



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

October 13, 2021

Addendum No. 1

RE: Contract # C204182

WBS # 41162.3.1

FA# STP-1217(6)

Dare County (R-5014)

SR 1217 (COLINGTON RD) FROM DEAD END TO US-158 (CROATAN HWY) IN
KILL DEVIL HILLS.

October 19, 2021 Letting

To Whom It May Concern:

Reference is made to the plans furnished to you on this project.

The following revisions have been made to the Roadway plans.

Sheet No.	Revision
UC-3E	Removed notes 4, 5, 7, 8 from the "Thrust Collar and Thrust Block Notes".

Please void the above listed Sheets in your plans and staple the revised Sheets thereto.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

Ronald E. Davenport, Jr.

FB1B6038A47A442...

Ronald E. Davenport, Jr., PE

State Contract Officer

RED/cms

Attachments

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

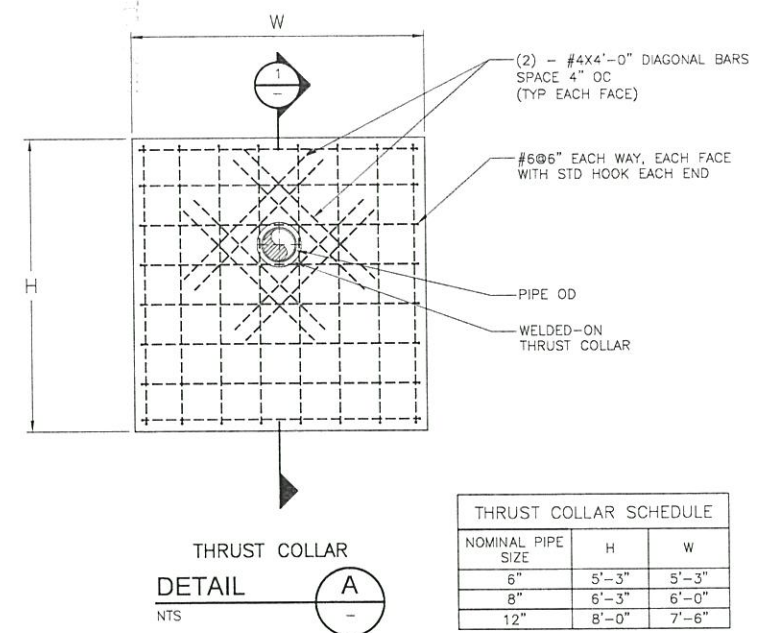
Website: www.ncdot.gov

C204182 (R-5014)

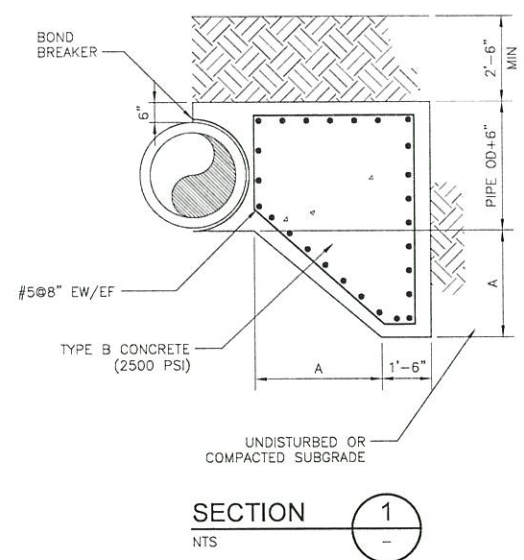
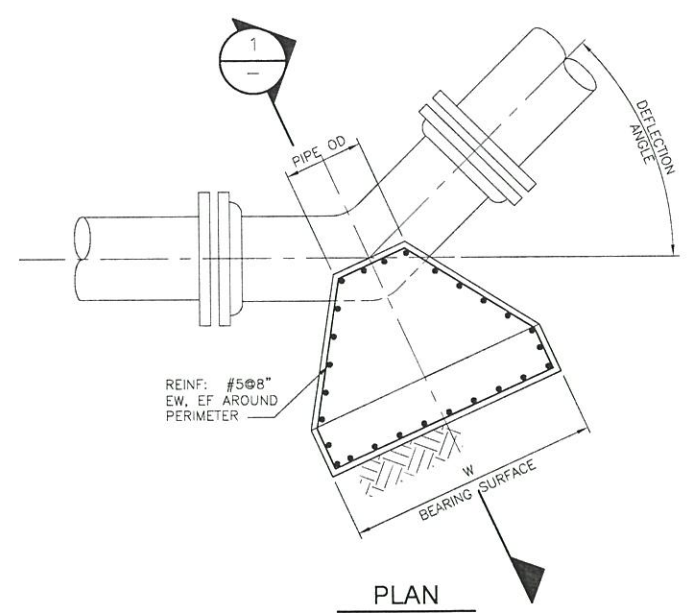
Dare County

cc: Mr. Lamar Sylvester, PE
Mr. Sterling Baker, PE
Ms. Lori Strickland
Mr. Boyd Tharrington, PE
Mr. Jon Weathersbee, PE
Mr. Ken Kennedy, PE
Project File (2)

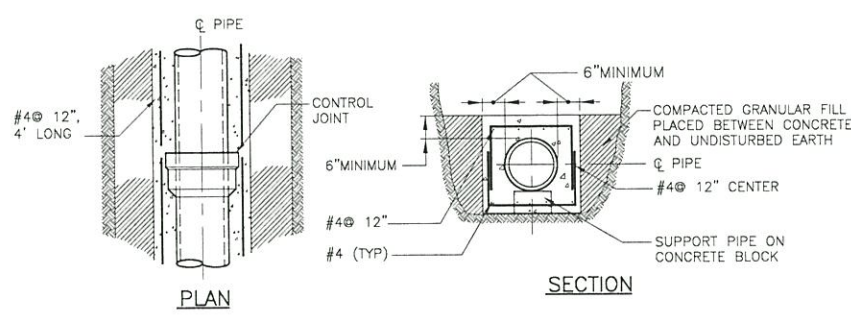
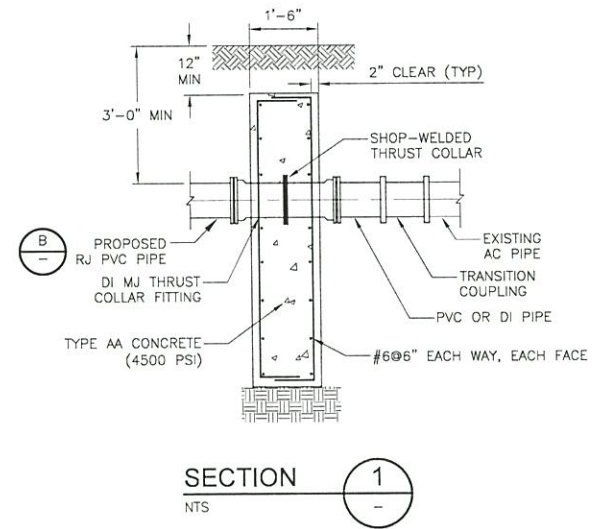
Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Kyle Kempf
Mr. Mike Gwyn
Ms. Penny Higgins



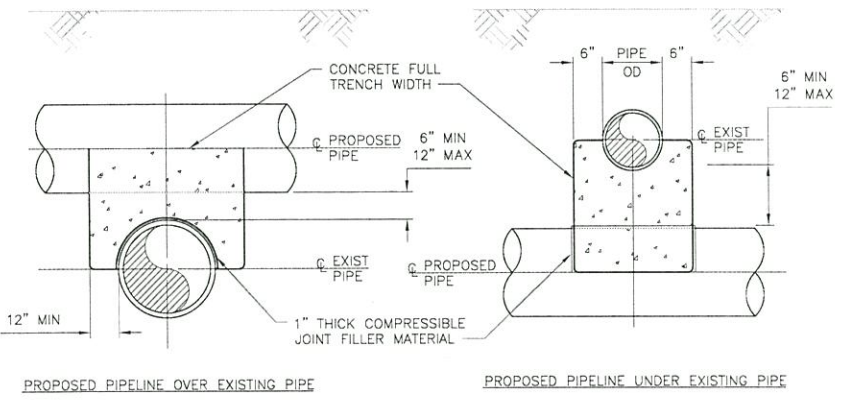
NOMINAL PIPE SIZE	H	W
6"	5'-3"	5'-3"
8"	6'-3"	6'-0"
12"	8'-0"	7'-6"



NOMINAL PIPE SIZE	11.25 DEG		22.5 DEG		45 DEG		90 DEG		TEE/DEAD END	
	A	W	A	W	A	W	A	W	A	W
4"	1'-5"	2'-0"	1'-11"	2'-9"	2'-8"	3'-3"	3'-5"	4'-0"	2'-11"	3'-6"
6"	1'-9"	2'-9"	2'-6"	3'-3"	3'-6"	4'-3"	4'-6"	5'-3"	3'-9"	4'-6"
8"	2'-0"	3'-3"	3'-0"	4'-0"	4'-0"	5'-0"	5'-3"	6'-3"	4'-6"	5'-6"
12"	2'-8"	4'-0"	3'-8"	5'-3"	5'-2"	6'-6"	6'-8"	8'-3"	5'-11"	7'-3"



- NOTES:**
- CONTROL JOINTS SHALL COINCIDE WITH PIPE JOINTS, MAXIMUM DISTANCE BETWEEN CONTROL JOINTS SHALL BE 24' +/-
 - CONCRETE BLOCK SUPPORT SIZE AND SPACING SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
 - ENCASEMENT SHALL BE CAST IN NO LESS THAN TWO POURS, INITIAL CAST SHALL BE CURED FOR 12 HOURS BEFORE CASTING THE NEXT POUR.
 - DEPTH OF INITIAL POUR SHALL BE SELECTED TO PREVENT FLOTATION OF THE PIPE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT FLOTATION OF THE PIPE DURING CASTING.



THRUST COLLAR AND THRUST BLOCK NOTES

- IF OPEN-CUT EXCAVATION IS TO BE USED FOR THE CONSTRUCTION OF A THRUST BLOCK OR COLLAR, ENGINEERED FILL SHALL BE USED AS THE BACKFILL MATERIAL. THE FOLLOWING BACKFILL RECOMMENDATIONS SHALL BE CONSIDERED A MINIMUM:
 ENGINEERED FILL SHOULD BE UNIFORMLY COMPACTED IN 10-INCH MAXIMUM LIFTS TO AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557).
 THE MOISTURE CONTENT OF THE FILL SOILS AT THE TIME OF COMPACTION SHOULD BE WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D699.
 FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE TO THE COMPACTION REQUIREMENTS ABOVE.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, MAX TEST PRESSURE=200 PSI, SOIL = SP, $\gamma = 100 \text{ lb/ft}^3$, MAX BEARING STRENGTH = 1,000 LB/FT², TOP 2" OF SOIL NEGLECTED IN CALCULATION OF SOIL BEARING CAPACITY.
- THE ENTIRE THRUST BLOCK OR THRUST COLLAR SHALL BE A MONOLITHIC CONCRETE POUR WITH NO JOINTS IN THE STRUCTURE.
- THE DIMENSIONS AND REINFORCING SHOWN ARE THE BASE BID AND MAY BE MODIFIED BY THE ENGINEER TO SUIT FIELD CONDITIONS.
- THRUST COLLAR AND THRUST BLOCK SHALL HAVE DEVELOPED 70% OF THE SPECIFIED CONCRETE STRENGTH PRIOR TO PRESSURIZING THE PIPELINE.
- ALL PIPE JOINTS BETWEEN THRUST COLLARS OR THRUST BLOCKS AND GATE VALVE SHALL BE RETAINED, AND PIPE JOINTS PAST THE GATE VALVE SHALL BE RESTRAINED AS SPECIFIED IN DETAIL A ON SHEET UC-3G.

REVISIONS
 10-12-21 THRUST COLLAR AND THRUST BLOCK NOTES REVISED BY ADDENDUM