PROJECT REFERENCE NO.	SHEET NO.
U-4405	UC-031
DESIGNED BY: AMH	
DRAWN BY: AMH/AB	
CHECKED BY: AMH	
APPROVED BY: MWF	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

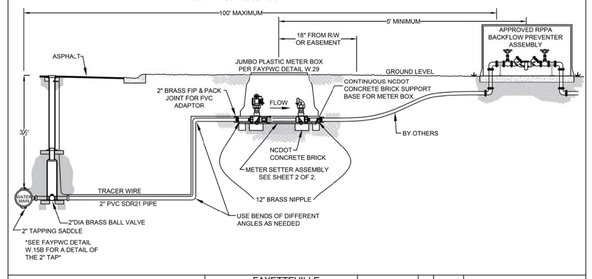
NORTH CAROLINA PROFESSIONAL SEAL 025490 ENGINEER MARK W. FISHER

DocuSigned by: Mark W. Fisher 6/12/2018

UTILITY CONSTRUCTION PLANS ONLY

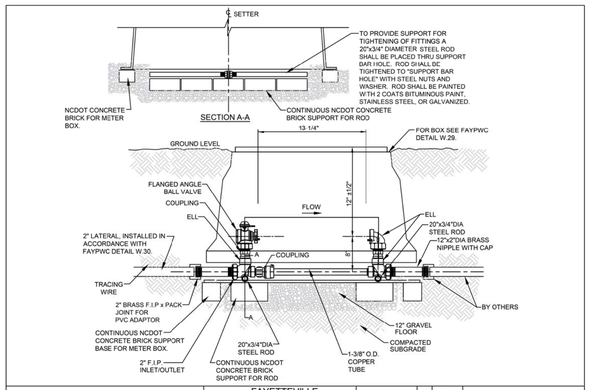
UTILITY CONSTRUCTION

NOTES:
1. ALL MATERIALS SHALL BE APPROVED BY ENGINEER.
2. FOR USE WITH A 1-1/2" OR 2" IRRIGATION METER.
3. LOCATION OF BOX SHALL BE AS DETERMINED BY ENGINEER. IN NO CASE SHALL BOX BE INSTALLED CLOSER THAN 5' TO BUILDING.
4. MINIMUM 5' BETWEEN THE METER & THE BACKFLOW PREVENTER. MAXIMUM 100' FROM THE MAIN TO THE BACKFLOW PREVENTER.
5. IF THE METER BOX IS LOCATED LESS THAN 5' AWAY FROM THE MAIN, THE 2" PIPING SHALL BE BRASS FROM THE TAP TO THE METER.
6. WATER LATERAL SHALL BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO BACKFILL.
7. INSTALLATION SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
8. CONTRACTOR SHALL INSTALL TRACING WIRE INTO METER BOX. A MINIMUM OF 2' OF WIRE SHALL BE IN BOX.



2" IRRIGATION LATERAL N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 2	DWG. NO. W.28	DWG. BY: FAYPWC	1	07/17	REVISED NOTES, ADDED SHEET 2
	DATE: JAN. 01, 2018	APPROVED BY: JEG	2	05/29/18	REVISED NOTES 1, 3, 6 AND 7 FOR NCDOT U-4405
	WATER RESOURCES ENGINEERING DEPARTMENT				

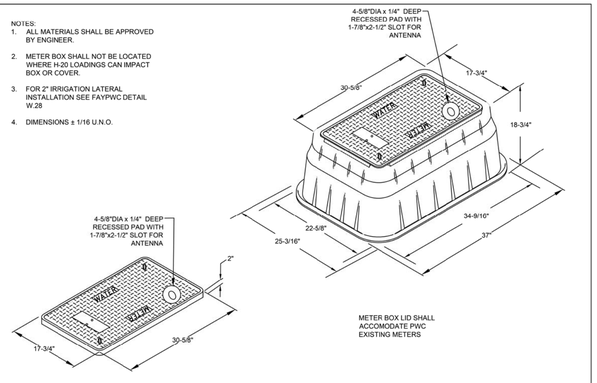
W28-2IN-IRRIG-LAT.DWG



2" IRRIGATION LATERAL N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 2 OF 2	DWG. NO. W.28	DWG. BY: FAYPWC	1	07/17	ADDED SHEET 2 OF 2
	DATE: JAN. 01, 2018	APPROVED BY: J.E.G.			
	WATER RESOURCES ENGINEERING DEPARTMENT				

W28-2IN-IRRIG-LAT.DWG

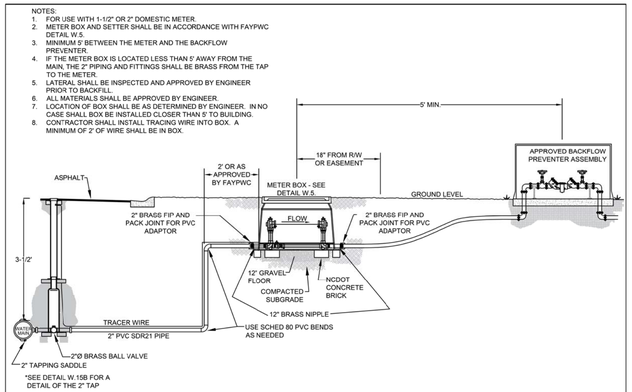
NOTES:
1. ALL MATERIALS SHALL BE APPROVED BY ENGINEER.
2. METER BOX SHALL NOT BE LOCATED WHERE H-20 LOADINGS CAN IMPACT BOX OR COVER.
3. FOR 2" IRRIGATION LATERAL INSTALLATION SEE FAYPWC DETAIL W.28
4. DIMENSIONS ± 1/16 U.N.O.



JUMBO METER BOX FOR IRRIGATION N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. W.29	DWG. BY: FAYPWC	1	05/29/18	REVISED LID, BOX AND DIMENSIONS
	DATE: JAN. 01, 2018	APPROVED BY: J.E.G.	2	05/29/18	REVISED NOTES 1 AND ADDED NOTE FOR LID TO BE CONSISTENT WITH EXISTING AMRs FOR NCDOT U-4405
	WATER RESOURCES ENGINEERING DEPARTMENT				

W29-JUMBO-METERBOX-IRRIG.dwg

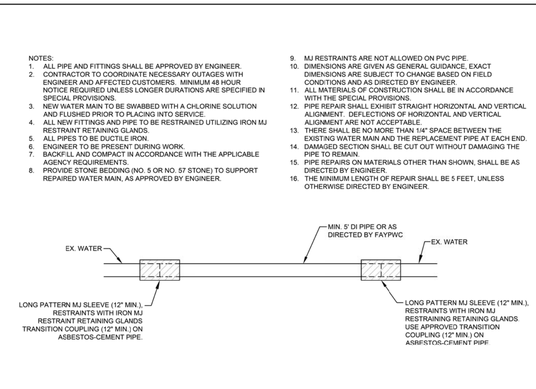
NOTES:
1. FOR USE WITH 1-1/2" OR 2" DOMESTIC METER.
2. METER BOX AND SETTER SHALL BE IN ACCORDANCE WITH FAYPWC DETAIL W.5.
3. MINIMUM 5' BETWEEN THE METER AND THE BACKFLOW PREVENTER.
4. IF THE METER BOX IS LOCATED LESS THAN 5' AWAY FROM THE MAIN, THE 2" PIPING AND FITTINGS SHALL BE BRASS FROM THE TAP TO THE METER.
5. LATERAL SHALL BE INSPECTED AND APPROVED BY ENGINEER PRIOR TO BACKFILL.
6. ALL MATERIALS SHALL BE APPROVED BY ENGINEER.
7. LOCATION OF BOX SHALL BE AS DETERMINED BY ENGINEER. IN NO CASE SHALL BOX BE INSTALLED CLOSER THAN 5' TO BUILDING.
8. CONTRACTOR SHALL INSTALL TRACING WIRE INTO BOX. A MINIMUM OF 2' OF WIRE SHALL BE IN BOX.



2" DOMESTIC LATERAL N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO. W.30	DWG. BY: FAYPWC	1	07/01/17	REVISED NOTES
	DATE: JAN. 01, 2018	APPROVED BY: JEG	2	0529/18	REVISED NOTES 5, 6, AND 7 FOR NCDOT U-4405
	WATER RESOURCES ENGINEERING DEPARTMENT				

W30-2IN-DOMESTIC-LATERAL.dwg

NOTES:
1. ALL PIPE AND FITTINGS SHALL BE APPROVED BY ENGINEER.
2. CONTRACTOR TO COORDINATE NECESSARY OUTAGES WITH ENGINEER AND AFFECTED CUSTOMERS. MINIMUM 48 HOUR NOTICE REQUIRED UNLESS LONGER DURATIONS ARE SPECIFIED IN SPECIAL PROVISIONS.
3. NEW WATER MAIN TO BE SWABBED WITH A CHLORINE SOLUTION AND FLUSHED PRIOR TO PLACING INTO SERVICE.
4. ALL NEW FITTINGS AND PIPE TO BE RESTRAINED UTILIZING IRON MJ RESTRAINT RETAINING GLANDS.
5. ALL PIPES TO BE DUCTILE IRON.
6. ENGINEER TO BE PRESENT DURING WORK.
7. BACKFILL AND COMPACT IN ACCORDANCE WITH THE APPLICABLE AGENCY REQUIREMENTS.
8. PROVIDE STONE BEDDING (NO. 5 OR NO. 57 STONE) TO SUPPORT REPAIRED WATER MAIN, AS APPROVED BY ENGINEER.
9. MJ RESTRAINTS ARE NOT ALLOWED ON PVC PIPE.
10. DIMENSIONS ARE GIVEN AS GENERAL GUIDANCE, EXACT DIMENSIONS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS AND AS DIRECTED BY ENGINEER.
11. ALL MATERIALS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
12. PIPE REPAIR SHALL EXHIBIT STRAIGHT HORIZONTAL AND VERTICAL ALIGNMENT. DEFLECTIONS OF HORIZONTAL AND VERTICAL ALIGNMENT ARE NOT ACCEPTABLE.
13. THERE SHALL BE NO MORE THAN 1/4" SPACE BETWEEN THE EXISTING WATER MAIN AND THE REPLACEMENT PIPE AT EACH END.
14. DAMAGED SECTION SHALL BE CUT OUT WITHOUT DAMAGING THE PIPE TO REMAIN.
15. PIPE REPAIRS ON MATERIALS OTHER THAN SHOWN, SHALL BE AS DIRECTED BY ENGINEER.
16. THE MINIMUM LENGTH OF REPAIR SHALL BE 5 FEET, UNLESS OTHERWISE DIRECTED BY ENGINEER.



PIPE REPAIR DETAIL N.T.S.	FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 1 OF 1	DWG. NO.: W.31	DWG. BY: FAYPWC	1	05/29/18	REVISED NOTES AND CALL OUT FOR NCDOT U-4405.
	DATE: JAN. 01, 2018	APPROVED BY: J.E.G.			
	WATER RESOURCES ENGINEERING DEPARTMENT				

W31-PIPE-REPAIR-DETAIL.dwg

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