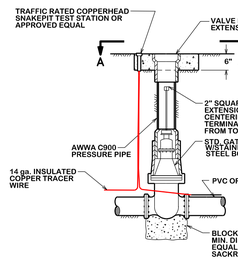
24" X 24" X 6"
28-DAY CONCRETE
STRENGTH = 2000 psi
WITH #4 BAR AROUND
ALL VALVE BOX.

TRAFFIC RATED COPPERHEAD
SNAKEPIT TEST STATION OR
APPROVED EQUAL

NOTE:

1. VALVE EXTENSION TO BE USED ONLY WHEN TOP OF GATE VALVE IS DEEPER THAN 5 FEET FROM FINISHED GRADE.
2. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO (2) COATS OF METAL PAINT.
3. EXTENSIONS SHALL BE A MINIMUM OF ONE (1) FOOT LONG.
4. VALVE BOX LIDS LOCATED ON VALVES TO ISOLATE FIRE SUPPRESSION LINES FROM PUBLIC WATER LINES SHALL BE ~~ARIPro 150A-11150~~ EJ 6900, PRODUCT 06800044 LOCKABLE LID.

VIEW A - A



GATE VALVE & BOX

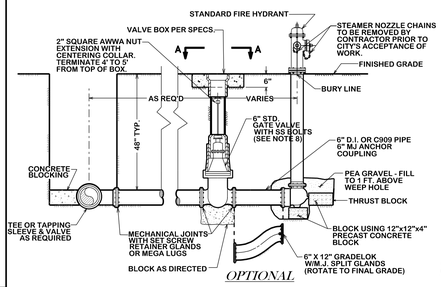
W1-00

GENERAL NOTES:

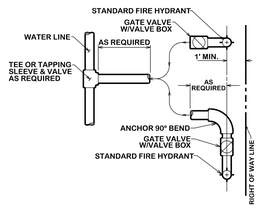
1. FINELY DIVIDED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6" SHALL BE PLACED BY HAND, AND COMPACTED AROUND THE CAST IRON PIPE TO A DEPTH OF 12" OVER THE TOP OF THE PIPE BEFORE BACKFILL IS BEGUN BY ANY MECHANICAL EQUIPMENT.
2. ALL CONCRETE BLOCKING SHALL BE - 28 DAY CONCRETE STRENGTH = 2000psi.
3. ALL THRUST BLOCKING SHALL PROVIDE A MINIMUM OF 2 SQUARE FEET OF BEARING AREA OF CONCRETE ON UNDISTURBED SOIL, OR AS DIRECTED BY THE ENGINEER.
4. WATER MAINS WILL NOT BE FULLY PRESSURIZED UNTIL CONCRETE HAS REACHED 7 DAY STRENGTH.
5. ALL PIPE WILL BE LAID SO AS THE ENTIRE BARRELL WILL HAVE FULL BEARING ON THE FINE GRADED TRENCH BOTTOM. BELL HOLES SHALL BE CUT FOR EACH BELL AND FIRE HYDRANT.
6. ALL FITTING SHALL BE MECHANICL JOINTS UNLESS OTHERWISE DIRECTED.
7. HYDRANTS SHALL BE LOCATED NO CLOSER THAN 3 FEET MEASURED FROM THE BACK OF CURB TO THE FACE OF THE STEAMER ON THE FIRE HYDRANT AND NO FURTHER THAN 15 FEET FROM BACK OF CURB
8. IF MAIN VALVE IS WITHIN 50 FEET OF FIRE HYDRANT THEN ASSEMBLY VALVE MAY BE OMITTED ON A DEAD END HYDRANT LEAD WITH NO ADDITIONAL CONNECTIONS.
9. HEIGHT OF FIRE HYDRANT MEASURED FROM THE STEAMER NOZZLE SHALL BE 18 TO 24 INCHES ABOVE NEAREST FINAL GRADE.

24" X 24" X 6"
28-DAY CONCRETE
STRENGTH = 2000 psi
WITH #4 BAR AROUND
ALL VALVE BOX.

VIEW A - A



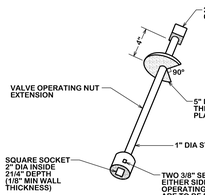
OPTIONAL



FIRE HYDRANT LOCATION REALIGN AS NEEDED

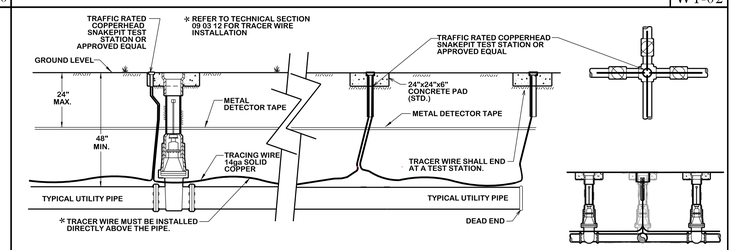
STANDARD FIRE HYDRANT ASSEMBLY

W1-02



GATE VALVE EXTENSION

W1-01



UTILITY PIPE LOCATION MATERIALS

W1-03

THRUST BLOCK NOTES:

1. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 psi FOR 24" AND SMALLER INNER DIAMETER PIPE.
2. ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
3. CONCRETE FOR BLOCKING SHALL BE 2000 psi.
4. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
5. WATER MAIN SHALL NOT BE PRESSURIZED UNTIL ALL CONCRETE BLOCKING HAS REACHED 1500 psi.

TEE SCHEDULE

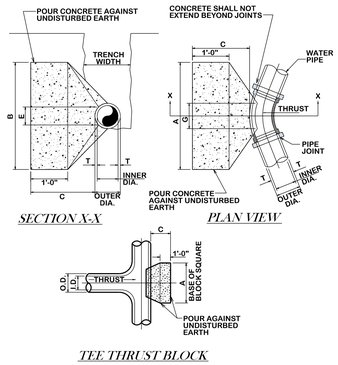
ID (in)	THRUST (tons)	C (ft)	A (ft)	VOLUME (c.y.)
4,6,8	5.1	1.5	2.5	0.3
10,12	11.3	1.5	3.5	0.6

NOTE:
USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE & PLUG TO PREVENT CONCRETE FROM STICKING TO PLUG.

HORIZONTAL THRUST BLOCK SCHEDULE

BEND	SIZE	A (ft)	B (ft)	C (ft)	E (ft)	G (ft)	VOLUME (c.y.)
90°	6,8"	5.0	1.5	1.5	0.9	2.7	0.4
	10,12"	6.5	2.5	1.5	1.2	4.0	1.0
45°	6,8"	2.0	2.0	1.5	0.9	1.5	0.2
	10,12"	3.5	2.5	1.5	1.2	2.2	0.5
22.5°	6,8"	1.5	1.5	1.5	0.9	0.8	0.1
	10,12"	2.0	2.5	1.5	1.2	1.1	0.3
11.25°	6,8"	1.0	1.5	1.5	0.9	0.4	0.1
	10,12"	1.5	1.5	1.5	1.2	0.6	0.1

THRUST BLOCK DETAILS



SECTION X-X

PLAN VIEW

TEE THRUST BLOCK

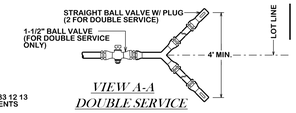
TYPICAL HORIZONTAL THRUST BLOCK

W2-00

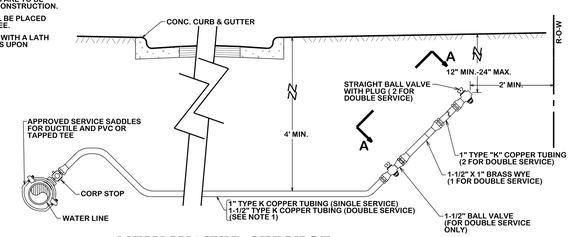
NOTES:

1. NO SPLICES IN COPPER TUBING WILL BE ALLOWED FOR SINGLE SERVICE OR BETWEEN THE SERVICE SADDLE AND THE WYE FOR DOUBLE SERVICE.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESSURE TEST LINE IMMEDIATELY AFTER THE STREET CROSSINGS HAVE BEEN INSTALLED.
3. MARK EACH SERVICE END WITH METAL "T" POST PAINTED BLUE.
4. MATERIAL USED SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
5. ALL CONNECTIONS TO BE COMPRESSION TYPE.
6. ALL SERVICE WYES & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION.
7. METERS AND VALVE BOXES SHALL BE PLACED BY THE CITY UPON PAYMENT OF FEE.
8. LOT CORNERS SHALL BE MARKED WITH A LATH UNDER THE SUPERVISION F A RPLS UPON COMPLETION OF CONSTRUCTION.

** SEE TECHNICAL SECTION 33 12 13 FOR MATERIAL REQUIREMENTS



VIEW A-A
DOUBLE SERVICE

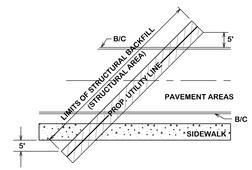


NEW WATER SERVICE

(SHORT AND LONG SIDE)

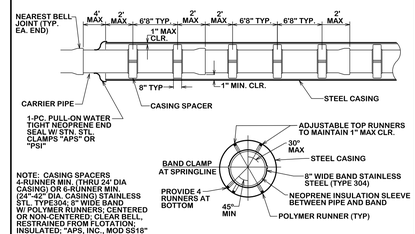
W2-01

STRUCTURAL BACKFILL AREA INCLUDES ALL PAVED AREAS (SIDEWALKS, STREETS, ALLEYS, DRIVEWAYS,AND PARKING AREAS) AND SHALL EXTEND 5' BEYOND THE CURB LINE. STRUCTURAL BACKFILL SHALL BE CEMENT STABILIZED (SEE DETAIL W4-02 - AREAS TO BE PAVED) OR EXCAVATED SOIL COMPACTED TO 95% MAXIMUM DRY DENSITY AS PER ASTM D698 WITHIN OPTIMUM TO +4% WET OF OPTIMUM (SEE DETAIL W4-02 - NON-STRUCTURAL AREAS)



STRUCTURAL BACKFILL AREA

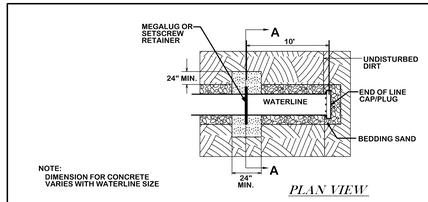
W2-02



NOTE: CASING SPACERS 4-RUNNER MIN. (THRU 24" DIA CASING) OR 6-RUNNER MIN. (24"-42" DIA. CASING) STAINLESS STL. TYPE304; 8" WIDE BAND W/ POLYMER RUNNERS; CENTERED OR NON-CENTERED; CLEAR BELL, RESTRAINED FROM FLOTATION; INSULATED; "APS, INC., MOD SS18" OR "CASCADE"

CASING DETAIL

W2-03



NOTE:
DIMENSION FOR CONCRETE VARIES WITH WATERLINE SIZE

PLAN VIEW

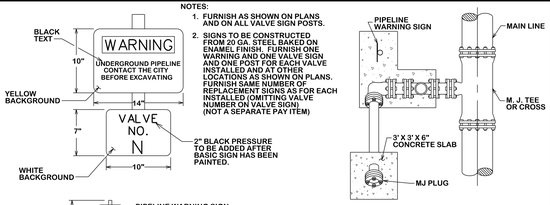
SECTION A-A

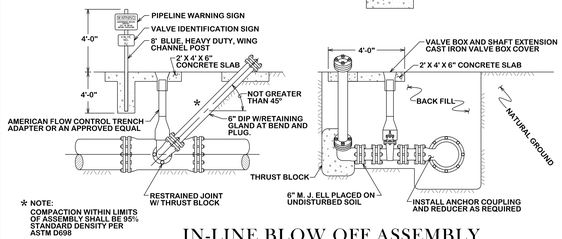
END OF LINE BLOCKING

W3-00

NOTES:

1. FURNISH AS SHOWN ON PLANS AND ON ALL VALVE SIGN POSTS.
2. SIGNS TO BE CONSTRUCTED FROM 20 GA. STEEL BAKED ON ENAMEL FINISH. FURNISH ONE WARNING AND ONE VALVE SIGN AND ONE POST FOR EACH LOCATION AS SHOWN ON PLANS. FURNISH SAME NUMBER OF REPLACEMENT SIGNS AS FOR EACH INSTALLED (OMITTING VALVE NUMBER ON VALVE SIGN). (NOT A SEPARATE PAY ITEM)





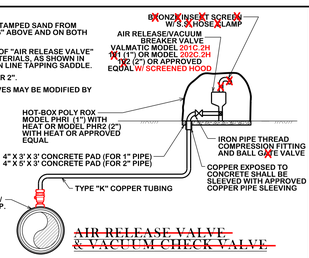
* NOTE:
COMPACTION WITHIN LIMITS OF ASSEMBLY SHALL BE 95% STANDARD DENSITY PER ASTM D698

IN-LINE BLOW OFF ASSEMBLY

W3-01

NOTE:

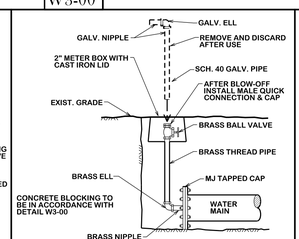
1. EMBED COPPER LINE IN TAMPED SAND FROM UNDISTURBED SOIL TO 6" ABOVE AND ON BOTH SIDES OF COPPER PIPE.
2. PAYMENT FOR BID ITEM OF "AIR RELEASE VALVE" SHALL INCLUDE ALL MATERIALS, AS SHOWN IN DETAIL, INCLUDING MAIN LINE TAPPING SADDLE.
3. PIPE SIZE SHALL BE 1" OR 2".
4. SIZE OF LINES AND VALVES MAY BE MODIFIED BY THE ENGINEER



~~AIR RELEASE VALVE & VACUUM CHECK VALVE~~

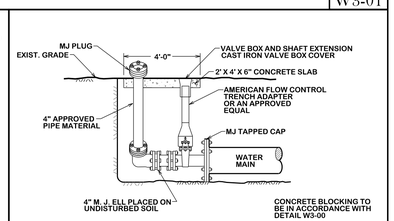
SINGLE BODY COMBINATION AIR RELEASE VALVE

W3-02



2" BLOW-OFF RISER

W3-03

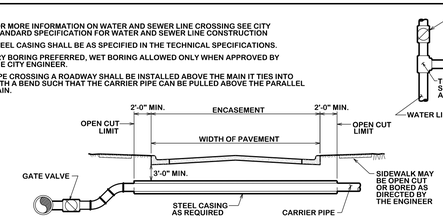


4" END OF LINE BLOW-OFF

W3-04

NOTE:

1. FOR MORE INFORMATION ON WATER AND SEWER LINE CROSSING SEE CITY STANDARD SPECIFICATION FOR WATER AND SEWER LINE CONSTRUCTION
2. STEEL CASING SHALL BE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.
3. DRY BORING PREFERRED, WET BORING ALLOWED ONLY WHEN APPROVED BY THE CITY ENGINEER.
4. PIPE CROSSING A ROADWAY SHALL BE INSTALLED ABOVE THE MAIN IT TIES INTO WITH A BEND SUCH THAT THE CARRIER PIPE CAN BE PULLED ABOVE THE PARALLEL MAIN.

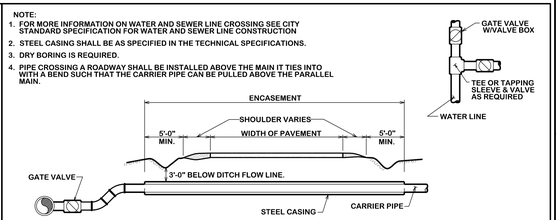


TYPICAL URBAN CITY STREET CROSSING

W4-00

NOTE:

1. FOR MORE INFORMATION ON WATER AND SEWER LINE CROSSING SEE CITY STANDARD SPECIFICATION FOR WATER AND SEWER LINE CONSTRUCTION
2. STEEL CASING SHALL BE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS.
3. DRY BORING IS REQUIRED.
4. PIPE CROSSING A ROADWAY SHALL BE INSTALLED ABOVE THE MAIN IT TIES INTO WITH A BEND SUCH THAT THE CARRIER PIPE CAN BE PULLED ABOVE THE PARALLEL MAIN.



TYPICAL RURAL STREET CROSSING

W4-01

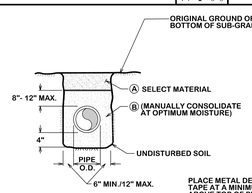
Ⓐ SELECT MATERIAL
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION) COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (ie., YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER NEW STREET AREAS AND STREETS TO BE RECONSTRUCTED.

Ⓑ GRANULAR MATERIAL
MATERIAL SHALL BE BANK RUN RIVER SAND WHICH IS FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL AND WHEN TESTED BY STANDARD LABORATORY METHODS, MEET THE FOLLOWING REQUIREMENTS:

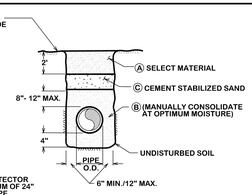
MAXIMUM LIQUID LIMIT	45
MAXIMUM PLASTICITY INDEX	15
MAXIMUM PERCENT PASSING NO. 200 SIEVE	35
MINIMUM PERCENT PASSING 3/4" SIEVE	100

THE MATERIAL SHALL BE FREE FLOWING AND WHEN WET, SHALL NOT ADHERE TO FORM A BALL WHEN PRESSED IN THE HAND.

Ⓒ CEMENT STABILIZED SAND



NON-STRUCTURAL AREAS



PLACE METAL DETECTOR TAPE AT A MINIMUM OF 24" ABOVE TOP OF PIPE

AREAS TO BE PAVED OR STREETS TO BE RECONSTRUCTED

NOTES:

1. FOR BEDDING AND TRENCHING WITHIN ALL EXISTING PAVED AREAS, SEE DETAILS FOR OPEN CUT STREETS. (Details ST4-00, ST4-01, ST4-02). THIS NOTE DOES NOT APPLY TO STREETS BEING RECONSTRUCTED.
2. EVERY 100 FEET PROVIDE A WATER STOP BLOCK COMPOSED OF CEMENT SAND OR NATIVE MATERIAL DEPENDING ON EMBEDMENT. BLOCK SHALL BE 6 FEET IN LENGTH. NO BEDDING SAND IN THIS AREA.
3. ALL BEDDING & INSTALLATION OF PVC PIPE SHALL BE IN ACCORDANCE WITH ANSI/AWWA STANDARDS FOR PVC PIPE.
4. ALL BEDDING & INSTALLATION OF DUCTILE IRON PIPE SHALL BE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50
5. COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING.
6. RELATIVE COMPACTION SHALL BE TESTED IN THE PRESENCE OF THE CITY ENGINEER.
7. DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK, EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY, SHALL BE CONTROLLED BY THE CONTRACTOR.
8. ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLATING PLACED AT THE END OF EACH WORKING DAY.

BEDDING AND TRENCH FOR DI PIPE & PVC PIPE

W4-02

GENERAL NOTES:

ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SODDED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOD WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SODDED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM.

REVISIONS:

BRYAN - COLLEGE STATION STANDARD WATER DETAILS

CITY OF COLLEGE STATION

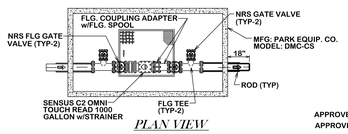
CITY OF BRYAN
The Good Life, Texas Style.

DRAWN BY: C.L.M.
DATE: 08-01-12
SCALE: N T S
APPROVED: W. P. K.
FIGURE:
W1
SHEET 1 OF 2

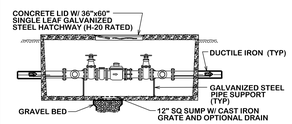
SPECIAL CONDITIONS

1. METER REGISTER SHALL BE NO DEEPER THAN 12 INCHES BELOW FINISHED GRADE.
2. FLOOR OF VAULT WILL BE A MINIMUM OF 6 INCHES FROM BOTTOM OF ANY PIPING APPARATUS OR METER WITHIN THE VAULT.
3. REINFORCED CONCRETE VAULT BASE (FLOOR) SHALL BE CONSTRUCTED USING A STANDARD FIVE SACK CONCRETE MIX AND REINFORCING COMPRISED OF #2 REBAR ON 12 INCH CENTERS WITH A MINIMUM BASE THICKNESS OF 6 INCHES.
4. SET SCREW RETAINER GLANDS SHALL BE INSTALLED AT EACH FITTING ON MECHANICAL JOINT PIPE.
5. VALVES SHALL MEET THE CITY SPECIFICATIONS FOR VALVES.
6. THERE SHALL BE NO PIPING UNDER THE FLOOR OF THE VAULT.

MODEL	SIZE	L1	W1	H1	WEIGHT LBS.
DMC-CS3	3"	8'-8"	5'-0"	4'-6"	12,000
DMC-CS4	4"	8'-8"	5'-0"	4'-6"	12,000
DMC-CS6	6"	11'-0"	6'-0"	4'-9"	12,000



PLAN VIEW



ELEVATION VIEW

APPROVED 3" OR LARGER COMPOUND METERS, VAULTS & MATERIALS

APPROVED METERS - SENSUS SRH (U. S. GALLONS)

APPROVED VAULTS - PARK DMC-BR PRE-CAST CONCRETE VAULT W/ ADEQUATE ACCESS AND VAULT DIMENSIONS FOR METER SELECTED

APPROVED MATERIALS - DUCTILE IRON PIPE WITH MECHANICAL JOINT. SET SCREW RETAINER GLANDS WILL BE BASED ON ALL M.J. FITTINGS.

ANY DEVIATIONS FROM THE ABOVE SPECIAL CONDITIONS OR APPROVED METERS, VAULTS OR MATERIALS MUST BE SUBMITTED TO THE DIVISION MANAGER, WATER SERVICES, 72 HOURS PRIOR TO ANTICIPATED DEVIATION.

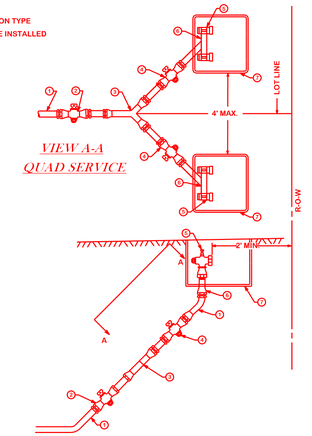
CITY OF COLLEGE STATION METER VAULT ASSEMBLY

W5-00

SPECIAL CONDITIONS

1. ALL CONNECTIONS SHALL BE PACK-JOINT COMPRESSION TYPE
2. ALL SERVICE EXTENSIONS/APPURTENANCES ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION
3. A MAXIMUM OF FOUR - 0.75" WATER METERS ARE ALLOWED FOR THIS CONFIGURATION
4. MATERIAL USED SHALL BE AS SPECIFIED OR AN APPROVED EQUAL

1. Service tubing: Type K copper - cu - soft - 2"
2. Ford Ball Valve - B44-777-NL- 2"
3. Ford "Y" Branch - Y44-274-NL- 2" x 1" x 1"
4. Ford Ball Valve - B44-444-NL- 1"
5. Ford Angle Stop KV13-332W-NL - .75" x .75" Meter Nut Swivel
6. Ford 'U' Branch - U48-43-NL
7. Dual Concrete Meter Box - Provided by COCS



VIEW A-A
QUAD SERVICE

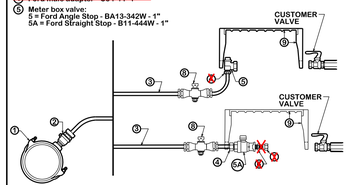
CITY OF COLLEGE STATION QUAD SERVICE CONNECTION

W5-01

METER VAULT ASSEMBLY

NOTES:

1. Service saddle, ~~SS straps~~, CC threads Installed per manufacturer's recommendations. All main types: ~~Cambridge 800 Series or~~ Ford S70/S90
2. Corporation Stop: Ford FB 1000-4- 1"
3. Service tubing: Type K copper - soft - 1"
4. ~~Ford male adapter - C84-44- 1"~~
5. Meter box valve: 5 = Ford Angle Stop - BA-11-444W - 1" 5A = Ford Straight Stop - B11-444W - 1"
6. ~~Brass bushing IPS - 1" x 3/4"~~
7. ~~Meter nipple - C38-23-2-5 - 3/4"~~
8. Meter box and lid: Old Castle meter box, CI lid with Reader #36
9. Ball valve
10. Meter box and lid: Old Castle meter box, CI lid with Reader #36

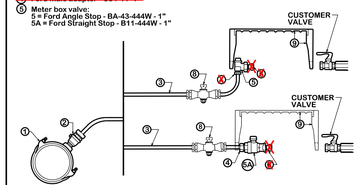


CITY OF COLLEGE STATION STRAIGHT OR ANGLE TAP - 3/4"

W7-00

NOTES:

1. Service saddle, ~~SS straps~~, CC threads Installed per manufacturer's recommendations. All main types: ~~Cambridge 800 Series or~~ Ford S70/S90
2. Corporation Stop: Ford FB 1000-4- 1"
3. Service tubing: Type K copper - soft - 1"
4. ~~Ford male adapter - C84-44- 1"~~
5. Meter box valve: 5 = Ford Angle Stop - BA-43-444W - 1" 5A = Ford Straight Stop - B11-444W - 1"
6. ~~Meter nipple - C38-44-2-625 - 1"~~
8. Ball valve
9. Meter box and lid: Old Castle meter box, CI lid with Reader #36

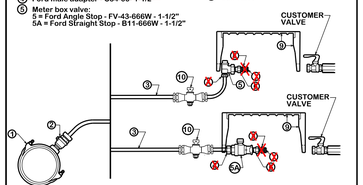


CITY OF COLLEGE STATION STRAIGHT OR ANGLE TAP - 1"

W7-01

NOTES:

1. Service saddle, ~~SS straps~~, CC threads Installed per manufacturer's recommendations. All main types: ~~Cambridge 800 Series or~~ Ford S70/S90
2. Corporation Stop: Ford FB 1000-6- 1-1/2"
3. Service tubing: Type K copper - soft - 1-1/2"
4. ~~Ford male adapter - C84-66- 1-1/2"~~
5. Meter box valve: 5 = Ford Angle Stop - FV-43-666W - 1-1/2" 5A = Ford Straight Stop - B11-666W - 1-1/2"
6. ~~Swivel nut - C38-66-2-875 - 1-1/2"~~
7. ~~Brass all thread I.P.S. - 1-1/2"~~
8. ~~Meter adapter - BBIM-66 - 1-1/2"~~
9. Meter box and lid: Old Castle meter box, CI lid with Reader #65
10. Ball valve

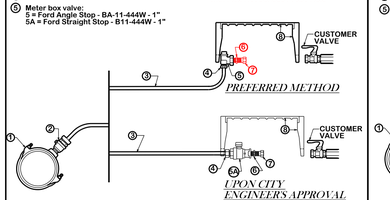


CITY OF COLLEGE STATION STRAIGHT OR ANGLE TAP - 1-1/2"

W7-02

NOTES:

1. Service saddle, ~~SS straps~~, CC threads Installed per manufacturer's recommendations. All main types: Smith Blair 317
2. Corporation Stop: Ford FB 1000-7-Q (cc thread) - 2"
3. Service tubing: Type K copper - cu - soft - 2"
4. Ford male adapter - C84-77-Q - 2"
5. Meter box valve: 5 = Ford Angle Stop - BA-11-777W - 2" 5A = Ford Straight Stop - B11-777W - 2"
6. Brass nipple I.P.S. - 2" x 3"
7. Meter Flange - CF31-77 - 2"
8. Meter box and lid: ~~Old Castle meter box, CI lid with Reader #36.~~ Old Castle/Christy meter box and lid: - B09 Utility Box - N09R Concrete Lid Marked "Water" with Flex-Net Sensus Probe Hole

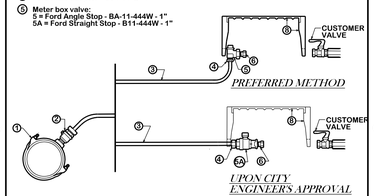


CITY OF BRYAN STRAIGHT OR ANGLE TAP-3/4"

W6-00

NOTES:

1. Service saddle, SS straps, CC threads Installed per manufacturer's recommendations. All main types: Smith Blair 317
2. Corporation Stop: Ford FB 1000-4-Q - 1"
3. Service tubing: Type K copper - soft - 1"
4. Ford male adapter - C84-44-Q - 1"
5. Meter box valve: 5 = Ford Angle Stop - BA-11-444W - 1" 5A = Ford Straight Stop - B11-444W - 1"
6. Meter nipple - C38-44-2-625 - 1"
8. Meter box and lid: ~~Old Castle meter box, CI lid with Reader #36~~ Old Castle/Christy meter box and lid: - B09 Utility Box - N09R Concrete Lid Marked "Water" with Flex-Net Sensus Probe Hole

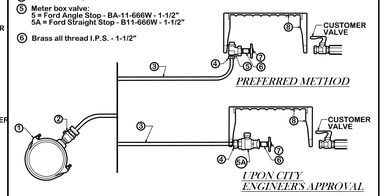


CITY OF BRYAN STRAIGHT OR ANGLE TAP - 1"

W6-01

NOTES:

1. Service saddle, SS straps, CC threads Installed per manufacturer's recommendations. All main types: Smith Blair 317
2. Corporation Stop: Ford FB 1000-6-Q - 1-1/2"
3. Service tubing: Type K copper - soft - 1-1/2"
4. Ford male adapter - C84-66-Q - 1-1/2"
5. Meter box valve: 5 = Ford Angle Stop - BA-11-666W - 1-1/2" 5A = Ford Straight Stop - B11-666W - 1-1/2"
6. Brass all thread I.P.S. - 1-1/2"
7. Meter Flange - CF31-66 - 1-1/2"
8. Meter box and lid: ~~Old Castle meter box, CI lid with Reader #65~~ Old Castle/Christy meter box and lid: - B65 Concrete Box - B65P001-F Concrete Lid Marked with Flex-Net Probe Hole provision

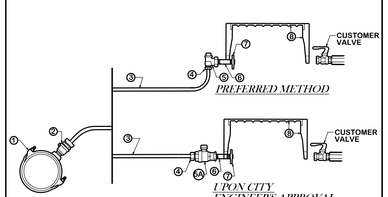


CITY OF BRYAN STRAIGHT OR ANGLE TAP-1-1/2"

W6-02

NOTES:

1. Service saddle, SS straps, CC threads Installed per manufacturer's recommendations. All main types: Smith Blair 317
2. Corporation Stop: Ford FB 1000-7-Q (cc thread) - 2"
3. Service tubing: Type K copper - cu - soft - 2"
4. Ford male adapter - C84-77-Q - 2"
5. Meter box valve: 5 = Ford Angle Stop - BA-11-777W - 2" 5A = Ford Straight Stop - B11-777W - 2"
6. Brass nipple I.P.S. - 2" x 3"
7. Meter Flange - CF31-77 - 2"
8. Meter box and lid: ~~Old Castle meter box, CI lid with Reader #36.~~ Old Castle/Christy meter box and lid: - B09 Utility Box - N09R Concrete Lid Marked "Water" with Flex-Net Sensus Probe Hole



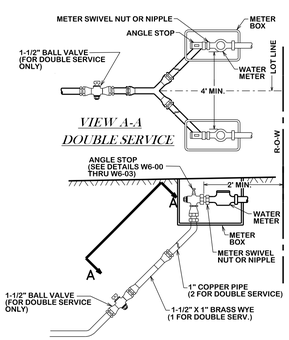
CITY OF BRYAN STRAIGHT OR ANGLE TAP - 2"

W6-03

NOTES:

1. ALL CONNECTIONS TO BE COMPRESSION TYPE.
2. MATERIAL USED SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
3. ALL SERVICE WYES & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION.
4. EXISTING METER BOXES ARE TO BE REMOVED. THE NEW METER BOXES SHALL BE OLD CASTLE.
5. ANGLE STOPS MAY BE USED FOR NEW CONSTRUCTION IF FINISHED ELEVATION IS KNOWN. THE STOP MUS BE INSTALLED 10"-12" BELOW THE FINISHED ELEVATION.

METER NUT SIZE	FORD PART NO.
3/4" x 2.5" Long	C38-23-2-5
3/4" x 3" Long	C38-23-3
3/4" x 12" Long	C38-23-12
1" x 2.625" Long	C38-44-2-625
1" x 8.5" Long	C38-44-8-5
1-1/2" Meter Nipple	C38-66-2-875
1-1/2" Meter Bushing	BBIM-66
2" Meter Nipple	C38-77
2" Meter Bushing	BBIM-77



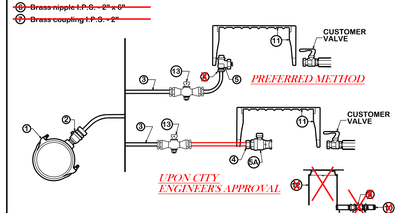
VIEW A-A
DOUBLE SERVICE

CITY OF BRYAN WATER SERVICE RECONNECTION

W6-04

NOTES:

1. Service saddle, ~~SS straps~~, CC threads Installed per manufacturer's recommendations. All main types: ~~Cambridge 800 Series or~~ Ford S70/S90
2. Corporation Stop: Ford FB 1000-7 (cc thread) - 2"
3. Service tubing: Type K copper - cu - soft - 2"
4. ~~Ford male adapter - C84-77- 2"~~
5. Meter box valve: 5 = Ford Angle Stop - FV-43-777W - 2" 5A = Ford Straight Stop - B11-777W - 2"
6. ~~Brass nipple I.P.S. - 2" x 6"~~
7. ~~Brass coupling I.P.S. - 2"~~
8. ~~Swivel nut - C38-77 - 2"~~
9. ~~Meter adapter - BBIM-77 - 2"~~
10. ~~Brass nipple I.P.S. - 2" x 3"~~
11. Meter box and lid: Old Castle meter box, CI lid with Reader #65
12. ~~Meter box and lid: Old Castle 12" round valve box #3017~~
13. Ball valve



CITY OF COLLEGE STATION STRAIGHT OR ANGLE TAP - 2"

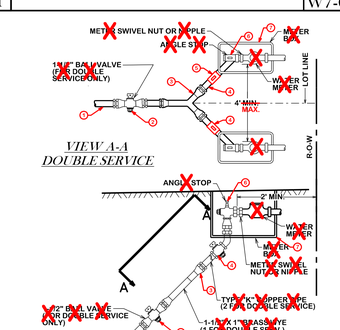
W7-03

NOTES:

1. ALL CONNECTIONS TO BE COMPRESSION TYPE.
2. MATERIAL USED SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
3. ALL SERVICE WYES & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION.
4. ~~EXISTING METER BOXES ARE TO BE REMOVED. THE NEW METER BOXES SHALL BE OLD CASTLE.~~

1. Service Tubing: Type K Copper - cu - soft - 1.50"
2. Ford Ball Valve - B44-666-NL- 1.50"
3. Ford "Y" Branch - Y44-264-NL- 1.50" x 1" x 1"
4. Service Tubing: Type K Copper - cu - soft - 1"
5. Ford Ball Valve - B44-444-NL - 1"
6. Ford Angle Stop KV43-332W-NL - 1" x 0.75 Meter Nut Swivel
7. Concrete Meter Box - Provided by COCS

METER NUT SIZE	FORD PART NO.
3/4" x 2.5" Long	C38-23-2-5
3/4" x 3" Long	C38-23-3
3/4" x 12" Long	C38-23-12
1" x 2.625" Long	C38-44-2-625
1" x 8.5" Long	C38-44-8-5
1-1/2" Meter Nipple	C38-66-2-875
1-1/2" Meter Bushing	BBIM-66
2" Meter Nipple	C38-77
2" Meter Bushing	BBIM-77



CITY OF COLLEGE STATION DOUBLE WATER SERVICE RECONNECTION

W7-04

REVISIONS:

7/1/2016 - Details W6-00 thru W6-04 Accepted for use by COB

BRYAN - COLLEGE STATION STANDARD WATER DETAILS

City of College Station

City of Bryan
The Good Life, Texas Style.

DRAWN BY: C.L.M.
DATE: 08-01-12
SCALE: N T S
APPROVED: W. P. K.
FIGURE:

W2

SHEET 2 OF 2