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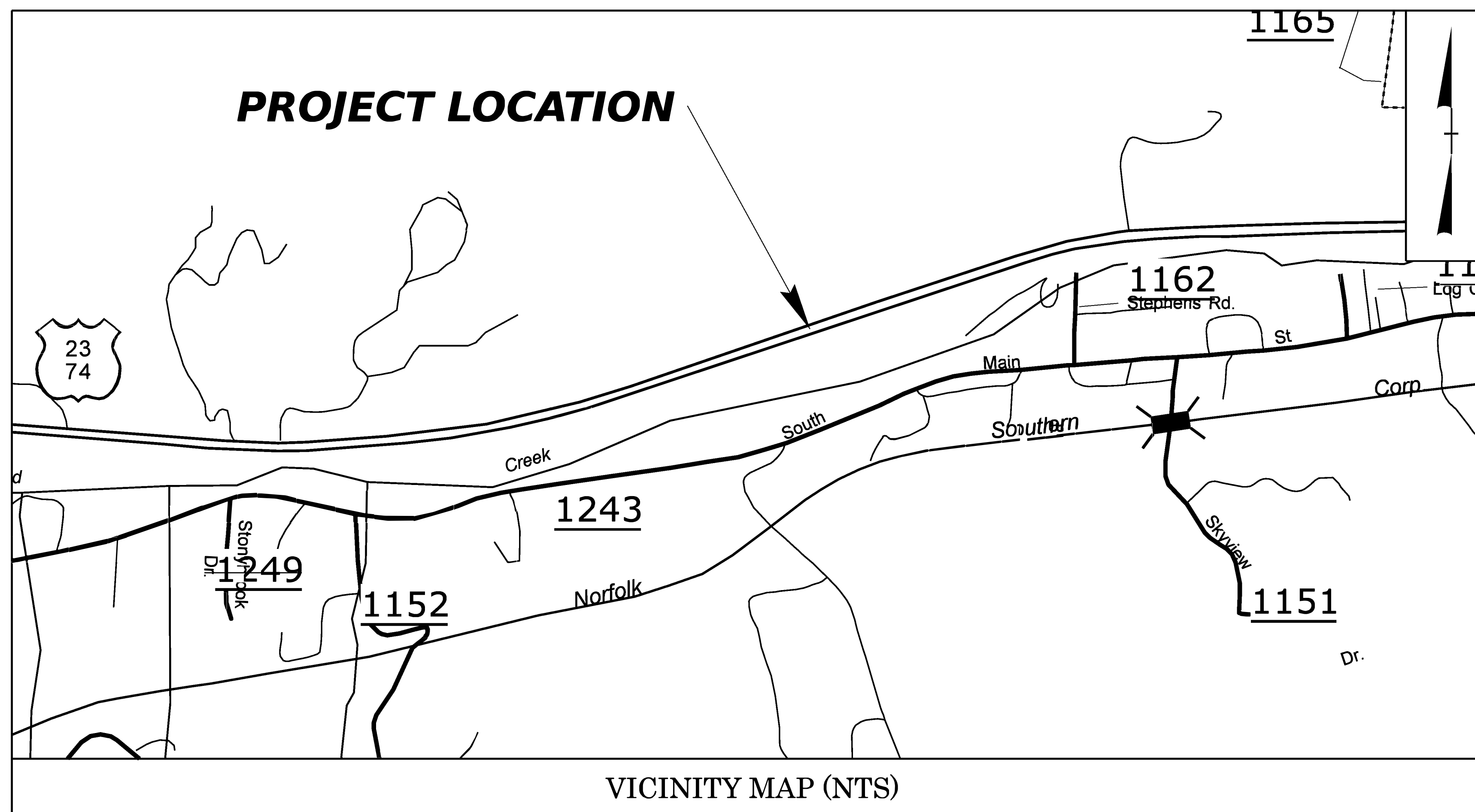
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

HAYWOOD COUNTY

LOCATION: *US 74 W IN FRONT OF  
CLAYTON HOMES MM 17.94*

TYPE OF WORK: *CONCRETE ISLAND, GUARDRAIL,  
STRIPING, TRAFFIC CONTROL*

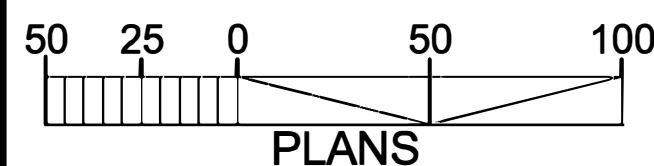
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50367	1	10
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
50367		CONSTRUCTION	



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

CONTRACT: DN01032

GRAPHIC SCALES



PROJECT LENGTH

**0.09 MILES**

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
253 WEBSTER RD., SYLVA NC, 28779

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
N/A

GARRETT B HIGDON, P.E.  
PROJECT ENGINEER

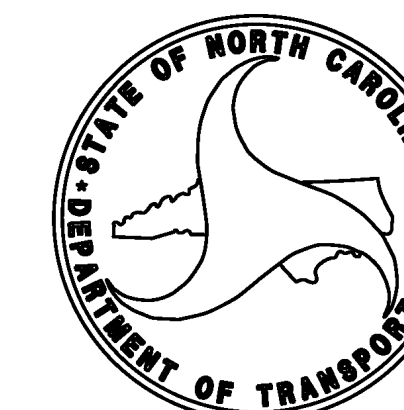
LETTING DATE:  
MAY 28, 2024

GARRETT B HIGDON, P.E.  
PROJECT DESIGN ENGINEER

ROADWAY DESIGN ENGINEER



DocuSigned by:  
*Garrett B. Higdon*  
SIGNATURE: P.E.



## INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTION
2B	ROADWAY DETAILS
3B	ROADWAY SUMMARIES
4 THRU 5	PLAN SHEETS
SIGN-1 THRU SIGN-2	SIGNING PLANS

## GENERAL NOTES: 2024 SPECIFICATIONS

## 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.

REMOVAL OF EXISTING CONCRETE ISLAND WILL BE INCIDENTAL TO REMOVAL OF ASPHALT PAVEMENT.

CONTRACTOR SHALL CONTACT CLAYTON HOMES 1 WEEK PRIOR TO BEGINING WORK.

## 2024 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, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 8 - INCIDENTALS	
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Work Zone Advance Warning Signs
1101.02	Temporary Lane Closures
1101.03	Temporary Road Closures
1101.04	Temporary Shoulder Closures
1101.05	Work Zone Vehicle Accesses
1101.06	Warning Signs for Blasting Zones
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs
1110.02	Portable Work Zone Signs
1115.01	Flashing Arrow Boards
1130.01	Drums
1135.01	Cones
1145.01	Barricades - Type III
1150.01	Flaggers
1160.01	Temporary Crash Cushion - Reflective End Treatment
1165.01	Truck Mounted Attenuator
1170.01	Portable Concrete Barrier
1180.01	Skinny Drums

# 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)	----- ○ EIP
Computed Property Corner	----- X
Existing Concrete Monument (ECM)	----- □ ECM
Parcel / Sequence Number	----- (23)
Existing Fence Line	----- -x-x-x-
Proposed Woven Wire Fence	----- ○
Proposed Chain Link Fence	----- □
Proposed Barbed Wire Fence	----- ◇
Existing Wetland Boundary	----- -MLB-
Proposed Wetland Boundary	----- MLB
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	----- X
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	----- 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	----- CR
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	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	----- CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	----- S
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

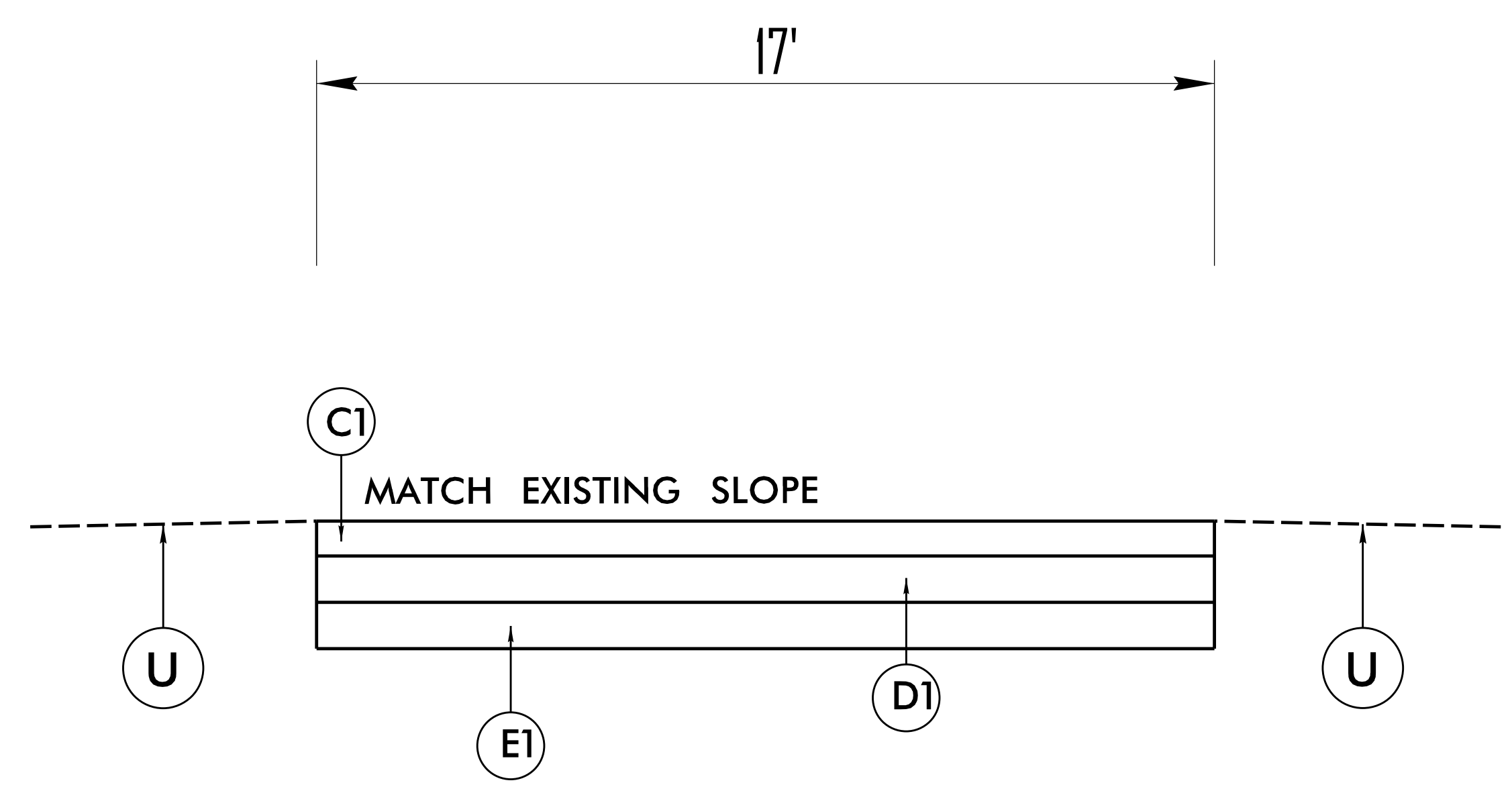
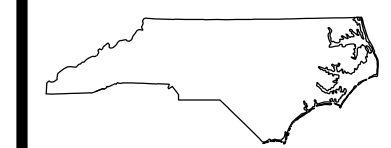
TELEPHONE:	
Existing Telephone Pole	----- ●
Proposed Telephone Pole	----- ○
Telephone Manhole	----- ⊕
Telephone Pedestal	----- ⊠
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
U/G Telephone Test Hole (SUE - LOS A)*	----- ⊕
U/G Telephone Cable (SUE - LOS B)*	----- T
U/G Telephone Cable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

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	----- 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)*	----- TUL
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	----- UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	----- ⊕
Abandoned According to Utility Records	----- AATUR
End of Information	----- E.O.I.



**TYPICAL SECTION NO. 1**

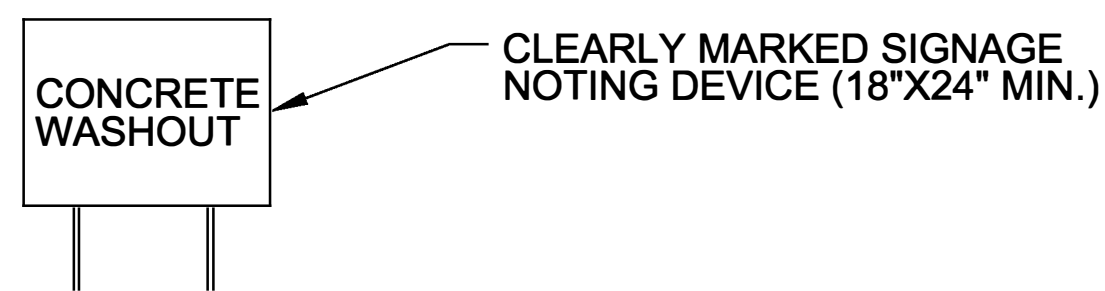
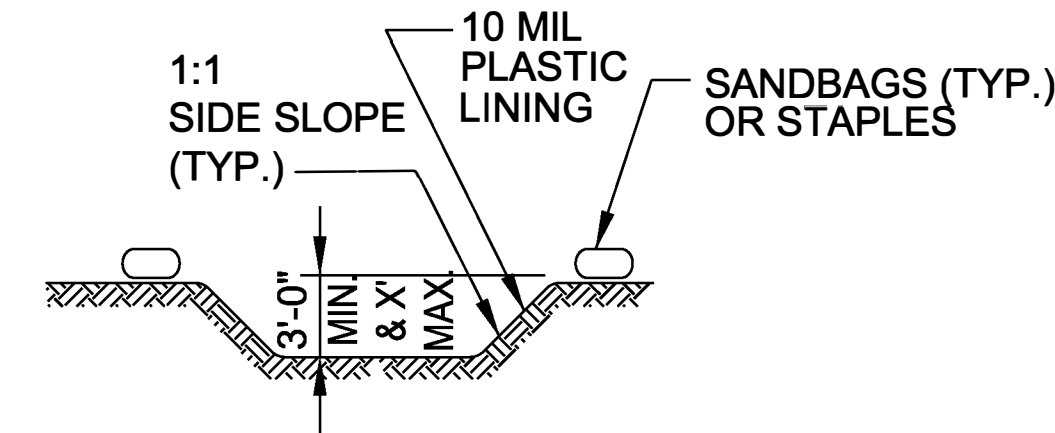
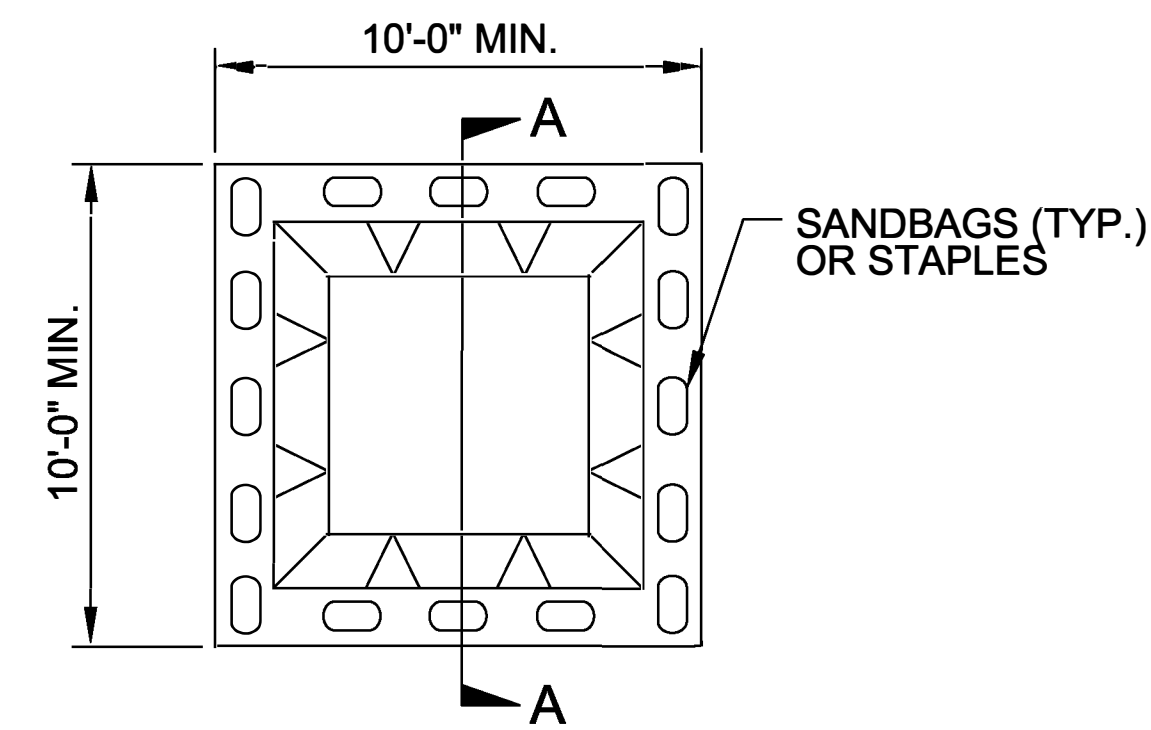
BEG. OF PROJECT TO END OF PROJECT

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 448 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
U	EXISTING PAVEMENT

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

PROJECT REFERENCE NO.	SHEET NO.
50367	2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



### SECTION A-A

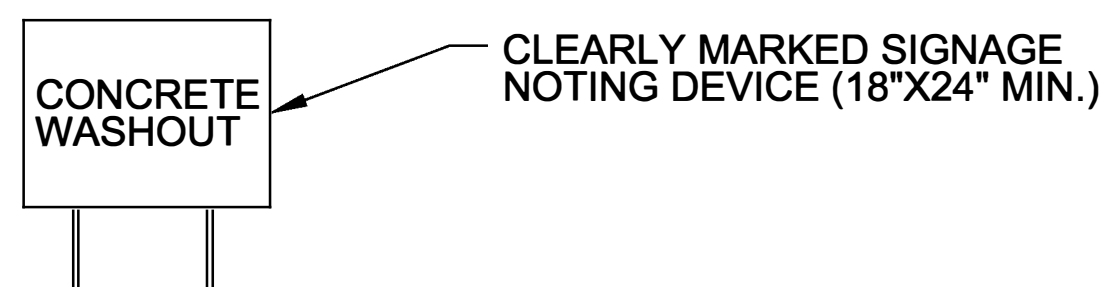
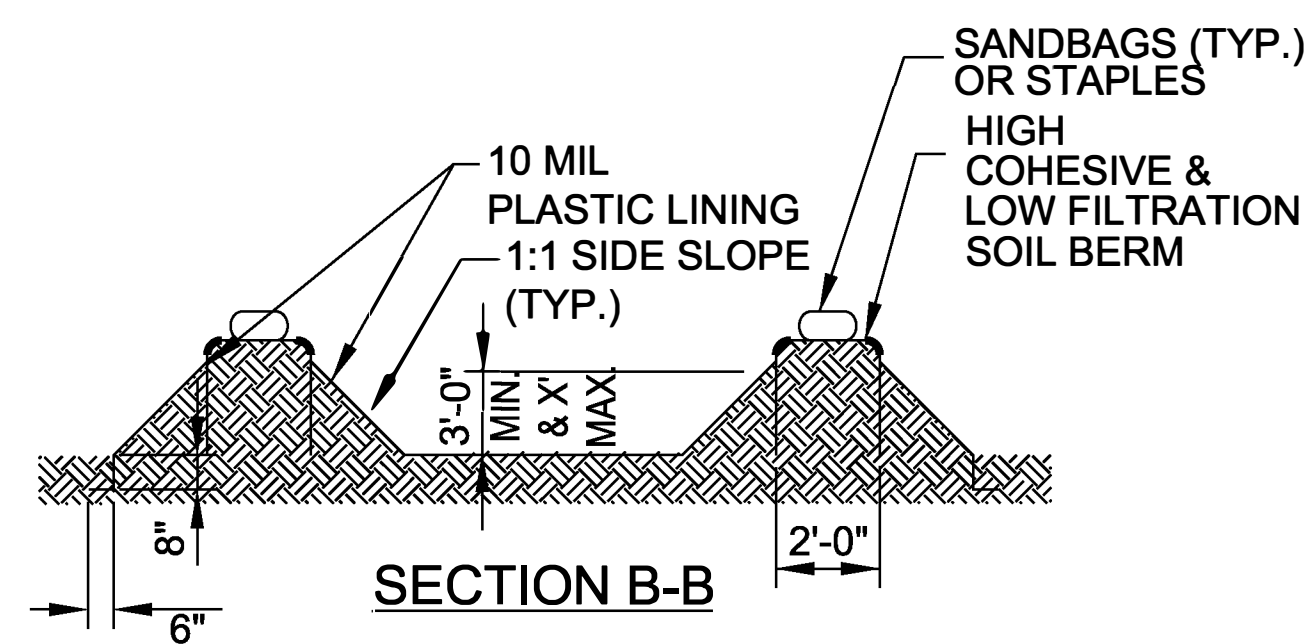
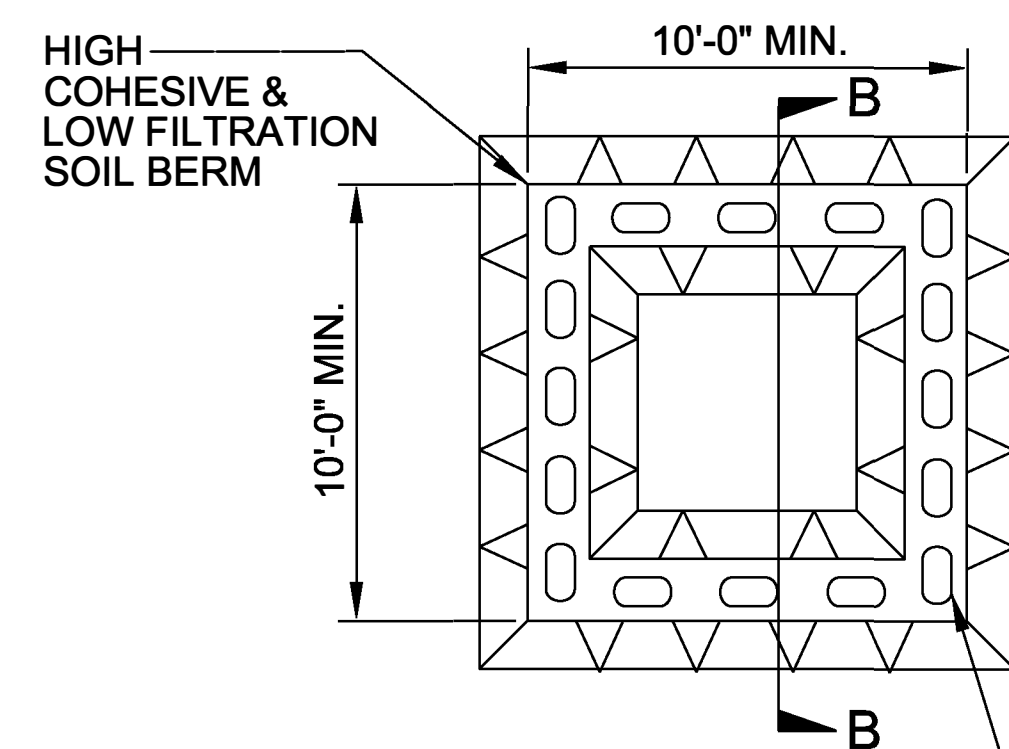
**NOTES:**

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.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

## 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.

PLAN

## ABOVE GRADE WASHOUT STRUCTURE

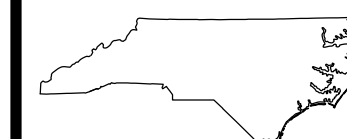
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5/26/20

50367

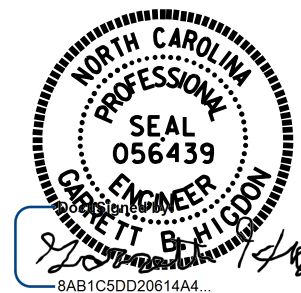
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NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION



ROADWAY DESIGN UNIT

ROADWAY DESIGN  
ENGINEER



# REMOVAL OF ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-L-	BEGINNING	END	CL	725
TOTAL:				725
SAY:				725

5/26/20

**INSTALL LANE CLOSURES PER  
NCDOT RSD 1101.02**

# PHASE 1



**REMOVE GUARDRAIL  
AND FILL POST HOLES  
WITH FLOWABLE FILL**

**SAW CUT**



50367

4

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION



ROADWAY DESIGN UNIT  
ROADWAY DESIGN  
ENGINEER





INSTALL LANE CLOSURES PER  
NCDOT RSD 1101.02

# PHASE 2

50367

5

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION



ROADWAY DESIGN UNIT  
ROADWAY DESIGN  
ENGINEER



5/26/20

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN  
HAYWOOD COUNTY

LOCATION: US 74 IN FRONT OF CLAYTON HOMES

50367

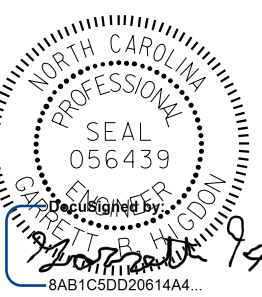
SIGN 1

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

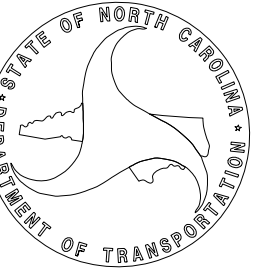
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

SEAL: \_\_\_\_\_



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ROADWAY STANDARD DRAWING

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

STD. NO.	TITLE
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
1250.01	RAISED PAVEMENT MARKER INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKER - PERMANENT AND TEMPORARY
1266.01	RAISED PAVEMENT MARKER - TUBULAR MARKERS

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS 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-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	45	L.F.
4102000000	904	SIGN ERECTION, TYPE E	3	EA.
4520000000	1266	TUBULAR MARKERS (FIXED)	12	EA.
4905100000	1253	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKERS	15	EA.

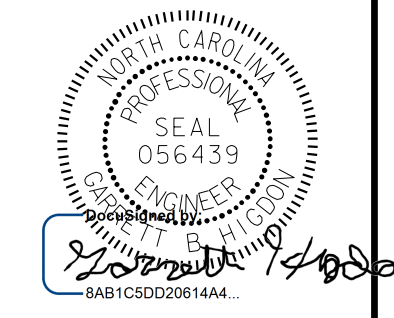
INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	SIGNING PLAN SHEETS

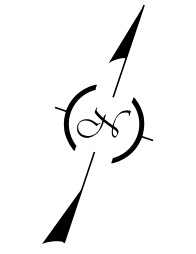
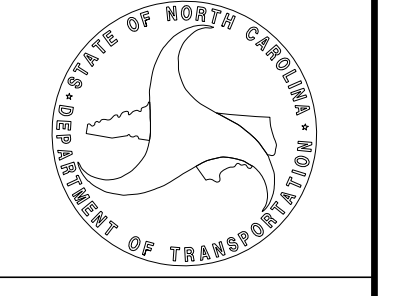
PLAN PREPARED BY: DIVISION OF HIGHWAYS DIVISION 14

GARRETT B HIGDON, P.E. PROJECT ENGINEER  
GARRETT B HIGDON, P.E. PROJECT DESIGN ENGINEER

CONTRACT: DN01032



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Y YELLOW TUBULAR MARKERS

W WHITE TUBULAR MARKERS