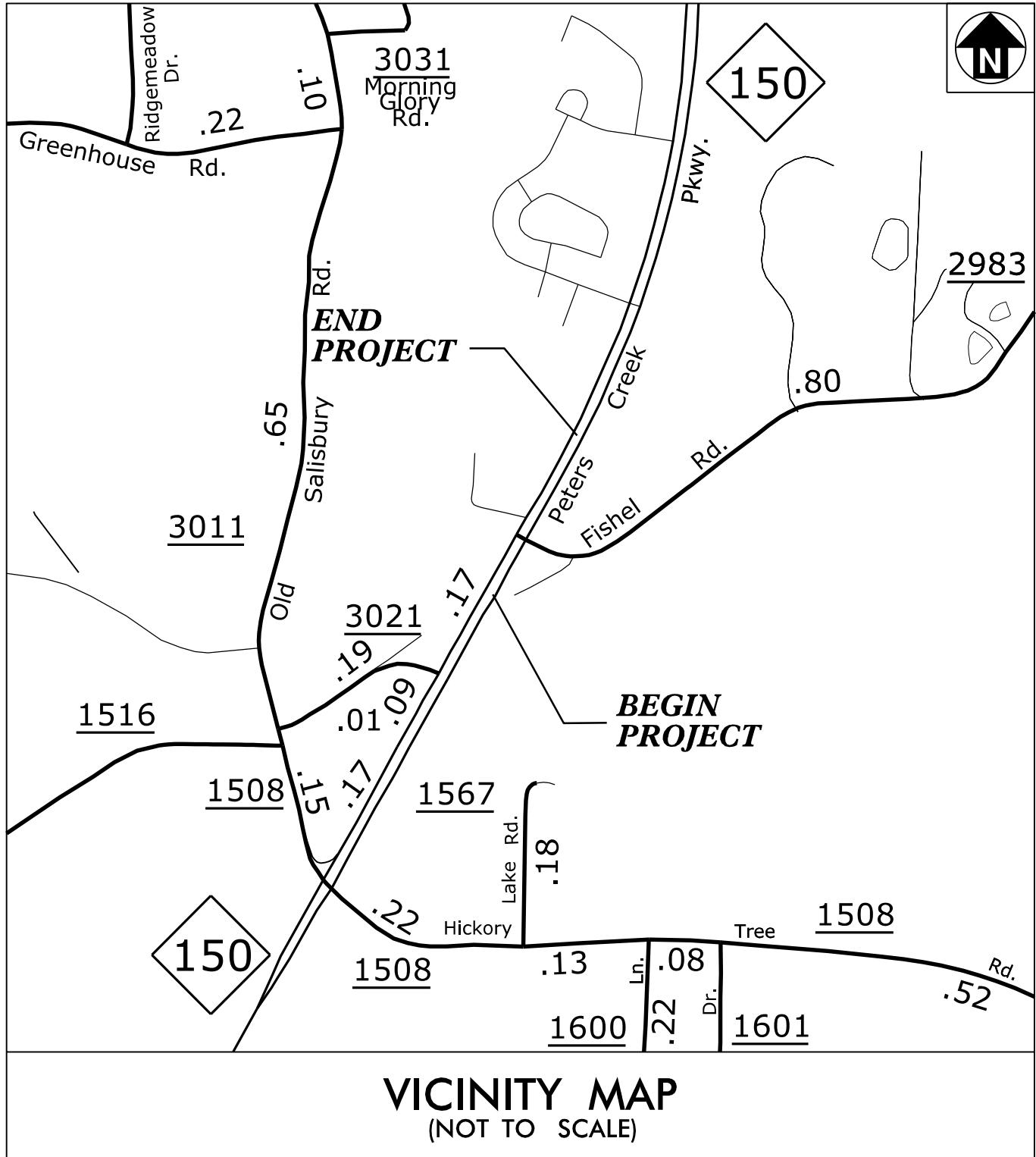


09/08/24

TIP PROJECT: HS-2409A

CONTRACT: DI00365



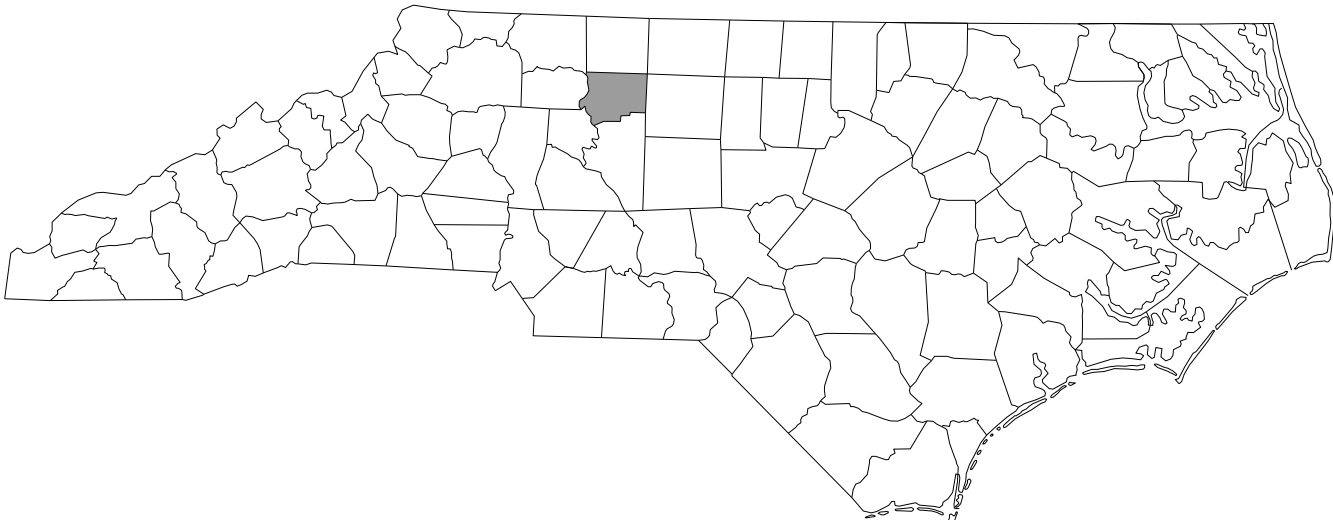
VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

LOCATION: INTERSECTION OF NC 150 AND SR 2983 (FISHEL ROAD)

TYPE OF WORK: GRADING, PAVING, & DRAINAGE

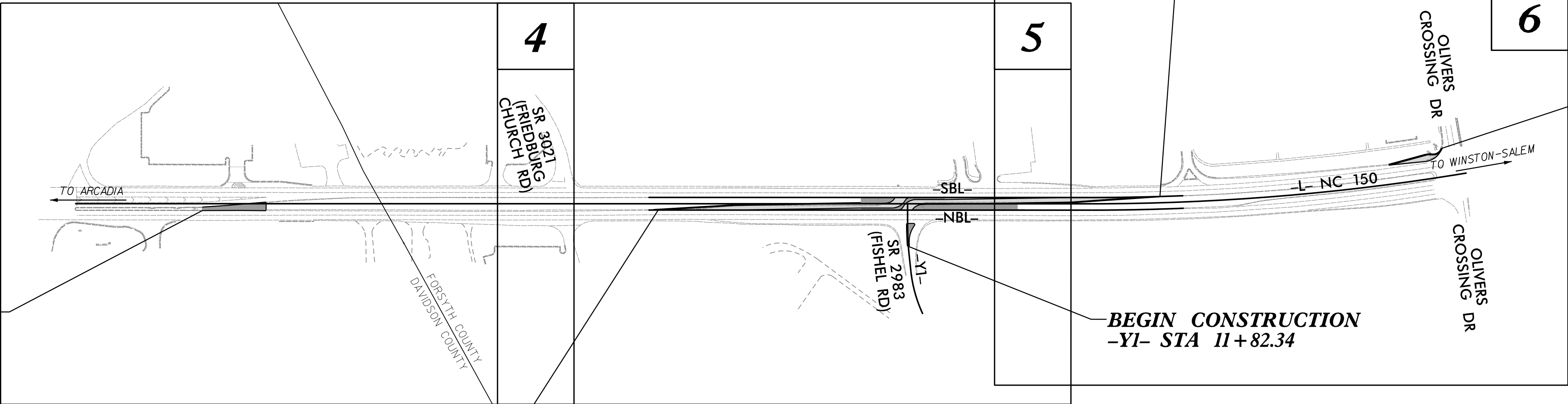


BEGIN CONSTRUCTION
-L- STA 13+32.83

BEGIN PROJECT
HS-2409A
-L- STA 25+13.52

END PROJECT
HS-2409A
-L- STA 38+38.55

END CONSTRUCTION
-L- STA 45+91.03



PLANS PREPARED BY:



231 16TH AVE. NE
HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

V = 60 MPH

FUNC CLASS =
PRINCIPAL ARTERIAL

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT HS-2409A = 0.251 MILES

Prepared in the Office of:
MATTERN & CRAIG

231 16TH AVE NE
HICKORY, NC 28601
FOR NCDOT DIVISION OF HIGHWAYS

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
FEBRUARY 26, 2025

BRIAN R. NEWMAN, PE
PROJECT ENGINEER

MENG YANG, PE
PROJECT DESIGN ENGINEER

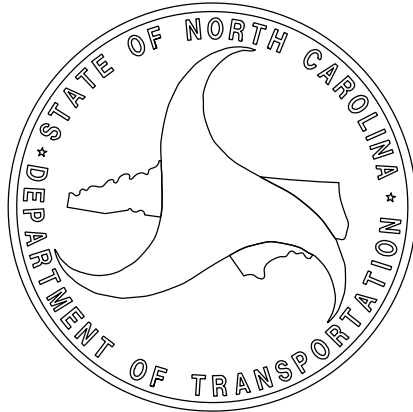
AL BLANTON, PE, PLS
NCDOT DIVISION 9 CONTACT

HYDRAULICS ENGINEER

Signed by:
Aron C. Carver
8250B42A220F49C...
P.E.
12/5/2024

ROADWAY DESIGN
ENGINEER

Signed by:
Meng Yang
36E70013BCE44E1...
P.E.
12/5/2024



PROJECT REFERENCE NO.
HS-2409A

SHEET NO.
1A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA
PROFESSIONAL
SEAL
053836

ENGINEER
MENG YANG

Signed by
Meng Yang
11/15/2024

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL PLAN SHEET SYMBOLS
2A-1	PAVEMENT SCHEDULE & TYPICAL SECTIONS
2B-1	INTERSECTION DETAIL SHEET
2C-1	SPECIAL DETAIL
3B-1	SUMMARY OF EARTHWORK
3D-1	DRAINAGE SUMMARIES
4 thru 6	PLAN SHEETS AND PROFILE SHEETS
TMP-1 thru TMP-7	TRAFFIC MANAGEMENT PLANS
PMP-1 thru PMP-4	PAVEMENT MARKING PLANS
EC-1 thru EC-6	EROSION CONTROL PLANS
SIGN-1 thru SIGN-5	SIGNING PLANS
X-0	CROSS SECTION SUMMARY SHEETS
X-1 thru X-7	CROSS SECTIONS

GENERAL NOTES

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.
SUPERELEVATION:	ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.
SHOULDER CONSTRUCTION:	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01
SUBSURFACE PLANS:	NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.
UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE PIEDMONT NATURAL GAS ATT CITY OF WINSTON-SALEM DUKE ENERGY VERIZON CHARTER COMMUNICATIONS ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

STANDARD DRAWINGS

2024 ROADWAY ENGLISH STANDARD DRAWINGS	EFF. 01-16-2024 REV.
STD.NO.	TITLE
DIVISION 2 – EARTHWORK	
225.02	Guide for Grading Subgrade – Secondary and Local
225.05	Method of Obtaining Superelevation – Divided Highways
DIVISION 3 – PIPE CULVERTS	
300.01	Method of Pipe Installation (Use Details in Lieu of Standards for Sheets 1 and 2 of 2)
DIVISION 5 – SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction – High Side of Superelevated Curve – Method I
DIVISION 8 – INCIDENTALS	
840.01	Brick Catch Basin – 12” thru 54” Pipe
840.02	Concrete Catch Basin – 12” thru 54” Pipe
840.14	Concrete Drop Inlet – 12” thru 30” Pipe
840.15	Brick Drop Inlet – 12” thru 30” Pipe
840.16	Drop Inlet Frame and Grates – for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type ‘B’ – 12” thru 36” Pipe
840.22	Frames and Wide Slot Sag Grates
840.27	Brick Grated Drop Inlet Type ‘B’ – 12” thru 36” Pipe
840.31	Concrete Junction Box – 12” thru 66” Pipe
840.32	Brick Junction Box – 12” thru 66” Pipe
840.54	Manhole Frame and Cover
846.01	Concrete Curb, Gutter and Curb & Gutter
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands



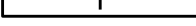
231 16TH AVE, NE
HICKORY, NC 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

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	
Single Tree	
Single Shrub	
Hedge	

VEGETATION:

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:

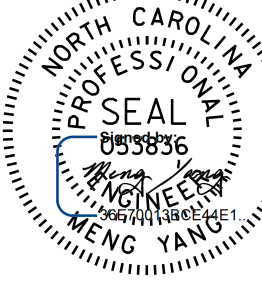
Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE – LOS A)*	
U/G Gas Line (SUE – LOS B)*	
U/G Gas Line (SUE – LOS C)*	
U/G Gas Line (SUE – LOS D)*	
Above Ground Gas Line	

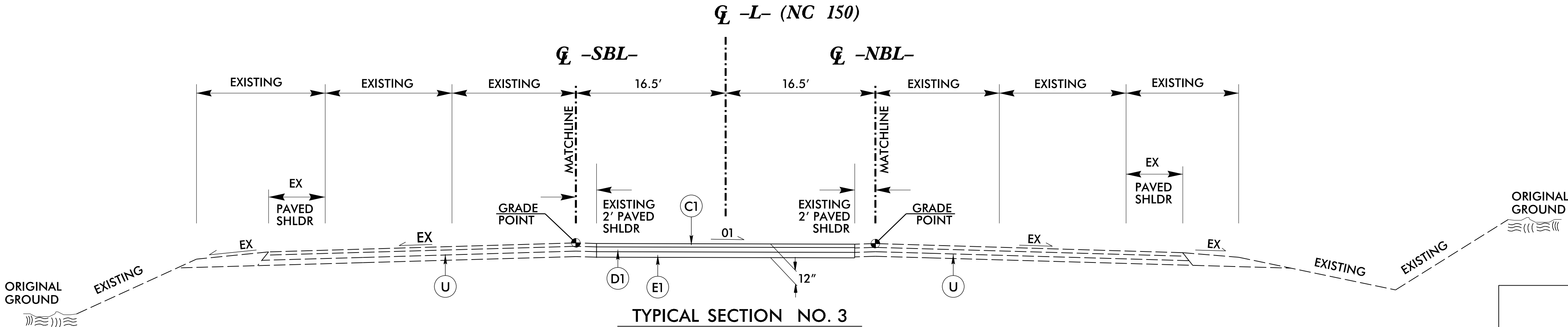
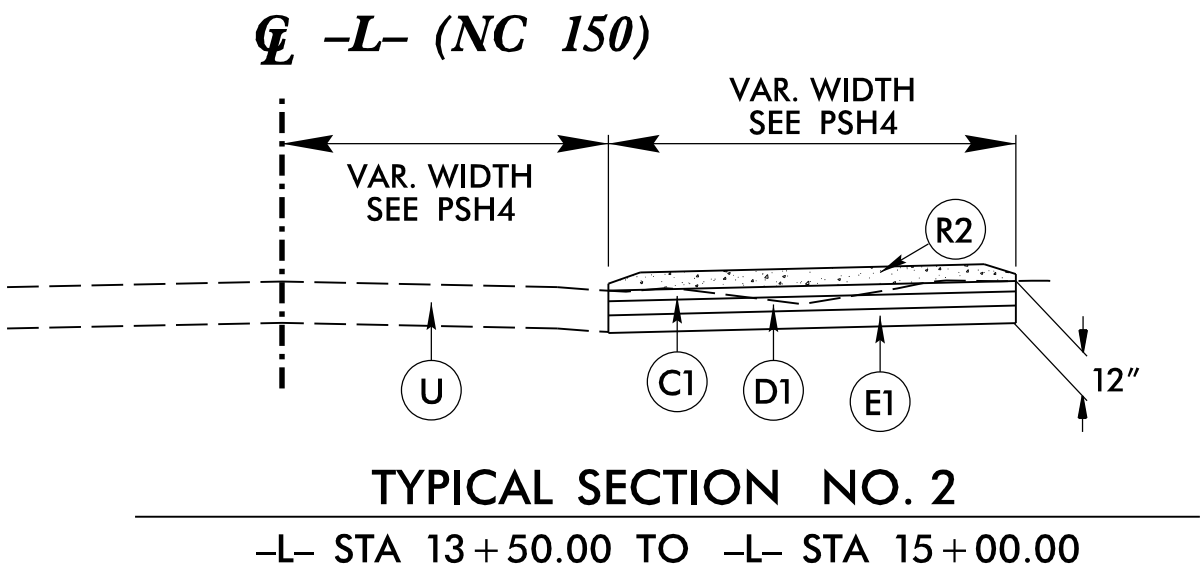
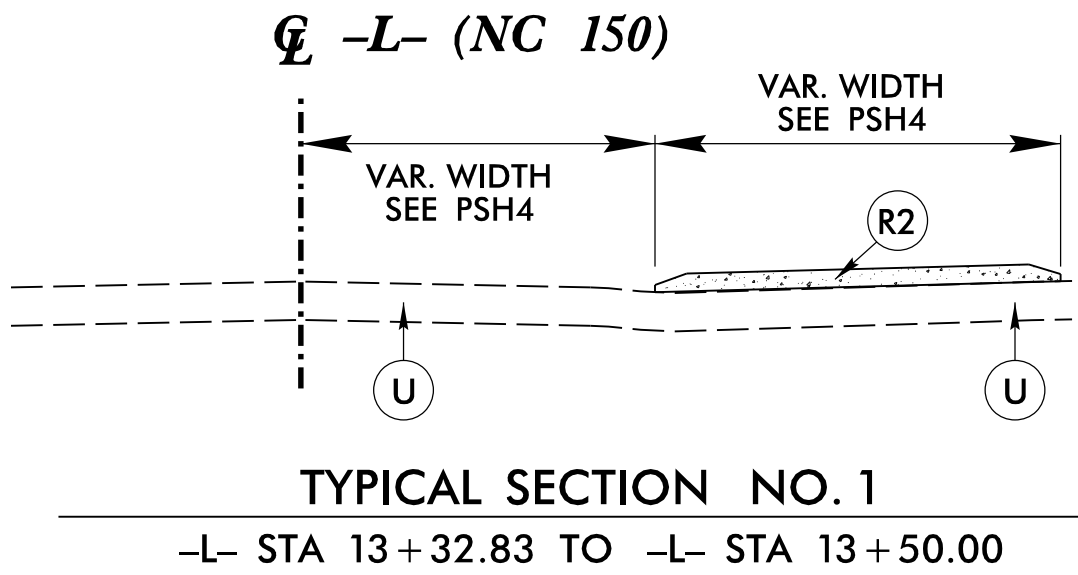
SANITARY SEWER:

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)*	

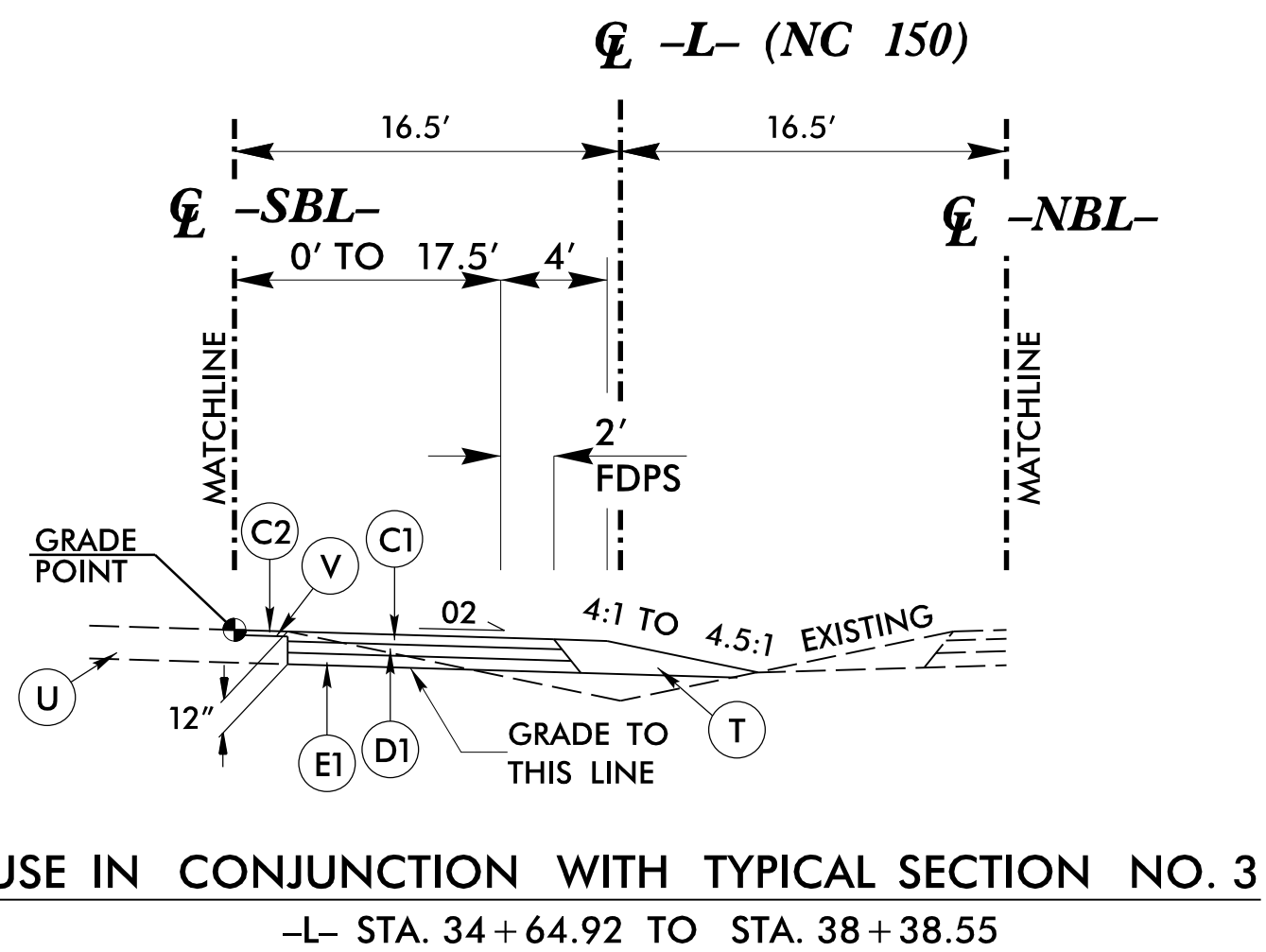
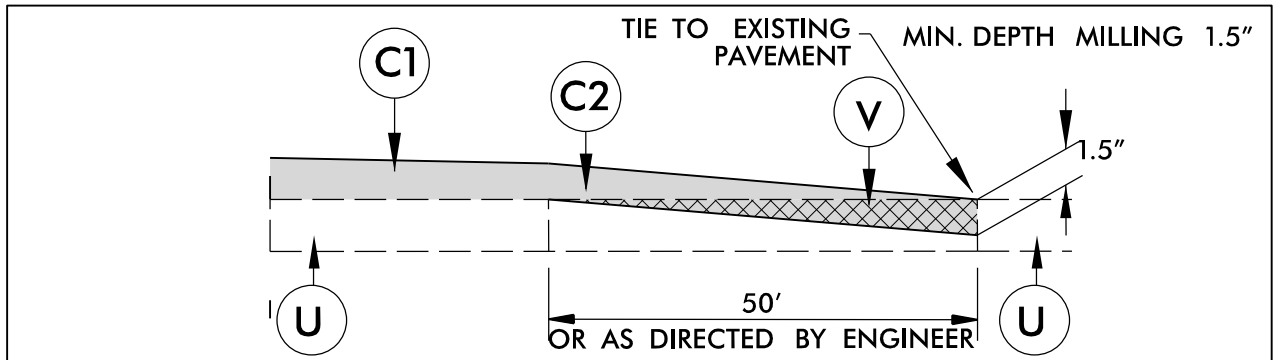
MISCELLANEOUS:

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	

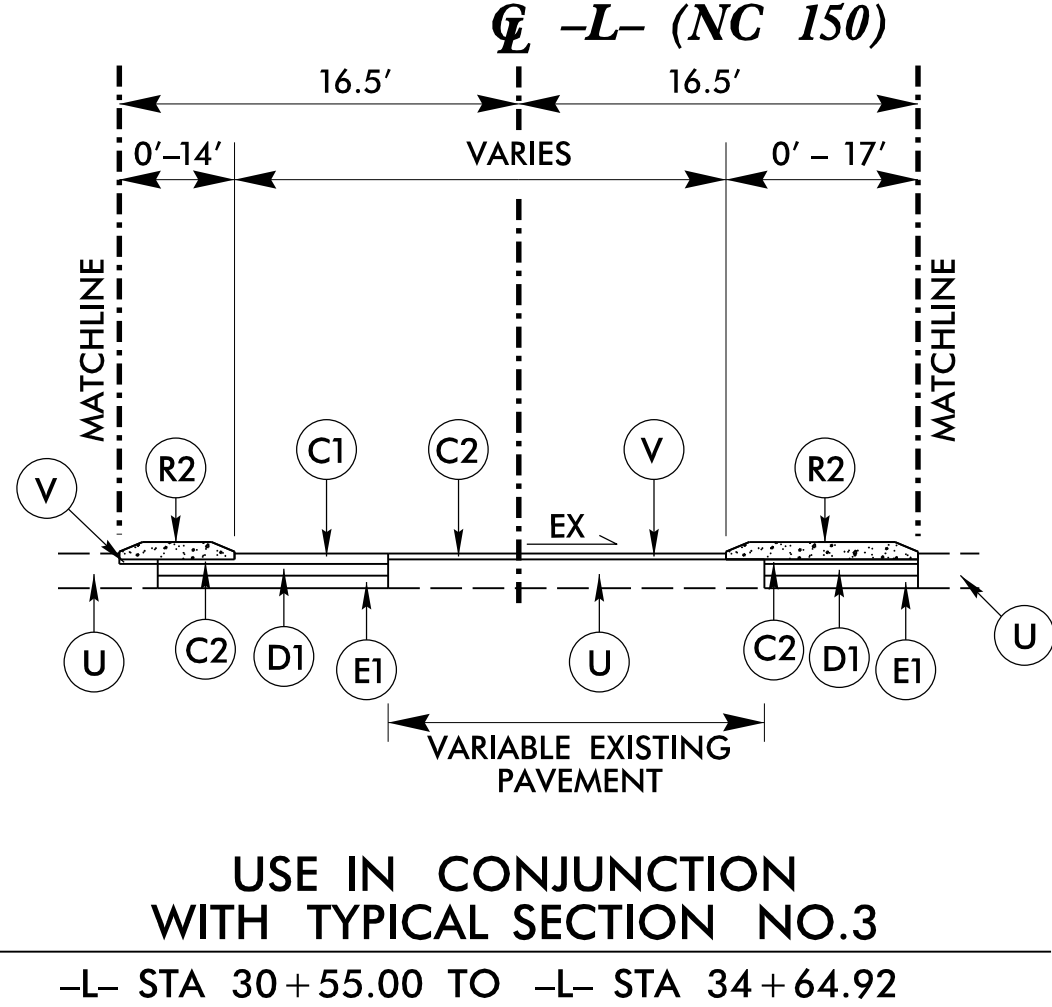
PROJECT REFERENCE NO.		SHEET NO.
HS-2409A		2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER	
		
11/19/2024		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



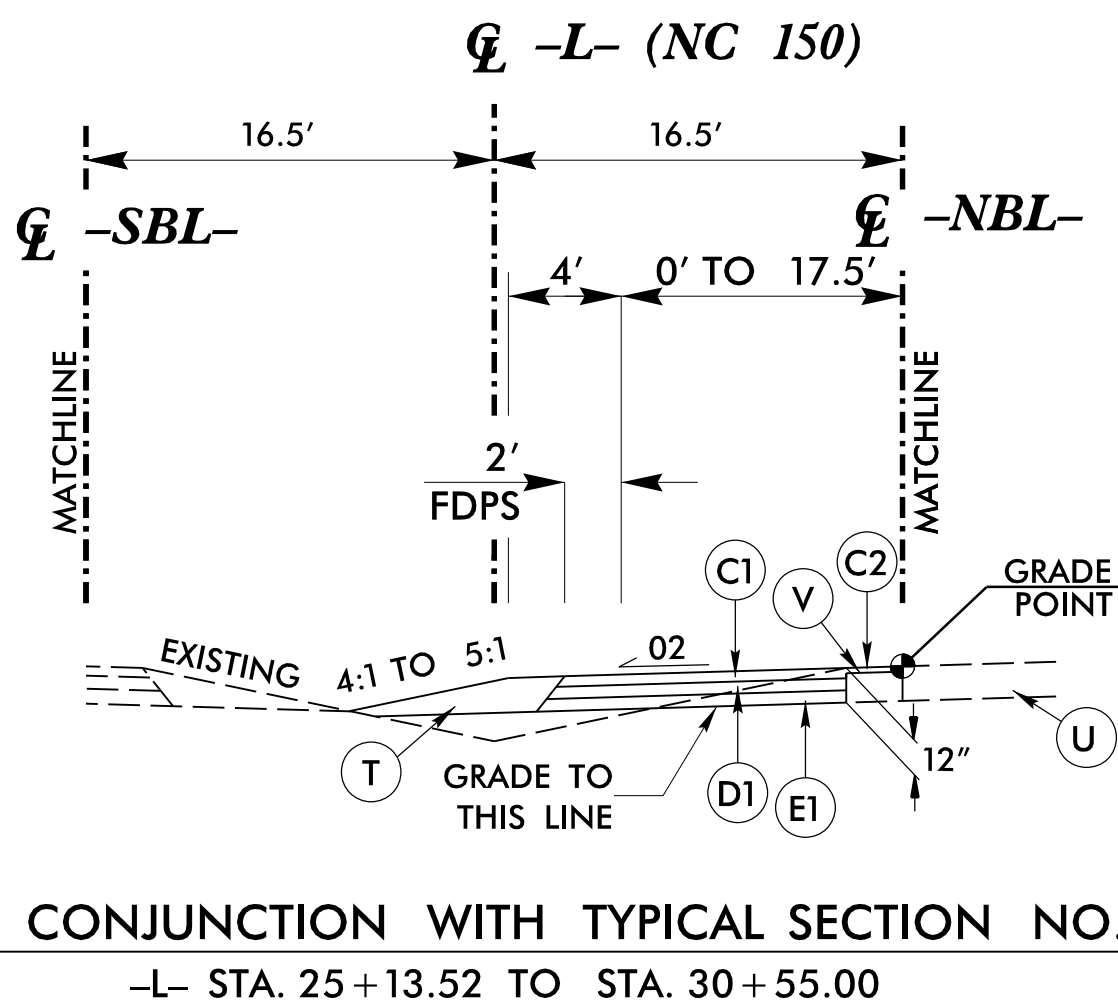
USE TYPICAL SECTION NO. 3
L- STA. 25+13.52 TO STA. 38+38.55



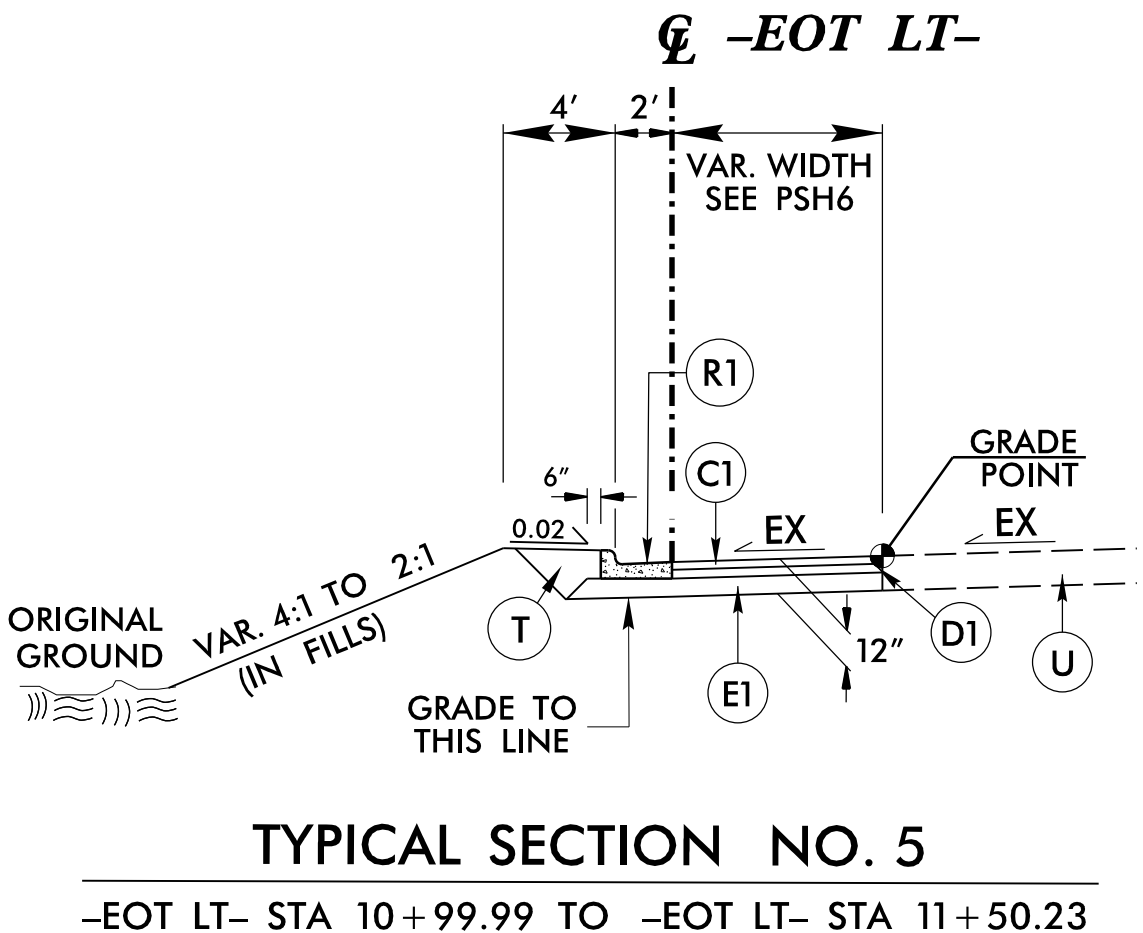
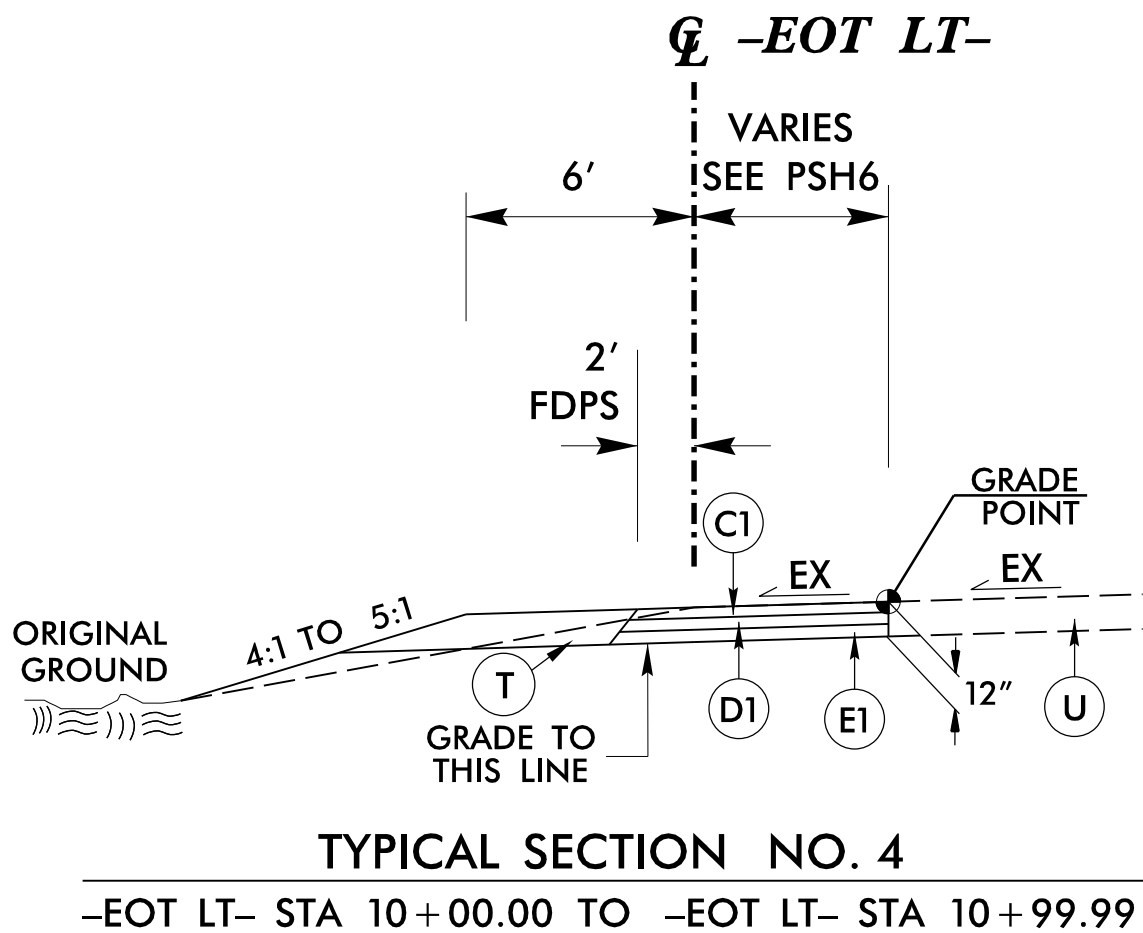
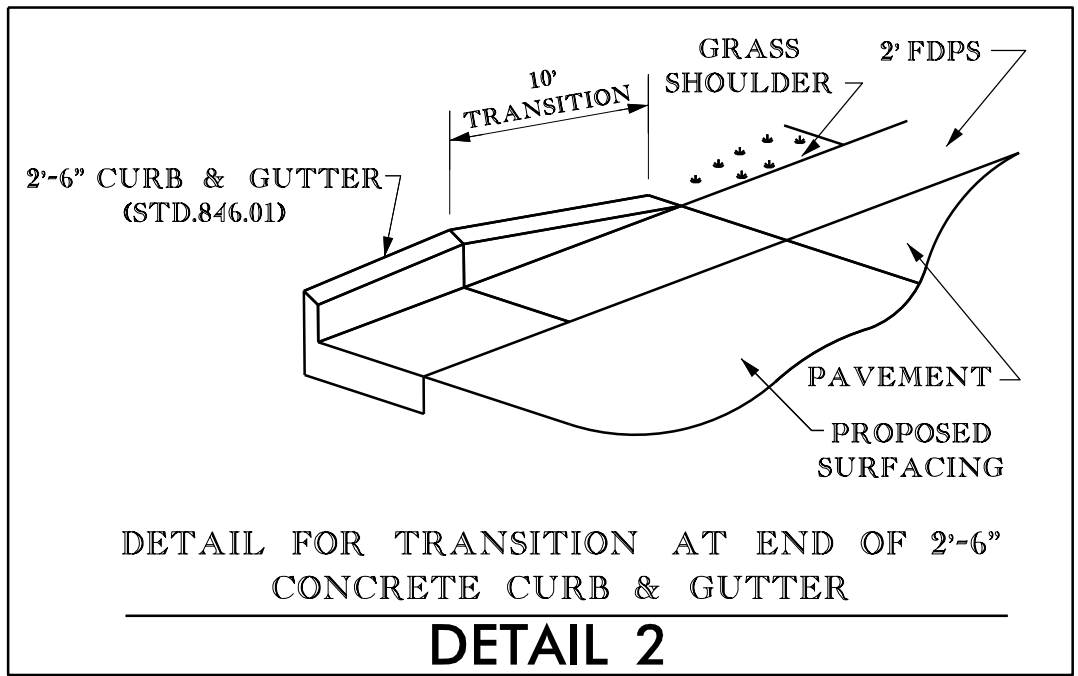
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3
L- STA. 34+64.92 TO STA. 38+38.55



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3
L- STA 30+55.00 TO L- STA 34+64.92



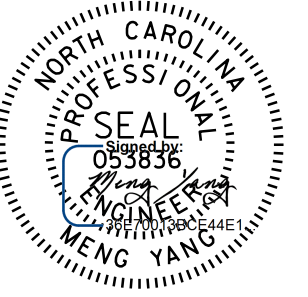
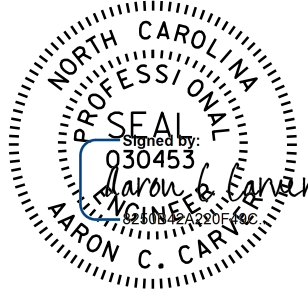
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 3
L- STA. 25+13.52 TO STA. 30+55.00

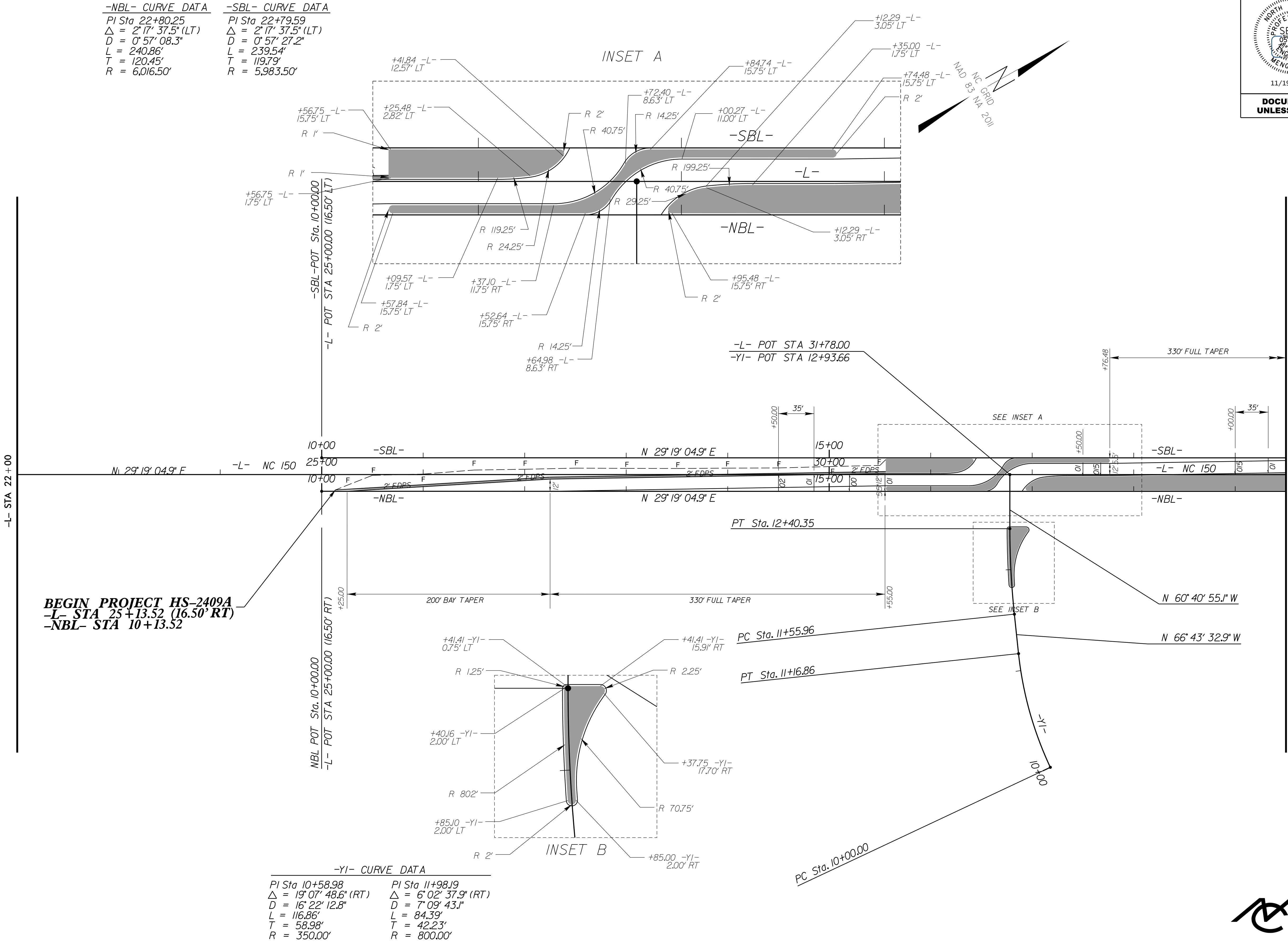


PAVEMENT DESIGN SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R1	2'-6" CURB & GUTTER
R2	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	MILLING (1.5" DEPTH)

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

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
11/19/2024	11/19/2024
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



231 16TH AVE. NE
HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

SEE TITLE BLOCK

6/21/20

COMPUTED BY: MY	DATE: 8/28/24
CHECKED BY: ACC	DATE: 8/29/24

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	3B-1

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS					
LINE	LOCATION	ASPHALT REMOVAL	ASPHALT BREAK-UP		
-L-	32 + 20.31 TO 34 + 64.94	67			
	TOTAL	67			
	SAY	70			

SUMMARY OF EARTHWORK

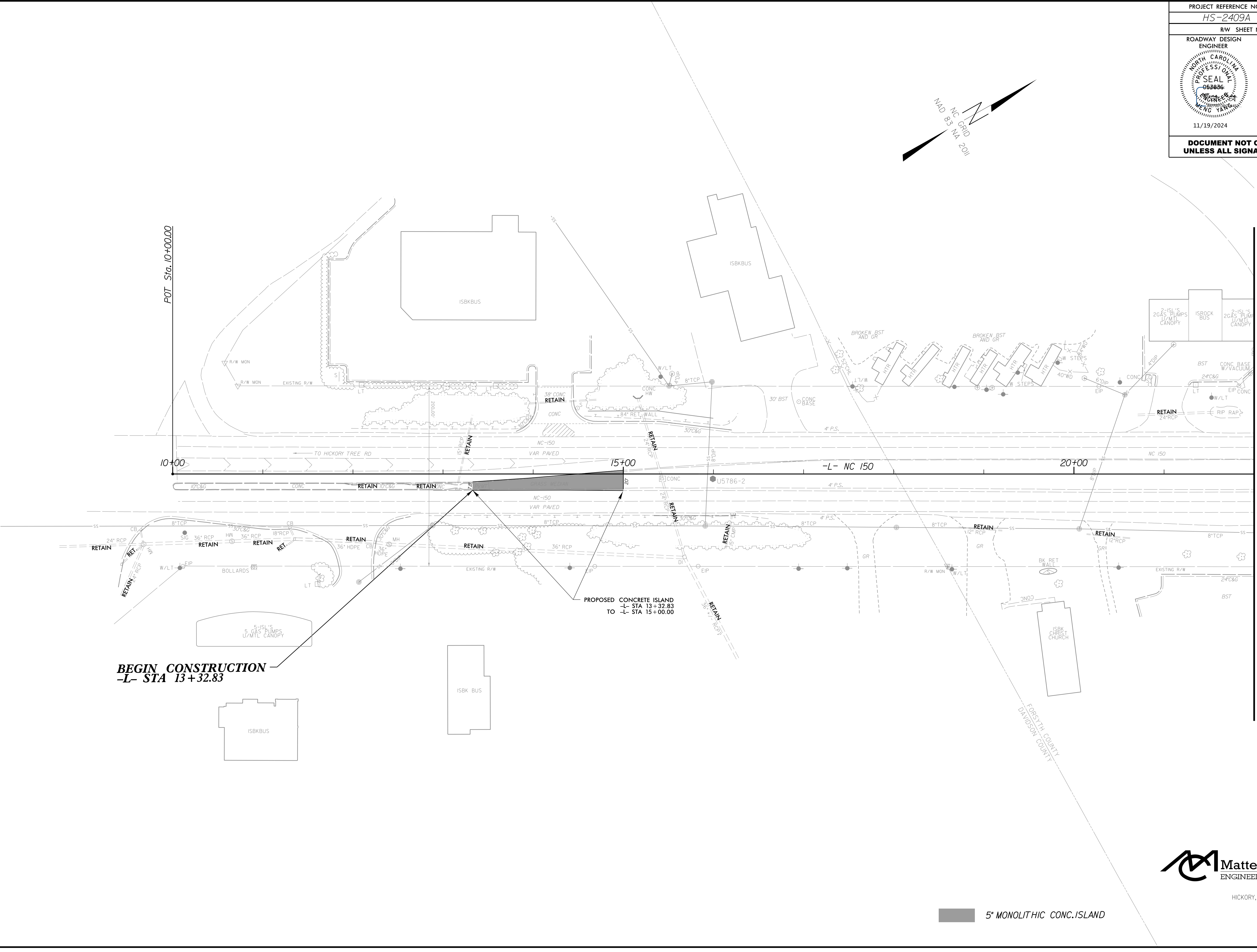
IN CUBIC YARDS					
LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- STA 25 + 13.52 TO -L- STA 38 + 38.55	151		109		42
-L- STA 44 + 45.50 TO -L- STA 45 + 91.03	41		37		4
SUMMARY TOTALS	192		146		46
EST. SHOULDER CONSTRUCTION				120	
WASTE IN LIEU OF BORROW				-46	-46
PROJECT TOTAL	192		146	74	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				4	
GRAND TOTAL	192		146	78	0
SAY	200			80	

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

[illegible]

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
11/19/2024	11/19/2024
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BEGIN CONSTRUCTION
-L- STA 13+32.83

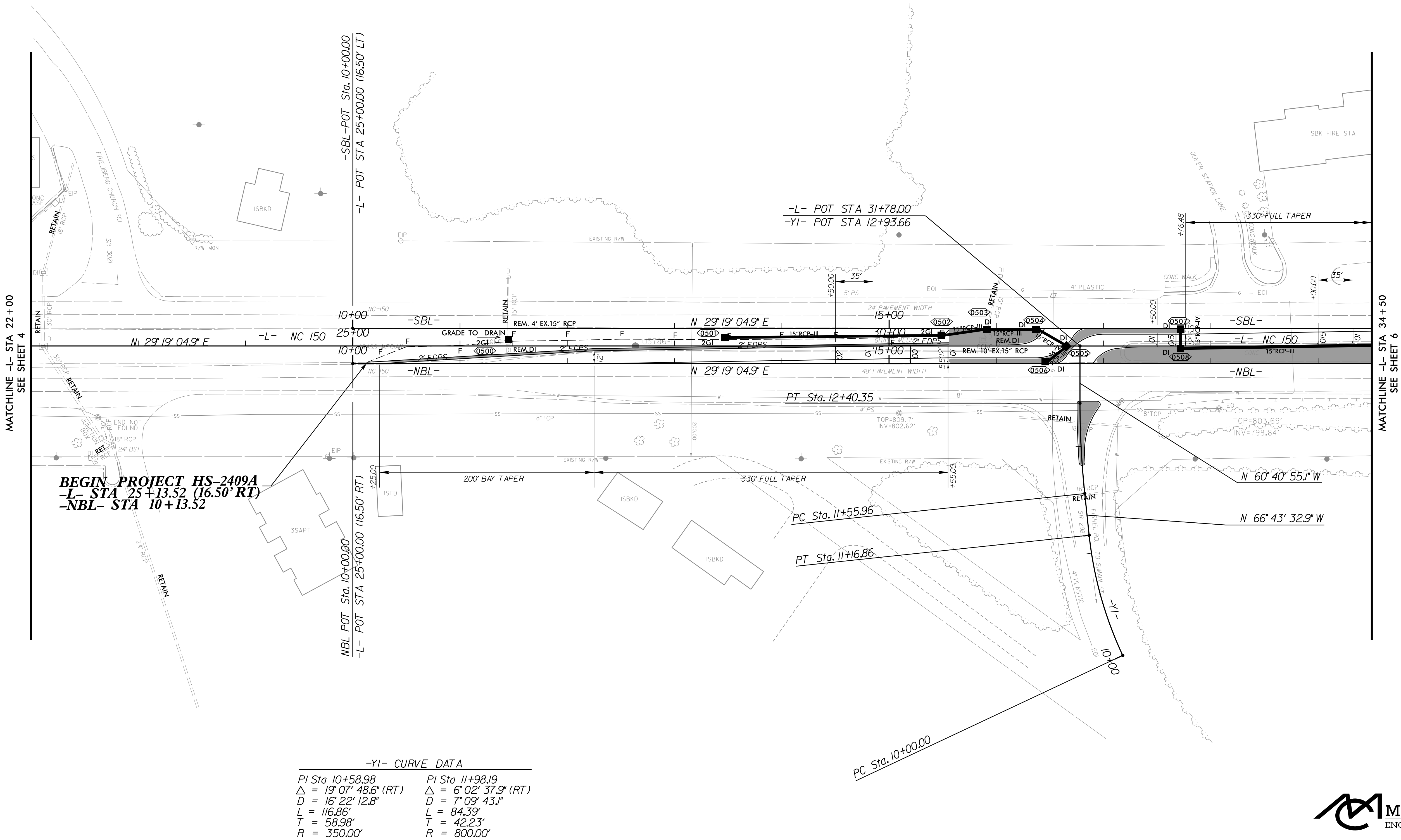
PROPOSED CONCRETE ISLAND
-L- STA 13+32.83
TO -L- STA 15+00.00

5' MONOLITHIC CONC. ISLAND

MATCHLINE -L- STA 22+00
SEE SHEET 5

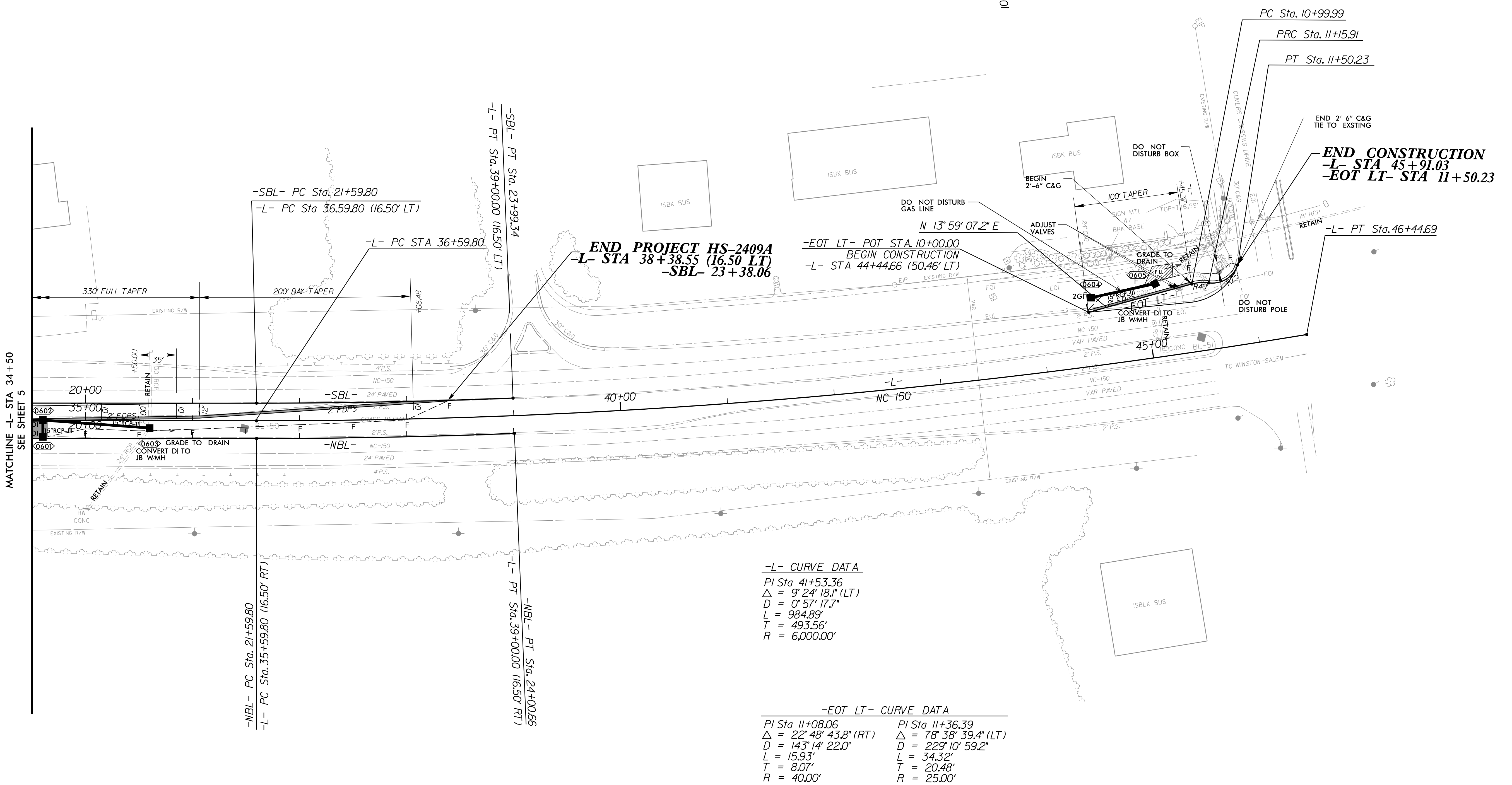
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
11/19/2024	11/19/2024
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



 **Mattern & Craig**
ENGINEERS • SURVEYORS

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FAX (540) 345-7691
NC LIC. NO. C-1154



09/08/99
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TIP PROJECT: HS-2409A

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2409A	RW01	01

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SURVEY CONTROL, EXISTING CENTERLINES,
PROPOSED ALIGNMENTS
FORSYTH & DAVIDSON COUNTY

PROPOSED ALIGNMENTS

L (EXISTING RETAINED)			
TYPE	STATION	NORTH	EAST
POT	10+00.00	819325.7673	1624877.1022
PC	36+59.80	821644.8873	1626179.4919
PT	46+44.69	822539.2713	1626589.2661

Y1 (EXISTING RETAINED)			
TYPE	STATION	NORTH	EAST
PC	10+00.00	821118.3079	1626214.6051
PT	11+16.86	821145.8743	1626101.6014
PC	11+55.96	821161.3236	1626065.6839
PT	12+40.35	821198.6911	1625990.0637
POT	12+93.66	821224.7985	1625943.5751

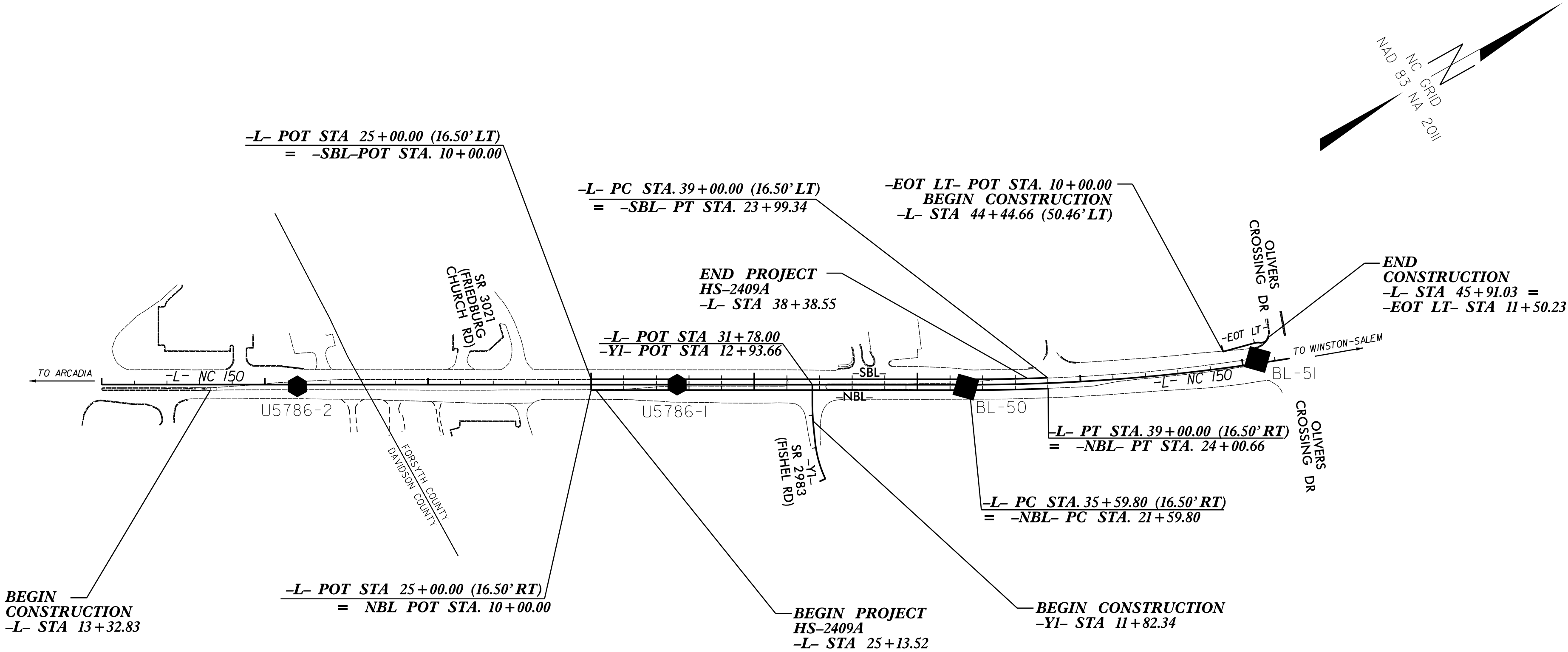
NBL			
TYPE	STATION	NORTH	EAST
POT	10+00.00	820625.5607	1625625.9743
PC	21+59.80	821636.8080	1626193.8785
PT	24+00.66	821849.1222	1626307.5829

SBL			
TYPE	STATION	NORTH	EAST
POT	10+00.00	820641.7194	1625597.2011
PC	21+59.80	821652.9666	1626165.1053
PT	23+99.34	821864.1163	1626278.1860

EOT_LT			
TYPE	STATION	NORTH	EAST
POT	10+00.00	822371.9003	1626471.4794
PC	10+99.99	822468.9232	1626495.6436
PRC	11+15.91	822483.2158	1626502.4276
PT	11+50.23	822514.8691	1626501.0319

SURVEY CONTROL

POINT	DESC.	NORTH	EAST	ELEVATION
BL -50	BL -50	821631.3760	1626180.2250	800.30
GPS -1	U5786 -1	820863.2950	1625740.7005	812.65
BL -51	BL -51	822452.4140	1626543.3440	780.76
GPS -2	U5786 -2	819845.7160	1625175.2891	827.18

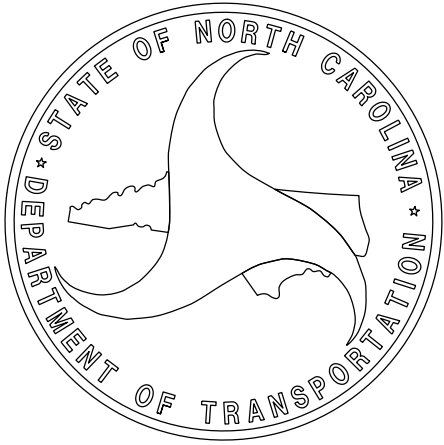


GRAPHIC SCALE
NOT TO SCALE

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U5786-3" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 816,461.3510 (ft) EASTING: 1,630,740.435 (ft) ELEVATION: 859.40 (ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999918818 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5786-3" TO -L- STATION 10+00.00 IS N 63-57'47.1" W 6,525.61 (ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:
DIVISION OF HIGHWAYS
NINTH DIVISION DESIGN/CONSTRUCT
375 SILAS CREEK PARKWAY WINSTON-SALEM, NC 27127
2024 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: N/A
LETTING DATE: FEBRUARY, 26 2025

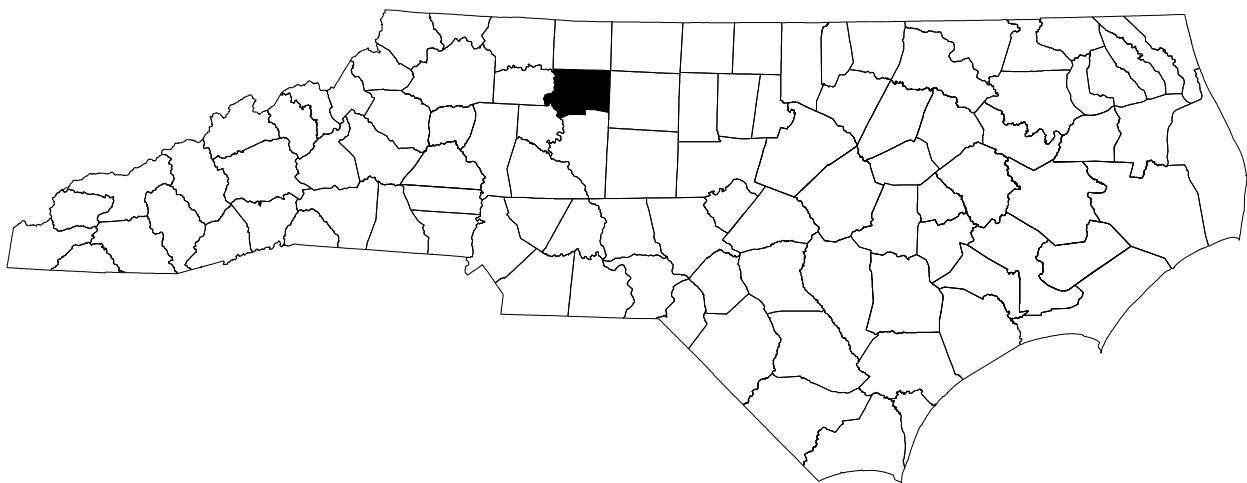
PROFESSIONAL LAND SURVEYOR
Seal: NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-5635
DANIEL C. URICH
SIGNATURE: _____ Date: _____



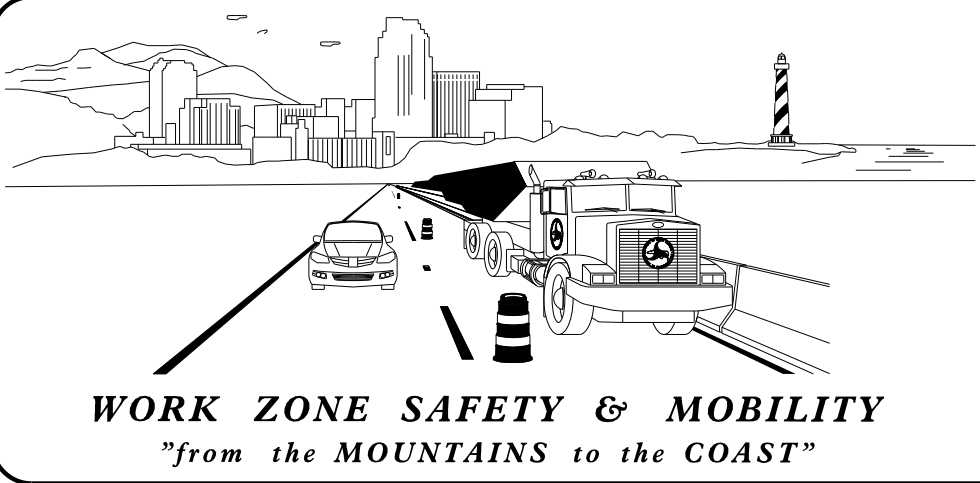
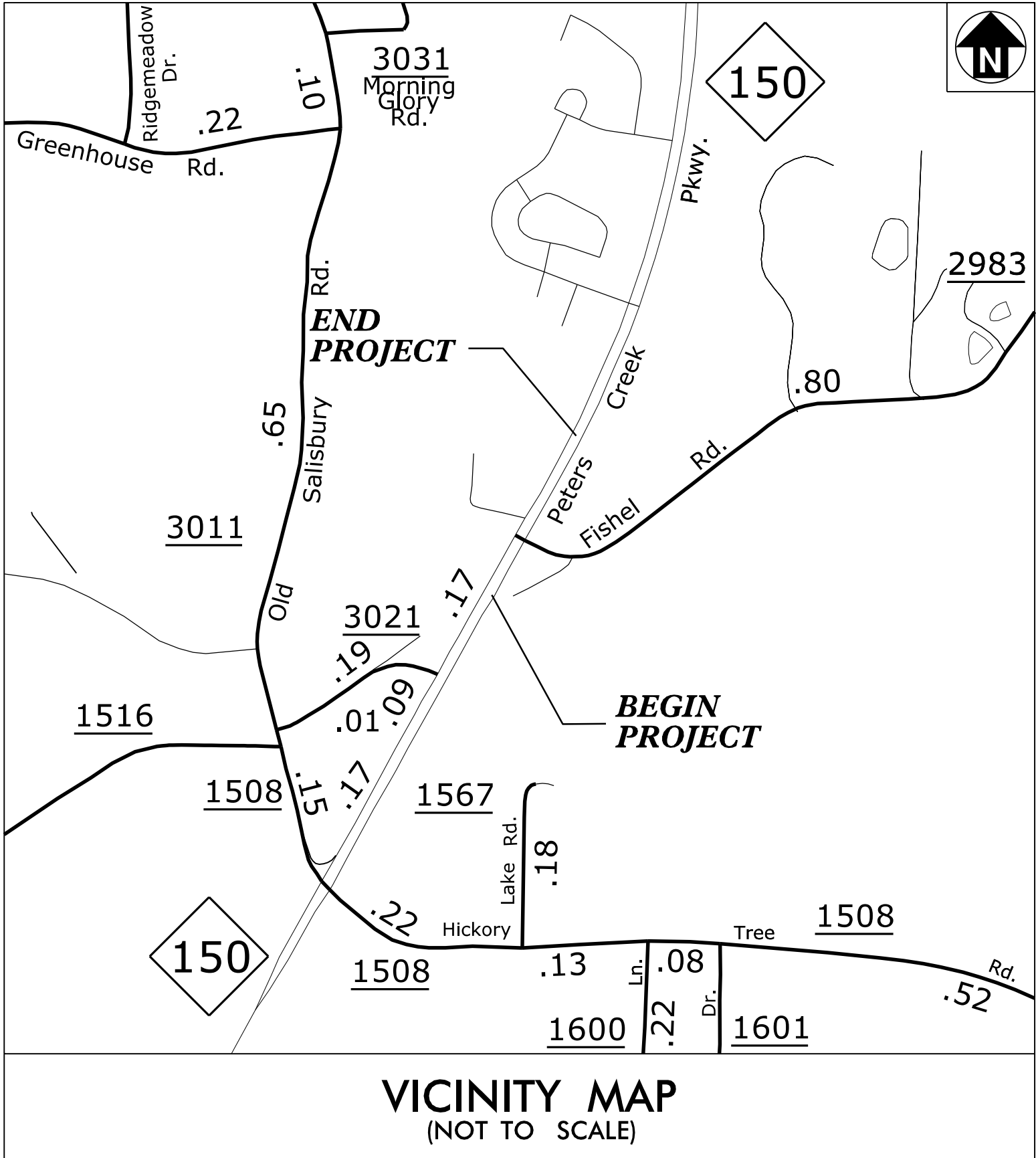
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

FORSYTH COUNTY
DIVISION 9



LOCATION: INTERSECTION OF NC 150 AND SR 2983 (FISHEL ROAD)



PLANS PREPARED BY:

JAMES B. VOSO, PE

KYLE G. EUDY, PE

NCDOT CONTACTS:

DANIEL C. ULRICH, PE, PLS
PROJECT ENGINEER

PROJECT DESIGN ENGINEER



PLANS PREPARED BY:

Mattern & Craig
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FAX (828) 254-4562
NC LIC. NO. C-1154

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED: James B. Voso
140FD60379E041F...

DATE: 11/19/2024

SEAL

SEAL
022599
ENGINEER
JAMES B. VOSO

SHEET NO.
TMP-1

HS-2409A

TIP PROJECT:

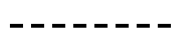
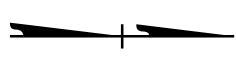
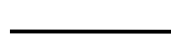
ROADWAY STANDARD DRAWINGS

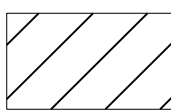
THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1251.01	RAISED PAVEMENT MARKERS
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

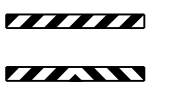
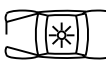
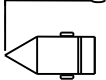
LEGEND

GENERAL

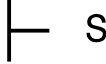
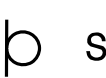
-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.

-  WORK AREA
-  MILLING

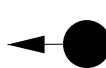
TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW PANEL (TYPE C)
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
-  CHANGEABLE MESSAGE SIGN

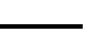
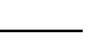
TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

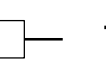
SIGNALS

-  TEMPORARY
-  PORTABLE TRAFFIC SIGNAL

PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

PAVEMENT MARKERS

-  YELLOW/YELLOW
-  TEMPORARY WHITE/WHITE

PAVEMENT MARKING SYMBOLS

- 
- 
- 
- PAVEMENT MARKING SYMBOLS

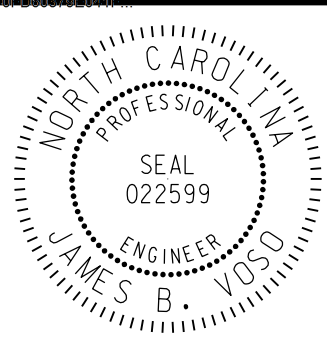
TEMPORARY PAVEMENT MARKING

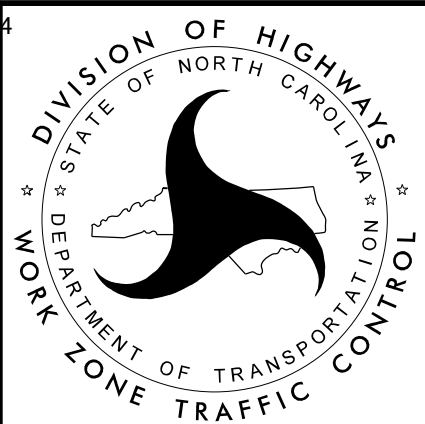
SYMBOL	DESCRIPTION
	PAINT
PA	WHITE EDGE LINE (4")
PI	YELLOW DOUBLE CENTER (4")
P2	STOP BAR (24" WHITE)

TEMPORARY RAISED MARKERS

- MF
- CRYSTAL & CRYSTAL

APPROVED: James B. Voso DATE: 11/19/2024





ROADWAY STANDARD
DRAWINGS & LEGEND

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
HS - 2409A	TMP - 1B

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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. -L- NC 150	MONDAY THROUGH FRIDAY 7:00 AM TO 9:00 AM & 4:00 PM TO 6:00 PM
2. -Y- ALIGNMENTS	MONDAY THROUGH FRIDAY 7:00 AM TO 9:00 AM & 4:00 PM TO 6:00 PM

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

ROAD NAME
-L- NC 150

HOLIDAY

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

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 AM FRIDAY AND 7:00 PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 AM TUESDAY TO 7:00 PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

- C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. -L- NC 150	ALL DATES AND TIMES

HAULING RESTRICTIONS

- D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.
- E) DO NOT CONDUCT ANY HAULING OPERATIONS DURING THE HOLIDAY AND SPECIAL EVENTS TIME RESTRICTIONS UNLESS THE HAULING OPERATION OCURS COMPLETELY BEHIND TEMPORARY TRAFFIC BARRIERS OR GUARDRAIL AND DOES NOT IMPACT TRAFFIC OPERATIONS.
- F) ALL ENTRANCES AND EXITS FOR HAULING TO AND FROM WORK ZONES SHALL CONFORM TO 2024 ROADWAY STANDARD DRAWINGS.
- G) HAUL VEHICLES SHALL NOT ENTER AND/OR EXIT AN OPEN TRAVEL LANE AT SPEEDS MORE THAN 10 MPH BELOW THE POSTED SPEED LIMIT.
- H) MULTI-VEHICLE HAULING SHALL NOT BE ALLOWED INGRESS OR EGRESS FROM ANY OPEN TRAVEL LANE DURING THE FOLLOWING TIME RESTRICTIONS. THE FOLLOWING TIME RESTRICTIONS ONLY APPLY WHERE EGRESS AND/OR INGRESS OCCURS BETWEEN THE WORK AREA AND ANY TRAVEL LANE OF THE ROADS NOTED BELOW. HAULING OPERATIONS CONDUCTED ENTIRELY BEHIND A TEMPORARY TRAFFIC BARRIER OR GUARDRAIL ARE ALLOWED AT ALL TIMES AND ARE EXCLUDED FROM THE FOLLOWING TIME RESTRICTIONS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. -L- NC 150	MONDAY THROUGH FRIDAY 7:00 AM TO 7:00 PM

LANE AND SHOULDER CLOSURE REQUIREMENTS

- I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN EITHER DIRECTION ON A TWO-LANE, TWO-WAY UNDIVIDED FACILITY.
- J) 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.
- K) BARRIER PLACED ON ROADWAY SHOULDER SHALL BE INSTALLED USING SHOULDER CLOSURE SIGNS AND DEVICES ACCORDING TO NCDOT 2024 ROADWAY STANDARD DRAWING 1101.04 IN ADVANCE OF BARRIER.
- L) 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.

- M) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, 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 ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- N) 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.

- O) 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- P) 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.

- Q) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- R) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- S) 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.

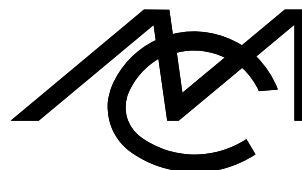
- T) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

- U) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- V) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.



Mattern & Craig

ENGINEERS-SURVEYORS

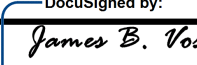
12 BROAD STREET

HICKORY, NORTH CAROLINA 28601

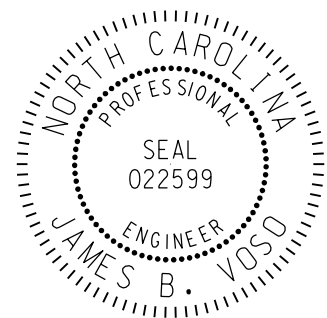
(828) 254-2201

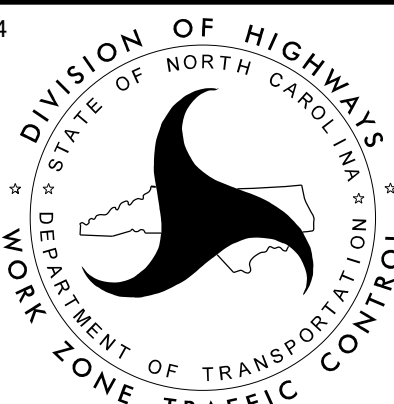
FAX (828) 254-4562

NC LIC. NO. C-1154

APPROVED:  DATE: 11/19/2024

SEAL





GENERAL NOTES

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
HS - 2409A	TMP - 1C

TRAFFIC CONTROL DEVICES

- W) 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.
- X) WHEN NEEDED, PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Y) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

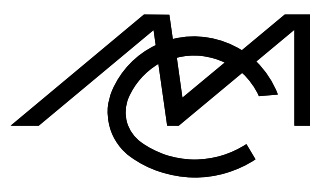
- Z) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|---------------------------------|---------|------------------|
| ALL ROADS AND PROPOSED SURFACES | PAINT | RAISED TEMPORARY |
- AA) PLACE ONE APPLICATION 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.
- BB) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- CC) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- DD) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

MISCELLANEOUS

- EE) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- FF) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

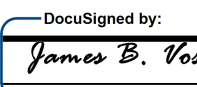
LOCAL NOTES

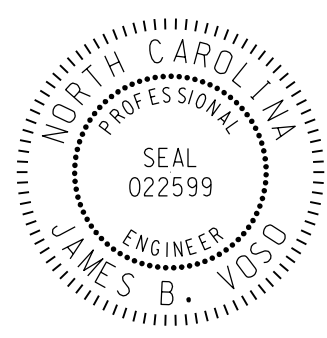
- GG) CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

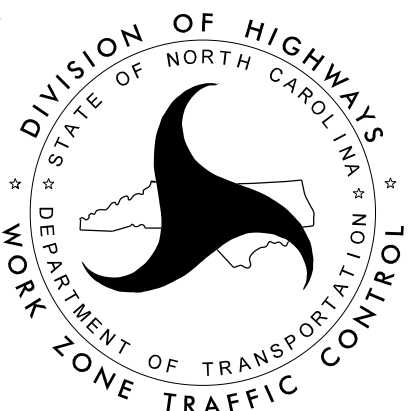


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NC LIC. NO. C-1154

APPROVED:  DATE: 11/19/2024





GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
HS - 2409A	TMP - 1D

TRAFFIC CONTROL PHASING

MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. COORDINATE WITH PROPERTY OWNERS AS NEEDED DURING DRIVEWAY CONSTRUCTION.

NOTE: BEFORE BEGINNING CONSTRUCTION THE CONTRACTOR SHALL:

- PLACE ADVANCE WORK ZONE WARNING SIGNS ALONG EXISTING NC 150 AND ALL -Y- LINES IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.01.

CONTRACTOR SHALL CONSTRUCT ALL PAVEMENT (TEMPORARY AND/OR PROPOSED) TO MAINTAIN DRAINAGE AND NOT POND WATER IN THE TRAFFIC LANES.

AT THE END OF EACH WORK DAY, REPLACE ANY EXISTING PAVEMENT MARKING OBLITERATED DURING CONSTRUCTION WITH TEMPORARY MARKING (PAINT) AND OPEN ALL LANES TO TRAFFIC.

CONTRACTOR SHALL NOT WORK SIMULTANEOUSLY ON BOTH SIDES OF AN OPEN TRAVEL-WAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PHASE 1

STEP 1: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 3 OF 19, MILL EXISTING ASPHALT AS INDICATED IN THE PLANS AS FOLLOWS:

STA. 11+81 +/- -Y1- TO STA. 12+51 +/- -Y1-

STEP 2: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 3 OF 19, CONSTRUCT WIDENING OF NC 150 (-L-) INCLUDING PARTIAL MEDIAN WORK AND CONCRETE ISLAND WORK OF -Y1- AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE AS FOLLOWS:

STA. 13+33 +/- -L- TO STA. 15+00 +/- -L-

STA. 25+14 +/- -L- TO STA. 31+04 +/- -L- RIGHT SIDE

STA. 32+19 +/- -L- TO STA. 38+39 +/- -L- LEFT SIDE

STA. 44+45 +/- -L- TO STA. 45+91 +/- -L- LEFT SIDE

STA. 11+83 +/- -Y1- TO STA. 12+42 +/- -Y1-

PHASE 2

STEP 1: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 3 OF 19, MILL EXISTING ASPHALT AS INDICATED IN THE PLANS AS FOLLOWS:

STA. 25+14 +/- -L- TO STA. 38+38 +/- -L-

STEP 2: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 3 OF 19, CONSTRUCT CONCRETE ISLAND WORK AS INDICATED IN THE PLANS, BUT NOT INCLUDING THE FINAL SURFACE COURSE AS FOLLOWS:

STA. 30+56 +/- -L- TO STA. 31+42 +/- -L-

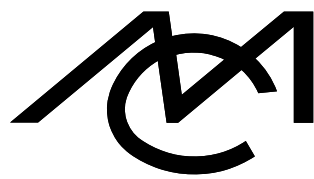
STA. 30+56 +/- -L- TO STA. 32+76 +/- -L-

STA. 31+93 +/- -L- TO STA. 34+65 +/- -L-

CONTRACTOR SHALL COMPLETE THE WORK REQUIRED OF PHASE 2 IN 7 CONSECUTIVE DAYS. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

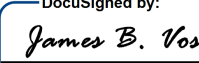
PHASE 3

STEP 1: WITH TRAFFIC IN THE EXISTING PATTERN AND USING ROADWAY STANDARD 1101.02, SHEET 3 OF 19, OVERLAY MILLED ASPHALT TO CONSTRUCT FINAL SURFACE COURSE, INSTALL FINAL PAVEMENT MARKINGS AND MARKERS, AND OPEN -L- (NC 150) TO FINAL TRAFFIC PATTERN.



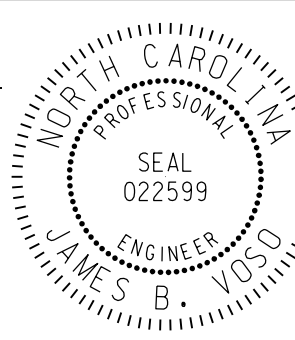
Mattern & Craig
ENGINEERS-SURVEYORS

231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

APPROVED: 
140FD60375ED41F...

DATE: 11/19/2024

SEAL





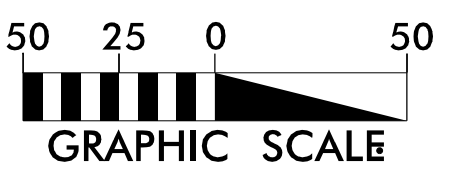
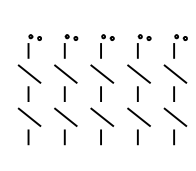
TRASPORTATION
OPERATIONS
PLAN

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

 **Mattern & Craig**
ENGINEERS & SURVEYORS

231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

MATCHLINE -L- STA. 22+00 SEE SHEET 3



TEMPORARY TRAFFIC CONTROL DETAIL PHASE 1

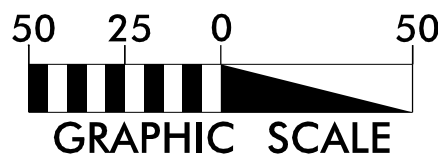
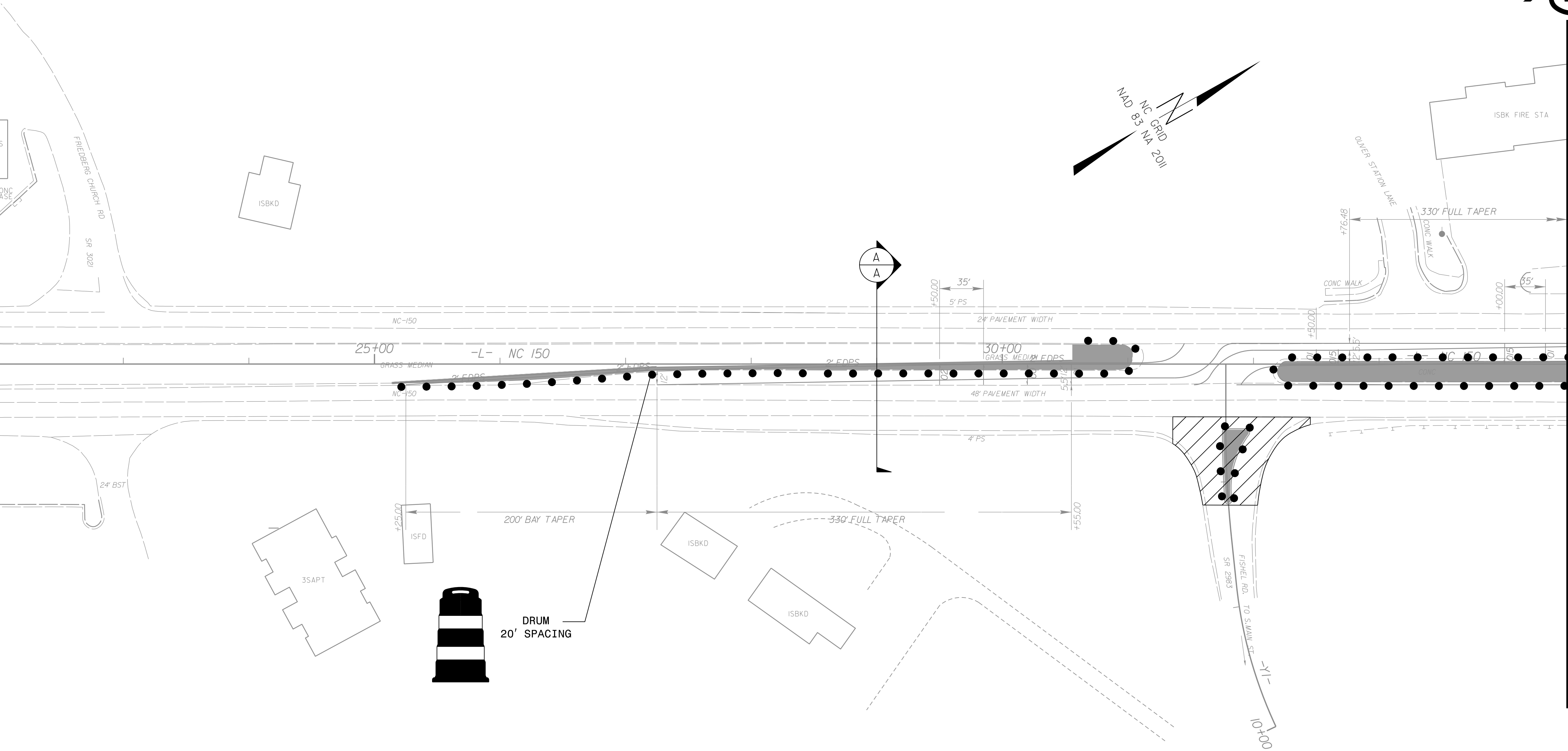
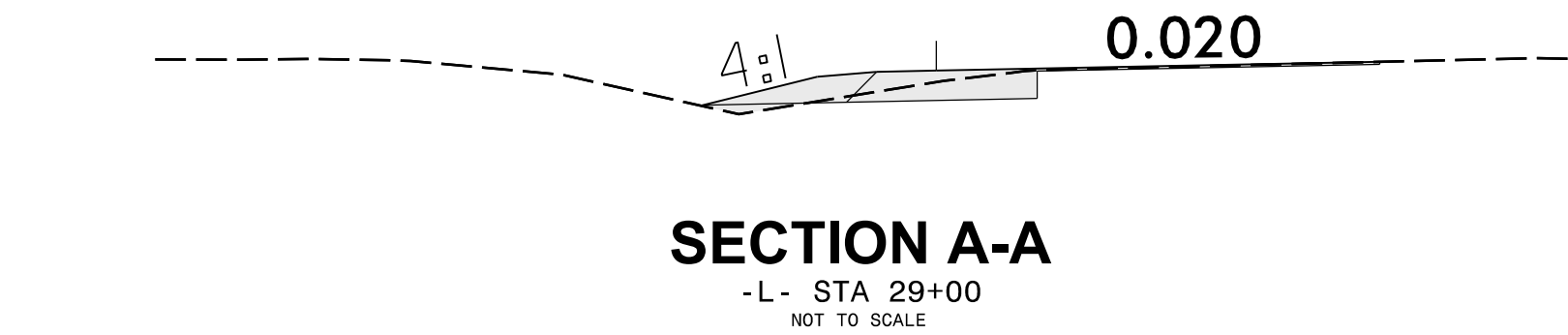
PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	TMP-3
APPROVED: DocuSigned by: James B. Voss 140FD60370E041F...	
DATE:	11/19/2024
SEAL	
Professional Engineer Seal for James B. Voss, State of North Carolina, License No. 022599.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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ENGINEERS-SURVEYORS

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HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

MATCHLINE -L- STA. 22 + 00 SEE SHEET 2

MATCHLINE -L- STA. 34 + 50 SEE SHEET 4

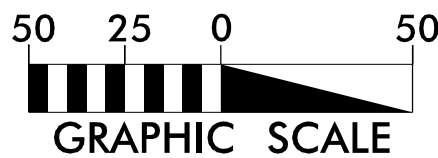
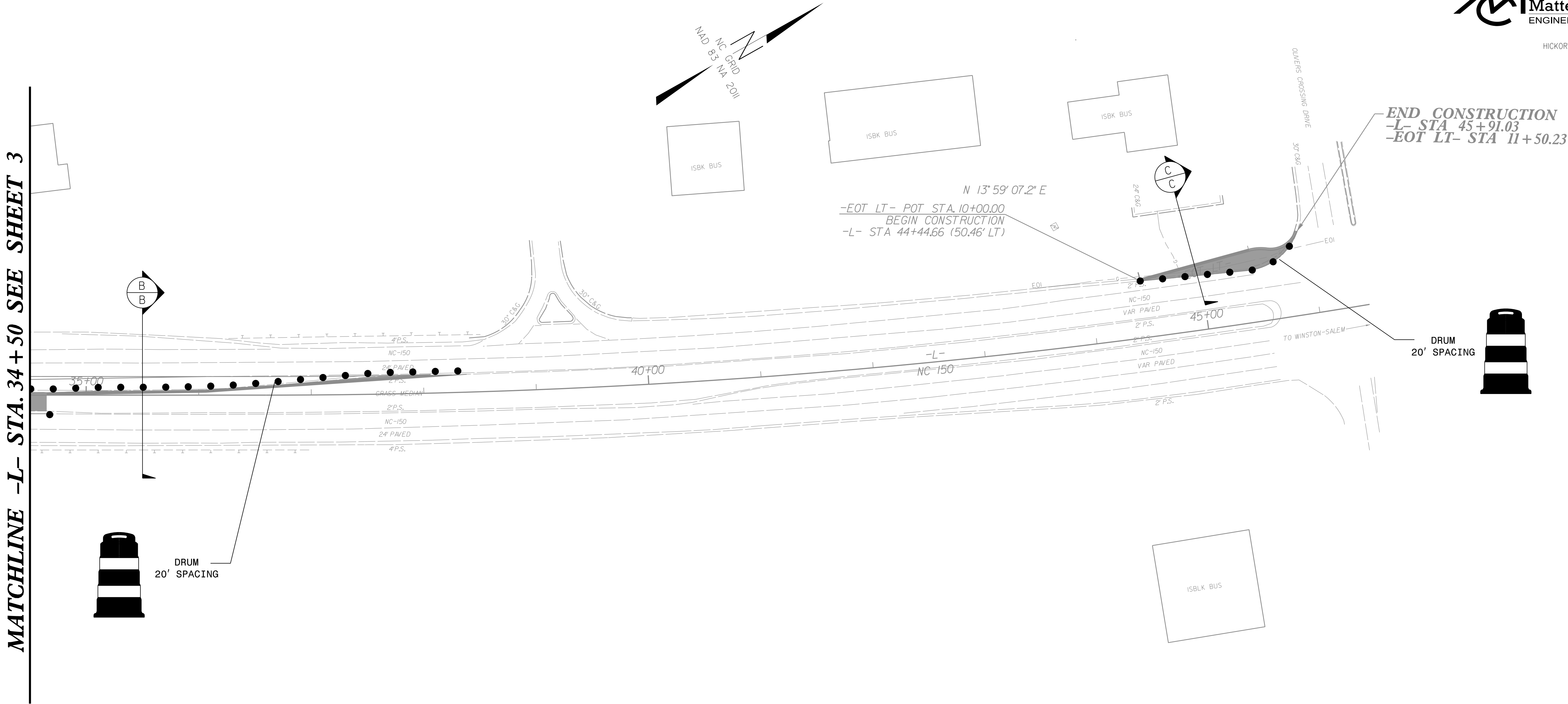
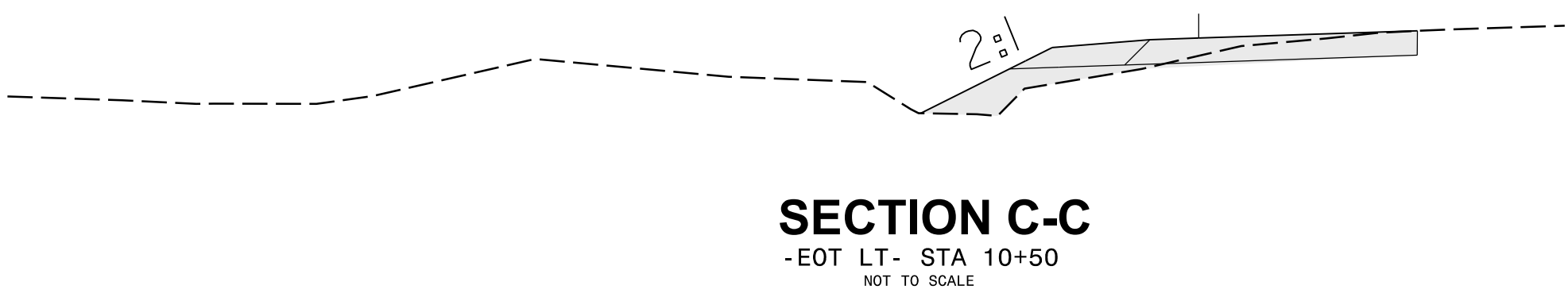
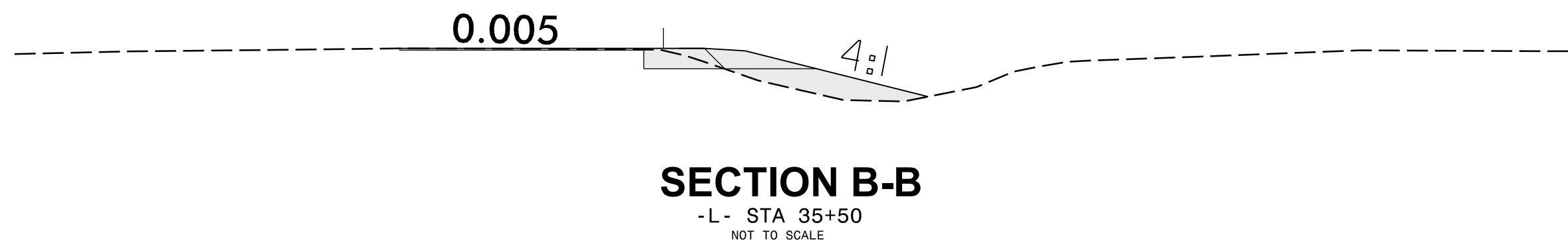


TEMPORARY TRAFFIC
CONTROL DETAIL PHASE 1

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	TMP-4
APPROVED DocuSigned by: <i>James B. Vaso</i> 140FD60379E041F	
DATE: 11/19/2024	
SEAL	
Professional Engineer Seal for James B. Vaso, State of North Carolina, License No. 022599.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**Mattern & Craig**
ENGINEERS-SURVEYORS

231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 859-2233
FAX (540) 345-7691
NC LIC. NO. C-1154



**TEMPORARY TRAFFIC
CONTROL DETAIL PHASE 1**

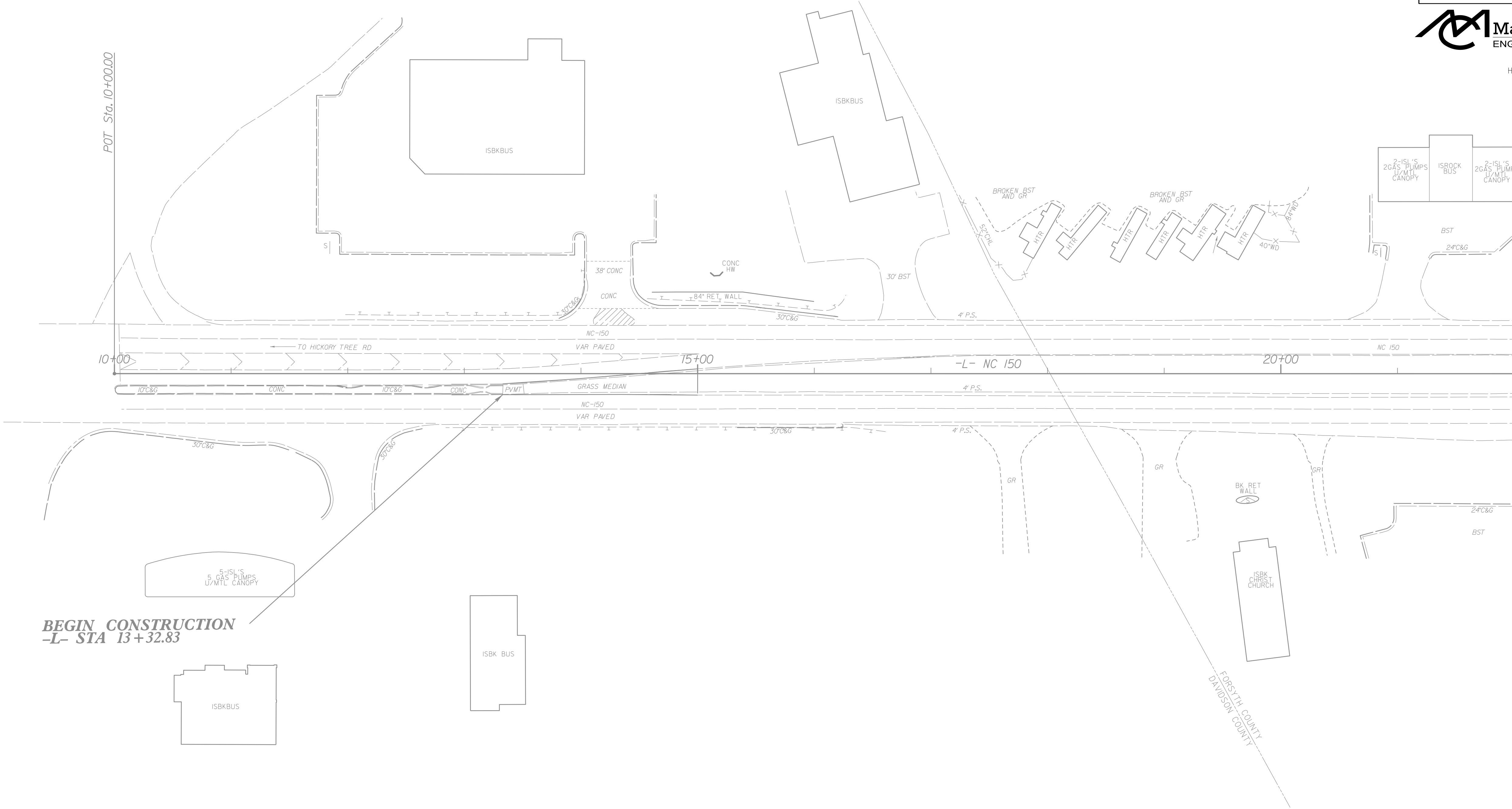
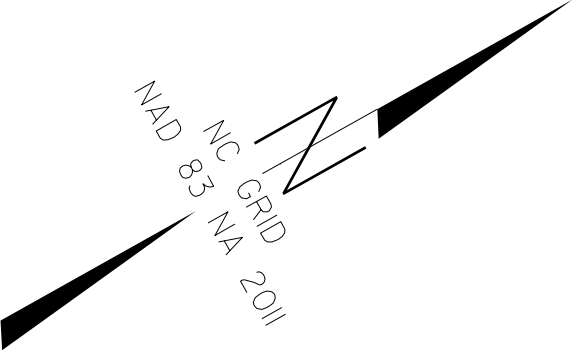
PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	TMP-5
APPROVED: DocuSigned by: James B. Voso 140FD60379ED41F...	
DATE: 11/19/2024	
SEAL	
Professional Engineer Seal for James B. Voso, State of North Carolina, License No. 022599.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



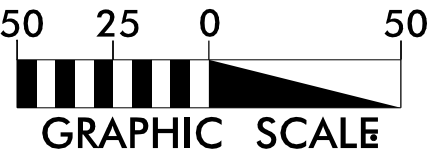
231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 859-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

MATCHLINE -L- STA. 22+00 SEE SHEET 6

NO WORK THIS SHEET
FOR PHASE 2



BEGIN CONSTRUCTION
-L- STA 13+32.83

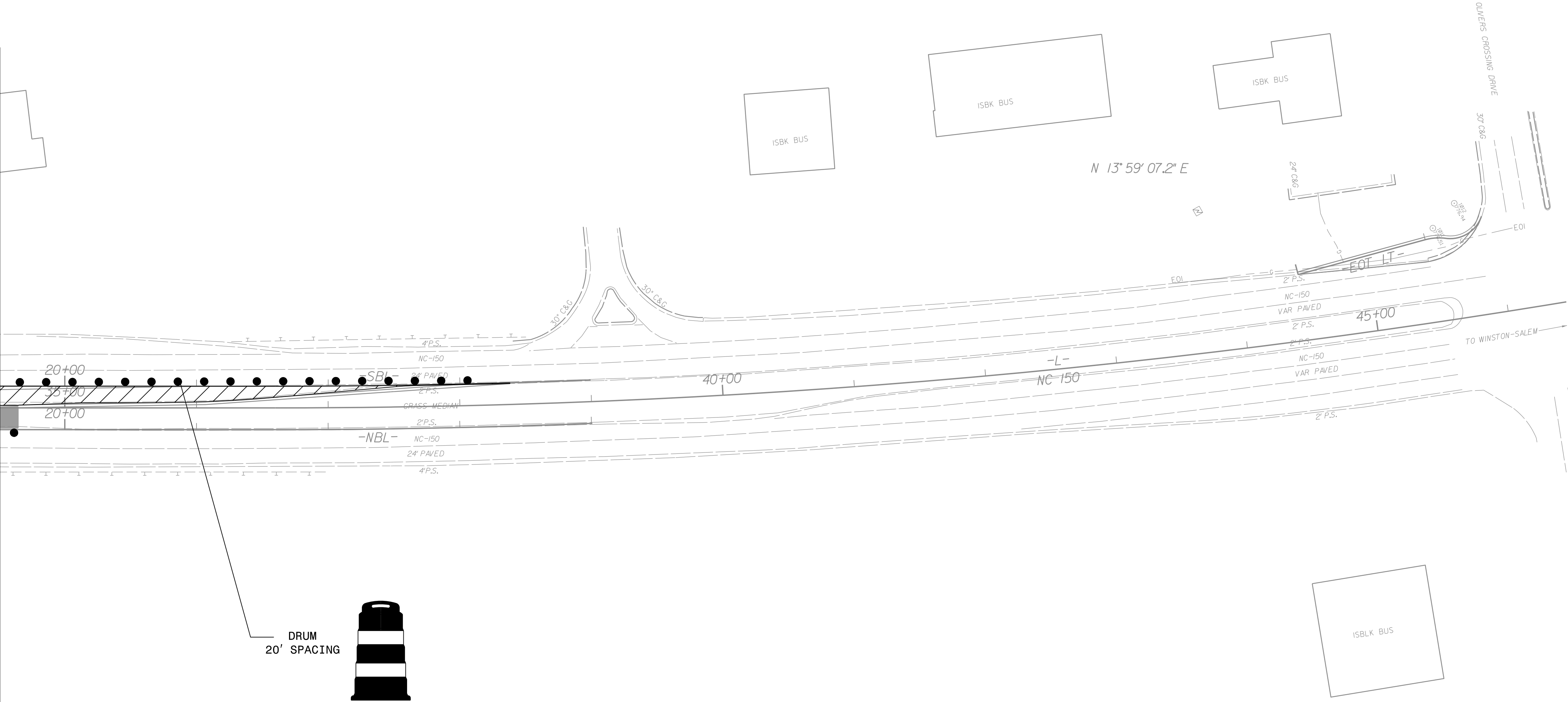


TEMPORARY TRAFFIC
CONTROL DETAIL PHASE 2

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	TMP-7
APPROVED: DocuSigned by: <i>James B. Voso</i> 140FD60379E041F...	
DATE: 11/19/2024	
SEAL	
Professional Engineer Seal for James B. Voso, State of North Carolina, License No. 022599.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

Mattern & Craig
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231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 859-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

MATCHLINE -L- STA. 34+50 SEE SHEET 6



TEMPORARY TRAFFIC
CONTROL DETAIL PHASE 2

CONTRACT: # TIP: HS-2409A

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS
FORSYTH COUNTY

LOCATION: INTERSECTION OF NC 150 AND SR 2983 (FISHEL ROAD)

ROADWAY STANDARD DRAWING

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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

PAVEMENT
MARKING SCHEDULE

SYMBOL	MARKINGS THERMOPLASTIC
T1	WHITE EDGELINE (4", 90 MIL)
T4	3 FT.-9 FT./SP WHITE MINISKIP (4", 90 MIL)
T5	2 FT.-6 FT./SP WHITE MINISKIP (4", 90 MIL)
T10	YELLOW EDGELINE (4", 90 MIL)
T14	2 FT.-6 FT./SP YELLOW MINISKIP (4", 90 MIL)
T40	WHITE GORELINE (8", 90 MIL)
T51	WHITE DIAGONAL (12", 90 MIL)
T61	WHITE STOPBAR (24", 90 MIL)
T70	LEFT TURN ARROW (90 MIL)
T71	RIGHT TURN ARROW (90 MIL)
	PAVEMENT MARKERS
MF	SNOWPLOWABLE MARKER (CRYSTAL/RED)

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.

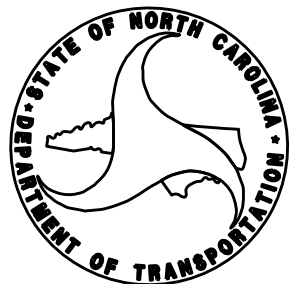
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------------------------------|---------------|--------------|
| -L- NC 150
(PETERS CREEK PKWY) | THERMOPLASTIC | SNOWPLOWABLE |
| -Y1- SR 2983
(FISHEL ROAD) | THERMOPLASTIC | -NONE- |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) 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.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2-4	PAVEMENT MARKING PLAN SHEETS

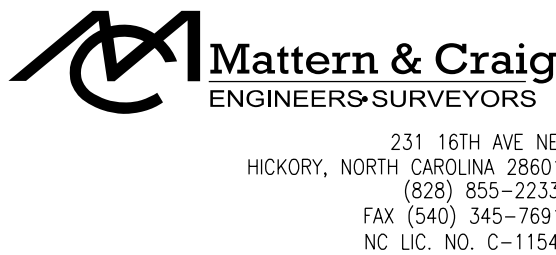
PLAN SUBMITTED TO:

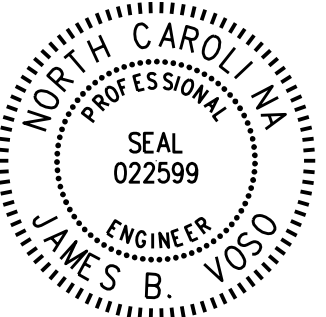
DANIEL C. ULRICH, PE, PLS – NCDOT Division 9 Design Construction Engineer



PLAN PREPARED BY: Mattern & Craig

Kyle G. Eudy Project Design Engineer
James B. Voso Project Engineer

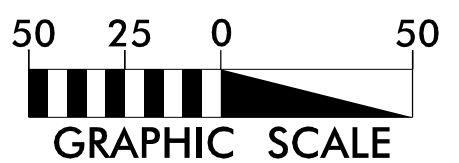


PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	PMP-1
APPROVED:  140FD00378E041F...	
DATE:	11/19/2024
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

 **Mattern & Craig**
ENGINEERS-SURVEYORS

231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7691
NC LIC. NO. C-1154

MATCHLINE -L- STA. 34+50 SEE SHEET 3



SEE SHEET PMP-1 FOR PAVEMENT
MARKING SCHEDULE

PAVEMENT MARKING PLAN

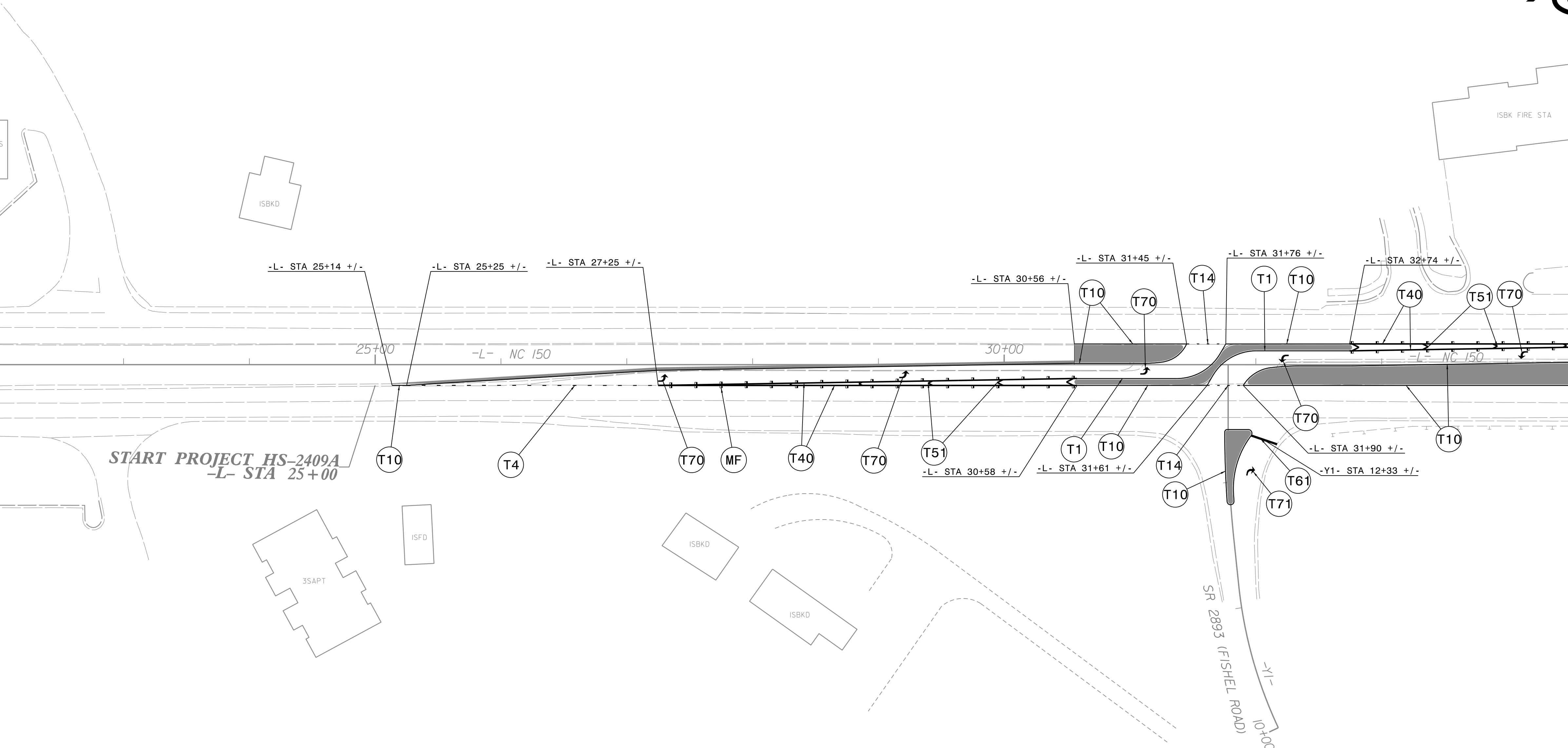
PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	PMP-3
APPROVED: DocuSigned by: James Voso 1405FD0037BED41F...	
DATE:	11/19/2024
SEAL	
Professional Engineer Seal for James S. Voso, State of North Carolina, License No. 022599.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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NC LIC. NO. C-1154

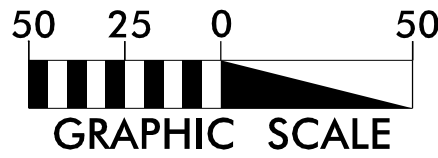
MATCHLINE -L- STA. 22+00 SEE SHEET 2

MATCHLINE -L- STA. 34+50 SEE SHEET 4



PROJECT NOTES

SEE SHEET PMP-1 FOR PAVEMENT MARKING SCHEDULE

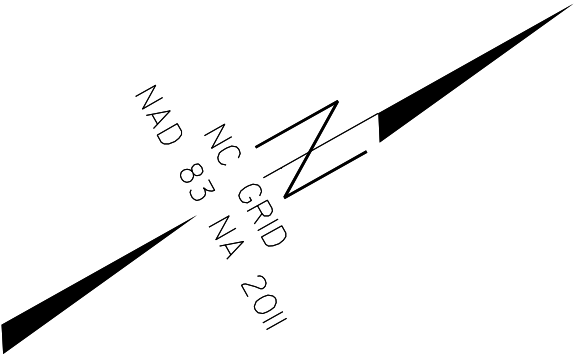


PAVEMENT MARKING PLAN

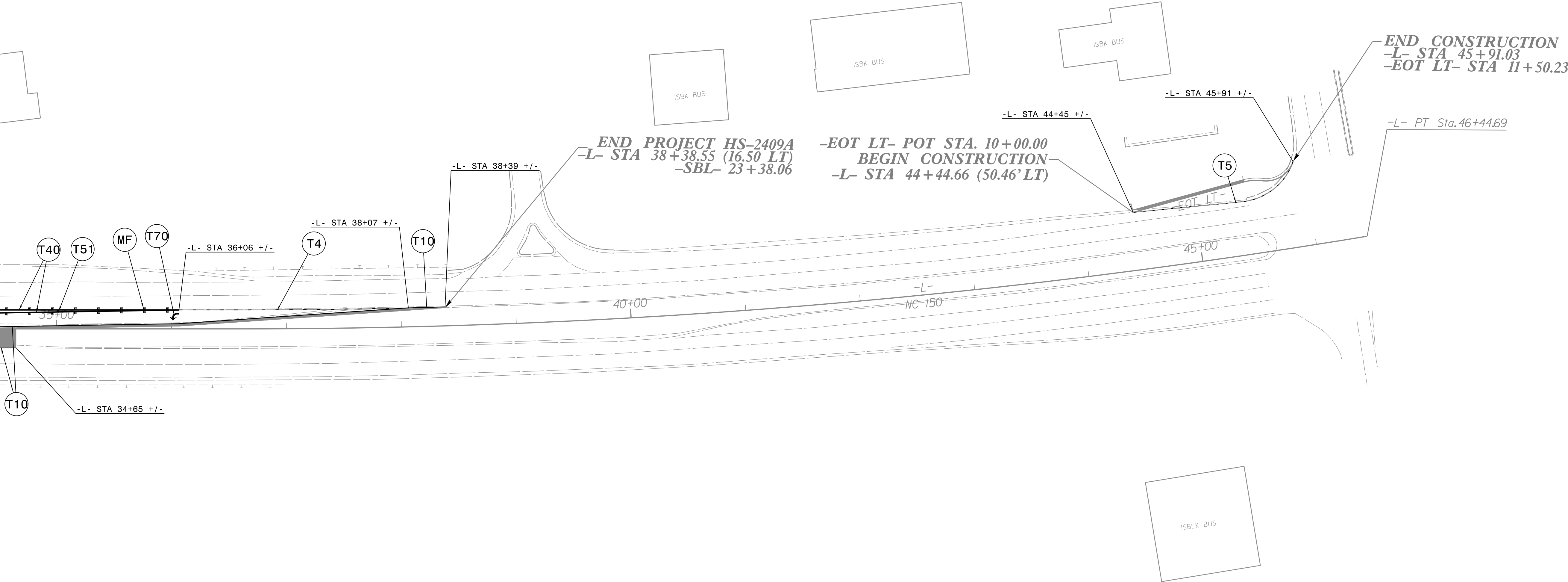
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HS-2409A	PMP-4
APPROVED: DocuSigned by: James Vase 140FD60379ED41F...	
DATE: 11/19/2024	
SEAL	
Professional Engineer Seal North Carolina Seal 022599 James B. Vase Engineer	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



231 16TH AVE NE
HICKORY, NORTH CAROLINA 28601
(828) 855-2233
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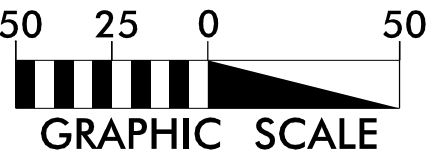


MATCHLINE -L- STA. 34+50 SEE SHEET 3



PROJECT NOTES

SEE SHEET PMP-1 FOR PAVEMENT MARKING SCHEDULE



PAVEMENT MARKING PLAN

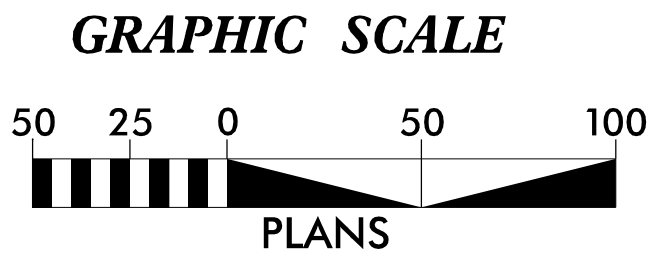
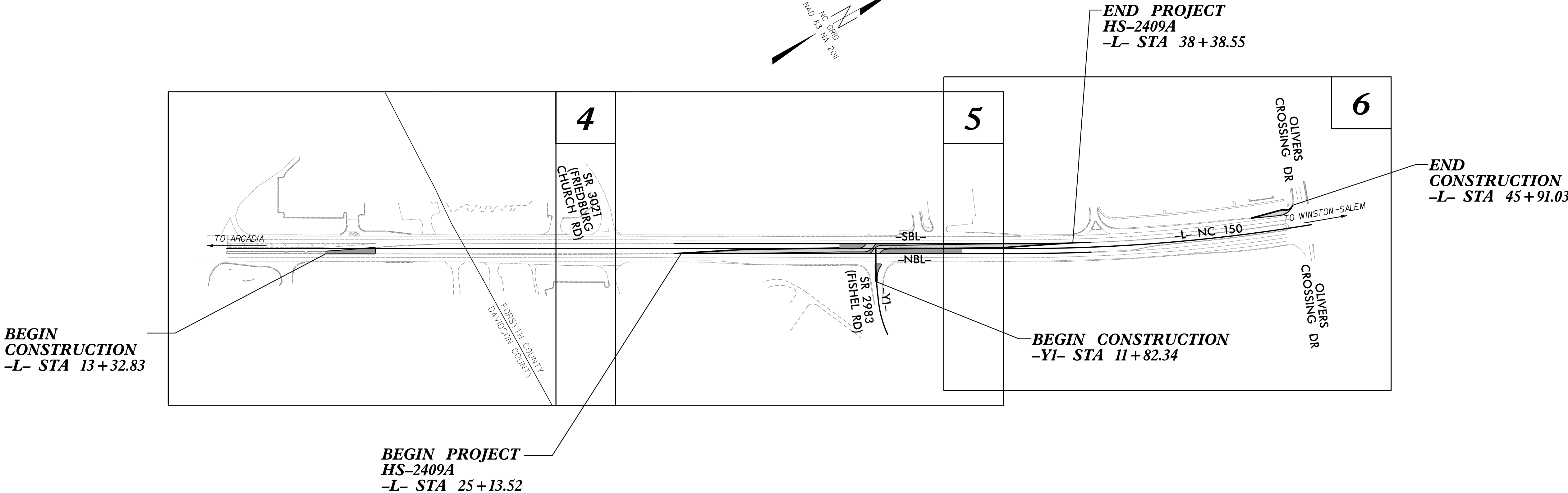
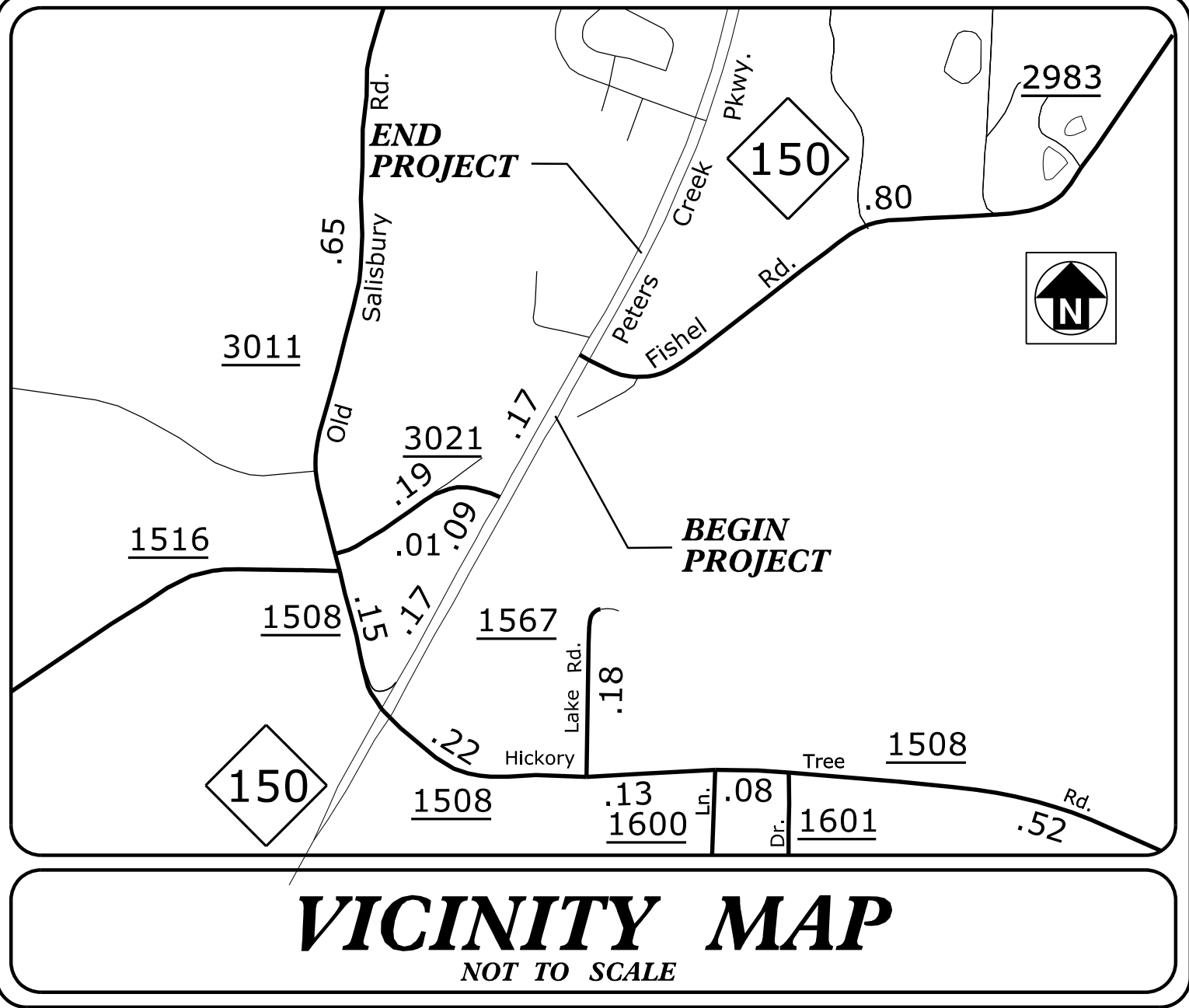
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2409A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50981.1.2		P.E.	
50981.2.2		ROW	
50981.2.22		UTILITIES	
50981.3.2		CONST.	



12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562
NC LIC. NO. C-1154

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
FORSYTH COUNTY

LOCATION: INTERSECTION OF NC 150 AND SR 2983 (FISHEL RD)
TYPE OF WORK: GRADING, PAVING, & DRAINAGE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
MATTERN & CRAIG
12 Broad St.
Asheville NC, 28801

2024 STANDARD SPECIFICATIONS

Designed by:
BRIAN G. ROSS 4636
NAME 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

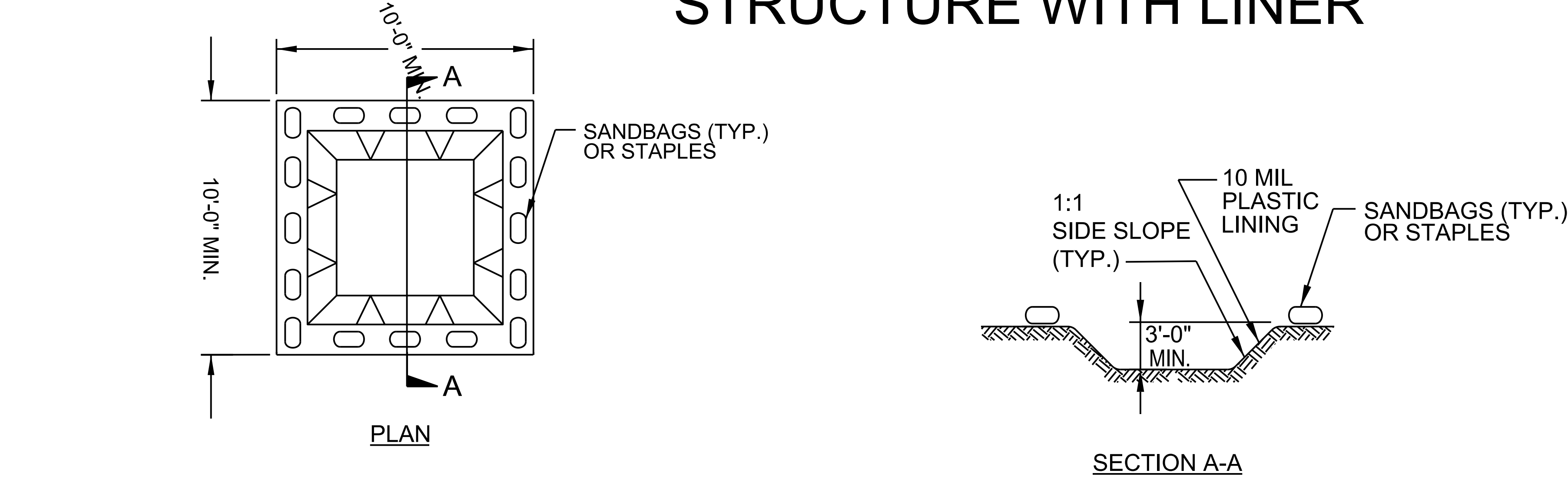
PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A				
1632.02	Type B		1636.03	Excelsior Wattle Barrier	
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	

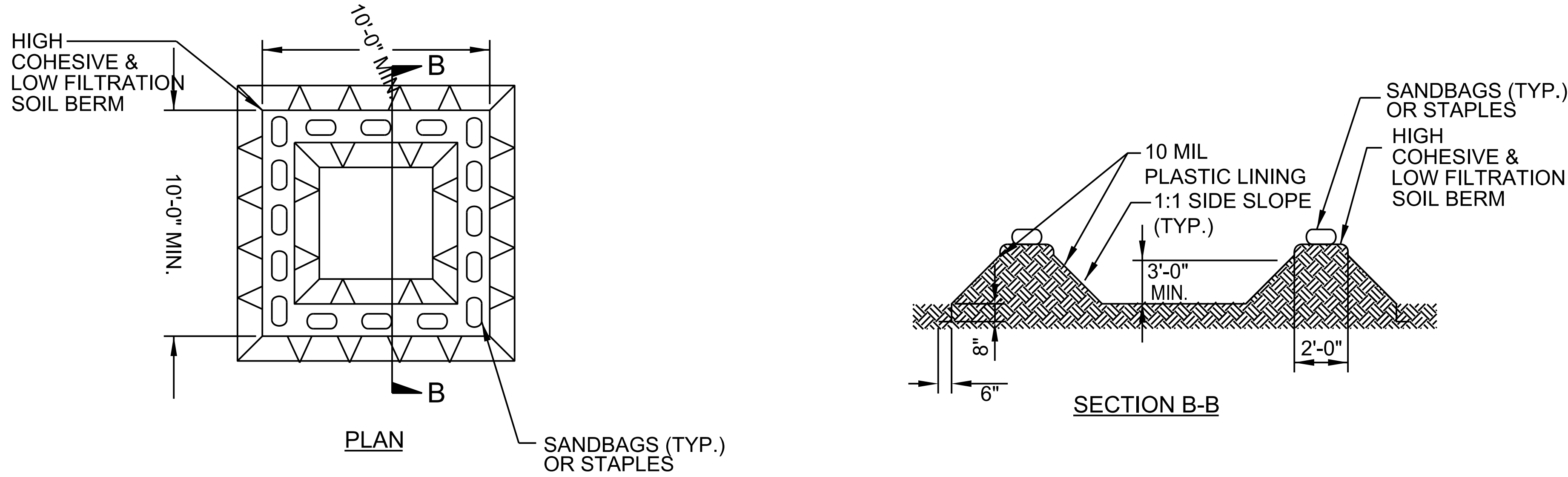
ONSITE CONCRETE WASHOUT
STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE



- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

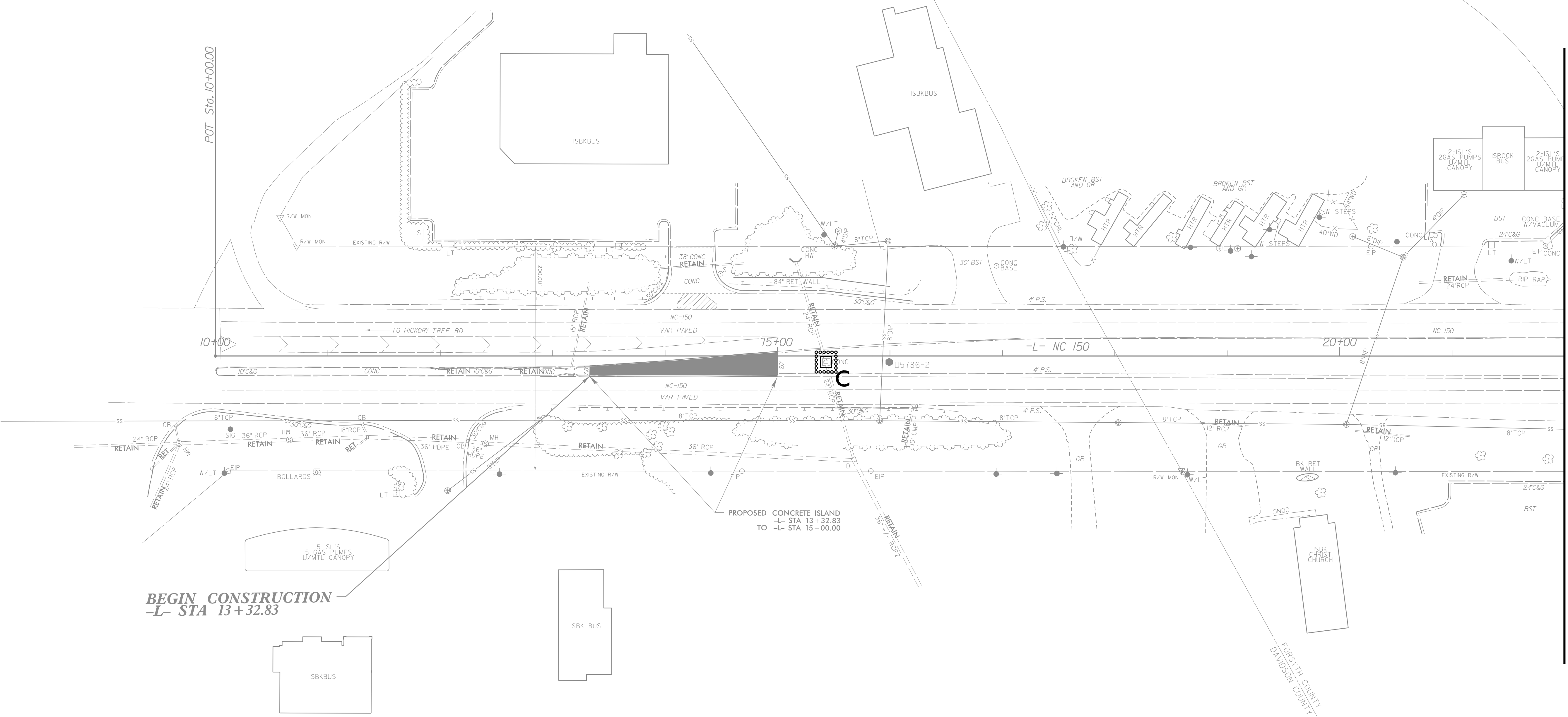
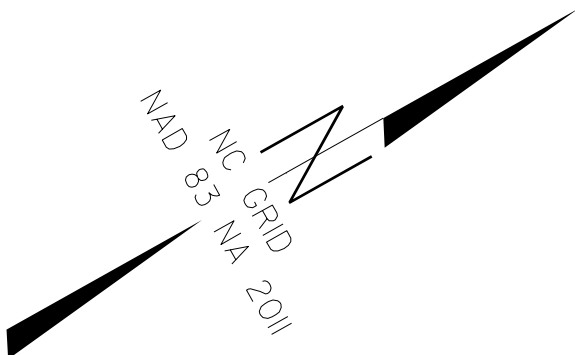
SOIL STABILIZATION TIMEFRAMES

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

NOTE:
FABRIC INSERT INLET PROTECTION DEVICES SHALL
BE USED AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	EC-4/CONS.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

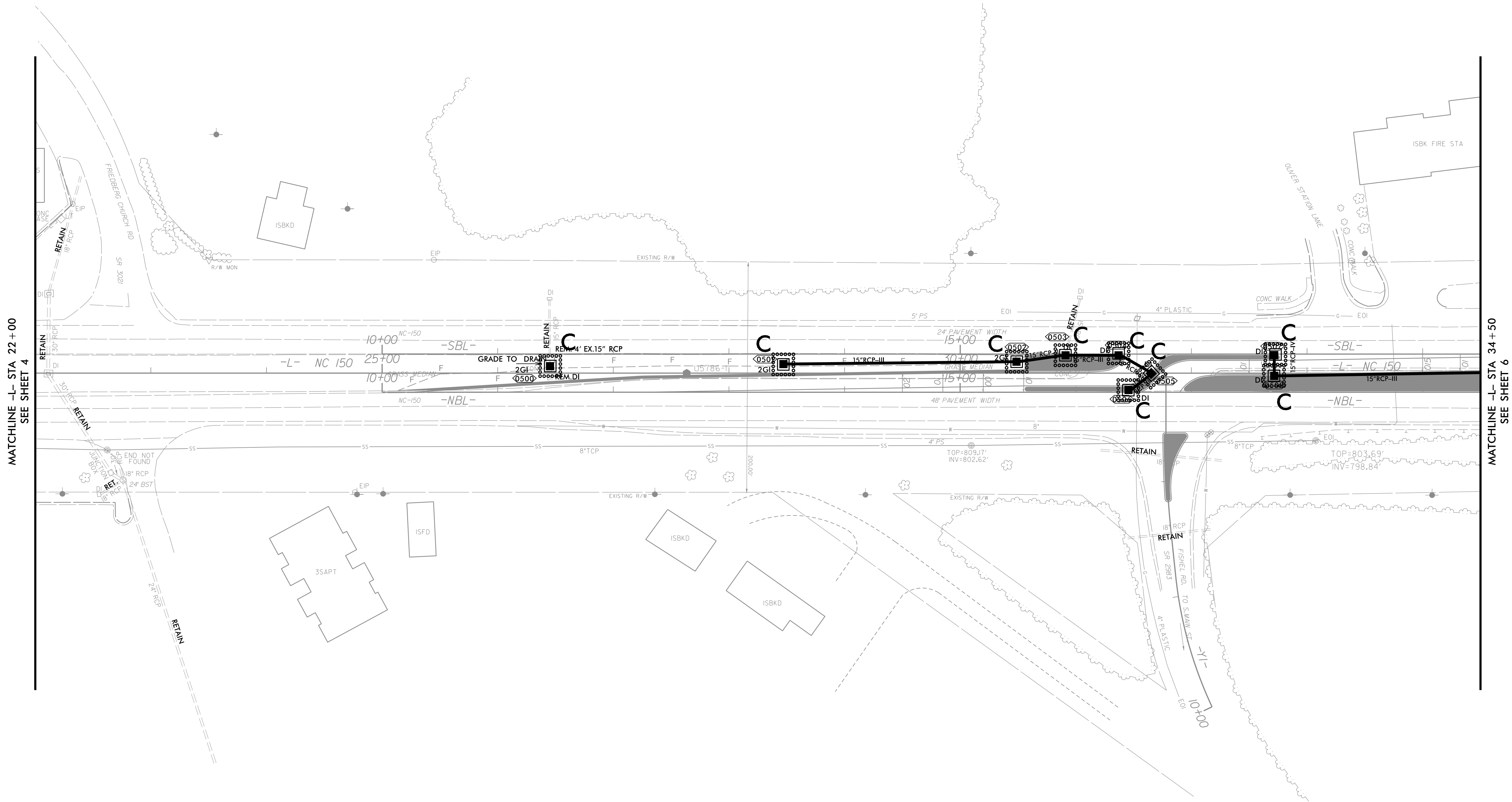
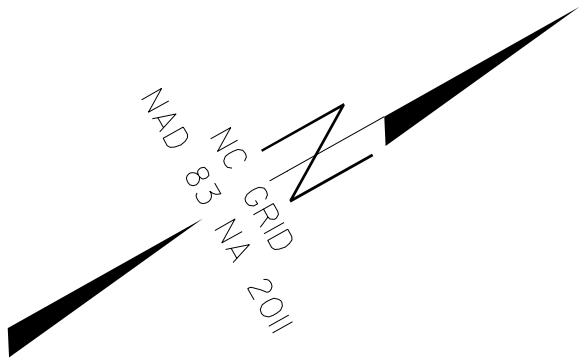


BEGIN CONSTRUCTION
-L- STA 13+32.83

8/17/99

NOTE:
FABRIC INSERT INLET PROTECTION DEVICES SHALL
BE USED AS DIRECTED BY THE ENGINEER.

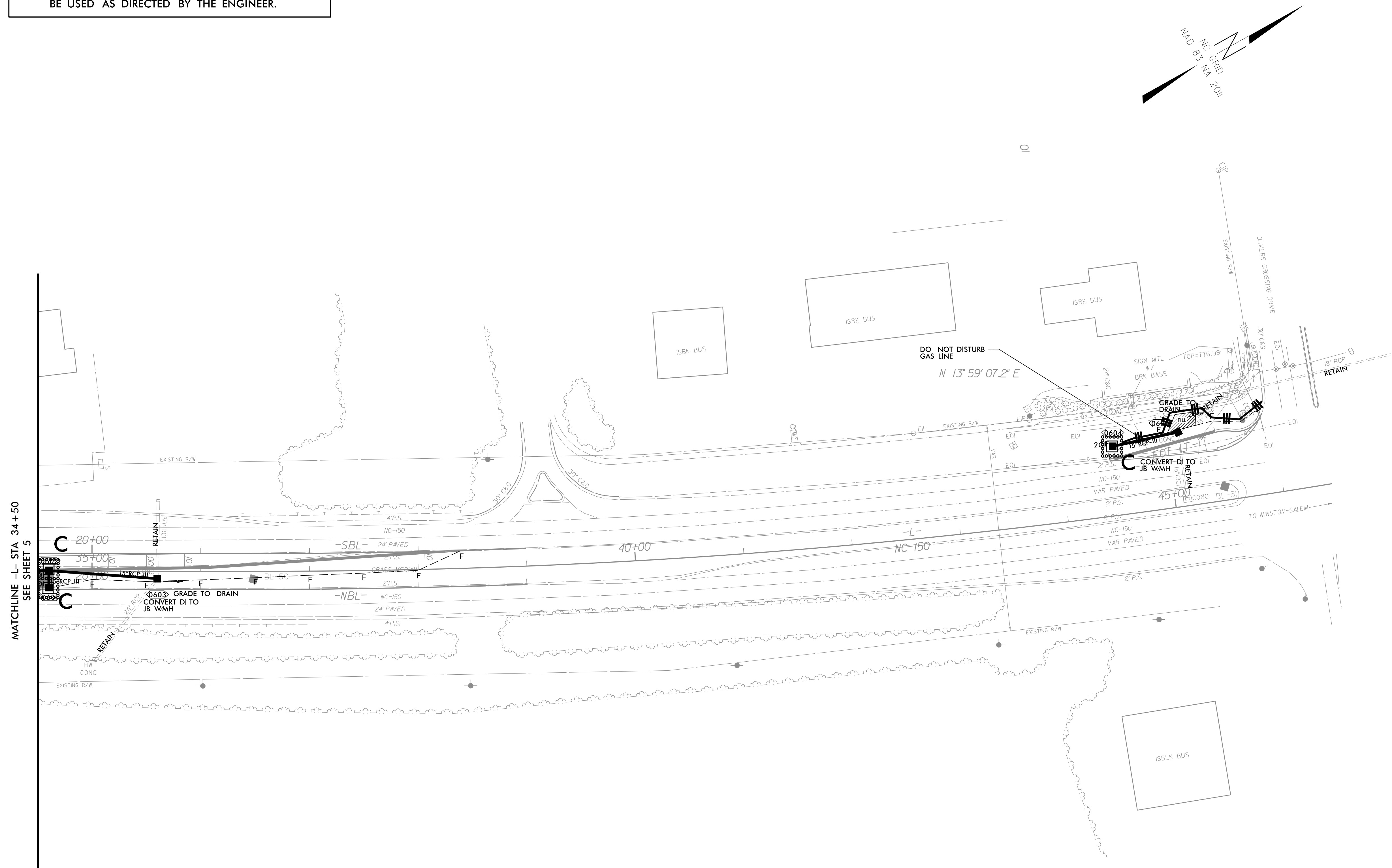
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HS-2409A	EC-5/CONS.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



5' MONOLITHIC CONC.ISLAND

NOTE:
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BE USED AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	EC-6/CONS.6
R/W	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



5" MONOLITHIC CONC. ISLAND

 **Mattern & Craig**
ENGINEERS-SURVEYORS

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HICKORY, NORTH CAROLINA 28601
(828) 855-2233
FAX (540) 345-7699
NC LIC. NO. C-1154

T.I.P.: HS-2409A

-

CONTRACT:

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
FORSYTH COUNTY

LOCATION: INTERSECTION OF NC 150 AND SR 2983 (FISHEL ROAD)

ROADWAY STANDARD DRAWING

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 SUPPORTS
910.30	SIGNING UNSIGNALIZED REDUCED CONFLICT INTERSECTION

GENERAL NOTES

- . SIGNS FURNISHED BY 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.
- . 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.

SUMMARY OF QUANTITIES

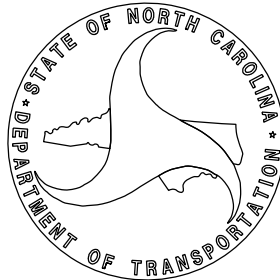
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000-E	901	CONTRACTOR FURNISHED, TYPE E SIGN	40.5	SF
4025000000-E	901	CONTRACTOR FURNISHED, TYPE F SIGN	9.06	SF
4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	57.3	LF
4102000000-N	904	SIGN ERECTION, TYPE E	6	EA
4108000000-N	904	SIGN ERECTION, TYPE F	1	EA
4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	4	EA
4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	4	EA

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2-3	SIGN DESIGNS, TYPE 'E' AND 'F' SIGNS
SIGN-4-5	SIGN PLAN SHEETS

PLAN SUBMITTED TO:

Daniel C. Ulrich, PE, PLS – NCDOT Division 9 Design Construction Engineer

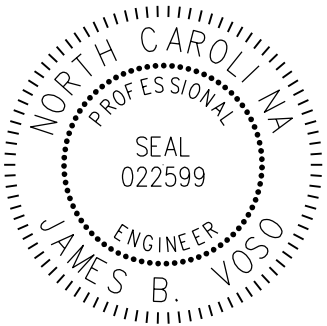


PLAN PREPARED BY: Mattern & Craig

Kyle G. Eudy Project Design Engineer
James B. Voso Project Engineer



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PROJECT REFERENCE NO.	SHEET NO.
HS-2409A	SIGN-1
APPROVED:  DocuSigned by: James Voso 140FD68379E041F...	
DATE: 11/19/2024	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGN NUMR:
TYPE: F Ground
QUANTITY: 1

SIGN WIDTH: 1'-9"
HEIGHT: 1'-9"
TOTAL AREA: 3.1 Sq.Ft.

MAT'L: 0.063" ALUMINUM

BORDER TYPE: RECESSED
RECESS: 0.38"
WIDTH: 0.63"
RADII: 1.5"
NO. 2 BARS:
LENGTH:

BACKG. COLOR: White
COPY COLOR: Black

SYMBOL	X	Y	WID	HT
u arrow	3.7	3.5	12.7	13.9

DESIGN BY:
PROJECT ID:

CHK BY:
DIV:

STD #:
DATE:

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRANSPORTATION MOBILITY & SAFETY
SIGNING & DELINEATION UNIT



NOTES:
1. Legend and border shall be direct applied
Non-reflective sheeting.
2. Background shall be Grade C reflective sheeting.

1'-9"

3.55"

13.9"

3.55"

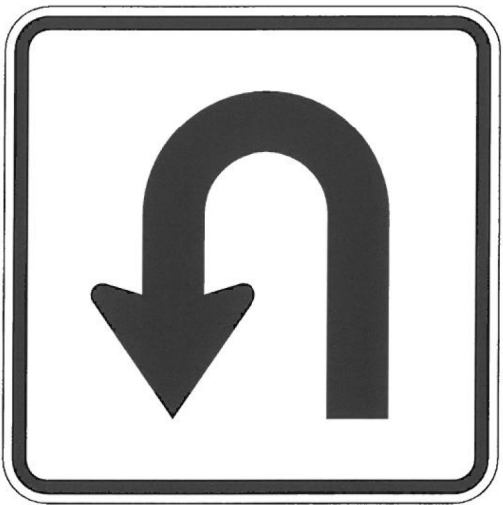
1'-9"

3.7"

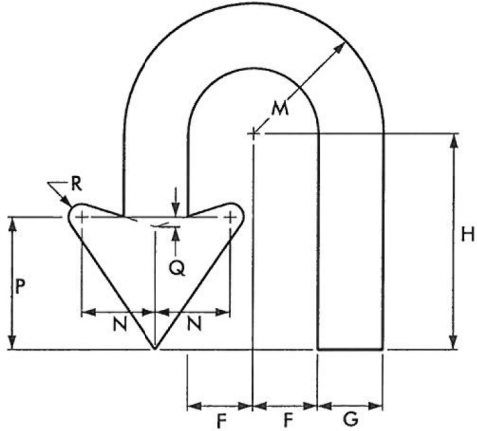
12.7"

4.7"

BORDER
R=1.5"
TH=0.63"
IN=0.38"



Arrow Details



ARROW DIMENSIONS (INCHES)	F	G	H	M	N	P	Q	R
	2.625	2.625	8.659	5.25	3	5.25	0.375	0.5

Spacing Factor is 1 unless specified otherwise
FILENAME: QSENG

PROJECT REFERENCE NO.
HS-2409A

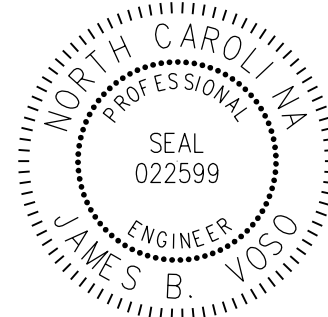
SHEET NO.
SIGN-2

APPROVED:

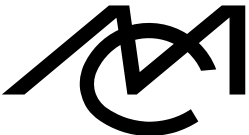
DocuSigned by:
James Voso
140FD60379ED41F

DATE: 11/19/2024

SEAL



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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SIGN DESIGNS

PROJECT REFERENCE NO.
HS-2409A

SHEET NO.
SIGN-4

DocuSigned by:
James Voso
140FDD0379ED41F...

APPROVED:

DATE:

11/19/2024

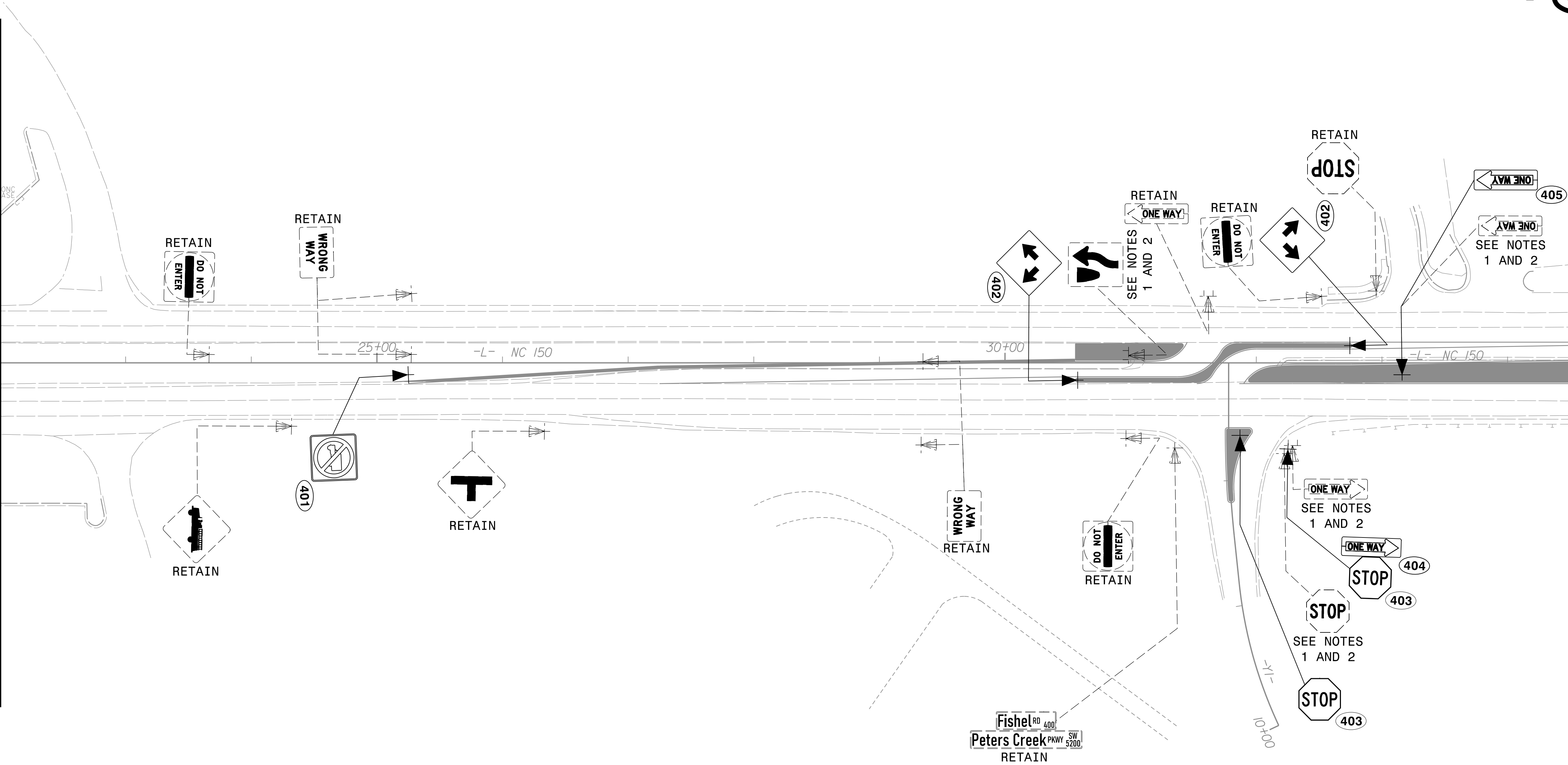
SEAL

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
022599
JAMES B. VOSO

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

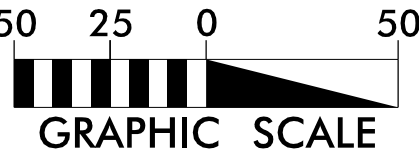
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PROJECT NOTES

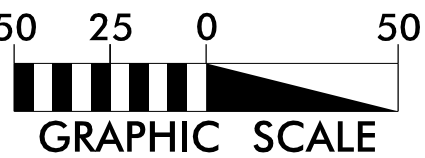
- 1. DISPOSAL OF SIGN SYSTEM, U CHANNEL
- 1. DISPOSAL OF SUPPORT, U CHANNEL



SIGN PLAN SHEET

 **Mattern & Craig**
ENGINEERS & SURVEYORS

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NC LIC. NO. C-1154



1. DISPOSAL OF SIGN SYSTEM, U CHANNEL

SIGN PLAN SHEET

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

CROSS SECTION SUMMARY

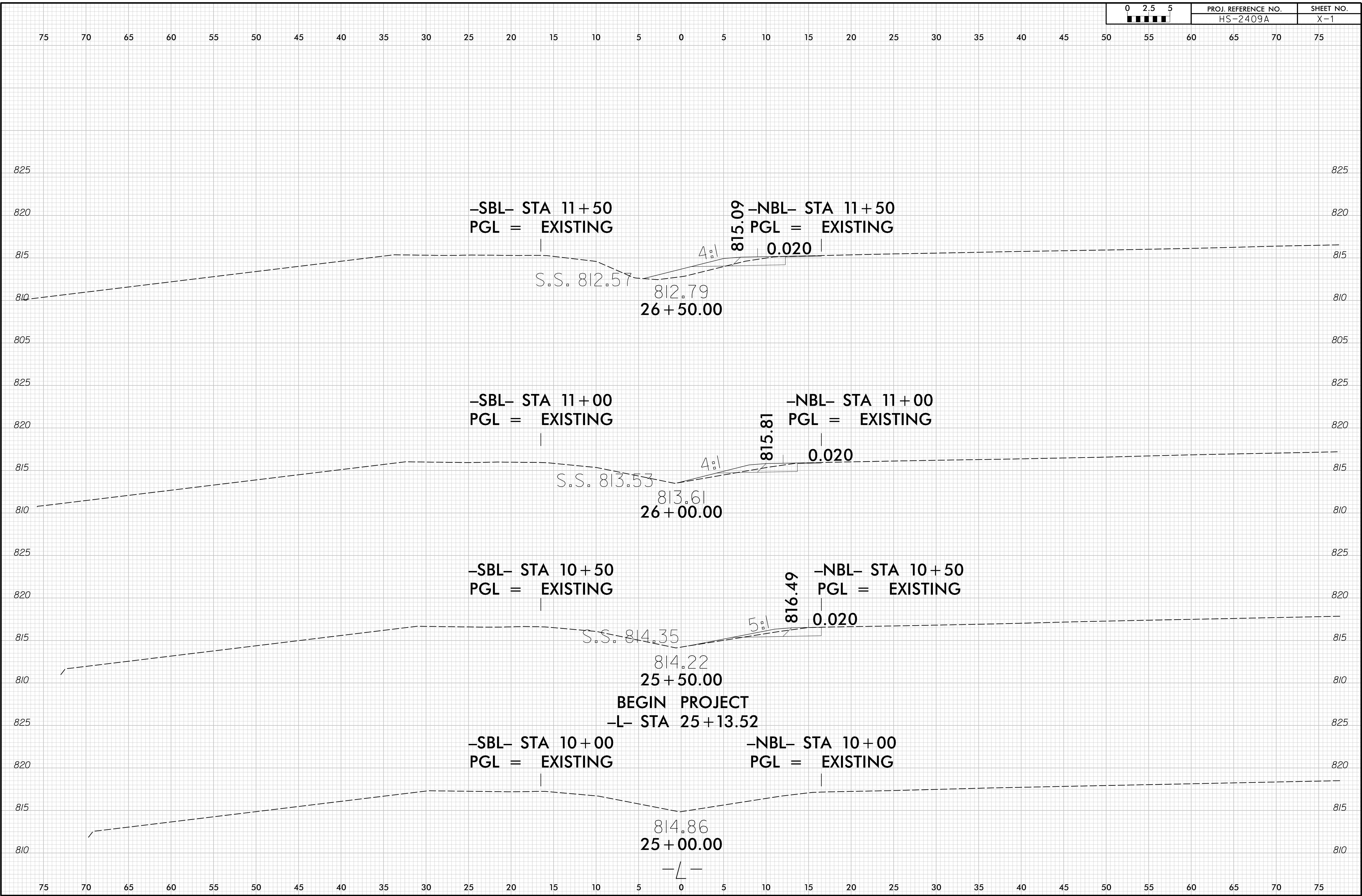
IN CUBIC YARDS

-L- LOCATION	UNCLASSIFIED EXCAVATION	EMBT
25 + 13.52	0	0
25 + 50	4	0
26 + 00	9	2
26 + 50	7	6
27 + 00	7	6
27 + 50	7	2
28 + 00	7	6
28 + 50	7	6
29 + 00	7	1
29 + 50	7	1
30 + 00	5	4
30 + 50	4	9
31 + 00	4	7
31 + 50	3	0
32 + 00	0	0
32 + 50	0	0
33 + 00	0	0
33 + 50	5	0
34 + 00	9	0
34 + 50	7	0
35 + 00	8	1
35 + 50	7	8
36 + 00	5	12
36 + 50	6	7
37 + 00	6	5
37 + 50	8	6
38 + 00	9	4
38 + 38.55	3	1

-EOT LT- LOCATION	UNCLASSIFIED EXCAVATION	EMBT
10 + 00.00 (-L- STA 44 + 45.50)	0	0
10 + 50.00 (-L- STA 44 + 95.51)	6	6
11 + 00.00 (-L- STA 45 + 45.63)	15	18
11 + 25.00 (-L- STA 45 + 70.64)	11	7
11 + 50.00 (-L- STA 45 + 90.92)	9	1
11 + 50.23 (-L- STA 45 + 91.03)	0	0

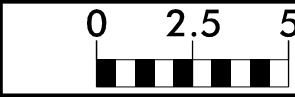
Approximate quantities only. Unclassified excavation, borrow excavation, fine grading, and removal of existing pavement will be paid for at the contract lump sum price for "grading".

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.



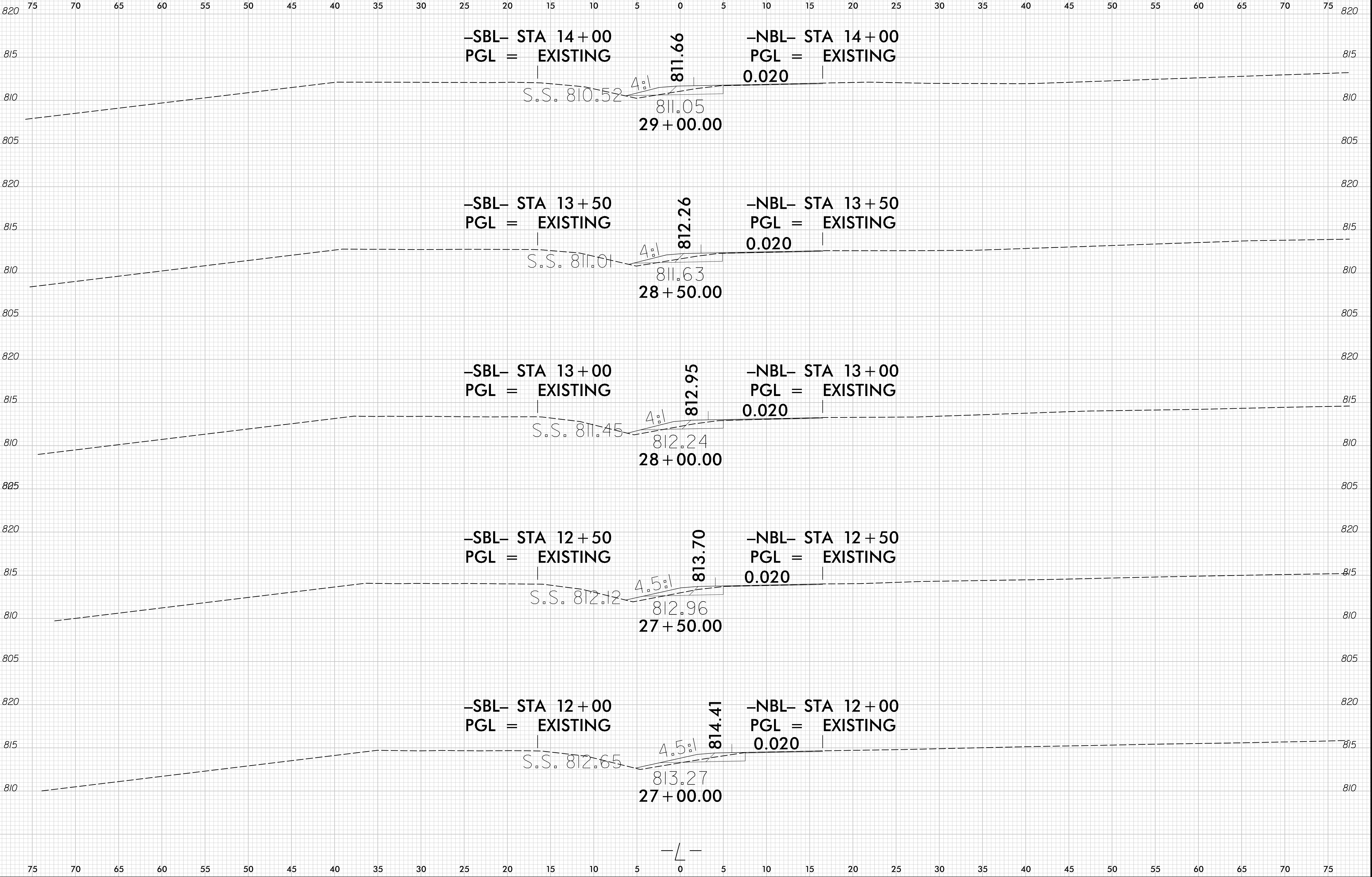
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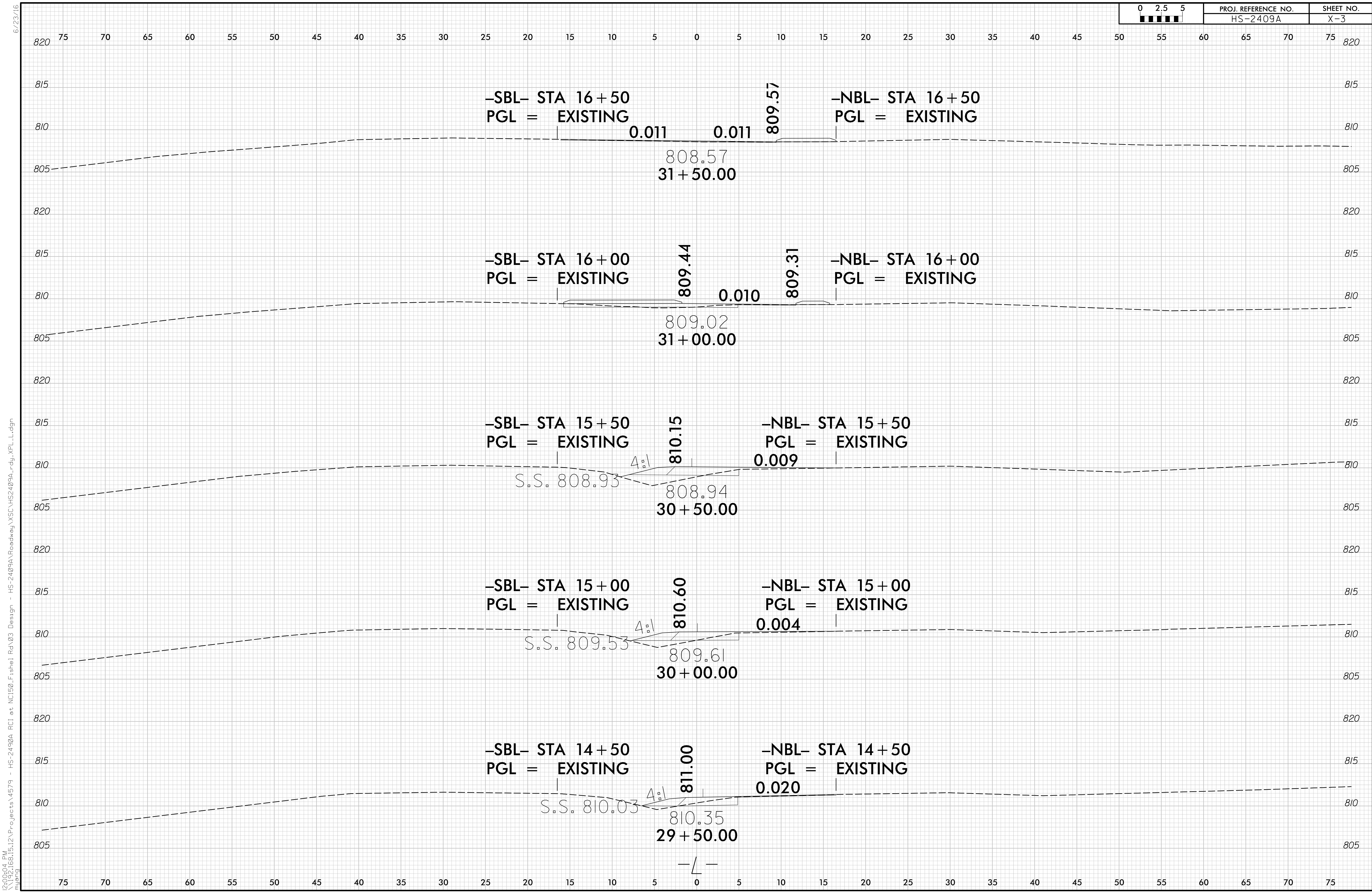
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PROJ. REFERENCE NO.
HS-2409A

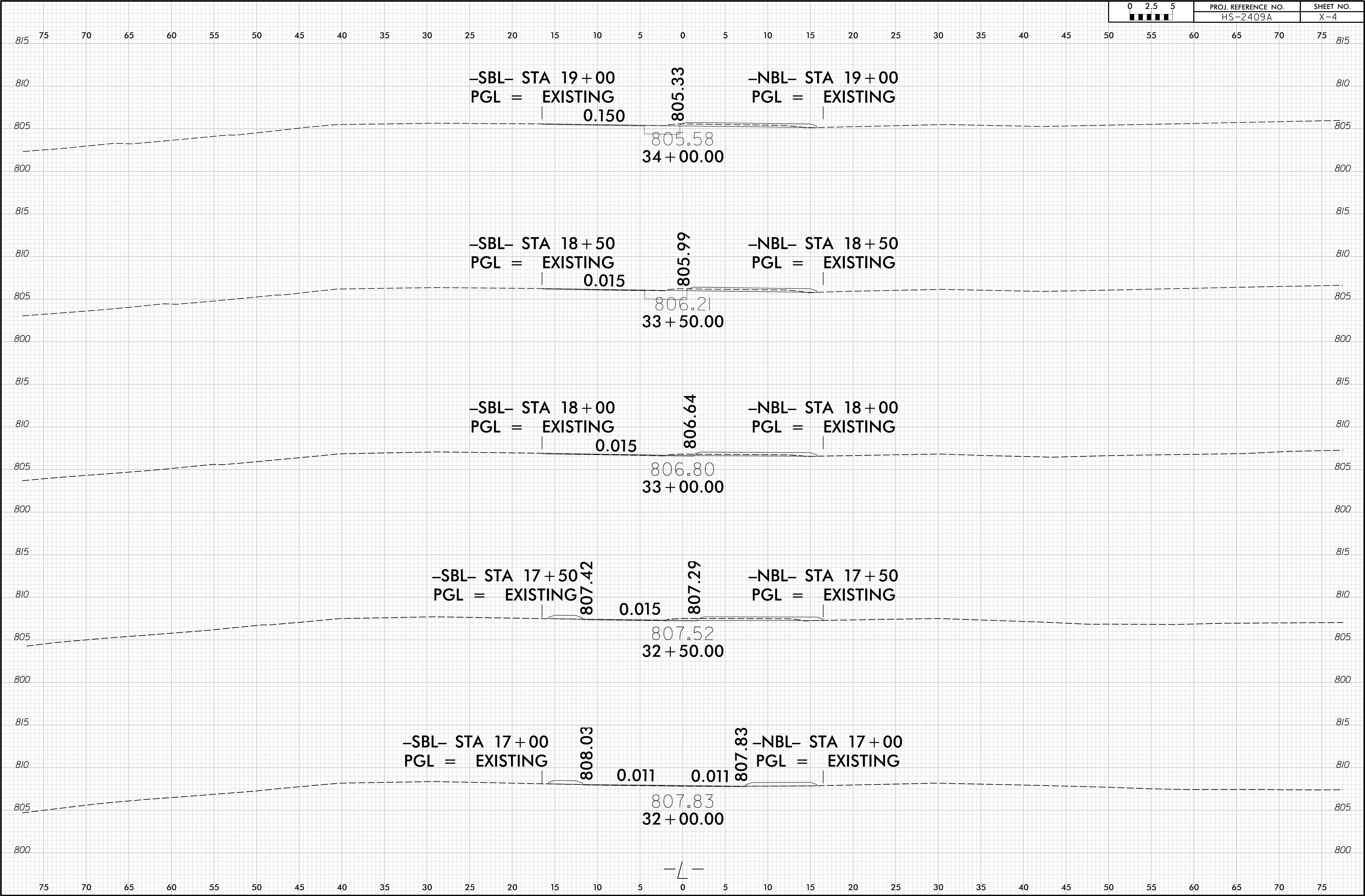
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X-2





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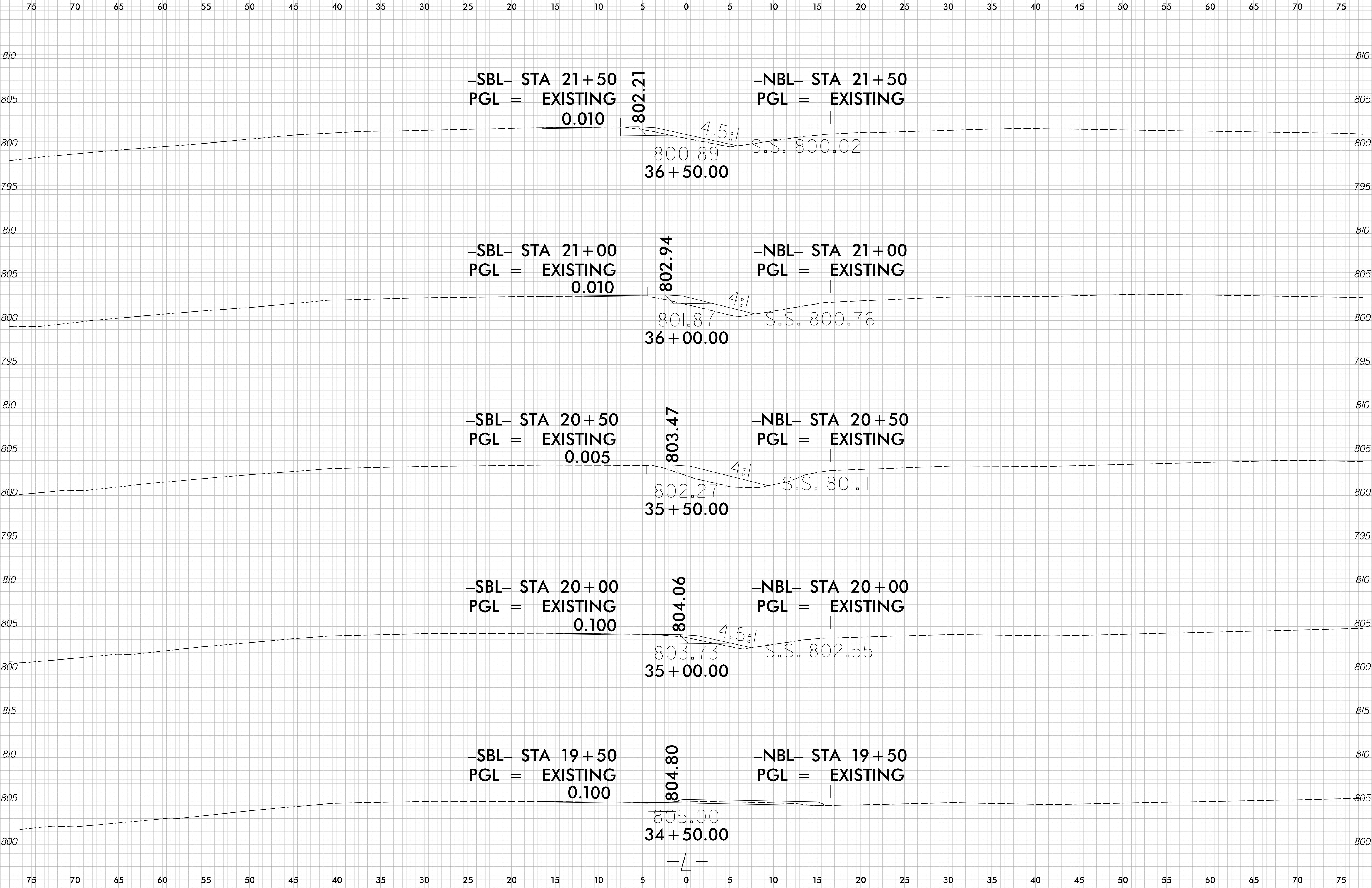
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6/23/16

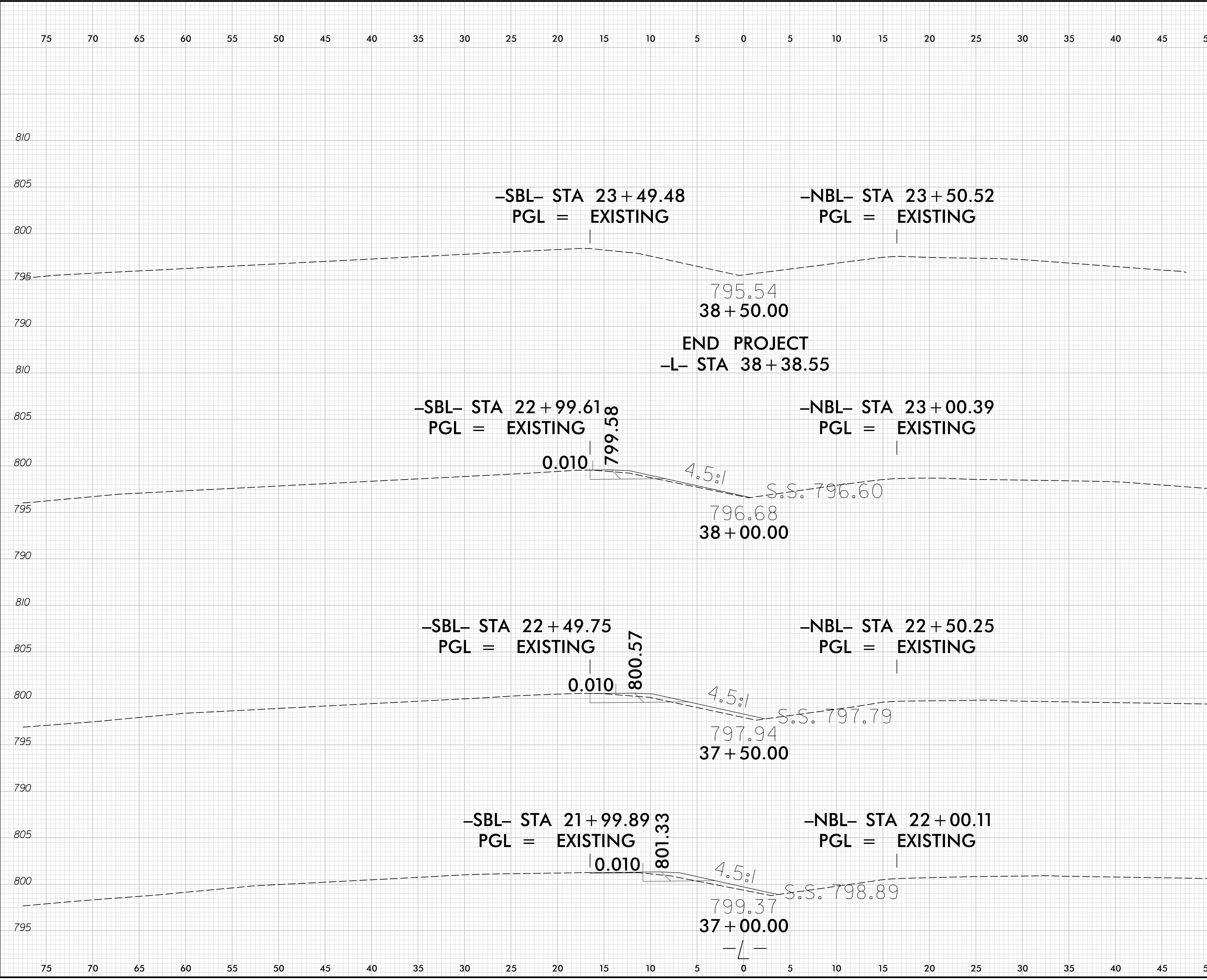
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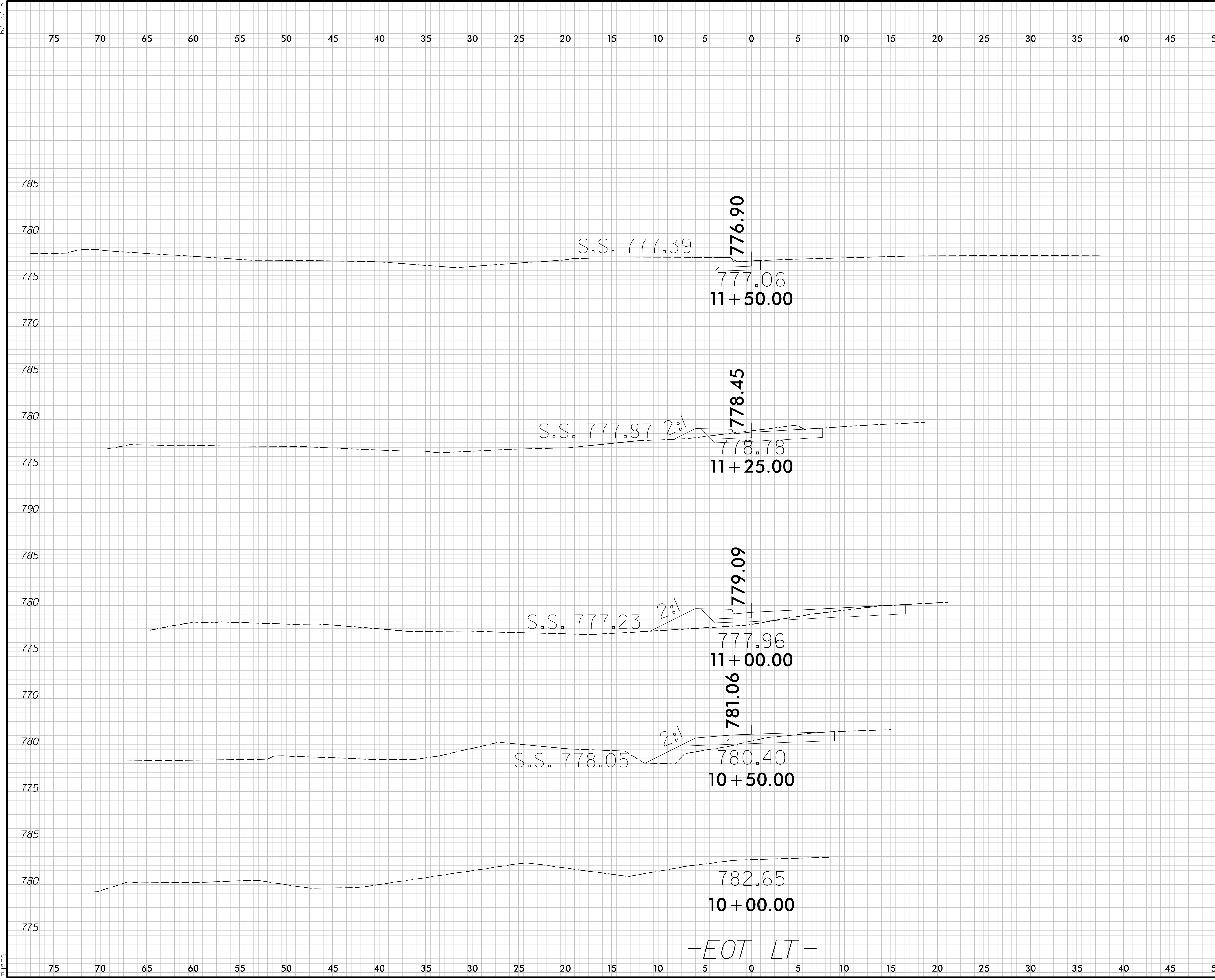
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6/23/16
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02.55	PROJ. REFERENCE NO.	SHEET NO.
	HS-2409A	X-7



-EOT LT-