

TIP PROJECT: HB-0035

CONTRACT: C205194

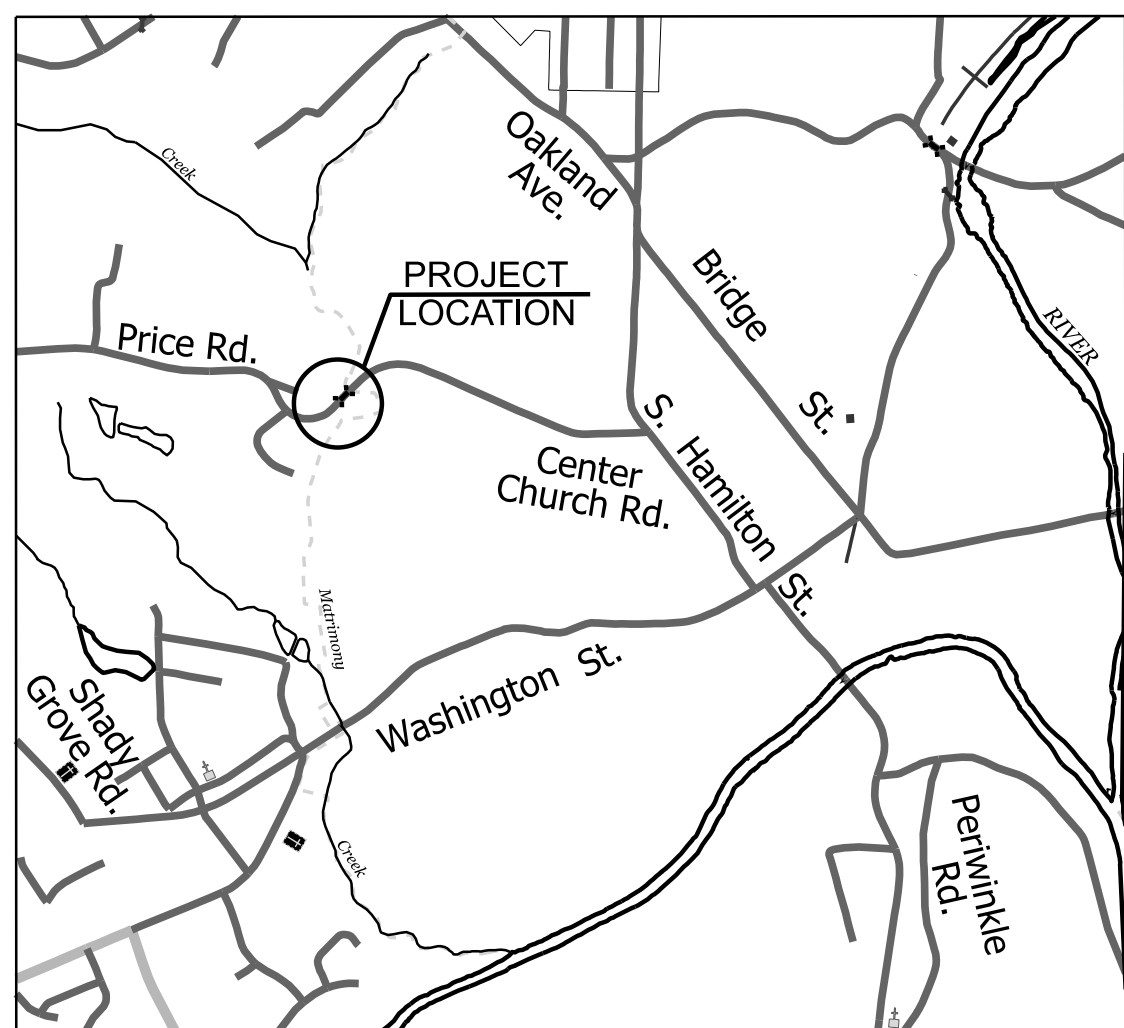
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
HB-0035	UC-1

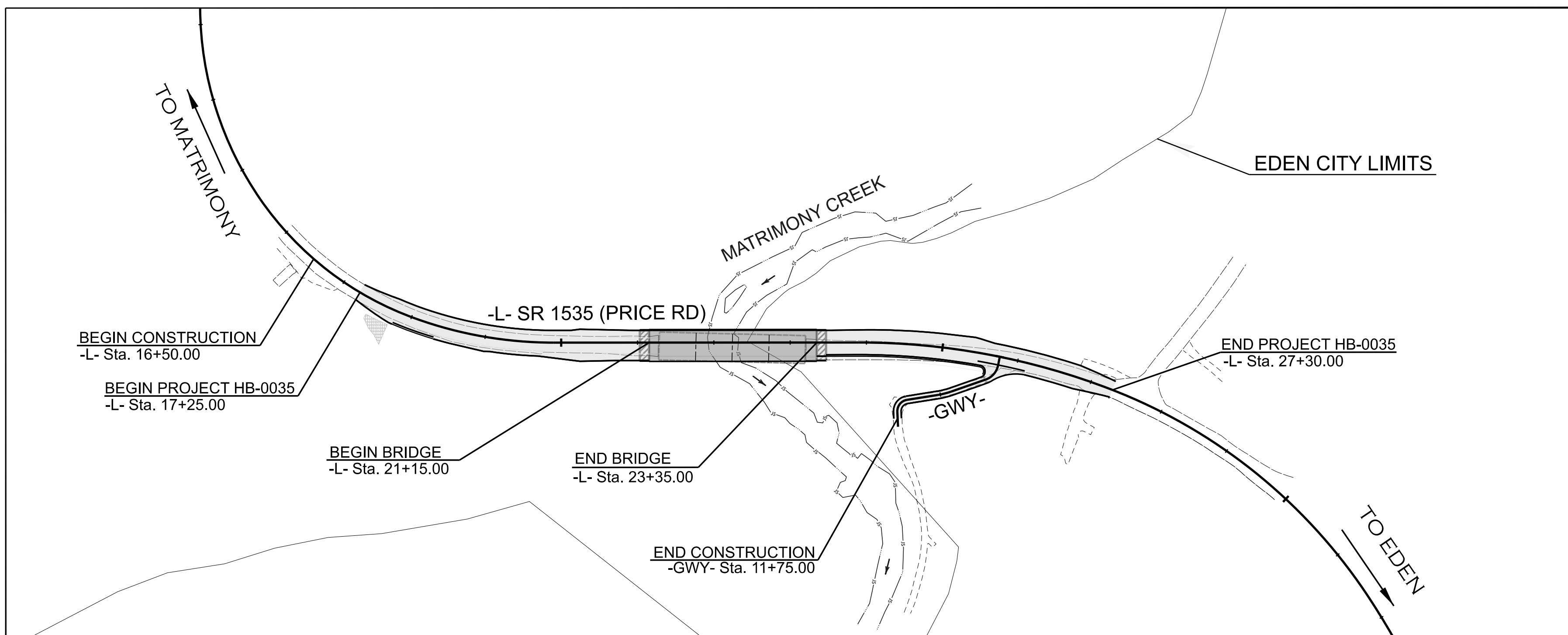
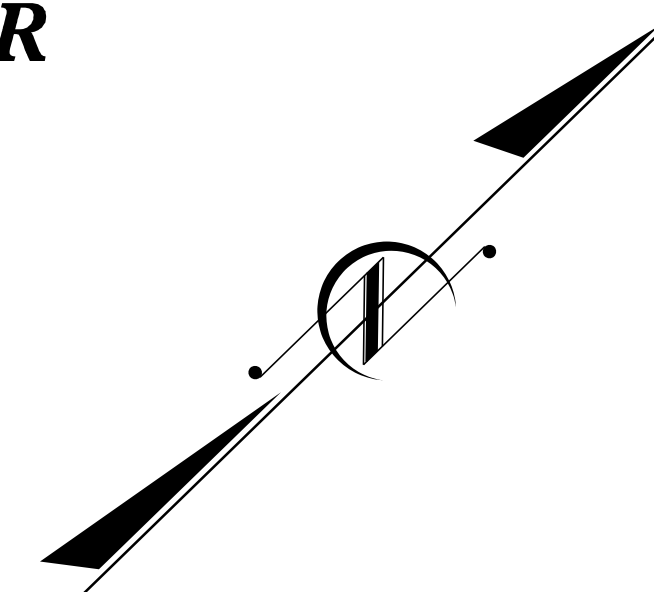
**UTILITIES CONSTRUCTION  
ROCKINGHAM COUNTY**

**LOCATION: REPLACE BRIDGE #780177 ON SR 1535 (PRICE RD) OVER MATRIMONY CREEK IN EDEN**

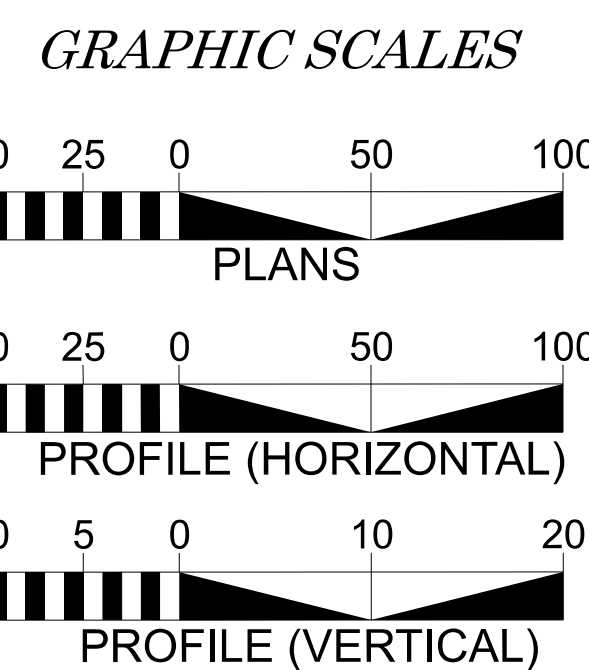
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE**



VICINITY MAP (NTS)



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**INDEX OF SHEETS**

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU 3B	DETAILS
UC-4	UTILITY CONSTRUCTION SHEETS
UC-5	UTILITY PROFILE SHEET

**UTILITY OWNERS  
WITH CONFLICTS**

(A) DAN RIVER WATER (WATER)  
(B) CITY OF EDEN (WATER)

PREPARED IN THE OFFICE OF

1000 Social St., Suite 800.  
Raleigh, NC 27609  
(919) 732-3883  
(919) 732-6676 (FAX)

FAITH JAHNKE, PE CONSULTANT CONTACT #1  
SPENCER MERRITT, PE CONSULTANT CONTACT #2  
DEVON HOYLE, EI CONSULTANT CONTACT #3

SEAL:

4/16/2026

Signed by:

**DIVISION OF HIGHWAYS  
UTILITIES UNIT**  
1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

ALI KOUCHEKI UTILITIES REGIONAL ENGINEER  
DOUG JOYNER UTILITIES ENGINEER  
MARK COLE UTILITIES AREA COORDINATOR  
CORY WOOD UTILITIES COORDINATOR

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## UTILITIES PLAN SHEET SYMBOLS

### PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11¼ Degree Bend	
22½ Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

### PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

### PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement Method	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

### EXISTING UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Utility Pole	
Utility Pole with Base	
H-Frame Pole	
Power Transmission Line Tower	
Water Manhole	
Power Manhole	
Telephone Manhole	
Sanitary Sewer Manhole	
Hand Hole for Cable	
Power Transformer	
Telephone Pedestal	
CATV Pedestal	
Gas Valve	
Gas Meter	
Located Miscellaneous Utility Object	
Abandoned According to Utility Records	
End of Information	

*Underground Power Line	
*Underground Telephone Cable	
*Underground Telephone Conduit	
*Underground Fiber Optics Telephone Cable	
*Underground TV Cable	
*Underground Fiber Optics TV Cable	
*Underground Gas Pipeline	
Aboveground Gas Pipeline	
*Underground Water Line	
Aboveground Water Line	
*Underground Gravity Sanitary Sewer Line	
Aboveground Gravity Sanitary Sewer Line	
*Underground SS Forced Main Line	
Underground Unknown Utility Line	
SUE Test Hole	
Water Meter	
Water Valve	
Fire Hydrant	
Sanitary Sewer Cleanout	

\*For Existing Utilities  
 Utility Line Drawn from Record (Type as Shown)   
 Designated Utility Line (Type as Shown)

# UTILITY CONSTRUCTION

## GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024.
2. THE EXISTING UTILITIES BELONG TO DAN RIVER WATER (336) 623-2526 & THE CITY OF EDEN (336) 623-2110. THE CITY OF EDEN OWNS THE WATERLINE IN ITS ENTIRETY, DAN RIVER MAINTAINS THE WATERLINE FROM THE EXISTING WATER METER TO THE WEST OF THE PROJECT.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE FROM -L- LINE STATION 81+81 TO -L- LINE STATION 20+88 SHALL BE 6" D.I.R.J. (DUCTILE IRON RESTRAINED JOINT) PIPE.

SEE DAN RIVER TECHNICAL STANDARDS

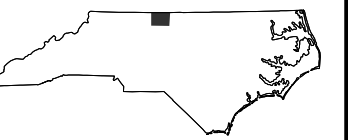
## LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER

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UTL UC-3

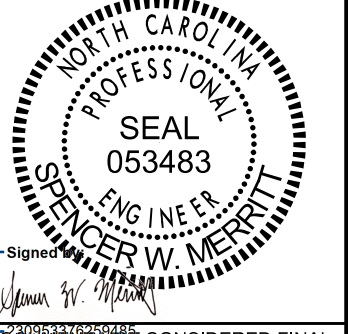
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
ROCKINGHAM COUNTY



UTILITY DESIGN UNIT

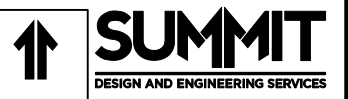
UTILITY CONSTRUCTION  
PLANS ONLY

4/17/2026



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PLANS PREPARED BY:



NC FIRM LICENSE No: C-5176  
1000 Social St. Suite 800.  
Raleigh, NC 27609  
(919) 732-3883  
(919) 732-6676 (FAX)

DESIGNED BY:

DRAWN BY: DEVON HOYLE

CHECKED BY: FAITH JAHNKE

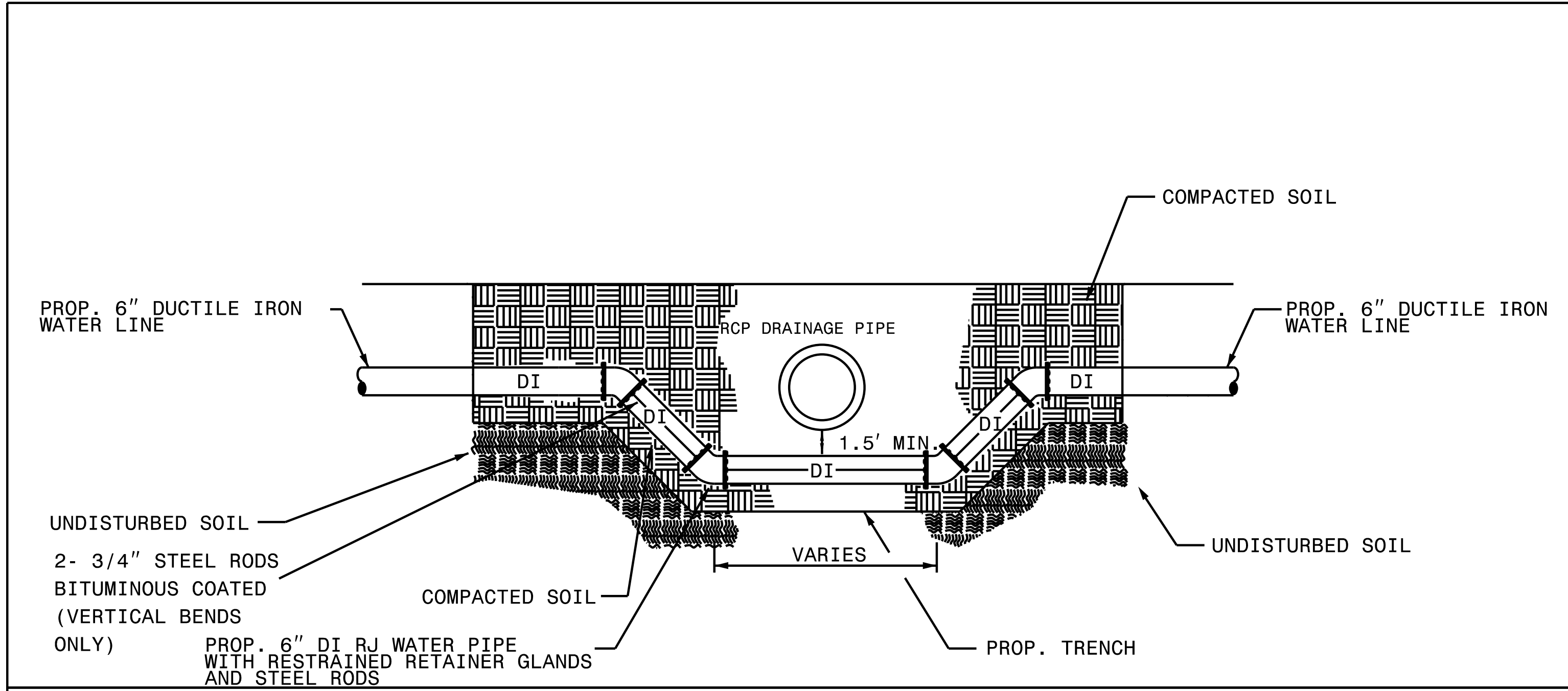
APPROVED BY:

REVISED:

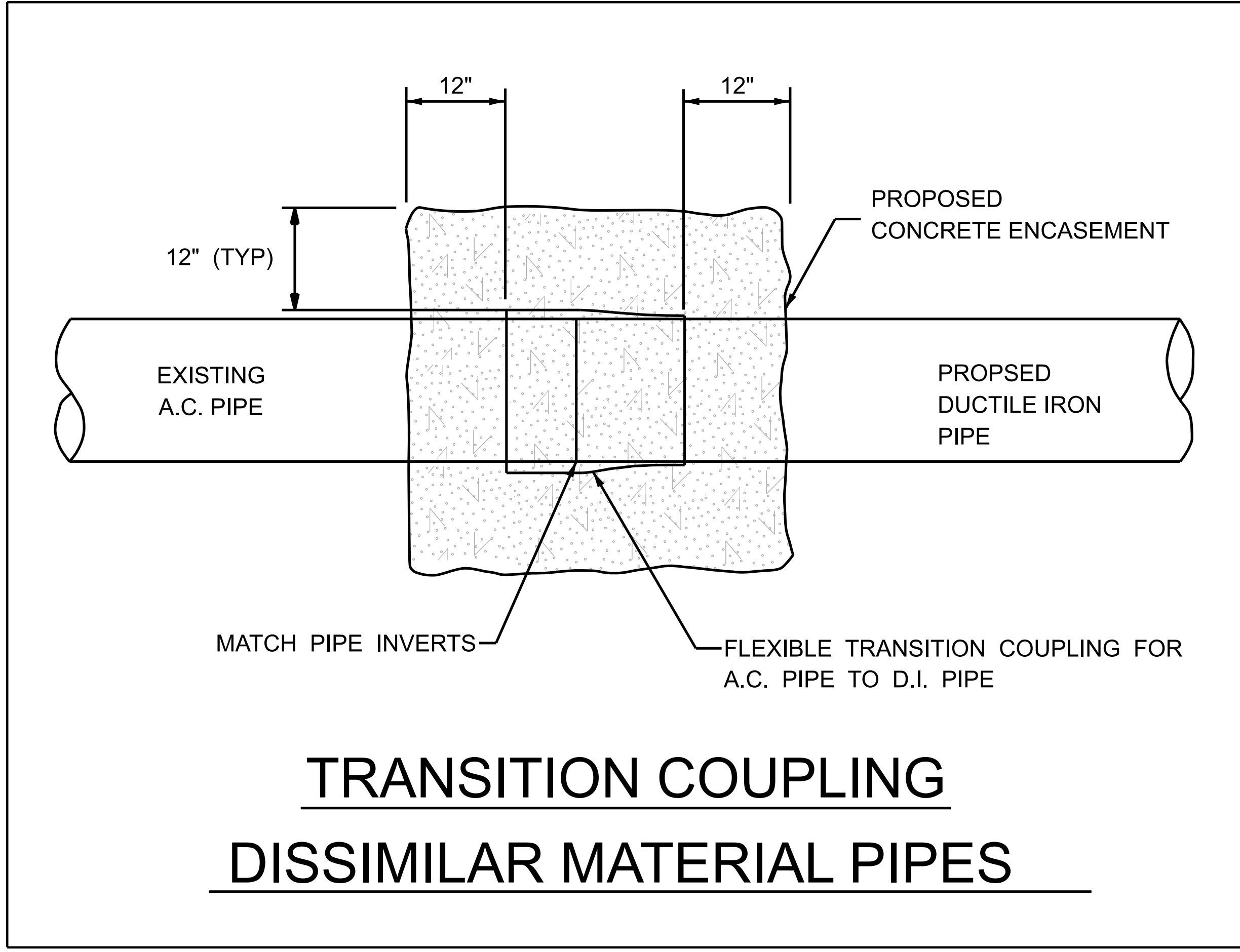
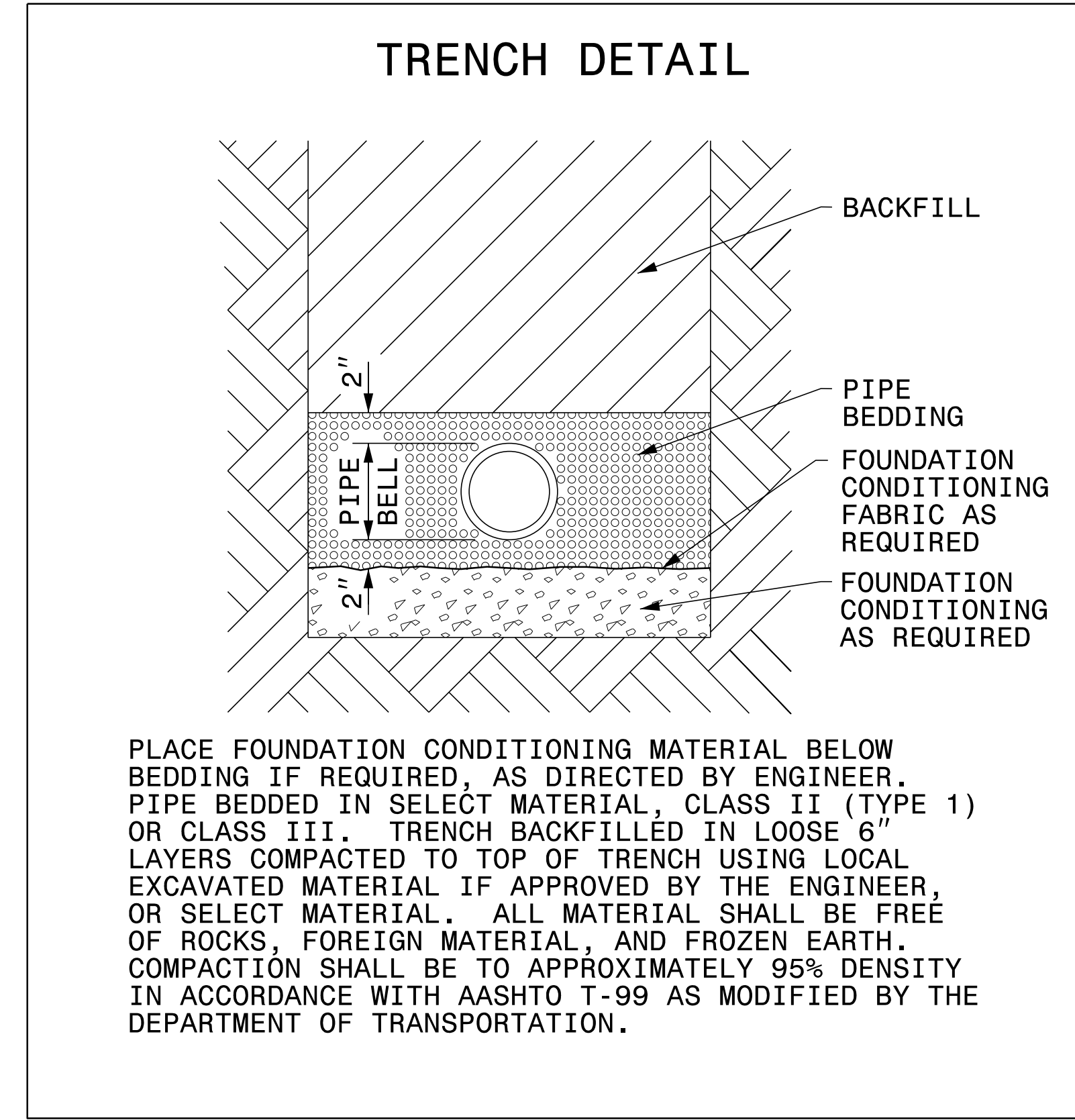
UTILITIES ENGINEERING SEC.  
PHONE: (919) 707-6690  
FAX: (919) 250-4151

REVISIONS

# PROJECT TYPICAL DETAILS



## WATER PIPE CROSSING STORM DRAIN



## TRANSITION COUPLING DISSIMILAR MATERIAL PIPES

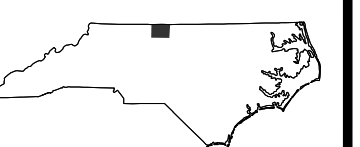
MAXIMUM TRENCH WIDTH AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

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UTL UC-3A

NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
ROCKINGHAM COUNTY



UTILITY DESIGN UNIT

UTILITY CONSTRUCTION PLANS ONLY

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PLANS PREPARED BY  
SUMMIT  
DESIGN AND ENGINEERING SERVICES

NC FIRM LICENSE No: C-5176  
1000 Social St. Suite 800.  
Raleigh, NC 27609  
(919) 732-3883  
(919) 732-6676 (FAX)

DESIGNED BY:

DRAWN BY: DEVON HOYLE

CHECKED BY: FAITH JAHNKE

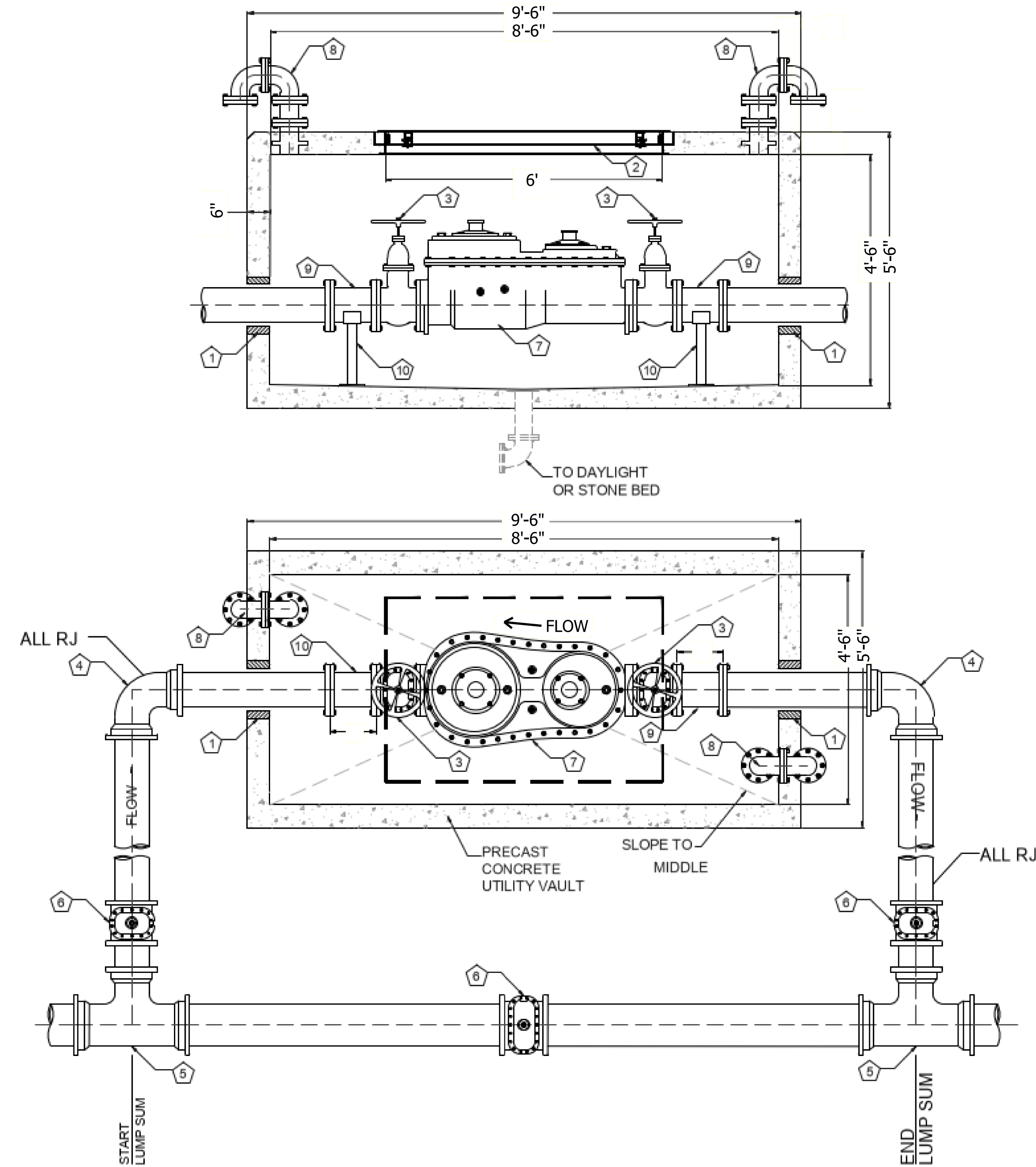
APPROVED BY:

REVISED:

UTILITIES ENGINEERING SEC.  
PHONE: (919) 707-6690  
FAX: (919) 250-4151

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# PROJECT SPECIFIC DETAILS



## MASTER METER VAULT

NO SCALE

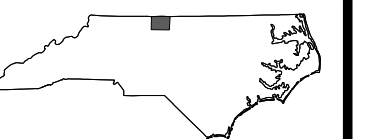
NOTE: ENSURE FLOW OF WATER RUNS EAST TO WEST.

①	WALL PENETRATION ANNULAR SEAL
②	ALUMINUM ACCESS HATCH, 48" X 72" CLEAR OPENING, DOUBLE LEAF
③	6" GATE VALVE, FL
④	6" X 6" 90° DI ELBOW, MJ
⑤	6" X 6" X 6" DI TEE, MJ
⑥	6" GATE VALVE, MJ
⑦	6" COMPOUND MAGNETIC DRIVE METER
⑧	4" X 4" 90° DI ELBOWS, FL X FL, VENT W/ SS SCREEN
⑨	6" DI SPOOL, 12" LENGTH
⑩	STEEL PIPE SUPPORT

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UTL UC-3B

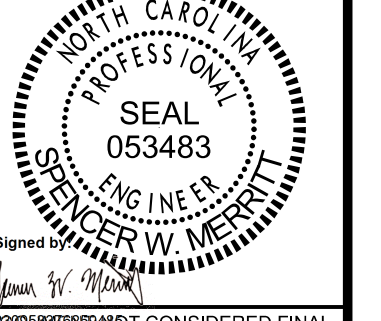
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ROCKINGHAM COUNTY



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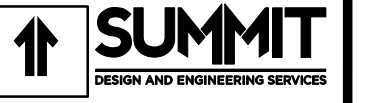
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Raleigh, NC 27609  
(919) 732-3883  
(919) 732-6676 (FAX)

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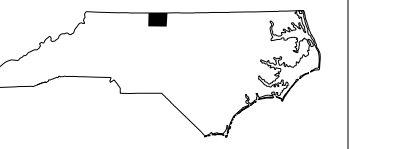
CHECKED BY: FAITH JAHNKE

APPROVED BY:

REVISED:

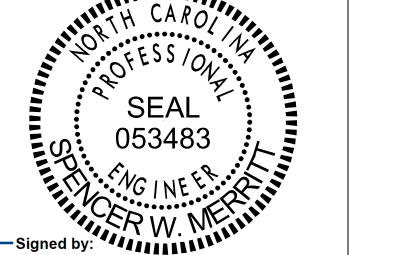
UTILITIES ENGINEERING SEC.  
PHONE: (919) 707-6690  
FAX: (919) 220-4151

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Signed by: Carrie Galloway, Professional Engineer

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PLANS PREPARED BY:



NC FIRM LICENSE No: C-5176  
1000 Social St, Suite 900,  
Raleigh, NC 27609  
(919) 732-3883  
(919) 732-6676 (FAX)

NOTE: EXISTING VALVE LOCATED AT INTERSECTION OF BLACK BOTTOM ROAD.

H S NOLEN GERNERAL CONTRACTORS DB 755 PG 200-201

CARRIE GALLOWAY DB 1487 PG 1751

TIE TO EXISTING 6" DUCTILE IRON WL  
-L- STA. 18+00.00 24.16' RT  
-WL1- STA. 10+00.00

PROP. 306 LF 6" DI WATER LINE

PROP DUCTILE IRON WATER PIPE FITTINGS 45 DEGREE BENDS (RESTRAINED)

PROP DUCTILE IRON WATER PIPE FITTINGS 45 DEGREE BENDS (RESTRAINED)

PROP DUCTILE IRON WATER PIPE FITTINGS 22.5 DEGREE BENDS (RESTRAINED)

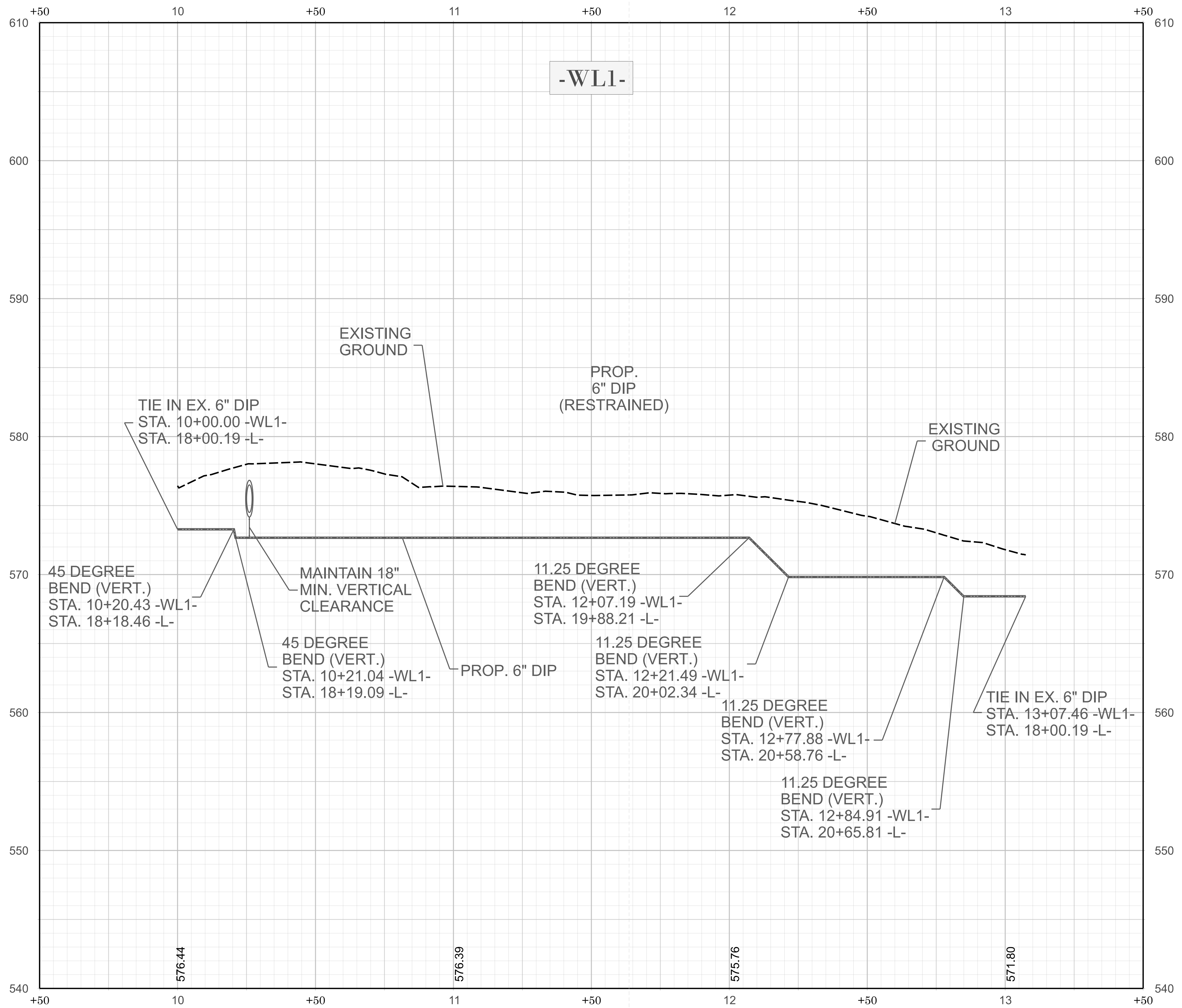
UTILITY VAULT PROP. MASTER METER - SEE DETAILS

PROP DUCTILE IRON WATER PIPE FITTINGS 45 DEGREE BENDS (RESTRAINED)

TIE TO EXISTING 6" DUCTILE IRON WL  
-L- STA. 20+88.00 45.83' RT  
-WL1- STA. 13+07.46

H S NOLEN GERNERAL CONTRACTORS DB 755 PG 200-201

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 750 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.



5:1 VERTICAL EXAGGERATION

HB-0035  
 UC 005  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 ROCKINGHAM COUNTY

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 3/13/2026

Signed by:  
 Roger W. Merritt  
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 Raleigh, NC 27609  
 (919) 732-3883  
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