



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

August 1, 2022

Addendum No. 1

Contract No.: DA00555

WBS Element: 46980.3.1

TIP No.: R-5811

Drainage, Widening, Milling & Resurfacing on NC 461 (Farmers Chemical Rd. & River Rd.) & SR 1445 (River Rd.) in Hertford County

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

The following revisions have been made to the proposal and plans:

Page 7, "Intermediate Contract Time Number 2 and Liquidated Damages" has been revised to clarify the work that must be completed on Map #3, prior to initiating the 60 day road closure for NC461. Please replace the original Page 7, "Intermediate Contract Time Number 2 and Liquidated Damages" with the attached revised Page 7, "Intermediate Contract Time Number 2 and Liquidated Damages".

Page 36A, "Shoulder Reconstruction Per Shoulder Mile" has been included to clarify the work required on Map #1 & Map #3. Please insert Page 36A, "Shoulder Reconstruction Per Shoulder Mile", in the original proposal.

Page 36B, "Shoulder Reconstruction Procedure" has been included to clarify the work required on Map #1 & Map #3. Please insert Page 36B, "Shoulder Reconstruction Procedure", in the original proposal.

Page 37, "Borrow Excavation (Truck Measurement)" has been included to clarify payment for the borrow required on Map #3. Please replace the original Page 37, with the attached revised Page 37, "Borrow Excavation (Truck Measurement)".

Page 50, "Aluminum Pipe Culvert" has been revised to clarify the culvert pipe pay items. Please replace the original Page 50, "Aluminum Pipe Culvert" with the attached revised Page 50, "Aluminum Pipe Culvert".

Pages 50 - 51, "General Aluminum Structure Requirements" has been revised to clarify the pay items associated with Aluminum Pipe Culvert Installation. Please replace the original Pages 50 - 51, "General Aluminum Structure Requirements" with the attached revised Pages 50 - 51, "General Aluminum Structure Requirements".

Pages 97 - 100, "Bid Form" have been revised to include the pay items and quantity revisions generated from this addendum. Please replace the original Pages 97 - 100, "Bid Form" with the attached revised Pages 97 - 100, "Bid Form".

Plan Sheet No. 2A-1 "Typical Section #1" has been revised to include "Shoulder Reconstruction". Please replace the original Plan Sheet No. 2A-1 "Typical Section #1" with the attached revised Plan Sheet No. 2A-1 "Typical Section #1".

Plan Sheet No. 2A-3 "Typical Section #3" has been revised to remove "Select Granular Material". Please replace the original Plan Sheet No. 2A-3 "Typical Section #3" with the attached revised Plan Sheet No. 2A-3 "Typical Section #3".

Plan Sheet No. 3 "Summary of Quantities" has been revised to include the pay items and quantity revisions generated from this addendum. Please replace the original Plan Sheet No. 3 "Summary of Quantities" with the attached revised Plan Sheet No. 3 "Summary of Quantities".

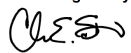
Plan Sheet No. 3B-1 "Summary of Earthwork" has been revised to remove the quantities shown for Map #1 & Map #3. Please replace the original Plan Sheet No. 3B-1 "Summary of Earthwork" with the attached revised Plan Sheet No. 3B-1 "Summary of Earthwork".

Plan Sheet No. XSS-1 "Cross Section Summary" has been revised to show the correct cross sections. Please replace the original Plan Sheet No. XSS-1 "Cross Section Summary" with the attached revised Plan Sheet No. XSS-1 "Cross Section Summary".

Plan Sheet No. XSS-2 "Cross Section Summary" has been revised to show the correct plan sheet number. Please insert Plan Sheet No. XSS-2 "Cross Section Summary", in the original plans.

The amended EBS File (DA00555.001x) has been uploaded. We apologize for any inconvenience.

Sincerely,

DocuSigned by:

CDAEAC77A6394FB...

C. E. Slachta
Division Contract Engineer

Cc: C. W. Bridgers, Jr., PE
R. W. Midgett, PE
R. K. Sawyer, PE
G. A. Byrum, PE
M. R. Hill, PE

INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SP1 G14 H

The Contractor shall have Sixty (60) days under a road closure for NC 461 (Maps 1 & 2) to complete any work desired and shall place and maintain traffic on same.

The Contractor shall complete all work associated with Map 3 (SR 1469, River Rd.) except the application of Thermoplastic Pavement Markings, prior to initiating the Sixty (60) day road closure for NC 461.

The date of availability for this intermediate contract time is 30 minutes after sunrise on the date the Contractor elects to begin the work. **The contractor must notify Traffic Services (NCDOT) and Nucor at least 14 days prior to the road closure.**

The completion date for this intermediate contract time is the date which is Sixty (60) consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages for this contract will be **One Thousand One Hundred Dollars (\$1,100.00)** per calendar day

INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:

(2-20-07)

108

SP1 G14 A

The Contractor shall not perform any work on this project during the following time restrictions:

DAY AND TIME RESTRICTIONS

**MONDAY-FRIDAY FROM THIRTY (30) MINUTES BEFORE SUNSET
TO THIRTY (30) MINUTES AFTER SUNRISE THE FOLLOWING DAY
AND**

**SATURDAY FROM THIRTY (30) MINUTES BEFORE SUNSET
TO THIRTY (30) MINUTES AFTER SUNRISE THE FOLLOWING **MONDAY****

In addition, the Contractor shall not perform any work on this project and/or alter the traffic flow on or during holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's Day**, between the hours of 30 minutes before sunset. December 31st until 30 minutes after sunrise January 2nd. If New Year's Day is on Saturday or Sunday, then until 30 minutes after sunrise the following Tuesday.
3. For Easter, between the hours of 30 minutes before sunset Thursday and 30 minutes after sunrise Monday.

SHOULDER RECONSTRUCTION PER SHOULDER MILE:

(11-16-10) (Rev. 8-21-12)

560

SP1 R07FR

Description

This work consists of reconstructing each shoulder (including median shoulders as applicable) in accordance with Standard Drawing No. 560.01 and 560.02 of the *2018 Roadway Standard Drawings* except that the rate of slope and width will be as shown on typical section, or to the existing shoulder point, whichever is nearer, as long as the desired typical is achieved, and when completed, seeding and mulching. This work shall be performed immediately after the resurfacing operations are complete as directed by the Engineer.

Materials

The Contractor shall furnish all earth material necessary for the construction of the shoulders in accordance with Section 1019 of the *2018 Standard Specifications*. All soil is subject to test and acceptance or rejection by the Engineer.

Construction Methods

Obtain material from within the project limits or approved borrow source. Prior to adding borrow material, the existing shoulder shall be scarified to provide the proper bond and shall be compacted to the satisfaction of the Engineer.

Any excess material generated by the shoulder reconstruction shall be disposed of by the Contractor in an approved disposal site.

Measurement and Payment

Shoulder Reconstruction will be measured and paid as the actual number of miles of shoulders that have been reconstructed. Measurement will be made along the surface of each shoulder to the nearest 0.01 of a mile. Such price will include disposing of any excess material in an approved disposal site, and for all labor, tools, equipment, and incidentals necessary to complete the work.

Borrow Excavation will be paid in accordance with Section 230 of the *2018 Standard Specifications* for earth material furnished by the Contractor. The requirements of Article 104-5 of the *2018 Standard Specifications* pertaining to revised contract prices for overrunning minor items will not apply to the item of *Borrow Excavation*.

Incidental Stone Base will be measured and paid as provided in Article 545-6 of the *2018 Standard Specifications*.

Seeding and Mulching will be measured and paid as shown elsewhere in the contract documents.

Payment will be made under:

Pay Item

Shoulder Reconstruction
Borrow Excavation

Pay Unit

Shoulder Mile
Cubic Yard

SHOULDER RECONSTRUCTION PROCEDURE:

(7-1-95) (Rev. 10-15-13)

560

SP1 R10BR

Perform shoulder reconstruction immediately following paving operations and in no case allow paving operations to exceed shoulder operations by more than two weeks without written permission of the Engineer. Failure to meet this requirement shall be cause to cease paving operations until it can be met. Place final pavement marking after shoulder reconstruction.

Upon completion of shoulder reconstruction, remove construction signs and use on other projects or store at the county maintenance installation or as directed by the Engineer.

BORROW EXCAVATION (Truck Measurement):

(7-1-95)

230

SP2 R57

The borrow material used on this project will be measured for payment by truck measurement as provided in Article 230-5 of the *2018 Standard Specifications*.

CULVERT PIPE:

(8-20-19)(Rev. 5-17-22)

305,310

SP3 R35

Revise the *2018 Standard Specifications* as follows:

Page 3-5, Article 305-1 DESCRIPTION, lines 12-14, replace with the following:

Where shown in the plans, the Contractor may use reinforced concrete pipe, aluminum alloy pipe, aluminized corrugated steel pipe, galvanized corrugated steel pipe, HDPE pipe, Polypropylene pipe or PVC pipe in accordance with the following requirements.

Page 3-5, Article 305-2 MATERIALS, add the following after line 16:

Item	Section
Polypropylene Pipe	1032-9
Galvanized Corrugated Steel Pipe	1032-3

Page 3-6, Article 310-2 MATERIALS, add the following after line 9:

Item	Section
Polypropylene Pipe	1032-9
Galvanized Corrugated Steel Pipe	1032-3

Page 3-6, Article 310-4 SIDE DRAIN PIPE, lines 24-25, replace the first sentence of the second paragraph with the following:

Where shown in the plans, side drain pipe may be Class II reinforced concrete pipe, aluminized corrugated steel pipe, galvanized corrugated steel pipe, corrugated aluminum alloy pipe, Polypropylene pipe, HDPE pipe or PVC pipe.

Page 3-7, Article 310-5 PIPE END SECTIONS, lines 2-4, replace the second sentence with the following:

Both corrugated steel and concrete pipe end sections will work on concrete pipe, corrugated steel pipe, Polypropylene pipe and HDPE smooth lined corrugated plastic pipe.

Page 3-7, Article 310-6 MEASUREMENT AND PAYMENT, add the following after line 14:

Pay Item	Pay Unit
__" Polypropylene Pipe	Linear Foot

ALUMINUM PIPE CULVERT:

Perform the required pipe culvert construction in accordance with this Special Provision.

The work covered by this special provision consists of furnishing all labor, equipment, hardware, and a manufacturer representative on site, to install the aluminum pipe culvert as indicated on the plans and Standard Specifications.

Design of the aluminum culvert shall be the responsibility of the Contractor and shall comply with the latest AASHTO design specifications and requirements.

Payment will be made under:

Pay Item	Pay Unit
Generic Culvert Item (48"x 45' CAAP W/ ENDWALLS, Min. 10 Gauge)	Each
Generic Culvert Item (95"x 67"x 45' CAAP W/ ENDWALLS, Min. 8 Gauge)	Each
Generic Culvert Item (36"x 64' CAAP W/ ENDWALLS, Min. 12 Gauge)	Each
48" CAA Pipe Culverts, 10 gauge, 2 2/3" X 1/2"	LF
42" CAA Pipe Culverts, 12 gauge, 2 2/3" X 1/2"	LF

GENERAL ALUMINUM STRUCTURE REQUIREMENTS:

All materials shall meet the requirements of the *2018 Standard Specifications*.

Pipe material shall be made of aluminum alloy and in dimensions per the standard specifications and hydraulic recommendations.

Poor quality of workmanship of any materials supplied will constitute grounds for the structure being rejected.

Detailed shop drawings and design calculations shall be submitted for acceptance. The supplier shall provide a design that meets the requirements of AASHTO.

Pipe invert elevations shall be 1' below streambed.

All hardware including nuts, bolts, washers, rods, etc. shall be hot dipped galvanized.

A 2' wide band and a continuous 3/8" thick x 2' wide flat gasket made of closed cell neoprene rubber, which upon assembly provides a watertight seal at each joint, will be required where applicable.

- All holes or tears in the pipe must be repaired prior to backfilling

- Pipe bed will be undercut and backfilled with either #5 or #57 stone 1' below pipe invert elevations. Work for pipe bed undercut will be incidental to the pipe installation.
- A. Prepare the pipe foundation in accordance with the applicable method as shown in the contract documents, true to line and grade and uniformly firm. Where the material is found to be of poor supporting, value, or rock and when the Engineer cannot make adjustment in the locations of the pipe, undercut existing foundation material within the limits of the plans. Backfill the undercut with the specified material of either #5 or #57 stone. Encapsulate the #5 or #57 stone with foundation conditioning geotextile before placing bedding material. Overlap all transverse and longitudinal joints in the geotextile at least 18". Foundation conditioning geotextile will be paid for by the contract bid price for *Foundation Conditioning Geotextile*. Maintain the pipe foundation in dry condition.
 - B. Any undercut beyond the 1' specified, that is out of the Contractor's control and directed by the Engineer, will be paid for as *Additional Culvert Undercut* by the CY.
 - C. Backfill material shall be either #5 or #57 stone from 1' below streambed elevation to top of pipe/box culvert. This backfill material will be paid for by the contract bid price for *Foundation Conditioning Material, Minor Structures*.
 - D. Backfill material shall extend a minimum of 3' from the O.D. of the pipe in both directions.
 - E. ABC Stone will be placed from top of pipe/box culvert to top of subgrade. ABC Stone will be paid for at the contract bid price for Aggregate Base Course.
 - a) Pipe sections and bands shall be assembled and alphanumerically/alignment match-marked at the plant site before shipping to verify fit.
 - b) Bands shall be installed onto the pipe sections prior to shipping.
 - c) The contractor and/or manufacturer shall be prepared to cut the aluminum culvert parallel with the roadway on each end of the pipe if necessary to avoid potential conflict with utilities.
 - d) Pipe manufacturer must provide certification of the measured dimensions of the pipe, bands and the continuous flat gaskets. Certification must state that the bands and the gaskets have been pre-fitted and will securely tighten around the supplied pipe. Certification of the dimensions must be signed by the manufacturer's representative and dated.

EXAMPLE: Supplied pipe measures ____ inches in diameter. Supplied bands and the continuous flat gaskets measure ____ inches in length and will securely fasten pipe sections, without field modification.

Signature: _____ Date: _____

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0043000000-N	226	GRADING	Lump Sum	L.S.	
0004	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	69 SY		
0005	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,221 TON		
0006	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	2,352 SY		
0007	0343000000-E	310	15" SIDE DRAIN PIPE	60 LF		
0008	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	48 LF		
0009	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	93 LF		
0010	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK (42", 12 GAUGE, 2-2/3" X 1/2")	46 LF		
0011	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK (48", 10 GAUGE, 2-2/3" X 1/2")	60 LF		
0012	1121000000-E	520	AGGREGATE BASE COURSE	1,757 TON		
0013	1220000000-E	545	INCIDENTAL STONE BASE	35 TON		
0014	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	38,467 SY		
0015	1330000000-E	607	INCIDENTAL MILLING	900 SY		
0016	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	10,623 TON		
0017	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	6,800 TON		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	886 TON		
0019	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	113 TON		
0020	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	6 EA		
0021	2396000000-N	840	FRAME WITH COVER, STD 840.54	6 EA		
0022	3649000000-E	876	RIP RAP, CLASS B	16 TON		
0023	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	30 SY		
0024	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	45 SF		
0025	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	224 SF		
0026	4445000000-E	1145	BARRICADES (TYPE III)	48 LF		
0027	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0028	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	70,356 LF		
0029	4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	8 EA		
0030	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	131,302 LF		
0031	4830000000-E	1205	PAINT PAVEMENT MARKING LINES (16")	170 LF		
0032	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	144 LF		
0033	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	8 EA		
0034	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 55 MILS)	10,090 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES, (16", 90 MILS)	170 LF		
0036	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES, (24", 90 MILS)	144 LF		
0037	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	271 EA		
0038	5546000000-E	1515	8" VALVE	6 EA		
0039	5589200000-E	1515	2" AIR RELEASE VALVE	6 EA		
0040	5709400000-E	1520	8" FORCE MAIN SEWER	555 LF		
0041	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	1,760 LB		
0042	5801000000-E	1530	ABANDON 8" UTILITY PIPE	540 LF		
0043	6000000000-E	1605	TEMPORARY SILT FENCE	1,414 LF		
0044	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	102 TON		
0045	6012000000-E	1610	SEDIMENT CONTROL STONE	102 TON		
0046	6015000000-E	1615	TEMPORARY MULCHING	4 ACR		
0047	6029000000-E	SP	SAFETY FENCE	400 LF		
0048	6037000000-E	SP	COIR FIBER MAT	1,100 SY		
0049	6042000000-E	1632	1/4" HARDWARE CLOTH	205 LF		
0050	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	15 SY		
0051	6071012000-E	SP	COIR FIBER WATTLE	1,050 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	6071020000-E	SP	POLYACRYLAMIDE (PAM)	11 LB		
0053	6084000000-E	1660	SEEDING & MULCHING	4 ACR		
0054	6090000000-E	1661	SEED FOR REPAIR SEEDING	205 LB		
0055	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	1 TON		
0056	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	5 EA		
0057	6133000000-N	SP	GENERIC EROSION CONTROL ITEM DEWATERING STA 201+76, 95" X 67" X45' CAAP W/ENDWALLS	Lump Sum	L.S.	
0058	6133000000-N	SP	GENERIC EROSION CONTROL ITEM DEWATERING STA 215+71, 36" X 64' CAAP W/ENDWALLS	Lump Sum	L.S.	
0059	6133000000-N	SP	GENERIC EROSION CONTROL ITEM DEWATERING STA 76+36, 48" X 45' CAAP W/ENDWALLS	Lump Sum	L.S.	
0060	6133000000-N	SP	GENERIC EROSION CONTROL ITEM DEWATERING STA 91+14, 42" X 46' CAAP	Lump Sum	L.S.	
0061	7301000000-E	1715	DIRECTIONAL DRILL (***** (8"))	372 LF		
0062	8806000000-N	SP	GENERIC CULVERT ITEM 36"X 64' CAAP, 12 GAUGE, 2-2/3" X 1/2" W/ENDWALLS	1 EA		
0063	8806000000-N	SP	GENERIC CULVERT ITEM 48" X 45' CAAP, 10 GAUGE, 3" X 1" W/ENDWALLS	1 EA		
0064	8806000000-N	SP	GENERIC CULVERT ITEM 95" X 67"X 45' CAAP, 8 GAUGE, 3" X 1" W/ENDWALLS	1 EA		
0065	8826000000-E	420	GENERIC CULVERT ITEM ADDITIONAL CULVERT UNDERCUT	179 CY		
0066	0106000000-E	230	BORROW EXCAVATION	100 CY		
0067	1245000000-E	SP	SHOULDER RECONSTRUCTION	3.36 SMI		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0068	6133000000-N	SP	GENERIC EROSION CONTROL ITEM DEWATERING MAP 1, 48" X 60' CAAP	Lump Sum	L.S.	

1102/Jul29/Q284719.36/D280011132000/E68

Total Amount Of Bid For Entire Project :

PAVEMENT SCHEDULE

REVISED 8/1/2022

NOTES:

PROJECT REFERENCE NO.	SHEET NO.
R-5811	2A-1

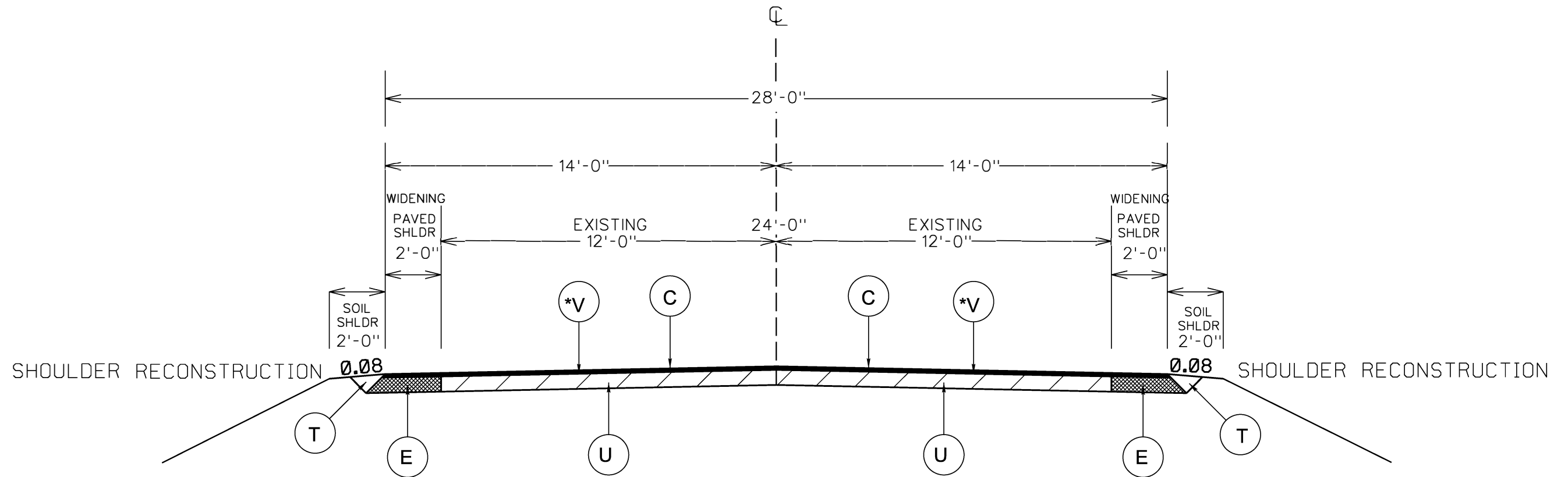
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E	PROP. APPROX. 10" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
*V	MILLING BITUMINOUS PAVEMENT. 1½" DEPTH.

* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.

* EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES

* NCVA RAILROAD MAY BE UPGRADING THEIR CROSSING AND SIGNALS AT THE TIME OF PROJECT CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH THE RAILROAD AND ANY OF THEIR CONTRACTORS.

* MILLING BITUMINOUS PAVEMENT, 1½" DEPTH, OCCURS ON MAP 1 ONLY FROM -E- STA 63+75.56 TO -E- STA 70+75.68 OR THE LAST 700' EXCLUDING THE RAILROAD ROW, OR AS DIIRECTED BY THE ENGINEER.



TYPICAL SECTION NO. 1

USE WITH MAP 1

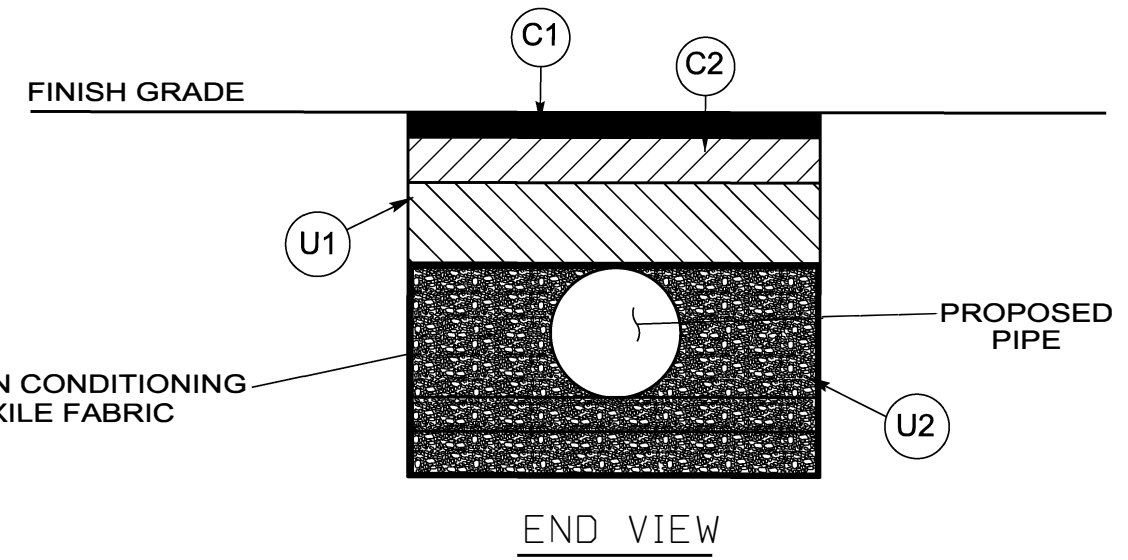
FROM -E- STA 11+08.58 TO -E- STA 70+75.68

PAVEMENT SCHEDULE

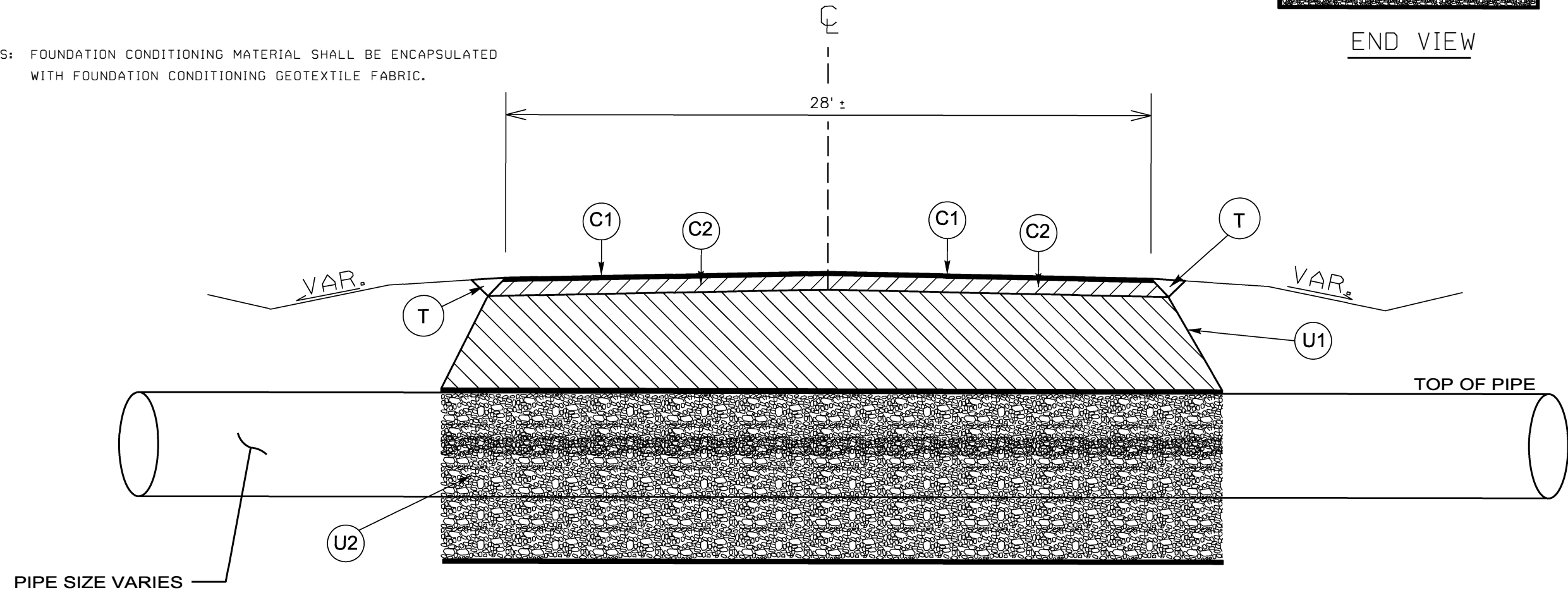
PROJECT REFERENCE NO.	SHEET NO.
R-5811	2A-3

REV: 8/1/2022

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, MINIMUM 10")
U2	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
T	EARTH MATERIAL.



NOTES: FOUNDATION CONDITIONING MATERIAL SHALL BE ENCAPSULATED WITH FOUNDATION CONDITIONING GEOTEXTILE FABRIC.



TYPICAL SECTION NO. 3
USE AT PIPE TRENCHES ONLY

NTS

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	MOBILIZATION	CONSTRUCTION SURVEYING	GRADING	GEOTEXTILE FOR SOIL STABILIZATION	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURE	FOUNDATION CONDITIONING GEOTEXTILE	15" SIDE DRAIN PIPE	18" RC PIPE CULVERTS, CLASS III	24" RC PIPE CULVERTS, CLASS III	48" CAA PIPE CULVERTS, 10 GAUGE, 2 2/3" x 1/2"	42" CAA PIPE CULVERTS, 12 GAUGE, 2 2/3" x 1/2"	AGGREGATE BASE COURSE	INCIDENTAL STONE BASE	MILLING ASPHALT PAVEMENT (1 1/2")	INCIDENTAL MILLING	ASPHALT CONC BASE COURSE, B25.0C	ASPHALT CONC SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	ASPHALT PLANT MIX, PAVEMENT REPAIR	MASONRY DRAINAGE STRUCTURE	FRAME W/COVER, STD 840.54	RIP RAP, CL B	GEOTEXTILE FOR DRAINAGE	8" VALVE	2" AIR RELEASE VALVE	8" FORCE MAIN SEWER	DUCTILE IRON SEWER PIPE FITTINGS	ABANDON 8" UTILITY PIPE		
											MI	FT	LS	LS	LS	SY	TON	SY	LF	LF	LF	LF	LF	TONS	TONS	SY	SY	TONS	TONS	TONS	TON	EA	EA	TON	SY	EA	EA	LF	LB	LF		
46980.3.1	Hertford	1	NC 461 FARMERS CHEMICAL RD.	FROM NC 45 TO SR 1400 (RIVER RD.)	1	2	2WU	NO	NO	YES	1.136	28	1	0.20	1	25	217	442	20			60		486	10	1,867	200	2,020	1,701	193	17			6	10							
46980.3.1	Hertford	2	NC 461 RIVER RD. (SR 1400)	FROM FARMERS CHEMICAL RD. TO END MAINTENANCE	2	2	2WU	NO	NO	YES	2.963	28	*	0.80	*	44	1,004	1,910	40	48	93		46	1,271	20	36,600	200	8,538	4,437	650	96	6	6	10	20	6	6		555	1,760	540	
46980.3.1	Hertford	3	SR 1469 (RIVER RD.)	FROM NC 461 TO SR 1445 (BAZEMORE RD.)	3	2	2WU	NO	NO	NO	0.546	24	*		*										5		500	65	662	43												
GRAND TOTAL FOR PROJ NO. 46980.1.1											4.645		1	1	1	69	1,221	2,352	60	48	93	60	46	1,757	35	38,467	900	10,623	6,800	886	113	6	6	16	30	6	6	555	1,760	540		

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	TEMPORARY SILT FENCE	EROSION CONTROL STONE, CL B	SEDIMENT CONTROL STONE	TEMPORARY MULCHING	SAFETY FENCE	COIR FIBER MATT	1/4" HARDWARE CLOTH	FLOATING TURBIDITY CURTAIN	COIR FIBER WATTLE	POLYACRYLAMIDE (PAM)	SEED & MULCHING	SEED FOR REPAIR SEED	FERTILIZER FOR REPAIR SEED	RESPONSE FOR EROSION CONTROL	GENERIC EROSION CONTROL ITEM (DEWATERING, STA 76+36, 48" X 45' CAAP W/ ENDWALLS)	GENERIC EROSION CONTROL ITEM (DEWATERING, STA 91+14, 42" X 46' CAAP)	GENERIC EROSION CONTROL ITEM (DEWATERING, STA 201+76, 95" X 67" X 45' CAAP W/ ENDWALLS)	GENERIC EROSION CONTROL ITEM (DEWATERING, STA 215+71, 36" X 64' CAAP W/ ENDWALLS)	GENERIC EROSION CONTROL ITEM, DEWATERING MAP 1, 48" X 60' CAAP	DIRECTIONAL DRILL (8")	GENERIC CULVERT ITEM, 36" X 64' CAAP, 12 GAUGE, 2 2/3" X 1/2" W/ ENDWALLS	GENERIC CULVERT ITEM, 48" X 45' CAAP, 10 GAUGE, 3" X 1" W/ ENDWALLS	GENERIC CULVERT ITEM, 60" X 45' CAAP, 8 GAUGE, 3" X 1" W/ ENDWALLS	GENERIC CULVERT ITEM, ADDITIONAL CULVERT UNDERCUT	BORROW EXCAVATION	SHOULDER RECONSTRUCTION							
											MI	FT	LF	TON	TON	ACR	LF	SY	LF	SY	LF	LB	ACR	LB	TON	EA	LS	LS	LS	LS	LS	LF	EA	EA	EA	CY	CY	SMI							
46980.3.1	Hertford	1	NC 461 FARMERS CHEMICAL RD.	FROM NC 45 TO SR 1400 (RIVER RD.)	1	2	2WU	NO	NO	YES	1.136	28	114	28	28	1	100	246	57		120	1	1.1	57	0.3	2																		31	2.27
46980.3.1	Hertford	2	NC 461 RIVER RD. (SR 1400)	FROM FARMERS CHEMICAL RD. TO END MAINTENANCE	2	2	2WU	NO	NO	YES	2.963	28	1,300	74	74	3	300	854	148	15	930	10	2.9	148	0.7	3	1	1	1	1	1	1	372	1	1	1	148								
46980.3.1	Hertford	3	SR 1469 (RIVER RD.)	FROM NC 461 TO SR 1445 (BAZEMORE RD.)	3	2	2WU	NO	NO	NO	0.546	24																															100	1.09	
GRAND TOTAL FOR PROJ NO. 46980.1.1											4.645		1,414	102	102	4	400	1,100	205	15	1,050	11	4	205	1	5	1	1	1	1	1	1	1	372	1	1	1	179	100	3.36					

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	WORK ZONE SIGNS (BARRICADE MOUNTED)	WORK ZONE ADV/GEN WARNING SIGN	BARRICADES (TYPE III)	TEMPORARY TRAFFIC CONTROL	THERMO PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMO PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMO PAVEMENT MARKING CHARACTER (90 MILS), RXR	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (16")	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING CHARACTER (MSG RXR)	GENERIC PAVEMENT MARKING ITEM, LINE 24" 90 MILS (SP)	GENERIC PAVEMENT MARKING ITEM, LINE 16" 90 MILS (SP)	GENERIC PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) WHITE	GENERIC PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) YELLOW	PERMANENT RAISED PAVEMENT MARKERS		
											MI	FT	SF	SF	LF	LS	LF	LF	EA	LF	LF	LF	LF	EA	LF	LF	LFT	LF	EA		
46980.3.1	Hertford	1	NC 461 FARMERS CHEMICAL RD.	FROM NC 45 TO SR 1400 (RIVER RD.)	1	2	2WU	NO	NO	YES	1.136	28				1	12,000	7,500	4	12,000	7,500	80	72	4	72	80					75
46980.3.1	Hertford	2	NC 461 RIVER RD. (SR 1400)	FROM FARMERS CHEMICAL RD. TO END MAINTENANCE	2	2	2WU	NO	NO	YES	2.963	28	45	224	48.00	*	31,300	19,556		62,600	39,112									196	
46980.3.1	Hertford	3	SR 1469 (RIVER RD.)	FROM NC 461 TO SR 1445 (BAZEMORE RD.)	3	2	2WU	NO	NO	NO	0.546	24				*			4	5,766	4,324	90	72	4	72	90	5,766	4,324			
GRAND TOTAL FOR PROJ NO. 46980.1.1											4.645		45	224	48	1	43,300	27,056	8	80,366	50,936	170	144	8	144	170	5,766	4,324	271		
																	70,356			131,302						10,090					

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS**

PROJ. REFERENCE NO.	SHEET NO.
R-5811	XSS-1

REV: 8/1/2022

NOTE: EMBANKMENT COLUMN INCLUDES BACKFILL FOR UNDERCUT

CROSS-SECTION SUMMARY

Station	Uncl. Exc.	Embt			Station	Uncl. Exc.	Embt			Station	Uncl. Exc.	Embt			Station	Uncl. Exc.	Embt
L	(cu. yd.)	(cu. yd.)			L	(cu. yd.)	(cu. yd.)			L	(cu. yd.)	(cu. yd.)			L	(cu. yd.)	(cu. yd.)
71+00.00	0	0			98+50.00	19	5			124+50.00	19	4			150+50.00	20	4
71+50.00	23	1			99+00.00	19	4			125+00.00	19	5			151+00.00	20	4
72+50.00	43	4			99+50.00	19	2			125+50.00	18	6			151+50.00	20	4
73+00.00	22	1			100+00.00	19	2			126+00.00	18	6			152+00.00	20	4
73+50.00	23	1			100+50.00	19	4			126+50.00	19	6			152+50.00	20	4
74+00.00	21	2			101+00.00	20	6			127+00.00	18	6			153+00.00	19	4
75+00.00	37	11			101+50.00	20	6			127+50.00	17	6			153+50.00	20	3
75+50.00	17	11			102+00.00	21	4			128+00.00	17	6			154+00.00	22	2
76+50.00	31	43			102+50.00	23	2			128+50.00	17	6			154+50.00	20	3
77+00.00	16	19			103+00.00	23	2			129+00.00	18	6			155+00.00	18	5
77+50.00	18	7			103+50.00	21	3			129+50.00	19	6			155+50.00	17	6
78+00.00	19	4			104+00.00	19	4			130+00.00	19	6			156+00.00	17	6
78+50.00	21	2			104+50.00	19	4			130+50.00	19	5			156+50.00	17	6
79+00.00	20	4			105+00.00	19	4			131+00.00	21	4			157+00.00	17	6
79+50.00	19	6			105+50.00	19	4			131+50.00	22	3			157+50.00	18	6
80+00.00	19	6			106+00.00	21	4			132+00.00	22	3			158+00.00	19	6
80+50.00	19	6			106+50.00	24	3			132+50.00	22	4			158+50.00	19	6
81+00.00	19	6			107+00.00	23	3			133+00.00	22	4			159+00.00	19	6
81+50.00	19	6			107+50.00	19	4			133+50.00	21	5			159+50.00	19	6
82+00.00	19	6			108+00.00	20	3			134+00.00	20	6			160+00.00	19	6
82+50.00	18	6			108+50.00	21	3			134+50.00	21	5			160+50.00	19	6
83+00.00	17	6			109+00.00	20	4			135+00.00	22	4			161+00.00	19	6
83+50.00	17	7			109+50.00	20	4			135+50.00	21	4			161+50.00	19	6
84+00.00	18	6			110+00.00	20	4			136+00.00	20	5			162+00.00	18	6
84+50.00	19	6			110+50.00	20	4			136+50.00	20	6			162+50.00	17	6
85+00.00	19	6			111+00.00	20	4			137+00.00	19	5			163+00.00	17	7
85+50.00	19	6			111+50.00	20	4			137+50.00	19	4			163+50.00	18	6
86+00.00	19	5			112+00.00	19	4			138+00.00	20	4			164+00.00	19	6
86+50.00	22	4			112+50.00	19	4			138+50.00	20	4			164+50.00	20	6
87+00.00	22	4			113+00.00	19	5			139+00.00	20	4			165+00.00	20	6
87+50.00	20	5			113+50.00	19	6			139+50.00	20	4			165+50.00	19	6
88+00.00	19	6			114+00.00	18	6			140+00.00	20	4			166+00.00	19	6
88+50.00	19	5			114+50.00	17	4			140+50.00	20	4			166+50.00	18	6
89+00.00	20	4			115+00.00	16	4			141+00.00	20	4			167+00.00	16	6
89+50.00	19	5			115+50.00	15	6			141+50.00	20	4			167+50.00	16	6
90+00.00	20	5			116+00.00	15	7			142+00.00	21	4			168+00.00	18	6
90+50.00	22	5			116+50.00	16	6			142+50.00	21	4			168+50.00	19	5
91+00.00	20	7			117+00.00	18	6			143+00.00	20	4			169+00.00	19	4
91+50.00	19	11			117+50.00	19	5			143+50.00	20	3			169+50.00	20	4
92+00.00	17	15			118+00.00	19	4			144+00.00	20	2			170+00.00	20	5
92+50.00	16	13			118+50.00	19	4			144+50.00	21	2			170+50.00	19	6
93+00.00	18	6			119+00.00	19	4			145+00.00	21	2			171+00.00	19	6
93+50.00	19	6			119+50.00	19	5			145+50.00	19	3			171+50.00	19	6
94+00.00	19	6			120+00.00	19	6			146+00.00	19	4			172+00.00	20	5
94+50.00	19	6			120+50.00	19	6			146+50.00	19	4			172+50.00	20	4
95+00.00	19	6			121+00.00	19	6			147+00.00	19	3			173+00.00	20	4
95+50.00	19	5			121+50.00	19	6			147+50.00	20	3			173+50.00	20	4
96+00.00	18	6			122+00.00	19	6			148+00.00	20	4			174+00.00	20	5
96+50.00	17	7			122+50.00	19	5			148+50.00	20	4			174+50.00	19	6
97+00.00	17	6			123+00.00	19	4			149+00.00	20	4			175+00.00	17	13
97+50.00	17	5			123+50.00	19	4			149+50.00	20	4			175+50.00	18	12
98+00.00	19	4			124+00.00	19	4			150+00.00	20	4			176+00.00	20	4

