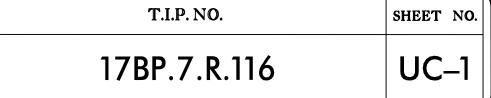
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3149 17BP.7.R.116 **PROJECT** LIMITS VICINITY MAP

OFF-SITE DETOUR

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS



UTILITY CONSTRUCTION PLANS GUILFORD COUNTY

LOCATION: BRIDGE NO. 224 OVER SOUTH BUFFALO CREEK ON SR 3000 (McCONNELL ROAD)

TYPE OF WORK: WATER AND SEWER RELOCATION

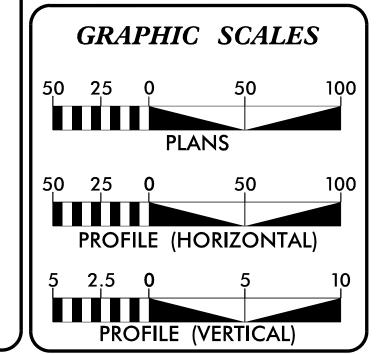
\_\_ L.F.X \$1.50=\$\_\_**0** 2.F.X \$1.50 L.F.X \$1.50=\$\_\_\_\_ =\$\_**0 SEWER** \_L.F.X \$1.50=\$\_ ☐ ROADWAY TO BE PRIVATELY INSPECTED DATE FEE(S) RECEIVED BY CITY OF GREENSBORO\_\_\_\_\_

UC-4 END BRIDGE -L- Sta. 16+75.00 BEGIN APPROACH SLAB END APPROACH SLAB -L- Sta. 14+60.86 -L- Sta. 16+99.14 SR 3000 (McCONNELL ROAD) <u>|END PROJECT 17BP.7.R.J16</u> -L- POC Sta. 20+00.00 END CONSTRUCTION BEGIN BRIDGE -Y- POT Sta. II+50.00 -L- Sta. 14+85.00 BEGIN PROJECT 17BP.7.R.J16
-L- POC Sta. 10+75.00

ENCROACHMENT PERMIT IS REQUIRED THROUGH NCDOT FOR WATERLINE INSTALLATION, CALL (336) 487-0100 FOR PERMIT.

CONSTRUCTION INSPECTION
REQUIRED FOR 6", 8", 12" AND 30"
WATERLINE INSTALLATION, CALL
(336) 373–2377 TO SCHEDULE AN INSPECTOR.

> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



#### INDEX OF SHEETS

SHEET NO.: **DESCRIPTION:** 

TITLE SHEET UTILITY SYMBOLOGY *UC-2* 

*UC-3* **NOTES** UC-3A, UC-3B, UC-3C DETAILS

UC-4, UC-4A UTILITY CONSTRUCTION SHEETS PROFILE SHEET *UC-5* 

WATER AND SEWER OWNERS ON PROJECT

A) WATER - CITY OF GREENSBORO B) SEWER - CITY OF GREENSBORO

PREPARED IN THE OFFICE OF:



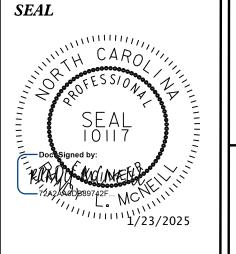
WWW.DMP-INC.COM LICENSE: F-0245

Randy McNeill, P.E. Steve McKee, P.E.

Ralph Lowe

CONSULTANT CONTACT #1 CONSULTANT CONTACT #2

CONSULTANT CONTACT #3





**DIVISION OF HIGHWAYS DIVISION** 7 1584 YANCEYVILLE STREET GREENSBORO, NC 27415-4996 PHONE (336) 487-0000 FAX (336) 334–3637

Daniel Dagenhart Kelvin S. Martin Cody Lungrin

DIV. BRIDGE PROGRAM MGR Wright R. Archer, III, P.E. DIVISION ENGINEER Stephen J. Robinson, P.E. DIVISION PROJECT MANAGER **DIVISION UTILITIES ENGINEER** DIV. UTILITY COORDINATOR

Docusign Envelope ID: BC8B7A87-753E-4097-9793-003D1BBF6180

#### PROJECT REFERENCE NO. 17BP.7.R.116 - GUILFORD 224

A/G Gas

A/G Water

A/G Sanitary Sewer

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# UTILITIES PLAN SHEET SYMBOLS

### PROPOSED WATER SYMBOLS

# Water Line (Sized as Shown) - — — — — — 12" WL 11½ Degree Bend -————————————— 90 Degree Bend -——————— Plug -----Cross-————————————<del>|</del> Reducer - — — — — — — — — — — — Gate Valve-—————————— Butterfly Valve ——————— $\overset{\scriptscriptstyle\mathsf{BV}}{\blacktriangleright}$ Tapping Valve ————————— Line Stop with Bypass—————— Fire Hydrant-———————————————————— Relocate Fire Hydrant — — — — — ■ Remove Fire Hydrant———————————————————— Relocate Water Meter — — — — — ■ Remove Water Meter — — — — — — REM WM Water Pump Station — — — — — PS(W) RPZ Backflow Preventer - — — — — PRPZ DCV Backflow Preventer —————— Relocate RPZ Backflow Preventer——— 🔀 Relocate DCV Backflow Preventer——— 🔀 PROPOSED SEWER SYMBOLS (Sized as Shown) Force Main Sewer Line \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_\_\_ (Sized as Shown) (Sized per Note)

Sewer Pump Station — — — — — — — — PS(SS)

## PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Power Pole —————————	- <b>6</b>	Thrust Block -———————	
Telephone Pole -————————	- <b>-0-</b>	Air Release Valve-—————————AR	
Joint Use Pole -————————	- <b>-6-</b>	Utility Vault — — — — — — — —	
Telephone Pedestal — — — — — — —	- TEL PED	Concrete Pier — — — — — — — — — —	
Utility Line by Others	PROP O/H POW LINES	Steel Pier ——————— 🗀	
Trenchless Installation $$	12" TL INSTALL	Plan Note	- <b>-</b> -
Encasement by Open Cut ——————	- 24" ENCAS BY OC	Pay Item Note — — — NOT	
Encasement · — — — — — — — — — — —	24" FNCASEMENT	PAY	Y ITEM

## EXISTING UTILITIES SYMBOLS

Power Pole	•	*Underground Power Line-—————
Telephone Pole	<b>-</b> ◆-	*Underground Telephone Cable ————
Joint Use Pole	<b>→</b>	*Underground Telephone Conduit-———
Utility Pole-————————	•	*Underground Fiber Optics Telephone Cable
Utility Pole with Base-—————		*Underground TV Cable — — — — — —
H-Frame Pole-—————————	•—•	*Underground Fiber Optics TV Cable———
Power Transmission Line Tower-———		*Underground Gas Pipeline - — — — —
Water Manhole — — — — — — — — —	(W)	Aboveground Gas Pipeline-—————
Power Manhole — — — — — — — — —	<b>(P)</b>	*Underground Water Line-—————
Telephone Manhole -————————	lacktriangle	Aboveground Water Line-——————
Sanitary Sewer Manhole — — — — —	●	*Underground Gravity Sanitary Sewer Line-
Hand Hole for Cable — — — — — —	FH	Aboveground Gravity Sanitary Sewer Line-
Power Transformer-—————————		*Underground SS Forced Main Line————
Telephone Pedestal — — — — — — —	T	Underground Unknown Utility Line — — —
CATV Pedestal — — — — — — — — —		SUE Test Hole — — — — — — — —
Gas Valve	<b>♦</b>	Water Meter — — — — — — — — — —
Gas Meter — — — — — — — — — — — — — — — — — — —	<b>\Phi</b>	Water Valve — — — — — — — — — — — — — — — — — — —
Located Miscellaneous Utility Object — —	⊙	Fire Hydrant-—————————
Abandoned According to Utility Records —	AATUR	Sanitary Sewer Cleanout — — — — —
End of Information — — — — — — —	E.O.I.	
	•	

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

## 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 WATER AND SEWER UTILITIES BELONG TO THE CITY OF GREENSBORO.
- 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. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED WATER MAINS 12" DIAMETER AND SMALLER SHALL BE DUCTILE IRON, PC 350.
- 2. UNLESS OTHERWISE NOTED, PIPE AND FITTINGS FOR PROPOSED WATER MAINS 16" DIAMETER AND LARGER SHALL BE DUCTILE IRON, PC 250.
- 3. FURNISH AND INSTALL RESTRAINED-JOINT D.I. PIPE AND FITTINGS AS NOTED ON THE PLANS AND PROFILES.
- 4. WATER LINE VALVES SHALL BE RESILIENT-SEAT GATE VALVES CONFORMING TO ANSI/AWWA C509, OR ANSI/AWWA C515, AND SHALL BE RATED FOR A MINIMUM WORKING PRESSURE OF 250 PSI.
- 5. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
- 6. THE CONTRACTOR SHALL CONTACT THE CITY OF GREENSBORO WATER RESOURCES DEPARTMENT AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY WORK INVOLVING SHUT-DOWNS OF EXISTING WATER MAINS. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE TO CUSTOMERS WHEN EXISTING WATER MAINS HAVE TO BE SHUT DOWN FOR MORE THAN 8 HOURS.
- 7. AS INDICATED ON THE DETAILS OF THESE PLANS AND AS DESCRIBED IN THE SPECIAL PROVISIONS, ALL EQUIPMENT WITHIN THE VAULTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, ALL WIRING WILL BE FURNISHED AND INSTALLED BY OTHERS.

## LIST OF STANDARD DRAWINGS

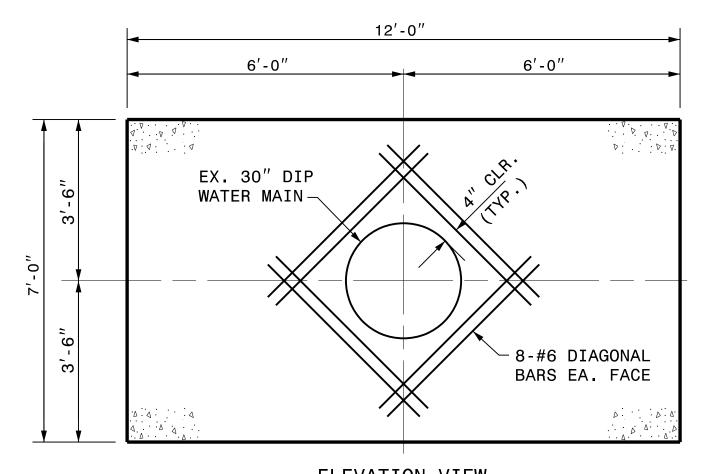
1515.02 FIRE HYDRANT

SHEET NO. PROJECT REFERENCE NO. 17BP.7.R.116 - GUILFORD 224 UC-3 DESIGNED BY: DMP DRAWN BY: DMP CHECKED BY: DMP APPROVED BY: REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC PHONE: (919)707-6690 UTILITY CONSTRUCTION FAX: (919)250-4151 PLANS ONLY

UTILITY CONSTRUCTION

**DOCUMENT NOT CONSIDERED FINAL** UNLESS ALL SIGNATURES COMPLETED

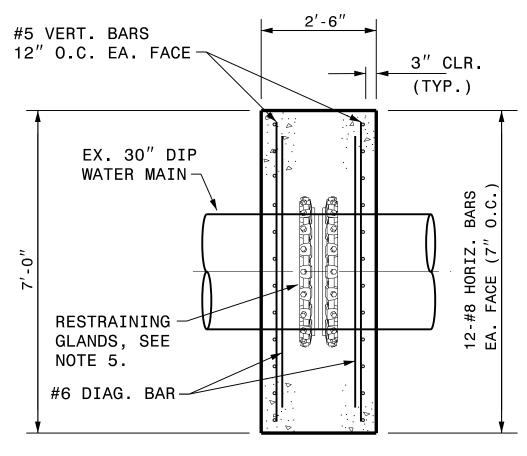
#### PLAN VIEW



**ELEVATION VIEW** (HORIZ. & VERT. BARS NOT SHOWN FOR CLARITY)

#### NOTES:

- 1. CONCRETE FOR THRUST COLLAR SHALL BE MIN. 3,000 PSI CLASS A, NON-AIR ENTRAINED. REINFORCING STEEL FOR THRUST WALL SHALL BE GRADE 60.
- 2. DESIGN IS BASED ON TEST PRESSURE OF 200 PSI WITH A SAFETY FACTOR = 1.25 AND ASSUMED SOIL BEARING CAPACITY OF 2,500 LBS/SF.
- 3. DIAGONAL BARS SHALL BE PLACED INSIDE VERTICAL BARS AS SHOWN. DIAGONAL BARS SHALL BE 4'-8"± LONG.
- 4. THRUST COLLAR SHALL BE ORIENTED APPROXIMATELY AT THE CENTER OF PIPE JOINT.
- 5. TWO (2) OPPOSING SPLIT RESTRAINING GLANDS BOLTED TOGETHER WITH STAINLESS STEEL BOLTS. GRIPPING WEDGES SHALL BE TORQUED TO MANUFACTURERS SPECIFICATIONS. RESTRAINING GLANDS SHALL BE WRAPPED WITH POLYETHELENE AND SECURED PRIOR TO POURING CONCRETE.
- 6. ANY PROPOSED MODIFICATIONS TO THIS DETAIL, BASED ON THE FIELD CONDITIONS, MUST BE APPROVED BY THE CITY OF GREENSBORO FIELD INSPECTOR AND/OR THE ENGINEER OF RECORD.



END SECTION VIEW

STAINLESS STEEL CASING SPACER, TWO (2) PER LENGTH

ON PLANS

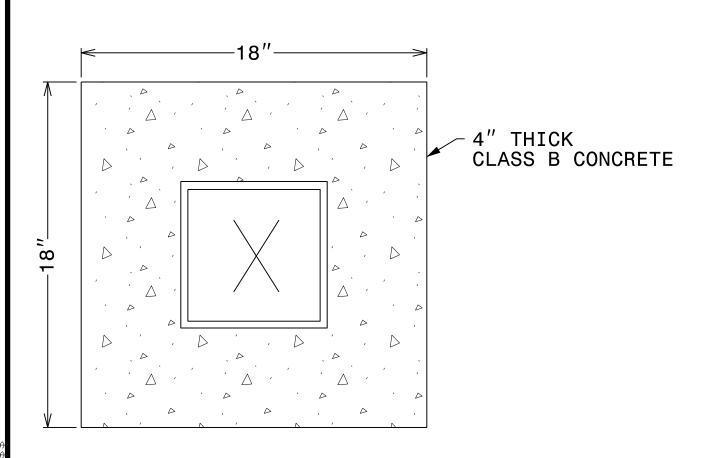
ENCASEMENT)

OF PIPE MINIMUM, ADEQUATELY

DESIGNED TO MAINTAIN PROPER GRADE & ALIGNMENT INDICATED

STEEL ENCASEMENT PIPE (DIAMETER, MINIMUM WALL THICKNESS, AND INSTALLATION METHOD NOTED ON PLANS AND/OR PROFILES FOR EACH

#### CONCRETE THRUST COLLAR FOR 30" DIAMETER D.I. WATER PIPE (NOT TO SCALE)



#### CONCRETE COLLAR FOR VALVE BOX

- 1. PROVIDE CONCRETE COLLARS FOR ALL VALVE BOXES
- THAT ARE NOT IN PAVED AREAS. 2. VALVE BOX LIDS SHALL HAVE THE LETTER "W" FOR WATER VALVES, OR "S" FOR SEWER VALVES.

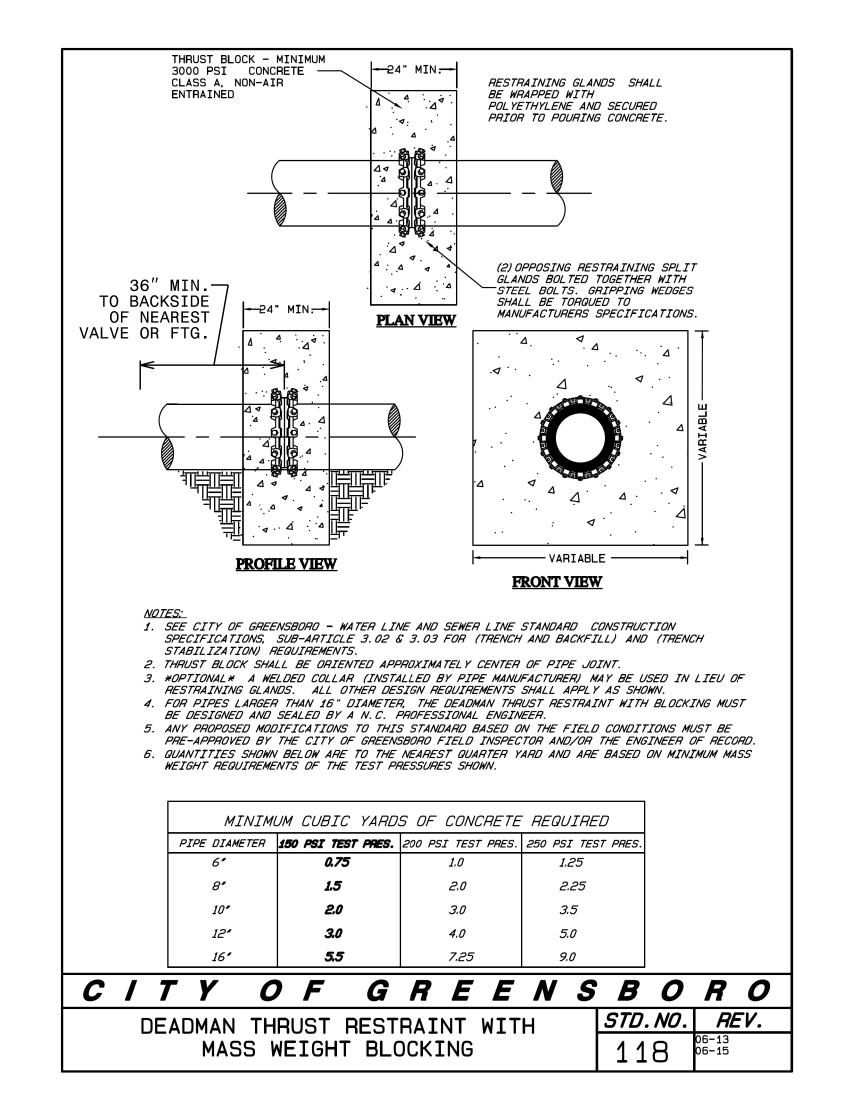
TYPICAL ENCASEMENT PIPE SECTION N.T.S.

2. PROVIDE 2" WEEP HOLE AT LOW END OF ENCASEMENT.

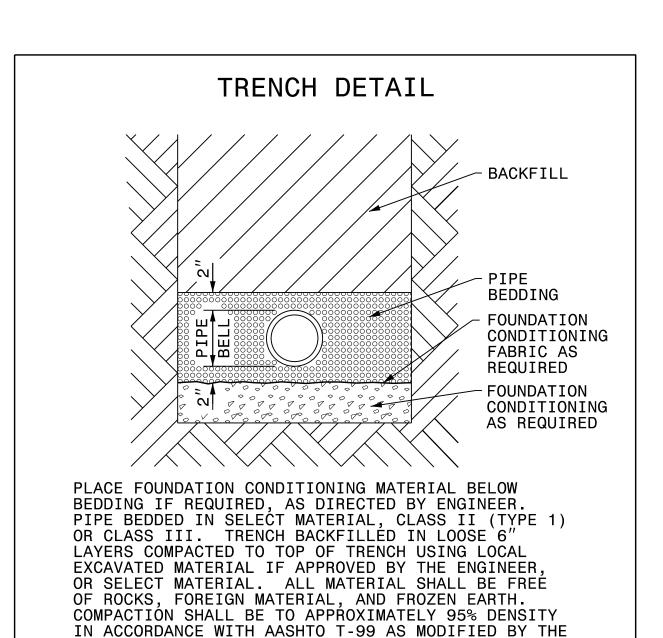
3. SEE 2018 NCDOT STANDARD SPECIFICATIONS, DIVISION 15,

SECTIONS 1540 AND 1550, FOR OTHER REQUIREMENTS.

1. ENCLOSE ENDS WITH BRICK MASONRY.







DEPARTMENT OF TRANSPORTATION.

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	60	84			

Davis • Martin • Poweli ENGINEERS & SURVEYOR 6415 OLD PLANK RD, HIGH POINT, NC 27265

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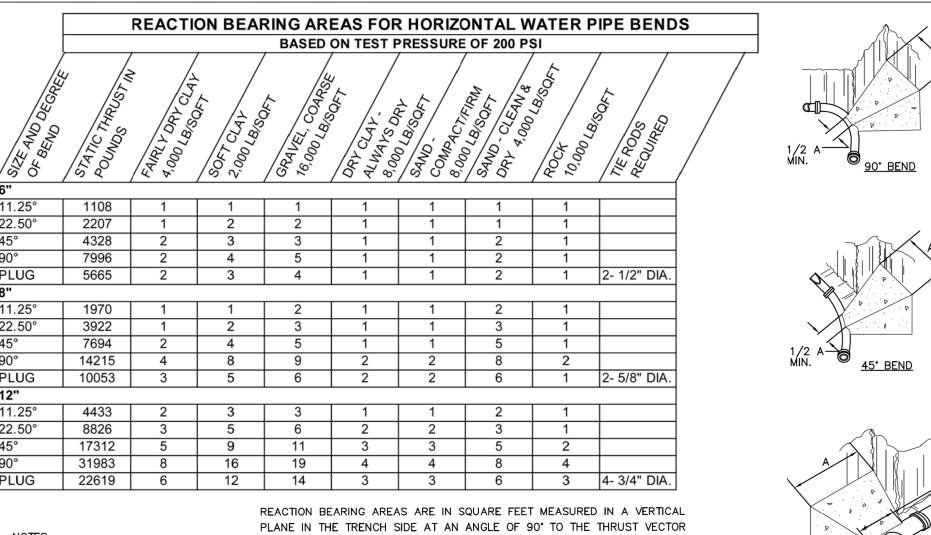
M/H SHEET 1 OF 3 CITY OF GREENSBORO STD. NO. REV.

HOUSE CONNECTION AND HYDRANT SETTING DETAIL

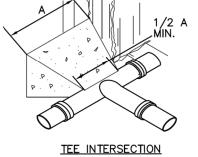
PROJECT REFERENCE NO. SHEET NO. 17BP.7.R.116 - GUILFORD 224 UC-3B DESIGNED BY: DMP DRAWN BY: DMP CHECKED BY: DMP APPROVED BY: REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
UTILITY CONSTRUCTION
FAX: (919)250-4151
PLANS ONLY

### UTILITY CONSTRUCTION

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- CONCRETE SHALL BE 3000 PSI.
   CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
  - ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING. 4. USE 6" 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTORS.



6" #57 STONE-

NOTE:

C/L EL. 703.5±

12" RJ DIP

2" TAPPING SADDLE

MECHANICAL PIPE-

THE 2" PITOMETER TAP AND MANHOLE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, WIRING TO BE INSTALLED BY OTHERS.

-16" SQ. x 6"

DEEP SUMP

2" PITOMETER TAP IN 4' DIA. MH

LOCKABLE ACCESS HATCH -30"x30" ALUMINUM (H-20 RATED) LOCKABLE ACCESS HATCH -MH STEPS @ (H-20 RATED) 16" O.C. TOP <u>EL. 710.6±</u> 6'x6' PRECAST — VAULT **@** 16" 0.C. 8" MAGNETIC FLOW--8" RESTRAINED METER TO BE INSTALLED FLANGE ADAPTER, TYP. 8" MAGNETIC FLOW-BY THE CONTRACTOR, -----METER TO BE INSTALLED WIRED BY THE CITY. BY THE CONTRACTOR, WIRED BY THE CITY. C/L EL. 703.5±-DEEP SUMP MECHANICAL -PIPE SEAL, TYP -16" SQ. x 6" DEEP SUMP MECHANICAL -PIPE SEAL, TYP 6'-0" └8" RESTRAINED BRICK -STONE SUPPORT, TYP. FLANGE ADAPTER, TYP. PLAN SECTION

8" FLOW METER IN VAULT

WIRING TO BE INSTALLED BY OTHERS.

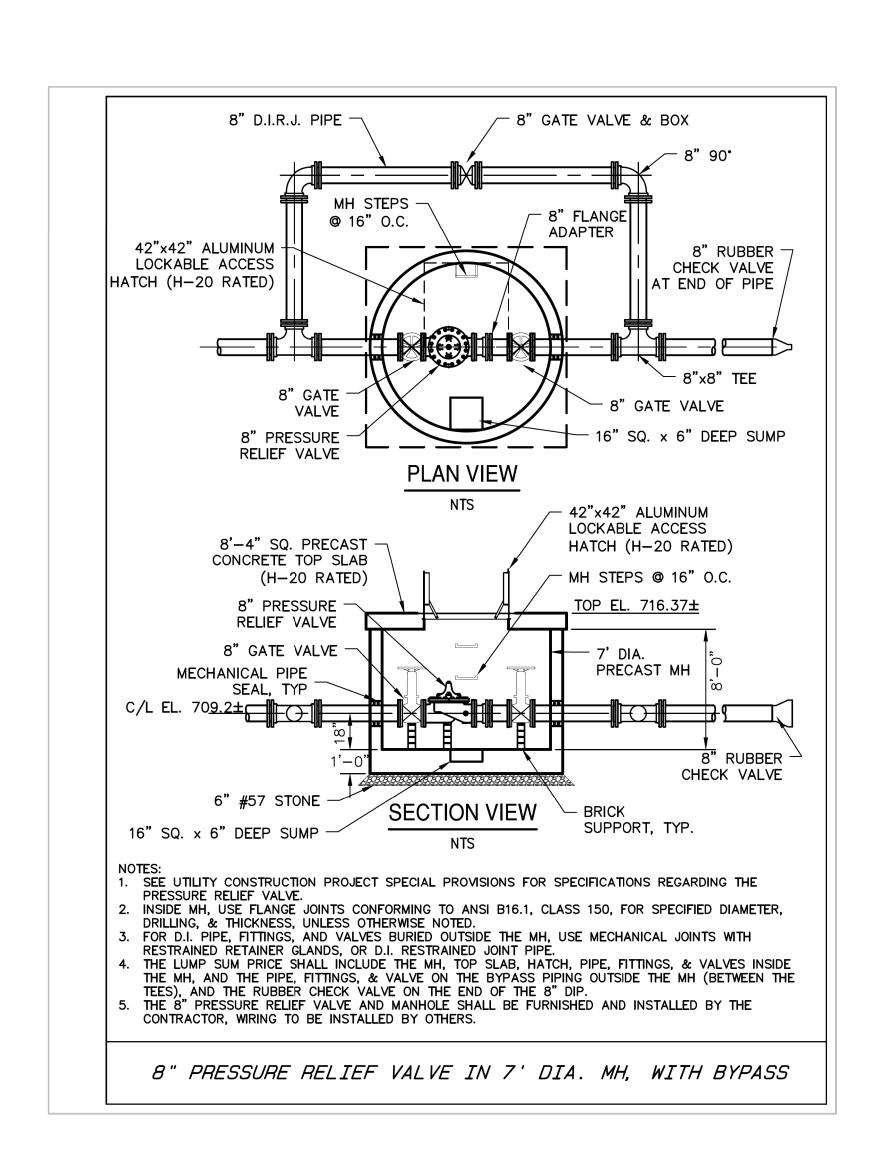
8" FLOW METER IN VAULT

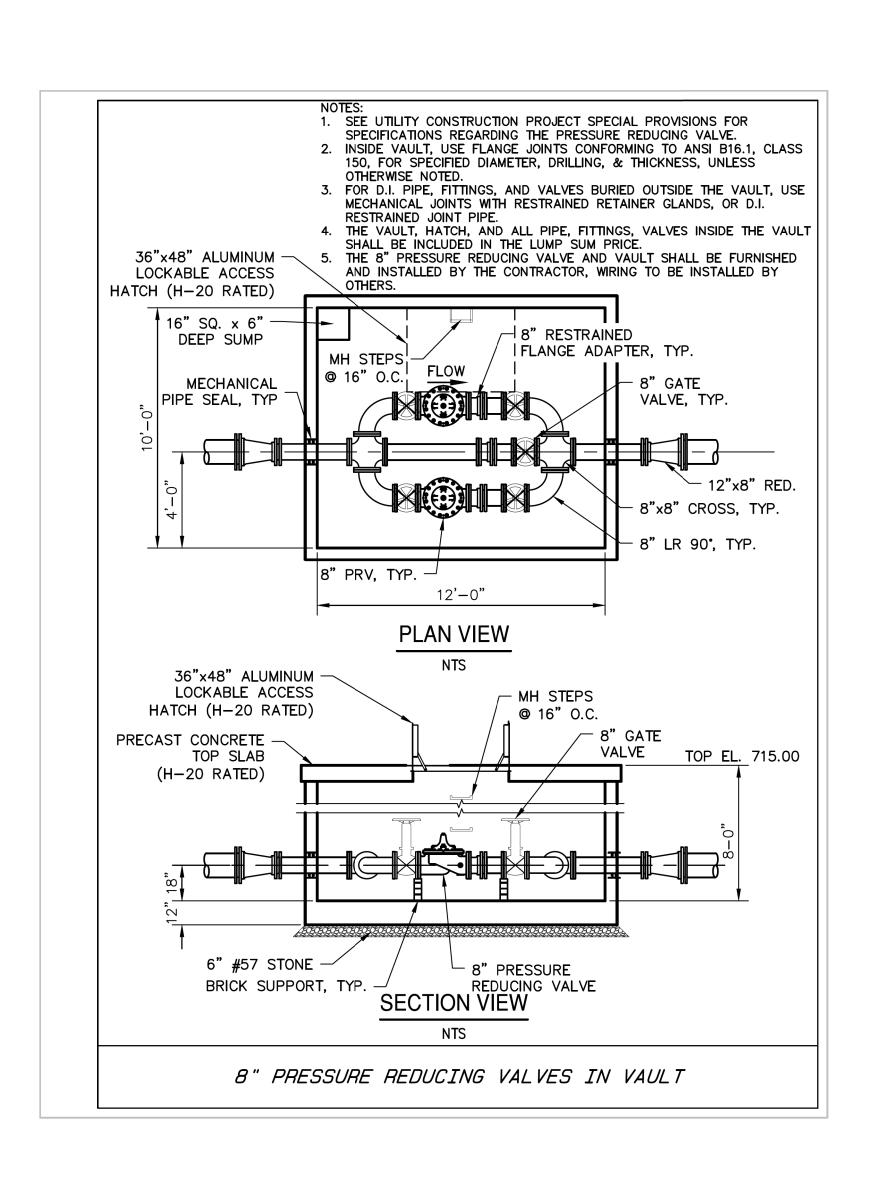
NTS

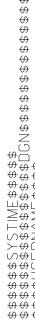
THE 8" FLOW METER AND VAULT SHALL BE

FURNISHED AND INSTALLED BY THE CONTRACTOR,

MH STEPS **@** 16" O.C. CONTROL VALVE ACTUATOR 42"x42" ALUMINUM LOCKABLE ACCESS - 8" FLANGE HATCH (H-20 RATED) ADAPTER MECHANICAL PIPE SEAL, TYP 8" GATE VALVE - 16" SQ. x 6" DEEP SUMP **PLAN VIEW** NTS 42"x42" ALUMINUM LOCKABLE ACCESS PRECAST CONCRETE TOP -HATCH (H-20 RATED) (H-20 RATED)MH STEPS @ 16" O.C. TOP EL. 713.50 PRECAST VAULT 8" GATE VALVE -MECHANICAL PIPE SEAL, TYP C/L EL. 703.5± — — — 1'-0" 16" SQ. x 6" DEEP SUMP **SECTION VIEW** 6" #57 STONE — SUPPORT, TYP. SEE UTILITY CONSTRUCTION PROJECT SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING THE CONTROL VALVE & ACTUATOR. INSIDE VAULT, USE FLANGE JOINTS CONFORMING TO ANSI B16.1, CLASS 150, FOR SPECIFIED DIAMETER, DRILLING, & THICKNESS, UNLESS OTHERWISE NOTED. FOR D.I. PIPE, FITTINGS, AND VALVES BURIED OUTSIDE THE MH, USE MECHANICAL JOINTS WITH RESTRAINED RETAINER GLANDS, OR D.I. RESTRAINED JOINT PIPE. 4. THE LUMP SUM PRICE SHALL INCLUDE THE VAULT, HATCH, PIPE, FITTINGS, VALVES. CONTROL VALVE ACTUATOR TO BE INSTALLED AND WIRED BY THE CITY OF GREENSBORO. . THE 8" CONTROL VALVE AND VAULT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, WIRING TO BE INSTALLED BY OTHERS. 8" CONTROL VALVE IN 7' SQ. VAULT







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FAX: (919)250-4151 PLANS ONLY

UTILITY CONSTRUCTION

UC-3C

17BP.7.R.116 - GUILFORD 224

DMP

DESIGNED BY: DMP

CHECKED BY: DMP

NORTH CAROLINA DEPARTMENT OF

TRANSPORTATION

UTILITIES ENGINEERING SEC

DRAWN BY:

APPROVED BY:

REVISED:

- 30"x30" ALUMINUM

B-77 ANCHOR UNITS ON

ALL FOUR BRIDGE CORNERS

DB 2304 PG 623

-Y- PT Sta. 11+24.41

-L- POC Sta. 10+75.00

UTILITY CONSTRUCTION PLANS PREPARED BY: Davis • Martin • Powell ENGINEERS & SURVEYOR 6415 OLD PLANK RD, HIGH POINT, NC 27265

T = 134.64'

R = 2,125.00'

PHONE: (336)886-4821 FAX: (336)886-4458 WWW.DMP-INC.COM LICENSE: F-0245

T = 217.20'

R = 1.850.00'

