

PROJECT NO.	SHEET NO.	TOTAL NO.
DA00435	1	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	MOBILIZATION	GRADING (MAP 1)	ASPHALT PLANT MIX PAVEMENT REPAIR	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY TRAFFIC CONTROL	WORK ZONE ADVANCED/GENERAL WARNING SIGNING	BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	AGGREGATE BASE COURSE	COIR FIBER MAT	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 1)	FLOATING TURBIDITY CURTAIN	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT)
NO		NO			NO	LS	LS	TONS	TONS	SY	LS	SF	CY	TONS	SY	TONS	SY	LS	SY	LF	LF	ACR	EA	CY
1B.201511	Camden	1	SR 1233 Culpepper Rd	REPLACE PIPE CULVERT	1	1	1	48	50	100	1	64	450	280	100	110	150	1	50	100	40	0.10	5	60

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	MOBILIZATION	GRADING (MAP 2)	ASPHALT PLANT MIX PAVEMENT REPAIR	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY TRAFFIC CONTROL	WORK ZONE ADVANCED/GENERAL WARNING SIGNING	BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	AGGREGATE BASE COURSE	COIR FIBER MAT	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 2)	FLOATING TURBIDITY CURTAIN	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT)
NO		NO			NO	LS	LS	TONS	TONS	SY	LS	SF	CY	TONS	SY	TONS	SY	LS	SY	LF	LF	ACR	EA	CY
1B.203711	Gates	2	SR 1318 Middle Swamp Rd	REPLACE PIPE CULVERT	1	1	1	48	50	100	1	64	510	240	100	150	150	1	50	100	40	0.10	5	60

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	MOBILIZATION	GRADING (MAP3)	ASPHALT PLANT MIX PAVEMENT REPAIR	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY TRAFFIC CONTROL	WORK ZONE ADVANCED/GENERAL WARNING SIGNING	BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	AGGREGATE BASE COURSE	COIR FIBER MAT	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 3)	FLOATING TURBIDITY CURTAIN	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT)
NO		NO			NO	LS	LS	TONS	TONS	SY	LS	SF	CY	TONS	SY	TONS	SY	LS	SY	LF	LF	ACR	EA	CY
1B.204611	Hertford	3	SR 1108 Boone Farm Rd	REPLACE PIPE CULVERT	1	1	1	58	50	100	1	64	740	450	210	365	150	1	50	100	40	0.10	5	60

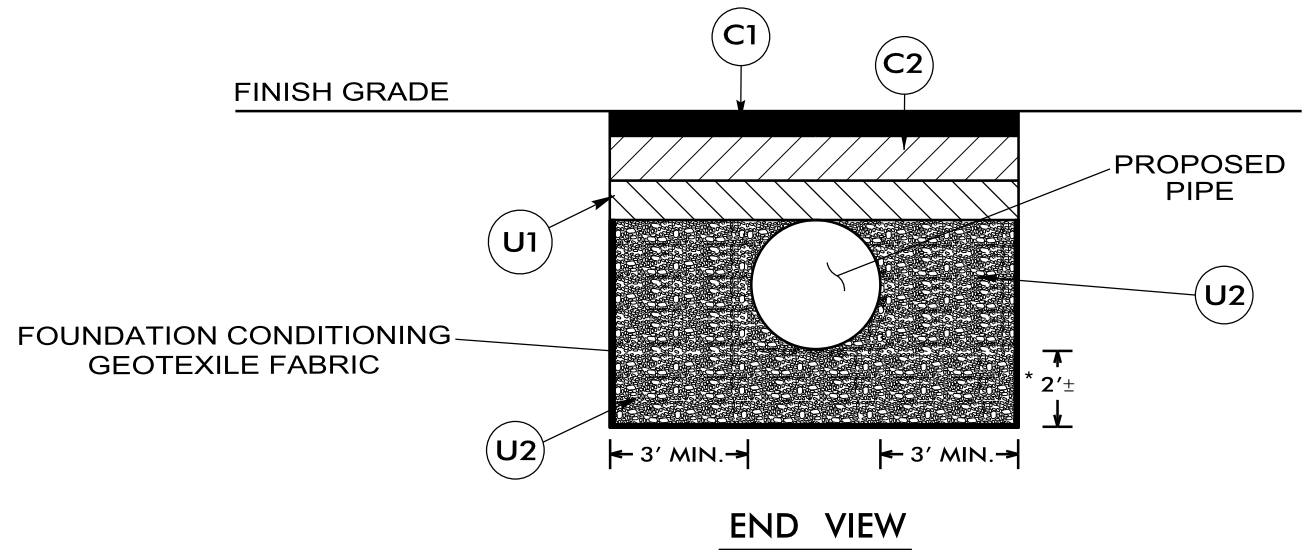
PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	MOBILIZATION	GRADING (MAP4)	ASPHALT PLANT MIX PAVEMENT REPAIR	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY TRAFFIC CONTROL	WORK ZONE ADVANCED/GENERAL WARNING SIGNING	BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	AGGREGATE BASE COURSE	COIR FIBER MAT	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 4)	FLOATING TURBIDITY CURTAIN	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT)
NO		NO			NO	LS	LS	TONS	TONS	SY	LS	SF	CY	TONS	SY	TONS	SY	LS	SY	LF	LF	ACR	EA	CY
1B.206611	Northampton	4	SR 1341 Tower Rd	REPLACE PIPE CULVERT	1	1	1	51	50	100	1	64	700	450	200	143	150	1	50	100	40	0.10	5	60

PROJECT NO	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	MOBILIZATION	GRADING (MAP 5)	ASPHALT PLANT MIX PAVEMENT REPAIR	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY TRAFFIC CONTROL	WORK ZONE ADVANCED/GENERAL WARNING SIGNING	BORROW EXCAVATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	FOUNDATION CONDITIONING GEOTEXTILE	AGGREGATE BASE COURSE	COIR FIBER MAT	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 5)	FLOATING TURBIDITY CURTAIN	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT)
NO		NO			NO	LS	LS	TONS	TONS	SY	LS	SF	CY	TONS	SY	TONS	SY	LS	SY	LF	LF	ACR	EA	CY
1B.209411	Washington	5	SR 1155 Old Cherry Rd	REPLACE PIPE CULVERT	1	1	1	52	50	100	1	64	810	485	200	270	150	1	50	100	40	0.10	5	60

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U1	SUBGRADE MATERIAL (ABC STONE)
U2	#57 STONE
T	EARTH MATERIAL.

PROJECT REFERENCE NO.	SHEET NO.
1B.201511, ETC.	2

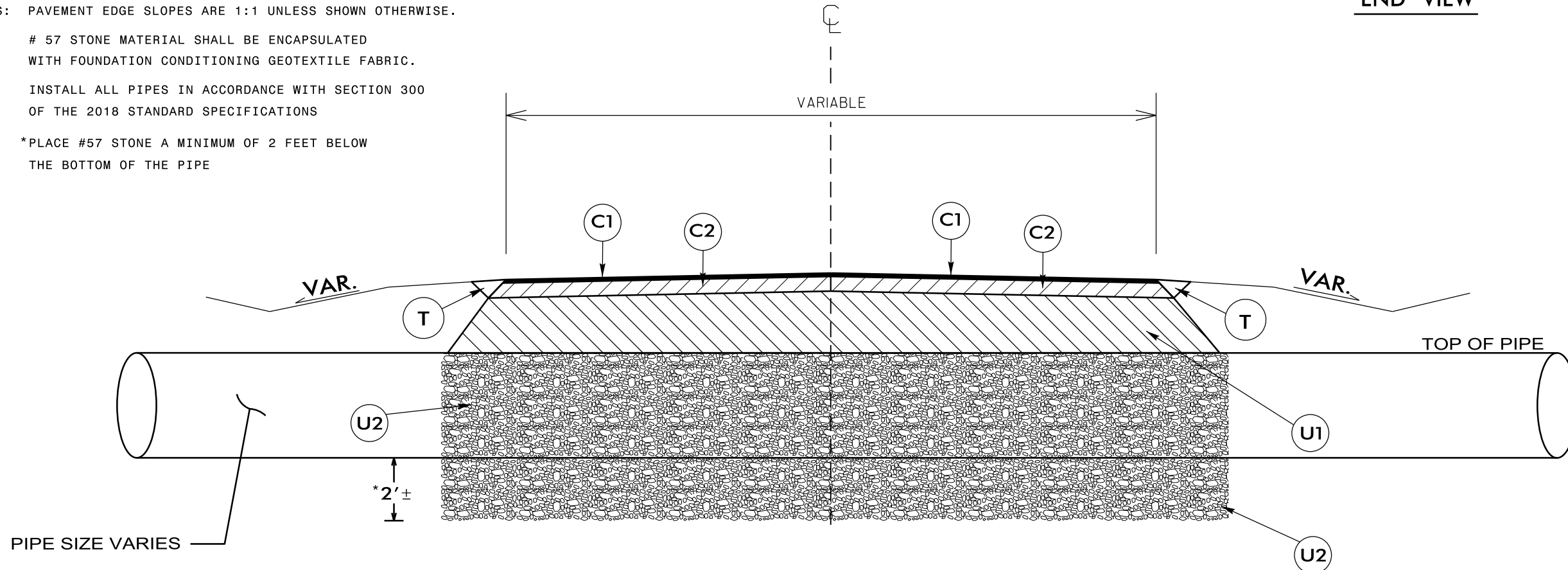


NOTES: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

# 57 STONE MATERIAL SHALL BE ENCAPSULATED WITH FOUNDATION CONDITIONING GEOTEXTILE FABRIC.

INSTALL ALL PIPES IN ACCORDANCE WITH SECTION 300 OF THE 2018 STANDARD SPECIFICATIONS

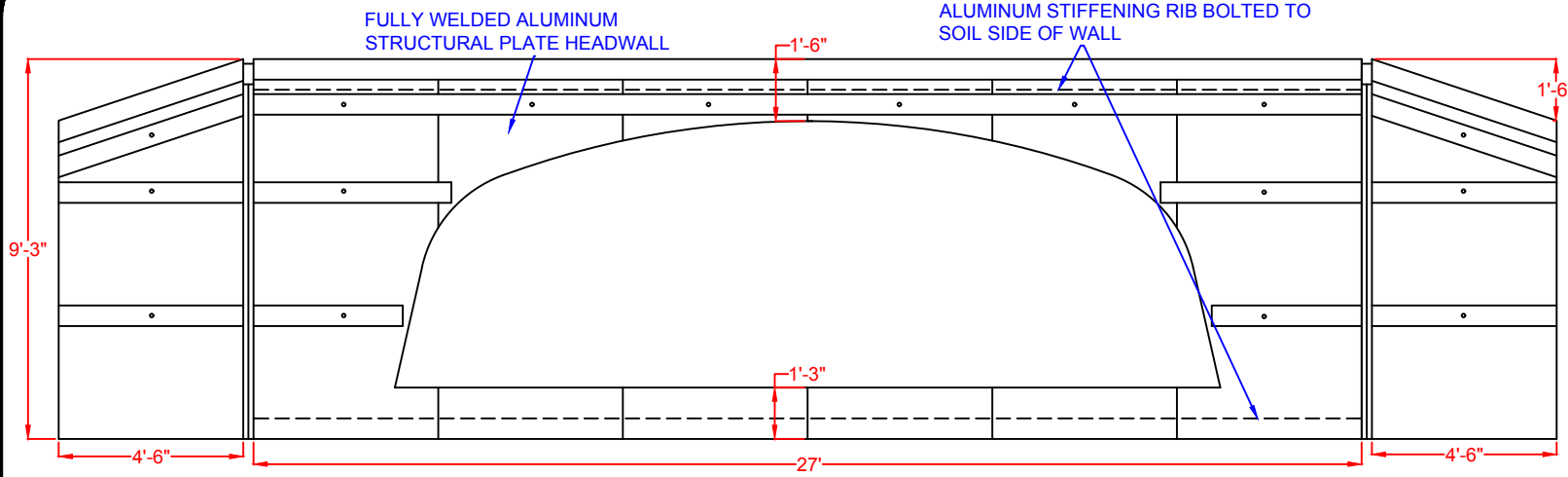
\*PLACE #57 STONE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE PIPE



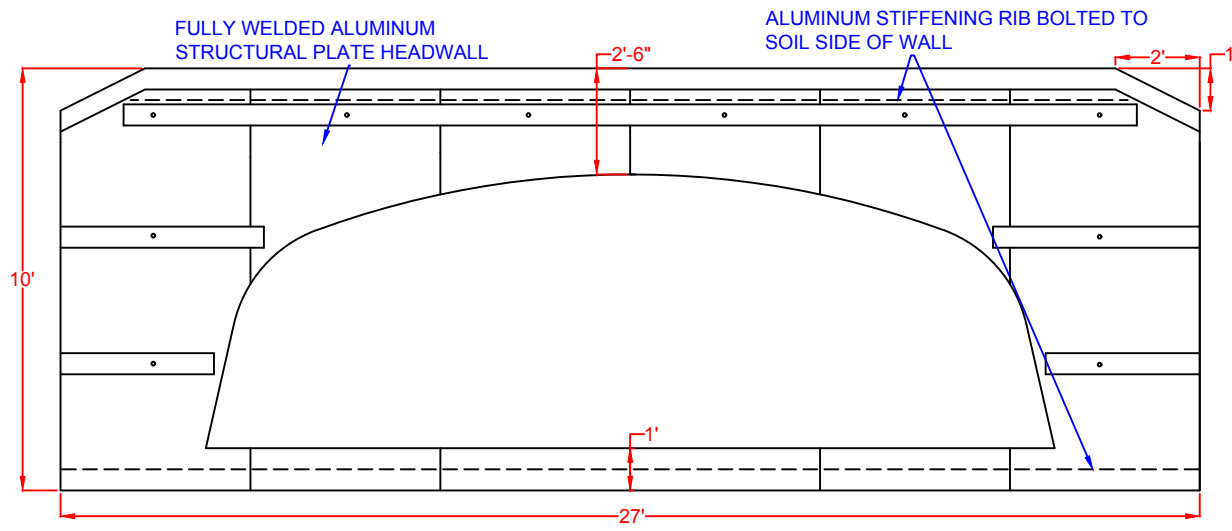
TYPICAL SECTION NO. 1

USE AT PIPE & CULVERT REPLACEMENT LOCATIONS

NTS



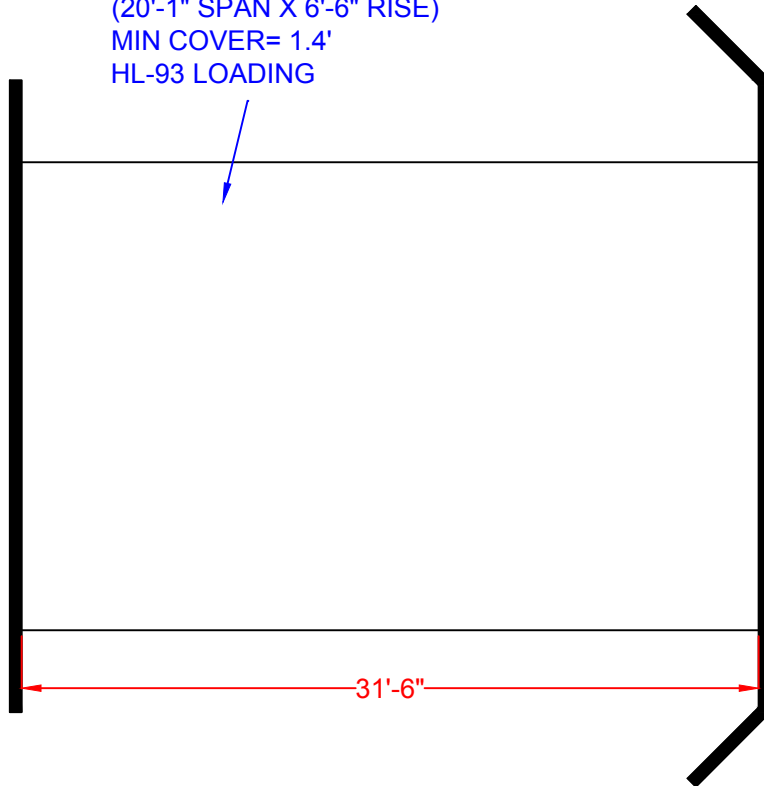
**END VIEW- INLET HEADWALL**



**END VIEW- OUTLET HEADWALL**

DESCRIPTION	
<p>NCDOT CAMDEN CO 200 CULPEPPER RD SOUTH MILLS, NC</p>	
DATE: FEB 28, 2018	SHEET
NOT TO SCALE	

31'-6" OF #50-L2 ALUMINUM BOX  
CULVERT WITH FULL ALUMINUM  
INVERT  
(20'-1" SPAN X 6'-6" RISE)  
MIN COVER= 1.4'  
HL-93 LOADING



**PROPOSED ELEVATIONS:**

EP OUTLET= 100.00  
TOP HW OUT= 98.50  
EP INLET= 98.50  
TOP HW IN= 97.50  
TOP ALBC= 96.00  
INV STREAM= 90.00  
INV ALBC= 89.50

DESCRIPTION

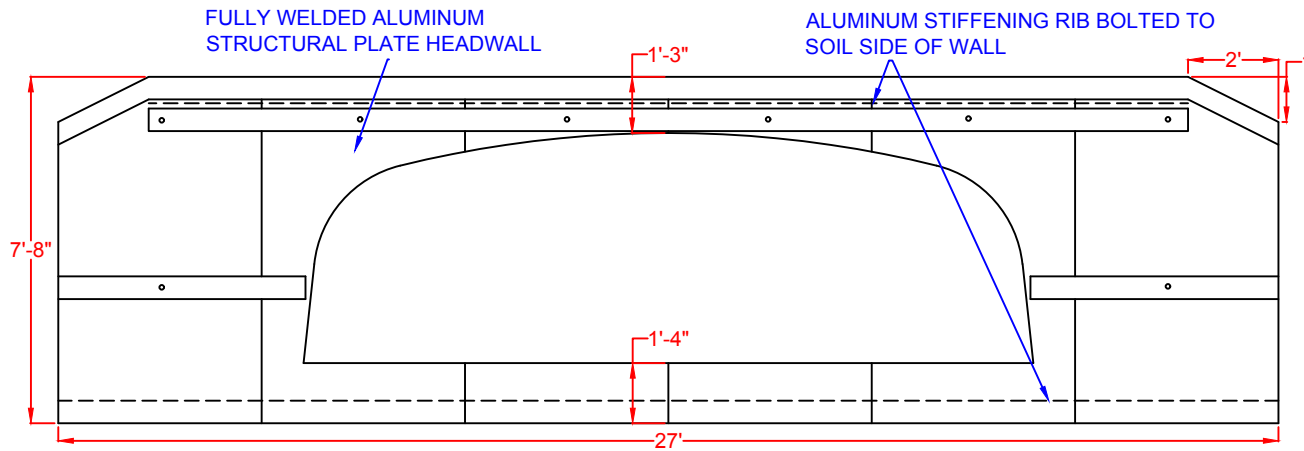
NCDOT CAMDEN CO  
200 CULPEPPER RD  
SOUTH MILLS, NC

FIRM:

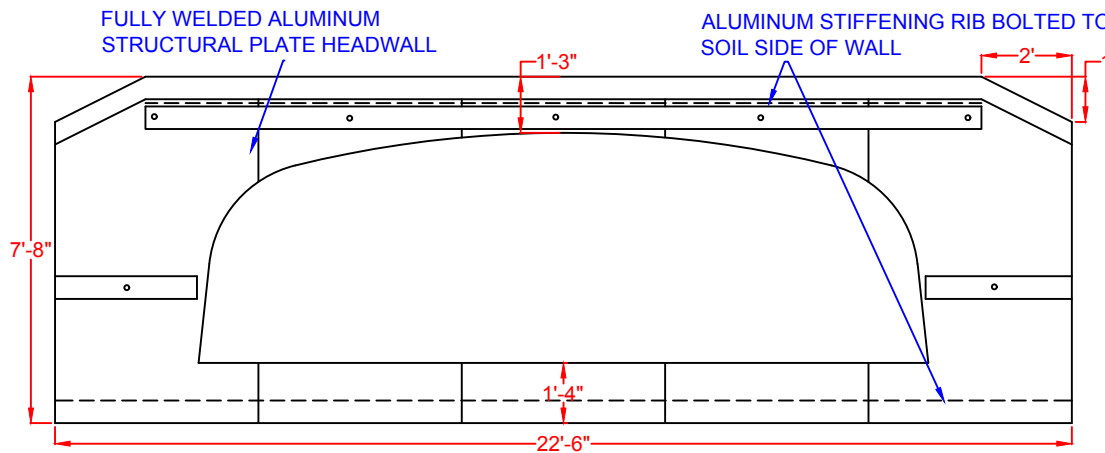
DATE:  
FEB 28, 2018

SHEET

NOT TO SCALE



**END VIEW- INLET HEADWALL**

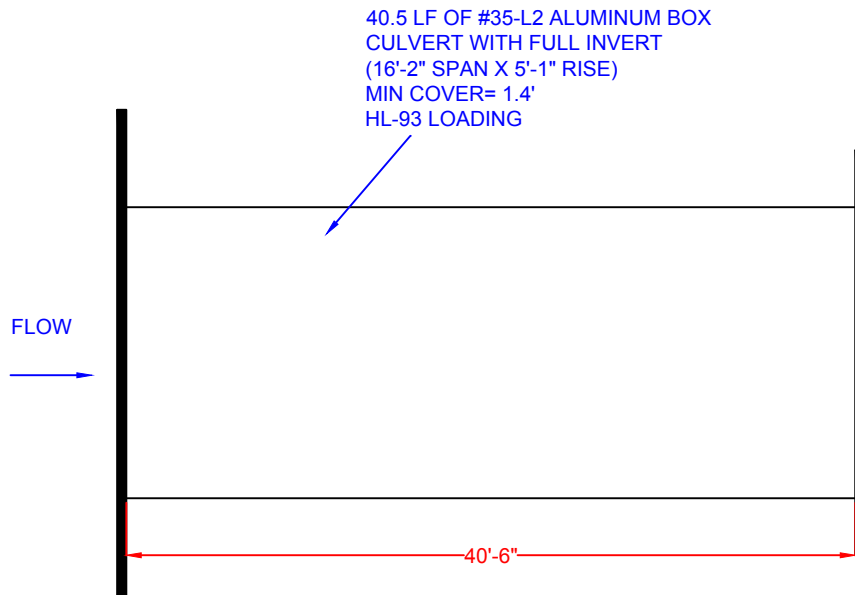


**END VIEW- OUTLET HEADWALL**

DESCRIPTION

NCDOT GATES CO  
1663 MIDDLE SWAMP RD  
CORAPEAKE, NC

DATE: FEB 28, 2018	SHEET
NOT TO SCALE	



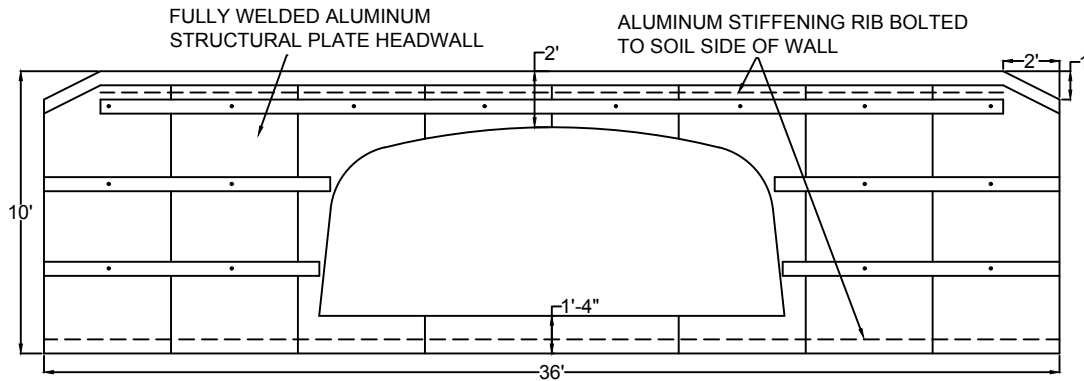
PLAN VIEW

PROPOSED ELEVATIONS:

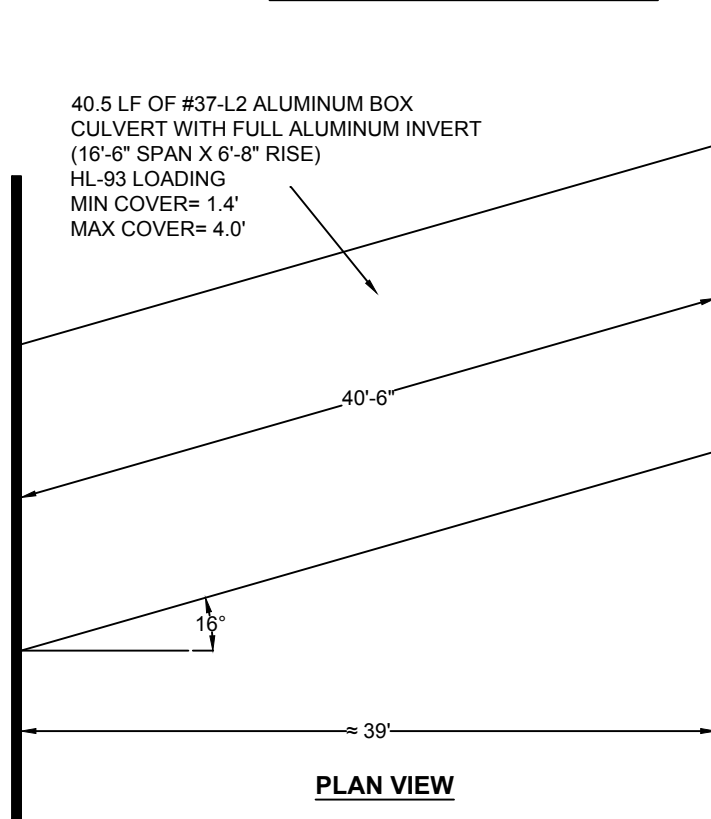
TOP  $\epsilon$  ROAD= 100.00  
 TOP HW= 99.08  
 TOP ALBC= 97.83  
 INV STREAM= 93.75  
 INV ALBC= 92.75

\* NOTE: INCLUDES 1 ROLL TX160 GEOGRID

DESCRIPTION	
NCDOT GATES CO 1663 MIDDLE SWAMP RD CORAPEAKE, NC	
FIRM:	
DATE: FEB 28, 2018	SHEET
NOT TO SCALE	



**END VIEW- INLET & OUTLET HEADWALL**



**PLAN VIEW**

**PROPOSED ELEVATIONS:**

TOP  $\epsilon$  ROAD= 100.00  
 TOP HW= 98.66  
 TOP ALBC= 96.66  
 INV STREAM= 91.00  
 INV ALBC= 90.00

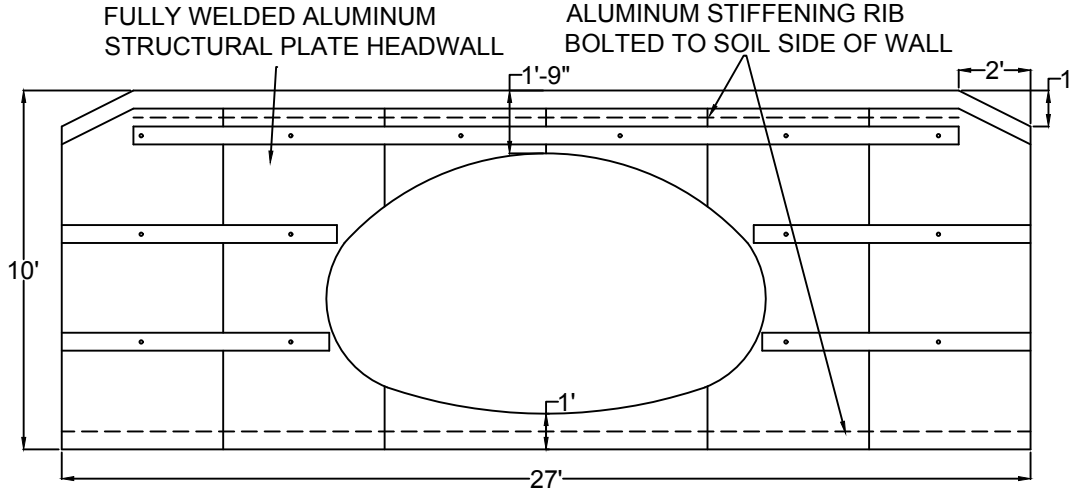
DESCRIPTION

NCDOT- HERTFORD CO  
 BOONE FARM RD

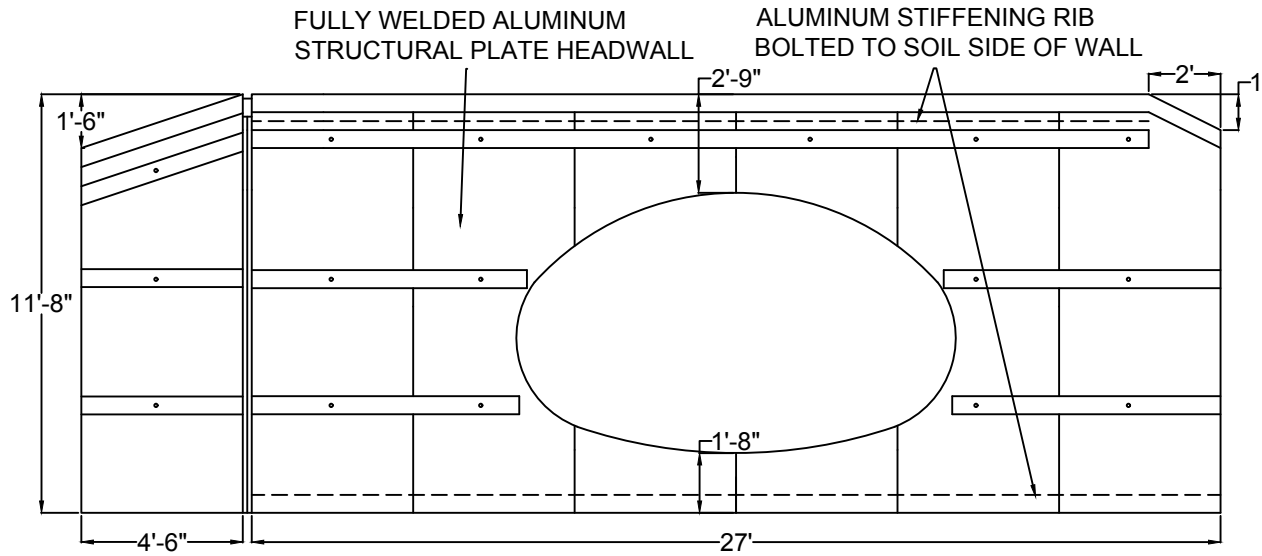
DATE:  
 MAR 15, 2018

SHEET

NOT TO SCALE



**END VIEW- INLET HEADWALL**



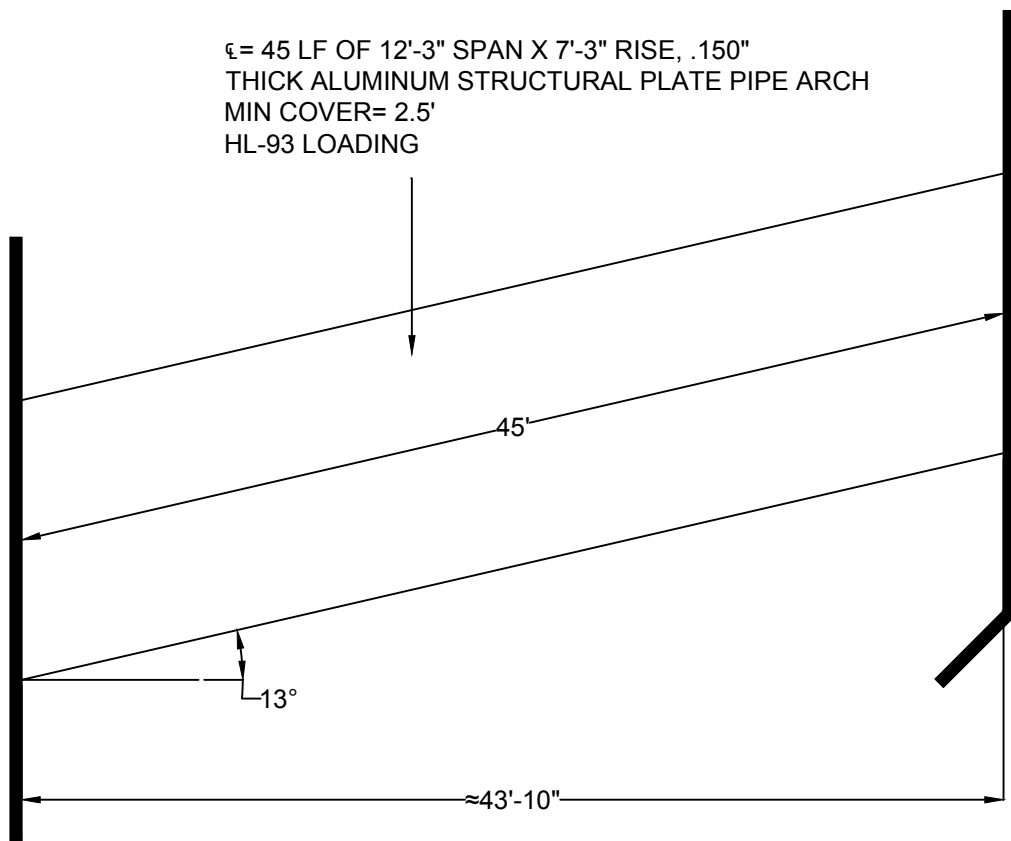
**END VIEW- OUTLET HEADWALL**

DESCRIPTION

NCDOT NORTH HAMPTON CO  
 1615 TOWER RD  
 MARGARETTSVILLE, NC




$\zeta$  = 45 LF OF 12'-3" SPAN X 7'-3" RISE, .150"  
 THICK ALUMINUM STRUCTURAL PLATE PIPE ARCH  
 MIN COVER= 2.5'  
 HL-93 LOADING



PLAN VIEW

**PROPOSED ELEVATIONS:**

EP OUTLET= 100.00  
 EP INLET= 99.00  
 TOP HW OUT= 99.00  
 TOP HW IN= 98.00  
 TOP PIPE= 96.25  
 INV STREAM= 90.00  
 INV PIPE= 89.00

DESCRIPTION

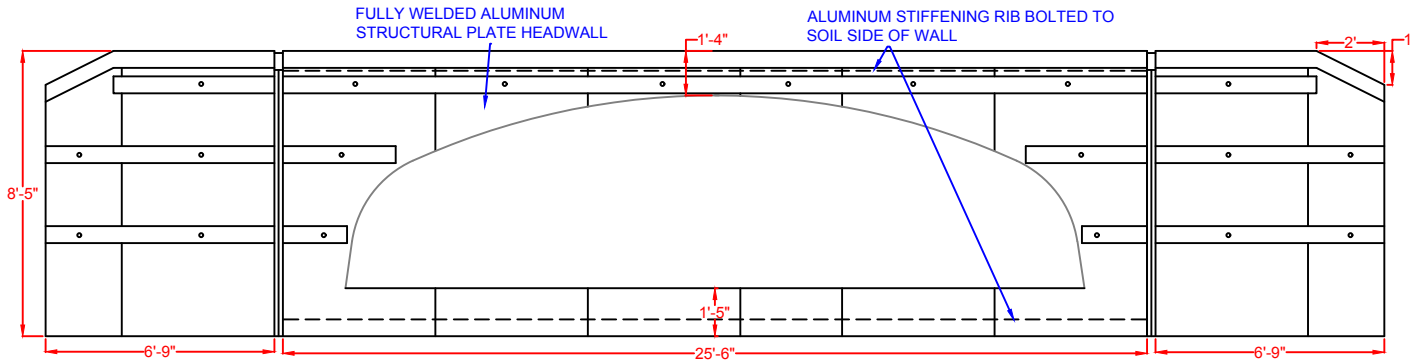
NCDOT NORTH HAMPTON CO  
 1615 TOWER RD  
 MARGARETTSVILLE, NC

FIRM:

DATE:  
MAR 15, 2018

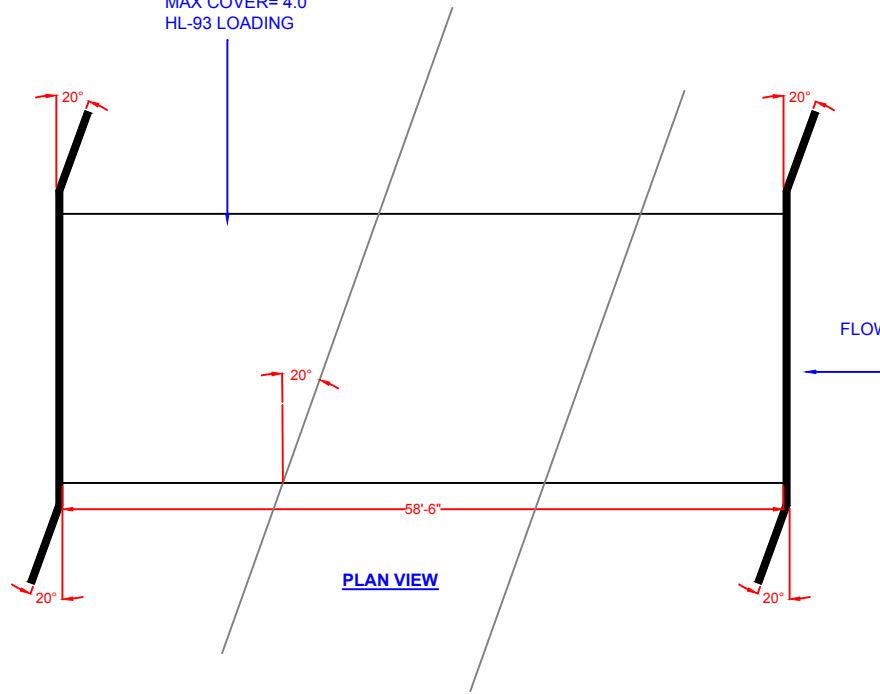
SHEET

NOT TO SCALE



**END VIEW- INLET & OUTLET HEADWALL**

58.5 LF OF #62-L2 ALUMINUM BOX CULVERT WITH  
 FULL ALUMINUM INVERT (21'-10" SPAN X 5'-8" RISE)  
 MIN COVER= 1.4'  
 MAX COVER= 4.0'  
 HL-93 LOADING



**PLAN VIEW**

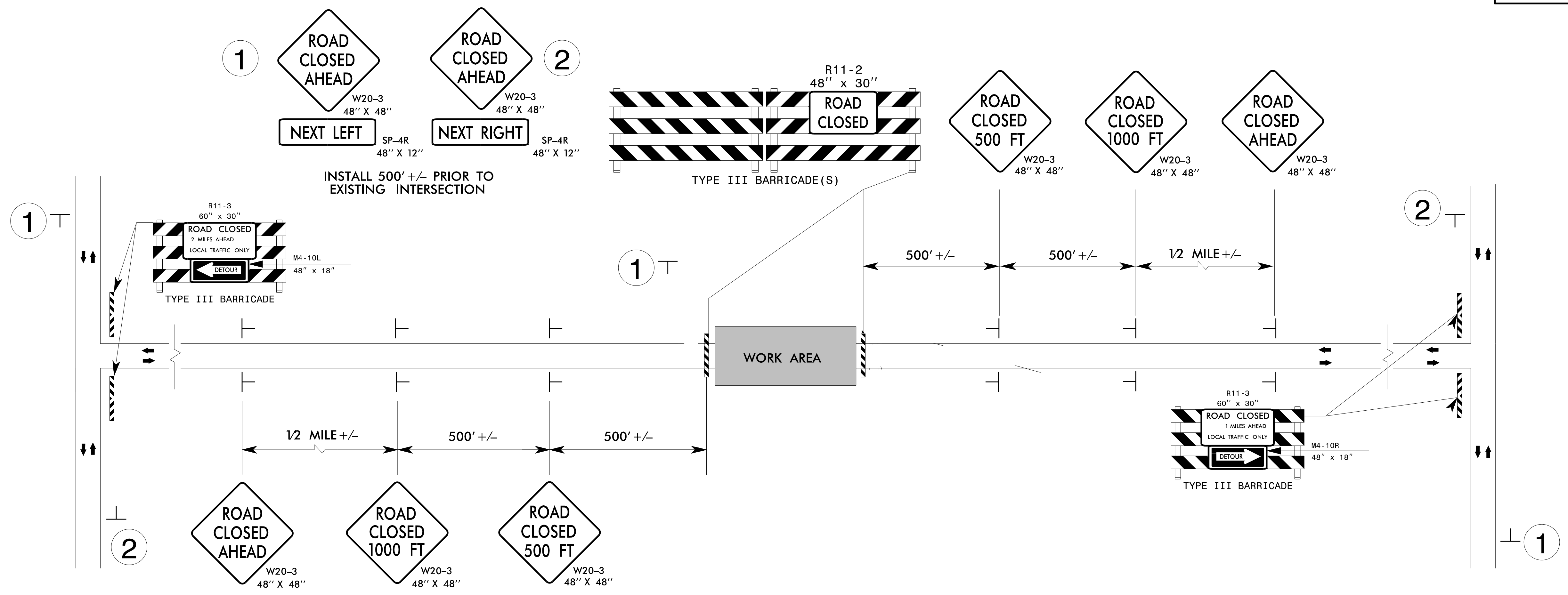
**PROPOSED ELEVATIONS:**

TOP  $\epsilon$  ROAD= 100.00  
 TOP HW= 98.99  
 TOP ALBC= 97.66  
 INV STREAM= 93.00  
 INV ALBC= 92.00

DESCRIPTION

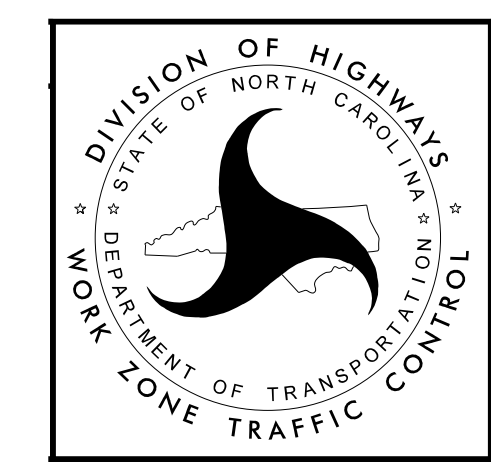
NCDOT- WASHINGTON CO  
 53 CHERRY RD  
 CRESWELL, NC

DATE: FEB 28, 2018	SHEET
NOT TO SCALE	



### GENERAL NOTES

1. INSTALLATION OF TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY OTHERS (STATE OR CITY FORCES) UNLESS OTHERWISE DESIGNATED IN PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
2. INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
3. POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
4. USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
5. SEE RSD 1101.03 SHEET 1 OF 9 FOR TEMPORARY ROAD CLOSURE.







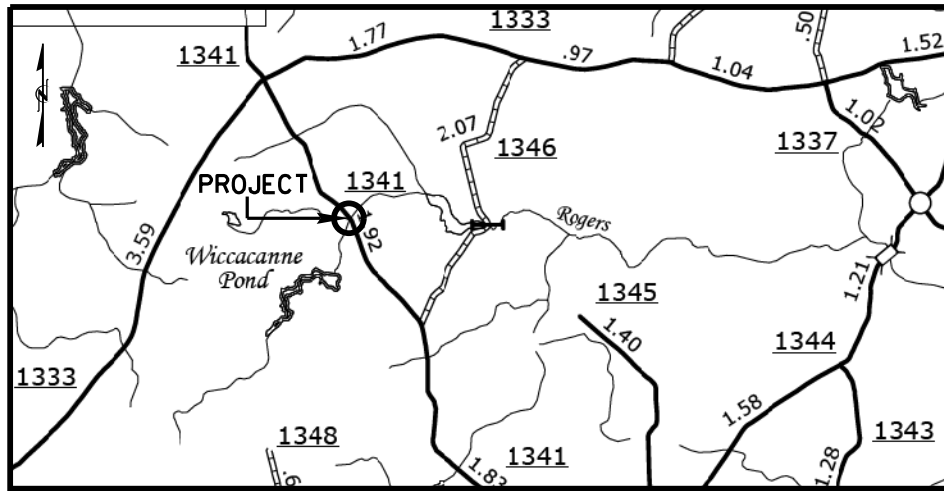




STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL

**NORTHAMPTON COUNTY**

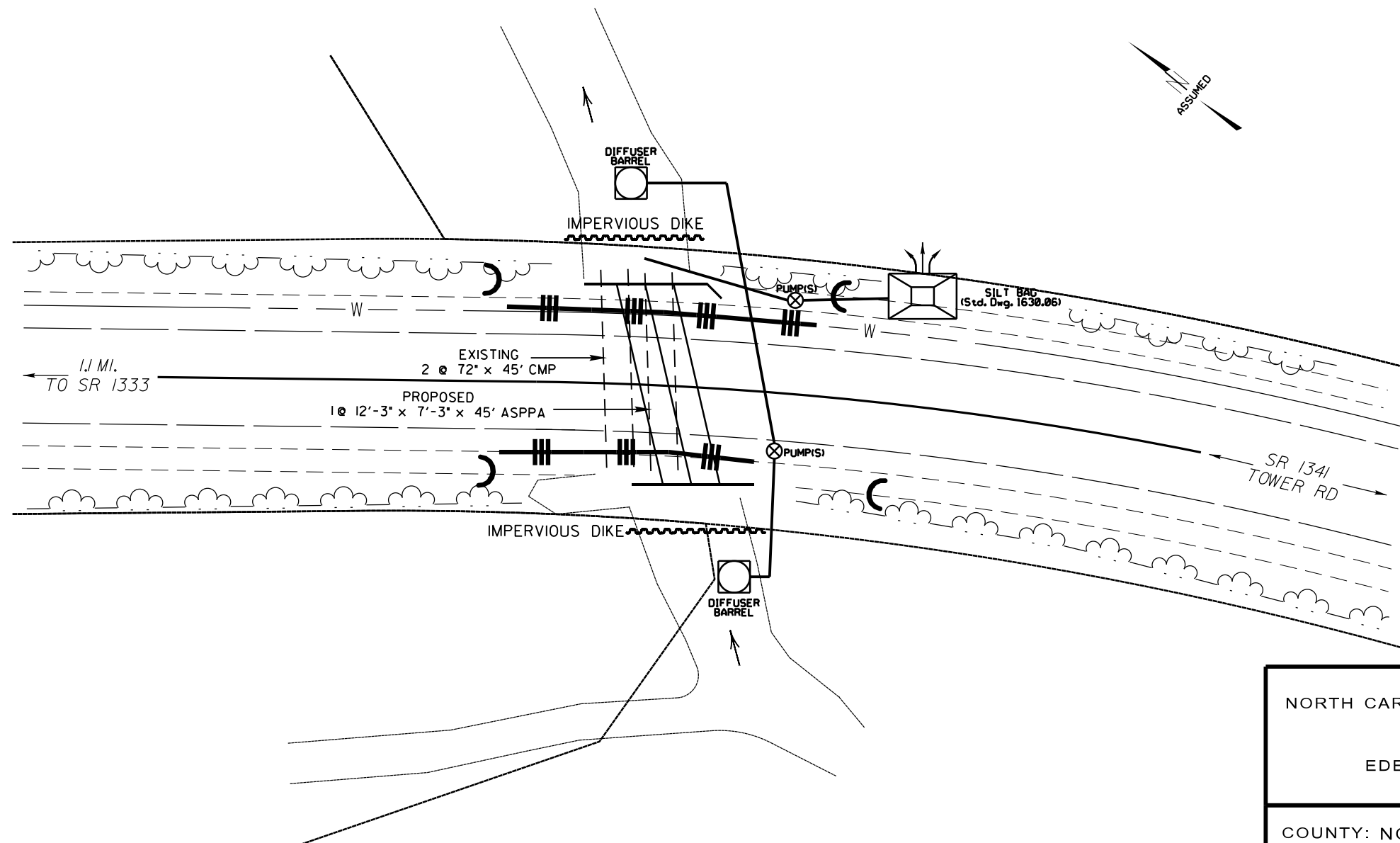
LOCATION: SR 1341 TOWER RD  
 TYPE OF WORK: PIPE REPLACEMENT



**VICINITY MAP**

Pipe Installation Schedule

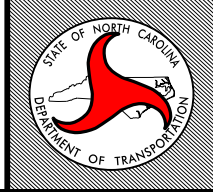
1. Install erosion control devices per plans, including impervious dikes, silt bag, and turbidity curtain (if needed).
2. Remove material and existing pipe while limiting, as much as possible, material and sediment from entering the stream and/or escaping from the project.
3. Prepare pipe foundation while taking care to limit material and sediment from entering the stream and/or escaping from the project. Bury the pipe in accordance with the permit. If needed, bedding material will be clean stone (especially in Trout and HQW waters).
4. Place new pipe and compact fill.
5. Install slope protection on outlet and inlet ends of pipe according to the permit drawing prior to removing the impervious dikes and pumping operation. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
6. Establish permanent vegetation as soon as possible. Matting with nylon mesh cannot be used within 25' of the stream bank.



Description	Symbol
Temporary Silt Fence	
Special Sediment Control Fence	▲▲▲▲▲▲▲▲▲▲
Temporary Berms and Slope Drains	— T —
Silt Basin Type B	▨
Temporary Silt Ditch	— TD —
Temporary Diversion	— TD —
Special Stilling Basin	□
Rock Inlet Sediment Trap Type C	□
Temporary Rock Silt Check Type-A	▨
Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
Temporary Rock Silt Check Type-B	▶
Wattle	⌒
Wattle with Polyacrylamide (PAM)	⌒
Temporary Rock Sediment Dam Type-B	⌒
Rock Pipe Inlet Sediment Trap Type-A	⌒

NOTE: EXACT LOCATION OF THE PUMP(S) AND SILT BAG WILL BE DETERMINED DURING THE ONSITE PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL SPECIALIST.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION 1  
 113 AIRPORT DR.  
 EDENTON, NC 27932 (252) 482-1850

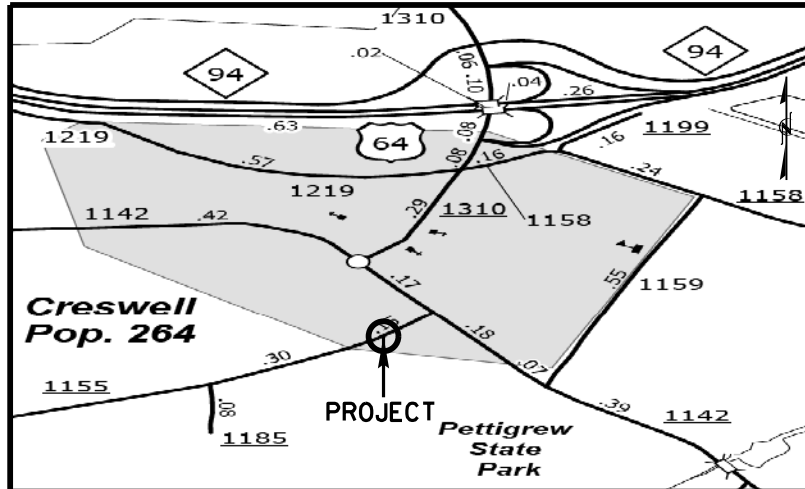


COUNTY: NORTHAMPTON	WBS#: 1B.206611
QUAD: MARGARETTSVILLE	DATE: MARCH 20, 2018
BASIN: CHOWAN	SHEET #: EC1
LAT. = 36.50380 N	LONG. = 77.32352 W
DRAWN BY: J.B. CONNER LEVEL III CERTIFICATION NO. 3773	SCALE: 1" = 30'

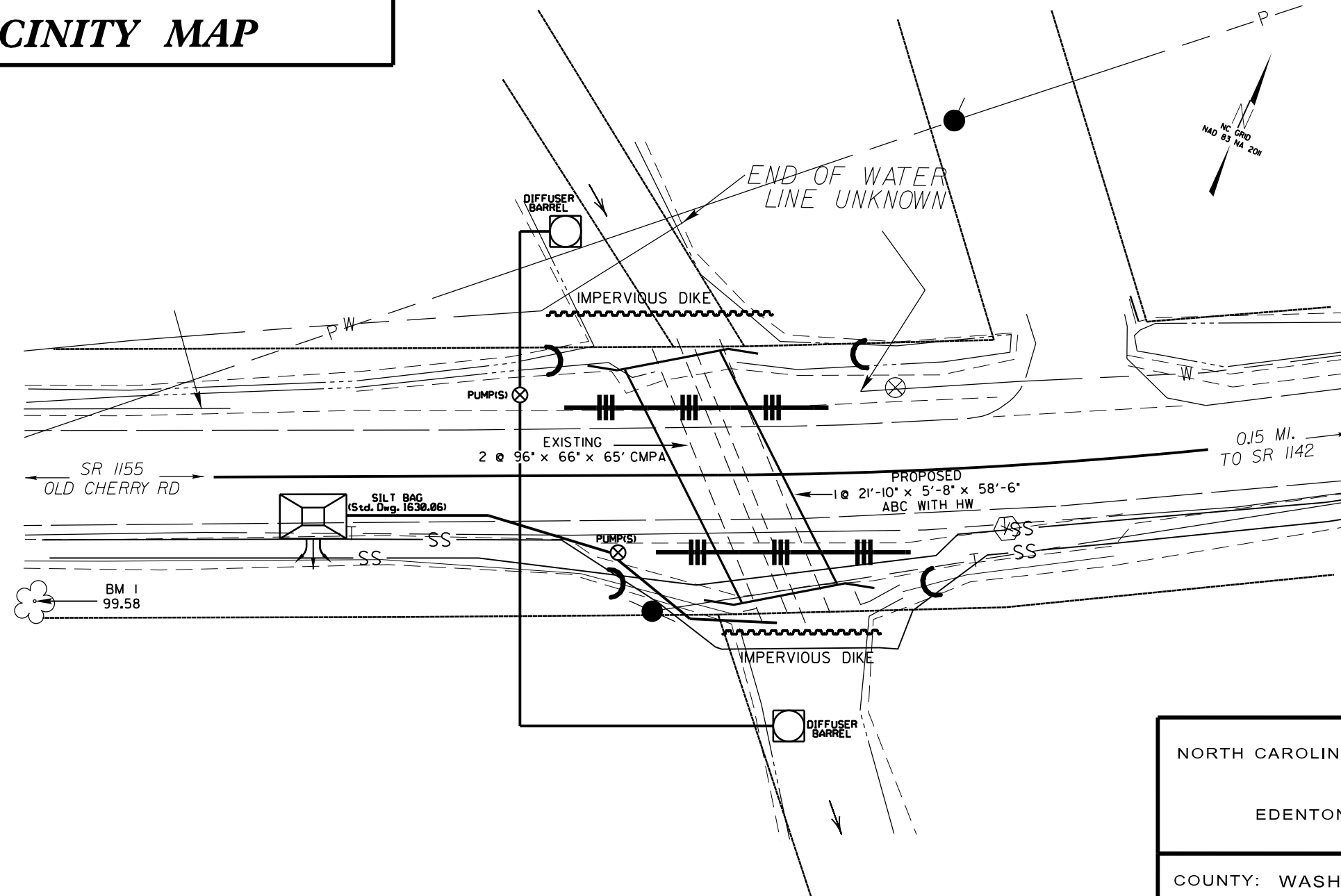
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL

**WASHINGTON COUNTY**

LOCATION: SR 1155 OLD CHERRY RD  
 TYPE OF WORK: PIPE REPLACEMENT



**VICINITY MAP**

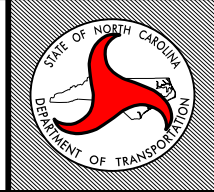


Pipe Installation Schedule

1. Install erosion control devices per plans, including impervious dikes, silt bag, and turbidity curtain (if needed).
2. Remove material and existing pipe while limiting, as much as possible, material and sediment from entering the stream and/or escaping from the project.
3. Prepare pipe foundation while taking care to limit material and sediment from entering the stream and/or escaping from the project. Bury the pipe in accordance with the permit. If needed, bedding material will be clean stone (especially in Trout and HQW waters).
4. Place new pipe and compact fill.
5. Install slope protection on outlet and inlet ends of pipe according to the permit drawing prior to removing the impervious dikes and pumping operation. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.
6. Establish permanent vegetation as soon as possible. Matting with nylon mesh cannot be used within 25' of the stream bank.

Description	Symbol
Temporary Silt Fence	
Special Sediment Control Fence	▲▲▲▲▲▲▲▲
Temporary Berms and Slope Drains	— T —
Silt Basin Type B	▨
Temporary Silt Ditch	— TD —
Temporary Diversion	— TD —
Special Stilling Basin	□
Rock Inlet Sediment Trap Type C	□
Temporary Rock Silt Check Type-A	▨
Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
Temporary Rock Silt Check Type-B	▶
Wattle	⌒
Wattle with Polyacrylamide (PAM)	⌒
Temporary Rock Sediment Dam Type-B	⌒
Rock Pipe Inlet Sediment Trap Type-A	⌒

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 DIVISION 1  
 113 AIRPORT DR.  
 EDENTON, NC 27932 (252) 482-1850



COUNTY: WASHINGTON WBS#: 1B.209411  
 QUAD: CRESWELL DATE: APRIL 2, 2018  
 BASIN: PASQUOTANK SHEET #: EC1

LAT. = 35.8661 N LONG. = 76.3941 W

DRAWN BY: J.B. CONNER  
 LEVEL III CERTIFICATION NO. 3773 SCALE: 1" = 30'

NOTE: EXACT LOCATION OF THE PUMP(S) AND SILT BAG WILL BE DETERMINED DURING THE ONSITE PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL SPECIALIST.