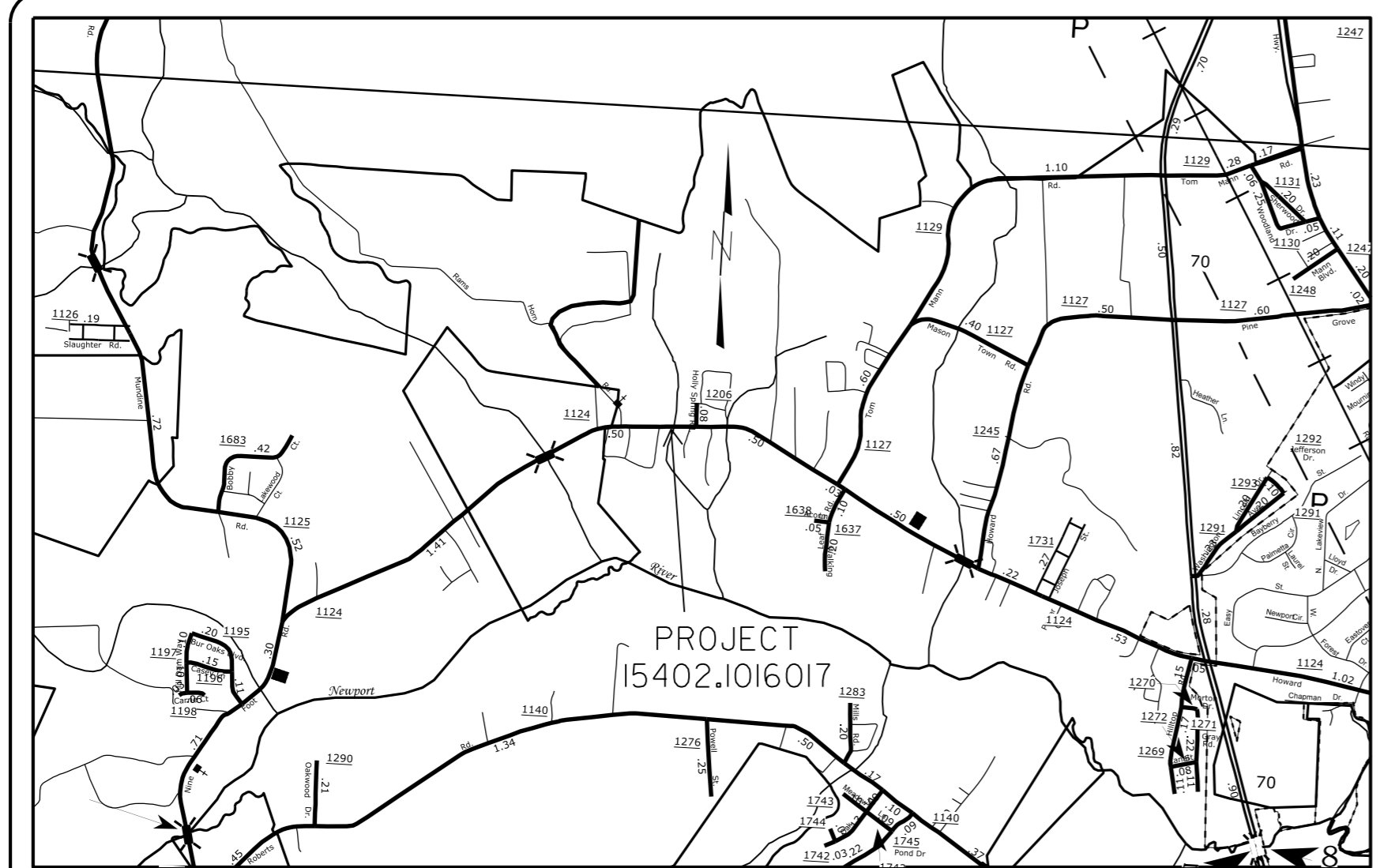


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**TIP PROJECT: 15402.1016017**

**CONTRACT: DB00473**



See Sheet 1A For Index of Sheets

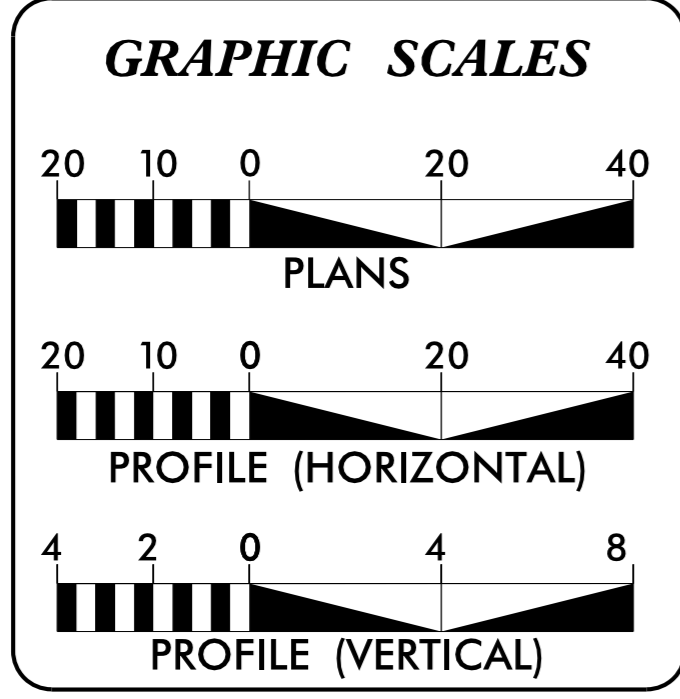
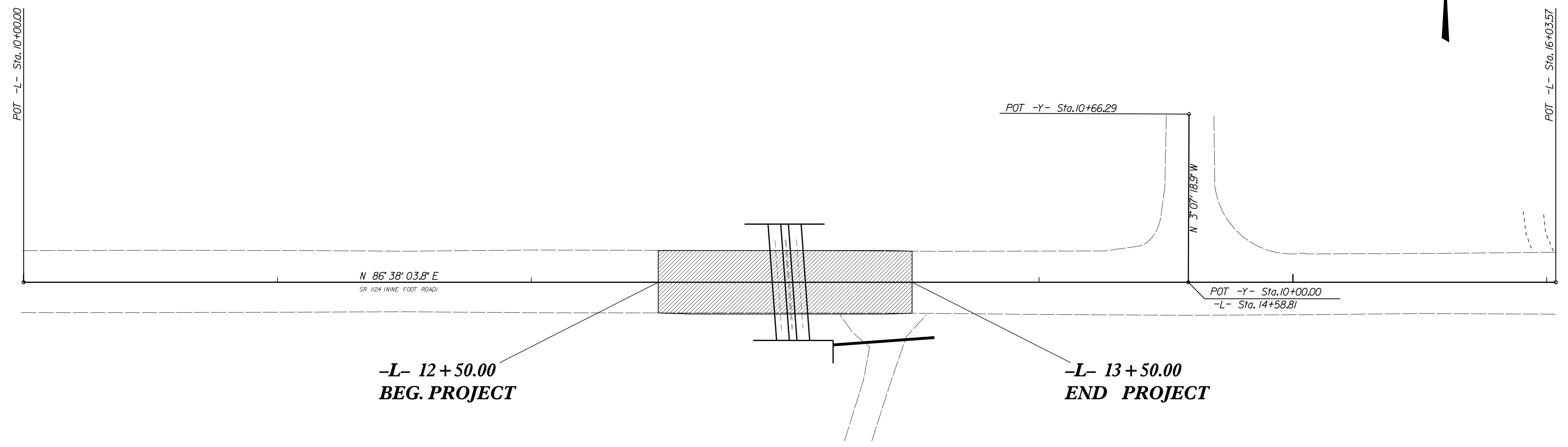
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CARTERET COUNTY**

**LOCATION: SR 1124 (NINE FOOT ROAD)  
1.9 MILES WEST OF US 70**

**TYPE OF WORK: CULVERT REPLACEMENT  
DAMAGE DUE TO EFFECTS OF  
HURRICANE FLORENCE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15402.1016017	1	14
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



**PROJECT LENGTH**

**LENGTH OF PROJECT 15402.1016017 = 0.019 MI**

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

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
APRIL 2019

**LETTING DATE:**  
NOVEMBER 2019

**JEFFREY D. CABANISS, PE.**  
PROJECT ENGINEER

**LANG JONES**  
PROJECT DESIGN ENGINEER

**JAMES L. EDWARDS, PLS.**  
PLANS PREPARED BY

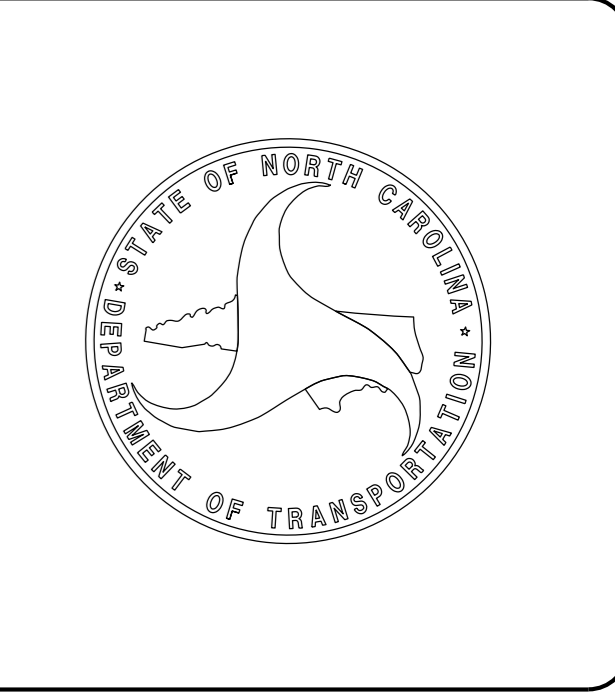
**HYDRAULICS ENGINEER**

DocuSigned by:  
*Jeffrey D. Cabaniss*  
SIGNATURE:

**ROADWAY DESIGN ENGINEER**

DocuSigned by:  
*Jeffrey D. Cabaniss*  
SIGNATURE:

Professional Engineer Seals for Jeffrey D. Cabaniss, P.E. (034398) and Jeffrey D. Cabaniss, P.E. (1011111111)



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

REVISIONS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK
4	PLANSHEET
TMP1-TMP2	TRAFFIC MANAGEMENT PLANS
EC1-EC3	EROSION CONTROL
X1A	CROSS SECTION SUMMARY
X1	CROSS SECTION SHEET

GENERAL NOTES:

2018 SPECIFICATIONS  
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

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.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE 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.

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.

UTILITIES:

ALL UTILITIES WILL BE RELOCATED BY OTHERS.  
OWNERS:  
CENTURYLINK  
CARTERET-CRAVEN ELECTRIC  
TIME WARNER CABLE-CHARTER

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 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL

DIVISION 3 - PIPE CULVERT	
300.01	METHOD OF PIPE INSTALLATION

DIVISION 16 - EROSION CONTROL	
1605.01	TEMPORARY SILT FENCE

8/17/99

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

## BOUNDARIES AND PROPERTY:

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

## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
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	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

## RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

## 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	○

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

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:

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 LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

## WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	----- W
U/G Water Line LOS C (S.U.E.*)	----- W
U/G Water Line LOS D (S.U.E.*)	----- W
Above Ground Water Line	----- A/G Water

## TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

## GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

## SANITARY SEWER:

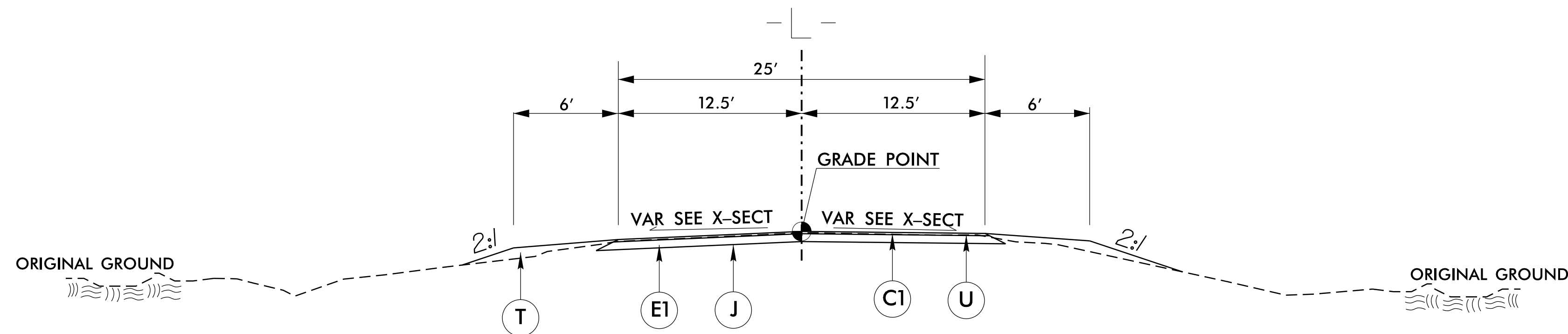
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

## MISCELLANEOUS:

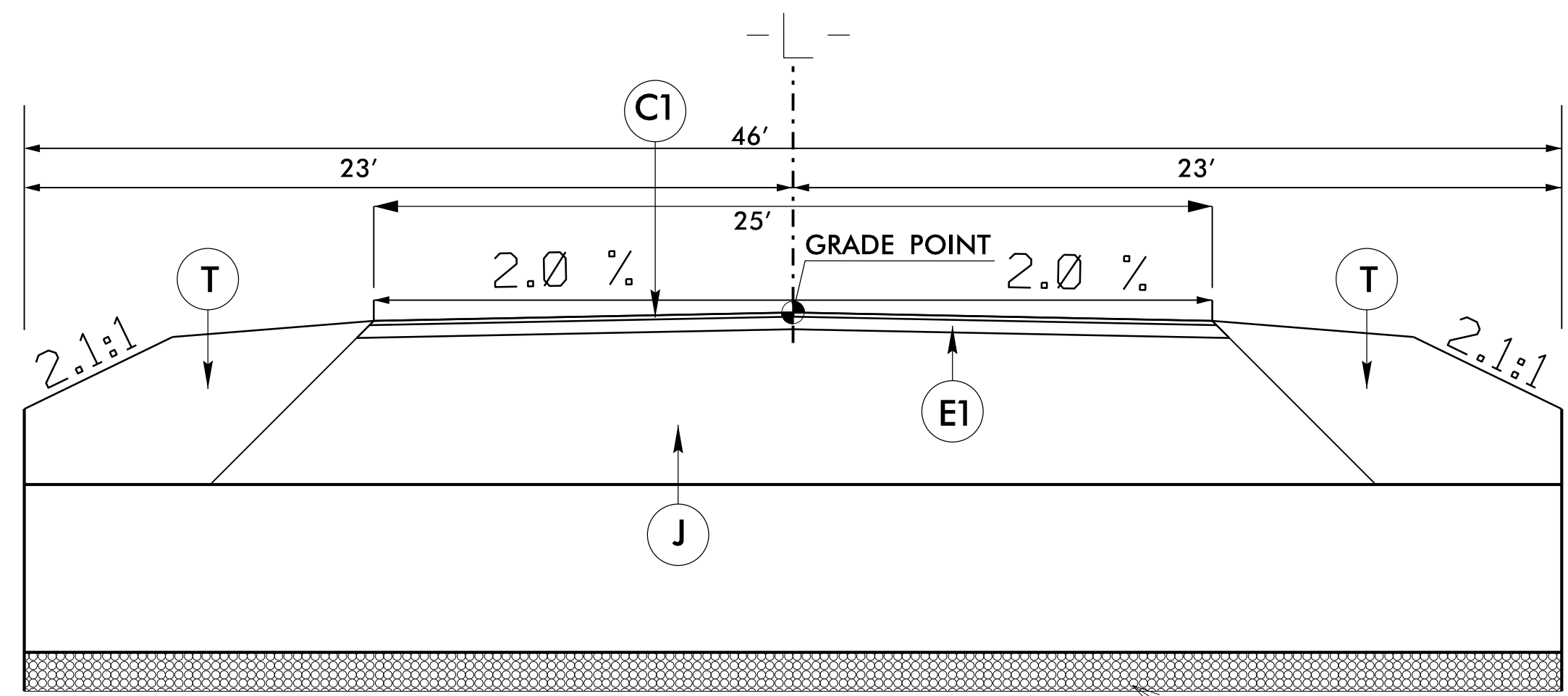
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	----- ?UTL
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	⊕ UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A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

<b>C1</b>	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
<b>E1</b>	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
<b>J</b>	VARIABLE DEPTH AGGREGATE BASE COURSE
<b>J1</b>	#57 STONE
<b>T</b>	EARTH MATERIAL
<b>U</b>	EXISTING PAVEMENT
<b>V1</b>	GEOTEXTILE SEPARATOR FABRIC

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

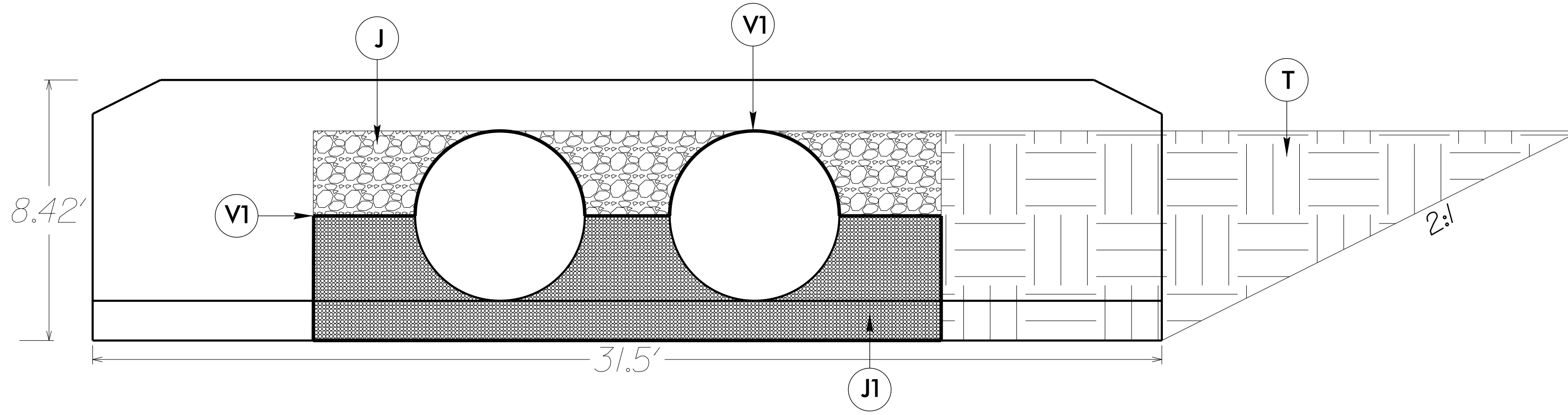


USE TYPICAL SECTION #1  
-L- 12+50 TO 13+50



VARIABLE DEPTH  
#57 STONE  
TO BTM OF HW

SIDE VIEW  
-L- 13+01.45



END VIEW  
-L- 13+01.45

REVISIONS

8/17/99  
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**SUMMARY OF QUANTITIES**

SECT	QUANTITY	UNIT	ITEM DESCRIPTION
800	1	LS	MOBILIZATION
801	1	LS	CONSTRUCTION SURVEYING
226	1	LS	GRADING
300	10	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
300	20	SY	FOUNDATION CONDITIONING GEOTEXTILE
310	40	LF	18" SIDE DRAIN PIPE
SP	1	LS	INSTALLATION OF NCDOT SUPPLIED 46.0' OF (2) 60" DIA. ALUMINUM PIPE WITH HEADWALLS
402	1	LS	REMOVAL OF EXISTING STRUCTURE AT STATION (-L-13+01.45)
520	300	TON	AGGREGATE BASE COURSE
SP	100	TON	#57 STONE
SP	175	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION (CONTINGENCY)
SP	225	SY	GEOTEXTILE SEPARATOR FABRIC
610	120	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
610	40	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
620	10	TON	ASPHALT BINDER FOR PLANT MIX
1605	325	LF	TEMPORARY SILT FENCE
SP	200	SY	COIR FIBER MAT (CONTINGENCY)
SP	100	SY	COIR FIBER WATTLE
1660	0.2	ACRE	SEEDING AND MULCHING
1661	50	LB	SEED FOR REPAIR SEEDING
1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING
SP	75	LF	IMPERVIOUS DIKE
SP	3	EA	RESPONSE FOR EROSION CONTROL
SP	1	LS	DEWATERING
SP	200	LF	SAFETY FENCE

REVISIONS

8/17/99

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## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### ***LIST OF PIPES, ENDWALLS, ETC.***

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE %	CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D														REMARKS			
		FROM	TO					15"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	60"	(2) 60" DIA. ALUMINUM PIPE WITH 31'-6" X 7'-8" HEADWALLS				
-L- 13+01.45	CL	1			2.32'	2.32'	0.0%																(2) 46.0'		
-L- 13+38.83	RT	2	OUT		7.38'	5.32'	5.2%	40.0'																CAP	
<b>TOTALS</b>								40.0'																92.0'	

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.  
See "Standard Specifications For Roads and Structures, Section 300-5".

#### **SUMMARY OF EARTHWORK IN CUBIC YARDS**

LOCATION	UNCLASSIFIED EXCAVATION	STRUCTURE EXCAVATION	UNDERCUT	EMBT+ %	BORROW	WASTE
-L- 12+50.00 - 13+50.00	36	0	0	133	97	0
-L- 12+63.02 - 13+39.74	0	1000	100	0	0	1000
EXISTING 2) 48" CMP		-33				
NEW STRUCTURE				200		
<b>SUB TOTAL</b>	36	967	100	333	97	
<b>SAY</b>	36	967	100	333	0	670

#### **PAVEMENT REMOVAL SUMMARY IN SQUARE YARDS**

LINE	STATION - STATION	LOCATION	REMOVAL (SY)
-L-	12+63.02 - 13+39.74	CL	214
<b>TOTAL</b>			214
<b>SAY</b>			214

NOTE: APPROXIMATE QUANTITIES ONLY.  
UNCLASSIFIED EXCAVATION, UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

REVISIONS

8/17/99

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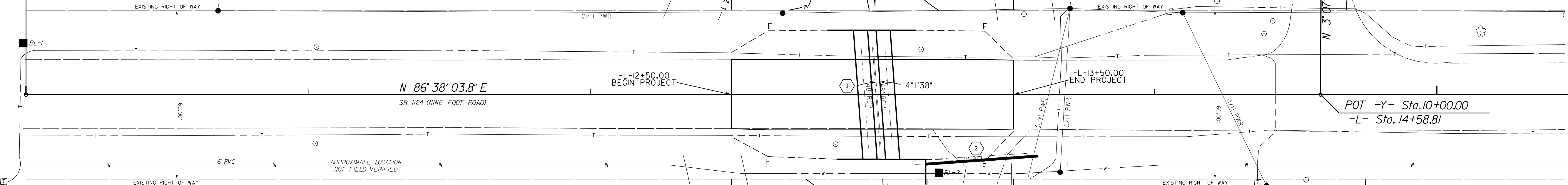
**PROPOSED TEMPORARY CONSTRUCTION EASEMENT AREA SUMMARY**

PARCEL NO.	PROPERTY OWNER NAME	LOCATION	TOTAL PARCEL AREA [ACRES]	AREA TO BE [TCE] [ACRES]	PARCEL AREA REMAINING [ACRES]
1	GARNER, MACON, ETALS.	LT/RT	34.17	0.046	34.124
2	GARNER, AILENE G. ETALS.	LT/RT	5.80	0.045	5.755

STATION/OFFSET	LOCATION	NORTH	EAST	DESCRIPTION
-L-12+50.00; 30.0' LT	LT	N 388,543.8940	E 2,626,527.9466	TIE POINT
-L-12+50.00; 50.0' LT	LT	N 388,563.8595	E 2,628,526.7725	CORNER
-L-12+94.86; 50.0' LT	LT	N 388,566.4928	E 2,628,571.5503	INTERSECTION
-L-13+50.00; 50.0' LT	LT	N 388,569.7302	E 2,628,626.6000	CORNER
-L-13+50.00; 30.0' LT	LT	N 388,549.7647	E 2,628,627.7741	TIE POINT
-L-12+50.00; 30.0' RT	RT	N 388,483.9975	E 2,628,531.4690	TIE POINT
-L-12+50.00; 50.0' RT	RT	N 388,464.0320	E 2,628,532.6432	CORNER
-L-13+04.70; 50.0' RT	RT	N 388,467.2432	E 2,628,587.2482	INTERSECTION
-L-13+50.00; 50.0' RT	RT	N 388,469.9027	E 2,628,632.4707	CORNER
-L-13+50.00; 30.0' RT	RT	N 388,489.8682	E 2,628,631.2966	TIE POINT

POT -L- Sta. 10+00.00

POT -Y- Sta. 10+66.29



**GRID COORDINATES ALIGNMENT & CONTROL NOTES**

BL-1	N 388,517.5100 E 2,628,278.1800	ELEVATION = 10.93'
BL-2	N 388,490.6250 E 2,628,604.8300	ELEVATION = 10.03'
BL-3	N 388,517.7410 E 2,628,892.6710	ELEVATION = 11.89'
-L- POT 10+00.00	N 388,499.2690 E 2,628,280.1390	
-L- POT 16+03.57	N 388,534.7030 E 2,628,882.6710	
-Y- POT 10+00	N 388,526.2042 E 2,628,738.1551	
-Y- POT 10+66.29	N 388,592.3940 E 2,628,734.5450	

1  
GARNER, MACON, ETALS.  
880 NINE FOOT RD.,  
NEWPORT, NC, 28570  
DB 549, P 470  
34.17 ACRES

2  
GARNER, AILENE G. ETALS.  
827 NINE FOOT RD.,  
NEWPORT, NC, 28570  
DB 277, P 222  
5.8 ACRES

THOMAS, ROY, DONNA, ETALS  
830 NINE FOOT RD.,  
NEWPORT, NC, 28570  
DB 1043, P 60  
0.64 ACRES

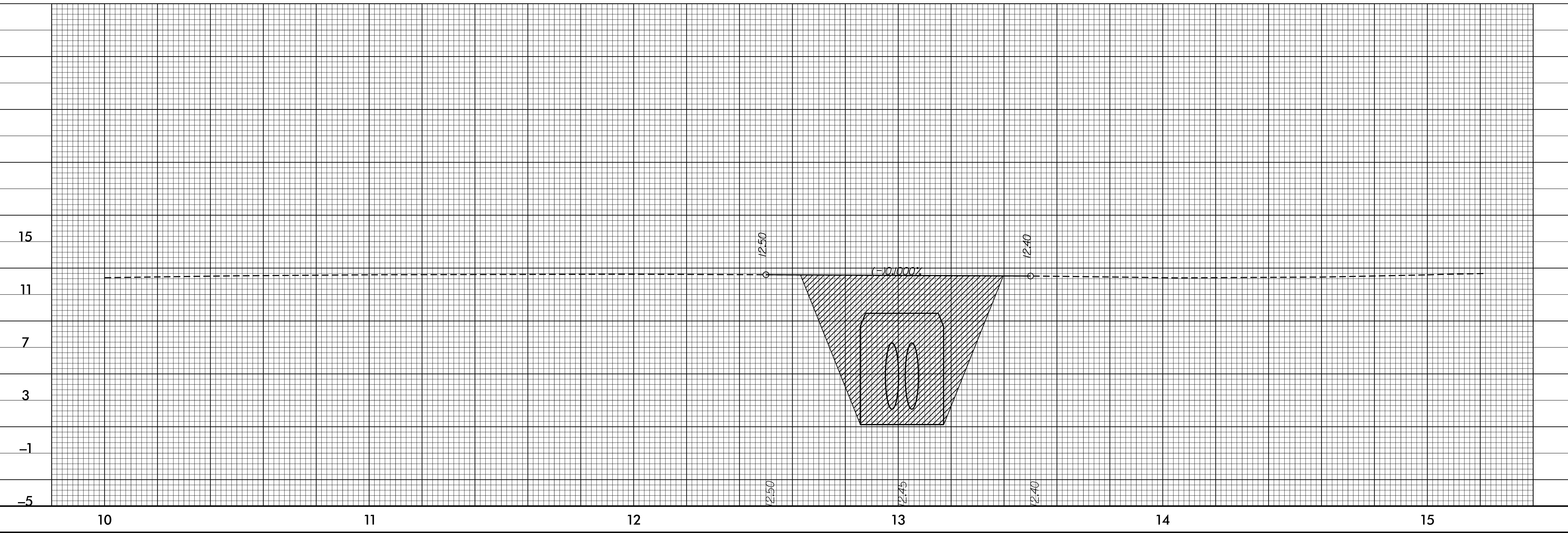
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GARNER, MACON, ETALS.  
880 NINE FOOT RD.,  
NEWPORT, NC, 28570  
DB 549, P 470  
34.17 ACRES

2  
GARNER, AILENE G. ETALS.  
827 NINE FOOT RD.,  
NEWPORT, NC, 28570  
DB 277, P 222  
5.8 ACRES

KOKORUDA, THOMAS A.  
837 NINE FOOT RD.,  
NEWPORT, NC, 28570  
DB 1546, P 426  
0.22 ACRES

REVISIONS

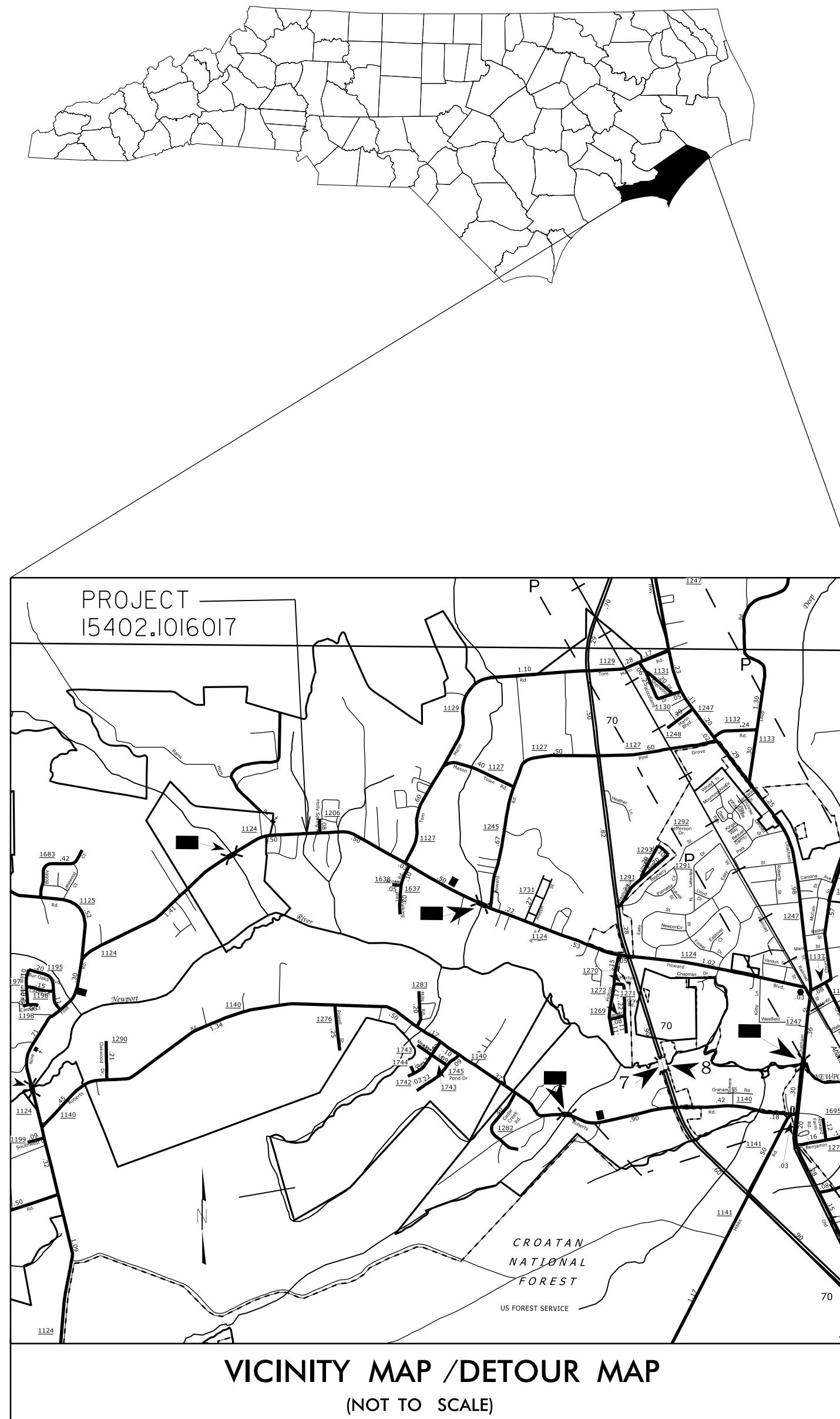
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**CARTERET COUNTY**



**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET WITH VICINITY MAP & INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2	PROJECT NOTES, DETOUR AND PLANS.

**ROADWAY 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:

STD. NO.	TITLE
1101.03 (SHT. 1 OF 9)	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES (TYPE III)

**LEGEND**

**GENERAL**

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

**TRAFFIC CONTROL DEVICES**

- BARRICADE (TYPE III)

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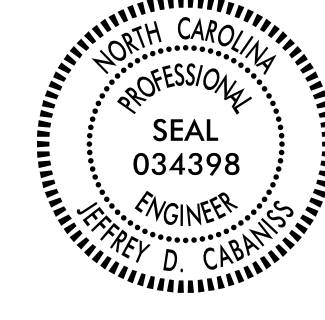
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL  
1037 WH SMITH BLVD, GREENVILLE, NC 27834  
PHONE: (252) 439-2840 FAX: (252) 830-3352

JEFFREY D. CABANISS, PE **TRAFFIC ENGINEER**  
JEFFREY D. CABANISS, PE **TRAFFIC CONTROL PROJECT ENGINEER**  
LANG JONES **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**  
LANG JONES **TRAFFIC CONTROL DESIGN ENGINEER**



APPROVED *Jeffrey D. Cabaniss*  
DATE: 10/27/2019

SEAL



SHEET NO.  
TMP-1

STATE PROJECT: 15402.1016017

STATE PROJECT: 15402.1016017

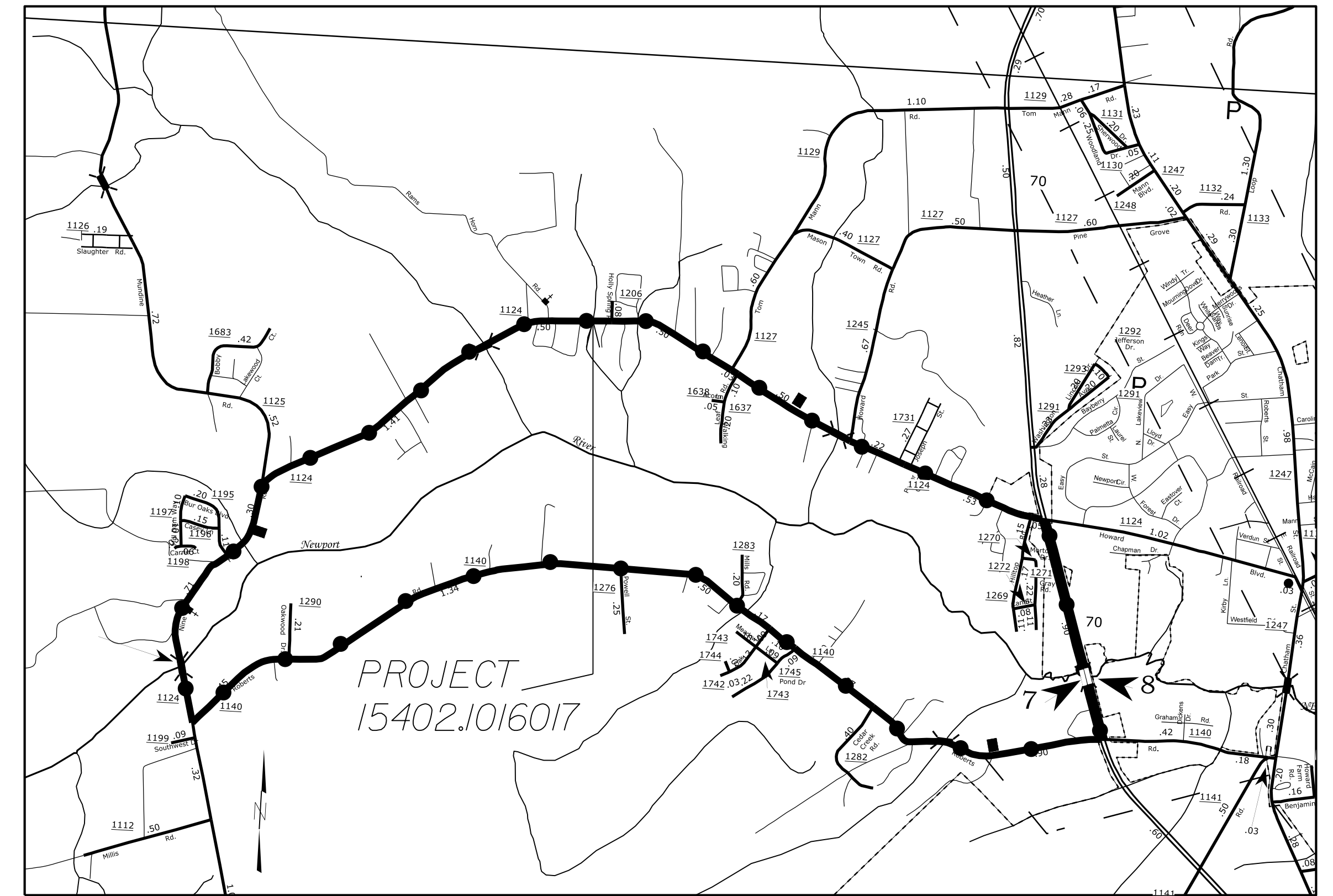


# GENERAL NOTES

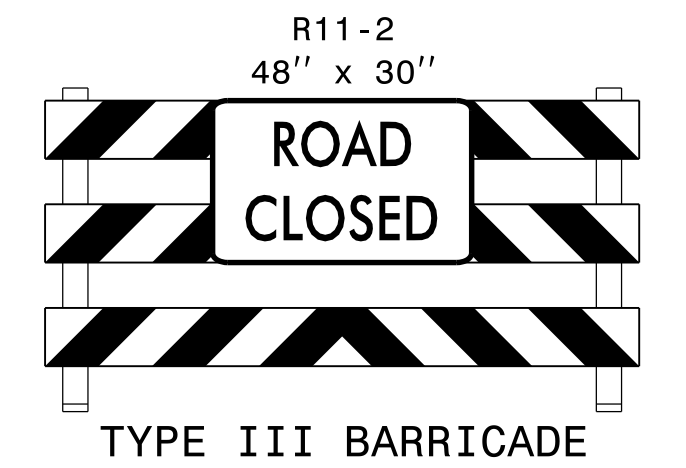
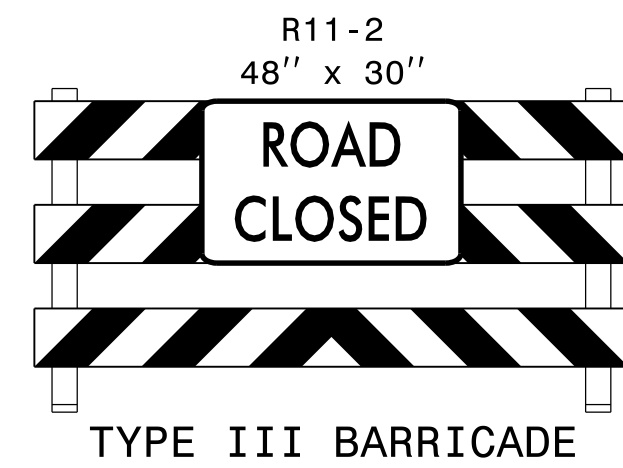
IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TMP-1.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOUR AND THE TYPE III BARRICADES AT THE PROJECT LIMITS. STATE FORCES WILL INSTALL PAINT AND MARKERS ON THE FINISHED PROJECT. CONTACT JEFFREY DUNNING AT 252-439-2950 FOR COORDINATION. PROVIDE A MINIMUM 2 WEEK NOTICE.



DETOUR ROUTE

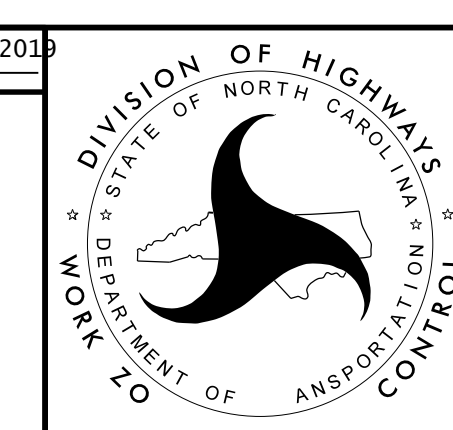
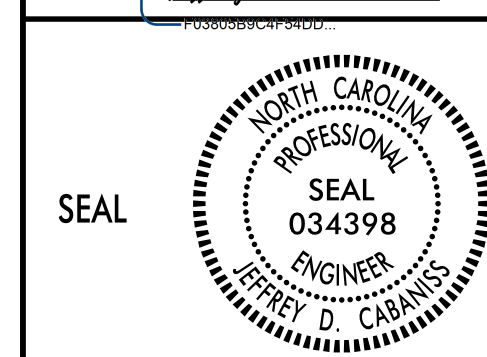


-L-12+50.00  
 BEGIN PROJECT

-L-13+50.00  
 END PROJECT

SR 1124 (NINE FOOT ROAD)

APPROVED: *Jeffrey D. Cabanis* DATE: 10/17/2019



TRANSPORTATION  
 OPERATIONS  
 PLAN

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 \$\$\$USERNAME\$\$\$

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15402.1016017	1	3
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

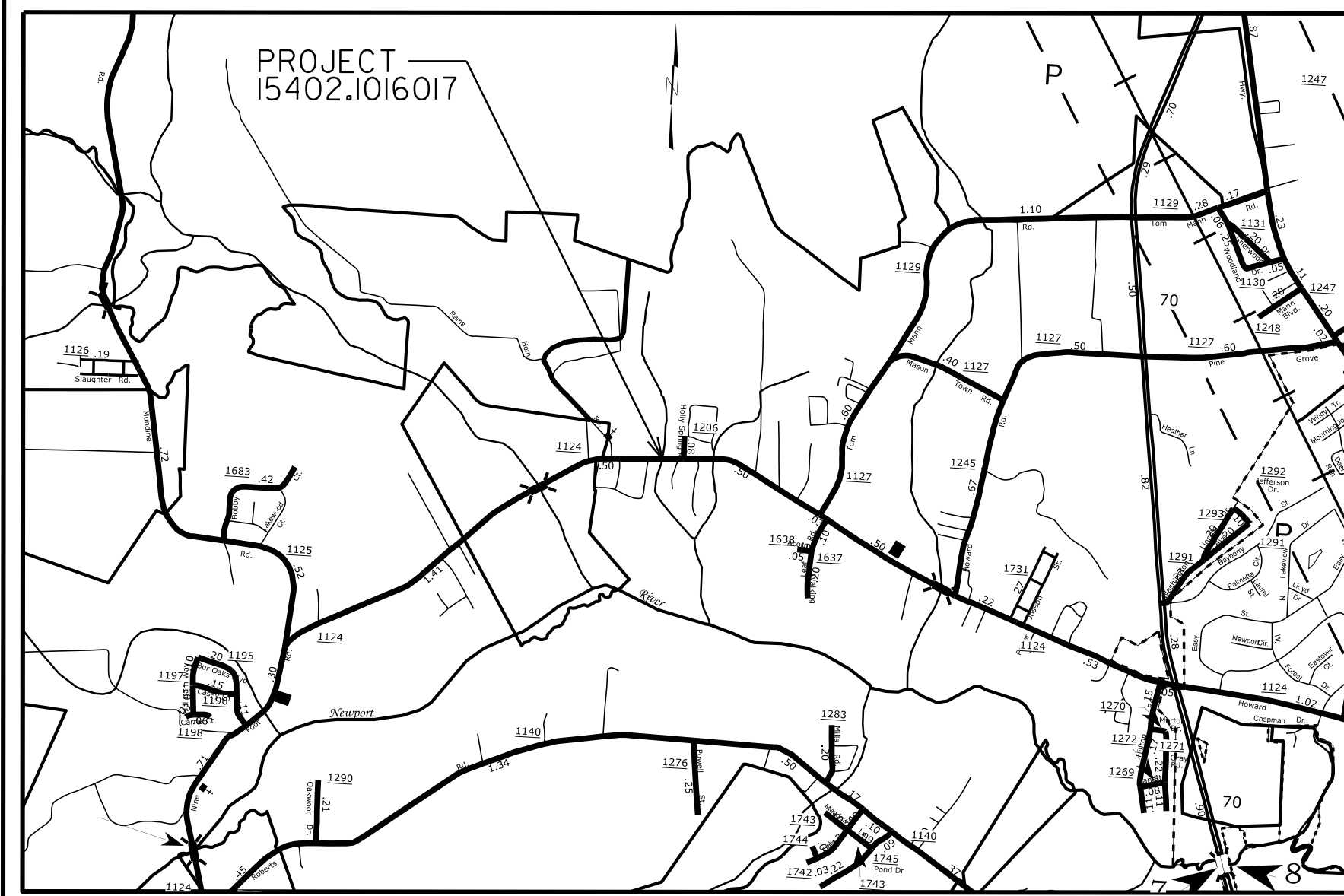
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

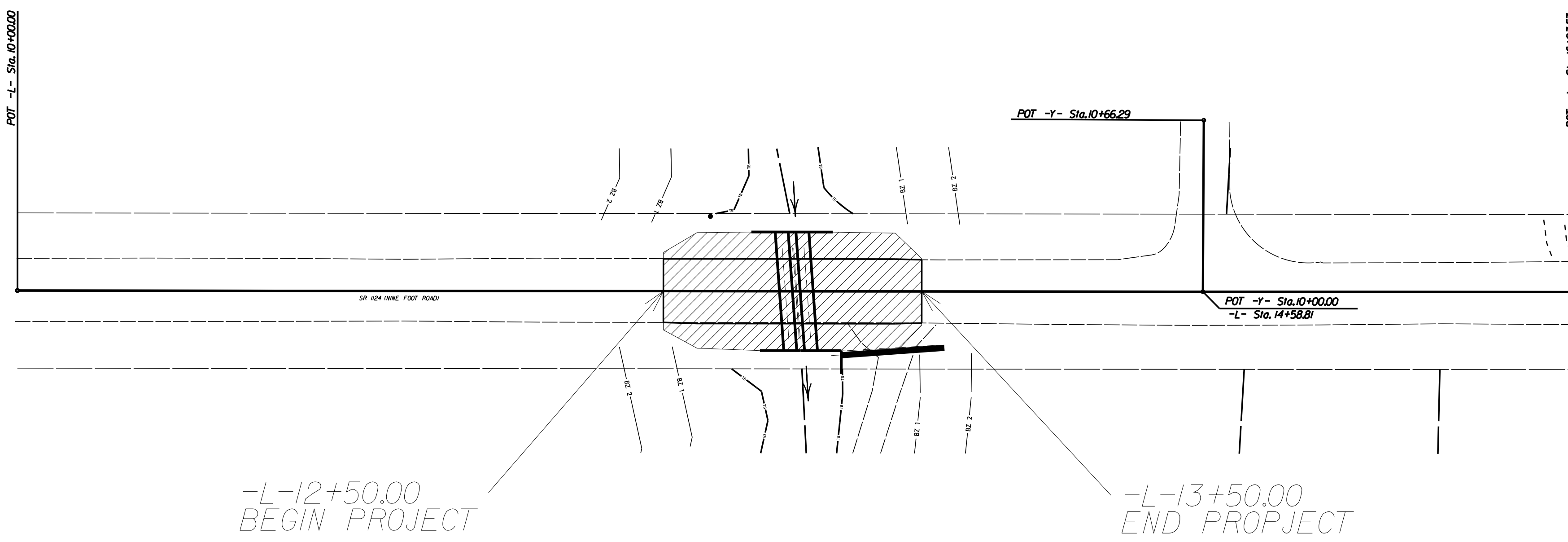
**CARTERET COUNTY**

LOCATION: SR1124 (NINE FOOT ROAD)  
1.9 MILES WEST OF US 70

TYPE OF WORK: CULVERT REPLACEMENT



VICINITY MAP  
(NOT TO SCALE)



EROSION AND SEDIMENT CONTROL MEASURES

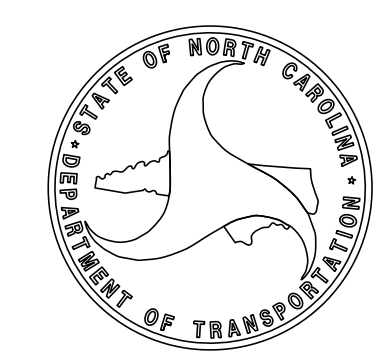
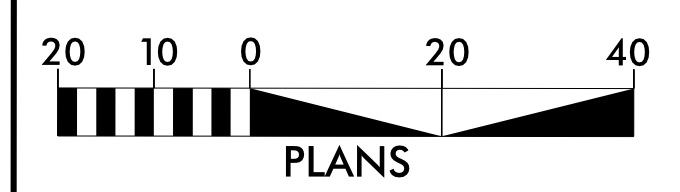
Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.01	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	T
1630.02	Silt Basin Type B	S
1633.01	Temporary Rock Silt Check Type-A	R
1633.02	Temporary Rock Silt Check Type-B	R
1633.02	Wattle / Coir Fiber Wattle	W
1633.02	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	RSD
1634.02	Temporary Rock Sediment Dam Type-B	RSD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPI
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPI
1630.04	Stilling Basin	S
1630.06	Special Stilling Basin	SS
1632.01	Rock Inlet Sediment Trap Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	S
	Tiered Skimmer Basin	TS
	Infiltration Basin	I

TIP PROJECT: 15402.1016017

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

GRAPHIC SCALES



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.

2018 STANDARD SPECIFICATIONS

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
1037 WH SMITH BLVD  
GREENVILLE, NC 27834  
  
JAMES L. EDWARDS, PLS.  
LEVEL III  
CERTIFICATION #3277

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 J
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 J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
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 J
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

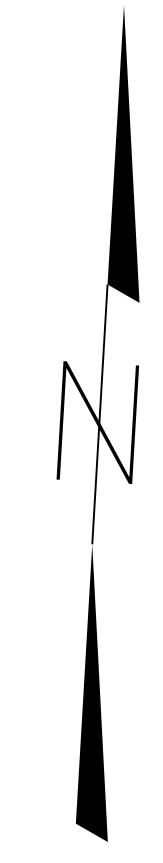
11-OCT-2019 11:00 G:\PROJECTS\CARTERET\SR 1124 Nine Foot Road Pipe Replacement\SR1124\_ECI.dgn \$\$\$USERNAME\$\$\$

### SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) 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 HOW ZONES.

NOTE: THE CONTRACTOR SHALL INSTALL WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR AS DIRECTED BY THE ENGINEER.

NOTES: 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.  
CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

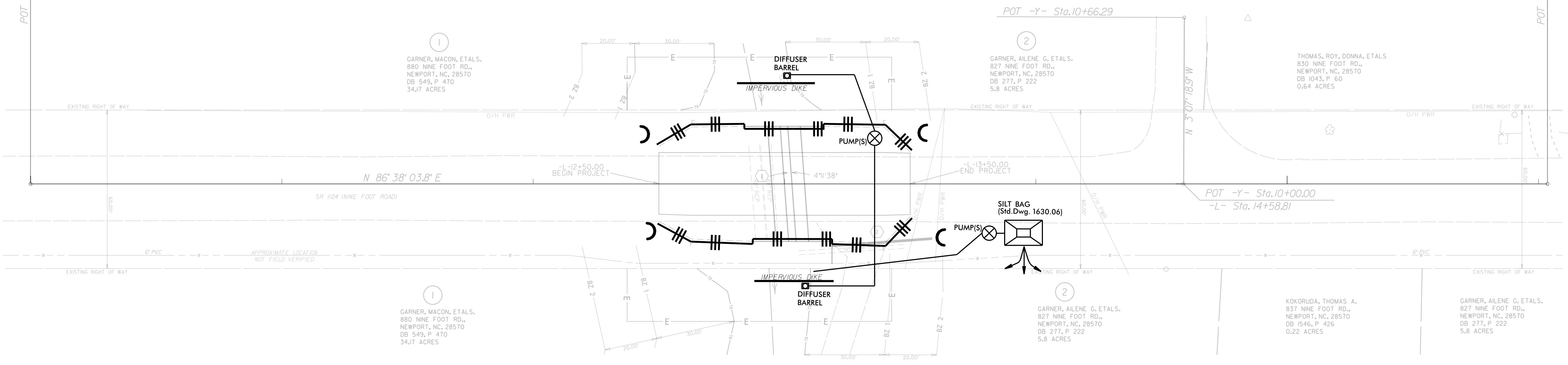


REVISIONS

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15

POT -L- Sta. 16+03.57



**NOTE: COIR FIBER MATTING,  
PLACED AS DIRECTED BY ENGINEER**

**PERMIT: NWP3**

#### Pipe Installation Schedule

1. Install erosion control devices per plans, including impervious dikes, silt bag and turbidity curtain (if needed).
2. Remove material (asphalt, debris, and waste) and existing pipe while limiting, as much as possible, material and sediment from entering the stream and/or escaping from the project. Stockpile any material that can be reused (contained within silt fence).
3. Prepare pipe foundation. The new grade should be one foot below the existing streambed. Bedding material will be cleaned/washed stone.
4. Place new pipe and compact fill. Install slope protection on inlet and outlet as permit allows.
5. Complete installation of erosion control measures (wattles, silt fences, etc.) and perform maintenance as needed on existing measures.
6. Matting with nylon mesh cannot be used within 25' of the top of the stream bank.
7. Establishment permanent vegetation as soon as possible. The disturbed areas will be seeded, mulched, crimped, and tacked. Once vegetation has been established and approval given, EC devices will be removed.

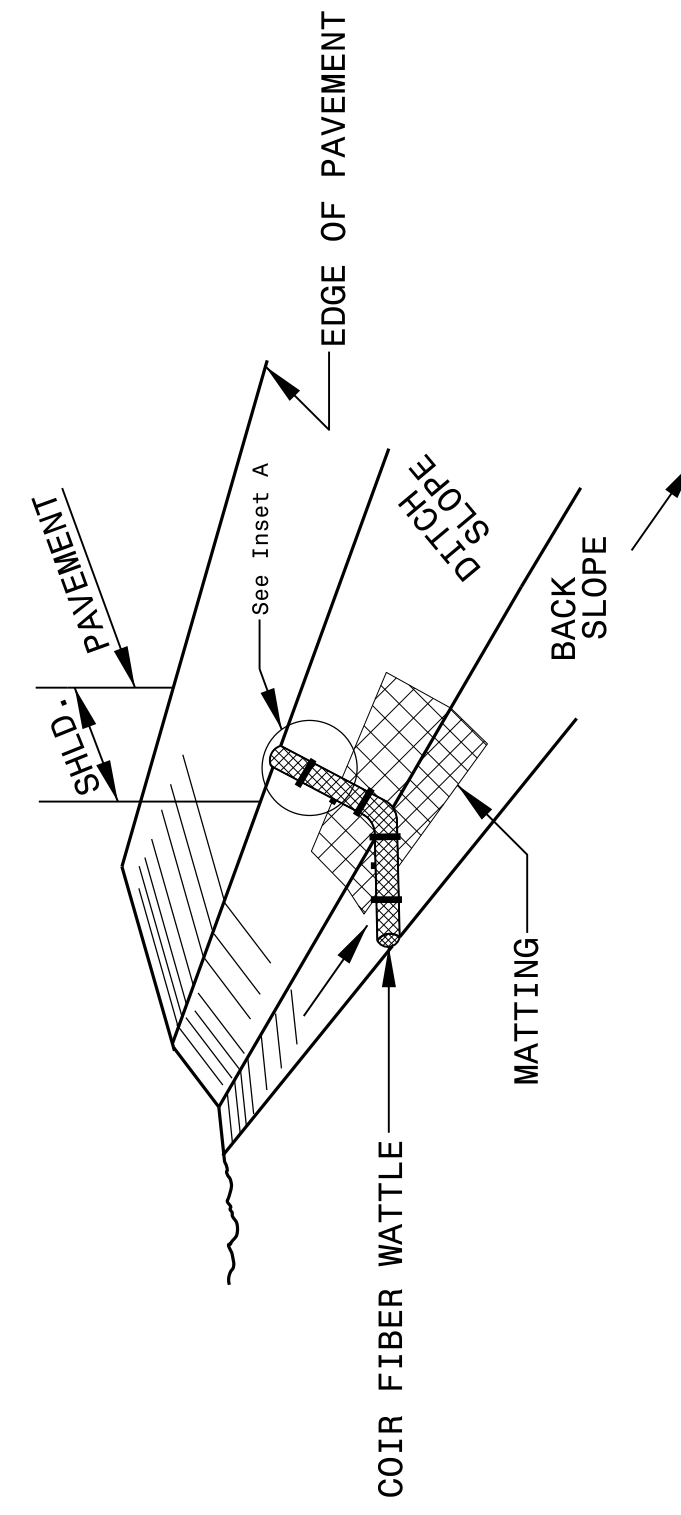
\*\*\*Perform weekly NPDES inspections and document using the most recent NPDES inspection form. Inspections are also required within 24 hours of a 1 inch rainfall event that occurs within 24 hours.

8/17/99

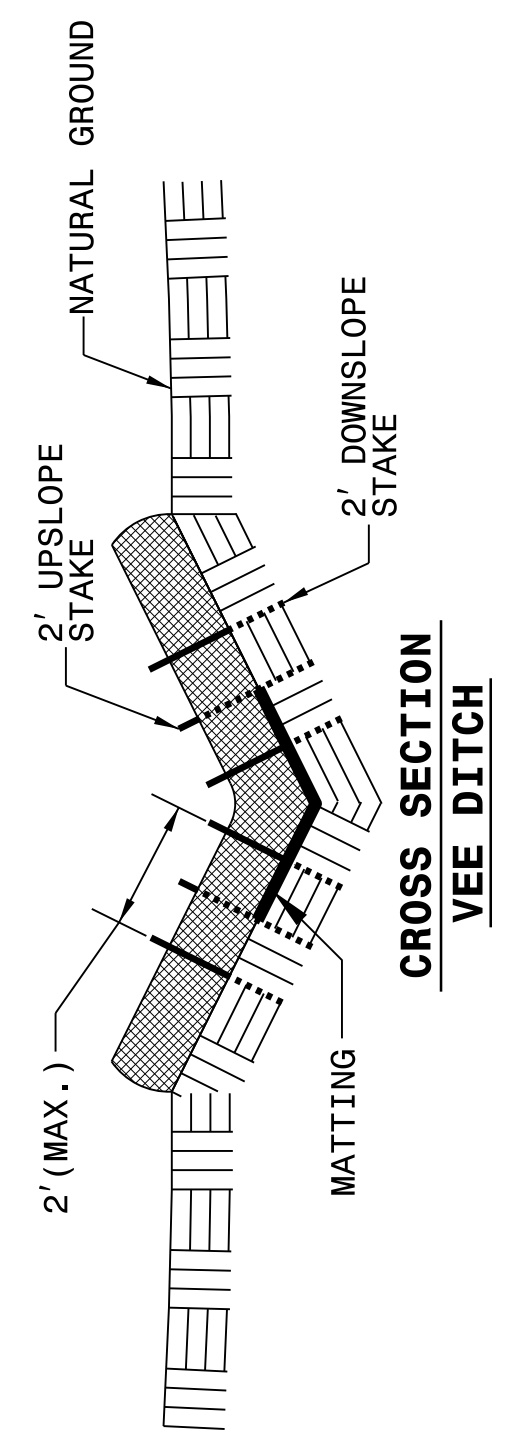
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# COIR FIBER WATTLE DETAIL

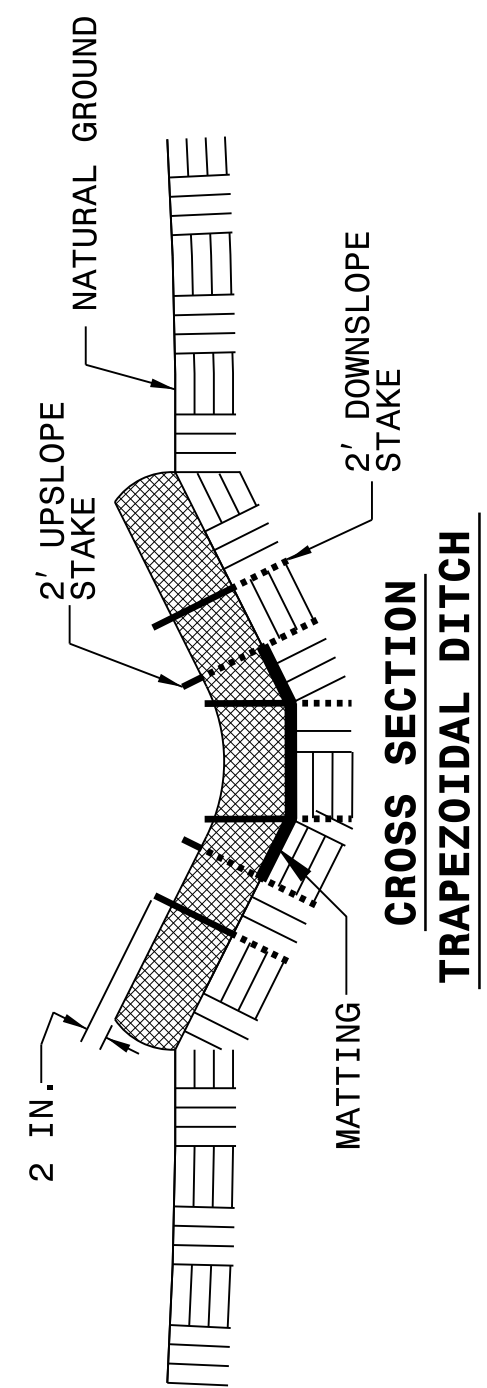
NOTES:  
 USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.  
 USE 3 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.  
 ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.  
 INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.  
 PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.  
 INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.  
 INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



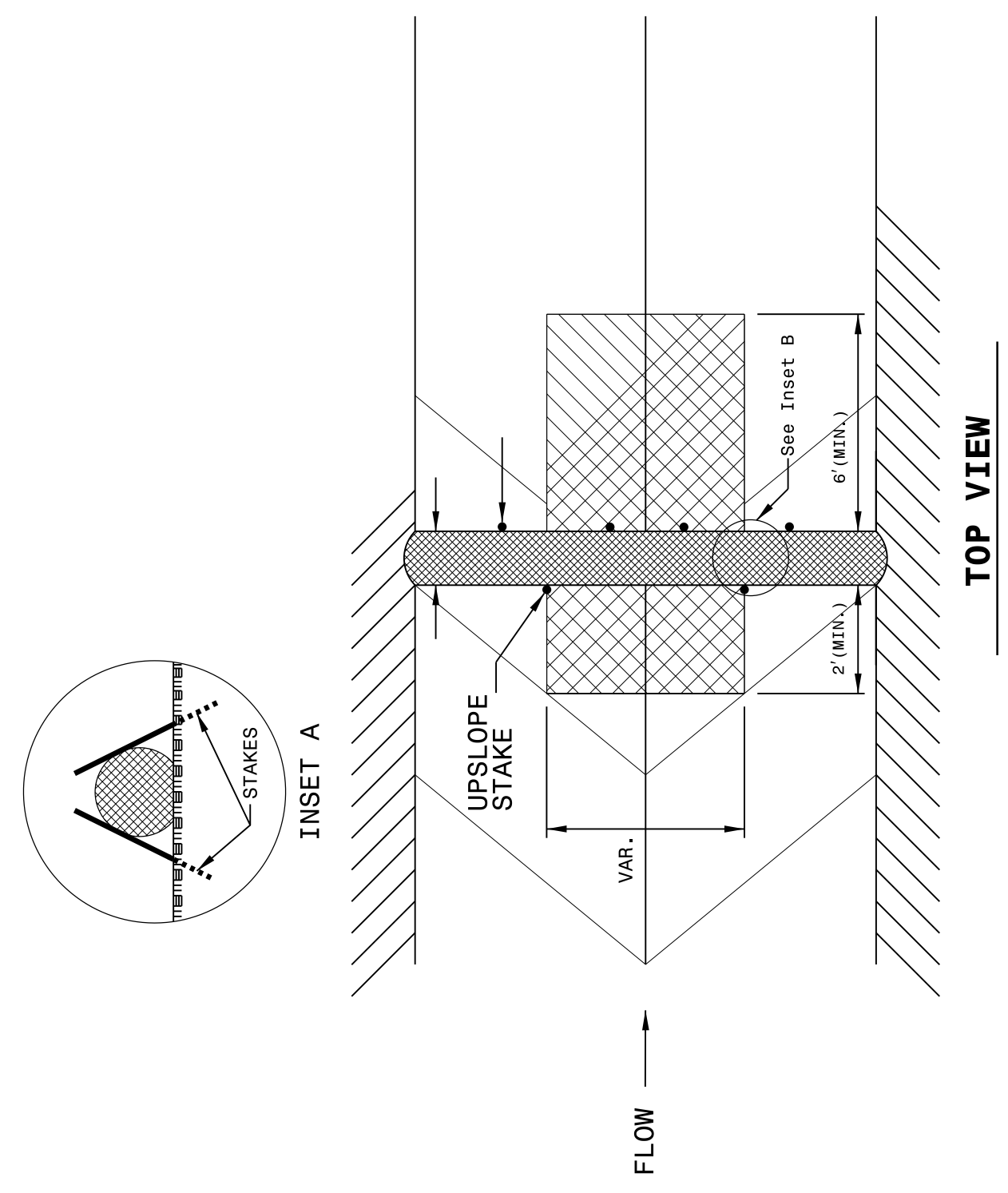
ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



TOP VIEW

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

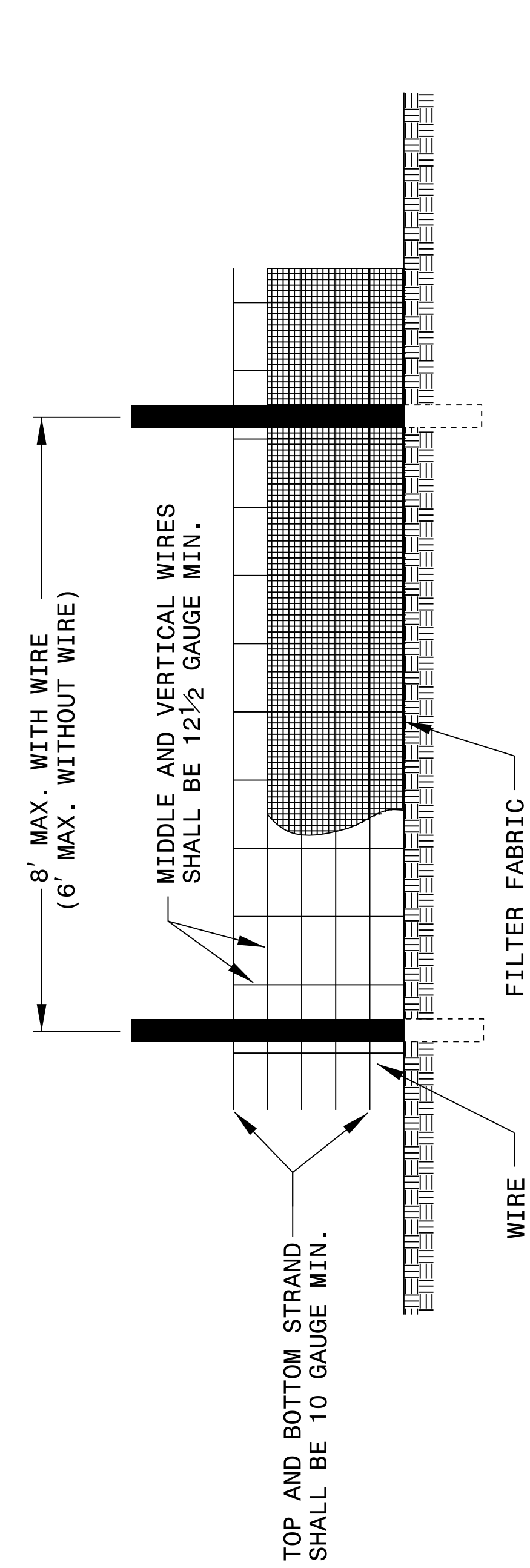
ENGLISH STANDARD DRAWING FOR  
**TEMPORARY SILT FENCE**

SHEET 1 OF 1  
**1605.01**

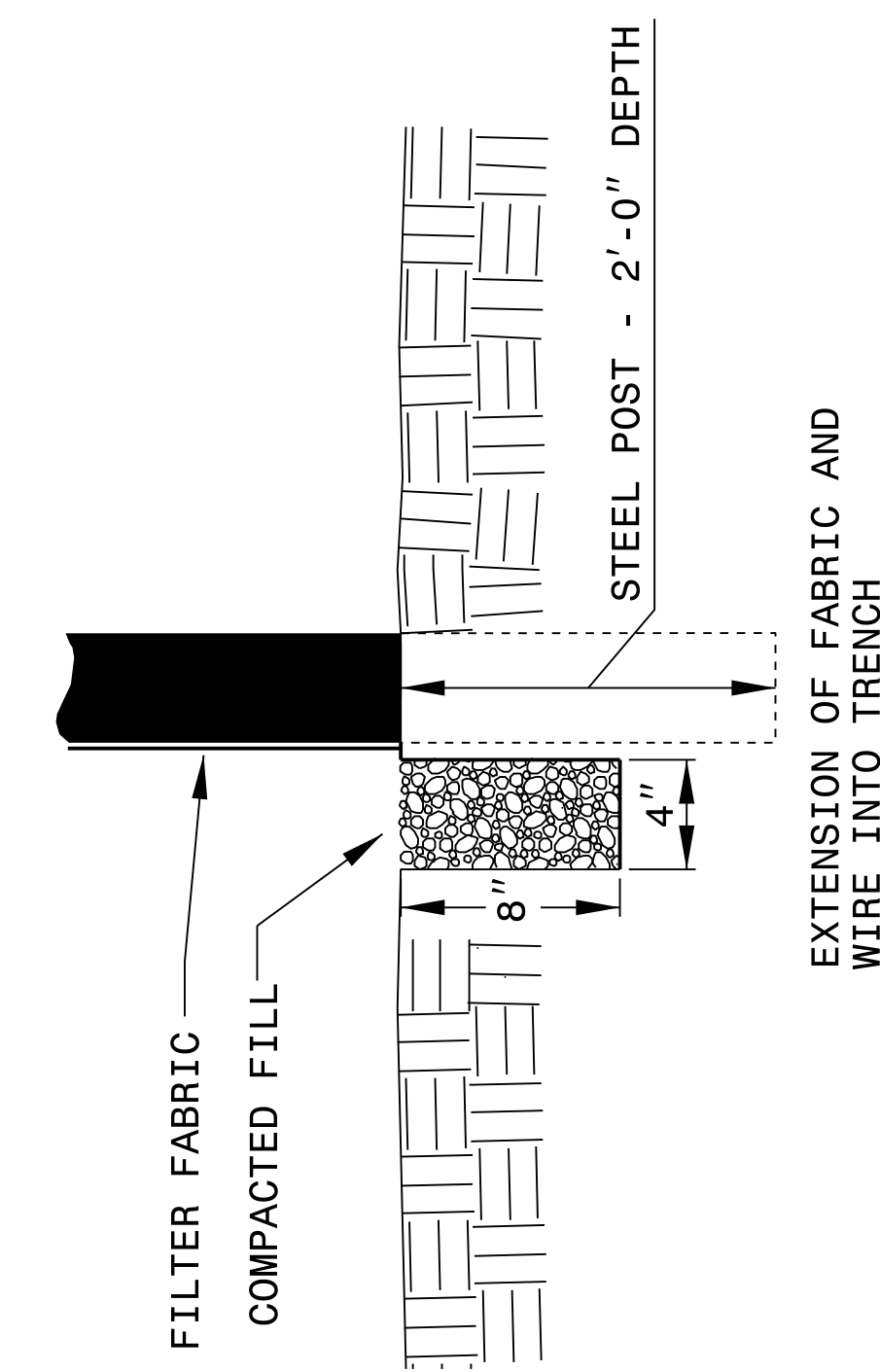
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY SILT FENCE**

SHEET 1 OF 1  
**1605.01**



NOTES  
 USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.  
 USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.  
 PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND WIRE INTO TRENCH

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CROSS-SECTION SUMMARY**  
*IN CUBIC YARDS*

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	STRUCTURE EXCAVATION
<i>12 + 50.00</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>12 + 63.02</i>	<i>6</i>	<i>0</i>	<i>4</i>	<i>0</i>
<i>12 + 85.66</i>	<i>9</i>	<i>0</i>	<i>18</i>	<i>227</i>
<i>13 + 01.45</i>	<i>5</i>	<i>0</i>	<i>45</i>	<i>272</i>
<i>13 + 17.25</i>	<i>5</i>	<i>0</i>	<i>44</i>	<i>274</i>
<i>13 + 39.74</i>	<i>7</i>	<i>0</i>	<i>18</i>	<i>227</i>
<i>13 + 50.00</i>	<i>4</i>	<i>0</i>	<i>4</i>	<i>0</i>

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:  
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION,  
UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION,  
FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF  
EXISTING PAVEMENT. WILL BE PAID FOR AT THE CONTRACT LUMP  
SUM PRICE FOR "GRADING".

REVISIONS

8/17/99

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