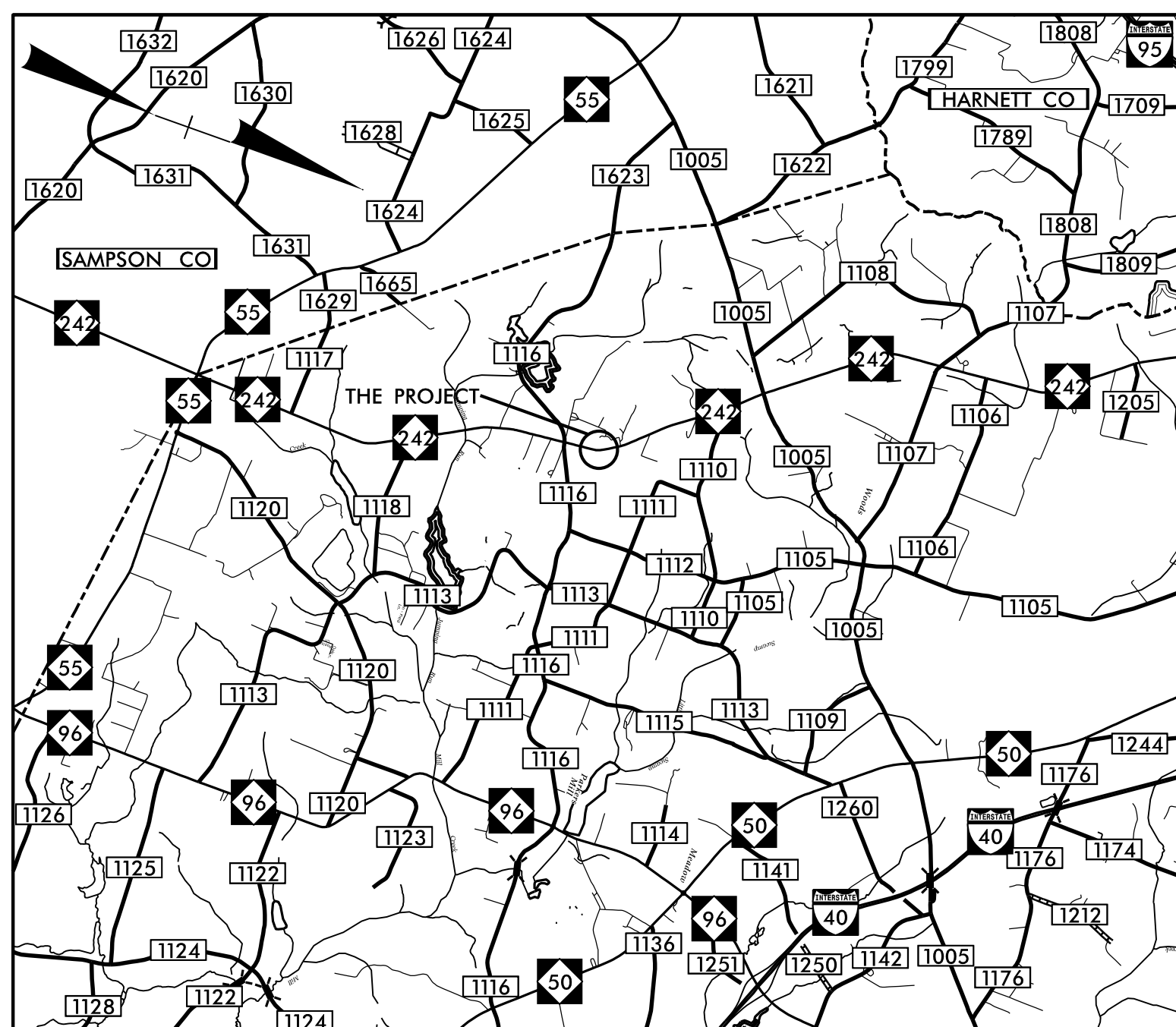


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numbers appear on each page, on the dates appearing  
with their signature on that page.**

**This file or an individual page  
shall not be considered a certified document.**

See Sheet 1-A For Index of Sheets



**VICINITY MAP**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**JOHNSTON COUNTY**

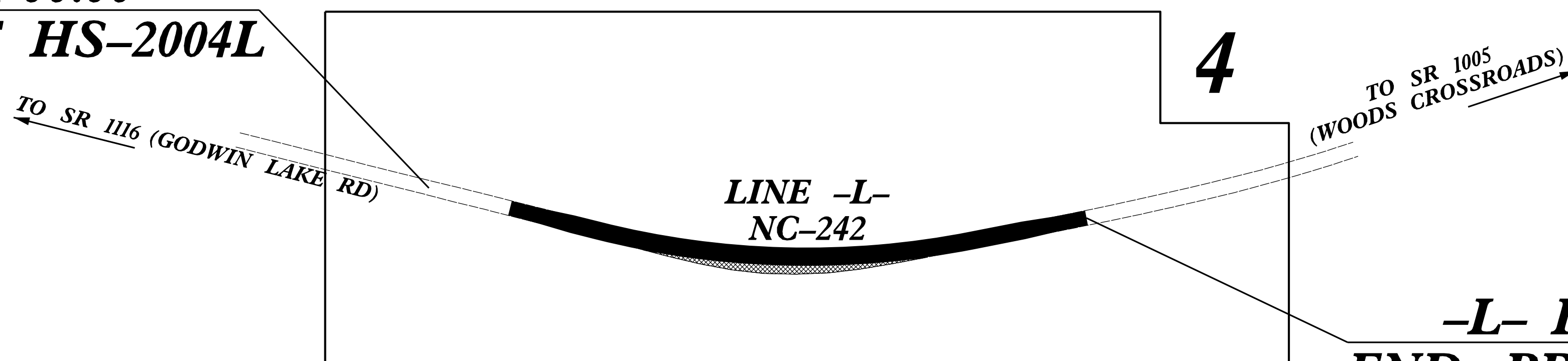
**LOCATION: NC-242 BETWEEN 0.08 MILES AND 0.31 MILES  
NORTH OF SR-1116 (GODWIN LAKE ROAD).**

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

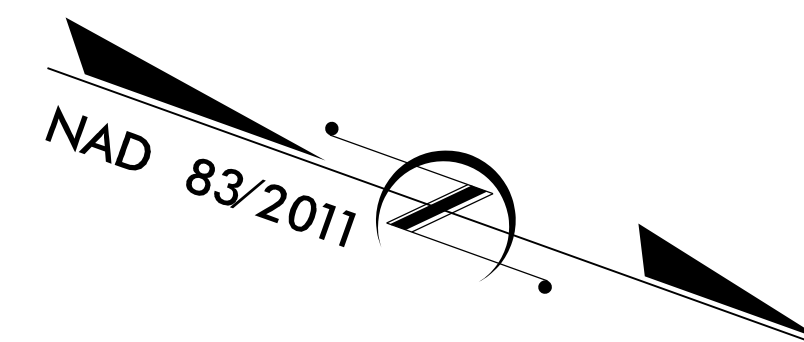
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2004L	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
49306.1.13	0242007	PE	
49306.2.13	0242007	RW & UTILITY	
49306.3.13	0242007	CONST.	

**TIP PROJECT: HS-2004L**

**-L- POT 13+00.00  
BEGIN PROJECT HS-2004L**

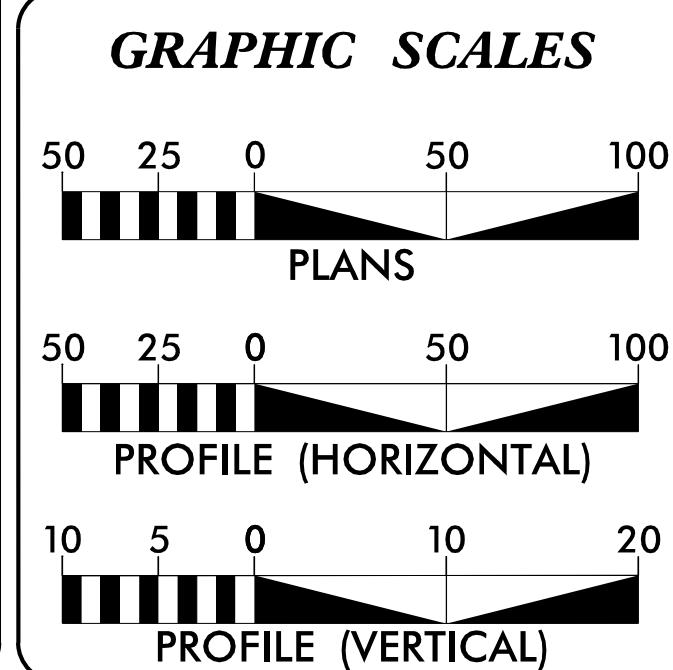


**-L- POT 23+40.00  
END PROJECT HS-2004L**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**



**DESIGN DATA**

ADT 2019 = 2900

---

FUNCTIONAL CLASS  
MAJOR COLLECTOR  
SUBREGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT HS-2004L = 0.197 MILES  
TOTAL LENGTH TIP PROJECT HS-2004L = 0.197 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
Division 4 DDC  
509 Ward Blvd., Wilson NC, 27895

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
FEBRUARY 23, 2023

**LETTING DATE:**  
AUGUST 22, 2023

**KEITH EASON, PE**  
PROJECT ENGINEER

**D. R. ETHRIDGE**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

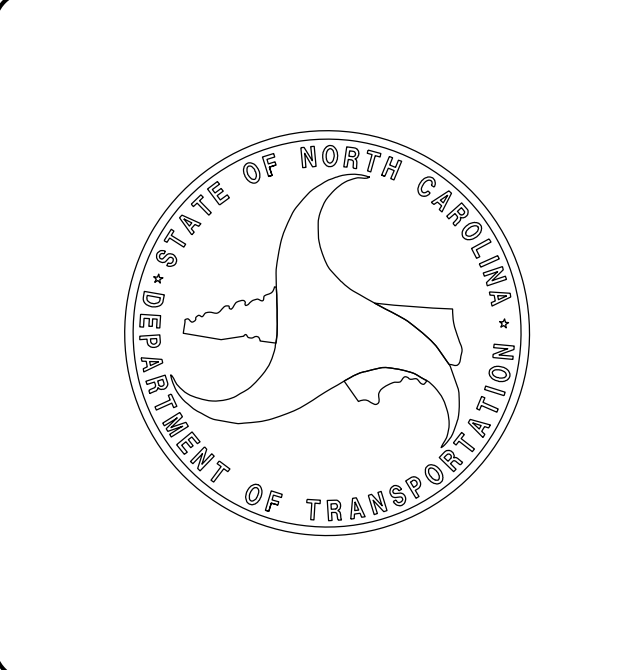
06/28/2023

DocuSigned by:  
*Erin P. Suler*  
SIGNATURE

**ROADWAY DESIGN ENGINEER**

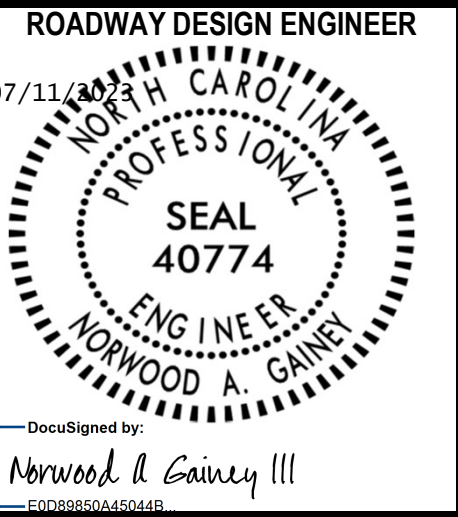
06/28/2023

DocuSigned by:  
*Norwood A. Gaiway III*  
SIGNATURE



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJ. REFERENCE NO.	SHEET NO.
HS-2004L	1-A



SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES - DRAINAGE SUMMARIES, EARTHWORK, PARCEL INDEX, REMOVAL OF EXISTING ASPHALT PAVEMENT AND RIP RAP & GEOTEXTILE FOR DRAINAGE
4	PLAN & PROFILE SHEETS
RW-1 THRU RW-7	SURVEY CONTROL, EXISTING CENTERLINES RIGHT OF WAY, EASEMENTS AND PROPERTY TIES
EC-1 THRU EC-5	EROSION CONTROL PLANS
UC-1 THRU UC-4	UTILITY CONSTRUCTION PLANS
X-1A	CROSS-SECTION INDEX AND CROSS-SECTION SUMMARY
X-2 THRU X-5	CROSS-SECTIONS

**2018 ROADWAY ENGLISH STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N. C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N. C., DATED JANUARY, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

- DIVISION 2 - EARTHWORK
  - 200.03 METHOD OF CLEARING - METHOD III
  - 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
  - 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
  - 225.06 METHOD OF GRADING SIGHT DISTANCE AT INTERSECTIONS
- DIVISION 3 - PIPE CULVERTS
  - 300.01 METHOD OF PIPE INSTALLATION
  - 310.10 DRIVEWAY PIPE CONSTRUCTION
- DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
  - 560.01 METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD I
- DIVISION 8 - INCIDENTALS
  - 840.71 CONCRETE AND BRICK PIPE PLUG
  - 840.72 PIPE COLLAR

**GENERAL NOTES: 2018 SPECIFICATIONS**

- GRADE LINE:**  
**GRADING AND SURFACING OR RESURFACING AND WIDENING:**  
 THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
- CLEARING:**  
 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
- SUPERELEVATION:**  
 ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04. USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.
- SHOULDER CONSTRUCTION:**  
 ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01
- SIDE ROADS:**  
 THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.
- TEMPORARY SHORING:**  
 SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.
- SUBSURFACE PLANS:**  
 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.
- UTILITIES:**  
 UTILITY OWNERS ON THIS PROJECT ARE:  
 JOHNSTON CO. WATER, BRIGHTSPEED AND DUKE ENERGY.  
  
 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 OTHERS.

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

Note: Not to Scale

### BOUNDARIES AND PROPERTY:

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

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	◻
Area Outline	◻
Cemetery	+
Building	◻
School	◻
Church	✚
Dam	-----

### HYDROLOGY:

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

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	◻
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY & PROJECT CONTROL:

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

### ROADS AND RELATED FEATURES:

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

Woods Line	-----
Orchard	-----
Vineyard	-----

### EXISTING STRUCTURES:

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

### UTILITIES:

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

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

### TELEPHONE:

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

### WATER:

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

### TV:

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

### GAS:

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

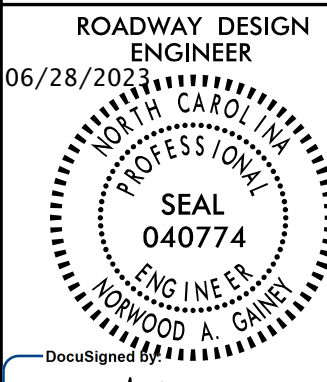
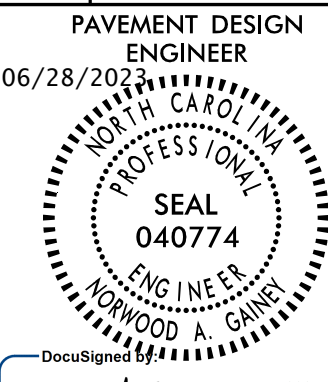
### SANITARY SEWER:

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

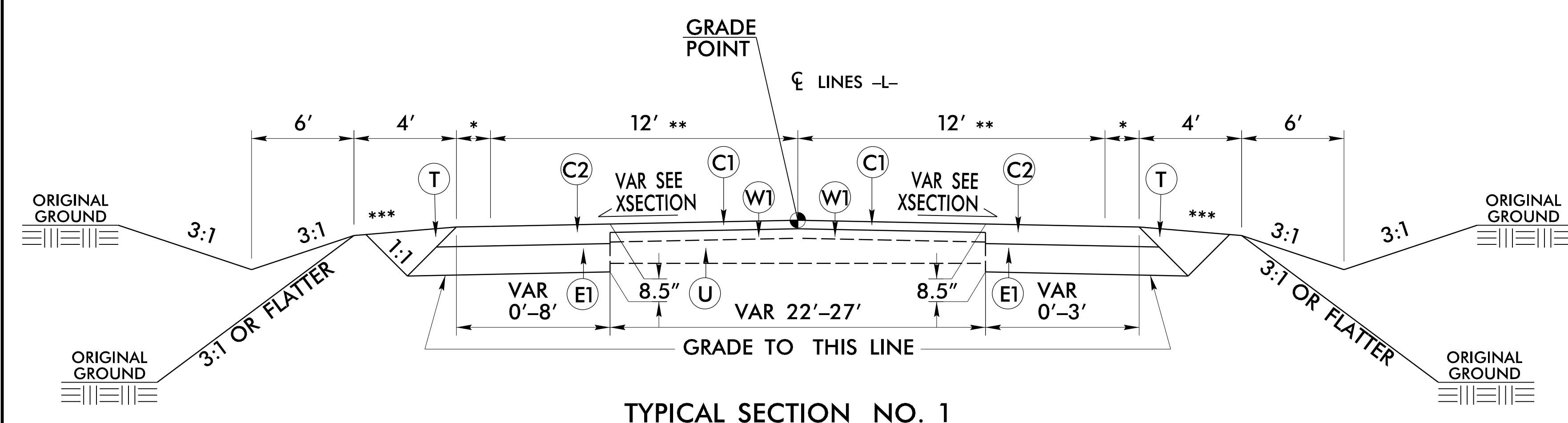
### MISCELLANEOUS:

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

# PAVEMENT SCHEDULE

PROJECT REFERENCE NO. <i>HS-2004L</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER 06/28/2023 	PAVEMENT DESIGN ENGINEER 06/28/2023 
DocuSigned by: <b>Norwood A. Gainer III</b> DocuSigned ID: 60080804460446	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.	D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.	U	EXISTING PAVEMENT.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS.	E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" DEPTH.	E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.	NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.	
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YARD.	T	EARTH MATERIAL.		



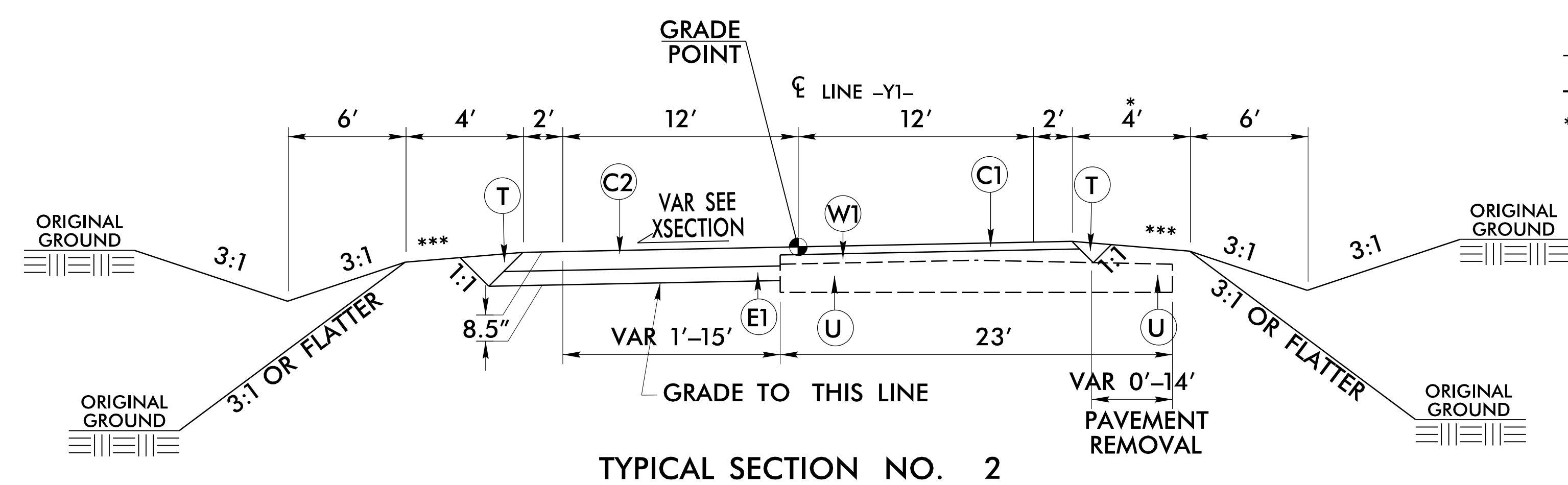
**USE TYPICAL SECTION NO. 1**

-L- STA 14+30.00 TO -L- STA 16+45.00  
 -L- STA 21+45.00 TO -L- STA 23+40.00  
 \*\*\* SEE ROADWAY STANDARD DRAWING 560.01

\* NOTE:  
 0' -L- STA 14+30 TO -L- STA 14+80  
 0' -L- STA 22+90 TO -L- STA 23+40  
 VAR 0' TO 2' -L- STA 14+80 TO -L- STA 15+30  
 VAR 0' TO 2' -L- STA 22+40 TO -L- STA 22+90  
 2' -L- STA 15+30 TO -L- STA 22+40

\*\* NOTE VAR 12' TO EXISTING  
 -L- STA 14+30.00 TO -L- STA 14+80.00  
 -L- STA 22+90.00 TO -L- STA 23+40.00

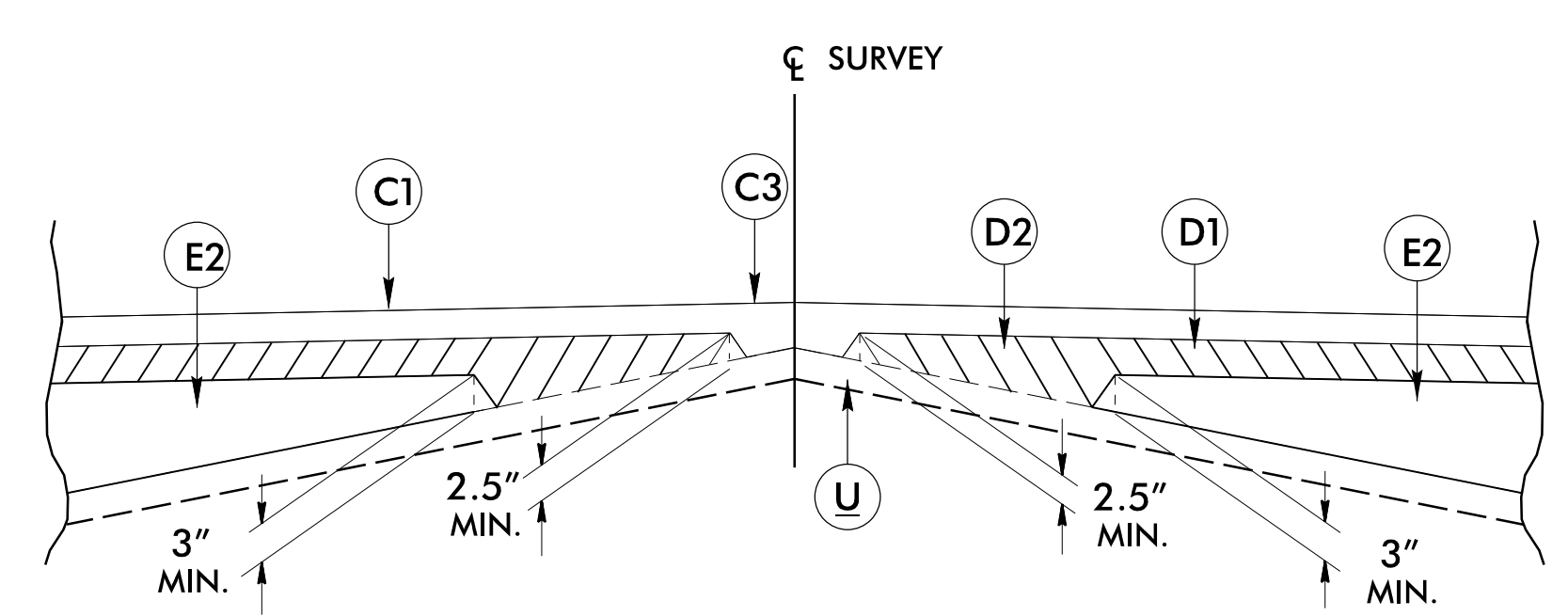
NOTE USE INCIDENTAL MILLING  
 -L- STA 14+30 TO -L- STA 15+50  
 -L- STA 21+90 TO -L- STA 23+40



**USE TYPICAL SECTION NO. 2**

-L- STA 16+45 TO -L- STA 21+45  
 \*\*\* SEE ROADWAY STANDARD DRAWING 560.01

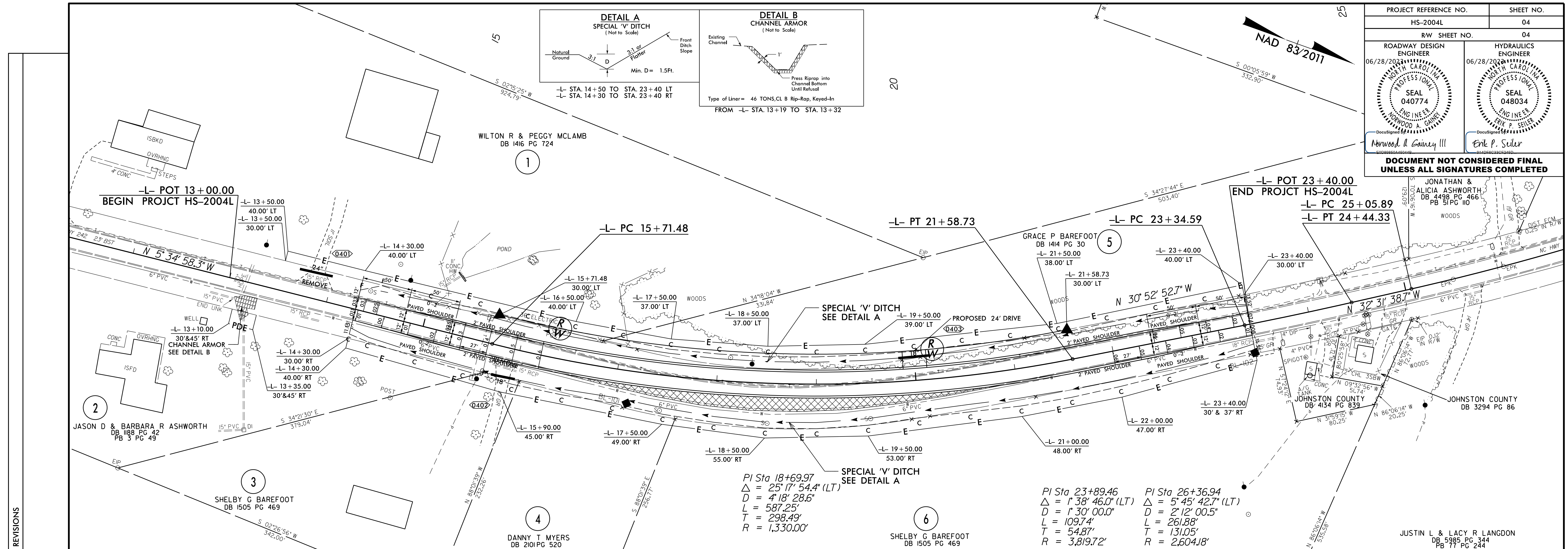
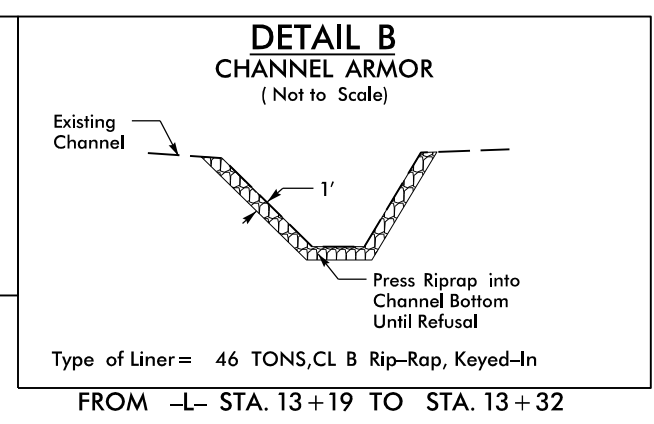
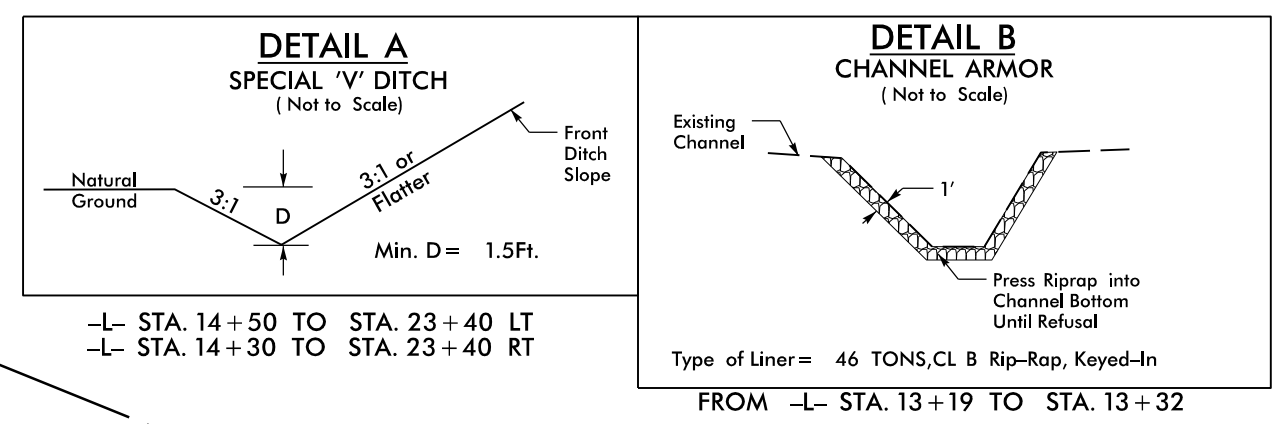
\* NOTE VAR TO EXISTING DITCH  
 -L- STA 17+00 TO -L- STA 20+10 RT.



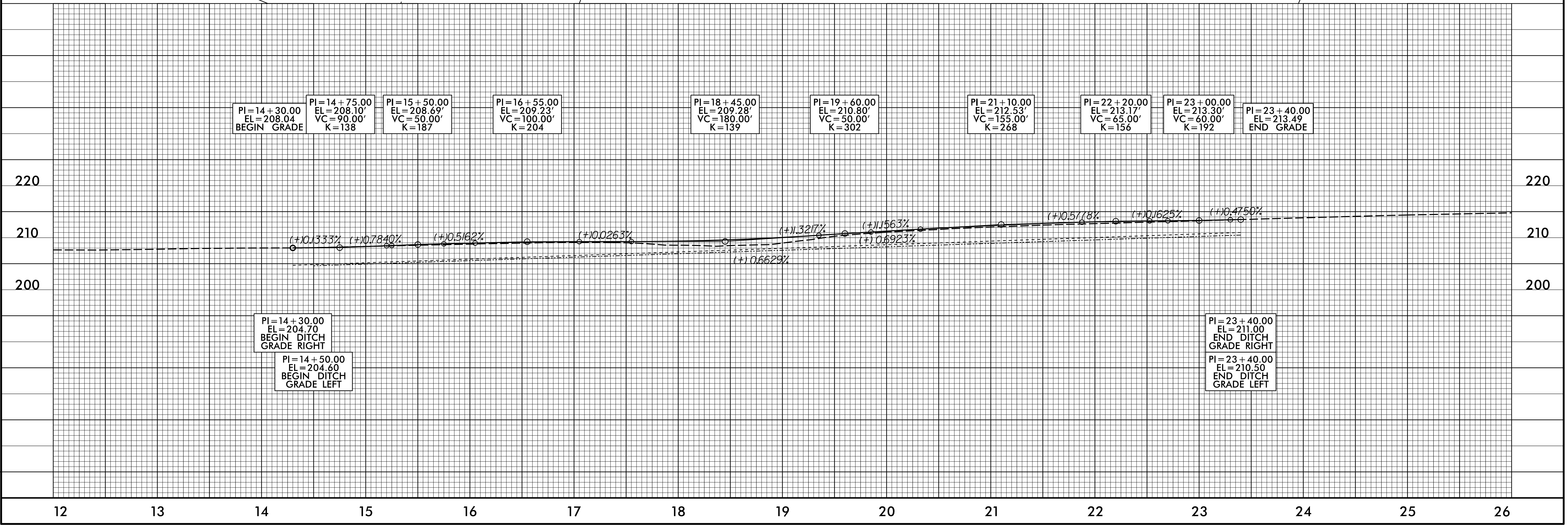
6/22/23  
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 Division 4 DDC



PROJECT REFERENCE NO. HS-2004L	SHEET NO. 04
RW SHEET NO. 04	
ROADWAY DESIGN ENGINEER 06/28/2024 NORTH CAROLINA PROFESSIONAL SEAL 040774 NORWOOD A. GAINES III	HYDRAULICS ENGINEER 06/28/2024 NORTH CAROLINA PROFESSIONAL SEAL 048034 ERIK P. SULER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



REVISIONS



26 JUN 2023 10:29  
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Division 4 DDC

09/06/99

22-MAR-2023 16:07  
FA\2021\NCDD01\_Location and Surveys\HS-2004L\_RW Staking 23130.30\80-Drawings\RW Sheets\HS-2004L\_Is\_r\_w01.dgn  
amorre AT RAL-WS094

**TIP PROJECT: HS-2004L**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2004L	RW01	

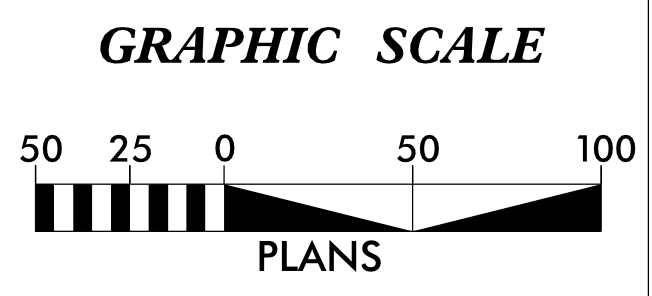
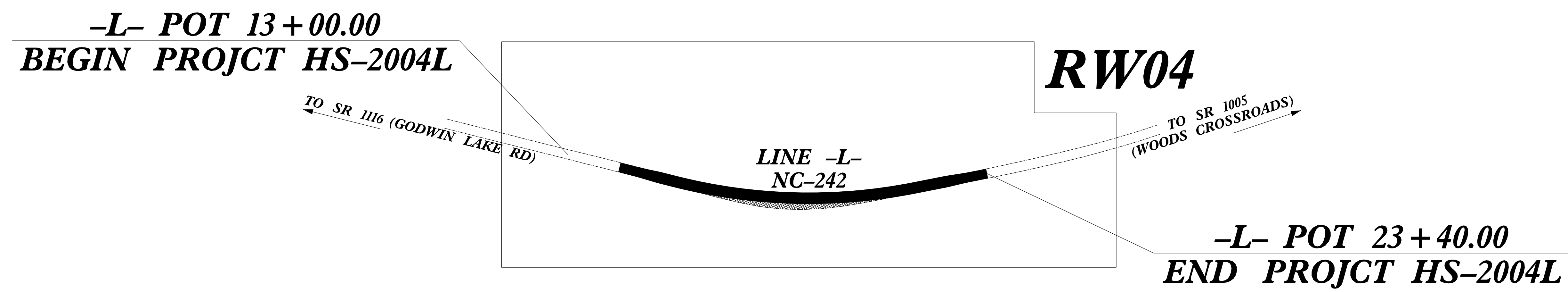
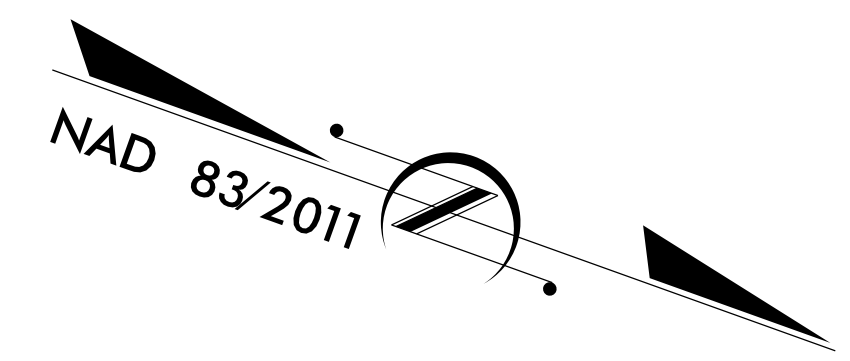
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

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

---

**JOHNSTON COUNTY**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "GPS-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 563,589.048(ft) EASTING: 2,149,659.720(ft) ELEVATION: 207.520(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999929658

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-2" TO -L- STATION 10+00 IS S 33-03'41.9" W 39.69(ft)

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

Prepared in the Office of:



1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 02/23/2023

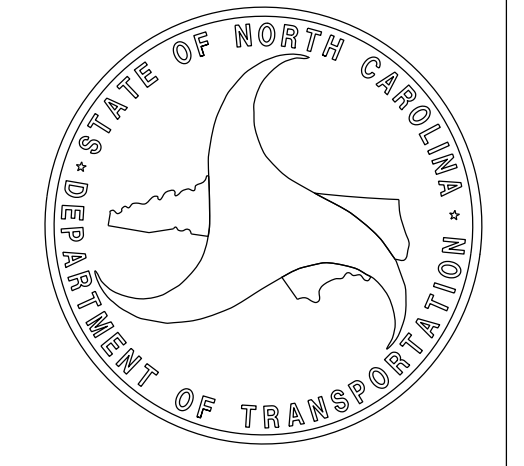
**LETTING DATE:**  
 08/22/2023

**PROFESSIONAL LAND SURVEYOR**

DocuSigned by:  
 Anthony K. Alford  
 22BA29B2F8BA44E...



3/23/2023  
 Date:










6/2/99

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
HS-2004-L	RW02C-3
<b>Location and Surveys</b>	
<b>CH ENGINEERING</b>	
3220 GLEN ROYAL RD. RALEIGH, NC 27817 TEL. (919) 788-0224 FAX (919) 788-0232 CORPORATE LICENSE # P-0189	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		GPS-1	562190.2976	2149797.1857	206.46
2		GPS-2	563589.0480	2149659.7200	207.52
101		BL-101	564271.4110	2149593.2040	208.35
102		BL-102	564847.8450	2149332.3950	212.79
103		BL-103	565203.1290	2149091.8390	215.04

.....  
 BM-200 ELEVATION = 208.60'  
 N 563194' E 2149727'  
 NAIL SET IN CONC ISLAND  
 .....  
 BM-201 ELEVATION = 214.67'  
 N 565177' E 2149027'  
 NAIL SET IN 8" GUM TREE  
 .....

REVISIONS

14-5652031031  
3220 GLEN ROYAL RD  
RALEIGH, NC 27817  
CH ENGINEERING

### NOTES:

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

6/2/09

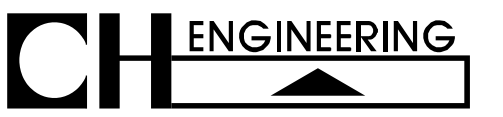
REVISIONS

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. HS-2004-L SHEET NO. RW02C-4

Location and Surveys



3220 GLEN ROYAL RD., RALEIGH, NC 27617  
 TEL. (919) 788-0224 FAX (919) 788-0232  
 CORPORATE LICENSE # P-0189

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED


EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	563555.782	2149638.066							
LINE			N 05°34'58.3" W	713.84					
PC	564266.233	2149568.620							
CURVE			N 17°25'39.6" W	278.06	23°41'22.7"(L T)	08°27'32.2"	280.05	142.06	677.34
PT	564531.533	2149485.340							
LINE			N 29°16'21.0" W	18.53					
PC	564547.698	2149476.279							
CURVE			N 30°04'36.9" W	107.25	01°36'31.8"(L T)	01°30'00.0"	107.25	53.63	3819.72
PT	564640.508	2149422.528							
LINE			N 30°52'52.7" W	219.31					
PC	564828.726	2149309.966							
CURVE			N 31°42'15.7" W	109.74	01°38'46.0"(L T)	01°30'00.0"	109.74	54.87	3819.72
PT	564922.086	2149252.295							
LINE			N 32°31'38.7" W	61.56					
PC	564973.989	2149219.195							
CURVE			N 35°24'30.0" W	261.77	05°45'42.7"(L T)	02°12'00.5"	261.88	131.05	2604.18
PT	565187.346	2149067.523							

NOTES:

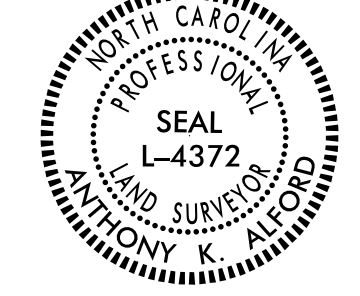
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

\$\$\$  
 CONSTRUCTION  
 TIME  
 Y-  
 C  
 \$\$\$

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
HS-2004L	RW02D-1
<b>Location and Surveys</b>	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN          CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</small>	

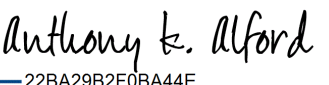
PROJECT SURVEYOR



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

I, Anthony K. Alford, PLS, 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.

This 23rd day of March, 2023.

DocuSigned by:  
  
 22BA29B2F0BA44E...

Professional Land Surveyor L-4372

REVISIONS

P:\MAR\_2023\B10\_Location and Surveys\HS-2004L RW Staking 23130.30\80-Drawings\FW Sheets\hs2004L.is.rw02d-1.dgn  
 25 MAR 2023 10:01 AM AT RAL-WS094



L

TYPE	STATION	NORTH	EAST
POT	10+00.00	563555.7823	2149638.0661
PC	15+71.48	564124.5487	2149582.4699
PT	21+58.73	564677.7972	2149400.2277
PC	23+34.59	564828.7257	2149309.9656
PT	24+44.33	564922.0864	2149252.2951
PC	25+05.89	564973.9887	2149219.1947
PT	27+67.77	565187.3464	2149067.5225

**NOTES:**


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

# RIGHT OF WAY & PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
HS-2004L	RW03E-1
<b>Location and Surveys</b>	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN          CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Anthony K. Alford, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 3/20/2023 to 3/20/2023, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of March, 2023.

DocuSigned by:  
  
 22BA29B2F0BA4E...  
 Professional Land Surveyor L-4372

ROW MARKER IRON PIN AND CAP -E

ALIGN	STATION	OFFSET	NORTH	EAST
L	15+71.48	-30.00	564121.6302	2149552.6122
L	21+58.73	-30.00	564662.3993	2149374.4807

ROW MARKER PERMANENT EASEMENT -E



ALIGN	STATION	OFFSET	NORTH	EAST
L	13+10.00	30.00	563867.2304	2149637.7654
L	13+10.00	45.00	563868.6897	2149652.6942
L	13+35.00	30.00	563892.1118	2149635.3333
L	13+35.00	45.00	563893.5711	2149650.2621

**NOTES:**

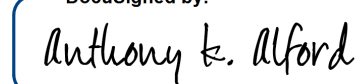
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 3/20/2023 TO 3/20/2023 .

REVISIONS

24 MAR 2023 09:07  
 \\wfs01\projects\2021\NCDDT Location and Surveys\HS-2004L RW Staking 23130.30\80-Drawings\FOR REVIEW\hs2004L.rw03e-1.dgn  
 Alford  
 anorpe

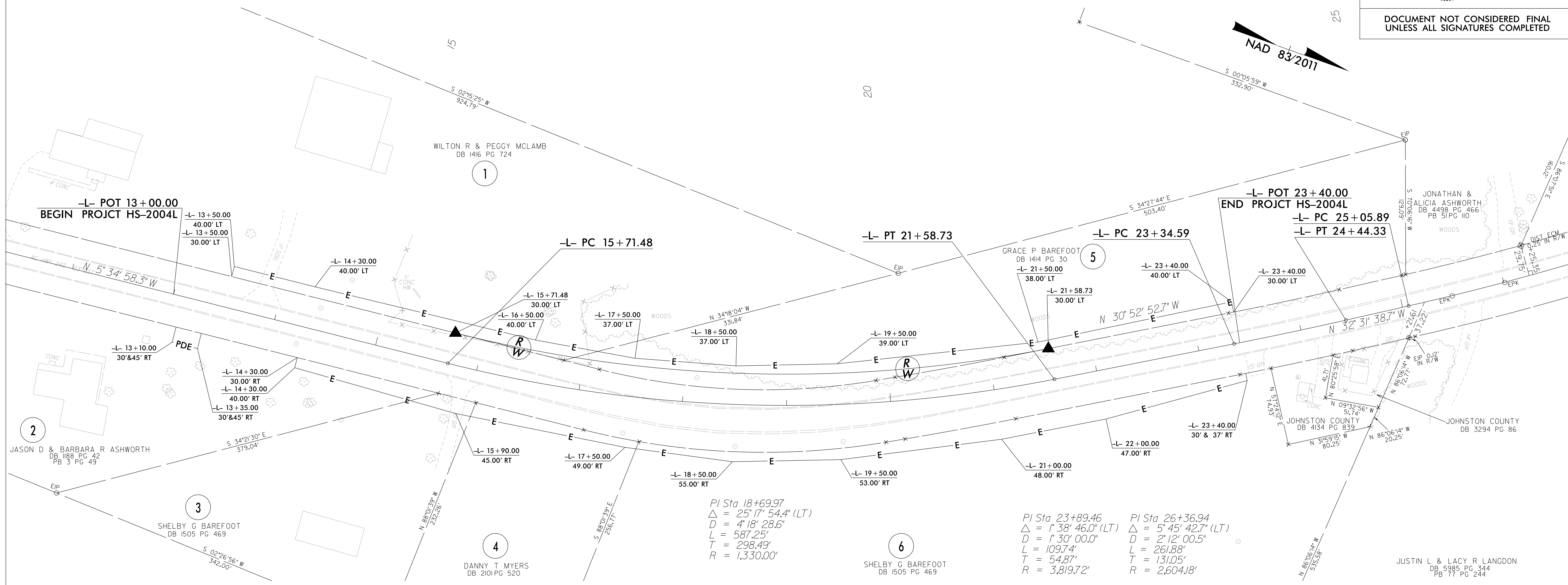
PROJECT REFERENCE NO.	SHEET NO.
HS-2004L	RW04
<b>Location and Surveys</b>	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Anthony K. Alford, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 3/20/2023 to 3/20/2023, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of March, 2023.  
 DocuSigned by:  
  
 22BA29B2F0BA44E...  
 Professional Land Surveyor L-4372

REVISIONS

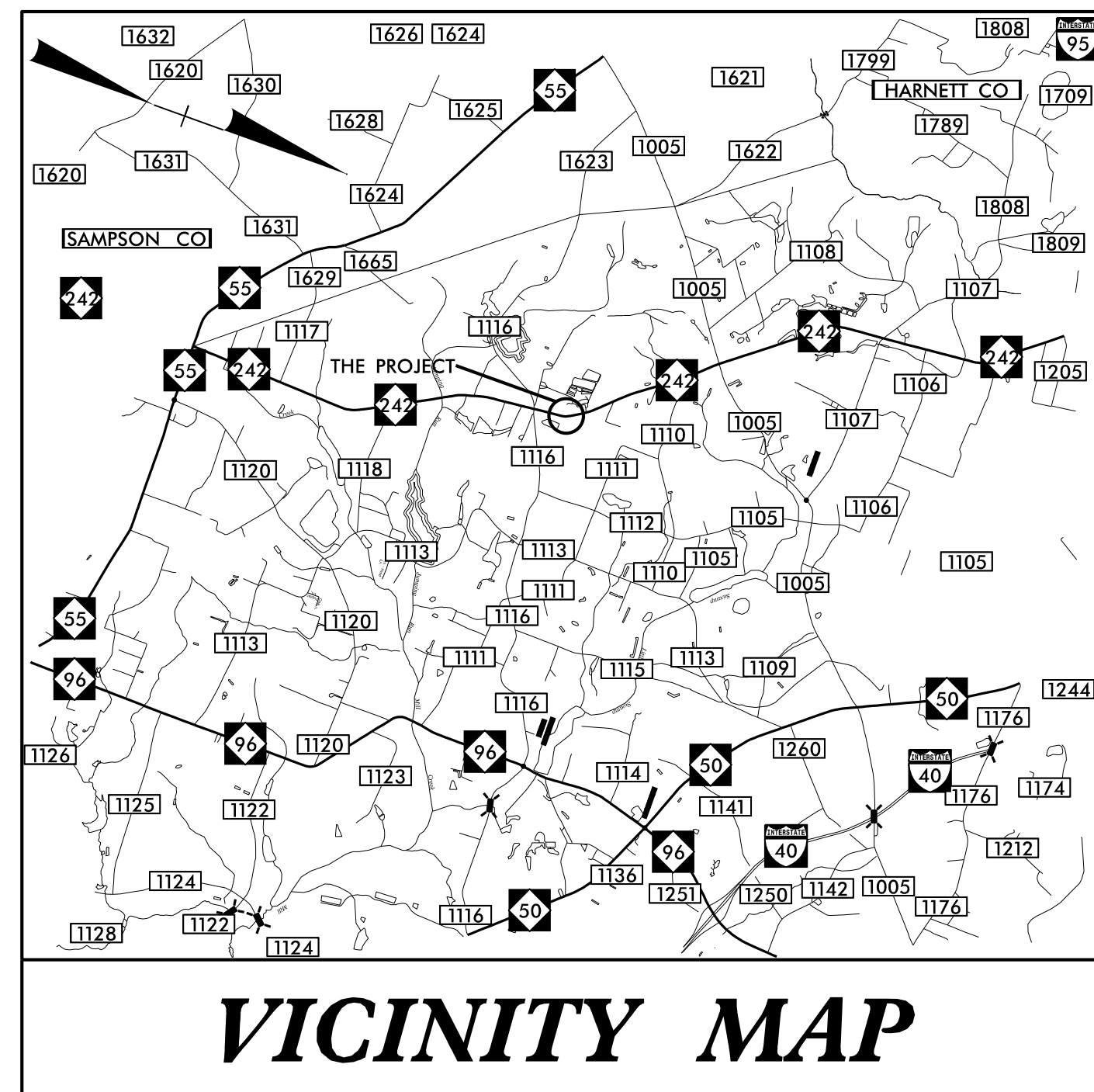
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 6/2/09  
 23130.30\80-Drawings\RW Sheets\HS-2004L\_1s.rw04.dgn  
 6/2/09



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 3/20/2023 TO 3/20/2023 .

**TIP PROJECT: HS-2004L**



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

**LOCATION: NC-242 BETWEEN 0.08 MILES AND 0.31 MILES  
NORTH OF SR-116 (GODWIN LAKE ROAD).**

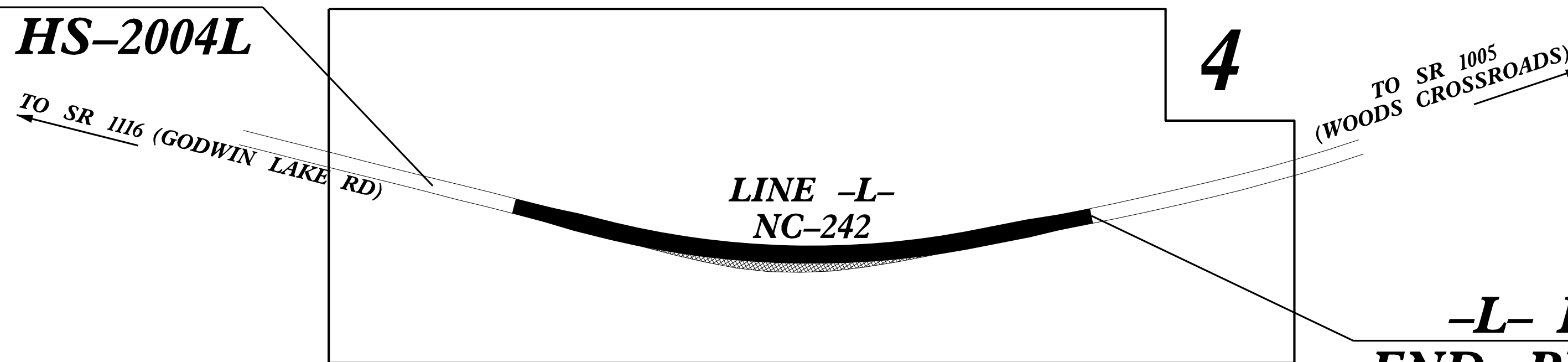
**TYPE OF WORK: GRADING, DRAINAGE AND PAVING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2004L	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	

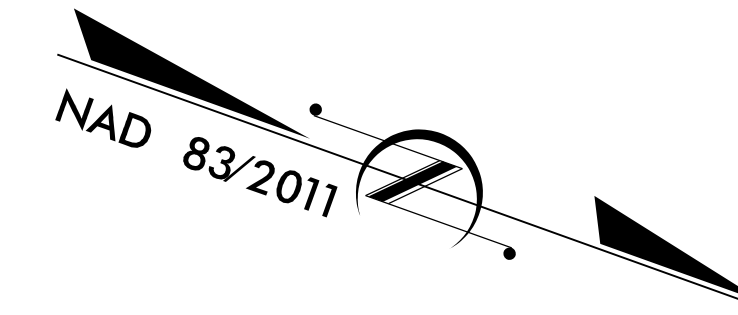
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1635.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle/Coir Fiber Wattle	WCFW
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	WCFW-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTTA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTTB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

**-L- POT 13+00.00  
BEGIN PROJCT HS-2004L**



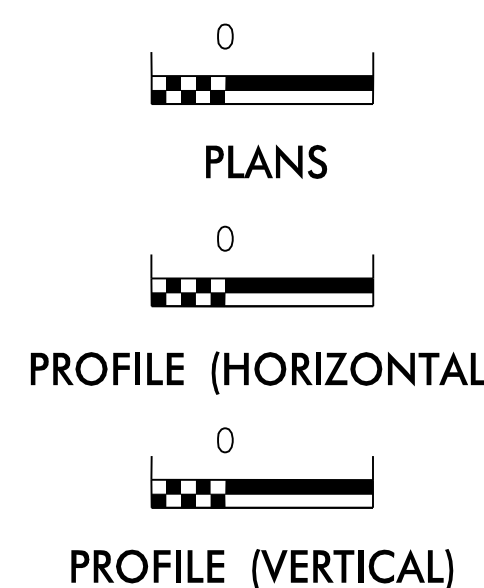
**-L- POT 23+40.00  
END PROJCT HS-2004L**



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

**THIS PROJECT HAS  
BEEN DESIGNED TO  
SENSITIVE WATERSHED  
STANDARDS.**

**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2018 STANDARD SPECIFICATIONS**

Designed by:  
**Meghan Quick** 4457  
NAME LEVEL III CERTIFICATION NO.

**Roadway Standard Drawings**

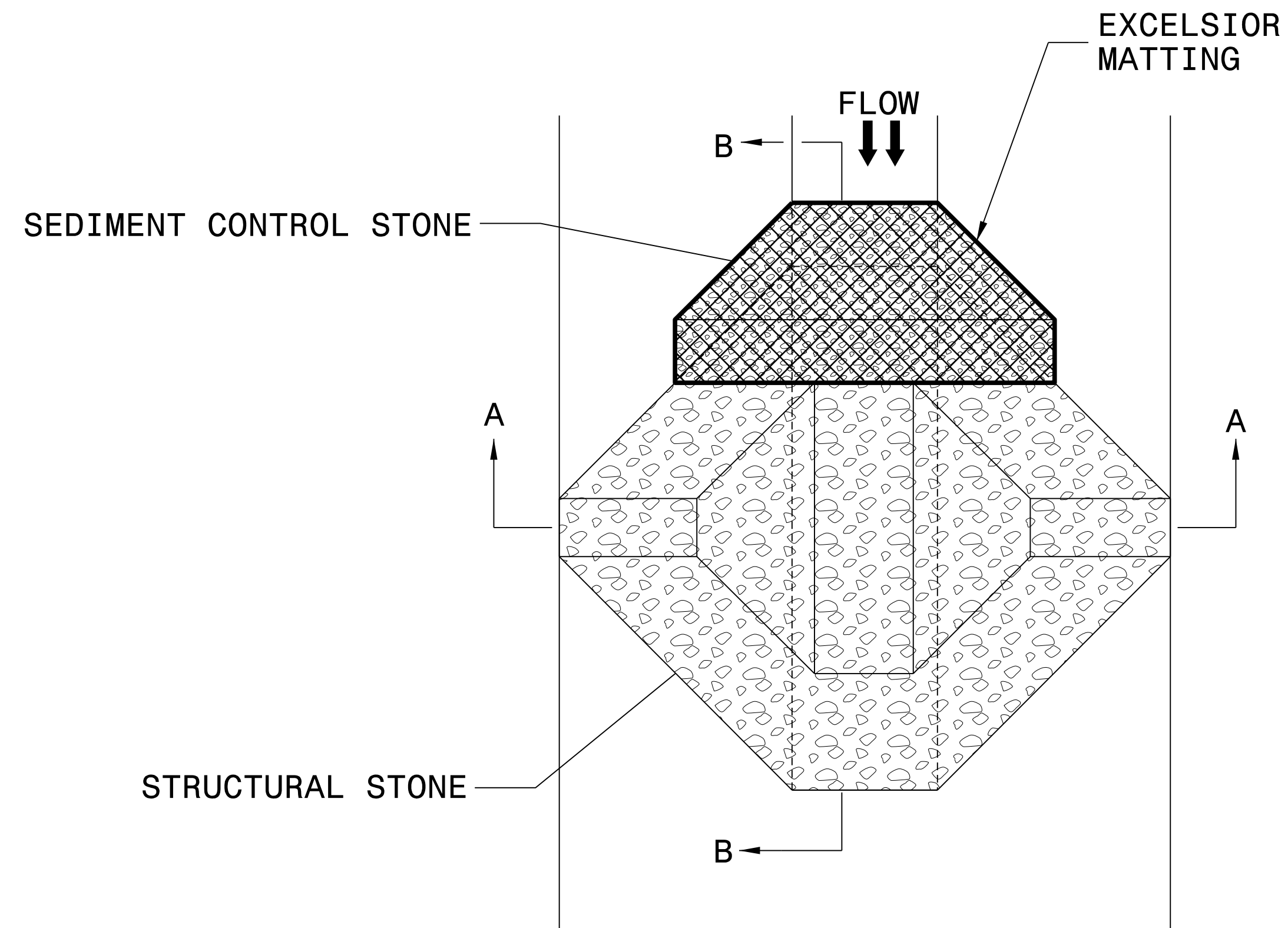
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	



PROJECT REFERENCE NO. HS-2004L	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

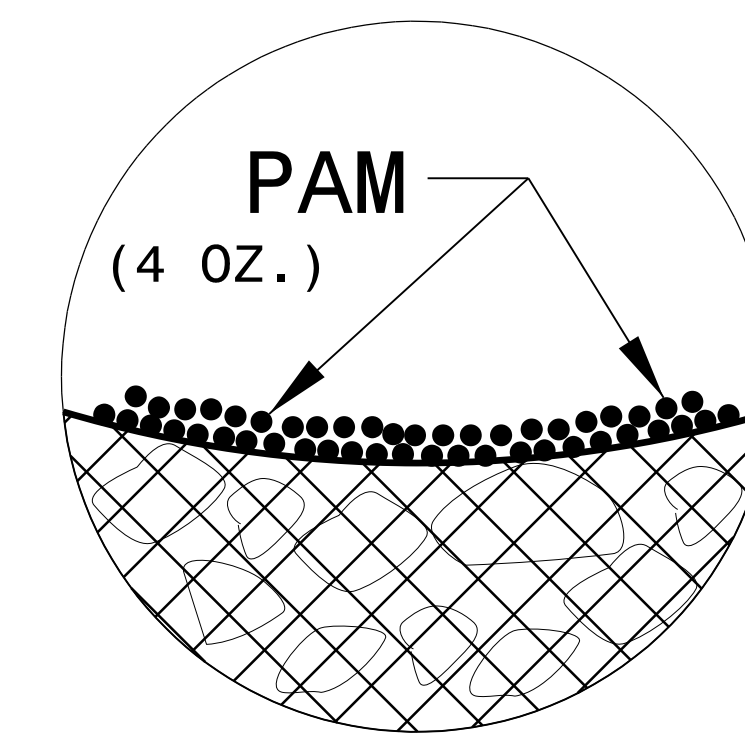
**NOTES:**

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

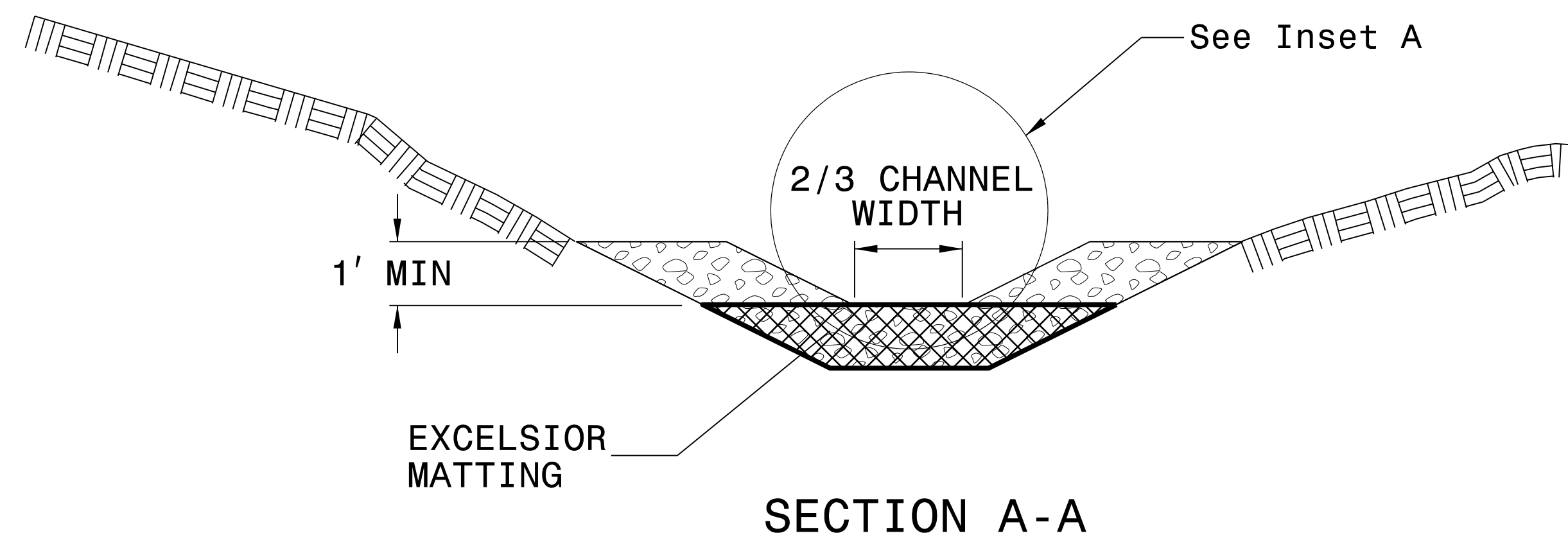
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

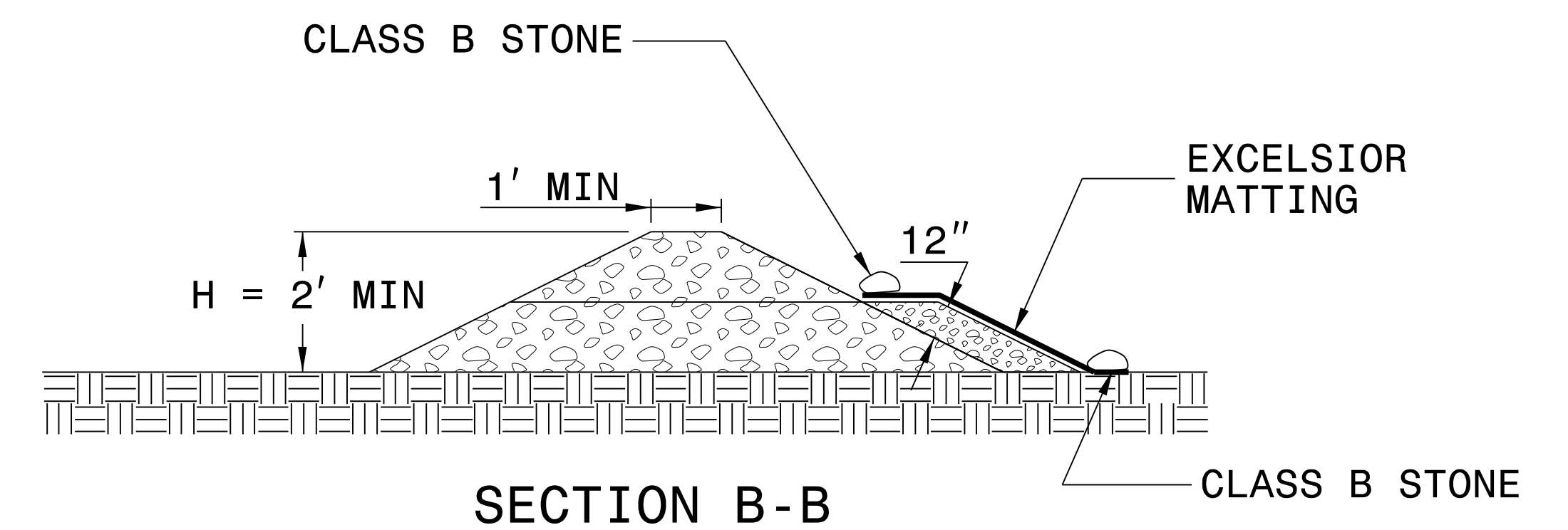
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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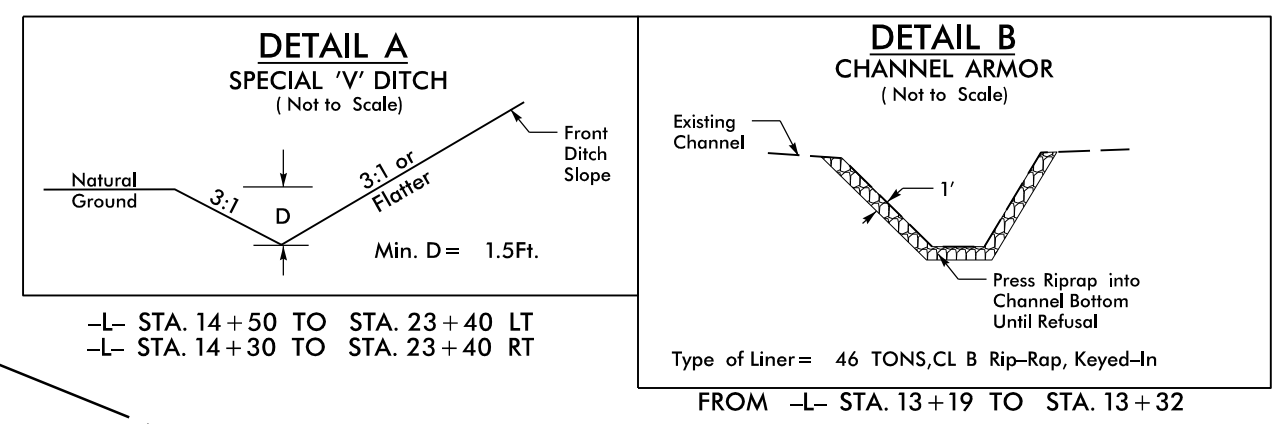
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PROJECT REFERENCE NO. <i>HS-2004L</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

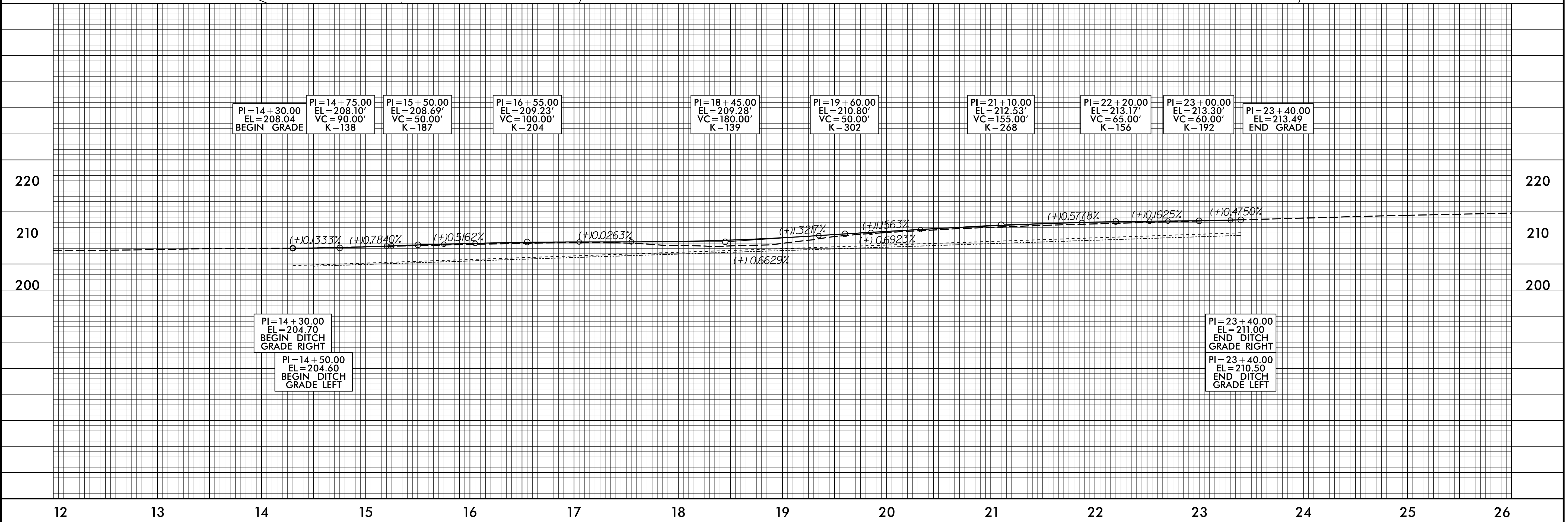
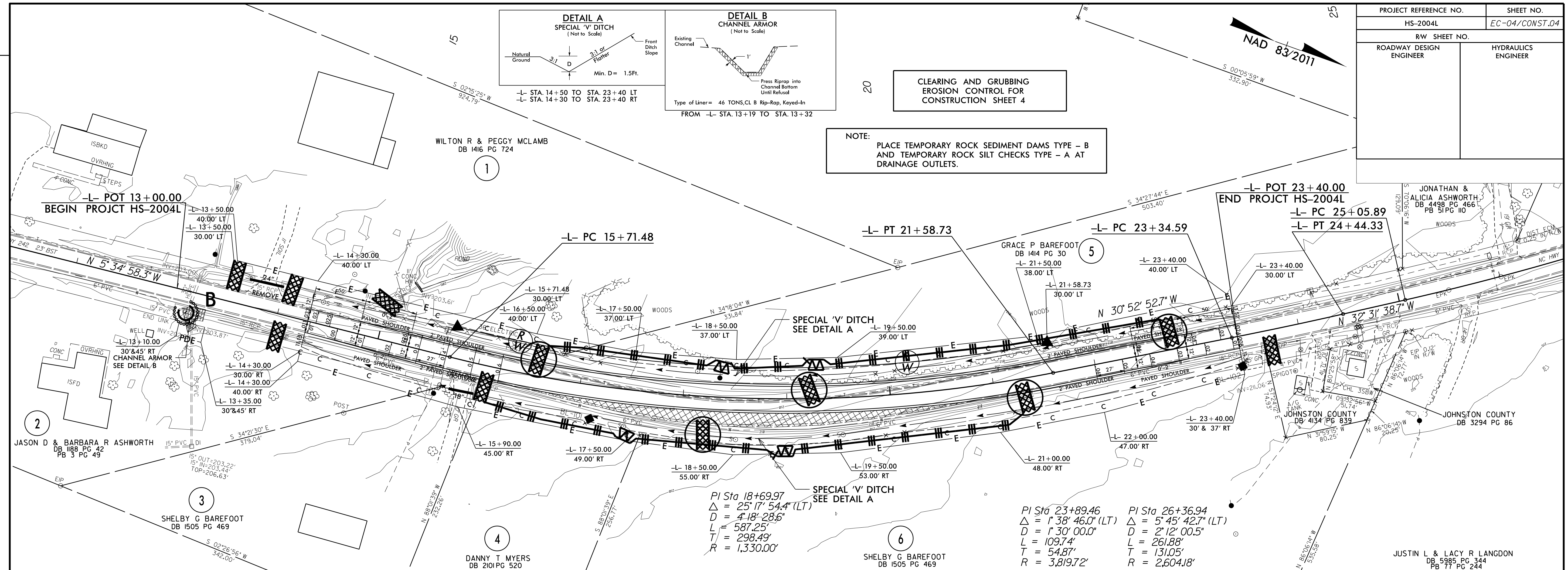
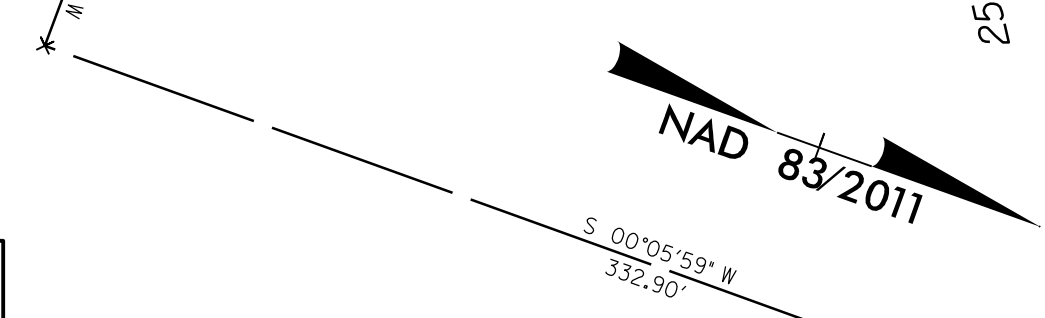
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

PROJECT REFERENCE NO. HS-2004L	SHEET NO. EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4**

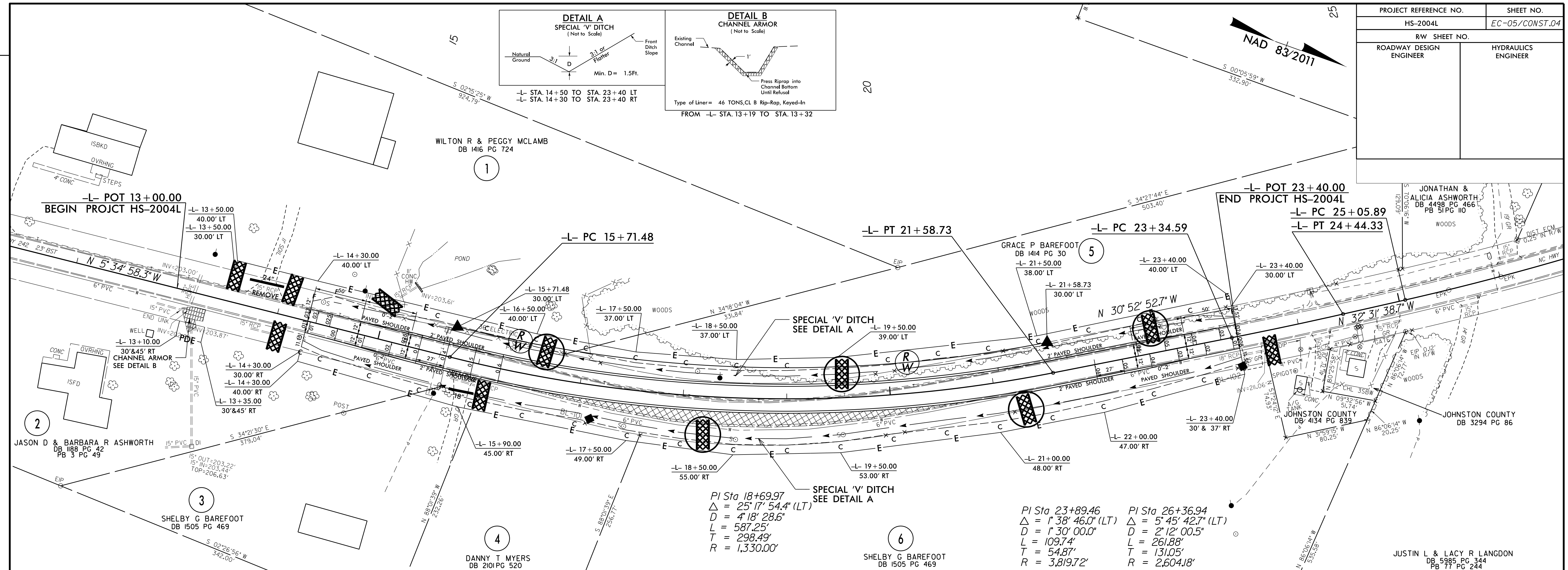
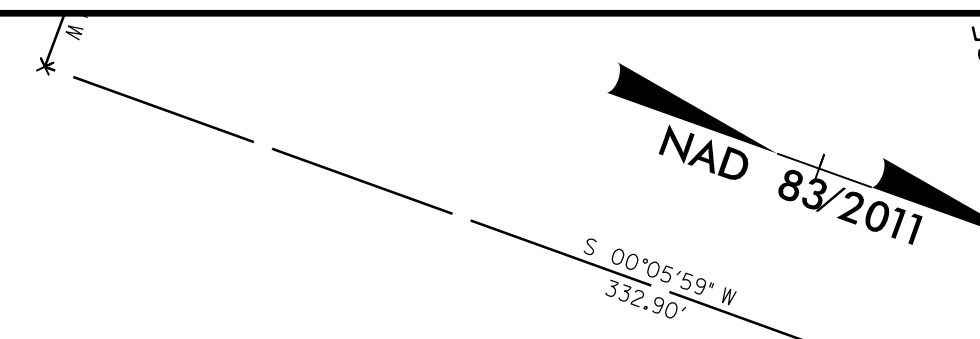
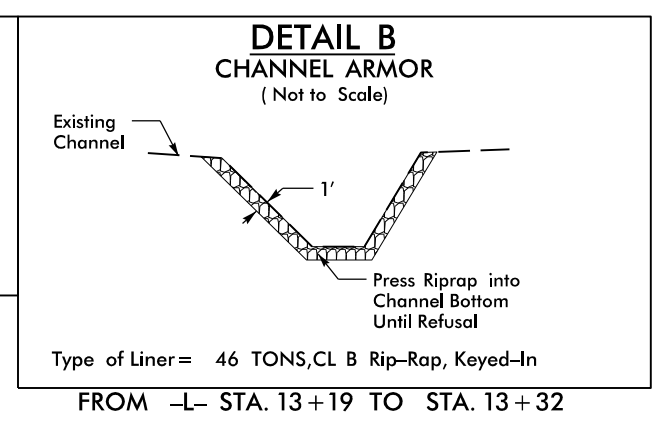
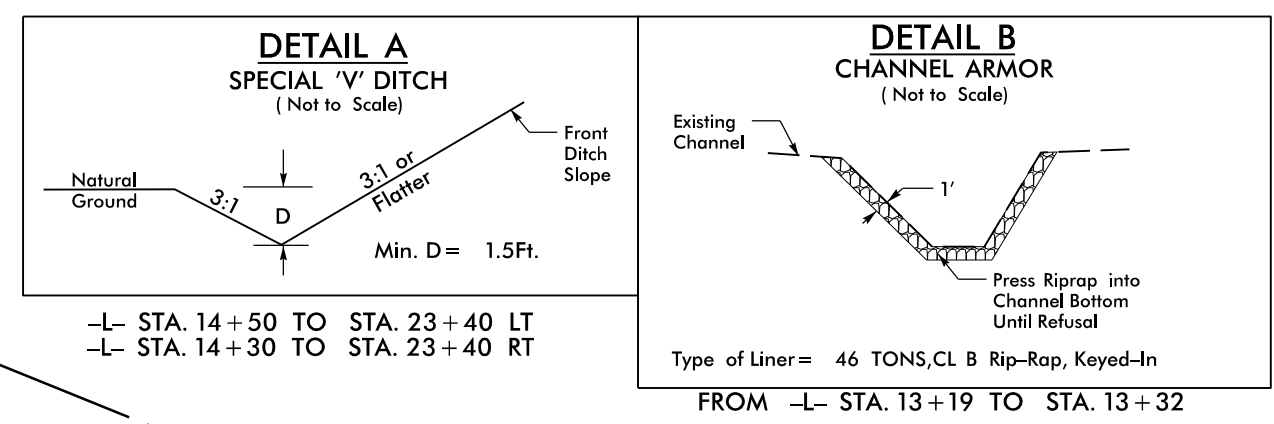
**NOTE:**  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



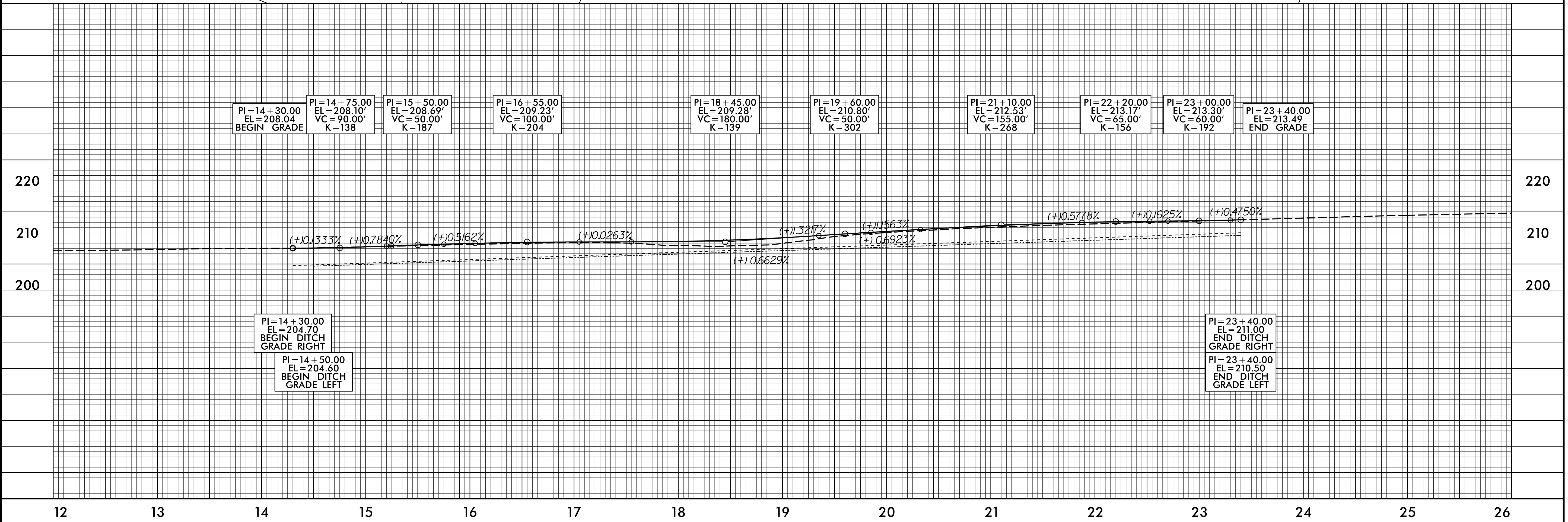
REVISIONS

09 JUL 2003 09:03 mrcm\hs-2004l\_ec\_dfm.dgn  
U:\HS-2004L\mrcm\hs-2004l\_ec\_dfm.dgn  
\$\$\$\$USERNAAMES\$\$

PROJECT REFERENCE NO.	SHEET NO.
HS-2004L	EC-05/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PI=14+30.00 EL=208.04 BEGIN GRADE	PI=14+75.00 EL=208.10' VC=90.00' K=138	PI=15+50.00 EL=208.69' VC=50.00' K=187	PI=16+55.00 EL=209.23' VC=100.00' K=204	PI=18+45.00 EL=209.28' VC=180.00' K=139	PI=19+60.00 EL=210.80' VC=50.00' K=302	PI=21+10.00 EL=212.53' VC=155.00' K=268	PI=22+20.00 EL=213.17' VC=65.00' K=156	PI=23+00.00 EL=213.30' VC=60.00' K=192	PI=23+40.00 EL=213.49 END GRADE
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REVISIONS

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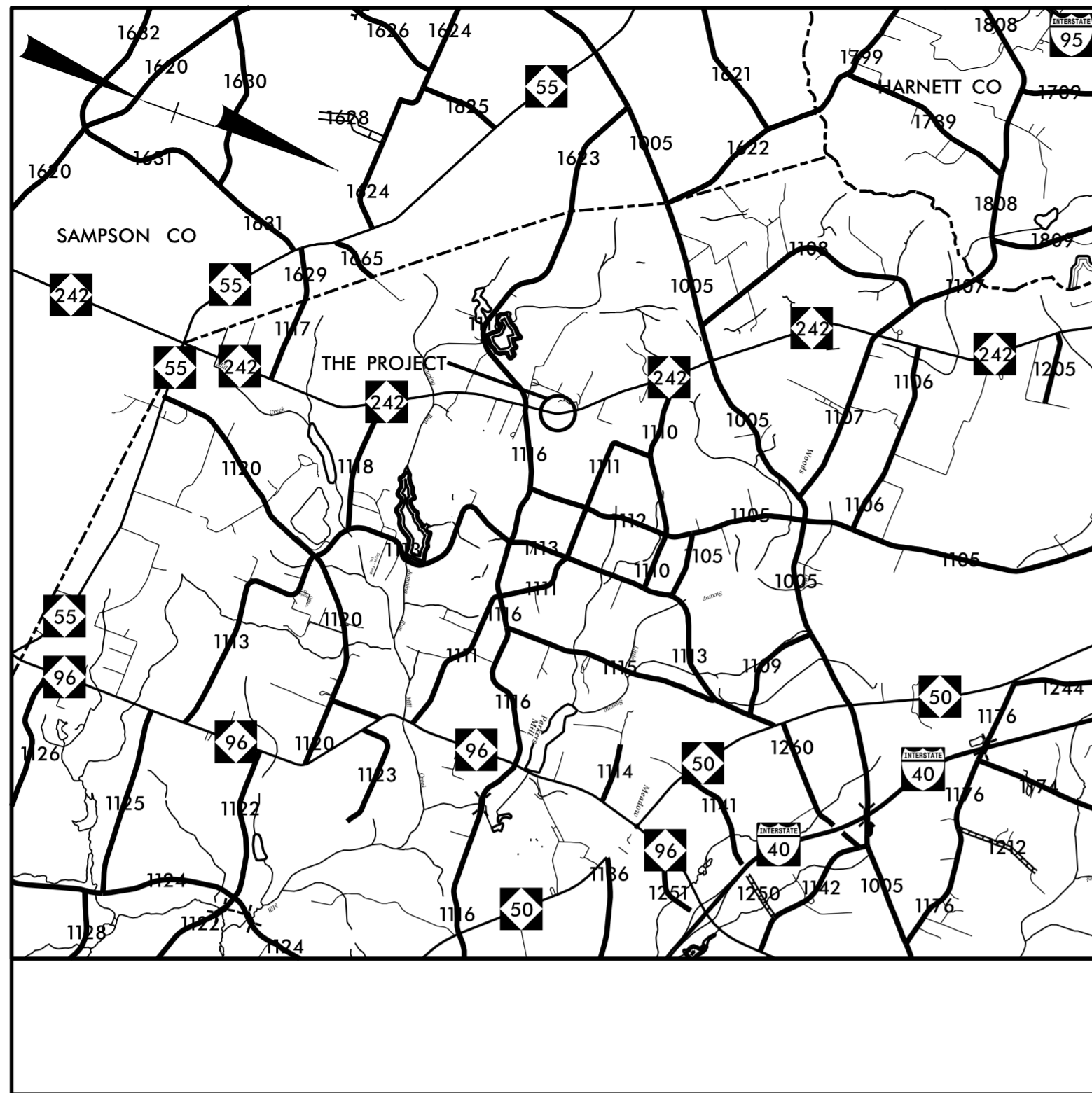
DDC4

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
HS-2004L	UC-1

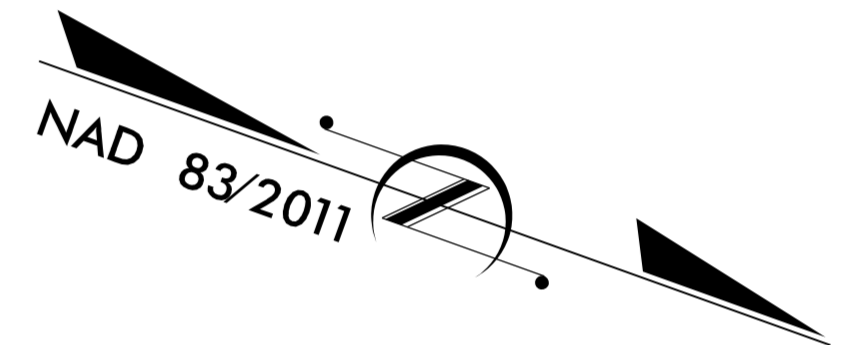
**TIP PROJECT: HS-2004L**



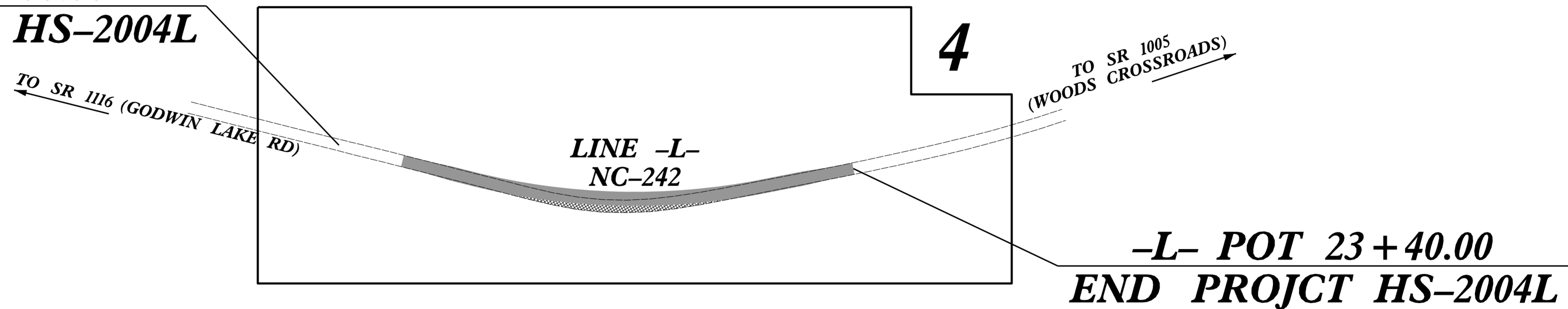
**UTILITY CONSTRUCTION PLANS  
JOHNSTON COUNTY**

**LOCATION: NC-242 BETWEEN 0.08 MILES AND 0.31 MILES  
NORTH OF SR-1116 (GODWIN LAKE ROAD).**

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

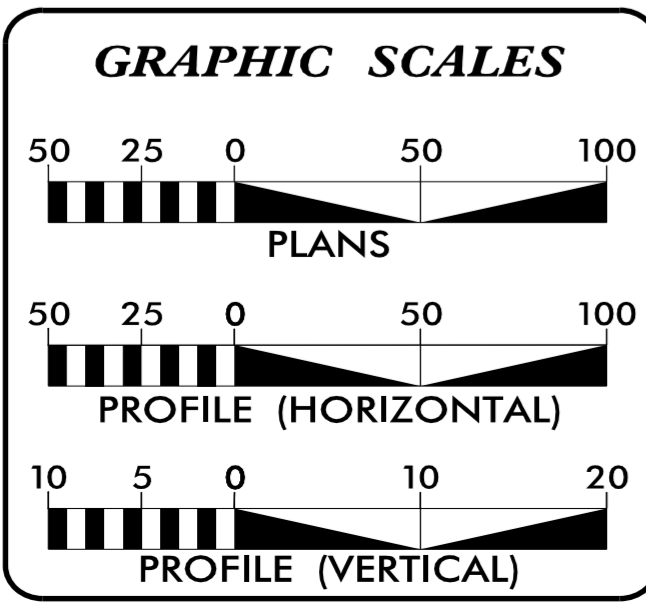


**-L- POT 13+00.00  
BEGIN PROJCT HS-2004L**



**CONTRACT:**

6/13/2023 5:17 PM S:\Projects\NCDOT\Div\_4\_HS2004L\Utilities\UC\_HS-2004L\_DDC4\_TSH.dgn USER:NAME



**INDEX OF SHEETS**

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOLOGY
UC-3	NOTES & DETAILS
UC-4	UTILITY CONSTRUCTION SHEET

**WATER AND SEWER OWNERS ON PROJECT**

(A) WATER: JOHNSTON COUNTY

PREPARED IN THE OFFICE OF

**CH ENGINEERING**  
DIVISION OF PENNONTI

5430 WADE PARK BLVD., SUITE 106,  
RALEIGH, NC 27607 PHONE: 919.929.1173  
FAX: 919.493.6548 NC LICENSE #P-0189

---

ERIC TWEED, PE UTILITY ENGINEER  
BRIAN WILES, PE PROJECT MANAGER

SEAL

DocuSigned by:  
Eric Tweed 6/13/2023  
30DC6201819D415...

**DIVISION OF HIGHWAYS  
DIVISION 4**

509 WARD BLVD.  
WILSON, NC 27895

---

KYLE PLEASANT DIVISION UTILITY ENGINEER  
FRANK ZDELAR DIVISION UTILITY COORDINATOR  
ADDISON GAINNEY, PE DIVISION PROJECT TEAM LEAD  
COREY MCLAMB, PE DIVISION CONSTRUCTION ENGINEER

5/14/99

# 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	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
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	

NOTE

PAY ITEM

## 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		Sanitary Sewer Cleanout	
End of Information			

\*For Existing Utilities

Utility Line Drawn from Record (Type as Shown) \_\_\_\_\_

Designated Utility Line (Type as Shown) \_\_\_\_\_

6/12/2023

PROJECT REFERENCE NO.	SHEET NO.
HS-2004L	UC-3
DESIGNED BY: EMT	
DRAWN BY: LMS	
CHECKED BY: BAW	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
6/13/2023 UTILITY CONSTRUCTION PLANS ONLY	

### 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 UTILITIES BELONG TO JOHNSTON COUNTY.

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.

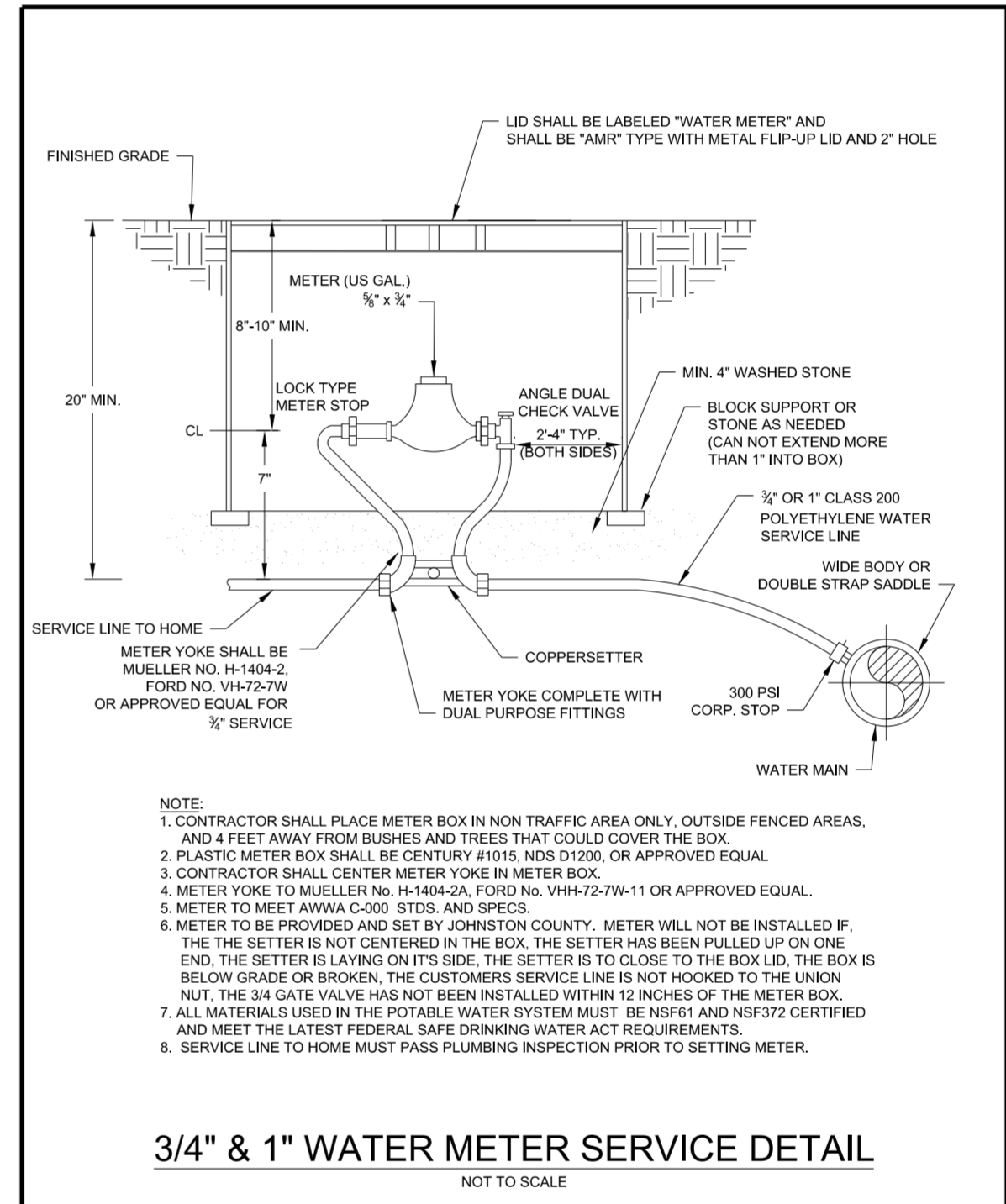
6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING 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.

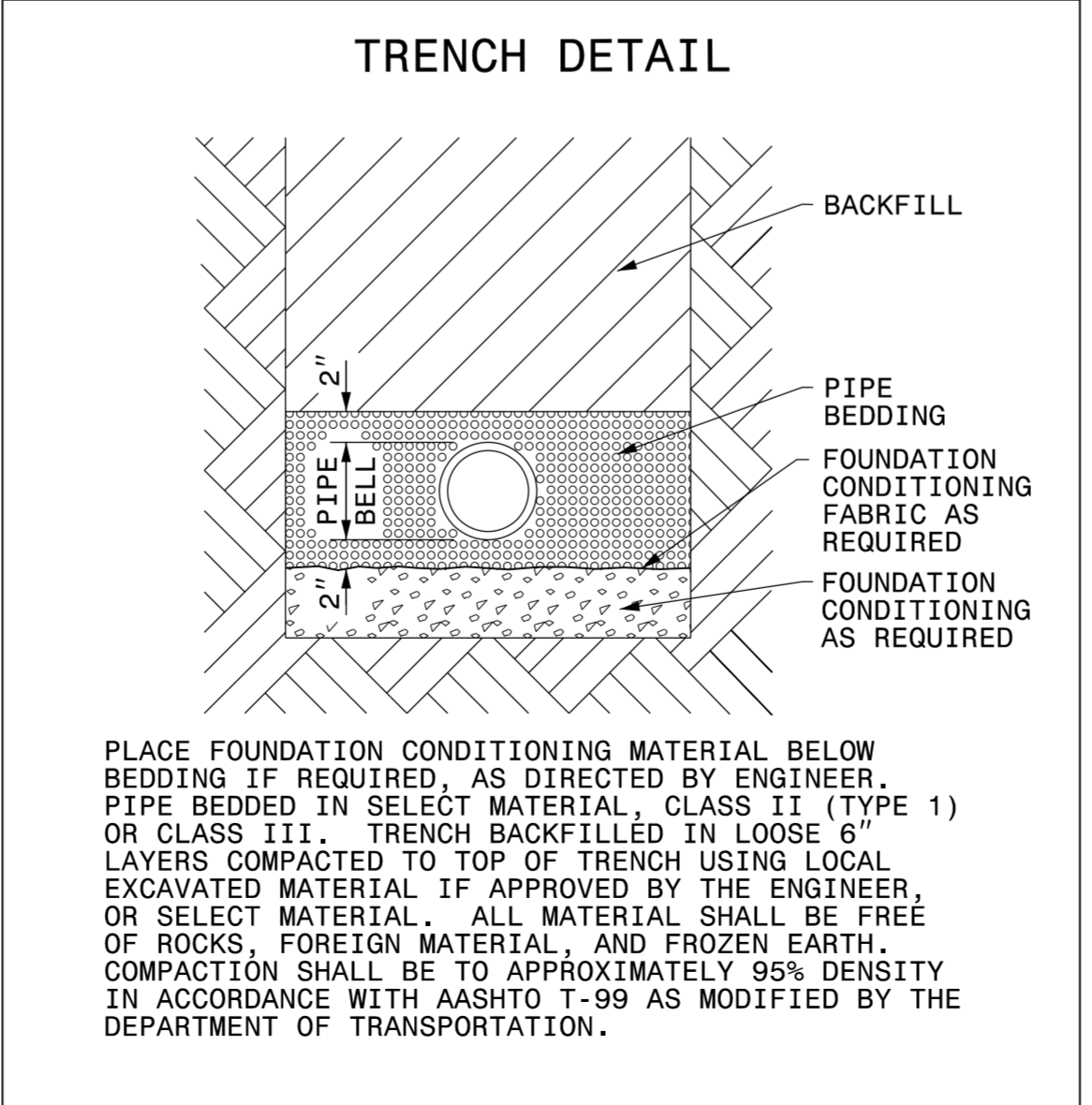
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

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.


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



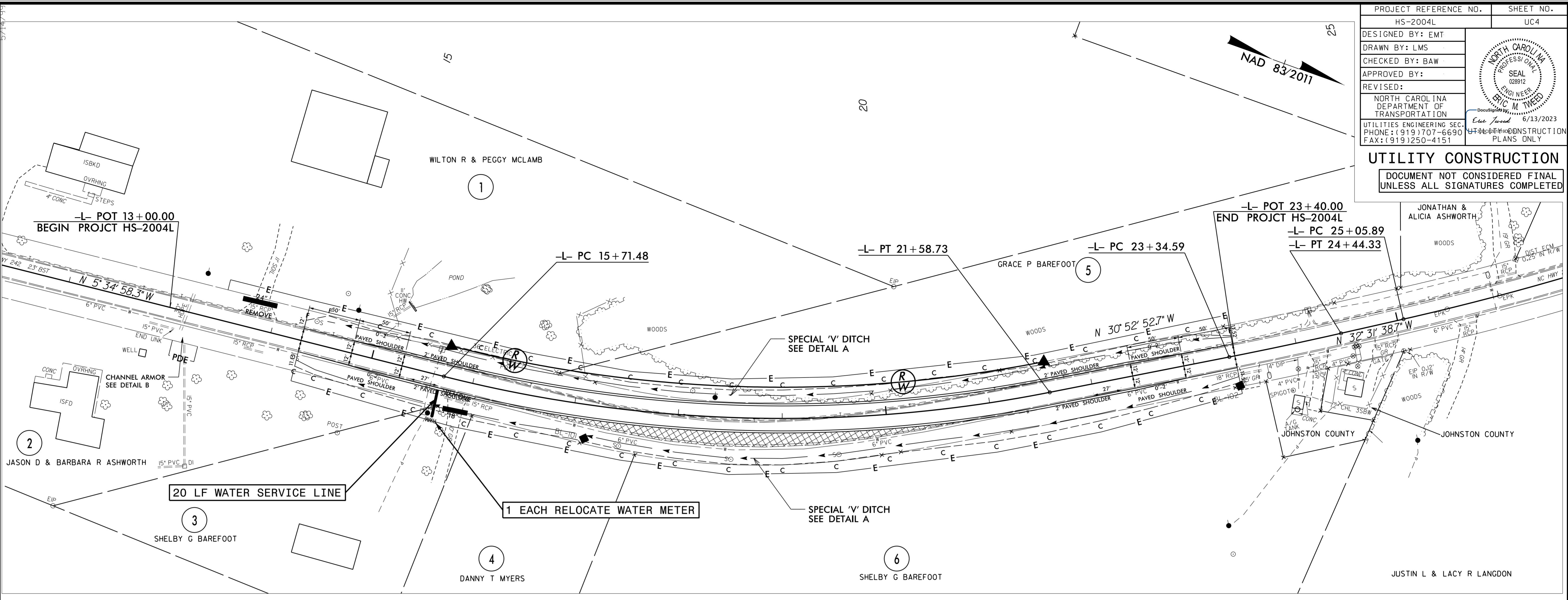
Drawn By:	Name	Date	<b>JOHNSTON COUNTY</b> Department of Public Utilities P.O. Box 2263 Smithfield, NC 27577	<b>WATER STANDARD DETAIL</b> 3/4" and 1" Water Meter Service	PAGE <b>21</b>
Checked By:					
Approved By:					
Scale:					
Rev.	Description	Date	Init.		



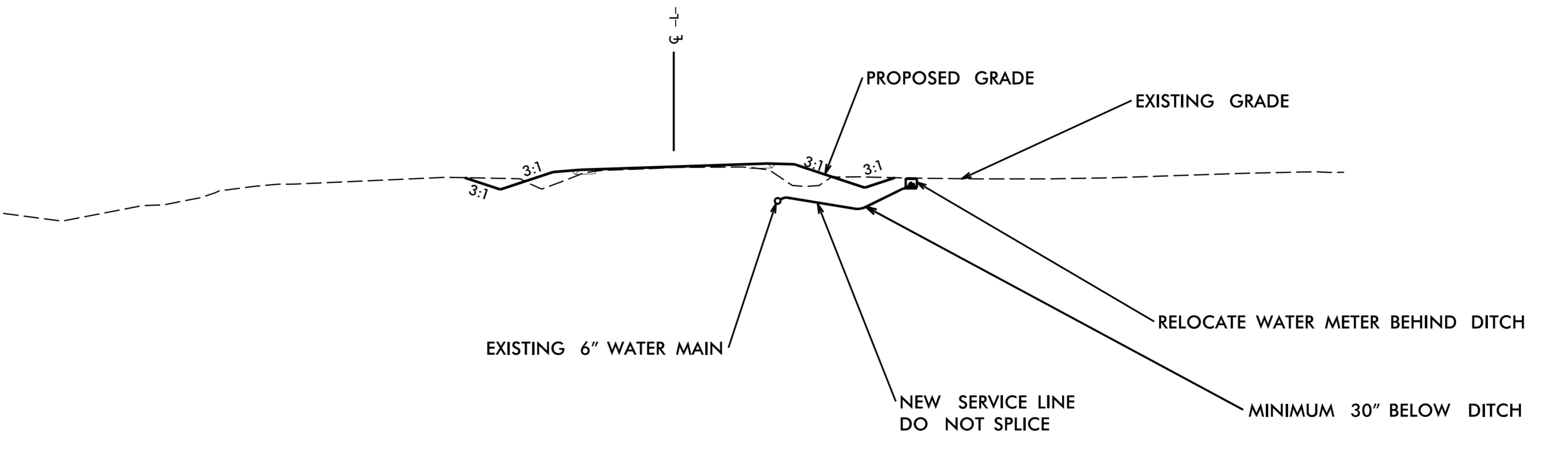


PROJECT REFERENCE NO.	SHEET NO.
HS-2004L	UC4
DESIGNED BY: EMT	
DRAWN BY: LMS	
CHECKED BY: BAW	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
6/13/2023 CONSTRUCTION PLANS ONLY	

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



**CROSS SECTION AT WATER METER**



6/13/2023 10:45:00 AM  
 C:\Users\lms\Documents\Projects\HS-2004L\UC4\UC4.dwg  
 UC4.dwg  
 LMS

# STATE OF NORTH CAROLINA

## DIVISION OF HIGHWAYS

### CROSS-SECTION INDEX

PROJ. REFERENCE NO.	SHEET NO.
HS-2004L	X-1

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

**CROSS SECTION INDEX**  
**CROSS SECTION SUMMARY**  
**LINE -L- (13+00 - 23+40)**

### SHEET NUMBERS

X-1  
 X-1  
 X-2 THRU X-5

**NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE  
 BACKFILL FOR UNDERCUT**

### CROSS-SECTION SUMMARY

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	
L			
13+00.00			
13+50.00			
14+00.00			
14+50.00	4	13	
15+00.00	9	44	
15+50.00	21	59	
16+00.00	32	46	
16+50.00	37	39	
17+00.00	36	29	
17+50.00	30	15	
18+00.00	32	13	
18+50.00	43	14	
19+00.00	50	16	
19+50.00	48	17	
20+00.00	42	17	
20+50.00	47	24	
21+00.00	50	38	
21+50.00	42	49	
22+00.00	37	52	
22+50.00	36	49	
23+00.00	32	40	
23+40.00	16	16	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

STATION	UNCLASSIFIED EXCAVATION (CU YD)	EMBANKMENT (CU YD)	

