STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UC-1

SHEET NO.

U-3422A

T.I.P. NO.

# Gates Four Golf Course BEGIN PROJECT

VICINITY MAP
(NOT TO SCALE)

C.W. Coiler

# UTILITY CONSTRUCTION PLANS CUMBERLAND COUNTY

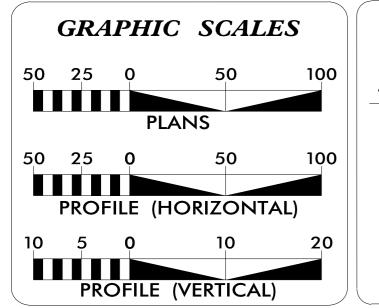
LOCATION: SR 1003 (Camden Road) from Future I-295 (Fayetteville Outer Loop) To NC 59 (Hope Mills Road)

WATER AND SEWER RELOCATION TYPE OF WORK:

FINAL PLANS: PHASE A

BEGIN TIP PROJECT U-3422A **BEGIN CONSTRUCTION** -L-STA.29+13.20END TIP PROJECT U-3422-PHASE A END CONSTRUCTION -L-STA.114 + 75.00END CONSTRUCTION -Y1- STA. 24+15.00 *UC-5 UC*–6 *UC-7 UC-8* TO HOKE COUNTY -L- SR 1003 (CAMDEN RD.) *UC-7A* BEGIN CONSTRUCTION -Y2-STA. 11 + 61.34

> DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED



#### INDEX OF SHEETS

SHEET NO.: **DESCRIPTION:** TITLE SHEET UTILITY SYMBOLOGY **NOTES** UC-3A THRU UC-3H **DETAILS** UC-4 THRU UC-10 UTILITY CONSTRUCTION PLAN SHEETS UC-20 THRU UC-27 UTILITY CONSTRUCTION PROFILE SHEETS

#### WATER AND SEWER OWNERS ON PROJECT

(2) SANITARY SEWER: FAYETTEVILLE PWC





(919)) 325–3594

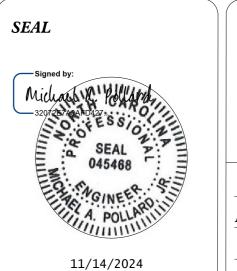
HEATHER HARKENRIDER, PE

SAM MILLER, EI

MICHAEL A. POLLARD, PE

CONSULTANT CONTACT #

PROJECT ENGINEER PROJECT DESIGN **ENGINEER** PROJECT NUMBER





**DIVISION OF HIGHWAYS DIVISION 6 UTILITIES UNIT** FAYETTEVILLE NC 28301 PHONE (910) 364–0834 CELL (910) 568-7342

UTILITIES REGIONAL ENGINEER

RICK HANDLIN

JOHN WALTERS

UTILITIES ENGINEER

UTILITIES AREA COORDINATOR UTILITIES COORDINATOR

(1) WATER: FAYETTEVILLE PWC

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### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CDM Smith Inc.
5400 Glenwood Avenue
Suite 400
Raleigh, NC 27612-3228
NC COA No. F-1255

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Temporary Utility Easement

Thrust Block

Utility Vault

Concrete Pier

Air Release Valve

PROJECT REFERENCE NO. SHEET NO. UC-2

or

# UTILITIES PLAN SHEET SYMBOLS

Power Pole

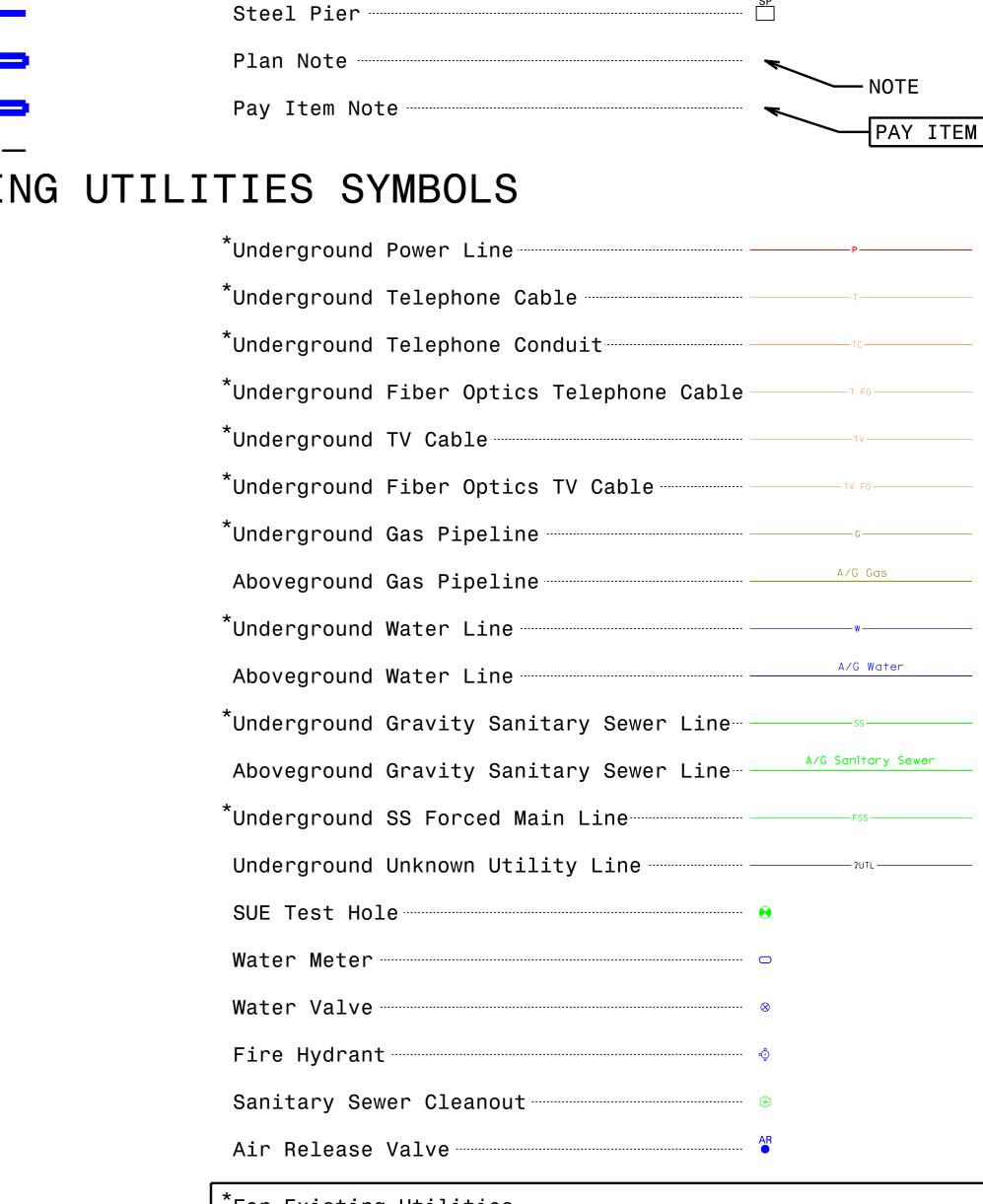
#### PROPOSED WATER SYMBOLS

# PROPOSED MISCELLANOUS UTILITIES SYMBOLS

PROPOSED WATER	SYMBULS
Water Line (Sized as Shown)	12" WL
11½ Degree Bend	+-+
22½ Degree Bend	+
45 Degree Bend	+×
90 Degree Bend	<del>ل</del> ـــ
Plug	
Tee	+#+
Cross	··· + <del>‡+</del>
Reducer	
Gate Valve	GV
Butterfly Valve	BV
Tapping Valve	TGV
Line Stop	LS
Line Stop with Bypass	LS/BP 
Blow Off	B0
Fire Hydrant	PFH
Relocate Fire Hydrant	<b>BEH</b>
Remove Fire Hydrant	REM FH
Water Meter	PWM 
Relocate Water Meter	RWM 
Remove Water Meter	REM WM
Water Pump Station	<mark>PS(W)</mark>
RPZ Backflow Preventer	··· PRPZ
DCV Backflow Preventer	··· PBFP
Relocate RPZ Backflow Preventer	··· RRPZ
Relocate DCV Backflow Preventer	··· RBFP
PROPOSED SEWER	SYMBOLS
Gravity Sawar Lina	12" SS
Gravity Sewer Line(Sized as Shown)	
(Sized as Shown)  Force Main Sewer Line (Sized as Shown)	12" FSS

Sewer Pump Station

Telephone Pole	<b>-</b>
Joint Use Pole	- <b>ò</b> -
Telephone Pedestal	TEL PED
Utility Line by Others(Type as Shown)	PROP O/H POW LINES
Trenchless Installation	12" TL INSTALL
Encasement by Open Cut	24" FNCAS RY OC
Encasement	24" ENCASEMENT
Proposed Utility Easement	- PUE
Power Pole	•
Telephone Pole	
Joint Use Pole	<b>-</b>
Utility Pole	•
Utility Pole with Base	•
H-Frame Pole	•—•
Power Transmission Line Tower	
Water Manhole	3
Power Manhole	<b>©</b>
Telephone Manhole	<b>⊝</b>
Sanitary Sewer Manhole	<b>(h</b>
Hand Hole for Cable	H
Power Transformer	
Telephone Pedestal	T
CATV Pedestal	
Gas Valve	<b>♦</b>
Gas Meter	<b>♦</b>
Located Miscellaneous Utility Object	$\odot$
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.



# **CDM**

CDM Smith Inc. 5400 Glenwood Avenue

DOCUMENT NOT CONSIDERED FINAL INLESS ALL SIGNATURES COMPLETED

UC-3 ESIGNED BY: SSM HECKED BY: PPROVED BY: MAP NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC PHONE: (919)707-6690 FAX: (919)250-4151 UTILITY CONSTRUCTI PLANS ONLY

#### UTILITY CONSTRUCTION

EVISED:

7. UTILITY CONSTRUCTION NOTE SHEETS PROVIDE SEQUENCE OPTIONS FOR THE CRITICAL INSTALLATIONS AND KILL OUTS OF THE PROPOSED WATER AND SEWER LINES. CONTRACTOR SHALL PROVIDE A CONSTRUCTION SEQUENCE FOR ALL WATER LINE AND SEWER LINE SEGMENTS AND KILLOUTS PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY ENGINEER. CONTRACTOR SHALL UPDATE CONSTRUCTION SEQUENCES WHERE ACTUAL CONDITIONS REQUIRE AJDUSTMENTS OR ALTERATIONS TO THE PLANNED WORK. CONSTRUCTION SEQUENCE OPTIONS THAT ARE PROVIDED ARE INTENDED TO MINIMIZE IMPACTS TO WATER AND SEWER OPERATIONS. INSTALLATION SHALL NOT BEGIN UNTIL AN APPROVED SEQUENCE PLAN IS IN PLACE.

8. ANY REFERENCE TO THE FAYPWC COORDINATOR OR PWC COORDINATOR SHALL BE INTERPRETED AS A REFERENCE TO THE ENGINEER.

#### **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 AND THE SPECIAL PROVISIONS TO NCDOT SPECS.
- 2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO FAYETTEVILLE PWC.
- 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. FAYETTEVILLE PWC 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 KNOWN 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.

1. ALL PROPOSED WATER LINE 2" IN DIAMETER SHALL BE SDR21, PRESSURE CLASS 200 IN ACCORDANCE WITH ASTM D 2241 OR SDR-17 WITH A PRESSURE RATING OF 250 PSI, IN ACCORDANCE WITH ASTM D-224. ALL PROPOSED WATER LINE 4"-12" IN DIAMETER SHALL BE DI (DUCTILE IRON PUSH-ON) PC 350 PIPE, UNLESS SPECIFIED

PROJECT SPECIFIC NOTES:

- TO BE RESTRAINED JOINT PIPE AND/OR SPECIAL THICKNESS CLASS AS SHOWN ON THE PLAN/PROFILE. ALL PROPOSED WATERLINE LINE 16" IN DIAMETER AND LARGER SHALL BE DI (DUCTILE IRON PUSH-ON) PC 250 PIPE. UNLESS SPECIFIED TO BE RESTRAINED JOINT PIPE AND/OR SPECIAL THICKNESS CLASS AS SHOWN ON THE PLAN/PROFILE.
- 2. ALL PROPOSED GRAVITY SEWER LINES 12" IN DIAMETER AND SMALLER SHALL BE PROTECTO 401 LINED DI (DUCTILE IRON PUSH ON) PC 350 PIPE UNLESS OTHERWISE SPECIFIED. ALL PROPOSED GRAVITY SEWER LINES 16" IN DIAMETER AND GREATER SHALL BE PROTECTO 401 LINED DI (DUCTILE IRON PUSH ON) PC 250, UNLESS OTHERWISE SPECIFIED.
- 3. 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.
- 4. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.
- 5. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL FAYETTEVILLE PWC AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
- 6. TEMPORARY SHORING IF REQUIRED FOR BUILDING FOUNDATION PROTECTION OR MAINTENANCE OF TRAFFIC WILL BE PAID AS TEMPORARY SHORING IN SQUARE FEET BELOW GROUND SURFACE. THIS REQUIREMENT IS APPLICABLE TO ALL UTILITY CONSTRUCTION SHEETS.

ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO

- CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
- CONSTRUCTION STAKING IS REQUIRED FOR ALL FAYPWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NO PLS, SHALL BE PROVIDED TO THE FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR FAYPWC WATER AND SEWER UTILITIES.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOE SITE. CONSTRUCTION ON FAYPWC WATER AND SEWER UTILITIES CANNOT BEGIN UNTIL THE CONTRACTOR POSSESSES, ON SITE, A SIGNED AND SEALED CUT SHEET FROM THE PROFESSIONAL LAND SURVEYOR.
- ALL NEW WATER AND SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE TESTED AND/OR DISINFECTED IN ACCORDANCE WITH FAYPWC STANDARDS PRIOR TO PLACING INTO
- CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYPWC PROJECT
- CONTRACTOR SHALL REPAIR ALL WATER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT IMMEDIATELY ALL WATER MAIN AND LATERAL BREAKS TO THE FAYPWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE REPAIRS IN ACCORDANCE WITH FAYPWC STANDARDS. CONTRACTOR SHALL NOT OPERATE FAYPWC WATER MAIN VALVES WITHOUT FAYPWC APPROVAL AND SHALL COORDINATE ALL VALVE
- THE CONTRACTOR SHALL NOT USE HOUSE HOSE BIBBS OR ANY OTHER METHOD OF BLOW OF WHICH ALLOWS DOMESTIC WATER CONTAINING SEDIMENTS OR HIGH LEVELS OF CHLORINE TO PASS THRU RESIDENT'S METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM ALLOWING "BINTY" WATER TO ENTER RESIDENT'S PLUMBING SYSTEM, SUCH AS WATER HEATERS, STAINED CLOTHING, CLOGGED SCREENS, ETC.
- TRANSFER OF WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
- INSTALL, TEST AND STERILIZE NEW MAIN AND LATERALS. LATERALS SHALL BE INSTALLED 18" INSIDE RIGHT-OF-WAY UNLESS OTHERWISE DIRECTED BY FAYPWO TRANSFER EXISTING METER TO NEW METER BOX AND TIE NEW WATER LATERAL TO EXISTING DOMESTIC SERVICE UTILIZING BRASS FITTINGS. SAME METER NUMBER SHALL BE INSTALLED ON SAME ADDRESS AND/OR CUSTOMER. BLOW OFF SERVICE AT HOSE BIBB ON HOUSE ONLY AFTER METER HAS BEEN
- C. AFTER ALL SERVICES ARE TRANSFERRED TO THE NEW SYSTEM. SHUT OFF VALVE
- TAYPWC REQUIREMENTS.

  D. CONTRACTOR SHALL SUPPLY NEW METER BOXES AND DISPOSE OF EXISTING

DWG. NO. W.1 DWG. BY: FAYPWC

DATE: JULY 01, 2024 APPROVED BY: M.M.M.

WATER UTILITY NOTES

11 CONTRACTOR SHALL ARANDON ("KILL-OLIT") ANY EXISTING WATER SERVICES THAT WILL NOT BE UTILIZED BY CUTTING THE SERVICE AT THE MAIN, PLUGGING THE CORPORATION, AND TURNING OFF THE CORPORATION AT THE METER BOX, THE ABANDONED SERVICE IS TO BE CUT OR CRIMPED, AND BURIED A MINIMUM OF 3 FEET

12. ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE, IN ACCORDANCE WITH FAYPWC REQUIREMENTS.

ALL WORK ON FAYPWC WATER UTILITIES (MAINS, LATERALS, ETC) SHALL BE PERFORMED ALL WORN ON FATEW WHITEN DITTIES (WAINS, LATERALE, ETC) STAIL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON FAYPWC WATER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH FAYPWC REQUIREMENTS.

A. LATERAL SEPARATION OF SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWER MAIN/LATERAL, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT LATERAL SEPARATION - IN WHICH CASE: . THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTO

- OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL: OR ii. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER MAIN/LATERAL WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN/LATERAL
- CROSSING A WATER MAIN OVER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MAIN/LATERAL, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER
- CROSSING WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN/LATERAL, A MINIMUM OF 18-INCHES OF SEPARATION SHALL BE PROVIDED. BOTH THE WATER MAIN AND THE SEWER MAIN/LATERAL SHALL BE CONSTRUCTED OF DUCTILE IRON MATERIAL AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE POINT OF CROSSING, A SECTION OF WATER MAIN DIDER OLD THE POINT OF CROSSING. PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

REVISION

06/01/21 ADDED NOTES 1-7 AND RENUMBERED

01/01/18 ADDED NOTES 6, 8

11/23 REVISED NOTES 10 14

W1-WATER-UTILITY-NOTES.dwg

D. <u>CROSSING STORM DRAINAGE LINES:</u> A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN A WATER LINE CROSSING OVER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IN ADDITION, THREE AND A HALF (3.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN OR IT SHALL BE DUCTILE IRON. IF DUCTILE IRON PIPE IS USE WATER MAIN ON A HALF (2.5) FEET OF COVER MUST BE MAINTAINED OVER THE THEN TWO AN A HALF (2.5) FEET OF COVER MUST BE MAINTAINED OVER THE WATER MAIN AND A MINIMUM OF 12-INCHES OF VERTICAL CLEARANCE SHAL BE MAINTAINED BETWEEN THE WATER MAIN AND THE STORM DRAINAGE LINE WHERE A WATER MAIN CROSSES UNDER A STORM DRAINAGE LINE THE MINIMUM OF TWELVE (12) INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED AND THE WATER MAIN SHALL BE DUCTILE IRON FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING.

WATER OUTAGES: THE CONTRACTOR SHALL SCHEDULE A COORDINATION MEETING WITH THE FAYPWC PROJECT COORDINATOR AND PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO ANY PLANNED WATER OUTAGE. THE OORDINATION MEETING SHALL BE CONDUCTED PRIOR TO ANY NOTICES BEING COORDINATION MEET ING SHALL BE CONDUCTED PRIOR TO ANY NOTICES BEING ISSUED. ADDITIONALLY, THE CONTRACTOR SHALL LOCATE (VERTICALLY AND HORIZONTALLY) ANY UTILITIES WITHIN THE WORK AREA, IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS. THE LOCATIONS OF ALL UTILITIES WITHIN THE WORK AREA SHALL BE DETERMINED PRIOR TO THE COORDINATION MEETING. ANY CONFLICTS WITH THE PENDING WORK AND THE EXISTING UTILITIES SHALL BE IDENTIFIED AND A PLAN FOR RESOLVING ANY CONFLICTS SHALL BE PRESENTED.
THE PURPOSE OF THIS COORDINATION MEETING IS TO ENSURE THAT THE
CONTRACTOR HAS A GOOD UNDERSTANDING OF THE REQUIREMENTS RELATED TO THE PENDING OUTAGE. VERIFY THAT THERE ARE NO UTILITY CONFLICTS THAT WILL PREVENT THE WORK FROM BEING COMPLETED, ALL EQUIPMENT IS IN GOOD WORKING ORDER, ALL EQUIPMENT IS FUNCTIONAL, ALL MATERIALS ARE ON SITE, ALL NECESSARY TOOLS ARE ON SITE, DISCUSS ANY NECESSARY CONTINGENCY PLANS, AND ANY OTHER ITEMS NECESSARY TO ENSURE THAT THE FAYETTEVILLE PUBLIC WORKS COMMISSION HAS CONFIDENCE THAT THE WORK CAN BE ACCOMPLISHED WITHIN THE GIVEN TIME PERIOD. SHOULD, FOR ANY REASON, THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEM THAT THE CONTRACTOR IS NOT PREPARED FOR THE PROPOSED OUTAGE, THE OUTAGE NOTIFICATIONS WILL NOT BE DISTRIBUTED AND THE OUTAGE SHALL BE POSTPONED A MINIMUM OF TWO (2)
WEEKS. THE FAYETTEVILLE PUBLIC WORKS COMMISSION WILL PROVIDE WRITTEN NOTIFICATION TO THE CONTRACTOR OF THIS DECISION. NO ADDITIONAL CONTRAC TIME WILL BE GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME EXPIRE WITHIN THAT TWO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS LIQUIDATED DAMAGES, AS

OUTLINED IN THESE CONTRACT DOCUMENTS.

SHEET NO 2 OF 2

ONCE THE WATER OUTAGE NOTIFICATIONS HAVE BEEN ISSUED. A FOLLOW-UP COORDINATION MEETING WITH THE FAYPWC PROJECT COORDINATOR AND PROJECT ENGINEER SHALL BE HELD A MINIMUM OF 24 HOURS PRIOR TO THE SCHEDULED THE PURPOSE OF THIS MEETING IS TO VERIFY THAT THE CONTRACTOR IS PREPARED TO PROCEED WITH THE OUTAGE, AND THAT ALL EQUIPMENT, MATERIALS, TOOLS, AND ALL OTHER INCIDENTALS ARE ON THE PROJECT SITE AND FUNCTIONIN IF FOR ANY REASON THE FAYETTEVILLE PUBLIC WORKS COMMISSION DEEMS THAT THE CONTRACTOR IS NOT PREPARED, THE OUTAGE SHALL BE POSTPONED AND ALL CUSTOMERS IMMEDIATELY NOTIFIED OF THE CANCELLATION. THE OUTAGE SHALL BE OSTPONED A MINIMUM OF TWO (2) WEEKS. NO ADDITIONAL CONTRACT TIME WILL E GRANTED FOR THIS DELAY. SHOULD THE CONTRACT TIME WILL WO (2) WEEK PERIOD, THE FAYETTEVILLE PUBLIC WORKS COMMISSION RESERVES THE RIGHT TO ASSESS LIQUIDATED DAMAGES, AS OUTLINED IN THESE CONTRACT

THE CONTRACTOR SHALL COMPLETE THE REQUIRED WORK AND RESTORE WATER SERVICE WITHIN THE GIVEN TIME PERIOD FOR THE OUTAGE. IF THE FAYPWC PROJECT COORDINATO DETERMINES THAT THE CONTRACTOR WILL NOT RESTORE WATER SERVICE WITHIN THE APPROVED TIMEFRAME, THE FAYPWC PROJECT COORDINATOR WILL DIRECT THE CONTRACTOR ON HOW TO RESTORE WATER SERVICE. THE CONTRACTOR SHALL ADHERE TO ALL INSTRUCTIONS GIVEN BY THE FAYPWC PROJECT COORDINATOR.

SHOULD THE CONTRACTOR FAIL TO COMPLETE THE WORK WITHIN THE ALLOTTED TIME. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL ASSESS A PENALTY OF \$500 PER 15-MINUTE INTERVAL OR ANY PORTION THEREOF UNTIL WATER SERVICE IS RESTORED. THIS PENALTY WILL BE DEDUCTED FROM THE CONTRACTOR'S PAY APPLICATION OR BE BILLED DIRECTLY TO THE CONTRACTOR. THE PENALTY MAY BE WAIVED FOR CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, AS DEEMED BY THE FAYETTEVILLE PUBLIC WORKS COMMISSION. THE FAYPWC PROJECT COORDINATOR AND/OR PROJECT ENGINEER RESERVE THE RIGHT TO CANCEL OR POSTPONE THE OUTAGE AT ANY GIVEN TIME, IF DEEMED NECESSARY.

**FAYETTEVILLE** WATER UTILITY NOTES PUBLIC WORKS COMMISSION 01/01/18 ADDED NOTES 6, 8 FAYETTEVILLE, N.C. DWG. NO. W.1 DWG. BY: FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT DATE: JULY 01, 2024 APPROVED BY: M.M.M. REVISED NOTES 10. 14

REVISION 06/01/21 ADDED NOTES 1-7 AND RENUMBERED W1-WATER-UTILITY-NOTES.dwg

W3-SPLIT-WLAT.dwg

CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-3228 NC COA No. F-1255

UNLESS ALL SIGNATURES COMPLETED

RAWN BY: DOCUMENT NOT CONSIDERED FINAL

UC-03A U-3422 ESIGNED BY: SSM Michaelin Pollars SSM —32072E7A3AF0457 S S HECKED BY: HMH SEAL APPROVED BY: MAP 045468 SINGINEER. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITY CONSTRUCTION

PLANS ONLY

SHEET NO.

UTILITY CONSTRUCTION

PROJECT REFERENCE NO.

REVISED:

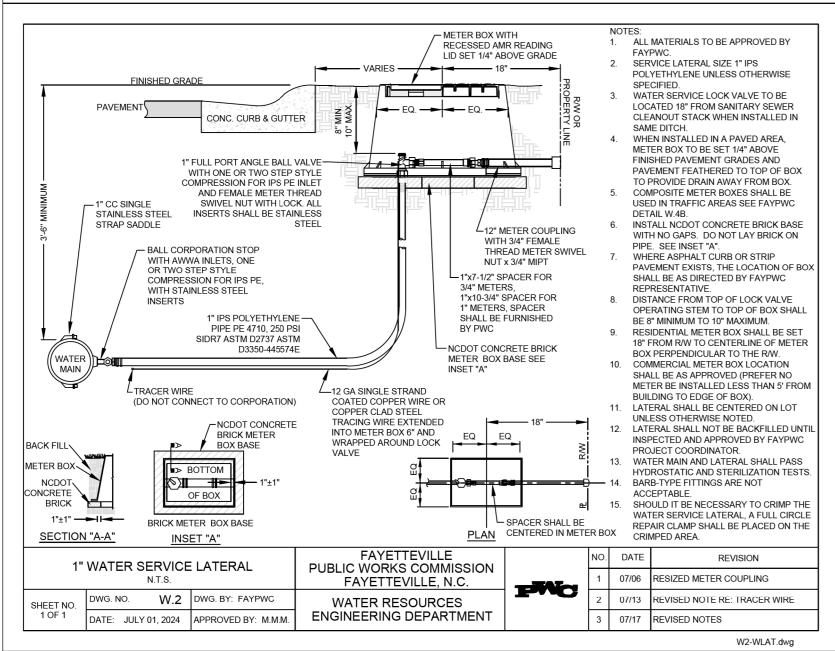
JTILITIES ENGINEERING SEC

PHONE:(919)707-6690

FAX: (919)250-4151

NOTE:

ANY REFERENCE TO FAYPWC PROJECT COORDINATOR, PWC COORDINATOR OR FAYPWC (FAYETTEVILLE PUBLIC WORKS COMMISSION) SHALL BE INTERPRETTED AS A REFERENCE TO THE ENGINEER.



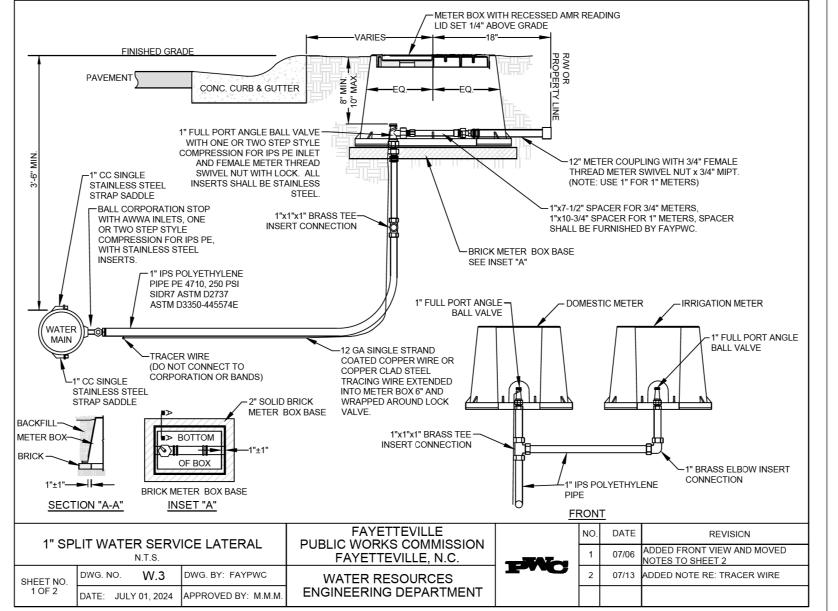
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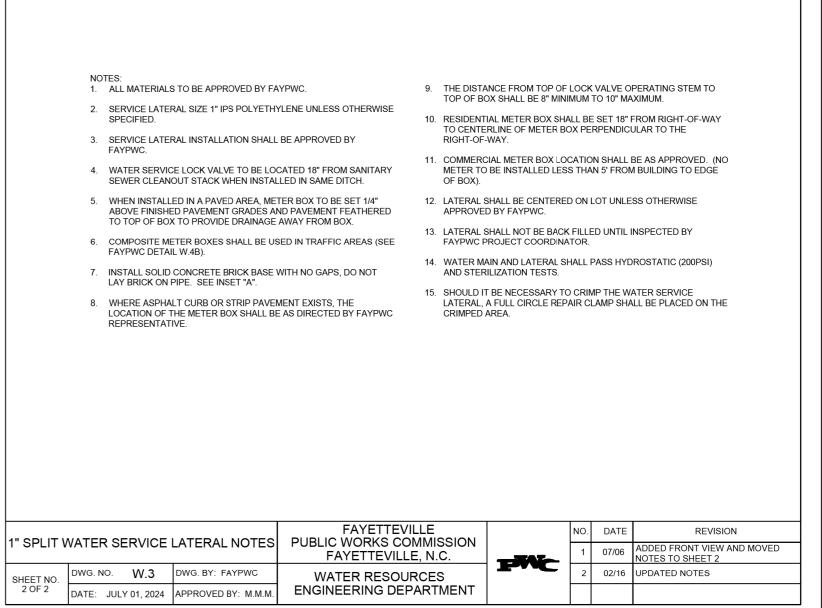
PUBLIC WORKS COMMISSION

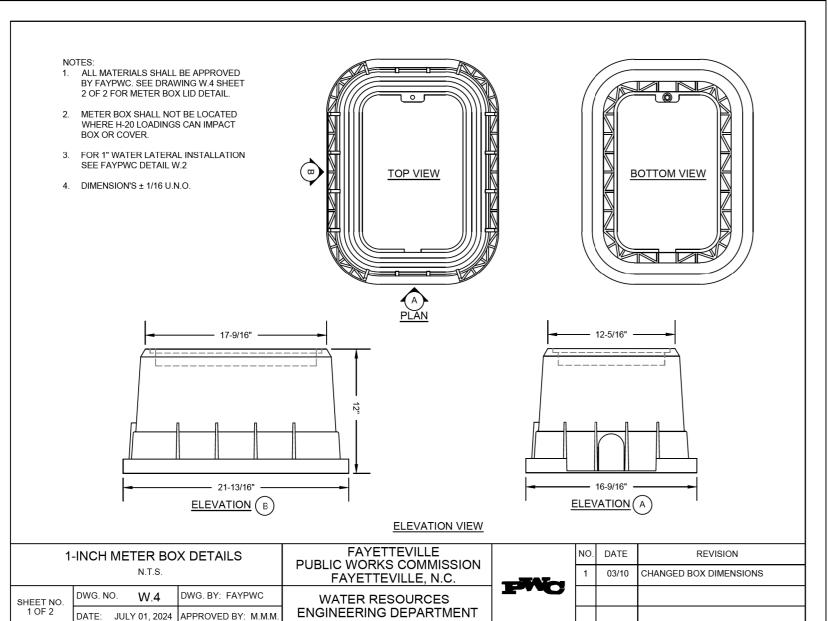
FAYETTEVILLE, N.C.

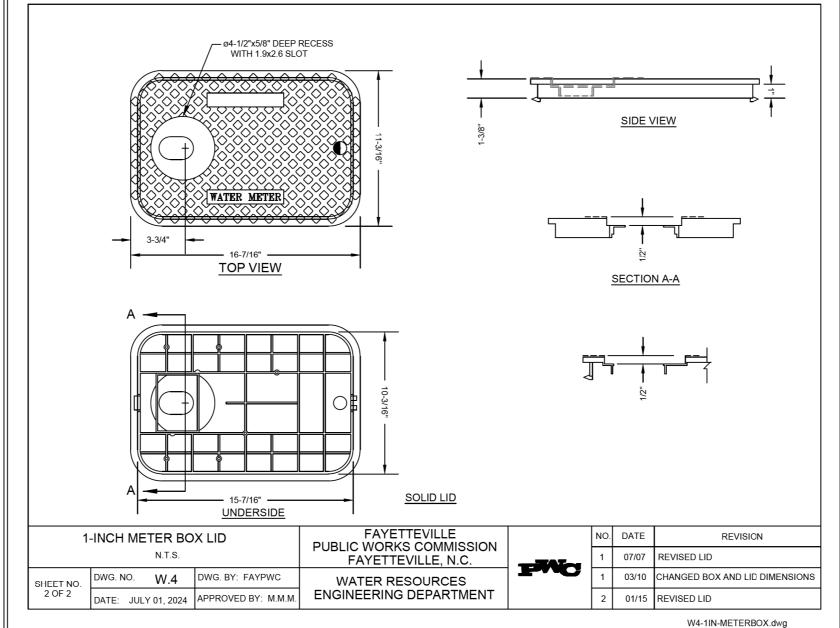
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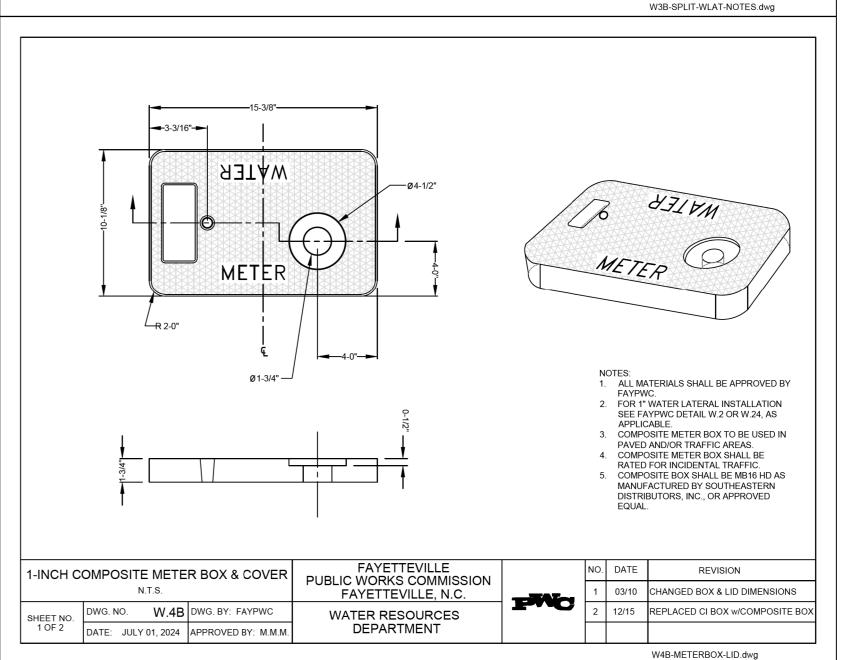
ENGINEERING DEPARTMENT



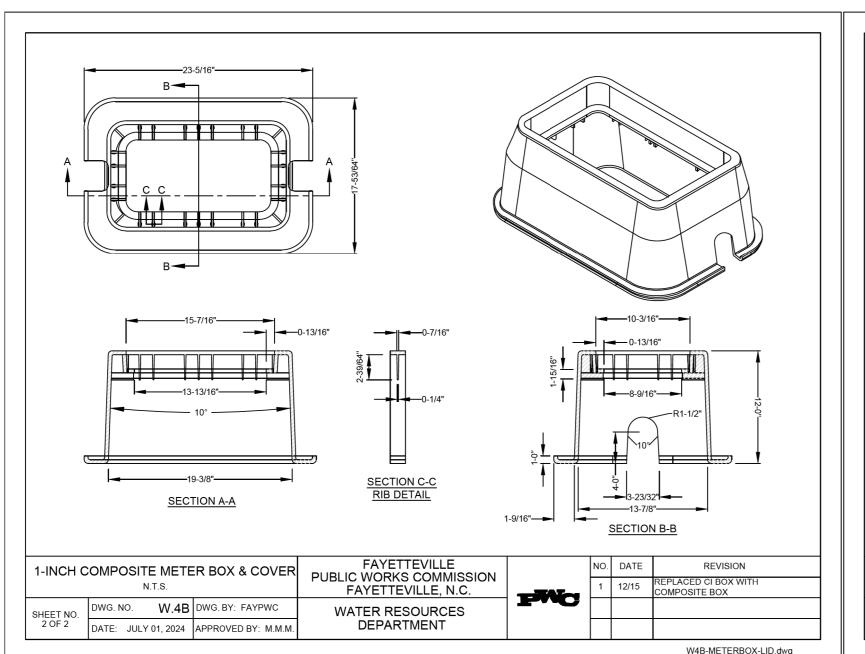


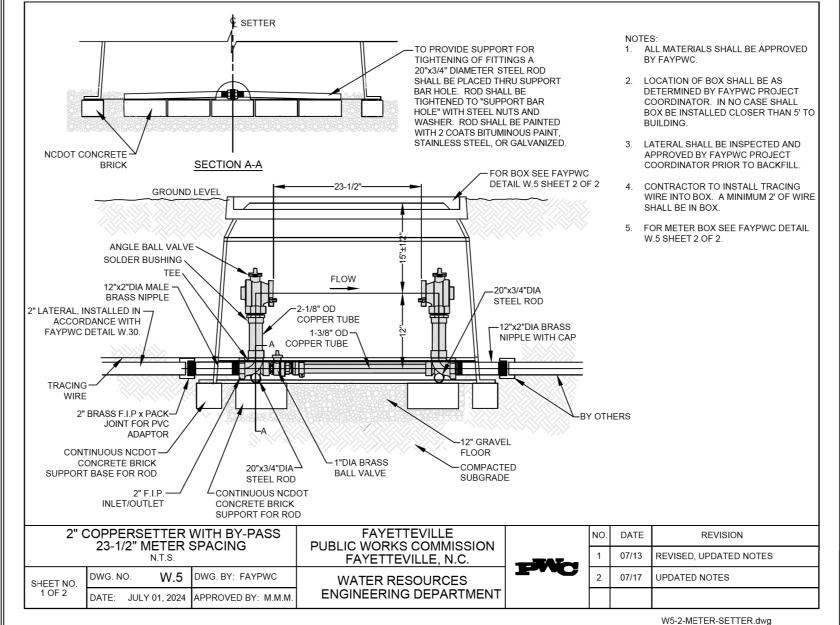


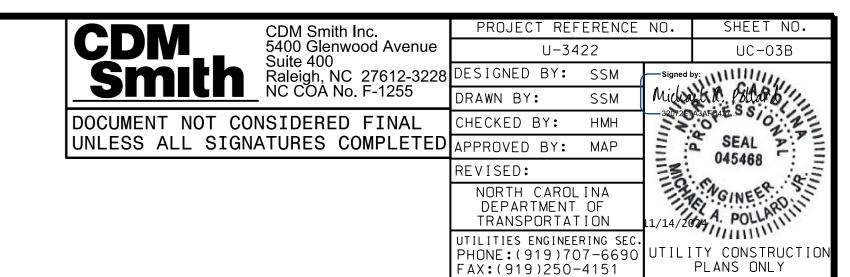




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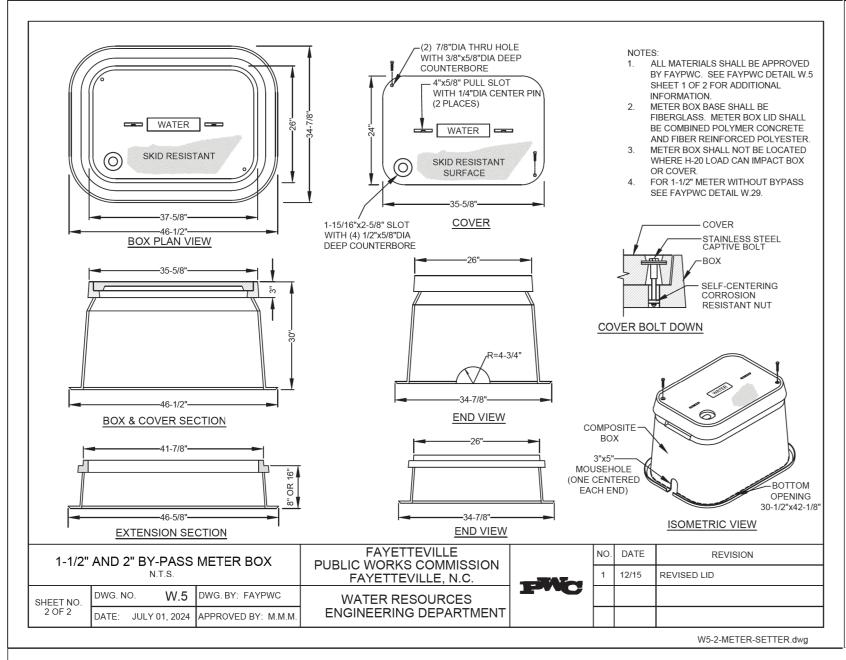


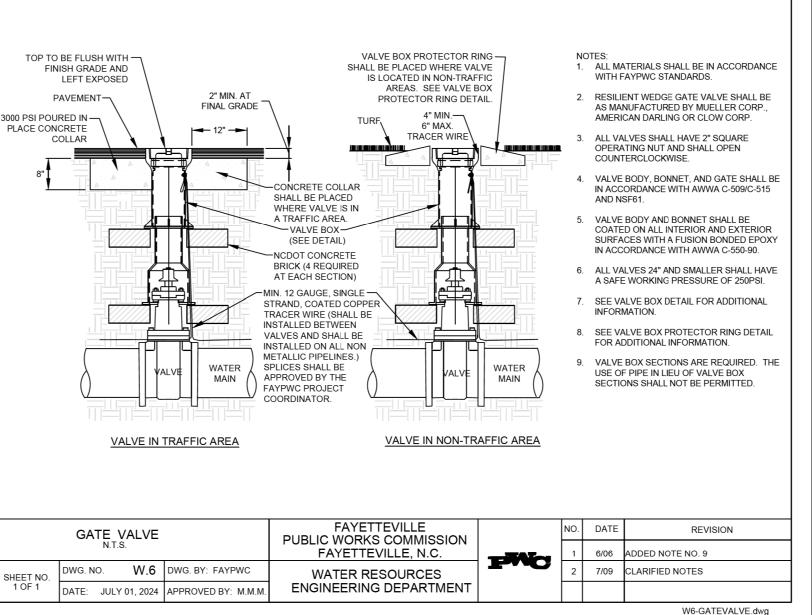


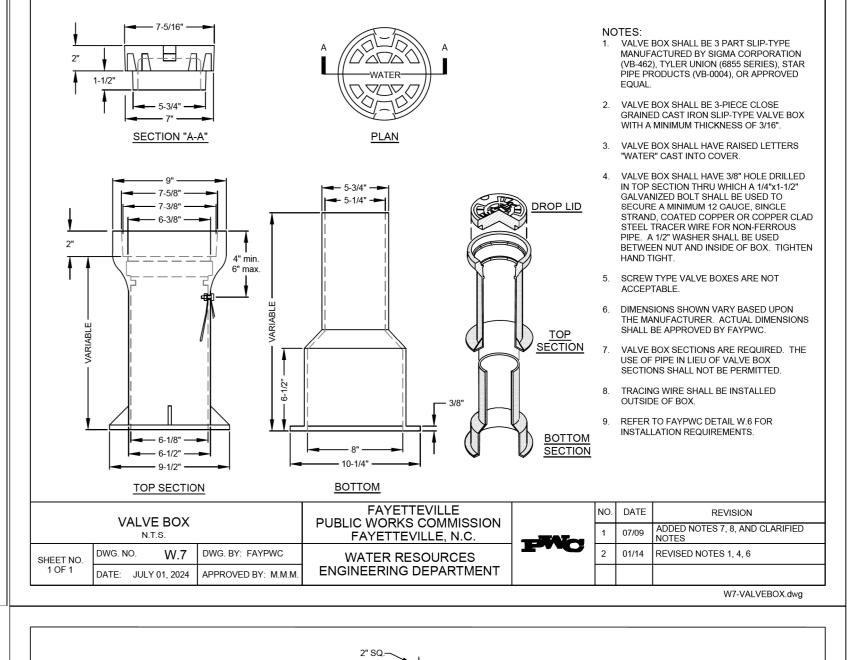


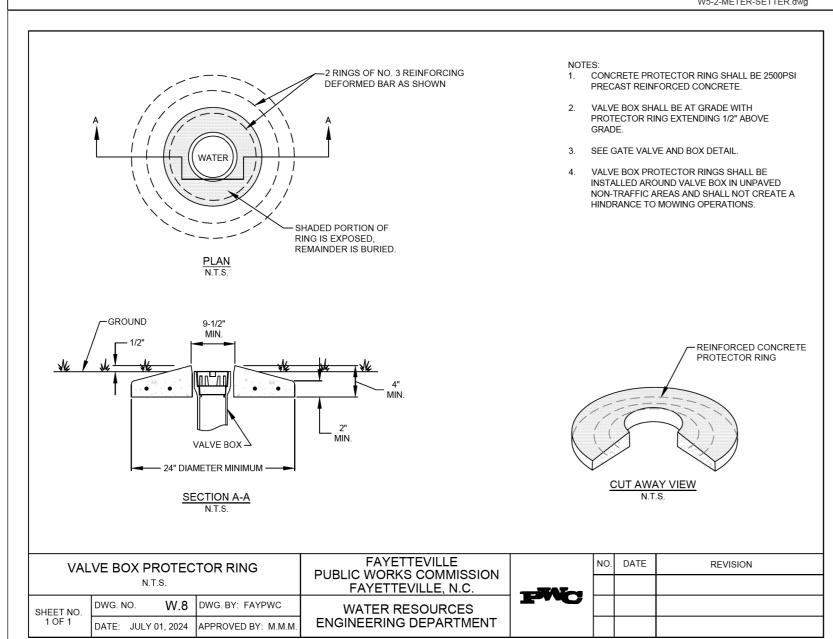
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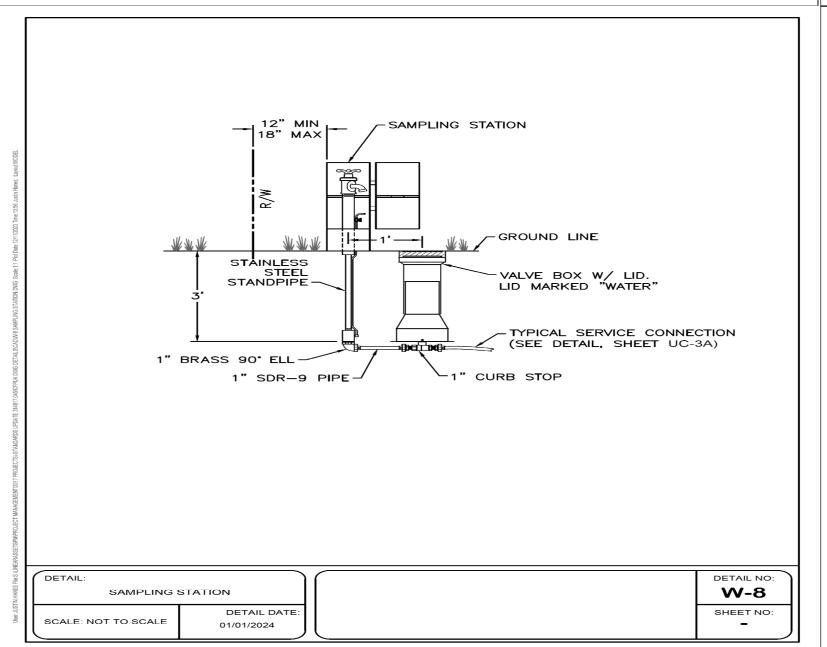


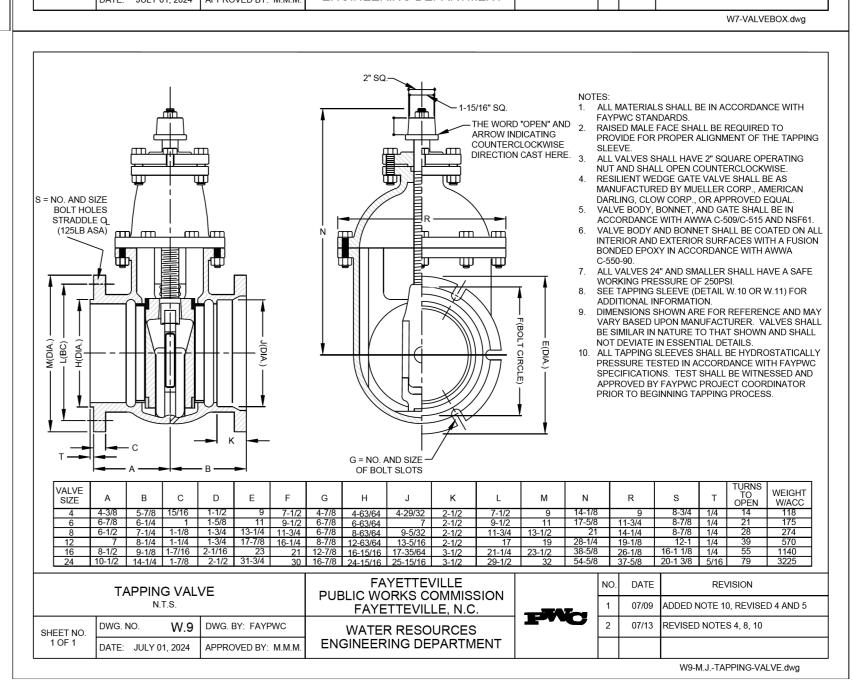


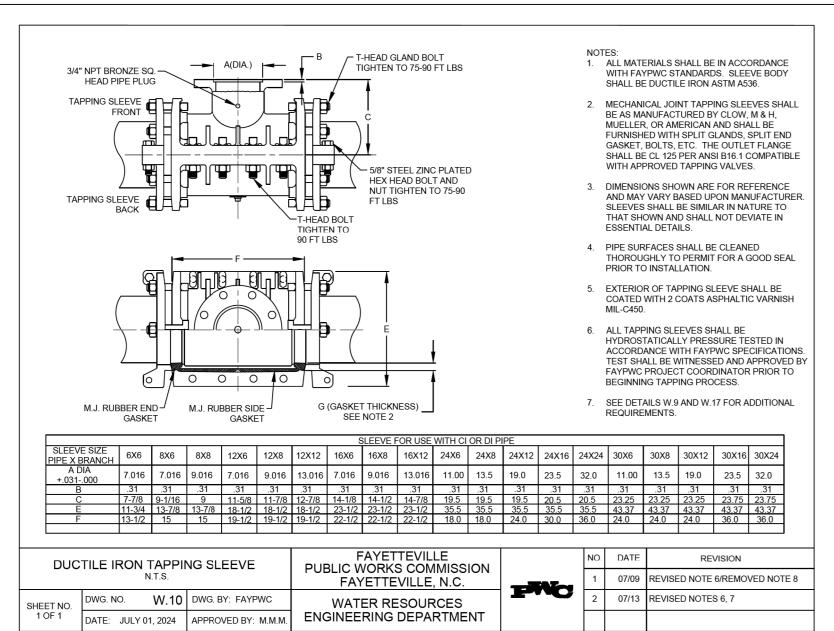


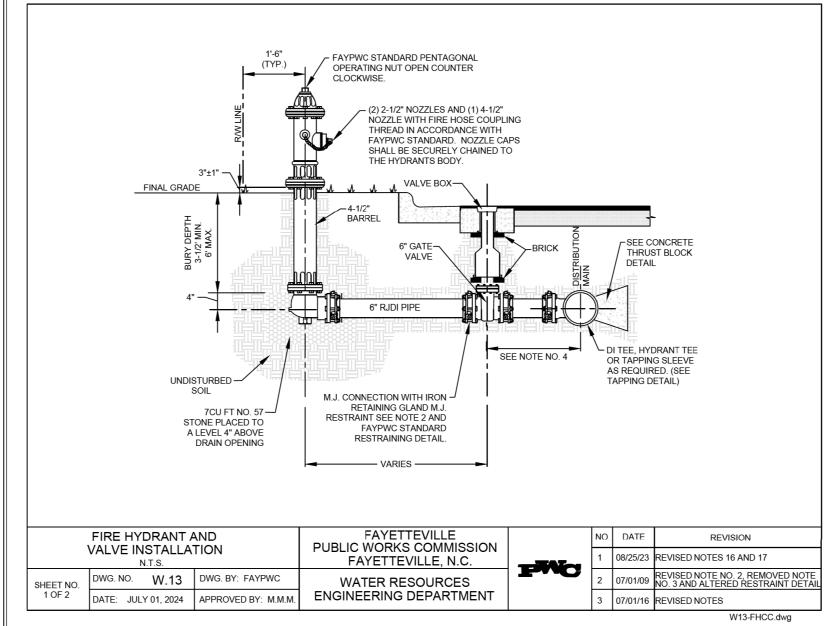


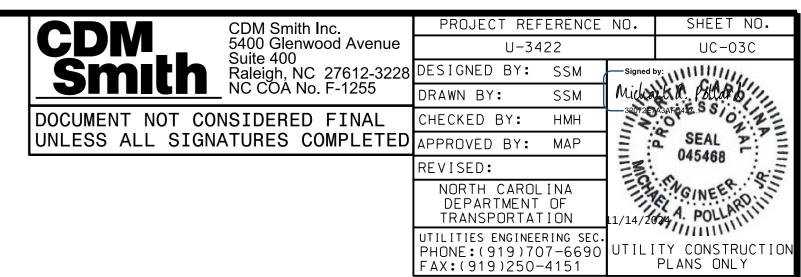
W8-CONC-PROTECTOR-RING.dwg





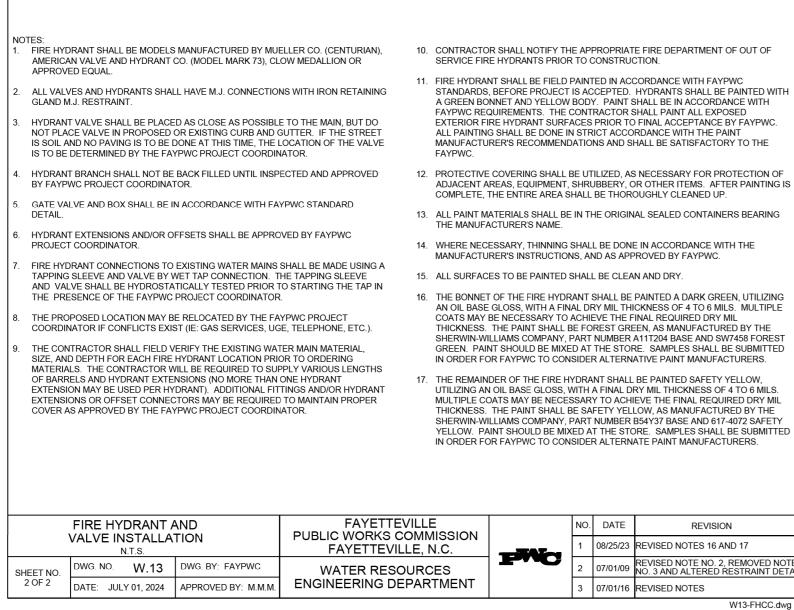


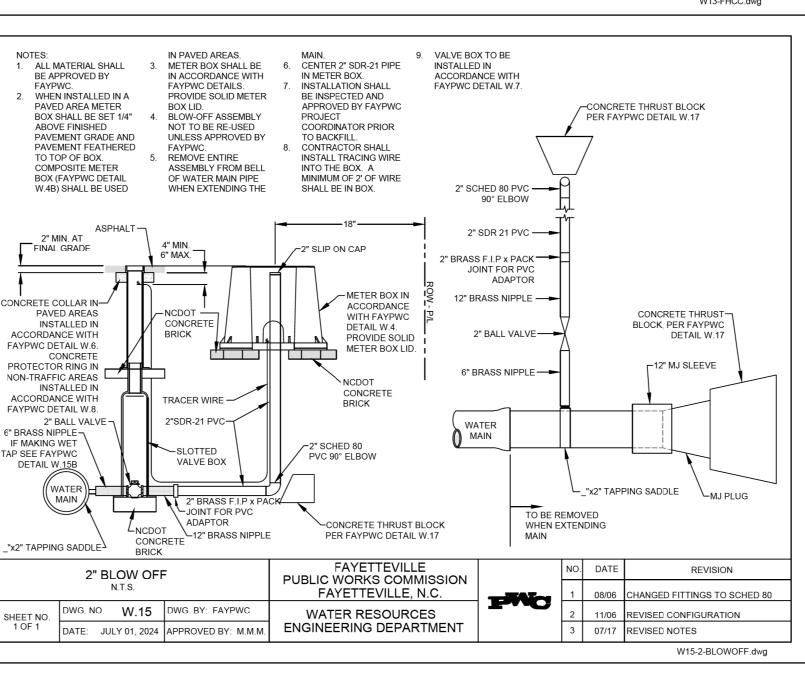


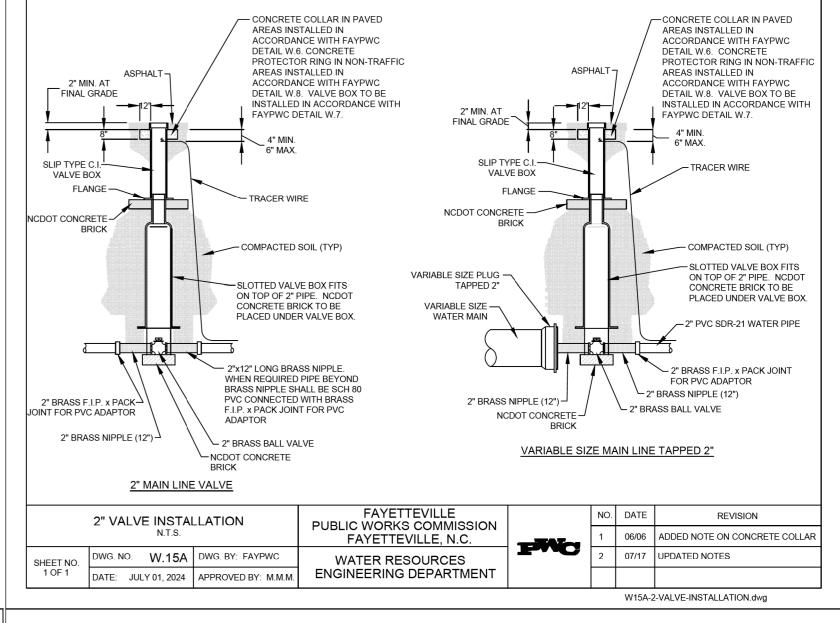


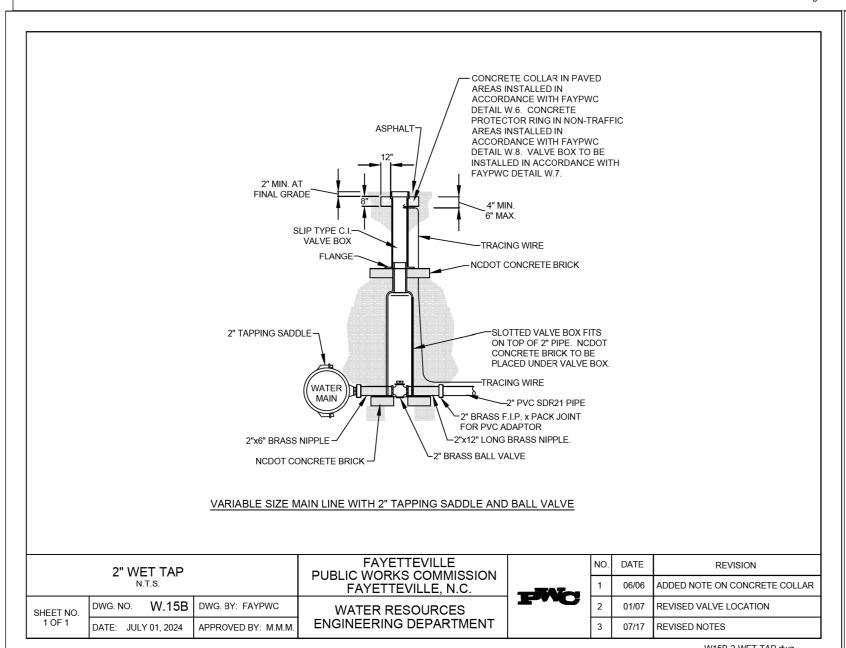
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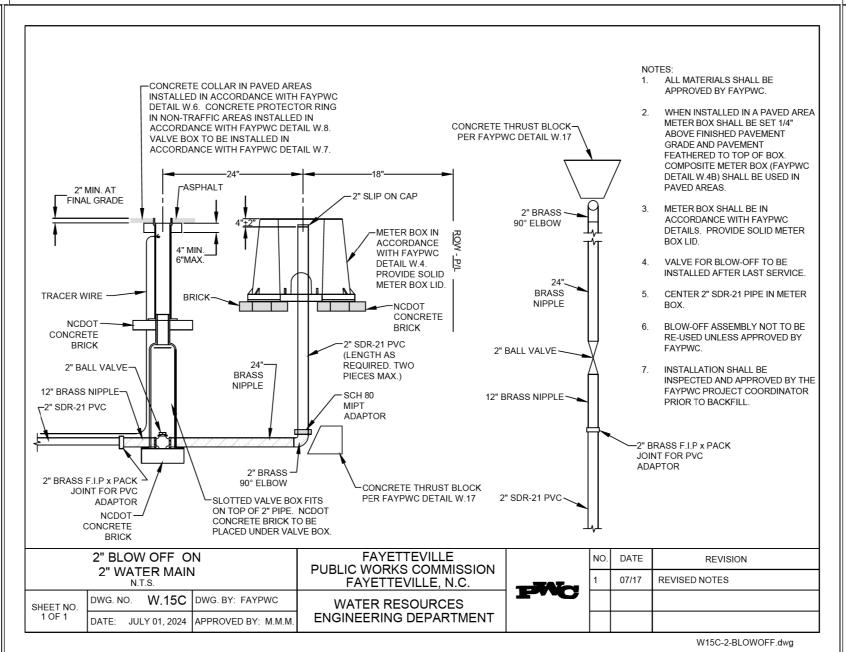
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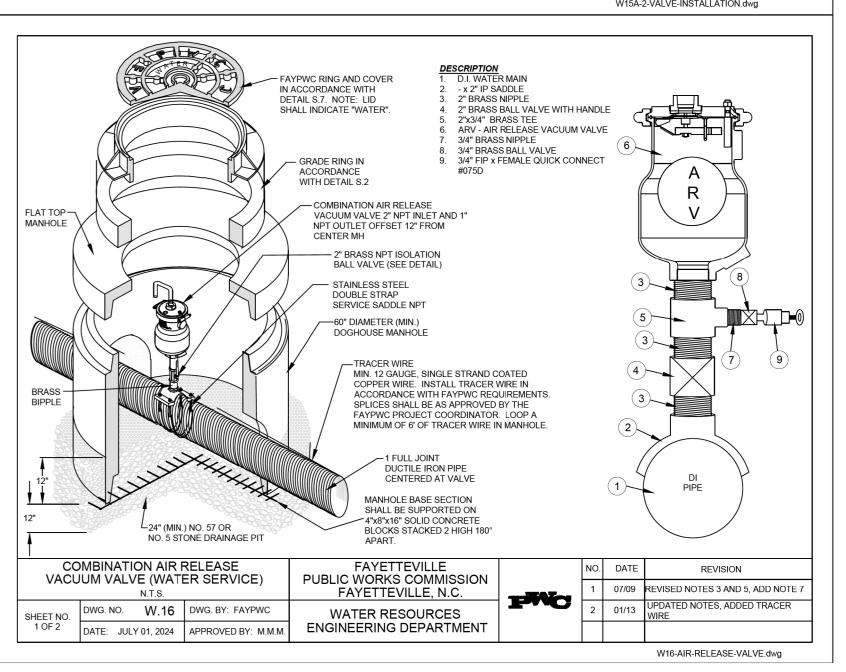






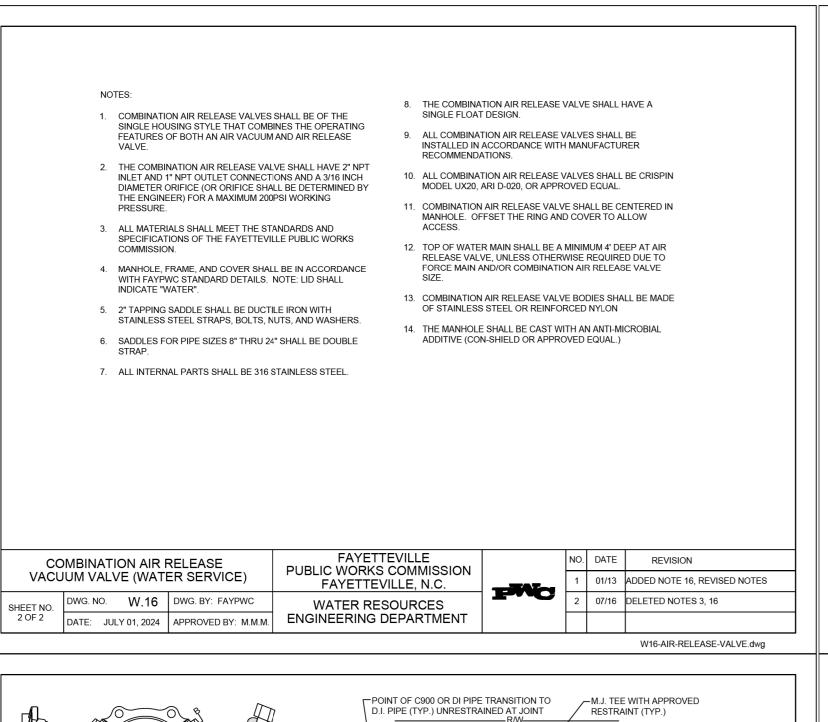






W10-M.J.-TAPPING-SLEEVE.dwg

W15B-2-WET-TAP.dwg



RESTRAINT (TYP.)

M.J. GATE VALVE WITH -

(TYP.)

APPROVED RESTRAINT

RESTRAINED JOINT DETAIL FOR TYPICAL TEE INTERSECTION

4-WAY INTERSECTION SIMILARLY RESTRAINED

. THRUST RESTRAINT SHALL BE

INSTALLED ON DUCTILE IRON

THRU 12" DIAMETER IN THE

STANDARD THRUST BLOCK

IRON RETAINING GLAND M.J.

RESTRAINT OR OTHER FORM

OF IRON RESTRAINT SHALL

NOT BE USED ON PVC PIPE

PIPE GREATER THAN 12 INCH

4 COMPACT FITTINGS ARE

RESTRAINED JOINT PIPE FOR

ACCEPTABLE FOR USE WITH

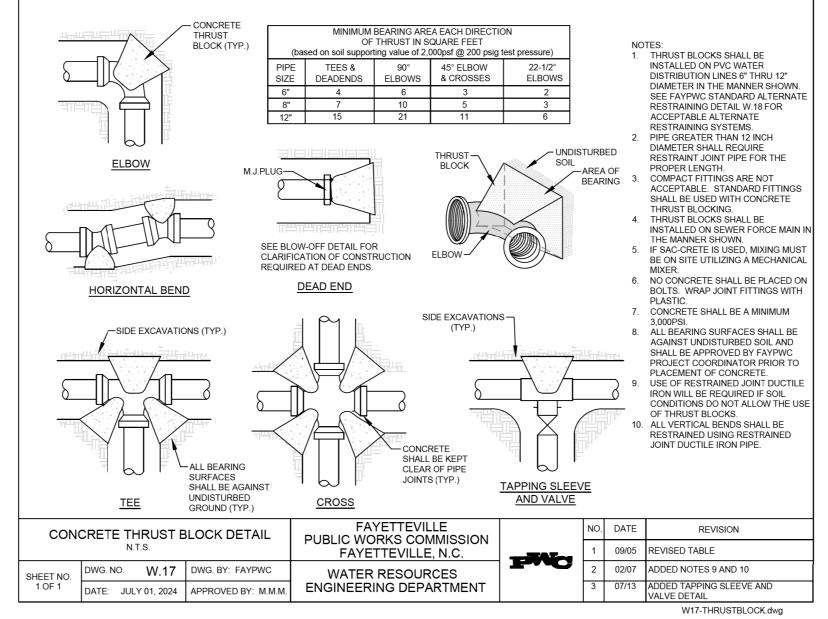
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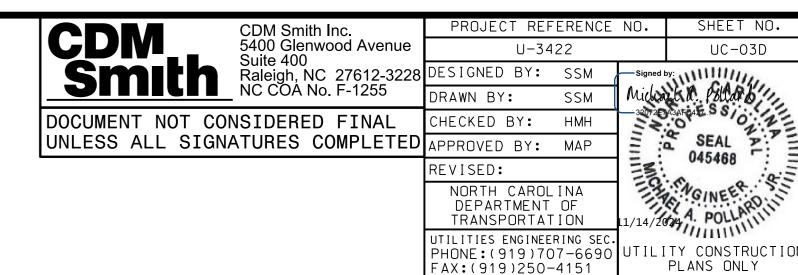
IRON RETAINING GLAND M.J.

DETAIL W.17 FOR PVC

WATER DISTRIBUTION LINES 6"

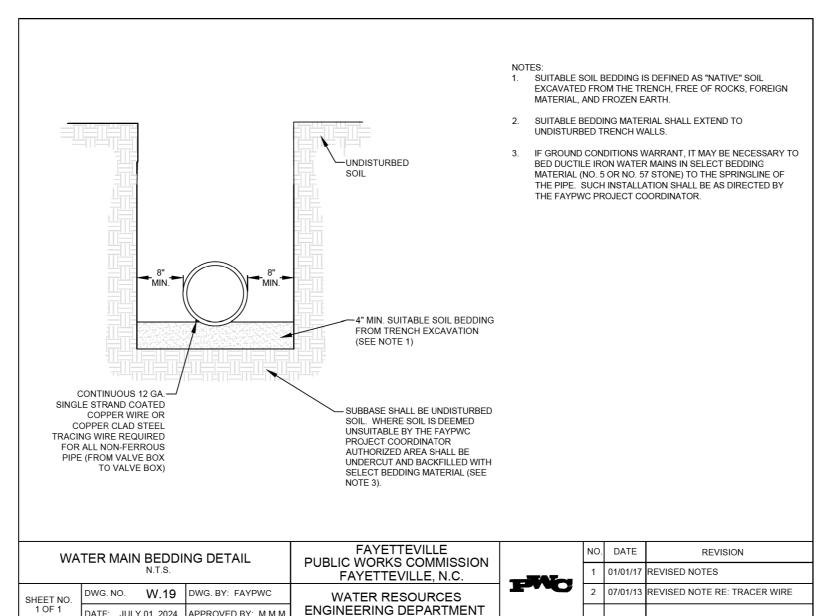
MANNER SHOWN. SEE FAYPW

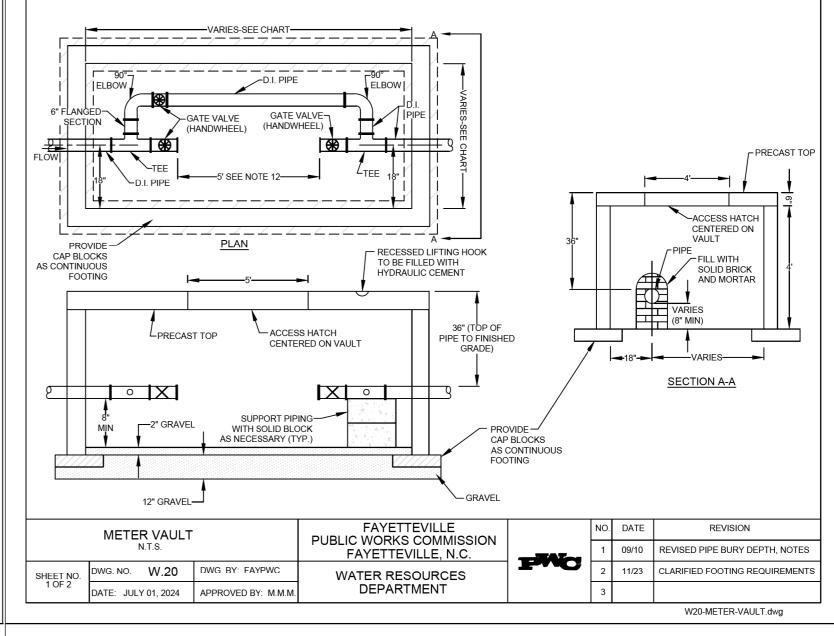


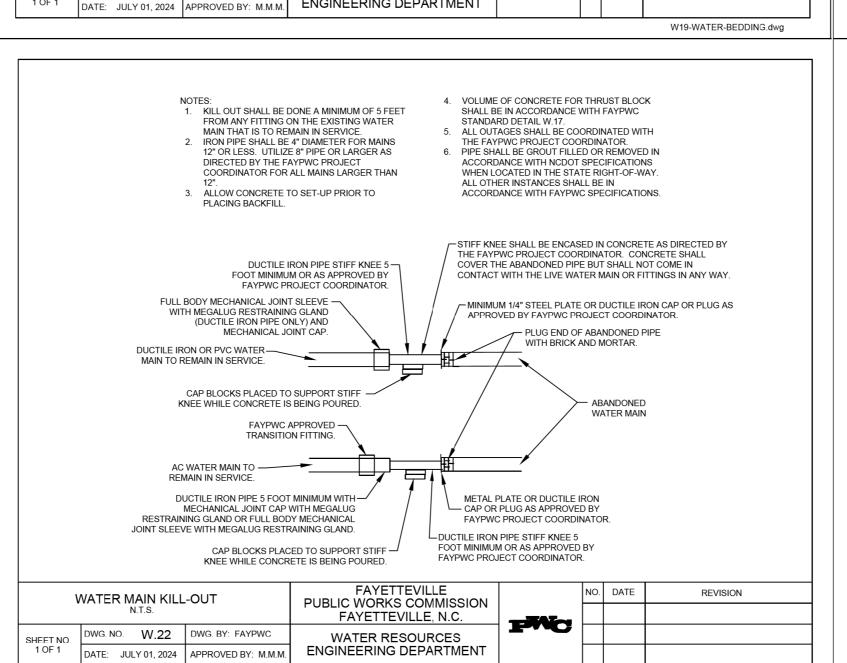


UTILITY CONSTRUCTION

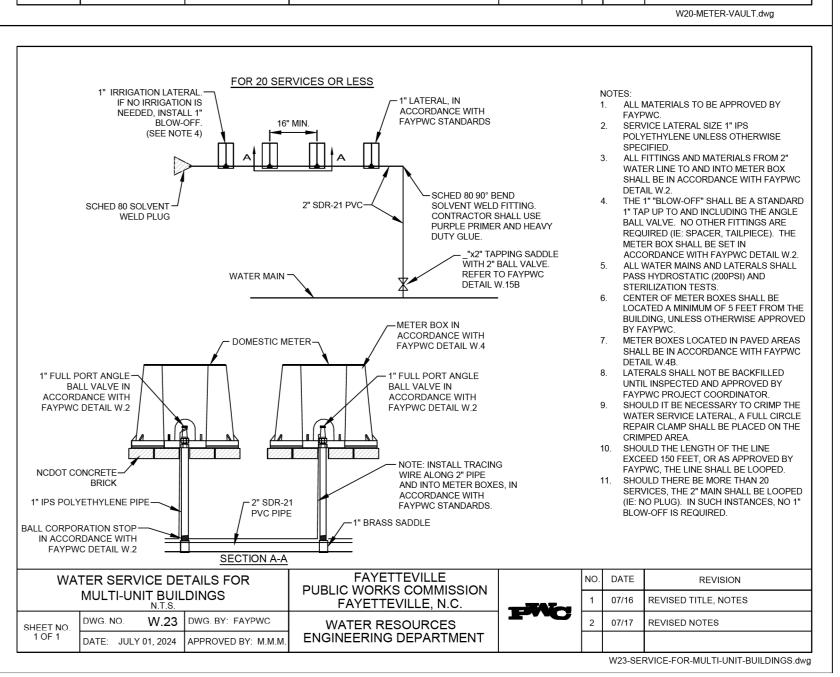
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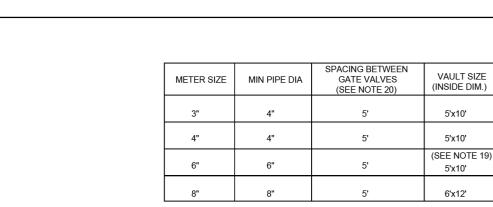






W22-WATERMAIN-KILLOUT.dwg





SECTION "B-B"

SECTION "A-A"

FI BOWS

RESTRAIN M.J. JOINTS WITH IRON

FAYETTEVILLE PUBLIC WORKS COMMISSION

FAYETTEVILLE, N.C.

WATER RESOURCES

IRON FROM TAP AT MAIN TO VAULT.

10. PIPE FITTINGS INSIDE VAULT SHALL BE

11. VAULT SHALL BE SET PLUMB AND LEVEL.

POSITIVE DRAINAGE AWAY FROM IT.

MATCH FINISHED GRADE, AND SHALL HAVE

INSTALL SOLID CONCRETE CAP BLOCKS AS

CONTINUOUS FOOTING WITH NO GAPS.

13. FAYPWC TO INSTALL METER AND FITTINGS

14. ACCESS HATCH SHALL BE 5'x4' DOUBLE DOOR

CLEAR ACCESS TO METER.

15. ACCESS HATCH SHALL BE ALUMINUM,

CENTERED ON VAULT, SO AS TO PROVIDE

MOUNTED FLUSH AND SHALL BE CAPABLE OF

FAYPWC PRIOR TO CONSTRUCTION. BOLTS,

HINGES, AND HOLD OPEN ARM SHALL BE 316

BEARING INCIDENTAL TRAFFIC LOADS. ALL

OTHER HATCHES SHALL BE APPROVED BY

M.J. RESTRAINT RETAINING

APPROVED D.I. RESTRAINT.

DATE: JULY 01, 2024 APPROVED BY: M.M.M. ENGINEERING DEPARTMENT

VAULTS SHALL BE PRECAST REINFORCED CONCRETE (4, 000PSI). VAULT CONSTRUCTION SHALL BE CERTIFIED BY MANUFACTURER TO WITHSTAND LOADING DUE TO BACKFILLING, IN

SIDE VIEW

L<sub>C900</sub> OR

FRONT VIEW

IRON RETAINING GLAND M.J. RESTRAIN

8" SIZE SHOWN 6" AND 12" SIMILAR

IRON RETAINING GLAND M.J.

DWG. NO. W.18 DWG. BY: FAYPWC

LR (MIN. LENGTH OF RESTRAINT EACH DIRECTION OF THRUST IN LINEAR FEET) Based on 200 psig pressure, Safety Factor of 2.0:1, BARE DI PIPE AND ML Soil, 3.5' cover

Chart does not apply to pipes wrapped in polyethylene wrap

& CROSSES

OR DEAD END.

90° 45° ELBOW ELBOWS & CROSSES

- ACCORDANCE WITH ACI 318. 2. BRICK VAULTS SHALL NOT BE ACCEPTABLE.
- 3. NO RISERS SHALL BE ALLOWED.
- 4. VAULTS SHALL HAVE INSIDE DIMENSIONS AS

INDICATED ON CHART

- VAULT SHALL BE LOCATED OUTSIDE OF PAVED TRAFFIC AREAS.
- METER VAULT SHALL BE LOCATED WITHIN PUBLIC RIGHT-OF-WAY OR DEDICATED EASEMENT. IF IN EASEMENT, PROVIDE A
- MINIMUM 5' CLEARANCE AROUND VAULT. CONTRACTOR SHALL PROVIDE ALL FITTINGS.
- PIPING, ETC. AS INDICATED. THE VAULT SHALL BE LOCATED NO CLOSER
- THAN 5' FROM ANY STRUCTURE.
  - STAINLESS STEEL **FAYETTEVILLE** PUBLIC WORKS COMMISSION METER VAULT FAYETTEVILLE, N.C. DWG. NO. W.20 DWG. BY: FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT DATE: JULY 01, 2024 APPROVED BY: M.M.M.

PIPING SHALL BE RESTRAINED JOINT DUCTILE ACCESS HATCH SHALL LATCH AUTOMATICALLY UPON CLOSURE (SLAMLOCK). HATCH SHALL BE LOCKABLE USING A KEYED LOCKING MECHANISM INTEGRAL TO THE HATCH. HATCH MANUFACTURER SHALL PROVIDE ONE

OPERATING KEY TO FAYPWC.

POINT OF D.I. PIPE TRANSITION TO

RESTRAINT AND OTHER FORMS

C900 OR D.I. PIPE (TYP.)

— ALL D.I. PIPE BETWEEN FITTING AND

VALVE SHALL BE RESTRAINED ALL

DIRECTIONS.

- M.J. GATE VALVE WITH

APPROVED RESTRAINT

DI PIPE TRANSITION TO

UNRESTRAINED AT JOINT

C900 OR D.I. PIPE

- C900 OR D.I. PIPE

DUCTILE IRON PIPE (TYP.)

RESTRAIN M.J. JOINTS WITH

APPROVED RESTRAINT (TYP.)

OF D.I. RESTRAINT.

THE MINIMUM LENGTH OF

THE LR DISTANCE TO BE

AYPWC PRIOR TO

RESTRAINT SYSTEMS MAY

VARY BASED UPON THE

SHOWN ON THE PLAN AT

GASKETS ARE AN ACCEPTABLE

METHOD OF RESTRAINT ON

W18-RESTRAINT-DETAIL.dwg

DUCTILE IRON PIPE ONLY.

11/16/07 REVISED TABLE, ADDED NOTE 8

ENGINEERS' DESIGN AS

PROFILE SHEETS.

BACKFILLING

RESTRAINT INDICATED SHALL

REQUIRE ALL JOINTS WITHIN

RESTRAINT SYSTEM SHALL BE

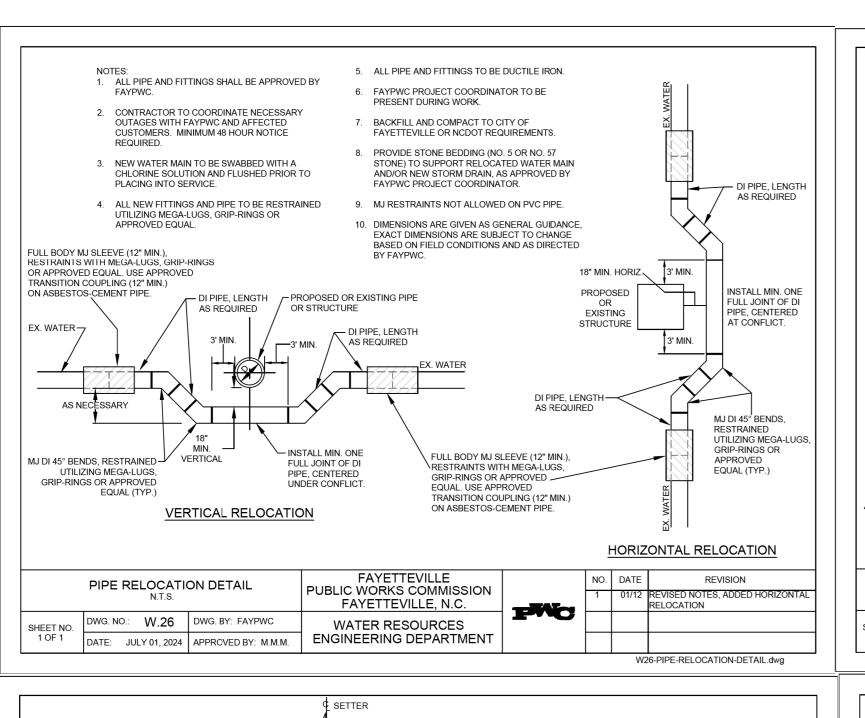
INSPECTED AND APPROVED B

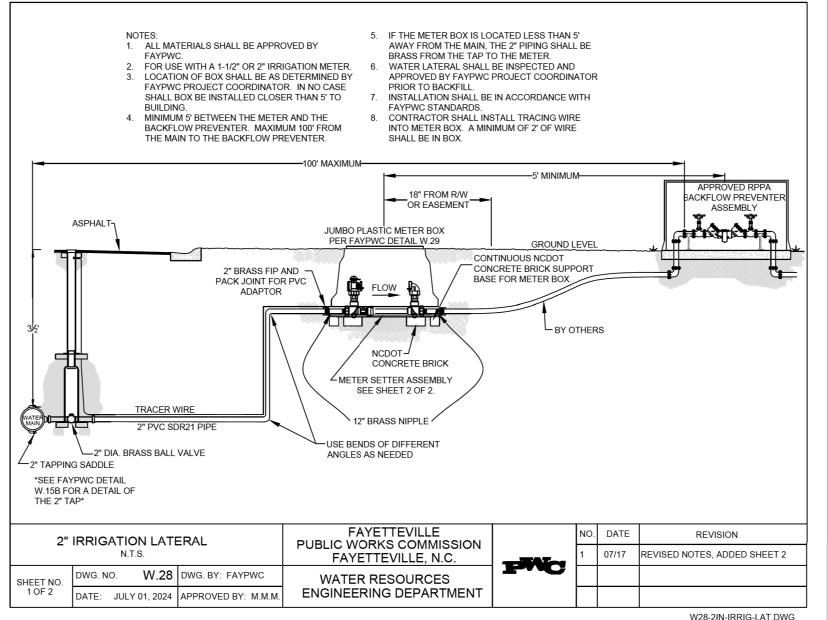
- 17. ALL LIFTING HOLES SHALL BE FILLED WITH HYDRAULIC CEMENT.
- 18. LATERAL AND VAULT INSTALLATION SHALL BE APPROVED BY FAYPWC PROJECT
- COORDINATOR PRIOR TO BACKFILL. LATERAL AND PIPING INSIDE OF VAULT SHALL PASS HYDROSTATIC AND STERILIZATION
- 20. IF USING 8" PIPING WITH A 6" METER, THE

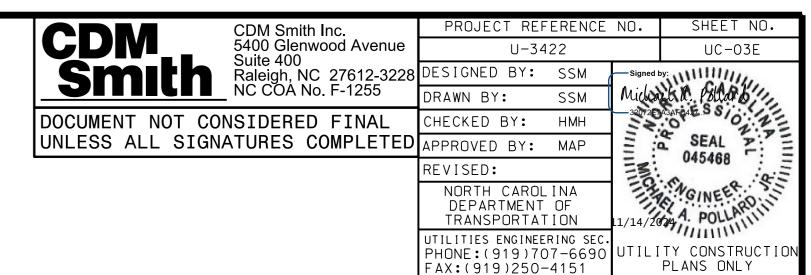
TESTS (200PSI).

VAULT SHALL BE 6'x12'.

21.	I. CONTRACTOR SHALL VERIFY VAULT DIMENSIONS, METER DIMENSIONS, AND PIPE LAYOUT WITH FAYPWC PRIOR TO ORDERING MATERIALS.					
	NO.	DATE	REVISION			
	1	09/10	REVISED PIPE BURY DEPTH, NOTES			
	2	11/23	CLARIFIED FOOTING REQUIREMENTS			
	3	·				
			W20-MFTFR-VAULT dwa			

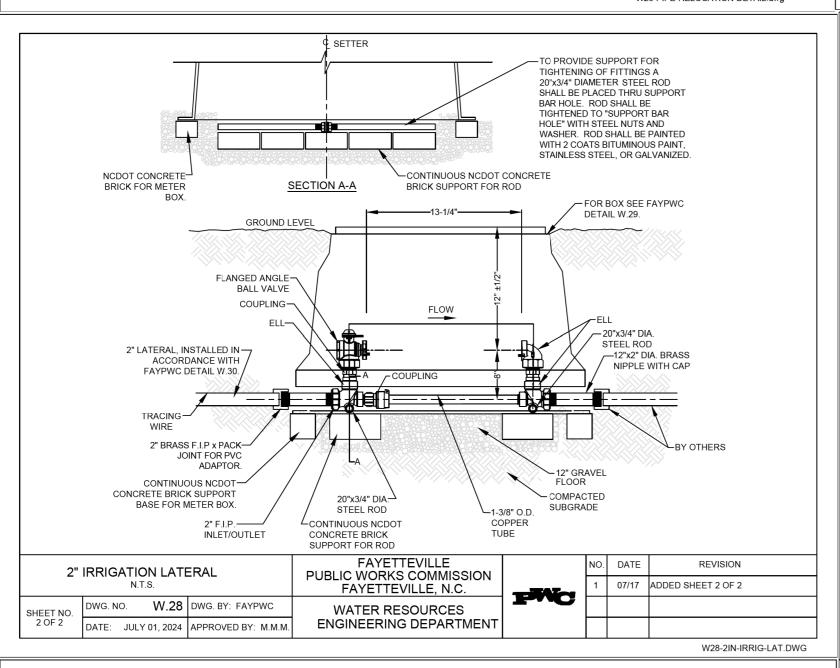


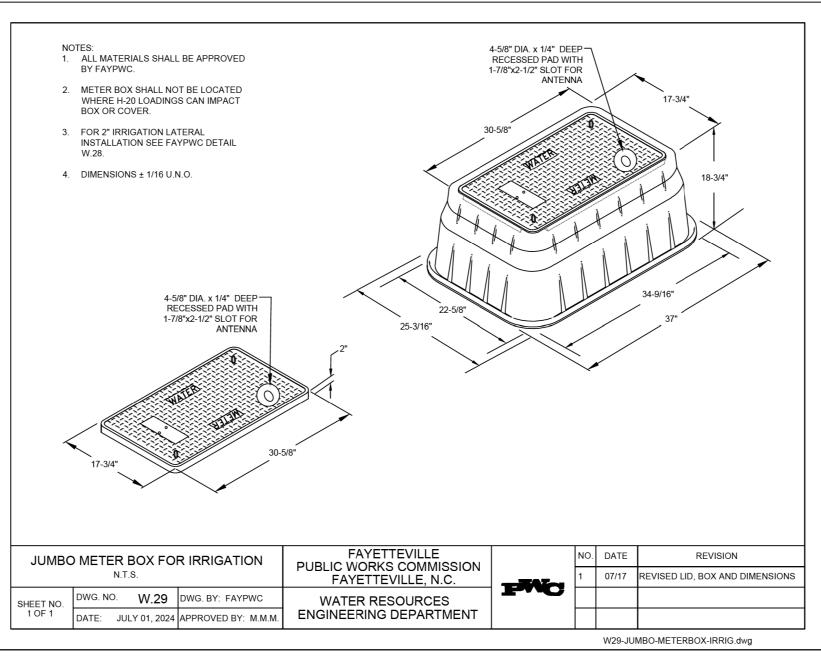


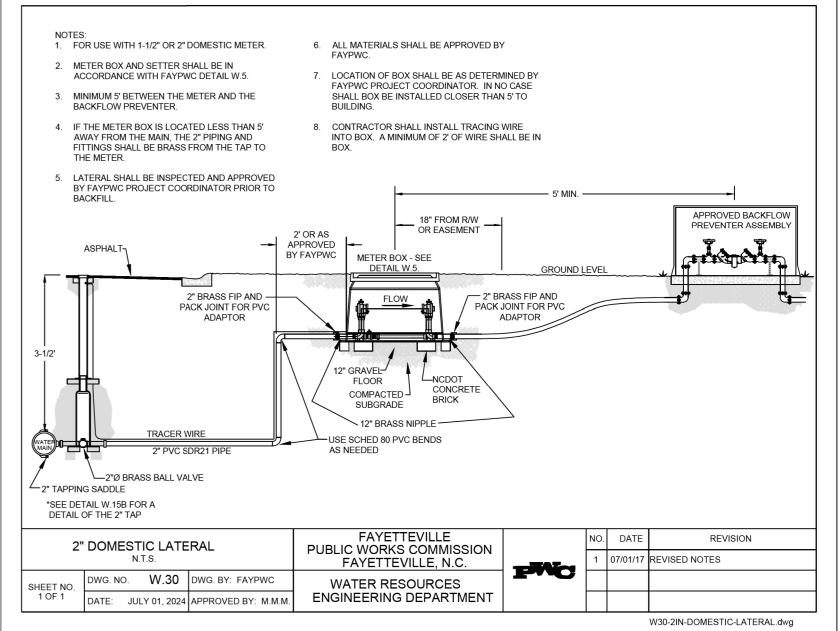


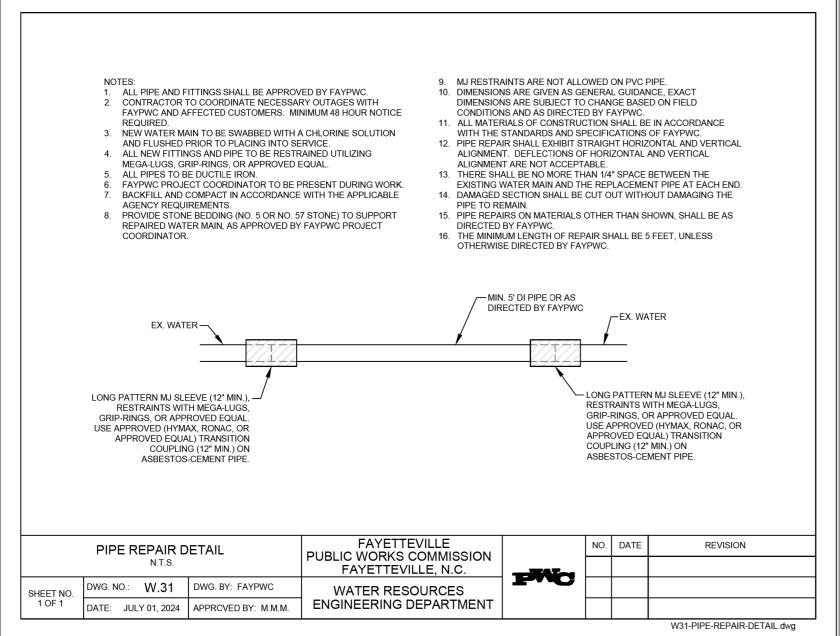
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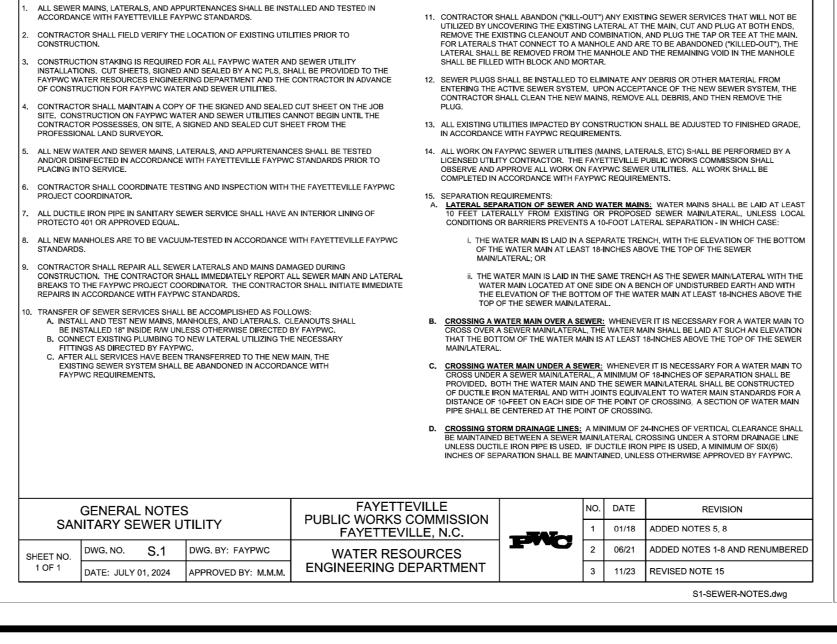
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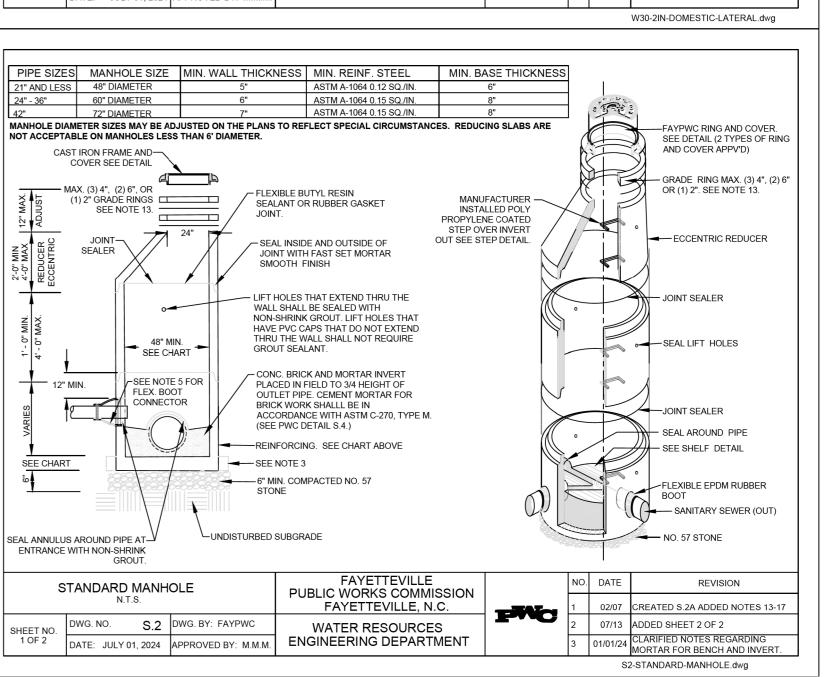












- MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000PSI.
- MANHOLES GREATER THAN 12' DEPTH SHALL HAVE MINIMUM 6" EXTENDED BASE.
- FLEXIBLE BUTYL RESIN JOINT SEALANT SHALL BE IN ACCORDANCE WITH ASTM C990. RUBBER GASKET JOINTS SHALL BE IN ACCORDANCE WITH ASTM C-443. FLEXIBLE EPDM RUBBER BOOT CONNECTORS SHALL BE IN ACCORDANCE WITH ASTM

C923, INSTALLED BY MANUFACTURER WITH STAINLESS STEEL COMPRESSION RING

AND TAKE-UP CLAMP. THE FLEXIBLE BOOT CONNECTOR SHALL BE TIGHTENED ON

- THE MAIN BY MEANS OF A SINGLE STAINLESS STEEL PIPE CLAMP. CONNECTIONS TO EXISTING MANHOLES SHALL BE BY CORING MANHOLE AND FIELD INSTALLING A FLEXIBLE EPDM RUBBER BOOT CONNECTOR. DO NOT ALLOW DEBRIS
- MORTAR USED FOR SEALING JOINTS AND LIFT HOLES SHALL BE QUICK SETTING. NON-SHRINK GROUT MIXED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MORTAR USED TO CONSTRUCT INVERTS AND SHELF SHALL BE IN ACCORDANCE WITH ASTM C-270, TYPE M, IN ACCORDANCE WITH PWC
- SPECIFICATION SECTION 03301 MANHOLE STEPS SHALL BE IN ACCORDANCE WITH ASTM C478 AND OSHA
- REGULATIONS. ALIGN STEPS WITH INVERT OUT. PRECAST INVERTS ARE NOT ALLOWED.
- 10. VERTICAL DROPS BETWEEN THE INFLOW PIPES AND OUTFLOW PIPES SHALL A. GREATER THAN 2.5' SEE DROP STRUCTURE DETAIL (MIN. 5' DIAMETER MH REQUIRED B. LESS THAN 2.5' SEE PIPE SLIDE DETAIL.
- AN ECCENTRIC CONE SHALL BE UTILIZED ON ALL MANHOLES, UNLESS OTHERWISE APPROVED BY FAYPWC
- INVERT ON PLANS IS TO MANHOLE CENTERLINE.

STANDARD MANHOLE

DWG. NO. S.2 DWG. BY: FAYPWC

DATE: JULY 01, 2024 APPROVED BY: M.M.M.

3 GRADE RINGS SHALL NOT BE USED FOR ABOVE GRADE ADJUSTMENTS (IF: OUTFALL AREAS). USE OF GRADE RINGS ARE ALLOWABLE IN YARD AREAS AND PAVEMENT WHERE THE RING AND COVER ARE AT GROUND LEVEL. GRADE RINGS CAN BE

EITHER CONCRETE OR HDPE. HDPE GRADE RINGS SHALL MEET THE REQUIREMENTS OF ASTM 4796 FOR MATERIAL, QUALITY, AND PERFORMANCE. HDPE GRADE RINGS SHALL BE MANUFACTURED BY LADTECH, INC. OR APPROVED EQUAL.

- 14 THE MINIMUM SLOPE ACROSS THE INVERT OF THE MANHOLE SHALL BE 1% UNLESS OTHERWISE APPROVED BY FAYPWC. STANDING WATER IN INVERT OF MANHOLE IS NOT ACCEPTABLE.
- THE EXTERIOR MANHOLE RISER JOINTS, INCLUDING THE JOINT AT THE CONE, SHALL BE SEALED ON THE OUTSIDE BY AN APPROVED JOINT WRAP. THE WRAP SHALL BE IN CORDANCE WITH FAYPWC SPECIFICATIONS
- MANHOLE BOOT FOR 4-INCH LATERALS, SHOULD IT BE NECESSARY TO INSTALL A 4-INCH LATERAL INTO A MANHOLE THE RUBBER BOOT THAT THE LATERAL IS INSERTED INTO SHALL BE SECURELY FASTENED TO THE CORE HOLE BY UTILIZING A STAINLESS STEEL BAND THAT IS TIGHTENED USING A JACK OR A TORQUE WRENCH (DIRECT DRIVE). BOTH STANDARD SIZE AND STEP DOWN BOOTS ARE ALLOWED. THI TORQUE WRENCH SHALL BE SUPPLIED BY THE MANUFACTURER. NO OTHER TYPE BANDS OR METHOD OF SECURING THE BOOT TO THE MANHOLE SHALL BE ACCEPTE
- BOOT SHALL BE 3.5-INCHES TO 4.25-INCHES. FOR FOUR (4) INCH DUCTILE IRON LATERALS, THE PIPE OUTSIDE DIAMETER RANGE OF THE BOOT SHALL EITHER BE AS FOR VC OR 4.25-INCHES TO 4.81-INCHES. IN ALL CASES, THE BOOT SHALL BE TIGHTENED ON THE LATERAL BY MEANS OF A

FOR FOUR (4) INCH SDR 26 LATERALS. THE PIPE OUTSIDE DIAMETER RANGE OF THE

- THE LATERAL INVERT SHALL BE AT THE TOP O F THE SHELF. 17 NO MORE THAN 4 FOUR-INCH LATERALS OR 3 SIX-INCH LATERALS SHALL ENTER A 4 DIAMETER TERMINAL MANHOLE. NO MORE THAN 2 LATERALS (REGARDLESS OF SIZE) SHALL ENTER ALL OTHER 4' DIAMETER MANHOLES. ALL LATERALS SHALL HAVE AN INDIVIDUAL TROUGH. 5' DIAMETER MANHOLES SHALL BE USED IF THE ABOVE
- 18. NO MORE THAN 5 LATERALS SHALL ENTER A 5' DIAMETER MANHOLE.

SINGLE STAINLESS STEEL PIPE CLAMP.

CONDITIONS ARE NOT MET

- 19. USE OF TEE-WYES ON LATERALS IS NOT ALLOWED.
- 20. ALL MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH FAYPWC

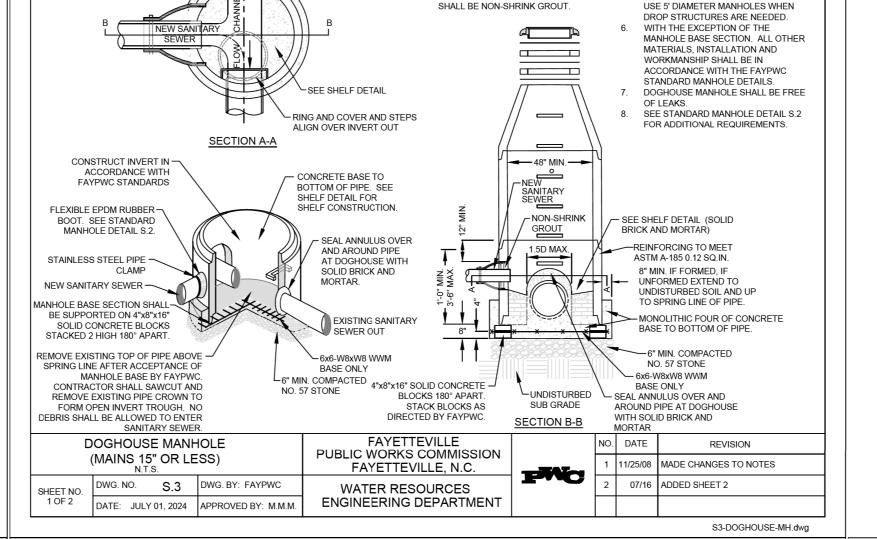
REAS AND PAVEMENT, ADE RINGS CAN BE			
FAYETTEVILLE PUBLIC WORKS COMMISSION	NO.	DATE	REVISION
PUBLIC WURNS COMMISSION	1	07/13	REVISED NOTES 9 10 11 15

CONVERTED TO S.2 SHEET 2 OF 2

1/19 REVISED NOTES 10, 18

124 REVISED NOTES 5, 7, 16.

S2-STANDARD-MANHOLE.dwg



MANHOLE MEETS ALL REQUIREMENTS

3. MATERIAL USED TO SEAL AROUND PIPE

CONCRETE IS MINIMUM 4,000PSI

COMPRESSIVE STRENGTH.

MANHOLE SHALL BE CONSTRUCTED OF

A DROP STRUCTURE SHALL BE PLACED

WHERE PIPE VERTICAL SEPARATION

BETWEEN INVERTS EXCEEDS 2.50'.

PRECAST CONCRETE. FIBERGLASS

MANHOLE IS NOT ACCEPTABLE

CDM Smith Inc. 5400 Glenwood Avenue Suite 400 Raleigh, NC 27612-322

NC COA No. F-1255 DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

ESIGNED BY: SSM Signed by: Michael R. Pollar 6 RAWN BY: SSM HECKED BY: HMH PPROVED BY: MAP 045468 REVISED: NGINEER NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SHEET NO.

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UTILITY CONSTRUCTIO

PLANS ONLY

PROJECT REFERENCE NO.

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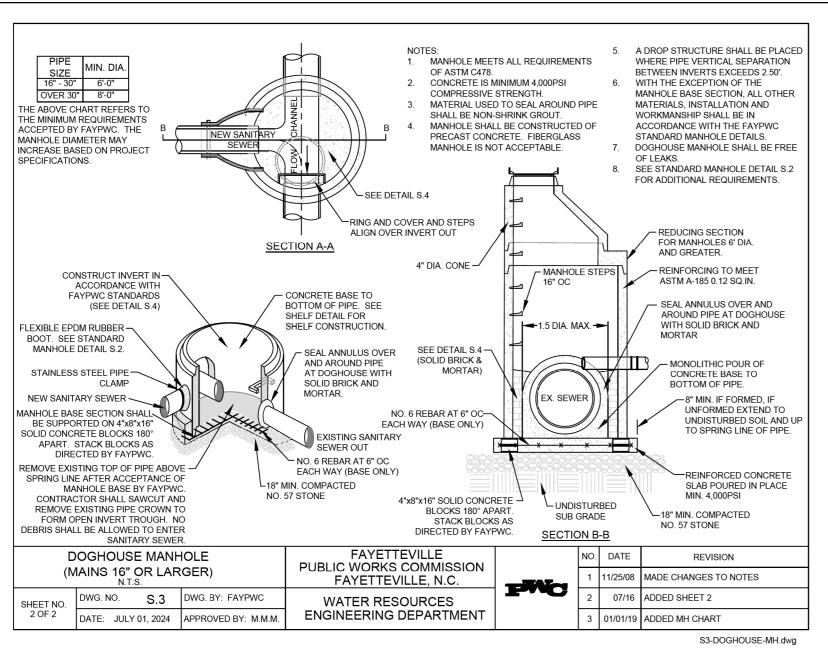
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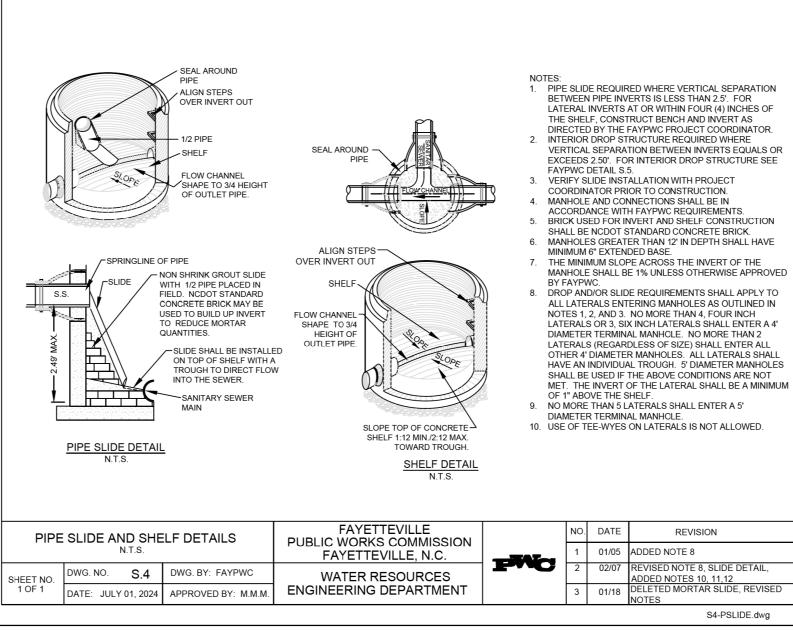
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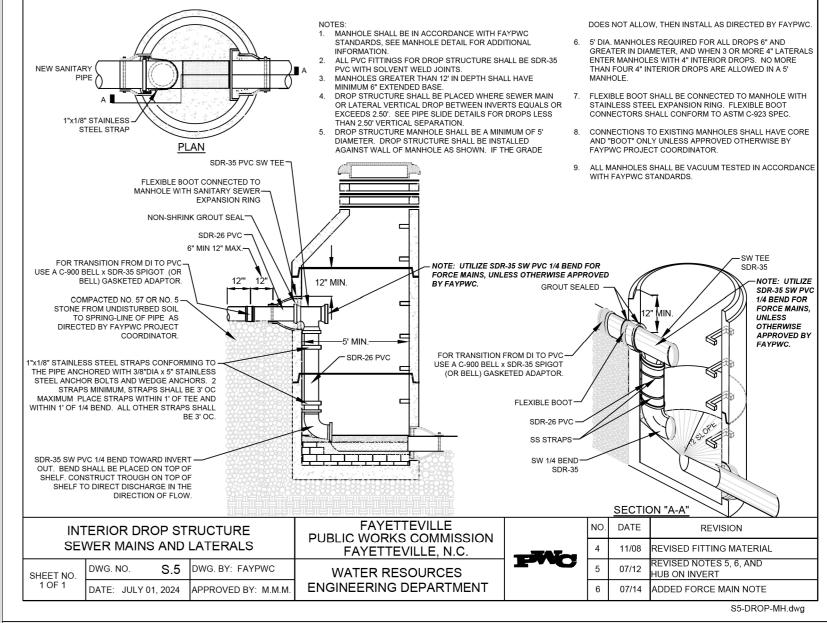
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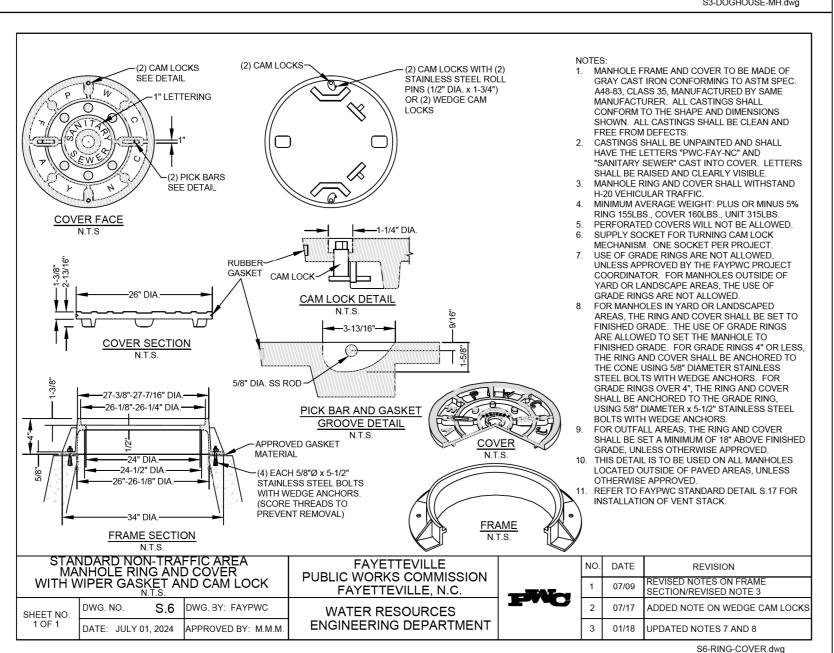


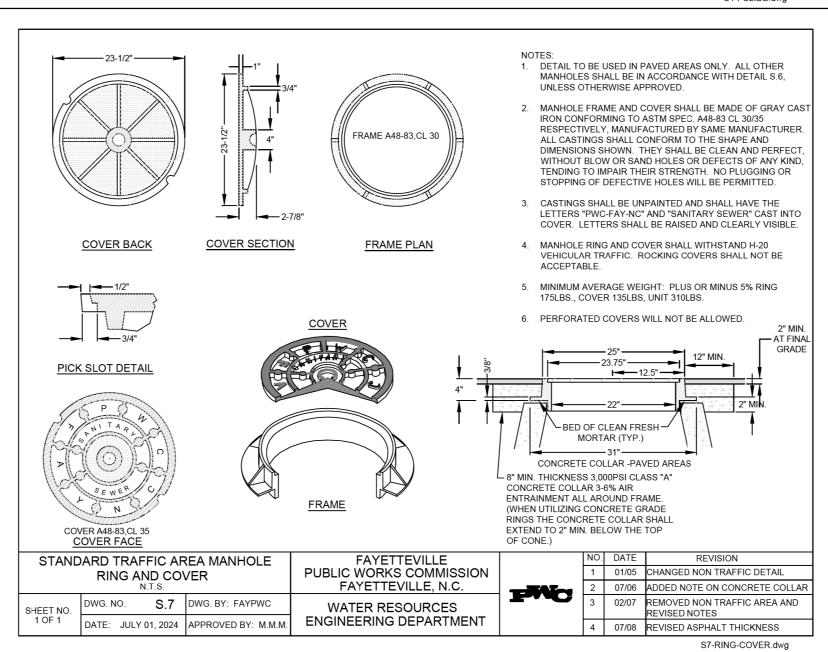
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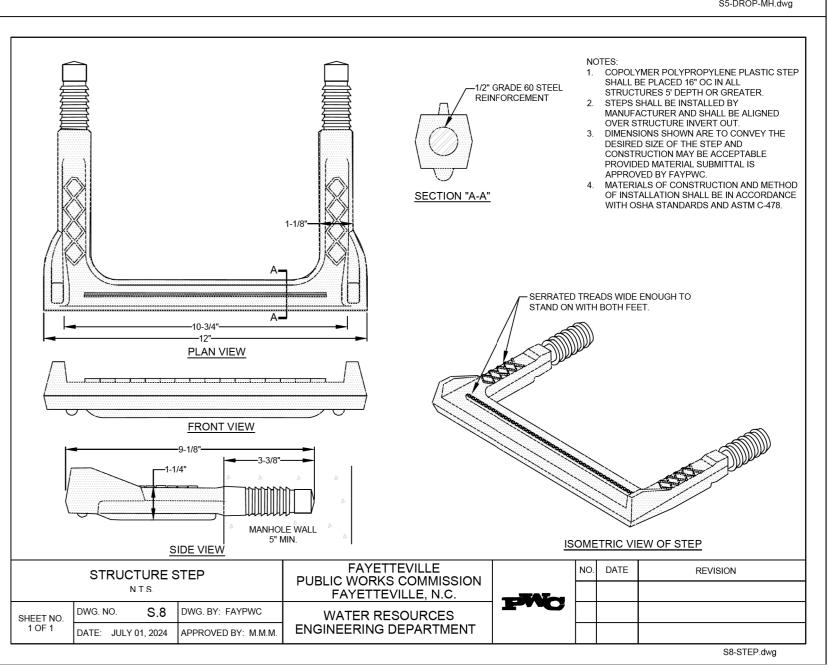
ENGINEERING DEPARTMENT

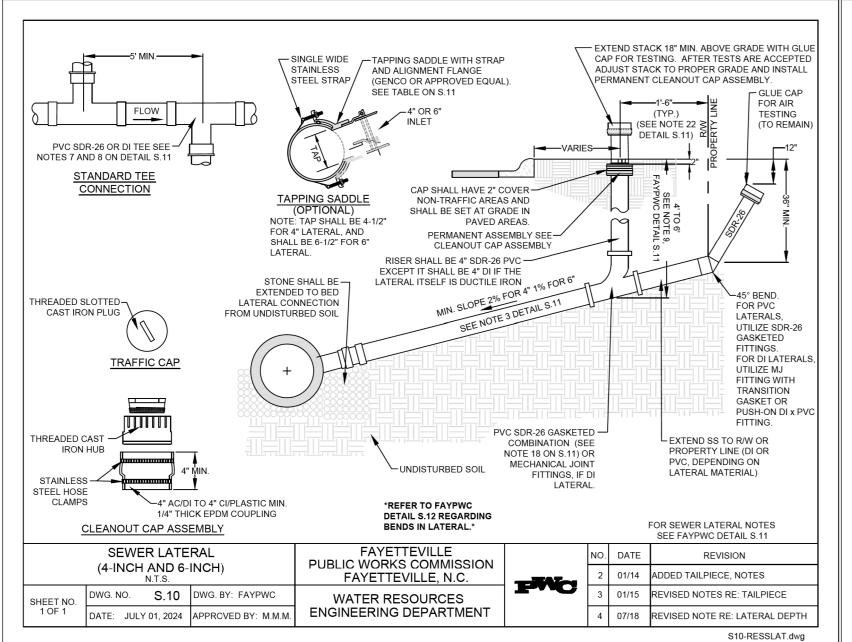


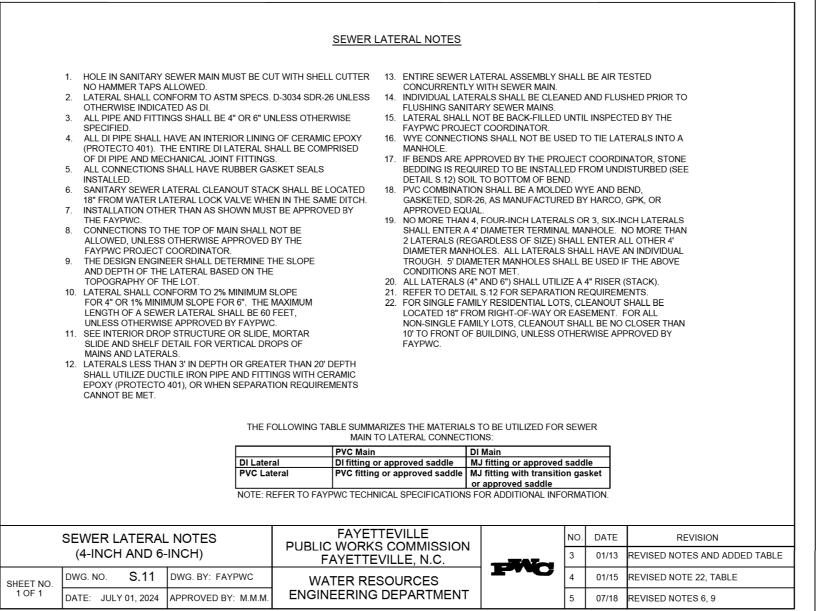


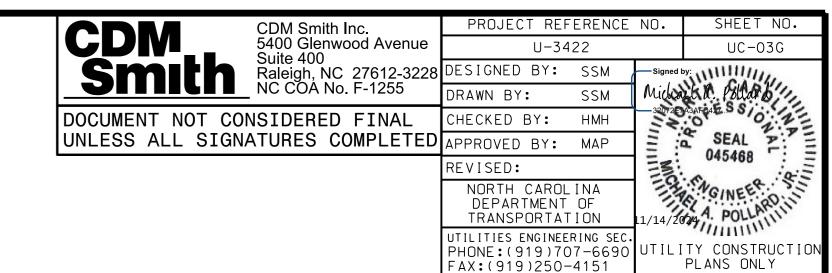






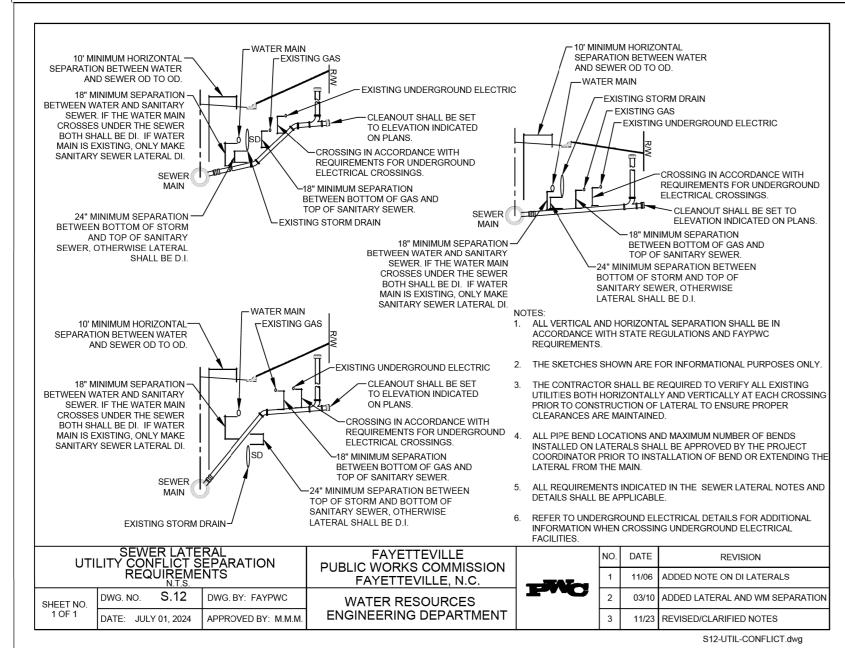


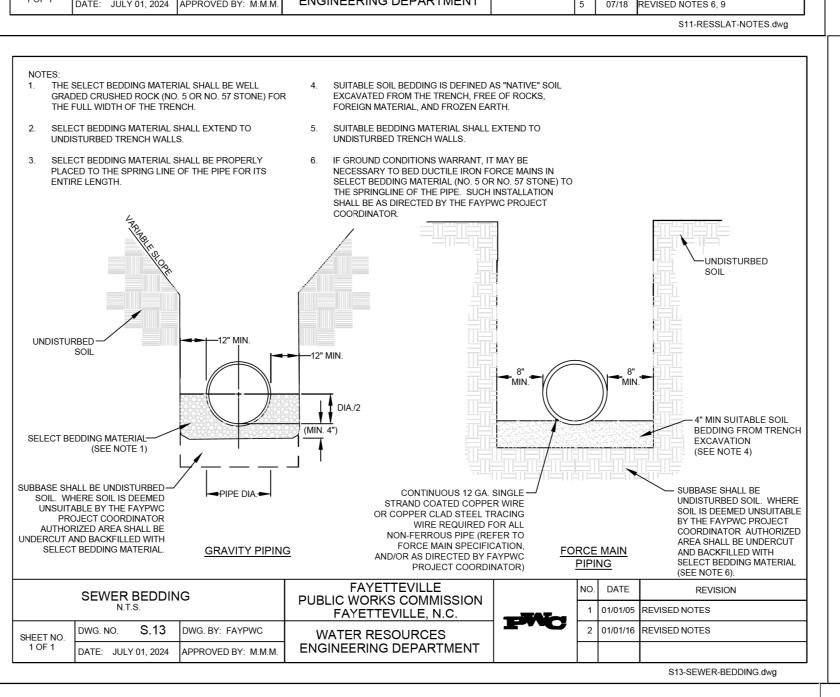


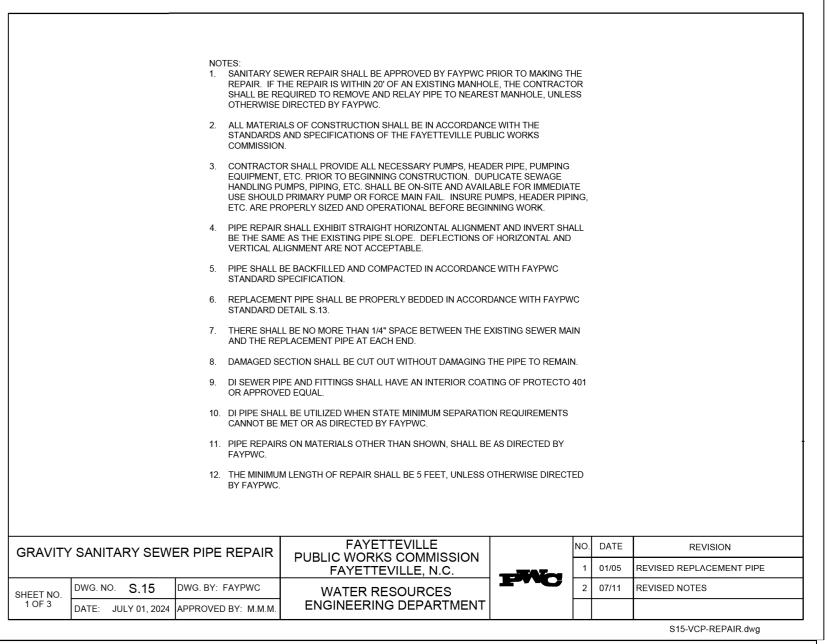


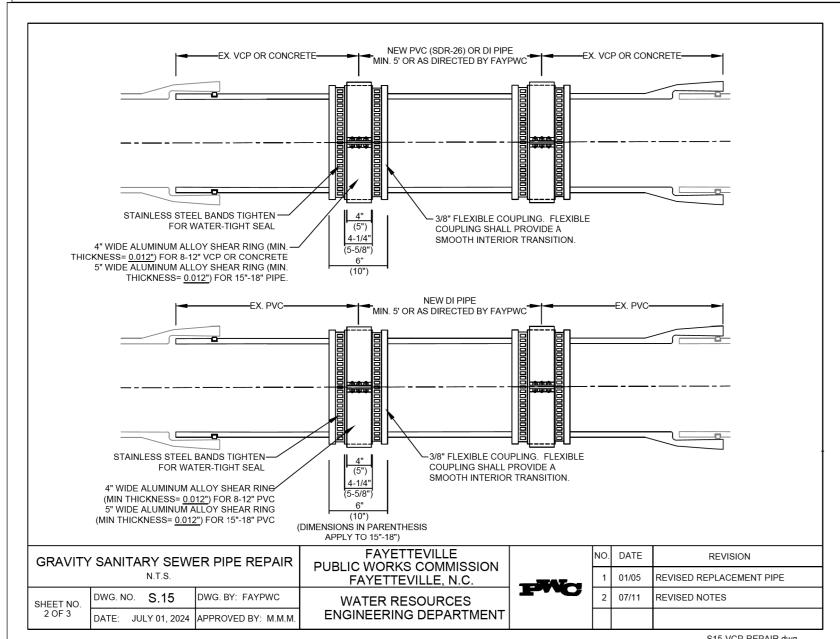
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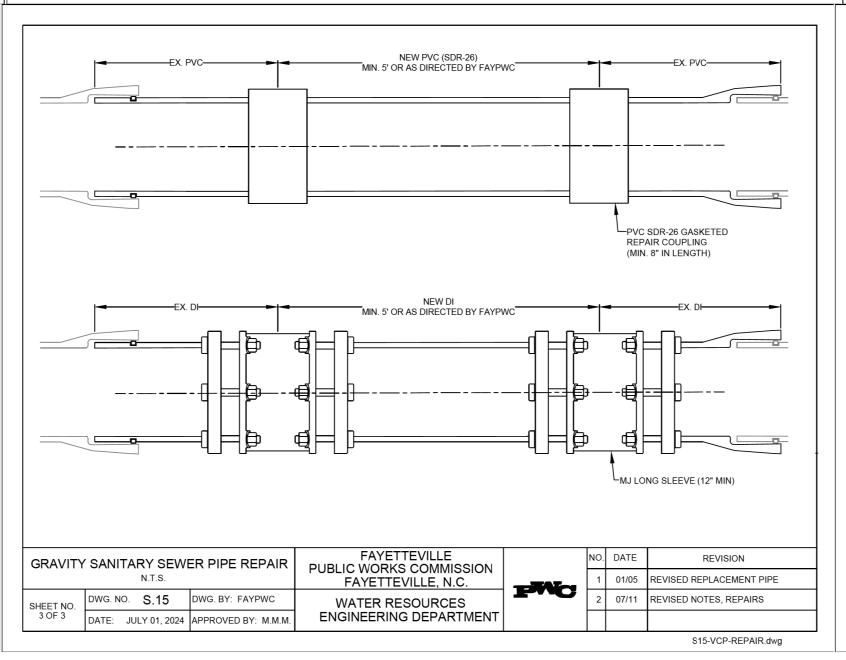
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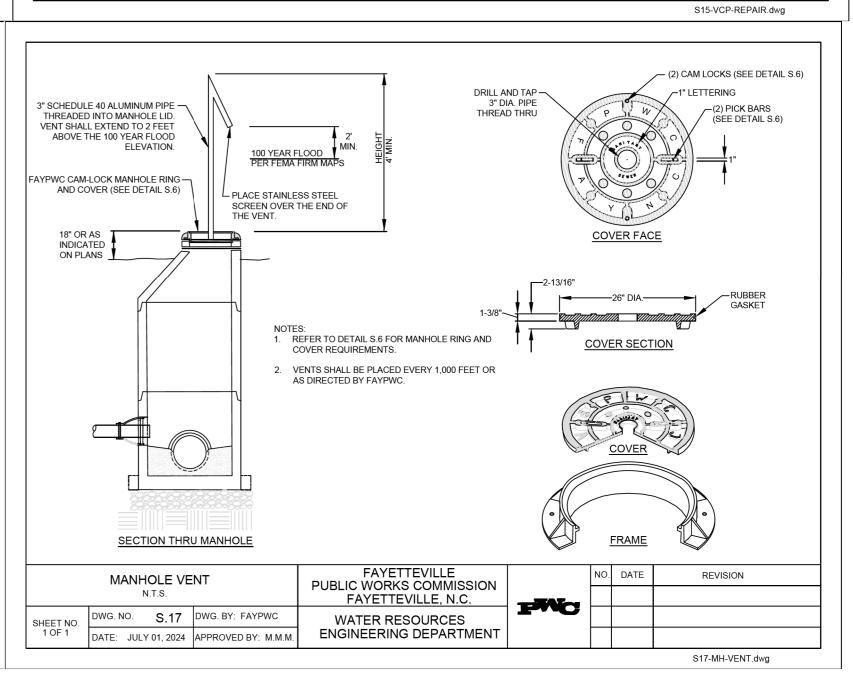












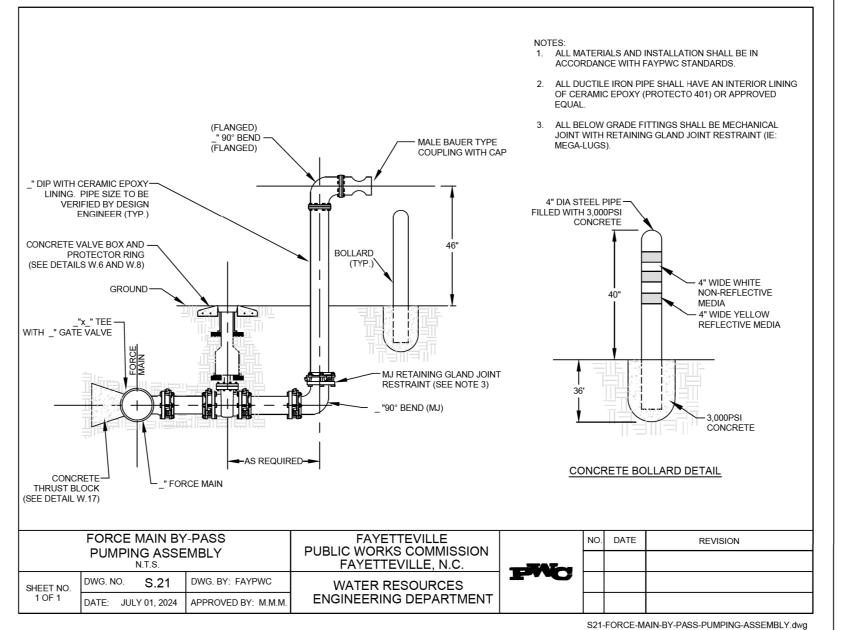
S15-VCP-REPAIR.dwg

WATER RESOURCES ENGINEERING DEPARTMENT

S18-PENETRATION-DETAIL.dwg

DWG. NO. S.18 DWG. BY: FAYPWC

DATE: JULY 01, 2024 APPROVED BY: M.M.M.



PROJECT REFERENCE NO. SHEET NO. CDM Smith Inc. 5400 Glenwood Avenue U-3422 UC-03H Suite 400 ESIGNED BY: SSM Raleigh, NC 27612-3228 Michael M. Pollard NC COA No. F-1255 RAWN BY: SSM DOCUMENT NOT CONSIDERED FINAL HECKED BY: HMH SEAL UNLESS ALL SIGNATURES COMPLETED PPROVED BY: MAP 045468 REVISED: GINEER NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ITILITIES ENGINEERING SEC UTILITY CONSTRUCTION PHONE:(919)707-6690

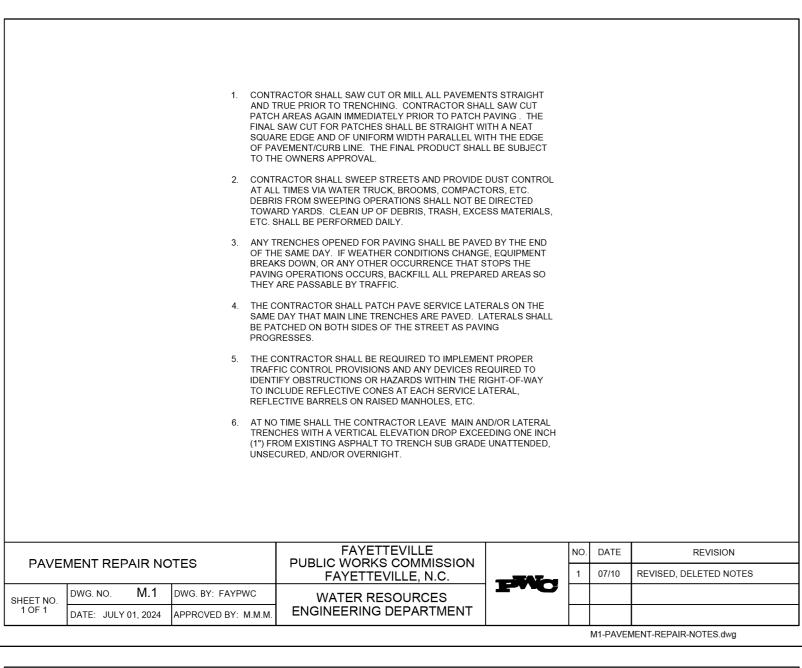
UTILITY CONSTRUCTION

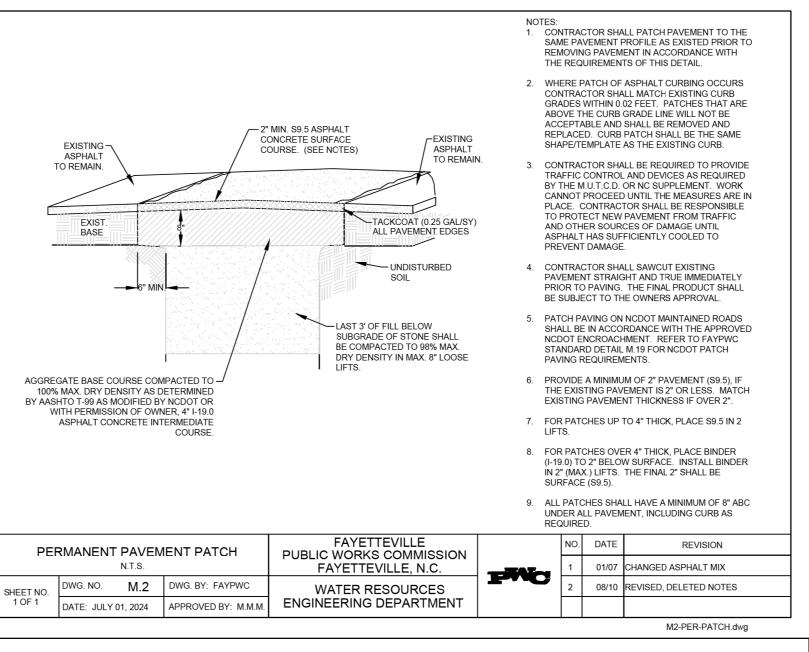
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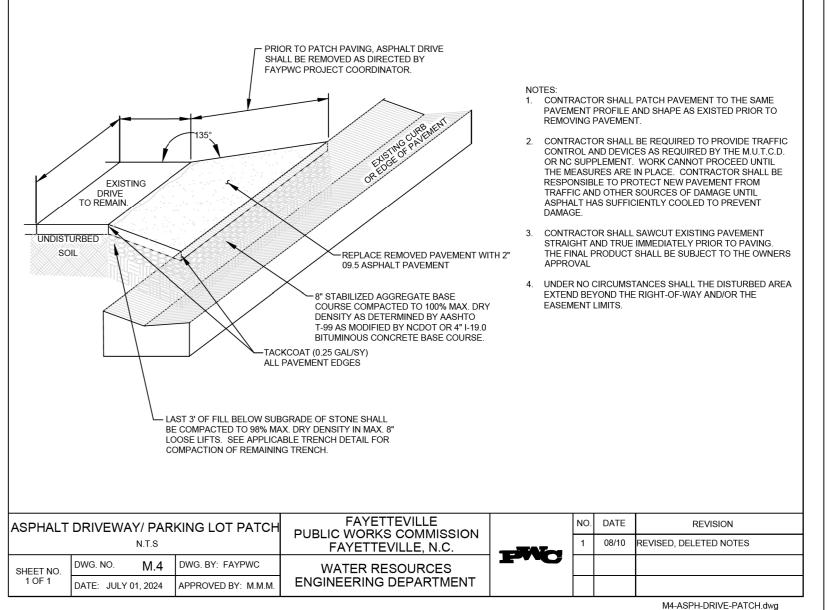
FAX: (919)250-4151

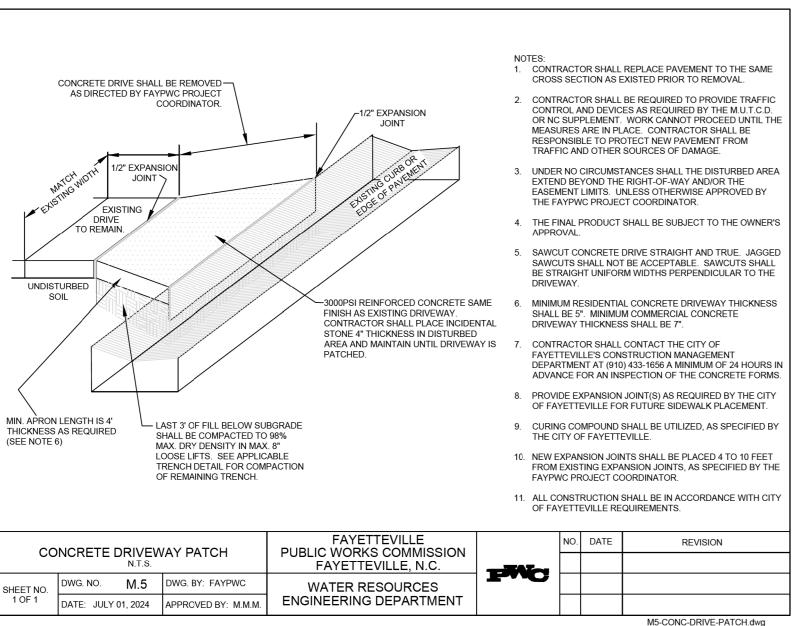
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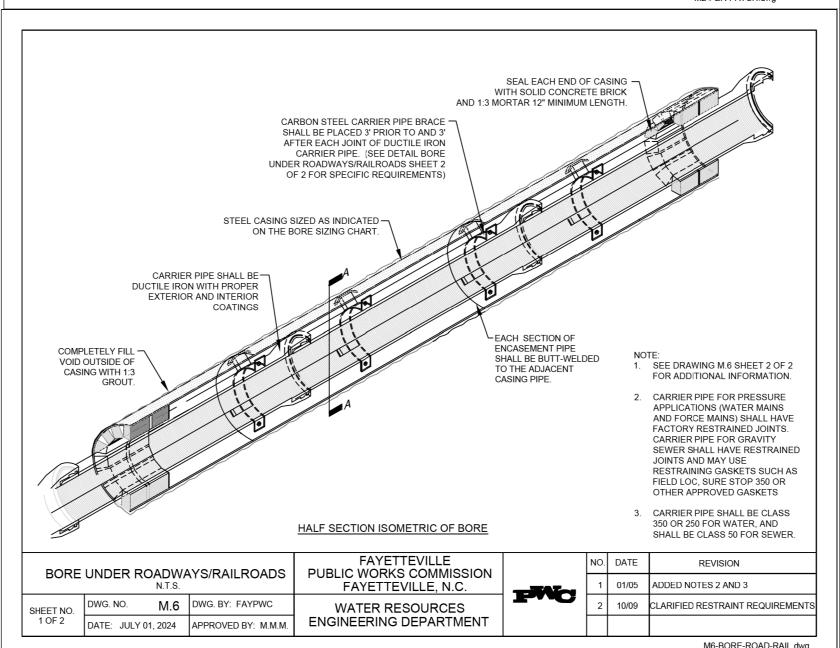
ANY REFERENCE TO FAYPWC PROJECT COORDINATOR, PWC COORDINATOR OR FAYPWC (FAYETTEVILLE PUBLIC WORKS COMMISSION) SHALL BE INTERPRETTED AS A REFERENCE TO THE ENGINEER.

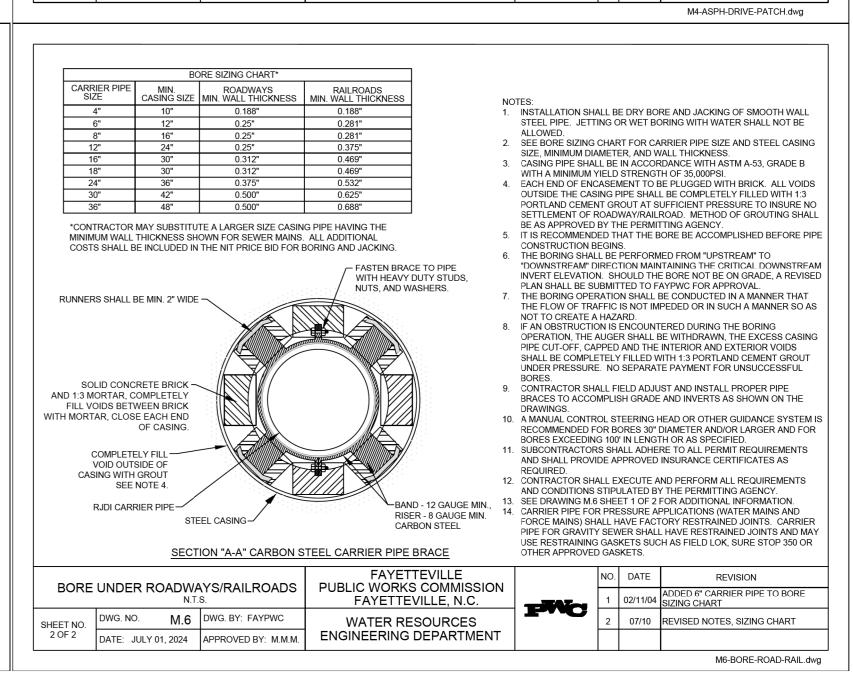








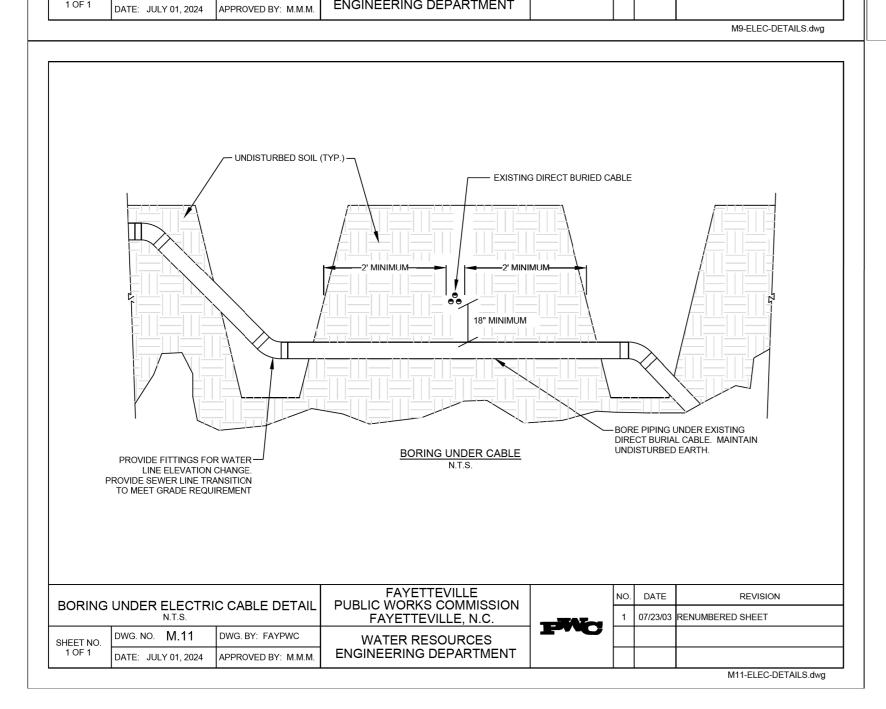


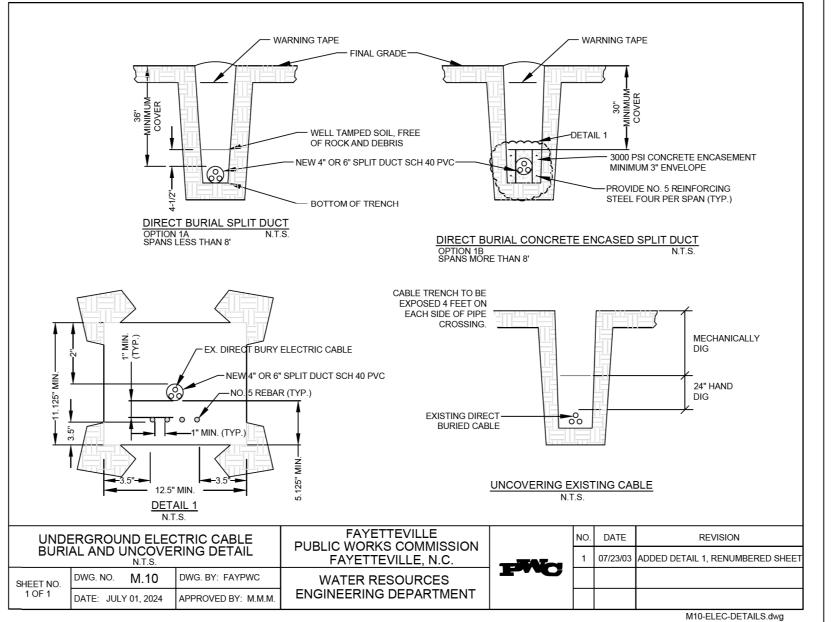


M6-BORE-ROAD-RAIL.dwg

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1. BOTTOM OF TRENCH SHALL BE FREE OF LOOSE ROCK. SOLID ROCK AT BOTTOM OF TRENCH SHALL BE COVERED WITH 4 INCH LAYER OF COMPACTED SOIL. IF SOLID ROCK IS ENCOUNTERED AT A DEPTH LESS THAN SPECIFIED, CONSULT ENGINEER. IF TRENCH CROSSES FILL DIRT, BOTTOM OF TRENCH SHALL BE COMPACTED BEFORE INSTALLING ANY CABLE. BACKFILL SHALL BE FREE OF ROCK AND DEBRIS. TAMP THE FIRST 12 INCHES OF BACKFILL ABOVE DIRECT BURIED FEEDER CABLES. TAMP THE FIRST 6 INCHES OF BACKFILL FOR ALL OTHER CABLES. ENTIRE TRENCH DEPTH SHALL BE TAMPED FOR RESIDENTIAL SERVICE LATERALS, UNDER AREAS TO BE PAVED, AND ALL STREET CROSSINGS. TAMPED MEANS SOIL COMPACTION TO THAT OF UNDISTURBED EARTH USING ALTERNATE BACKFILL AND TAMPING. IN ALL OTHER CASES UNLESS SPECIFIED BY THE ENGINEER, BACKFILLS ABOVE THE BOTTOM TAMPED LAYER SHALL BE COMPACTED SUCH THAT WASHING AND SETTLING OF THE TRENCH SURFACE 3. REFER TO SPECIFICATIONS FOR COMPLETER INSTALLATION. 4. ALL WORK SHALL BE PLANNED AND COORDINATED WITH THE AFFECTED UTILITY ALL WORK SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED ELECTRICAL CONTRACTOR. 6. UTILITY PROVIDER WILL BE RESPONSIBLE FOR SECTIONALIZING AND DE-ENERGIZING 7. ALL AFFECTED OUTAGE CUSTOMERS SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE. OUTAGE SHALL BE KEPT TO A MAXIMUM OF 2 HOURS PER HOUSEHOLD. 8. ALL MATERIALS SHALL BE IN ACCORDANCE WITH N.E.C. REQUIREMENTS. 9. CONTRACTOR SHALL UTILIZE ALL SAFETY PROCEDURES PER NATIONAL ELECTRIC SAFETY CODE AND O.S.H.A. 10. ELECTRICAL CABLES DAMAGED DUE TO UNCOVERING CONDUCTORS, THE UTILITY PROVIDER SHALL REPAIR AT THE CONTRACTOR'S EXPENSE. FAYETTEVILLE PUBLIC WORKS COMMISSION NO. DATE REVISION ELECTRICAL NOTES DETAIL 07/23/03 DELETED NOTE 1 AND RENUMBERED SHEET FAYETTEVILLE, N.C. DWG. NO. M.9 DWG. BY: FAYPWC WATER RESOURCES ENGINEERING DEPARTMENT





PROJECT REFERENCE NO. SHEET NO. CDM Smith Inc. 5400 Glenwood Avenue U-3422 UC-03 I Suite 400 Smith Suite 400 Raleigh, NC 27612-3228 NC COA No. F-1255 — Signed by:

Michael M. Pollard

— SERL

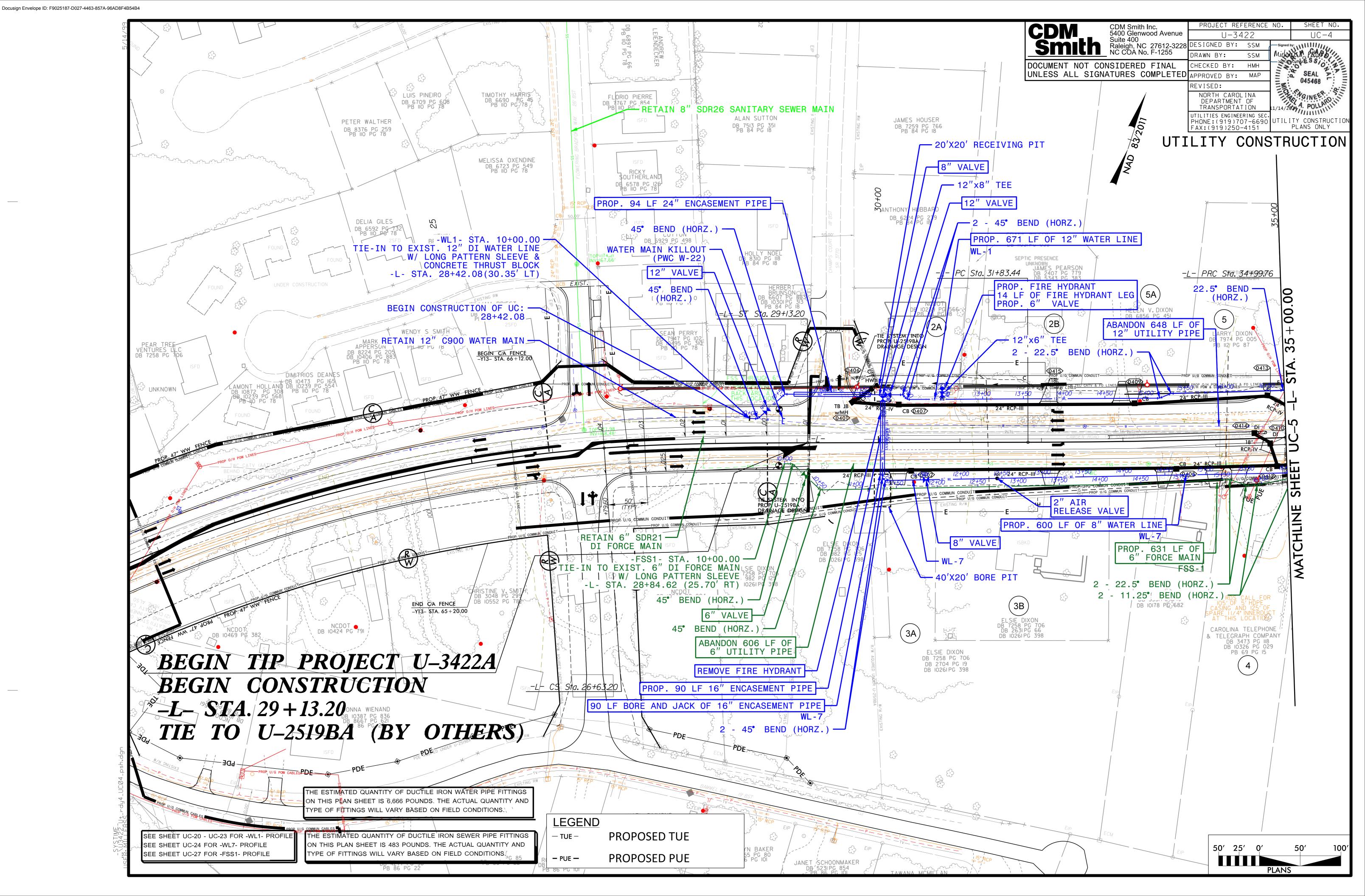
— OA5468 ESIGNED BY: SSM RAWN BY: SSM DOCUMENT NOT CONSIDERED FINAL HECKED BY: HMH UNLESS ALL SIGNATURES COMPLETED APPROVED BY: MAP 045468 REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC UTILITY CONSTRUCTION PHONE:(919)707-6690 FAX:(919)250-4151

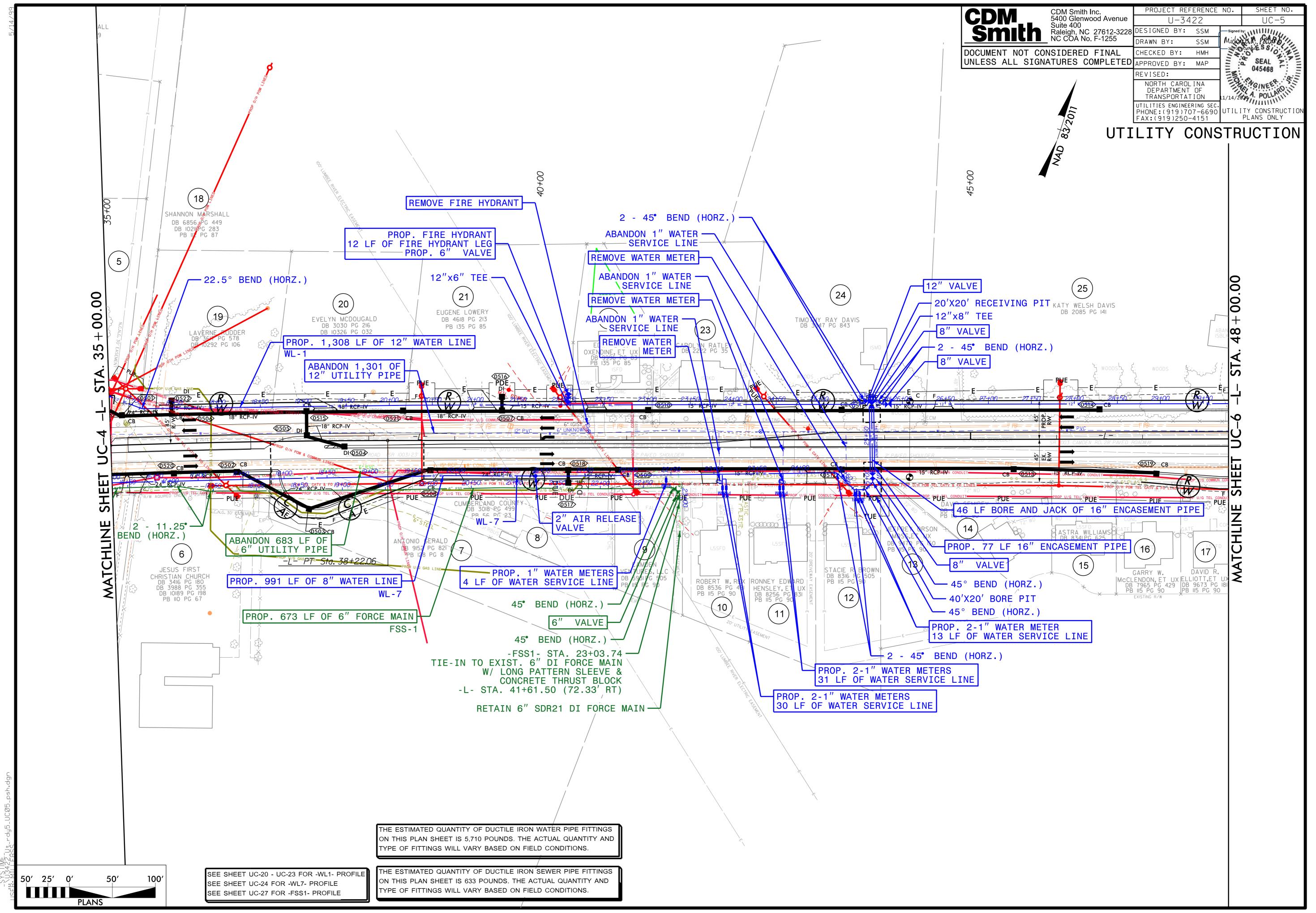
#### UTILITY CONSTRUCTION

PLANS ONLY

NOTE:

ANY REFERENCE TO FAYPWC PROJECT COORDINATOR, PWC COORDINATOR OR FAYPWC (FAYETTEVILLE PUBLIC WORKS COMMISSION) SHALL BE INTERPRETTED AS A REFERENCE TO THE ENGINEER.





**CDM** Smith Suite 400 Raleigh, NC 27612-3228 NC COA No. F-1255 DOCUMENT NOT CONSIDERED FINAL

CDM Smith Inc. 5400 Glenwood Avenue

ESIGNED BY: SSM RAWN BY: SSM CHECKED BY: HMH UNLESS ALL SIGNATURES COMPLETED PPROVED BY: MAP

U-3422

REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151

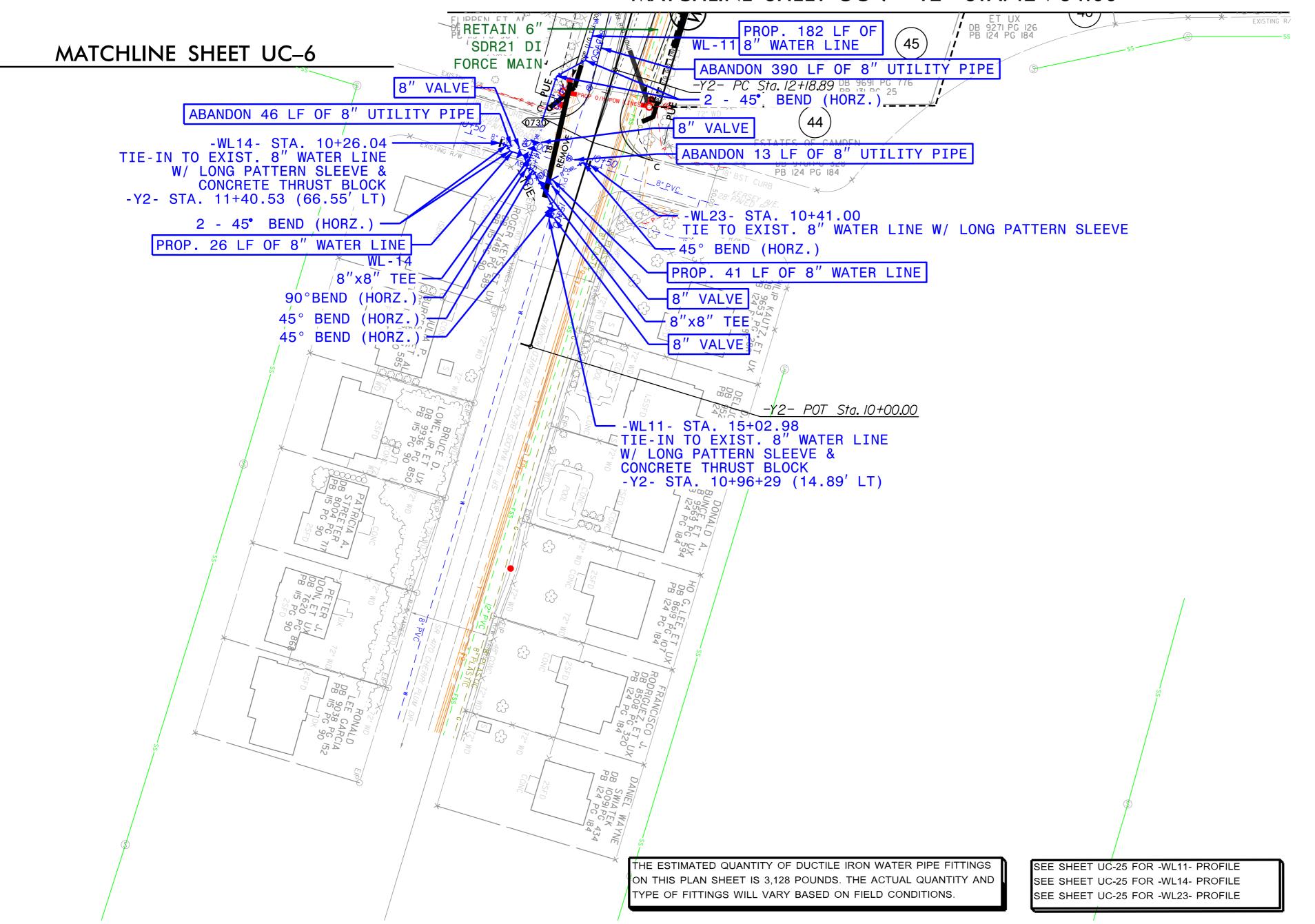
SEAL 045468 UTILITY CONSTRUCTION
PLANS ONLY

SHEET NO.

UC-7A

UTILITY CONSTRUCTION

#### MATCHLINE SHEET UC-7 -Y2- STA. 12 + 64.00



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