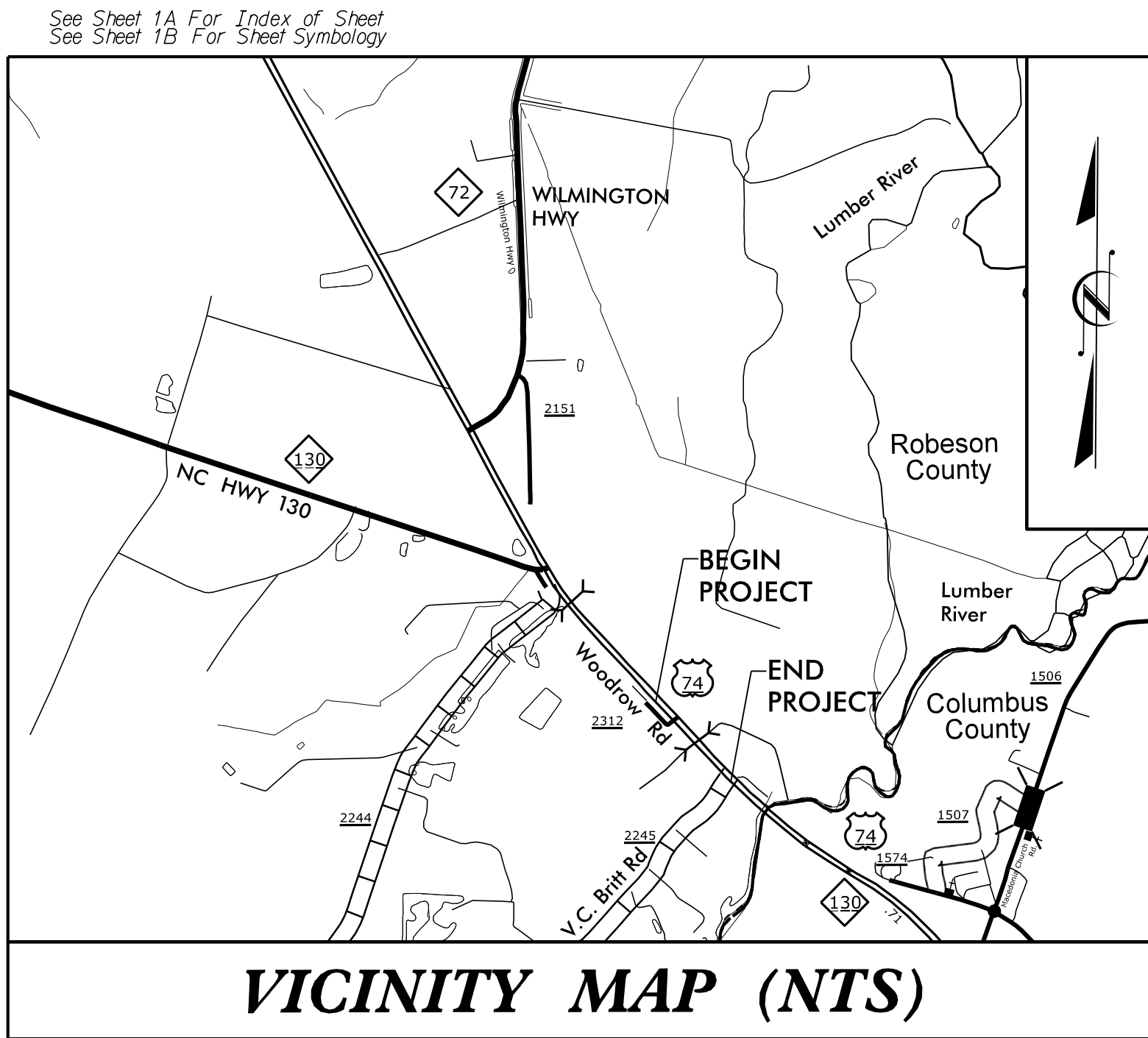


09/08/99

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TIP PROJECT: HO-0021

CONTRACT: DF00562

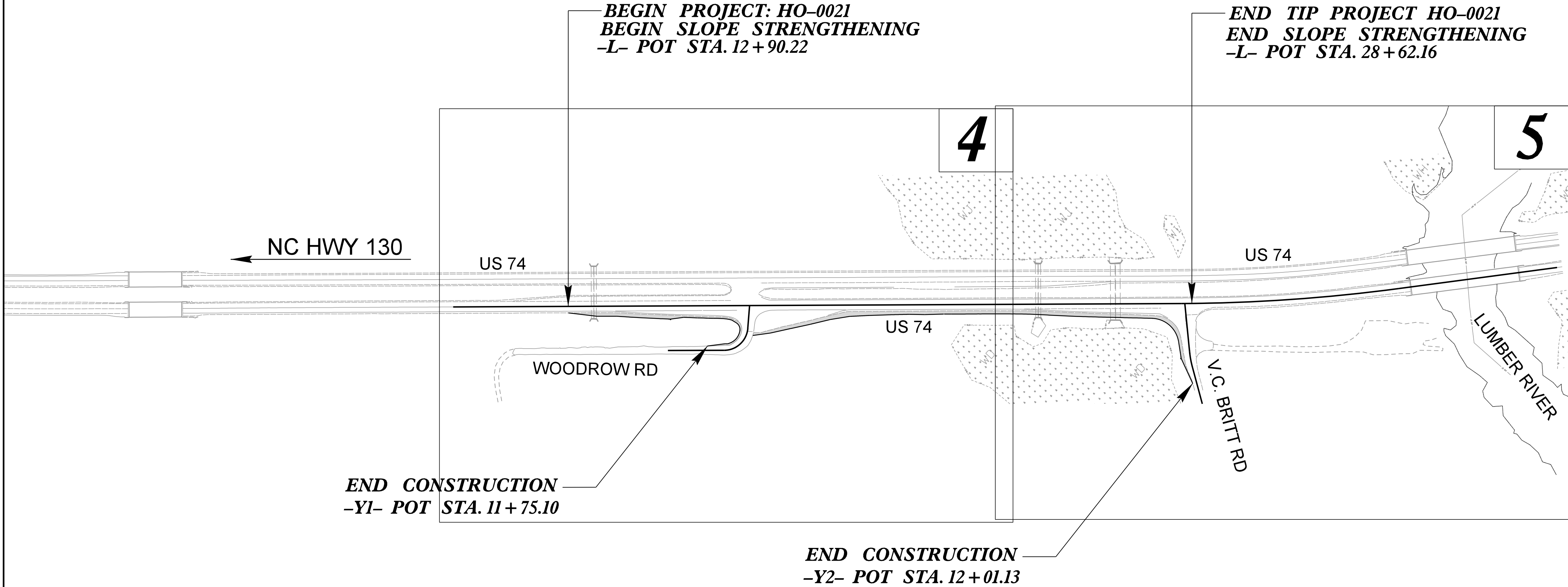
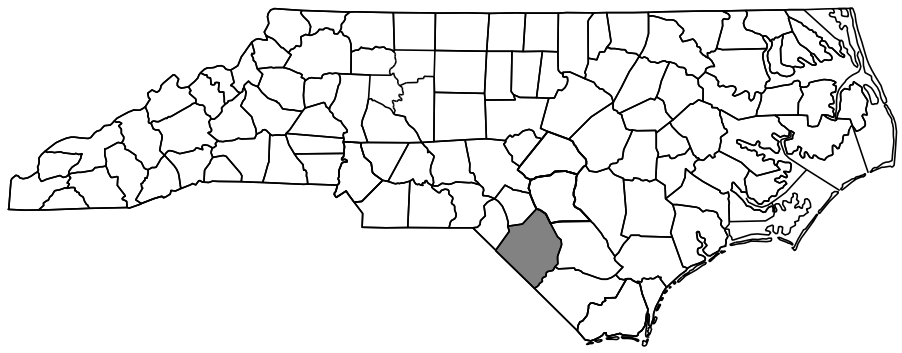


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON COUNTY

DESCRIPTION: PROTECTING US 74 AT THE LUMBER RIVER. US 74 (FUTURE I-74) NEAR BRIDGES 770466 AND 770118 OVER THE LUMBER RIVER.

TYPE OF WORK: PAVING, REINFORCE SHOULDERS AND EMBANKMENTS



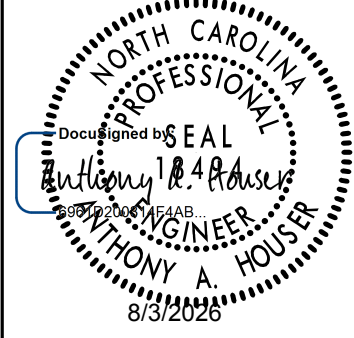
OLD BOARDMAN RD

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES 50 25 0 50 100 PLANS 50 25 0 50 100 PROFILE (HORIZONTAL) 10 5 0 10 20 PROFILE (VERTICAL)	DESIGN DATA ADT 2025 = NA ADT 2045 = NA K = NA D = NA T = NA V = 60 MPH FUNC CLASS: INTERSTATE * (TIST NA + DUALS NA)	PROJECT LENGTH LENGTH ROADWAY TIP PROJECT HO-0021.....0.298 MILES LENGTH STRUCTURE TIP PROJECT HO-0021.....0.00 MILES TOTAL LENGTH TIP PROJECT HO-0021.....0.298 MILES NCDOT CONTACT CRAIG A.FREEMAN JR., PE, CPM	PLANS PREPARED BY: RK&K RUNWEL KLEPPER & KAHL, LLP 8601 SIX FORKS ROAD, FORUM 1, SUITE 700 RALEIGH, NORTH CAROLINA 27615-3960 NC LICENSE NO. F-0112 2024 STANDARD SPECIFICATIONS LETTING DATE: SEPTEMBER 16, 2026	HYDRAULICS ENGINEER ROADWAY DESIGN ENGINEER DOUG KELLER, PE PROJECT ENGINEER TONY HOUSER, PE PROJECT DESIGN ENGINEER	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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8/17/99

7/29/2026
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10:41:11 AM

PROJECT REFERENCE NO.	SHEET NO.
H0-0021	1A
	ROADWAY DESIGN ENGINEER
	
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EFF. 08-11-2025
REV. 11-26-2025
2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1 THRU 2C-2	ROADWAY DETAILS
2G-1 THRU 2G-2	GEOTECHNICAL DETAILS
3B-1 THRU 3B-2	ROADWAY SUMMARIES
4 THRU 5	PLAN SHEETS
TMP-1 THRU TMP-3	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
S&D-1 THRU S&D-3	SIGNAL AND DELINIATION PLANS
X-1A	CROSS SECTION SUMMARY SHEET
X-1 THRU X-5	CROSS-SECTIONS

- | STD.NO. | TITLE |
|--|---|
| DIVISION 2 - EARTHWORK | |
| 200.02 | Method of Clearing - Method II |
| DIVISION 5 - SUBGRADE, BASES AND SHOULDERS | |
| 560.01 | Method of Shoulder Construction - High Side of Superelevated Curve - Method I |
| 862.01 | Guardrail Placement |
| 862.02 | Guardrail Installation |

GENERAL NOTES: 2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

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 II.

SHOULDER CONSTRUCTION:

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

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.

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	

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

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

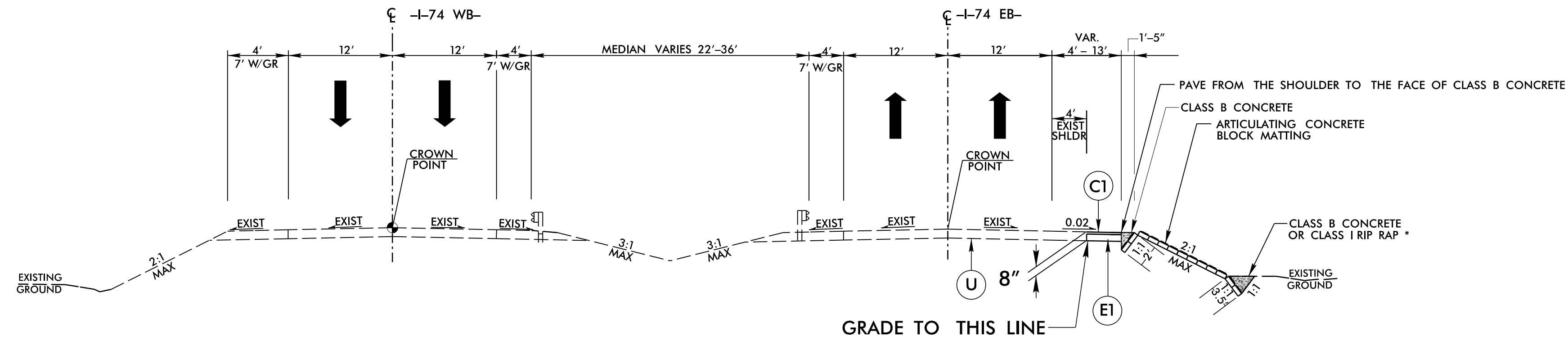
MISCELLANEOUS:	
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE - LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records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

8/17/99

FINAL PAVEMENT SCHEDULE

C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
U	EXISTING ROADWAY

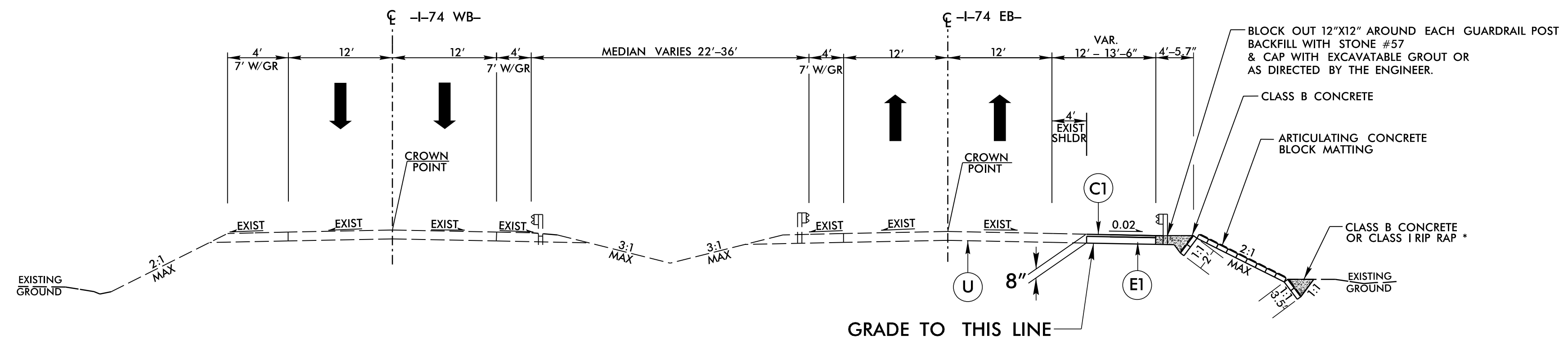
NOTE: SEE CROSS SECTIONS FOR SLOPES.



TYPICAL SECTION NO. 1

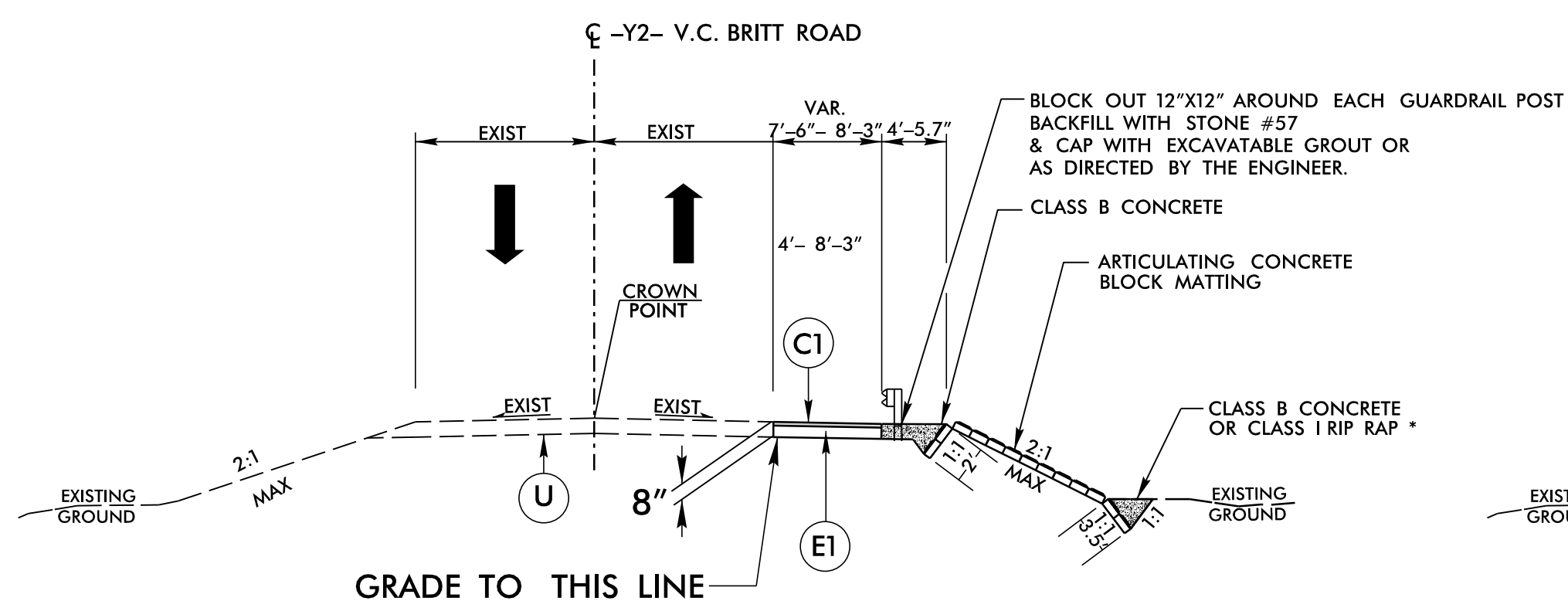
-L- STA. 12 + 90.22 TO 13 + 61.78
-L- STA. 15 + 47.76 TO 21 + 88.54

* USE CLASS I RIP RAP IN LIEU OF CLASS B CONCRETE AT LOCATIONS WHERE DEWATERING IS NOT PRACTICABLE.



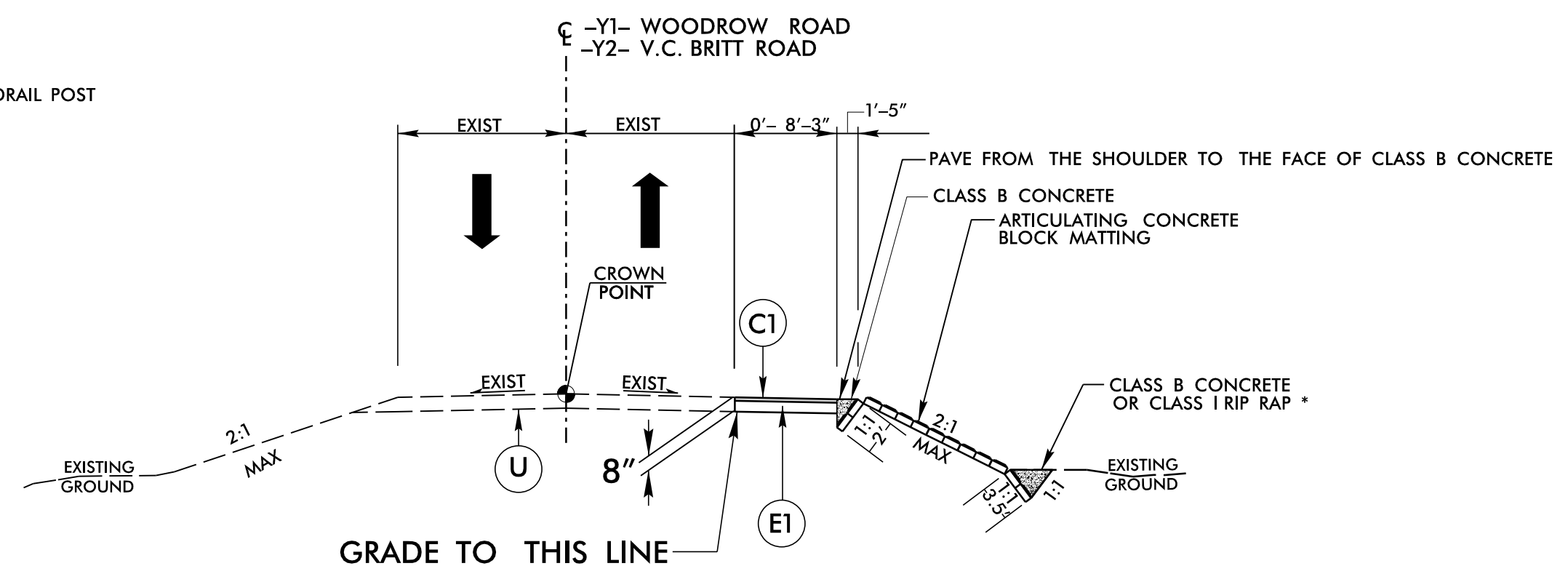
TYPICAL SECTION NO. 2

-L- STA. 13 + 61.78 TO 15 + 47.76
-L- STA. 21 + 88.54 TO 28 + 28.36



TYPICAL SECTION NO. 3

-Y2- STA. 10 + 94.58 TO 11 + 35.91

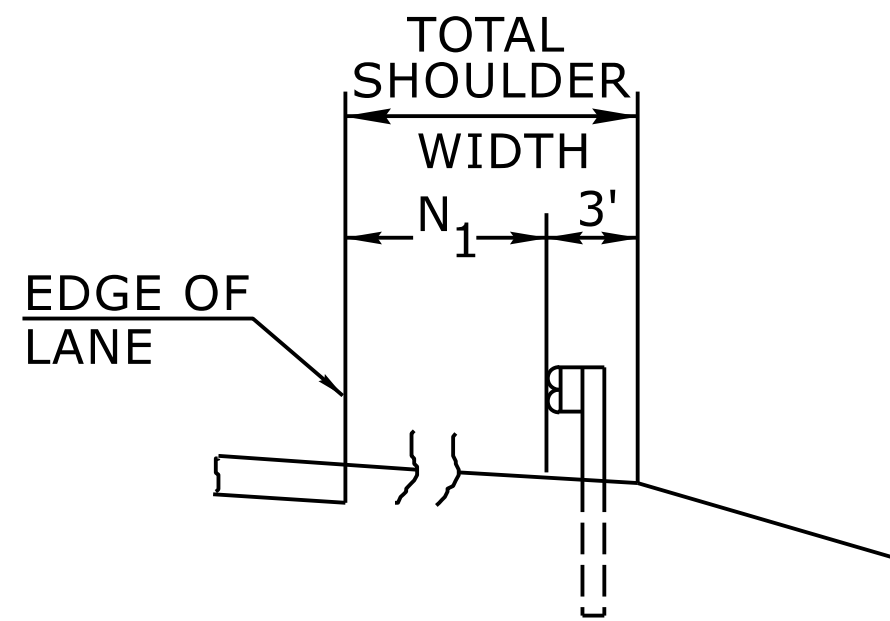


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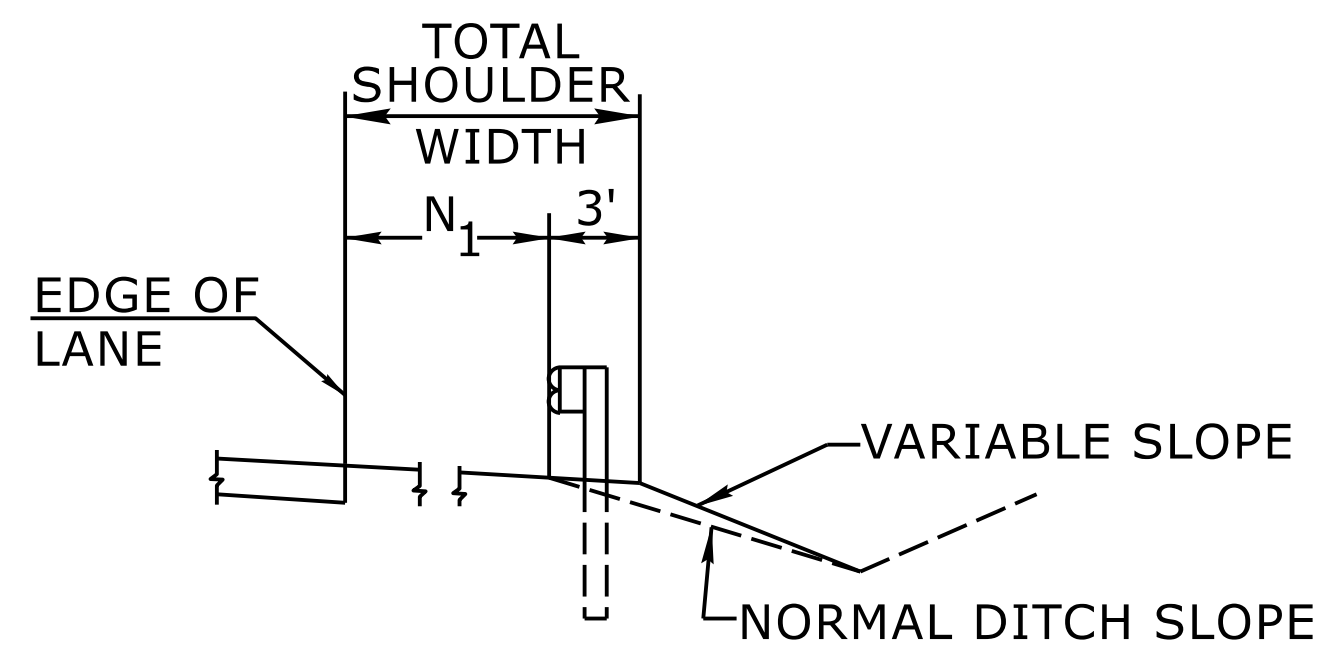
-Y1- STA. 10 + 80.88 TO 11 + 75.10
-Y2- STA. 11 + 35.91 TO 12 + 01.13

PROJECT REFERENCE NO.	SHEET NO.
H0-0021	2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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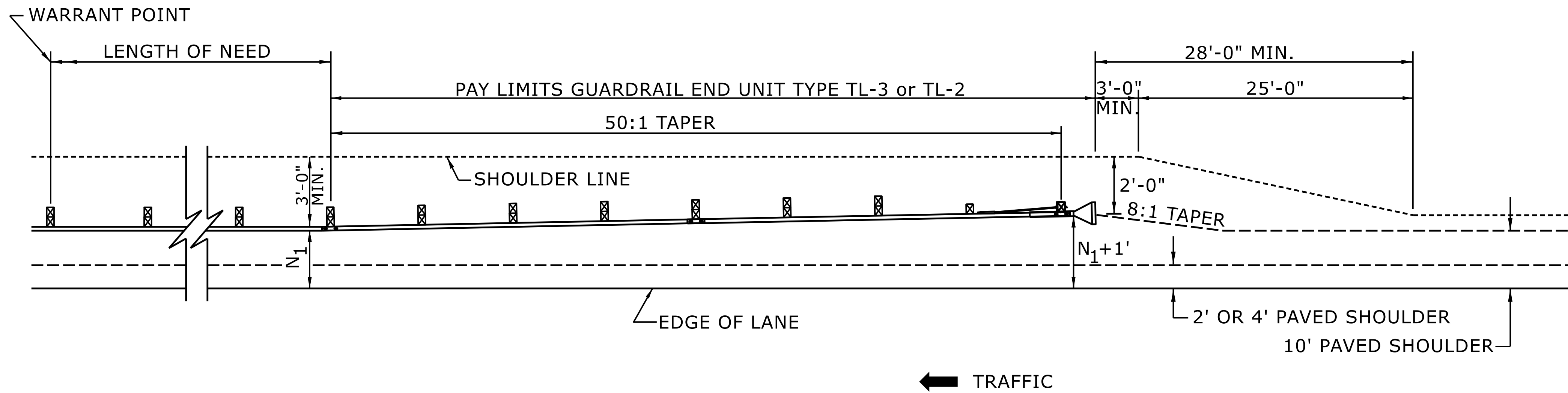


FILL SECTION



CUT SECTION

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

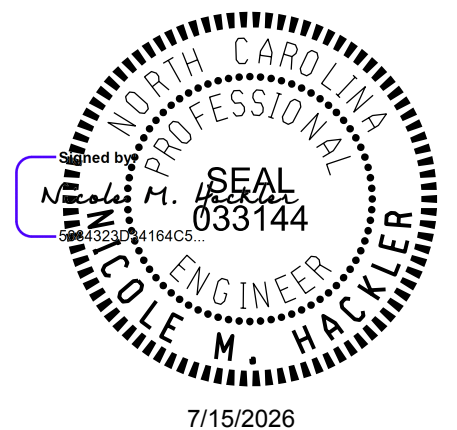


FOR POSTED SPEEDS $\geq$ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS $<$ 45mph USE GREU TYPE TL-2

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 6 OF 15
862D01



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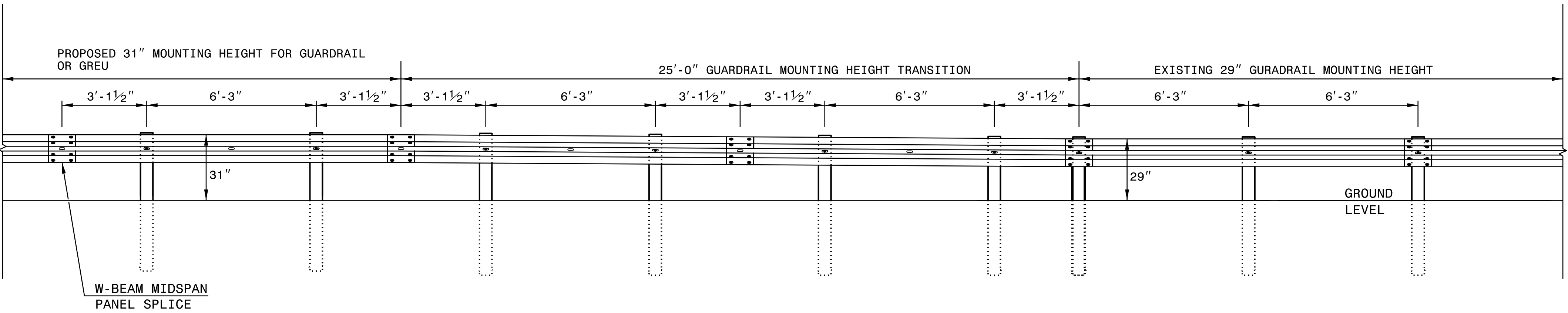
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

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:

NOTE: IF EXISTING GUARDRAIL IS LOWER THAN 29", USE AN ADDITIONAL 12'-6" LONG SECTION OF GUARDRAIL, FOR EVERY 1" OF HEIGHT DIFFERENCE, TO TRANSITION FROM EXISTING GUARDRAIL TO PROPOSED 31" GUARDRAIL.



ELEVATION VIEW

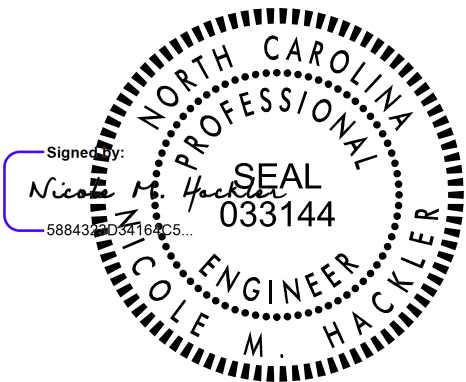
TRANSITION FROM 29" TO 31" W-BEAM GUARDRAIL MOUNTING HEIGHT

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

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 5 OF 9

862D02



7/15/2026

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CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

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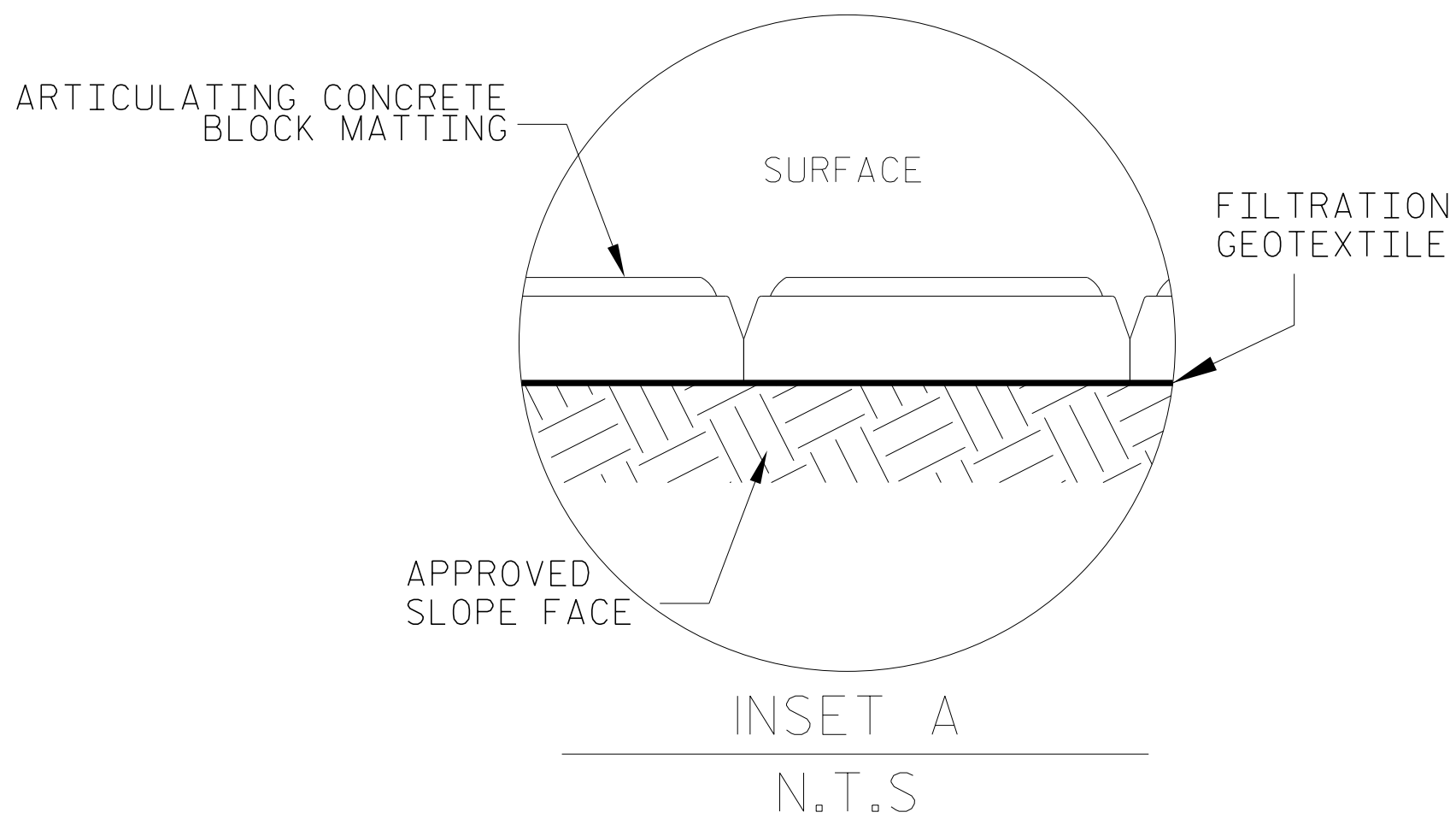
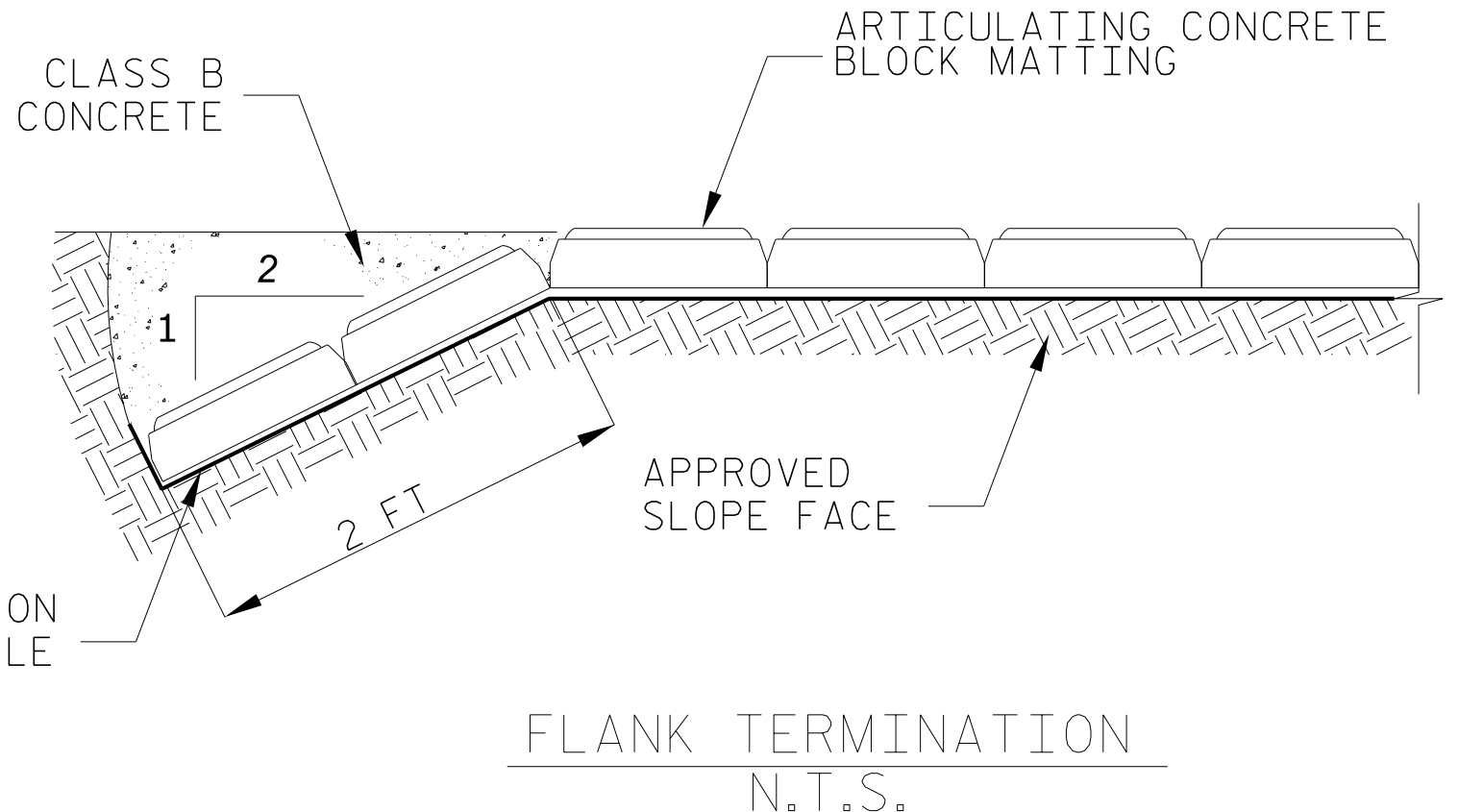
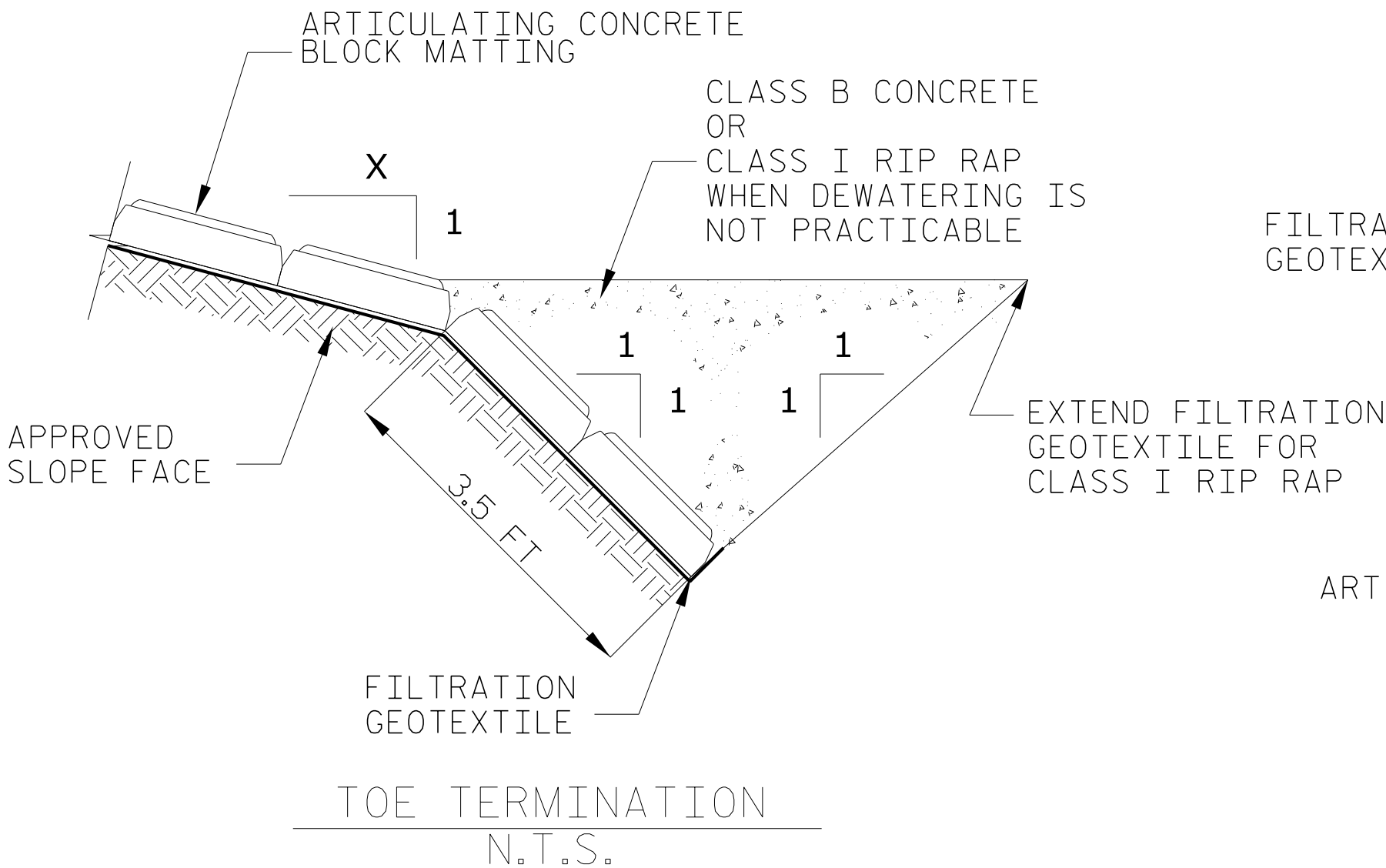
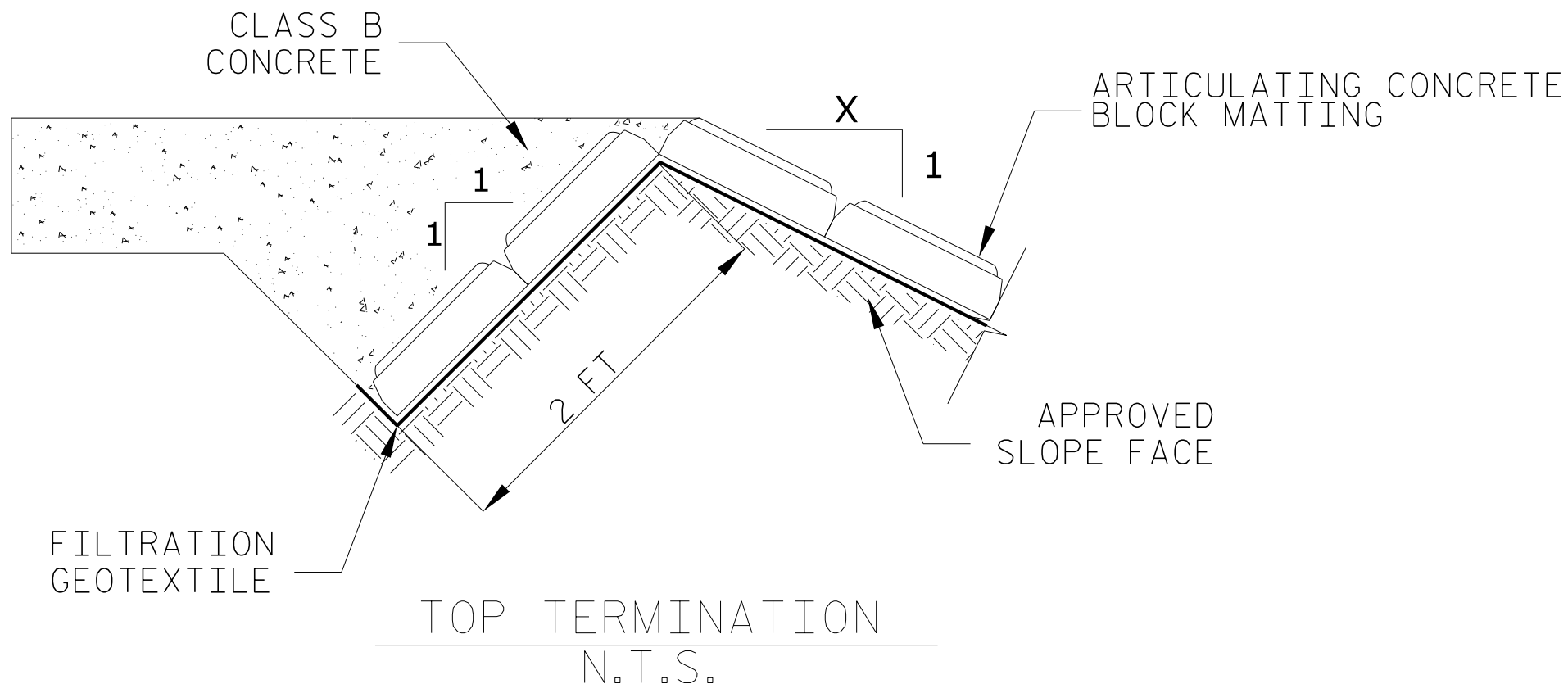
ORIGINAL BY: K. Aldridge	DATE: 02-25
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

NOTES:

1. SEE ROADWAY PLANS FOR ARTICULATING CONCRETE BLOCK MATTING LOCATIONS.
2. FOR ARTICULATIG CONCRETE BLOCK MATTING,SEE ARTICULATING CONCRETE BLOCK MATTING SPECIAL PROVISION.
3. FOR POLYPROPYLENE FILTRATION GEOTEXTILE,SEE POLYPROPYLENE FILTRATION GEOTEXTILE SPECIAL PROVISION.

ALIGNMENT	BEGIN STATION	END STATION
-L-	18+20	18+75
-L-	27+45	27+70
-Y2-	11+35	11+55

4. SURFICIAL EROSION SHALL BE EXCAVATED AND REPLACED IN ACCORDANCE WITH SECTION 235 OF THE STANDARD SPECIFICATIONS IN THE AREAS LISTED ABOVE AND AT THE DISCRETION OF THE ENGINEER.BORROW MATERIAL SHALL MEET THE CRITERIA OUTLINED IN SECTION 1018-2(B) OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. PLACE THE UPSTREAM STRIP OF FILTRATION GEOTEXTILE OVERLAPPING THE DOWNSTREAM STRIP.OVERLAP THE LONGITUDINAL AND TRANSVERSE JOINTS A MINIMUM OF 1.5 FEET FOR DRY INSTALLATIONS AND A MINIMUM OF 3 FEET FOR BELOW-WATER INSTALLATIONS.
6. BURY THE ARTICULATING CONCRETE BLOCK MATTING A MINIMUM OF 2 FEET FOR THE TOP AND SIDE EDGES AND A MINIMUM OF 3.5 FEET AT THE TOE OF THE SLOPE.
7. TRENCH EXCAVATION IS INCIDENTAL TO THE COST OF THE ARTICULATING CONCRETE BLOCK MATTING.
8. BACKFILL TERMINATION TRENCHES WITH CLASS B CONCRETE IN ACCORDANCE WITH SECTION 1000 OF THE STANDARD SPECIFICATIONS. WHEN DEWATERING IS NOT PRACTICABLE FOR THE TOE TERMINATION TRENCH,SUBSTITUTE CLASS B CONCRETE WITH CLASS I RIP RAP IN ACCORDANCE WITH SECTION 1042 OF THE STANDARD SPECIFICATIONS AND DOCUMENT EXTENTS OF CHANGE DIRECTED BY THE ENGINEER.
9. LOOSELY PLACE SHOULDER AND SLOPE MATERIAL,IN ACCORDANCE WITH THE SPECIAL PROVISION FOR TOPSOIL,IN THE CELL OPENINGS OF THE ARTICULATING CONCRETE BLOCK MATTING.TOP DRESS AND SEED IN ACCORDANCE WITH SECTION 1660 OF THE STANDARD SPECIFICATIONS,THE SEED MIX EAST SPECIAL PROVISION,AND AS DIRECTED BY THE ENGINEER.
10. CLASS B CONCRETE AROUND PIPE OUTLETS IS INCIDENTAL TO THE COST OF ARTICULATING CONCRETE BLOCK MATTING.
11. PLACE A 1' X 1' CLASS B CONCRETE BEAM ON LAST ROW OF BLOCKS ACROSS CULVERTS.PAYMENT WILL BE INCIDENTAL TO THE COST OF ARTICULATING CONCRETE BLOCK MATTING.

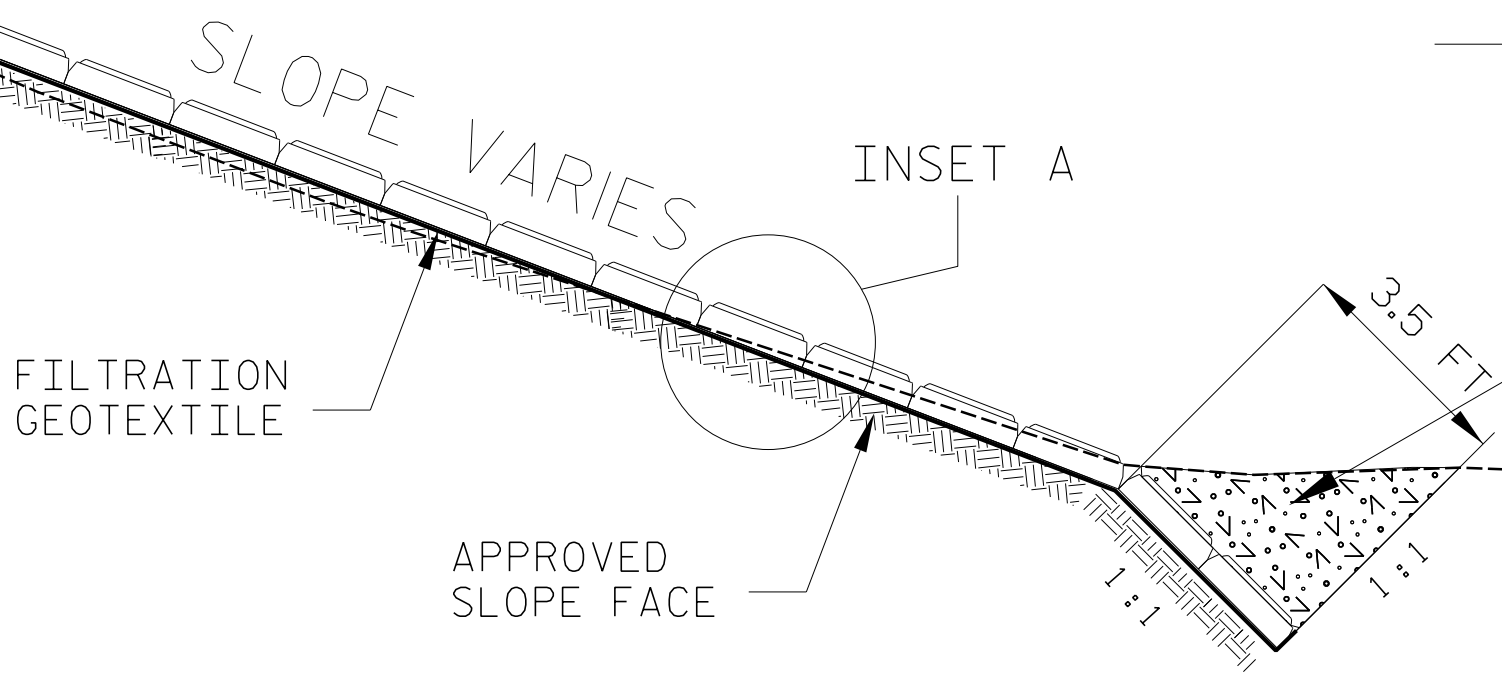


ESTIMATED QUANTITIES	
ARTICULATING CONCRETE BLOCK MATTING	38,000 SF
UNCLASSIFIED EXCAVATION*	100 CY
BORROW EXCAVATION*	100 CY

*QUANTITIES ARE INCIDENTAL TO THE LUMP SUM GRADING. SEE NOTE 4 ABOVE FOR EROSION REPAIR AREAS.

TYPICAL CROSS SECTION N.T.S.

BEGIN -L- STA. 12+90.22 END -Y1- STA. 11+75.10
BEGIN -L- STA. 17+53.27 END -Y2- STA. 12+01.13



ARTICULATING CONCRETE BLOCK MATTING DETAILS

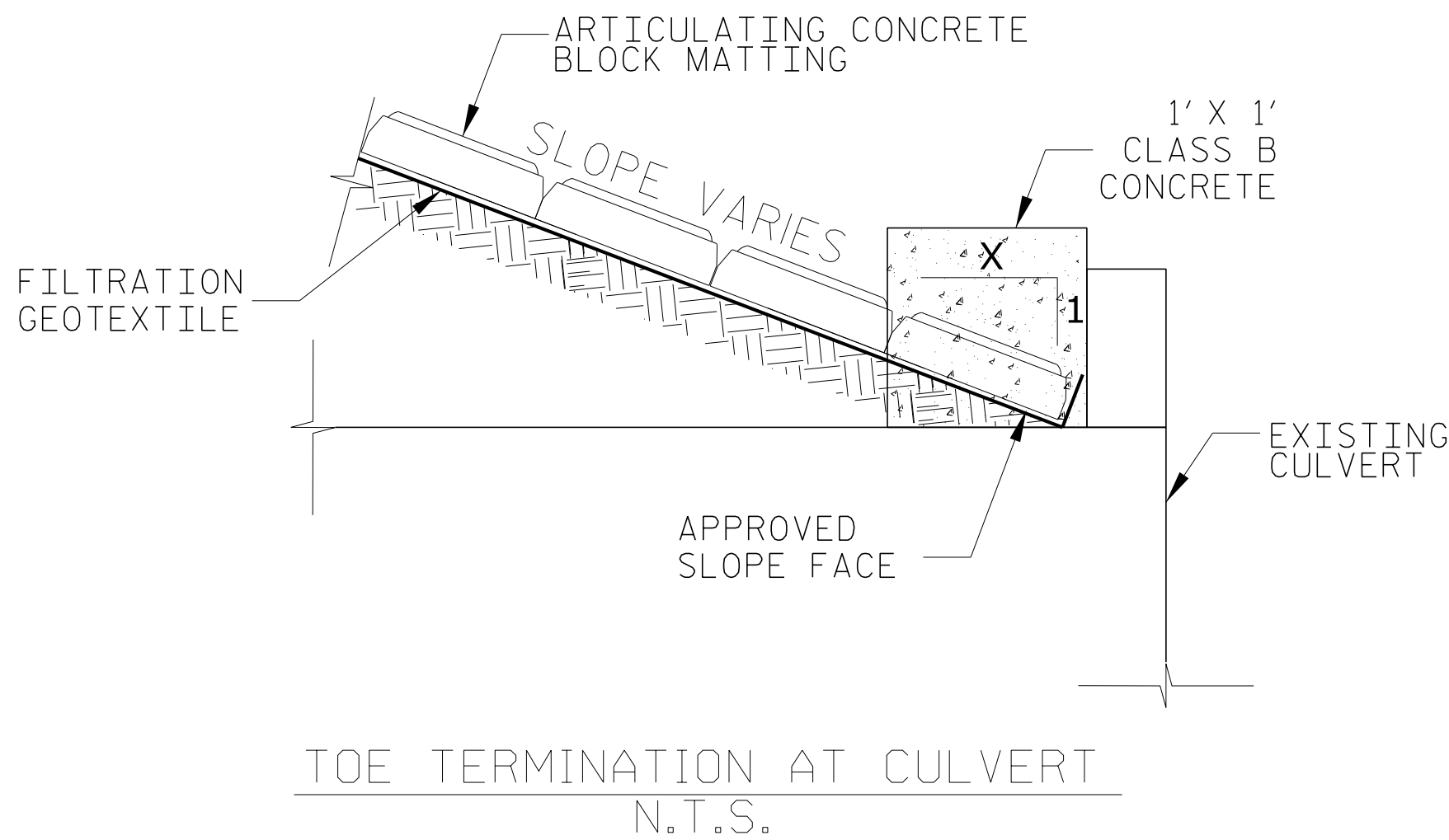
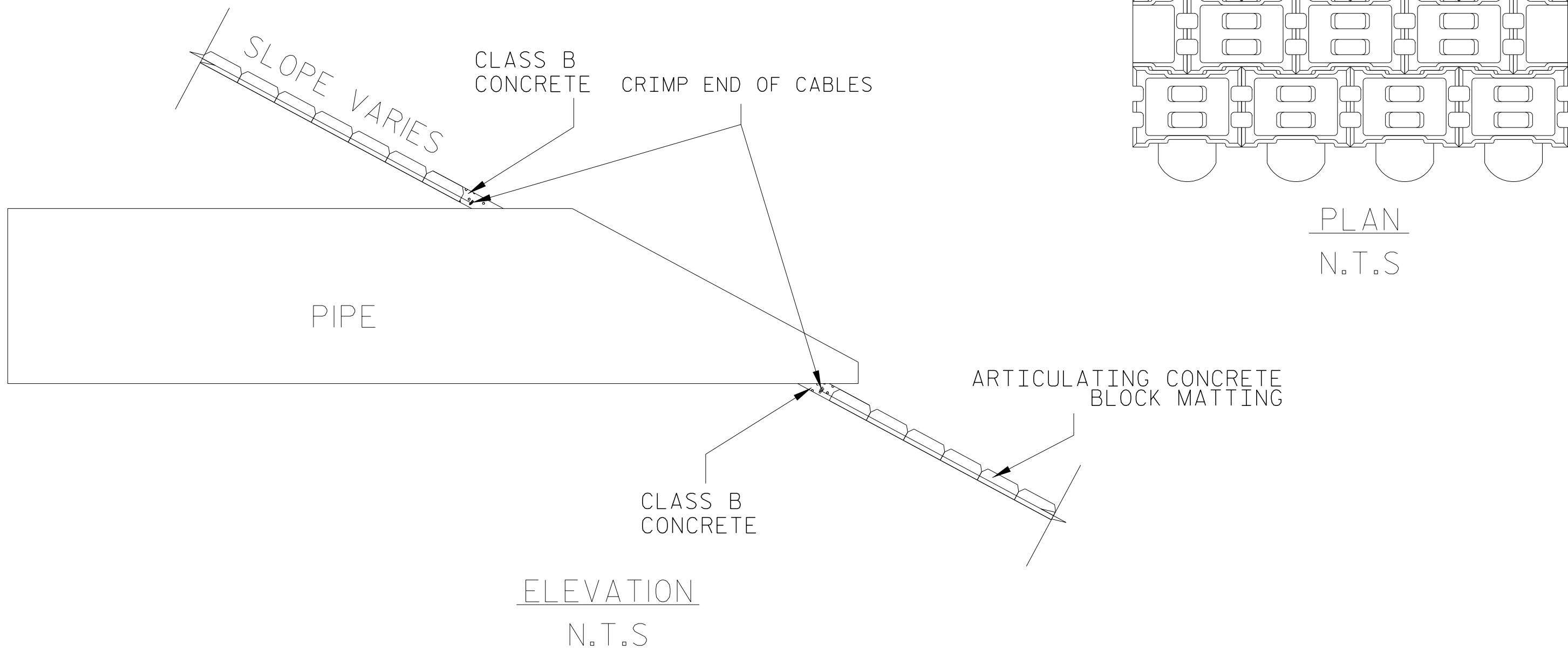
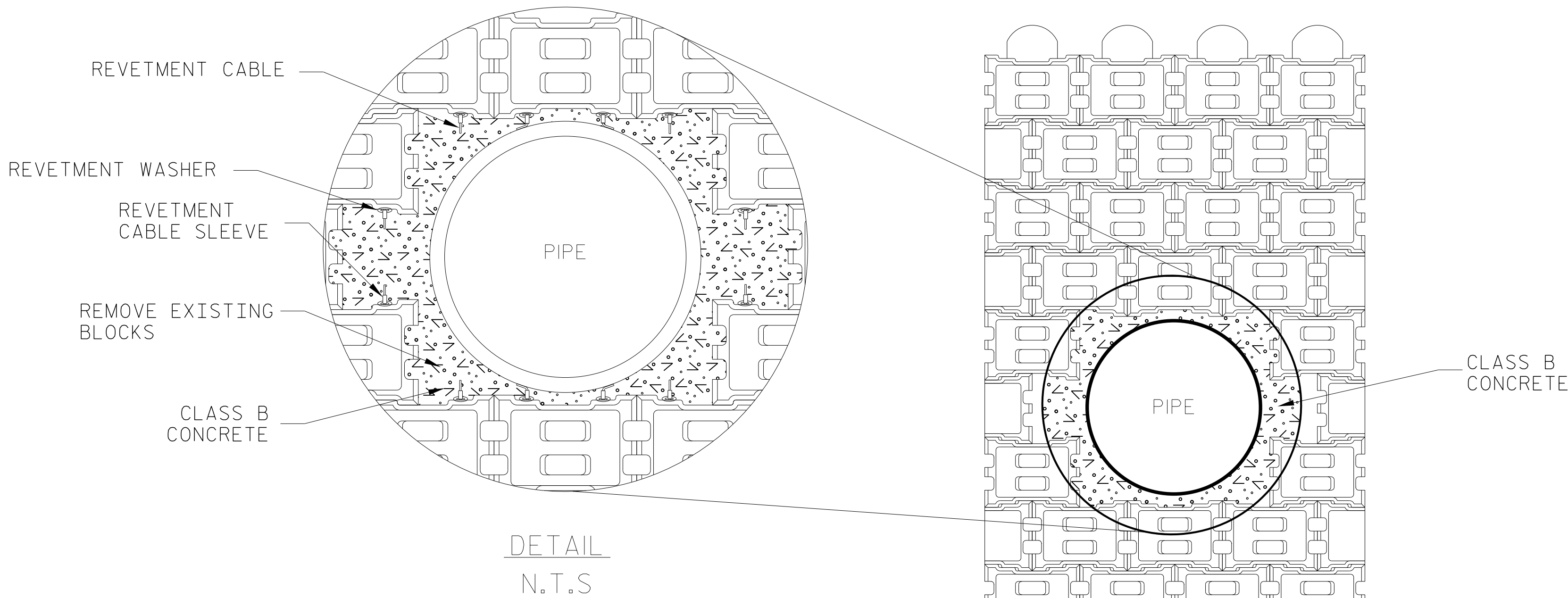
REVISIONS

NO.	BY	DATE	NO.	BY	DATE

RK&K
P: (919) 878-2550
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112
Engineers | Construction Managers | Planners | Scientists
www.rkk.com
Responsive People | Creative Solutions

5/14/99

PROJECT REFERENCE NO.		SHEET NO.	
HO-0021		2G-2	
GEOTECHNICAL ENGINEER		HYDRAULICS ENGINEER	
DocuSigned by: Margaret M. Switzer 4ACB8BA08B0C4F3... SEAL 024955 MARGARET M. SWITZER ENGINEER NORTH CAROLINA 8/4/2026		DocuSigned by: Douglas M. Keller 9C075EAEAD19B408... SEAL 038644 DOUGLAS M. KELLER ENGINEER NORTH CAROLINA 8/4/2026	
SIGNATURE		DATE	
SIGNATURE		DATE	
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ARTICULATING CONCRETE
BLOCK MATTING AT
PIPES AND CULVERTS DETAILS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE

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Raleigh, North Carolina 27615-3960
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PREPARED BY : H. CURRIE	DATE : 05/2026
REVIEWED BY : J. BATTS	DATE : 05/2026

5/28/99

8/5/2026
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jean@rkk.com

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

CHAIN	BEGINNING STATION	ENDING STATION	UNCL. EXCA. C.Y.	UNDERCUT C.Y.	EMBANK. +% C.Y.	BORROW C.Y.	WASTE C.Y.
SUMMARY 1							
-L-	12+90.22	28+35.74	635		350		285
-Y2-	10+50	12+01.10	50		14		43
SUBTOTAL			685		364		328
SHEET TOTALS			685		364		328
GEOTECH UNCLASSIFIED EXCAVATION			100		100	100	100
GEOTECH WASTE IN LIEW OF BORROW						-100	-100
GRAND TOTAL			785		464		328
SAY			790				

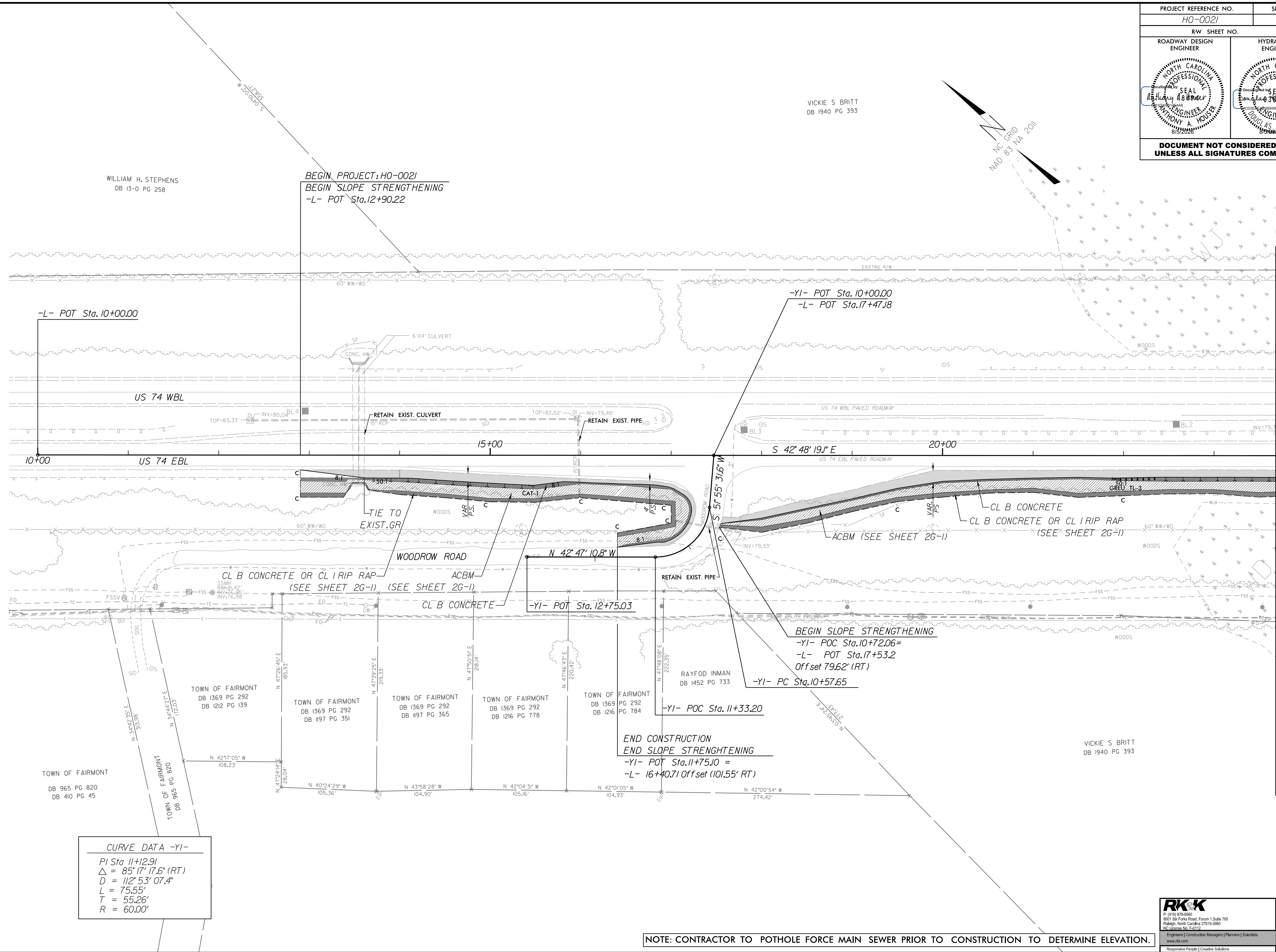
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES
GUARDRAIL SUMMARY

[illegible]

8/17/99

8/5/2026
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PROJECT REFERENCE NO. H0-0021		SHEET NO. 4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
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MATCHLINE -L- STA.24+00.00 SEE SHEET 5

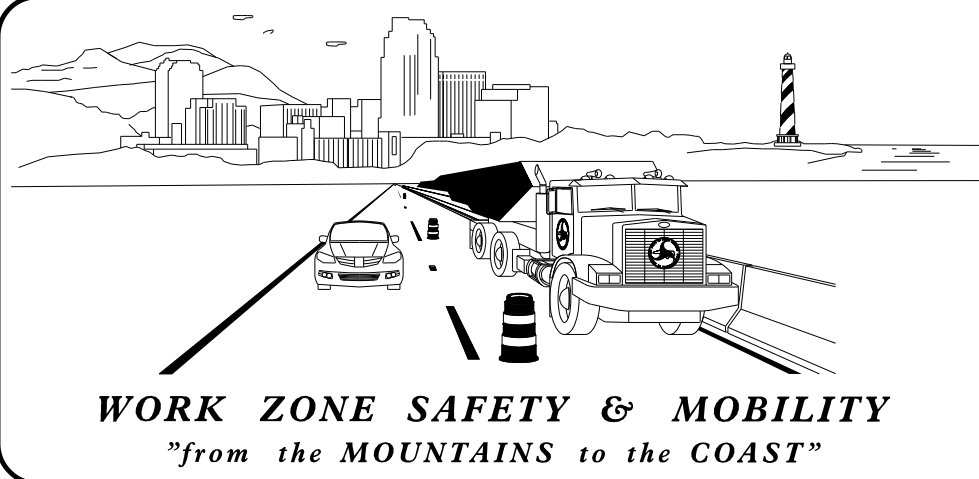
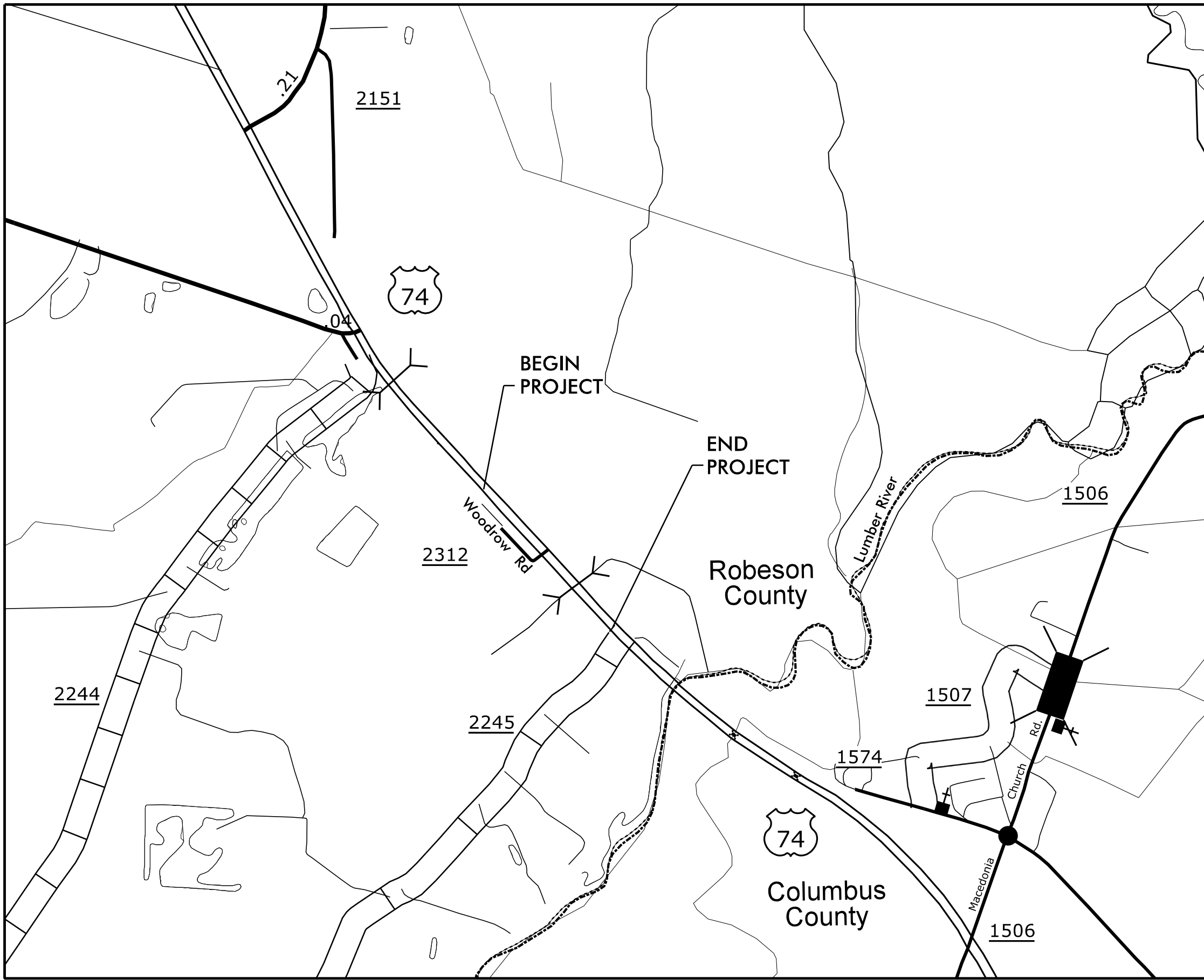
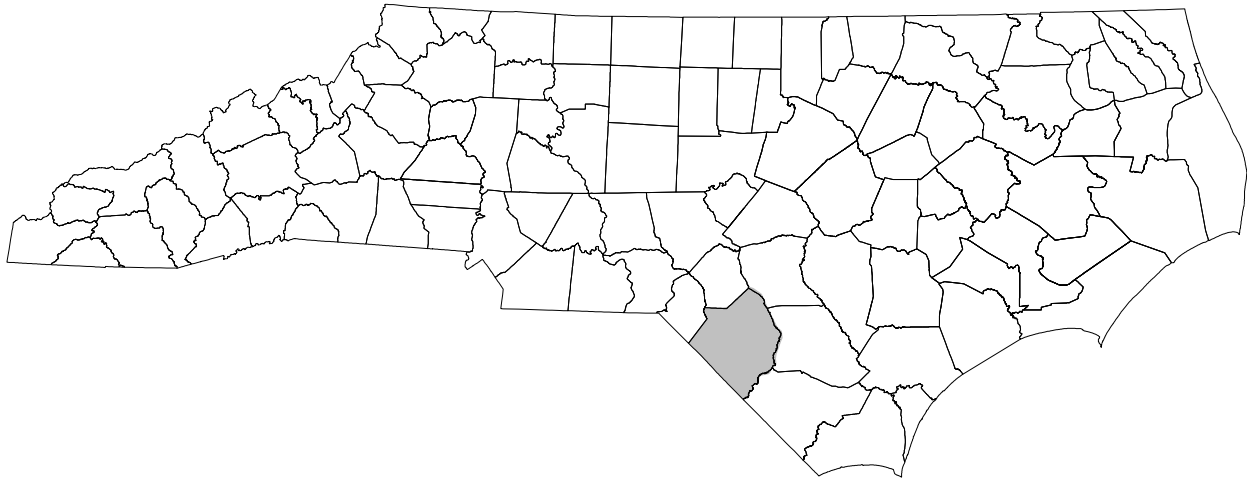
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

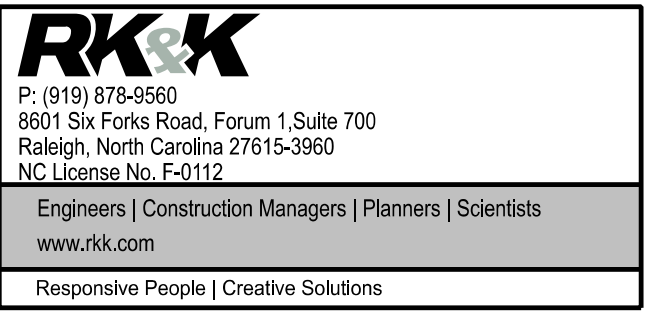
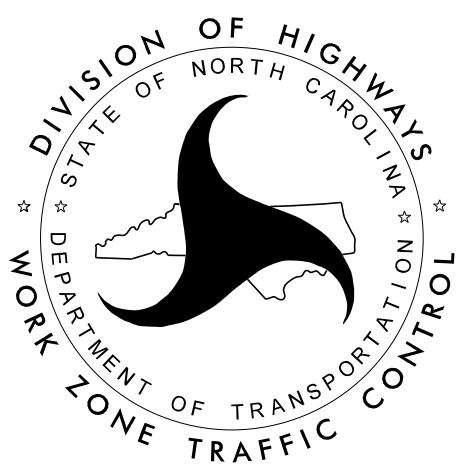
ROBESON COUNTY

LOCATION: US-74 AT THE LUMBER RIVER
TYPE OF WORK: PAVING, REINFORCING SHOULDERS AND EMBANKMENTS

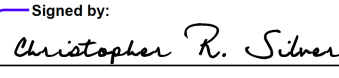


PLANS PREPARED BY:
CHRIS SILVER, P.E., P.T.O.E.
PROJECT ENGINEER

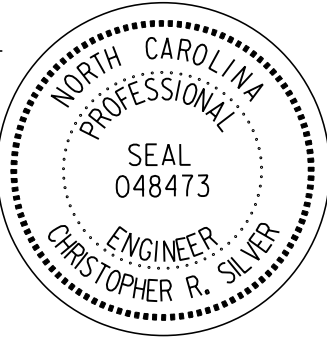
NCDOT CONTACTS:
CRAIG A FREEMAN JR., PE, CPM
PROJECT MANAGER



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APPROVED: 
DATE: 8/4/2026

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INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B-1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, LOCAL NOTES, AND TRAFFIC CONTROL PHASING)
TMP-2-3	TEMPORARY TRAFFIC CONTROL PHASING I DETAIL

SHEET NO.
TMP-1

HO-0021

PROJECT:

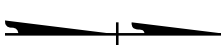
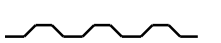
ROADWAY STANDARD DRAWINGS

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

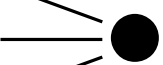
STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUMS

LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  NORTH ARROW
-  TEMP. SHORING (LOCATION PURPOSES ONLY)
-  WORK AREA

TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM  SKINNY DRUM  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  TEMPORARY CRASH CUSHION (NON-GATING)
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN
-  PORTABLE CONCRETE BARRIER
-  PORTABLE CONCRETE BARRIER (EXISTING)
-  PORTABLE CONCRETE BARRIER (SECTION VIEW)
-  DRUM (SECTION VIEW)
-  SKINNY DRUM (SECTION VIEW)
-  CONE (SECTION VIEW)

PAVEMENT MARKINGS

-  EXISTING LINES
-  PROPOSED LINES

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

TEMPORARY PAVEMENT MARKING SCHEDULE

PAINT (6")

- P20 WHITE EDGELINE
- P21 WHITE SOLID LANE LINE
- P23 3FT.-9FT./SP WHITE MINISKIP
- P24 2FT.-6FT./SP WHITE MINISKIP

PAINT PAVEMENT MARKING SYMBOLS

-  RIGHT TURN ARROW

8/4/2026
HO-002L TMP_PSHQIA - RSD - LEGEND.dgn

PROJ. REFERENCE NO.
HO-0021

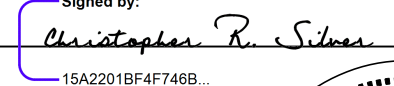
SHEET NO.
TMP - 1A

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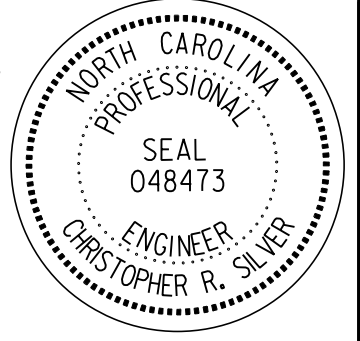
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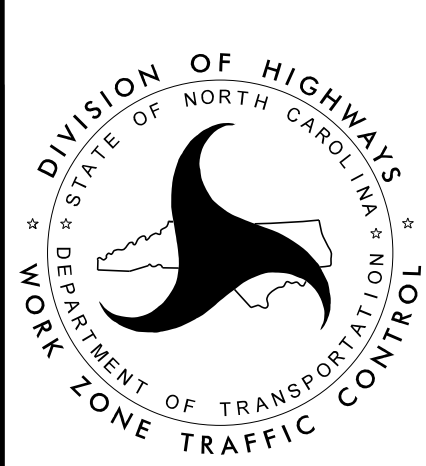
Signed by:


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DATE: 8/4/2026

SEAL





ROADWAY STANDARD
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

- A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:
THE FOLLOWING TIME RESTRICTIONS DO NOT APPLY FOR PHASE I, STEPS 3-5, AS DESCRIBED IN THE PHASING.

ROAD NAME	DAY AND TIME RESTRICTIONS
US 74	MEMORIAL DAY TO LABOR DAY 6:00 A.M. FRIDAY TO 10:00 P.M. SUNDAY

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

ROAD NAME

US 74

HOLIDAY

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- H) NOTIFY THE NCDOT STATEWIDE TRANSPORTATION OPERATIONS CENTER (STOC) AT 877-627-7862 APPROXIMATELY 30 MINUTES PRIOR TO INSTALLING AND WITHIN 15 MINUTES AFTER REMOVING LANE CLOSURES ON INTERSTATES, FREEWAYS, CONTROLLED ACCESS FACILITIES, AND US ROUTES.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

- J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 300 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 300 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

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

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

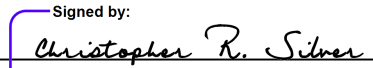
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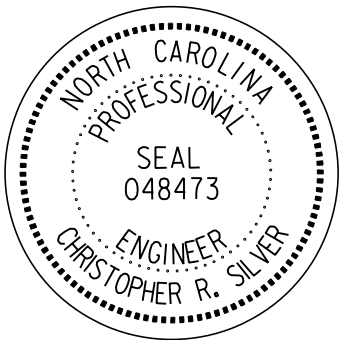
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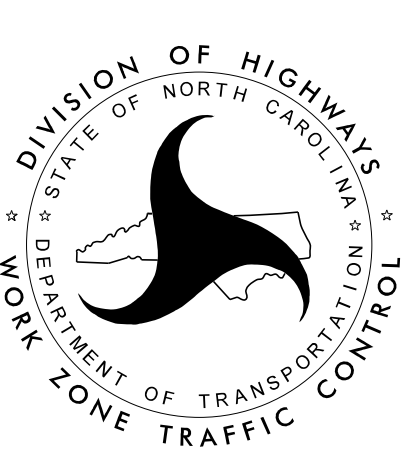
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TRANSPORTATION OPERATIONS
PLAN: GENERAL NOTES,
PHASING, AND MANAGEMENT
STRATEGIES

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GENERAL NOTES (CONT.)

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

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

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

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

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

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

- P) USE NON-GATING CRASH CUSHIONS AS REQUIRED IN THE TMP

TRAFFIC CONTROL DEVICES

- Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
US 74	PAINT	TEMPORARY RAISED
ALL OTHER ROADS	PAINT	NONE

- S) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER
- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES
- U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION

TRANSPORTATION MANAGEMENT STRATEGIES

LANE CLOSURES
SHOULDER CLOSURES
ONE-LANE, TWO WAY OPERATION (FLAGGING)
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL

TRAFFIC CONTROL PHASING

PHASE I

STEP 1:
ERECT WORK ZONE ADVANCE WARNING SIGNS ON -L- US 74 AND WOODROW ROAD IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1101.01 SHEET 1.

STEP 2:
USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 & 3 AND 1101.04 SHEET 1 TO MAINTAIN TRAFFIC, BEGIN EMBANKMENT WORK ON -L-. MAINTAIN EXISTING GUARDRAIL.

NOTE:
THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED IN STEPS 3 THROUGH 5 WITHIN 60 CALENDAR DAYS. (SEE SPECIAL PROVISIONS FOR INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

STEP 3:
USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 & 3 AND 1101.04 SHEET 1 TO MAINTAIN TRAFFIC, INSTALL TEMPORARY PAVEMENT MARKINGS AND PORTABLE CONCRETE BARRIER TO CLOSE OUTSIDE LANE ALONG -L- AS SHOWN ON TMP-2 AND TMP-3.

STEP 4:
USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 1 ON -Y- LINES AND BEHIND BARRIER ON -L-, CONSTRUCT SHOULDER STRENGTHENING AND INSTALL FINAL GUARDRAIL. ONLY WORK ON ONE SIDE OF A -Y- LINE AT ANY TIME.

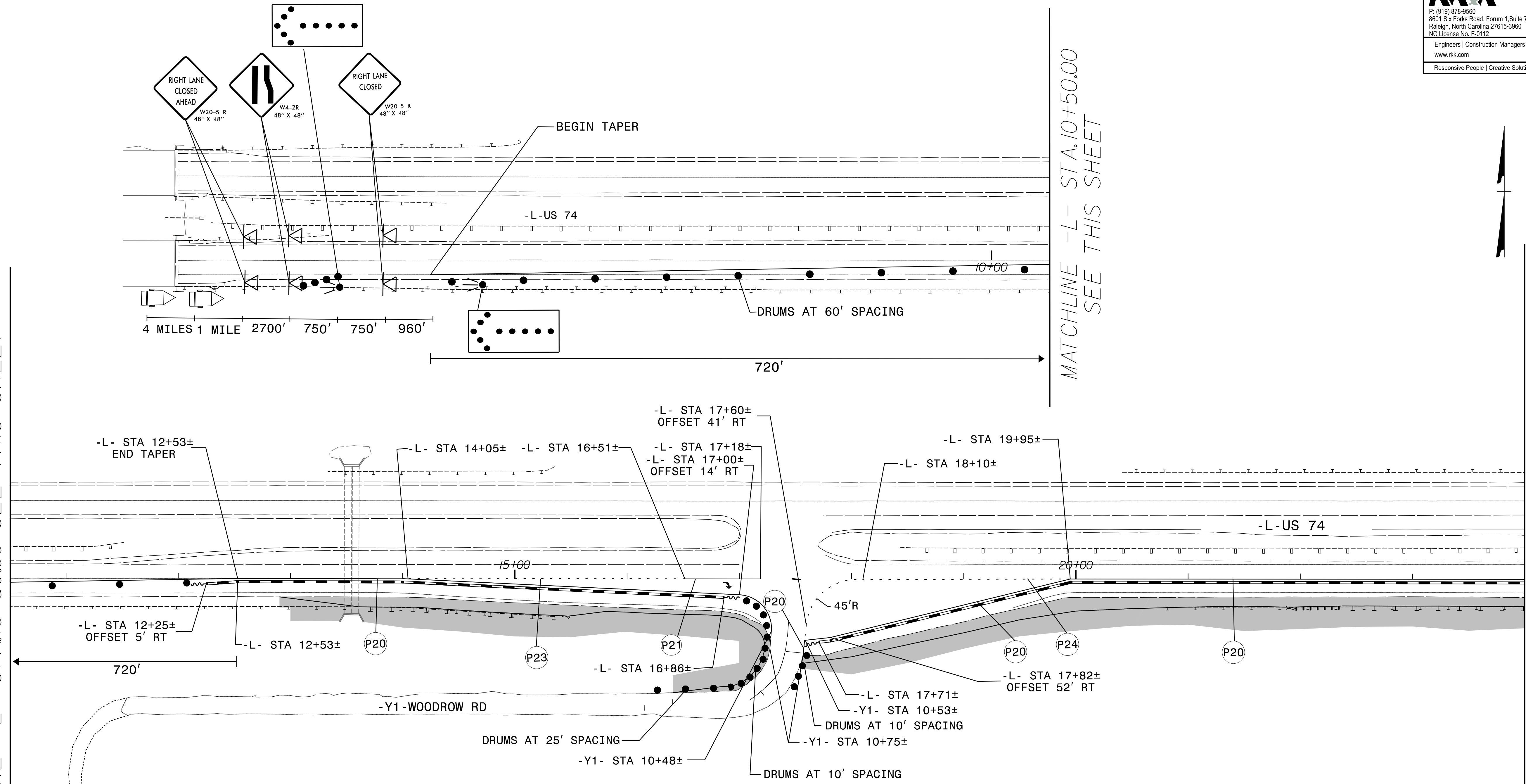
STEP 5:
USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 & 3 AND 1101.04 SHEET 1 TO MAINTAIN TRAFFIC, REMOVE BARRIER AND INSTALL PERMANENT PAVEMENT MARKINGS ACCORDING TO THE SIGNING AND DELINEATION PLANS.

STEP 6:
USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEETS 1 & 3 AND 1101.04 SHEET 1 TO MAINTAIN TRAFFIC, COMPLETE ANY REMAINING CONSTRUCTION.

STEP 7:
UPON COMPLETION REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FROM THE PROJECT.

APPROVED: Signed by: Christopher R. Silver DATE: 8/4/2026 SEAL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	NORTH CAROLINA PROFESSIONAL SEAL 048473 ENGINEER CHRISTOPHER R. SILVER DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL
--	--

MATCHLINE -L- STA.10+50.00 SEE THIS SHEET



NOTES:
LANES ARE 12' UNLESS OTHERWISE NOTED
PORTABLE CONCRETE BARRIER SHALL BE MIN. 2' OFFSET FROM TRAVELWAY

MATCHLINE -L- STA.24+00.00 SEE TMP-3

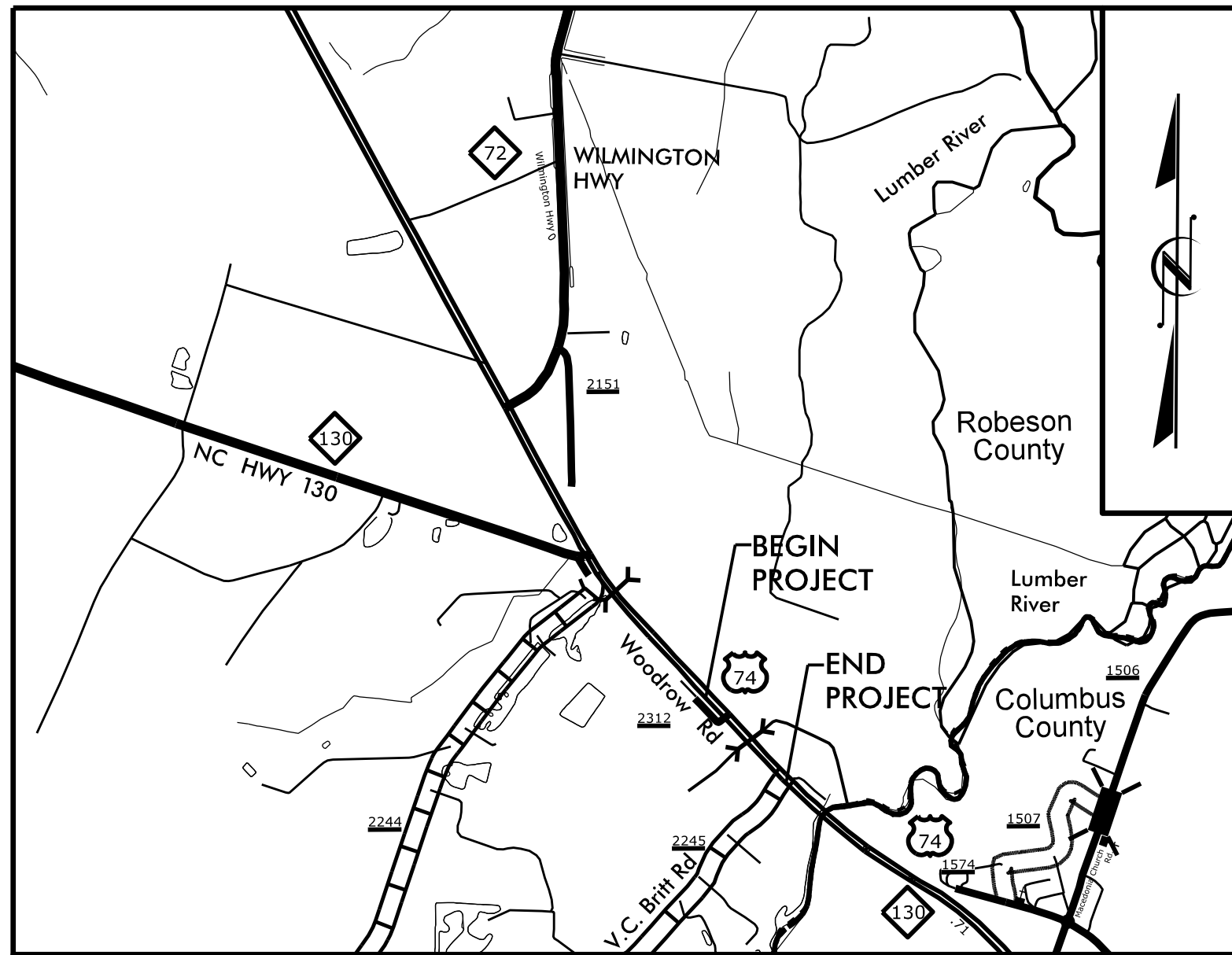
APPROVED: DATE: 8/4/2026 SEAL 	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	PHASE I - STEPS 3-5 DETAILS
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

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09/08/99

CONTRACT: DF00562 TIP PROJECT: HO-0021

See Sheet 1A For Index of Sheet
See Sheet 1B For Sheet Symbology



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

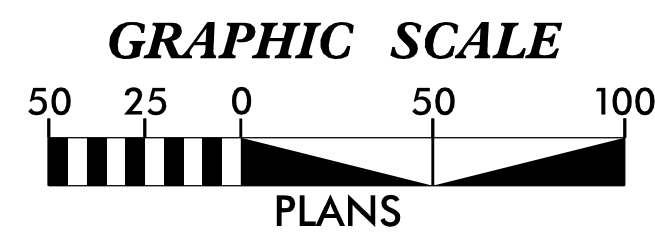
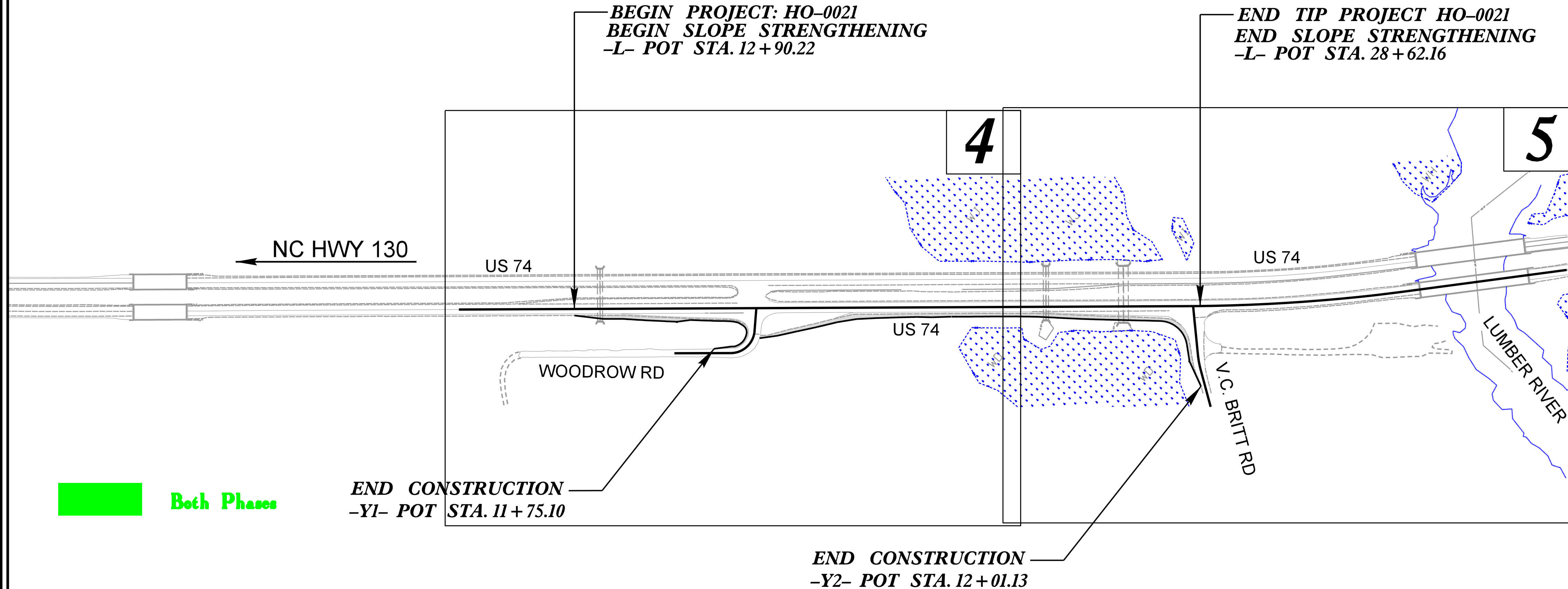
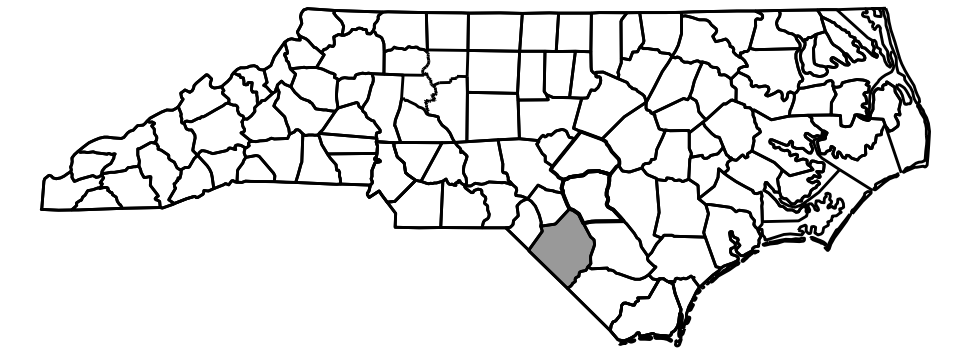
ROBESON COUNTY

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

DESCRIPTION: PROTECTING US 74 AT THE LUMBER RIVER. US 74
(FUTURE I-74) NEAR BRIDGES 770466 AND 770118 OVER THE LUMBER
RIVER.

TYPE OF WORK: PAVING, REINFORCE SHOULDERS AND EMBANKMENTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HO-0021	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
51674.1.1		PE	
51674.3.1	PLUM074	CONSTRUCTION	



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL
STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION
OF ENERGY, MINERAL, AND LAND RESOURCES.

RK&K

Prepared In the Office of:

RK&K, LLP

8601 SIX FORKS ROAD, SUITE 700
RALEIGH, NORTH CAROLINA 27609
NC LINCENSE NO. F-0112
1-888-521-4455 OR 919-878-9560

Designed by:

A.M. KEETER

NAME

4184

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
HO-0021	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
I605.01	Temporary Silt Fence		I633.01	Temporary Rock Silt Check Type A	
I606.01	Special Sediment Control Fence		I633.02	Temporary Rock Silt Check Type B	
I622.01	Temporary Berms and Slope Drains		I633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
I630.02	Silt Basin Type B		I634.01	Temporary Rock Sediment Dam Type A	
I630.03	Temporary Silt Ditch		I634.02	Temporary Rock Sediment Dam Type B	
I630.04	Stilling Basin		I635.01	Rock Pipe Inlet Sediment Trap Type A	
I630.05	Temporary Diversion		I635.02	Rock Pipe Inlet Sediment Trap Type B	
I630.06	Special Stilling Basin		I636.01	Excelsior Wattle Check	
I630.07	Skimmer Basin		I636.01	Excelsior Wattle Check with Flocculant	
I630.08	Tiered Skimmer Basin		I636.01	Coir Fiber Wattle Check	
I630.09	Earthen Dam with Skimmer		I636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		I636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
I632.01	Type A		I636.03	Excelsior Wattle Barrier	
I632.02	Type B		I636.03	Coir Fiber Wattle Barrier	
I632.03	Type C				

SOIL STABILIZATION TIMEFRAMES

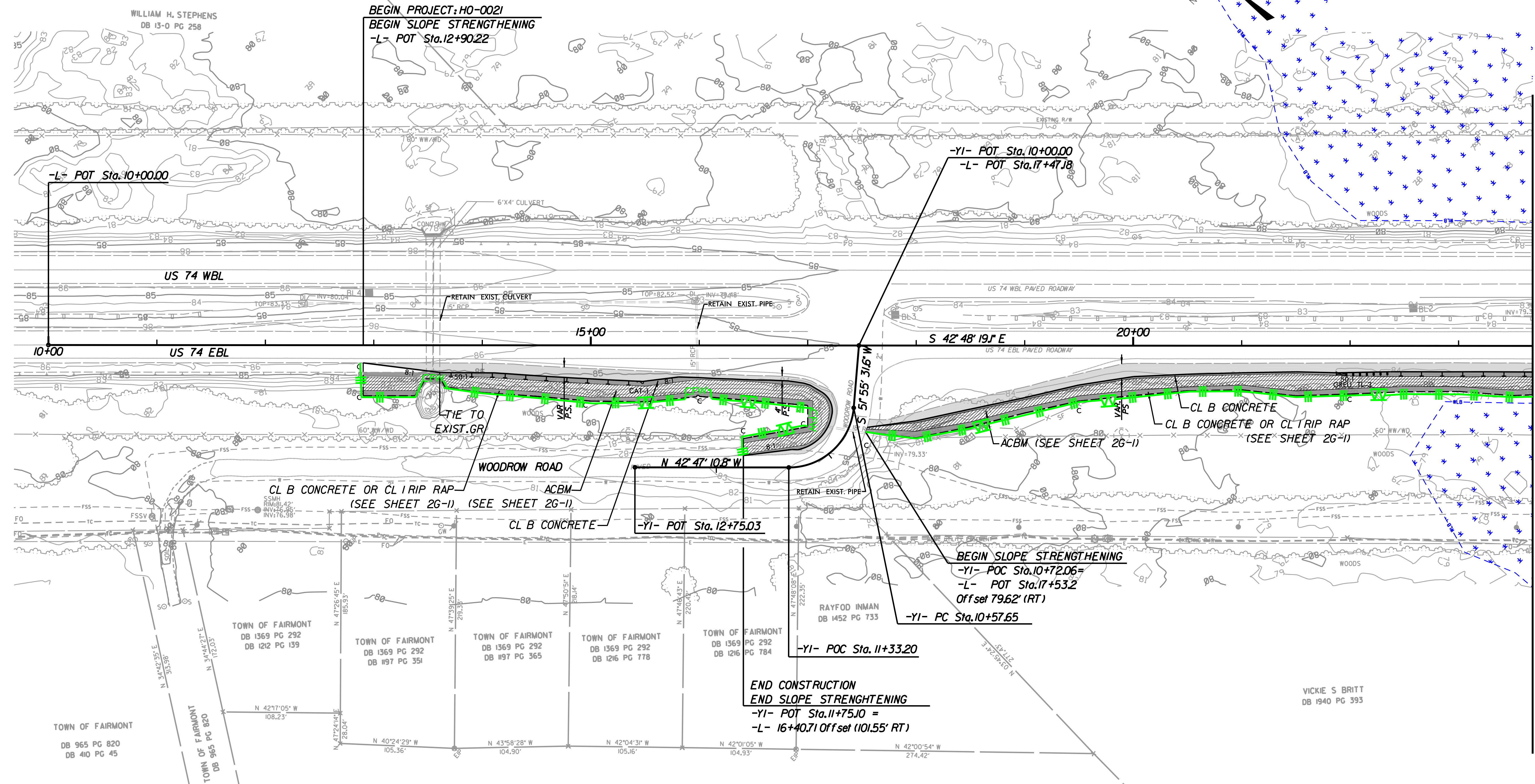
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

8/17/99

8/5/2026
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PROJECT REFERENCE NO.	SHEET NO.
H0-0021	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4



CURVE DATA -YI-
PI Sta 11+12.91
$\Delta = 85^{\circ}17'17.6''$ (RT)
$D = 112^{\circ}53'07.4''$
$L = 75.55'$
$T = 55.26'$
$R = 60.00'$

NOTE: CONTRACTOR TO POT HOLE FORCE MAIN SEWER PRIOR TO CONSTRUCTION TO DETERMINE ELEVATION.

MATCHLINE -L- STA. 24+00.00 SEE SHEET 5

RK&K
P: (919) 678-6560
8601 Six Forks Road, Suite 100
Raleigh, NC 27615-3960
www.rkk.com

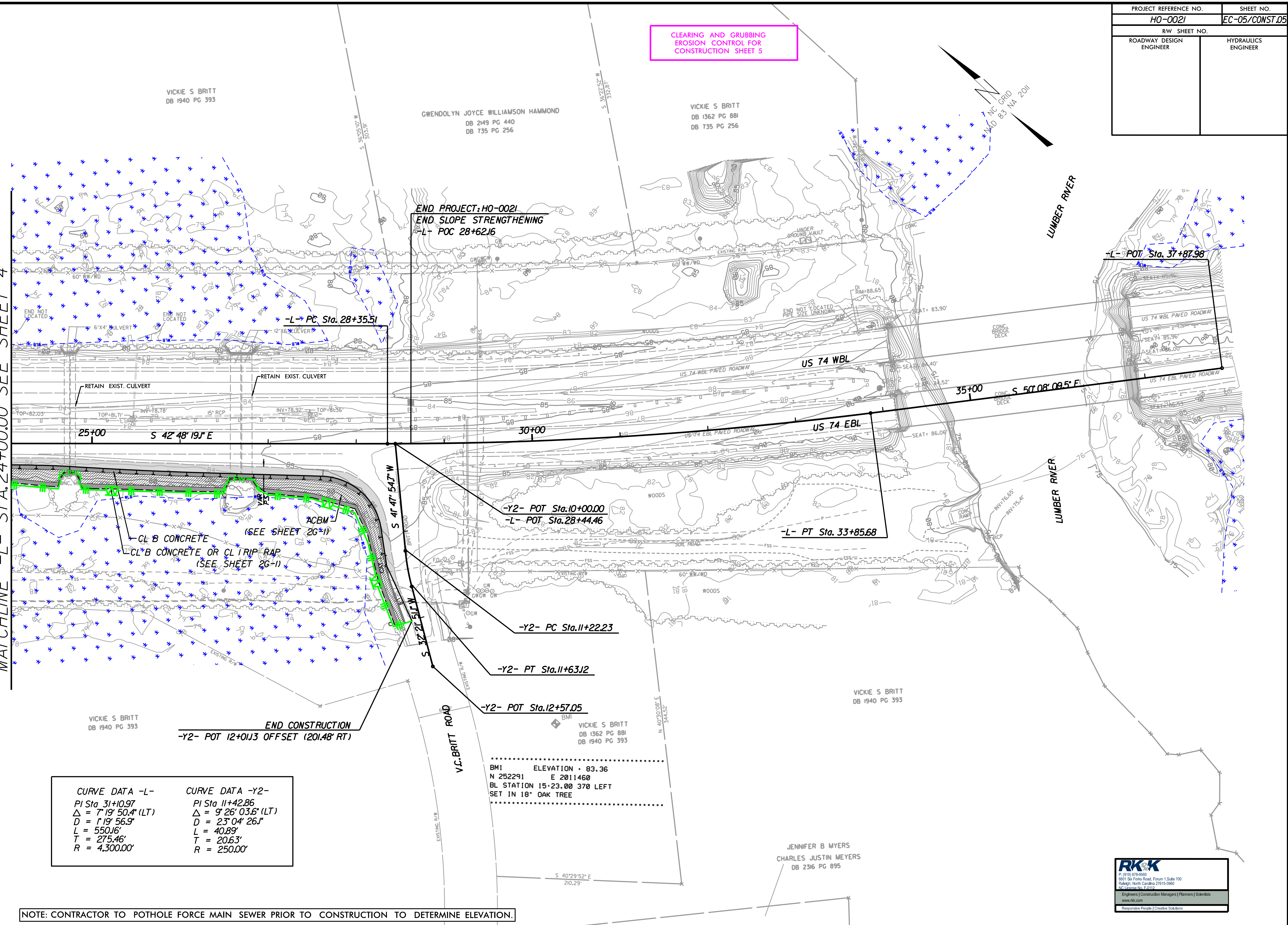
Engineers | Construction Managers | Planners | Scientists
Responsive People | Creative Solutions

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8/5/2026
c:\pwworking\rkk\production\d0225031\NC 74 Resiliency_hyd_EC_psh5.dgn

PROJECT REFERENCE NO.	SHEET NO.
H0-0021	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -L- STA.24+00.00 SEE SHEET 4



CURVE DATA -L-	CURVE DATA -Y2-
PI Sta 31+0.97	PI Sta 11+42.86
$\Delta = 7^{\circ}19'50.4''$ (LT)	$\Delta = 9^{\circ}26'03.6''$ (LT)
D = 1'19'56.9"	D = 23'04'26.1"
L = 550.16'	L = 40.89'
T = 275.46'	T = 20.63'
R = 4,300.00'	R = 250.00'

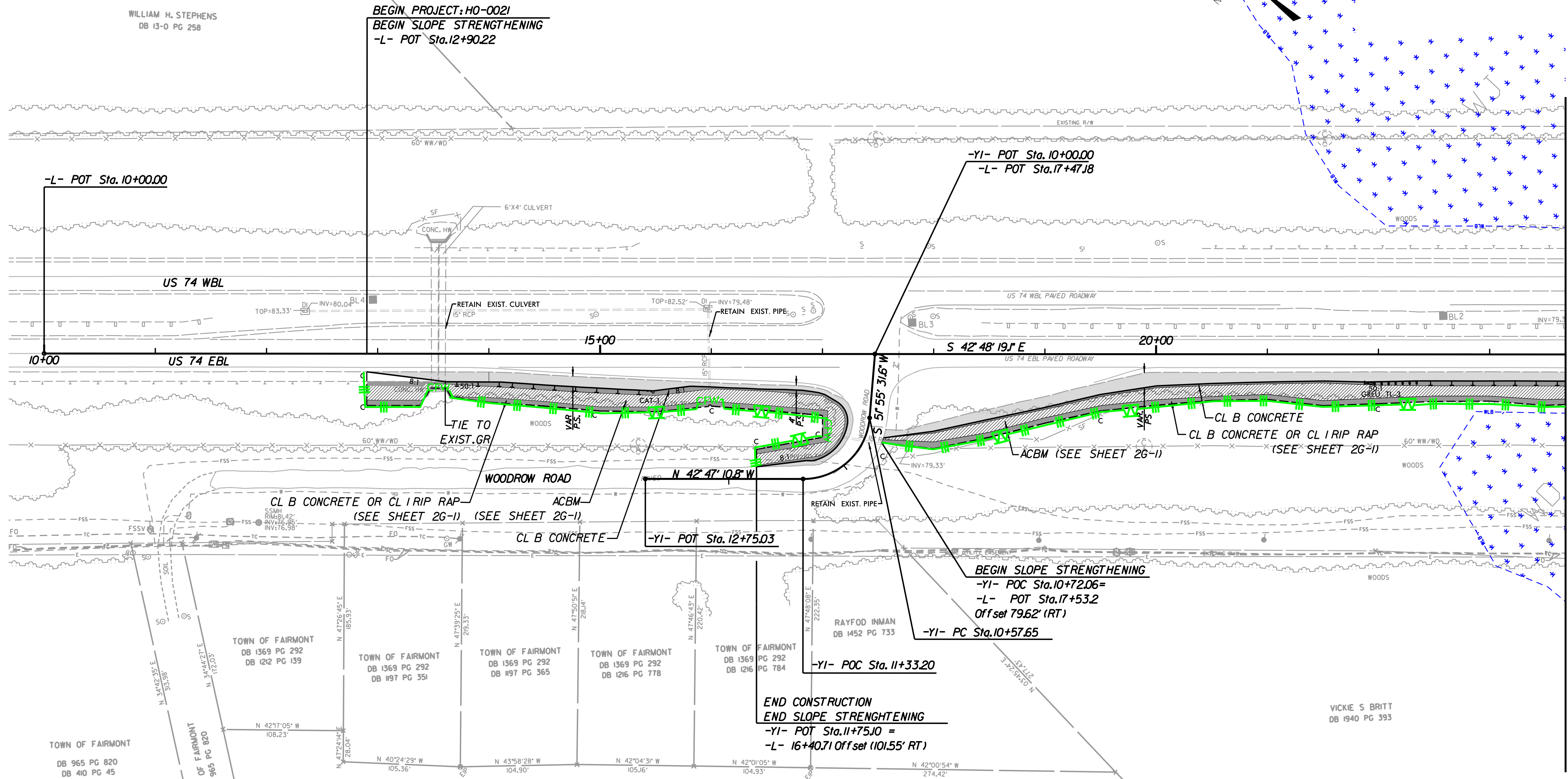
NOTE: CONTRACTOR TO POT HOLE FORCE MAIN SEWER PRIOR TO CONSTRUCTION TO DETERMINE ELEVATION.



8/17/99

8/5/2026
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PROJECT REFERENCE NO.	SHEET NO.
H0-0021	EC-06/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CURVE DATA -YI-
PI Sta 11+12.91
 $\Delta = 85^{\circ}17'17.6''$ (RT)
 $D = 112^{\circ}53'07.4''$
 $L = 75.55'$
 $T = 55.26'$
 $R = 60.00'$

NOTE: CONTRACTOR TO POT HOLE FORCE MAIN SEWER PRIOR TO CONSTRUCTION TO DETERMINE ELEVATION.



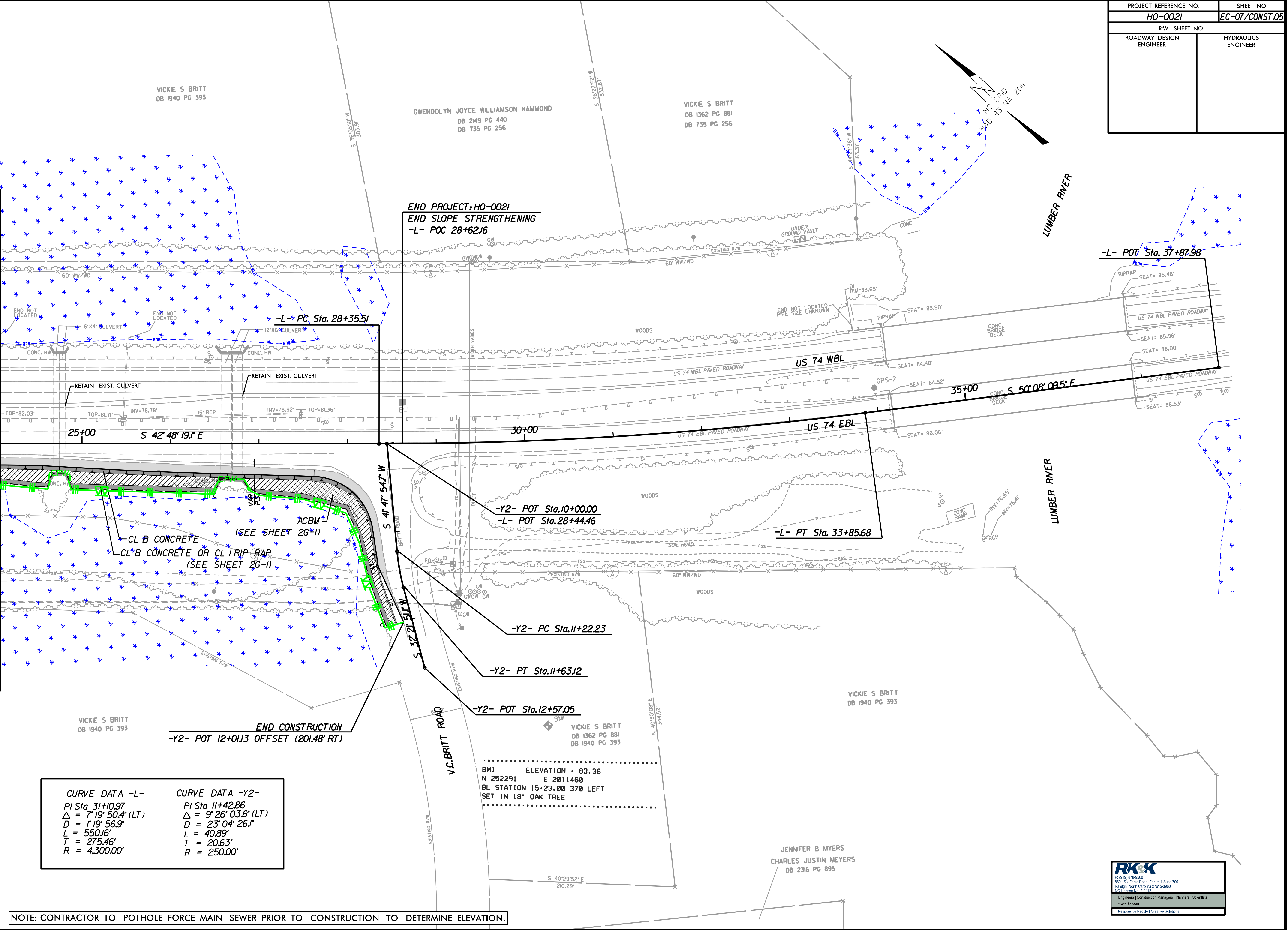
MATCHLINE -L- STA. 24+00.00 SEE SHEET 5

8/17/99

8/5/2026
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PROJECT REFERENCE NO.	SHEET NO.
H0-0021	EC-07/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -L- STA.24+00.00 SEE SHEET 4



CURVE DATA -L-	CURVE DATA -Y2-
PI Sta. 31+10.97	PI Sta. 11+42.86
$\Delta = 7^{\circ}19'50.4"$ (LT)	$\Delta = 9^{\circ}26'03.6"$ (LT)
D = 1'19" 56.9"	D = 23' 04" 26.1"
L = 550.16'	L = 40.89'
T = 275.46'	T = 20.63'
R = 4,300.00'	R = 250.00'

.....
BM1 ELEVATION = 83.36
N 252291 E 2011460
BL STATION 15+23.00 370 LEFT
SET IN 18" OAK TREE
.....

NOTE: CONTRACTOR TO POT HOLE FORCE MAIN SEWER PRIOR TO CONSTRUCTION TO DETERMINE ELEVATION.



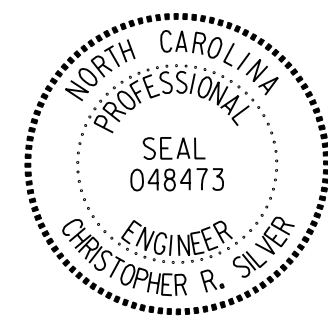
T.I.P.: HO-0021

CONTRACT: DF00562

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING AND DELINEATION PLAN
ROBESON COUNTY

LOCATION: US-74 AT THE LUMBER RIVER

PROJECT REFERENCE NO.	SHEET NO.
HO-0021	S&D-1
APPROVED:  15A22018F4F746B...	
DATE: 7/10/2026	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION AND SPACING
1264.01	OBJECT MARKER - TYPES
1264.01	OBJECT MARKER - INSTALLATION

SIGNING GENERAL NOTES

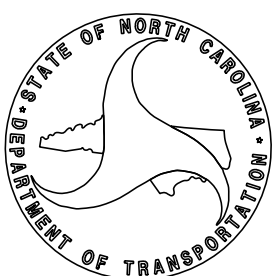
- . SIGNS FURNISHED BY THE CONTRACTOR
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF SIGNING QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	77.25	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	116	L.F.
4102000000	904	SIGN ERECTION, TYPE E	12	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	7	EA.

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

MITCH EATON, PE SIGNING & DELINEATION REGIONAL ENGINEER
STACEY JOHNS SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PAVEMENT MARKING GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | | | |
|-----------|---------------|-------------------------|
| ROAD NAME | MARKING | MARKER |
| -L- US 74 | THERMOPLASTIC | POLYCARBONATE H-MARKERS |
- D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- F) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- G) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- I) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC LINES	
T20	WHITE SOLID EDGE LINE (6", 90 MIL)
T21	WHITE SOLID LANE LINE (6", 90 MIL)
T22	10FT WHITE SKIP (6", 90 MIL)
T23	3FT-9FT./SP WHITE MINISKIP (6", 90 MIL)
T24	2FT-6FT./SP WHITE MINISKIP (6", 90 MIL)

THERMOPLASTIC SYMBOLS	
T71	RIGHT TURN ARROW (90 MIL)
T72	STRAIGHT ARROW (90 MIL)

INDEX

SHEET NO.	DESCRIPTION
S&D-1	TITLE AND GENERAL NOTES SHEET
S&D-1A	REVISED ROADWAY STANDARD DRAWING 1205D0101
S&D-1B	REVISED ROADWAY STANDARD DRAWING 1205D0102
S&D-1C	'E' SIGNS SHEET
S&D-2-3	SIGNING AND DELINEATION LAYOUT SHEETS

CONTINUOUS LINES EDGE LINE YELLOW OR WHITE 4" / 6" LANE LINE WHITE 4" / 6" CENTER LINE YELLOW 4" / 6" GORE LINE WHITE 8" / 12" DIAGONAL LINE YELLOW OR WHITE 12" 45 MPH OR HIGHER 8" LESS THAN 45 MPH 4"-6" FOR BICYCLE FACILITIES CROSSWALK LINE WHITE 8" TRANSVERSE 24" LONGITUDINAL RxR LINE WHITE 16" STOP OR TRANSVERSE BAR WHITE 24"	10'-30' / SP SKIP LINE UNLESS OTHERWISE SHOWN, USE 10'-30' / SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES. 10' 30' 4" / 6" YELLOW OR WHITE	2'-6' / SP MINI-SKIP LINE UNLESS OTHERWISE SHOWN, USE 2'-6' / SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND BICYCLE LANE EXTENSIONS. 2' 6' 4" / 6" YELLOW OR WHITE	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.
	3'-3' / SP MINI-SKIP LINE UNLESS OTHERWISE SHOWN, USE 3'-3' / SP MINI-SKIPS FOR THE WHITE EDGE LINE EXTENSIONS AT ROUNDABOUTS. 3' 3' 8" / 12" WHITE	3'-9' / SP MINI-SKIP LINE UNLESS OTHERWISE SHOWN, USE 3'-9' / SP MINI-SKIPS FOR MINI-SKIP LANE LINES, LINE EXTENSIONS THROUGH TAPERS, AND MINI-SKIPS USED FOR BICYCLE LANE LINES. 3' 9' 4" / 6" WHITE	
	GENERAL NOTES: 1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER. 2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE. 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.		
			ROADWAY DETAIL DRAWING FOR PAVEMENT MARKINGS LINE TYPES AND OFFSETS
			SHEET 1 OF 2 1205D01



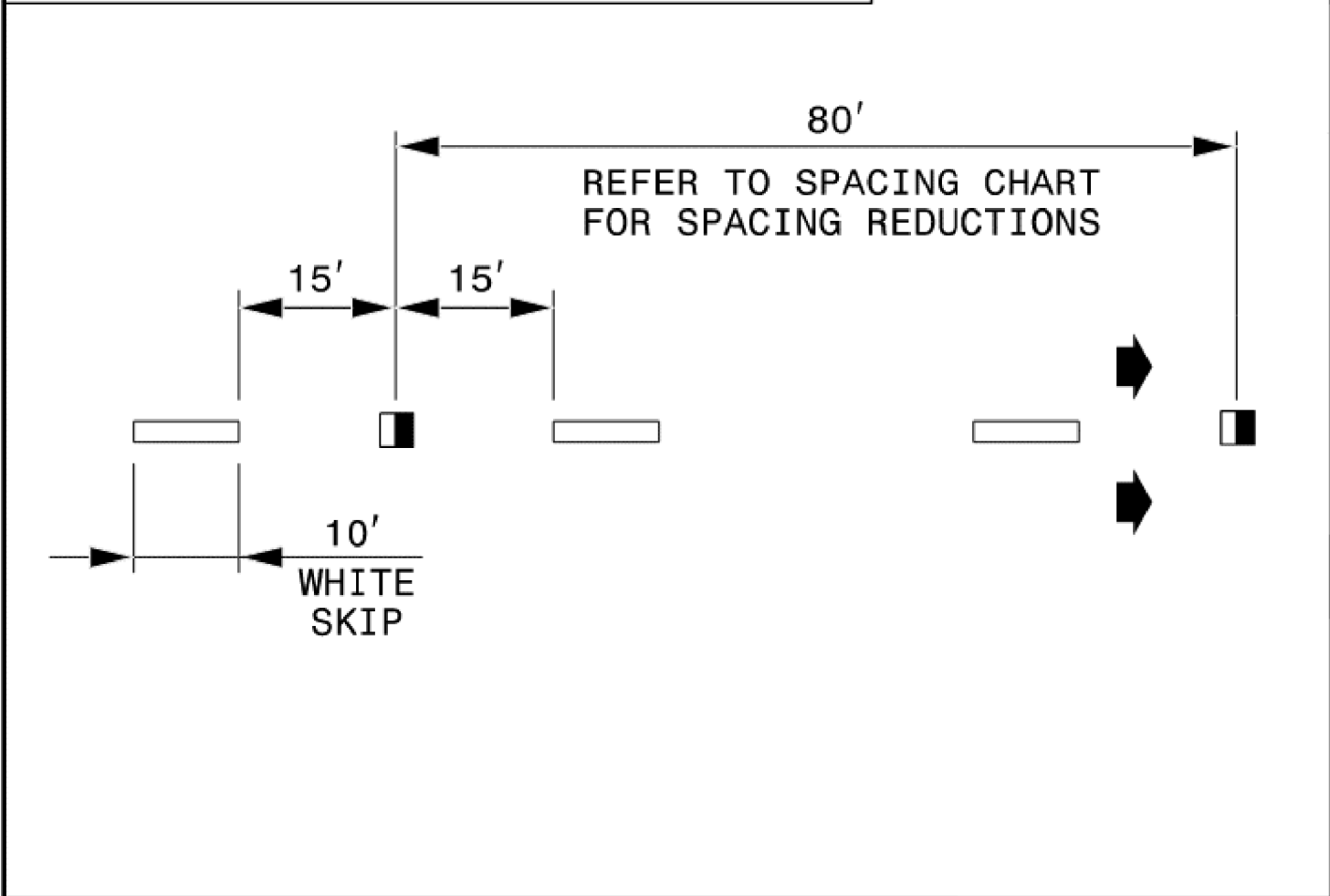
7/10/2026

CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

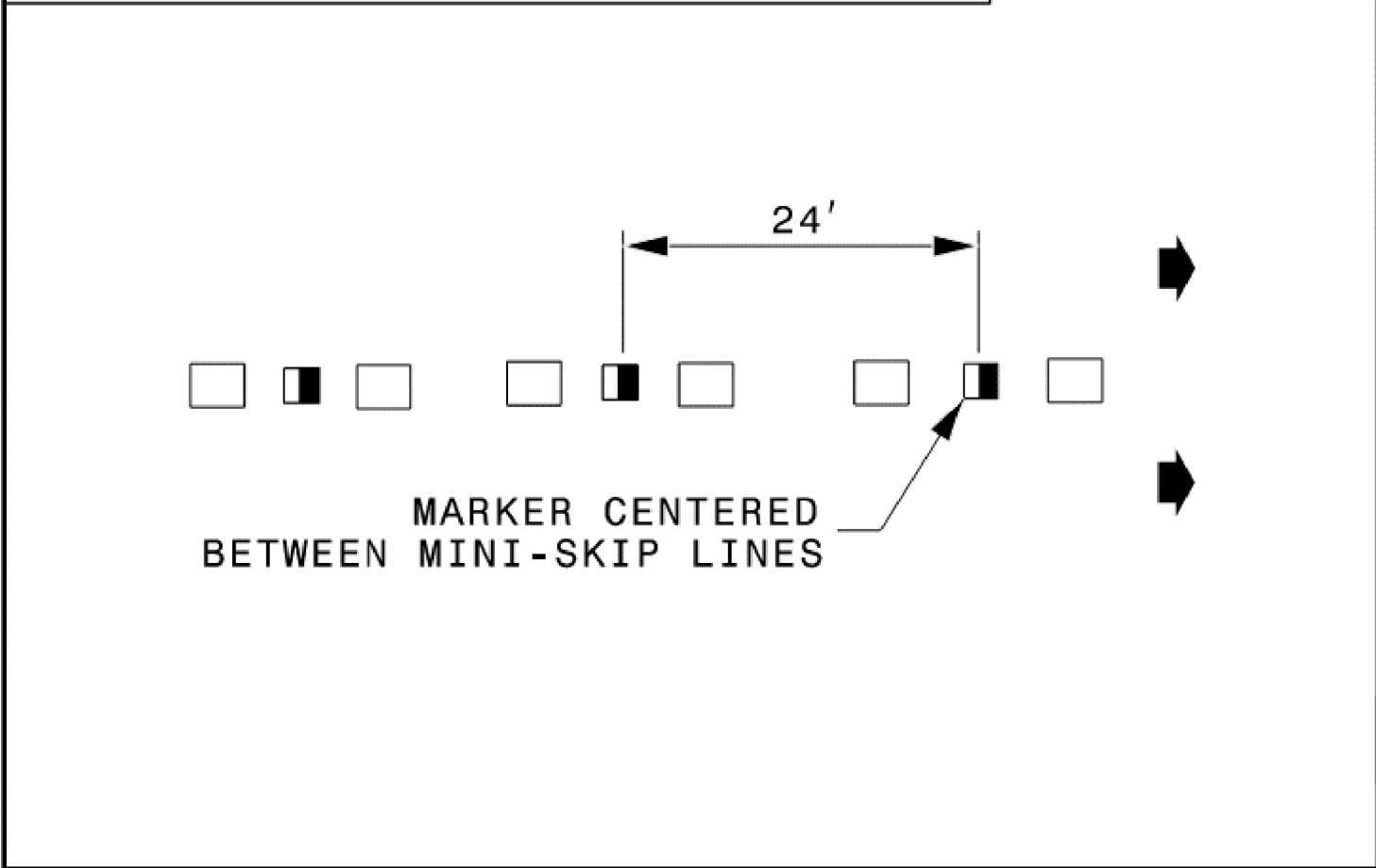
SEE TITLE BLOCK

ORIGINAL BY: M.V. SPRINGER DATE: 2-15-24
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

10'-30'/SP SKIP LINE



3'-9'/SP MINI-SKIP LINE



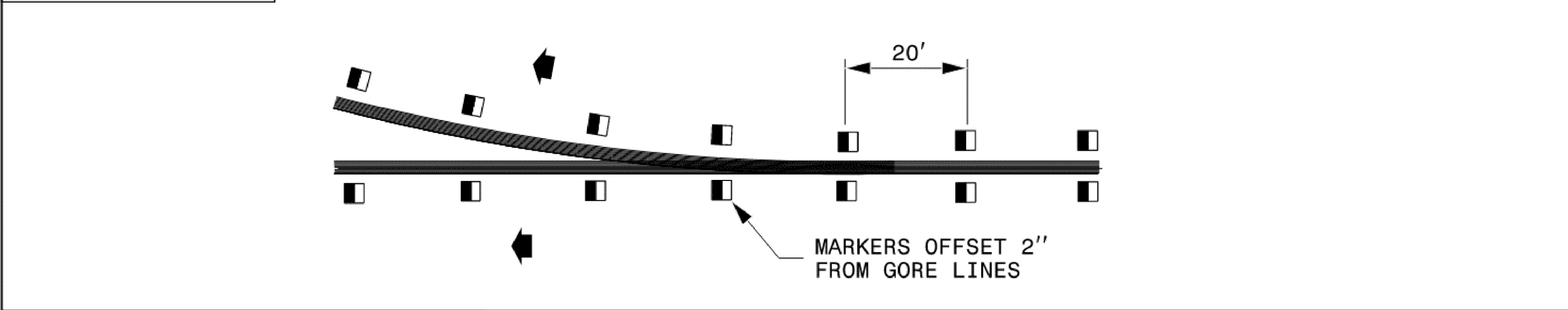
LEGEND

CRYSTAL/RED PAVEMENT MARKER

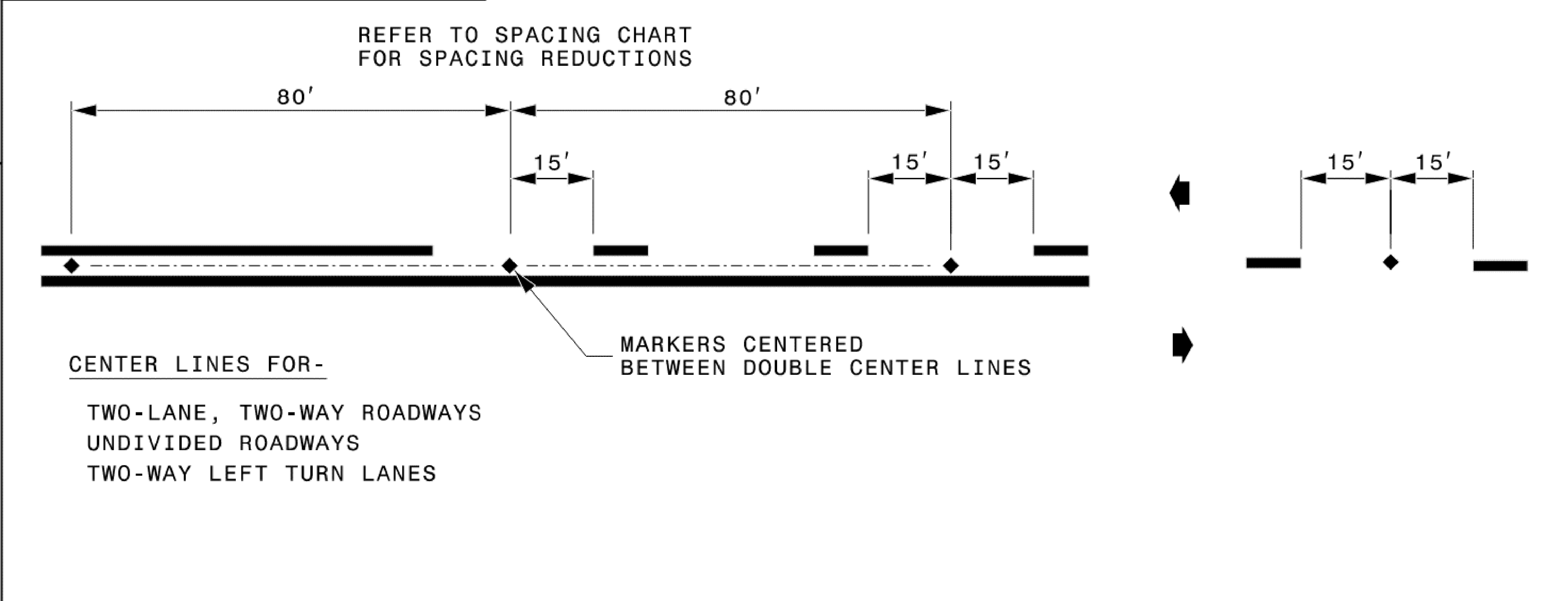
YELLOW/YELLOW PAVEMENT MARKER

DIRECTION OF TRAFFIC FLOW

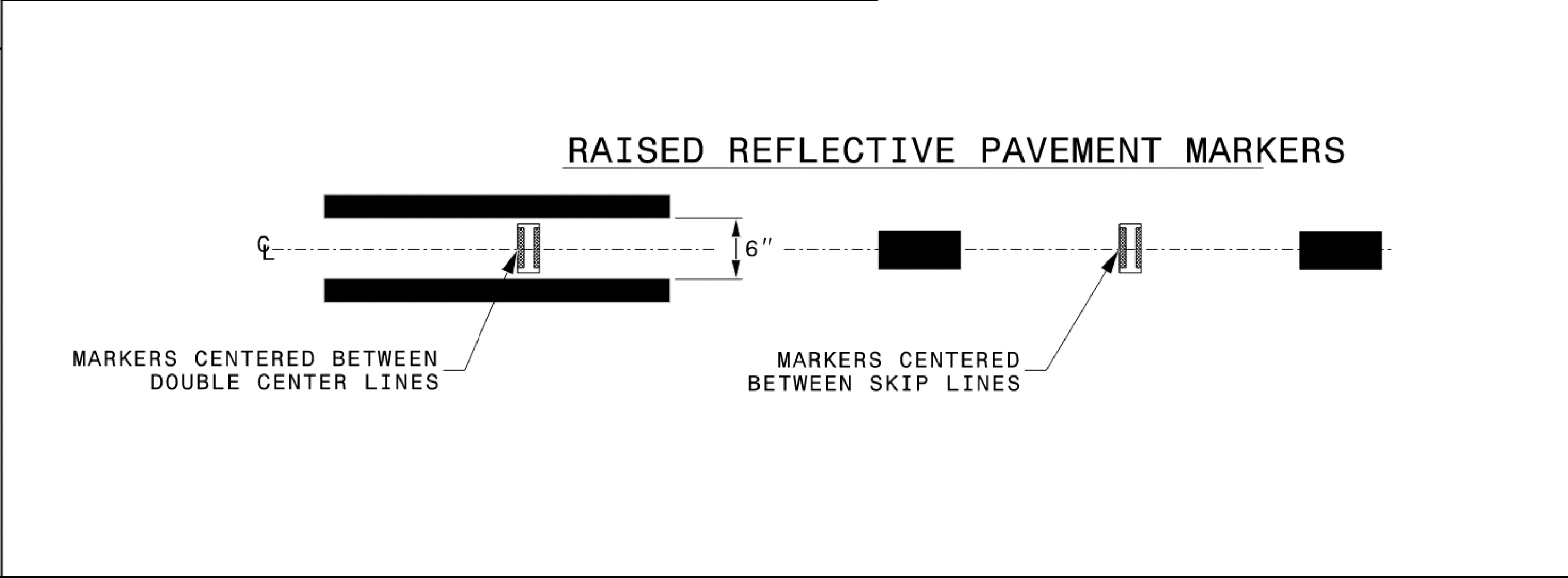
GORE LINES



YELLOW CENTER LINES



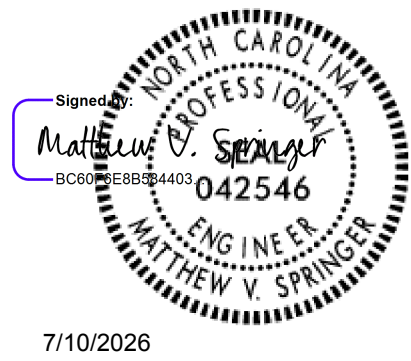
DETAIL OF PAVEMENT MARKER PLACEMENT



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

ROADWAY DETAIL DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 2 OF 3
1250D01



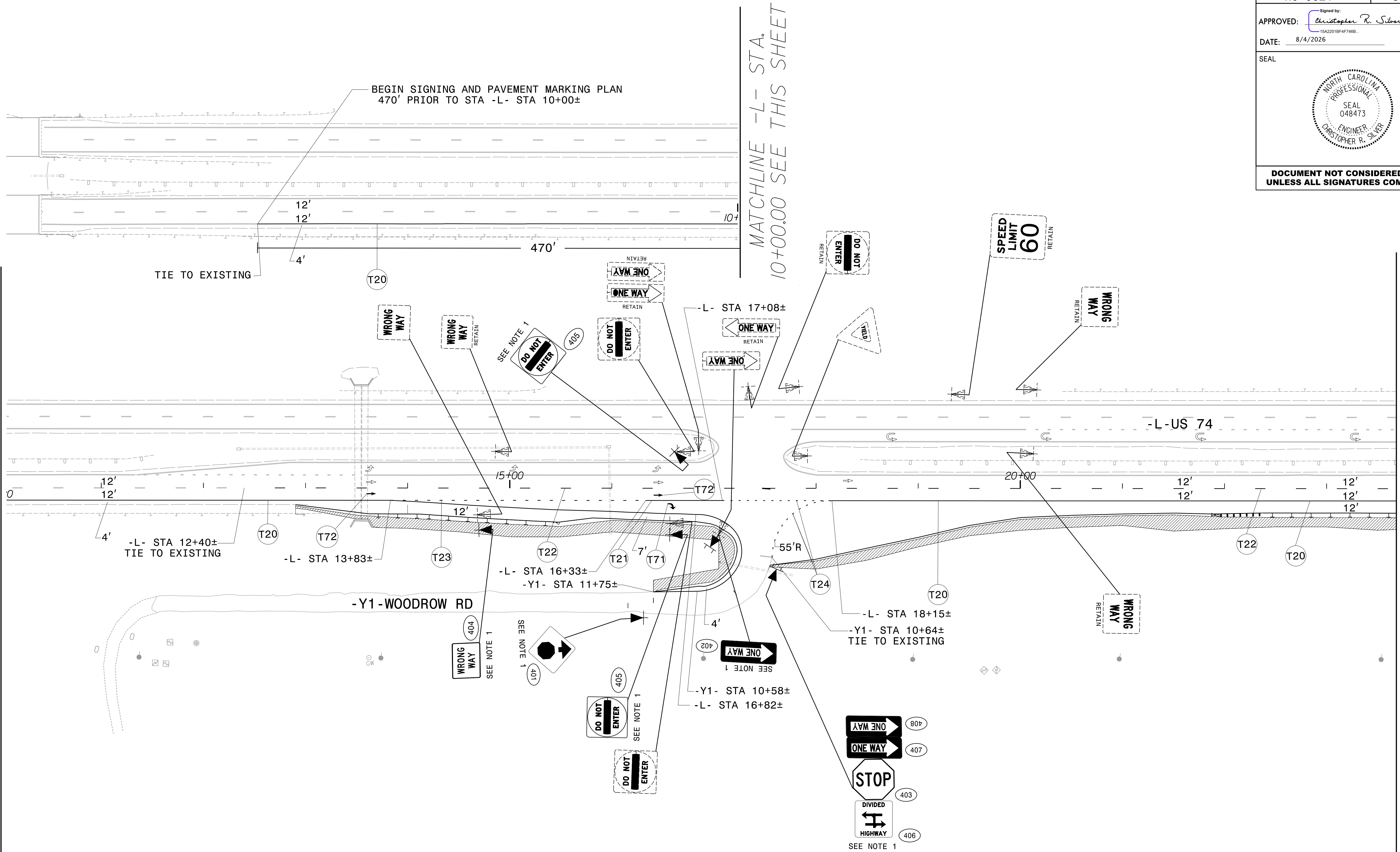
7/10/2026

CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: M.V. SPRINGER DATE: 2-15-24
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:

MATCHLINE -L- STA.10+00.00 SEE THIS SHEET



ARTICULATING CONCRETE BLOCK MATTING (ACBM)
REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION

NOTE: INSTALL U-CHANNEL POSTS IN GAPS
BETWEEN THE CONCRETE BLOCKS OF THE ACBM

PROJECT NOTES

1. SIGN ERECTION, TYPE D, E, AND F

SIGNING AND DELINEATION
LAYOUT

5/28/99

8/5/2026
C:\Users\mkking\OneDrive\mkking\Projects\H0_0021\RDY_XSC_1A.dgn
mkking

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS SECTION SUMMARY

Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)	Y2	(cu. yd.)	(cu. yd.)
12+90.22	0	0	10+50	0	0
13+00	2	1	11+00	20	2
13+50	12	8	11+50	15	5
14+00	10	10	12+00	15	4
14+50	16	8	12+01.10	0	0
15+00	17	6			
15+50	14	12			
16+00	12	13			
16+50	21	6			
17+00	31	5			
17+22.74	15	2			
17+53.27	0	0			
18+00	23	1			
18+50	23	3			
19+00	20	8			
19+50	20	12			
20+00	20	12			
20+50	17	6			
21+00	17	3			
21+50	20	9			
22+00	20	14			
22+50	21	12			
23+00	22	9			
23+50	24	10			
24+00	26	9			
24+50	24	5			
25+00	24	8			
25+50	24	16			
26+00	23	20			
26+50	22	14			
27+00	26	5			
27+50	26	9			
28+00	24	14			
28+35.74	19	10			

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

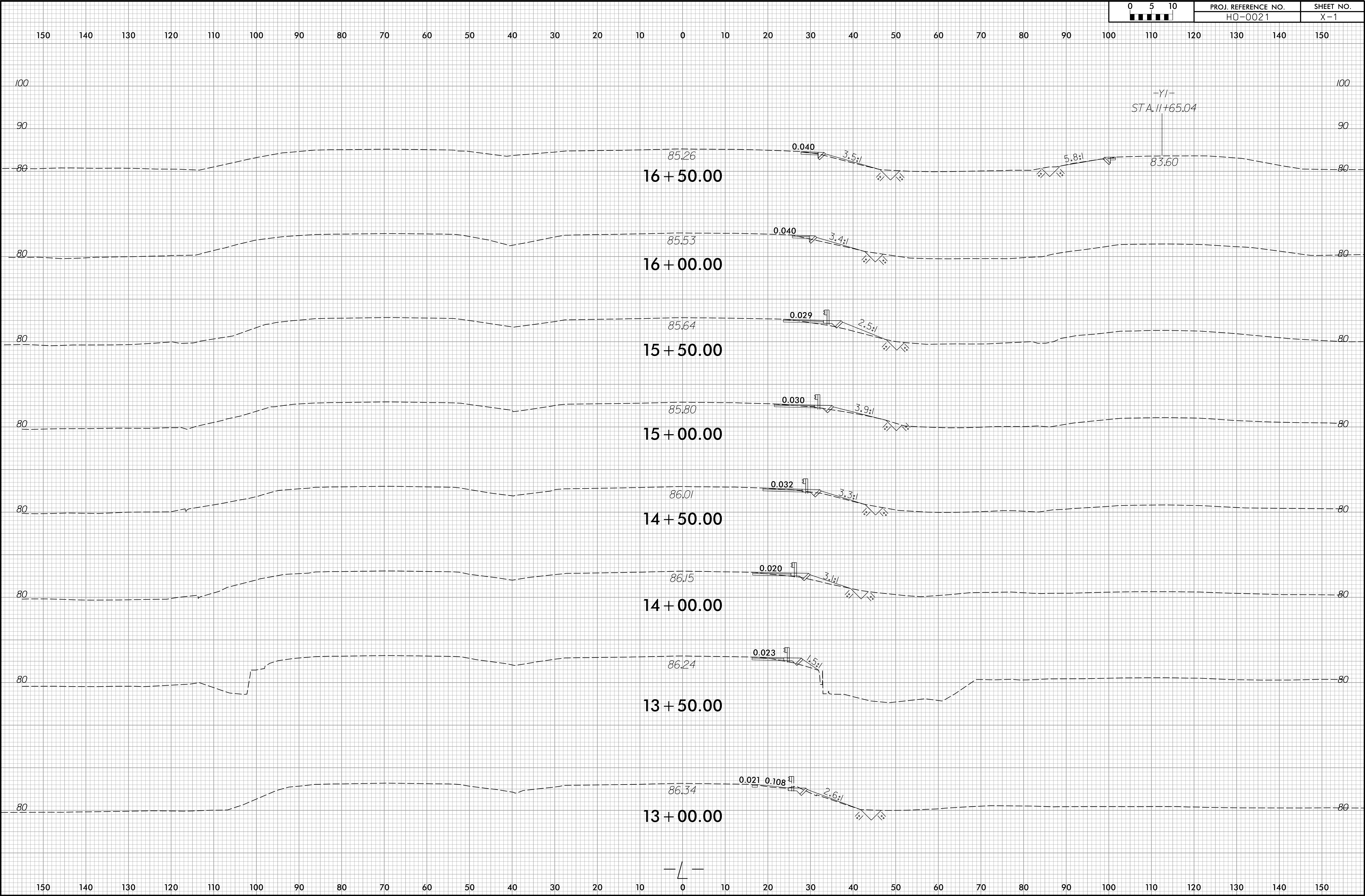
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P: (919) 878-9560
8601 Six Forks Road, Forum 1, Suite 700
Raleigh, North Carolina 27615-3960
NC License No. F-0112

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6/23/16

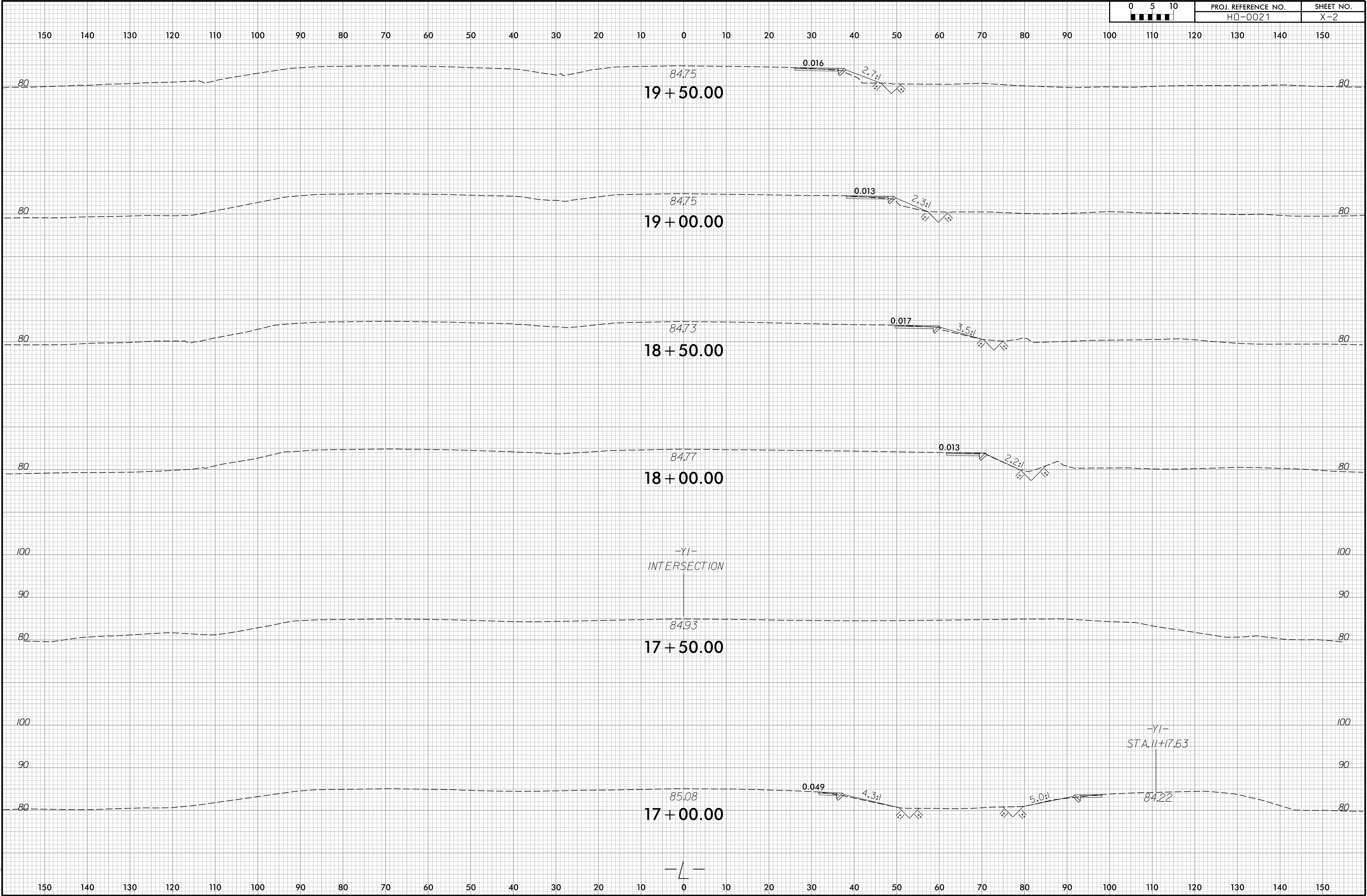
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6/23/16

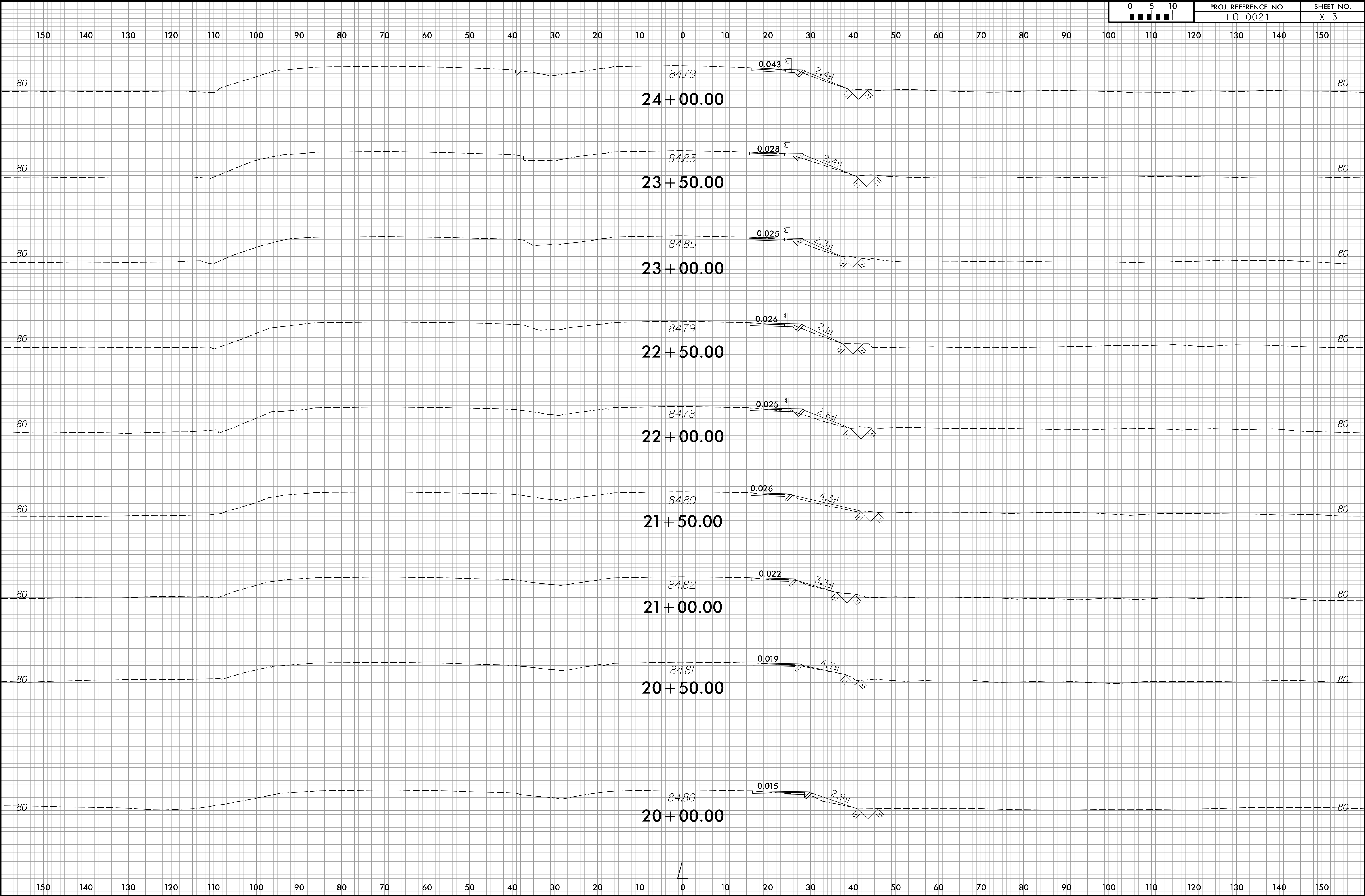
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■	■	■	H0-0021	X-2



6/23/16

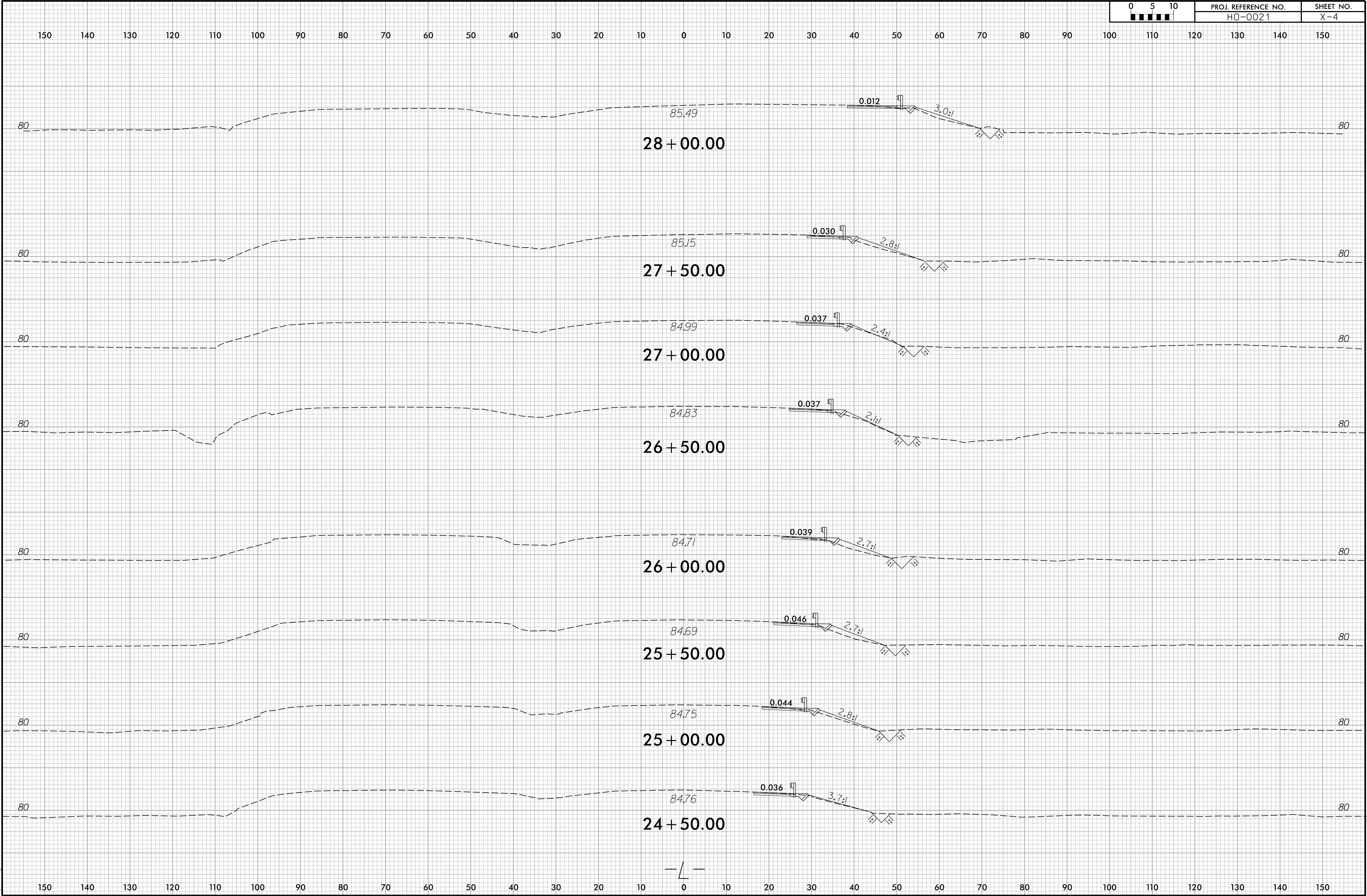
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■	■	■	HO-0021	X-3



7/29/2026
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6/23/16

7/29/2026
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