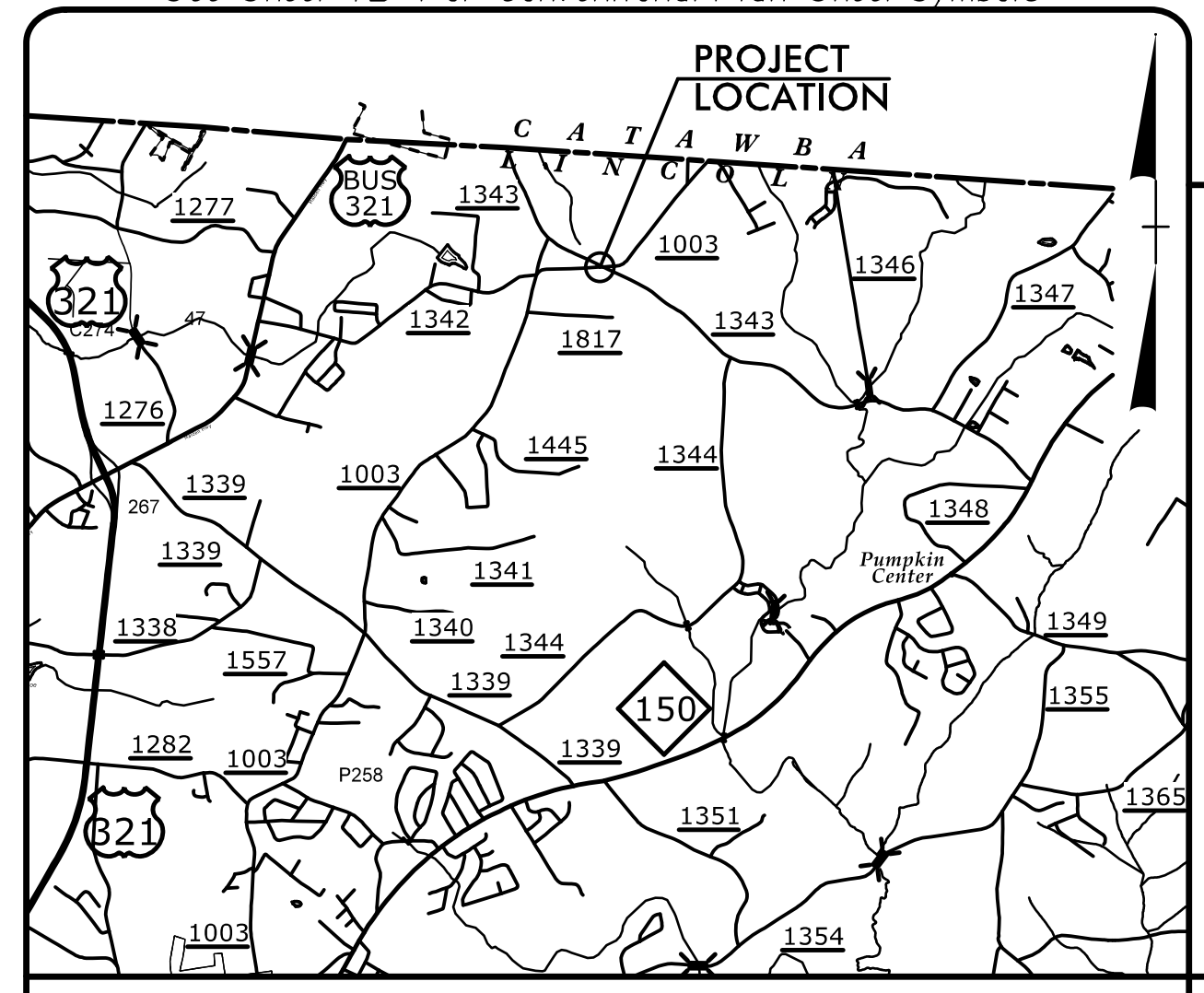


09/08/2019

TIP PROJECT: W-5712R

CONTRACT: DL00337

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



VICINITY MAP

FINAL PLANS

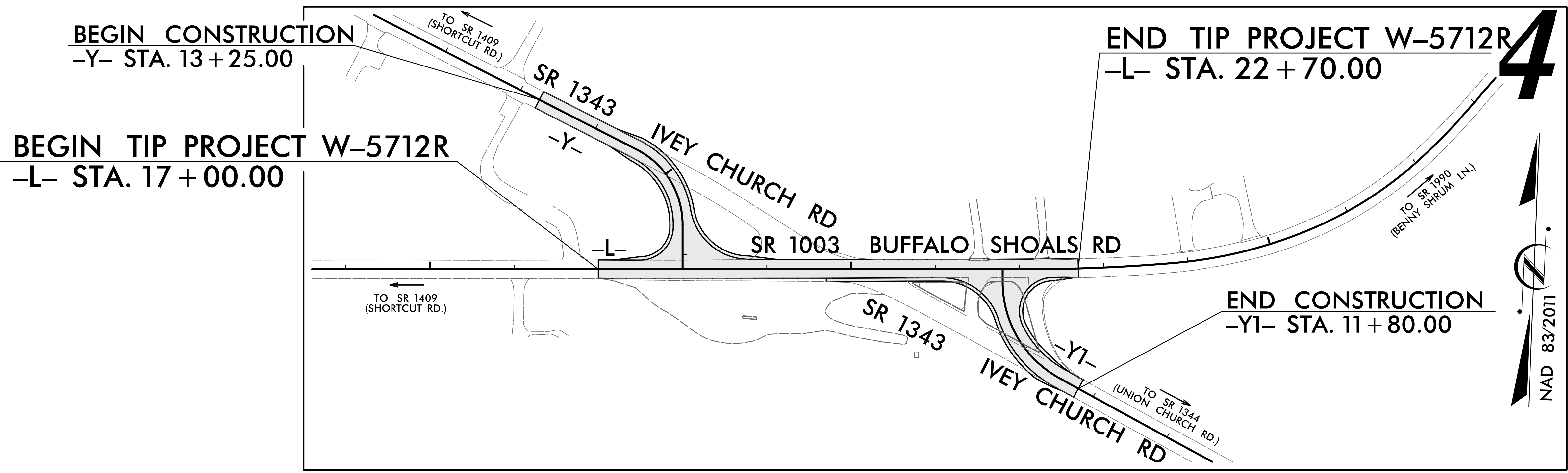
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LINCOLN COUNTY

**LOCATION: INTERSECTION IMPROVEMENTS FOR SR 1003 (BUFFALO SHOALS RD)
AT SR 1343 (IVEY CHURCH RD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND RESURFACING

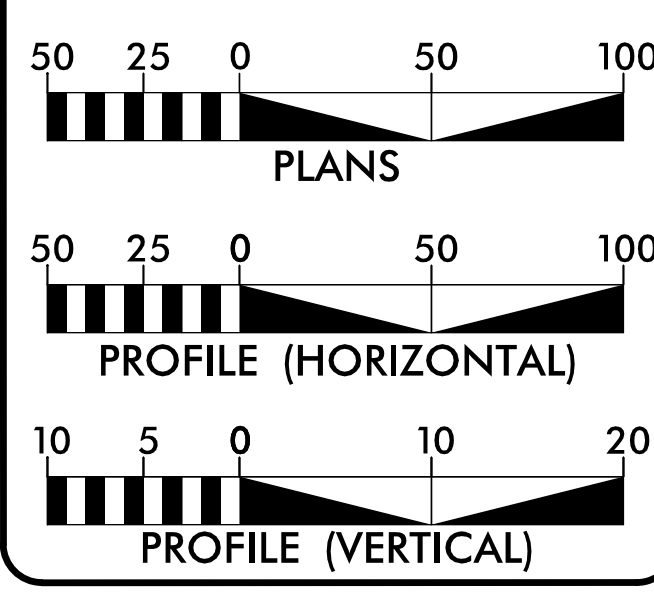
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5712R	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44858.1.18	HSIP-1003(172)	PE	
44858.2.18	HSIP-1003(172)	R/W	
44858.2.23	HSIP-1003(172)	UTIL.	
44858.3.18	HSIP-1003(172)	CONST.	



NAD 83/2011

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UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2024 = 3,500
ADT 2045 = 4,300
V = 50 MPH

FUNC CLASS =
MINOR COLLECTOR
(RURAL)
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT W-5712R = 0.108 MILES
TOTAL LENGTH PROJECT W-5712R = 0.108 MILES

NCDOT CONTACT: BRYAN SOWELL, PE

PLANS PREPARED BY: TGS ENGINEERS 201 W. MARION ST. SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	PLANS PREPARED FOR: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 12 1710 E. MARION ST SHELBY, NC 28151
---	--

RIGHT OF WAY DATE:
October 31, 2023

LETTING DATE:
October 22, 2024

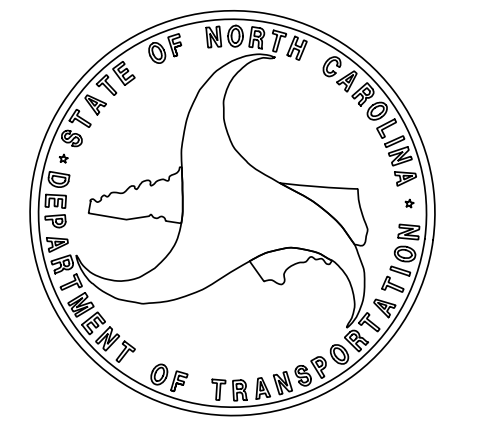
2024 STANDARD SPECIFICATIONS

HYDRAULICS ENGINEER

8/26/2024
Signed by: John W. Twisdale, Jr.
SEAL 024897
ENGINEER

ROADWAY DESIGN ENGINEER

8/23/2024
Signed by: Jimmy L. Terry
SEAL 35018
ENGINEER

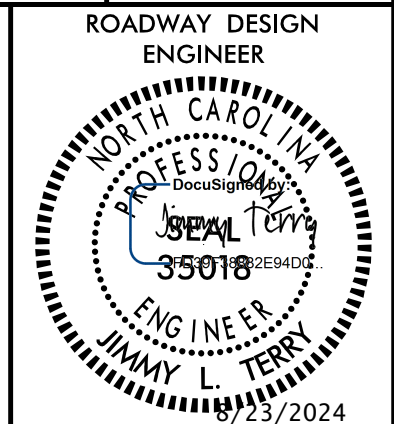


7/29/2024
X:\NCDOT\W-5712R\Roadway\Proj\W-5712R_Rdy_tsh.dgn
User:tsmelvin

8/17/99

TGS ENGINEERS
 201 W. MARION ST., STE 200
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275

PROJECT REFERENCE NO. <i>W-5712R</i>	SHEET NO. <i>1A</i>
---	------------------------



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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
3B-1	ROADWAY SUMMARIES
4	PLAN AND PROFILE SHEET
RW-1 THRU RW-04	SURVEY CONTROL SHEETS
TMP-1 THRU TMP-5	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-4	SIGNING PLANS
X-1	CROSS-SECTION INDEX
X-1A	CROSS-SECTION SUMMARY SHEET
X-2 THRU X-8	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.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 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

SIDE ROADS:

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

SUBSURFACE 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 AT&T, RUTHERFORD EMC, AND CHARTER.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

STANDARD DRAWINGS

EFF. 01-16-2024
 REV.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

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

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I

7/28/2024
 X:\Projects\W-5712R\Roadway\Proj\W-5712R.Rdy.tsh.dgn
 User: jml

5/26/2024

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	(123)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-WLB-
Proposed Wetland Boundary	-WLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-
Existing Historic Property Boundary	-HPB-
Known Contamination Area: Soil	-S-S-
Potential Contamination Area: Soil	-S-S-
Known Contamination Area: Water	-W-W-
Potential Contamination Area: Water	-W-W-
Contaminated Site: Known or Potential	☠ ☡

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

Standard Gauge	_____
RR Signal Milepost	○
Switch	□
RR Abandoned	_____
RR Dismantled	_____

RIGHT OF WAY & PROJECT CONTROL:

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

ROADS AND RELATED FEATURES:

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

Woods Line	_____
Orchard	_____
Vineyard	_____

EXISTING STRUCTURES:

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

UTILITIES:

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

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

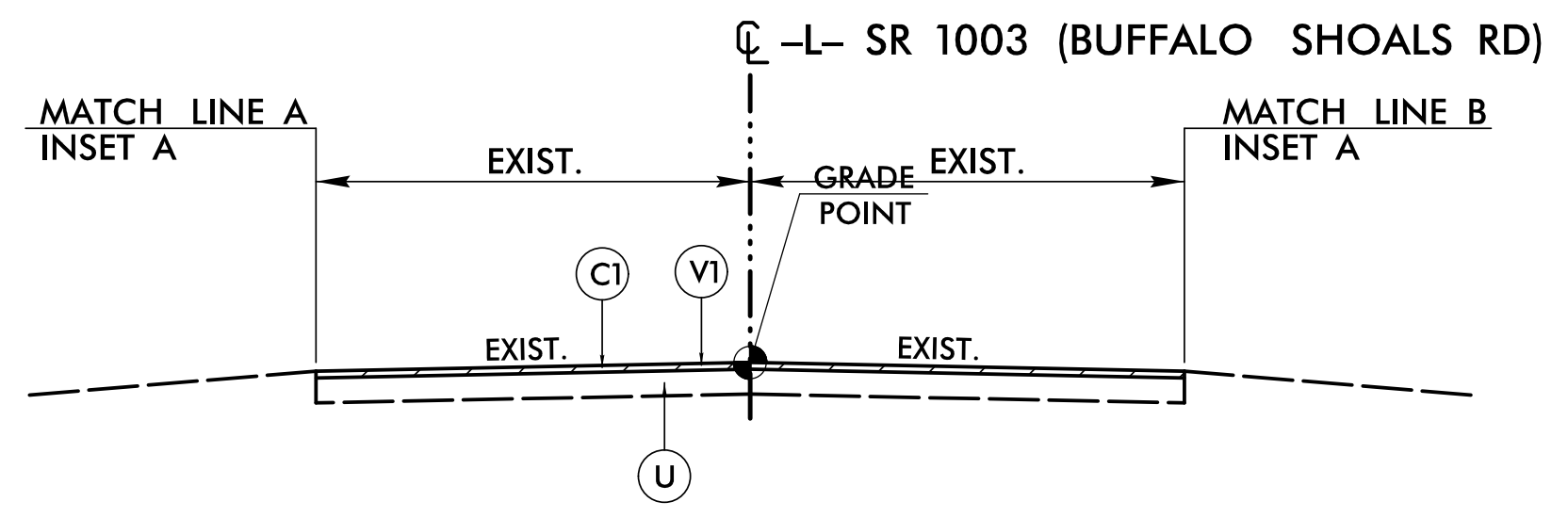
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line (SUE - LOS B)*	_____
U/G Tank; Water, Gas, Oil	_____
Underground Storage Tank, Approx. Loc.	_____
A/G Tank; Water, Gas, Oil	_____
Geoenvironmental Boring	⊕
Abandoned According to Utility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

6/2/2024

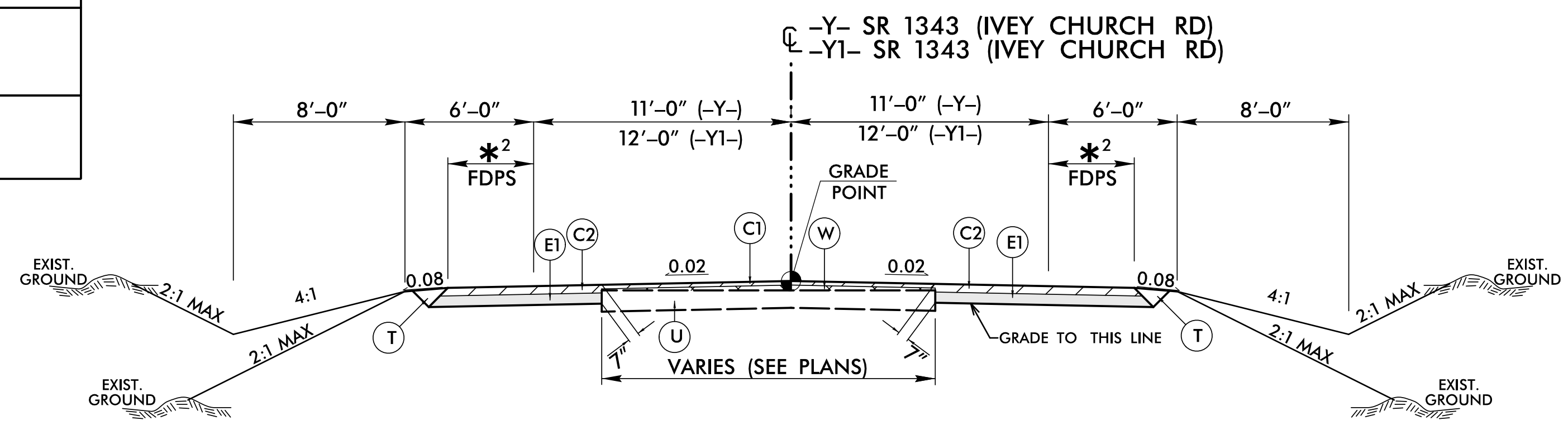
FINAL PAVEMENT SCHEDULE

C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	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 1 1/2" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	1 1/2" MILLING
V2	MILLING EXISTING PAVEMENT, SEE THIS SHEET FOR DETAIL
W	WEDGING EXISTING PAVEMENT, SEE THIS SHEET FOR DETAILS

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 1
USE TYPICAL SECTION NO.1
-L- STA. 17+00 TO -L- STA. 22+70.00



TYPICAL SECTION NO. 2
USE TYPICAL SECTION NO.2
-Y- STA. 13+75.00 TO -Y- STA. 16+06.87
-Y1- STA. 10+09.96 TO -Y1- STA. 11+30.00

NOTE: TRANSITION BETWEEN EXISTING AND TYP. SECT. NO.2 AS FOLLOWS
-Y- STA. 13+25.00 TO -Y- STA. 13+75.00
-Y1- STA. 11+30.00 TO -Y1- STA. 11+80.00

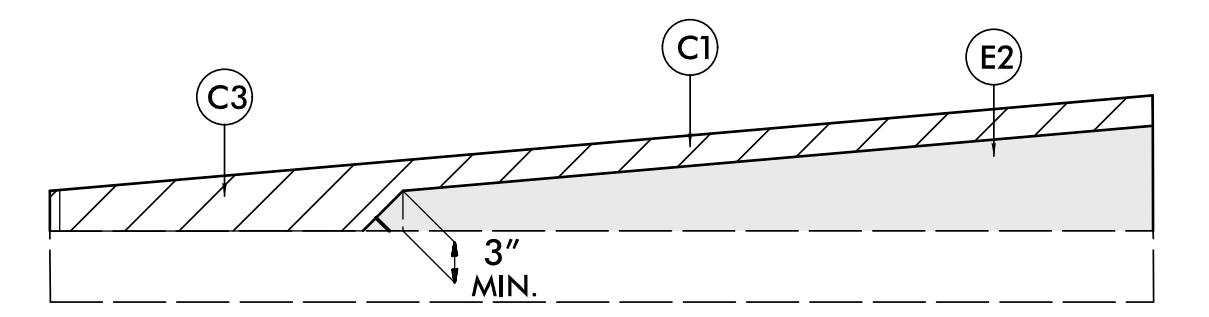
*² 0'-0" TO 4'-0"
-Y- STA. 13+75.00 TO -Y- STA. 14+22.71
-Y1- STA. 11+64.61 TO -Y1- STA. 11+80.00, RT
-Y1- STA. 11+62.33 TO -Y1- STA. 11+80.00, LT
0'-0" TO 4'-0"
-Y- STA. 14+22.71 TO -Y- STA. 14+54.71
-Y1- STA. 11+30.00 TO -Y1- STA. 11+64.61, RT
-Y1- STA. 11+30.00 TO -Y1- STA. 11+62.33, LT
4'-0"
-Y- STA. 14+54.71 TO -Y- STA. 16+06.87
-Y1- STA. 10+09.96 TO -Y1- STA. 11+30.00

NOTE: USE FULL DEPTH PAVEMENT AS FOLLOWS:
-Y- STA. 14+25.00 TO -Y- STA. 16+06.87
-Y1- STA. 10+09.96 TO -Y1- STA. 10+75.00

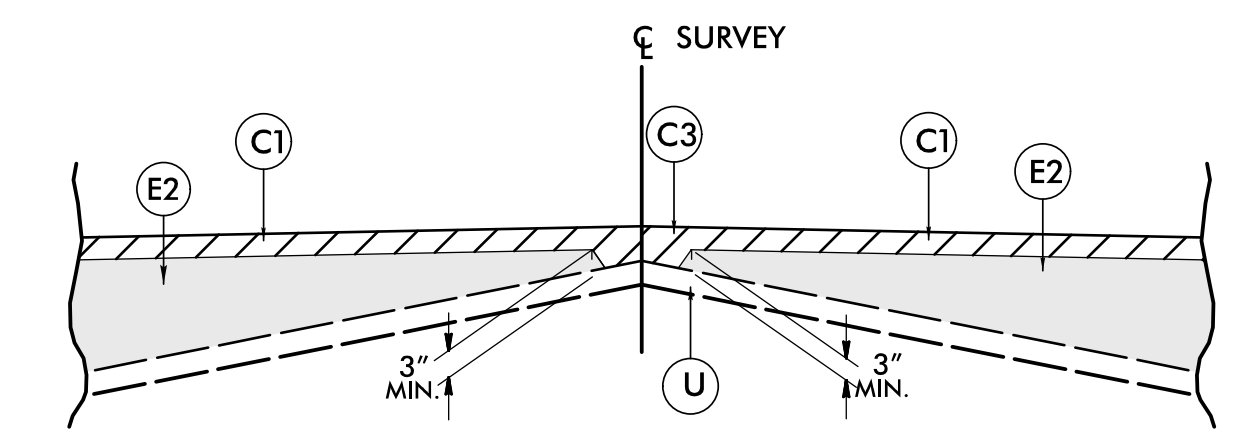
PROJECT REFERENCE NO. W-5712R	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER SEAL Terry 35018	PAVEMENT DESIGN ENGINEER SEAL Sowell 043888
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	
<p>TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	

INSET A
MATCH LINE A, & B
TYP. SECT. NO. 1

USE INSET A
*¹ 0'-0" TO 4'-0"
-L- STA. 17+18.28 TO -L- STA. 17+48.83, LT
-L- STA. 18+78.47 TO -L- STA. 19+11.38, LT
-L- STA. 22+39.46 TO -L- STA. 22+65.91, RT
4'-0"
-L- STA. 17+48.83 TO -L- STA. 17+50.00, LT
-L- STA. 19+70.62 TO -L- STA. 21+07.89, RT



WEDGING DETAIL FOR RESURFACING



DETAIL SHOWING METHOD OF WEDGING

MILLING DETAIL

USE MILLING DETAIL AS FOLLOWS:
MILLING AND RESURFACING:
-Y- STA. 13+25.00 TO -L- STA. 14+00.00
-Y1- STA. 11+05.00 TO -L- STA. 11+80.00

7/28/2024 X:\Roadway\W-5712R\Roadway\Proc\W-5712R_Rdy_tjpl.dgn User:stam1

COMPUTED BY: SGM DATE: 7/25/2024
 CHECKED BY: JLT DATE: 7/29/2024

PROJECT NO.	SHEET NO.
W-5712R	3B-1

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK IN CUBIC YARDS

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
-L- 17+00.00, LT	-L- 19+11.38, LT	2	3	1	
-Y- 13+25.00	-Y- 16+16.87	30	404	374	
SUBTOTAL 1		32	407	375	0
-L- 19+70.62, RT	-L- 22+65.91, RT	83	1		82
-Y1- 10+09.96	-Y- 11+80.00	236	10		226
SUBTOTAL 2		319	11	0	308
PROJECT TOTALS:		351	418	375	308
WASTE IN LIEU OF BORROW				-308	-308
PROJECT TOTALS:		351	418	67	0
EST 5% TO REPLACE TOP SOIL ON BORROW PIT				3	
GRAND TOTALS:		351	418	70	0
SAY:		400		100	

ESTIMATED CONTINGENCY UNDERCUT = 50 CY
 ESTIMATED CONTINGENCY SELECT GRANULAR MATERIAL = 50 CY

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for grading.

Note: Earthwork quantities are calculated by TGS Engineers. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

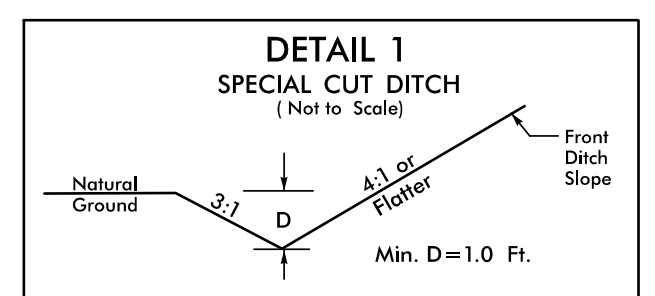
PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS

SURVEY LINE	Station	Station	LOCATION LT/RT/CL	ASPHALT REMOVAL
-Y-	Exist. Ivey Church Road			634.9
-Y1-	Exist. Ivey Church Road			664.16
-Y1-	SR 1003 On-Ramp			200.26
TOTAL				1499.32
SAY:				1500

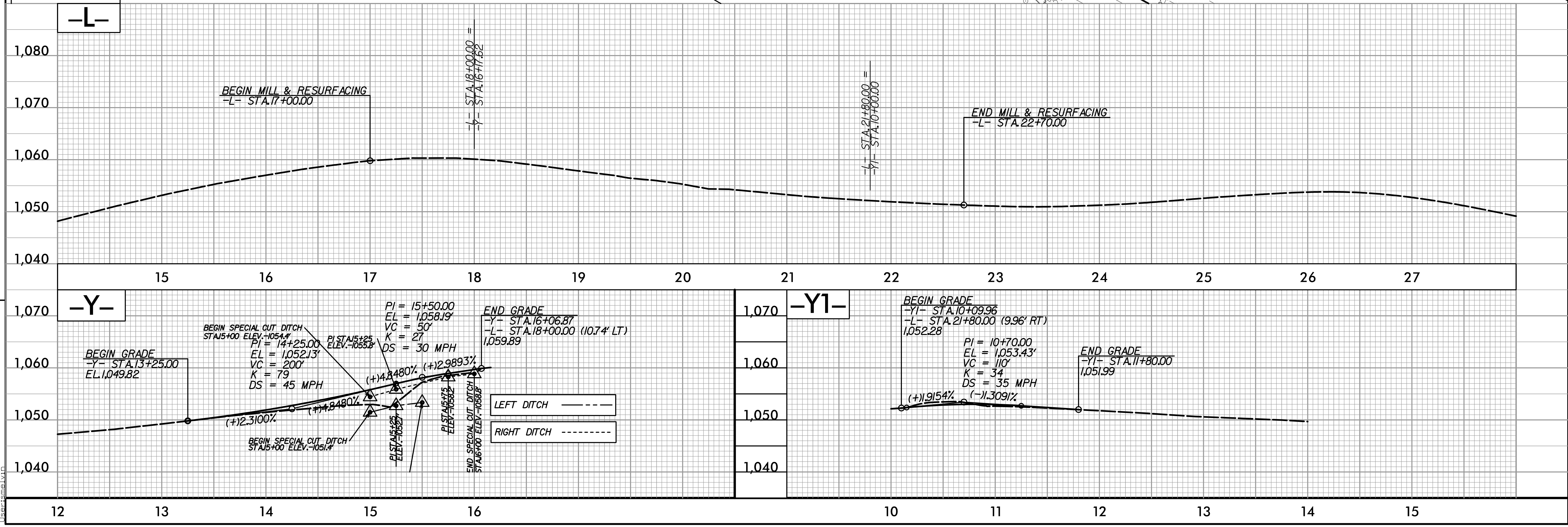
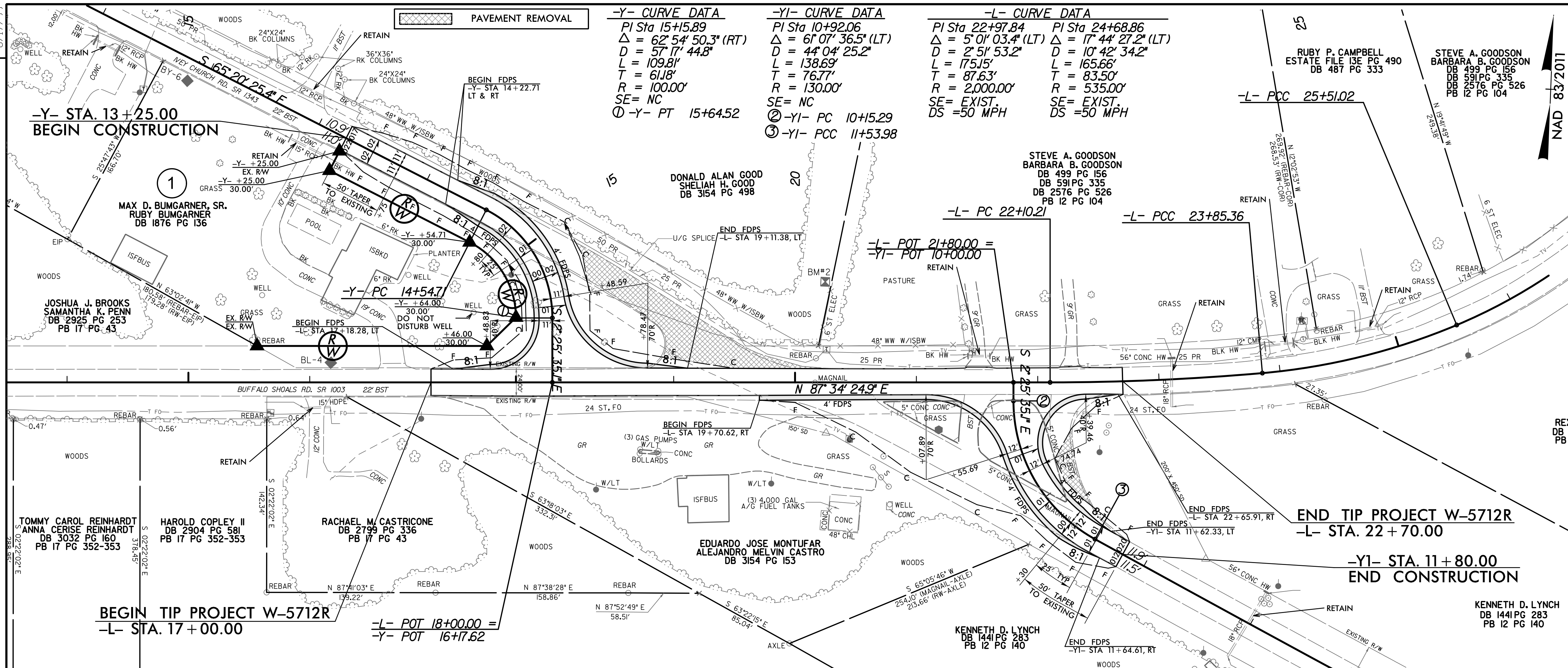
PROJECT REFERENCE NO. W-5712R	SHEET NO. 4
ROADWAY DESIGN ENGINEER SEAL Tom 35018 JIMMY L. TERRY 8/23/2024	HYDRAULICS ENGINEER SEAL W. Twissdale, Jr. 024897 8/26/2024

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
201 W. MARION ST
SUITE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275



FROM STA.15+00 TO STA.16+00-Y- RT.
FROM STA.15+00 TO STA.15+50-Y- LT.




REVISIONS

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12/28/2024 10:00 AM

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

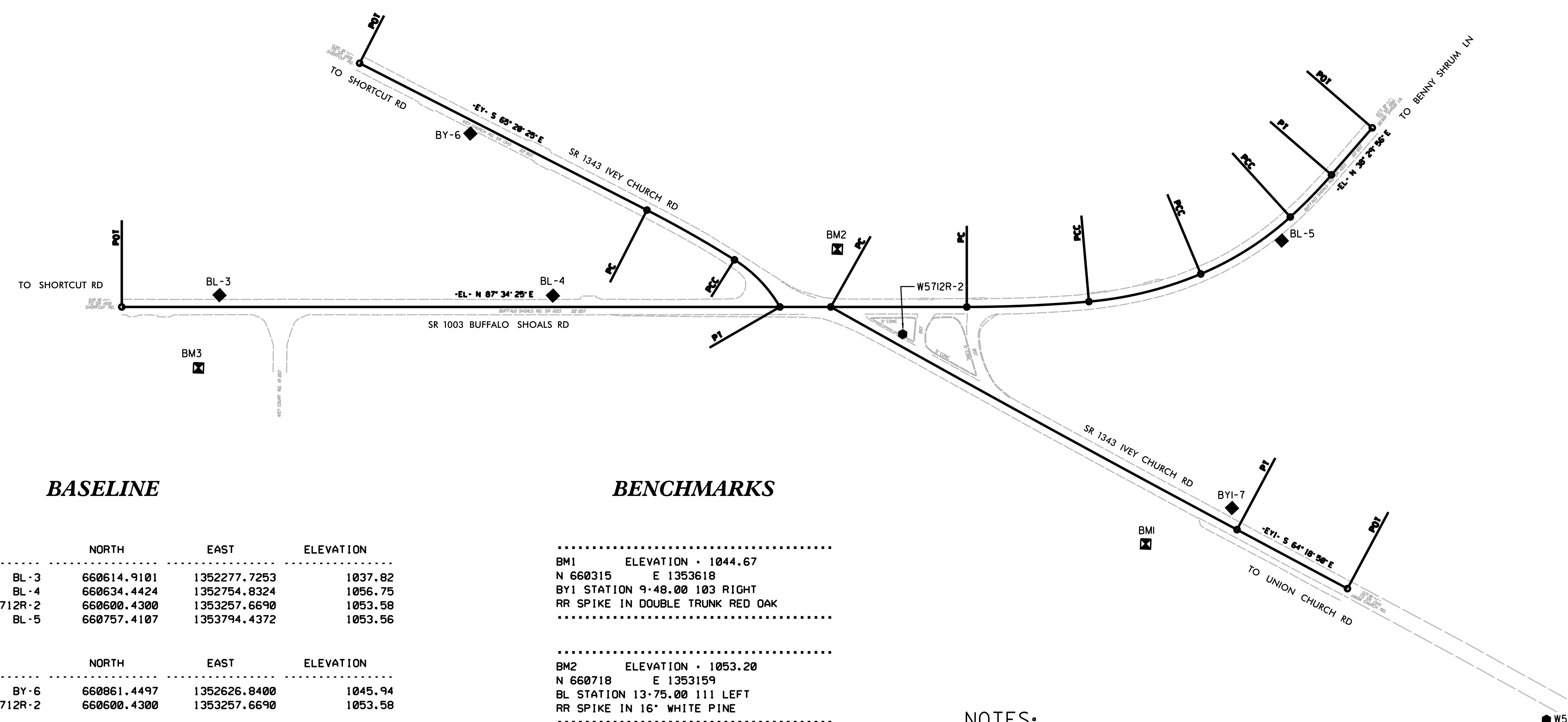
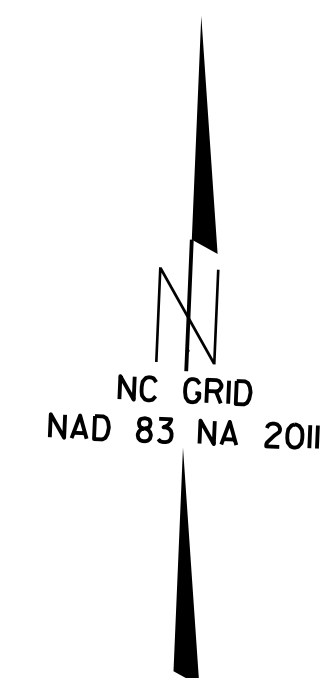
PROJECT REFERENCE NO. W-5712R	SHEET NO. RW02C-1
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

EXISTING ALIGNMENTS

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	660592.107	1352138.647							
LINE			N 87°34'24.9" E	1210.21					
PC	660643.343	1353347.777							
CURVE			N 85°03'53.2" E	175.09	05°01'03.4"(L.T)	02°51'53.2"	175.15	87.63	2000.00
PCC	660658.406	1353522.219							
CURVE			N 73°41'07.9" E	164.99	17°44'27.2"(L.T)	10°42'34.2"	165.66	83.50	535.00
PCC	660704.755	1353680.570							
CURVE			N 55°05'23.0" E	152.03	19°27'02.5"(L.T)	12°43'56.6"	152.77	77.12	450.00
PCC	660791.762	1353805.245							
CURVE			N 41°55'53.9" E	84.43	06°51'55.8"(L.T)	08°07'37.4"	84.48	42.29	705.00
PT	660854.571	1353861.662							
LINE			N 38°29'55.9" E	89.16					
POT	660924.349	1353917.164							

EY									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	660955.391	1352464.249							
LINE			S 65°20'25.4" E	462.15					
PC	660762.571	1352884.249							
CURVE			S 62°49'16.8" E	144.16	05°02'17.1"(RT)	03°29'37.1"	144.21	72.15	1640.00
PCC	660696.724	1353012.492							
CURVE			S 46°23'03.8" E	93.81	27°50'08.9"(RT)	29°22'56.8"	94.74	48.32	195.00
PT	660632.014	1353080.407							

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	660635.099	1353153.213							
CURVE			S 63°40'48.6" E	663.54	01°16'02.3"(L.T)	00°11'27.5"	663.55	331.79	30000.00
PT	660340.897	1353747.967							
LINE			S 64°18'49.8" E	179.33					
POT	660263.170	1353909.572							



BASELINE

BL POINT	DESC.	NORTH	EAST	ELEVATION
3	BL - 3	660614.9101	1352277.7253	1037.82
4	BL - 4	660634.4424	1352754.8324	1056.75
2	W5712R-2	660600.4300	1353257.6690	1053.58
5	BL - 5	660757.4107	1353794.4372	1053.58

BY POINT	DESC.	NORTH	EAST	ELEVATION
6	BY - 6	660861.4497	1352626.8400	1045.94
E02	W5712R-2	660600.4300	1353257.6690	1053.58

BY1 POINT	DESC.	NORTH	EAST	ELEVATION
E02	W5712R-2	660600.4300	1353257.6690	1053.58
7	BY1 - 7	660371.5595	1353739.4023	1048.29
1	W5712R-1	660087.5810	1354202.2120	1034.98

BENCHMARKS

.....
 BM1 ELEVATION = 1044.67
 N 660315 E 1353618
 BY1 STATION 9+48.00 103 RIGHT
 RR SPIKE IN DOUBLE TRUNK RED OAK

.....
 BM2 ELEVATION = 1053.20
 N 660718 E 1353159
 BL STATION 13+75.00 111 LEFT
 RR SPIKE IN 16" WHITE PINE

.....
 BM3 ELEVATION = 1033.76
 N 660510 E 1352252
 BL STATION 5+00.00
 S 13+38'54.5" W DIST 108.44
 RR SPIKE IN 20" OAK

NOTES:

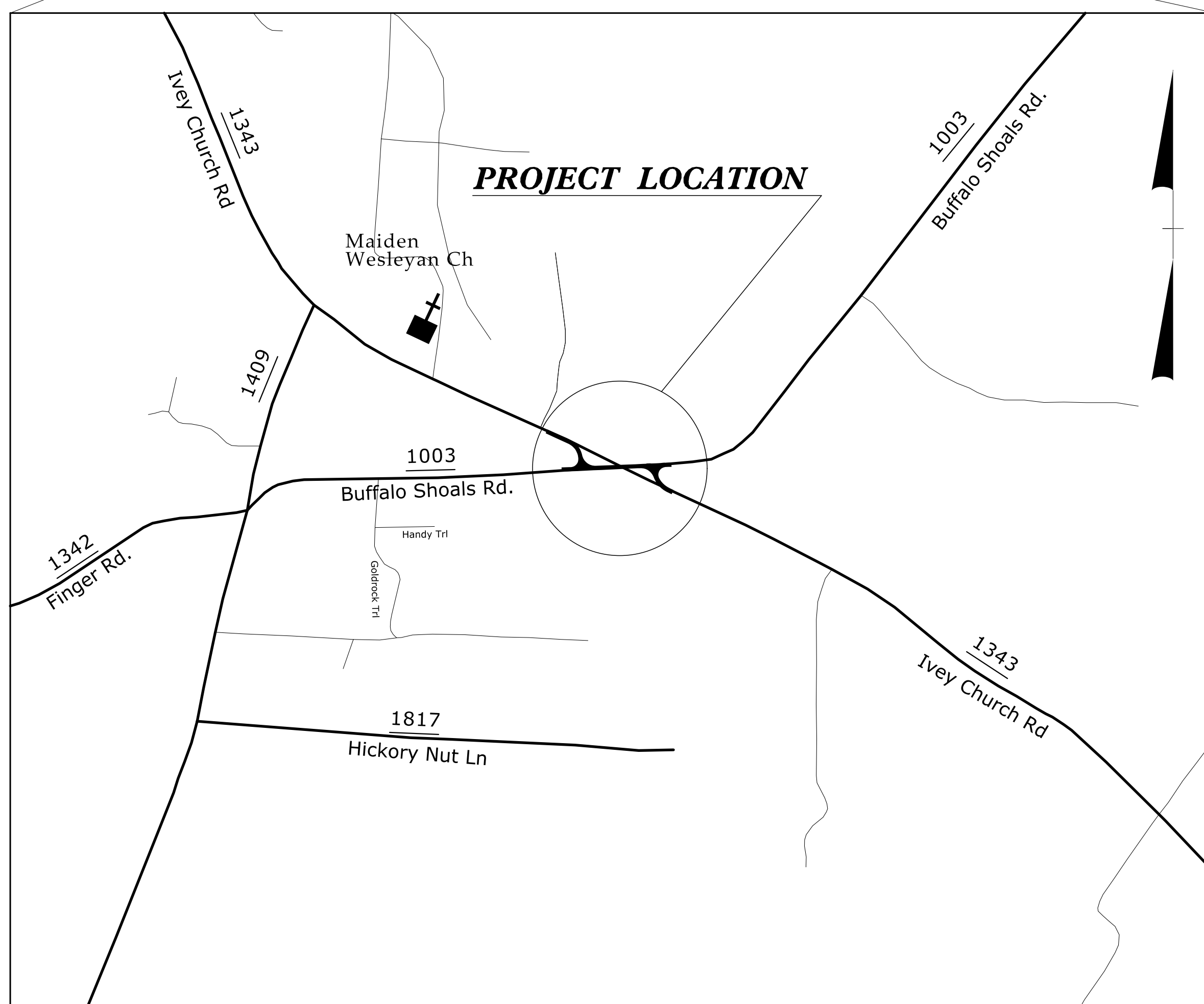
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

LINCOLN COUNTY

LOCATION: INTERSECTION IMPROVEMENTS FOR SR 1003 (BUFFALO SHOALS RD)
AT SR 1343 (IVEY CHURCH RD)



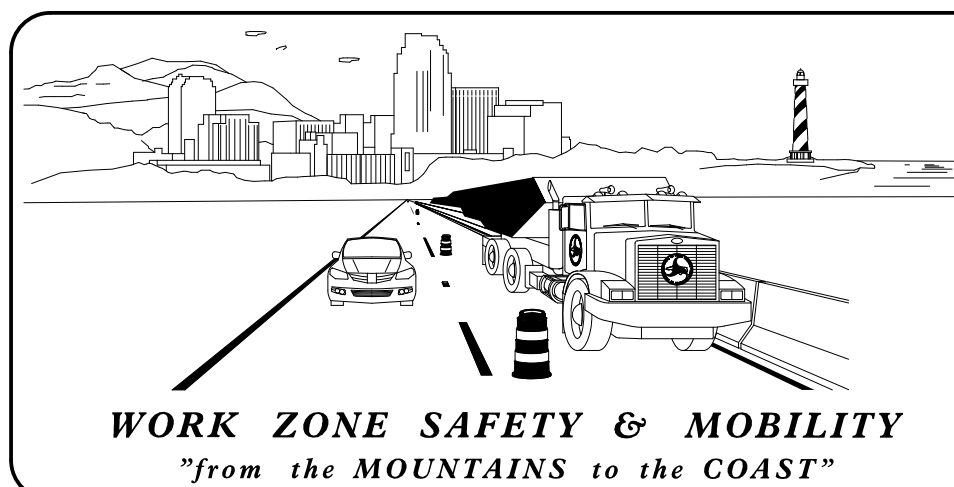
VICINITY MAP

INDEX OF SHEETS

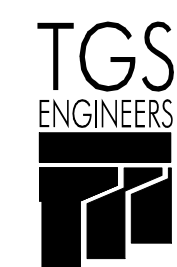
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2	TEMPORARY DETOUR
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	TEMPORARY TRAFFIC CONTROL PHASE I
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE II

SHEET NO.
TMP-1

7/24/2024 X:\NCDOT\W-5712R\TrafficControl\TCP\W-5712R_TC_TMP_01(TSH).dgn User:tbrannon



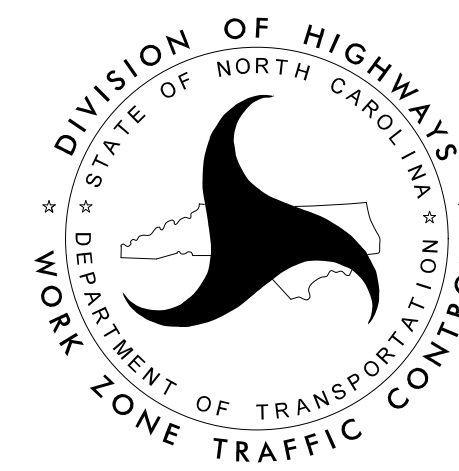
PLANS PREPARED FOR N.C.D.O.T. BY: TGS ENGINEERS



TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

DON A. PARKER, P.E.
PROJECT ENGINEER

CODA BRANNAN, E.I.
DESIGN ENGINEER



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UNLESS ALL SIGNATURES COMPLETED

/ / DATE SUBMITTED

SUBMITTAL:

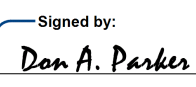
STAGING CONCEPT

MIDPOINT


PRE-FINAL

FINAL

DO NOT USE FOR CONSTRUCTION

APPROVED: 
7508690ADEF440

DATE: 8/23/2024



TIP PROJECT: W-5712R






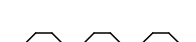
ROADWAY STANDARD DRAWINGS

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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS




LEGEND

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)









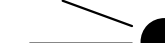


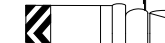

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES




TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

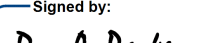

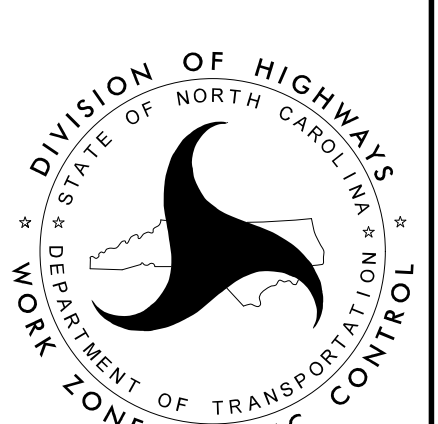
PAVEMENT MARKERS


-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

7/24/2024
 X:\NCDOT\W-5712R\TrafficControl\TOP\W-5712R_TC_TMP_01A (STD LEGEND).dgn
 User: tbrannon

APPROVED:  DATE: 8/23/2024			ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PROJ. REFERENCE NO.	SHEET NO.
W-5712R	TMP-1B
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

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 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
-L- BUFFALO SHOALS RD	MONDAY THRU FRIDAY 7:00 AM TO 9:00 AM AND
-Y-/-Y1- IVEY CHURCH RD	4:00 PM TO 6:00 PM

- B) 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.
- C) 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.
- D) 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.
- E) 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.
- F) 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.
- G) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- J) 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.
- K) 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.
- L) 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.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- N) 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.
- O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

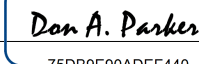
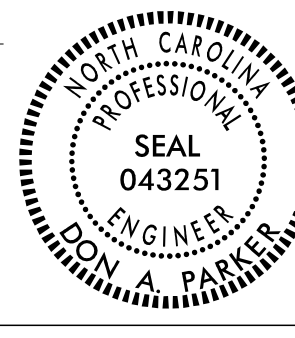
PAVEMENT MARKINGS AND MARKERS

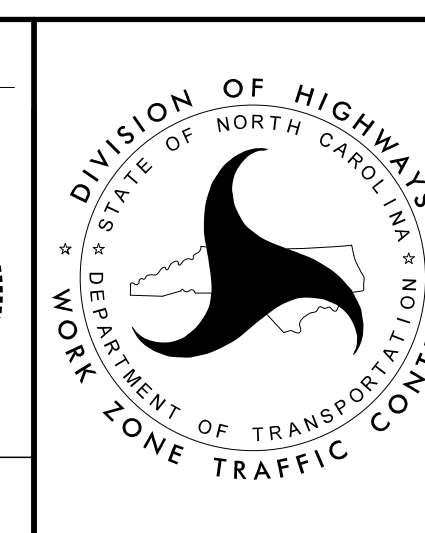
- P) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Q) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- R) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

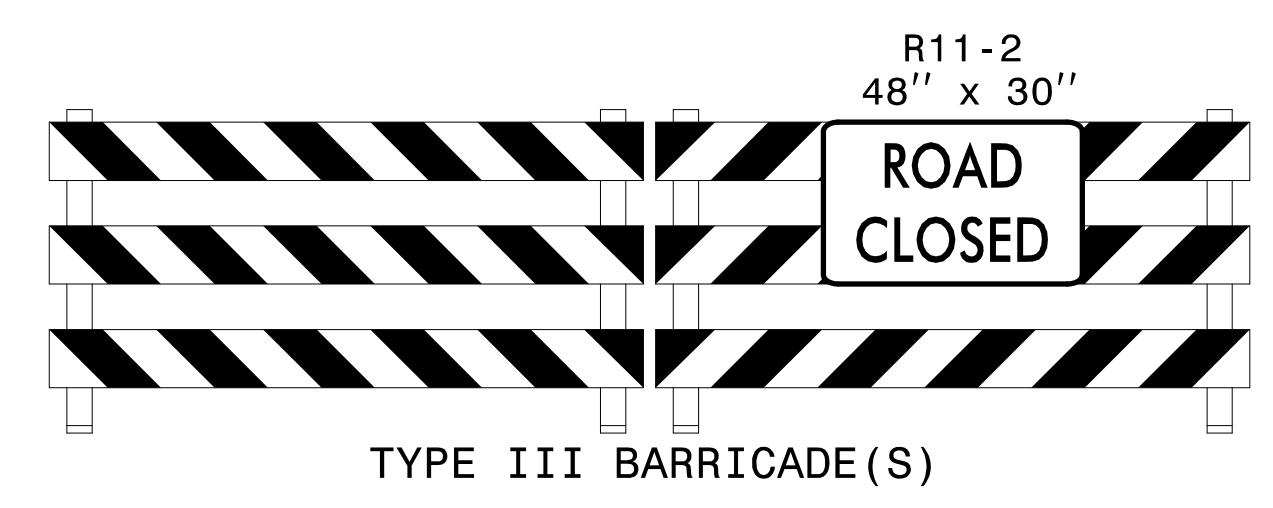
- S) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 1000 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

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APPROVED:  Signed by: Don A. Parker
 DATE: 8/23/2024

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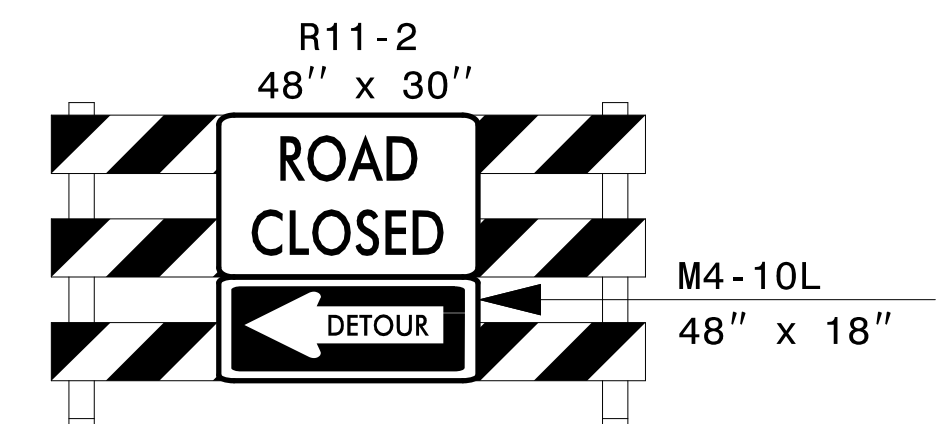


**TRANSPORTATION
OPERATIONS
PLAN**



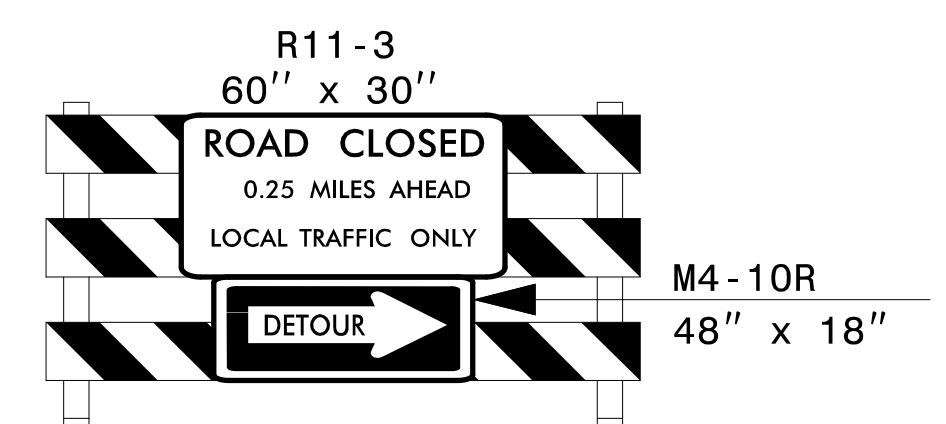
TYPE III BARRICADE(S)

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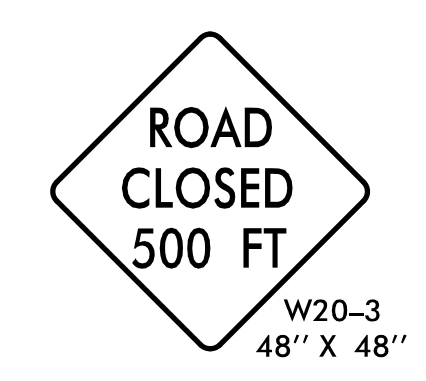
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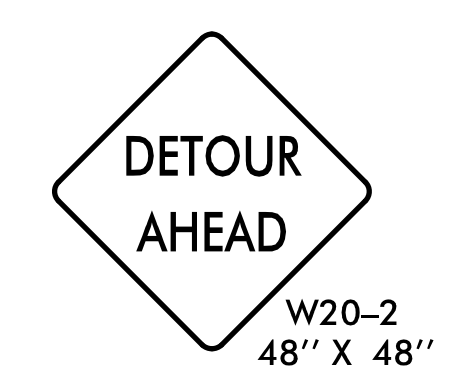


TYPE III BARRICADE

(C)



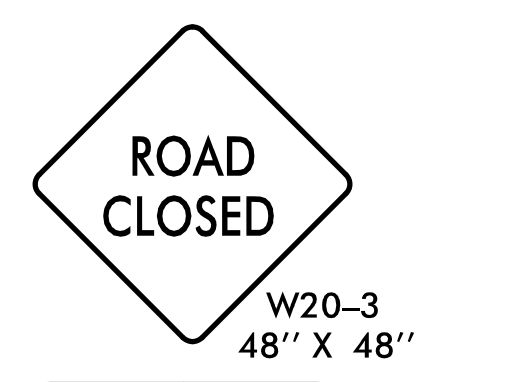
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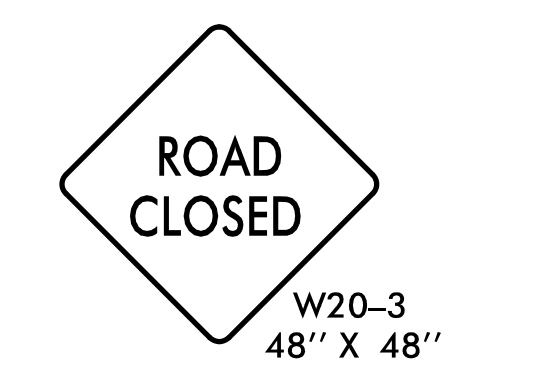
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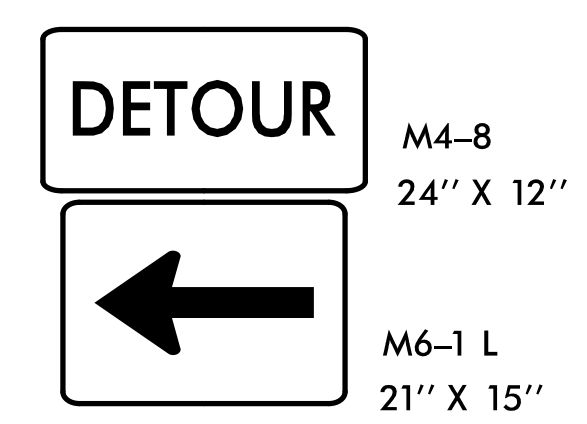
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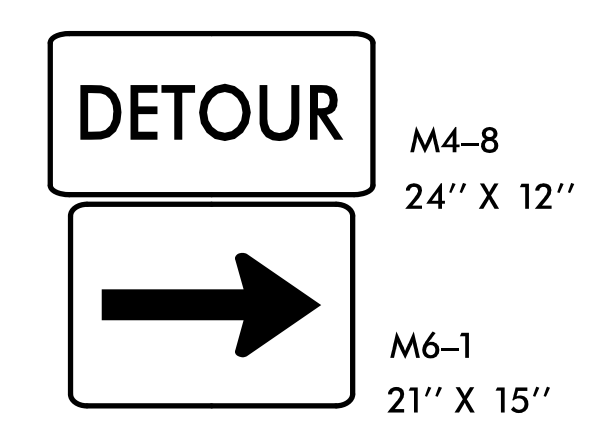
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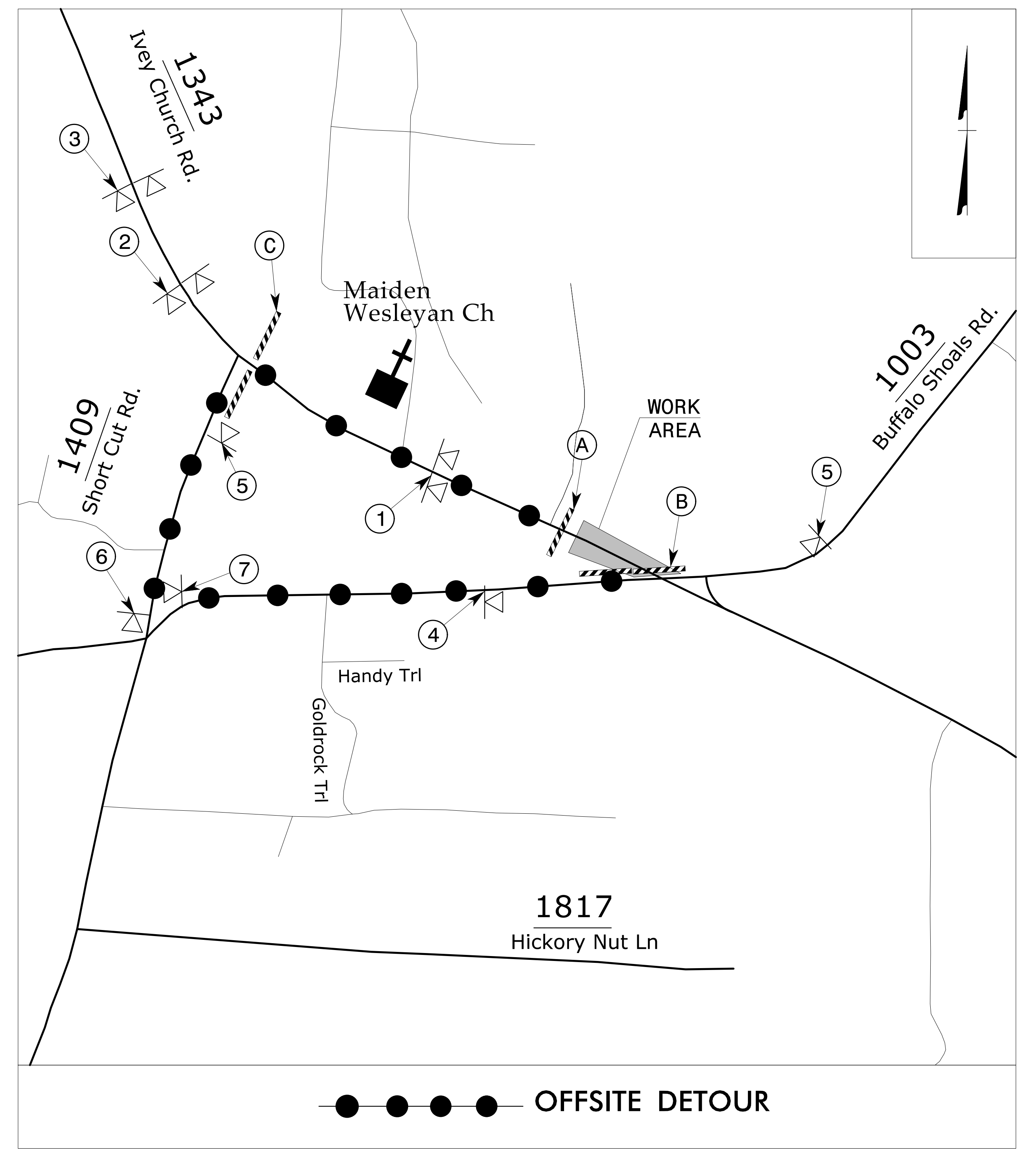
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(6)




(7)



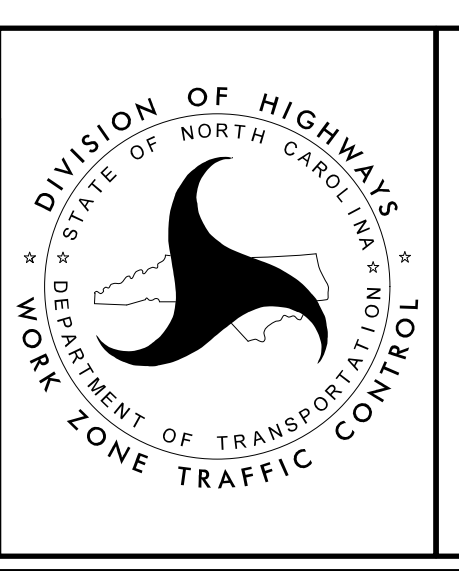
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 User:cdbrannan

APPROVED: Don A. Parker
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DATE: 8/23/2024




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UNLESS ALL SIGNATURES COMPLETED**



**SHORT TERM
WEEKEND DETOUR
TO TIE-IN
-Y-**

PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-5712R	TMP-3
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

NOTE: UNLESS STATED OTHERWISE, RETURN TRAFFIC TO THE EXISTING PATTERN AT THE END OF EACH WORK PERIOD.

MAINTAIN ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES.

CONDUCT GRADING AND PAVING OPERATIONS IN A MANNER THAT DOES NOT POND WATER.

PHASE I

STEP 1 -- INSTALL WORK ZONE ADVANCE WARNING SIGNS. (SEE RSD 1101.01).

STEP 2 -- PERFORM CLEARING, GRADING, AND NEW CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE FOLLOWING LOCATIONS:

- -Y- STA. 14+84 +/- TO STA. 16+00 +/-
- -Y1- STA. 10+14 +/- TO STA. 11+15 +/-

STEP 3 -- INSTALL AND COVER "NEW TRAFFIC PATTERN AHEAD" W23-2 SIGN.

PHASE II

STEP 1 -- USING FLAGGERS, TIE IN THE NEW ALIGNMENT OF -Y1-, UNCOVER W23-2 SIGNS, AND OPEN TO THE PHASE II PATTERN. PLACE TYPE III BARRICADE TO CLOSE THE OLD ALIGNMENT (SEE TMP-5).

- INSLALL AND COVER DETOUR ADVANCE WARNING SIGNS AND TRAILBLAZING SIGNS (SEE RSD 1101.03 SHEET 1 OF 9, TMP-2, AND TMP-5).

COMPLETE THE WORK OF PHASE II STEP 2 BETWEEN THE TIMES OF FRIDAY AT 6:00 PM AND THE FOLLOWING MONDAY AT 7:00 AM. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

STEP 2 -- CLOSE -Y- IVEY CHURCH RD TO THRU TRAFFIC.

- CONSTRUCT THE TIE-IN OF -Y- IVEY CHURCH RD UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- REOPEN -Y- IVEY CHURCH RD TO THE FINAL TRAFFIC PATTERN, UNCOVER W23-2 SIGNS, AND REMOVE ALL DETOUR SIGNS.

STEP 3 -- REMOVE ASPHALT PAVEMENT ACCORDING TO THE ROADWAY PLANS.

PHASE III

STEP 1 -- MILL -L- BUFFALO SHOALS RD FROM -L- STA. 17+00 +/- TO 22+70 +/- ACCORDING TO THE ROADWAY PLANS.

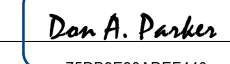
NOTE:

- THE FOLLOWING OPTIONS ARE AVAILABLE DURING RESURFACING AND MILLING OPERATIONS ON -Y- BUFFALO SHOALS RD:
 - A.) MILL A SINGLE LANE AND PAVE BACK BY THE END OF WORKDAY.
 - B.) MILL THE ENTIRE WIDTH OF ROADWAY AND PAVE BACK WITHIN 72 HOURS.
- IF MILLED AREAS ARE NOT PAVED BACK WITHIN 72 HOURS, INSTALL PORTABLE W8-15 AND W8-15P SIGNS 500 FT IN ADVANCE OF THE MILLING LIMITS.

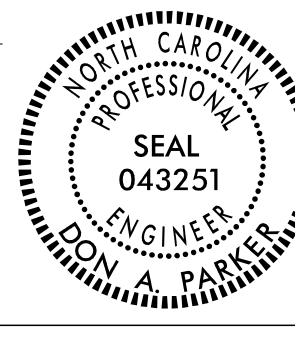
- USING FLAGGERS, PLACE THE FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS THROUGHOUT THE PROJECT LIMITS (SEE PAVEMENT MARKING PLANS).

STEP 2 -- REMOVE ALL TRAFFIC CONTROL DEVICES.

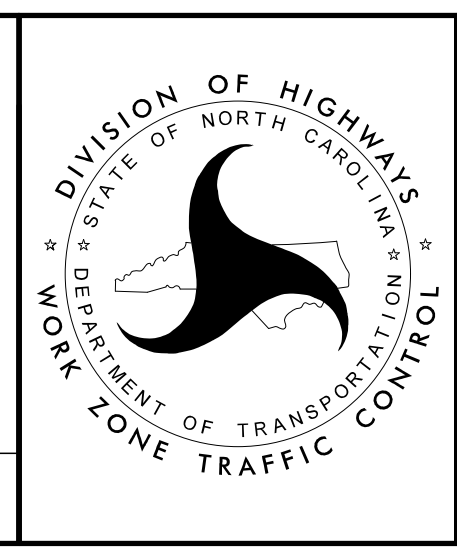
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Signed by: Don A. Parker 750B8E90ADEF440...


DATE: 8/23/2024

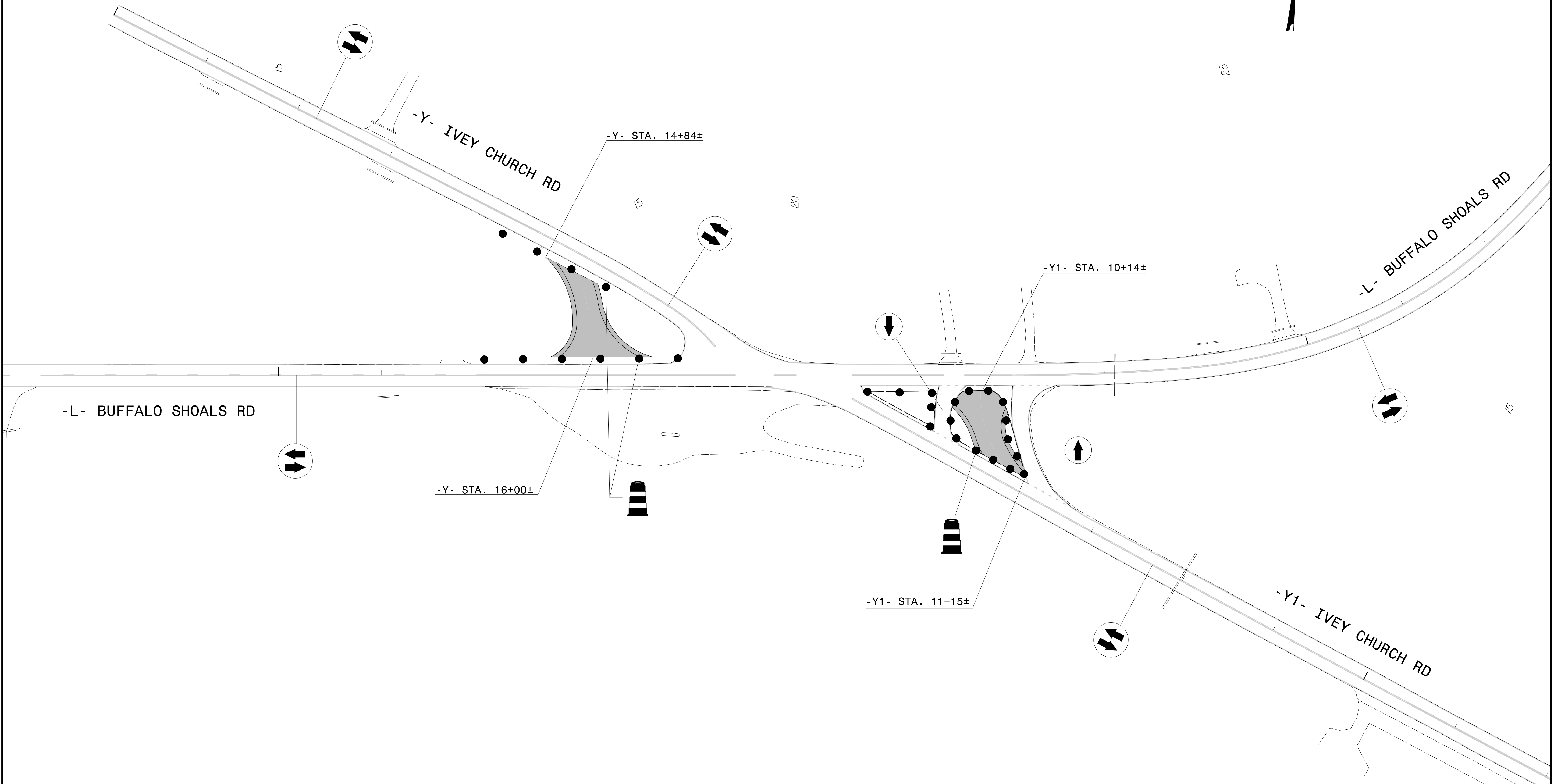
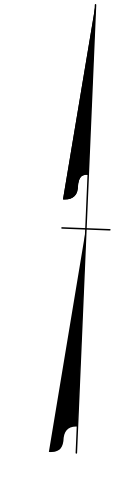


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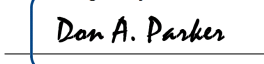


PHASING

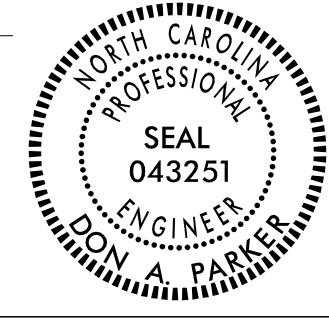
PROJ. REFERENCE NO.	SHEET NO.
W-5712R	TMP-4
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



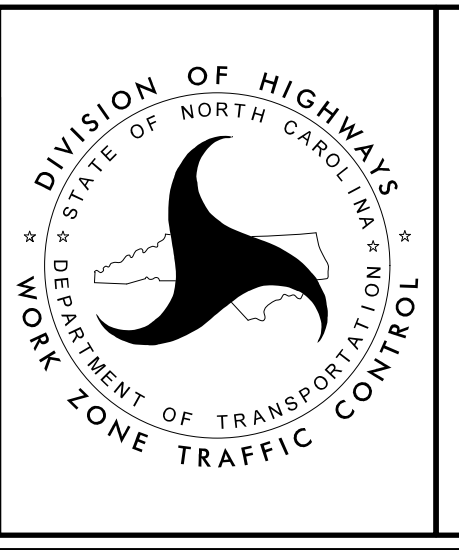
7/24/2024
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 User:cdbrannan

APPROVED: 
75DBE90ADE440...


DATE: 8/23/2024



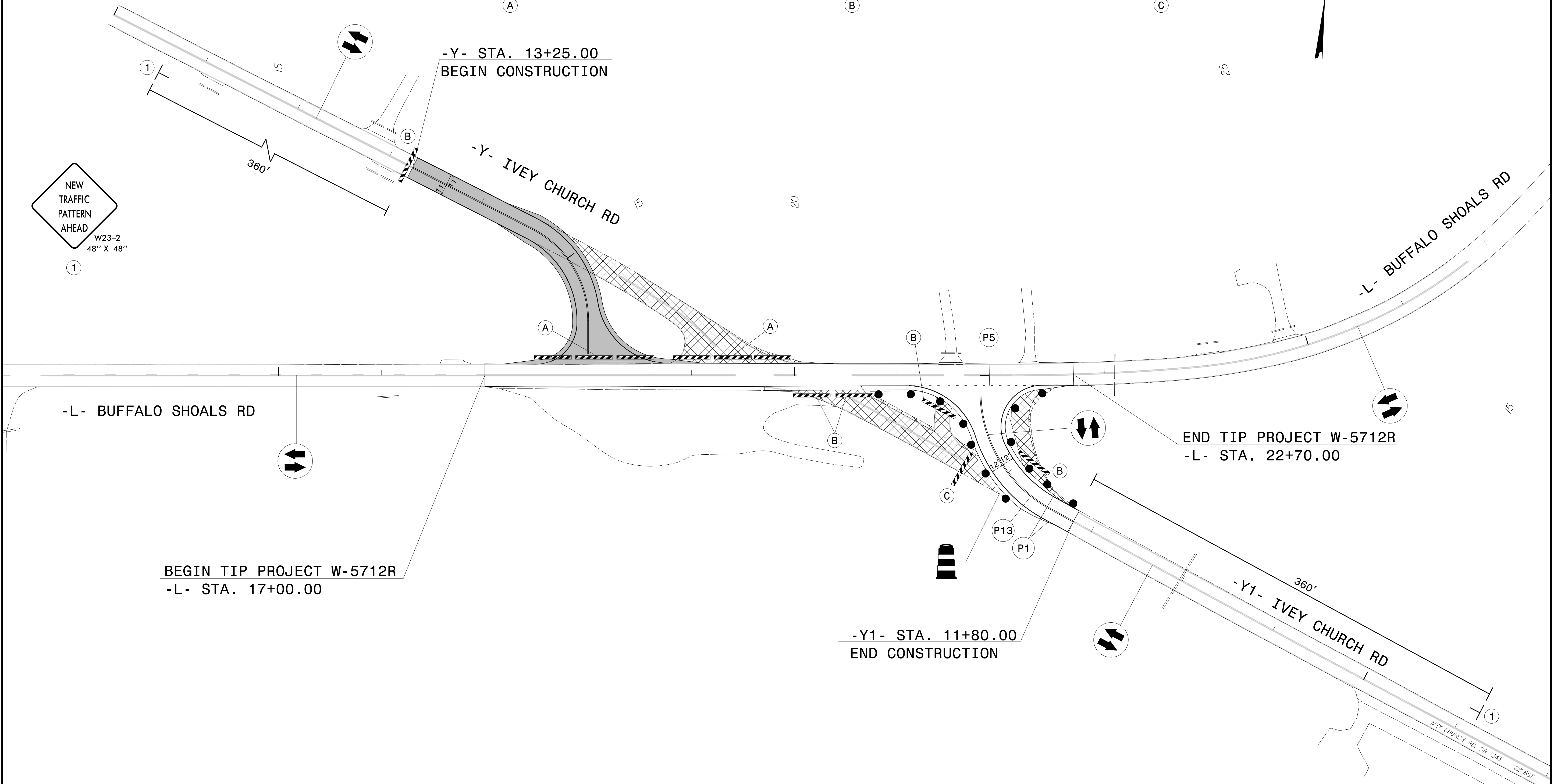
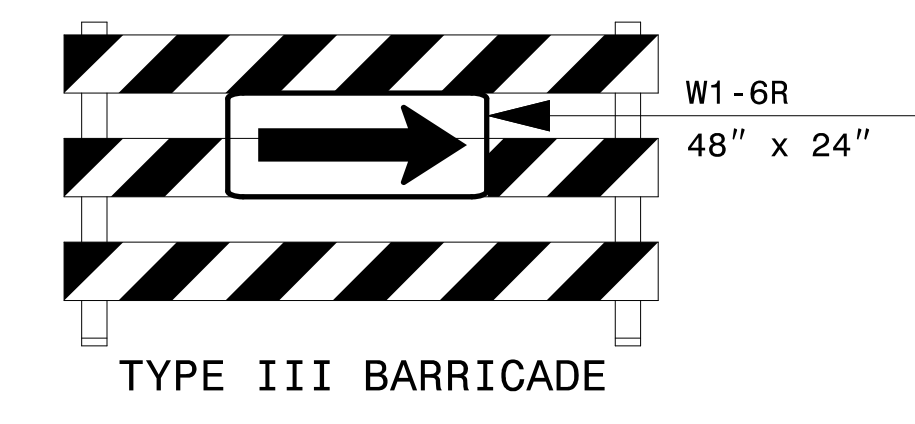
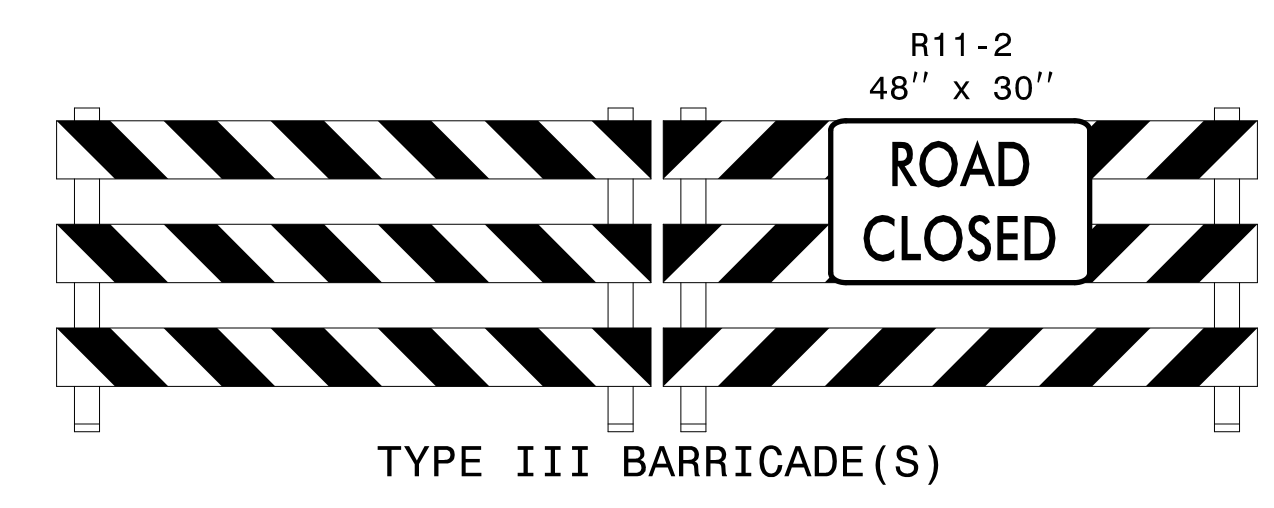
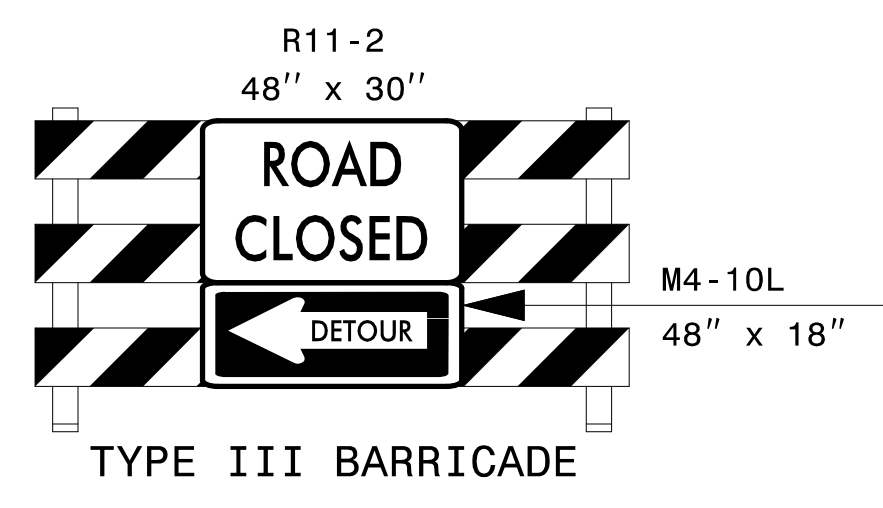
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PHASE I

PROJ. REFERENCE NO.	SHEET NO.
W-5712R	TMP-5
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

NOTE: SEE SHEET TMP-2 FOR DETAIL OF DETOUR ADVANCE WARNING SIGN LOCATION AND LAYOUT.




7/24/2024
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 User: rcdbrannan

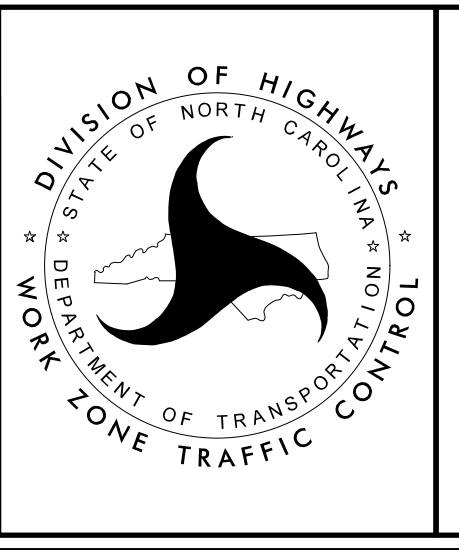
NOTE: COVER OR REMOVE W23-2 SIGNS 30 DAYS AFTER TRAFFIC SHIFT

APPROVED: *Don A. Parker*
7308REBRANDEF440...

DATE: 8/23/2024



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



PHASE II


T.I.P.: W-5712R

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

LINCOLN COUNTY

LOCATION: INTERSECTION IMPROVEMENTS FOR SR 1003 (BUFFALO SHOALS RD)
AT SR 1343 (IVEY CHURCH RD)

TIP NO. W-5712R	SHEET NO. PMP - 1
APPROVED: <i>Don A. Parker</i> 8/27/2024	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE, SCHEDULE SHEET, INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, GENERAL NOTES, AND FINAL PAVEMENT MARKING SCHEDULE
PMP-2	PAVEMENT MARKING DETAIL
PMP-3	REVISED RSD 1250.01 (SHEET 2 OF 3)

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
PAVEMENT MARKINGS	
THERMOPLASTIC (4",90 MILS)	
T1	(4") WHITE EDGLINE
T5	(4") 2 FT.-6 FT./SP WHITE MINISKIP
T13	(4") YELLOW DOUBLE CENTER

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
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING

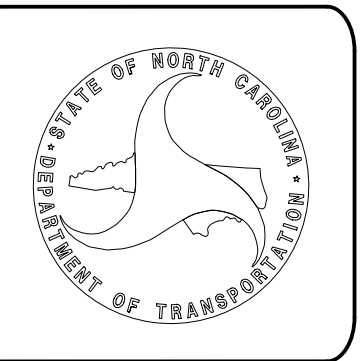
GENERAL NOTES

- 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
IVEY CHURCH RD (SR 1343)	THERMOPLASTIC	POLYCARBONATE H-SHAPED
BUFFALO SHOALS RD (SR 1003)	THERMOPLASTIC	POLYCARBONATE H-SHAPED
 - B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 - D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
 - E) 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.

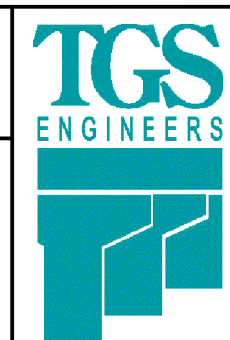
PLAN SUBMITTED TO: NCDOT

BRYAN SOWELL, P.E. DIVISION 12 PROJECT TEAM LEAD





PLAN PREPARED BY: TGS ENGINEERS

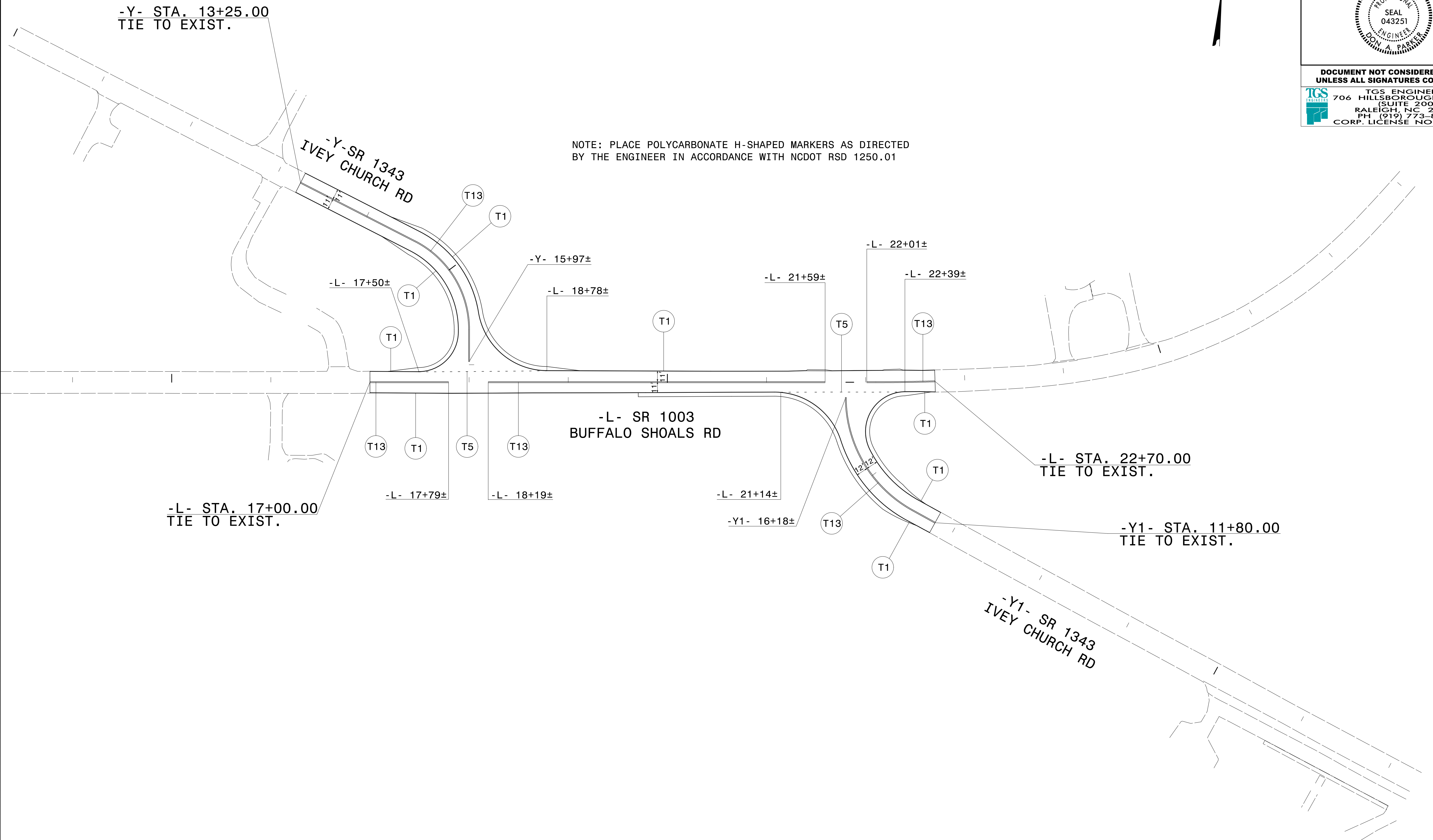
DON A. PARKER, P.E.	PROJECT ENGINEER
CODA BRANNAN, E.I.	DESIGN ENGINEER



TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

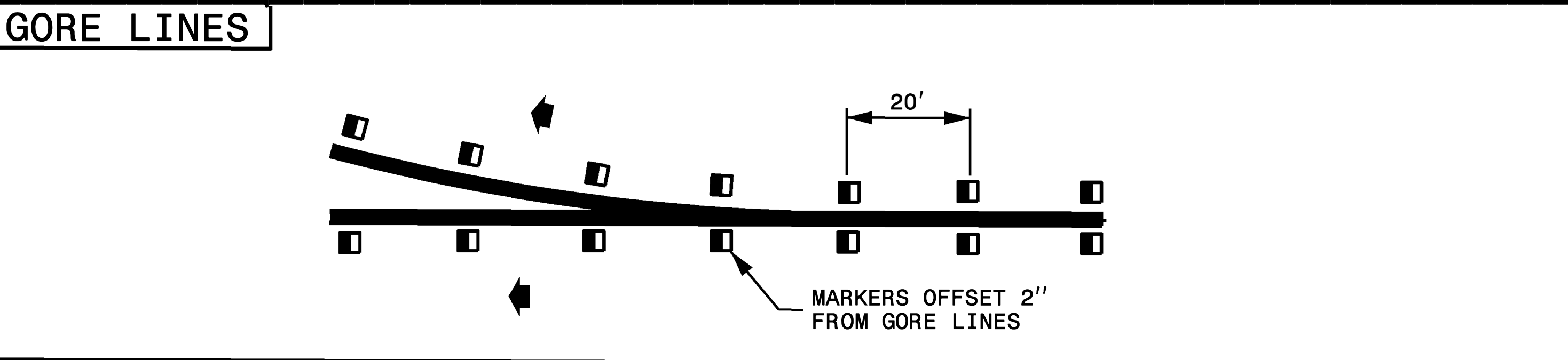
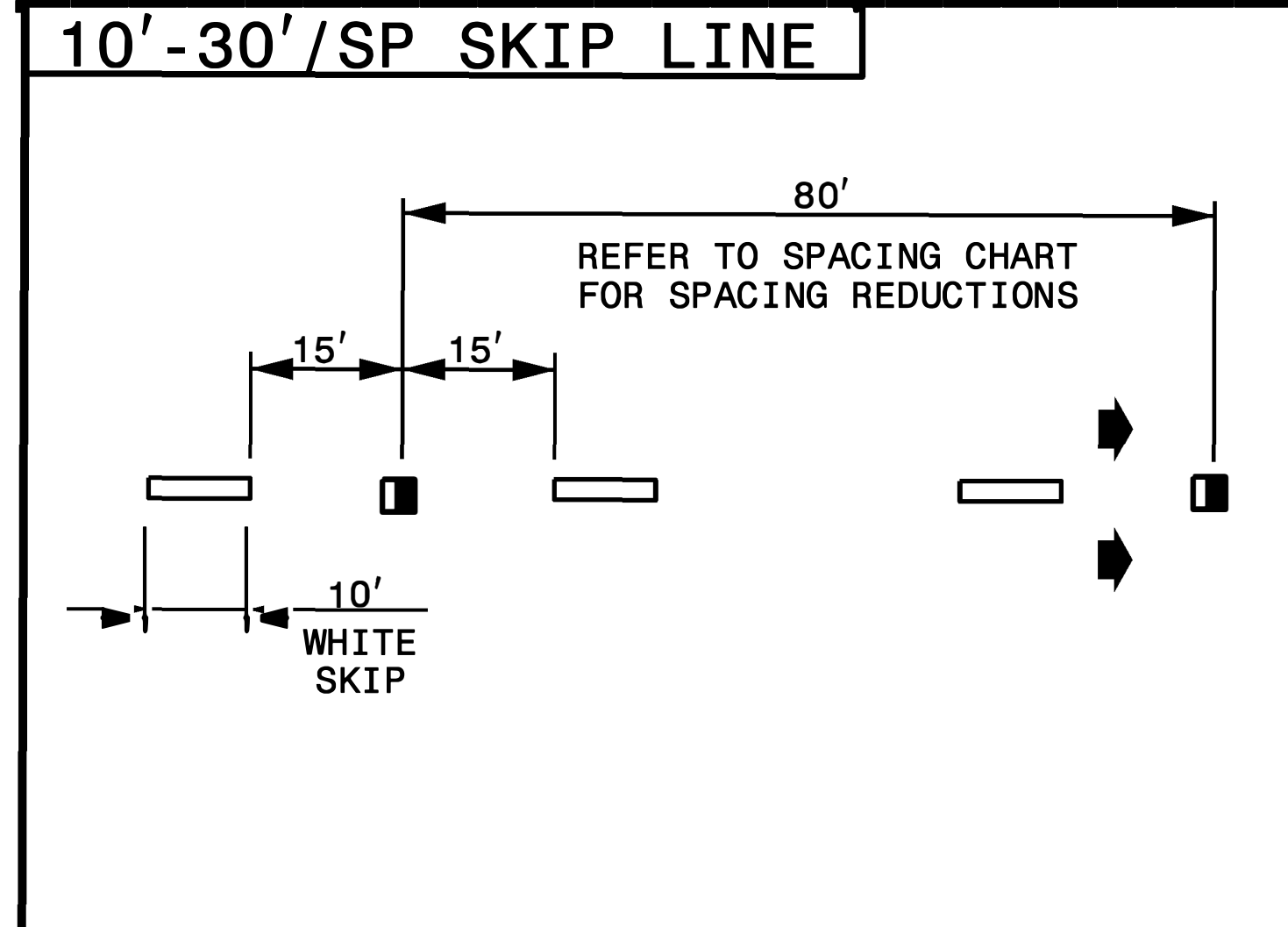
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TIP NO. W-5712R	SHEET NO. PMP-2
APPROVED: <i>Don A. Parker</i> 7508990ADEF440..	
DATE: 8/27/2024	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH STREET (SUITE 200) RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

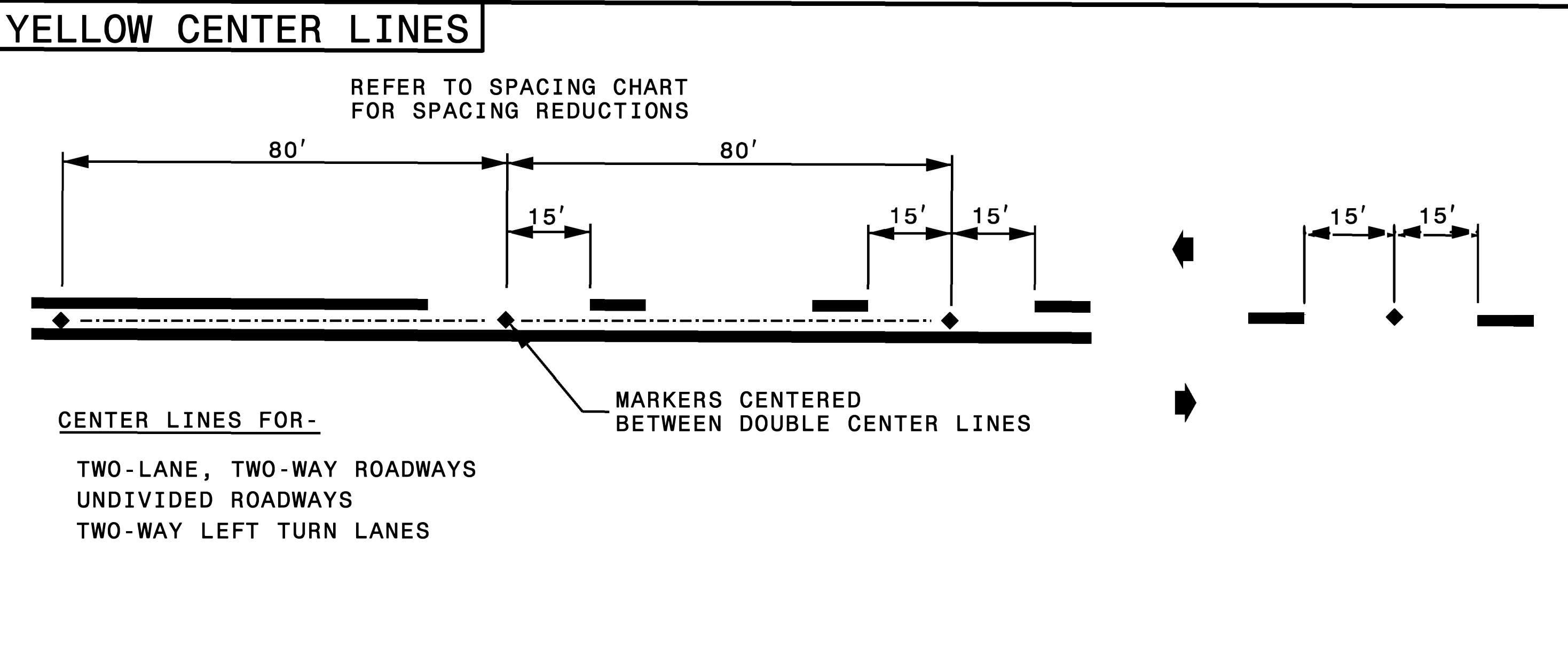
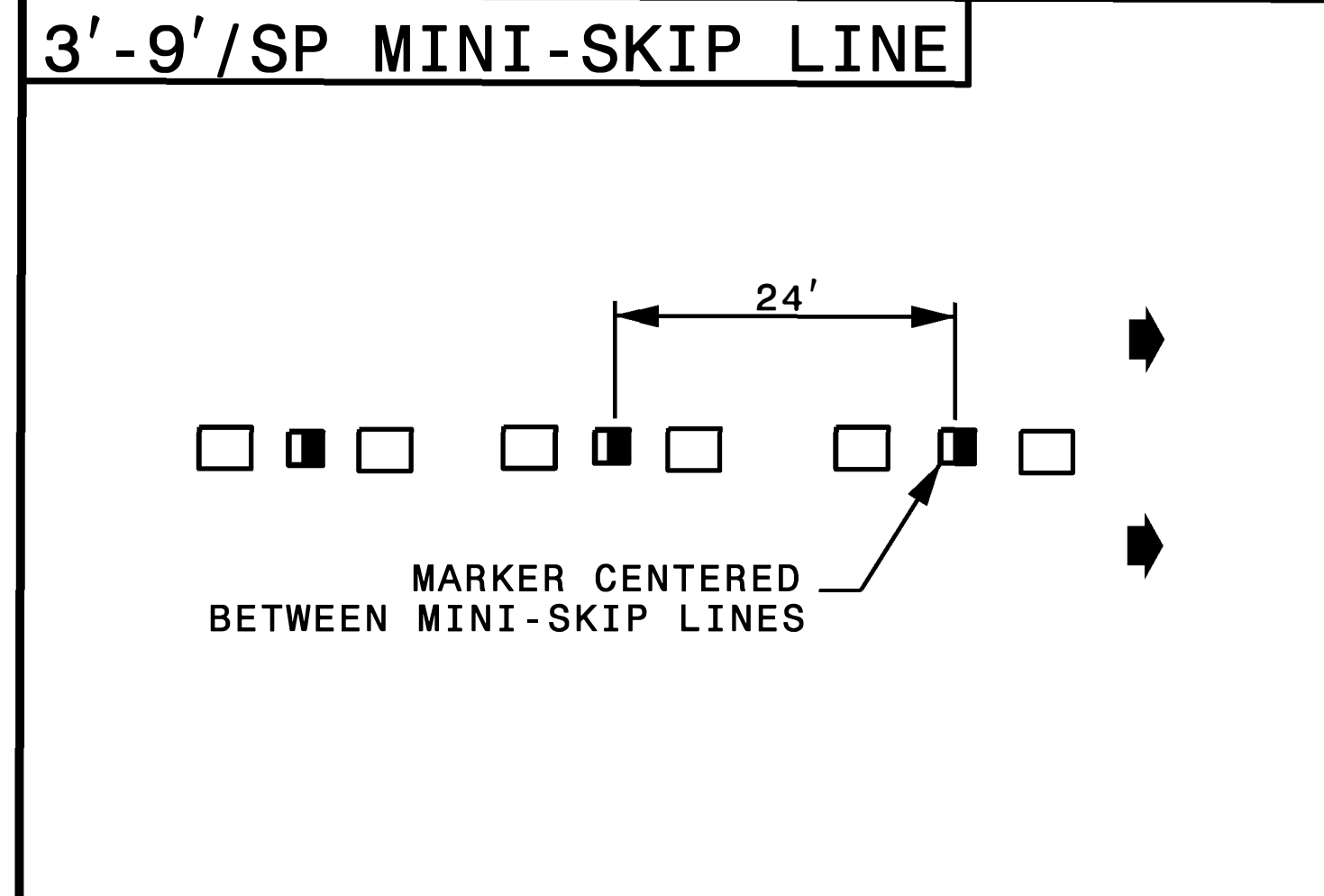


8/27/2024
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User:smelvin

PAVEMENT MARKING DETAIL



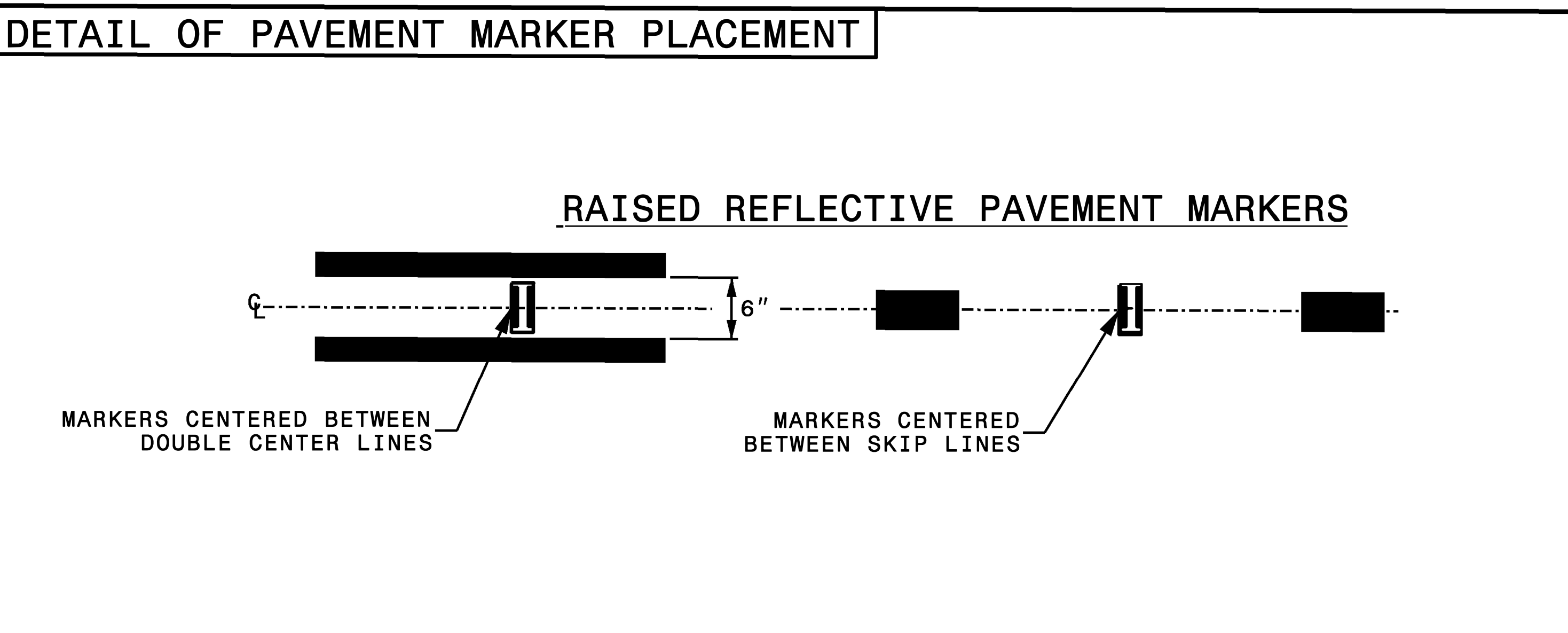
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.



ROADWAY DETAIL DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

LEGEND

- CRYSTAL/RED PAVEMENT MARKER
- ◆ YELLOW/YELLOW PAVEMENT MARKER
- ➔ DIRECTION OF TRAFFIC FLOW



8/28/2024

SHEET 2 OF 3
1250D01

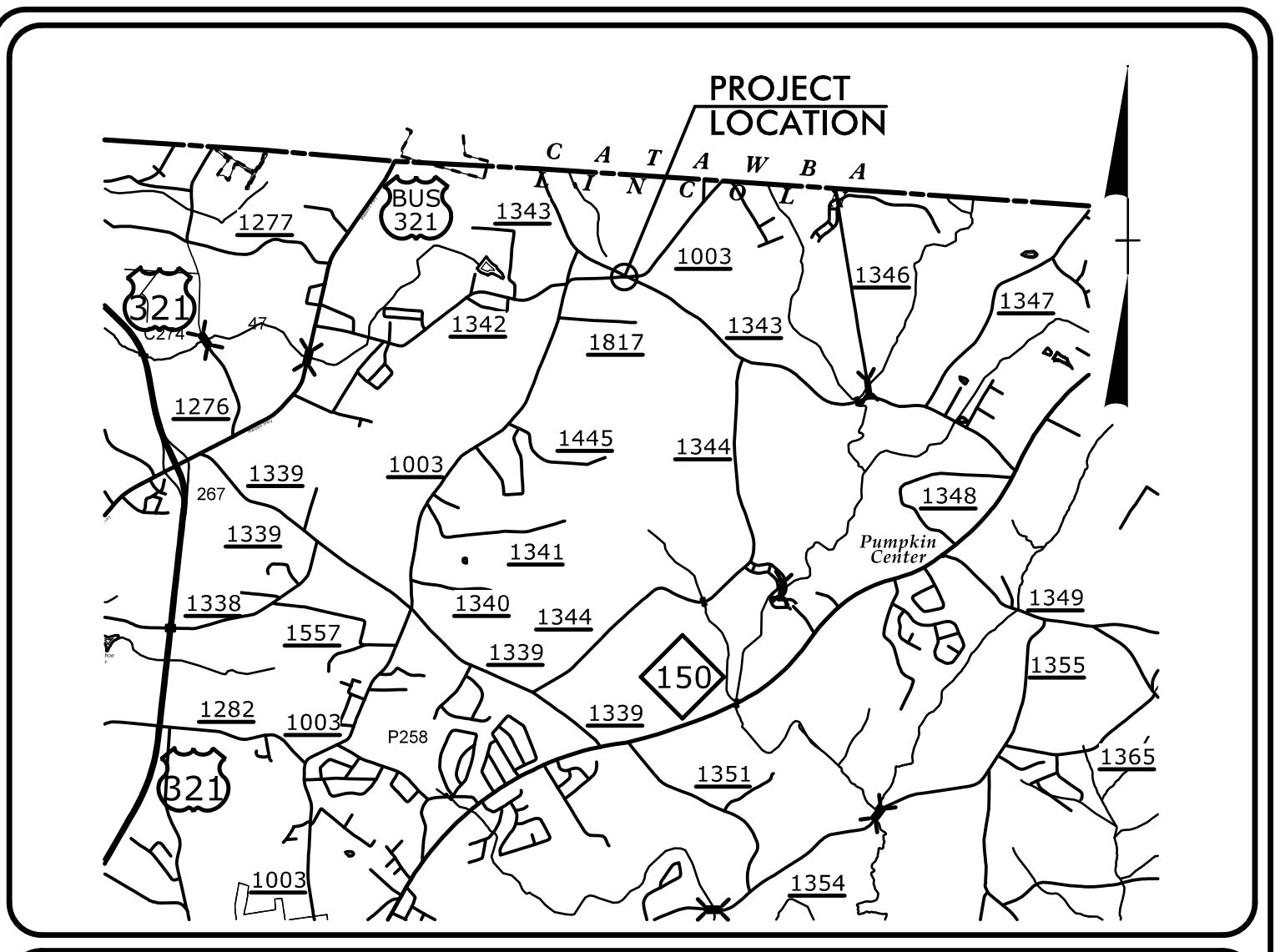
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

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

TIP PROJECT: W-5712R

CONTRACT: DL00337



VICINITY MAP
NOT TO SCALE

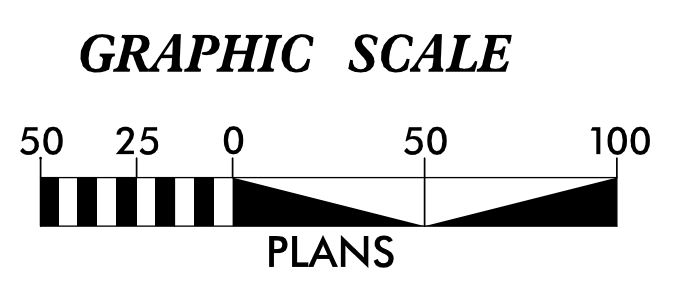
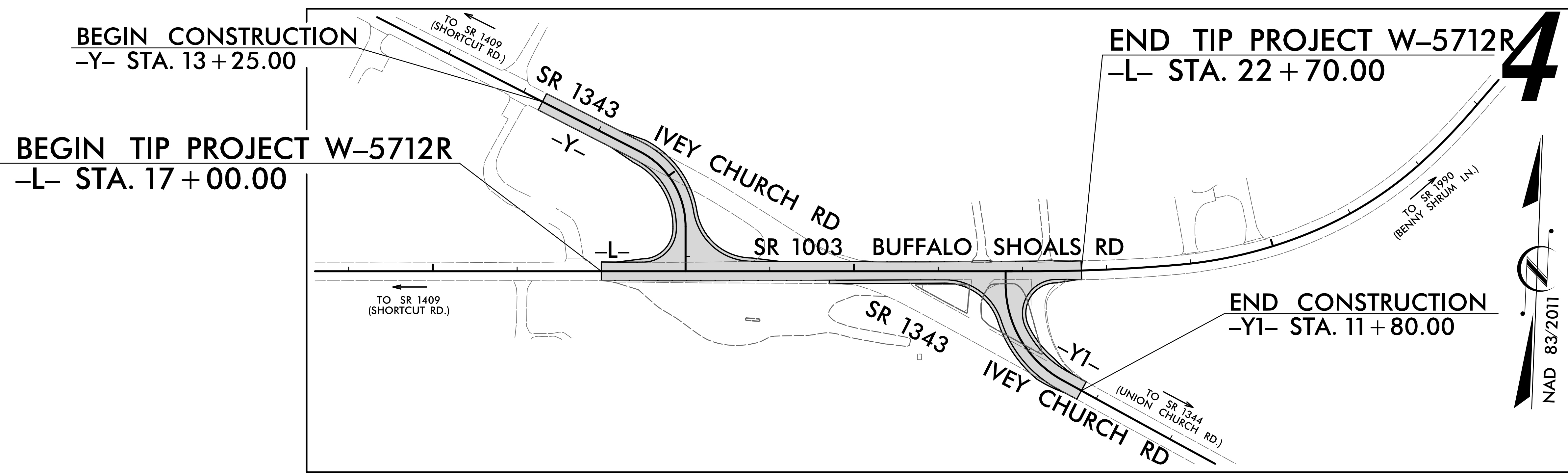
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
 LINCOLN COUNTY

LOCATION: INTERSECTION IMPROVEMENTS FOR SR 1003 (BUFFALO SHOALS RD)
AT SR 1343 (IVEY CHURCH RD)

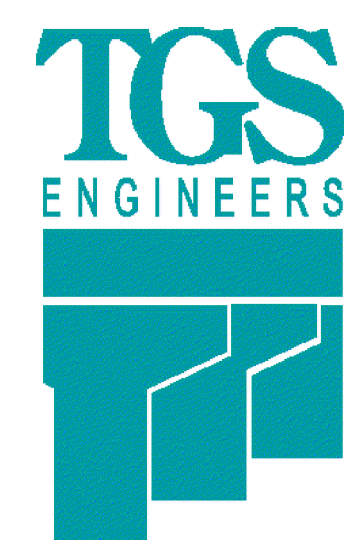
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5712R	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44858.1.18	HSIP-1003(172)	PE	
44858.2.18	HSIP-1003(172)	RW	
44858.2.23	HSIP-1003(172)	UTIL.	
44858.3.18	HSIP-1003(172)	CONST.	

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
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.



Prepared In the Office of:
TGS ENGINEERS
201 W. MARION ST-STE 200
SHELBY, NC 28150

Designed by:
Andrew H. Cochrane, PE 3015
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

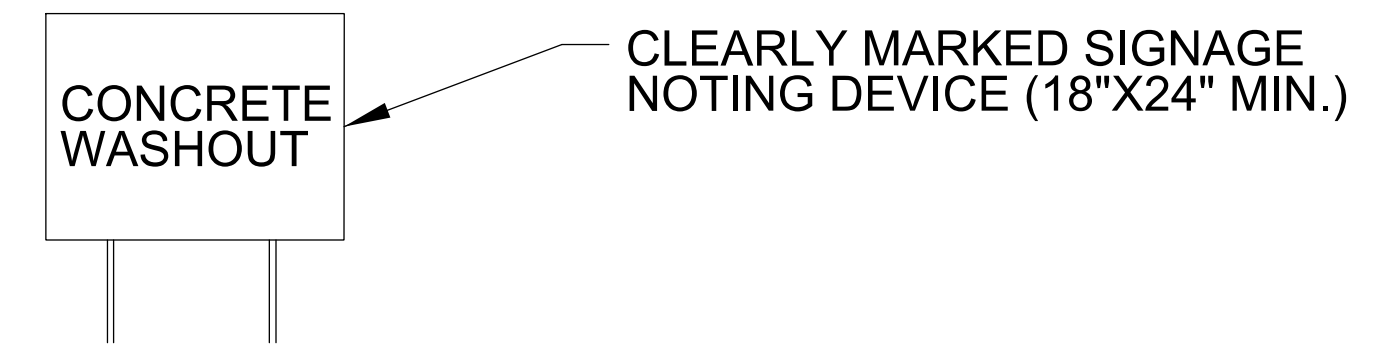
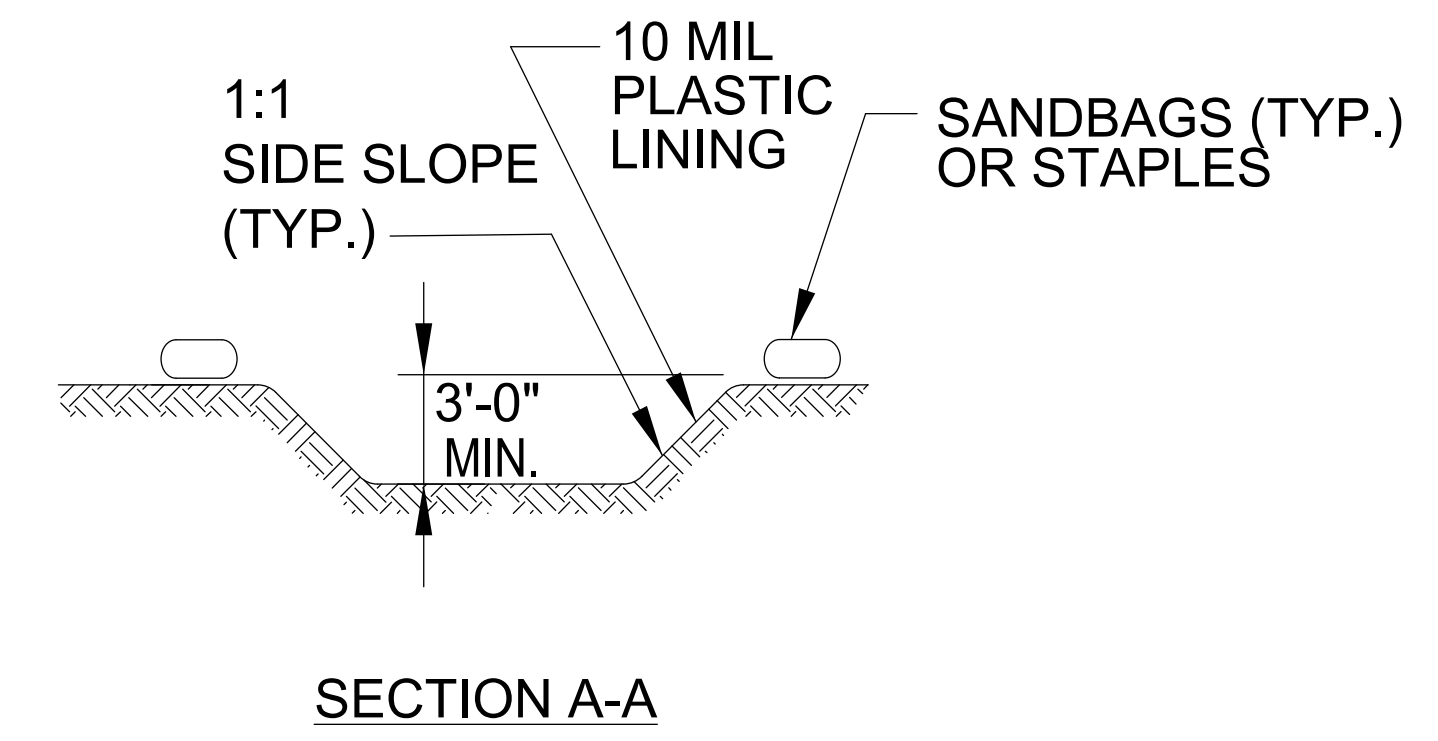
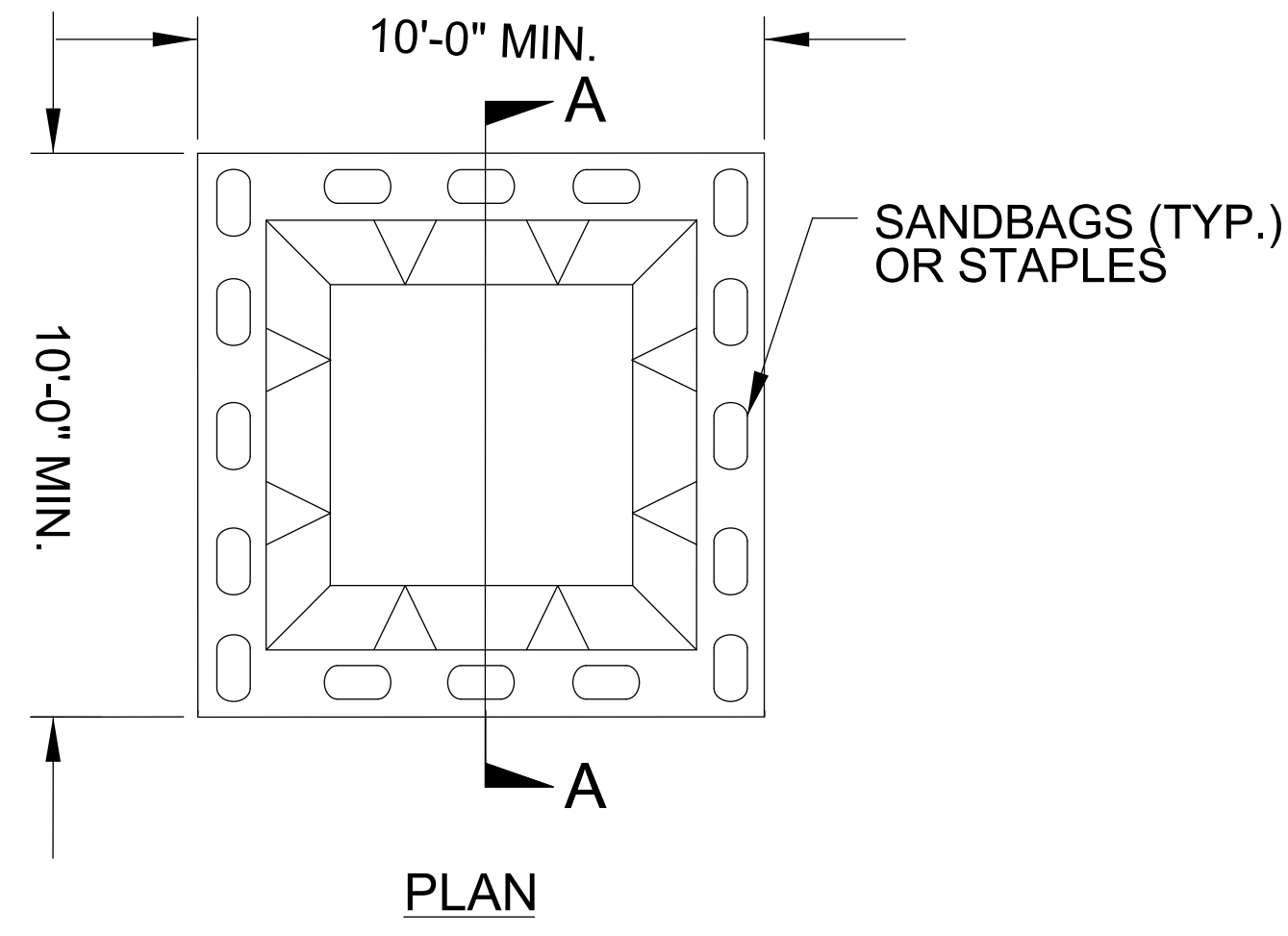
PROJECT REFERENCE NO. W-5712R	SHEET NO. EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

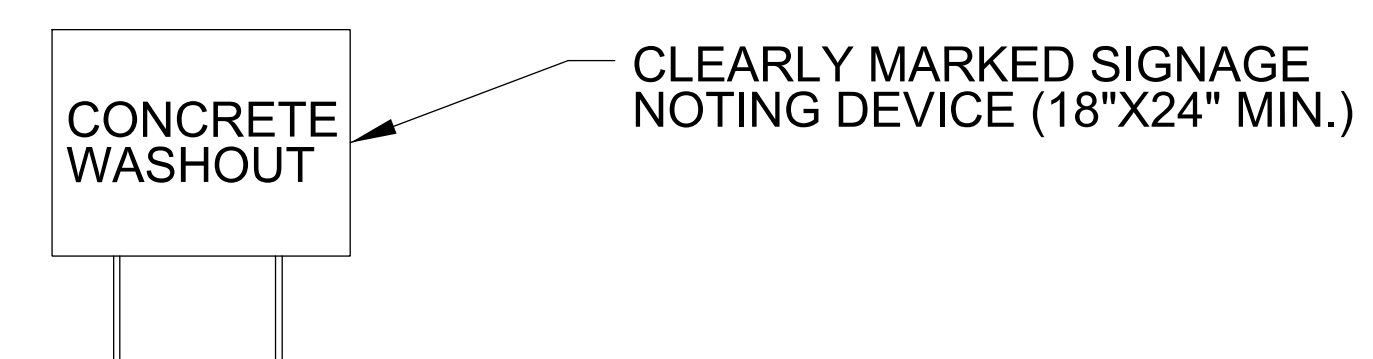
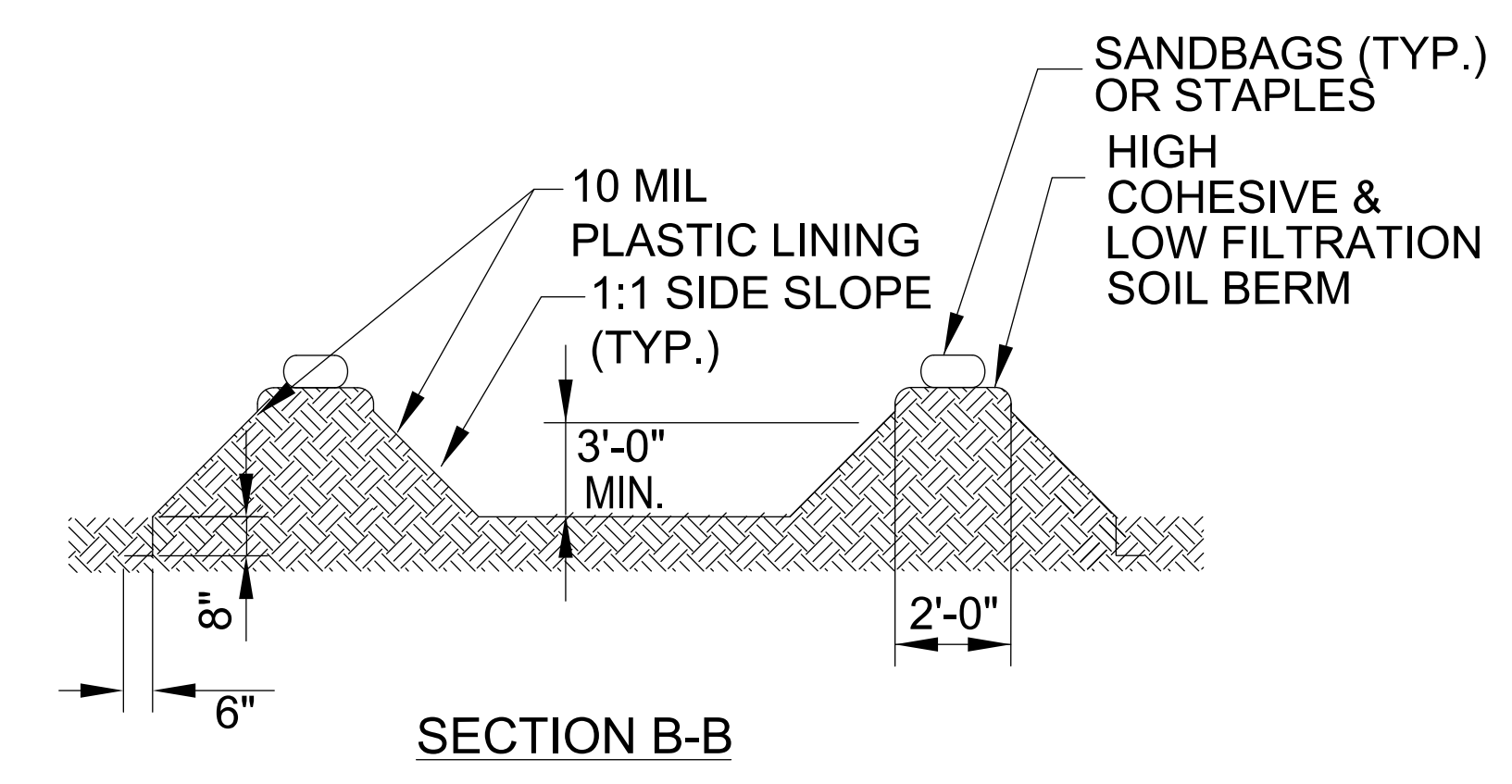
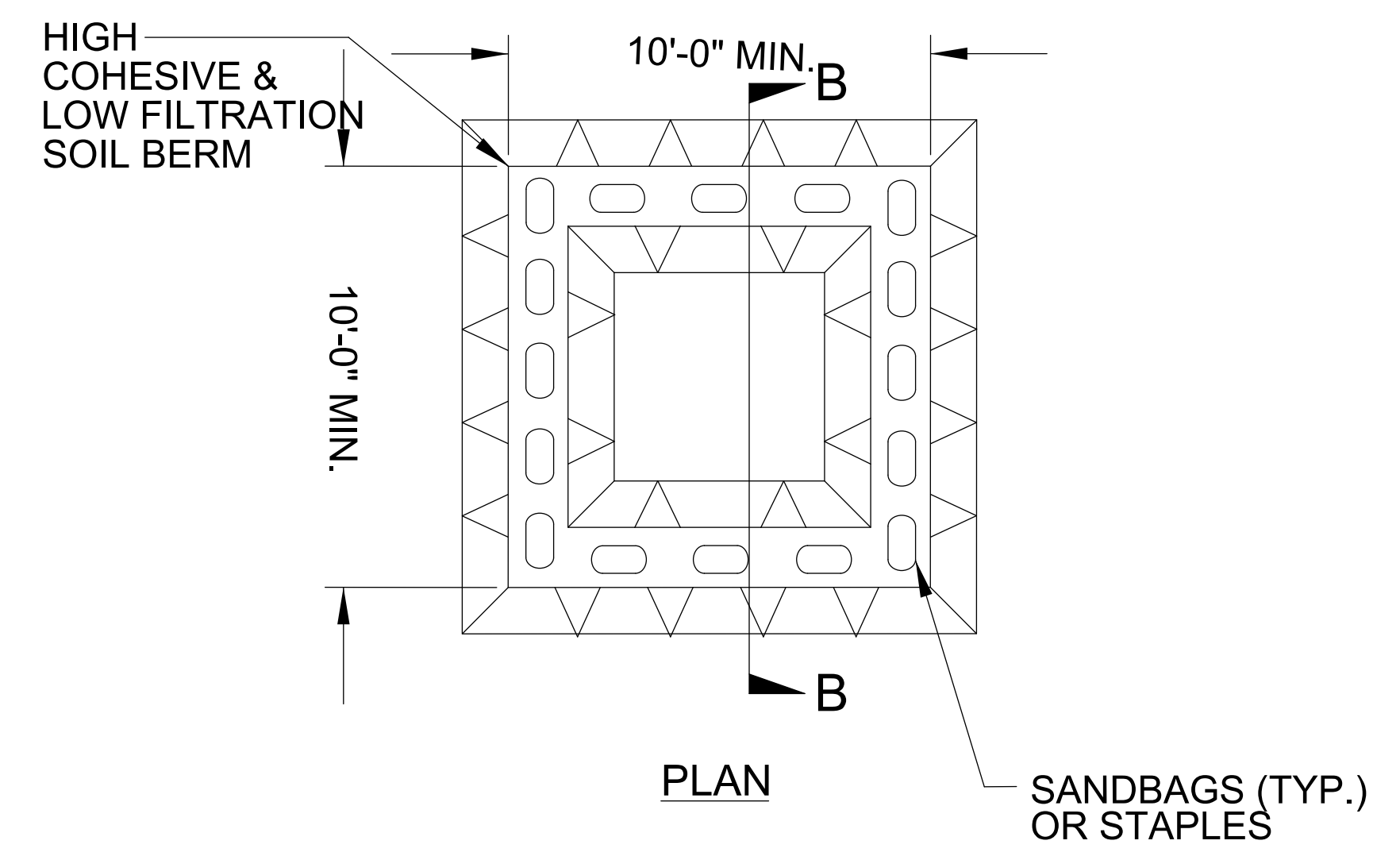
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R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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


- 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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

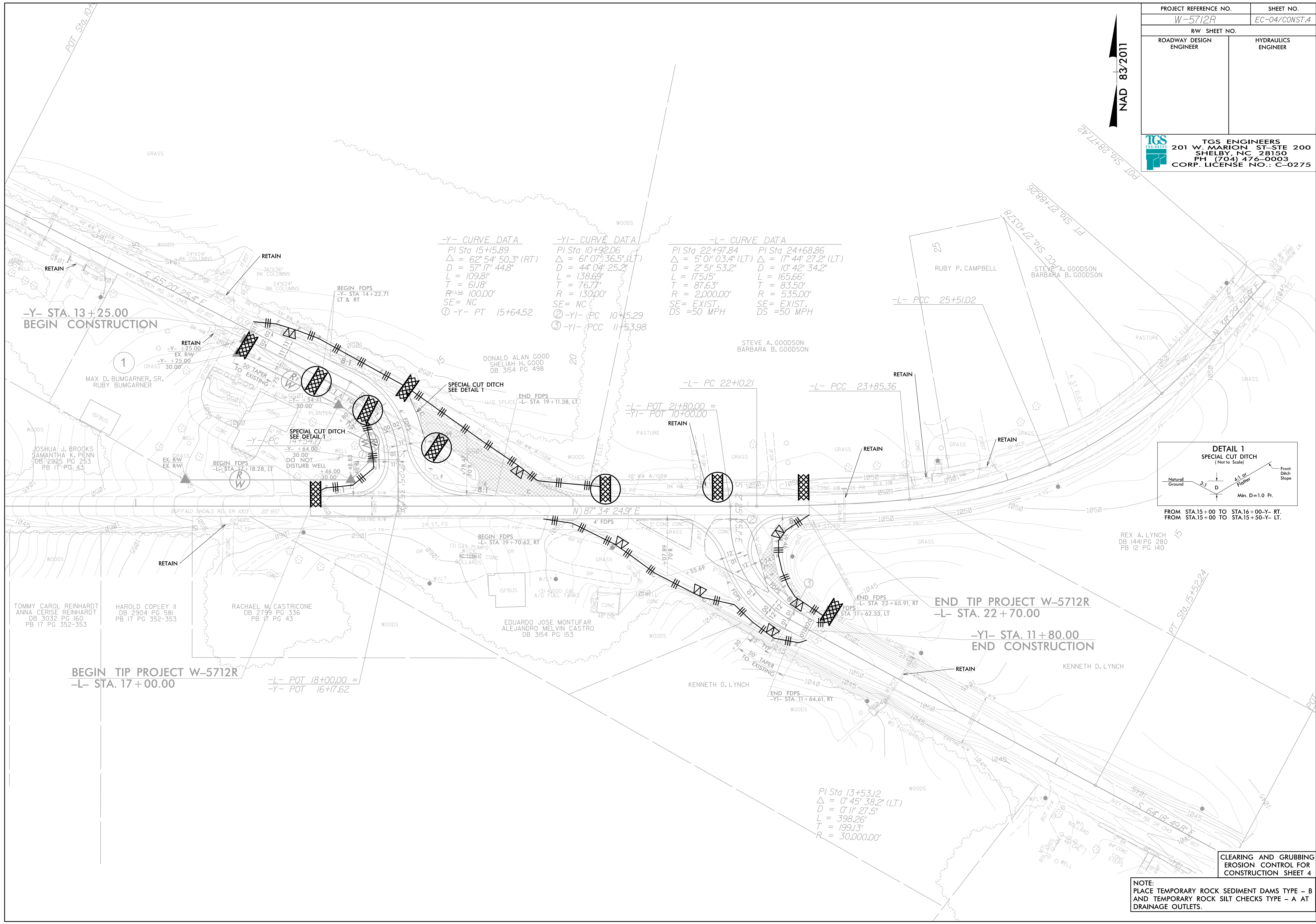
PROJECT REFERENCE NO. <i>W-5712R</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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

PROJECT REFERENCE NO. W-5712R		SHEET NO. EC-04/CONST.4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

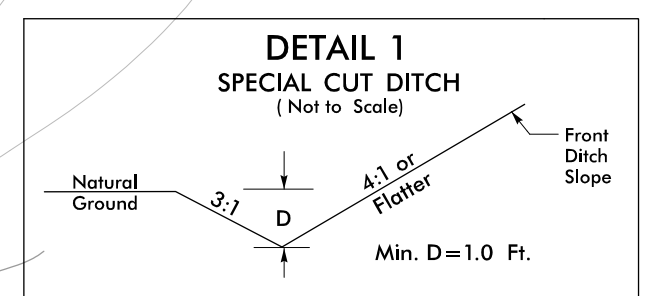
NAD 83/2011



-Y- CURVE DATA
 PI Sta 15+15.89
 $\Delta = 62^\circ 54' 50.3''$ (RT)
 $D = 57' 17'' 44.8''$
 $L = 109.81'$
 $T = 61.8'$
 $R = 100.00'$
 SE= NC
 ① -Y- PT 15+64.52

-YI- CURVE DATA
 PI Sta 10+92.06
 $\Delta = 61^\circ 07' 36.5''$ (LT)
 $D = 44' 04'' 25.2''$
 $L = 138.69'$
 $T = 76.77'$
 $R = 130.00'$
 SE= NC
 ② -YI- PC 10+15.29
 ③ -YI- PCC 11+53.98


-L- CURVE DATA
 PI Sta 22+97.84
 $\Delta = 5^\circ 01' 03.4''$ (LT) $\Delta = 17^\circ 44' 27.2''$ (LT)
 $D = 2' 51'' 53.2''$ $D = 10' 42'' 34.2''$
 $L = 175.15'$ $L = 165.66'$
 $T = 87.63'$ $T = 83.50'$
 $R = 2,000.00'$ $R = 535.00'$
 SE= EXIST. SE= EXIST.
 DS =50 MPH DS =50 MPH



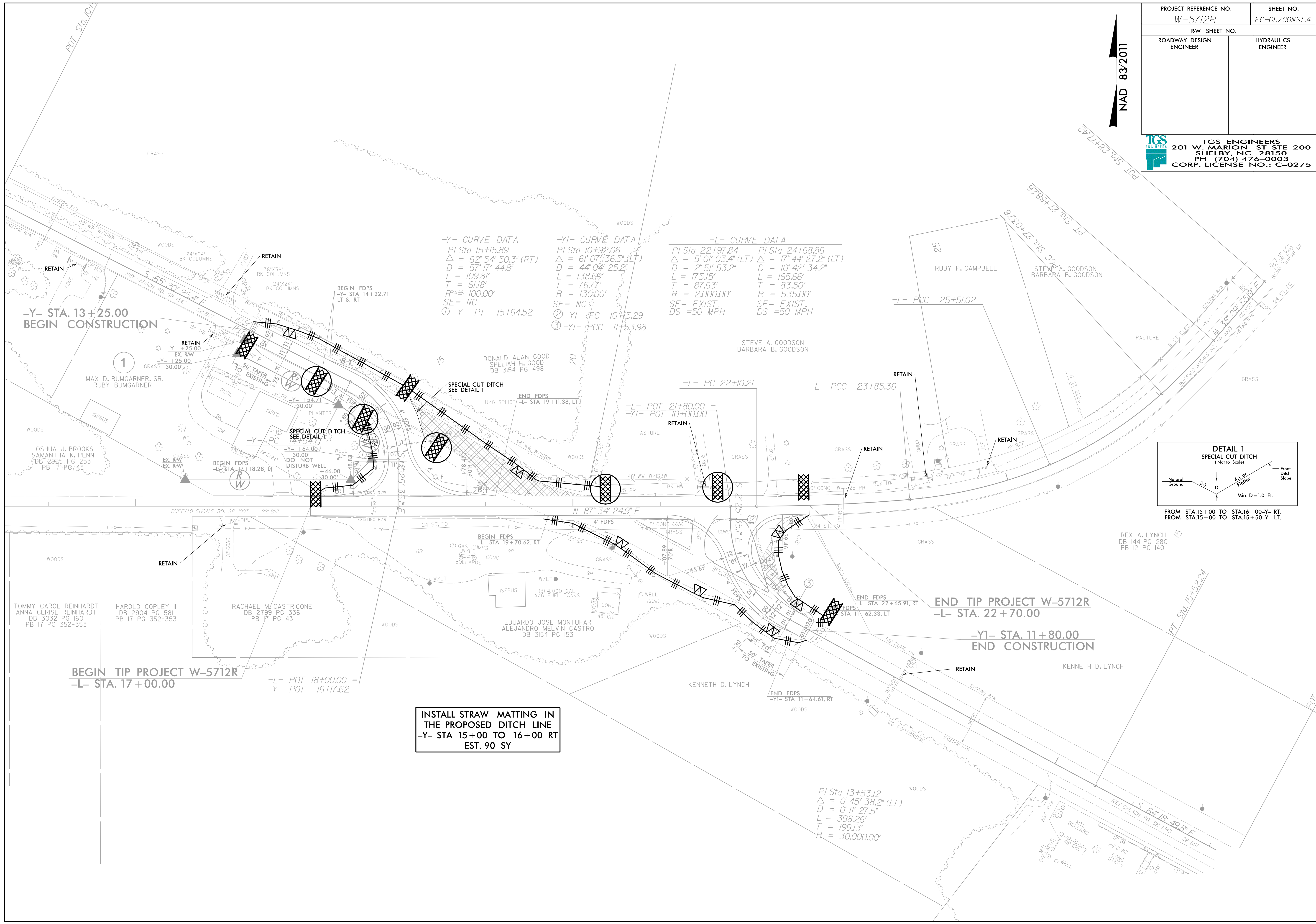
FROM STA.15+00 TO STA.16+00-Y- RT.
 FROM STA.15+00 TO STA.15+50-Y- LT.

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

NOTE:
 CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 4

PROJECT REFERENCE NO. W-5712R		SHEET NO. EC-05/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275			

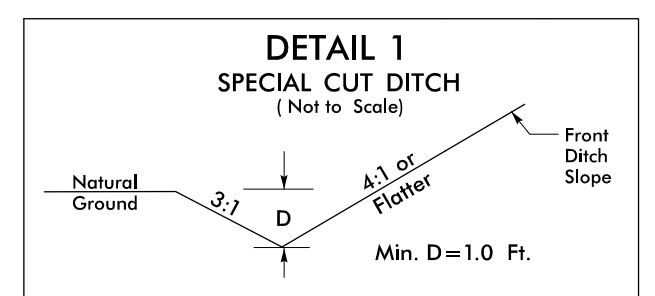
NAD 83/2011



-Y- CURVE DATA
 PI Sta 15+15.89
 $\Delta = 62^\circ 54' 50.3''$ (RT)
 $D = 57' 17'' 44.8''$
 $L = 109.81'$
 $T = 61.8'$
 $R = 100.00'$
 SE= NC
 ① -Y- PT 15+64.52

-YI- CURVE DATA
 PI Sta 10+92.06
 $\Delta = 61^\circ 07' 36.5''$ (LT)
 $D = 44' 04'' 25.2''$
 $L = 138.69'$
 $T = 76.77'$
 $R = 130.00'$
 SE= NC
 ② -YI- PC 10+15.29
 ③ -YI- PCC 11+53.98

-L- CURVE DATA
 PI Sta 22+97.84
 $\Delta = 5^\circ 01' 03.4''$ (LT) $\Delta = 17^\circ 44' 27.2''$ (LT)
 $D = 2' 51'' 53.2''$ $D = 10' 42'' 34.2''$
 $L = 175.15'$ $L = 165.66'$
 $T = 87.63'$ $T = 83.50'$
 $R = 2,000.00'$ $R = 535.00'$
 SE= EXIST. SE= EXIST.
 DS = 50 MPH DS = 50 MPH



FROM STA.15+00 TO STA.16+00-Y- RT.
 FROM STA.15+00 TO STA.15+50-Y- LT.

**INSTALL STRAW MATTING IN THE PROPOSED DITCH LINE
 -Y- STA 15+00 TO 16+00 RT
 EST. 90 SY**

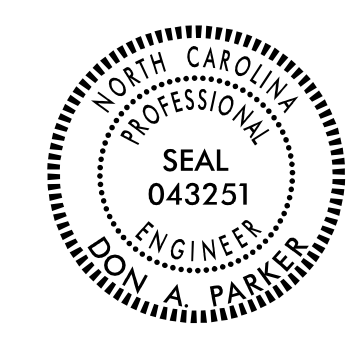
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 $D = 0' 11'' 27.5''$
 $L = 398.26'$
 $T = 199.13'$
 $R = 30,000.00'$

T.I.P.: W-5712R

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SIGNING PLAN LINCOLN COUNTY

**LOCATION: INTERSECTION IMPROVEMENTS FOR SR 1003 (BUFFALO SHOALS RD)
AT SR 1343 (IVEY CHURCH RD)**

TIP NO. W-5712R	SHEET NO. SIGN-1
APPROVED: <u>Don A. Parker</u> <small>750B869ADEF440...</small>	
DATE: 8/23/2024	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 POSTS

GENERAL NOTES

- SIGNS FURNISHED BY STATE
- CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- 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.

SUMMARY OF QUANTITIES

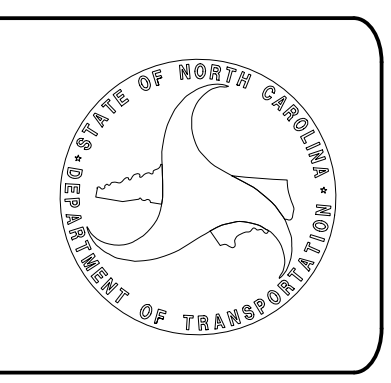
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	91	L.F.
4102000000	904	SIGN ERECTION, TYPE E	10	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	15	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE E SHEET
SIGN-3-4	SIGN DETAIL SHEETS

PLAN SUBMITTED TO: NCDOT

BRYAN SOWELL, P.E. DIVISION 12 PROJECT TEAM LEAD



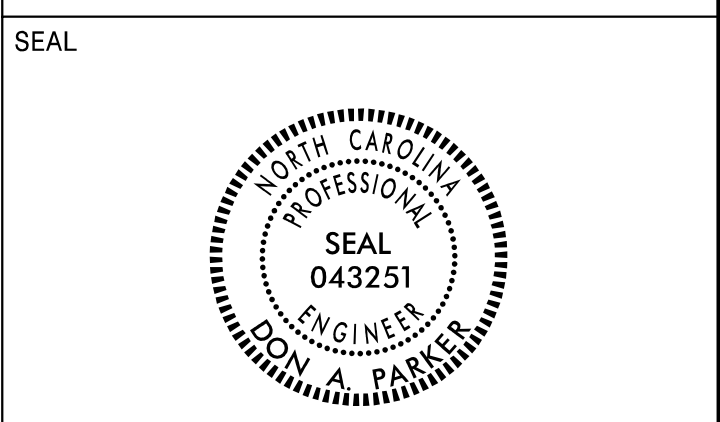
PLAN PREPARED BY: TGS ENGINEERS

DON A. PARKER, P.E. PROJECT ENGINEER
CODA BRANNAN, E.I. DESIGN ENGINEER



TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

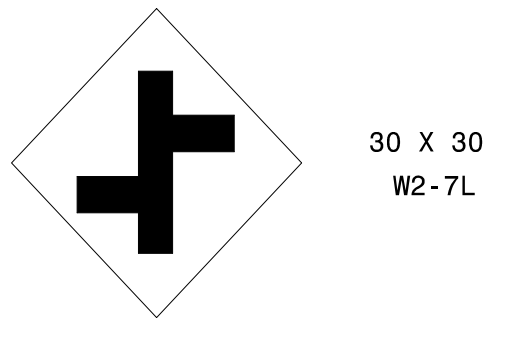
APPROVED: *Don A. Parker*
7509890ADE440
 DATE: 8/23/2024



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

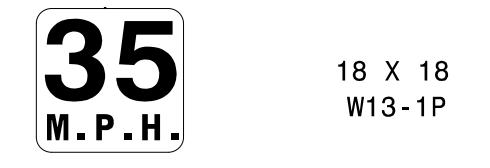
TGS ENGINEERS
 706 HILLSBOROUGH STREET
 (SUITE 200)
 RALEIGH, NC 27603
 PH: (919) 773-8887
 CORP. LICENSE NO.: C-0275

400 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

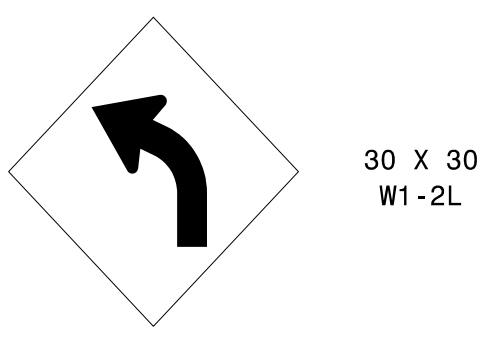
401 QUANTITY REQ'D 3



MOUNTED BELOW SIGN 400
IN 2 INSTALLATIONS

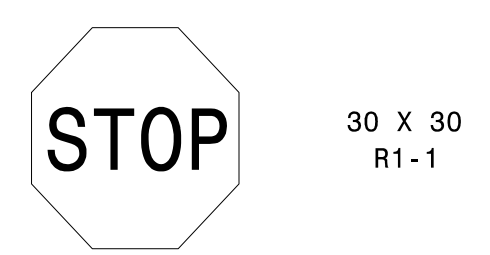
MOUNTED BELOW SIGN 402
IN 1 INSTALLATION

402 QUANTITY REQ'D 1



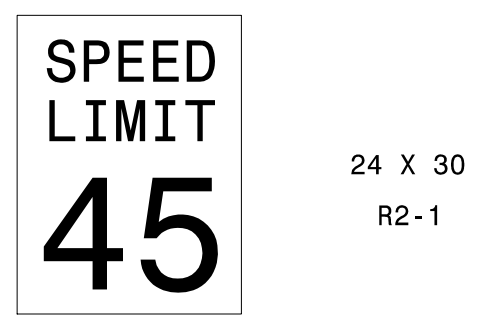
ONE "U" POST PER SIGN

403 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

404 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

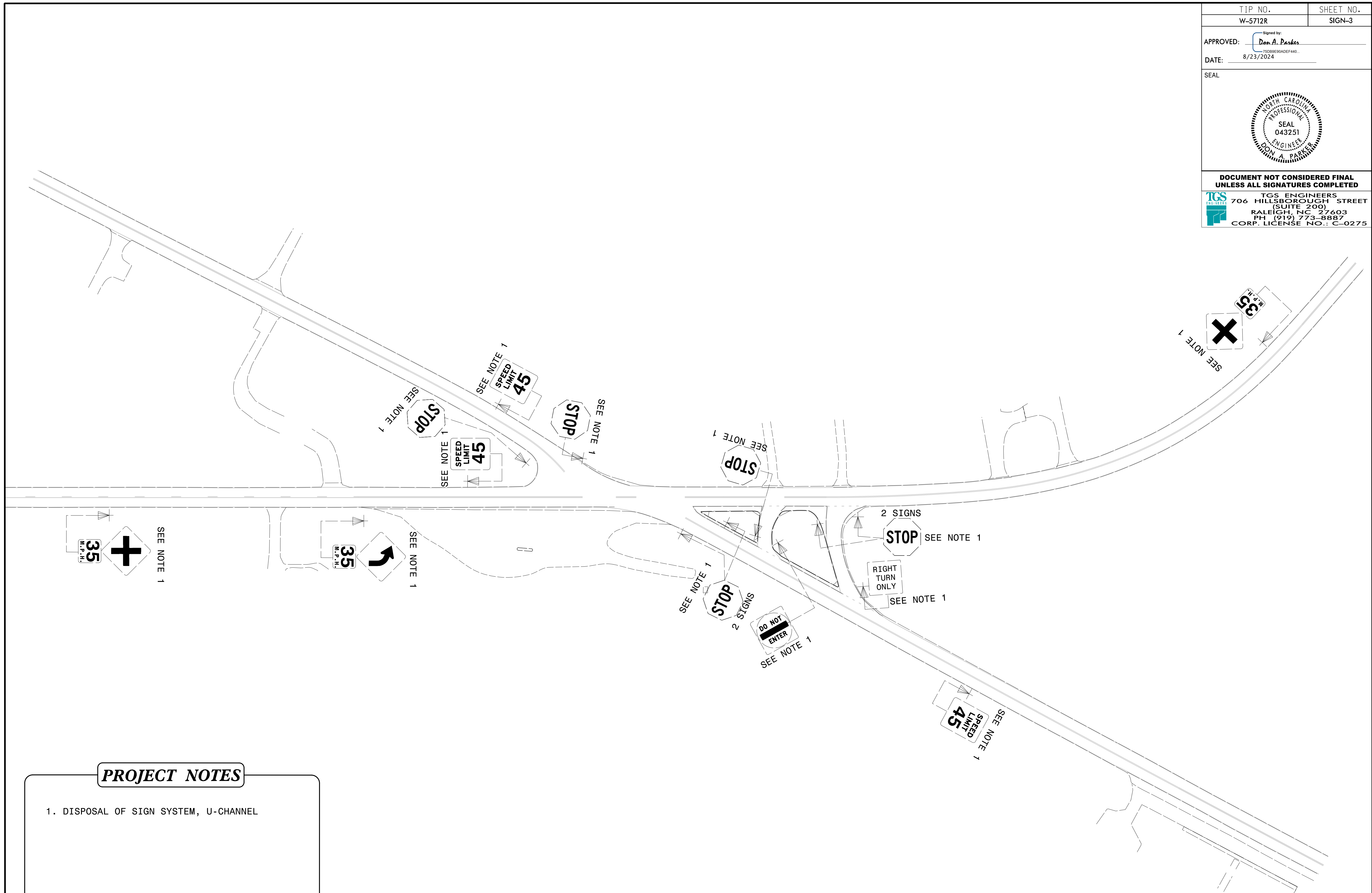
TYPE "E" SIGNS

7/29/2024
 X:\NC001\W-5712R\Trefire\Signing\CADD\Signing Layout Plans\W-5712R_Sgn_SGN_02_TypeE.dgn
 User:tcbrannen



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

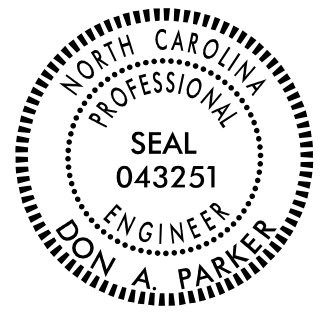

TGS ENGINEERS
 706 HILLSBOROUGH STREET
 (SUITE 200)
 RALEIGH, NC 27603
 PH: (919) 773-8887
 CORP. LICENSE NO.: C-0275

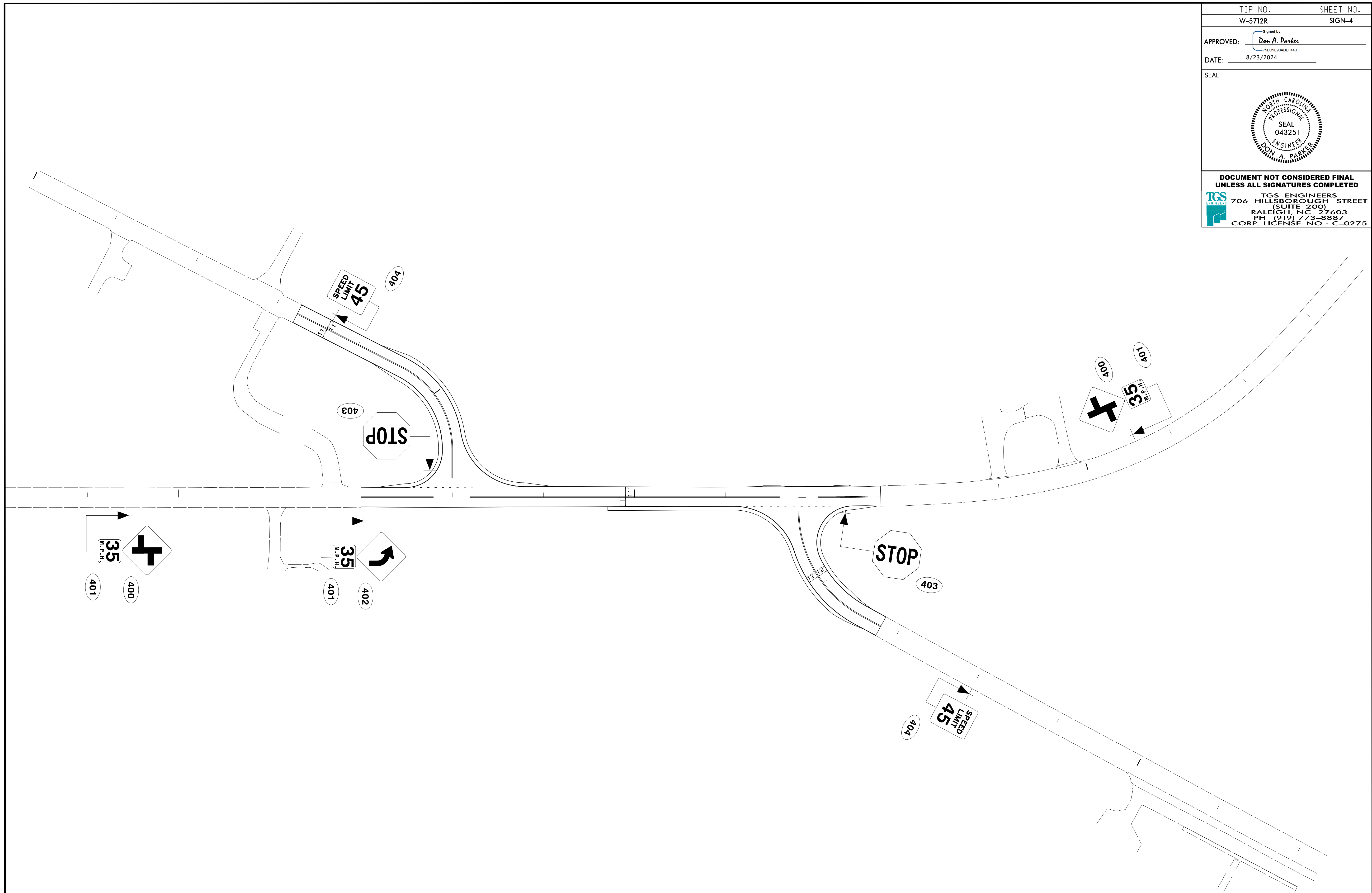


PROJECT NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL

EXISTING SIGNS

TIP NO. W-5712R	SHEET NO. SIGN-4
APPROVED: <i>Don A. Parker</i> <small>7509890ADE440</small>	
DATE: 8/23/2024	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 706 HILLSBOROUGH STREET (SUITE 200) RALEIGH, NC 27603 PH: (919) 773-8887 CORP. LICENSE NO.: C-0275	



PROPOSED SIGNS

7/29/2024
X:\NC001\W-5712R\T-r-ef-fic\Signing\CADD\Signing Layout Plans\W-5712R_Sgn_SGN_04.dgn
User: smelvr

PROJECT REFERENCE NO.	SHEET NO.
W-5712R	X-1
RW SHEET NO.	

W-5712R CROSS-SECTION INDEX

XS-INDEX	X-1
CROSS SECTION SUMMARY	X-1A
-L-	X-2 THRU X-4
-Y-	X-5 THRU X-6
-Y1-	X-7 THRU X-8

REVISIONS

8/17/99

7/26/2024
X:\CADD\W-5712R\Roadway\XSC\W-5712R_Rdwy.xpl Index.dgn
lceustme\ltp

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

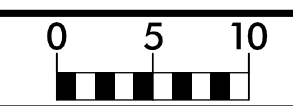
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

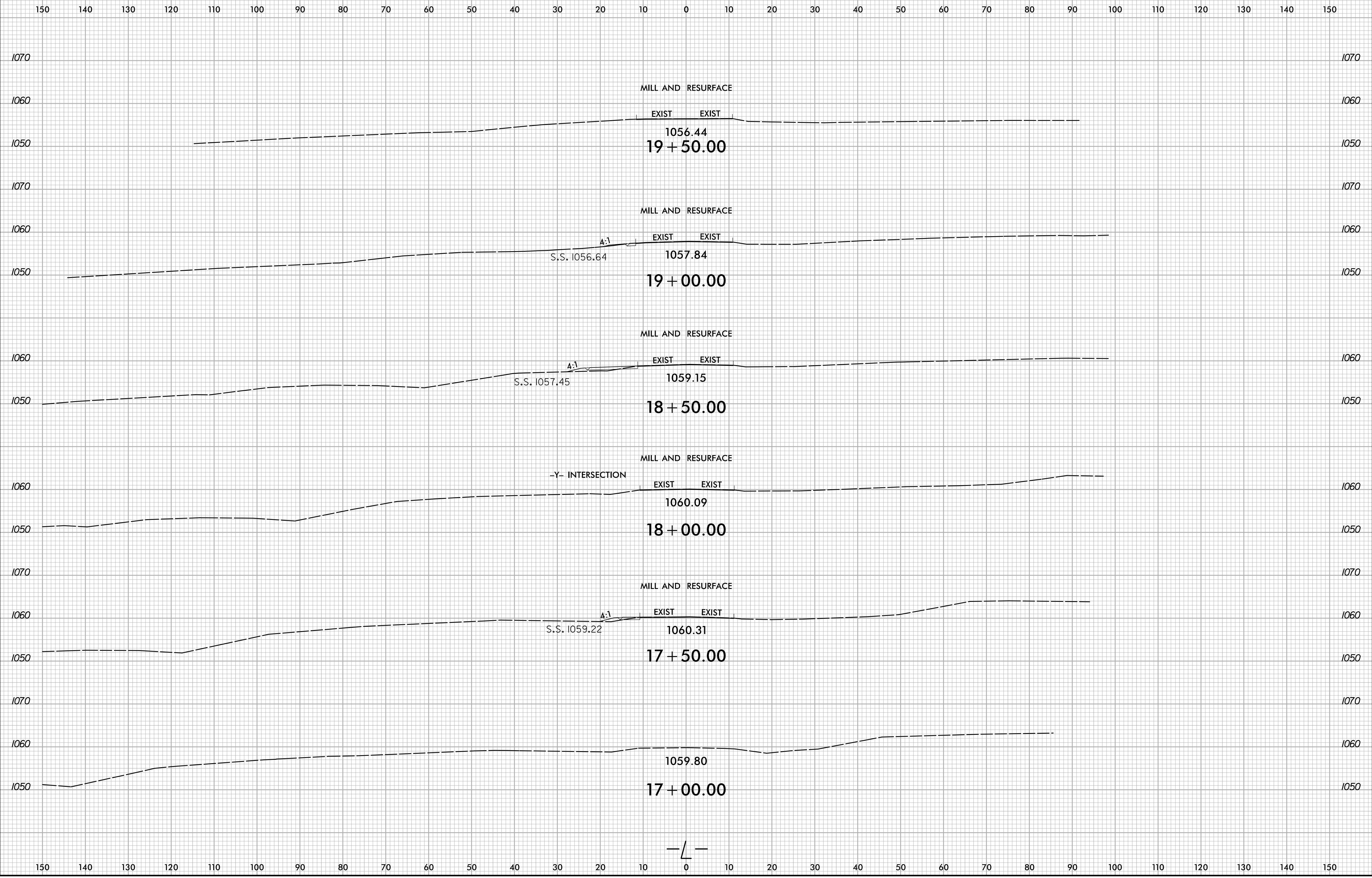
Station	Uncl. Exc.	Embt	Station	Uncl. Exc.	Embt														
L, LT	(cu. yd.)	(cu. yd.)	Y1	(cu. yd.)	(cu. yd.)														
17+00.00	0	0	11+80.00	0	0														
17+50.00	1	2																	
Station	Uncl. Exc.	Embt																	
L, LT	(cu. yd.)	(cu. yd.)																	
18+78.47	0	0																	
19+00.00	1	1																	
19+11.38	0	0																	
Station	Uncl. Exc.	Embt																	
L, RT	(cu. yd.)	(cu. yd.)																	
19+70.62	0	0																	
20+00.00	1	0																	
20+50.00	10	0																	
21+00.00	55	0																	
21+07.89	15	0																	
Station	Uncl. Exc.	Embt																	
L,RT	(cu. yd.)	(cu. yd.)																	
22+39.46	0	0																	
22+50.00	1	1																	
22+65.91	1	0																	
Station	Uncl. Exc.	Embt																	
Y	(cu. yd.)	(cu. yd.)																	
13+25.00	0	0																	
13+50.00	1	1																	
13+75.00	1	3																	
14+00.00	0	6																	
14+25.00	0	13																	
14+50.00	0	26																	
14+75.00	0	46																	
15+00.00	0	69																	
15+25.00	3	87																	
15+50.00	5	66																	
15+75.00	7	23																	
16+06.87	13	11																	
Station	Uncl. Exc.	Embt																	
Y1	(cu. yd.)	(cu. yd.)																	
10+09.96	0	0																	
10+25.00	52	0																	
10+50.00	93	0																	
10+75.00	64	0																	
11+00.00	18	1																	
11+25.00	5	2																	
11+50.00	2	4																	
11+75.00	2	2																	

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

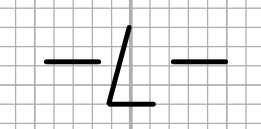
6/23/16



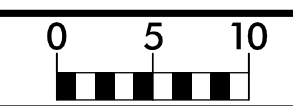
PROJ. REFERENCE NO.	SHEET NO.
W-5712R	X-2



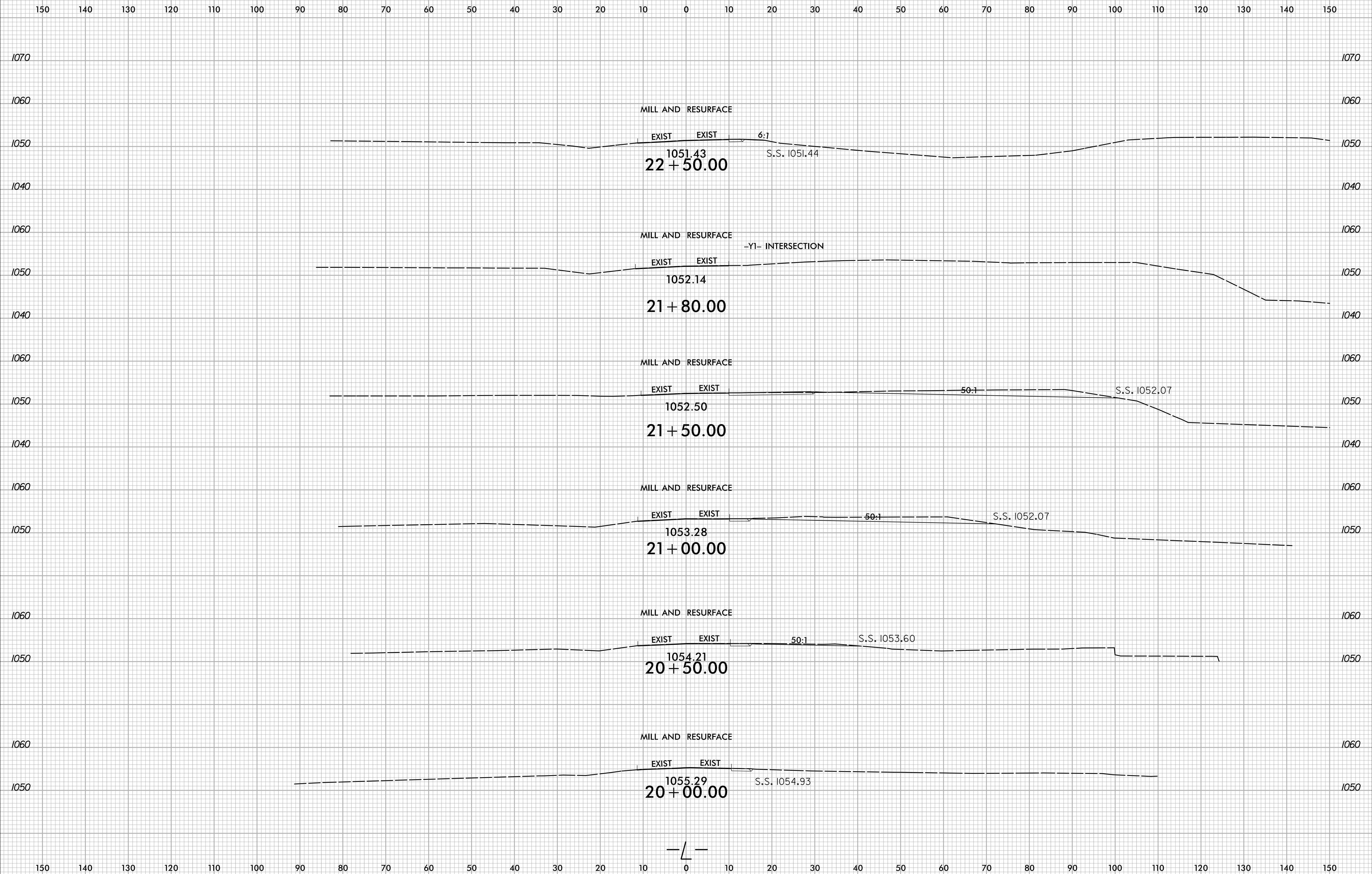
7/26/2024
X:\NC000\W-5712R\Roadway\XSC\W-5712R_Rdy_xpl.L.dgn
User:sm314m



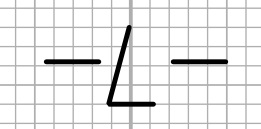
6/23/16



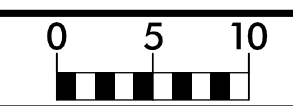
PROJ. REFERENCE NO.	SHEET NO.
W-5712R	X-3



7/26/2024
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User:smc31m

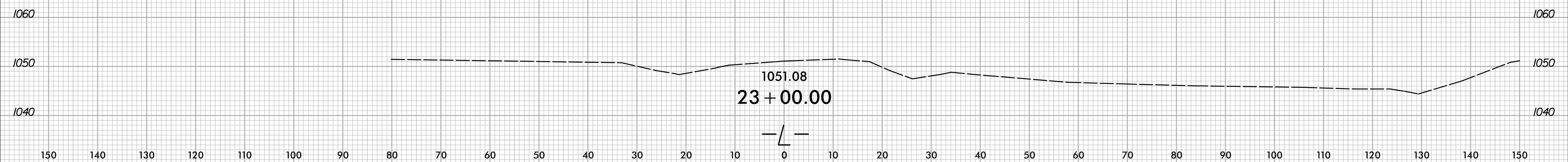


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
W-5712R	X-4

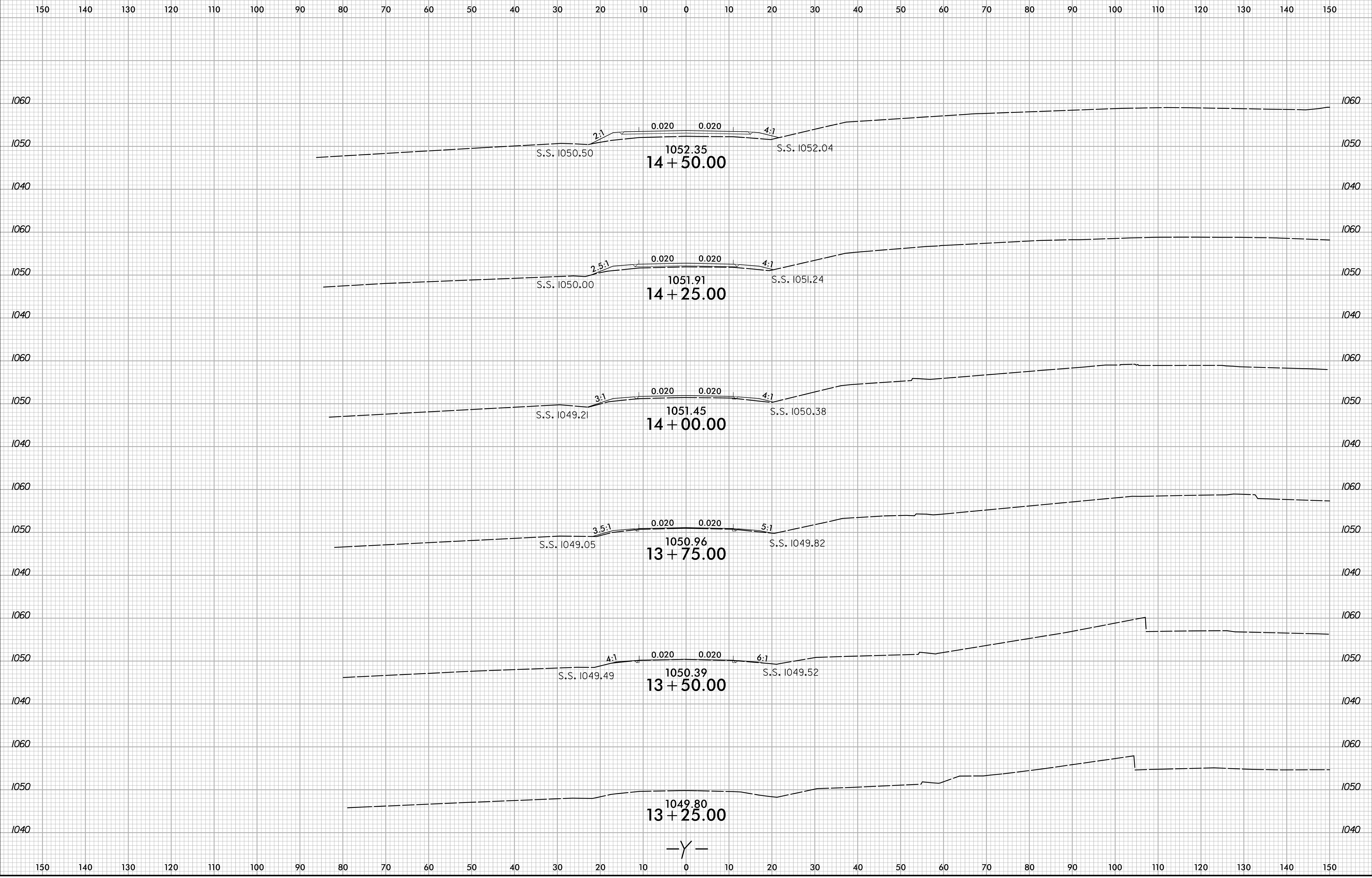
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7/26/2024
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User:smc3\m

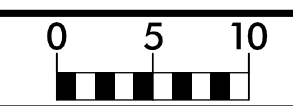
6/23/16

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	W-5712R	X-5

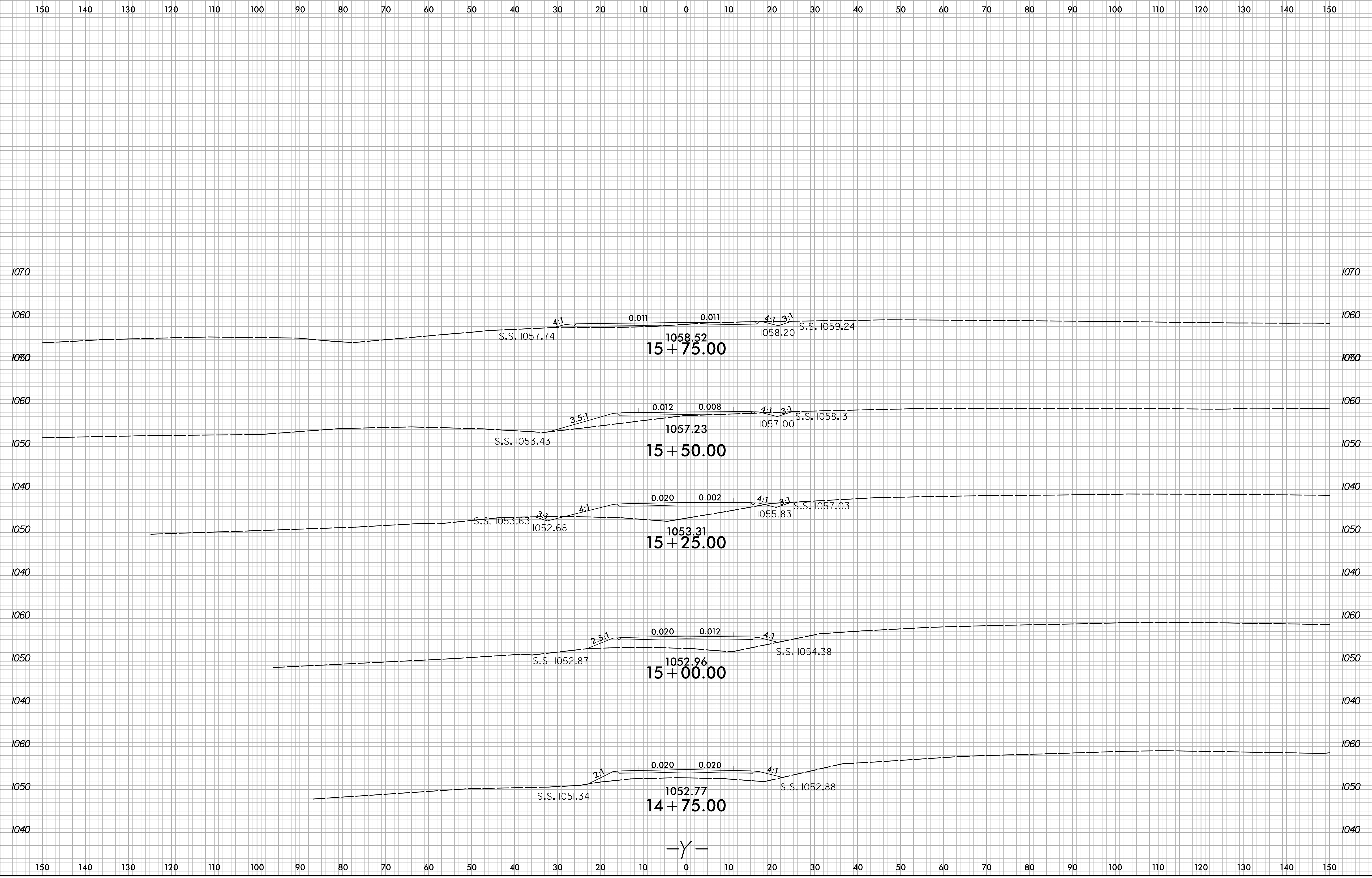


7/26/2024
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User:smg\jlm

6/23/16

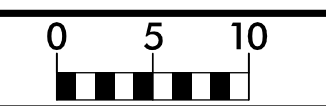


PROJ. REFERENCE NO.	SHEET NO.
W-5712R	X-6

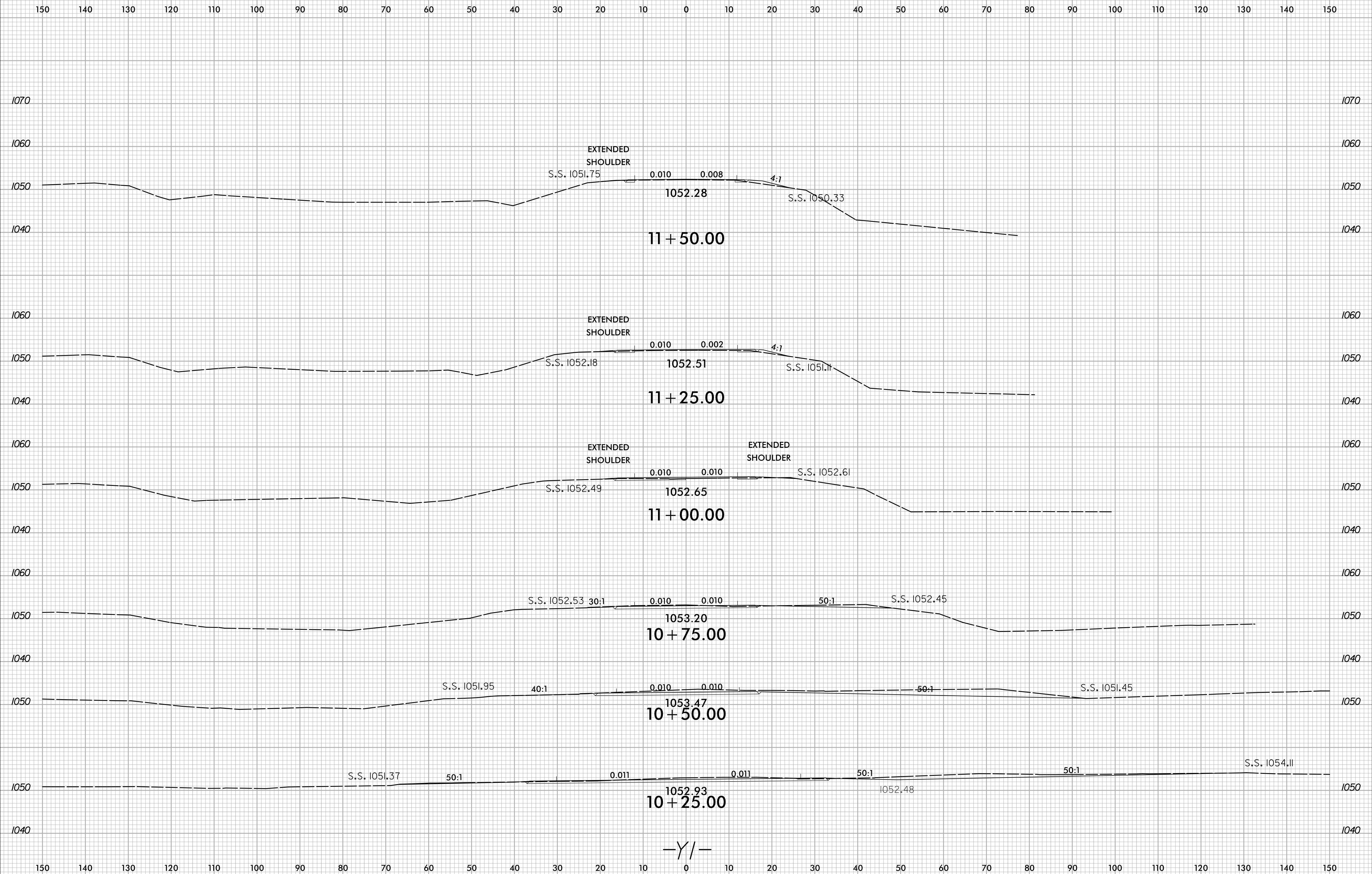


7/26/2024
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User:smg14m

6/23/16



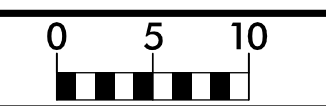
PROJ. REFERENCE NO.	SHEET NO.
W-5712R	X-7



-Y/-

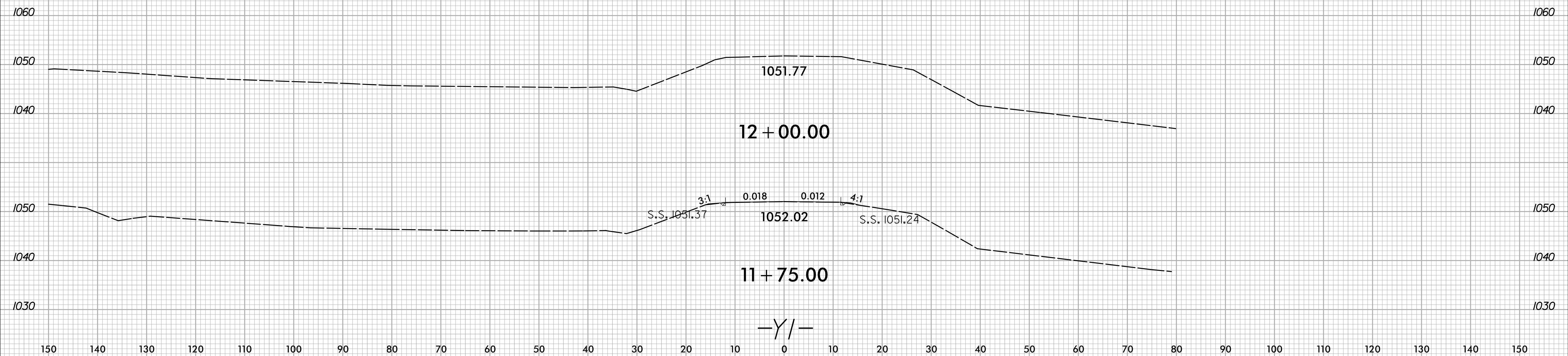
7/26/2024
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User:rsme141m

6/23/16



PROJ. REFERENCE NO.	SHEET NO.
W-5712R	X-8

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7/26/2024
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 User:smeylin