



FAYETTEVILLE PUBLIC WORKS COMMISSION

PROCUREMENT DEPARTMENT

<https://www.faypwc.com/bids/>

Bid Addendum

PWC Number: PWC2223045

Bid Title : Buckhead Subdivision Water Main Looping

Bid Opening Date and Time: July 6, 2023, @ 2:00

Addendum Number: 1

Addendum Date: June 22, 2023

Procurement Advisor: *Tanya Hazlett*
tanya.hazlett@faypwc.com

1. The solicitation is hereby modified as follows:

M1. Buckhead Revised Drawings are attached.

M2. Section: 01000 Supplementary Conditions number 38.

38. PROTECTION OF PROPERTY

Upon request from the property owner, the Contractor shall remove and set aside those plantings identified by the property owner. All plantings to be salvaged shall be placed at the edge of the existing easement. It will be the property owner's responsibility to re-plant those items saved.

Tree branches and ornamental shrubbery shall be temporarily tied back to avoid damage. Damage to trees shall be trimmed and treated with a tree dressing.

The drill entry area mud pit size depends on conditions. The trenched waterline will likely disturb the dripline of the Oak of the Shah property. If the dripline of the Oak is disturbed, the tree should be removed. ~~and replaced.~~

M3. Include the cost for oak tree removal in the water main by HDD installation price lines (2.01 and 2.02).

M4. Appendix D- PWC GIS drawing showing the approximate locations select existing utilities in the project area.

2. Following are questions received about the solicitation and the SME's answers to the questions.

Q1. Is there a contingency?

o A1: Yes, please see the revised bid form attached, showing a \$20,000 contingency.

Q2. Does the PWC agreement with the owner include cost to replace?

o A2: No, if needed the tree should be removed as stated in the above modified supplementary conditions number 38.

Addendum Number: 1

Failure to acknowledge receipt of this addendum may result in rejection of the response.

Check ONE of the following options:

- Bid has not been mailed. Any changes resulting from this addendum are included in our bid response.
- Bid has been mailed. No changes resulted from this addendum.
- Bid has been mailed. Changes resulting from this addendum are as follows:

Execute Addendum:

Offeror: _____

Authorized Signature: _____

Name and Titled (Typed): _____

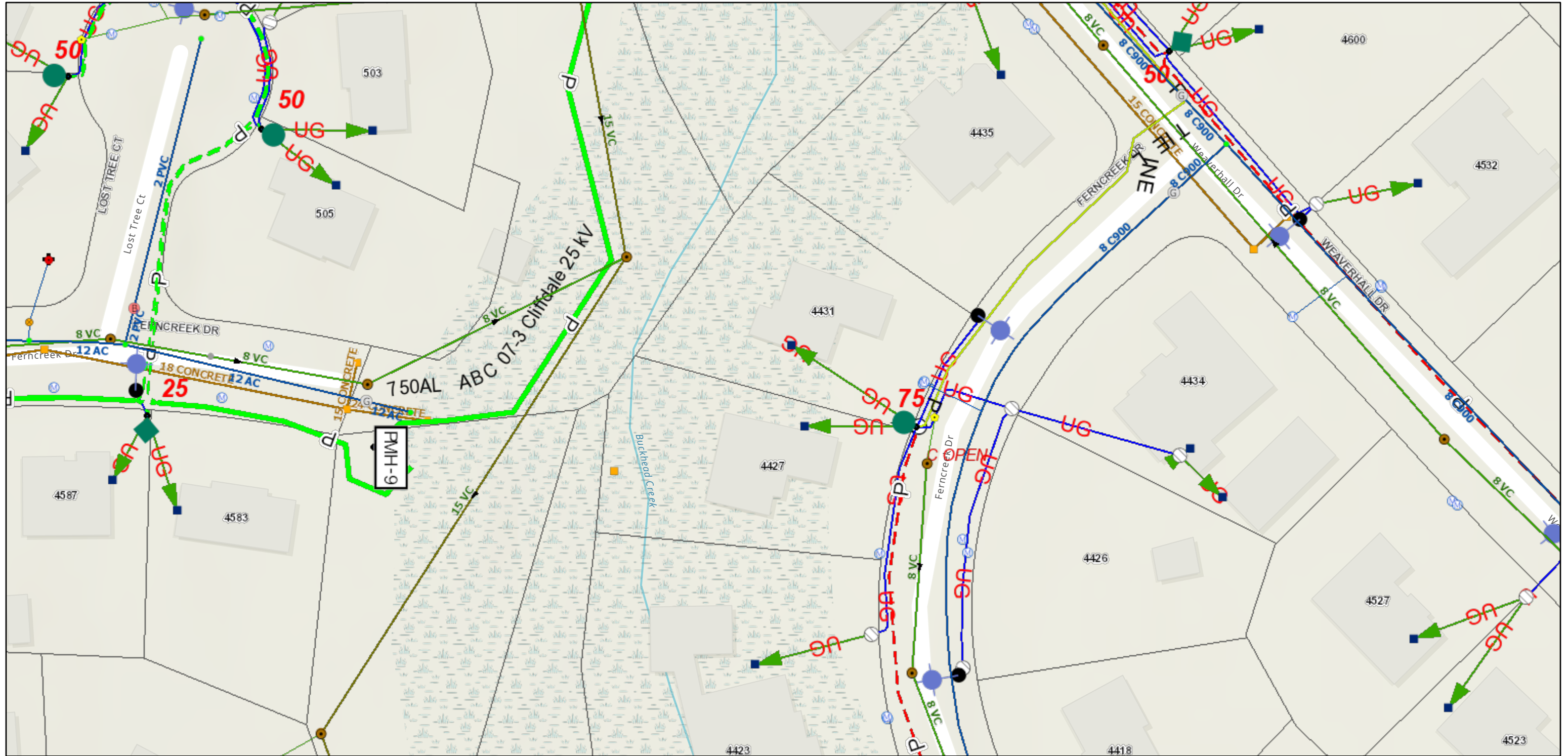
Date: _____



BID PRICING FORM

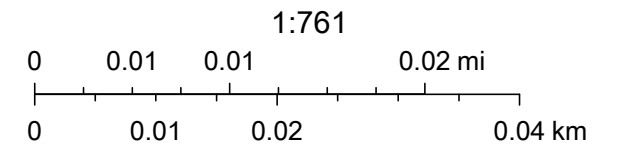
Line Item #	Reference to Section 01025 Measurement & Payment Description	Estimated Quantity	Unit	Unit Price	Total Price
INCIDENTAL ITEMS					
1	1.01 Mobilization	1	L.S.		
2	1.02 Traffic Plan and Traffic Control	1	L.S.		
3	1.03 Erosion & Sedimentation Control	1	L.S.		
4	1.04 Clearing & Grubbing	0.2	Ac.		
5	1.05 Select Material (Backfill)	50	C.Y.		
6	1.06 Remove & Replace Curb & Gutter – Concrete	10	L.F.		
7	1.07 Permanent Asphalt Patch	10	S.Y.		
8	1.08 Permanent Seeding	.2	A.C.		
9	1.09 Permanent Sod	220	S.Y.		
BASE WATER CONSTRUCTION ITEMS					
10	2.01 Furnish and Install Water Main by Horizontal Directional Drill – 8” Fusible C900 PVC	1	L.S		
11	2.03 Furnish and Install Water Main by Open Trench – 8” Restrained Joint Ductile Iron	172	L.F.		
12	2.03 Furnish and Install Water Main by Open Trench – 12” Restrained Joint Ductile Iron	5	L.F.		
13	2.04 Furnish and Install Water Main by Direct Bore – 8” Restrained Joint Ductile Iron	20	L.F.		
14	2.05 Furnish and Install New Tapping Sleeve & Valve – 8”x8”	1	Ea.		
15	2.06 Furnish and Install New Gate Valve – 12”	1	Ea.		
16	2.07 Sterilization and Testing – Water	385	L.F.		
ALTERNATE WATER CONSTRUCTION ITEMS					
17	2.02 Furnish and Install Water Main by Horizontal Directional Drill – 10” DR9 HDPE	1	L.S		
18	2.03 Furnish and Install Water Main by Open Trench – 8” Restrained Joint Ductile Iron	122	L.F.		
19	2.03 Furnish and Install Water Main by Open Trench – 12” Restrained Joint Ductile Iron	5	L.F.		
20	2.04 Furnish and Install Water Main by Direct Bore – 8” Restrained Joint Ductile Iron	20	L.F.		
21	2.05 Furnish and Install New Tapping Sleeve & Valve – 8”x8”	1	Ea,		
22	2.06 Furnish and Install New Gate Valve – 12”	1	Ea.		
23	2.07 Sterilization and Testing – Water	385	L.F.		
ALLOWANCES					
24	3.01 Contingency	1	L.S.	\$20,000..00	

Buckhead Subdivision Water Main Looping Project_20230613_PWC GIS Existing Utilities



6/14/2023, 1:08:33 PM

- | | | |
|------------------------------|--------------------------|-------------------------|
| Sludge Sewer Main | Gravity Main Interceptor | Air Release Valve |
| Sewer Force Main | Gravity Main Private | Cutoff Valve |
| Force Mains | Sewer Network Structure | Check Valve |
| Abandoned Mains | Lift Station | Sewer System Valve |
| Sewer Gravity Main Abandoned | Sludge Pump Station | Sewer Lateral |
| Sewer Gravity Main | Sewer Fitting | Sewer Lateral |
| Gravity Main Collector | Sewer Control Valve | Sewer Lateral Private |
| Gravity Main Outfall | Control Vale | Sewer Lateral Abandoned |



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PWC - Web AppBuilder for ArcGIS

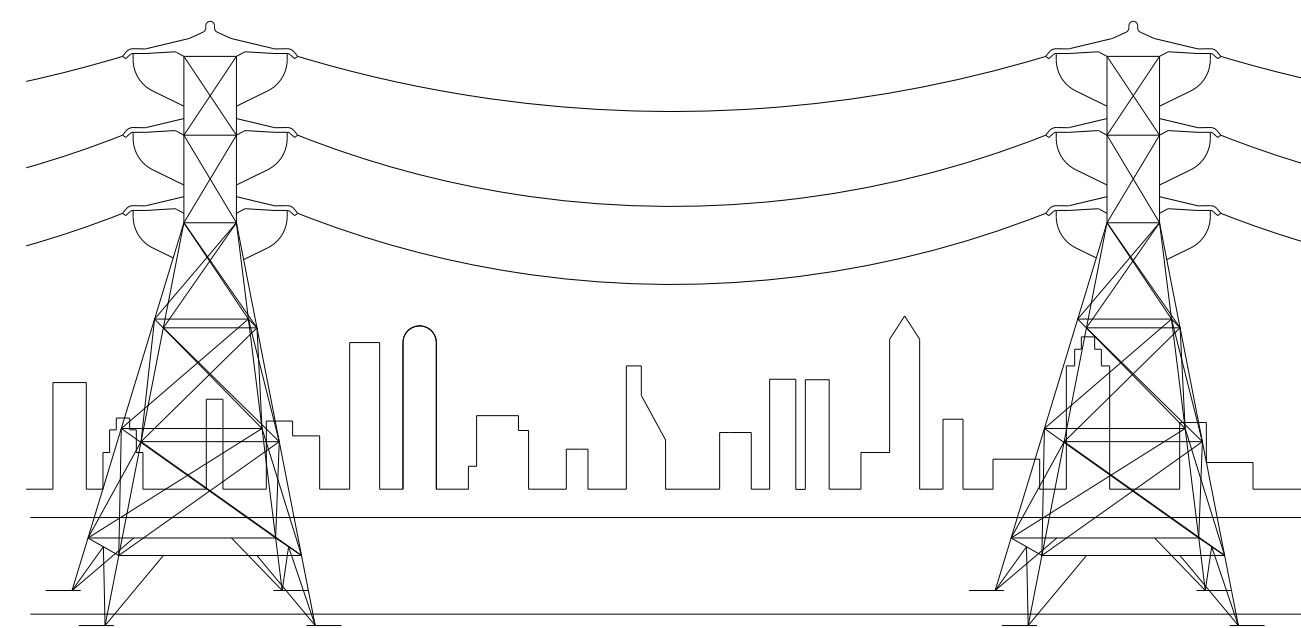
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DATE	REVISIONS	BY
06/24/2021	PER FAYPWC COMMENTS & ALTERNATE	CAC
	HEAD DESIGN	

SHEET SERIES

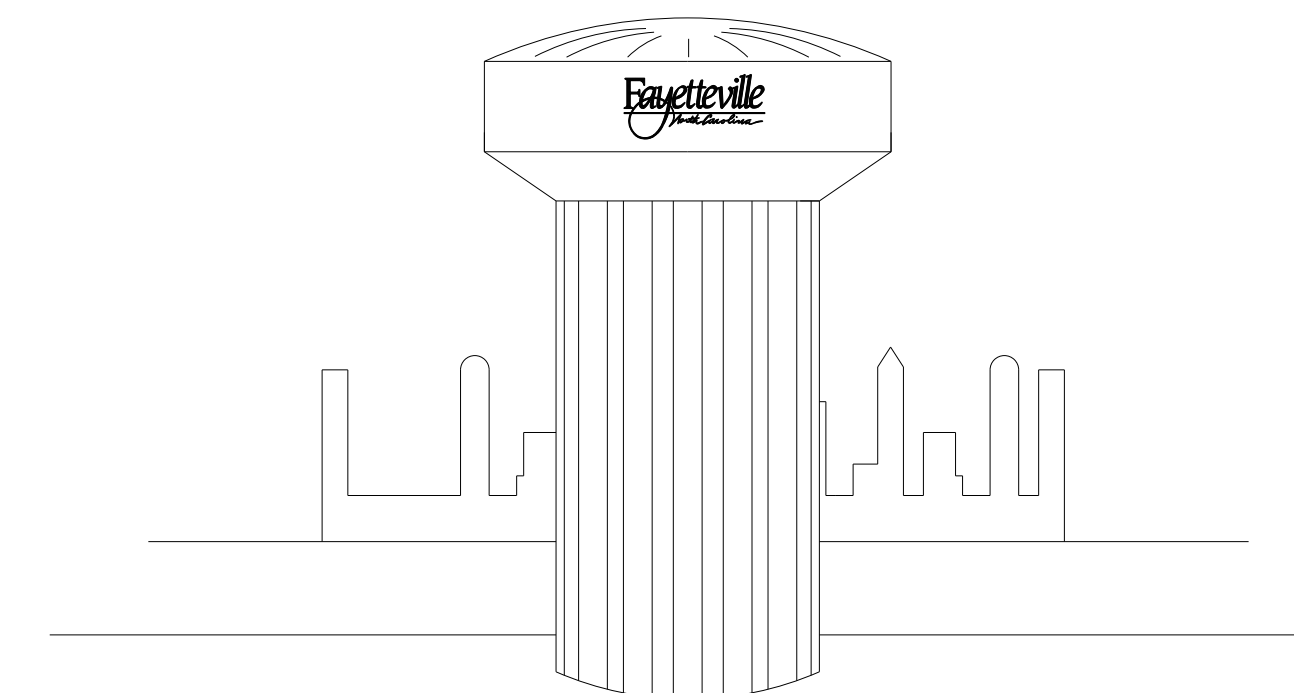
PUBLIC WORKS COMMISSION

FAYETTEVILLE, N.C.



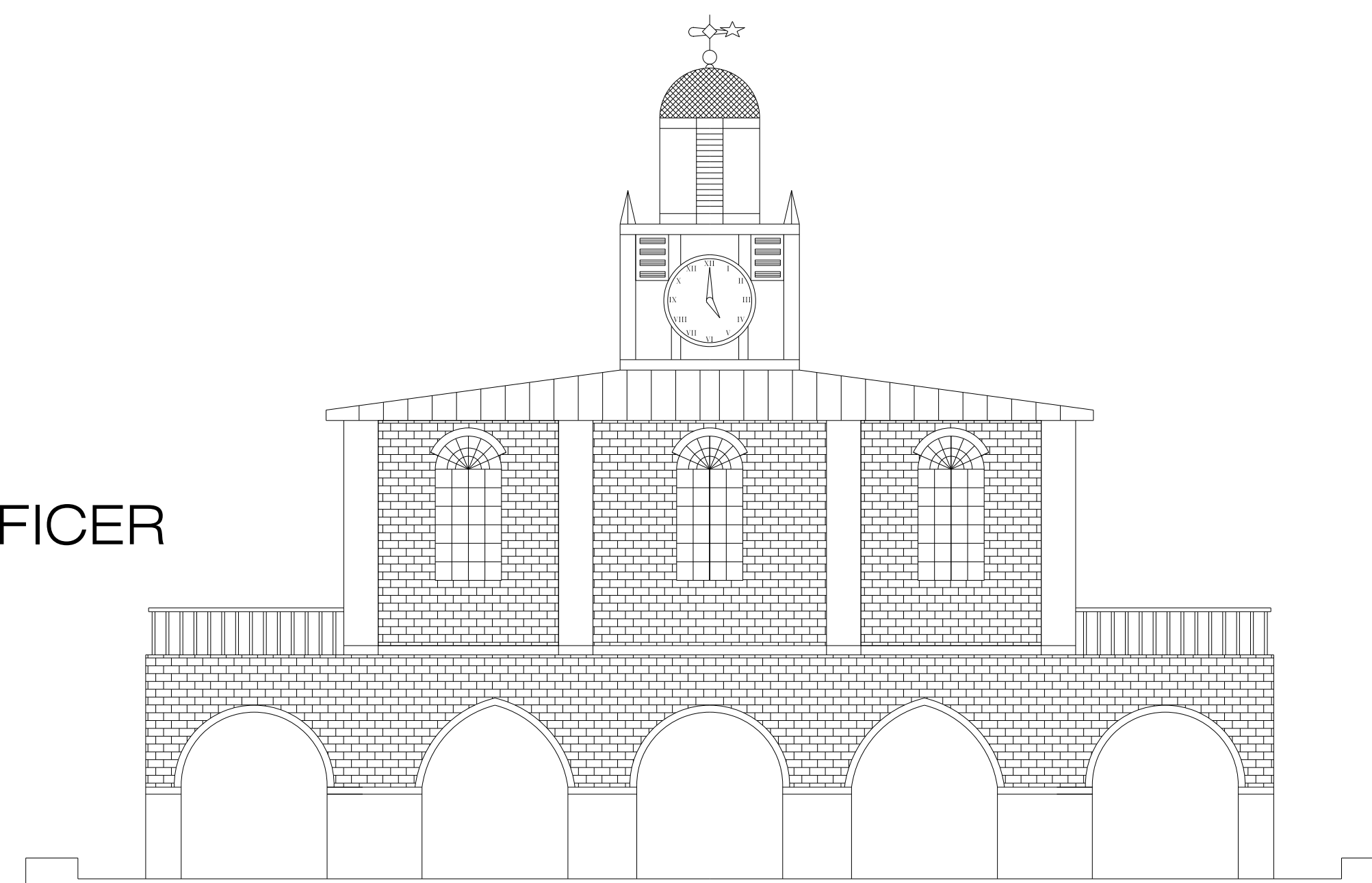
ELECTRICAL

JON RYNNE -ELEC. SYS. CHIEF OPER. OFFICER



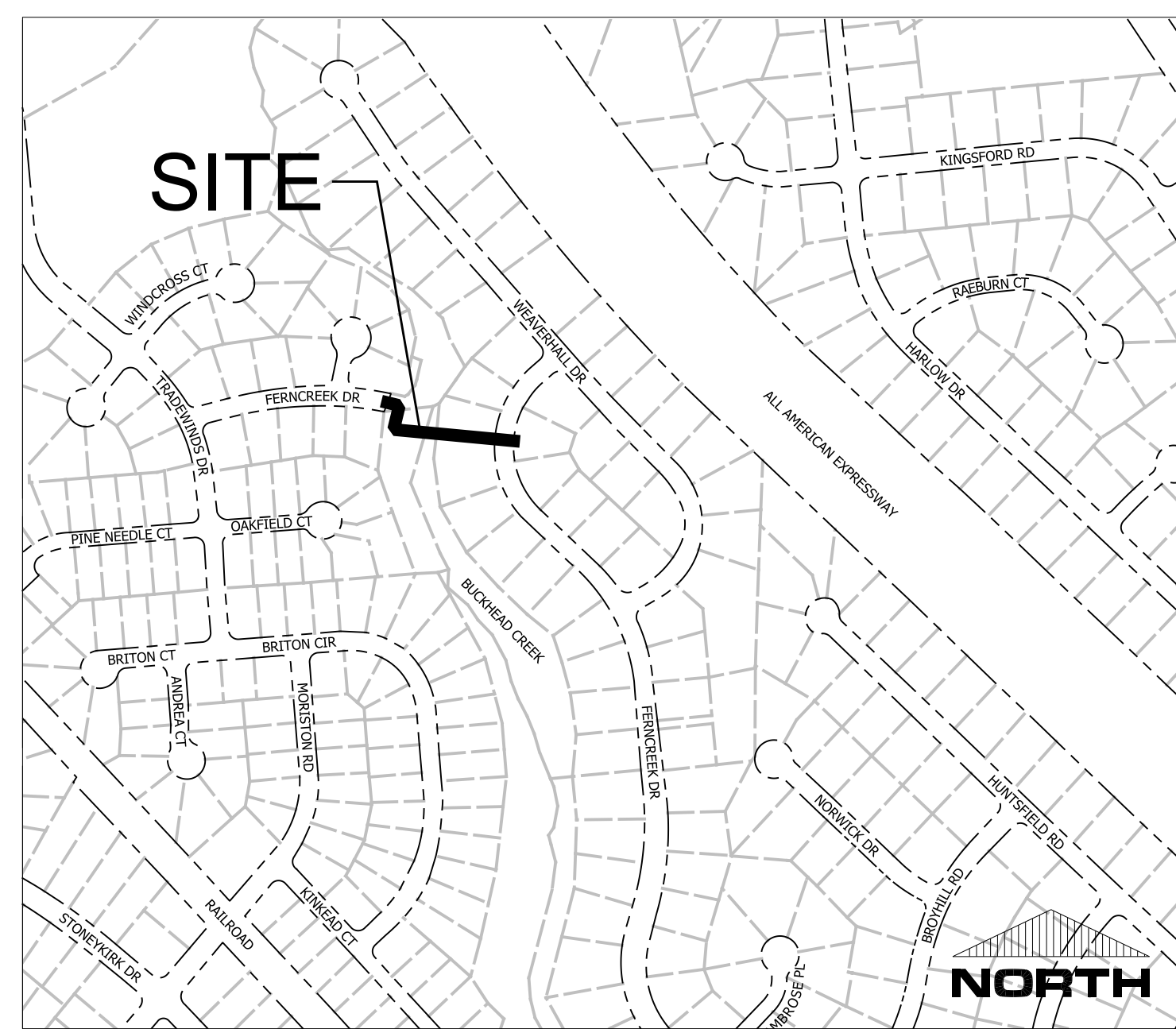
WATER RESOURCES

JOHN ALLEN-W/R CHIEF OPER. OFFICER
MISTY MANNING-W/R ENGR. MANAGER



FAYPWC COMMISSIONERS

Chairperson - **RONNA ROWE GARRETT**
 Vice Chairperson - **DONALD L. PORTER**
 Secretary - **EVELYN O. SHAW**
 Treasurer - **CHRISTOPHER DAVIS**
 CEO/General Manager - **MICK NOLAND**



VICINITY MAP
NOT TO SCALE



Know what's below.
Call before you dig.

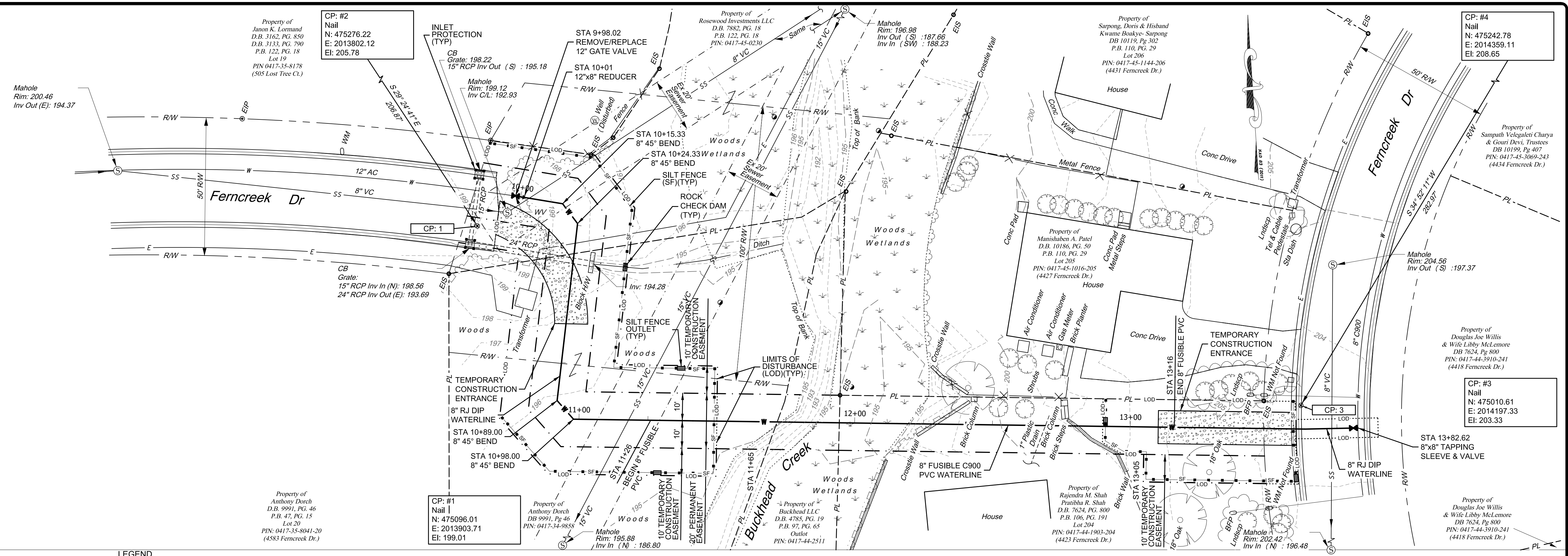
SHEET INDEX

1	FAYPWC COVER SHEET
2	W1 (FERNCREEK DR PLAN & PROFILE, FUSIBLE PVC BY HDD)
3	W2 (FERNCREEK DR PLAN & PROFILE, HDPE BY HDD)
4	D1 (STANDARD DETAILS)
5	D2 (STANDARD DETAILS)
6	D3 (STANDARD DETAILS)

BUCKHEAD / FERNCREEK DR WATERLINE LOOPING



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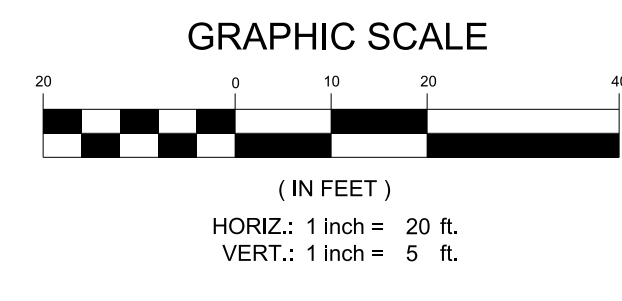


LEGEND	
PROPERTY LINE	---
EDGE OF PAVEMENT	====
BACK OF CURB	----
STORM PIPE	----
EX. WATER MAIN	SS
EX. SS MAIN	SS
PROP. SS MAIN	SS
PROP. WATER MAIN	W
PERMANENT EASEMENT	---
TEMPORARY EASEMENT	---
FENCE	---
EX. UTIL. LINES	---
TREELINE	---
DITCH	---
EX.PROP. GATE VALVE	---
AIR RELEASE VALVE	---
CATCH BASIN/DROP INLET	---
EX.PROP. SSMH	---
EX.PROP. STORM MH	---
EX.PROP. UTILITY MH	---
EX.PROP. STORM MH	---
GAS VALVE	---
EX.PROP. PLUG	---
EX.PROP. BLOW-OFF	---
POWER & LIGHT POLE/GUY WIRE	---
EX.PROP. WATER METER	---
EX.PROP. FIRE HYDRANT	---
UTILITY PEDESTALS	---
LIFT STATION	---
EX.PROP. CLEAN OUT	---
SIGNAL TRAFFIC BOX	---
MAILBOX	---
TREE/SHRUB	---
TEMPORARY BENCHMARK (TBM)	---

The horizontal coordinate system for this project is a localized based on applying factor to US survey feet grid measurements from a strategic location referenced to the NAD 83 (2011) projection of the NC State Plane Coordinate System and a strategic elevation referenced to NAVD 88 datum.

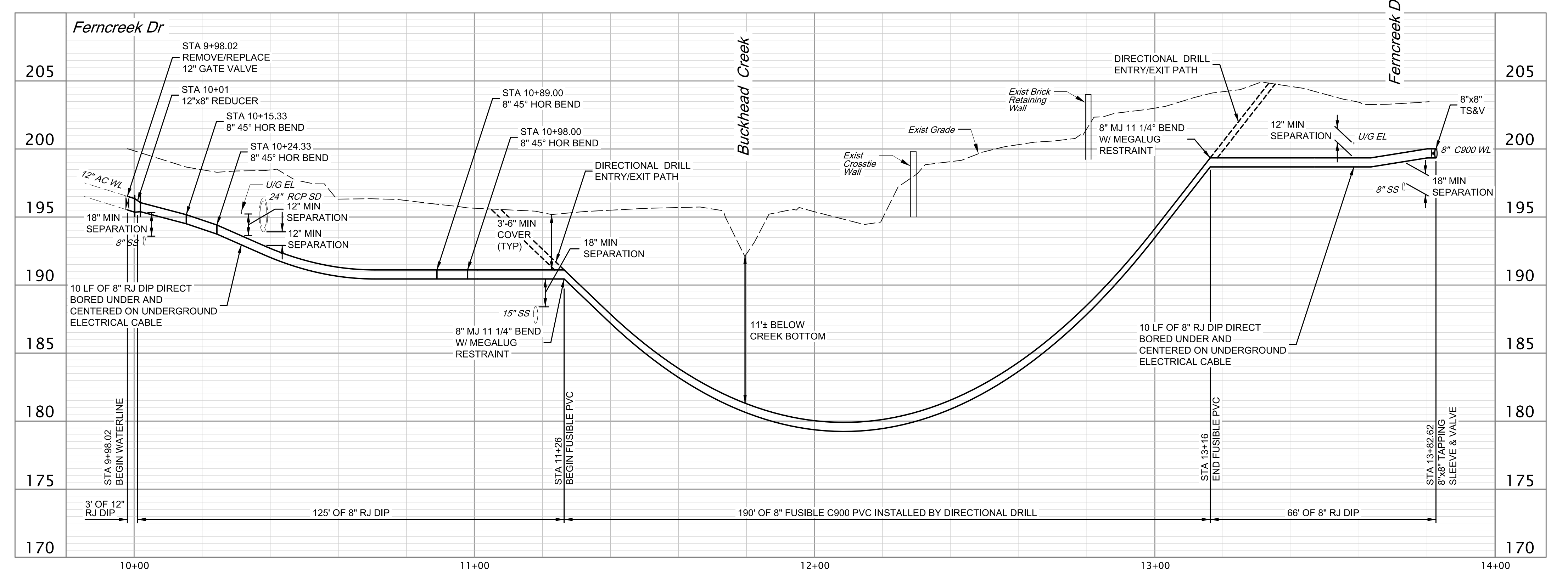
The factor applied is computed by dividing 1 by the combined factor of the strategic position. The combined factor is the scale factor of the strategic horizontal location multiplied by the ellipsoid factor of the strategic elevation.

The specifics for this localized project coordinate system are:
 Strategic NC State Plane 140D 83 (2011) Horizontal Coordinates
 North - 475,100 sFT
 East - 2,014,100 sFT
 Strategic NAVD 88 Elevation = 200 sFT
 Combined Factor = 0.999874096
 1/Combined Factor = 1.0001259253



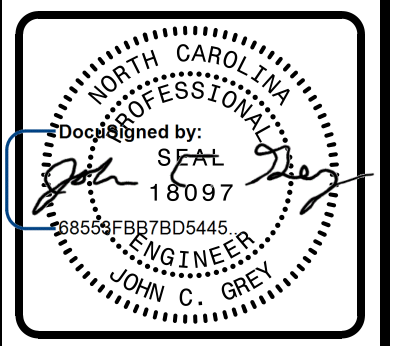
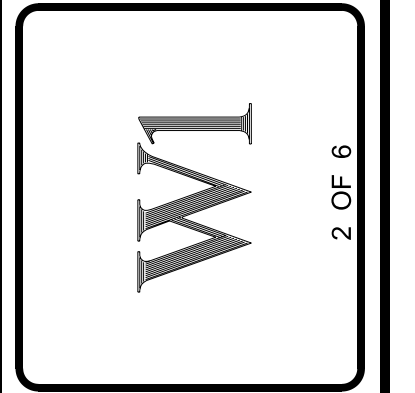
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- UTILITY CONSTRUCTION NOTES:**
- ALL WATER MAINS, LATERALS AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
 - ALL SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS.
 - CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR ALL WATER OUTAGES.
 - CONSTRUCTION STAKING IS REQUIRED FOR ALL PWC WATER AND SEWER UTILITY INSTALLATIONS. CUT SHEETS, SIGNED AND SEALED BY A NC PLS, SHALL BE PROVIDED TO THE PWC WATER RESOURCES ENGINEERING DEPARTMENT AND THE CONTRACTOR IN ADVANCE OF CONSTRUCTION FOR PWC WATER AND SEWER UTILITIES.
 - CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON PWC 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 FAYETTEVILLE PWC STANDARDS PRIOR TO PLACING INTO SERVICE.
 - CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYETTEVILLE PWC PROJECT COORDINATOR.
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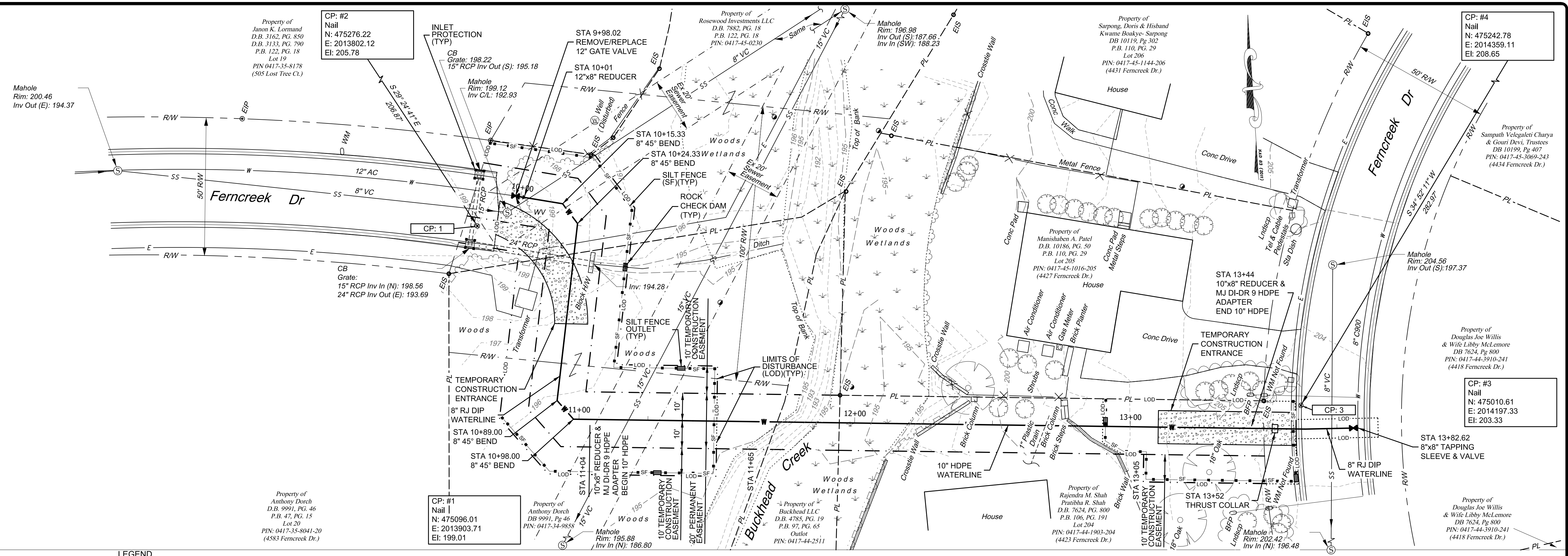
DATE	BY	REVISIONS
06/24/2021	ALTERNATE HDD DESIGN	CHG
08/14/2023	REPRINTED FOR NOTE CLARITY	JCG

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SURVEY/DATE BY:	TWC
DRAWN BY:	CBL
CHECKED BY:	JCG
SCALE:	HOR: 1"=20' VERT: 1"=5'



BUCKHEAD / FERNCREEK DR
WATERLINE LOOPING
FUSIBLE PVC BY DIRECTIONAL DRILLING
FERNCREEK DR PLAN & PROFILE

FAYETTEVILLE
 PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING
 P.O. Box 1088, Fayetteville, NC 28402
 955 Old Wilmington Road, Fayetteville, NC 28301

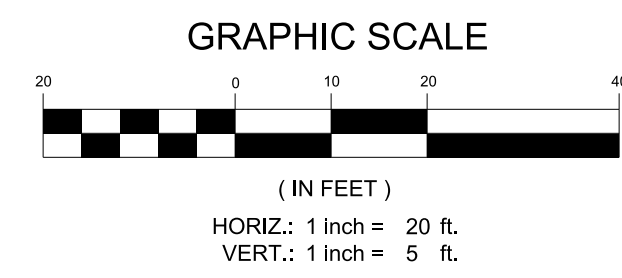


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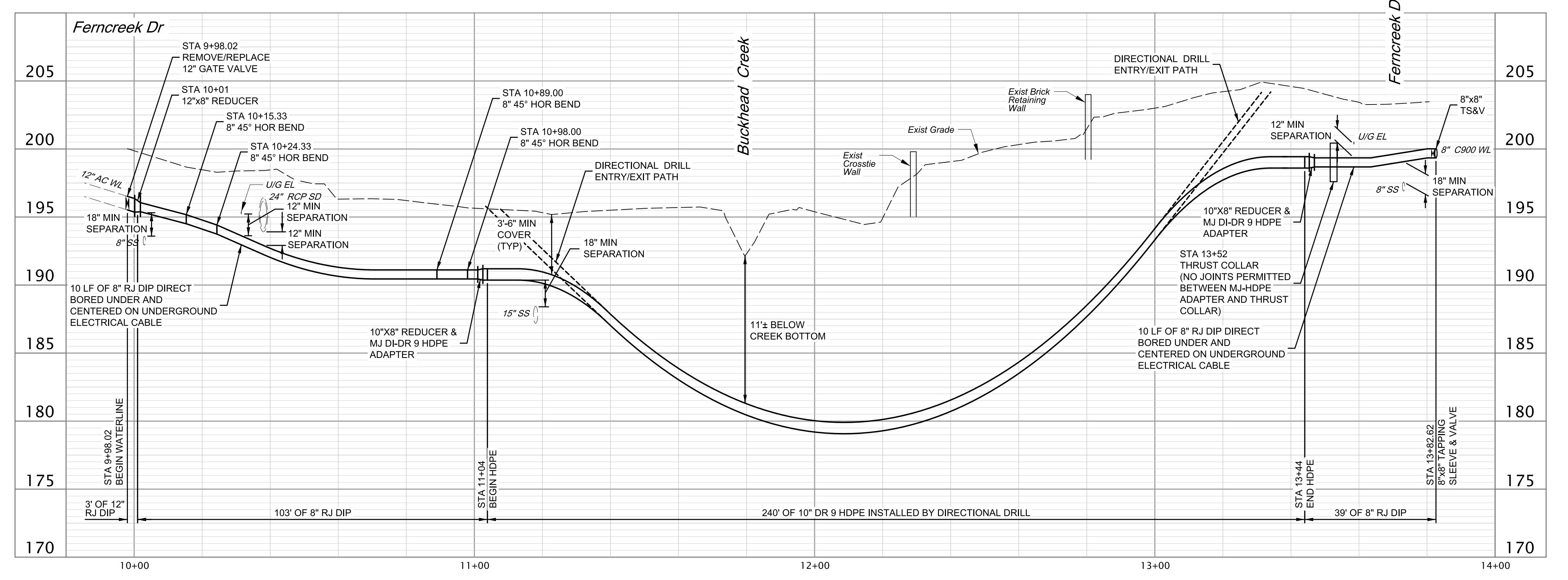
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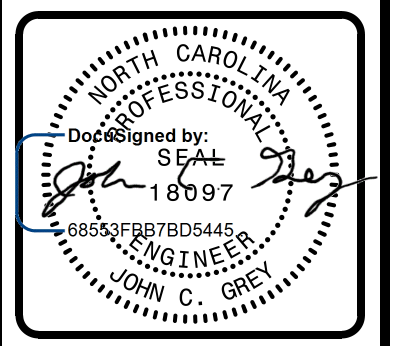
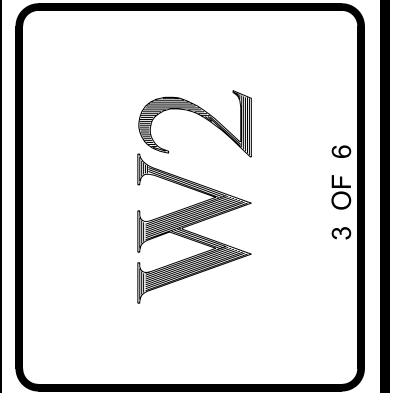
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REVISION	DATE	BY	CHK
06/24/2021		PER EXPLANATION	JCG
08/14/2023		REPRINTED FOR NOTE CLARITY	JCG

DATE:	APRIL 2019
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BUCKHEAD / FERNCREEK DR
WATERLINE LOOPING
HDPE BY DIRECTIONAL DRILLING
FERNCREEK DR PLAN & PROFILE

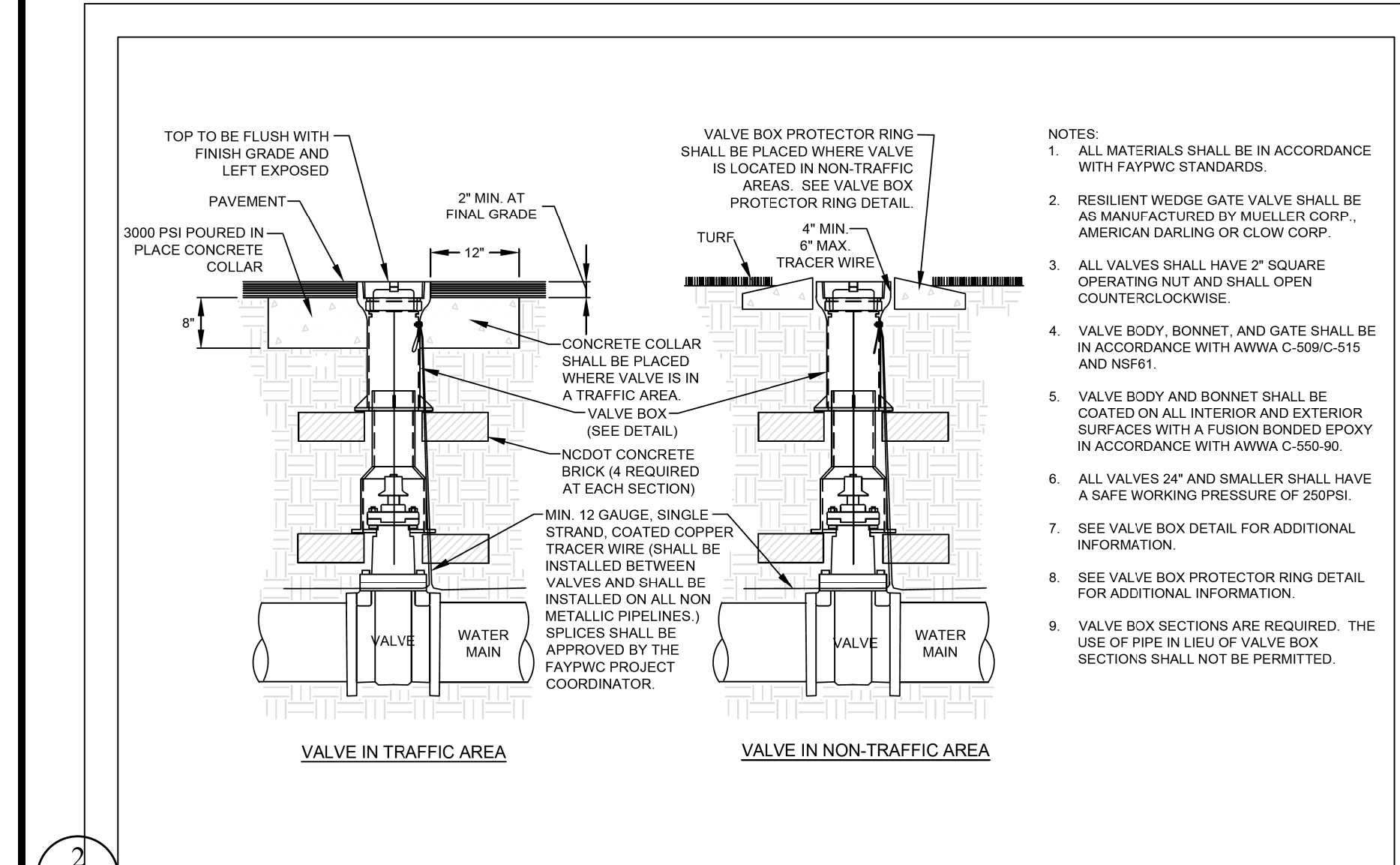
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WATER RESOURCES ENGINEERING
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 955 Old Wilmington Road, Fayetteville, NC 28301

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- CONTRACTOR SHALL MAINTAIN A COPY OF THE SIGNED AND SEALED CUT SHEET ON THE JOB SITE. CONSTRUCTION ON PWC 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 DISPECTED IN ACCORDANCE WITH FAYETTEVILLE PWC STANDARDS PRIOR TO PAVING INTO SERVICE.
- CONTRACTOR SHALL COORDINATE TESTING AND INSPECTION WITH THE FAYETTEVILLE PWC PROJECT COORDINATOR.
- CONTRACTOR SHALL REPAIR ALL WATER LATERALS AND MAINS DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT IMMEDIATELY ALL WATER MAIN AND LATERAL BREAKS TO THE PWC PROJECT COORDINATOR. THE CONTRACTOR SHALL INITIATE IMMEDIATE WORKING ORDER. ALL EQUIPMENT IS TO BE OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL NOT OPERATE PWC WATER MAIN VALVES WITHOUT PWC APPROVAL AND SHALL COORDINATE ALL VALVE CLOSURES WITH PWC.
- THE CONTRACTOR SHALL NOT USE HOUSE HOSE BIBBS OR ANY OTHER METHOD OF BLOW OFF WHICH ALLOWS DOMESTIC WATER CONTAINING SEDIMENTS OR HIGH LEVELS OF CHLORINE TO PASS THROUGH RESIDENTS METERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM ALLOWING "DIRTY" WATER TO ENTER RESIDENTS' PLUMBING SYSTEMS, SUCH AS WATER HEATERS, STAINED CLOTHING, CLOGGED SCREENS, ETC.
- TRANSFER OF WATER SERVICES SHALL BE ACCOMPLISHED AS FOLLOWS:
 - INSTALL TEST AND CROSS UNDER NEW MAIN AND LATERALS. LATERALS SHALL BE INSTALLED 18" INSIDE RIGHT-OF-WAY UNLESS OTHERWISE DIRECTED BY PWC.
 - TRANSFER EXISTING METER TO NEW METER BOX AND THE 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 TRANSFERRED.
 - AFTER ALL SERVICES ARE TRANSFERRED TO THE NEW SYSTEM, SHUT OFF VALVE ON EXISTING SYSTEM AND ABANDON EXISTING MAINS IN ACCORDANCE WITH PWC DETAILS.
 - CONTRACTOR SHALL SUPPLY NEW METER BOXES AND DISPOSE OF EXISTING METER BOXES.
- CONTRACTOR SHALL ABANDON "KILL-OUT" ANY EXISTING WATER SERVICES THAT WILL NOT BE UTILIZED BY CUTTING THE SERVICE AT THE MAIN. PLUGGING THE CONNECTION AND TURNING OFF THE CONNECTION AT THE METER BOX. THE ABANDONED SERVICE IS TO BE CUT OR GRIPPED, AND BURIED A MINIMUM OF 3 FEET BELOW GRADE.
- ALL EXISTING UTILITIES IMPACTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISHED GRADE IN ACCORDANCE WITH PWC REQUIREMENTS.
- ALL WORK ON PWC WATER UTILITIES (MANS, LATERALS, ETC) SHALL BE PERFORMED BY A LICENSED UTILITY CONTRACTOR. THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL OBSERVE AND APPROVE ALL WORK ON PWC WATER UTILITIES. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH PWC REQUIREMENTS.
- SEPARATION REQUIREMENTS:
 - LATERAL SEPARATION OF SEWERS AND WATER MAINS: WATER MAINS SHALL BE LAD AT LEAST 18" HORIZONTALLY FROM LEVEL ON PROPOSED SEWER MANHOLE. UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 18" HORIZONTAL SEPARATION. IN ACCORDANCE WITH PWC STANDARDS.
 - IF THE WATER MAIN IS LAD IN A SEPARATE TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MANHOLE, OR
 - IF THE WATER MAIN IS LAD IN THE SAME TRENCH AS THE SEWER MANHOLE 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 MANHOLE.
 - CROSSING A WATER MAIN OVER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER MANHOLE, THE WATER MAIN SHALL BE LAD AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MANHOLE. UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18" HORIZONTAL SEPARATION. IN ACCORDANCE WITH PWC STANDARDS.
 - CROSSING A WATER MAIN UNDER A SEWER: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MANHOLE, BOTH THE WATER MAIN AND SEWER SHALL BE INSTALLED IN ACCORDANCE WITH PWC REQUIREMENTS. A FULL JOINT OF DUCTILE IRON PIPE SHALL BE INSTALLED ON THE WATER MAIN CENTERED AT THE POINT OF CROSSING.

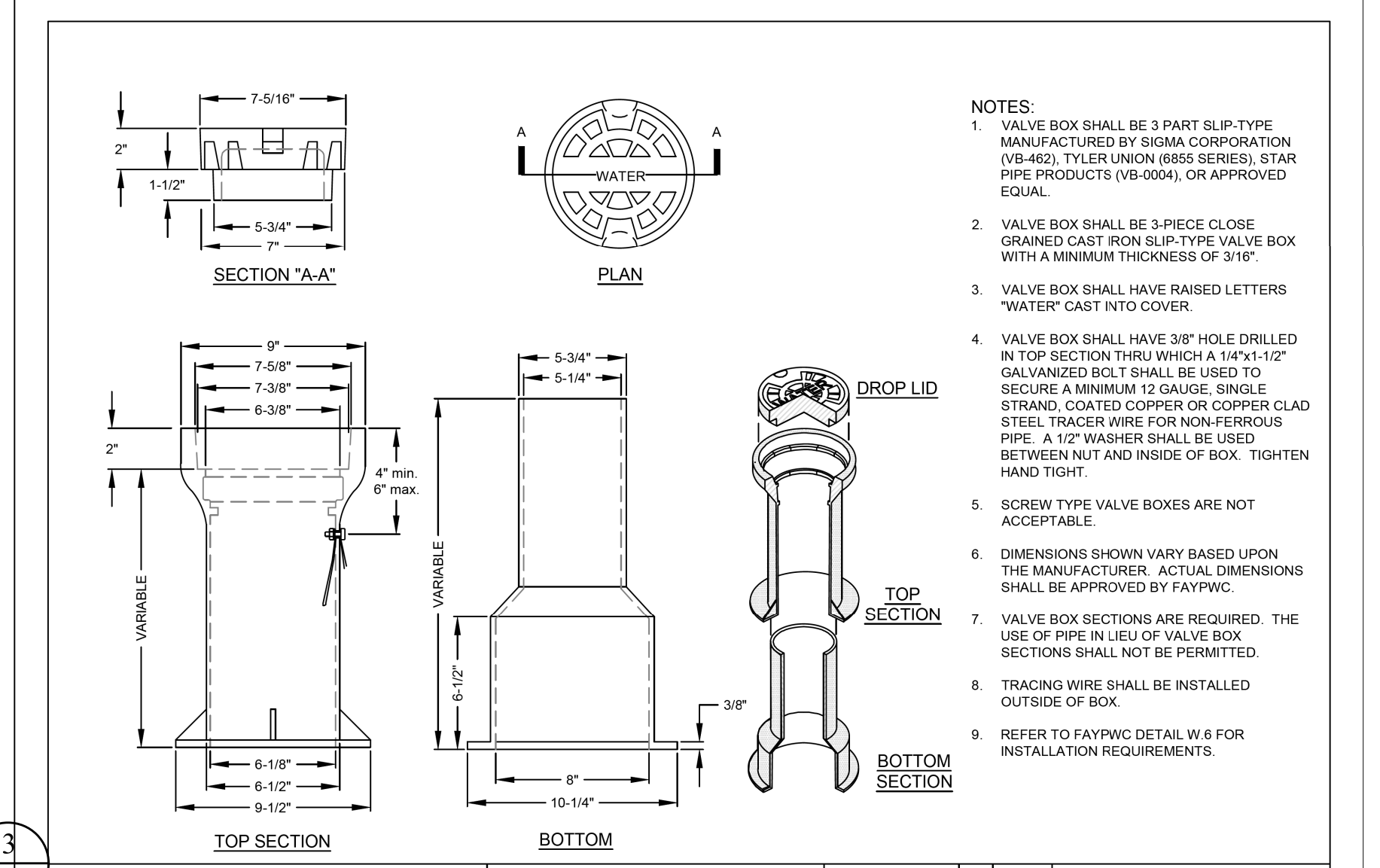
WATER UTILITY NOTES		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.1 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	07/01/16	ADDED NOTE 6
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	01/01/18	ADDED NOTES 6, 8
			3	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
			W1-WATER-UTILITY-NOTES.dwg		

- CROSSING STORM DRAINAGE LINES: A MINIMUM OF 12-INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN A WATER MAIN CROSSING OVER A STORM DRAINAGE LINE UNLESS DUCTILE IRON PIPE IS USED. IN ADDITION, THREE AND A HALF (3.5) FEET OF COVER SHALL BE MAINTAINED OVER THE WATER MAIN OR IT SHALL BE DUCTILE IRON. IF DUCTILE IRON PIPE IS USED THEN TWO AND A HALF (2.5) FEET OF COVER SHALL BE MAINTAINED OVER THE WATER MAIN AND A MINIMUM OF 4-INCHES OF VERTICAL CLEARANCE SHALL 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 PWC PROJECT COORDINATOR AND PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO ANY PLANNED WATER OUTAGE. THE COORDINATION MEETING 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 TO BE OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL NOT OPERATE PWC WATER MAIN VALVES WITHOUT PWC APPROVAL AND SHALL COORDINATE ALL VALVE CLOSURES WITH PWC.
- IF THE CONTRACTOR FAILS TO COMPLETE THE WORK WITHIN THE ALLOTTED TIME, THE FAYETTEVILLE PUBLIC WORKS COMMISSION SHALL ASSESS A PENALTY OF \$500 PER 15-MINUTE INTERVAL FOR EACH HOUR THAT THE SERVICE IS RESTORED. THIS PENALTY WILL BE DEDUCTED FROM THE CONTRACTOR'S PAY APPLICATION OR BE BILLED DIRECTLY TO THE CONTRACTOR. THE PENALTY WILL BE WAIVED FOR CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, AS DETERMINED BY THE FAYETTEVILLE PUBLIC WORKS COMMISSION. THE PWC PROJECT COORDINATOR AND/OR PROJECT ENGINEER RESERVE THE RIGHT TO CANCEL OR POSTPONE THE OUTAGE AT ANY GIVEN TIME, IF DEEMED NECESSARY.

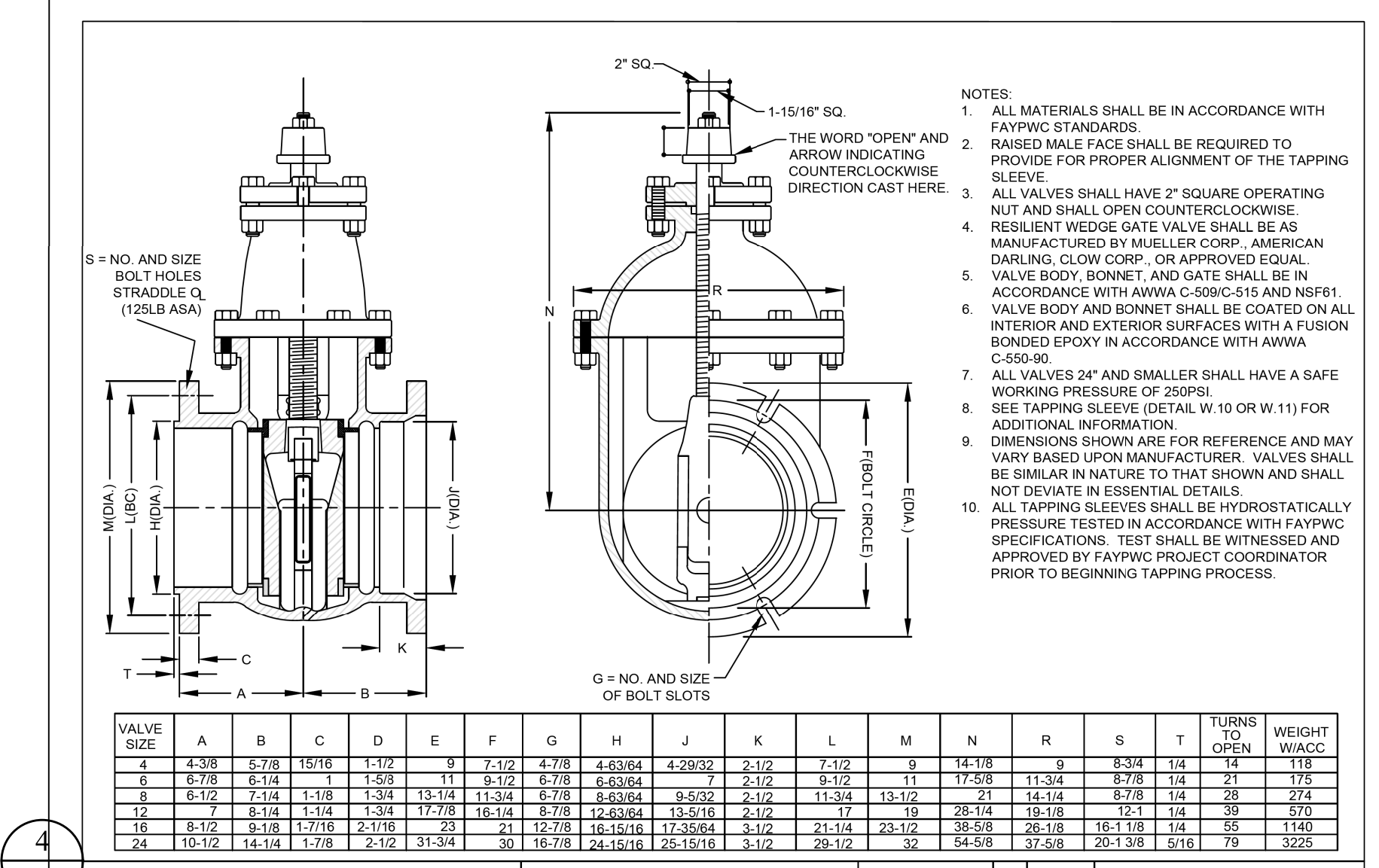
WATER UTILITY NOTES		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.1 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	07/01/16	ADDED NOTE 6
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	01/01/18	ADDED NOTES 6, 8
			3	06/01/21	ADDED NOTES 1-7 AND RENUMBERED
			W1-WATER-UTILITY-NOTES.dwg		



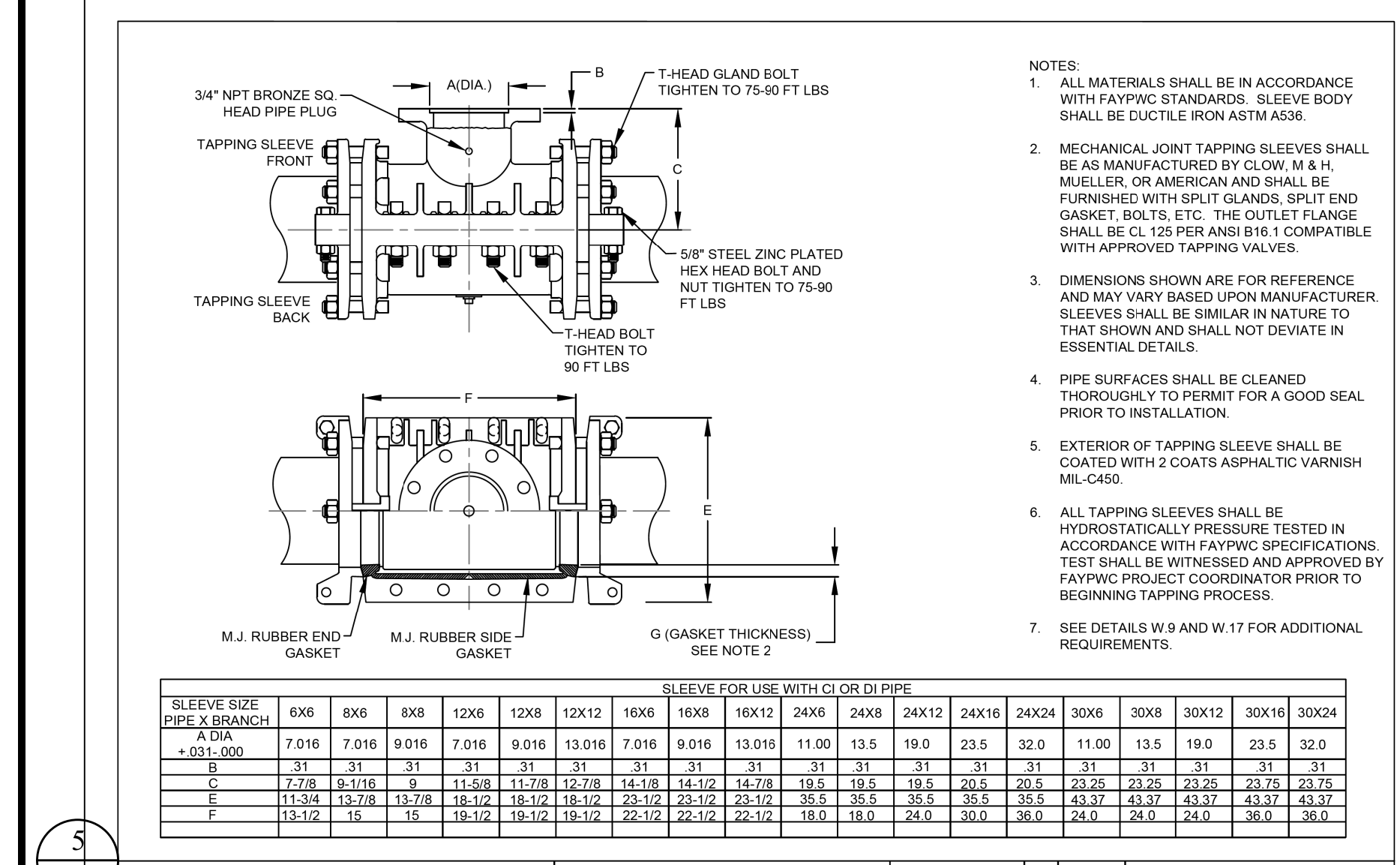
GATE VALVE N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.6 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	6/06	ADDED NOTE NO. 9
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	7/09	CLARIFIED NOTES
			W6-GATEVALVE.dwg		



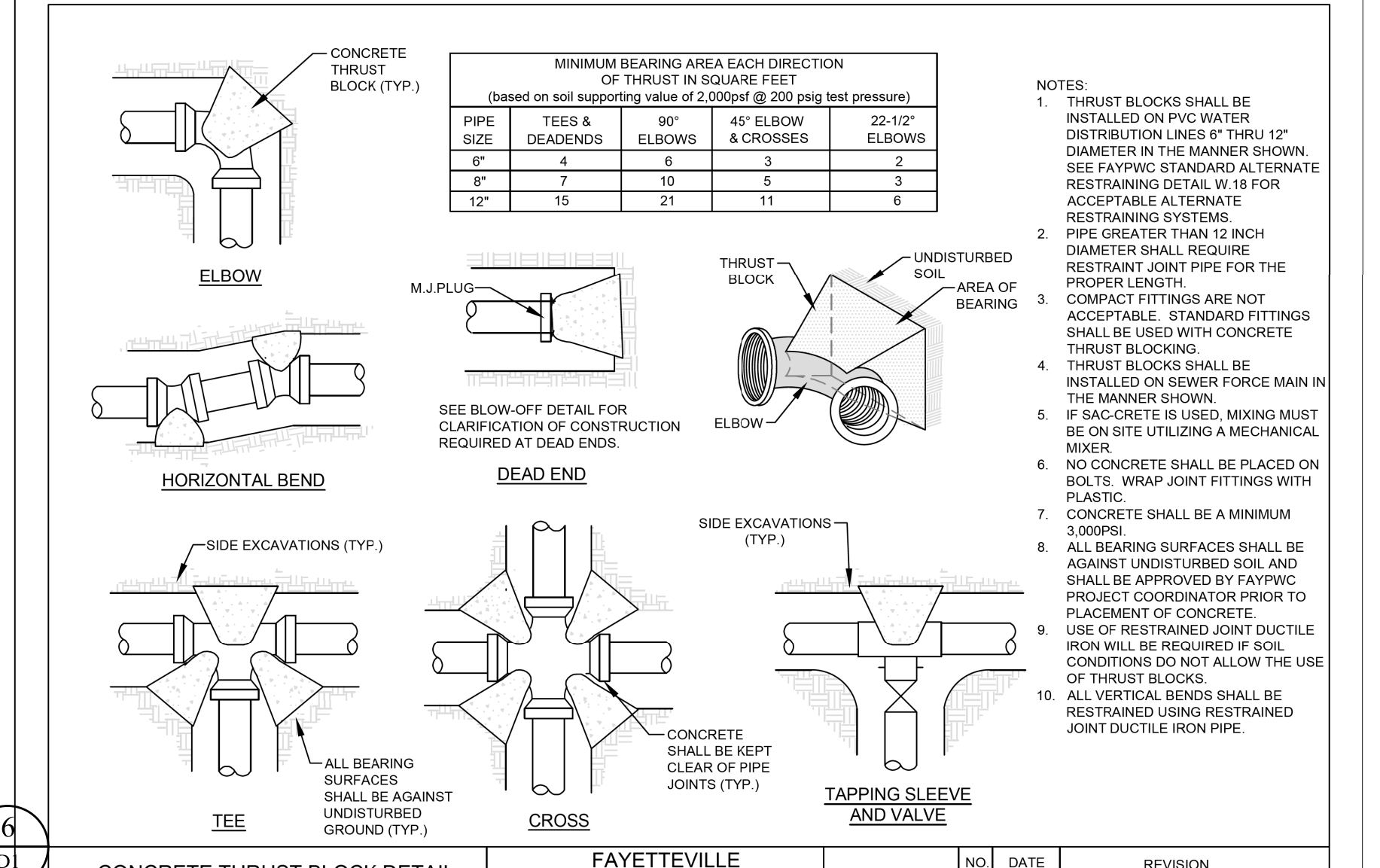
VALVE BOX N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.7 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	07/09	ADDED NOTES 7, 8, AND CLARIFIED
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	01/14	REVISED NOTES 1, 4, 6
			W7-VALVEBOX.dwg		



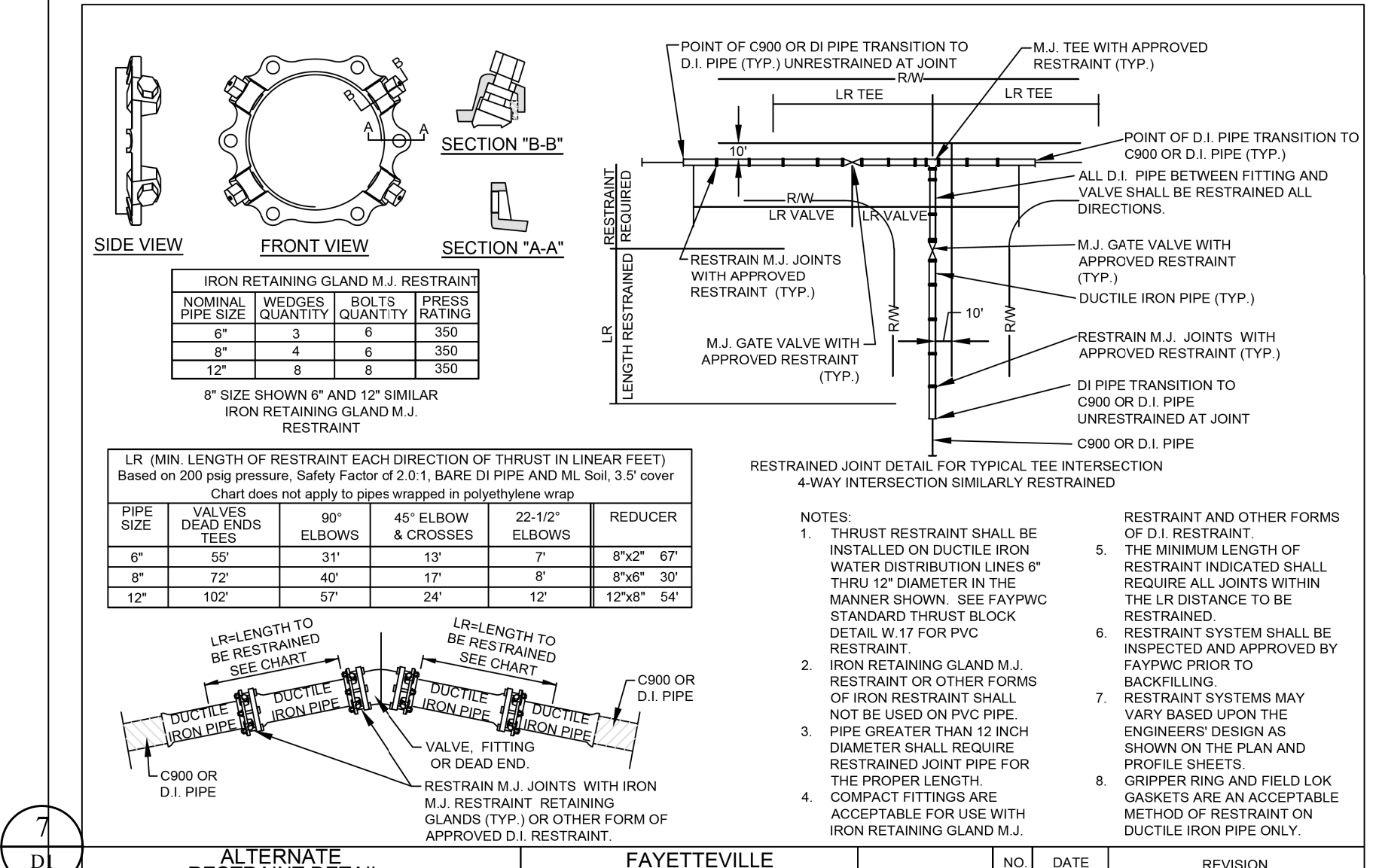
TAPPING VALVE N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.9 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	07/09	ADDED NOTE 10, REVISED 4 AND 5
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	07/13	REVISED NOTES 4, 8, 10
			W9-M.J.-TAPPING-VALVE.dwg		



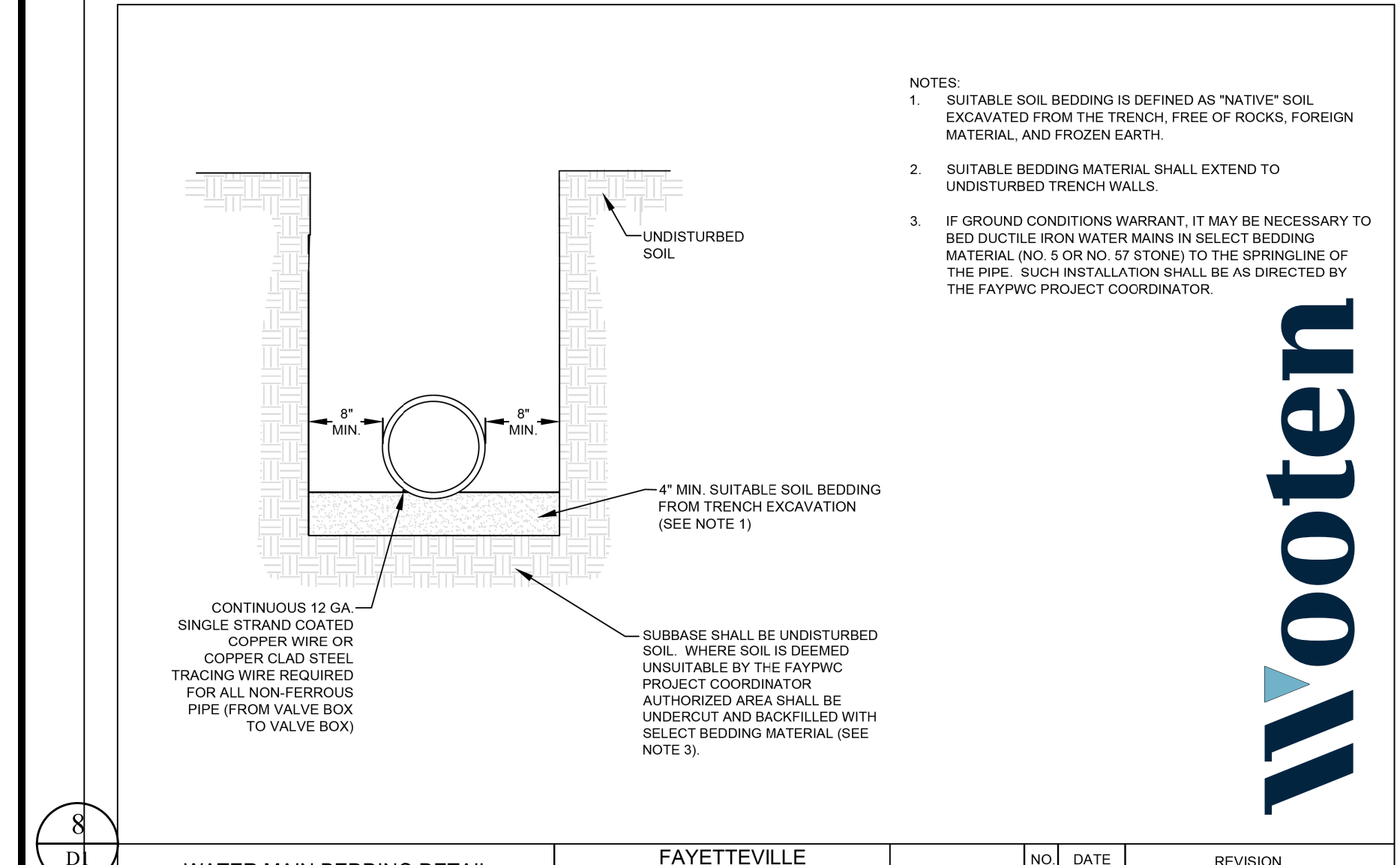
DUCTILE IRON TAPPING SLEEVE N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.10 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	07/09	REVISED NOTE 6/REMOVED NOTE 8
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	07/13	REVISED NOTES 6, 7
			W10-M.J.-TAPPING-SLEEVE.dwg		



CONCRETE THRUST BLOCK DETAIL N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.17 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	09/05	REVISED TABLE
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	02/07	ADDED NOTES 9 AND 10
			3	07/13	ADDED TAPPING SLEEVE AND VALVE DETAILS
		W17-THRUSTBLOCK.dwg			



ALTERNATE RESTRAINT DETAIL (DUCTILE IRON PIPE ONLY) N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.18 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	11/16/07	REVISED TABLE, ADDED NOTE 8
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			W18-RESTRAINT-DETAIL.dwg		



WATER MAIN BEDDING DETAIL N.T.S.		FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.	NO.	DATE	REVISION
DWG. NO. W.19 DWG. BY: FAYPWC		WATER RESOURCES ENGINEERING DEPARTMENT	1	01/01/17	REVISED NOTES
DATE: JAN. 01, 2023 APPROVED BY: M.M.M.			2	07/01/13	REVISED NOTE RE: TRACER WIRE
			W19-WATER-BEDDINGS.dwg		

DATE:	APRIL 2019	DATE:	02/24/2021
SURVEY/GPS BY:	TWC	CHECKED BY:	JCG
DRAWN BY:	CGJ	SCALE:	AS NOTED
REVISIONS:			
BY:			
DATE:			

DATE:	06/24/2023	DATE:	
SURVEY/GPS BY:	TWC	CHECKED BY:	JCG
DRAWN BY:	CGJ	SCALE:	AS NOTED

REPLACED ALL PWC AND CITY DETAILS WITH UPDATED VERSIONS

BUCKHEAD / FERNCREEK DR WATERLINE LOOPING STANDARD DETAILS

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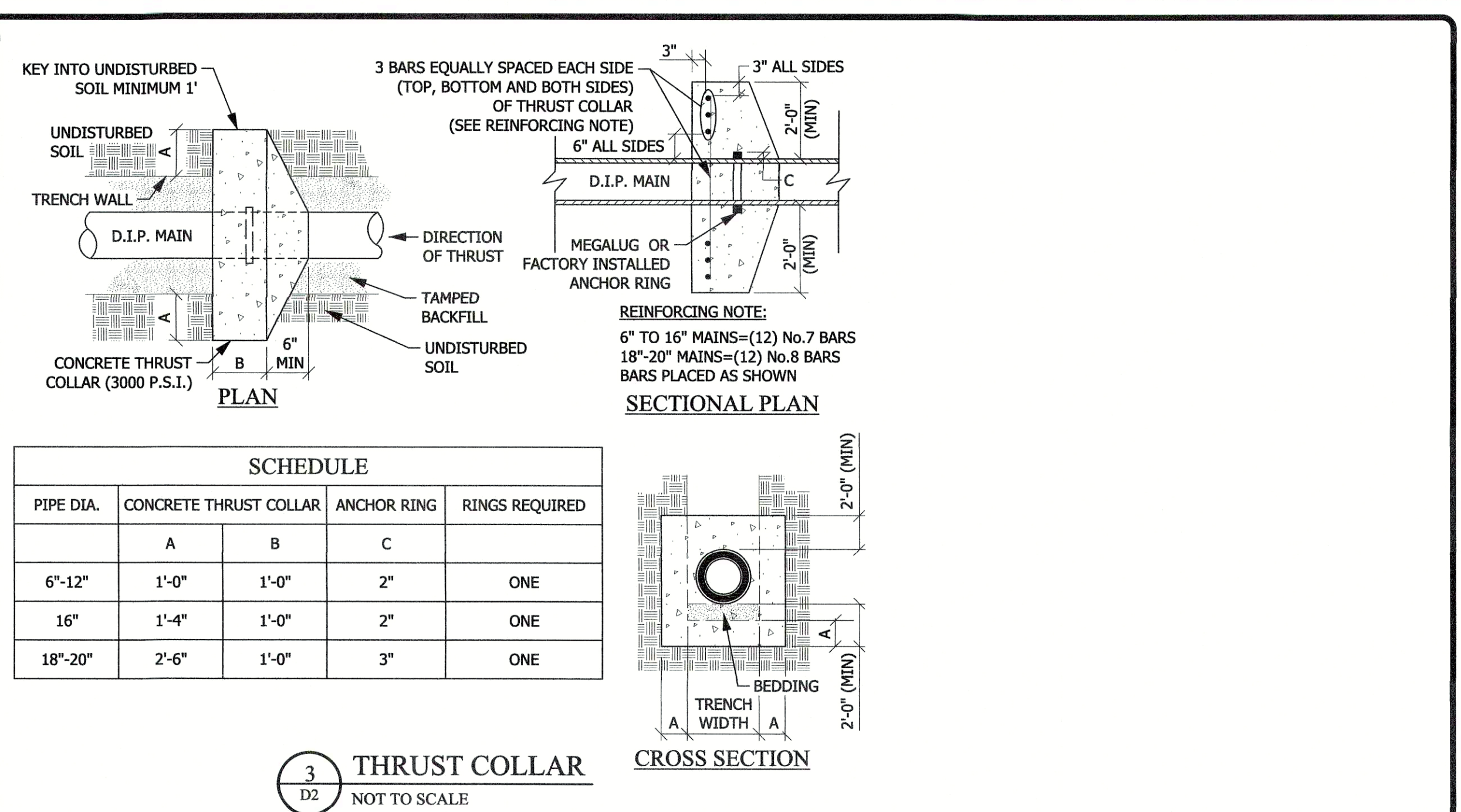
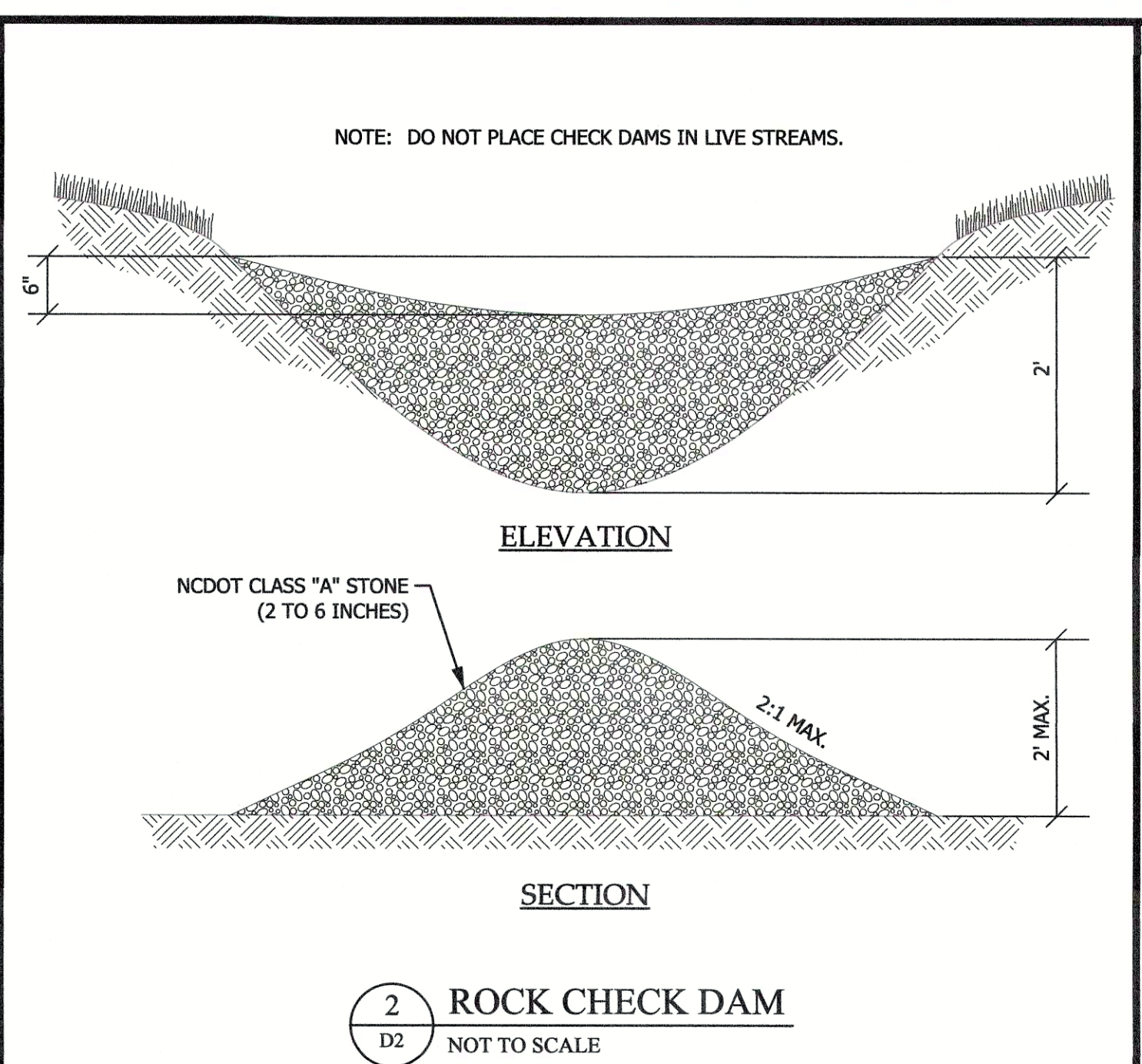
FAYETTEVILLE PUBLIC WORKS COMMISSION WATER RESOURCES ENGINEERING

P.O. Box 1085 Fayetteville, NC 28402
955 664 Wintham Road, Fayetteville, NC 28401

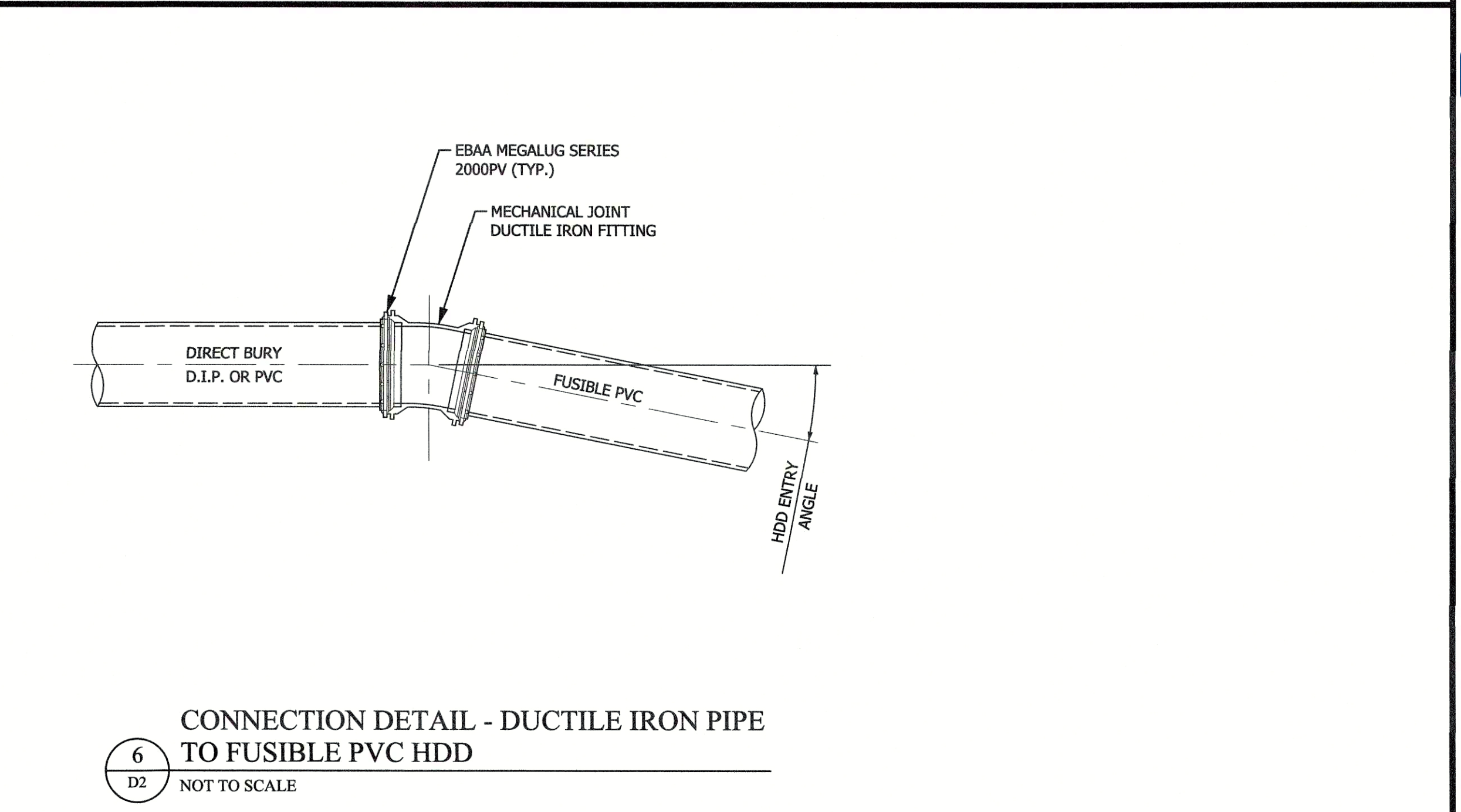
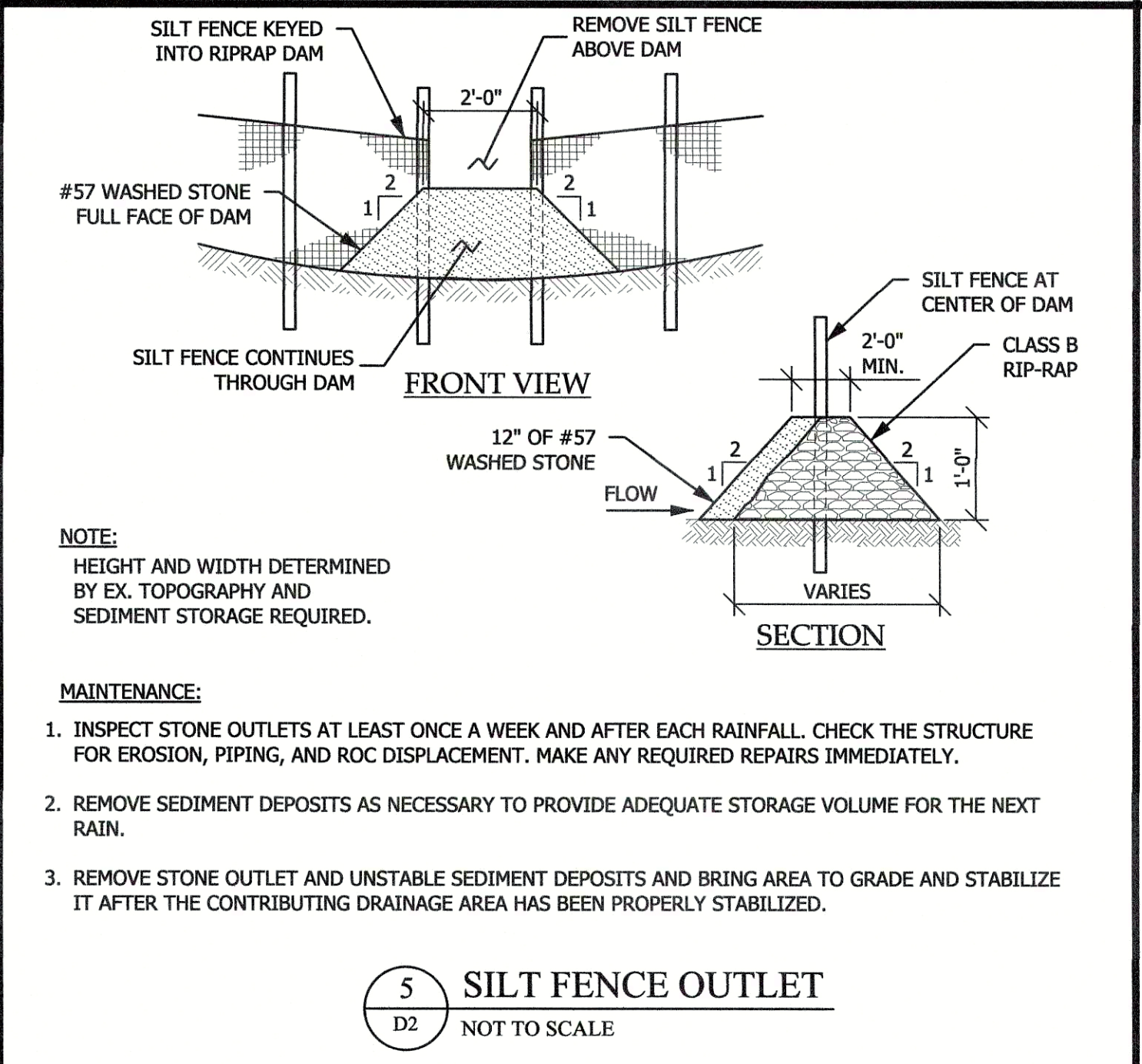
Wooten

WATER RESOURCES ENGINEERING

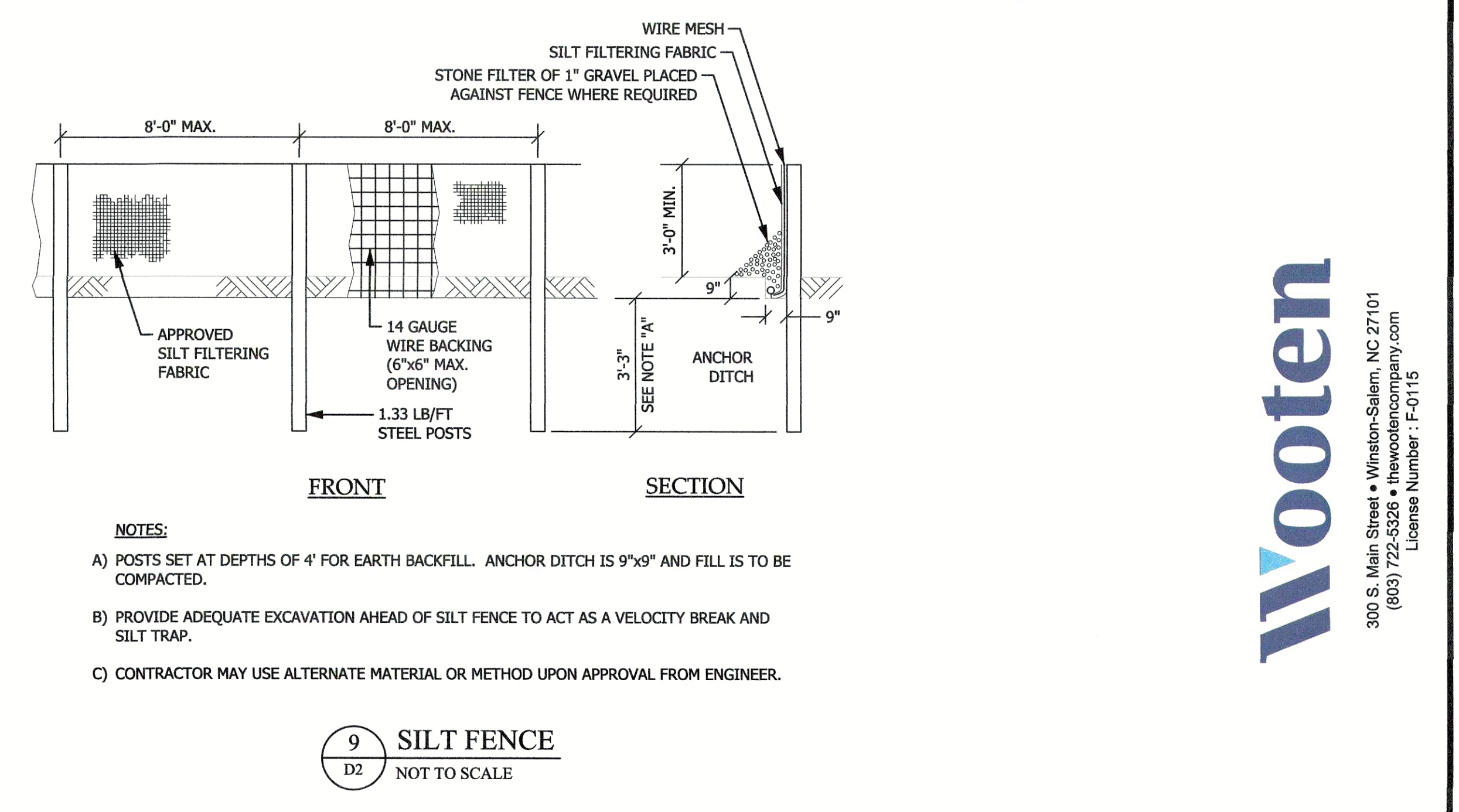
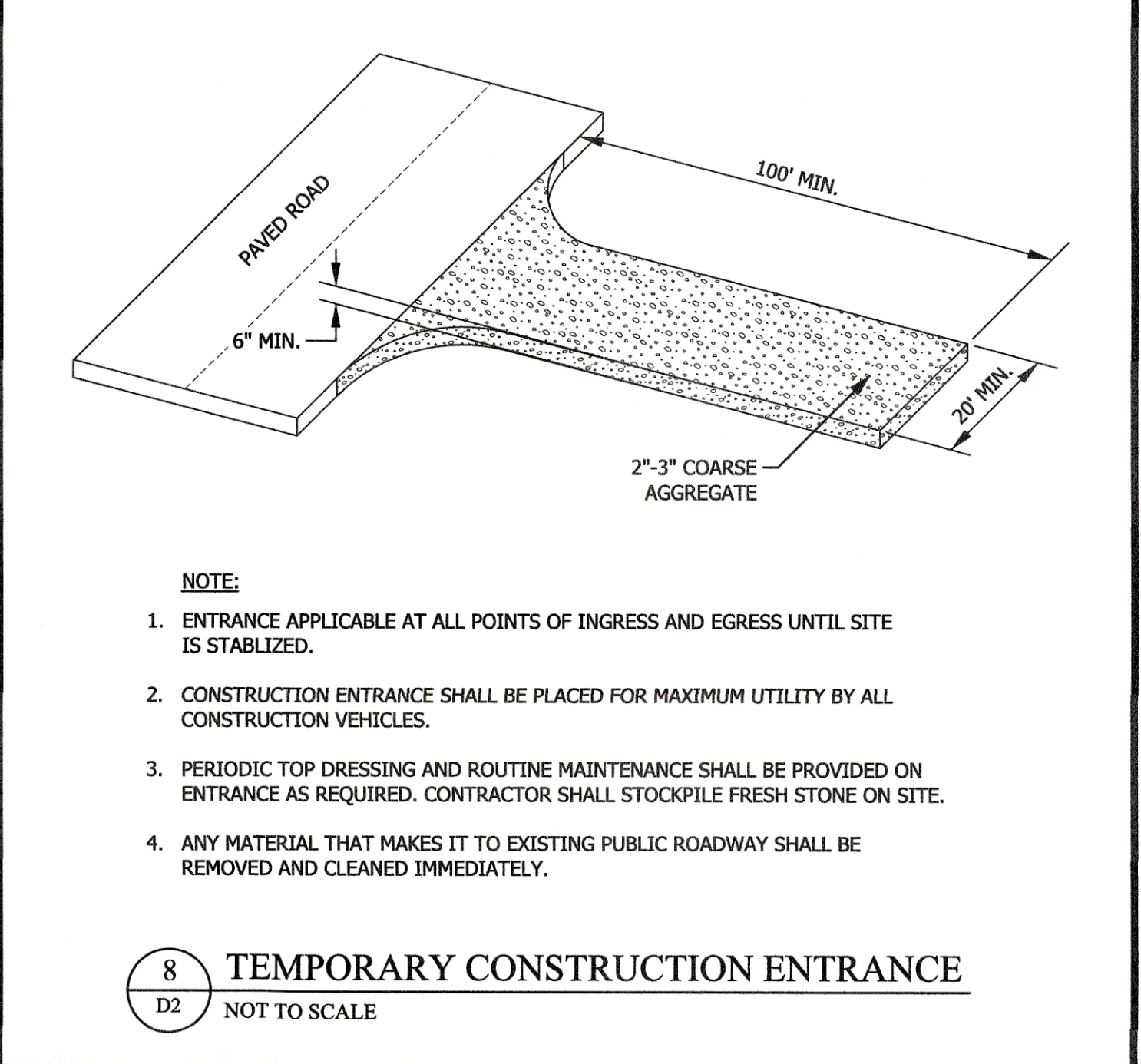
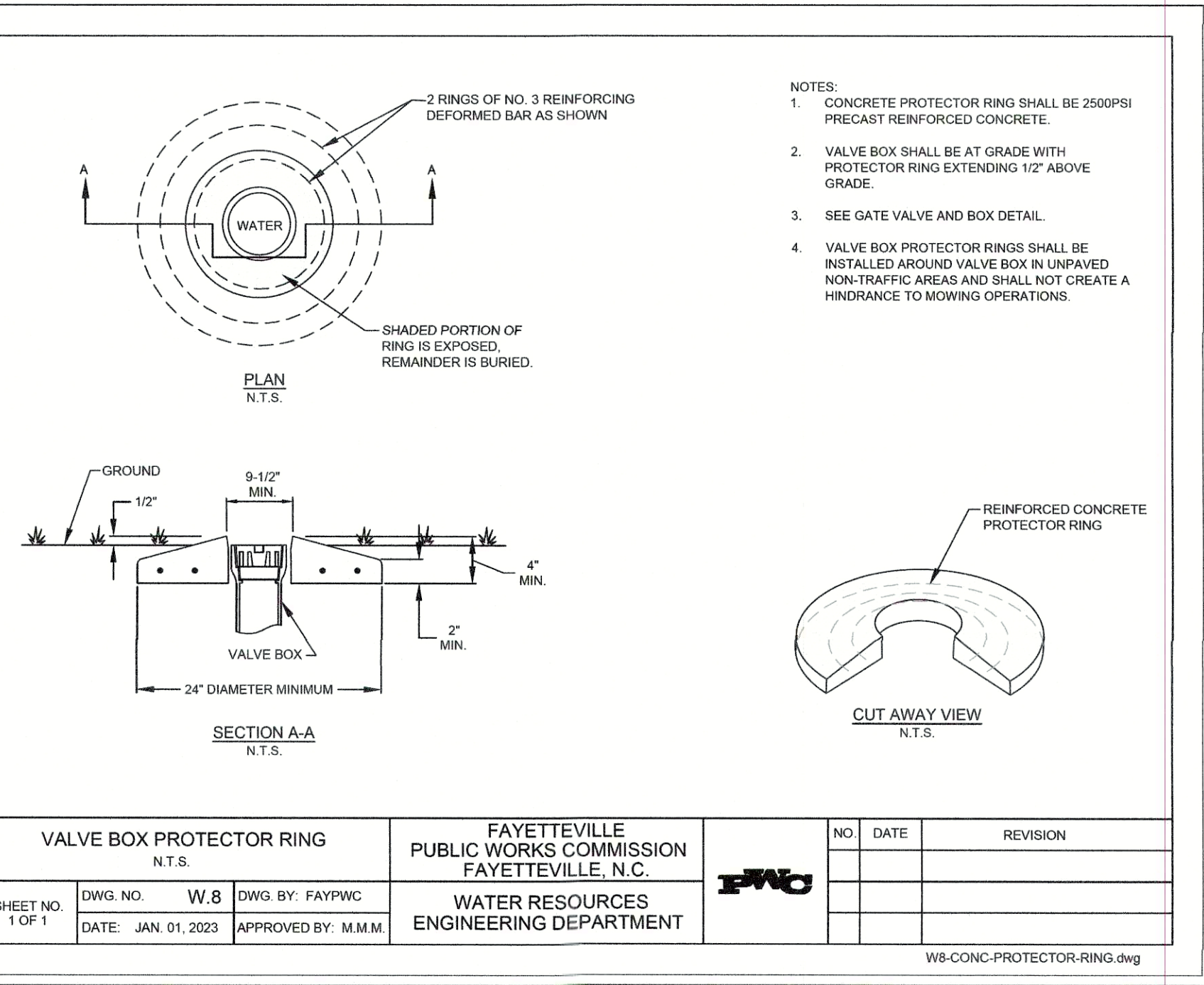
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DATE: APRIL 2019	REVISIONS	BY:
SURVEY/GPS BY: MHI	REVISIONS	CKG
DRAWN BY: CGL	DESIGN	REVISIONS
CHECKED BY: JCG	DESIGN	JCG
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STATE OF NORTH CAROLINA
PUBLIC WORKS COMMISSION
FAYETTEVILLE, N.C.
JOHN C. GREY
Professional Engineer
No. 16097

BUCKHEAD / FERN CREEK DR
WATERLINE LOOPING
STANDARD DETAILS

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PLAN

TYPICAL PERMANENT SAWCUT AND PAVEMENT PATCH PAGE 2 OF 3

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Rev. Date: 26 JAN 21
Not to Scale
Review Date: 26 JAN 21

SD-11.1

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NOTES:

- CONTRACTOR SHALL PATCH PAVEMENT TO THE SAME PAVEMENT CROSS SECTION AS EXISTED PRIOR TO REMOVING PAVEMENT. THE STREET CROWN SHALL BE RESTORED. PATCH SHALL MATCH EXISTING PAVEMENT WITHIN .02" WHEN CHECKED WITH A 10' STRAIGHT EDGE. ADJUST PAVEMENT AS REQUIRED. PATCH PAVING MAY OCCUR PRIOR TO PULLING MANDREL THRU SS PROVIDED DENSITY TEST OF TRENCH BACKFILL MEET THE REQUIRED DENSITY AND ENGINEER APPROVES PATCHING STREET PRIOR TO MANDREL TESTING SANITARY SEWER MAIN.
- WHERE PATCH OF CURBING OCCURS CONTRACTOR SHALL MATCH EXISTING CURB GRADES WITHIN 0.02 FEET. PATCHES THAT ARE ABOVE THE CURB GRADE LINE WILL NOT BE ACCEPTABLE AND SHALL BE REMOVED AND REPAIRED AT NO EXPENSE TO THE OWNER. CURB PATCH SHALL BE THE SAME SHAPE/TEMPLATE AS THE EXISTING CURB.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AND DEVICES AS REQUIRED BY THE MUTCD OR I.C. SUPPLEMENT. WORK CAN NOT PROCEED UNTIL THE MEASURES ARE IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT NEW PAVEMENT FROM TRAFFIC AND OTHER SOURCES OF DAMAGE UNTIL ASPHALT HAS SUFFICIENTLY COOLED TO PREVENT DAMAGE FROM SURFACE DEFLECTIONS.
- CONTRACTOR SHALL SAWCUT EXIST. PAVEMENT STRAIGHT AND TRUE PRIOR TO REMOVING ASPHALT FOR UTILITY INSTALLATION. THE ENGINEER MAY APPROVE THE USE OF A MILLING MACHINE FOR REMOVAL OF THE EXISTING PAVEMENT WITHIN TRENCH LIMITS. WHERE MILLING IS APPROVED THE CONTRACTOR SHALL PLACE AND COMPACT MILLINGS IN MILLED AREA TO PROVIDE AN INTERIM TRAFFIC SURFACE MILLING WHERE APPROVED BY ENGINEER IS AN ALTERNATE TO CUTTING ASPHALT AND DISPOSING OFF-SITE.
- AFTER UTILITY IS INSTALLED AND TESTED AND THE EXCESS BASE MATERIAL REMOVED (APPROX. 2") CONTRACTOR SHALL AGAIN SAWCUT EXISTING PAVEMENT STRAIGHT AND TRUE IMMEDIATELY PRIOR TO PAVING AS NOTED ABOVE.
- MILLING OPERATIONS SHALL BE LIMITED TO 1800 FEET PER MAIN LINE CREW NOT TO EXCEED 3000 FEET IN TOTAL OF DISTURBED ROADWAY FOR THE ENTIRE PROJECT AT ONE TIME WHERE CONTRACTOR SHALL PATCH PAVE DISTURBED AREA OF ROADWAY PRIOR TO DISTURBING ADDITIONAL ROADWAY.
- AT NO TIME SHALL THE TRENCH BE LEFT UNATTENDED WITH A VERTICAL DROP GREATER THAN 1 INCH FROM ASPHALT SURFACE TO TOP OF BACKFILLED TRENCH.
- IF PAVEMENT SETTLEMENT OCCURS WITHIN WARRANTY PERIOD (SEE PROJECT SPECIFICATIONS), THE CONTRACTOR SHALL REPAIR AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. NDOT WILL REQUIRE FULL DEPTH ASPHALT PATCH TO MATCH EXISTING ASPHALT THICKNESS ON STATE MAINTAINED ROADS. NDOT REQUIRES PATCH PAVING SAME DAY AS REMOVAL.
- TEST FOR DENSITY OF COMPACTION MAY BE MADE AT THE OPTION OF THE ENGINEER AND DEFICIENCIES SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE ENGINEER MAY HAVE COMPACTION TEST PERFORMED AFTER THE BACKFILL IS COMPLETE. CONTRACTOR SHALL BE REQUIRED TO EXCAVATE TO VARIOUS ELEVATIONS FOR DENSITY TESTING EXCAVATION, BACKFILL AND RECOMPACTION SHALL BE PERFORMED AT NO ADDITIONAL COSTS TO THE OWNER.

* --- NOTES 5 & 9 APPLY TO PERMANENT PAVEMENT PATCHES ONLY.

NOTES FOR TYPICAL PERMANENT AND TEMPORARY SAWCUT AND PAVEMENT PATCH PAGE 3 OF 3

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Review Date: 26 JAN 21

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CONCRETE VALLEY GUTTER DETAIL

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SD-7

PIPELINE RESTRAINT AT HDPE/DI CONNECTION DETAIL

NOT TO SCALE

EXPANSION JOINT

CONTRACTION JOINT

NOTES:

- CONTRACTION JOINTS IN CURB AND GUTTER SHALL BE SPACED AT 10-FOOT INTERVALS. SIDEWALK CONTRACTION JOINTS SHALL BE SPACED AT 5-FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE CITY ENGINEER TO PREVENT UNCONTROLLED CRACKING.
- CONTRACTION JOINTS SHALL BE MINIMUM 1" DEEP WHEN INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
- ALL EXPANSION JOINTS SHALL BE SPACED AT 30-FOOT INTERVALS FOR HAND FORMED, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ADJUTING SIDEWALK. IF CURB IS MACHINED A 90° SPACING IS ALLOWABLE.
- REFER TO NCDOT DETAILS 846.01 AND 848.01 FOR MORE INFORMATION.

CONTRACTION AND EXPANSION JOINT

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SD-3

TYPICAL RESIDENTIAL CROSS SECTION

TYPICAL LIGHT & HEAVY COMMERCIAL CROSS SECTION

TYPICAL CROSS SECTIONS FOR ALL CITY PAVEMENT

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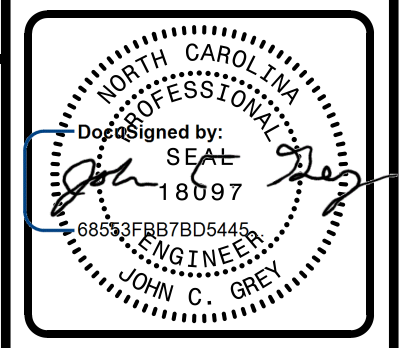
Rev. Date: 26 JAN 21
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Review Date: 26 JAN 21

SD-16.2

DATE:	APRIL 2019	REVISIONS:	
SURVEY/GPS BY:	MH	PER FAYETTEVILLE REVIEW COMMENTS & ALTERNATE HDD	CMG
DRAWN BY:	JGL	REPLACES ALL PWC AND CITY DETAILS WITH UPDATED VERSIONS	JCG
CHECKED BY:	JCG		
SCALE:	AS NOTED		
			SHEET SERIES:

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BUCKHEAD / FERNCREEK DR WATERLINE LOOPING STANDARD DETAILS



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FAYETTEVILLE PUBLIC WORKS COMMISSION WATER RESOURCES ENGINEERING

FAYETTEVILLE WATER RESOURCES ENGINEERING

Engineer at Wooten Corporation
P.O. Box 1058 Fayetteville, NC 28409
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855-04-Williamstown, Fayetteville, NC 28001