PAMLICO RIVER 1118 يزة BEGIN PROJECT END PROJECT 1112 1110 VICINITY MAP

B

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

T.I.P. NO. SHEET NO. B-5614 UC-1

-L- STA.32+00.00

UTILITY CONSTRUCTION PLANS BEAUFORT COUNTY

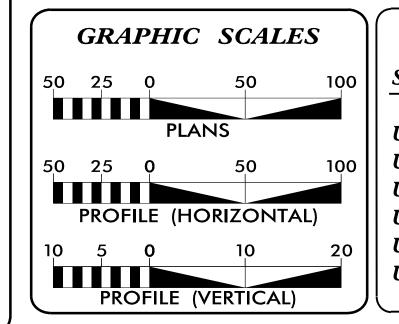
> LOCATION: BRIDGE #060009 OVER BLOUNTS CREEK ON SR 1112 (MOUTH OF THE CREEK ROAD)

TYPE OF WORK: WATERLINE RELOCATION



UC-5 NTS END TIP PROJECT B-5614 EXISTING BRIDGE TO BE REMOVED BLOUNTS BAY BEGIN TIP PROJECT B-5614 -L- STA. //+00.00 SR III2 -L- STA. 27+38.88 RDY-5BEGIN BRIDGE RDY-4-L- STA.17+75.13

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



INDEX OF SHEETS

DESCRIPTION: SHEET NO.: TITLE SHEET UTILITY SYMBOLOGY UTILITY NOTES UTILITY DETAILS UC-4 THRU UC-5 UTILITY CONSTRUCTION SHEETS

PROFILE SHEET

1189 20.

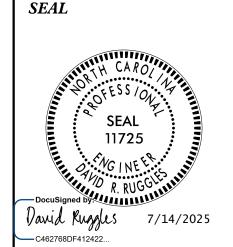
1103/

WATER AND SEWER OWNERS ON PROJECT

(A) WATER - BEAUFORT COUNTY



DAVID RUGGLES, PE CONSULTANT CONTACT #1 AMJAD IBRAHIM, PE CONSULTANT CONTACT #2





DIVISION OF HIGHWAYS UTILITIES UNIT 1555 MAIL SERVICES CENTER RALEIGH NC 27699–1555 PHONE (919) 707–6690

FAX (919) 250-4151

NABIL HAMDAN TEVIN ASAMOAH TANGA SAMPSON

UTILITIES REGIONAL ENGINEER UTILITIES ENGINEER

UTILITIES REGIONAL COORDINATOR TYRON W. STALLINGS UTILITIES COORDINATOR

CONSULTANT CONTACT #3

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

Water Line (Sized as Shown) 11½ 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 REM FH Remove Fire Hydrant Water Meter Relocate Water Meter REM WM 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)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

Thrust Block ·····
Air Release Valve
Utility Vault
Concrete Pier CP
Steel Pier
Plan Note
Pay Item Note
PAY ITEM

EXISTING UTILITIES SYMBOLS

	*
Power Pole ····································	*Underground Power Line
Telephone Pole	*Underground Telephone Cable
Joint Use Pole	*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 ••••••••••••••••••••••••••••••••••••	Aboveground Gas Pipeline
Power Manhole ····································	*Underground Water Line
Telephone Manhole ····································	Aboveground Water Line
Sanitary Sewer Manhole	*Underground Gravity Sanitary Sewer Liness
Hand Hole for Cable	Aboveground Gravity Sanitary Sewer Line A/G Sanitary Sewer
Power Transformer	*Underground SS Forced Main Line
Telephone Pedestal	Underground Unknown Utility Line
CATV Pedestal	SUE Test Hole ····································
Gas Valve ····································	Water Meter
Gas Meter	Water Valve ····································
Located Miscellaneous Utility Object o	Fire Hydrant ····································
Abandoned According to Utility Records AA	TUR Sanitary Sewer Cleanout •••
End of Information E.O	D.I.

*For Existing Utilities						
Utility Line Drawn from Record						
Designated Utility Line						

Manhole

(Sized per Note)

Sewer Pump Station

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 BEAUFORT COUNTY WATER DEPARTMENT. THE UTILITY OWNER CONTACT IS:

ERICK JENNINGS WATER SYSTEMS MANAGER 252-402-6547

- 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.

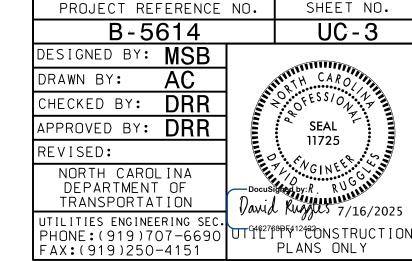
- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR 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.

LIST OF STANDARD DRAWINGS

1515.01 WATER METER

PROJECT SPECIFIC NOTES:

- 1. BEAUFORT COUNTY SHALL OPEN AND CLOSE ALL VALVES.
- 2. IN ADVANCE OF BEGINNING UTILITY WORK SOFT DIGS SHALL BE PERFORMED BY CONTRACTOR TO VERIFY ACTUAL WATER LINE DEPTH AND LOCATION AT PROPOSED TIE-IN LOCATIONS.
- 3. CONTRACTOR SHALL ADHERE TO SECTION 1530 "ABANDON OR REMOVE UTILITIES" FOR ABANDONMENT OF PIPE, UNLESS OTHERWISE SPECIFIED.
- 4. NO INTERRUPTION TO EXISTING SERVICE SHALL TAKE PLACE UNTIL ALL CUSTOMERS HAVE BEEN NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE. NOTICE OF INTERRUPTION SHALL BE PREPARED BY THE PUBLIC WORKS OFFICE ON OFFICIAL LETTERHEAD. CONTRACTOR TO CONTACT BEAUFORT COUNTY'S WATER SYSTEMS MANAGER, ERICK JENNINGS 1 MONTH IN ADVANCE OF ANY WORK TO ALLOW SUFFICIENT TIME TO PREPARE NOTICE OF INTERRUPTION TO AFFECTED CUSTOMERS. DISTRIBUTION TO EACH CUSTOMER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNDER THE DIRECTION OF THE PUBLIC WORKS OFFICE.
- 5. CERTIFIED BACTERIOLOGICAL AND CONTAMINANT TEST SHALL BE PERFORMED BY BEAUFORT COUNTY. IF THE SAMPLE FAILS RECHLORINATE THE WATER LINE AS STATED IN THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 6. USE # 12 AWG COPPER CLAD STEEL WIRE WITH BLUE INSULATION FOR TRACER WIRE. ALLOW BEAUFORT COUNTY TO CONDUCT THE CONTINUITY TEST ONCE THE TRACER WIRES ARE INSTALLED.
- 7. BEAUFORT COUNTY AND THE ENGINEER OF RECORD SHALL BE PROVIDED WITH A DIGITAL CAD FILE COPY OF THE SURVEYED AS-BUILTS OF THE INSTALLED UTILITY. THE AS-BUILTS SHALL INCLUDE NOTIONS OF THE SIZE AND TYPE OF MATERIAL INSTALLED: GPS COORDINATED OF ALL FITTINGS. UTILITY CONTROLS, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE PIPING. INCLUDING DEPTHS OF COVER, PROVIDE COLOR PHOTOGRAPHS FOR ALL TEE AND VALVE CONNECTIONS AND FIRE HYDRANT ASSEMBLIES PRIOR TO PLACING ANY BACKFILL. PHOTOGRAPHS SHALL BE NUMBERED AND KEYED TO THE APPROPRIATE LOCATION ON THE AS-BUILTS DRAWINGS. PROVIDE BORING LOGS FROM THE TRENCHLESS INSTALLATIONS.





UTILITY CONSTRUCTION

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- 8. A 2" OR GREATER TEMPORARY BLOW OFF SHALL BE INSTALLED FOR THE PURPOSE OF DISCHARGING SUPER-CHLORINATED WATER. ALL DISCHARGE SHALL BE DECHLORINATED PRIOR TO DISPOSAL BY THE CONTRACTOR.
- 9. A BEAUFORT COUNTY REPRESENTATIVE SHALL BE PRESENT FOR THE PRESSURE TEST, CHLORINATION, AND FLUSHING OF ALL NEW WATER LINES.
- 10. ALL DUCTILE IRON FITTINGS AND GATE VALVES ARE TO BE MECHANICAL JOINT AND INSTALLED WITH GRIPPING RINGS.
- 11. ALL SERVICE CONNECTIONS TO BE ONE-INCH DIAMETER IPS SIDR7 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

PROJECT TYPICAL DETAILS

B-5	614		UC-3A
DESIGNED BY:	DRR		MIIII A
DRAWN BY:	AC	, si	TH CARO
CHECKED BY:	ΑI		O FESSION I
APPROVED BY:	DRR		SEAL SEAL
REVISED:			11725
NORTH CAROL DEPARTMENT TRANSPORTA	OF	Docusii Danid	Shorty: R. RUGULLAND RUGUL
UTILITIES ENGINEE PHONE: (919)70 FAX: (919)250-	07-6690	U7 ^C f ⁶²⁷ f	PLANS ONLY

PROJECT REFERENCE NO.

SHEET NO.

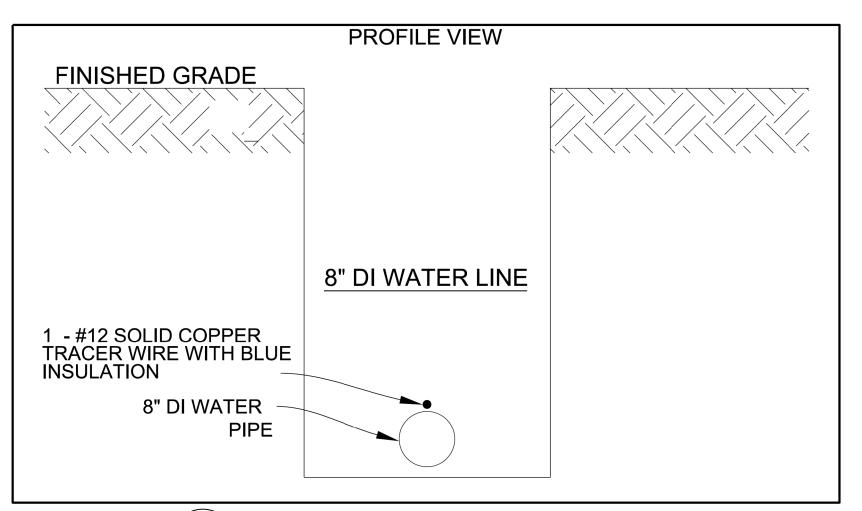


UTILITY CONSTRUCTION

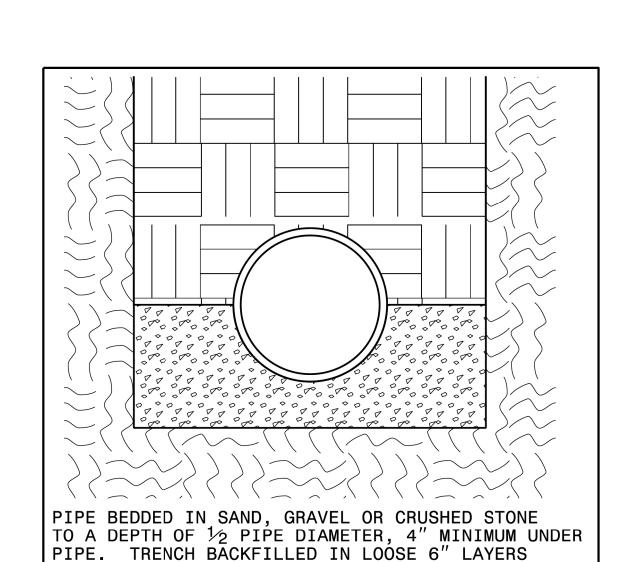
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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		

1 MAXIMUM TRENCH WIDTH AT TOP OF PIPE



2 1 - #12 COPPER CLAD STEEL TRACER WIRE WITH BLUE INSULATION



PIPE BEDDING DETAIL

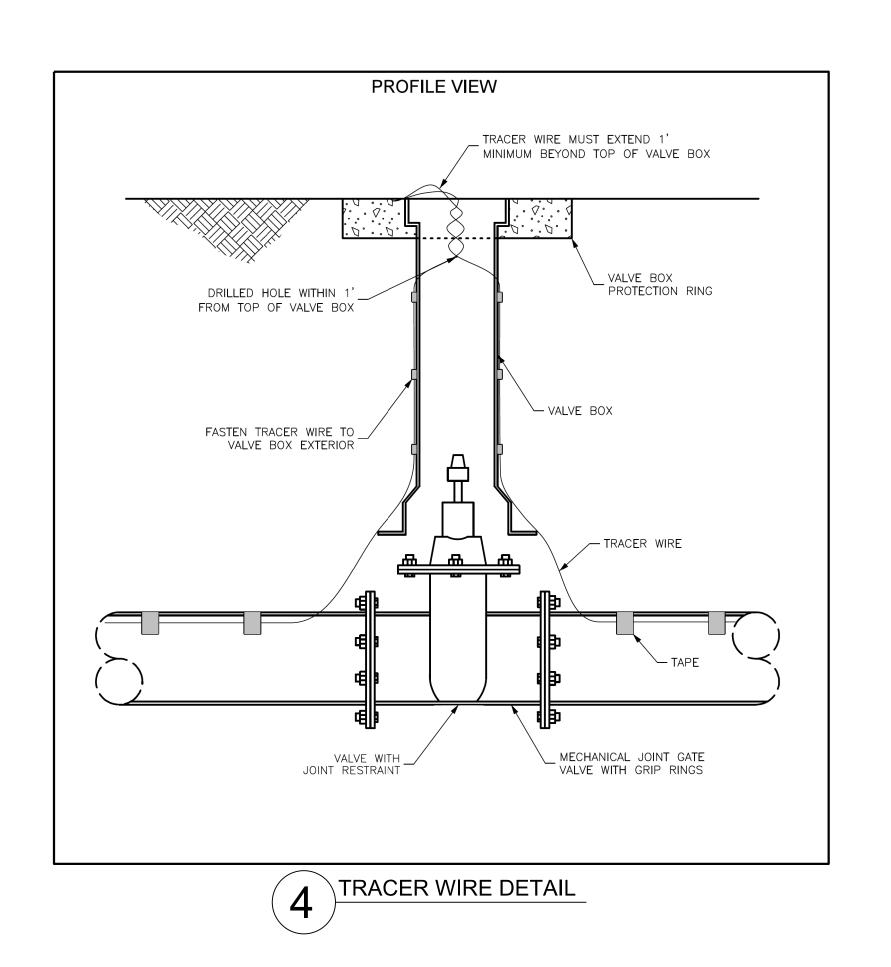
COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT

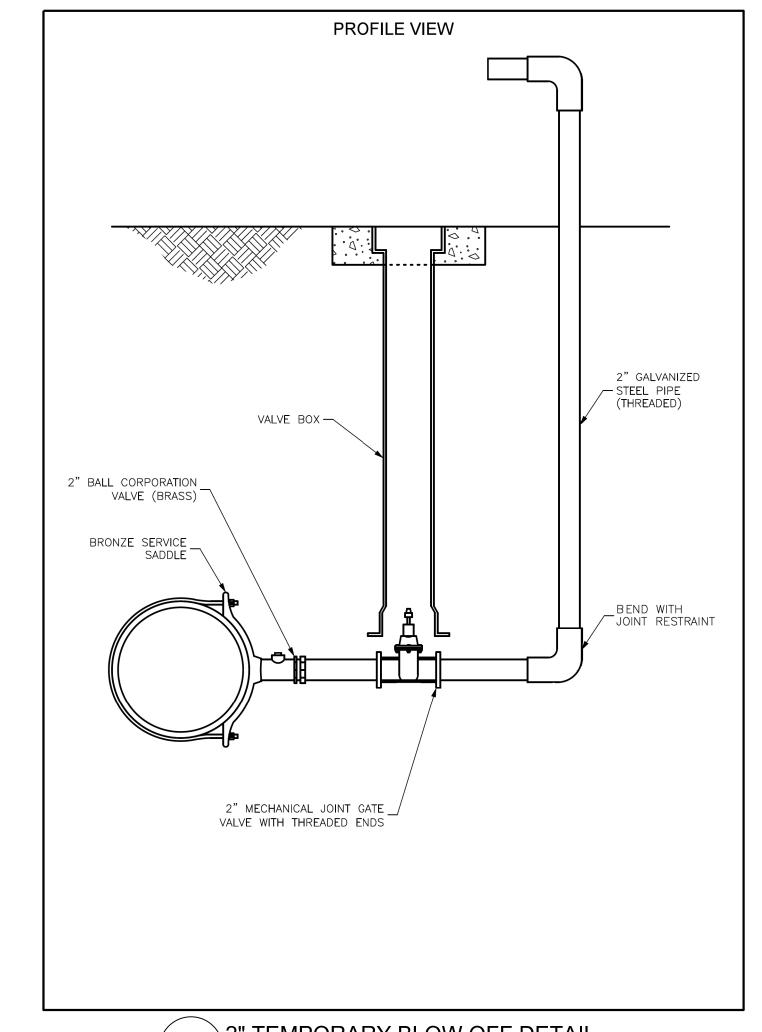
MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION

SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE

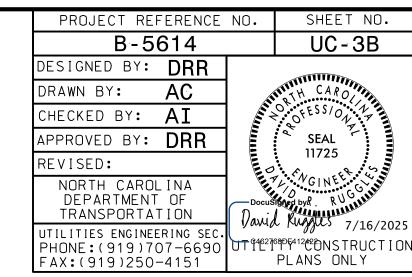
WITH AASHTO T-99 AS MODIFIED BY THE

DEPARTMENT OF TRANSPORTATION.





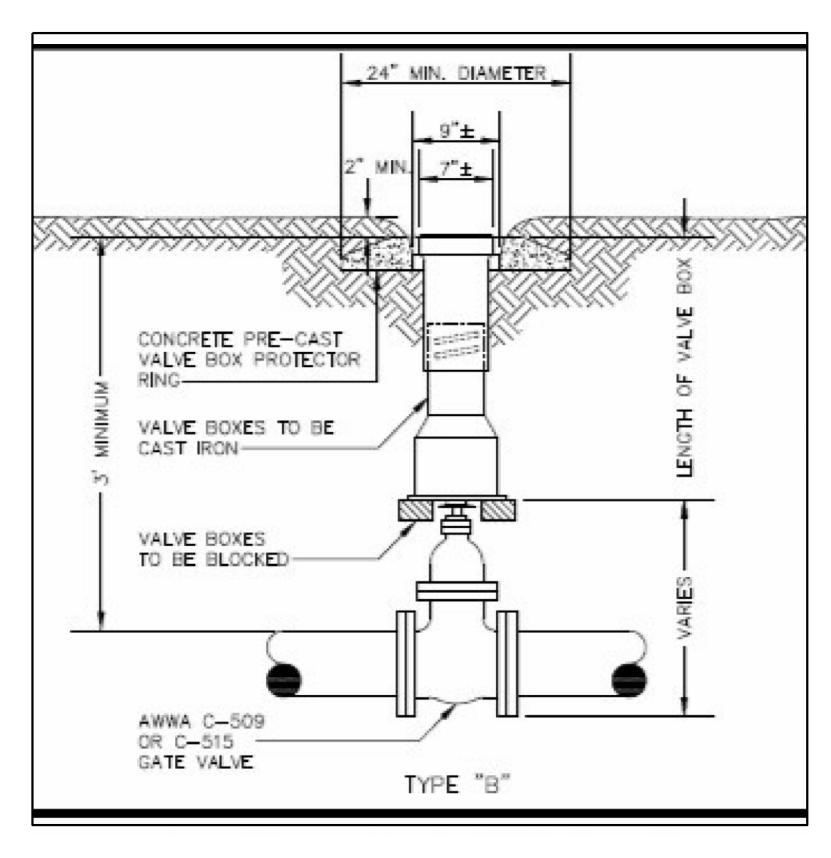
5 2" TEMPORARY BLOW OFF DETAIL



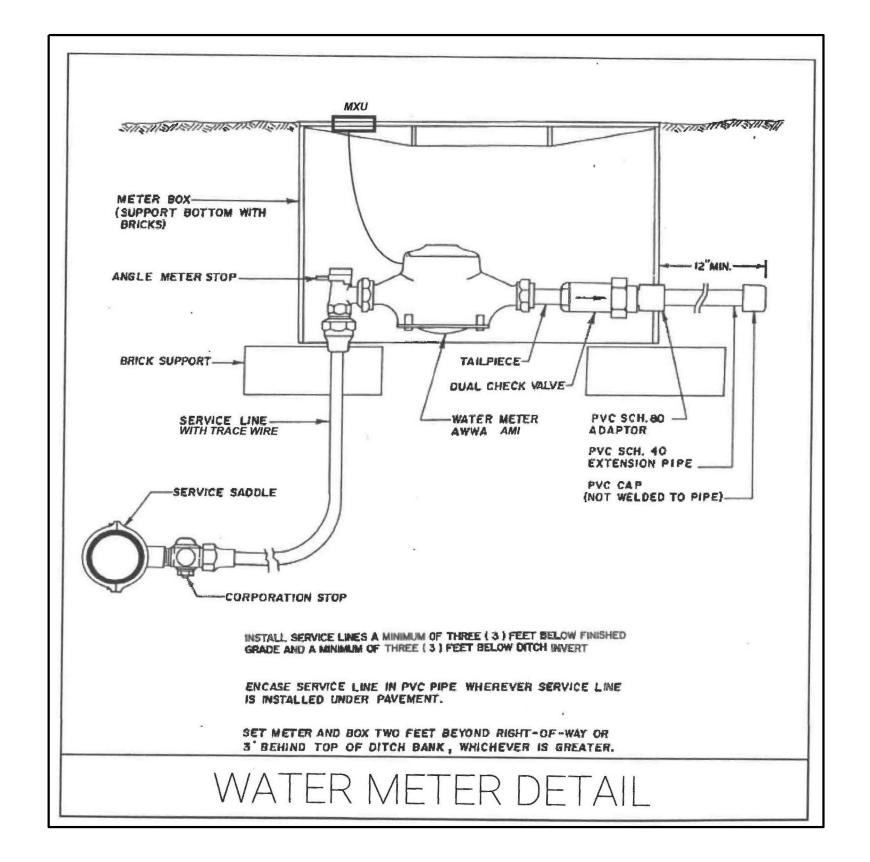


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7 WATER METER DETAIL

