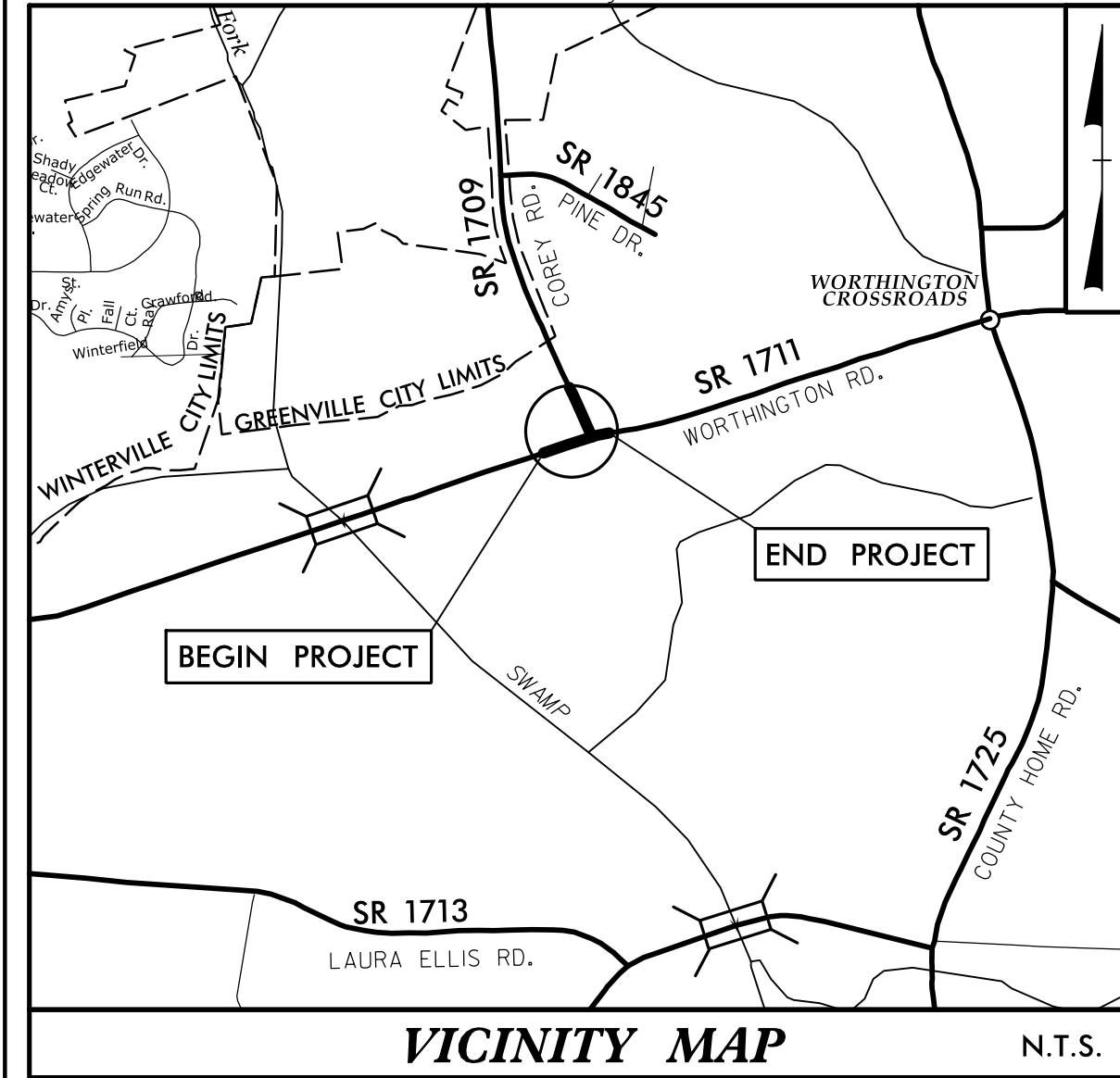


09/08/19

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



VICINITY MAP

N.T.S.

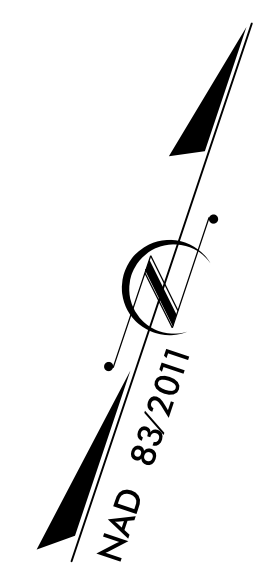
100% PLANS

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PITT COUNTY**

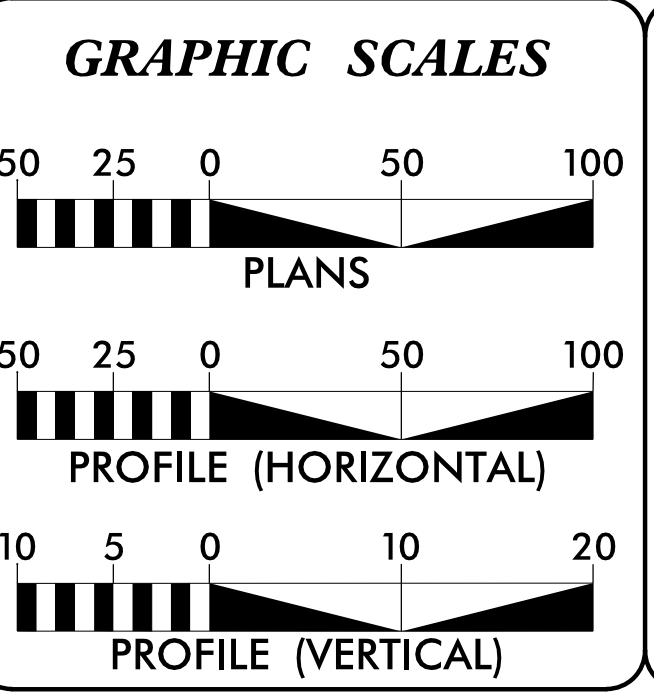
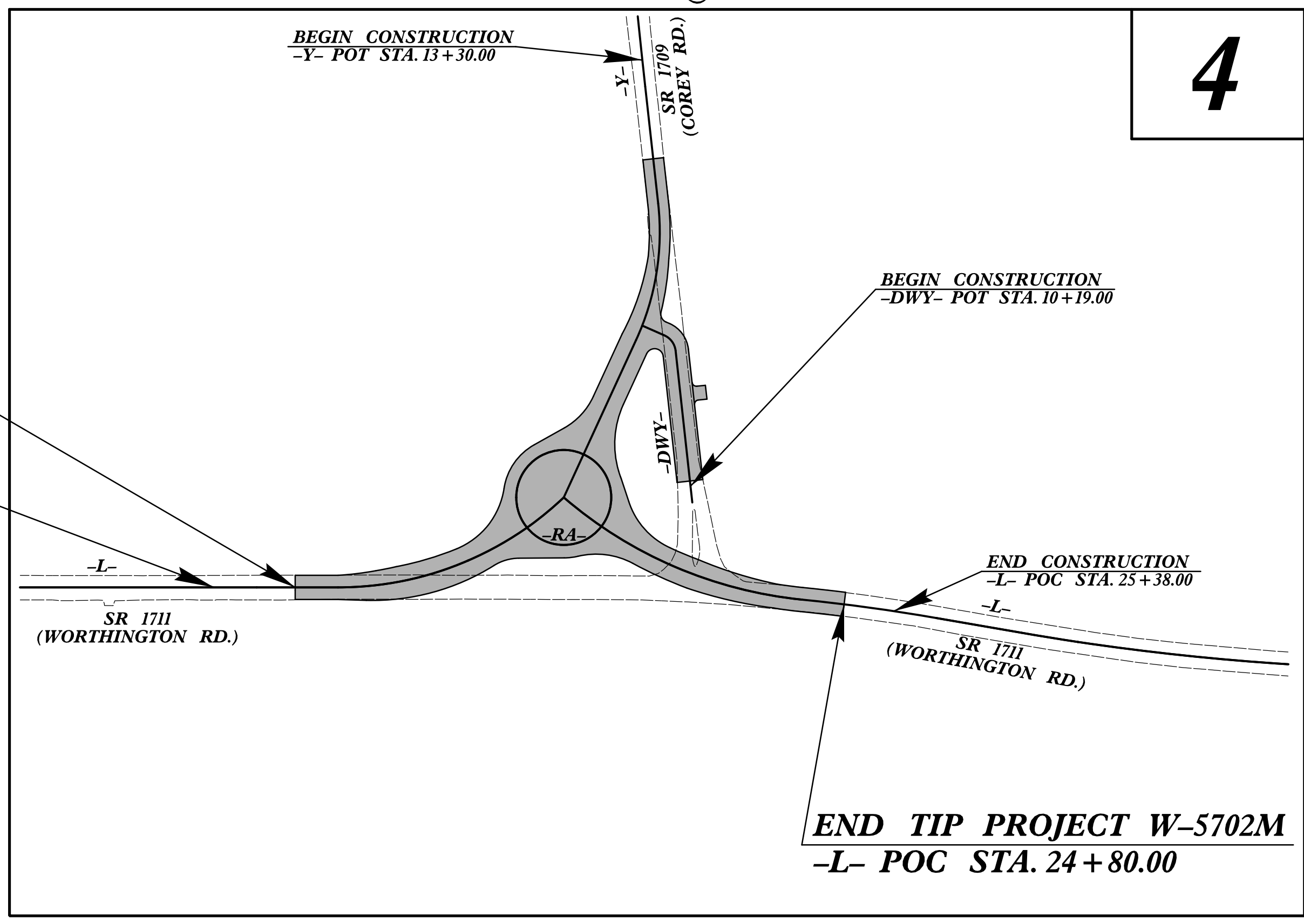
**LOCATION: INTERSECTION OF SR 1711 (WORTHINGTON RD.)  
AND SR 1709 (COREY RD.)**  
**TYPE OF WORK: GRADING, PAVING, & DRAINAGE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702M	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44848.1.13	HSIP-1711(006)	P.E.	
44848.2.13	HSIP-1711(006)	RW & UTIL.	
44848.3.13	HSIP-1711(006)	CONSTR.	



**TIP PROJECT: W-5702M**

**CONTRACT: DB00433**



**DESIGN DATA**

ADT 2023 =	13,200
ADT 2043 =	25,200
K =	%
D =	%
T =	% *
V =	50 MPH
* TTST =	DUAL
FUNC CLASS =	
MAJOR COLLECTOR	

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT W-5702M	= 0.131 MILES
TOTAL LENGTH OF TIP PROJECT W-5702M	= 0.131 MILES

NCDOT CONTACT: LARRY (LANG) JONES, PE  
DIVISION 2 DESIGN ENGINEER

PLANS PREPARED FOR THE NCDOT BY:

**stv**  
STV Engineers, Inc.  
1600 Perimeter Park Dr.  
Suite 225  
Morrisville, NC 27560  
NC License Number F-0991

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JUNE 25, 2019

LETTING DATE: JULY, 2024

PATRICK A. LIVINGSTON, PE  
PROJECT ENGINEER

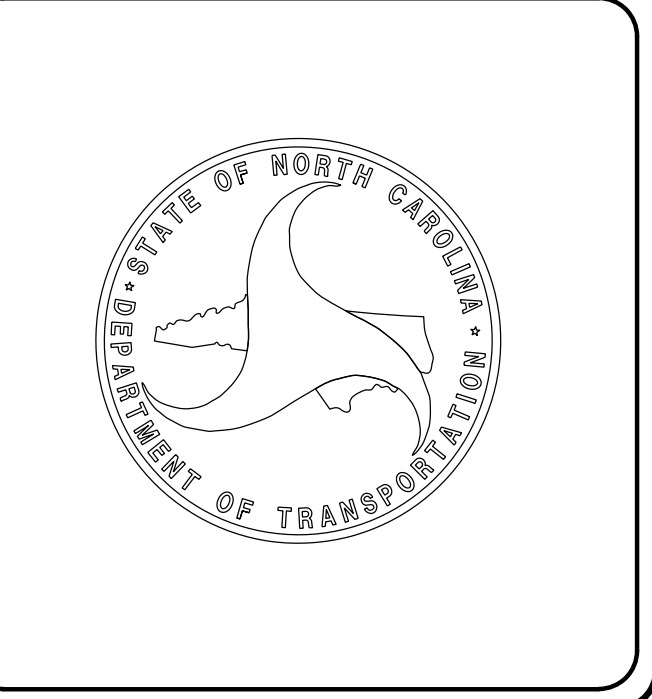
WESTON D. MURPHY, PE  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

DocuSigned by:  
Celina Bochis-Caslar  
SIGNATURE: 6/4/2024

**ROADWAY DESIGN ENGINEER**

DocuSigned by:  
Weston Murphy  
SIGNATURE: 6/4/2024



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

# INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B-1	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	ROADWAY DETAILS
3B-1	ROADWAY SUMMARIES
3D-1 THRU 3D-2	DRAINAGE SUMMARIES
4	PLAN SHEET
5 THRU 6	PROFILE SHEETS
RW-1 THRU RW-4	SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENT, AND PROPERTY TIES
TMP-1 THRU TMP-7	TRANSPORTATION 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
UC-1 THRU UC-6	UTILITIES CONSTRUCTION PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1	CROSS SECTION INDEX OF SHEETS
X-1A	CROSS SECTION SUMMARY
X-2 THRU X-17	CROSS SECTIONS

# GENERAL NOTES

**GENERAL NOTES:** 2024 SPECIFICATIONS EFFECTIVE: 01-01-2024

**GRADE LINE:**  
**GRADING AND SURFACING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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.

**SAFETY CLEARING:**  
 THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR "CLEARING AND GRUBBING".

**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.

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

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

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

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

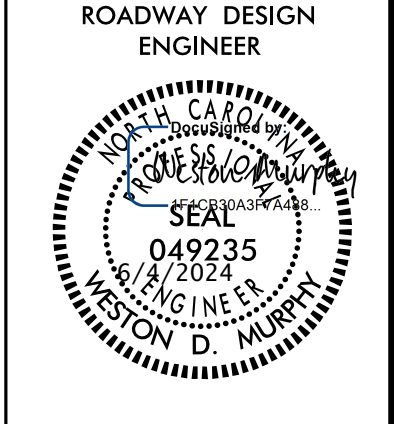
**GUARDRAIL:**  
 THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

**UTILITIES:**  
 UTILITY OWNERS ON THIS PROJECT ARE:  
 POWER -GREENVILLE UTILITES COMMISSION  
 TELECOMMUNICATIONS - CENTURY LINK  
 TELECOMMUNICATIONS - CONTERRA  
 CATV - SUDDEN LINK  
 NATURAL GAS - GREENVILLE UTILITIES COMMISSION

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

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

PROJECT REFERENCE NO. <i>W-5702M</i>	SHEET NO. <i>1A</i>
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**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**STV Engineers, Inc.**  
 1600 Perimeter Park Dr.  
 Suite 225  
 Morrisville, NC 27560  
 NC License Number F-0991

# STANDARD DRAWINGS

2024 ROADWAY ENGLISH STANDARD DRAWINGS EFF. January, 2024

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - 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
<b>DIVISION 2 - EARTHWORK</b>	
200.03	Method of Clearing - Method III
<b>DIVISION 3 - PIPE CULVERTS</b>	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
<b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>	
654.01	Pavement Repairs
<b>DIVISION 8 - INCIDENTALS</b>	
840.01	Brick Catch Basin
840.02	Concrete Catch Basin
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type 'B'
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.45	Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap







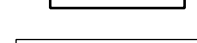




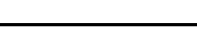
# STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

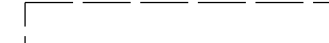
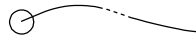

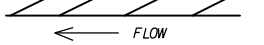

## BOUNDARIES AND PROPERTY:

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	
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—S—
Potential Contamination Area: Soil	—S—S—S—
Known Contamination Area: Water	—W—W—W—
Potential Contamination Area: Water	—W—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:

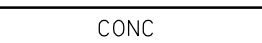

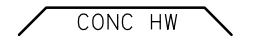


Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent 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	—(R/W)—
Existing Control of Access Line	—(C/A)—
Proposed Control of Access Line	—(C/A)—
Proposed ROW and CA Line	—(R/W & C/A)—
Existing Easement Line	—E—
Proposed Temporary Construction Easement	—E—
Proposed Temporary Drainage Easement	—TDE—
Proposed Permanent Drainage Easement	—PDE—
Proposed Permanent Drainage/Utility Easement	—DUE—
Proposed Permanent Utility Easement	—PUE—
Proposed Temporary Utility Easement	—TUE—
Proposed Aerial Utility Easement	—AUE—

## ROADS AND RELATED FEATURES:

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








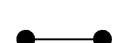

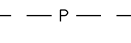
Woods Line	_____
Orchard	
Vineyard	

## EXISTING STRUCTURES:







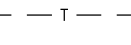
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	_____
Footbridge	—>—<—
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	_____
Storm Sewer Manhole	
Storm Sewer	—S—

## 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)*	—P—
U/G Power Line (SUE – LOS C)*	—P—
U/G Power Line (SUE – LOS D)*	—P—




## 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)*	—T—
U/G Telephone Cable (SUE – LOS C)*	—T—
U/G Telephone Cable (SUE – LOS D)*	—T—
U/G Telephone Conduit (SUE – LOS B)*	—TC—
U/G Telephone Conduit (SUE – LOS C)*	—TC—
U/G Telephone Conduit (SUE – LOS D)*	—TC—
U/G Fiber Optics Cable (SUE – LOS B)*	—TF—
U/G Fiber Optics Cable (SUE – LOS C)*	—TF—
U/G Fiber Optics Cable (SUE – LOS D)*	—TF—




## 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)*	—W—
U/G Water Line (SUE – LOS C)*	—W—
U/G Water Line (SUE – LOS D)*	—W—
Above Ground Water Line	—A/G Water—
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)*	—TV—
U/G TV Cable (SUE – LOS C)*	—TV—
U/G TV Cable (SUE – LOS D)*	—TV—
U/G Fiber Optic Cable (SUE – LOS B)*	—TV FO—
U/G Fiber Optic Cable (SUE – LOS C)*	—TV FO—
U/G Fiber Optic Cable (SUE – LOS D)*	—TV FO—











## GAS:

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

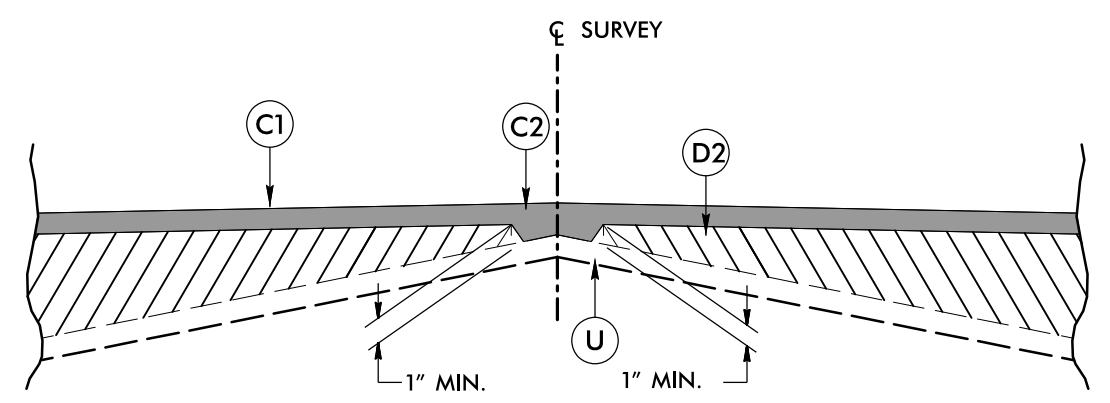
## SANITARY SEWER:

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

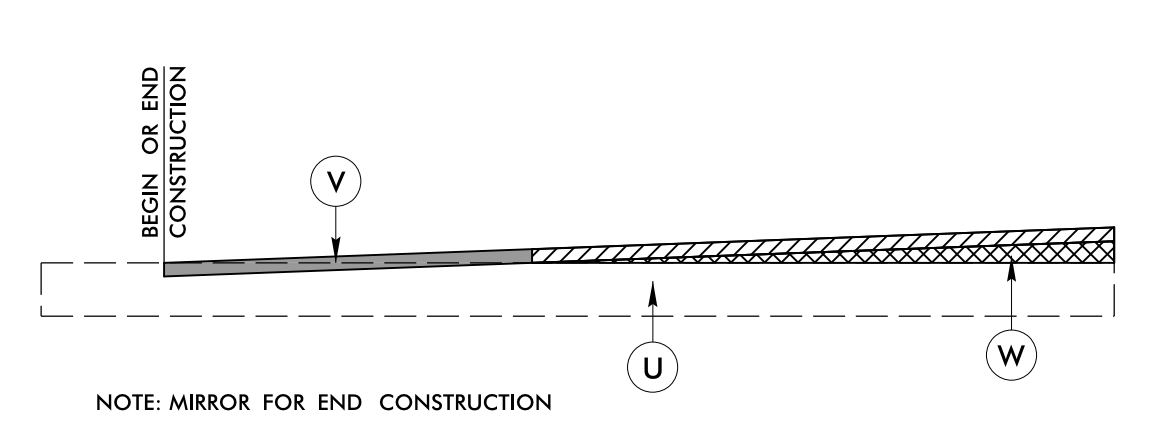
## MISCELLANEOUS:

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

8/17/99



Detail Showing Method of Wedging



INCIDENTAL MILLING DETAIL

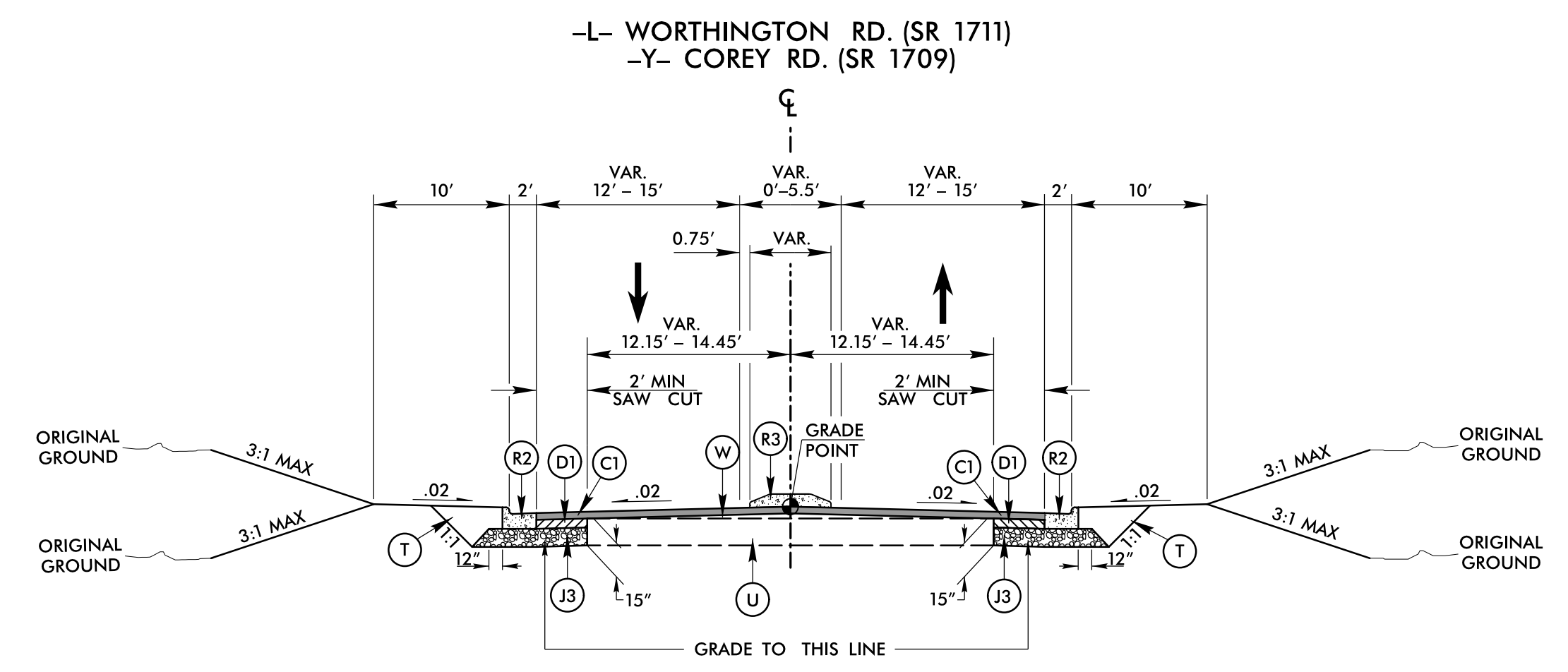
LINE	FROM	TO
-L-	17+88.00	18+13.00
-L-	24+55.00	24+80.00
-Y-	14+45.00	15+40.00

PAVEMENT SCHEDULE	
REVISED FINAL PAVEMENT DESIGN 10/14/19	
A1	PROP. 7" TRUCK MOUNTABLE CONCRETE ISLAND CLASS AA
C1	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1.5" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ.YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ.YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.
J1	PROP. 4" AGGREGATE BASE COURSE
J2	PROP. 6" AGGREGATE BASE COURSE
J3	PROP. 8" AGGREGATE BASE COURSE
P	PRIME COAT 0.35 GAL/SY
R1	1'-6" CONCRETE CURB AND GUTTER
R2	2'-6" CONCRETE CURB AND GUTTER
R3	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL THIS SHEET)

NOTE : PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.  
NOTE : INCIDENTAL MILLING TO BE USED AT DISCRETION OF ENGINEER FOR ALL TIE-INS.

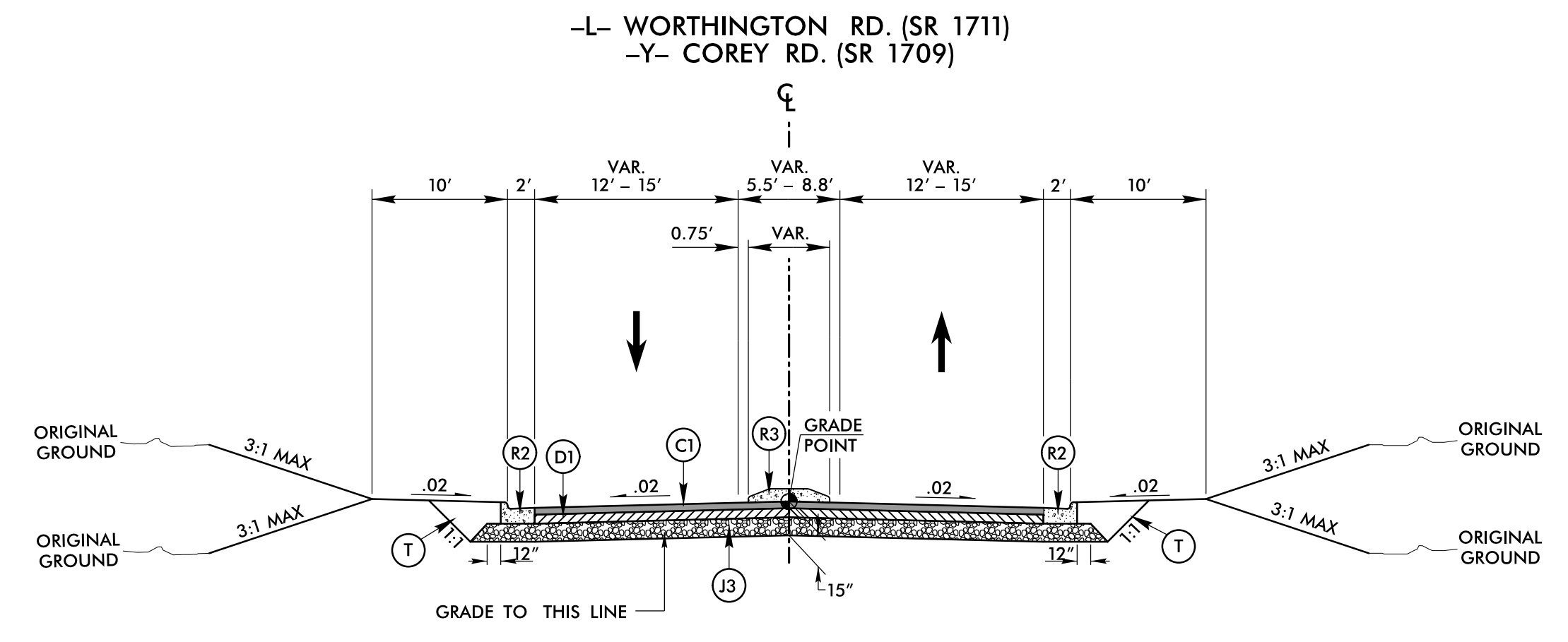
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PROJECT REFERENCE NO. W-5702M	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 049235 8/12/2024 J. P. MURPHY	PAVEMENT DESIGN ENGINEER SEAL 39779 8/14/2024 J. P. MURPHY
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
STV Engineers, Inc. 1800 Perimeter Park Dr. Suite 225 Morrisville, NC 27560 NC License Number F-0991	



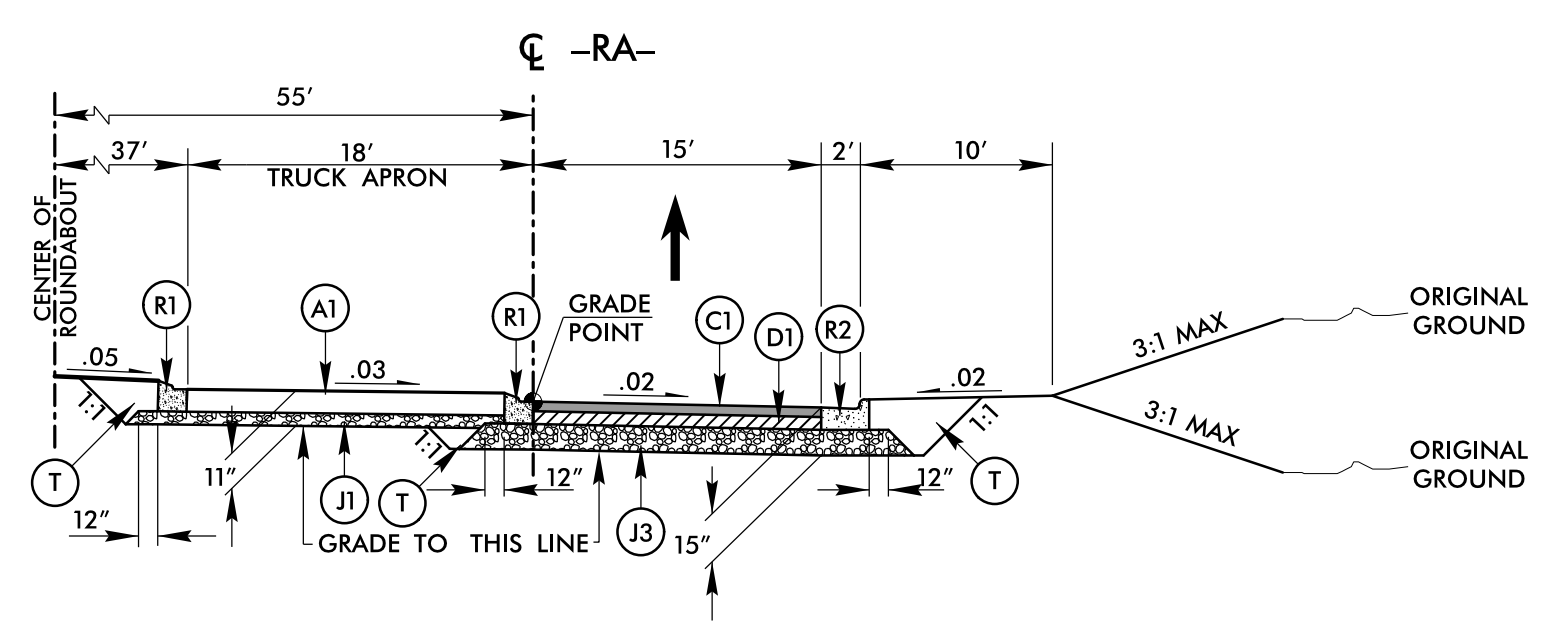
TYPICAL SECTION NO. 1

-L- STA. 17+88.00 TO 19+00.94  
-L- STA. 23+25.00 TO 24+80.00  
-Y- STA. 14+45.00 TO 15+25.00



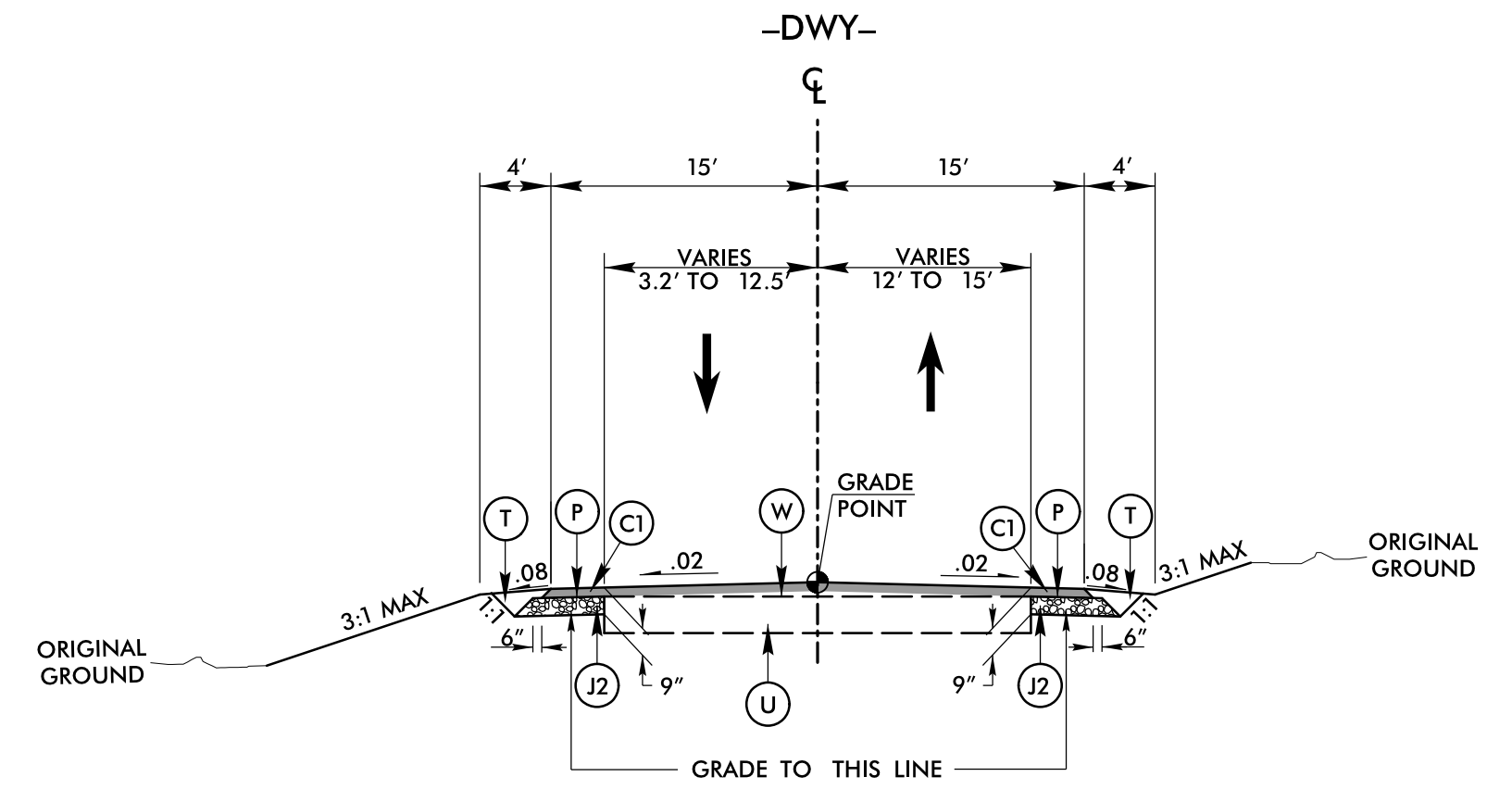
TYPICAL SECTION NO. 2

-L- STA. 19+00.94 TO 20+55.81  
-L- STA. 21+95.97 TO 23+25.00  
-Y- STA. 15+25.00 TO 17+90.00



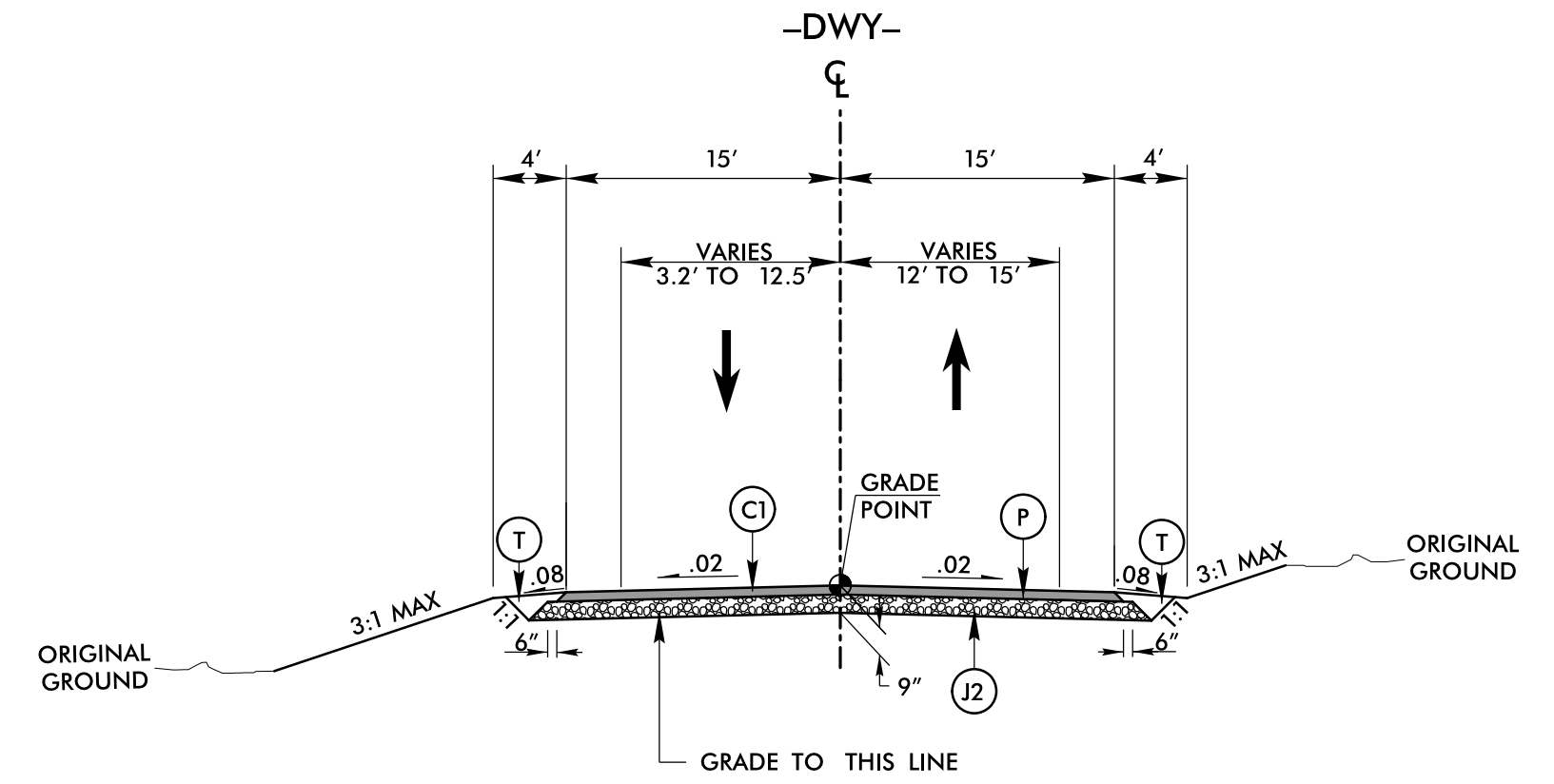
TYPICAL SECTION NO. 3

-RA- STA. 10+00.00 TO STA. 13+45.57



TYPICAL SECTION NO. 4

-DWY- STA. 10+25.00 TO 11+53.38



TYPICAL SECTION NO. 5

-DWY- STA. 11+53.38 TO 12+11.11  
NOTE: IN AREAS OF C&G USE -Y- PAVEMENT DESIGN









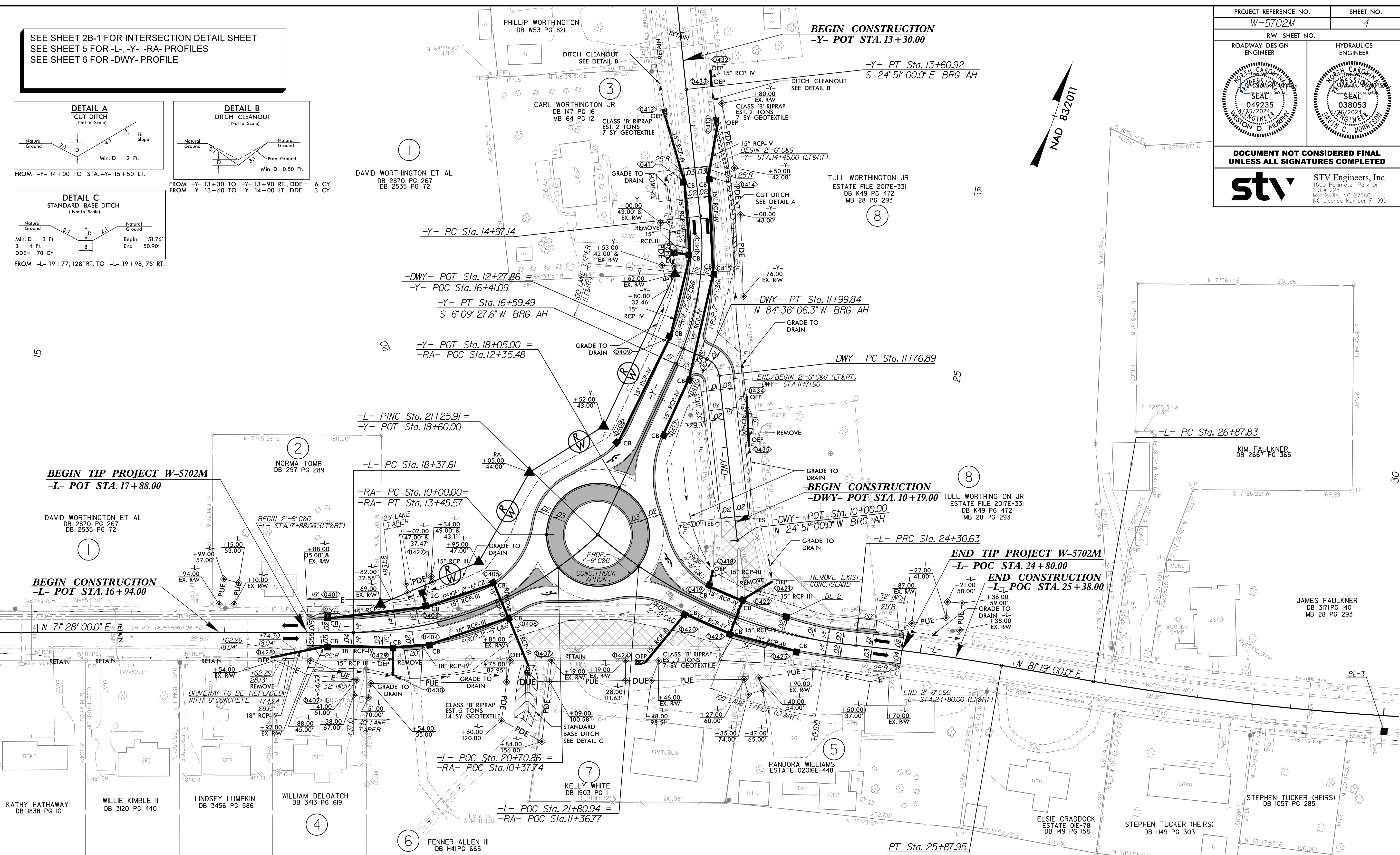
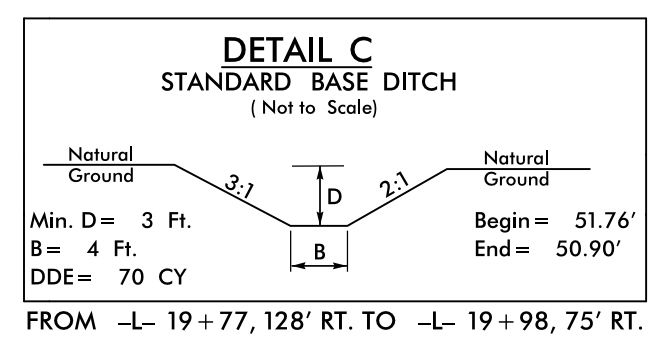
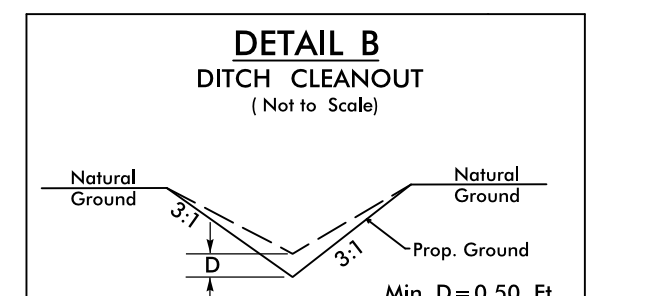
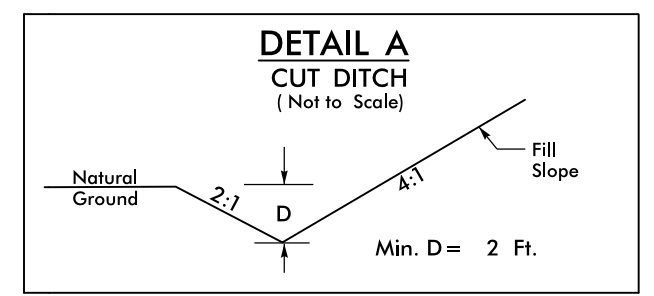






PROJECT REFERENCE NO. W-5702M		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
		STV Engineers, Inc. 1600 Perimeter Park Dr. Suite 225 Morrisville, NC 27560 NC License Number F-0991	

SEE SHEET 2B-1 FOR INTERSECTION DETAIL SHEET  
SEE SHEET 5 FOR -L-, -Y-, -RA- PROFILES  
SEE SHEET 6 FOR -DWY- PROFILE



-Y-		
PI Sta 11+84.39	PI Sta 13+02.08	PI Sta 15+80.36
$\Delta = 0' 36' 27.0''$ (RT)	$\Delta = 0' 36' 27.0''$ (LT)	$\Delta = 3' 00' 27.6''$ (RT)
$D = 0' 30' 58.2''$	$D = 0' 30' 58.2''$	$D = 1' 05' 54.9''$
$L = 117.69'$	$L = 117.69'$	$L = 162.36'$
$T = 58.85'$	$T = 58.85'$	$T = 83.22'$
$R = 11,100.00'$	$R = 11,100.00'$	$R = 300.00'$
		$e = NC$
		$DS = N/A$

-RA-	
PI Sta 10+00.01	PI Sta 19+89.10
$\Delta = 359' 59' 22.5''$ (LT)	$\Delta = 43' 28' 12.8''$ (LT)
$D = 104' 10' 26.9''$	$D = 15' 04' 40.2''$
$L = 345.57'$	$L = 288.31'$
$T = 0.01'$	$T = 151.49'$
$R = 55.00'$	$R = 380.00'$
$e = NC$	$e = NC$
$DS = N/A$	$DS = N/A$

-L-	
PI Sta 19+89.10	PI Sta 22+83.17
$\Delta = 43' 28' 12.8''$ (LT)	$\Delta = 34' 55' 05.7''$ (LT)
$D = 15' 04' 40.2''$	$D = 1' 27' 33.0''$
$L = 288.31'$	$L = 304.72'$
$T = 151.49'$	$T = 157.26'$
$R = 380.00'$	$R = 500.00'$
$e = NC$	$e = NC$
$DS = N/A$	$DS = N/A$

-DWY-	
PI Sta 25+09.32	PI Sta 29+27.57
$\Delta = 4' 05' 49.5''$ (RT)	$\Delta = 9' 34' 00.0''$ (LT)
$D = 2' 36' 15.7''$	$D = 1' 59' 59.5''$
$L = 157.32'$	$L = 478.37'$
$T = 78.69'$	$T = 239.74'$
$R = 2,200.00'$	$R = 2,865.00'$

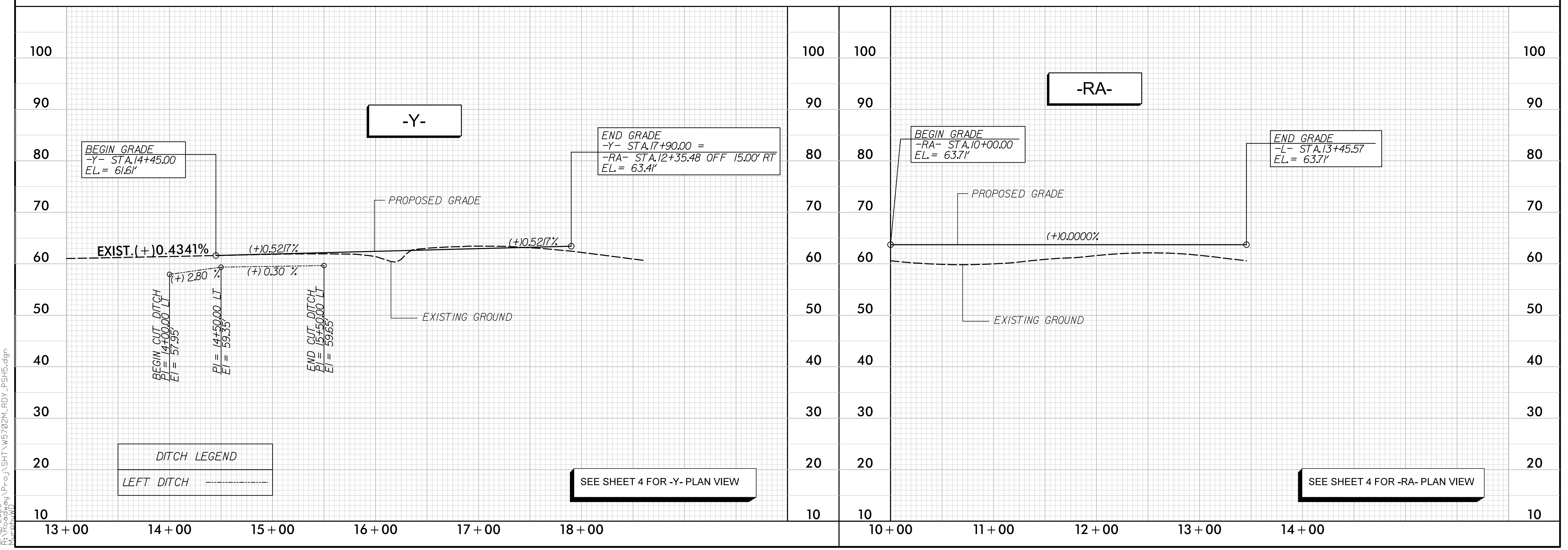
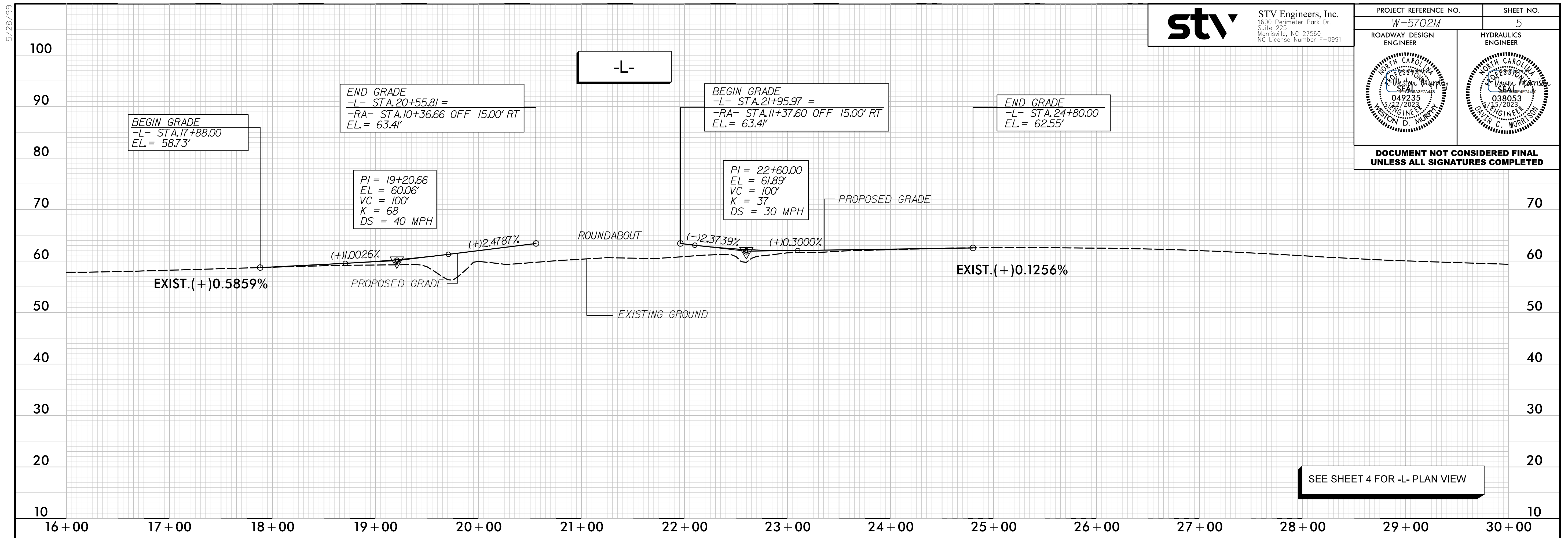
-DWY-	
PI Sta 11+89.53	PI Sta 11+89.53
$\Delta = 59' 45' 06.3''$ (LT)	$\Delta = 59' 45' 06.3''$ (LT)
$D = 260' 26' 07.3''$	$D = 260' 26' 07.3''$
$L = 22.94'$	$L = 22.94'$
$T = 12.64'$	$T = 12.64'$
$R = 22.00'$	$R = 22.00'$
$e = NC$	$e = NC$
$DS = N/A$	$DS = N/A$

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PROJECT REFERENCE NO. <b>W-5702M</b>	SHEET NO. <b>5</b>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
049235 1/25/2023 ENGINEER WESTON D. MURPHY	038053 1/25/2023 ENGINEER DAVID C. MORTISON

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



5/28/2023  
 W:\Projects\W5702M\RDY\_PSH5.dgn

**DITCH LEGEND**

LEFT DITCH -----



5/28/99

**stv** STV Engineers, Inc.  
 1800 Perimeter Park Dr.  
 Suite 225  
 Morrisville, NC 27560  
 NC License Number F-0991

PROJECT REFERENCE NO. <i>W-5702M</i>	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

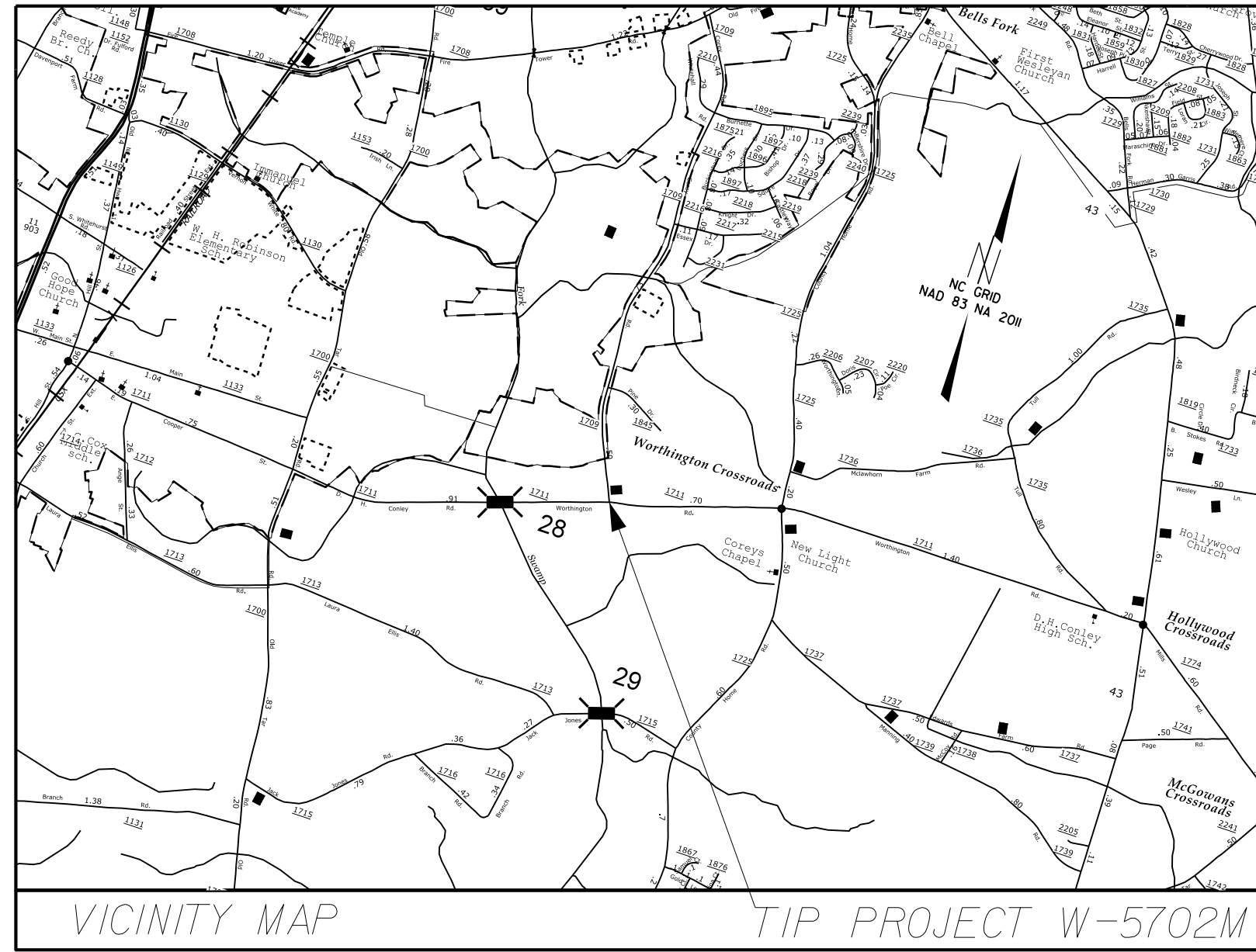


SEE SHEET 4 FOR -DWY- PLAN VIEW

09/08/99

TIP PROJECT: W-5702M

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702M	RW01	6

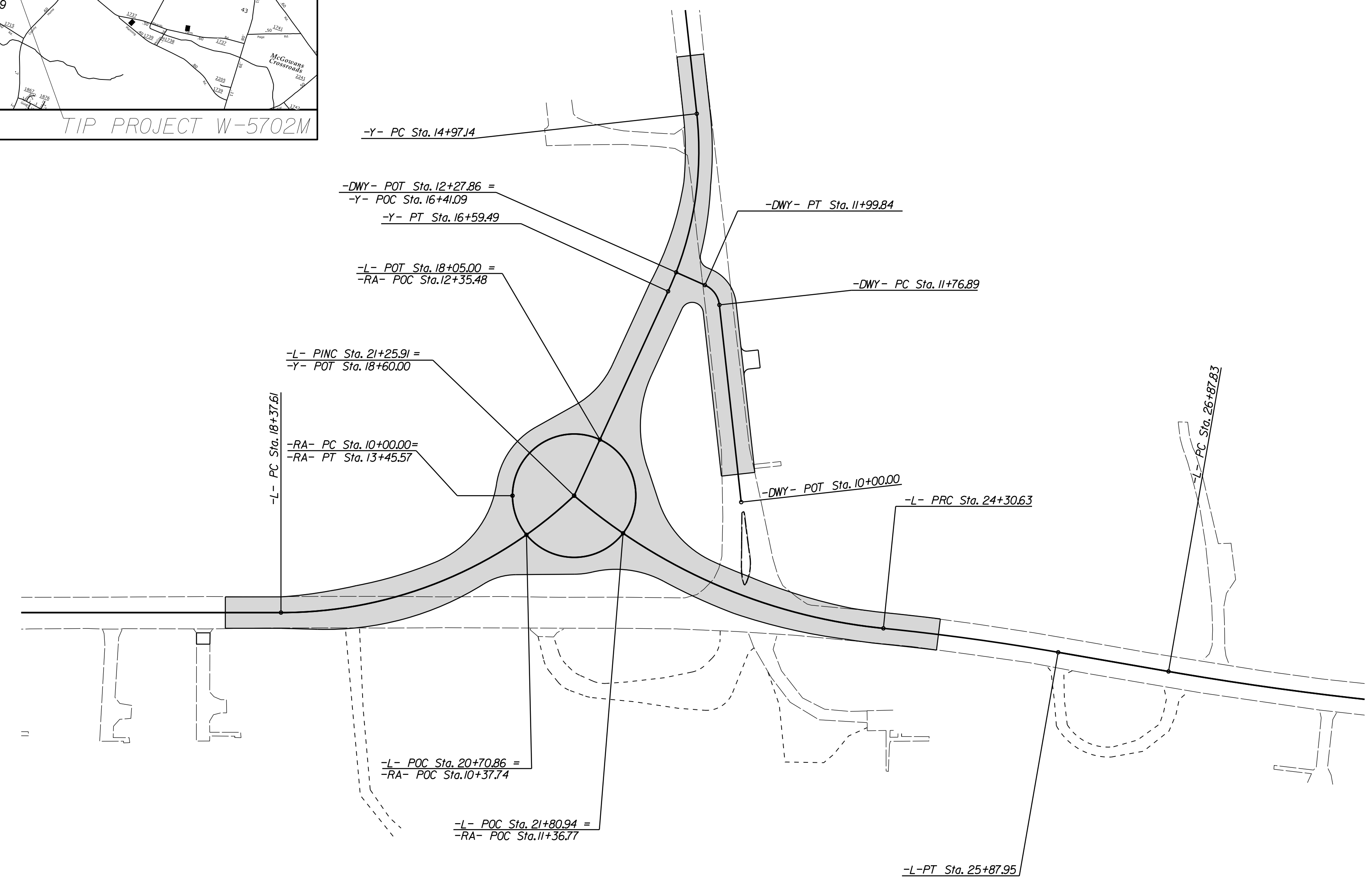
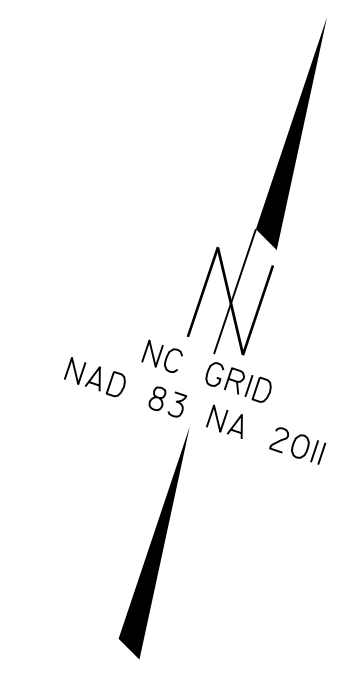


STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

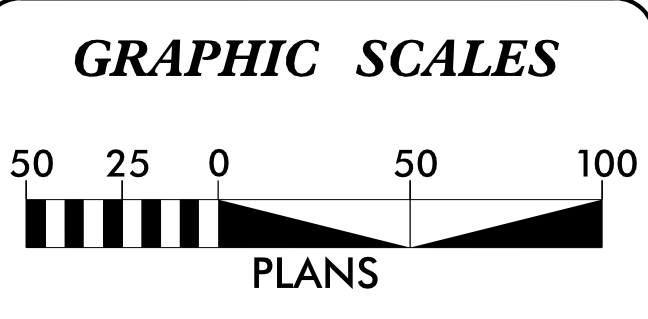
SURVEY CONTROL, EXISTING CENTERLINES,  
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

**PITT COUNTY**

SR 1711 (WORTHINGTON ROAD) AT SR 1709 (COREY ROAD)



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "GPS2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 650890.868(ft) EASTING: 2485923.870(ft) ELEVATION: 53.42(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999887280

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS2" TO -L- STATION 10+00.00 IS N 69°00'07" E 433.83(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
 1037 WH SMITH BLVD., GREENVILLE, NC 27835

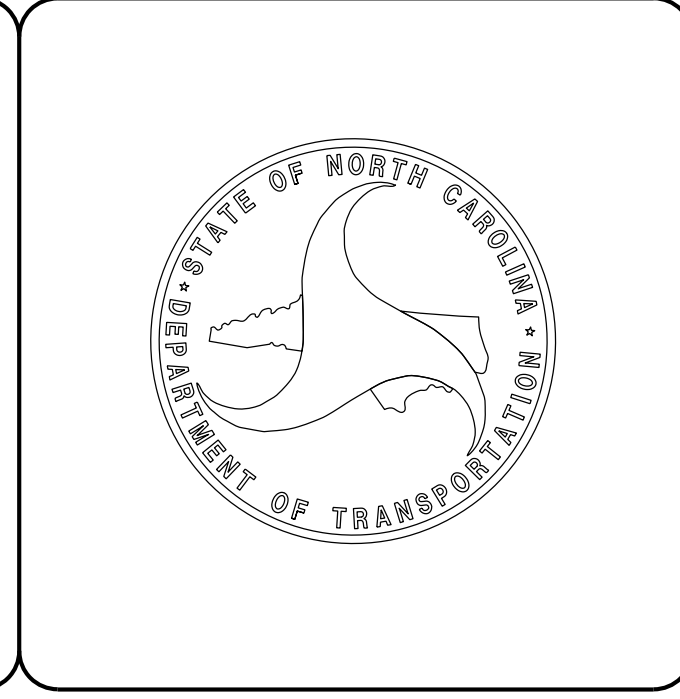
2024 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 APRIL 2019

**LETTING DATE:**  
 JUNE 2024

**PROFESSIONAL LAND SURVEYOR**

SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_



29-APR-2024 09:34 G:\PROJECTS\PITT\W5702M\RW\W-5702M\_PSH\_RW01.dgn \$\$\$USERNAME\$\$\$



# SURVEY CONTROL SHEET W-5702M

## W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

### -BASELINE-

BL	POINT	DESC.	NORTH	EAST	ELEVATION
GPS1		GPS W5702	650597.3620	2485050.6380	49.86
GPS2		GPS W5702	650890.8680	2485923.8700	53.42
BL1		BL -1	651143.9798	2486677.6248	56.28
BL2		BL -2	651475.1581	2487556.4293	61.69
BL3		BL -3	651562.4833	2488201.2604	58.55

BY	POINT	DESC.	NORTH	EAST	ELEVATION
BY2		BL -2	651475.1581	2487556.4293	61.69
BY1			652216.5867	2487140.8609	59.16

### -BENCHMARK-

***** BM1            ELEVATION - 53.82 N 650933       E 2486122 EY STATION 6+27.00 1486 LEFT RR SPIKE IN OLD SERVICE POLE *****	***** BM2            ELEVATION - 58.76 N 652206       E 2487099 EY STATION 13+71.00 65 LEFT RR SPIKE IN 18" PINE *****
--	---

### -EXISTING ALIGNMENTS-

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT		651046.325	2486328.890							
LINE				N 71°28'00.0" E	1120.04					
PC		651402.336	2487390.840							
CURVE				N 76°23'30.0" E	412.09	09°51'00.0"(RT)	02°23'14.4"	412.60	206.81	2400.00
PT		651499.293	2487791.360							
LINE				N 81°19'00.0" E	99.90					
PC		651514.375	2487890.112							
CURVE				N 76°32'00.0" E	477.78	09°34'00.0"(LT)	02°00'00.0"	478.33	239.72	2864.79
PT		651625.640	2488354.753							
LINE				N 71°45'00.0" E	183.25					
POT		651683.026	2488528.783							

EY	POINT	N	E	BEARING	DIST
POT		651442.776	2487524.197		
LINE				N 24°51'00.0" W	952.38
POT		652306.979	2487123.964		

NOTES:

I. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

8/17/99

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# PROPOSED ALIGNMENT CONTROL SHEET W-5702M

8/17/99

REVISIONS

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L

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	651046.325	2486328.890							
LINE			N 71°28'00.0" E	837.61					
PC	651312.563	2487123.056							
CURVE			N 49°43'53.6" E	281.44	43°28'12.8*(LT)	15°04'40.2"	288.31	151.49	380.00
PCC	651494.478	2487337.802							
CURVE			S 85°19'16.6" E	300.03	34°55'05.7*(LT)	11°27'33.0"	304.72	157.26	500.00
PCC	651470.005	2487636.827							
CURVE			N 79°16'05.2" E	157.28	04°05'49.5*(RT)	02°36'15.7"	157.32	78.69	2200.00
PT	651499.293	2487791.360							
LINE			N 81°19'00.0" E	99.88					
PC	651514.373	2487890.094							
CURVE			N 76°32'00.0" E	477.81	09°34'00.0*(LT)	01°59'59.5"	478.37	239.74	2865.00
PT	651625.645	2488354.770							
LINE			N 71°45'00.0" E	183.23					
POT	651683.026	2488528.783							

Y

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	652303.709	2487125.478							
LINE			S 24°51'00.0" E	125.54					
PC	652189.793	2487178.235							
CURVE			S 24°32'46.5" E	117.69	00°36'27.0*(RT)	00°30'58.2"	117.69	58.85	11100.00
PCC	652082.738	2487227.128							
CURVE			S 24°32'46.5" E	117.69	00°36'27.0*(LT)	00°30'58.2"	117.69	58.85	11100.00
PT	651975.682	2487276.020							
LINE			S 24°51'00.0" E	136.21					
PC	651852.080	2487333.263							
CURVE			S 09°20'46.2" E	160.38	31°00'27.6*(RT)	19°05'54.9"	162.36	83.22	300.00
PT	651693.827	2487359.309							
LINE			S 06°09'27.6" W	200.51					
POT	651494.478	2487337.802							

RA

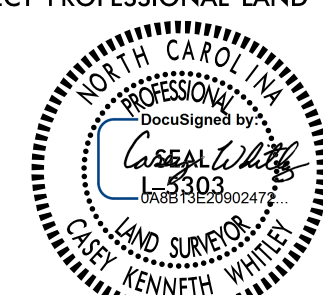
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	651476.996	2487285.654							
CURVE			N 18°31'41.2" W	0.01	359°59'22.5*(LT)	104°10'26.9"	345.57	0.01	55.00
PT	651477.005	2487285.651							

DWY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	651536.366	2487480.853							
LINE			N 24°51'00.0" W	176.89					
PC	651696.881	2487406.515							
CURVE			N 54°43'33.1" W	21.92	59°45'06.3*(LT)	260°26'07.3"	22.94	12.64	22.00
PT	651709.538	2487388.622							
LINE			N 84°36'06.3" W	28.03					
POT	651712.174	2487360.721							

NOTES:  
 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

# RIGHT OF WAY CONTROL SHEET W-5702M

PROJECT REFERENCE NO. <i>W-5702M</i>	SHEET NO. <i>RWO3E</i>
PROJECT PROFESSIONAL LAND SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Casey Kenneth Whitley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 27th day of April, 2023.

----- L-5303  
Professional Land Surveyor      PLS #      Seal

REVISIONS

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	18+69.00	-28.80	651350.2196	2487140.9995
L	19+95.00	-47.00	651426.4223	2487226.2336

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	15+62.00	27.41	651784.8316	2487327.2115
Y	17+52.00	43.00	651606.4670	2487306.6344

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RA	13+05.00	44.00	651534.3268	2487247.1759

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	13+80.00	-36.25	651973.6051	2487316.9284
Y	14+50.00	-42.00	651912.5036	2487351.5651
Y	15+00.00	-43.00	651867.1746	2487373.6429
Y	15+21.00	44.00	651814.7915	2487301.1508
Y	15+21.00	32.91	651818.6385	2487311.5547
Y	15+53.00	42.00	651789.2136	2487311.1776
Y	15+53.00	29.07	651792.3816	2487323.7149
Y	15+76.00	-48.21	651785.2061	2487404.1806

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	16+94.00	-30.00	651295.3616	2486977.3626
L	16+99.00	-57.00	651322.5507	2486973.5212
L	17+10.00	-30.00	651300.4473	2486992.5329
L	17+15.00	-53.00	651323.8438	2486989.9629
L	17+92.00	30.00	651269.6232	2487089.3516
L	18+38.00	67.00	651249.1858	2487144.7926
L	18+41.00	51.00	651265.4484	2487142.9119
L	18+51.00	70.00	651251.4995	2487160.2536
L	18+54.00	55.00	651266.7630	2487158.1983
L	19+02.00	-37.47	651371.1035	2487164.3584
L	19+02.00	-47.00	651379.4993	2487159.8486
L	19+34.00	-43.11	651390.5310	2487186.0885
L	19+34.00	-49.00	651395.4689	2487182.8734
L	19+60.00	120.00	651273.4744	2487303.0932
L	19+75.00	82.95	651314.3466	2487295.1799
L	19+84.00	156.00	651265.9262	2487351.1318
L	19+85.00	62.90	651337.3657	2487291.4219
L	20+09.00	100.58	651329.3523	2487338.3721
L	20+19.00	81.60	651351.5281	2487333.6672
L	22+19.00	92.93	651376.5353	2487408.3078
L	22+28.00	111.63	651356.1119	2487415.3967
L	22+46.00	76.26	651387.5048	2487442.2706
L	22+48.00	98.51	651365.1452	2487441.3980
L	23+27.00	60.00	651397.6876	2487535.0677
L	23+35.00	74.00	651383.9079	2487544.4702
L	23+40.00	54.00	651404.1016	2487549.3705
L	23+47.00	65.00	651393.4971	2487557.7307
L	23+90.00	31.42	651431.5335	2487601.3228
L	24+87.00	-30.19	651511.3761	2487686.0320
L	25+21.00	-58.00	651545.2232	2487714.8474
L	25+22.00	-41.00	651528.6881	2487718.9260
L	25+36.00	-59.00	651548.9425	2487729.8238
L	25+38.00	-30.05	651520.7853	2487736.8658

**NOTES:**

I. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.



I, Casey Kenneth Whitley, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 27th day of April, 2023.

L-5303 Professional Land Surveyor PLS # Seal

PROJECT REFERENCE NO. W-5702M SHEET NO. RW04 PROJECT PROFESSIONAL LAND SURVEYOR Seal L-5303 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Table with 2 columns and 2 rows of curve data for -EL- stations. Includes PI Sta 18+26.84, PI Sta 23+72.25, D, L, T, R values.

Table with 3 columns and 2 rows of curve data for -Y- stations. Includes PI Sta 11+84.39, PI Sta 13+02.08, PI Sta 15+80.36, D, L, T, R values.

Table with 1 column and 2 rows of curve data for -RA- stations. Includes PI Sta 10+00.01, D, L, T, R, SE values.

Table with 1 column and 2 rows of curve data for -L- stations. Includes PI Sta 19+89.10, PI Sta 22+83.17, D, L, T, R values.

Table with 1 column and 2 rows of curve data for -L- stations. Includes PI Sta 25+09.32, PI Sta 29+27.57, D, L, T, R values.

Table with 1 column and 2 rows of curve data for -D-W-Y- stations. Includes PI Sta 11+89.53, D, L, T, R values.

Table with 1 column and 2 rows of curve data for -D-W-Y- stations. Includes PI Sta 11+89.53, D, L, T, R values.

Table with 1 column and 2 rows of curve data for -D-W-Y- stations. Includes PI Sta 11+89.53, D, L, T, R values.

NOTES: PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

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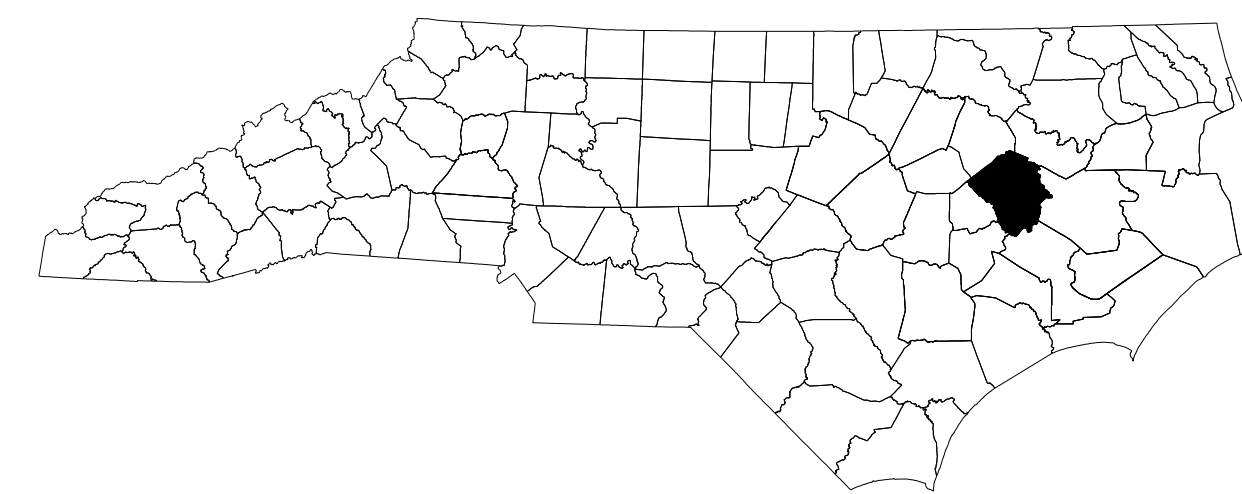


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

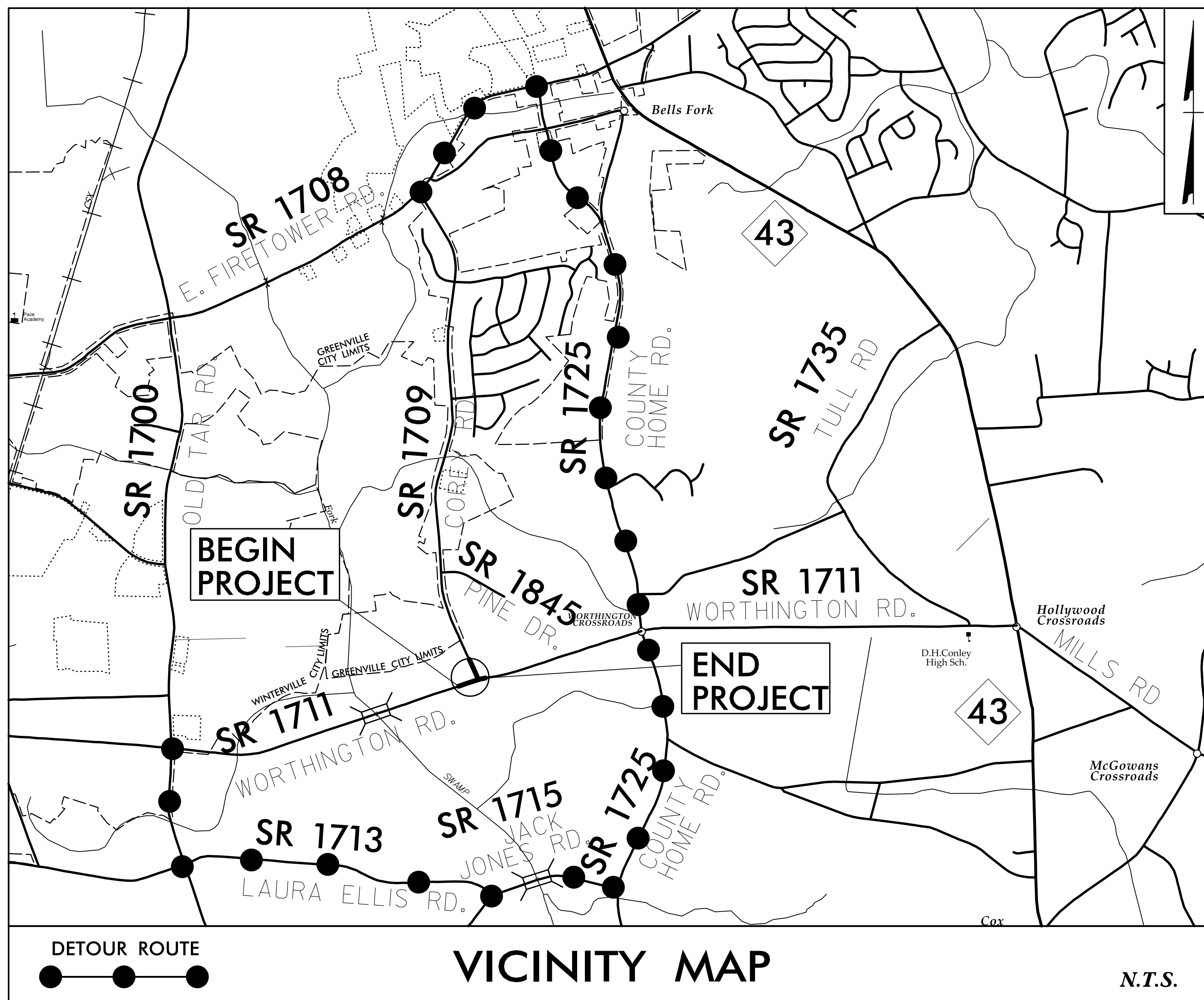
**PITT COUNTY**

SHEET NO.  
TMP-1



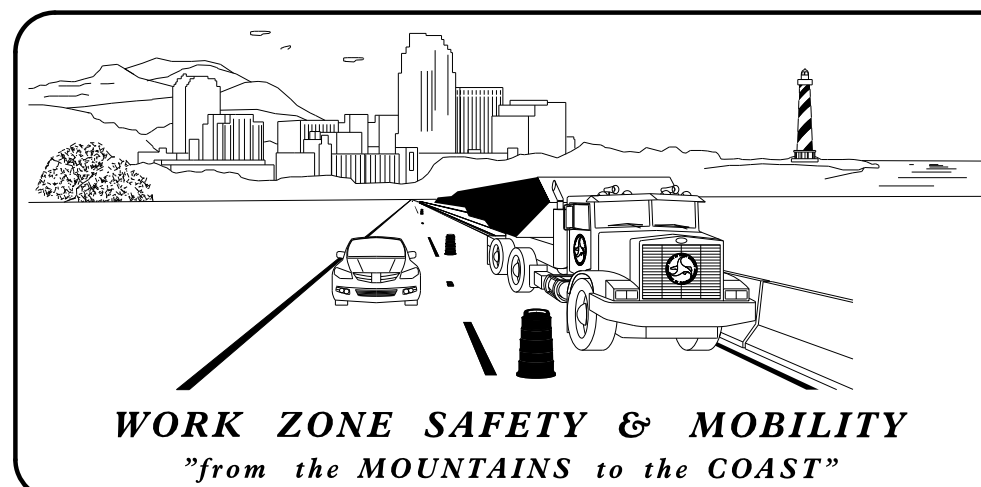
**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET & INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS & LEGEND
TMP-1B	GENERAL NOTES & MANAGEMENT STRATEGIES
TMP-2	TEMPORARY TRAFFIC CONTROL PHASING
TMP-3	PHASE I DETAIL, STEP 2
TMP-4	PHASE II WORTHINGTON RD DETOUR DETAIL
TMP-5	PHASE II COREY RD DETOUR DETAIL
TMP-6 THRU 7	SPECIAL SIGN DESIGNS



**TIP PROJECT: W-5702M**

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UNLESS ALL SIGNATURES COMPLETED



NGDOT DIVISION 2  
DIVISION TRAFFIC ENGINEERING  
1037 W.H. SMITH BLVD.  
GREENVILLE, NC 27834

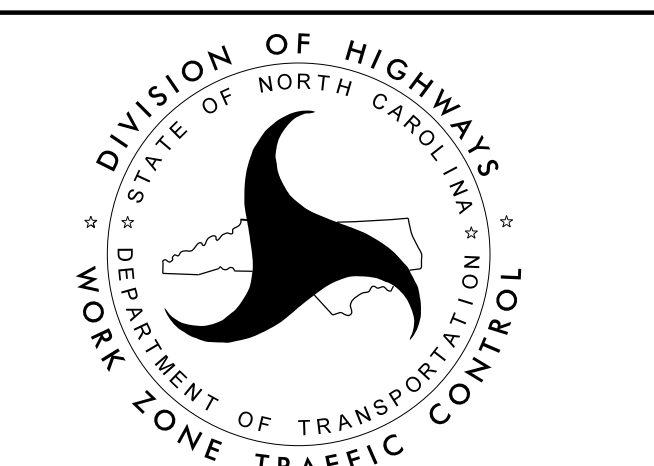
STEVEN J. HAMILTON, PE, CPM  
DIVISION TRAFFIC ENGINEER

PLANS PREPARED BY:

**stv** STV Engineers, Inc.  
1800 Perimeter Park Dr.  
Suite 225  
Morrisville, NC 27560  
NC License Number F-0991

PATRICK A. LIVINGSTON, PE  
PROJECT ENGINEER

WESTON D. MURPHY, PE  
PROJECT DESIGN ENGINEER



APPROVED: Weston Murphy  
DATE: 4/30/2024



4/30/2024  
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# 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 ADVANCED WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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 - TYPE III
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKIERS - PERMANENT AND TEMPORARY
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

# LEGEND

## GENERAL

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

- WORK AREA
- REMOVAL
- TEMPORARY PAVEMENT

## 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

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS
- EXISTING MARKING SYMBOLS

## DRAINAGE

- PROPOSED PIPE CONSTRUCTION
- PREVIOUSLY CONSTRUCTED PIPE

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DocuSigned by:  
 APPROVED: *Weston Murphy* DATE: 4/30/2024

**ROADWAY STANDARD  
DRAWINGS & LEGEND**

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# GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE ROADWAY PLANS AND STANDARD 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 IN PHASE 1 AS FOLLOWS:

ROAD NAMES	DAY AND TIME RESTRICTIONS
SR 1711/WORTHINGTON RD. (-L-)	MONDAY THRU FRIDAY
SR 1709/COREY RD. (-Y-)	6:00 A.M TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M.

## HOLIDAYS & EVENTS

- FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 6:00 AM DECEMBER 31ST AND 9:00 AM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN UNTIL 9:00 AM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 9:00 AM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 9:00 AM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 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 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 9:00 AM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 PM TUESDAY AND 9:00 AM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 PM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 AM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

## LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.
- 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 WITHIN A LANE OF TRAVEL OF AN UNDIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC MANAGEMENT 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.
- DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

## PAVEMENT EDGE DROP OFF REQUIREMENTS

- BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPEN 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.

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

## TRAFFIC PATTERN ALTERATIONS

- NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION. IN ORDER TO HAVE TIME TO ADEQUATELY REROUTE SCHOOL BUSES, CONTACT PATSY HUDSON, PITT COUNTY SCHOOLS DIRECTOR OF TRANSPORTATION AT 252-756-1424 (EXT. 7158) AND ANTHONY BOWERS, TOWN OF WINTERVILLE, AT 252-756-2221 (EXT. 2348) AT LEAST ONE MONTH PRIOR TO ROAD CLOSURE. (SEE ACCESS REQUIREMENTS, SECTION T FOR EMERGENCY SERVICES CONTACT)
- STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOURS AND TYPE III BARRICADES AT THE PROJECT LIMITS. CONTACT JIM EVANS AT (252) 439-2829 TWO WEEKS PRIOR TO CLOSING THE ROAD FOR DETOUR INSTALLATION.

## SIGNING

- 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.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORING TO THE ROADWAY STNADARD DRAWINGS AND TRAFFIC CONTROL PLANS. PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- 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.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

## TRAFFIC CONTROL DEVICES

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

## ACCESS REQUIREMENTS

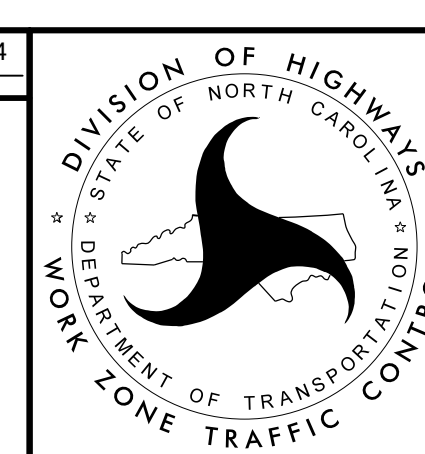
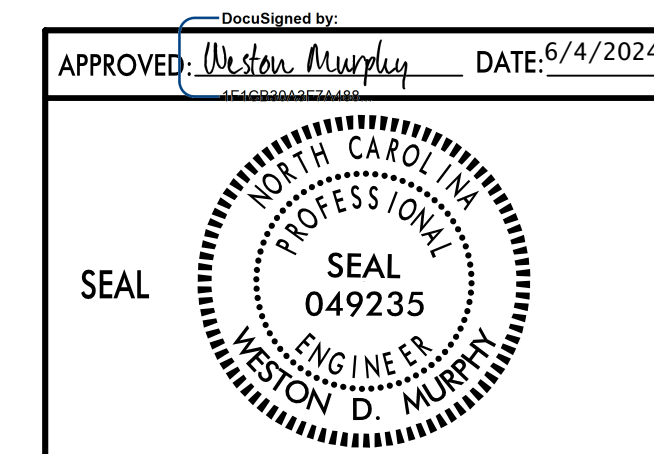
- CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO EACH BUSINESS AND RESIDENCE. SIDEWALKS, BARRICADES, SIGNS, ETC. SHALL BE UTILIZED TO SAFELY DIRECT PEDESTRAIN TRAFFIC THROUGH THE WORK ZONE. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT AND THERE WILL BE NO PAY ITEM FOR THIS WORK. THE CONTRACTOR MUST COORDINATE WITH THE PROPERTY/BUSINESS OWNERS AND GIVE AT LEAST 48 HOURS NOTICE PRIOR TO DETOURING OR CLOSING ANY DRIVEWAY WITHIN PROJECT LIMITS.
- CONTRACTOR SHALL COORDINATE WITH ALL EMERGENCY SERVICES (30) DAYS PRIOR TO START OF CONSTRUCTION. ACCESS SHALL BE MAINTAINED FOR ALL EMERGENCY VEHICLES THROUGH THE CONSTRUCTION AREA FOR THE DURATION OF THE ROAD CLOSURES. CONTACT RANDY GENTRY, PITT COUNTY EMERGENCY MANAGEMENT DIRECTOR, AT 252-902-3950 AT LEAST ONE MONTH PRIOR TO ROAD CLOSURE.

# MANAGEMENT STRATEGIES

PHASE I - TRAFFIC WILL BE MAINTAINED IN THE EXISTING TRAFFIC PATTERN AS THE ROUNDABOUT AND APPROACHES ARE CONSTRUCTED, AWAY FROM TRAFFIC.

PHASE II - UTILIZING ROAD CLOSURES AND OFFSITE DETOURS CONSTRUCT THE ROUNDABOUT APPROACHES AND REMAINDER OF THE PROJECT. PLACE MONOLITHIC CONCRETE ISLANDS, FINAL LAYER OF PAVEMENT, AND FINAL PAVEMENT MARKINGS. ONCE CONSTRUCTION IS COMPLETE OPEN TRAFFIC TO FINAL PATTERN.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



GENERAL NOTES & MANAGEMENT STRATEGIES

## PHASING NOTES

**NOTE:**

- CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS FOR ALL PHASES WITHIN THE PROJECT LIMITS AND COORDINATE AS NECESSARY WITH PROPERTY OWNERS.
- PHASES MAY BE COMBINED AT THE DISCRETION OF THE RESIDENT ENGINEER.

### PHASE I

**STEP 1**

INSTALL WORKZONE ADVANCE WARNING SIGNS IN ACCORDANCE WITH NCDOT RSD NO. 1101.01 SHEET 3 OF 3.

**STEP 2**

AWAY FROM TRAFFIC PERFORM THE FOLLOWING AS SHOWN ON TMP-3. TRAFFIC TO REMAIN ON THE EXISTING ALIGNMENT DURING THIS CONSTRUCTION.

CONSTRUCT THE PROPOSED ROUNDABOUT, ROADWAY APPROACHES, AND DRAINAGE STRUCTURES TO THE EDGE OF EXISTING ROADWAY UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM THE FOLLOWING STATION RANGES:

- L- STA. 18+50+/- TO 22+70+/- LT
- RA- STA. 10+00.00 TO 13+45.54
- Y- STA. 15+35+/- TO 17+90+/-

### PHASE II

**STEP 1**

USING RSD 1101.02, SHEET 1 OF 19 AS NEEDED, INSTALL AND COVER TYPE III BARRICADES AND DETOUR SIGNAGE TO CLOSE THE FOLLOWING ROADS AS SHOWN ON TMP-4 THRU 5:

- WORTHINGTON ROAD (-L-)
- COREY ROAD (-Y-)

**STEP 2**

USING RSD 1101.03 SHEETS 1 AND 2 OF 9, UNCOVER DETOUR SIGNAGE AND SHIFT TRAFFIC ON -L- (WORTHINGTON RD.) AND -Y- (COREY RD) TO THE PROPOSED DETOURS AS SHOWN ON TMP-4 AND TMP-5.

A) COMPLETE THE CONSTRUCTION OF PROPOSED DRAINAGE, INCIDENTAL DRIVEWAYS, GUARDRAIL AND ROADWAY UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM THE FOLLOWING STATION RANGES:

- L- STA. 16+94.00 TO -L- STA. 25+38.00
- Y- STA. 13+30.00 TO -Y- STA. 18+60+/-

B) REMOVE EXISTING PAVEMENT ON WORTHINGTON RD. (-L-) AND COREY RD. (-Y-) AS SHOWN IN THE ROADWAY PLANS.

C) CONTRACTOR SHALL COORDINATE WITH AND MAINTAIN THE ABILITY FOR EMERGENCY VEHICLES TO PASS THROUGH THE CONSTRUCTION ZONE AT ALL TIMES. CONTRACTOR TO USE INCIDENTAL STONE BASE AS NEEDED.

**STEP 3**

KEEPING THE DETOURS IN PLACE WITH WORTHINGTON RD AND COREY ROAD CLOSED. PLACE MONOLITHIC CONCRETE ISLANDS, FINAL LAYER OF SURFACE COURSE, AND FINAL PAVEMENT MARKINGS AND MARKERS FOR THE FOLLOWING STATION RANGES:

- L- STA. 17+88.00 TO STA. 24+80.00
- Y- STA. 14+45.00 TO STA. 17+90.00
- RA- STA. 10+00.00 TO STA. 13+45.57

USING RSD 1101.02, SHEET 1 OF 19 AS NEEDED, REMOVE ALL TRAFFIC CONTROL DEVICES AND DETOUR SIGNAGE. OPEN WORTHINGTON RD. AND COREY RD. TO FINAL TRAFFIC PATTERN.

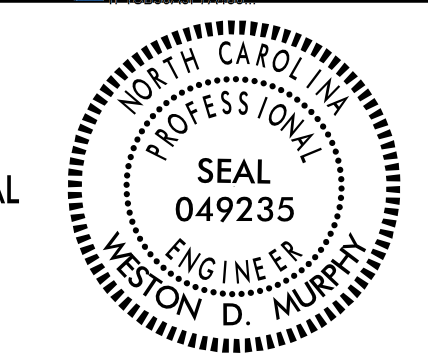
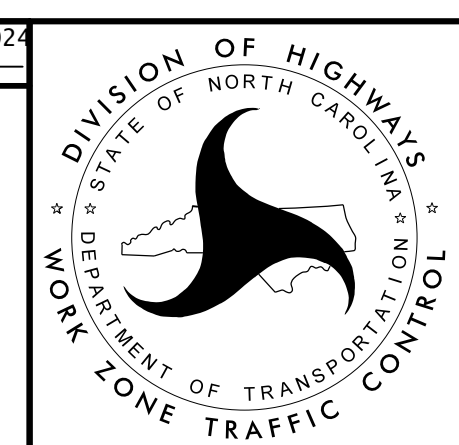
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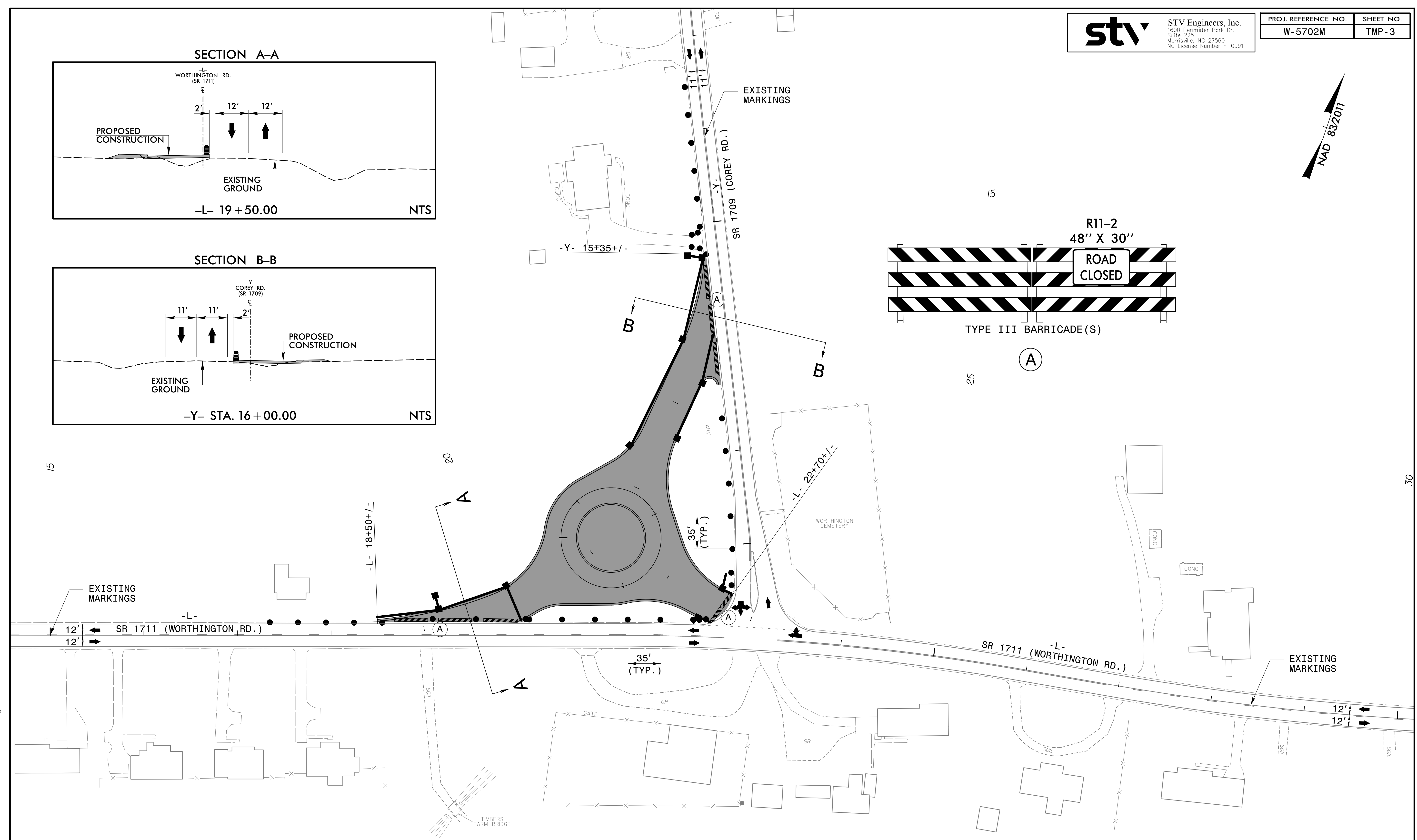
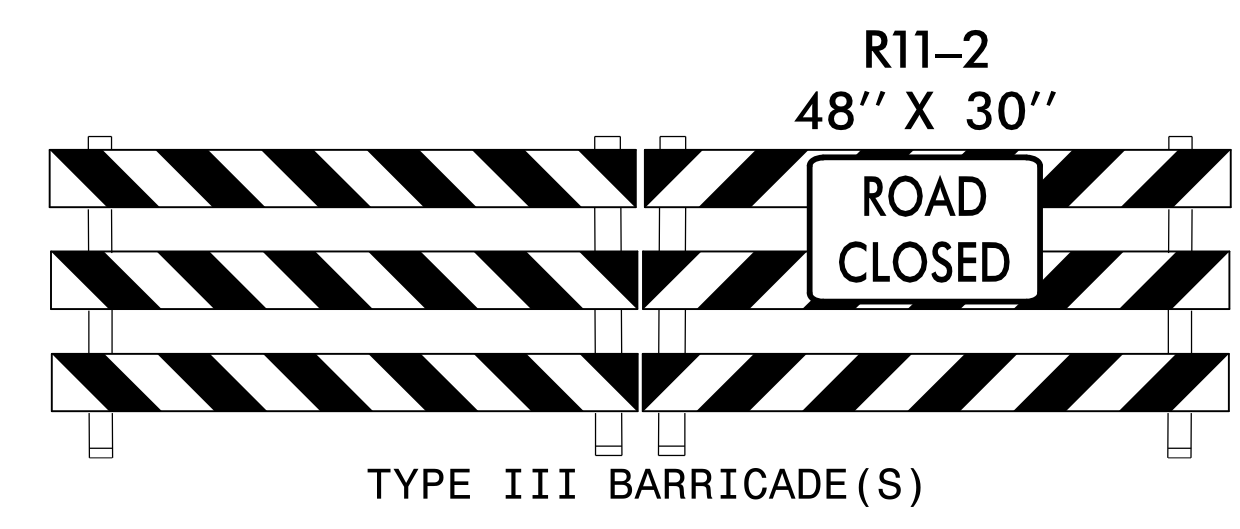
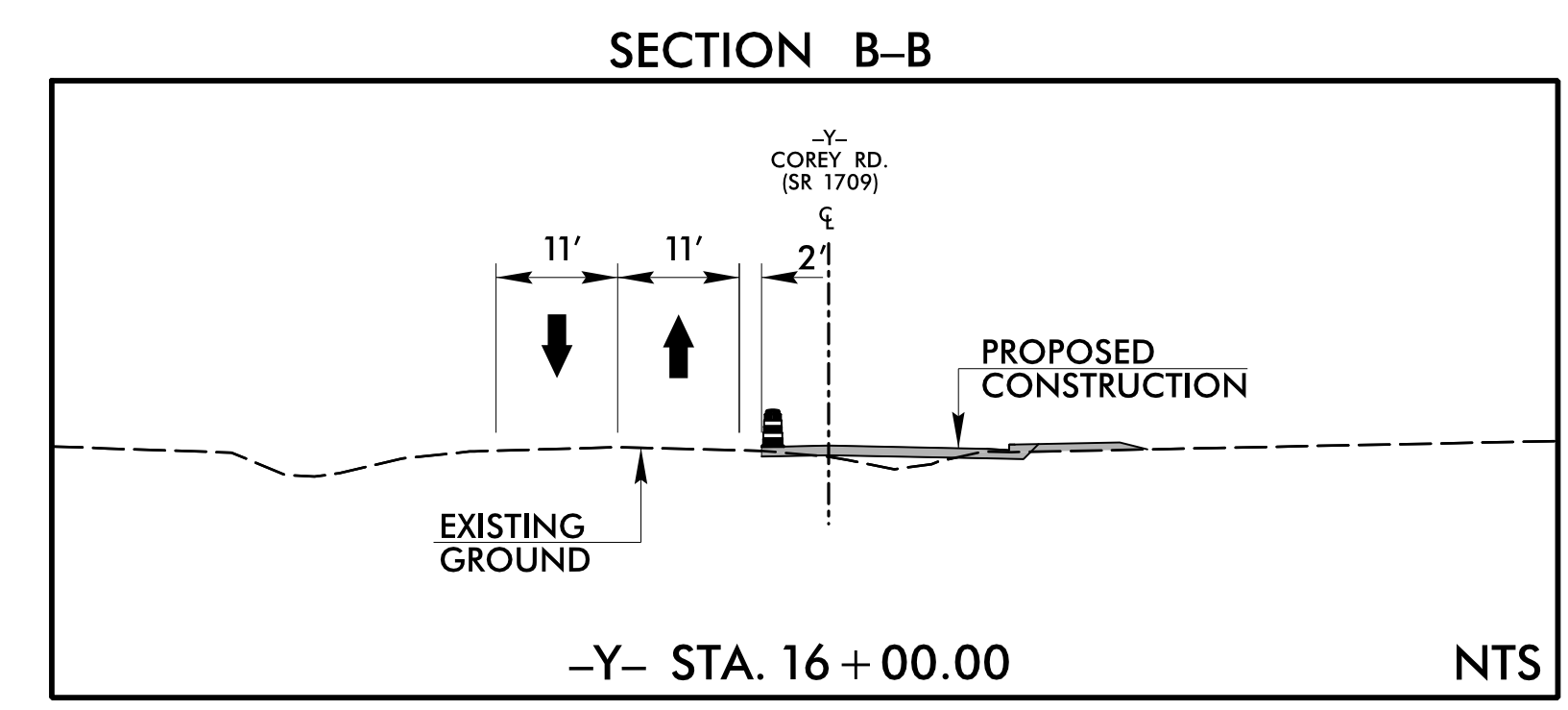
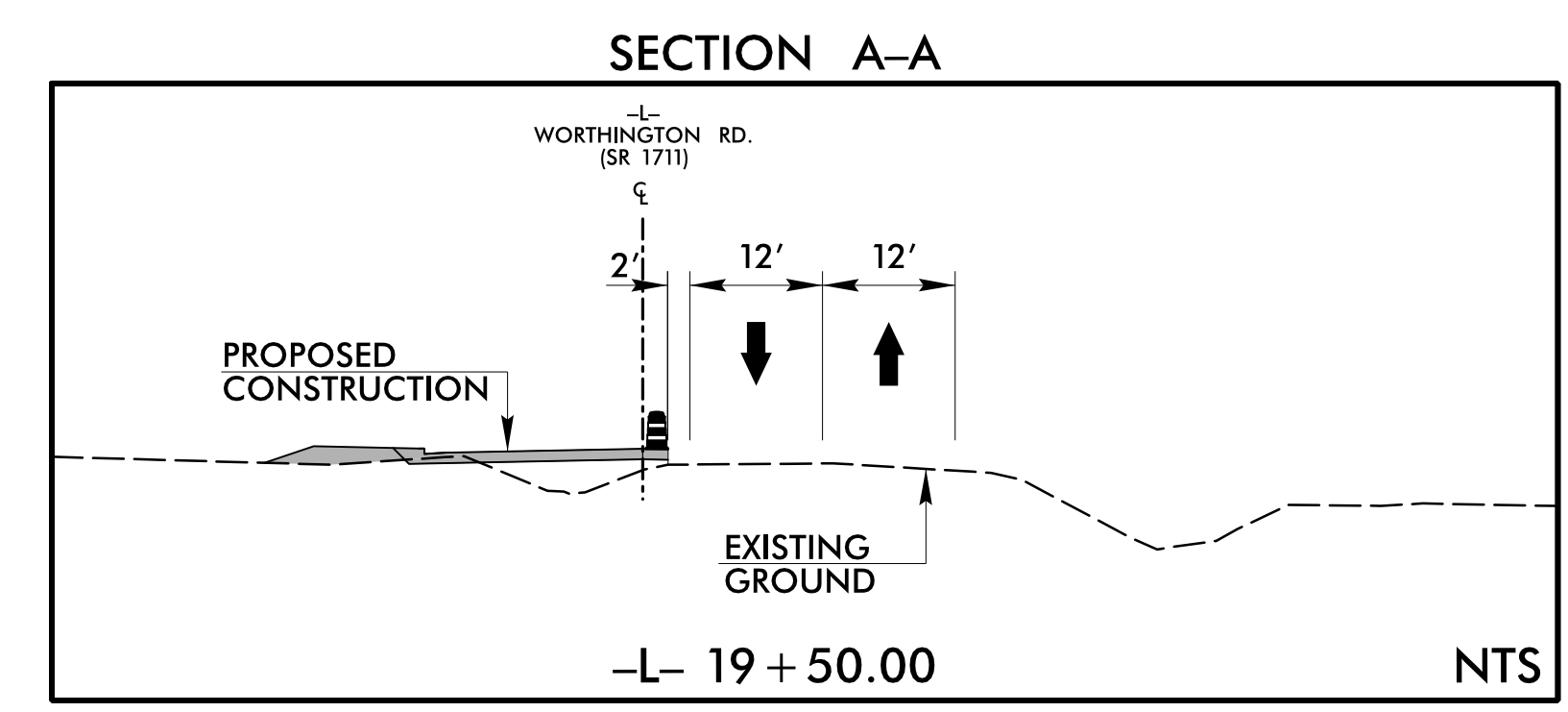
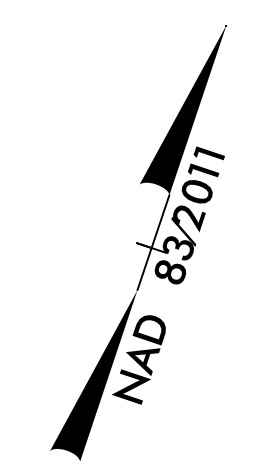
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**TEMPORARY TRAFFIC  
 CONTROL PHASING**



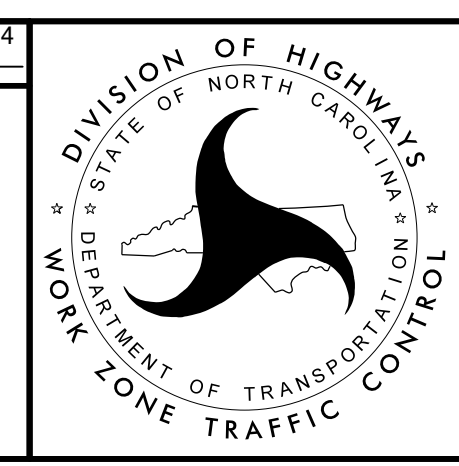


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APPROVED: *Weston Murphy* DATE: 4/30/2024

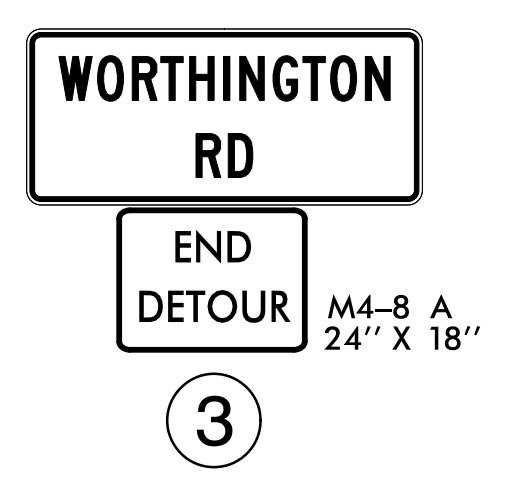
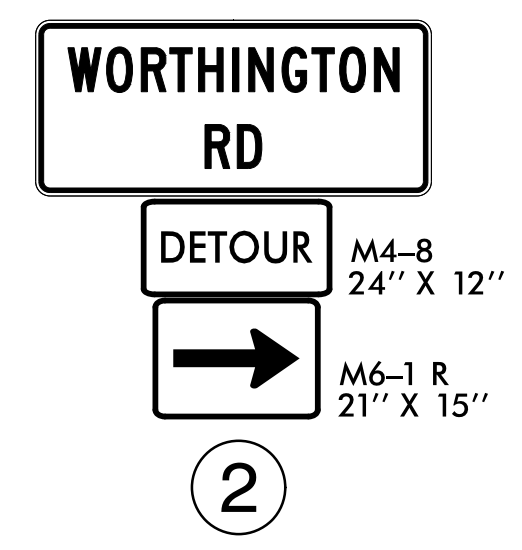
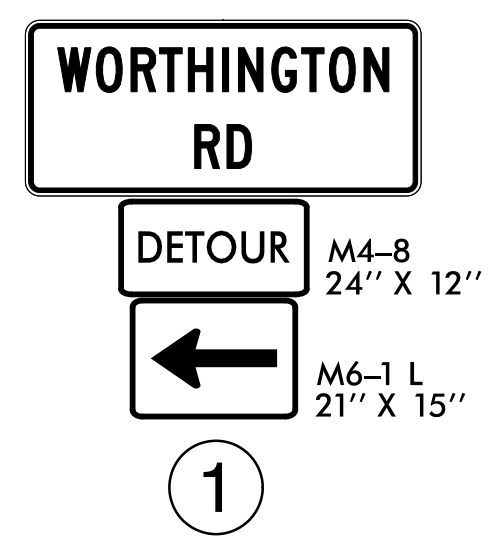
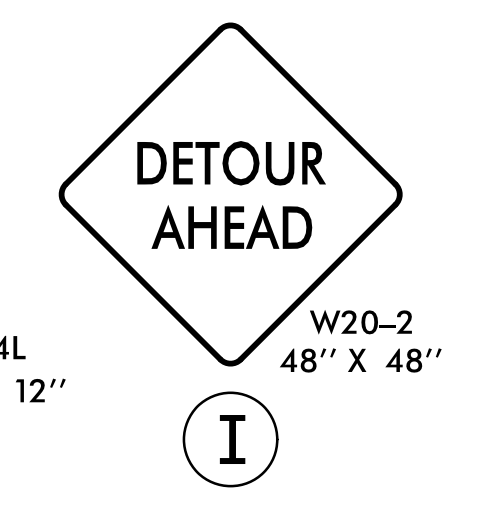
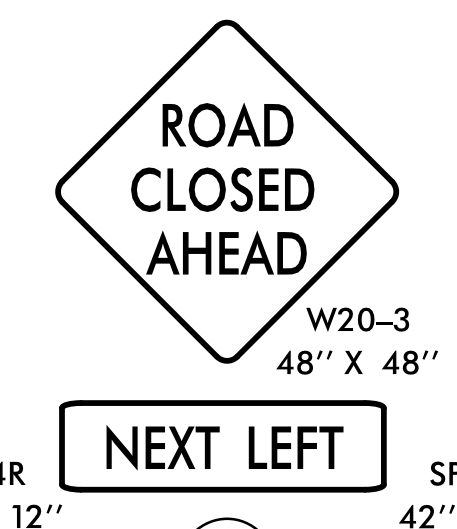
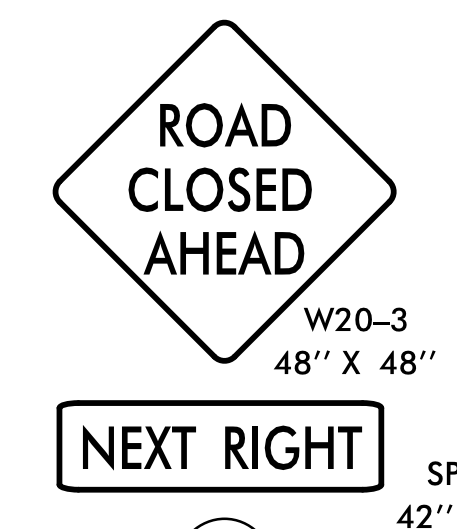
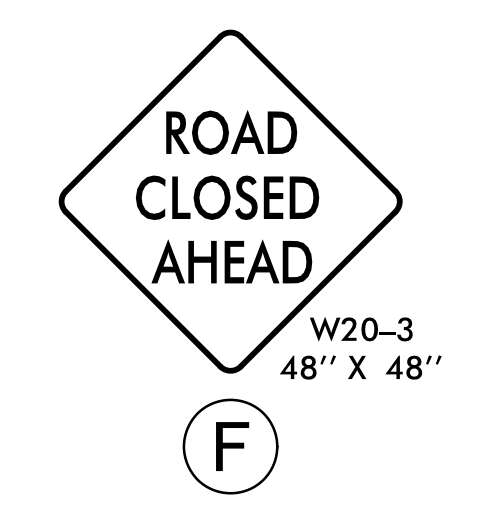
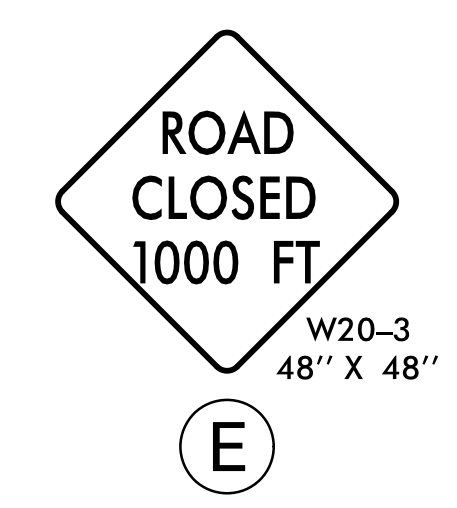
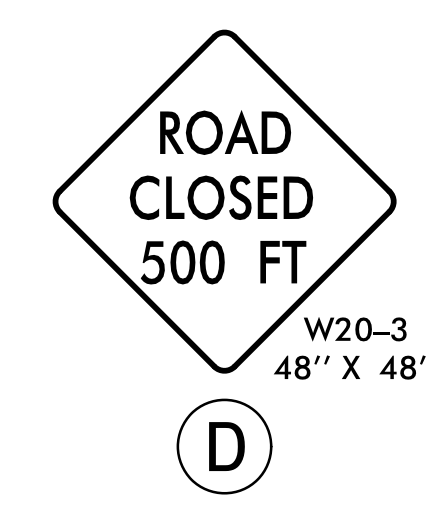
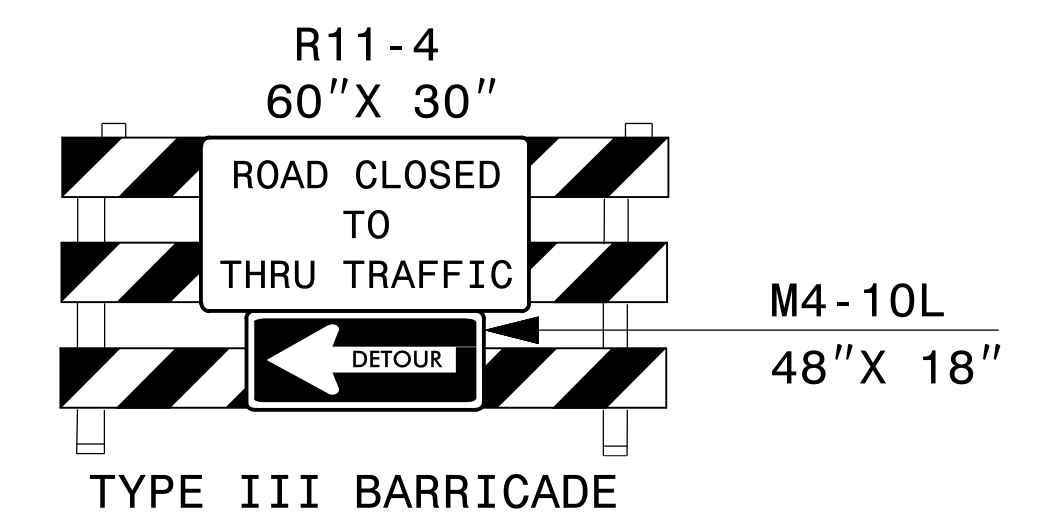
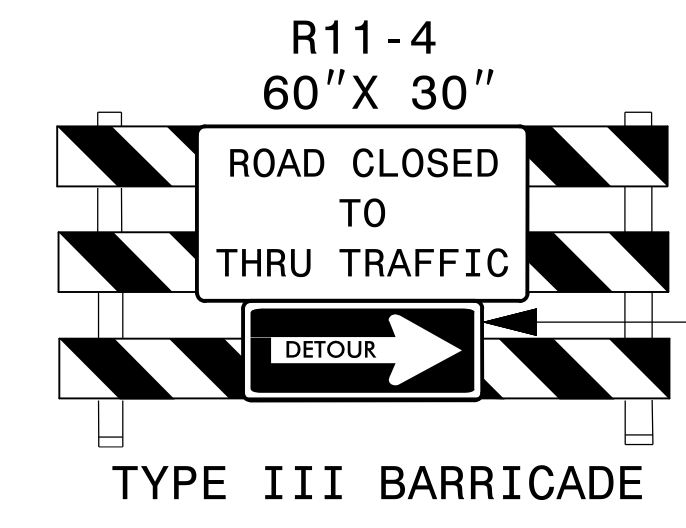
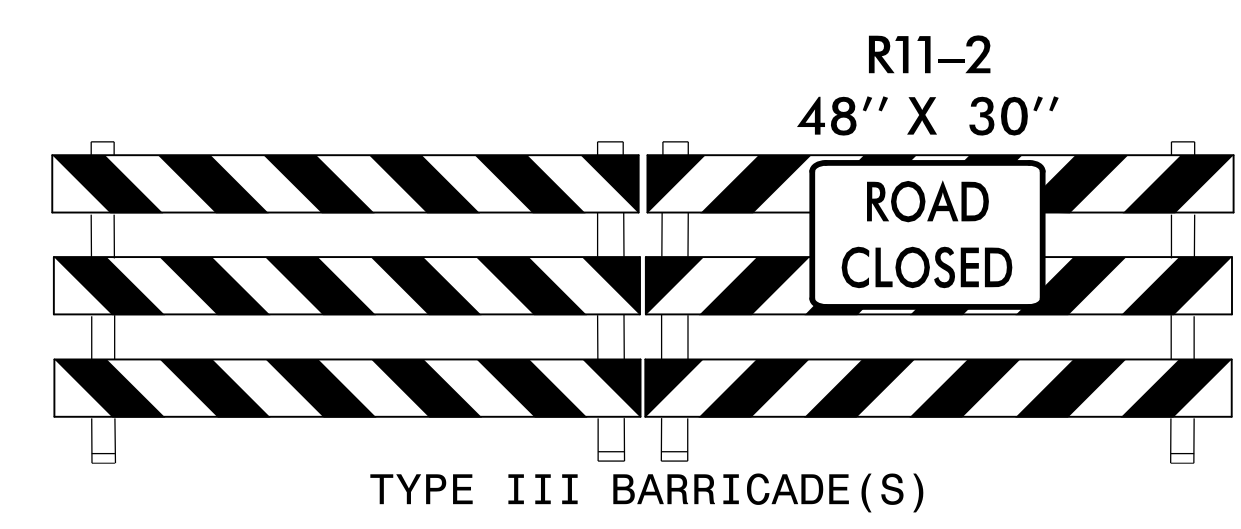
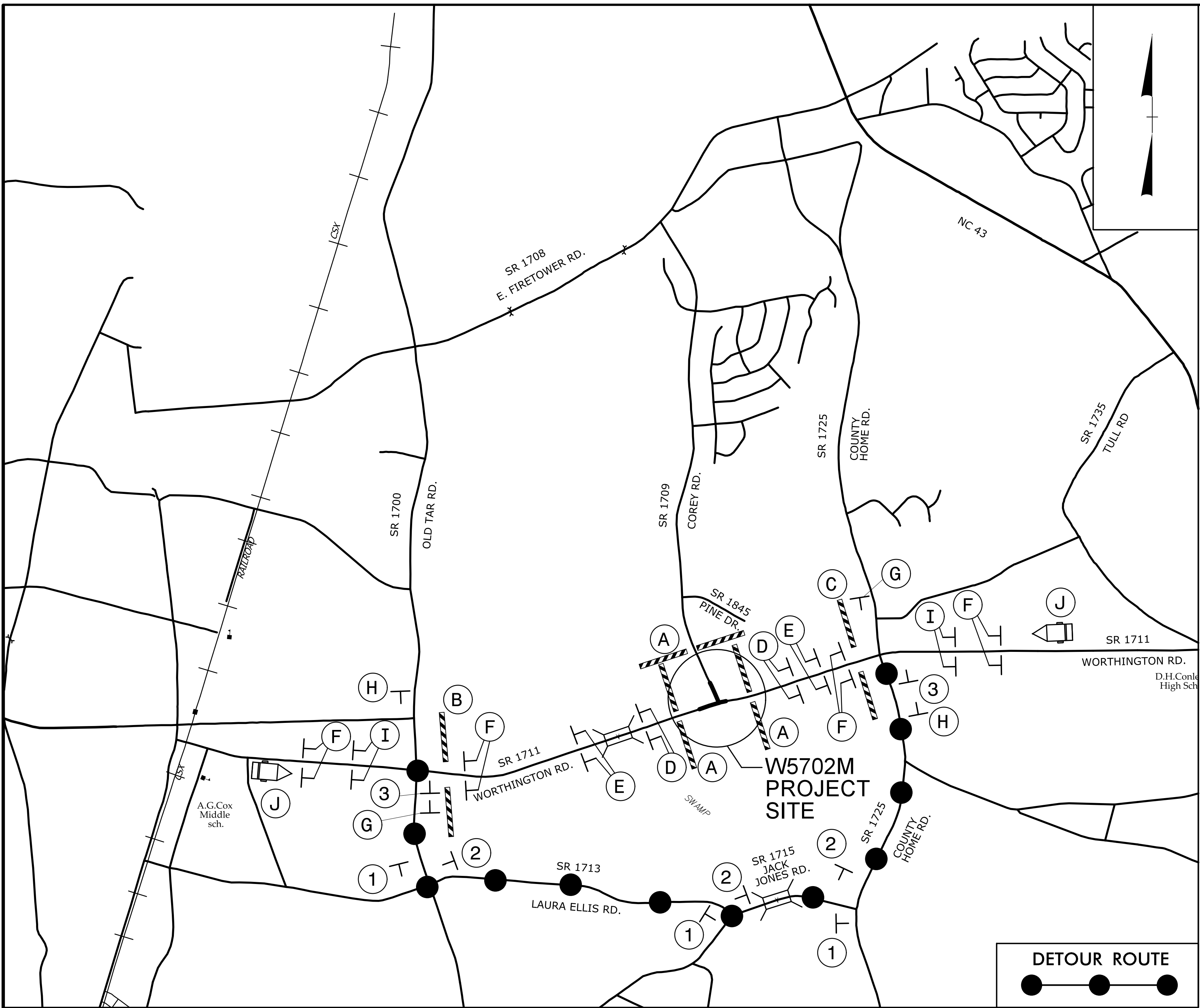
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**TEMPORARY TRAFFIC CONTROL PHASE I STEP 2**

4/30/2024  
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MESSAGE PRIOR TO CLOSURE:

MESSAGE NO. 1	MESSAGE NO. 2
WORTHING WILL BE CLOSED	STARTING (DAY) (TIME)
CHANGEABLE MESSAGE SIGN	

MESSAGE DURING CLOSURE:

MESSAGE NO. 1	MESSAGE NO. 2
WORTHING CLOSED 2 MILES	FOLLOW POSTED DETOUR
CHANGEABLE MESSAGE SIGN	

NOTES:

TRAFFIC CONTROL DEVICES (A) THRU (J) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.

TRAFFIC CONTROL DEVICES (1) THRU (3) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION.

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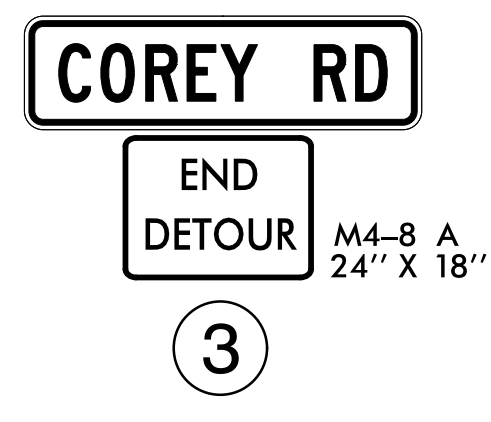
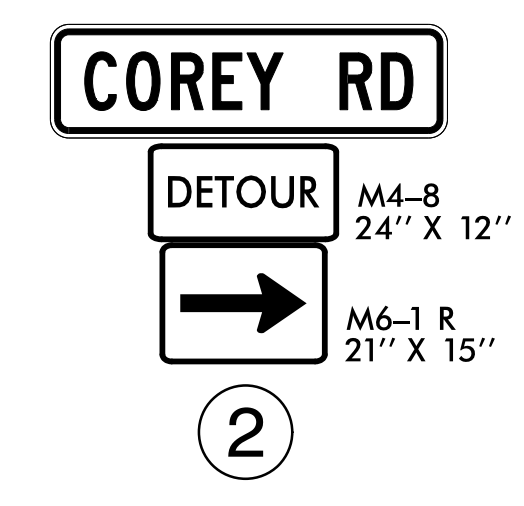
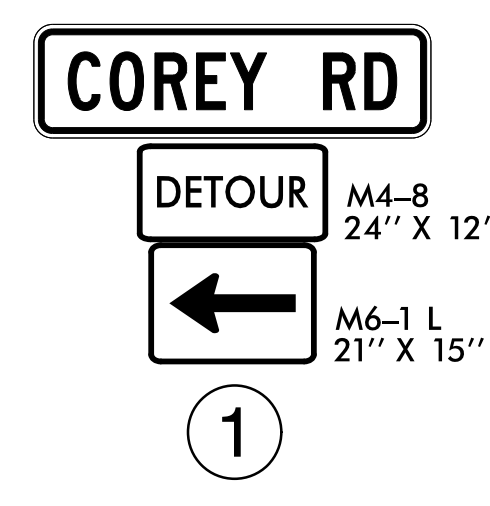
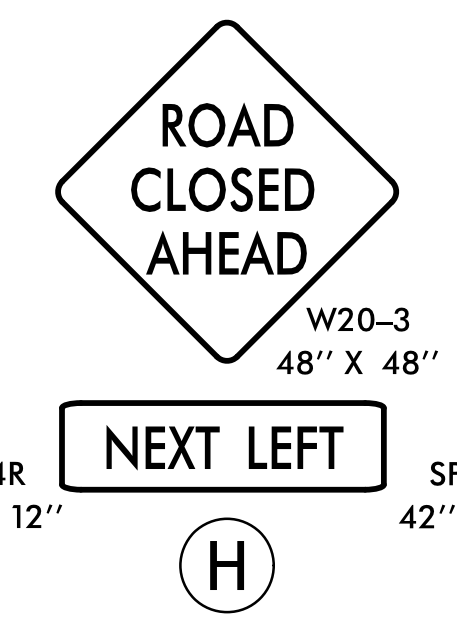
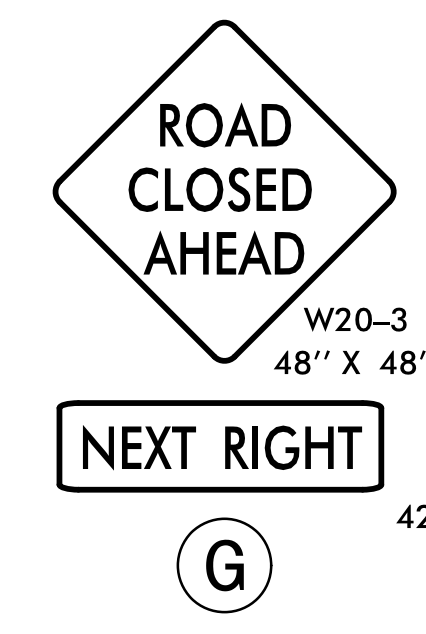
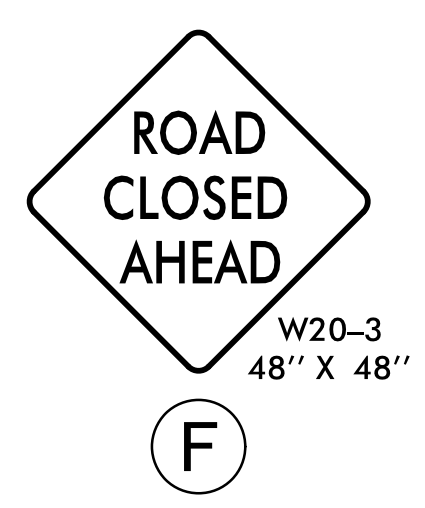
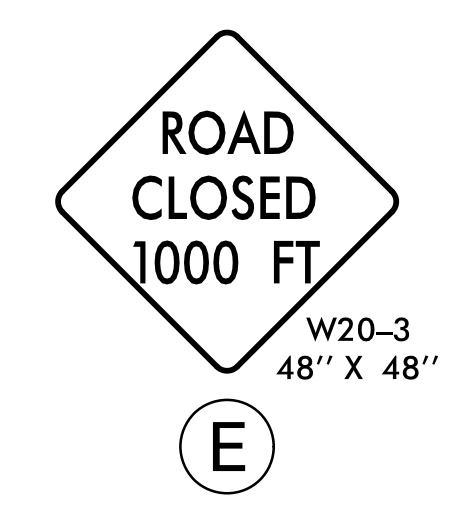
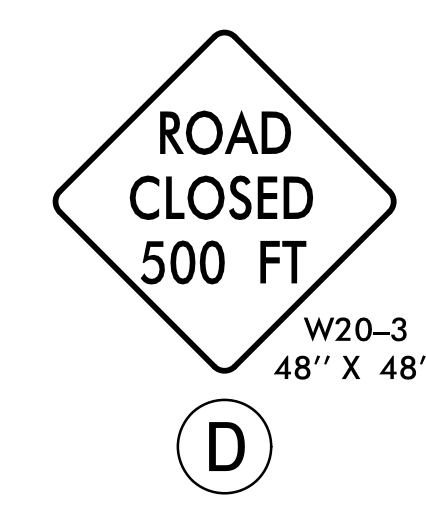
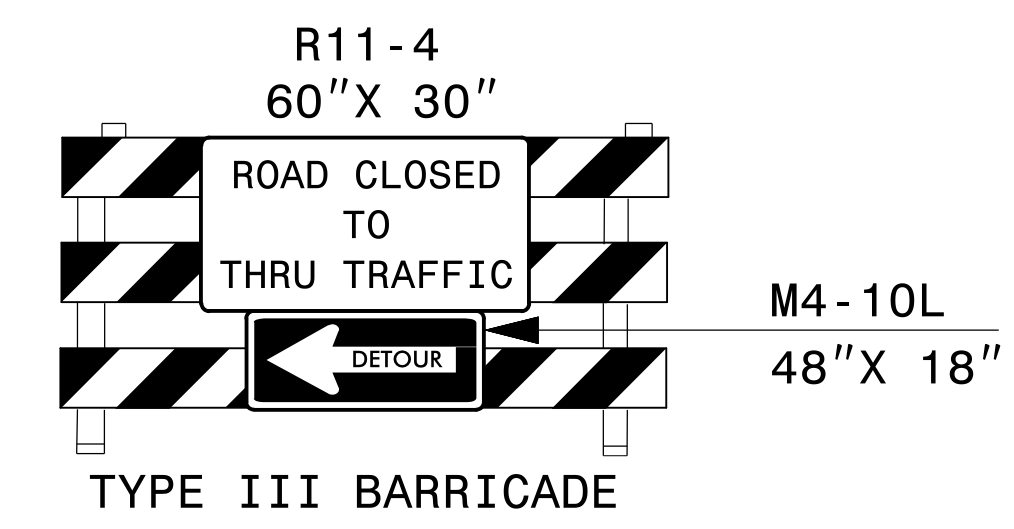
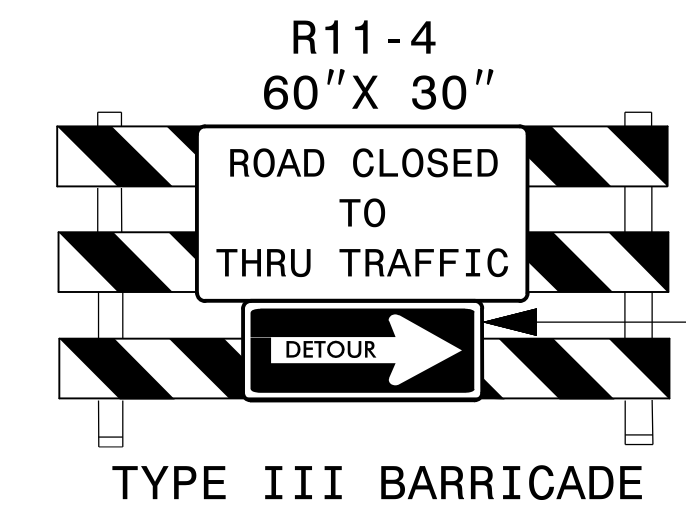
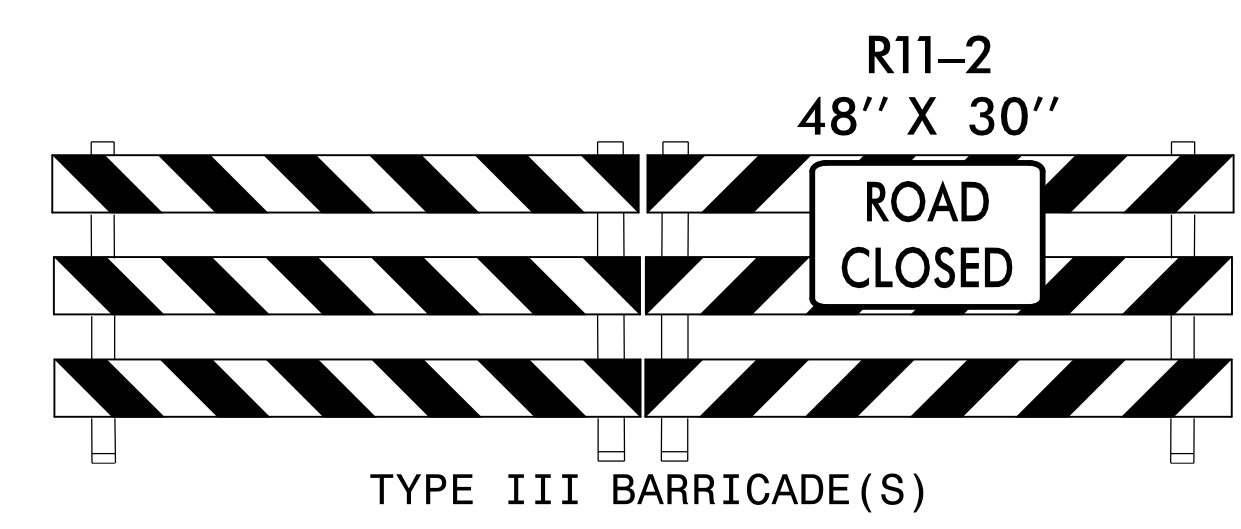
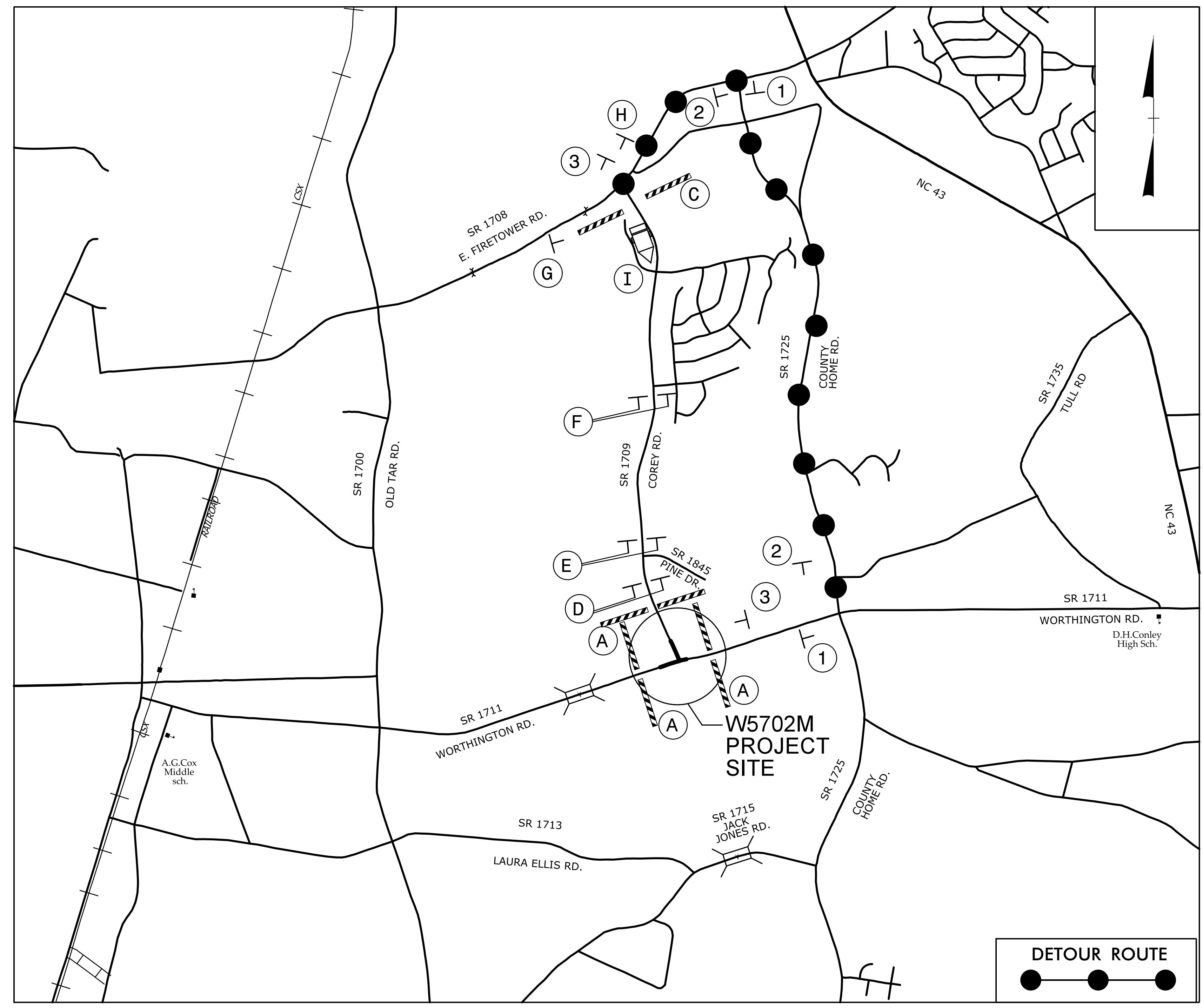
APPROVED: *Weston Murphy* DATE: 4/30/2024

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TEMPORARY TRAFFIC CONTROL PHASE II  
WORTHINGTON RD  
DETOUR DETAIL

4/30/2024  
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 Murphy,WD





**MESSAGE PRIOR TO CLOSURE:**

MESSAGE NO. 1	MESSAGE NO. 2
COREY RD WILL BE CLOSED	STARTING (DAY) (TIME)
CHANGEABLE MESSAGE SIGN	

**MESSAGE DURING CLOSURE:**

MESSAGE NO. 1	MESSAGE NO. 2
COREY RD CLOSED 2 MILES	FOLLOW POSTED DETOUR
CHANGEABLE MESSAGE SIGN	

**NOTES:**

TRAFFIC CONTROL DEVICES (A) THRU (I) SHALL BE INSTALLED ACCORDING TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9.  
TRAFFIC CONTROL DEVICES (1) THRU (3) SHALL BE INSTALLED AS PER ENGINEER'S INSTRUCTION.

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

APPROVED: Weston Murphy DATE: 6/14/2024

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049235 WESTON D. MURPHY

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**TEMPORARY TRAFFIC CONTROL PHASE II COREY RD DETOUR DETAIL**

6/14/2024 I:\TrafficControl\TCP\SHEETS\W5702M\_TMP\_5\_Phase2 - Corey Rd Detour.dgn Murphy,WD





**SIGN NUMBER:** I-2      **BACKG COLOR:** Orange  
**TYPE:** D      **COPY COLOR:** Black  
**QUANTITY:** See Plans

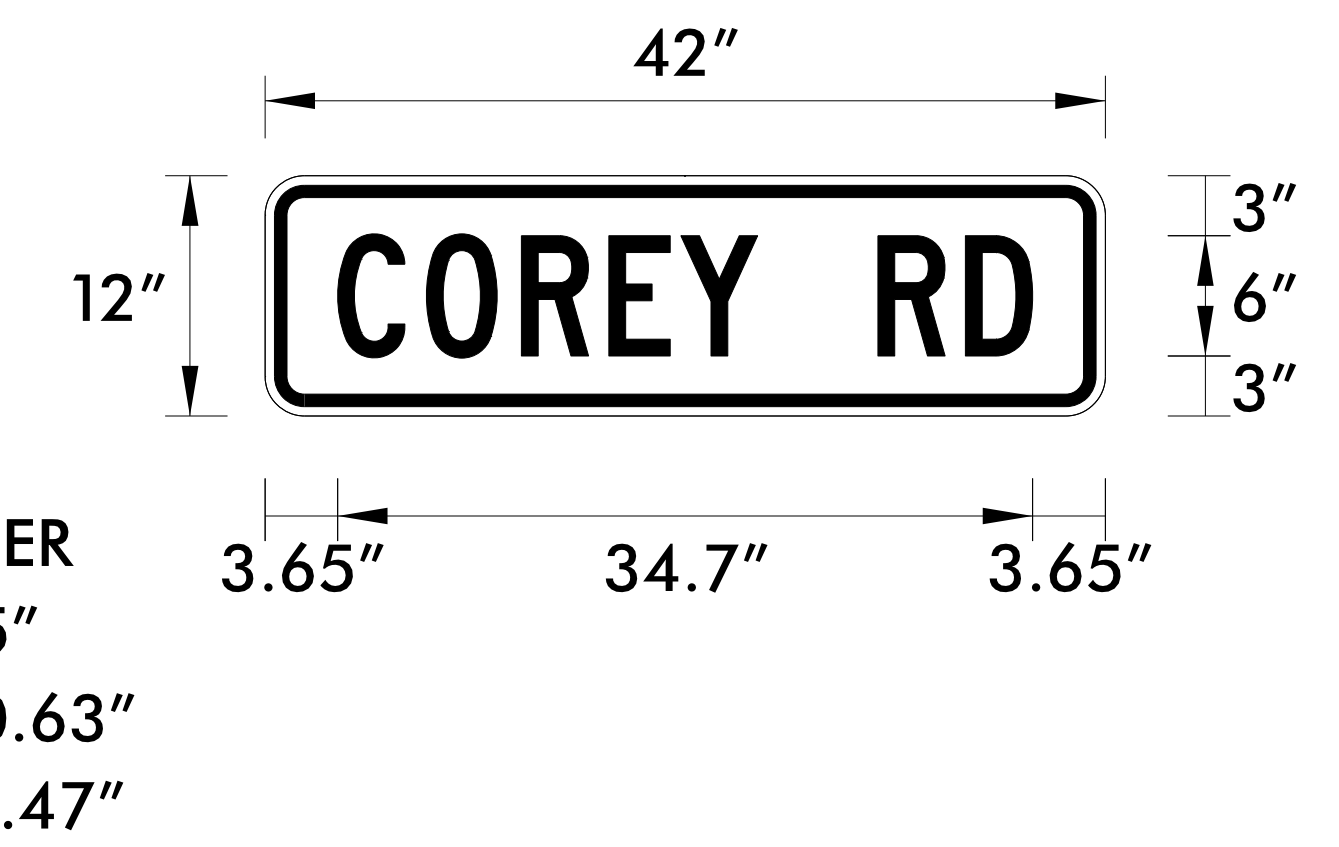
SYMBOL	X	Y	WID	HT

**SIGN WIDTH:** 42"  
**HEIGHT:** 12"  
**TOTAL AREA:** 3.5 Sq.Ft.

**BORDER TYPE:** FLUSH  
**RECESS:** 0.47"  
**WIDTH:** 0.63"  
**RADII:** 1.5"

**NO. Z BARS:**      **MAT'L:** 0.080" (2.0 mm) ALUMINUM  
**LENGTH:**

**DESIGN BY:** JCG      **CHECKED BY:** WDM  
**PROJECT ID:** W-5702M      **DIV:** 2      **DATE:** Apr 22, 2024



Spacing Factor is 1 unless specified otherwise

**USE NOTES:** 1,2  
 1. Legend and border shall be direct applied encapsulated lens reflective sheeting.  
 2. Background shall be NC Grade B fluorescent.

**LETTER POSITIONS**

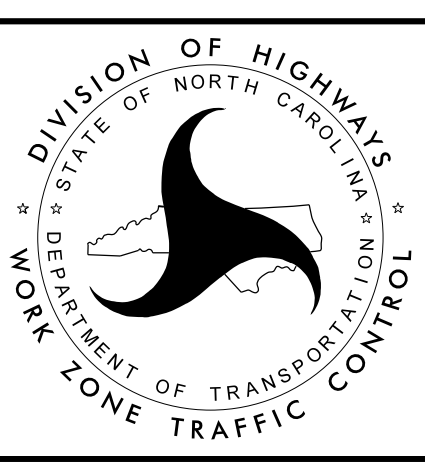
Letter positions are to the lower left corners										Series/Size
C	O	R	E	Y		R	D			Text Length
3.6	8.1	12.8	17.2	20.8	24.6	30.6	35			C 2000 / 6
										34.7

NORTH CAROLINA D.O.T. SIGN DETAIL

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

APPROVED: *Weston Murphy* DATE: 4/30/2024

DocuSigned by:  
 WESTON D. MURPHY  
 ENGINEER  
 SEAL 049235  
 NORTH CAROLINA PROFESSIONAL SEAL



**SPECIAL SIGN DESIGN**  
 COREY RD

4/30/2024  
 I:\TrafficControl\TCP\SHEETS\W5702M\_TMP\_7 (Corey Rd).dgn  
 MURPHY WD

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
W-5702M	PMP-1

**PLAN FOR PROPOSED  
PAVEMENT MARKING**

**PITT COUNTY**

**PROJECT: W-5702M**

**CONTRACT: DB00433**

**ROADWAY STANDARD DRAWINGS**

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

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORDS MESSAGES
1205.09	PAVEMENT MARKINGS - PAVEMENT MARKINGS-PAINTED ISLANDS
1205.14	PAVEMENT MARKINGS - PAVEMENT MARKINGS-ROUNDBABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

**GENERAL NOTES**

**PAVEMENT MARKING:**

- INSTALL PAVEMENT MARKINGS AND MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
COREY RD. (SR 1709)	THERMOPLASTIC	RAISED
WORTHINGTON RD. (SR 1711)	THERMOPLASTIC	RAISED
- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVE/REPLACE ANY CONFLICTING PAVEMENT MARKINGS.
- REPLACE ANY PAVEMENT MARKINGS BEYOND THE PROJECT LIMITS DAMAGED BY THE CONTRACTORS' OPERATIONS DURING CONSTRUCTION.

**PAVEMENT MARKING SCHEDULE**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<u>THERMOPLASTIC (4",90 MILS)</u>		<u>THERMOPLASTIC (24",90 MILS)</u>
T1	WHITE EDGELINE	T61	WHITE STOPBAR
T10	YELLOW EDGELINE		<u>THERMOPLASTIC (90 MILS)</u>
T13	YELLOW DOUBLE CENTER	T103	24" YIELD LINE TRIANGLE
	<u>THERMOPLASTIC (8",90 MILS)</u>		<u>MARKERS</u>
T40	WHITE GORE LINE	MA	PERMANENT RAISED MARKER (YELLOW & YELLOW)
T42	YELLOW DIAGONAL	MB	PERMANENT RAISED MARKER (CRYSTAL & RED)
T45	3' WHITE MINI SKIP 3' SPACING		


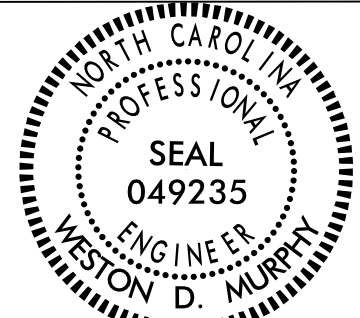
**INDEX OF SHEETS**

SHEET NO.	TITLE
PMP - 1	PAVEMENT MARKING PLAN COVER SHEET
PMP - 2	PAVEMENT MARKING DETAIL SHEET

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.		
4685000000	1205	3087	LF
4695000000	1205	339	LF
4697000000	1205	15	LF
4725000000	1205	3	EA
4900000000	1251	47	EA

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

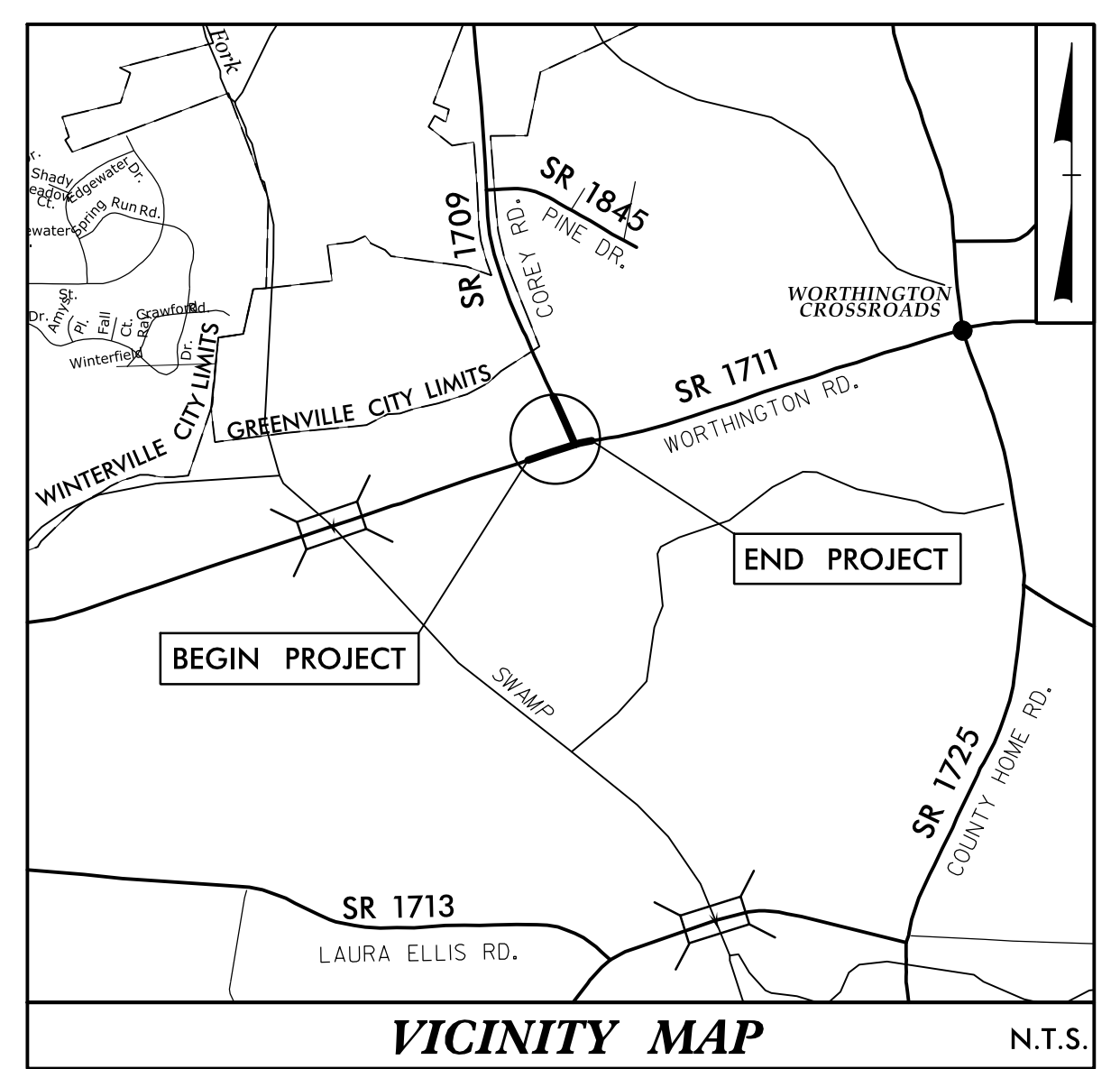
APPROVED:  DATE: 4/25/2024	PLAN PREPARED FOR N.C.D.O.T. BY: STV ENGINEERS, INC.
SEAL 	PATRICK A. LIVINGSTON, PE PROJECT ENGINEER WESTON D. MURPHY, PE DESIGN ENGINEER DOUGLAS S. MOORE, PE DESIGN ENGINEER





STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702M	EC-1	8
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
W-5702M		P.E.	
W-5702M		RW & UTIL.	
W-5702M		CONST.	

**TIP PROJECT: W-5702M**



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

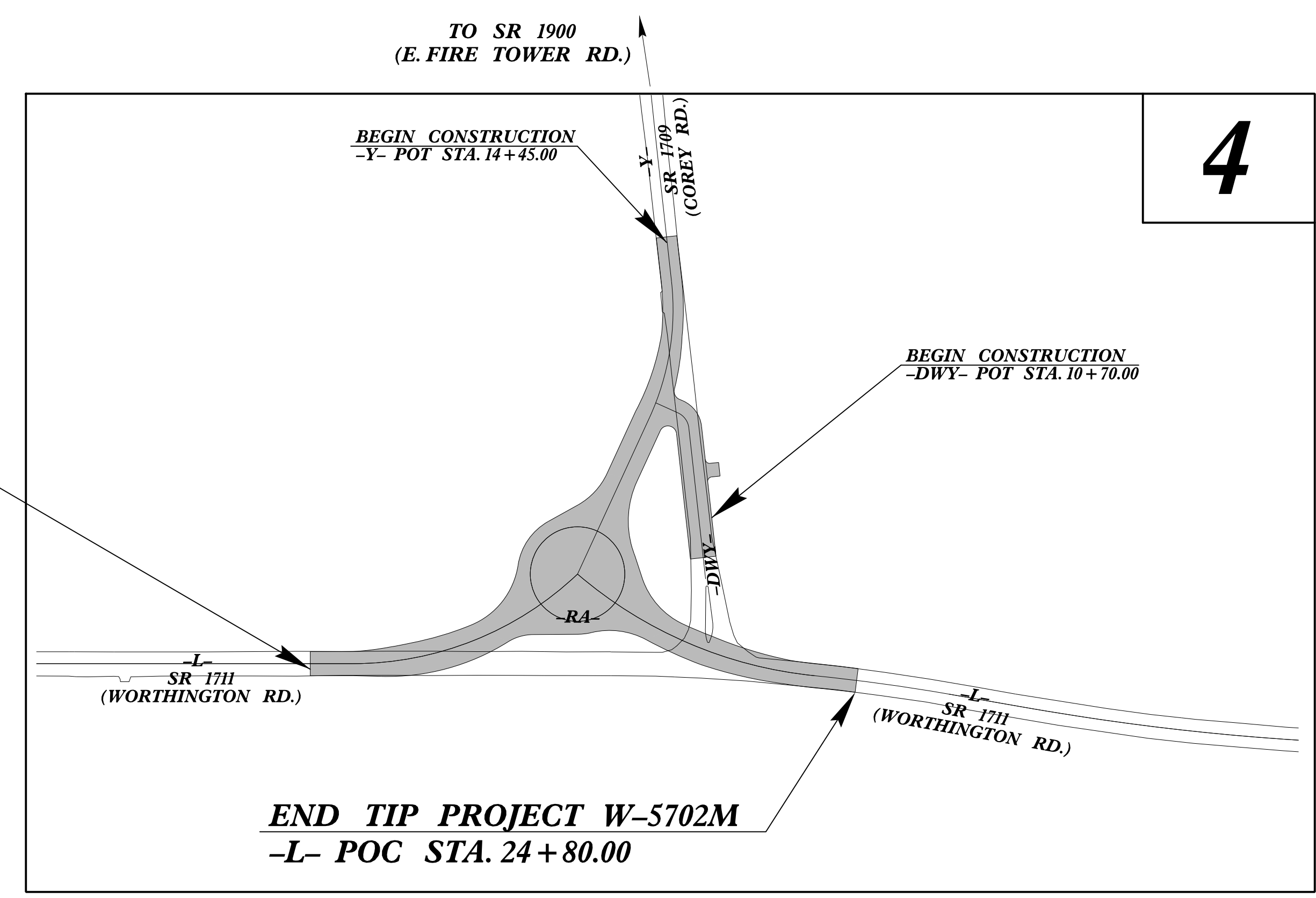
**PITT COUNTY**

INTERSECTION OF SR 1711 (WORTHINGTON RD.)  
AND SR 1709 (COREY RD.)  
TYPE OF WORK: GRADING, PAVING, & DRAINAGE



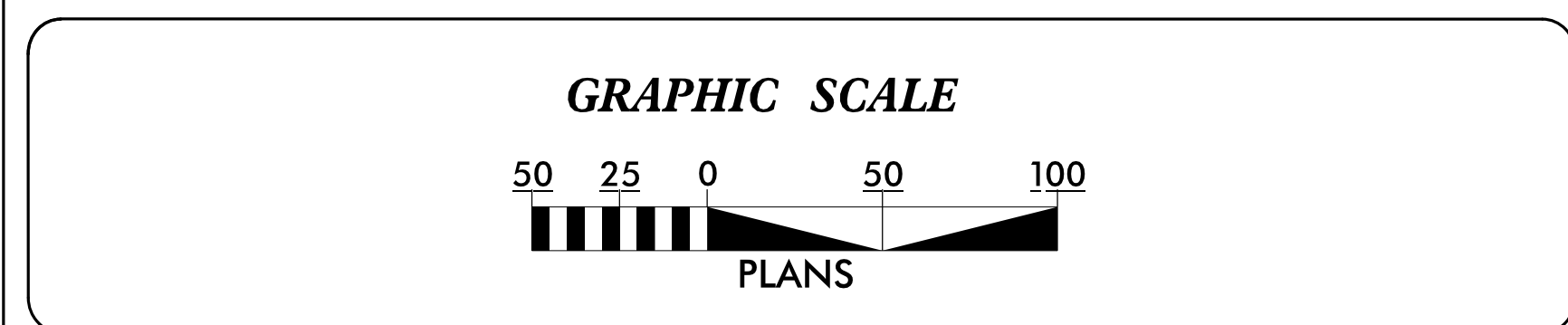
**BEGIN TIP PROJECT W-5702M**  
-L- POT STA. 17 + 88.00

TO SR 1700  
(OLD TAR RD.)



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

TO SR 1725  
(COUNTY HOME RD.)



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

STV Engineers, Inc.  
1600 Perimeter Park Dr.  
Suite 225  
Morrisville, NC 27560  
NC License Number F-0991

Prepared in the Office of:  
**STV ENGINEERS, INC**  
900 WEST TRADE STREET, SUITE 715  
CHARLOTTE, NC 28202

Designed by:  
**HALEY SMITH, EIT** 4688  
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.

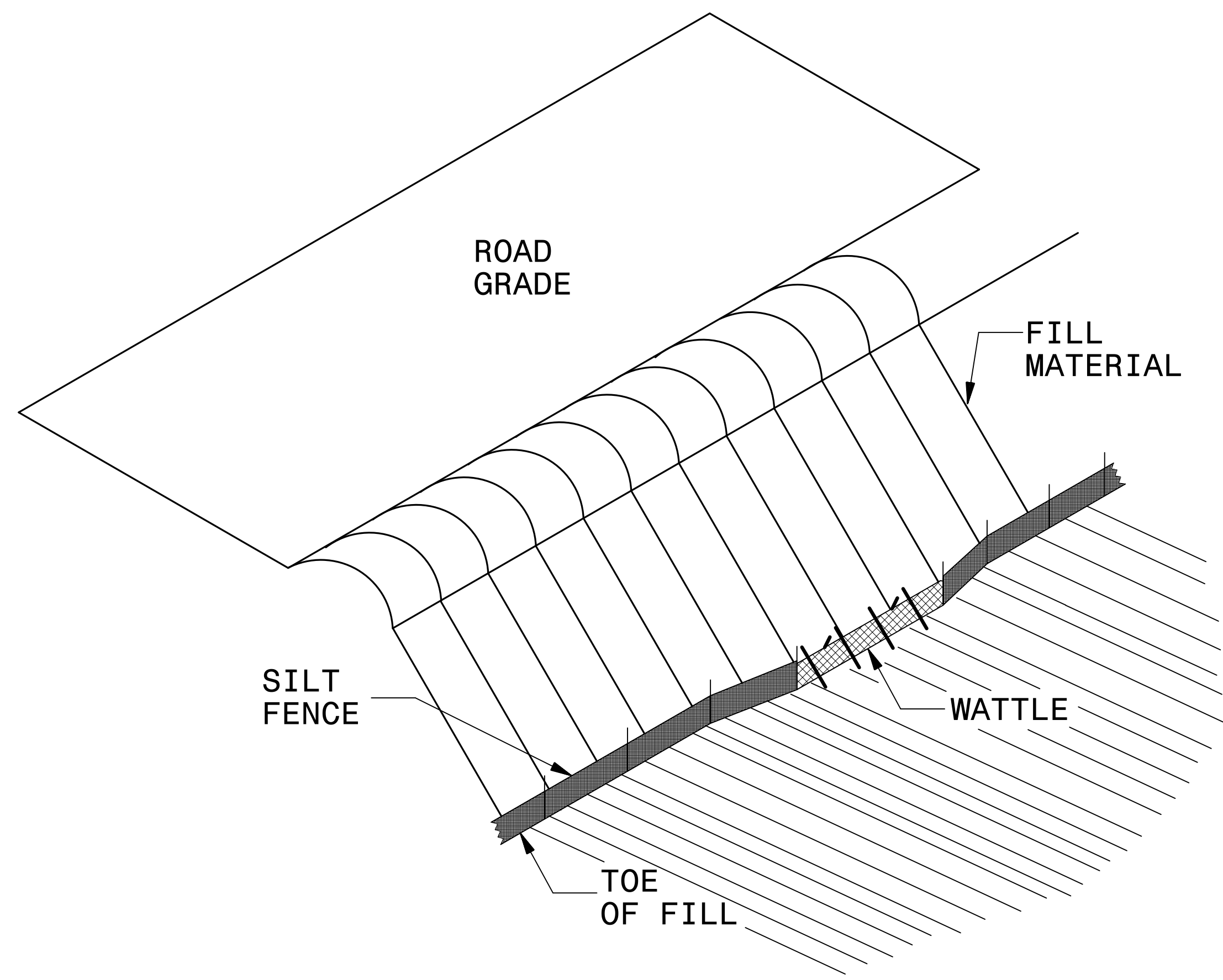


# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

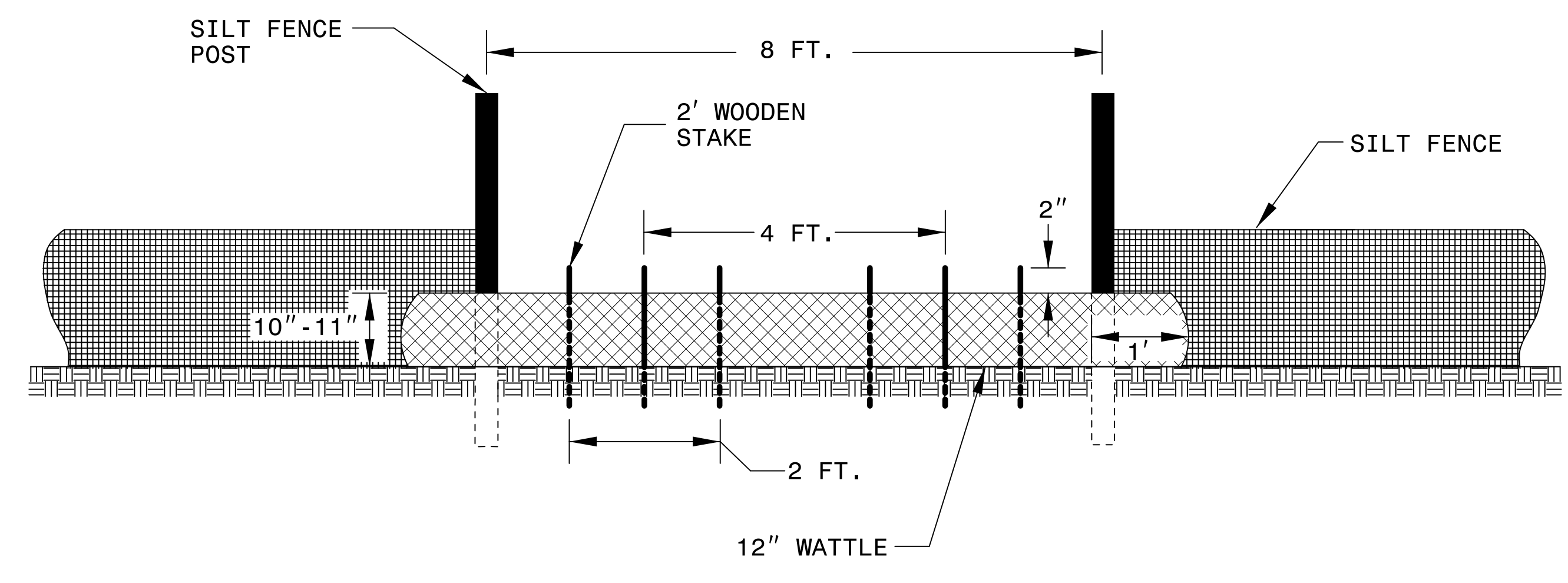
## EROSION & SEDIMENT CONTROL LEGEND

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		1636.02	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

# SILT FENCE COIR FIBER WATTLE BREAK DETAIL



**ISOMETRIC VIEW**

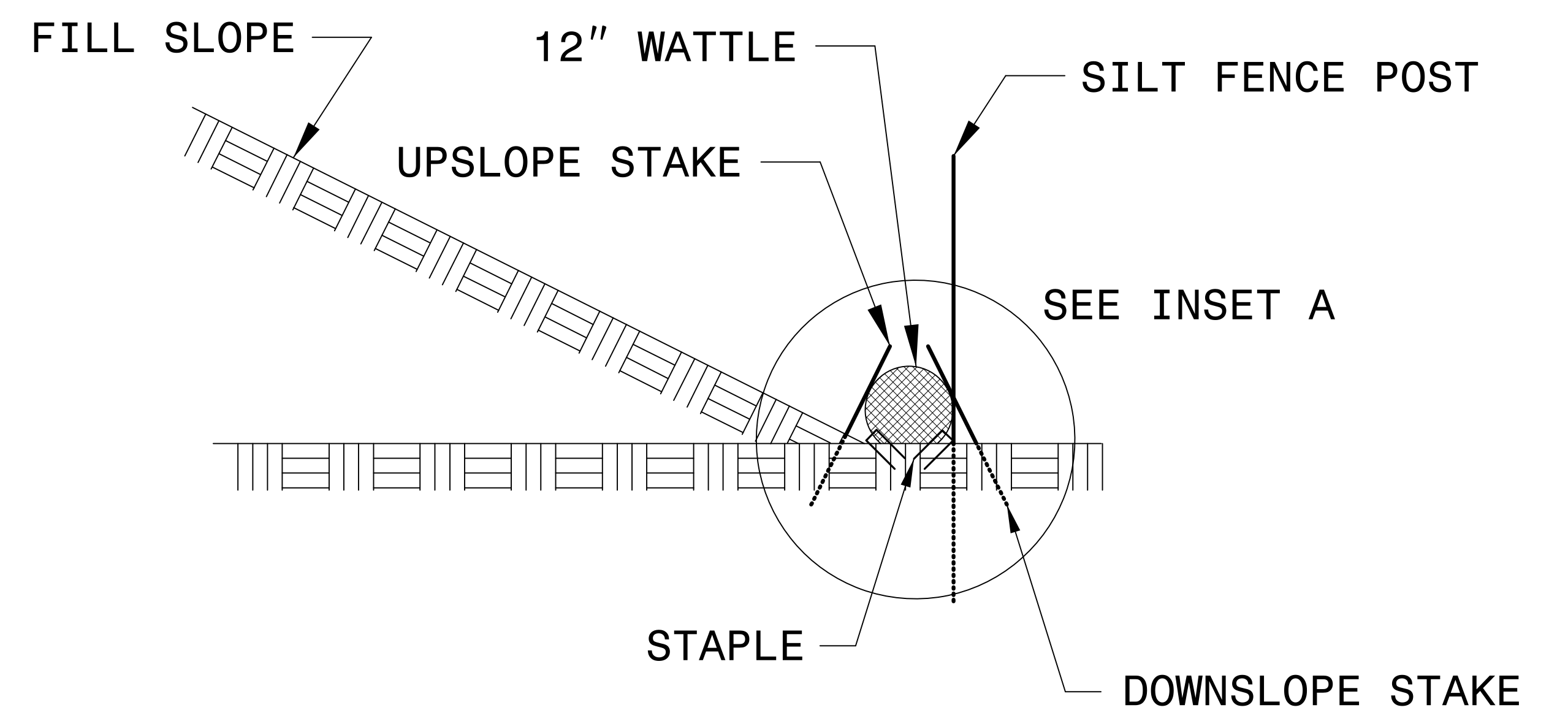
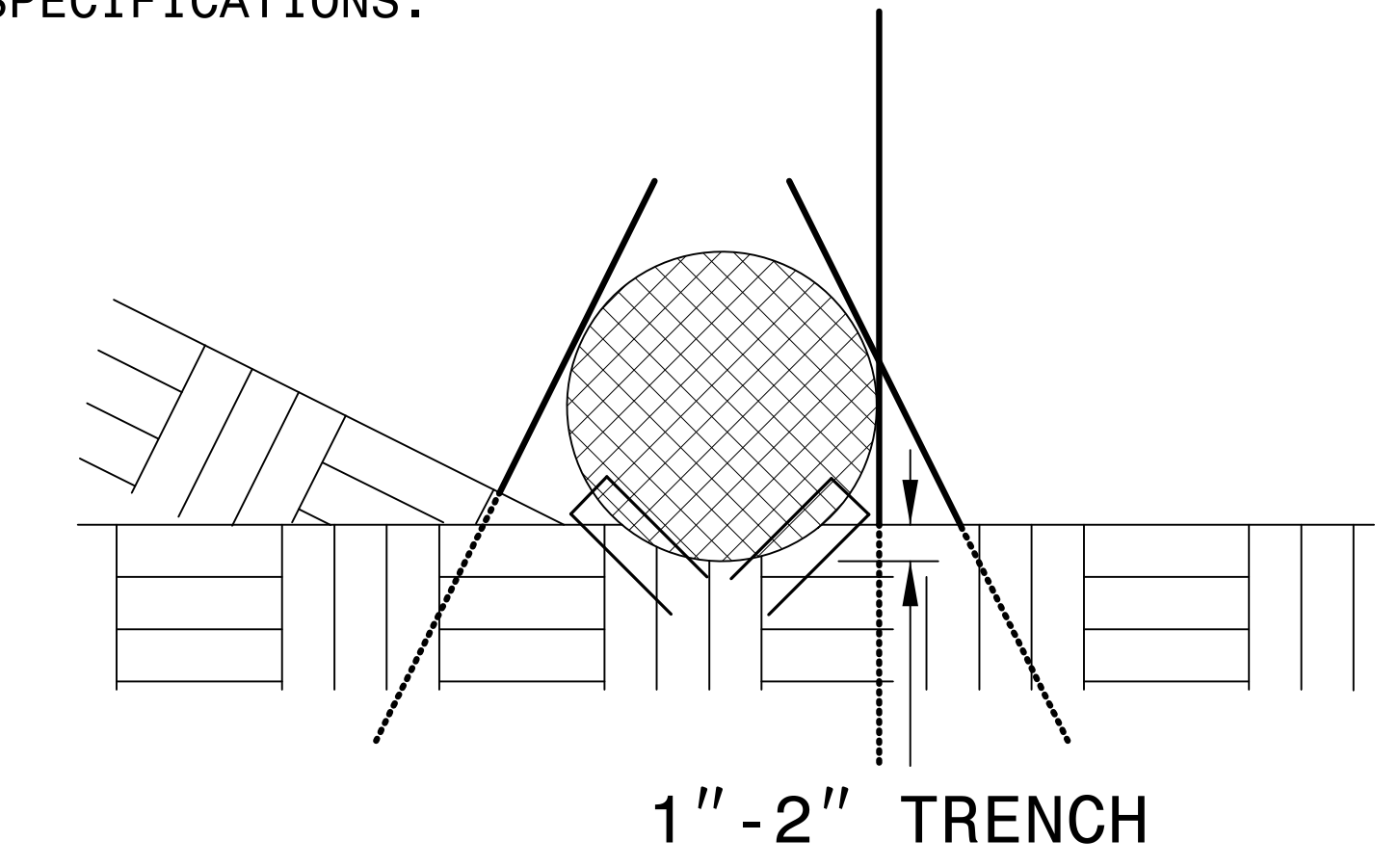


**VIEW FROM SLOPE**

**NOTES:**

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 11 GAUGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

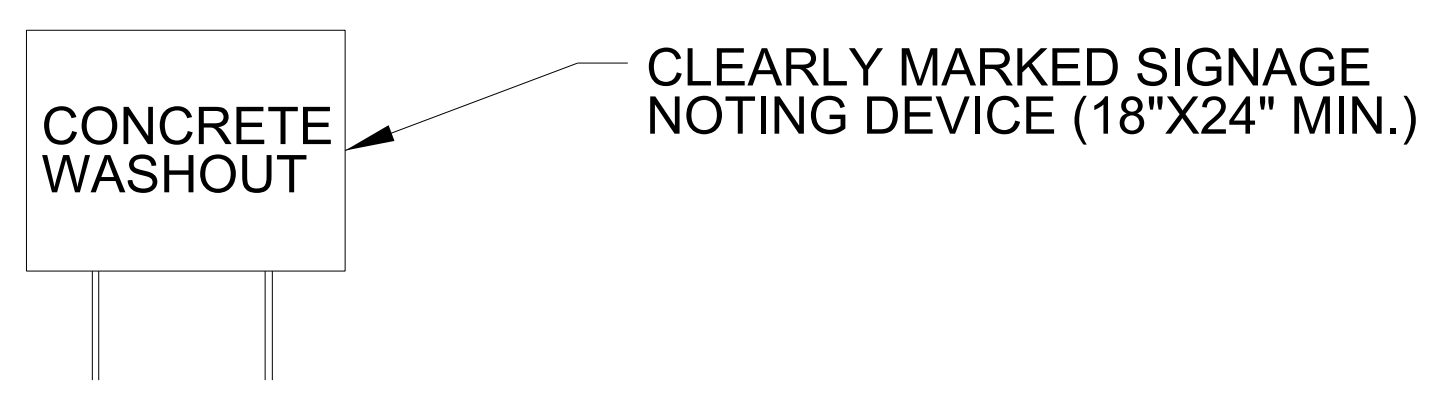
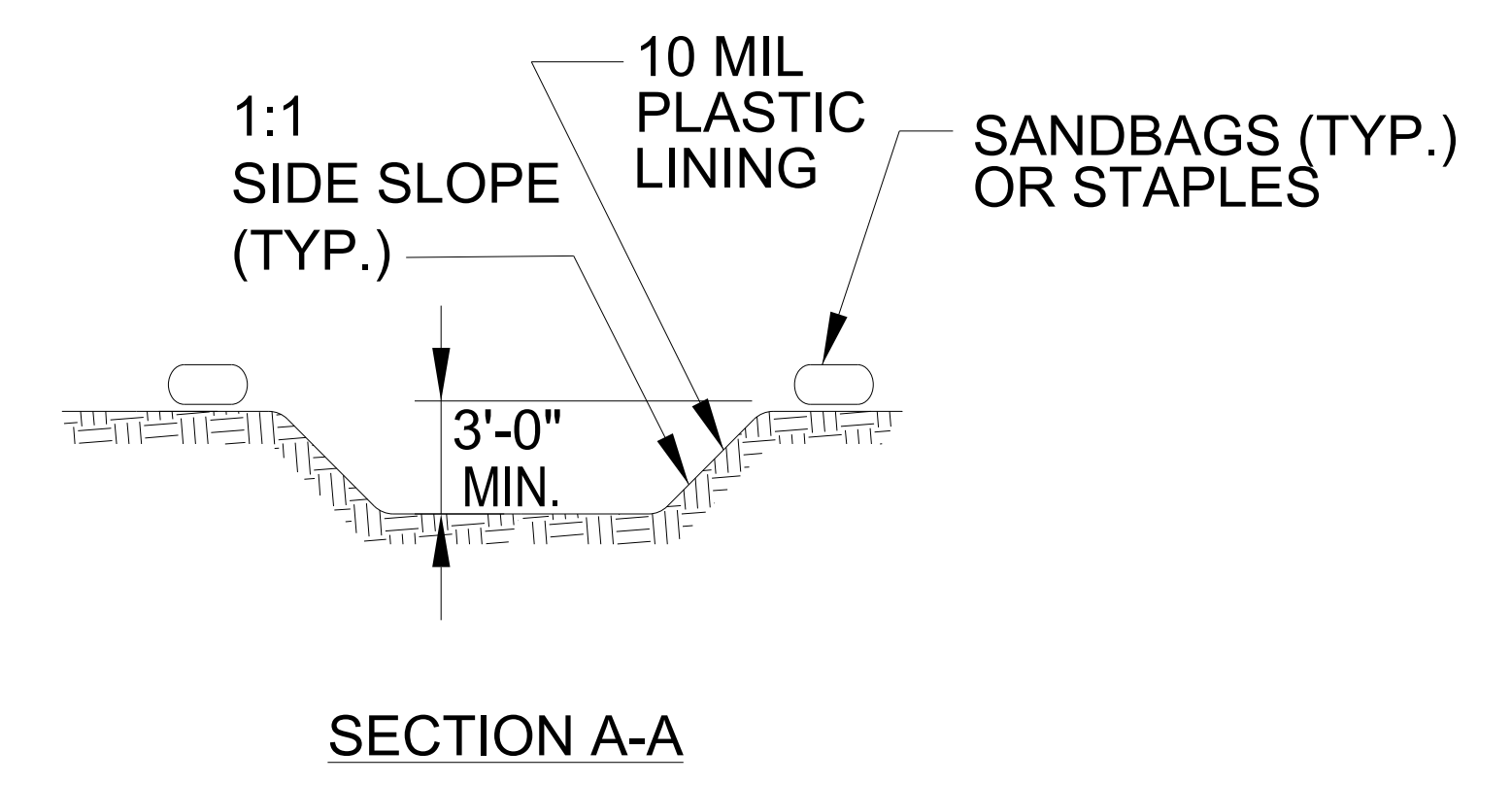
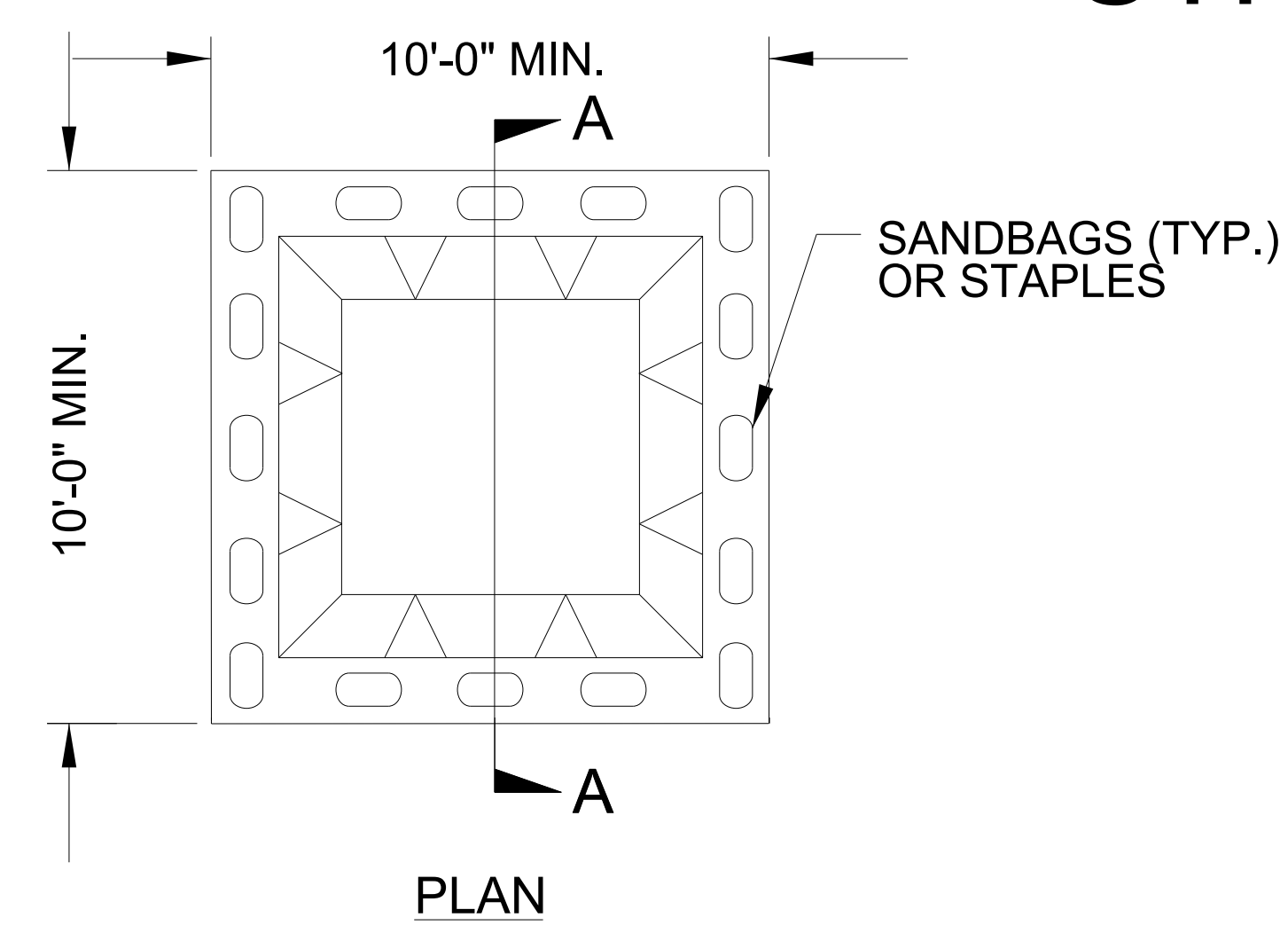
**INSET A**



**SIDE VIEW**

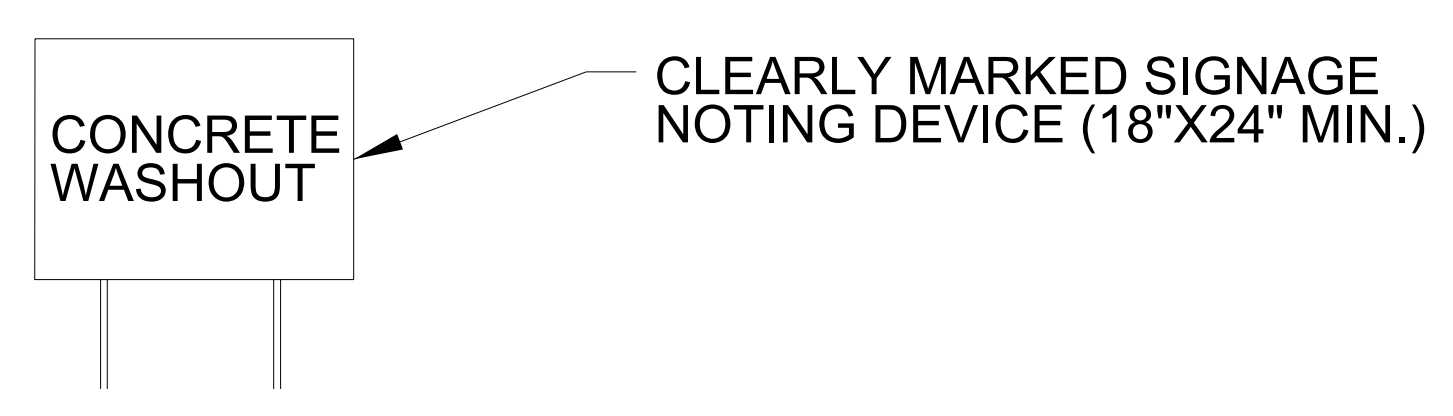
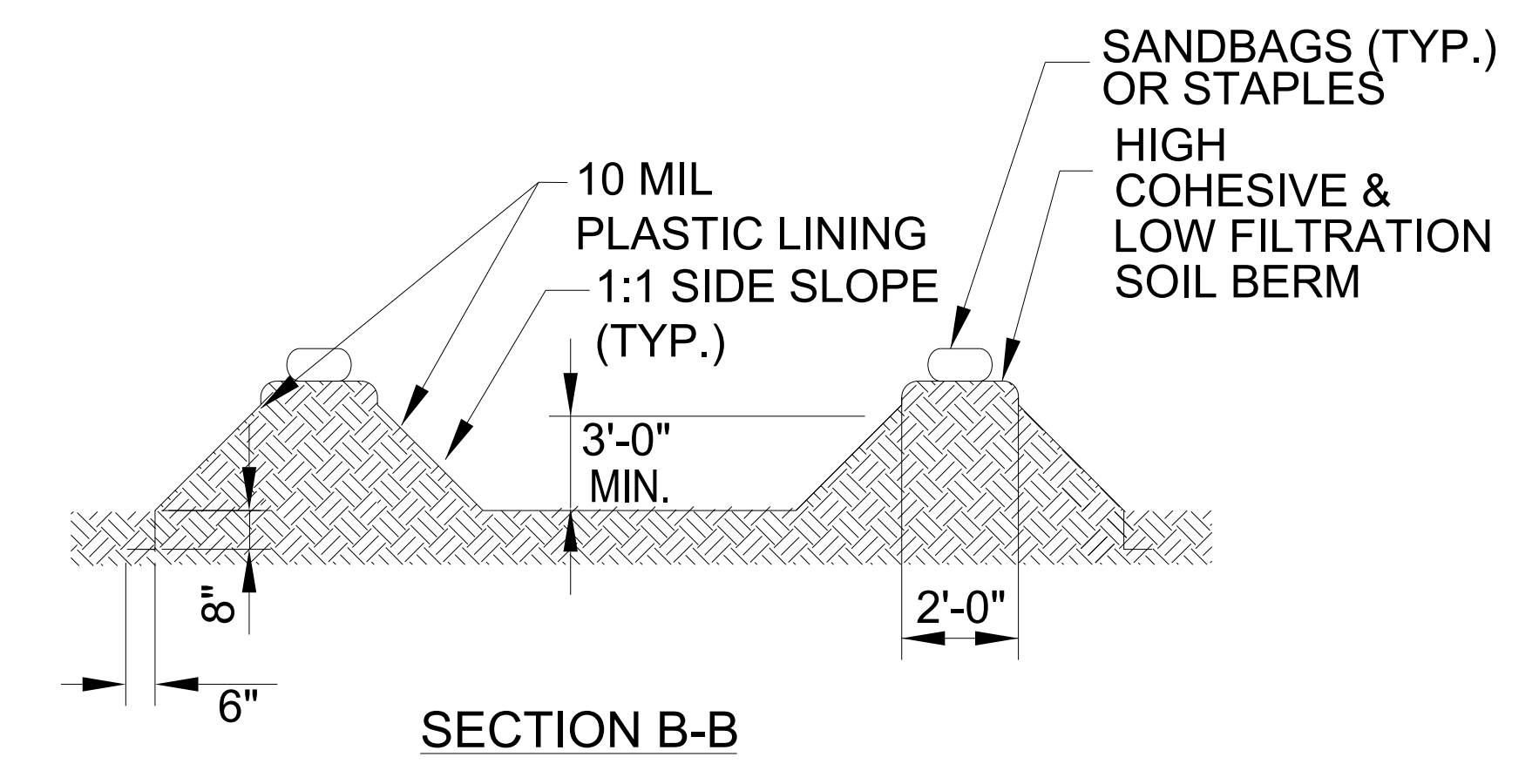
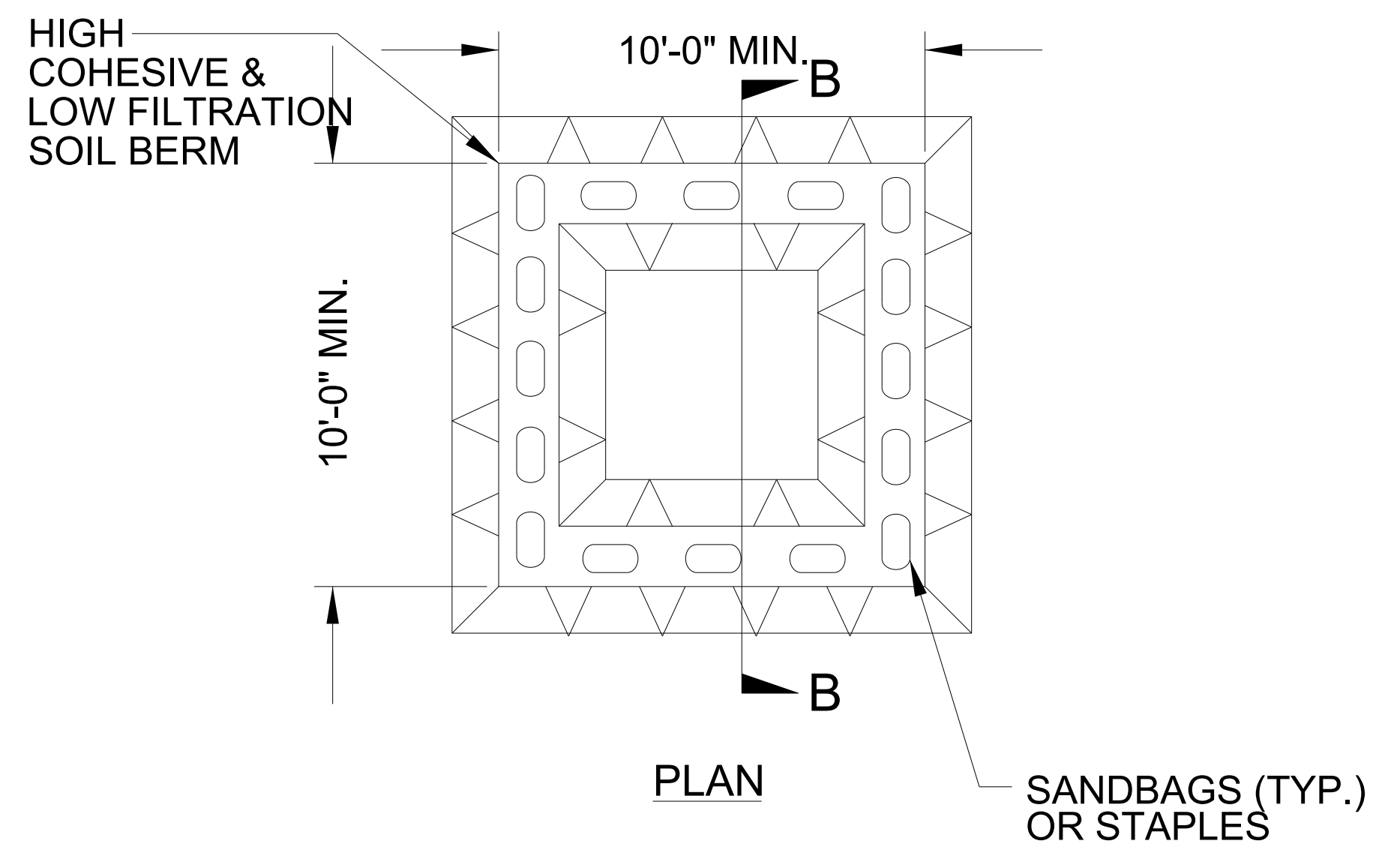


# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



**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

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PROJECT REFERENCE NO.	SHEET NO.
<i>W-5702M</i>	<i>EC-3B</i>
<b>stv</b>	STV Engineers, Inc. 1600 Perimeter Park Dr. Suite 225 Morrisville, NC 27560 No. License Number F-0991

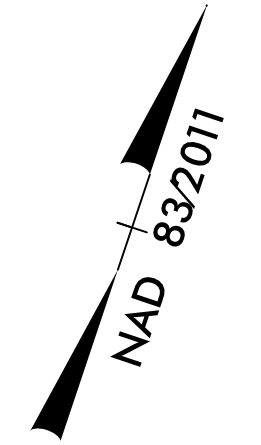
# ***SOIL STABILIZATION TIMEFRAMES***

<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

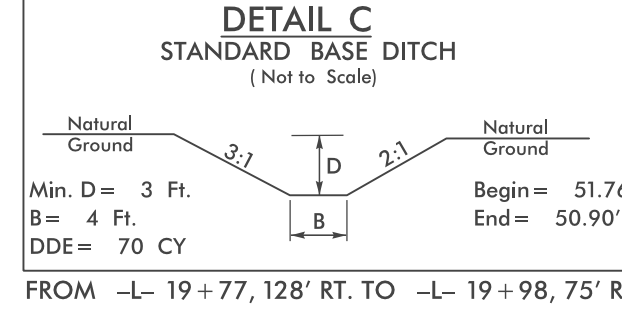
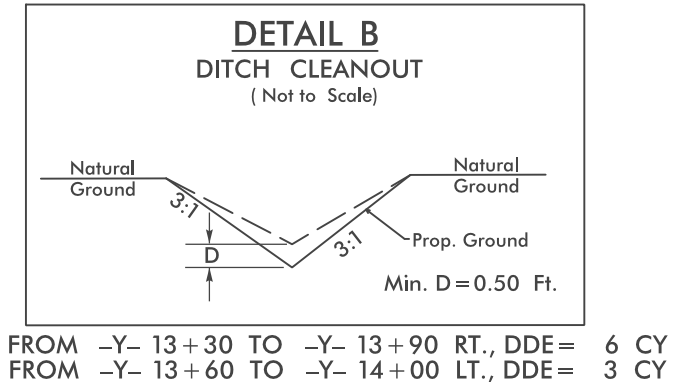
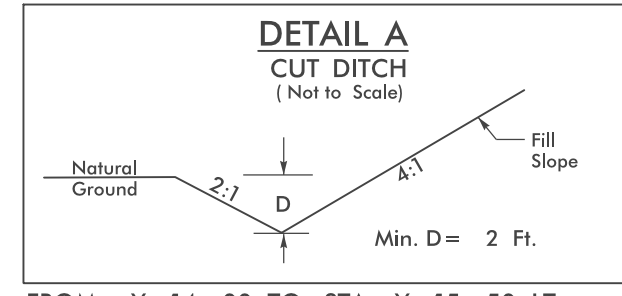






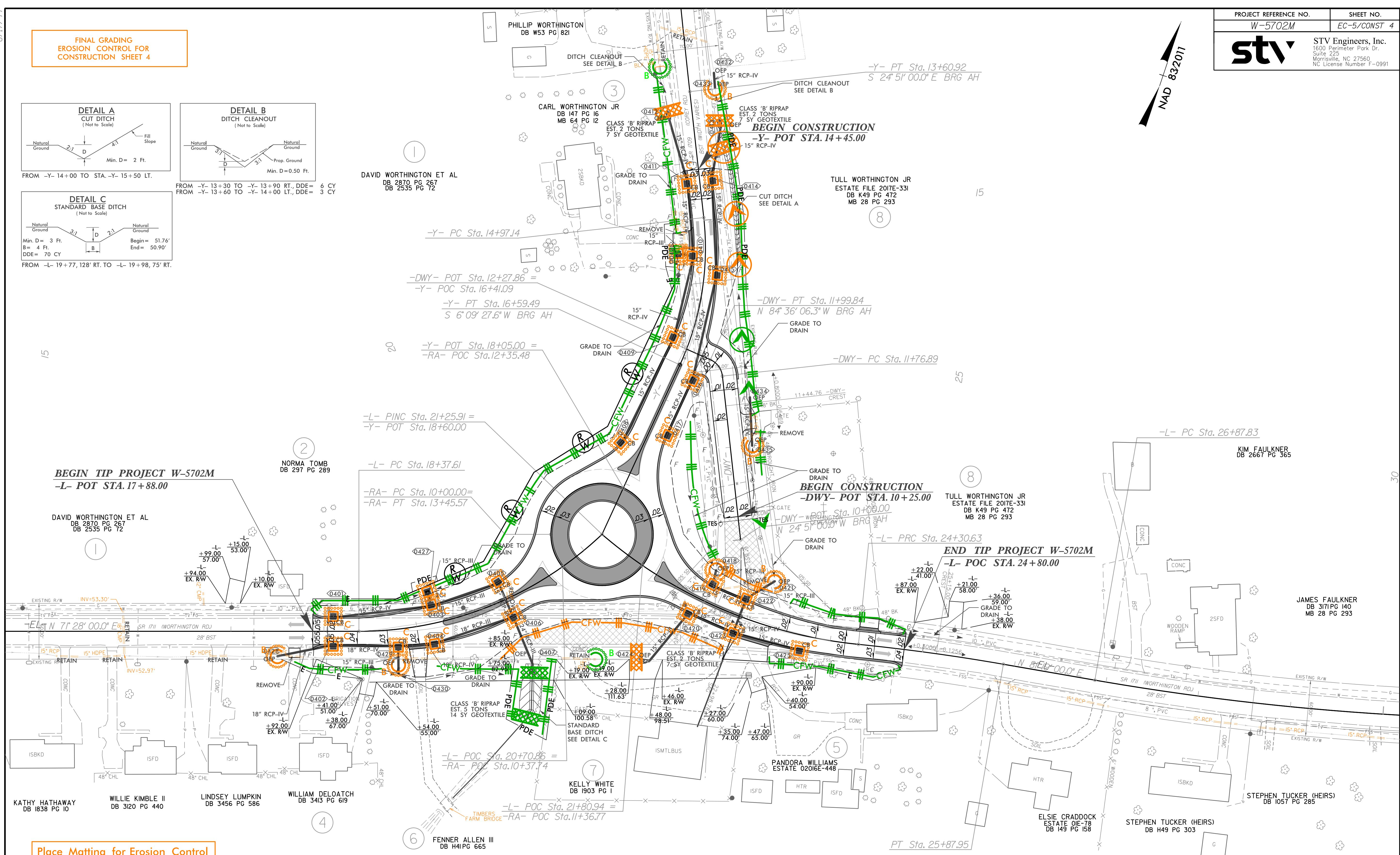


**FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4**



6/17/2024  
R:\1\2024\Commentary\Design\EC\_Sheets\W5702M\_EC\_PSH05.dgn

8/17/99



**Place Matting for Erosion Control  
on Slope as Work Allows.**  
-L- 17+90 LT to -L- 23+00 RT

**NOTE:**  
ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.  
  
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

**NOTE:**  
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.

**NOTE:**  
USE SPECIAL STILLING BASIN (SILT BAG) FOR ALL TRENCH DEWATERING ACTIVITIES

**NOTE:**  
ADD J-HOOK AT END OF EACH SILT FENCE SECTIONS TO PREVENT RUNOFF BYPASS

JOHN LAWRENCE JR.  
DB 3698 PG 741



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. <b>W-5702M</b>	SHEET NO. <b>SIGN-1</b>
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**PROJECT: W-5702M**

**PLAN FOR PROPOSED  
SIGNING**

**PITT COUNTY**

**ROADWAY STANDARD DRAWINGS**

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

STD. NO.	TITLE
901.50	ARROWS AND SHIELDS
904.50	MOUNTING OF TYPE 'D', 'E', and 'F' SIGNS ON 'U' CHANNEL POSTS

**GENERAL NOTES**

- SIGNING:**
- SIGNS FURNISHED BY STATE
  - ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POST UNLESS OTHERWISE INDICATED ON THE PLANS.
  - 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-ERECTING SHALL IMMEDIATELY FOLLOW THE REMOVAL.
  - THE BACKGROUND FOR TYPE 'E' AND 'F' SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

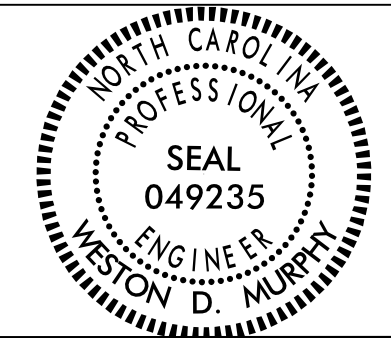
**SUMMARY OF QUANTITIES**

ITEM NO.		ITEM DESCRIPTION	QUANTITY UNIT	
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3-LB STEEL U-CHANNEL	450	LF
4096000000	904	SIGN ERECTION, TYPE 'D'	6	EA
4102000000	904	SIGN ERECTION, TYPE 'E'	18	EA

**INDEX OF SHEETS**

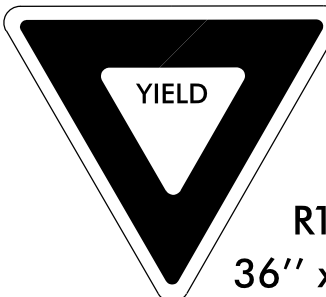
SHEET NO.	TITLE
SIGN-1	SIGNING PLAN COVER SHEET
SIGN-2	SUMMARY OF SIGNAGE QUANTITIES
SIGN-3A THRU 3B	SIGN DESIGNS
SIGN-4	SIGNING DETAIL

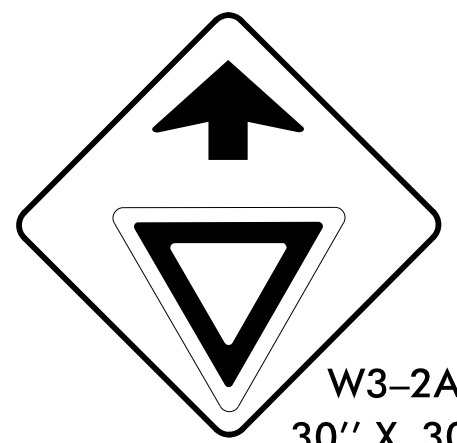
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UNLESS ALL SIGNATURES COMPLETED

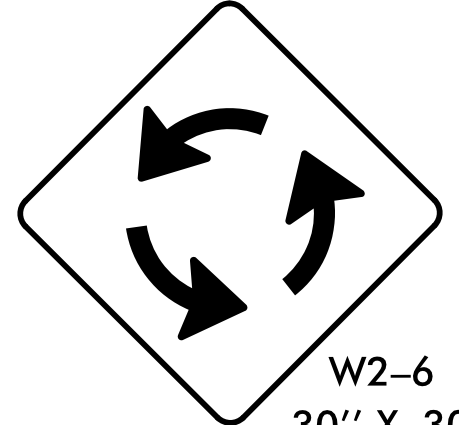

APPROVED DATE: 4/25/2024 	PLAN PREPARED FOR N.C.D.O.T. BY: <b>STV ENGINEERS, INC.</b>  PATRICK A. LIVINGSTON, PE PROJECT ENGINEER WESTON D. MURPHY, PE DESIGN ENGINEER DOUGLAS S. MOORE, PE DESIGN ENGINEER
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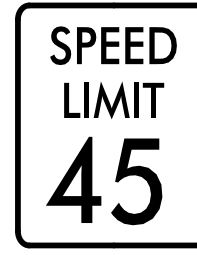
**CONTRACT: DB00433**

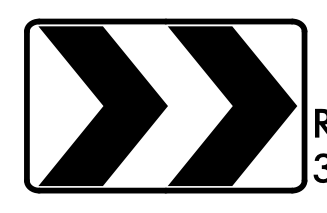


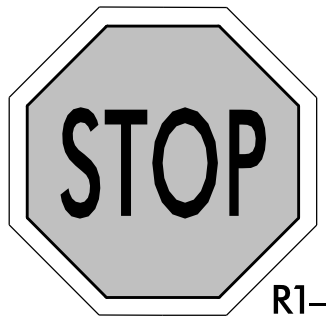
401  
QUANTITY REQ'D = 3  
  
R1-2  
36" x 36" x 36"

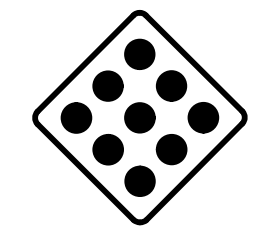
402  
QUANTITY REQ'D = 3  
  
W3-2A  
30" X 30"

403  
QUANTITY REQ'D = 3  
  
W2-6  
30" X 30"  
  
W13-1  
18" X 18"

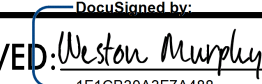
404  
QUANTITY REQ'D = 3  
  
R2-1  
24" X 30"

405  
QUANTITY REQ'D = 3  
  
R6-4  
30" X 24"

406  
QUANTITY REQ'D = 1  
  
R1-1  
30" X 30"

407  
QUANTITY REQ'D = 2  
  
OM4-1  
18" X 18"

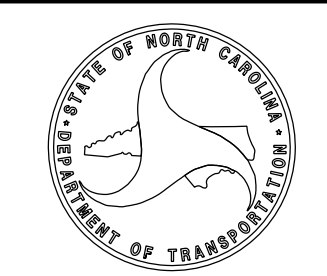
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

APPROVED:  DATE: 5/12/2023



### TYPE 'E' SIGNS

SCALE: NONE  
DATE: 01-13-20  
DWG. BY: WDM  
DESIGN BY: DSM  
REVIEWED BY: TLS



REVISIONS	

CADD FILE

5/12/2023  
M:\TrafficControl\NMP\PROJECTS\SHEETS\W-5702M\_SIGN-2\_PSH.dgn  
MURPHY.WD





SIGN NUMBER: 305 TYPE: D QUANTITY: 1 SIGN WIDTH: 7'-0" HEIGHT: 2'-6" TOTAL AREA: 17.5 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.00" WIDTH: 0.75" RADII: 2.25" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White/White <table border="1"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>AR_FISHOOK</td> <td>6.1</td> <td>17.8</td> <td>9</td> <td>9.9</td> </tr> <tr> <td>AR_Type D</td> <td>68.9</td> <td>4.7</td> <td>6</td> <td>9</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	AR_FISHOOK	6.1	17.8	9	9.9	AR_Type D	68.9	4.7	6	9																					DESIGN BY: JCT PROJECT ID: W-5702M CHECKED BY: PAL DIV: 2 DATE: May 24, 2019
SYMBOL	X	Y	WID	HT																																	
AR_FISHOOK	6.1	17.8	9	9.9																																	
AR_Type D	68.9	4.7	6	9																																	

Spacing Factor is 0.7 unless specified otherwise

LETTER POSITIONS

Letter positions are to the lower left corners from panel edge

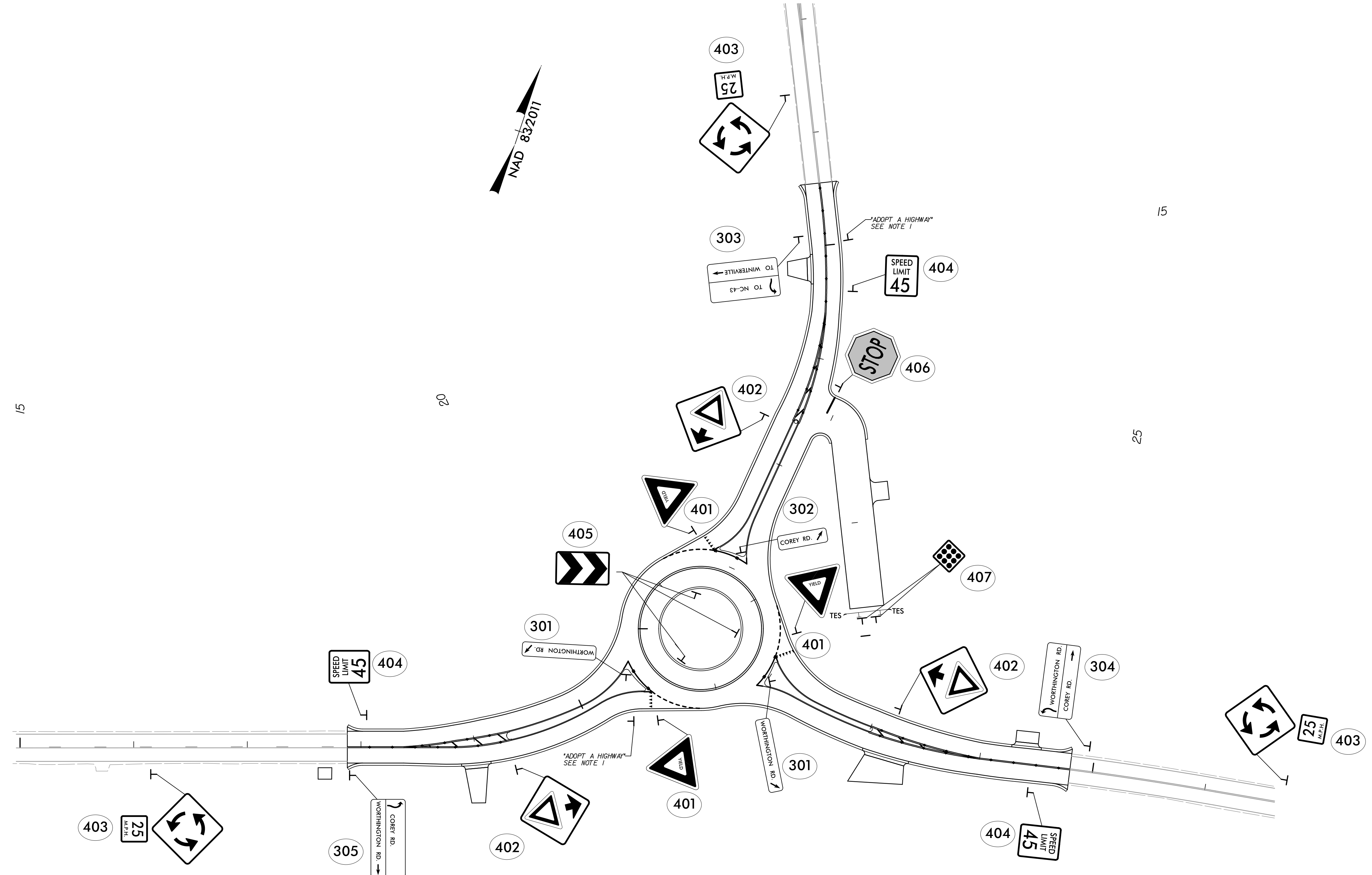
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o	38.3	42.8	48.8	53.5		
r	6.1	11.9	16.6	19	D 2000 / 6 / 4.5	58.9
e	22.1	26.8	28.9	33.4		
y	37.6	40.4	45.1	48.6		
R	54.6	59.3				
d						

NORTH CAROLINA D.O.T. SIGN DETAIL

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

APPROVED: <i>Weston Murphy</i> DATE: 5/12/2023 	<h2>SIGN DESIGN</h2>							
SCALE: NONE DATE: 01-13-20 DWG. BY: WDM DESIGN BY: DSM REVIEWED BY: TLS		REVISIONS <table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>						

5/12/2023  
 M:\TrafficControl\PM\PM\SHEETS\W-5702M\SIGN-3B\_PSH.dgn  
 MURPHY.WD



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

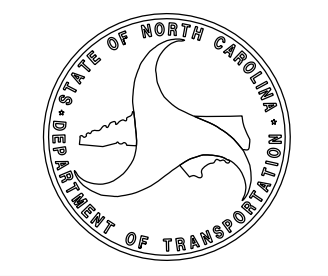
- NOTES:**
- 1) RELOCATE EXIST. SIGN SYSTEM AND ERECT NEW U-CHANNEL.
  - 2) REMOVE ALL EXIST. CONFLICTING SIGN SYSTEMS.
  - 3) PAVEMENT MARKINGS, MARKERS, SYMBOLS, AND CHARACTERS TO BE MARKED ACCORDING TO THE ROADWAY STANDARD DRAWINGS UNLESS NOTED OTHERWISE.

APPROVED: *Walter Murphy* DATE: 5/12/2023



### SIGNING DETAIL

SCALE:	NONE
DATE:	01-13-20
DWG. BY:	WDM
DESIGN BY:	DSM
REVIEWED BY:	TLS



REVISIONS	



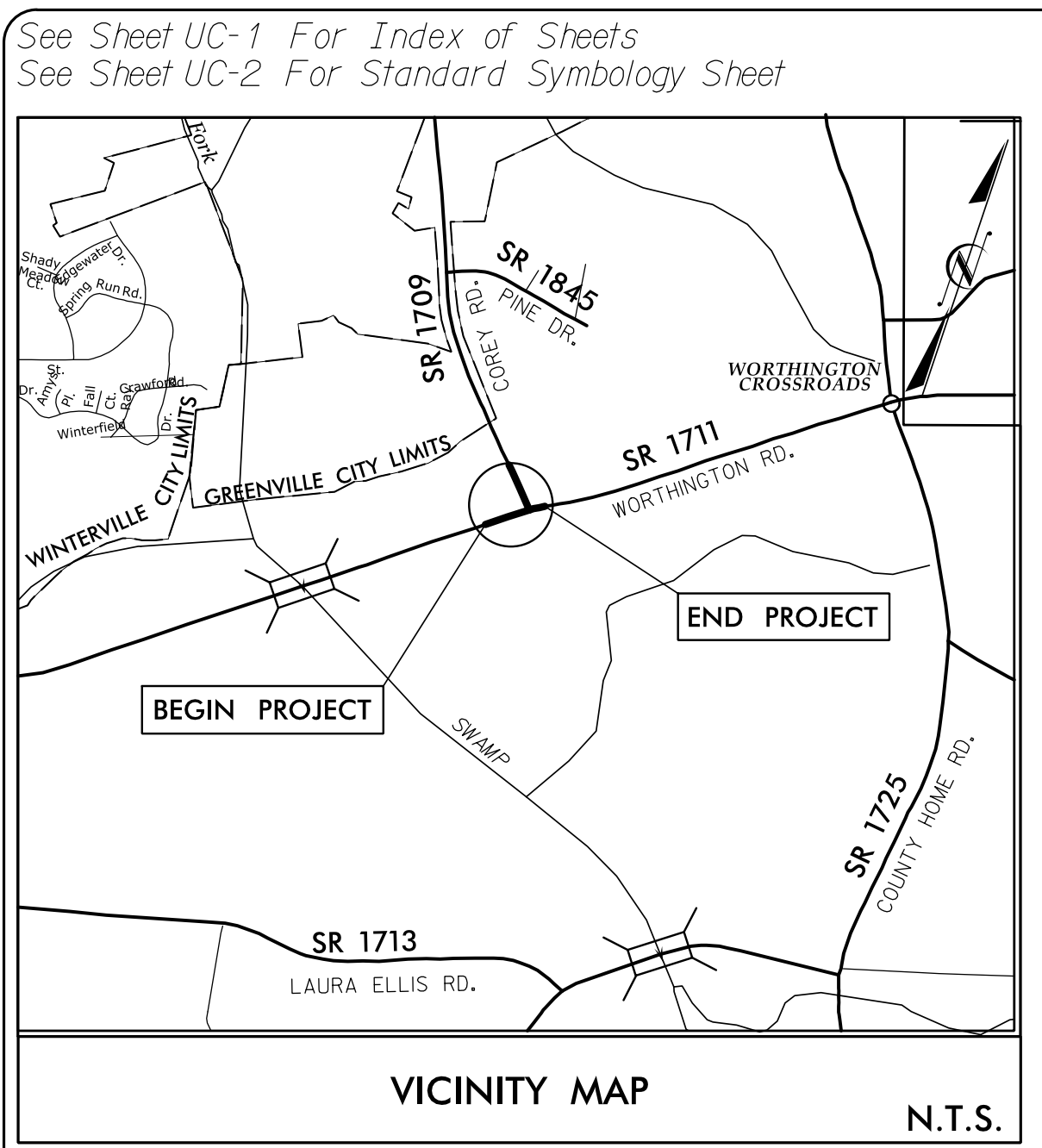
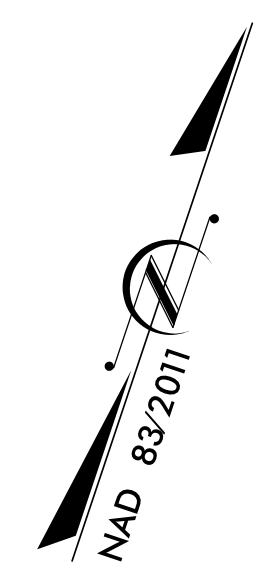
T.I.P. NO.	SHEET NO.
W-5702M	UC-1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITY CONSTRUCTION PLANS  
PITT COUNTY**

**LOCATION: INTERSECTION OF SR 1711 (WORTHINGTON RD.)  
AND SR 1709 (COREY RD.)**

**TYPE OF WORK: WATER LINE RELOCATION  
& SANITARY SEWER RELOCATION**



VICINITY MAP

N.T.S.

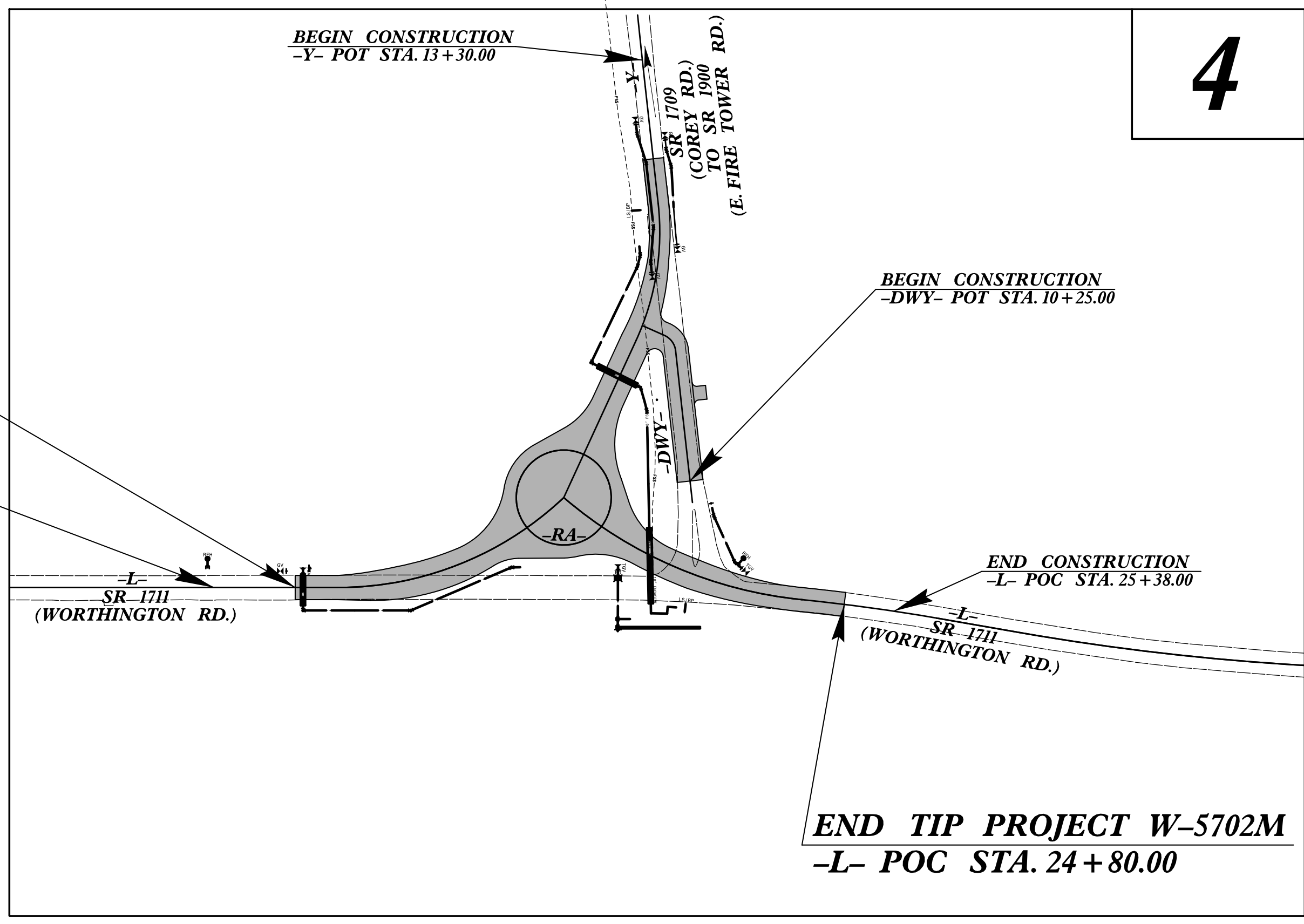
PRELIMINARY PLANS

TIP PROJECT: W-5702

**BEGIN TIP PROJECT W-5702M  
-L- POT STA. 17+88.00**

**BEGIN CONSTRUCTION  
-L- POT STA. 16+94.00**

**TO SR 1700  
(OLD TAR RD.)**

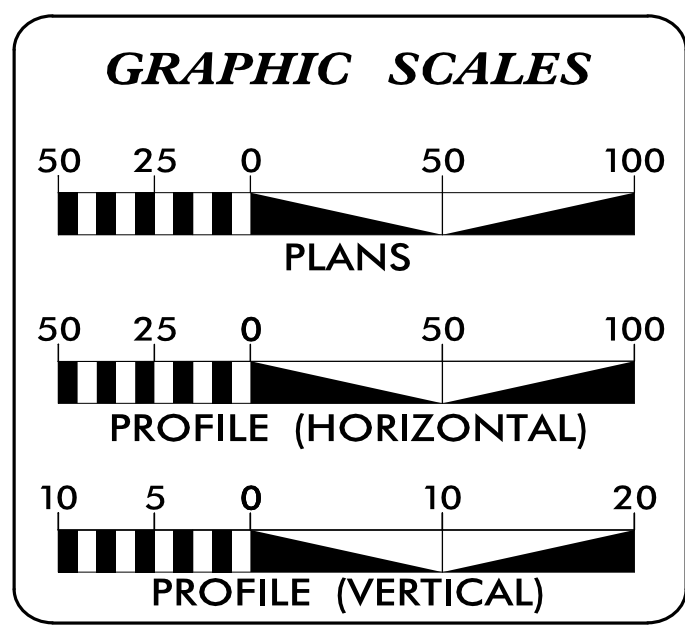


**TO SR 1725  
(COUNTY HOME RD.)**

**END TIP PROJECT W-5702M  
-L- POC STA. 24+80.00**

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED



INDEX OF SHEETS	
SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3C	DETAILS
UC-4	UTILITY CONSTRUCTION SHEETS
UC-5 THRU UC-6	PROFILE SHEETS

**WATER AND SEWER OWNERS ON PROJECT**

(A) WATER (GREENVILLE UTILITIES COMMISSION)  
(B) SEWER (GREENVILLE UTILITIES COMMISSION)

PREPARED IN THE OFFICE OF

**STV Engineers, Inc.**  
900 West Trade St., Suite 715  
Charlotte, NC 28202  
NC License Number F-0991

PATRICK LIVINGSTON, PE CONSULTANT CONTACT #1  
ANDREW VANE, PE CONSULTANT CONTACT #2  
SYDNEY MURNER, EI CONSULTANT CONTACT #3

SEAL

**DIVISION OF HIGHWAYS  
UTILITIES UNIT**  
1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

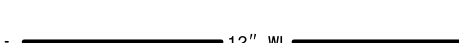
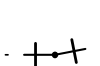
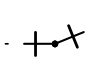
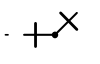
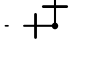

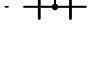
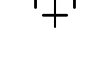



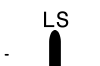

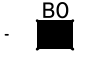










BO HEMPHILL, PE UTILITIES REGIONAL ENGINEER  
NABIL HAMDAN UTILITIES ENGINEER  
DAVID CRAMER UTILITIES AREA COORDINATOR  
UTILITIES COORDINATOR

5/12/2023 \\stvgroup.stvinc.com\3\DGPA\Vol3\Projects\4019722\_000\50\_Deliverables & Submittals\W-5702M\Utilities\Engineering\UC\Proj\Sheet\W5702M\_ut\_UC01.psh.dgn

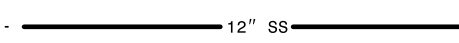
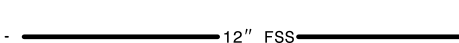

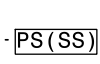
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITIES PLAN SHEET SYMBOLS





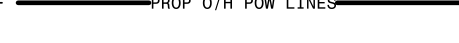
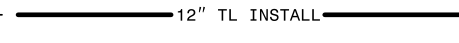
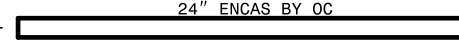
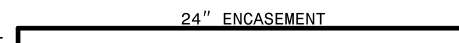
### PROPOSED WATER SYMBOLS






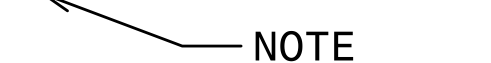

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

### PROPOSED SEWER SYMBOLS






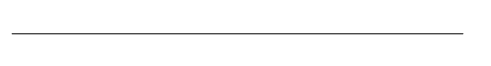

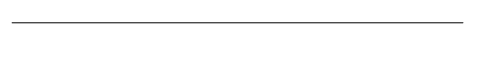

















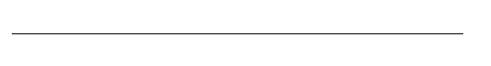











Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

### PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

### EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

\*For Existing Utilities  
 Utility Line Drawn from Record (Type as Shown)  
 Designated Utility Line (Type as Shown)



# UTILITY CONSTRUCTION

## GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO GREENVILLE UTILITIES COMMISSION.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE OF MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE SHALL BE D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE WRAPPED IN POLYETHYLENE. PIPE SHALL BE MINIMUM CLASS 250.
2. NEW WATER MAIN AND APPURTENANCES MUST BE CONSTRUCTED, TESTED, APPROVED FOR SERVICE PRIOR TO EXISTING WATER MAIN BEING TAKEN OUT OF SERVICE.
3. NEW WATER MAIN MAY BE CONSTRUCTED IN PHASES TO FACILITATE ROADWAY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF PHASING PLAN CLEARLY IDENTIFYING EACH PHASE AND SUBMIT FOR NCDOT AND GUC APPROVAL PRIOR TO BEGINNING CONSTRUCTION. EACH COMPLETED PHASE MUST RECEIVE NCDEQ FINAL APPROVAL PRIOR TO BEING PLACED INTO SERVICE.
4. ALL WATER AND SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF THE GREENVILLE UTILITIES COMMISSION'S MANUAL FOR THE DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER SYSTEM EXTENSIONS.
5. ALL SANITARY SEWER SERVICES CONNECTIONS ARE APPROXIMATE LOCATED BY GUC. TO BE FIELD VERIFIED.
6. RETURN ALL OLD FIRE HYDRANTS TO GREENVILLE UTILITIES.
7. FOR ALL 12" AND LARGER VALVES USE HORIZONTAL WATER VALVES AND BOX VALVES.
8. ALL WATER AND SEWER MAINS MUST BE WRAPPED WITH POLYETHYLENE IN ACCORDANCE WITH AWWA C105.
9. ALL DIP SEWER MAINS SHALL HAVE AN INTERIOR CEMENT MORTAR LINING IN ACCORDANCE WITH ANSI A21.4 (AND GUC STANDARDS), THE EXTERIOR SHALL HAVE ONE (1) MIL BITUMINOUS COATING IN ACCORDANCE WITH ANSI A21.51.
10. WHEN CONNECTING SANITARY SEWER MAINS THAT ARE DIFFERENT MATERIALS, A FERNCO TRANSITION FITTING WITH SHEAR BANDS/RINGS SHALL BE USED.
11. REMOVAL OF ALL ASBESTOS CEMENT (AC) PIPE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. CONTACT JEFF DELLINGER (919-707-5950) WITH NCDHHS FOR FURTHER INFORMATION.
12. REFER TO ROADWAY PLANS FOR PHASING OF PROPOSED UTILITIES IN CONJUNCTION WITH ROADWAY CONSTRUCTION.

PROJECT REFERENCE NO. <b>W-5702M</b>	SHEET NO. <b>UC-3</b>
DESIGNED BY: <b>SHM</b>	
DRAWN BY: <b>SHM</b>	
CHECKED BY: <b>ASV</b>	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	
<b>UTILITY CONSTRUCTION</b> <b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	
<b>STV Engineers, Inc.</b> 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	



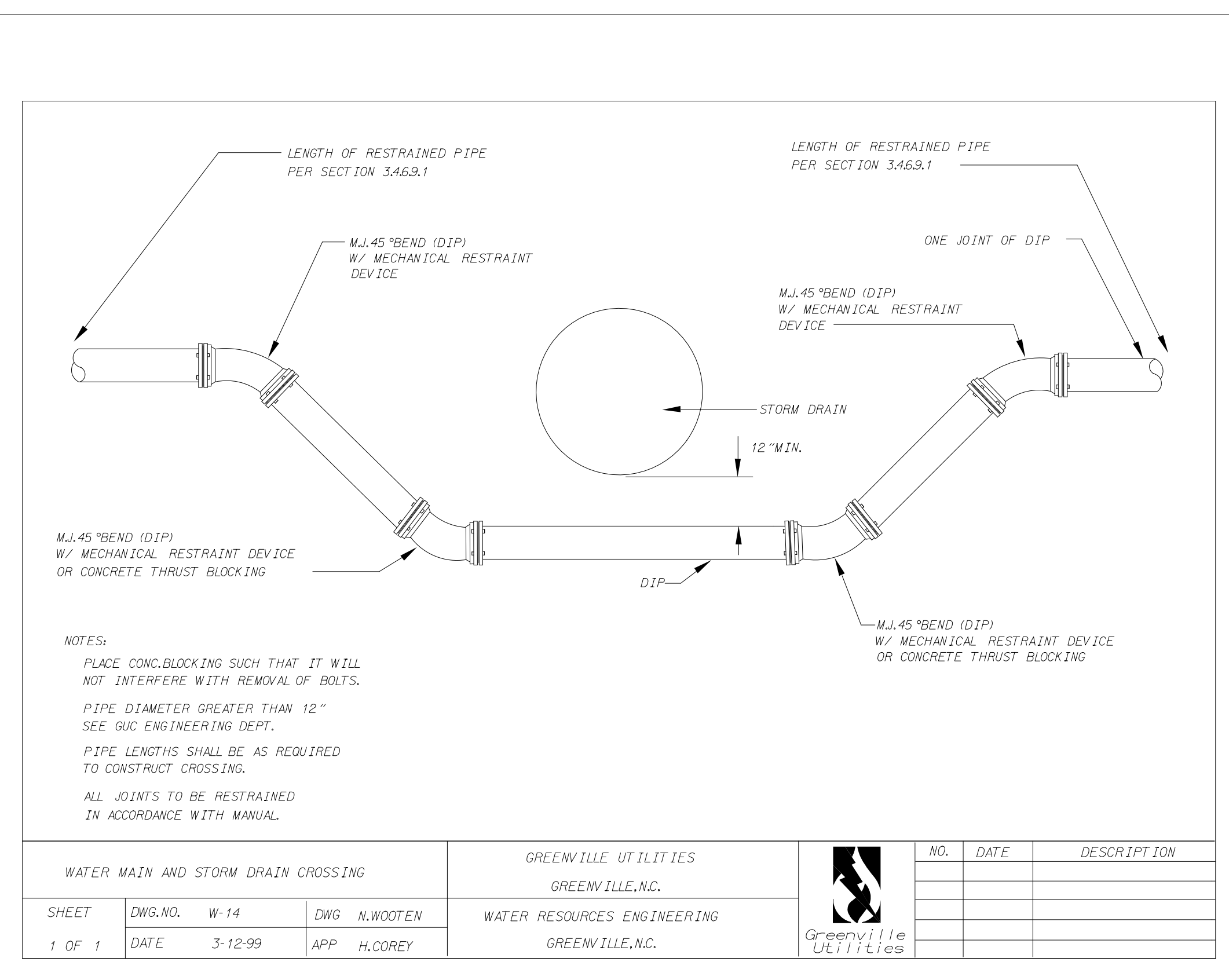
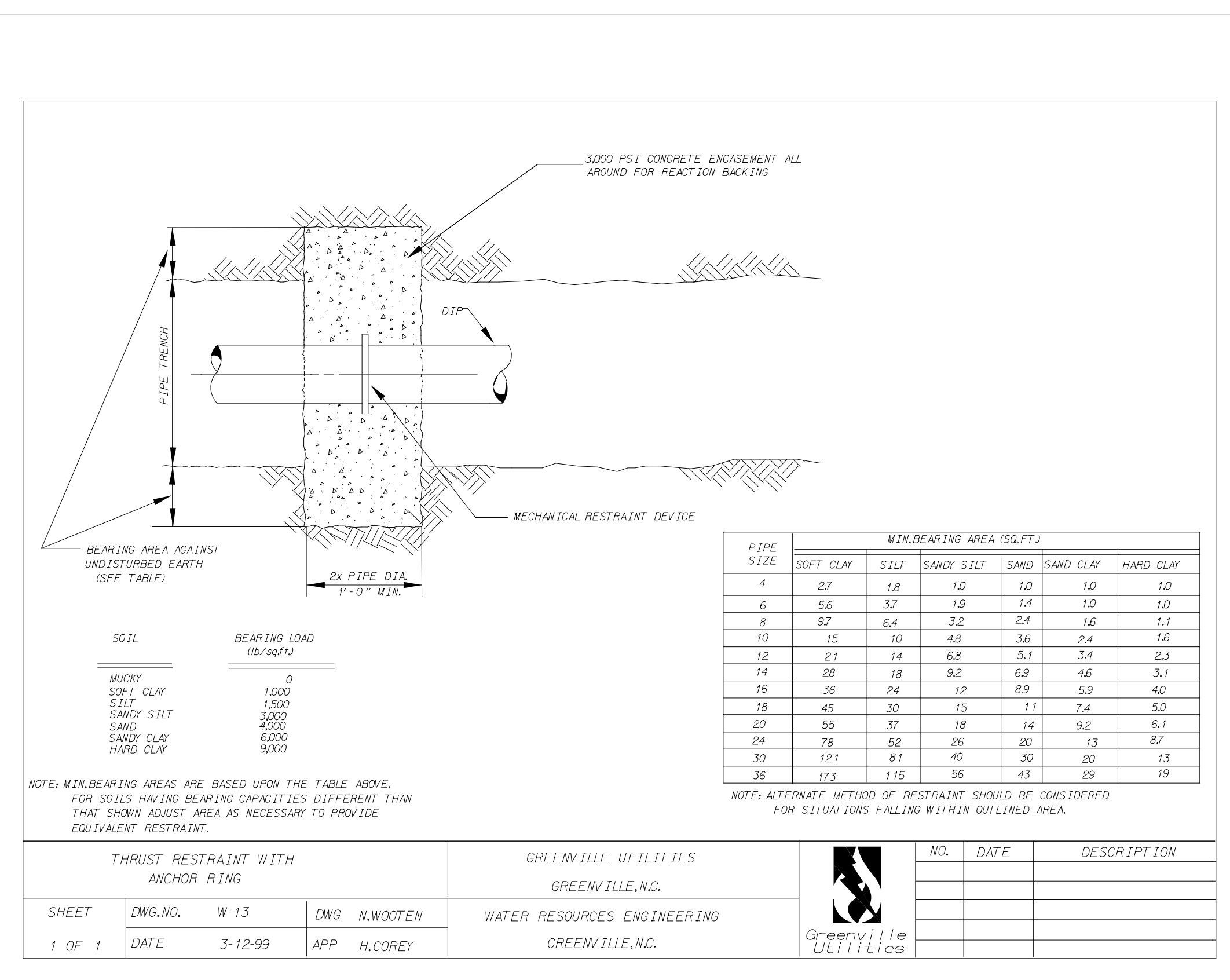
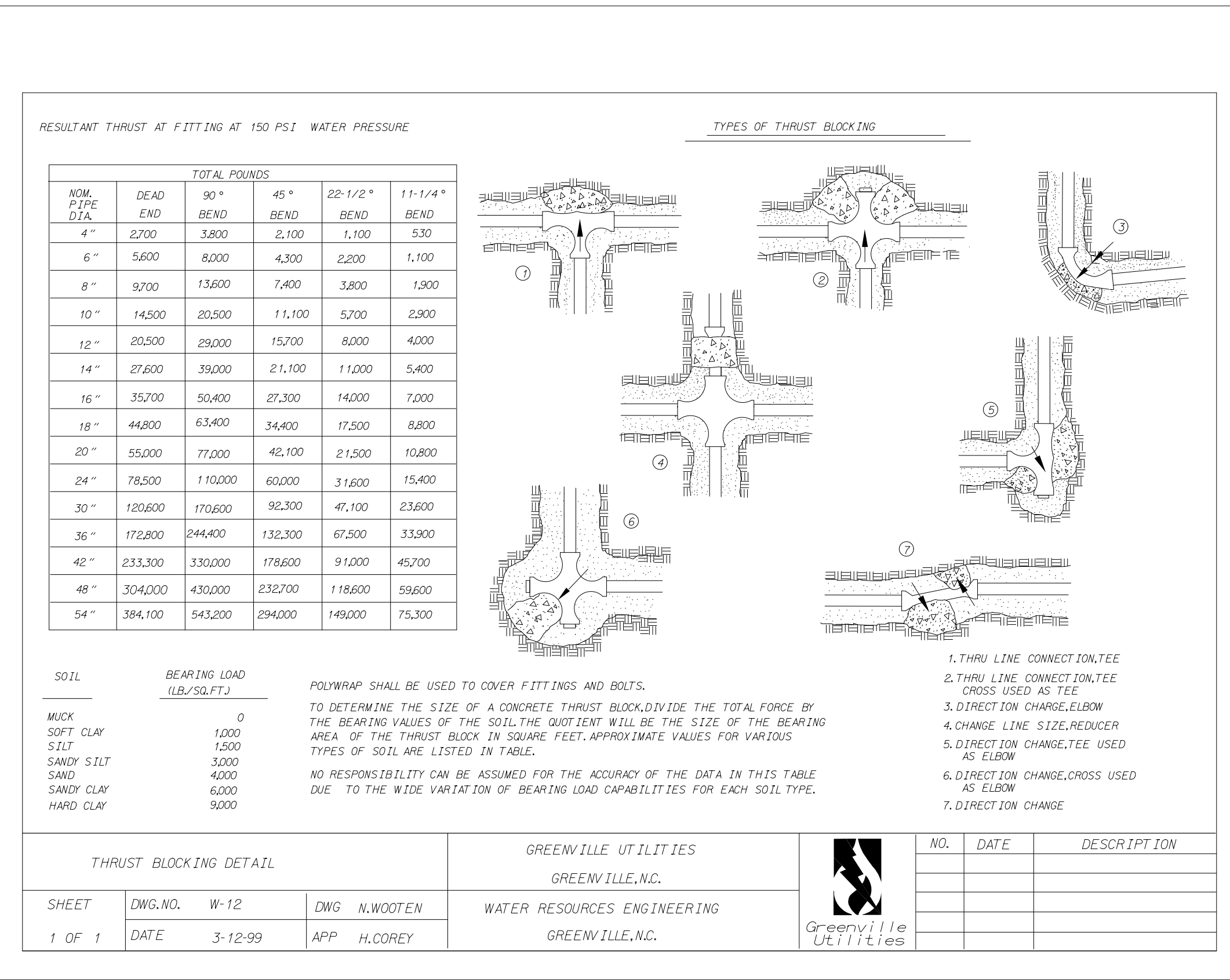
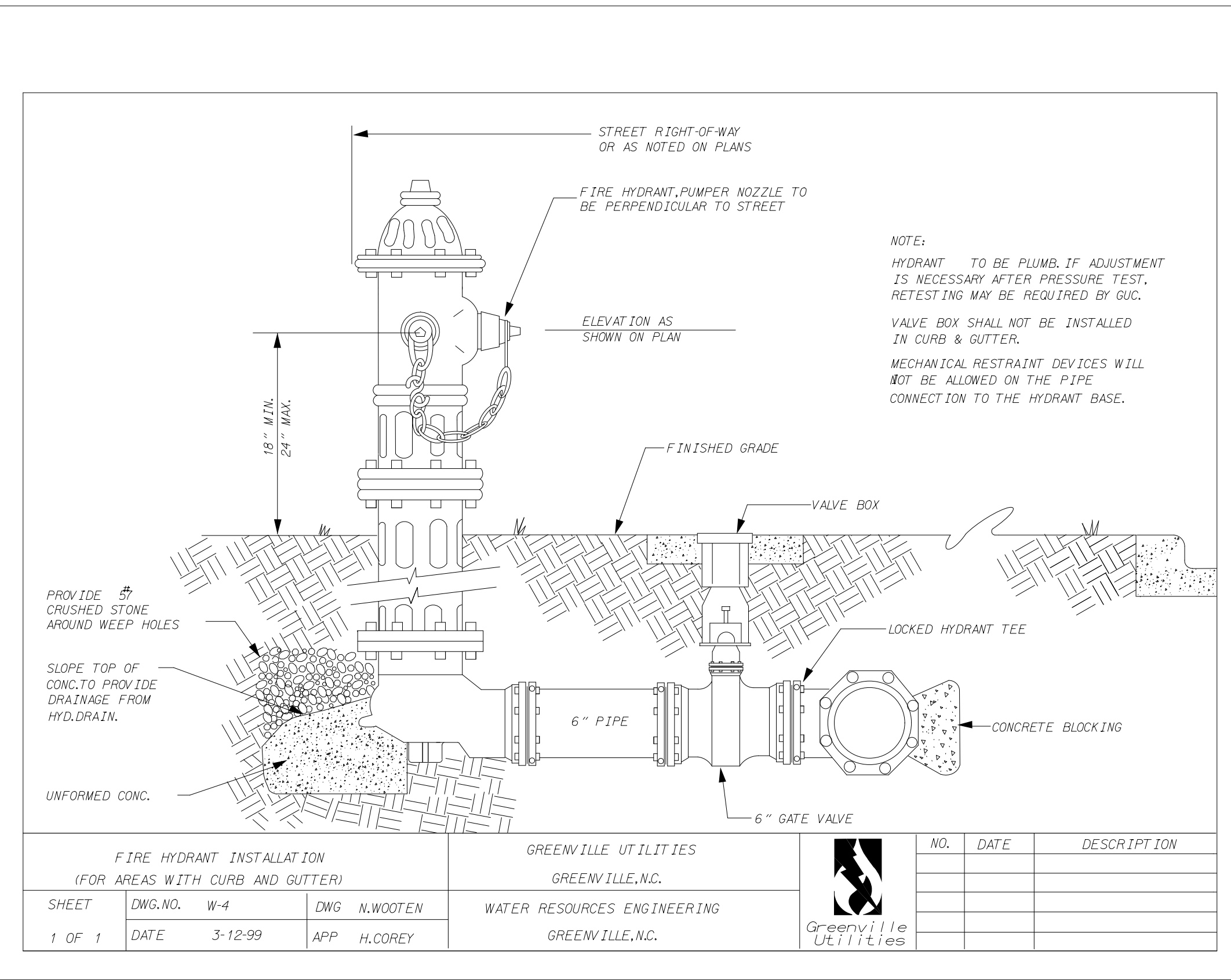
# PROJECT TYPICAL DETAILS

PROJECT REFERENCE NO.	SHEET NO.
W-5702M	UC-3A
DESIGNED BY: SHM	
DRAWN BY: SHM	
CHECKED BY: ASV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

## UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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Charlotte, NC 28202  
NC License Number F-0991





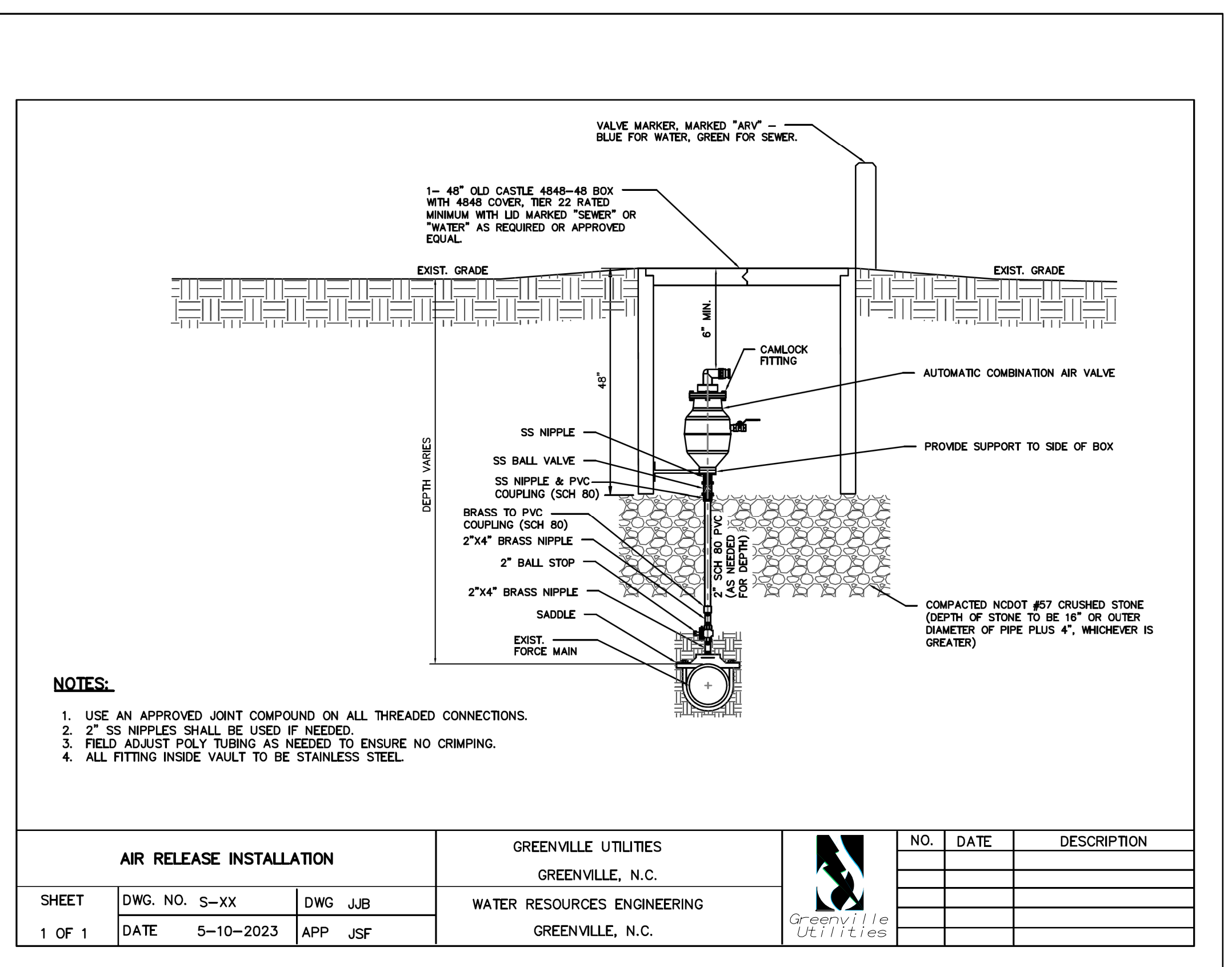
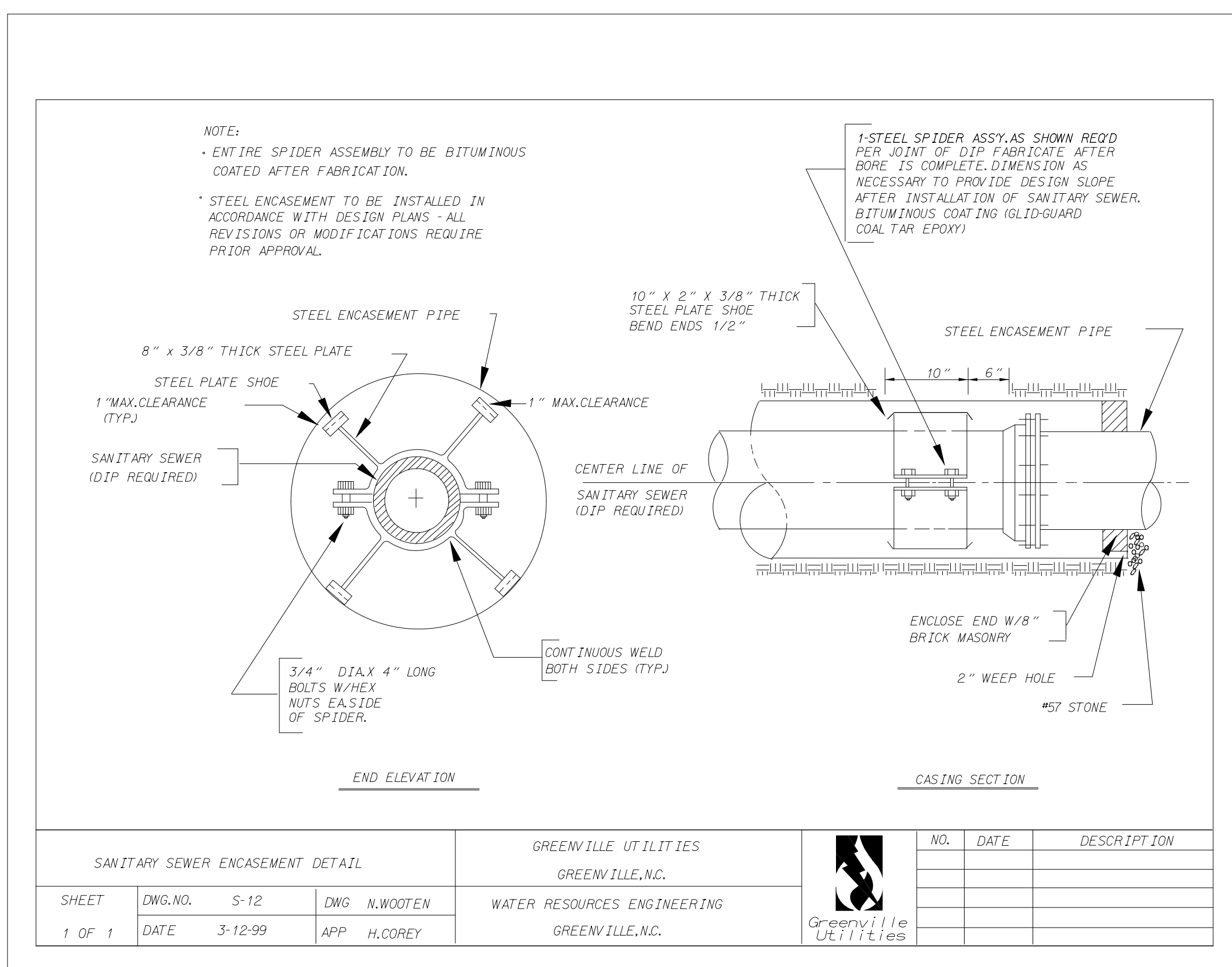
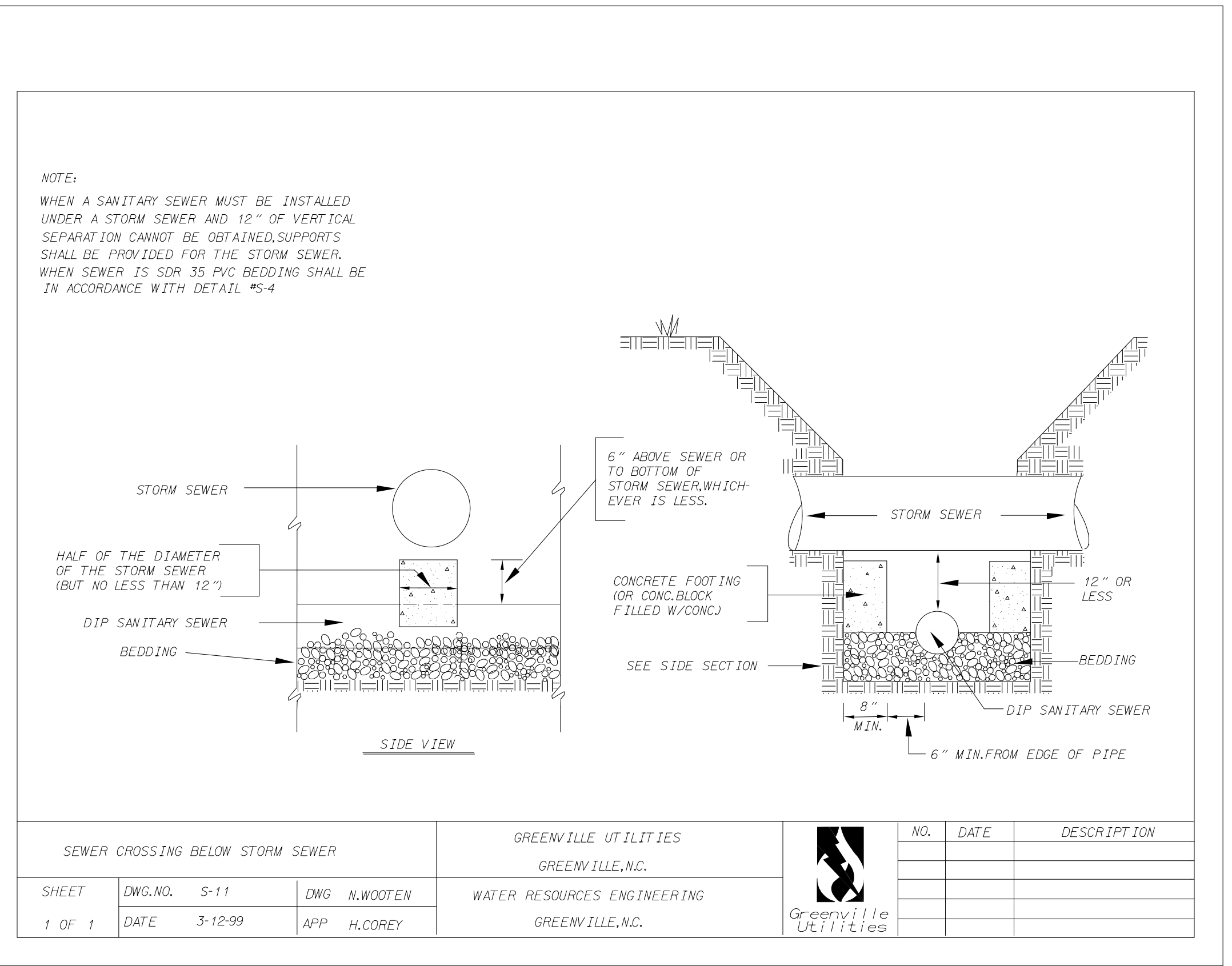
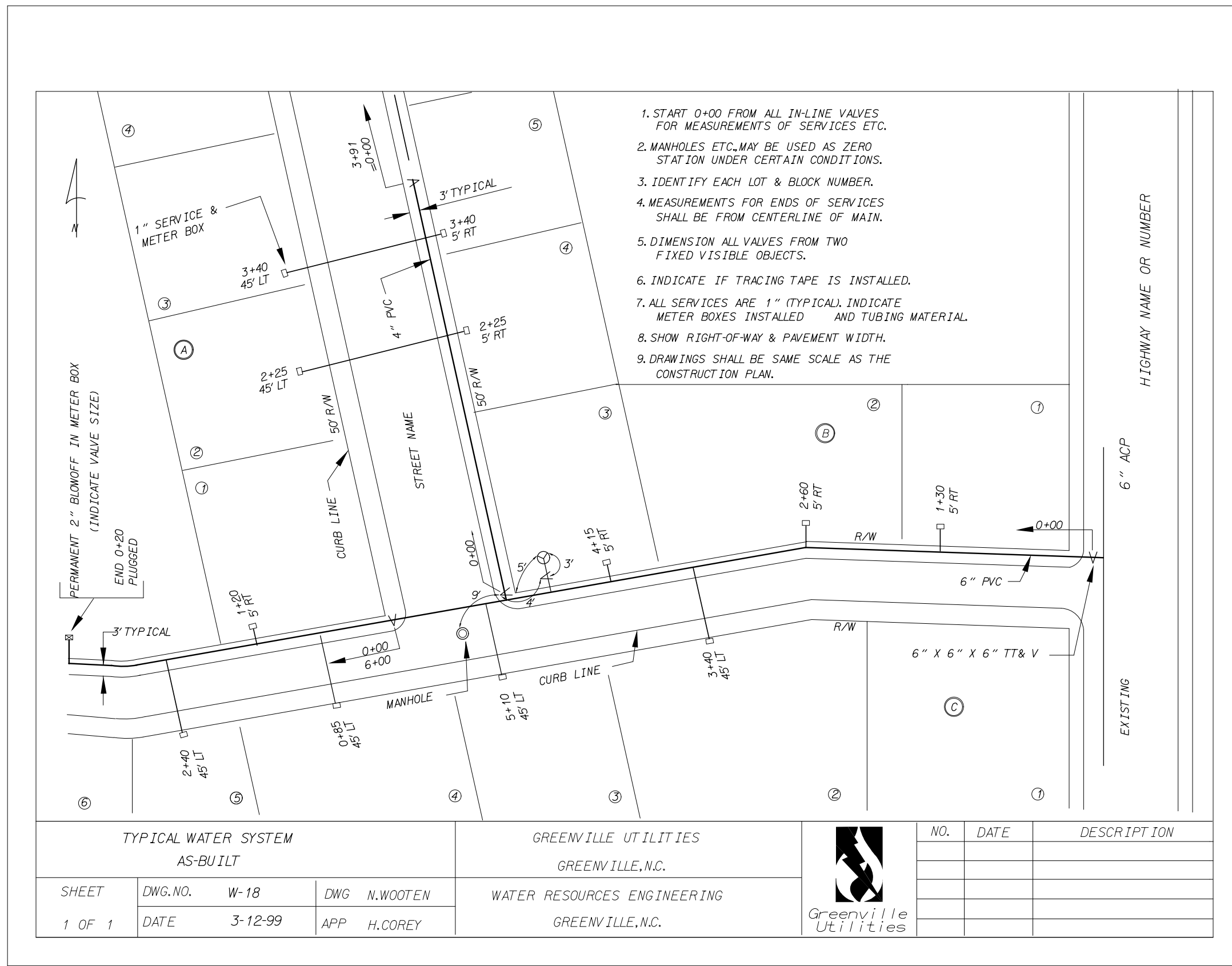
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W-5702M	UC-3B
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DRAWN BY: SHM	
CHECKED BY: ASV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

## UTILITY CONSTRUCTION

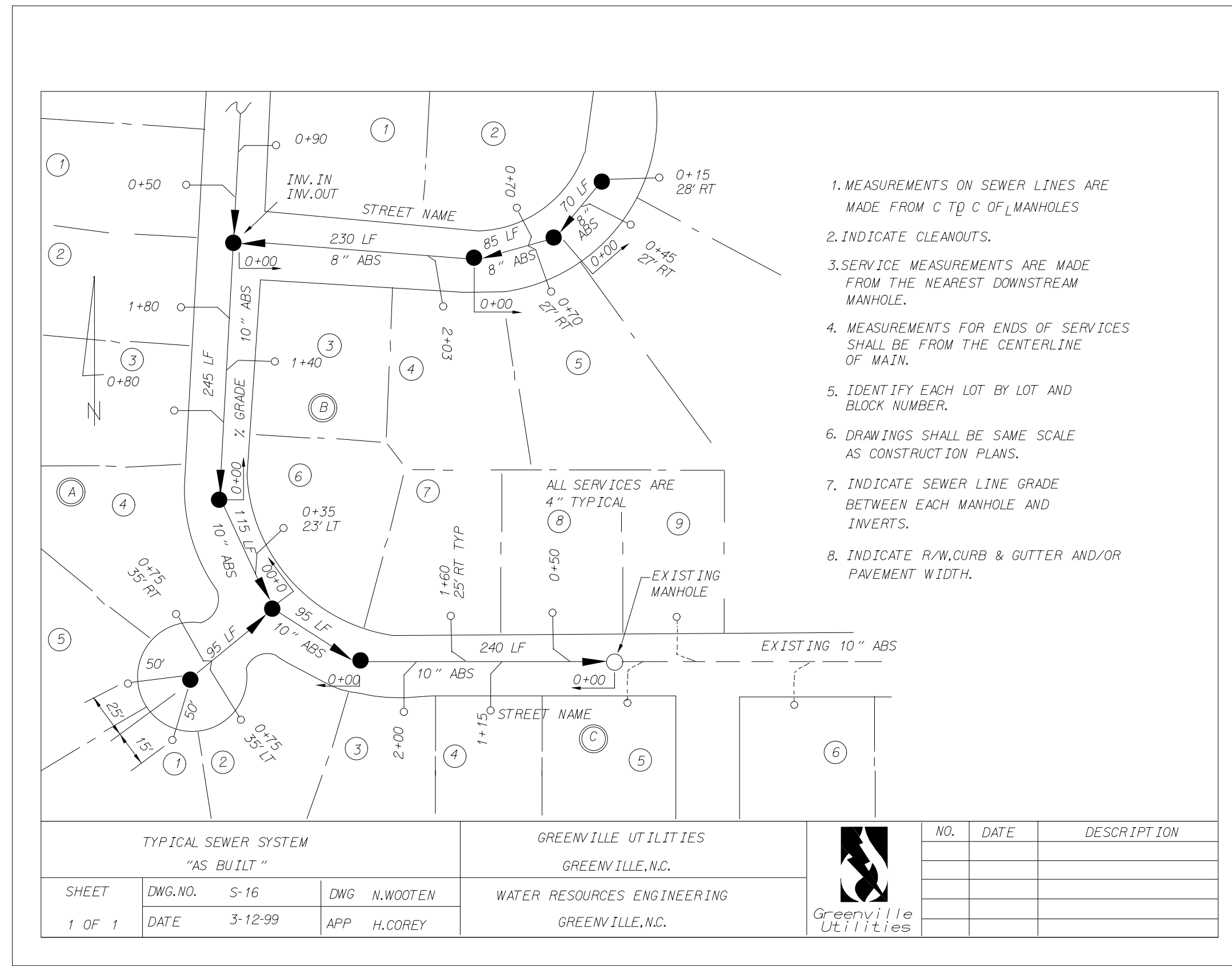
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UNLESS ALL SIGNATURES COMPLETED

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900 West Trade St., Suite 715  
Charlotte, NC 28202  
NC License Number F-0991




5/14/99

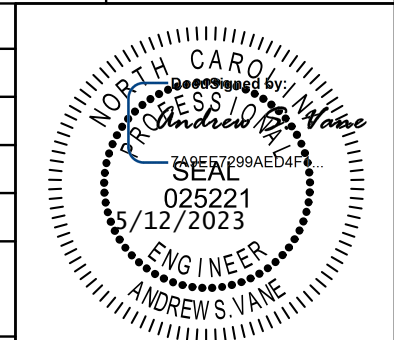
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1. MEASUREMENTS ON SEWER LINES ARE MADE FROM C TO C OF MANHOLES
2. INDICATE CLEANOUTS.
3. SERVICE MEASUREMENTS ARE MADE FROM THE NEAREST DOWNSTREAM MANHOLE.
4. MEASUREMENTS FOR ENDS OF SERVICES SHALL BE FROM THE CENTERLINE OF MAIN.
5. IDENTIFY EACH LOT BY LOT AND BLOCK NUMBER.
6. DRAWINGS SHALL BE SAME SCALE AS CONSTRUCTION PLANS.
7. INDICATE SEWER LINE GRADE BETWEEN EACH MANHOLE AND INVERTS.
8. INDICATE R/W, CURB & GUTTER AND/OR PAVEMENT WIDTH.

TYPICAL SEWER SYSTEM "AS BUILT"		GREENVILLE UTILITIES GREENVILLE, N.C.		 Greenville Utilities
SHEET 1 OF 1	DWG. NO. S-16 DATE 3-12-99	DWG. N.WOOTEN APP. H. COREY	WATER RESOURCES ENGINEERING GREENVILLE, N.C.	

NO.	DATE	DESCRIPTION

PROJECT REFERENCE NO. <b>W-5702M</b>	SHEET NO. <b>UC-3C</b>
DESIGNED BY: <b>SHM</b>	
DRAWN BY: <b>SHM</b>	
CHECKED BY: <b>ASV</b>	
APPROVED BY:	
REVISIED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

**UTILITY CONSTRUCTION**

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

**stv** STV Engineers, Inc.  
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 Charlotte, NC 28202  
 NC License Number F-0991





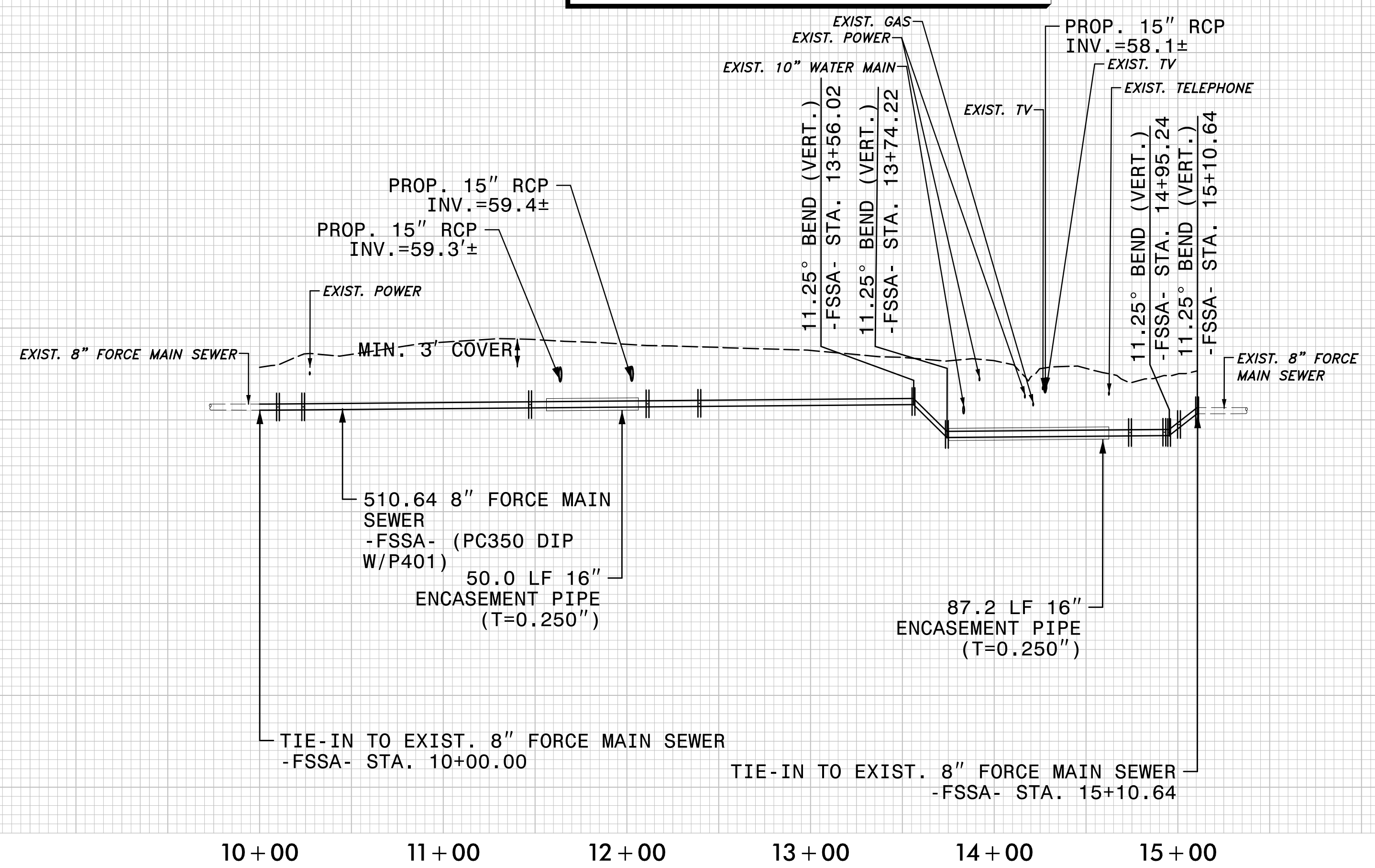


5/14/99  
5/12/2023  
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100  
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SCALE: 1" = 50' HORIZONTAL  
1" = 10' VERTICAL  
NOTES:  
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO FORCED SANITARY SEWER CONSTRUCTION.  
2. ALL PIPE TO BE RESTRAINED

### PROP. 8" FORCE MAIN -FSSA- COREY RD

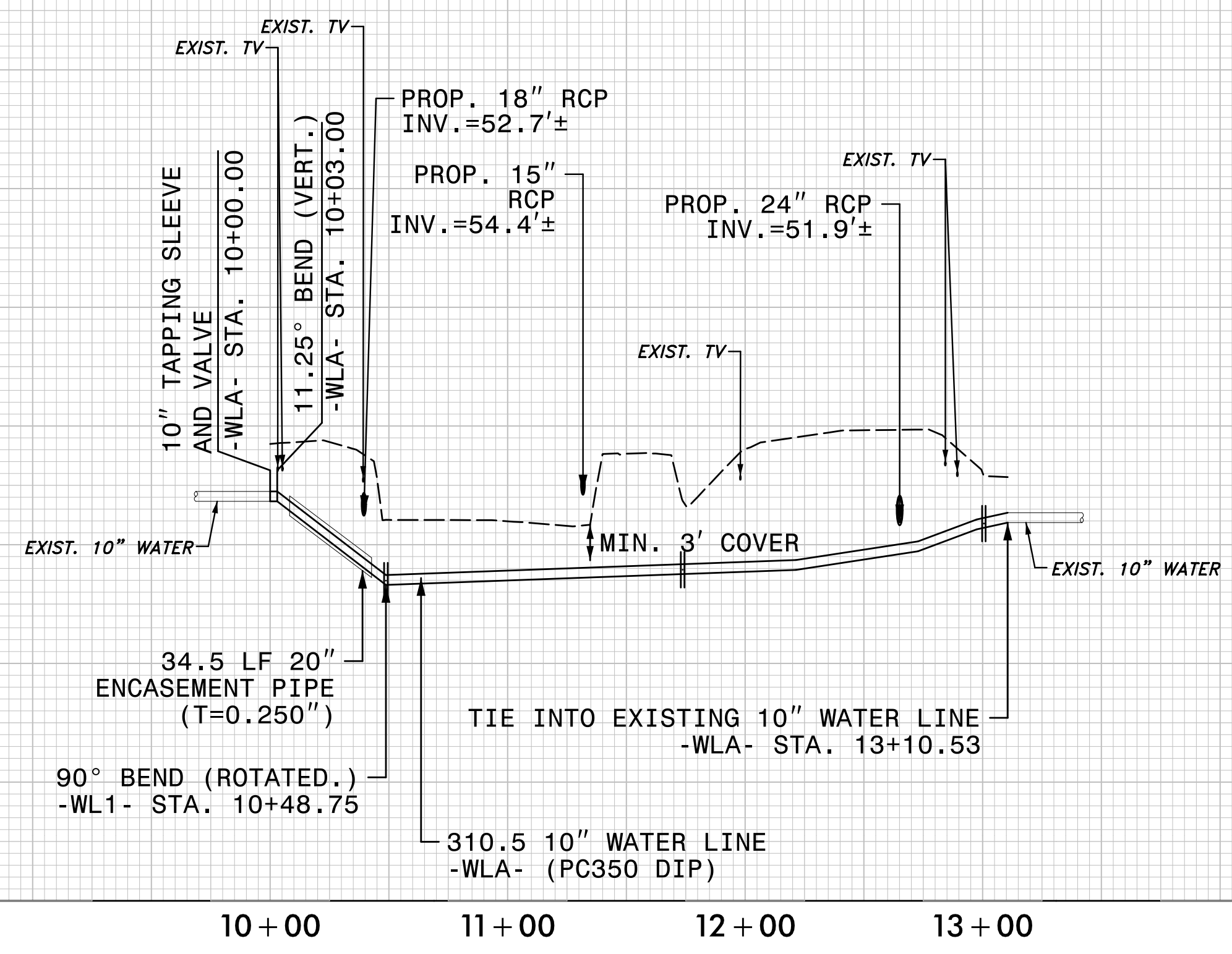


SEE SHEET UC-4 FOR -FSSA- PLAN

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SCALE: 1" = 50' HORIZONTAL  
1" = 10' VERTICAL  
NOTES:  
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO WATER LINE CONSTRUCTION.  
2. ALL PIPE TO BE RESTRAINED

### PROP. 10" WATER LINE -WLA- WORTHINGTON RD



SEE SHEET UC-4 FOR -WLA- PLAN

PROJECT REFERENCE NO.	SHEET NO.
W-5702M	UC-5
DESIGNED BY: SHM	
DRAWN BY: SHM	
CHECKED BY: ASV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**

**STV Engineers, Inc.**  
900 West Trade St., Suite 715  
Charlotte, NC 28202  
NC License Number F-0991

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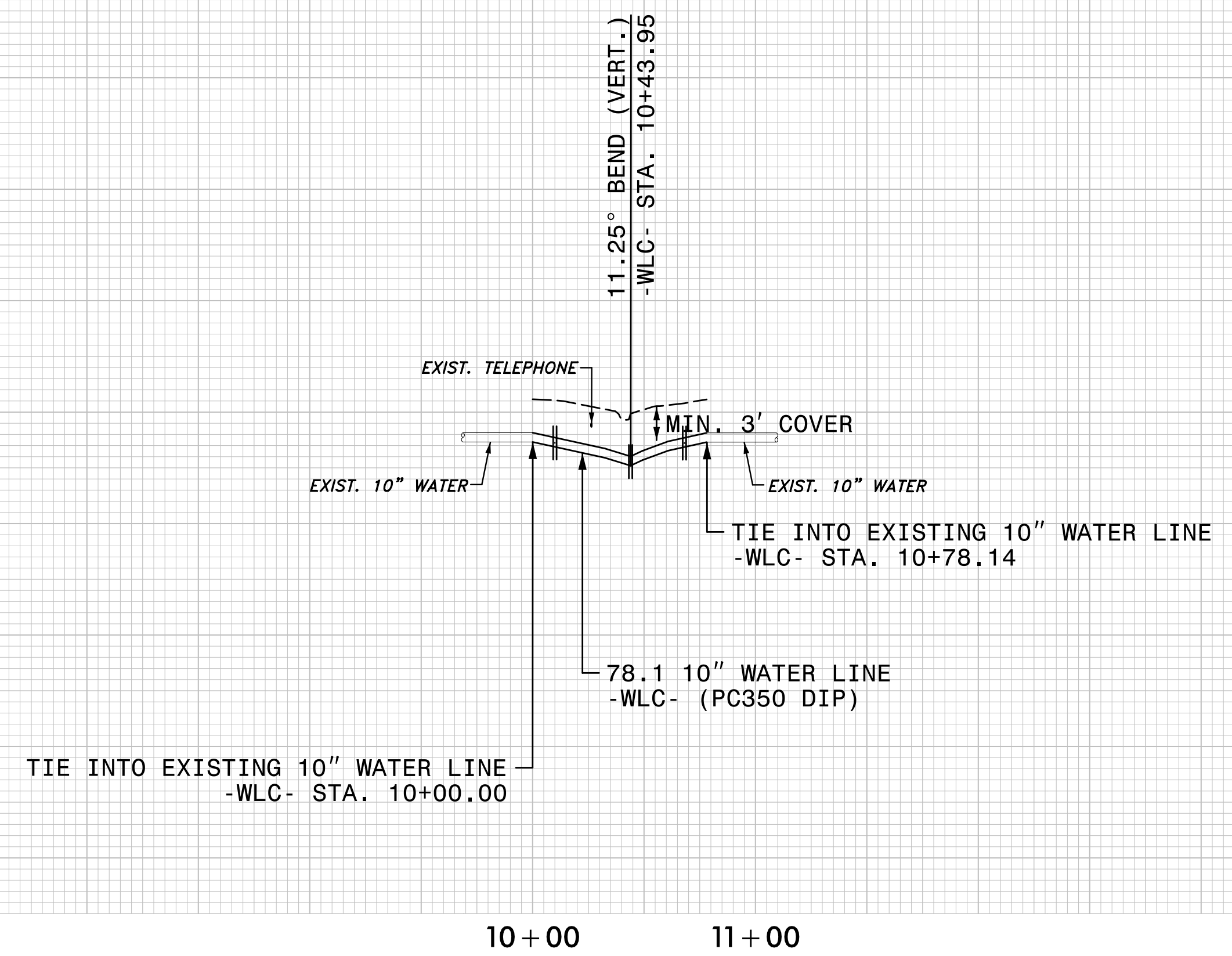
5/14/99

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SCALE: 1" = 50' HORIZONTAL  
1" = 10' VERTICAL

NOTES:  
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO FORCED SANITARY SEWER CONSTRUCTION.  
2. ALL PIPE TO BE RESTRAINED

**PROP. 10" WATER LINE -WLC- COREY RD**



SEE SHEET UC-4 FOR -WLC- PLAN

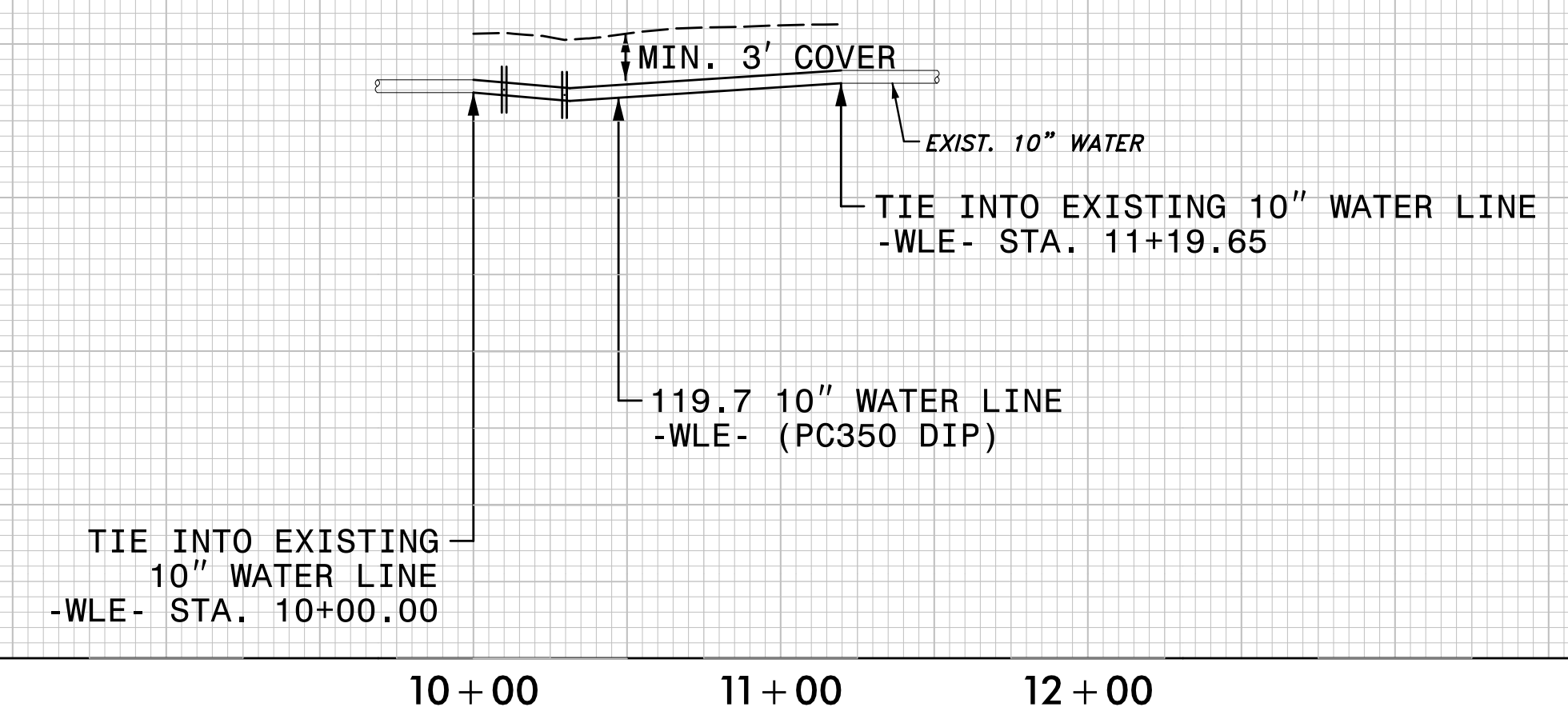
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MURPHY  
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SCALE: 1" = 50' HORIZONTAL  
1" = 10' VERTICAL

NOTES:  
1. LOCATION AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO WATER LINE CONSTRUCTION.  
2. ALL PIPE TO BE RESTRAINED

**PROP. 10" WATER LINE -WLE- COREY RD**



SEE SHEET UC-4 FOR -WLE- PLAN

PROJECT REFERENCE NO.	SHEET NO.
W-5702M	UC-6
DESIGNED BY: SHM	
DRAWN BY: SHM	
CHECKED BY: ASV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

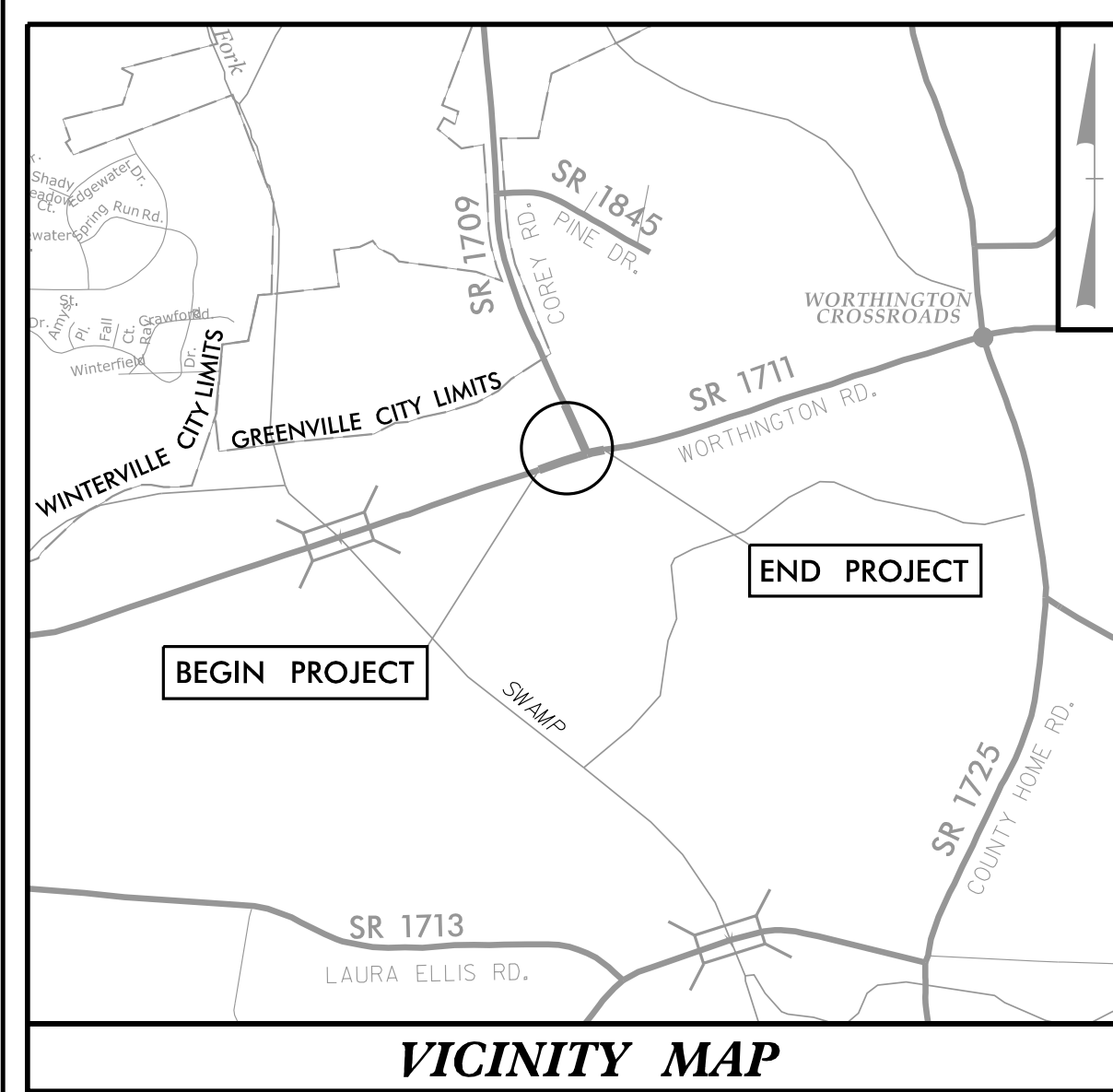
**UTILITY CONSTRUCTION**

**stv** STV Engineers, Inc.  
900 West Trade St., Suite 715  
Charlotte, NC 28202  
NC License Number F-0991

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25% PLANS 12/19/2019

**TIP PROJECT: W-5702M**



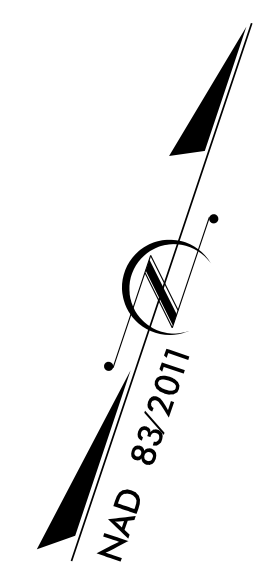
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**UTILITIES BY OTHERS PLANS  
PITT COUNTY**

**LOCATION: INTERSECTION OF SR 1711 (WORTHINGTON RD.)  
AND SR 1709 (COREY RD.)**  
**TYPE OF WORK: AERIAL POWER, & CATV, BURIED  
TELEPHONE, & FIBER OPTIC CABLE**

T.I.P. NO.	SHEET NO.
W-5702M	UO-1

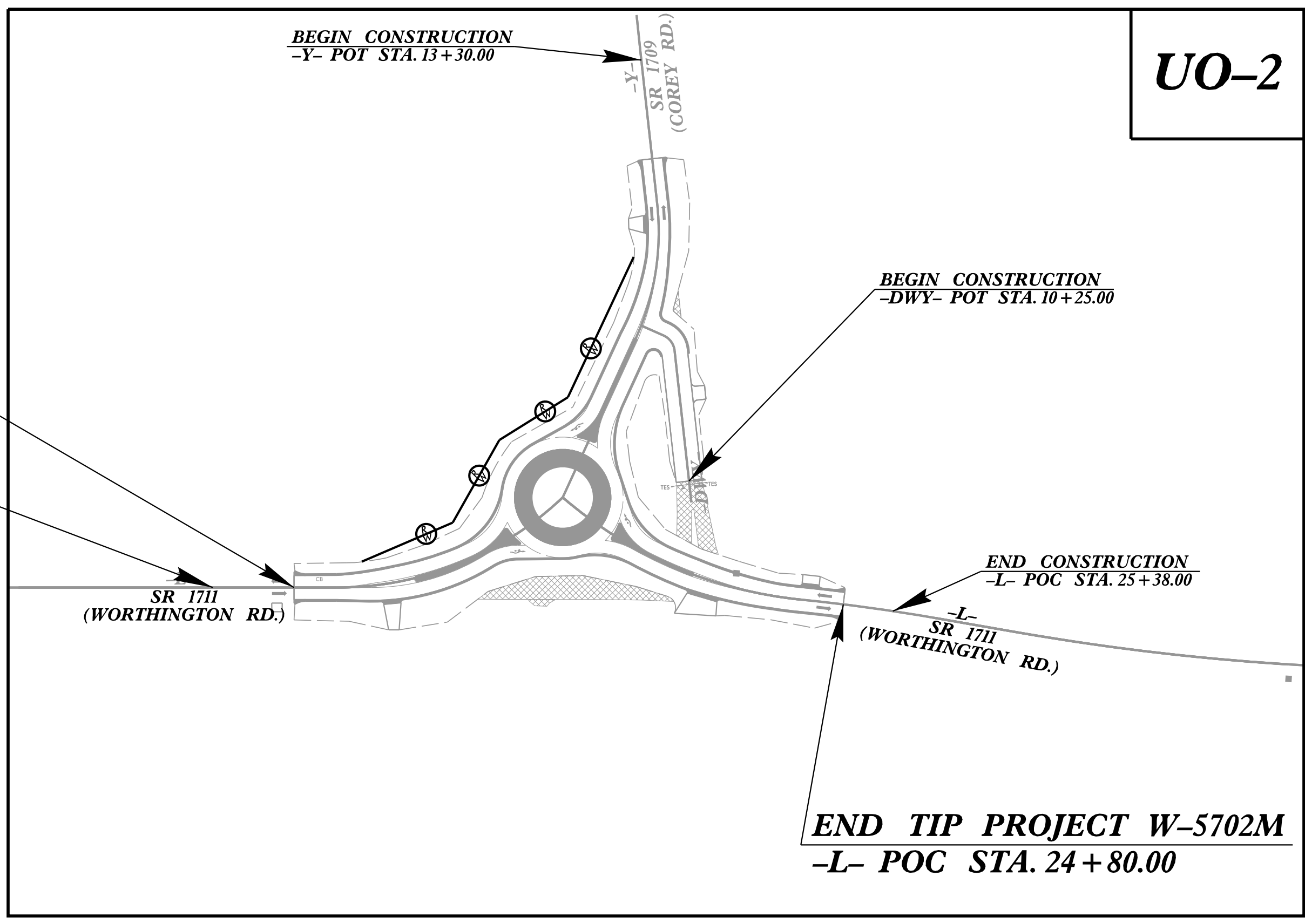
**NOTE:**  
ALL UTILITY WORK SHOWN ON THIS SHEET IS DONE BY OTHERS.  
NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



**BEGIN TIP PROJECT W-5702M**  
**-L- POT STA. 17+88.00**

**BEGIN CONSTRUCTION**  
**-L- POT STA. 16+94.00**

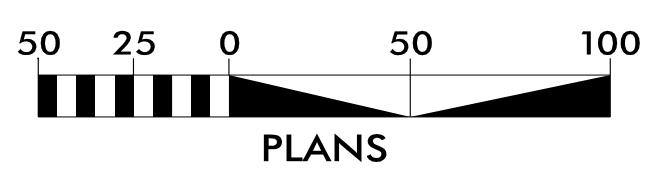
**TO SR 1700**  
**(OLD TAR RD.)**



**UO-2**

**END TIP PROJECT W-5702M**  
**-L- POC STA. 24+80.00**

**GRAPHIC SCALES**



**INDEX OF SHEETS**

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	UBO PLAN SHEET

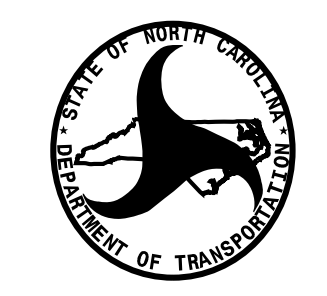
**UTILITY OWNERS WITH CONFLICTS**

- (A) POWER - GREENVILLE UTILITIES COMMISSION
- (B) TELECOMMUNICATIONS - CENTURY LINK
- (C) TELECOMMUNICATIONS - CONTERRA
- (D) CATV - SUDDEN LINK
- (E) NATURAL GAS - GREENVILLE UTILITIES COMMISSION

PREPARED IN THE OFFICE OF:



**Nicholas V. Asaro** PROJECT MANAGER  
**James R. Montgomery** PROJECT UTILITY COORDINATOR



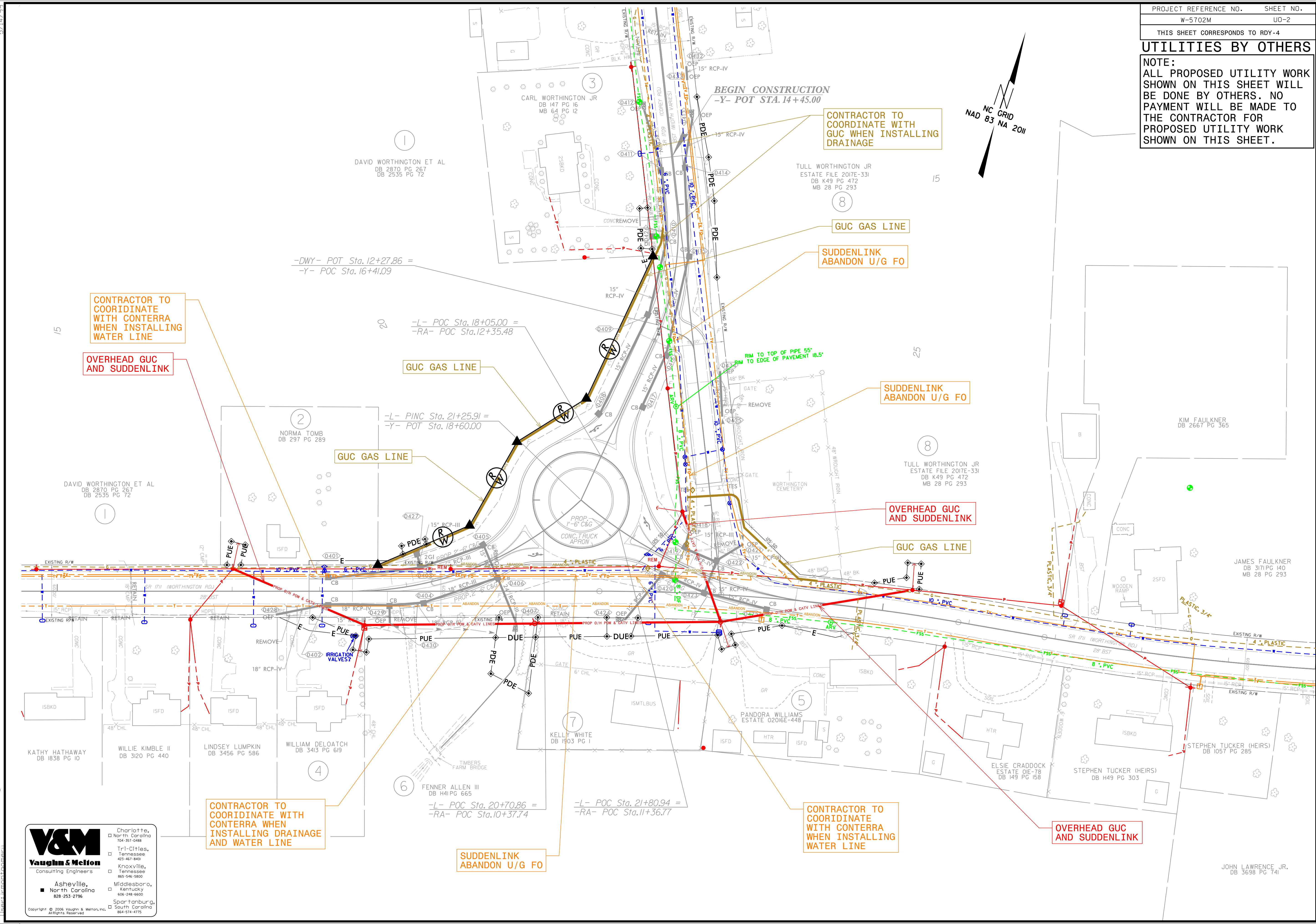
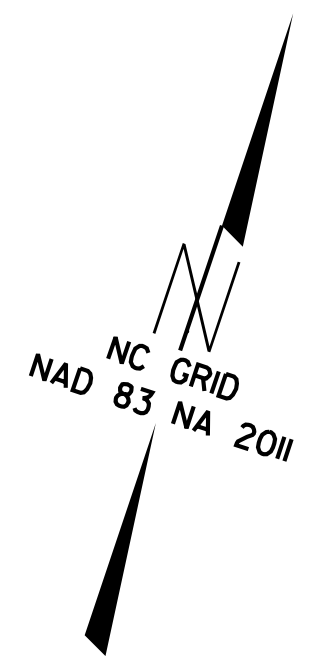
**DIVISION OF HIGHWAYS  
DIVISION 2**  
2815 Rouse Road Extension  
Kinston, NC 28504

**Lang Jones** PROJECT MANAGER  
**David Kramer** DIV. UTILITY COORDINATOR



### UTILITIES BY OTHERS

**NOTE:**  
 ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



CONTRACTOR TO COORDINATE WITH CONTERRA WHEN INSTALLING WATER LINE

OVERHEAD GUC AND SUDDENLINK

CONTRACTOR TO COORDINATE WITH GUC WHEN INSTALLING DRAINAGE

GUC GAS LINE

SUDDENLINK ABANDON U/G FO

GUC GAS LINE

SUDDENLINK ABANDON U/G FO

GUC GAS LINE

OVERHEAD GUC AND SUDDENLINK

GUC GAS LINE

CONTRACTOR TO COORDINATE WITH CONTERRA WHEN INSTALLING DRAINAGE AND WATER LINE

SUDDENLINK ABANDON U/G FO

CONTRACTOR TO COORDINATE WITH CONTERRA WHEN INSTALLING WATER LINE


OVERHEAD GUC AND SUDDENLINK

**V&M**  
 Vaughn & Melton  
 Consulting Engineers

Charlotte, North Carolina 704-397-0488  
 Tri-Cities, Tennessee 423-467-9400  
 Knoxville, Tennessee 865-546-5800  
 Asheville, North Carolina 828-253-2196  
 Middleboro, Kentucky 606-248-6600  
 Spartanburg, South Carolina 864-574-4775

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PROJ. REFERENCE NO.	SHEET NO.
W-5702M	X-1
 <b>STV Engineers, Inc.</b> 1600 Perimeter Park Dr. Suite 225 Morrisville, NC 27560 NC License Number F-0991	

# CROSS SECTION INDEX OF SHEETS

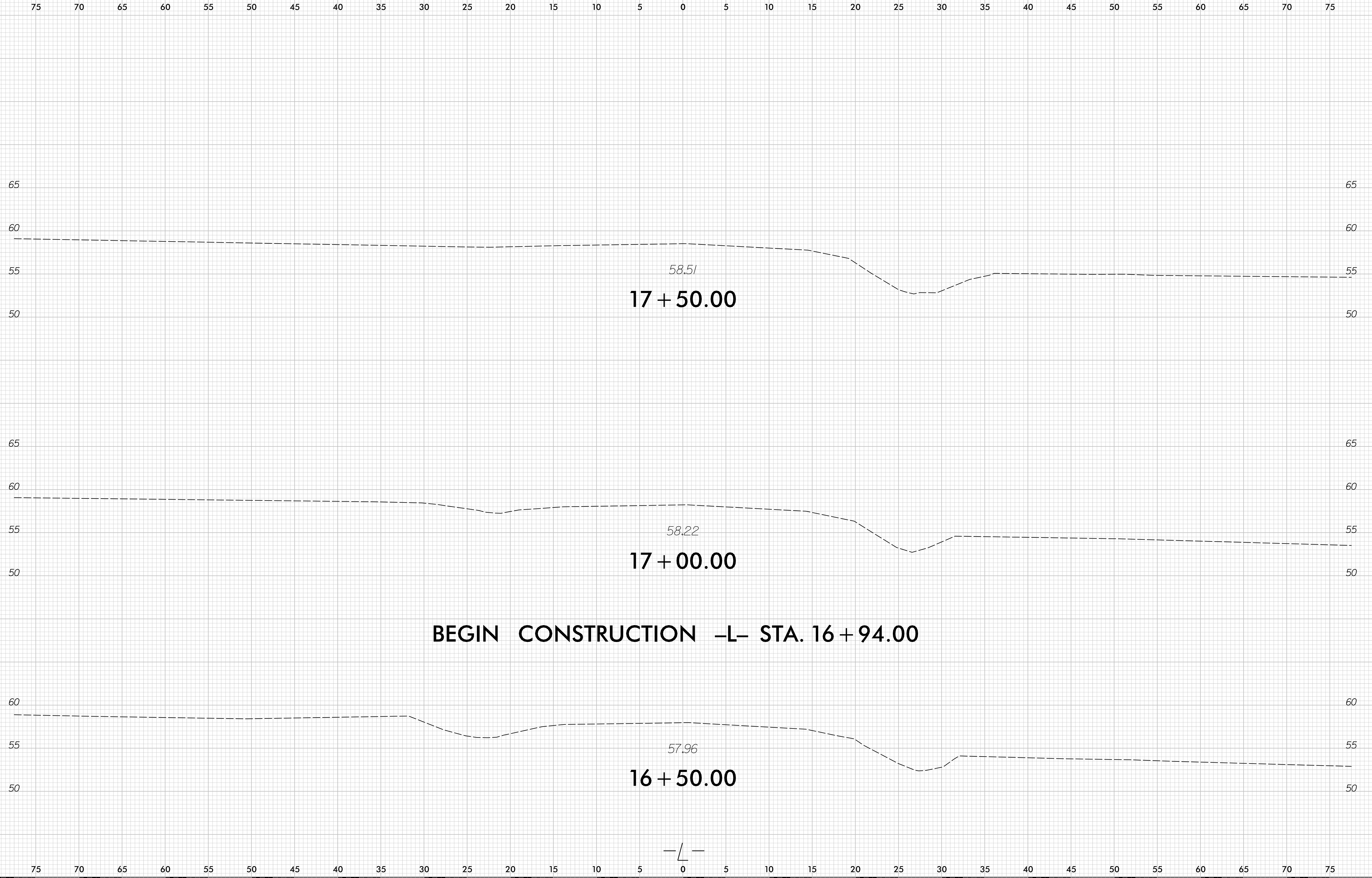
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X-1	CROSS SECTION INDEX OF SHEETS
X-1A	CROSS SECTION SUMMARY SHEET
X-2 TO X-8	-L- CROSS SECTIONS
X-9 TO X-11	-Y- CROSS SECTIONS
X-12 TO X-15	-RA- CROSS SECTIONS
X-16 TO X-17	-DWY- CROSS SECTIONS



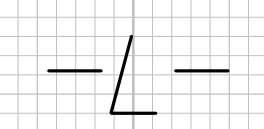


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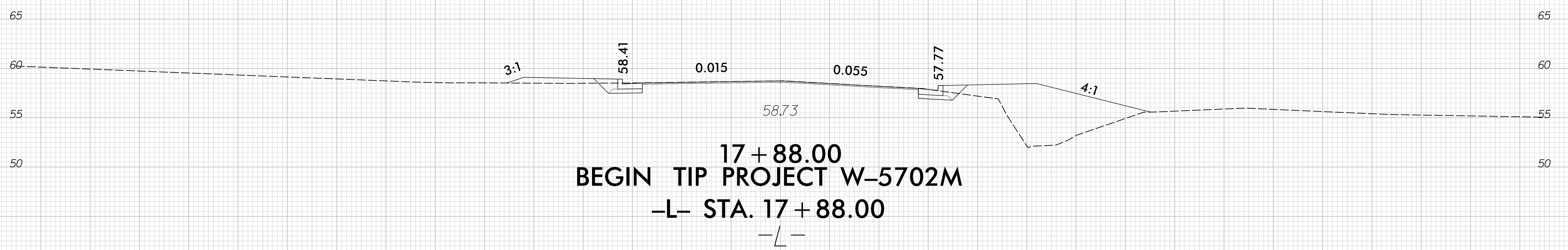
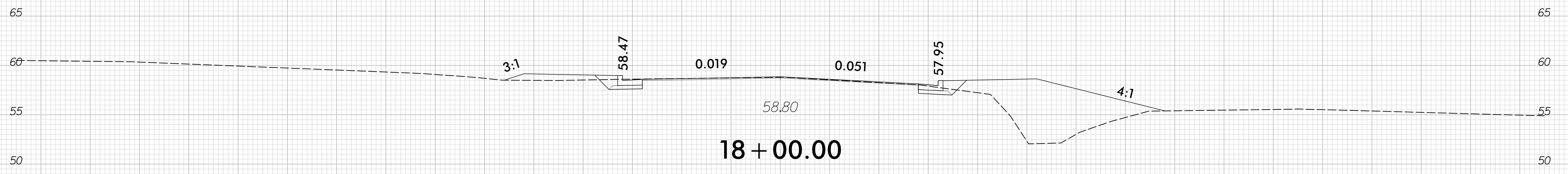
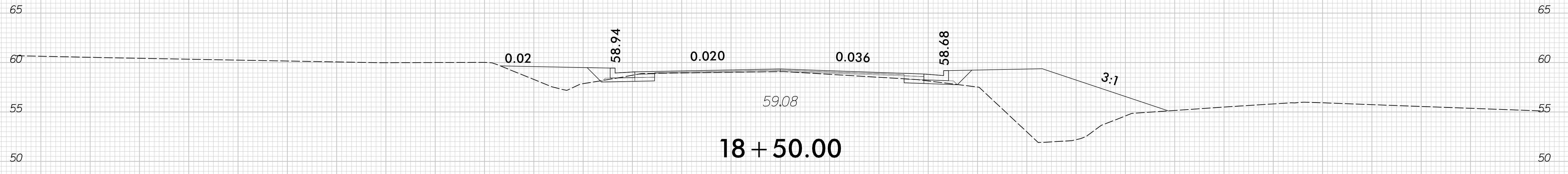




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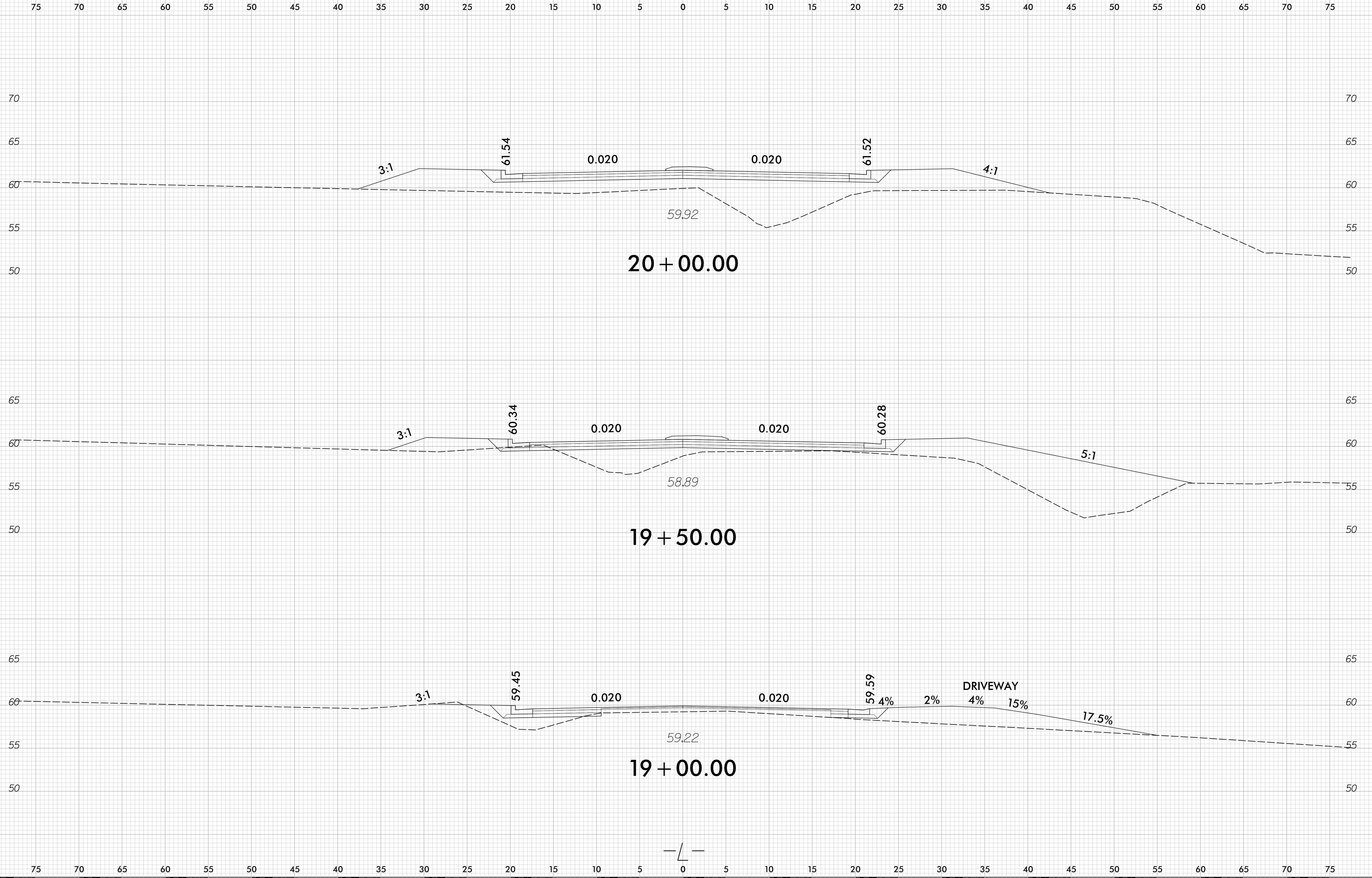


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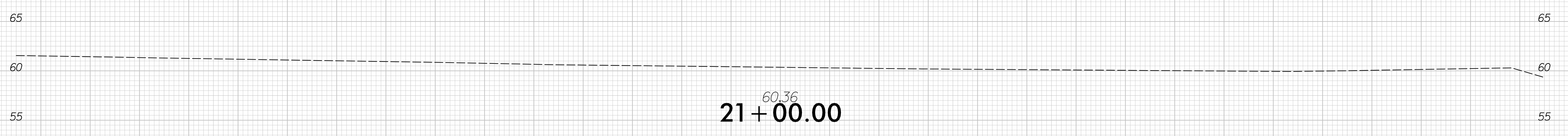
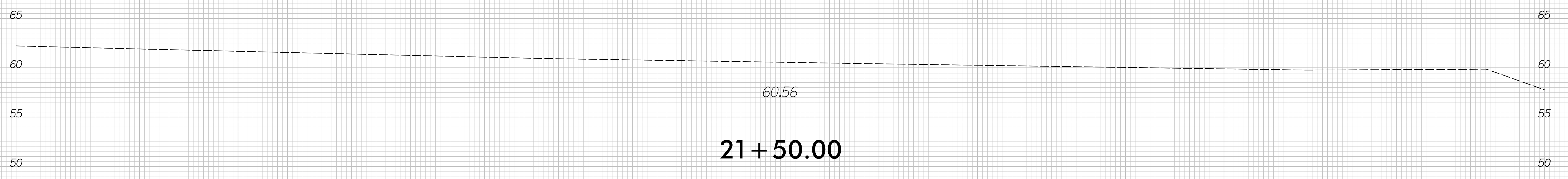


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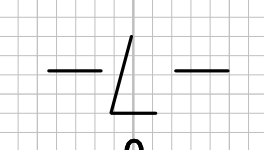
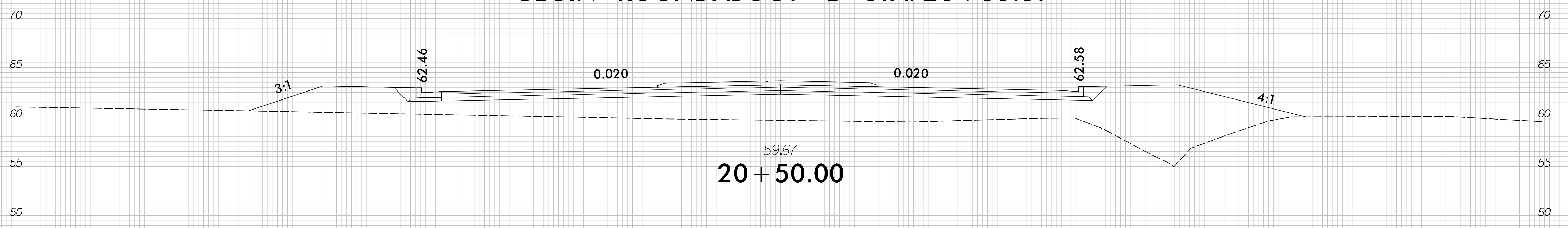
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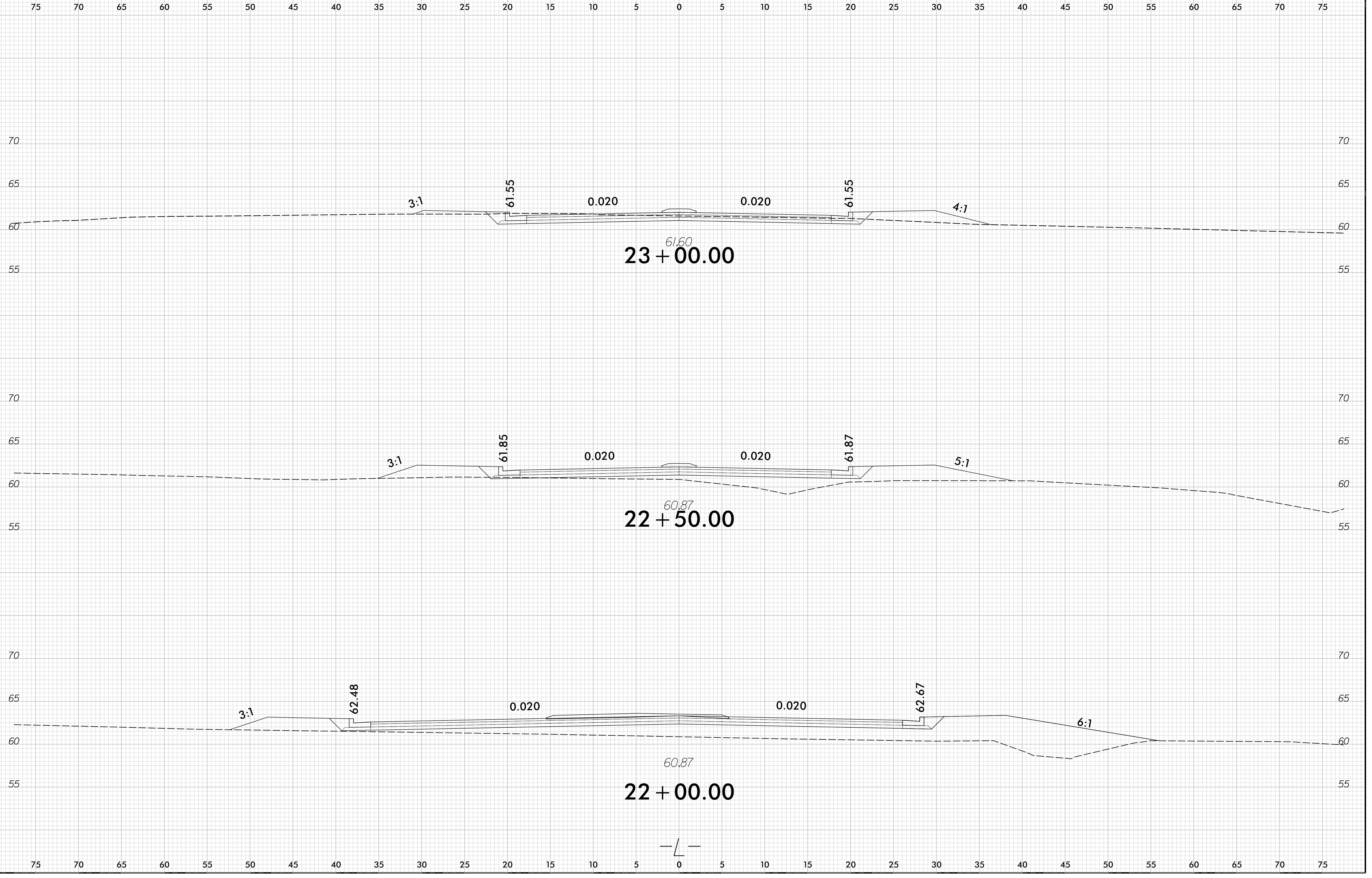
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6/23/16

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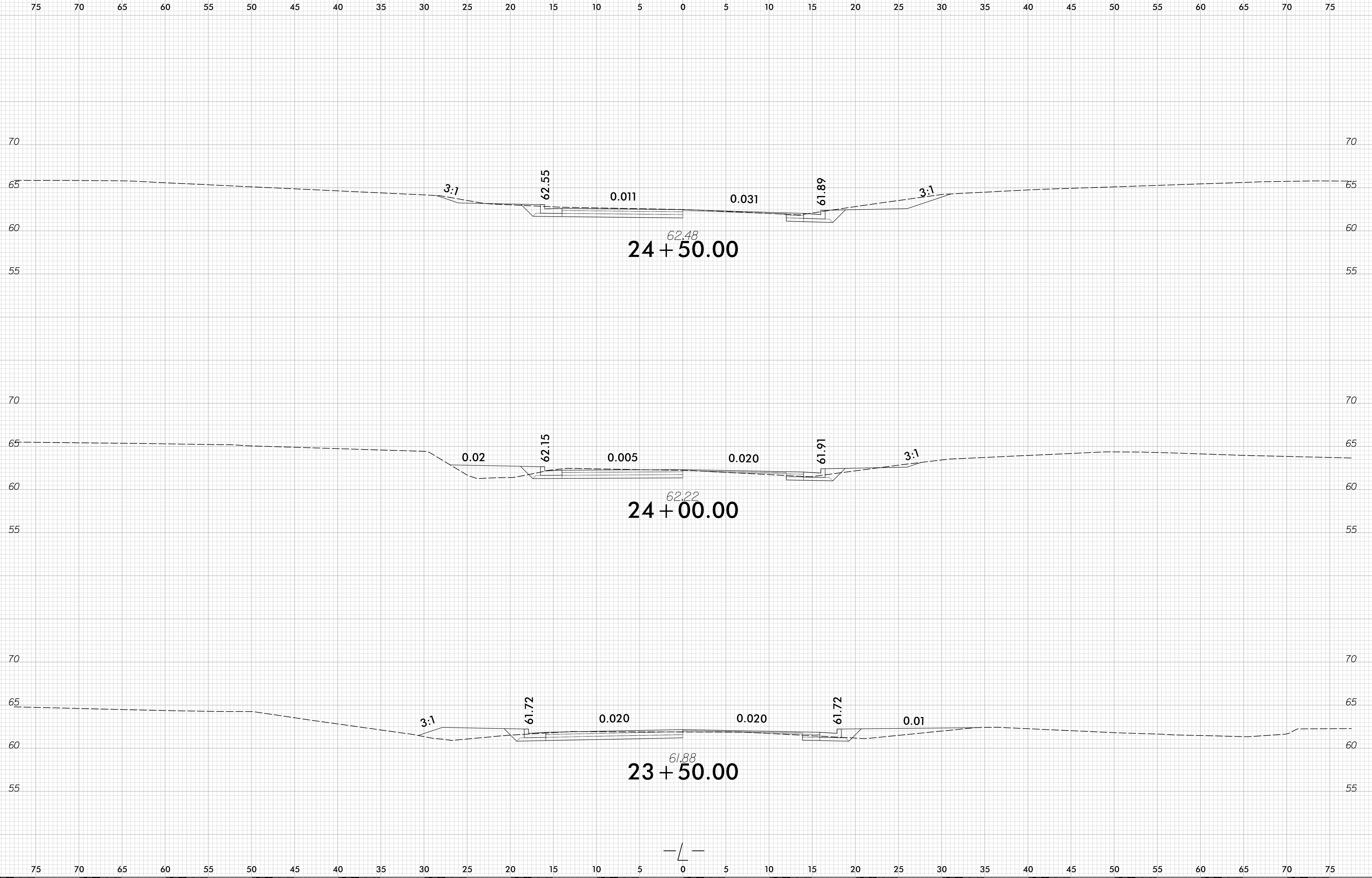


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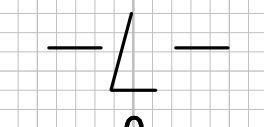


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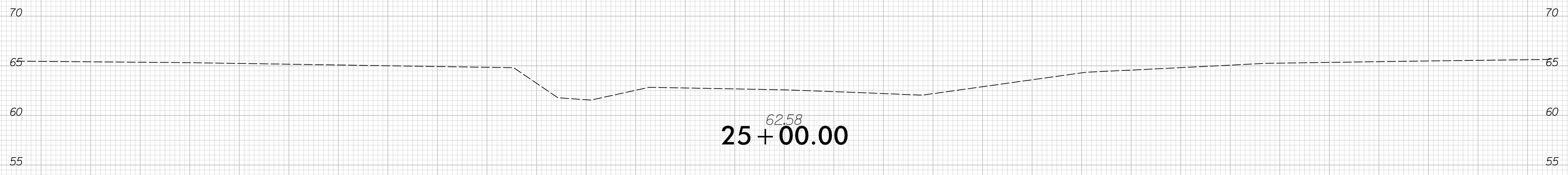


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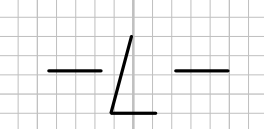
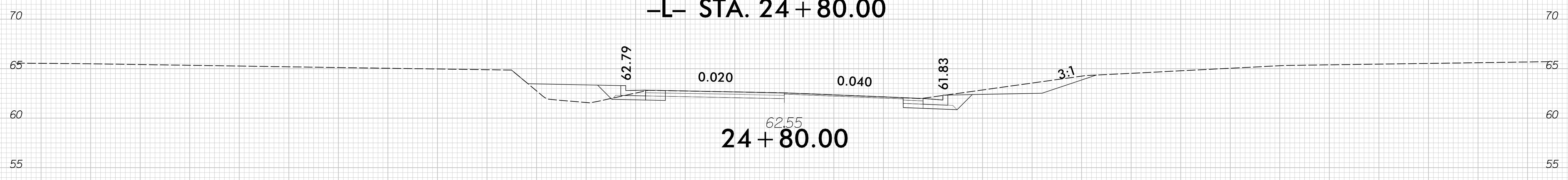
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**END CONSTRUCTION -L- STA. 25 + 38.00**



**END TIP PROJECT W-5702M  
-L- STA. 24 + 80.00**



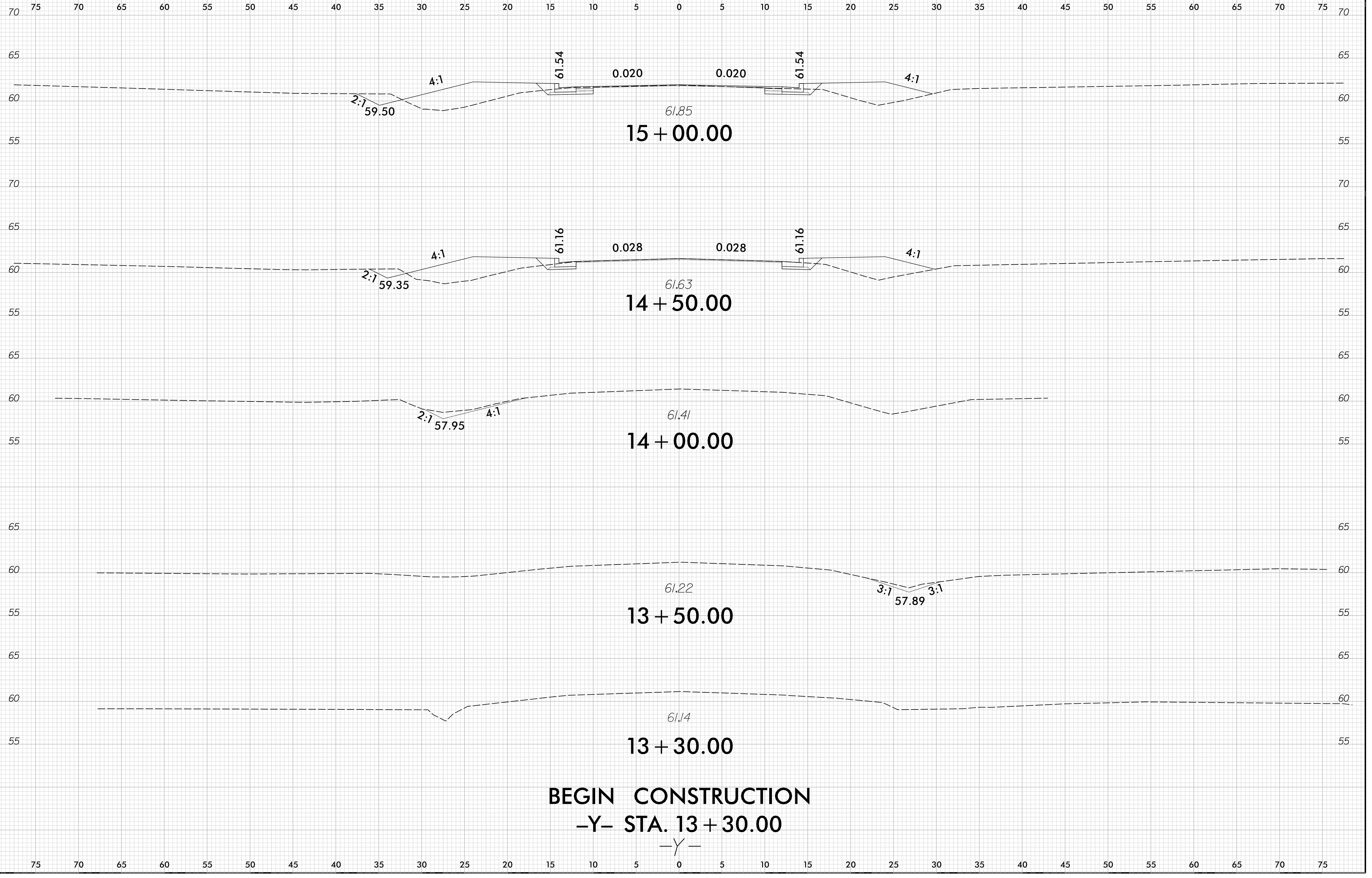
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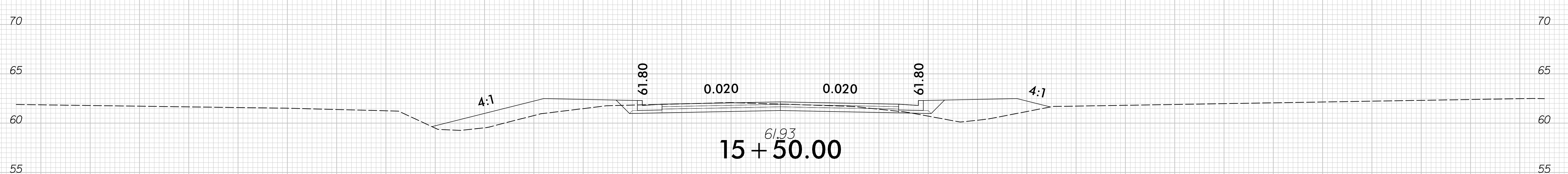
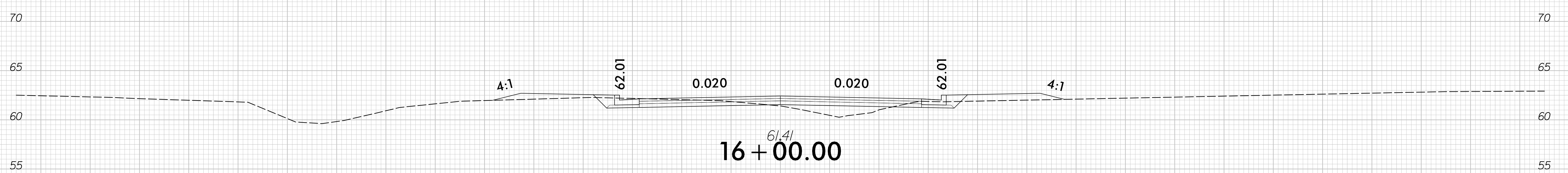
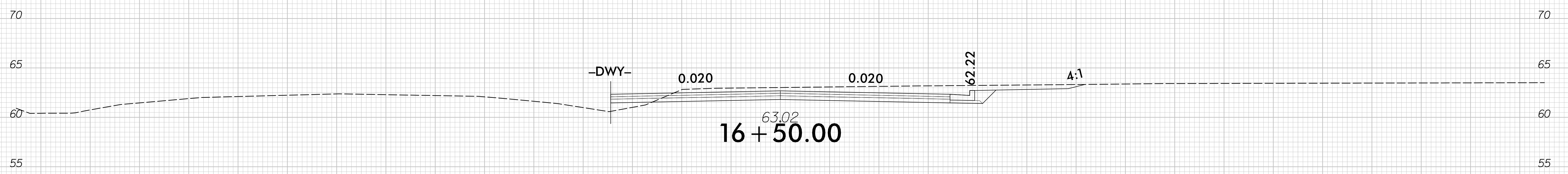


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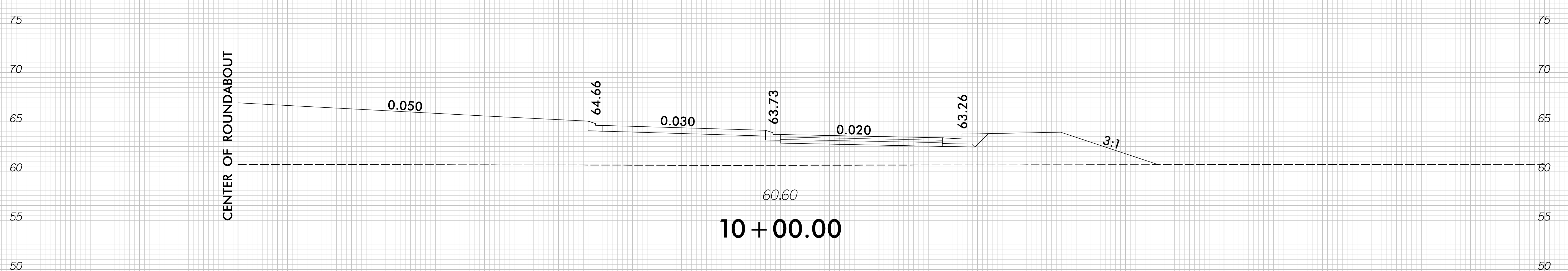
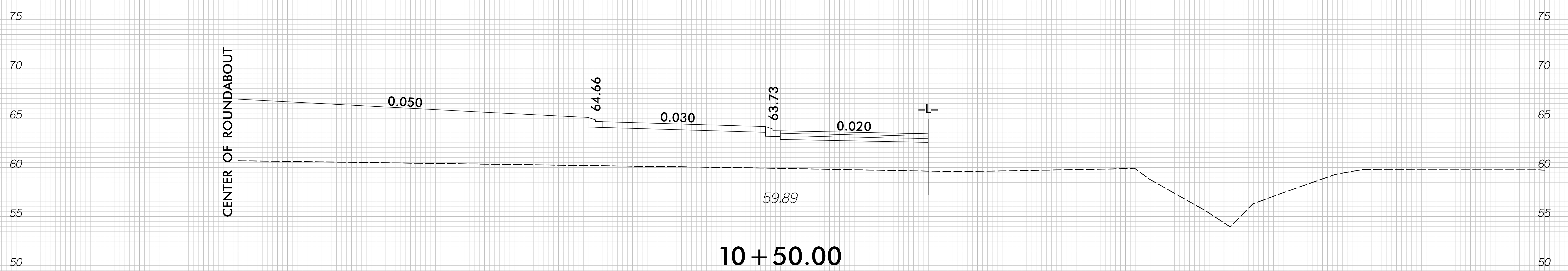




6/23/16

0 2.5 5	PROJ. REFERENCE NO. W-5702M	SHEET NO. X-12
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

-RA-

5/12/2023  
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turpinWD

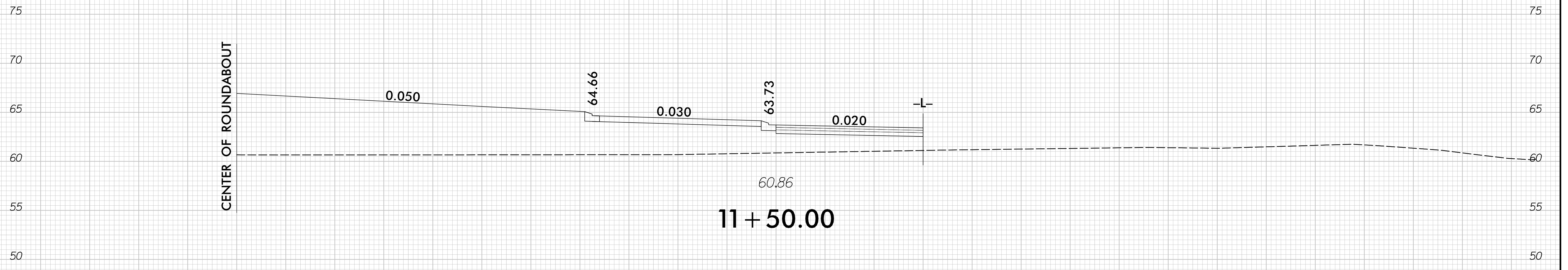


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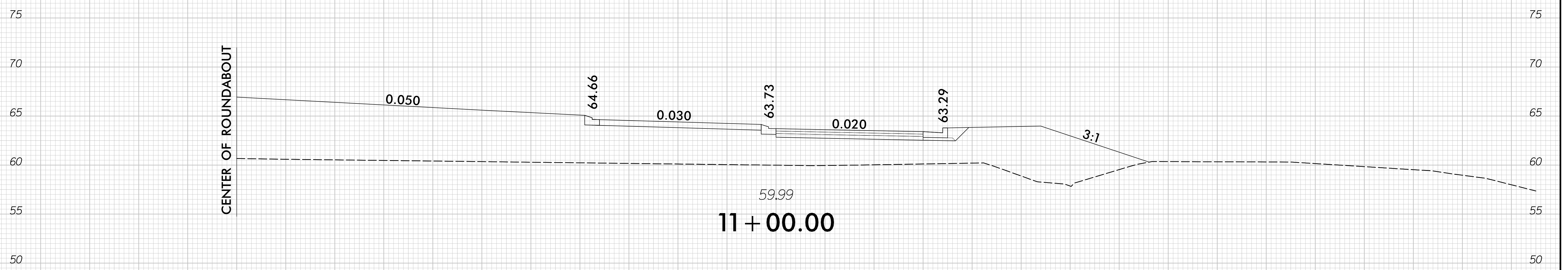
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CENTER OF ROUNDABOUT



11 + 50.00

CENTER OF ROUNDABOUT



11 + 00.00

-RA-

5/12/2023  
R:\Roadway\Xsec\W5702M\_RDY\_XPL\_RA.dgn  
turpinWD

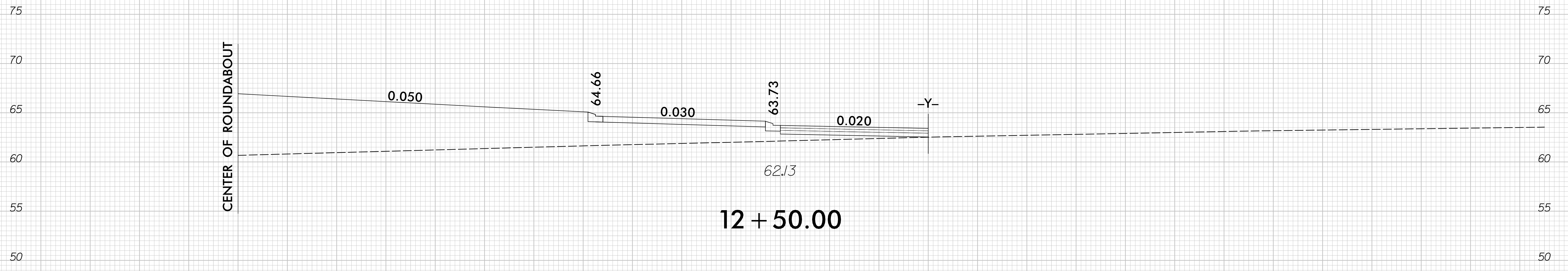
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6/23/16

0 2.5 5	PROJ. REFERENCE NO. W-5702M	SHEET NO. X-14
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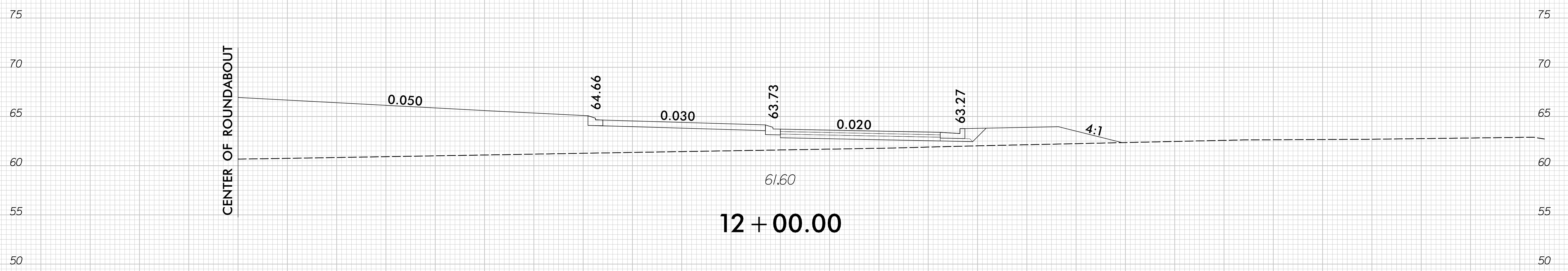
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CENTER OF ROUNDABOUT



12 + 50.00

CENTER OF ROUNDABOUT



12 + 00.00

-RA-

5/12/2023  
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turpinjw

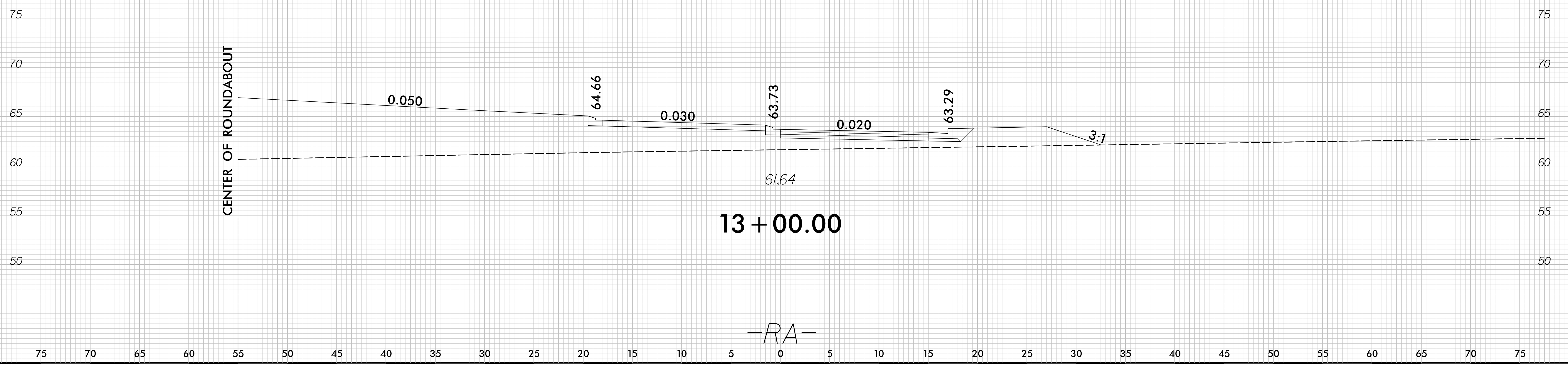
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6/23/16

0 2.5 5	PROJ. REFERENCE NO. W-5702M	SHEET NO. X-15
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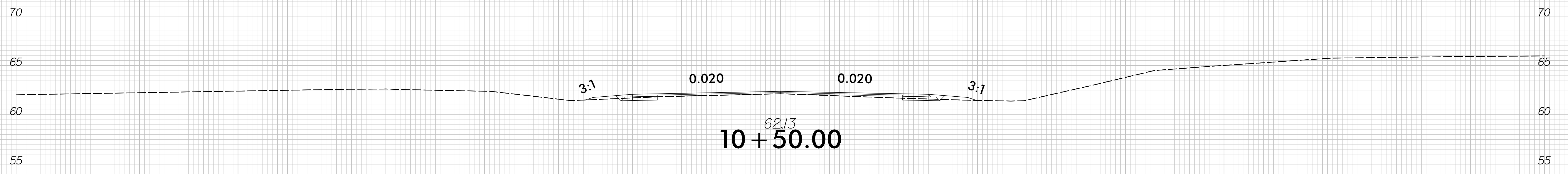
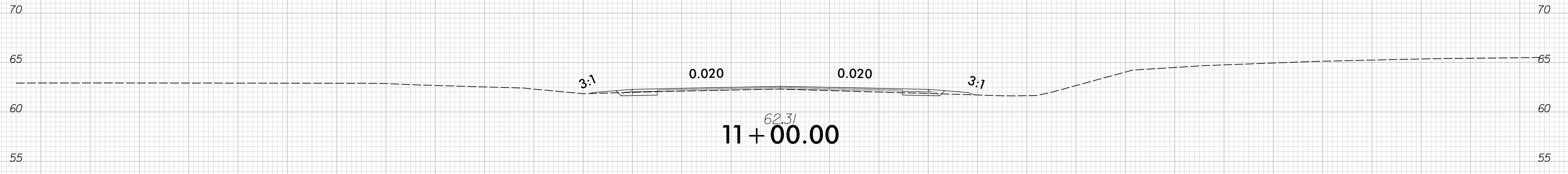


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TurpinWD

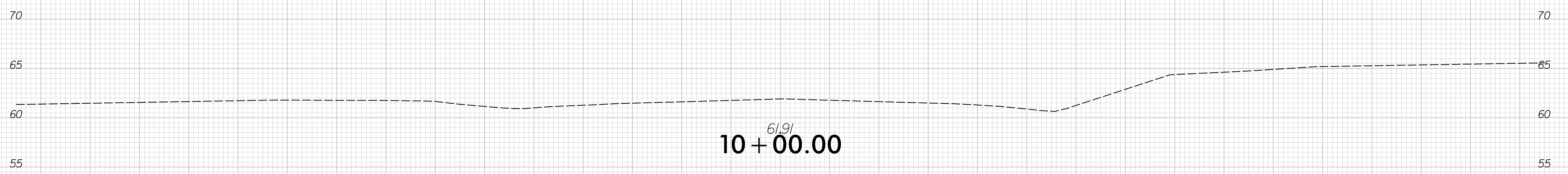
6/23/16

0 2.5 5	PROJ. REFERENCE NO. W-5702M	SHEET NO. X-16
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**BEGIN CONSTRUCTION**  
**-DWY- STA. 10 + 19.00**



-DWY-

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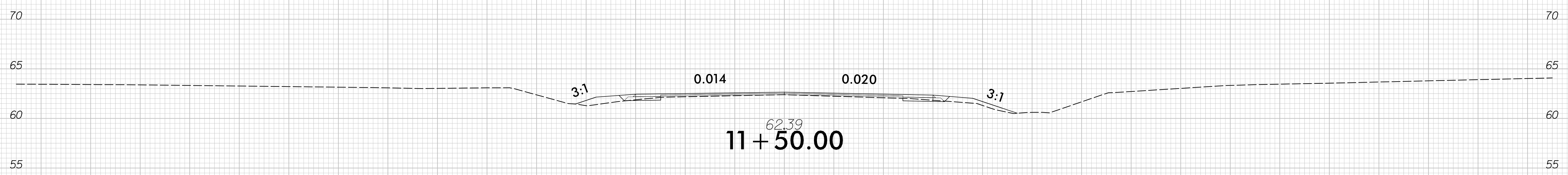
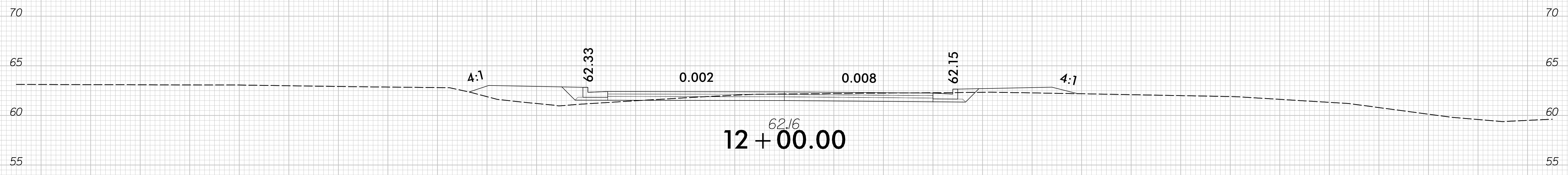
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6/23/16

0 2.5 5	PROJ. REFERENCE NO. W-5702M	SHEET NO. X-17
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**END CONSTRUCTION  
-DWY- STA. 12 + 11.11**



-DWY-

5/12/2023  
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