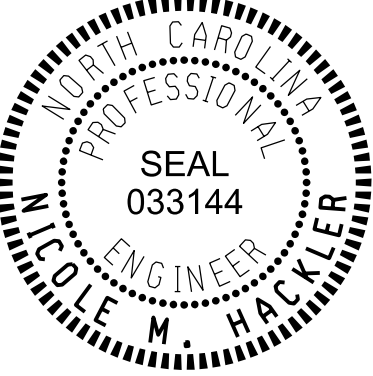


STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

SHEET 12 OF 15
862D01

9/8/2025



Signed by:

Nicole M. Hacker
5884323D34164C5...

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950

FAX 919-250-4119

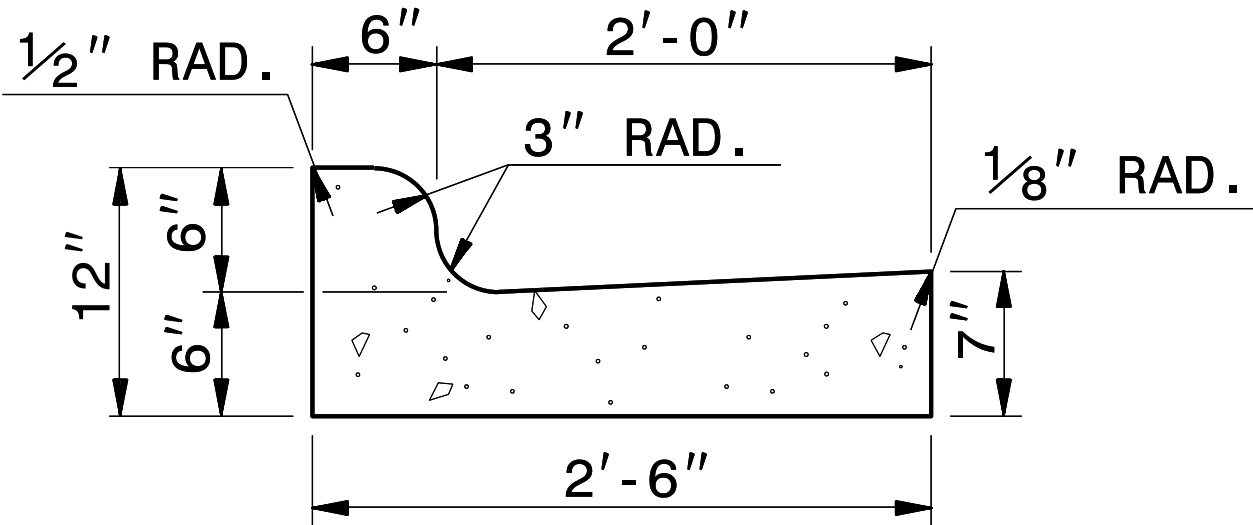
SEE TITLE BLOCK

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

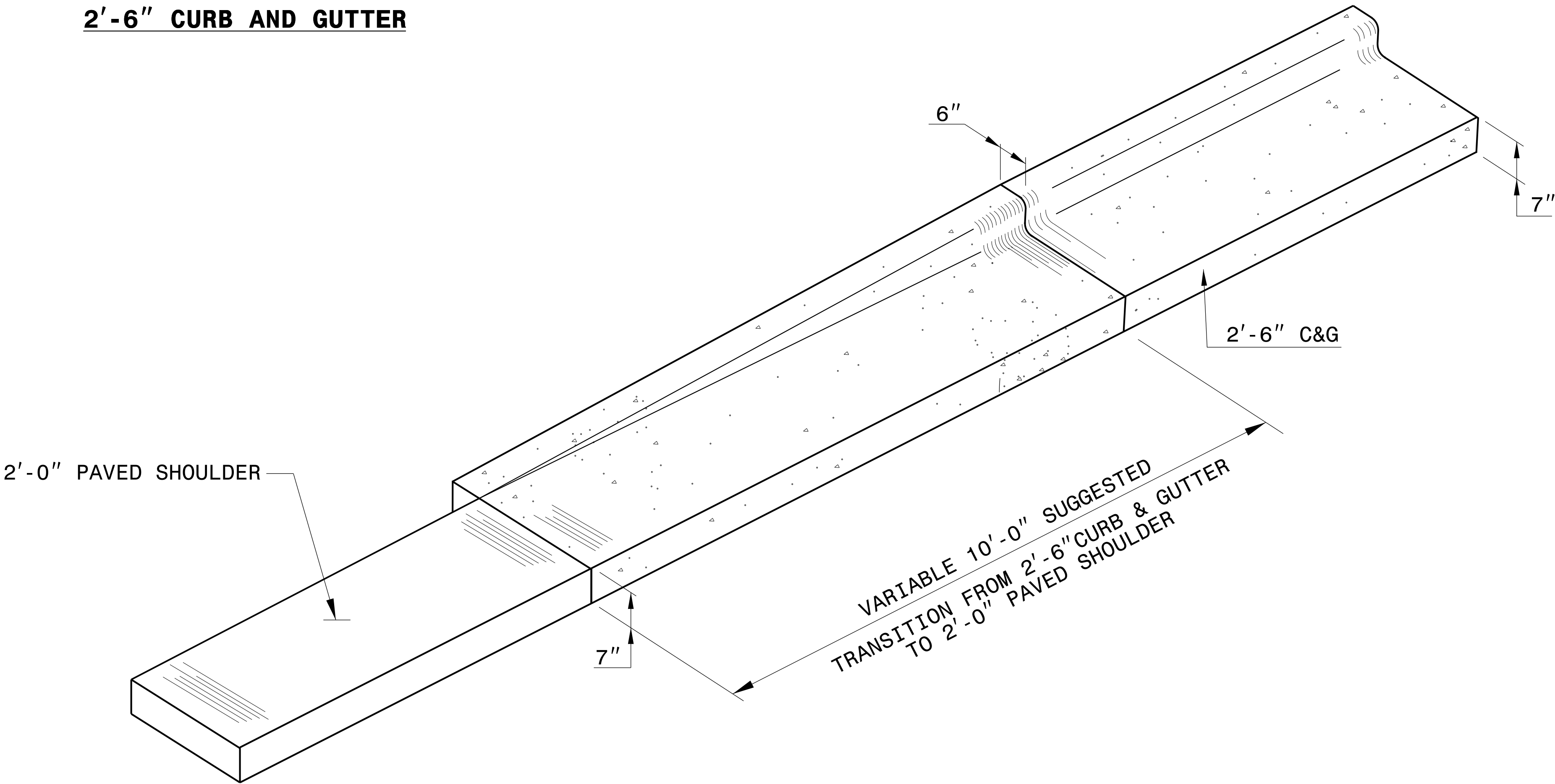
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
HL-00081	2C-3

*NOTE: SEE STD. DWG. 846.01
FOR GENERAL NOTES



2'-6" CURB AND GUTTER



ISOMETRIC VIEW OF TRANSITION

9/8/2025



Signed by:
Nicole M. Hickler
588432034164CS...

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

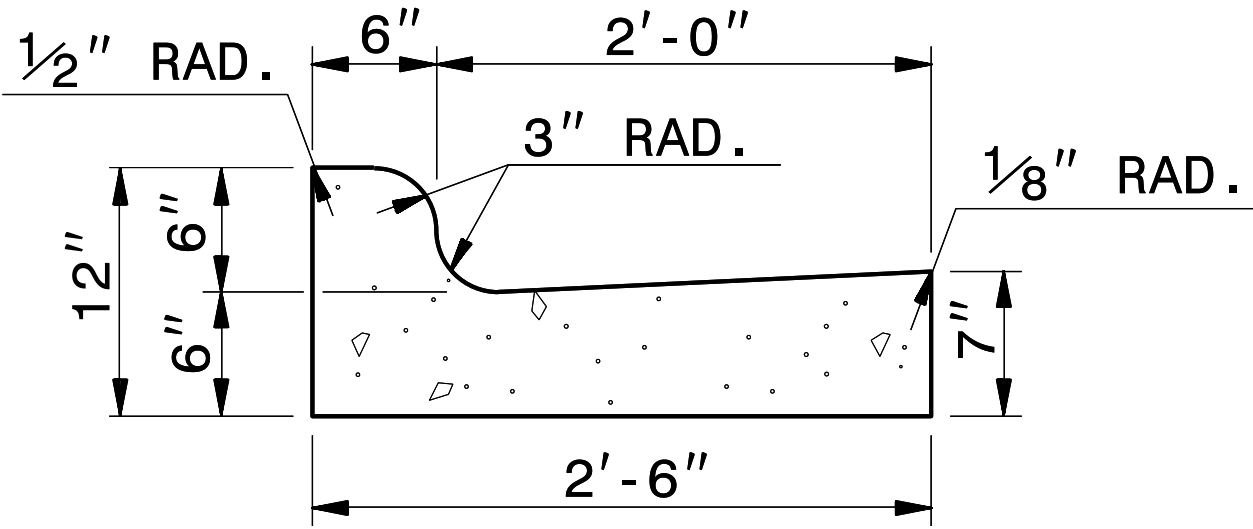
**DETAIL OF 10' TRANSITION
FROM 2'-6" CURB & GUTTER
TO 2'-0" PAVED SHOULDER**

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: rnbritt DATE: 04-13-2016
CHECKED BY: _____ DATE: _____
FILE SPEC: details/nbritt/english/misc/c&g transition sections.dgn

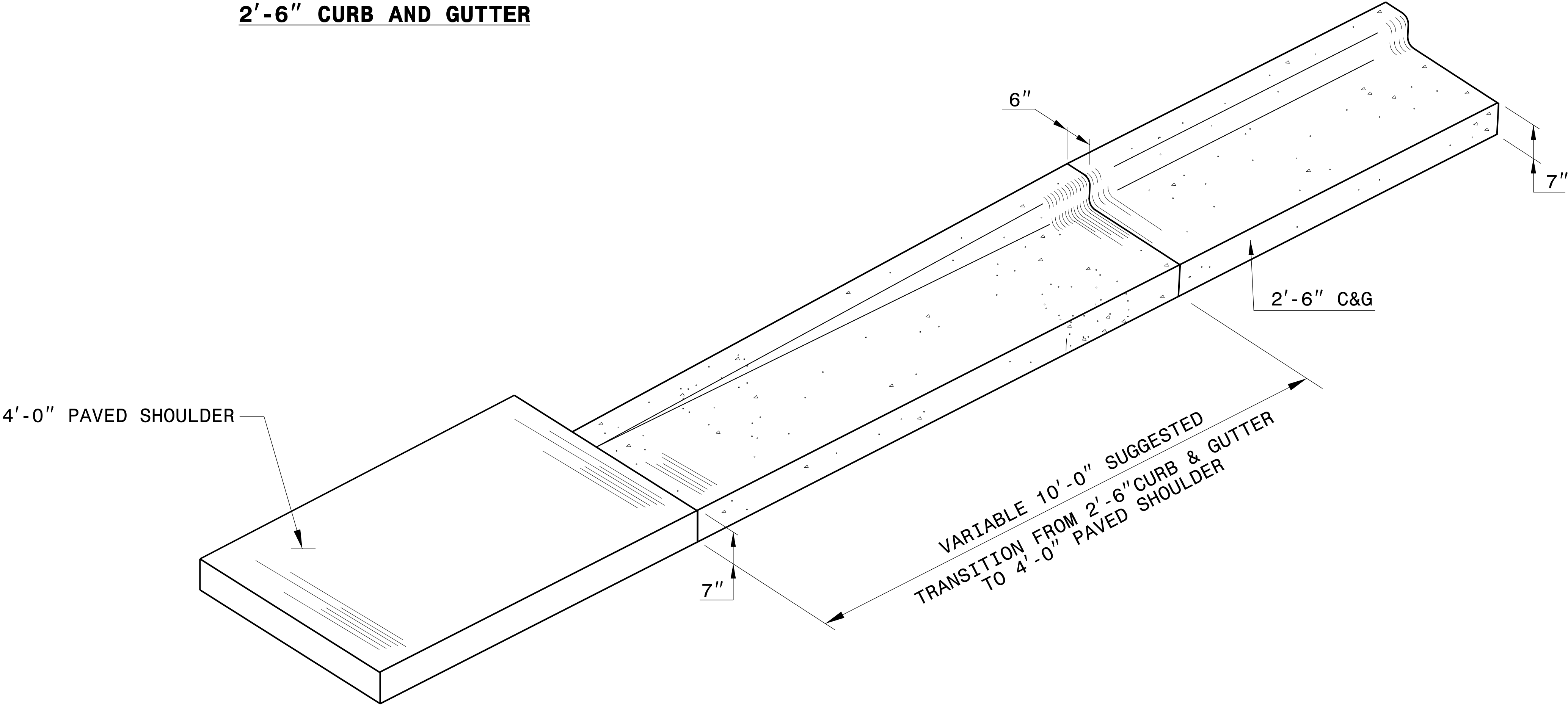
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
HL-00081	2C-4

*NOTE: SEE STD. DWG. 846.01
FOR GENERAL NOTES



2'-6" CURB AND GUTTER



ISOMETRIC VIEW OF TRANSITION

9/8/2025



Signed by:

Nicole M. Hecker

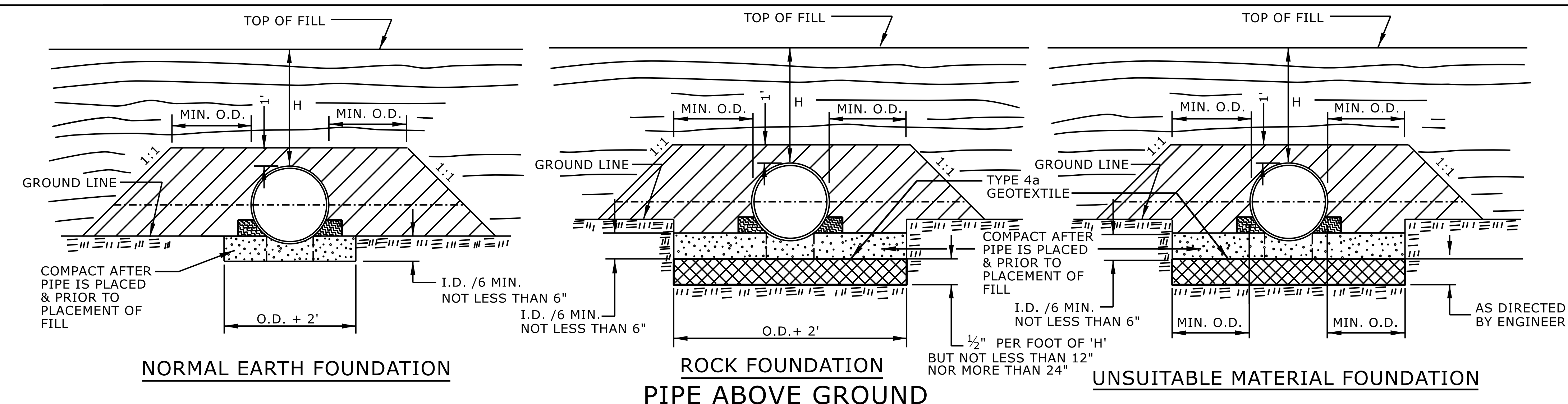
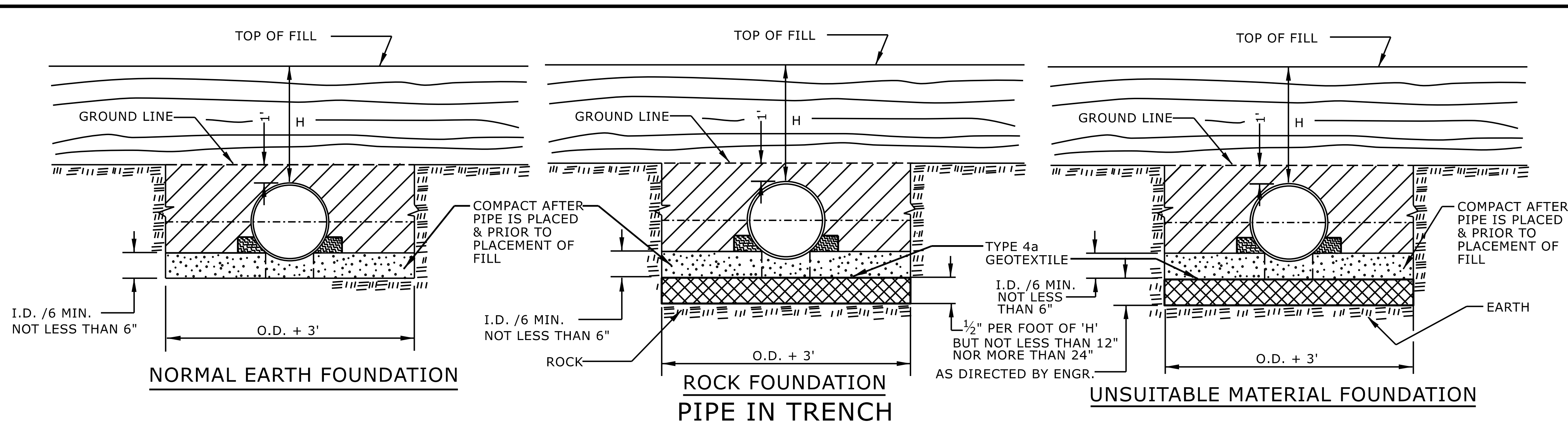
568430323418405

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

**DETAIL OF 10' TRANSITION
FROM 2'-6" CURB & GUTTER
TO 4'-0" PAVED SHOULDER**

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: rnbritt DATE: 04-13-2016
CHECKED BY: _____ DATE: _____
FILE SPEC: details/nbritt/english/misc/c&g transition sections.dgn



GENERAL NOTES:

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

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

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

	APPROVED SUITABLE LOCAL MATERIAL.
	TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
	LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

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

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

	SPRINGLINE OF PIPE
	SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.
	UNDISTURBED EARTH MATERIAL
	SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

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

ROADWAY DETAIL DRAWING FOR METHOD OF PIPE INSTALLATION FLEXIBLE PIPE

SHEET 1 OF 2

300.01

9/8/2025



The seal is circular with a double-lined border. The outer ring contains the text "NORTH CAROLINA" at the top and "ENGINEER" at the bottom. The inner circle contains the text "PROFESSIONAL" at the top and "SEAL" at the bottom. In the center, the number "033144" is displayed. Below the seal, the name "NICOLE M. HACKLER" is written in a stylized font.

Signed by:
Nicole M. Hackler

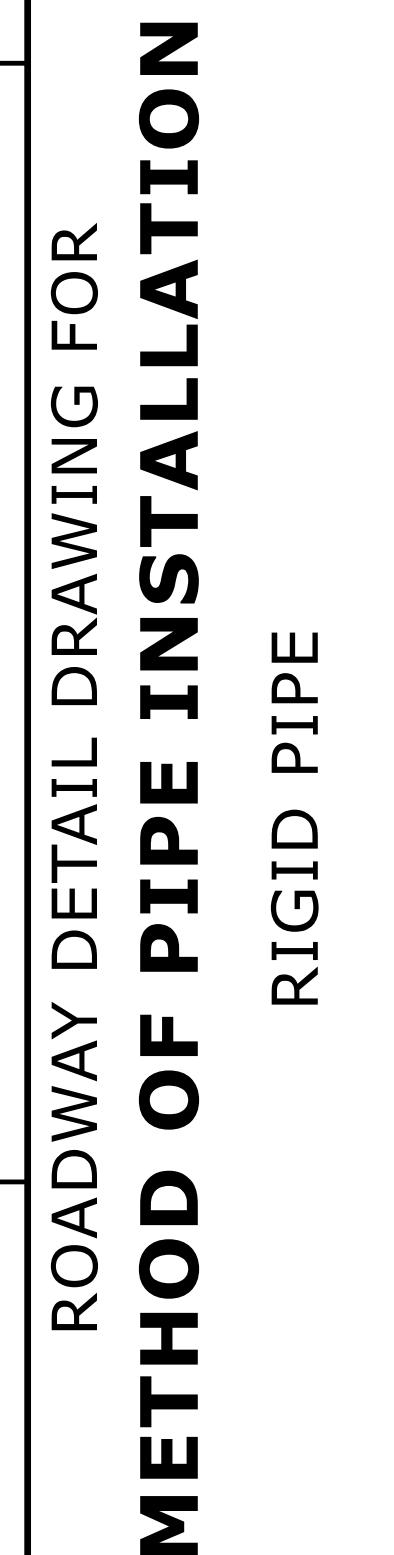
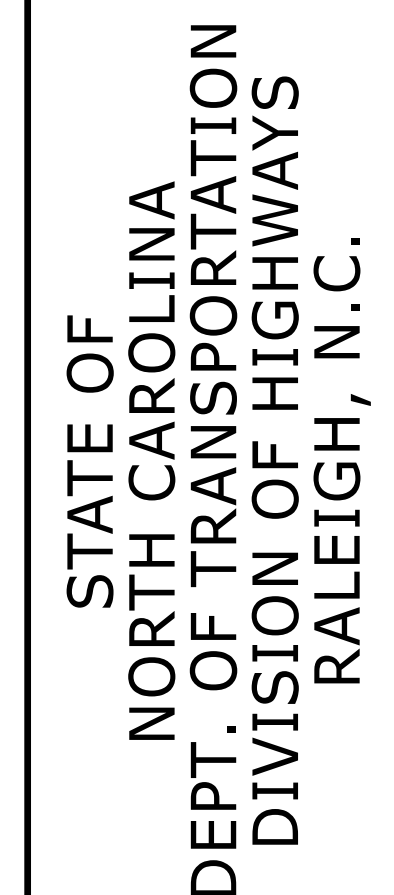
6884323D34164C5

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

SEE TITLE BLOCK

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



	SPRINGLINE OF PIPE
	SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.
	UNDISTURBED EARTH MATERIAL
	SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

SHEET 2 OF 2
300.01

A circular professional engineer seal for Nicole M. Hackler, North Carolina. The seal features a double-lined circular border. Between the lines, the words "NORTH CAROLINA" are at the top, "PROFESSIONAL" is on the left, "ENGINEER" is on the right, and "NICOLE M. HACKLER" is at the bottom. In the center of the seal, the word "SEAL" is positioned above the license number "033144".

Signed by:
Nicole M Hachler

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

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

SEE TITLE BLOCK

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

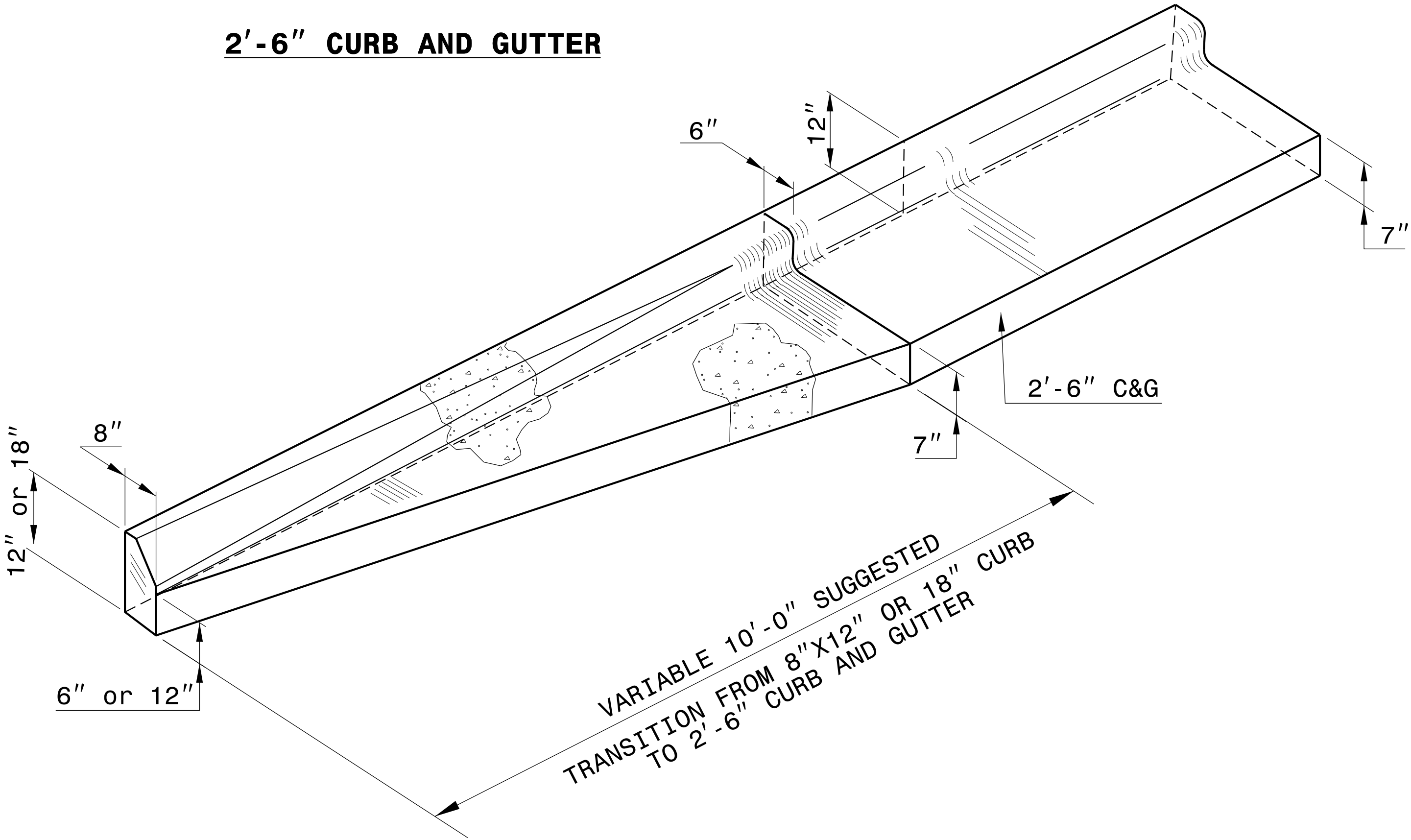
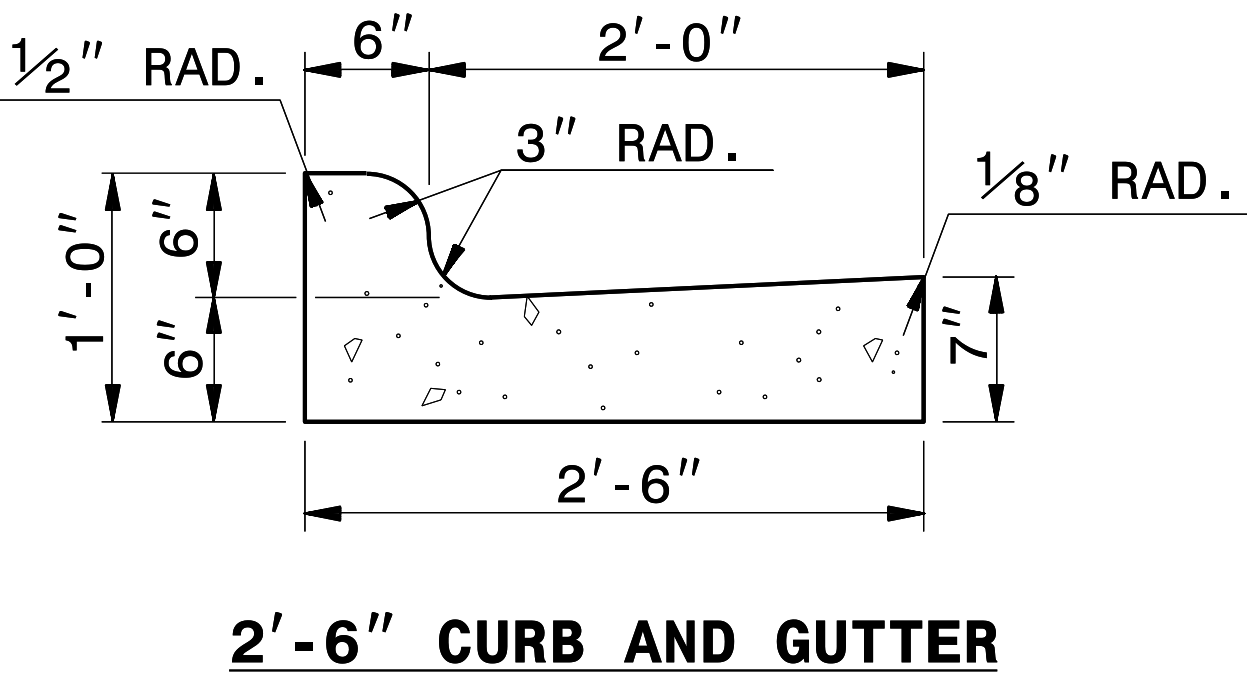
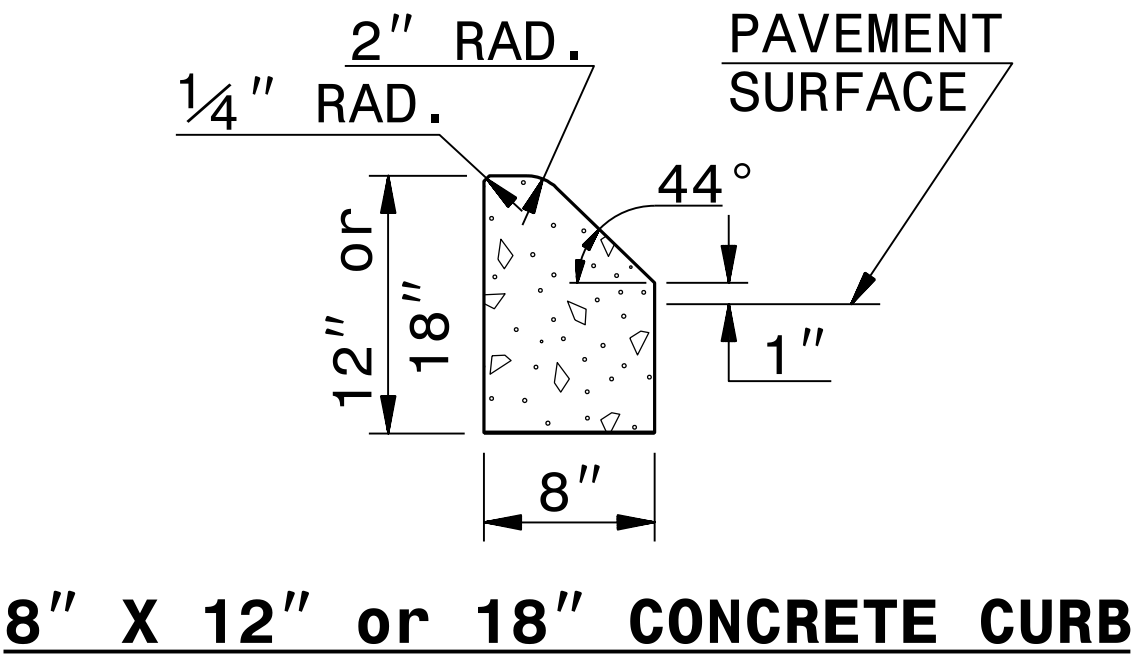
Docusign Envelope ID: 8091AF9E-08D0-486B-A0B3-CEB6CBF72CB2

5/14/99

13-MAR-2019 09:50
S:\Contracts\Contractors\Special Details\eroward\usr\details\stand\c&g transition sections.dgn
J.Hoverton AT CSD-292595

PROJECT REFERENCE NO.	SHEET NO.
HL-00081	2C-7

*NOTE: SEE STD. DWG. 846.01
FOR GENERAL NOTES



9/8/2025



Signed by:
Nicole M. Hoverton
589432034164C2

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
DETAIL OF 8"x 12" or 18" CURB TO 2'-6" CURB & GUTTER TRANSITION SECTION	
ORIGINAL BY: _____	DATE: _____
MODIFIED BY: K. KEMPF	DATE: 4-05-18
CHECKED BY: _____	DATE: _____
FILE SPEC.: details/eroward/usr/details/stand/cgtransit.dgn	



DRAINAGE STRUCTURE SHALL MEET REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.

ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED 1" CLASS "B" CONCRETE TO BE USED THROUGHOUT

IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE SLAB AS SHOWN ON STANDARD 840.00

STEPS, 12" ON CENTERS SHALL BE PROVIDED IN ACCORDANCE WITH STD. 840.66.

CONSTRUCT STRUCTURE BY FORMING.

REINFORCING STEEL CAN BE RELOCATED TO POSITION GRATE AND FRAME AS DIRECTED BY THE ENGINEER.

NO DEDUCTIONS HAVE BEEN MADE FOR PIPE OPENINGS



A circular professional engineer seal for Patrick M. Hartnett, North Carolina. The seal features the text "NORTH CAROLINA" at the top, "PROFESSIONAL" on the left, "SEAL" in the center, "053755" below the seal, "ENGINEER" on the right, and "PATRICK M. HARTNETT" at the bottom. The seal is surrounded by a decorative border of small dots.

DETAIL OF SPECIAL CATCH BASIN

ORIGINAL BY: _____	DATE: _____
MODIFIED BY: <u>pmhartnett</u>	DATE: <u>10-31-23</u>
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

[illegible]

SUMMARY OF EARTHWORK IN CUBIC YARDS

DRAINAGE DITCH EXCAVATION = 21.6 C.Y.
ESTIMATED UNDERCUT EXCAVATION = 900 C.Y.
ESTIMATED SHALLOW UNDERCUT = 100 C.Y.

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR "GRADING".

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
LT -L- STA. 12 + 50.00 TO 18 + 50.00	848		49		799
RT -L- STA. 12 + 50.00 TO 53 + 00.00	2,561		5,370	2,809	
-Y1- STA. 11 + 00.00 TO 17 + 00.00	1,456		224		1,232
-DR1- STA. 10 + 25.00 TO 11 + 00.00	96				96
SUBTOTAL:	4,961		5,644	2,809	2,126
LT -L- STA. 19 + 50.00 TO 48 + 50.00	332		7,071	6,739	
-Y1A- STA. 10 + 50.00 TO 12 + 25.00	107		43		64
-Y2- STA. 13 + 00.00 TO 14 + 50.00	100		122	22	
-Y3- STA. 10 + 50.00 TO 12 + 00.00	17		436	419	
-Y3A- STA. 13 + 00.00 TO 14 + 50.00	100		151	51	
-DR2- STA. 10 + 25.00 TO 11 + 70.00					
SUBTOTAL:	656		7,824	7,232	64
MED -L- STA. 21 + 50.00 TO 53 + 00.00	276		4,057	3,781	
SUBTOTAL:	276		4,057	3,781	
SHEET TOTALS	5,893		17,525	13,822	2,190
LOSS DUE TO CLEARING AND GRUBBING	-50			50	
MATERIAL FOR SHOULDER CONSTRUCTION			1,104	1,104	
EARTH WASTE IN LIEU OF BORROW				-2,190	-2,190
PROJECT TOTALS	5,843		18,629	12,786	
5% TO REPLACE TOP SOIL				639	
GRAND TOTALS	5,843			13,425	
SAY	5,850			13,430	

ESTIMATED 1,100 CY OF UNCLASSIFIED EXCAVATION PER GEOTECH RECOMMENDATION ACCEPTABLE BUT NOT TO BE USED IN THE TOP 3 FT OF EMBANKMENT OR BACKFILL, -L- STA 25+75 TO 27+75.
SELECT GRANULAR MATERIAL (CONTINGENCY) = 800 CY (PER GEOTECH RECOMMENDATION - 6/19/24)

SUMMARY OF ASPHALT PAVEMENT REMOVAL

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ¹
-L-	19 + 50	21 + 41	LT	469.48
-L-	22 + 01	24 + 30	LT	5.41
-L-	27 + 57	28 + 19	LT	2.51
-L-	45 + 52	46 + 86	LT	16.56
-L-	44 + 48	52 + 92	CL	1,622.57
-Y1-	12 + 78	15 + 62	LT	489.59
-Y2-	14 + 00	14 + 29	RT	3.30
-Y2-	14 + 10	14 + 55	LT	14.77
-Y3-	10 + 48	12 + 14	LT	306.50
			TOTAL:	2,930.70
			SAY:	2940

8"x18" CURB SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RV/CL	LF
-L-	-Y1A- 12 + 10.00	21 + 49.15	LT	170
			TOTAL:	170
			SAY:	170

MILLING VARIABLE DEPTH

SURVEY LINE	STATION	STATION	SF/SY
-L-	10 + 75.00	10 + 80.00	111.67
-L-	12 + 65.00	13 + 80.00	2,522.80
-L-	15 + 60.00	17 + 90.00	5,335.14
-L-	31 + 90.00	32 + 90.00	2,302.80
-L-	52 + 70.00	53 + 39.00	5,455.04
		TOTAL(SF):	15,727.45
		TOTAL(SY):	1,747.49
		SAY(SY):	1,750

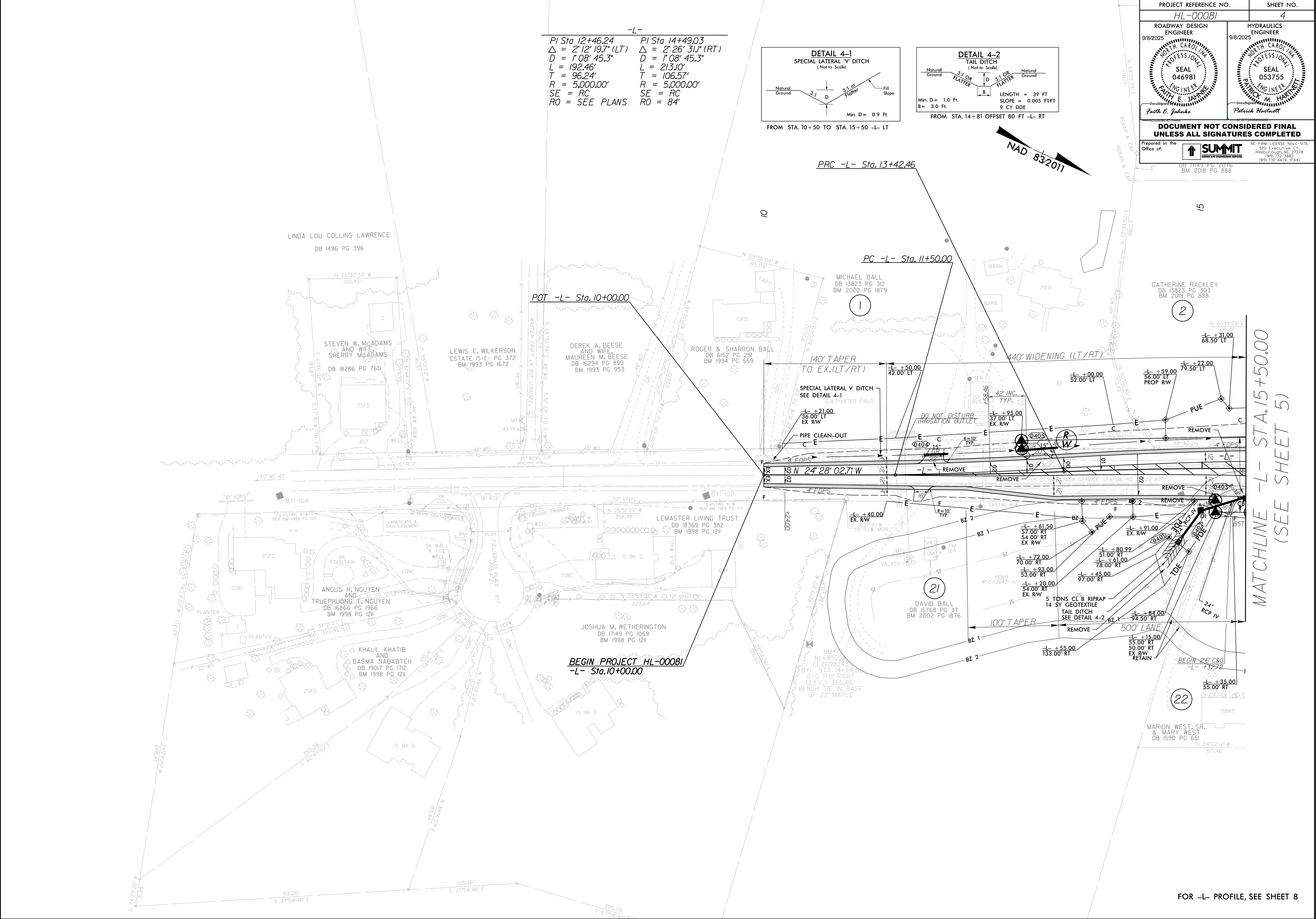
COMPUTED BY: HDP DATE: 7/9/2024		(2-3-23)				PROJECT NO.		SHEET NO.							
CHECKED BY: MBL DATE: 7/9/2024						HL-0008I		3G-1							
STATE OF NORTH CAROLINA															
DIVISION OF HIGHWAYS															
SUMMARY OF SUBSURFACE DRAINAGE						SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION									
LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF	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				SD	300										
				TOTAL LF:	300	CONTINGENCY					100	200	300		200
									TOTAL CY/TONS/SY:		100	200**	300**	0	200
						*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-	1.5:1	49+25	1.5:1	53+00	LT	1		700							
							TOTAL SY:	700							
									*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.						

[illegible][illegible][illegible][illegible][illegible]

8/17/99

REVISIONS

07 SEP 2025 09:17
D:\2008\proj\plan-4.dgn
zoe.zoe

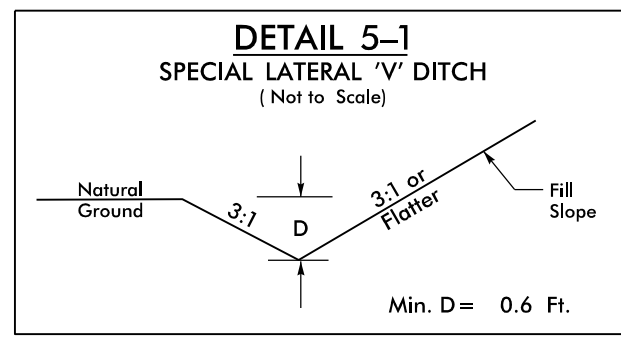


PROJECT REFERENCE NO. HL-00081		SHEET NO. 4	
ROADWAY DESIGN ENGINEER 9/8/2025 SEAL 046981 PAITH E. JAHNKE		HYDRAULICS ENGINEER 9/8/2025 SEAL 053755 PATRICK M. HARNETT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES		NC FIRM LICENSE No. C-5976 220 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	

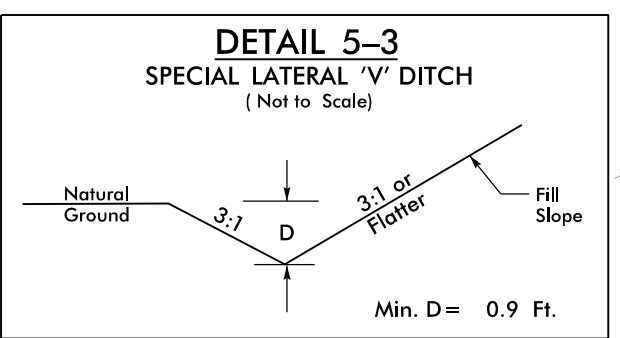
8/17/2019

CATHERINE RACKLEY
DB 13823 PG 303
BM 2018 PG 888

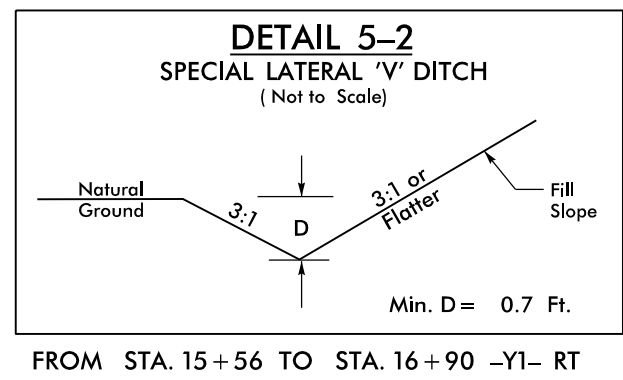
BEGIN CONSTRUCTION
-YI- Sta.10+50.00



FROM STA. 10+50 TO STA. 13+50 -YI- LT
FROM STA. 10+50 TO STA. 15+44 -YI- RT



FROM STA. 15+50 TO STA. 18+00 -L- LT



PC -YI- Sta.10+00.00
PT -YI- Sta.11+33.42

PI Sta.10+65.04
 $\Delta = 77^{\circ} 48' 25.0''$ (LT)
 $D = 114' 35'' 29.6'$
 $L = 67.90'$
 $T = 40.35'$
 $R = 50.00'$

-DRI-
PI Sta.11+37.19
 $\Delta = 83^{\circ} 27' 46.4''$ (RT)
 $D = 114' 35'' 29.6'$
 $L = 72.84'$
 $T = 44.60'$
 $R = 50.00'$

PI Sta.10+66.71
 $\Delta = 0^{\circ} 08' 11.2''$ (LT)
 $D = 0^{\circ} 06' 08.1''$
 $L = 133.42'$
 $T = 66.71'$
 $R = 56,028.76'$

-YI-
PI Sta.14+08.21
 $\Delta = 25^{\circ} 25' 08.0''$ (RT)
 $D = 7^{\circ} 32' 20.1''$
 $L = 337.17'$
 $T = 171.40'$
 $R = 760.00'$
SE = 06
RO = SEE PLANS
DS = 45 MPH

PI Sta.10+69.79
 $\Delta = 66^{\circ} 01' 49.1''$ (RT)
 $D = 71' 37'' 11.0'$
 $L = 92.20'$
 $T = 51.98'$
 $R = 80.00'$

-YIA-
PI Sta.11+61.54
 $\Delta = 10^{\circ} 17' 04.6''$ (LT)
 $D = 10^{\circ} 00' 22.3''$
 $L = 102.78'$
 $T = 51.53'$
 $R = 572.60'$

PI Sta.12+21.73
 $\Delta = 6^{\circ} 06' 42.8''$ (LT)
 $D = 34' 12'' 23.2'$
 $L = 17.87'$
 $T = 8.94'$
 $R = 167.50'$

TIMOTHY & ROBERT BRYAN
DB 15205 PG 102
BM 2002 PG 1878

POT -YIA- Sta.10+00.00
POT -YI- Sta.15+50.00
POT -DRI- Sta.11+25.00

PC -YIA- Sta.10+17.81
PT -YI- Sta.15+73.97

PC -YIA- Sta.12+12.79
PT -YIA- Sta.12+30.66

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
-DRI- Sta.10+23.00
PT -DRI- Sta.10+00.00
N 18° 27' 52.4" W AHD

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

440' WIDENING
(LT/RT)

PRC -YIA- Sta.11+10.01
-DR3- POT Sta.10+00.00
N 74° 09' 54.3" E (AH)
-L- POC Sta.18+78.04

PCC -YIA- Sta.12+12.79
PT -YIA- Sta.12+30.66

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

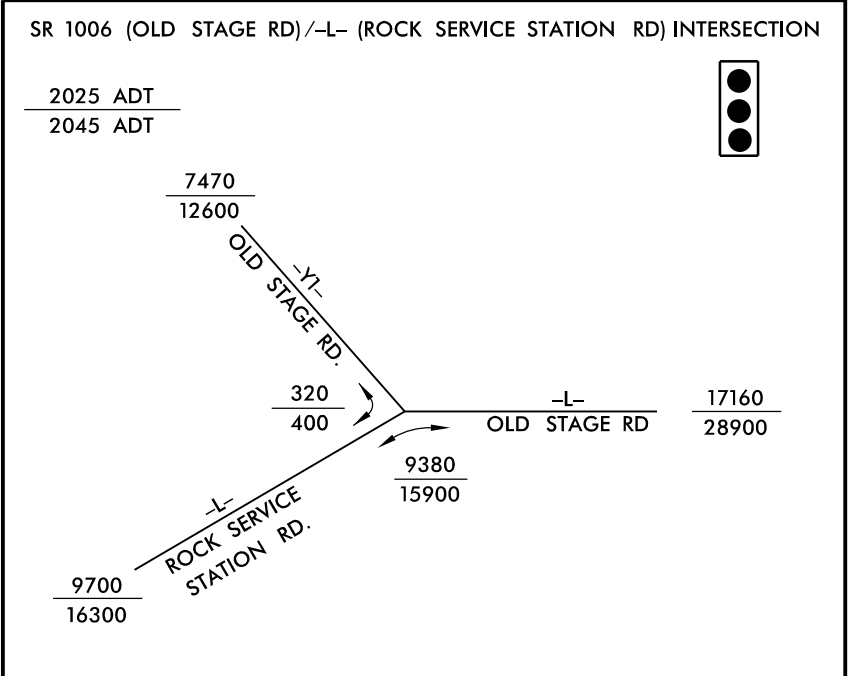
END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

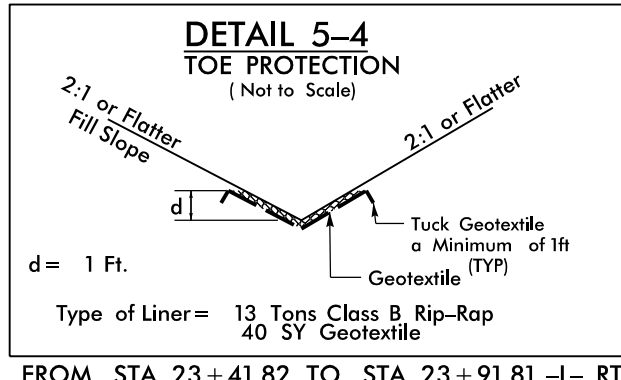
END RESURFACING
-L- Sta.20+46.00

END CONSTRUCTION
END GRADE
-YIA- Sta.12+25.00

PROJECT REFERENCE NO. HL-00081		SHEET NO. 5	
ROADWAY DESIGN ENGINEER 9/8/2025		HYDRAULICS ENGINEER 9/8/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: 		NC FIRM LICENSE NO. C-5976 220 Executive Ct. Hillsborough, NC 27278 (919) 732-3863 (919) 732-6676 (FAX)	



MATCHLINE -L- STA.27+00.00
(SEE SHEET 6)



FORREST & MARSHA BALL
DB 7806 PG 504
BM 2016 PG 1645

★ PROPOSED SIGNAL
PAYMENT
REMOVAL
FOR -L- PROFILE, SEE SHEET 8
FOR -YI- & -YIA- PROFILE, SEE SHEET 10
FOR -DRI- & -DR3- PROFILE, SEE SHEET 11
FOR INTERSECTION DETAILS SEE SHEET 2B-1

REVISIONS

07 SEP 2025 09:17
07-20081-03-1-5.dgn
zoe.zack

PROJECT REFERENCE NO.
HL-00081

ROADWAY DESIGN
ENGINEER
9/8/2025

HYDRAULICS
ENGINEER
9/8/2025

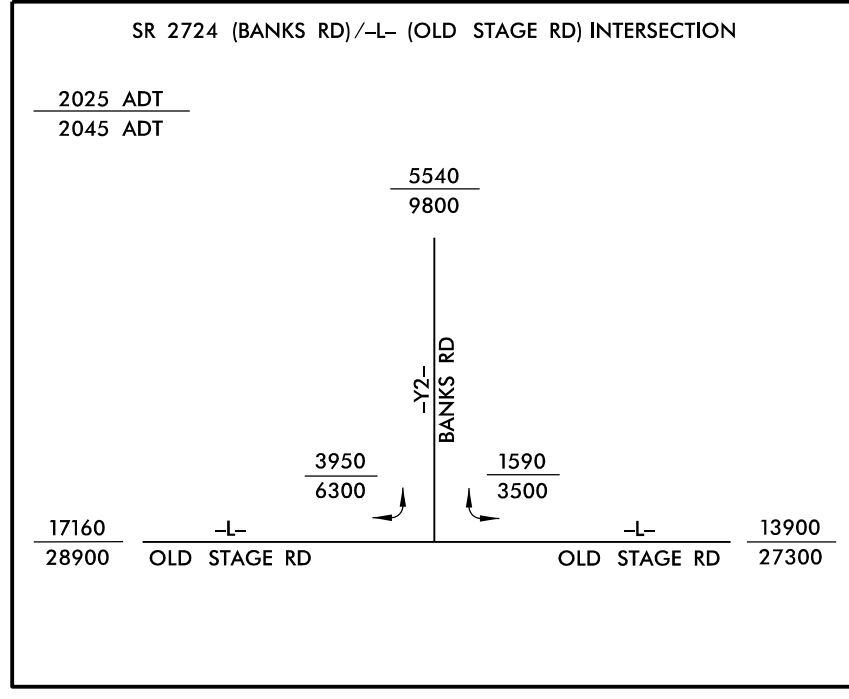
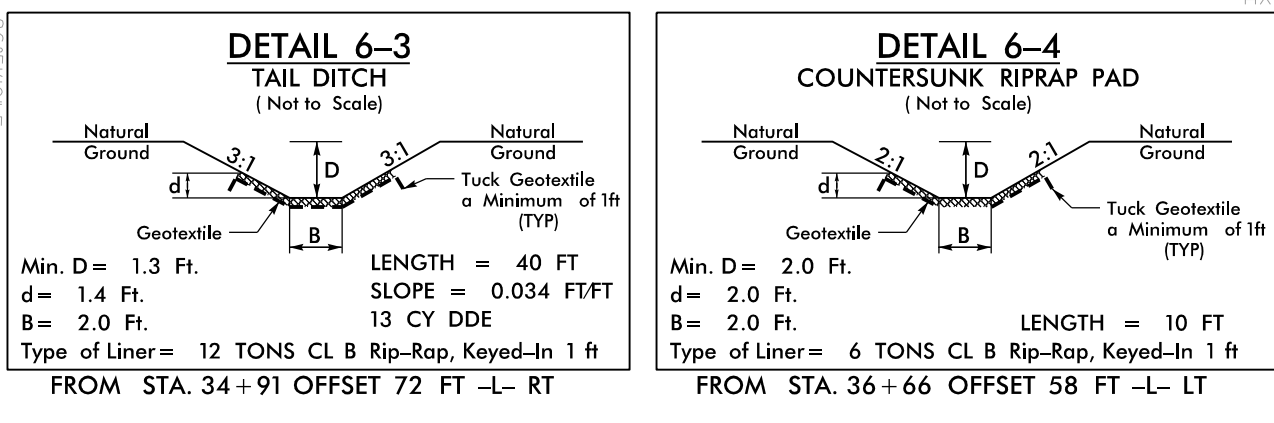
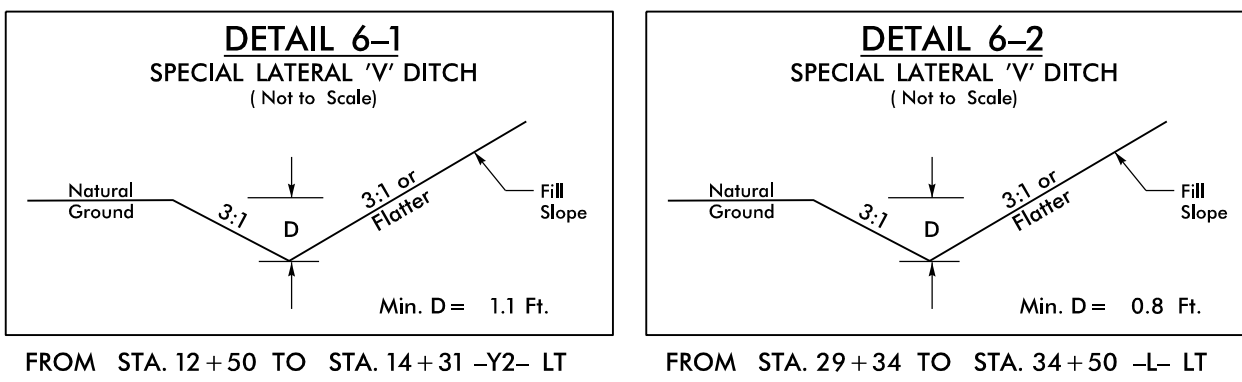
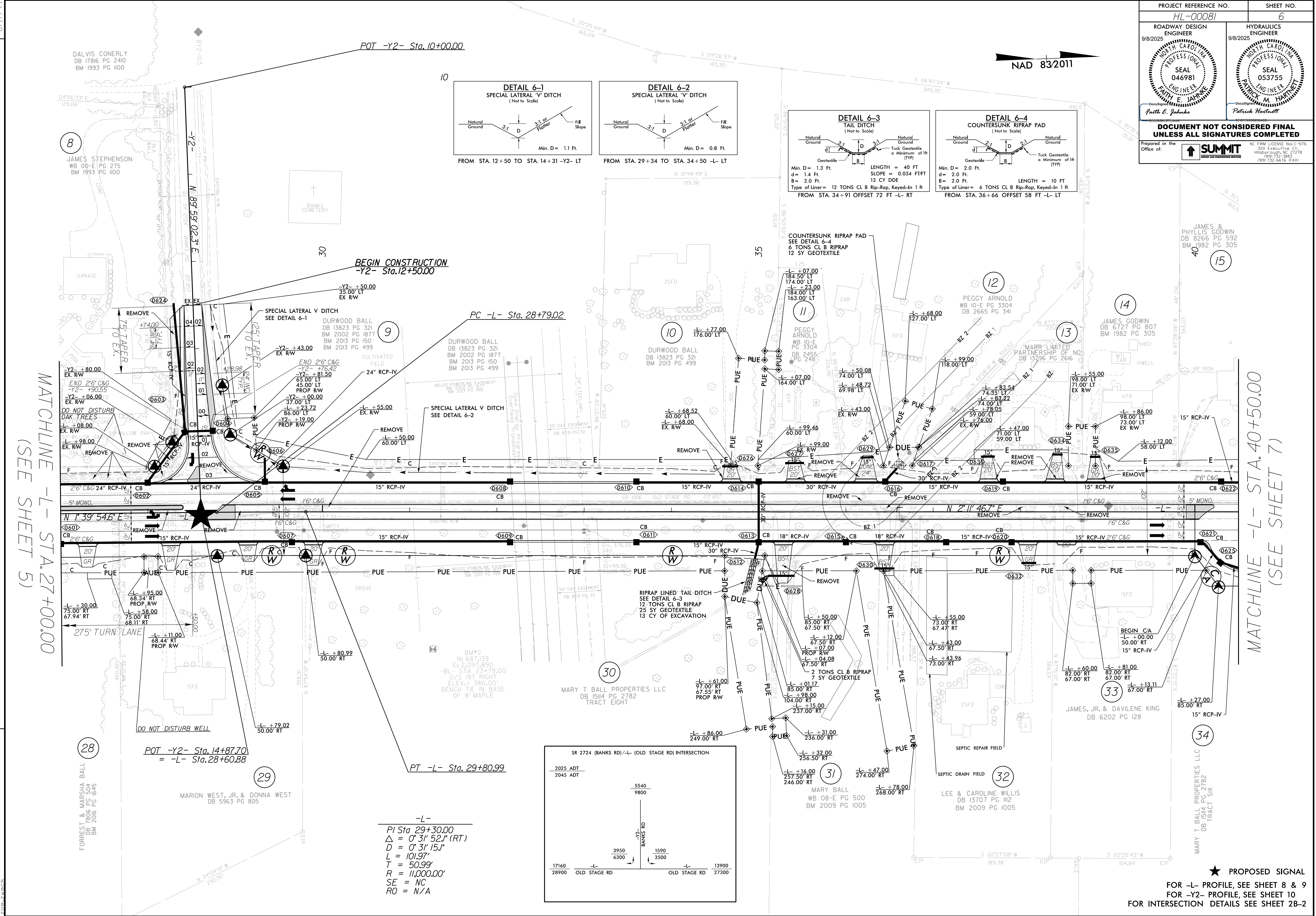
SEAL
046981
ENGINEER
PAUL E. JAHNKE

SEAL
053755
ENGINEER
PATRICK M. HARNETT

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared in the
Office of:
SUMMIT
DESIGN AND ENGINEERING SERVICES

NC FIRM LICENSE No. C-5976
220 Executive Ct.
Hillsborough, NC 27278
(919) 732-3863
(919) 732-6676 (FAX)



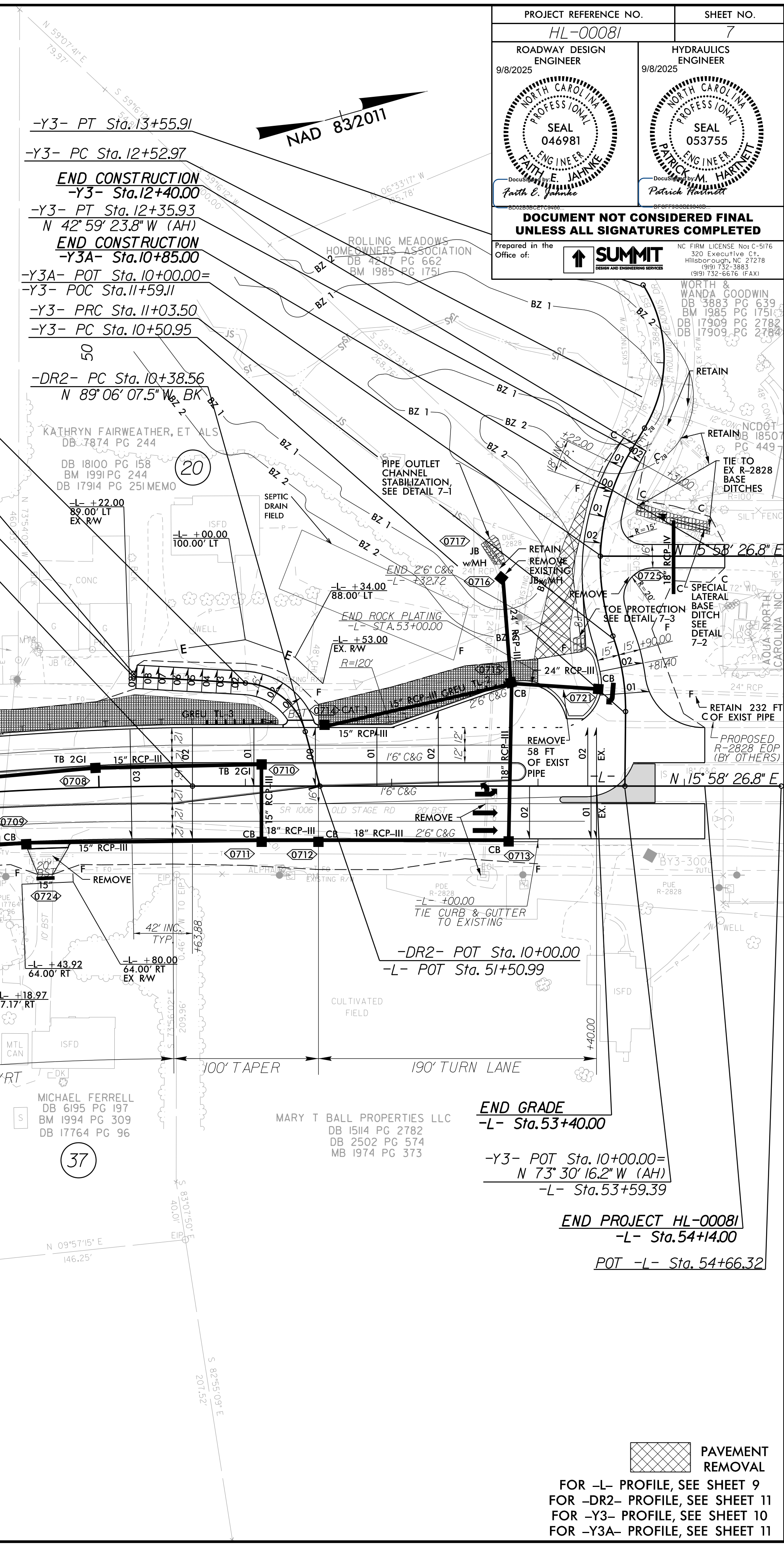
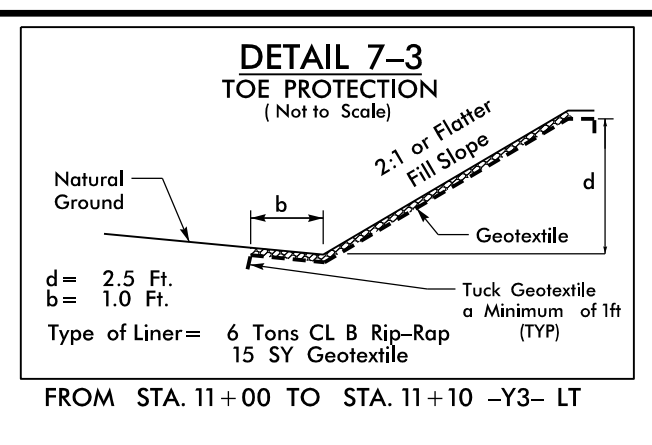
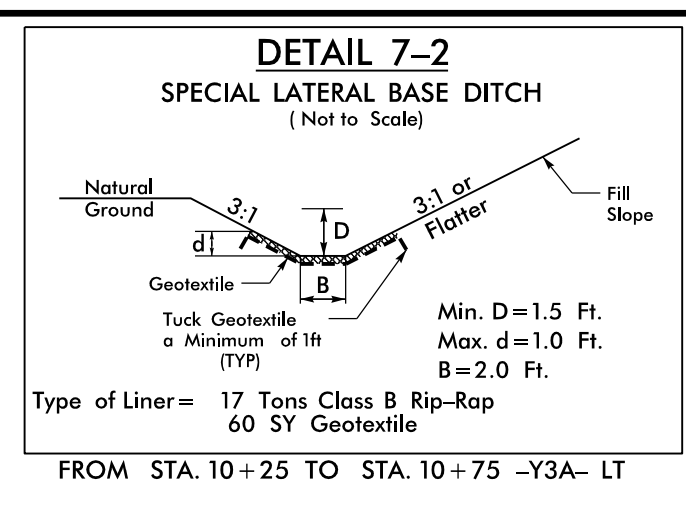
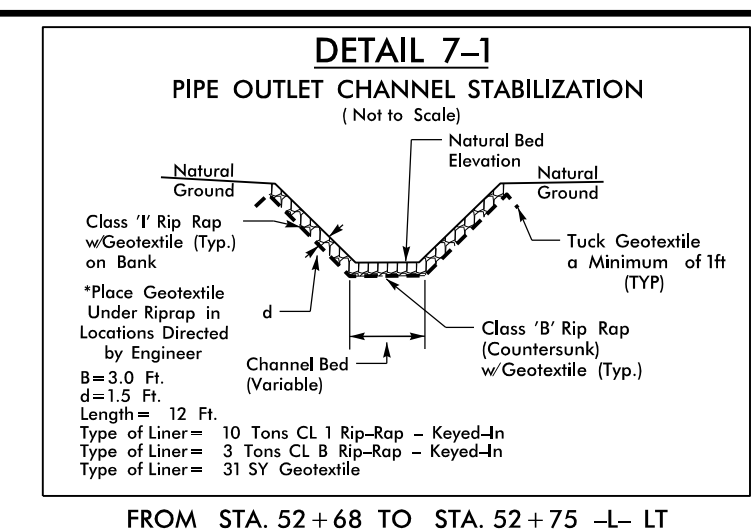
-L-
PI Sta 29+30.00
Δ = 0° 31' 52.1" (RT)
D = 0° 31' 15.1"
L = 101.97'
T = 50.99'
R = 11,000.00'
SE = NC
RO = N/A

★ PROPOSED SIGNAL
FOR -L- PROFILE, SEE SHEET 8 & 9
FOR -Y2- PROFILE, SEE SHEET 10
FOR INTERSECTION DETAILS SEE SHEET 2B-2

8.17/799

-L-	-DR2-
PI Sta 47+88.68 $\Delta = 13^{\circ} 46' 40.1''$ (RT) $D = 2^{\circ} 29' 28.0''$ $L = 553.08'$ $T = 277.88'$ $R = 2,300.00'$ $SE = 03$ $RO = 126'$	PI Sta 10+71.08 $\Delta = 71^{\circ} 42' 11.4''$ (LT) $D = 127^{\circ} 19' 26.2''$ $L = 56.32'$ $T = 32.52'$ $R = 45.00'$

-Y3-	-Y3-	-Y3-
PI Sta 10+77.50 $\Delta = 20^{\circ} 04' 19.6''$ (LT) $D = 38^{\circ} 11' 49.9''$ $L = 52.55'$ $T = 26.55'$ $R = 150.00'$ $SE = 02$ $RO = \text{SEE PLANS}$	PI Sta 11+74.38 $\Delta = 50^{\circ} 35' 12.0''$ (RT) $D = 38^{\circ} 11' 49.9''$ $L = 132.44'$ $T = 70.88'$ $R = 150.00'$ $SE = 02$ $RO = 36'$	PI Sta 13+10.38 $\Delta = 63^{\circ} 12' 10.0''$ (LT) $D = 61^{\circ} 23' 53.1''$ $L = 102.94'$ $T = 57.41'$ $R = 93.32'$



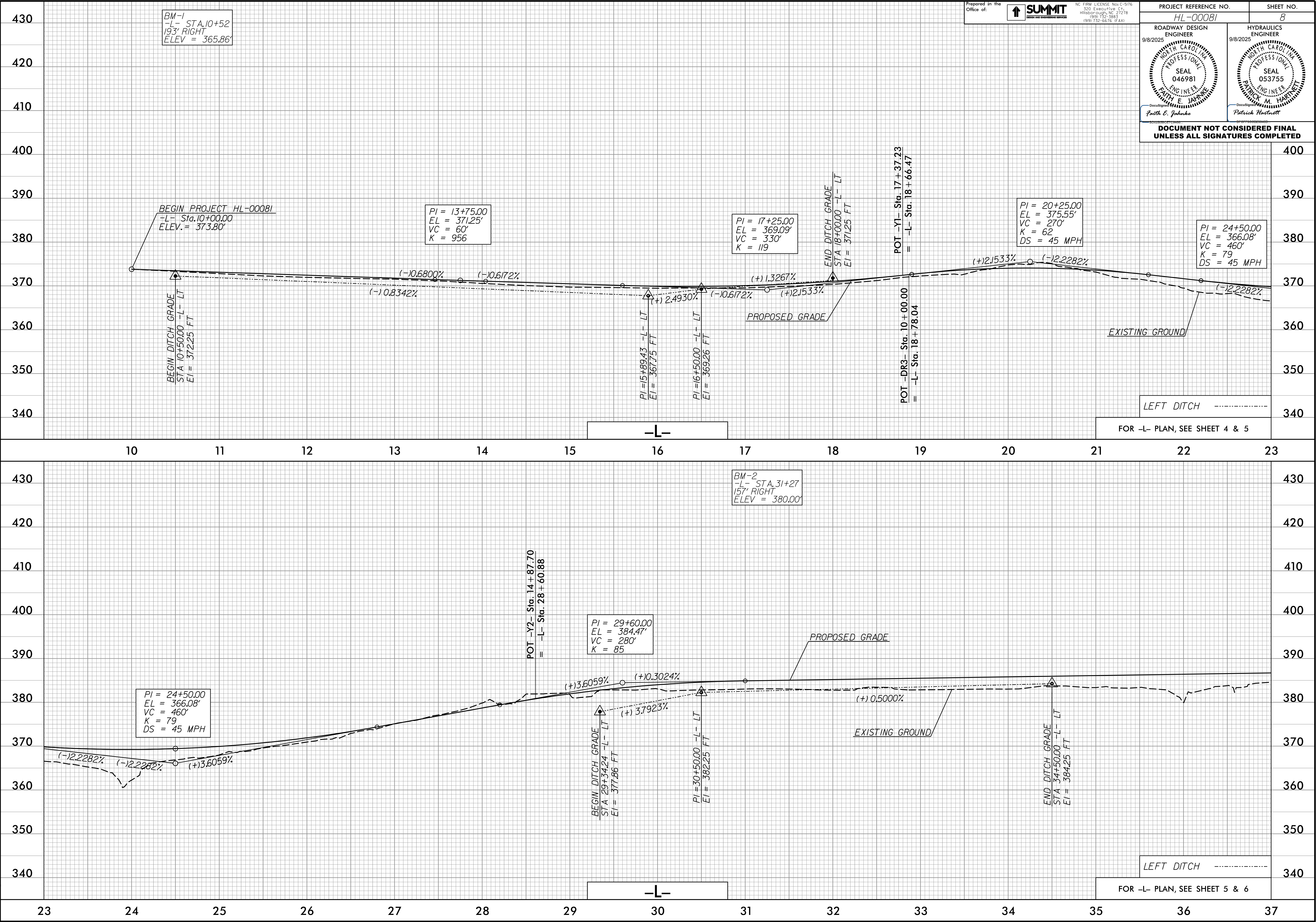
PROJECT REFERENCE NO.		SHEET NO.	
HL-00081		7	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
9/8/2025		9/8/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		NC FIRM LICENSE No. C-5976	
		220 Executive Ct. Hillsborough, NC 27828 (919) 732-3863 (919) 732-6876 (FAX)	

REVISIONS

MATCHLINE -L- STA. 40+50.00
(SEE SHEET 6)

07 SEP 2025 09:18
D:\2008\proj\psh-7.dgn
zoe.zoe

PAVEMENT REMOVAL
FOR -L- PROFILE, SEE SHEET 9
FOR -DR2- PROFILE, SEE SHEET 11
FOR -Y3- PROFILE, SEE SHEET 10
FOR -Y3A- PROFILE, SEE SHEET 11

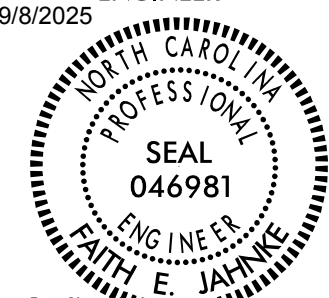


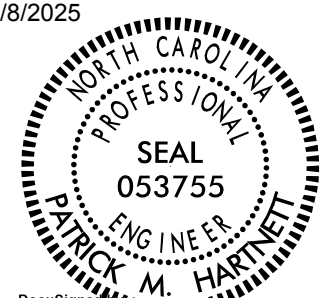
Prepared in the Office of:


NC FIRM LICENSE No: C-5176
320 Executive Ct.
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

PROJECT REFERENCE NO.
HL-00081

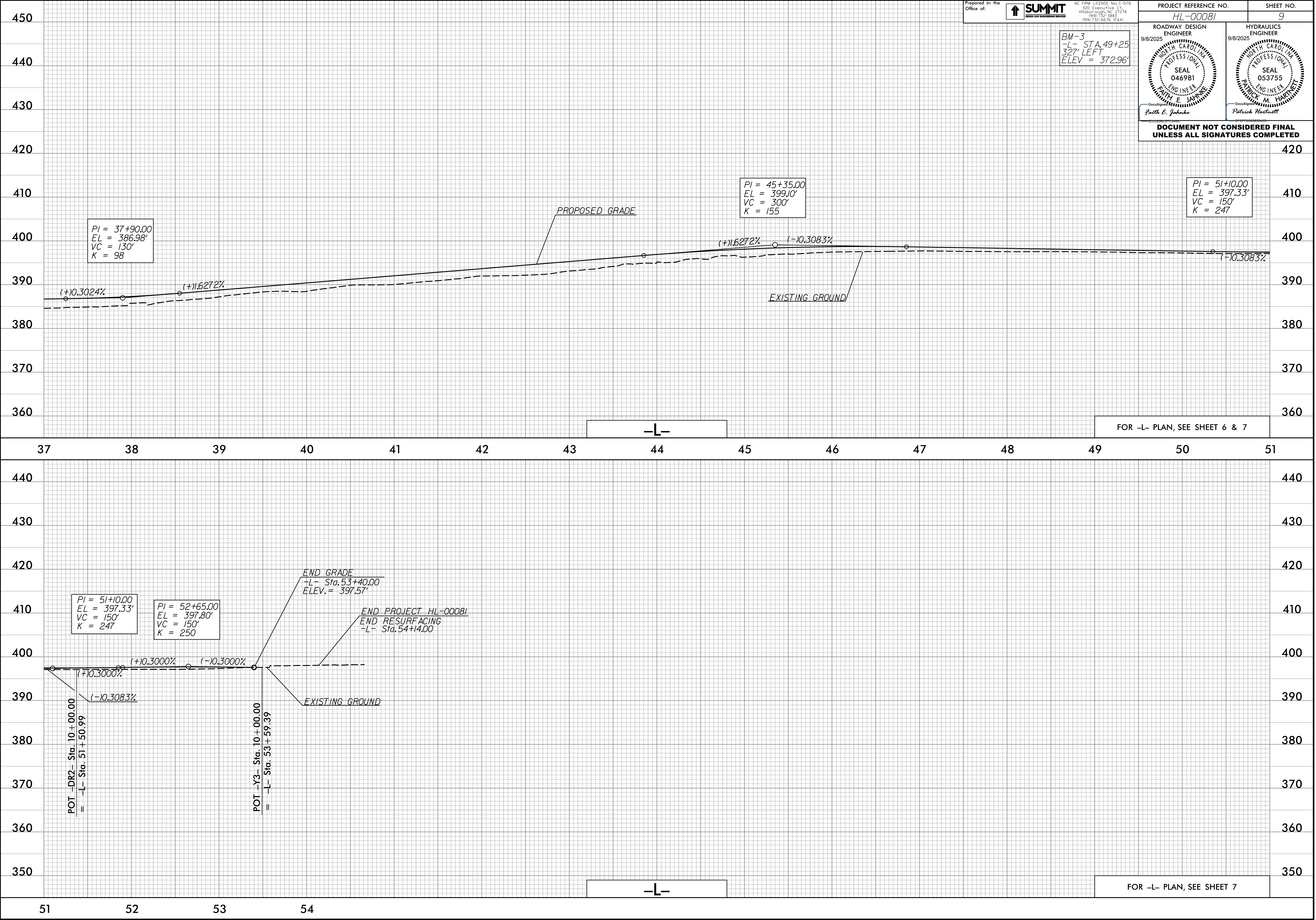
SHEET NO.
8

ROADWAY DESIGN ENGINEER
9/8/2025

Faith E. Jahnke

HYDRAULICS ENGINEER
9/8/2025

Patrick M. Harnett

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

07-AUG-2025 15:17
DT-20080830.dwg
devonboule



Prepared in the Office of:

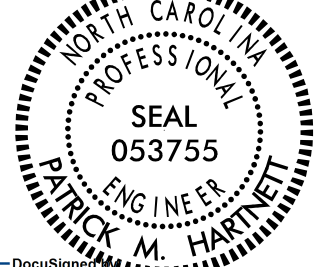
NO. FIRM LICENSE No. C-5176
320 Executive Ct.
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

BM-3
-L- STA. 49+25
327' LEFT
ELEV = 372.96'

PROJECT REFERENCE NO.
HL-00081

ROADWAY DESIGN ENGINEER
9/8/2025

Faith E. Jahnke

HYDRAULICS ENGINEER
9/8/2025

Patrick Harnett

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

07-AUG-2025 15:17
D:\00081\00081-01\psh_9.dgn
devonboule

Prepared in the Office of:		SUMMIT DESIGN AND ENGINEERING SERVICES	NC FIRM LICENSE No: C-5176 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	PROJECT REFERENCE NO.	SHEET NO.
				<i>HL-00081</i>	<i>10</i>
		ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
		9/8/2025		9/8/2025	
		DocuSigned by <i>Faith E. Jahnke</i>		DocuSigned by <i>Patrick Hartnett</i>	
		SDC125000CT-C-0005		DP-SH-9000000000000000	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					

