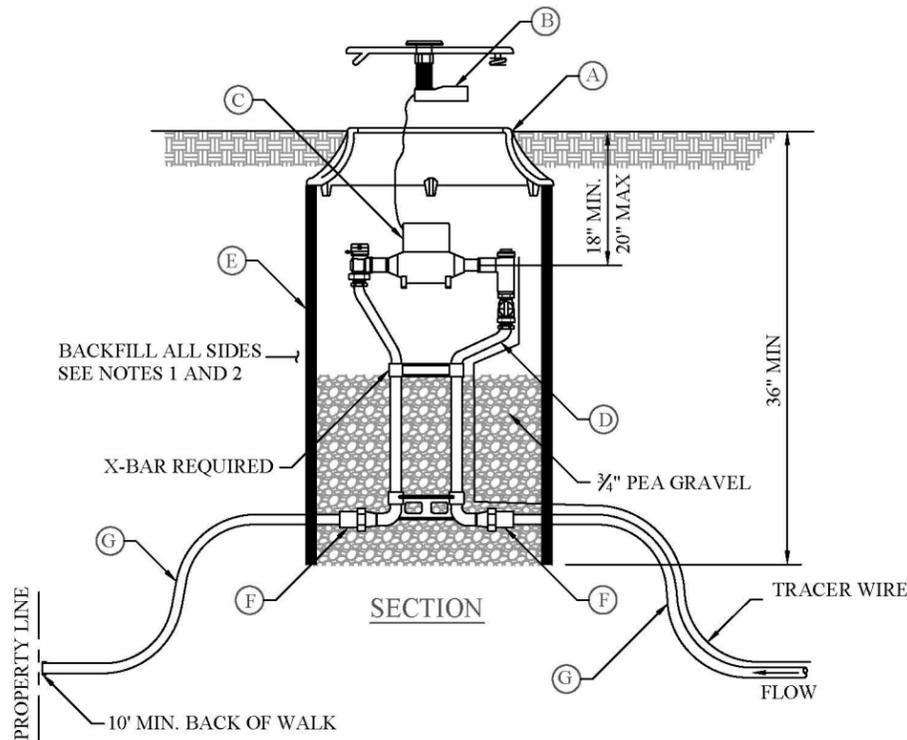


LEGEND		
NO.	ITEM	DESCRIPTION
(A)	1" POLY PIPE	IPS POLY PIPE
(B)	1" CORPORATION STOP	TYPE A FORD-FB 1101-4-Q OR MUELLER B-25029      TYPE B FORD-FB 1001-4-Q OR MUELLER B-25009
(C)	SERVICE SADDLE CLAMP	FORD-FB 202B MUELLER BR2B SERIES
(D)	WATER MAIN PIPE	(D.I., P.V.C.) *

\* DI PIPE MAY BE DIRECT TAPPED, IF DIRECT TAP USE CC THREADS

TYPICAL 1" MIN. SERVICE TAPS



LEGEND		
NO.	ITEM	DESCRIPTION
(A)	FRAME AND COVER	23" CAST IRON THE WORDS "WATER MEETER" CAST INTO COVER 2" DIA. KNOCK OUT REQUIRED IN COVER
(B)	RADIO UNIT	NEPTUNE R-900 RADIO PIT UNIT
(C)	WATER METER	NEPTUNE 5/8" X 3/4" T-10 METER WITH AUTO DIRECT REGISTER
(D)	3/4" WATER METER YOKE	COPPER FORD VBHC72-95581-02 AYMCDONALD 21-218DWZZ
(D)	1" WATER METER YOKE	COPPER FORD VBHC74-95581-02 AYMCDONALD 21-418MZZ
(E)	METER BARREL	21" X 36" WHITE HDPE BARREL
(F)	CONNECTION	1"-FORD 1644-Q W/ INSERT OR MULLER COMPRESSION FITTINGS W/ INSERT
(G)	1" POLY PIPE	IPS POLY PIPE

TYPICAL 3/4" METER

NOTES FOR 1" MINIMUM SERVICE TAPS:

- INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY CITY.
- BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER APWA SECTION 31 05 20.
- TAPPING: PLACE TAPS A MINIMUM 24" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 24" OF THE END OF PIPE.
- PVC PIPE: A SERVICE SADDLE CLAMP IS REQUIRED ON ALL PVC PIPE UNLESS SPECIFIED OTHERWISE.
- TAPE: TEFLON TAPE IS REQUIRED ON ALL TAPS.

NOTES FOR 3/4" METER WITH 1" SERVICE LINE:

- INSPECTION: PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
- BACKFILLING: INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 31 05 13 IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM RELATIVE DENSITY OF 95%.
- METER BOX: NO GRADE RINGS ALLOWED TO RAISE METER BOX.
- METER IN TRAFFIC AREAS: PROVIDE SAME TYPE OF METER BOX AS REQUIRED FOR 1 1/2" AND 2" SERVICE METERS (SEE CW-11).
- METER: HERRIMAN CITY WILL PROVIDE AND INSTALL METER.
- PIPE: INSTALL IPS POLY PIPE TO 10' MIN. FROM BACK OF WALK. COORDINATE WITH UTILITY AGENCY FOR TYPE OF PIPE TO BE USED OUTSIDE OF RIGHT- OF- WAY.
- PLACEMENT:
  - DO NOT INSTALL METER BOX UNDER DRIVEWAY APPROACHES, SIDEWALKS, OR CURB AND GUTTER
  - IN NEW CONSTRUCTION, INSTALL METER NEAR CENTER OF LOT IN PARKSTRIP.
  - 3' MIN. AWAY FROM DRIVE APPROACH.
- INSERTS REQUIRED WITH ALL COMPRESSION FITTINGS.

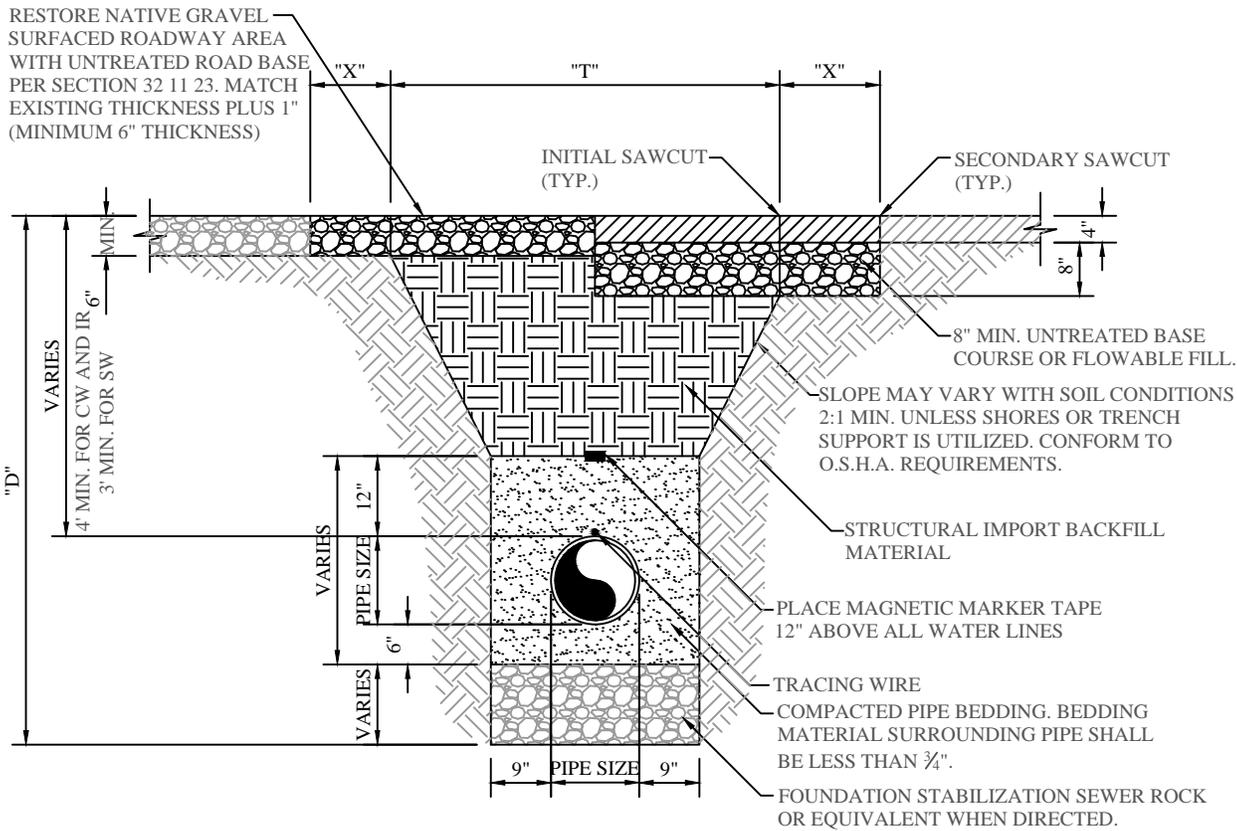
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1	7/7/11	TB		

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SHEET NAME	3/4" AND 1" WATER METER WITH 1" WATER SERVICE	DATE
	CITY ENGINEER	



## TYPICAL TRENCH

"D" = TRENCH DEPTH  
 "T" = TRENCH WIDTH  
 "X" = 2' IF "D" IS LESS THAN 42"  
 "X" = 3' IF "D" IS GREATER THAN 42"

### NOTES:

- ADDITIONAL PAVEMENT REMOVAL:** REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, A CURB, AN EXISTING PAVEMENT PATCH, OR AN EDGE OF PAVEMENT IF SUCH A FEATURE IS WITHIN 2' OF THE SECOND SAW-CUT. IF MORE THAN 50% OF THE PERMANENT SURFACING OF A TRAVELED LANE IS IMPACTED BY THE EXCAVATION, THE ENTIRE LANE WIDTH SHALL BE SAW-CUT, REMOVED, AND REPLACED.
- UNTREATED BASE COURSE:** PROVIDE MATERIAL SPECIFIED IN SECTION 32 11 23. PLACE AND COMPACT PER SECTION 31 23 26. MAXIMUM LIFT THICKNESS IS 8" BEFORE COMPACTION.
- SHORING:** SHORE IN CONFORMANCE WITH SECTION 31 41 00.
- TACK COAT:** FULL TACK COAT COVERAGE ON ALL VERTICAL SURFACES PER SECTION 32 12 14.
- ASPHALT PAVEMENT:** USE ASPHALT H.M.A SPECIFIED IN SECTION 321205 AND SECTION 32 12 03.
  - INSTALL IN LIFTS NO GREATER THAN 3" AFTER COMPACTION.
  - COMPACT EACH LIFT IN CONFORMANCE WITH SECTION 32 12 03.
  - PLANE OFF SURFACE DISTORTIONS THAT EXCEED 1/4" DEVIATION IN 10'. COAT PLANED SURFACES WITH A CATIONIC OR ANIONIC EMULSION AS APPROVED BY CITY ENGINEER.
- ASPHALT PAVEMENT THICKNESS DEPTH SHALL EQUAL EXISTING PLUS 1", 4" MIN.
- USE 1/2" GRADATION PER SECTION 32 12 05.
- PATCH REPAIR:** REPAIR THE ASPHALT PAVEMENT PATCH IF ANY OF THE FOLLOWING CONDITIONS WITHIN THE PATCH OCCUR.
  - CRACKS AT LEAST 1' LONG AND 1/4" WIDE OCCUR MORE OFTEN THAN 1 IN 10 SQUARE FEET.
  - PAVEMENT SURFACE DISTORTION EXCEEDS 1/4" DEVIATION IN 10'.
  - ASPHALT RAVELING IS GREATER THAN 1 SQUARE FOOT PER 100 SQUARE FEET.
  - IF SLURRY SEAL WITHIN 1 YEAR, RE-SLURRY SEAL FULL LANE WIDTH FOR EACH LANE EFFECTED.
  - CRACK SEAL TRENCH JOINTS WITHIN ONE YEAR.
- EQUIPMENT:** ALL ASPHALT PAVEMENT SHALL BE INSTALLED WITH MECHANICAL PAVING EQUIPMENT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

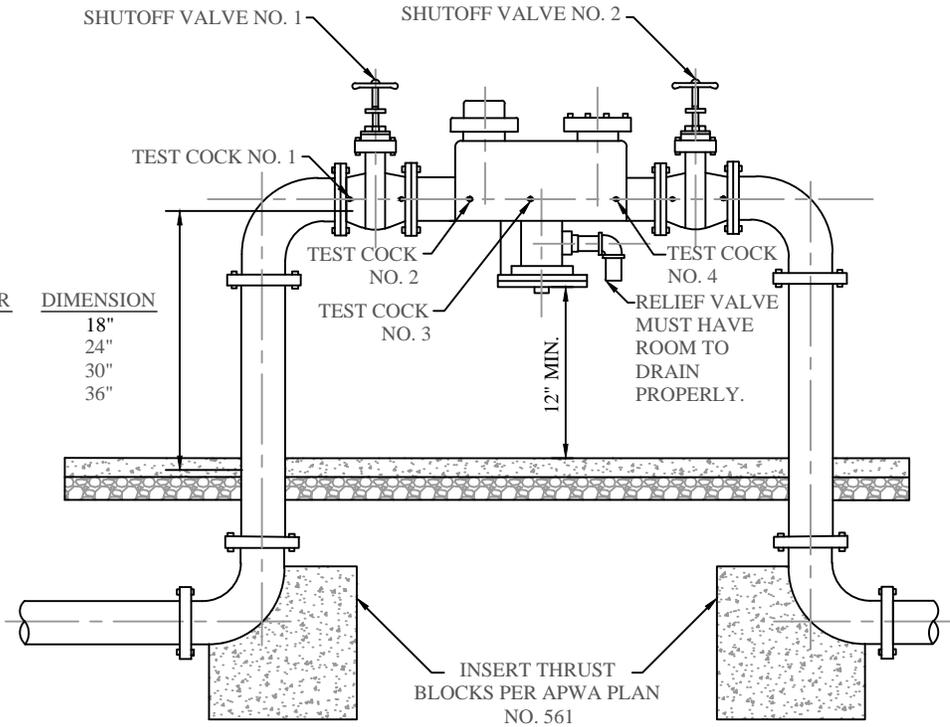
REVISIONS		REMARKS
NO.	DATE	



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<b>TRENCH DETAILS</b>	DATE _____
SHEET NAME	CITY ENGINEER
SHEET	
<b>CW-02</b>	

PIPE DIAMETER	DIMENSION
3/4"-1 1/2"	18"
2"-3"	24"
4"-6"	30"
8"-10"	36"



**NOTES:**

1. UNIT MAY BE INSTALLED IN METAL OR CONCRETE ENCLOSURE. ENSURE THAT ENCLOSURE DRAINS FREELY.
2. PIPELINE SHALL BE FLUSHED BEFORE INSTALLATION.
3. MOUNT UNIT IN UPRIGHT POSITION. INSTALL SUPPORTS PER MANUFACTURER RECOMMENDATION.
4. ALLOW MIN. 12" CLEARANCE AROUND UNIT TO CONDUCT TESTING AND REPAIRS.
5. NEW INSTALLATION SHALL BE INSPECTED AND TESTED BY LICENSED BACK-FLOW PREVENTION TESTER.
6. TEST TO BE PERFORMED BY OWNER OF ASSEMBLY WITHIN 10 DAYS OF INITIAL USE.
7. EXCEPT FOR MACHINED SURFACES, COAT ALL ITEMS EXPOSED TO ATMOSPHERE WITH EPOXY PAINT. COLOR TO BE SELECTED BY ENGINEER.
8. SHALL NOT BE INSTALLED IN A VAULT.
9. ENSURE TEST COCK PLUGS ARE INSTALLED SECURELY AND ARE LEAK PROOF.
10. ABOVE GROUND INSTALLATION ONLY

REVISIONS		REMARKS
NO.	DATE	DRAWN BY

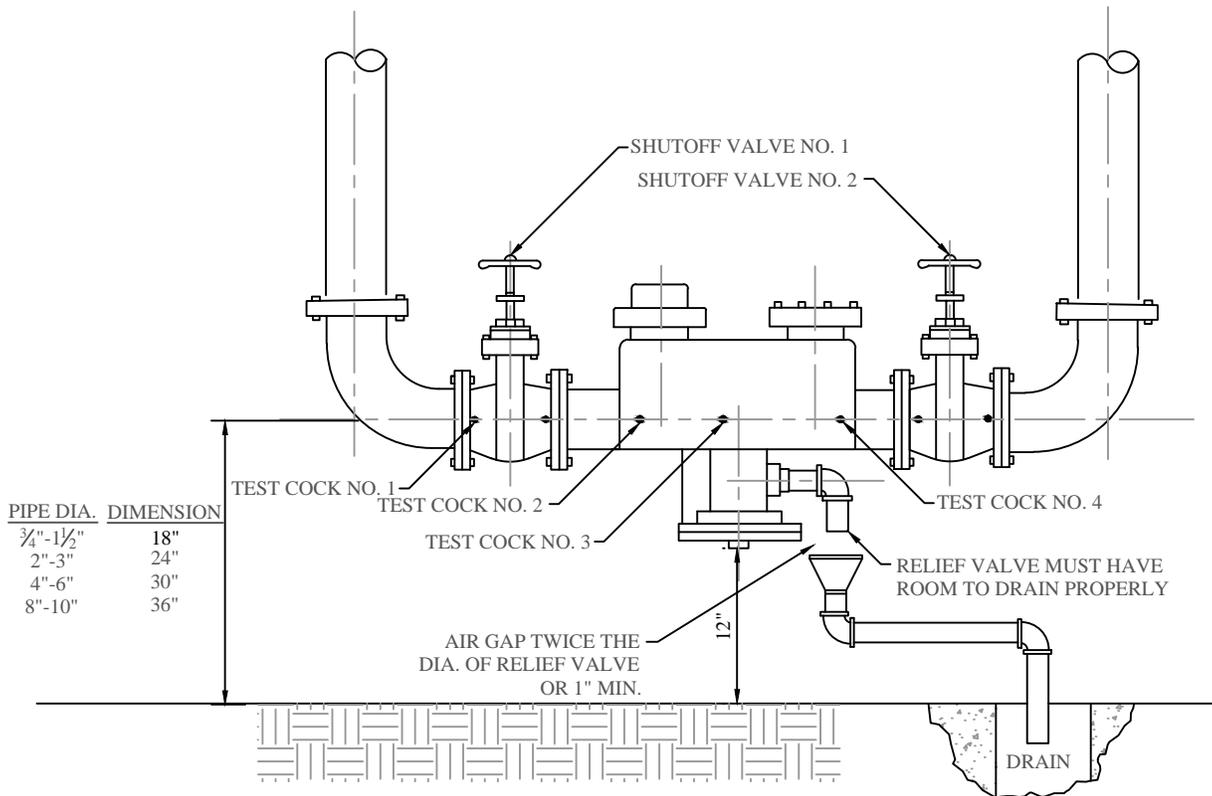

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**REDUCE PRESSURE  
BACKFLOW PREVENTION (GROUND)**

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SHEET NAME \_\_\_\_\_

SHEET  
**CW-03**



PIPE DIA.	DIMENSION
3/4"-1 1/2"	18"
2"-3"	24"
4"-6"	30"
8"-10"	36"

**NOTES:**

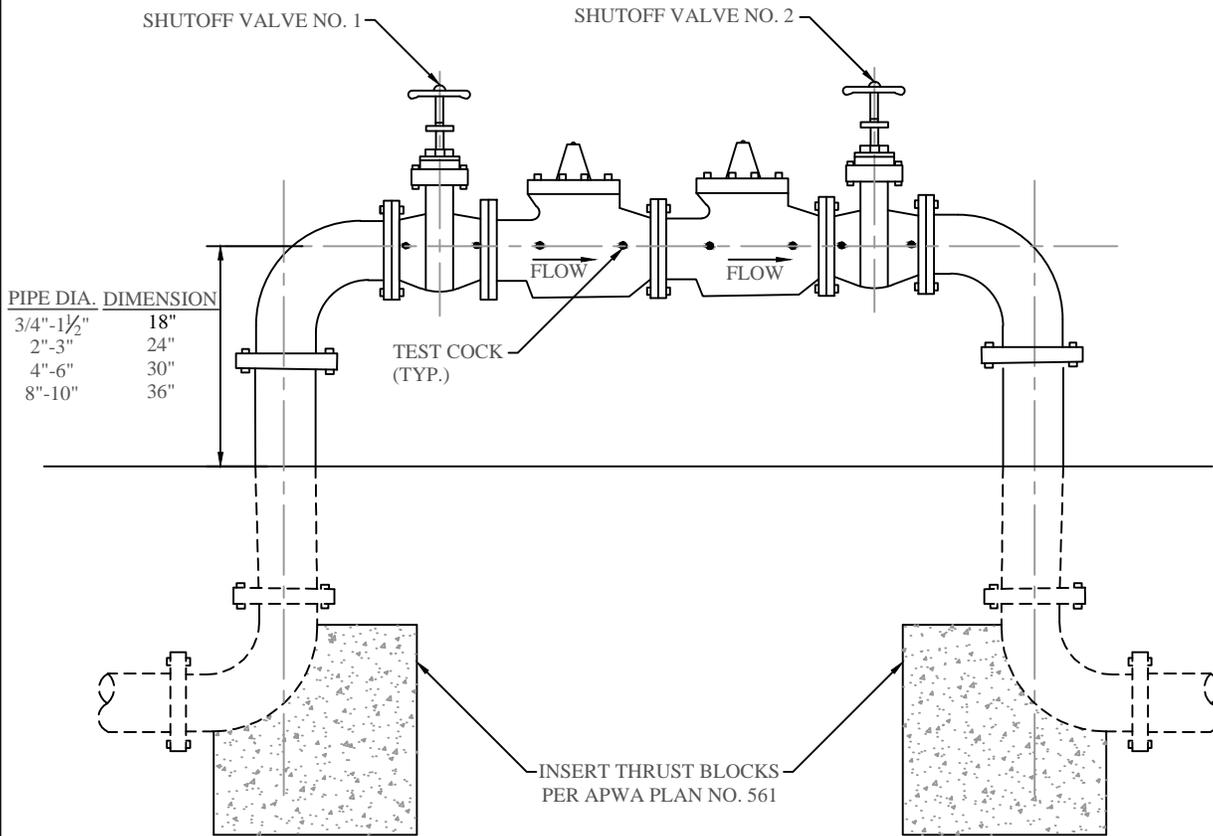
1. UNIT MAY BE INSTALLED IN METAL OR CONCRETE ENCLOSURE. ENSURE THAT ENCLOSURE DRAINS FREELY.
2. PIPELINE SHALL BE FLUSHED BEFORE INSTALLATION.
3. MOUNT UNIT IN UPRIGHT POSITION. INSTALL SUPPORTS PER MANUFACTURER RECOMMENDATION.
4. ALLOW MIN. 12" CLEARANCE AROUND UNIT TO CONDUCT TESTING AND REPAIRS.
5. NEW INSTALLATION SHALL BE INSPECTED AND TESTED BY A LICENSED BACK-FLOW PREVENTION TESTER.
6. TEST TO BE PERFORMED BY OWNER OF ASSEMBLY WITHIN 10 DAYS OF INITIAL USE.
7. EXCEPT FOR MACHINED SURFACES, COAT ALL ITEMS EXPOSED TO ATMOSPHERE WITH EPOXY PAINT. COLOR TO BE SELECTED BY ENGINEER.
8. SHALL NOT BE INSTALLED IN VAULT.
9. ENSURE TEST COCK PLUGS ARE INSTALLED SECURELY AND ARE LEAK PROOF.

REVISIONS		REMARKS
NO.	DATE	DRAWN BY


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**REDUCED PRESSURE BACKFLOW PREVENTION (SUSPENDED)**  
 SHEET NAME \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER \_\_\_\_\_

SHEET  
**CW-04**



NOTES:

1. ABOVE GROUND INSTALLATION PREFERRED. UNIT MAY BE INSTALLED BELOW GROUND IF DRAINAGE ENSURES UNIT WILL NOT BE SUBMERGED.
2. PIPELINE SHALL BE FLUSHED BEFORE UNIT IS INSTALLED.
3. MOUNT UNIT IN UPRIGHT POSITION IN A HORIZONTAL PIPE RUN. INSTALL SUPPORTS PER MANUFACTURER RECOMMENDATION.
4. ALLOW MIN. 12" CLEARANCE AROUND UNIT TO CONDUCT TESTS AND REPAIRS.
5. NEW INSTALLATION SHALL BE INSPECTED AND TESTED BY LICENSED BACK-FLOW PREVENTION TESTER.
6. TEST TO BE PERFORMED BY OWNER OF ASSEMBLY WITHIN 10 DAYS OF INITIAL USE.
7. ENSURE TEST COCK PLUGS ARE INSTALLED SECURELY AND ARE LEAK PROOF.

REVISIONS		REMARKS
NO.	DATE	DRAWN BY


  
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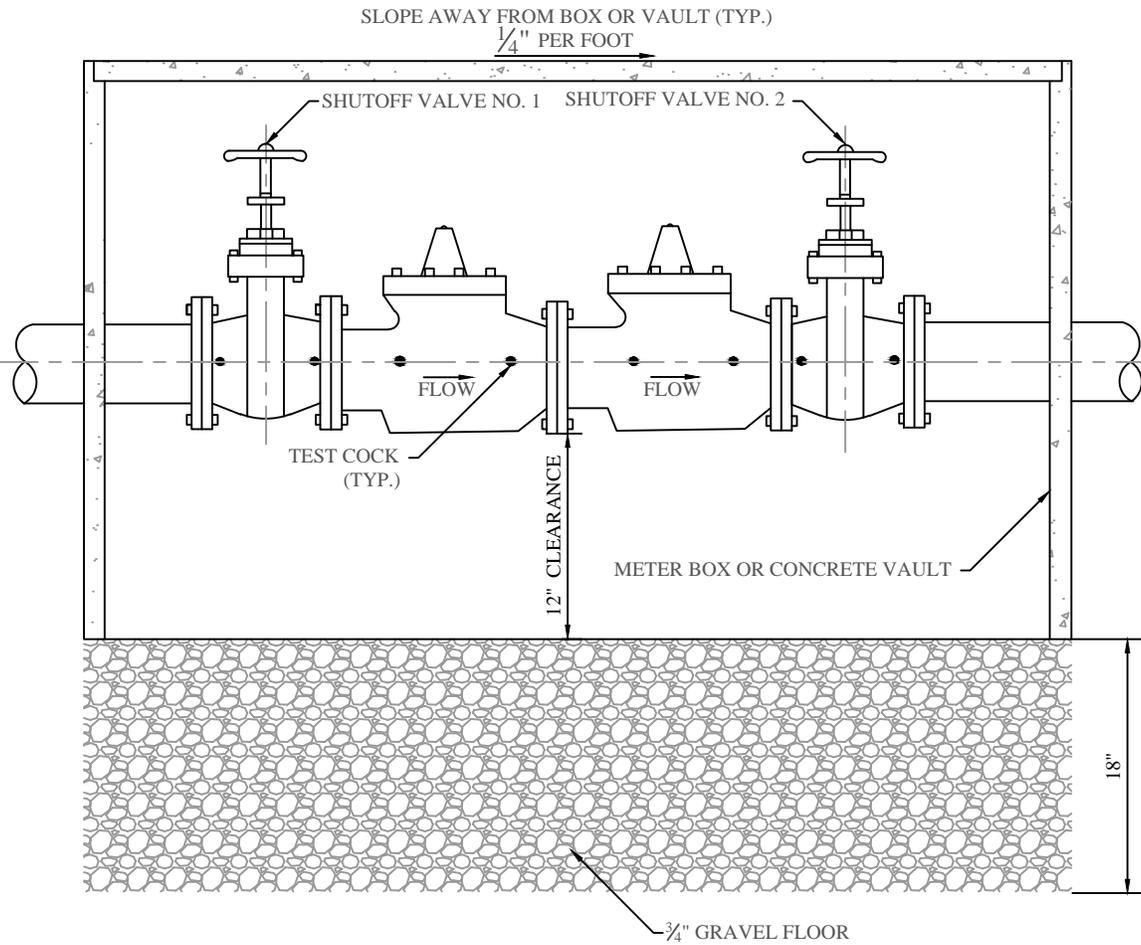
**DOUBLE CHECK VALVE**  
**BACKFLOW PREVENTION (SURFACE)**

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SHEET NAME \_\_\_\_\_

SHEET

**CW-05**



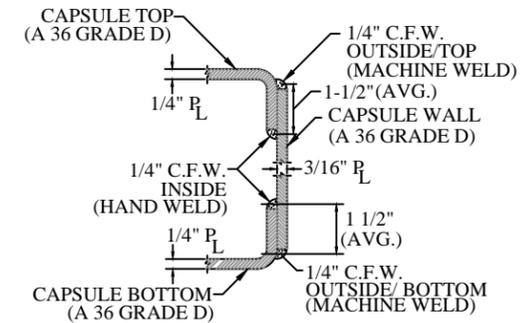
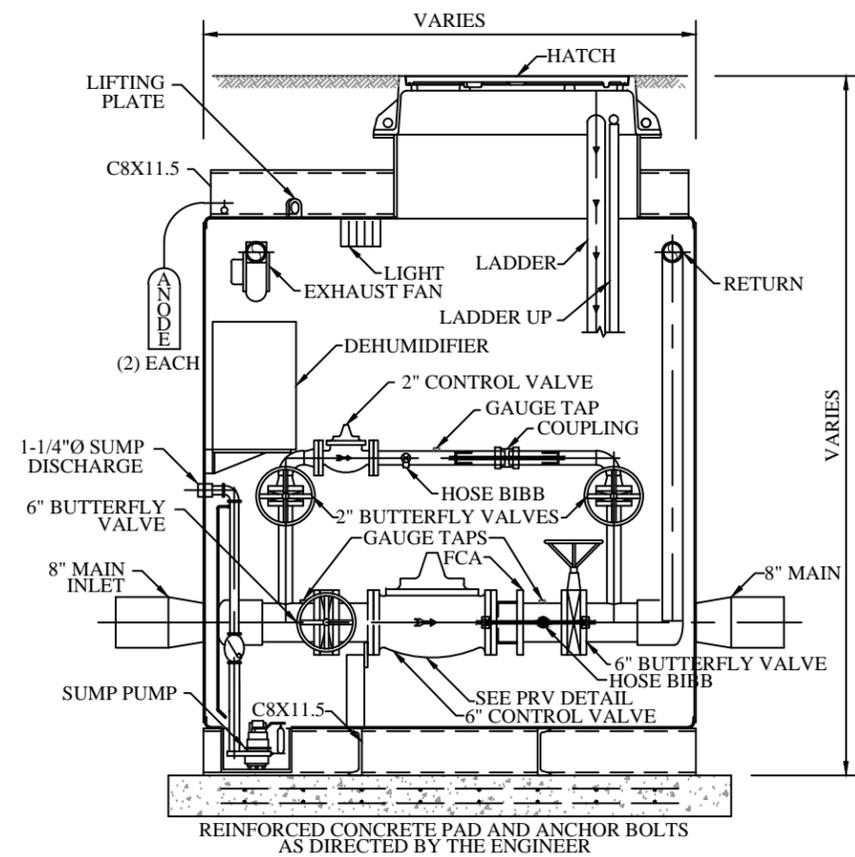
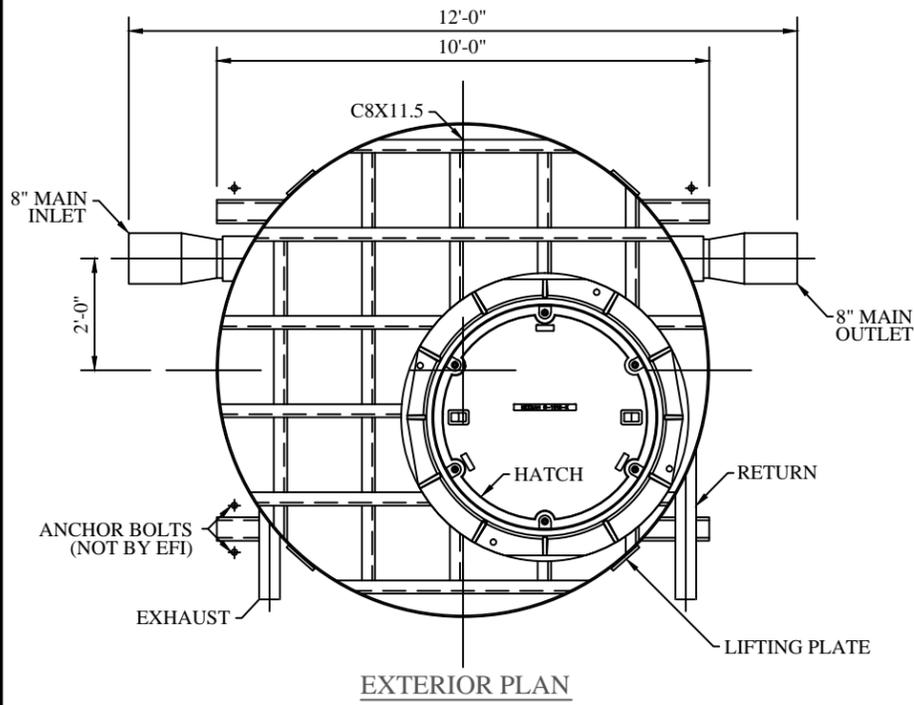
**NOTES:**

1. ABOVE GROUND INSTALLATION PREFERRED. UNIT MAY BE INSTALLED BELOW GROUND IF DRAINAGE ENSURES UNIT WILL NOT BE SUBMERGED.
2. PIPELINE SHALL BE FLUSHED BEFORE UNIT IS INSTALLED.
3. MOUNT UNIT IN UPRIGHT POSITION IN A HORIZONTAL PIPE RUN. INSTALL SUPPORTS PER MANUFACTURER RECOMMENDATION.
4. ALLOW MIN. 12" CLEARANCE AROUND UNIT TO CONDUCT TESTS AND REPAIRS.
5. NEW INSTALLATION SHALL BE INSPECTED AND TESTED BY LICENSED BACK-FLOW PREVENTION TESTER.
6. TEST IS TO BE PERFORMED BY OWNER OF ASSEMBLY WITHIN 10 DAYS OF INITIAL USE.
7. ENSURE TEST COCK PLUGS ARE INSTALLED SECURELY AND ARE LEAK PROOF.
8. CONCRETE BOX SHALL BE PER APWA 03 30 04 CLASS 4000.

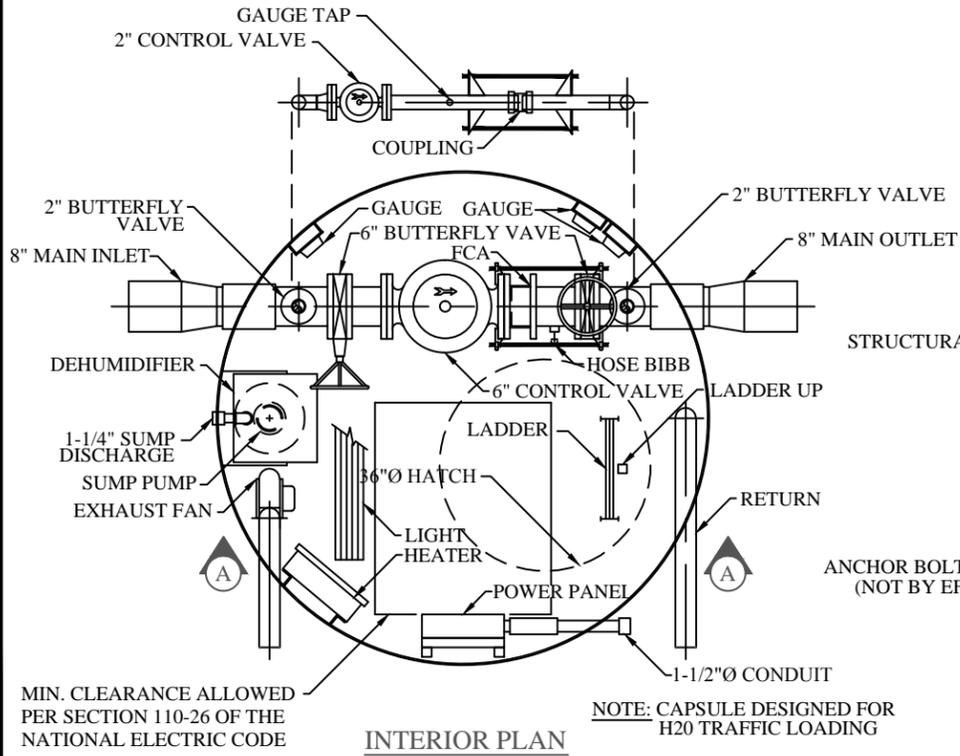
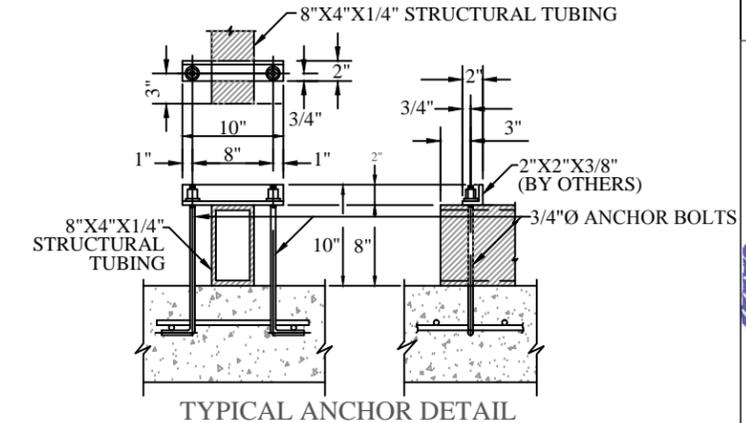
REVISIONS		REMARKS
NO.	DATE	DRAWN BY


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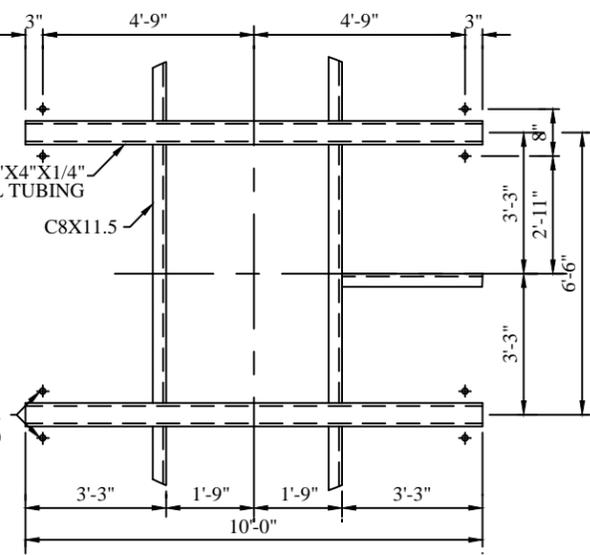
**DOUBLE CHECK VALVE BACKFLOW PREVENTION (SUB-SURFACE)**  
 SHEET NAME \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER \_\_\_\_\_



C.F.W. - CONTINUOUS FILLET WELD  
LAP JOINT CONNECTION  
OF CAPSULE WALL PLATE  
WITH FLANGE TOP AND BOTTOM



NOTE: CAPSULE DESIGNED FOR H2O TRAFFIC LOADING



GENERAL NOTES:

1. THE ACTUAL SIZE OF THE CONTROL VALVES, PIPES, AND BUTTERFLY VALVES WILL VARY DEPENDING ON FLOW REQUIREMENTS OF THE STATION.
2. ALL PIPING AND EQUIPMENT WILL BE ADEQUATELY SUPPORTED AND BRACED.
3. CAPSULE AND STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36.
4. STRUCTURAL TUBING: A500, GRADE B.
5. SCHEDULE 40 STEEL PIPE.
6. MANUFACTURER REQUIRES A 3-4 MONTH LEAD TIME PRIOR TO DELIVERY OF PRV.
7. FCA- FLANGED COUPLING ADAPTER.
8. PLATE & STRUCTURAL STEEL: ASTM A-36
9. ALL PILOTING SHALL BE STAINLESS STEEL COMPRESSION FITTINGS. NO FLARED FITTINGS.
10. ALL VENT CAPS NEED TO BE MUSHROOM CAPS.
11. ALL PRV'S SHALL BE EPOXY COATED INSIDE AND OUT, INCLUDING ALL INTERNAL PARTS.
12. TWO ANNODS WITH TEST METER.

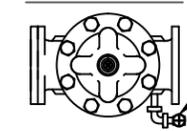
NOTE:

1. ANCHOR CLIPS, BOLTS & NUTS PROVIDED BY INSTALLER.

CONTRACTOR'S NOTES:

1. CONTRACTOR SHALL PROVIDE GALVANIZED STEEL MUSHROOM VENT PIPING. (SEE CW-09)
2. CONTRACTOR SHALL PROVIDE FULL METER ENCLOSURE (NEMA 4X STAINLESS STEEL) FOR METER BASE. CONTRACTOR SHALL RUN POWER TO METER BASE. PRV STATION SHALL BE A FULLY FUNCTIONING STATION.
3. INSTALL POLYURETHANE FLOOR, SLOPING TO THE SUMP.
4. SUMP PUMP AND DEHUMIDIFIER MUST BE POWERED UP AND TURNED ON IMMEDIATELY AFTER THE STATION IS SET IN PLACE.
5. DO NOT SHIM STATION. IT IS INTENDED THAT THE MAIN FLOOR MEMBERS BE IN CONTINUOUS CONTACT WITH THE CONCRETE PAD MUST HAVE 2% GRADE.

PRV DETAIL

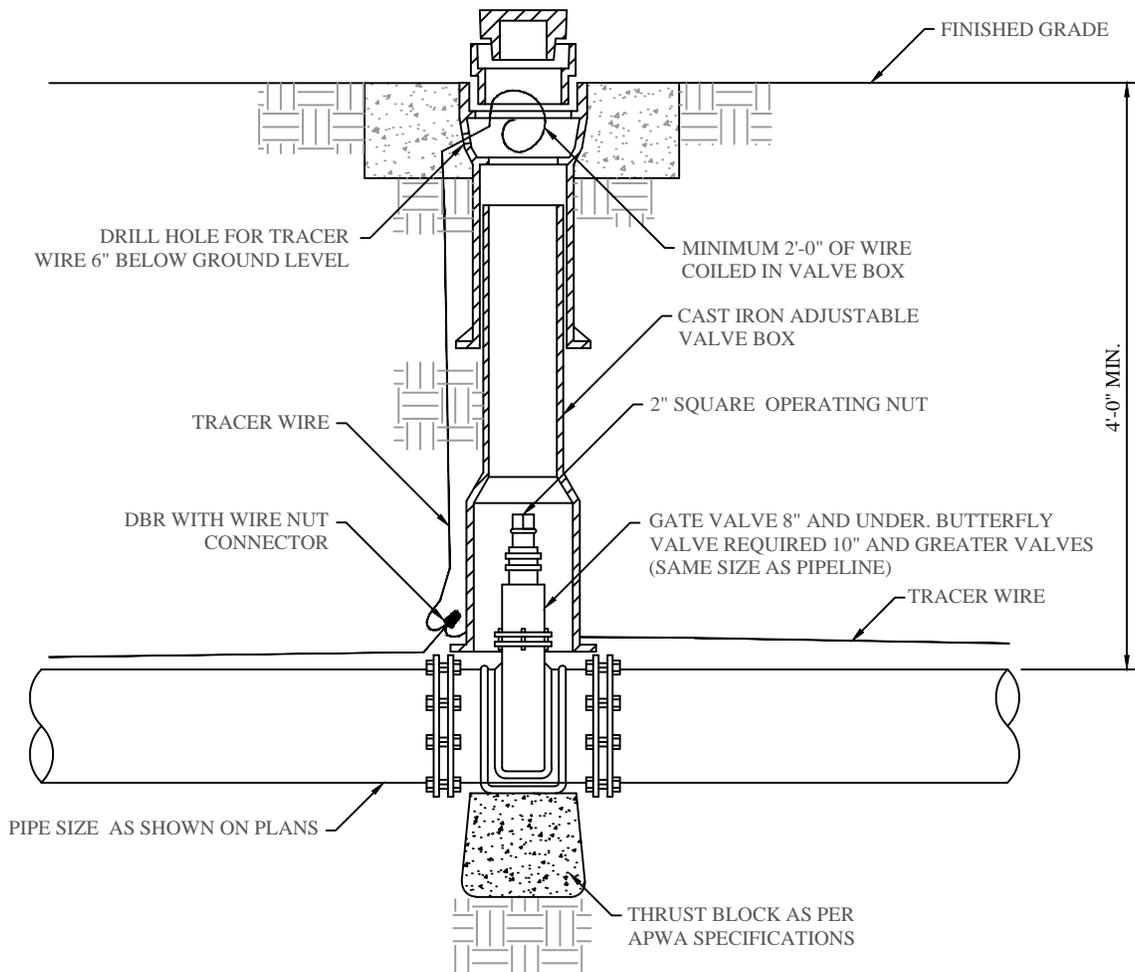


PRV 6" OR LARGER SHALL HAVE A NIPPLE X ELBOW X NIPPLE X BALL VALVE WITH HOSE ADAPTER AND CAP INSTALLED IN FACTORY THREADED TAP ON DOWNSTREAM SIDE OF VALVE. IF THREADED TAP IS NOT FACTORY CAST, PROVIDE A HOSE BIBB BETWEEN PRV AND GATE VALVE. DO NOT INSTALL ON GAGE TAP.

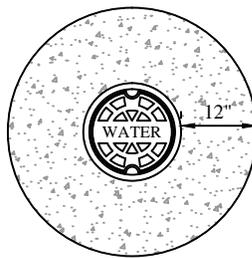
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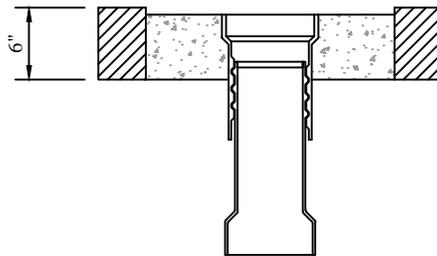
SHEET NAME: **PRESSURE REDUCING VALVE (PRV) EFI STATION**
  
 CITY ENGINEER: \_\_\_\_\_
   
 DATE: \_\_\_\_\_
   
 SHEET: **CW-07**



CULINARY



PLAN



PROFILE

NOTES:

1. VALVE BOX SHALL BE CLEAN, PLUMB AND PROPERLY ALIGNED ON THE VALVE.

REVISIONS		REMARKS
NO.	DATE	DRAWN BY

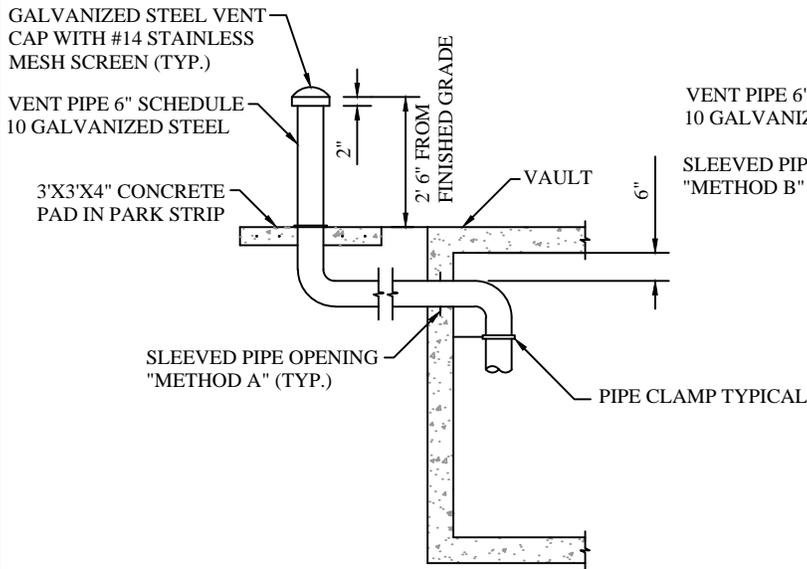

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WATER VALVE \_\_\_\_\_ DATE \_\_\_\_\_  
 CITY ENGINEER \_\_\_\_\_

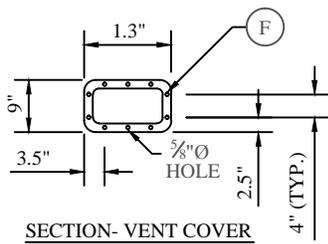
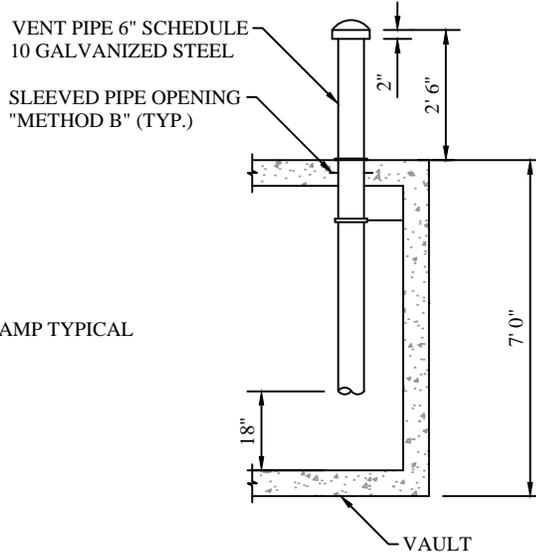
SHEET NAME \_\_\_\_\_  
 SHEET \_\_\_\_\_  
**CW-08**

MUSHROOM CAP DETAIL

METHOD A



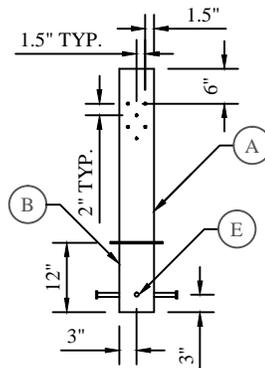
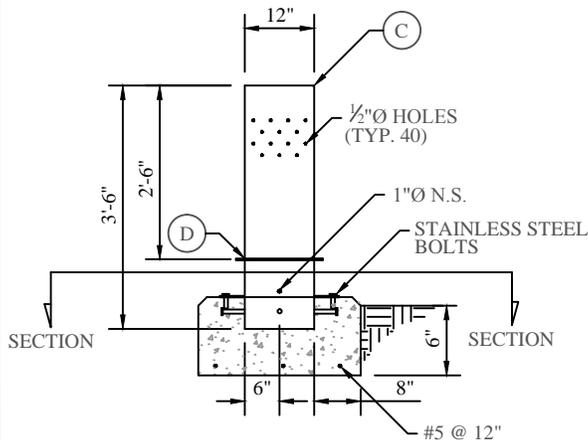
METHOD B



PARTS LIST		
ITEM	QTY	DESCRIPTION
(A)	1	TS 12" X 6" X 1/4" X 2'-6"
(B)	1	TS 12" X 6" X 1/4" X 12"
(C)	1	1/4" PL - 6" X 1'-0"
(D)	2	1/4" PL - 9" X 1'-3"
(E)	4	3/4" Ø X 4" H.S.A.
(F)	10	1/2" Ø X 3" BREAKAWAY BOLTS

NOTES:

1. SIZE OF VENT COVER CAN VARY DEPENDING ON SIZE OF VENT.
2. OPEN TO AIR- PLACE A NO. 14 MESH NON-CORRODIBLE SCREEN OVER THE OPEN END OF P.V.C. PIPE. ATTACH W/S. HOSE CLAMP.
3. HOT DIPPED GALVANIZED STEEL STAND PIPE FOR AIR VENT.
4. 1 1/2" MIN. CHAMFER ALL AROUND CONCRETE BASE.
5. 24" CONCRETE BASE FRONT OF WALK TO TOP BACK OF CURB



VENT COVER

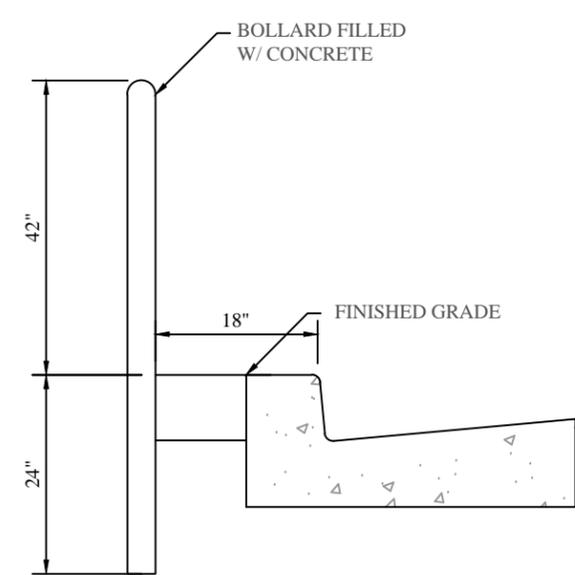
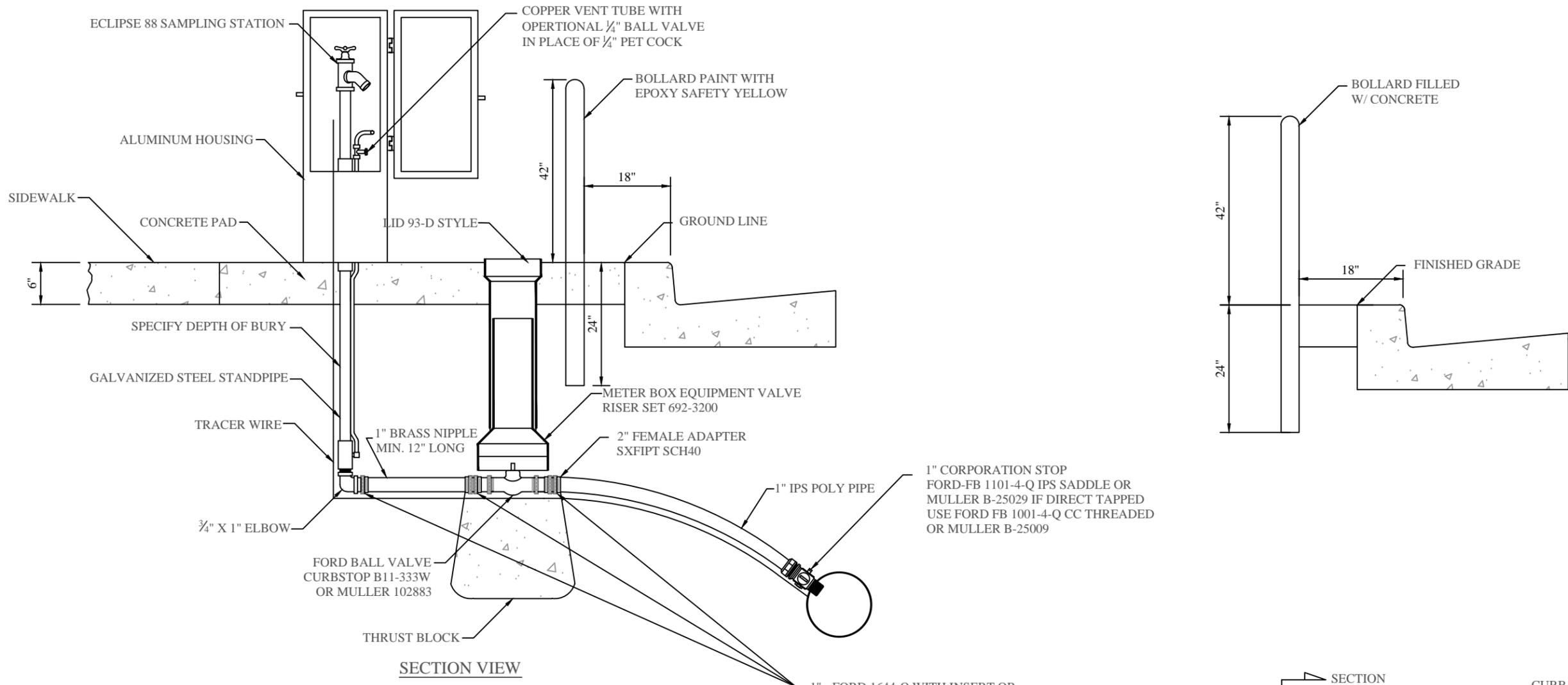
SIDE VIEW  
(ITEMS REMOVED FOR CLARITY)

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NO.	DATE	DRAWN BY

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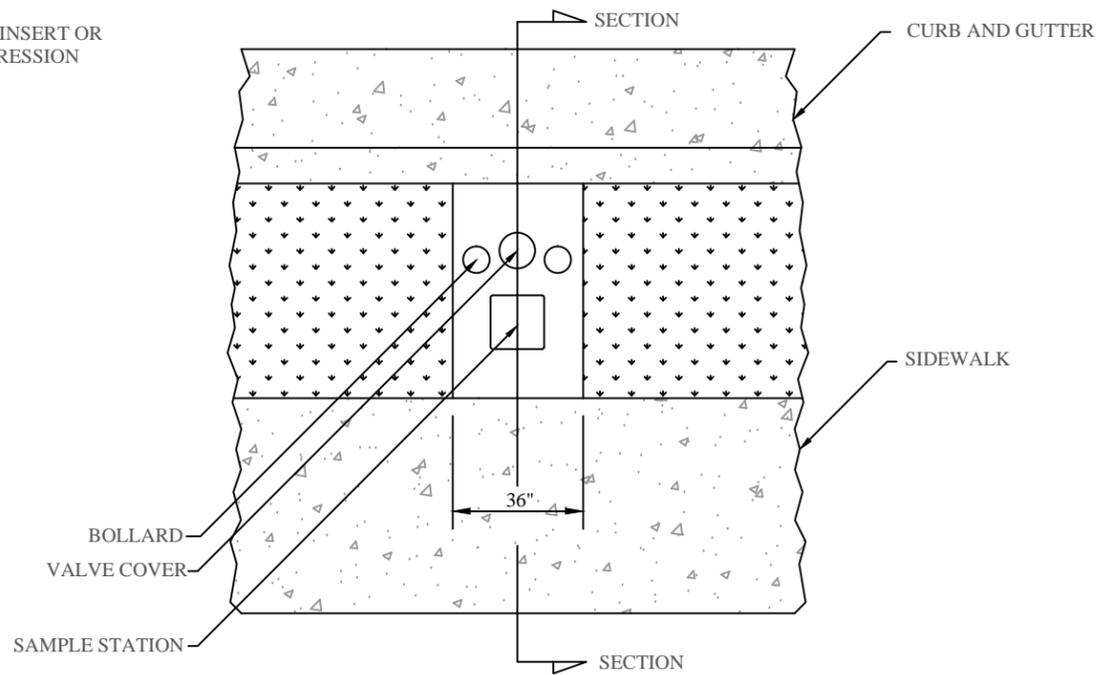
VENT COVER/ VENT DETAIL		DATE
SHEET NAME	CITY ENGINEER	

SHEET  
**CW-09**



1" CORPORATION STOP  
 FORD-FB 1101-4-Q IPS SADDLE OR  
 MULLER B-25029 IF DIRECT TAPPED  
 USE FORD FB 1001-4-Q CC THREADED  
 OR MULLER B-25009

1" - FORD 1644-Q WITH INSERT OR  
 MUELLER 15429 COMPRESSION  
 FITTING WITH INSERT.



PLAN VIEW

**NOTES:**

1. SAMPLING STATIONS SHALL BE 4'-0" BURY, WITH A 3/4" FIP INLET, AND A 3/4" UNTHREADED NOZZLE.
2. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE, ALUMINUM- CAST HOUSING.
3. WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY.
4. ALL WORKING PARTS WILL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING.
5. A COPPER VENT TUBE WILL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIA GROWTH.
6. ECLIPSE NO. 88 SAMPLING STATION SHALL BE MANUFACTURED BY KUPFERLE FOUNDRY, ST LOUIS, MO 63102.
7. DRAWING NOT TO SCALE.
8. ALL DEVELOPERS ARE REQUIRED TO INSTALL A SAMPLING STATION FOR EVERY 80 LOTS OR ONE PER DEVELOPMENT FOR DEVELOPMENTS SMALLER THAN 80 LOTS.
9. DUCTILE IRON MAY BE TAPPED.

NO.	DATE	DRAWN BY	REMARKS


  
**Herriman**
  
 Founded 1851

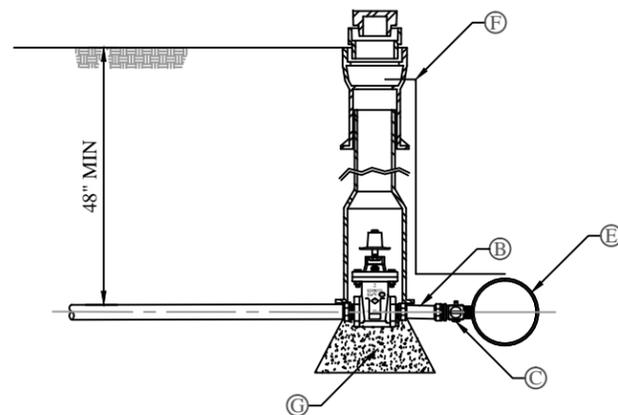
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SAMPLING STATION

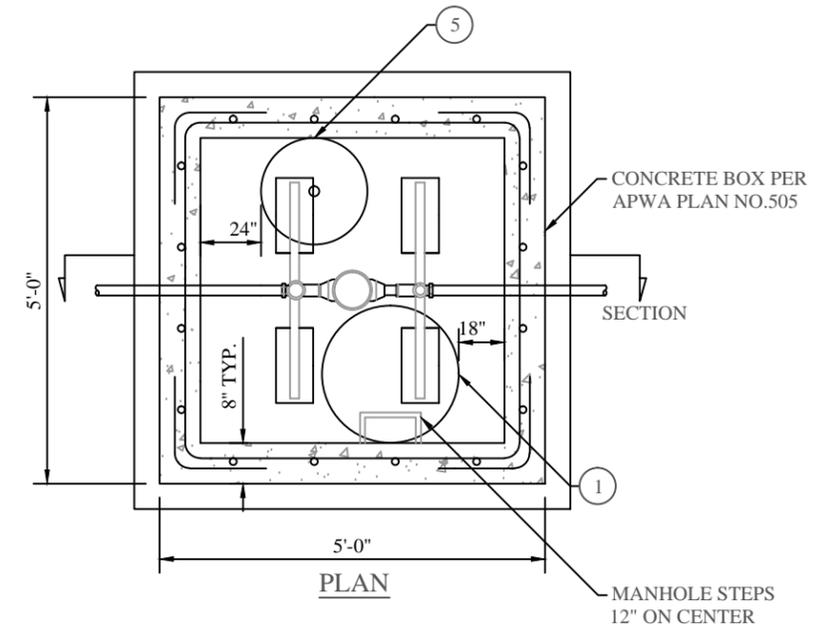
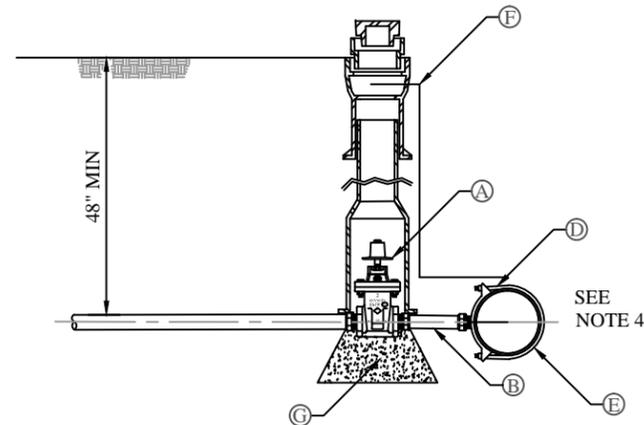
SHEET NAME \_\_\_\_\_ DATE \_\_\_\_\_

CITY ENGINEER \_\_\_\_\_

**TYPE B-DIRECT TAP**



**TYPE A-SADDLE CLAMP TAP**



**TYPICAL 1- 1/2" AND 2" SERVICE TAPS**

**NOTES FOR 1- 1/2" AND 2" SERVICE TAPS:**

- INSPECTION:** PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY CITY.
- BACKFILL:** INSTALL AND COMPACT ALL BACKFILL MATERIAL PER APWA SECTION 310520
- TAPPING:** PLACE TAPS A MIN. 24" APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 24" OF THE END OF PIPE.
- PVC PIPE:** A SERVICE SADDLE CLAMP IS REQUIRED ON ALL PVC PIPE UNLESS SPECIFIED OTHERWISE.
- TAPE:** TEFLON TAPE IS REQUIRED ON ALL TAPS.

**NOTES FOR 1 1/2" AND 2" SERVICE LINE:**

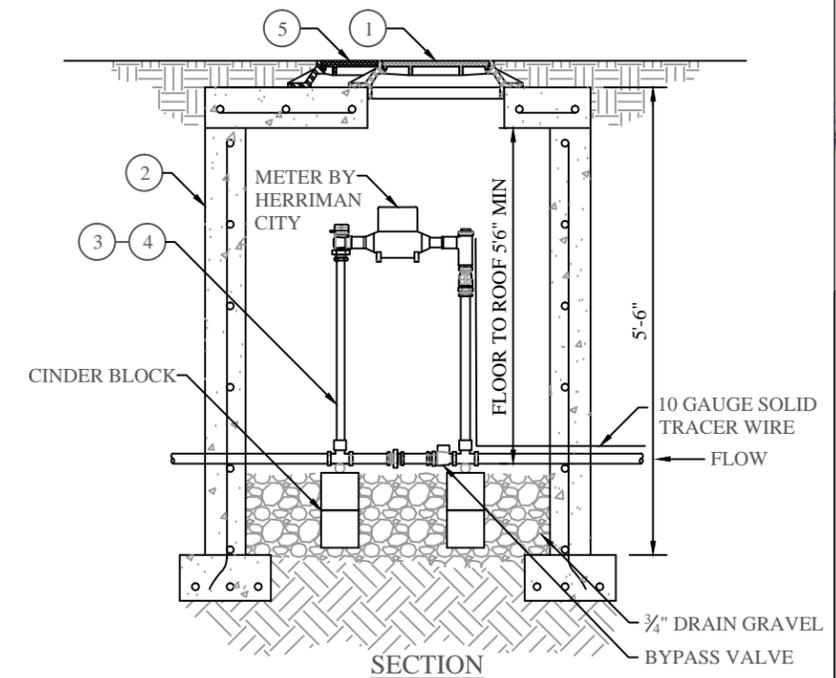
- INSPECTION:** PRIOR TO BACKFILLING AROUND THE METER BOX, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
- BACKFILLING:** INSTALL ALL BACKFILL MATERIAL PER APWA SECTION 310520 IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO A MIN. RELATIVE DENSITY OF 95%.
- METER:** HERRIMAN CITY WILL PROVIDE AND INSTALL METER.
- PIPE:** INSTALL IPS POLY PIPE TO PROPERTY LINE. COORDINATE WITH UTILITY AGENCY FOR TYPE OF PIPE TO BE USED OUTSIDE IF RIGHT- OF- WAY.
- PLACEMENT:**  
 A) DO NOT INSTALL METER BOX UNDER DRIVEWAY APPROACHES, SIDEWALKS, OR CURB AND GUTTER.  
 B) IN NEW CONSTRUCTION, INSTALL METER NEAR CENTER OF LOT IN PARKSTRIP.

**NOTES:**

- ALL FITTINGS SHALL BE COMPRESSION FITTINGS WITH INSERTS.
- RAISE TO GRADE; USE GRADE-RINGS WHERE NEEDED.

LEGEND		
NO.	ITEM	DESCRIPTION
(A)	GATE VALVE	2"
(B)	BRASS NIPPLE	BRASS NIPPLE
(C)	1 1/2" OR 2" CORPORATION STOP	
(D)	SERVICE SADDLE CLAMP	FORD-FB 202B OR MUELLER BR2B SERIES (D.I., P.V.C.) *
(E)	WATER MAIN PIPE	
(F)	TRACER WIRE	
(G)	THRUST BLOCK	

- \* DI PIPE MAY BE DIRECT TAPPED
- \* IF DIRECT TAP USE CC THREADS



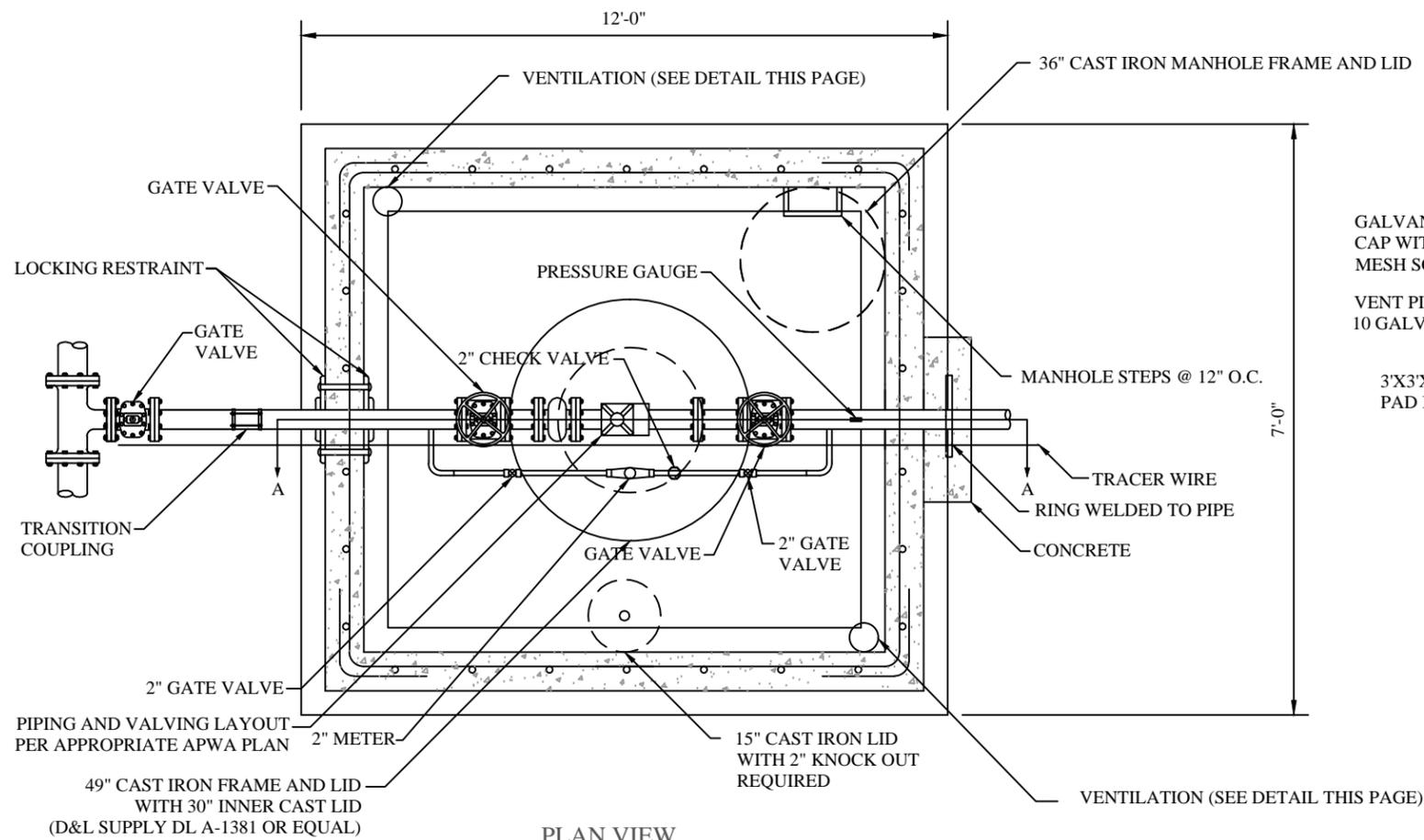
LEGEND		
NO.	ITEM	DESCRIPTION
1	30" FRAME AND COVER	APWA PLAN NO. 502
2	CONCRETE BOX	APWA PLAN NO. 505
3	1 1/2" CUSTOM SETTER WITH BYPASS	VBHH76-18B-11-66
4	2" CUSTOM SETTER WITH BYPASS	VBHH77-18B-11-77
5	21" FRAME & COVER W/ 2" K.O.	SEE CW-01(A)

NO.	DATE	DRAWN BY	REVISIONS	REMARKS

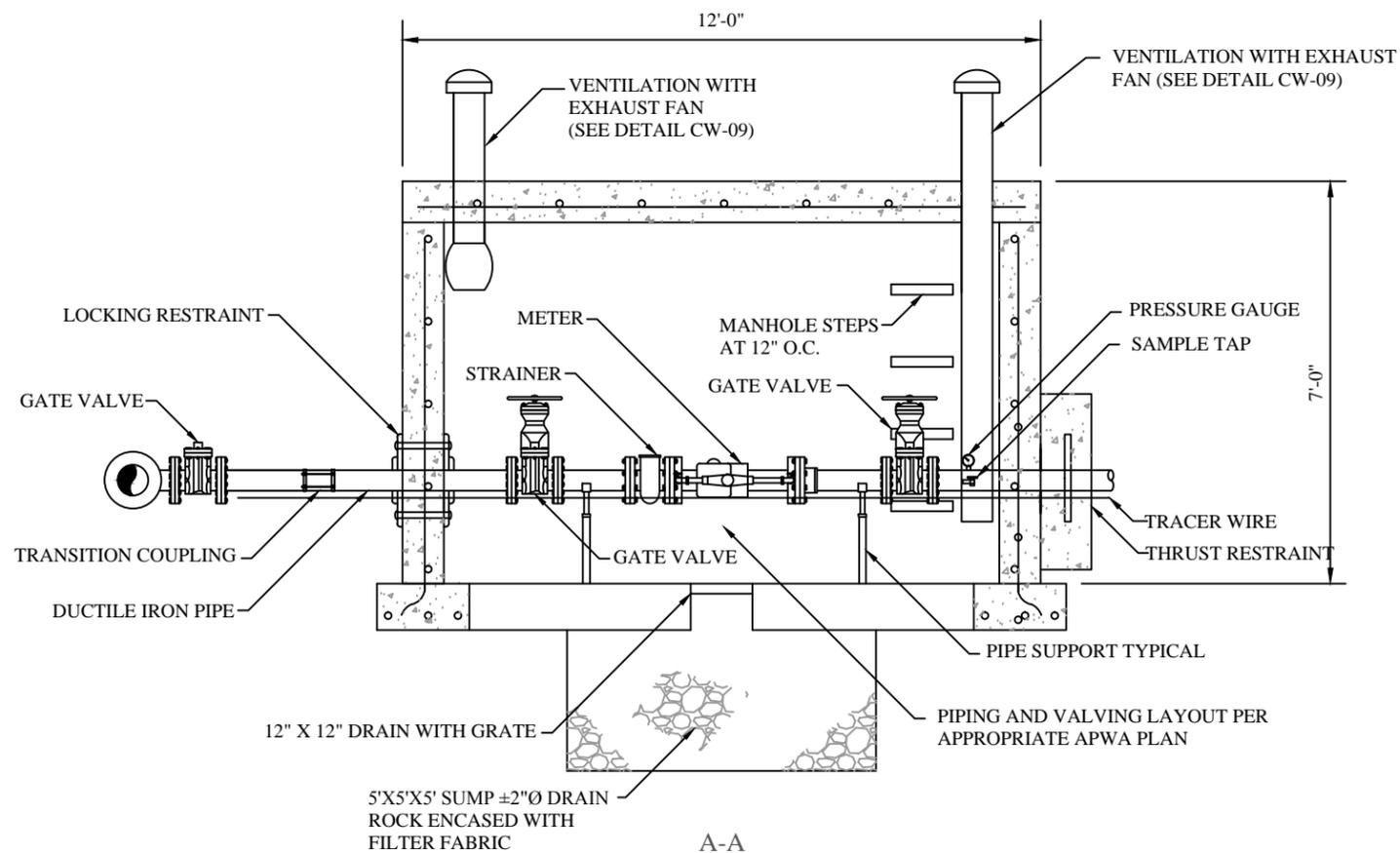
**Herriman**  
 Founded 1851  
 13011 S. Pioneer St. • Herriman, UT 84096

SHEET NAME: **1 1/2" AND 2" METER**

CITY ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

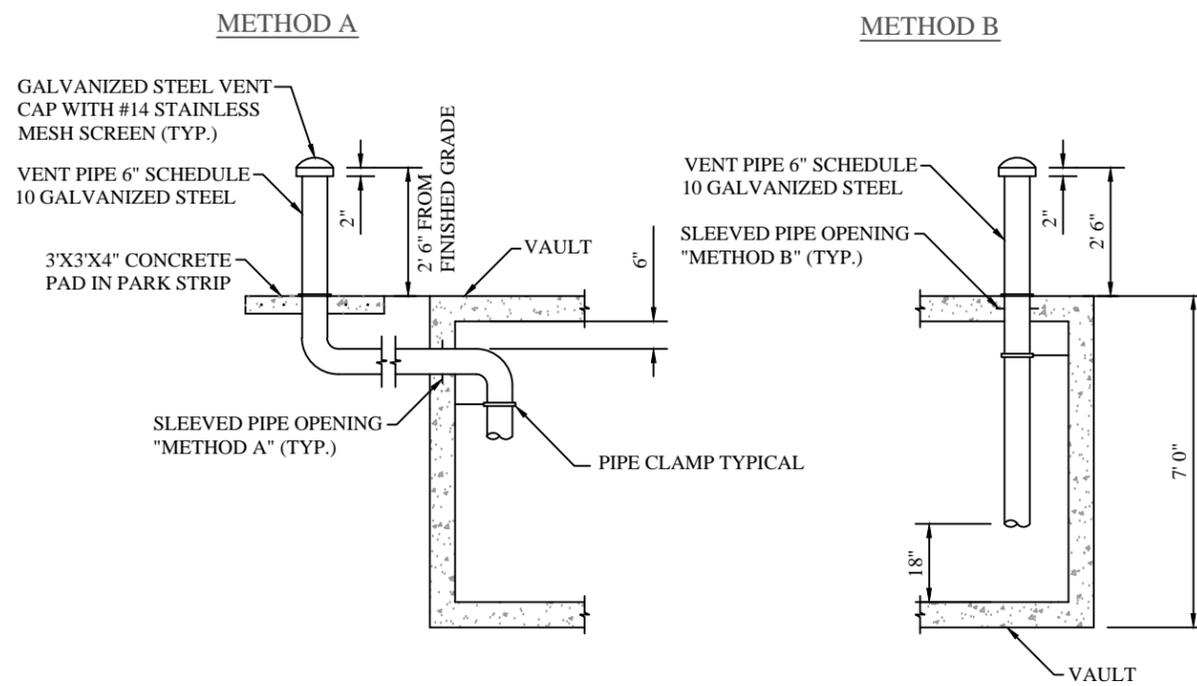


PLAN VIEW



A-A

MUSHROOM CAP DETAIL



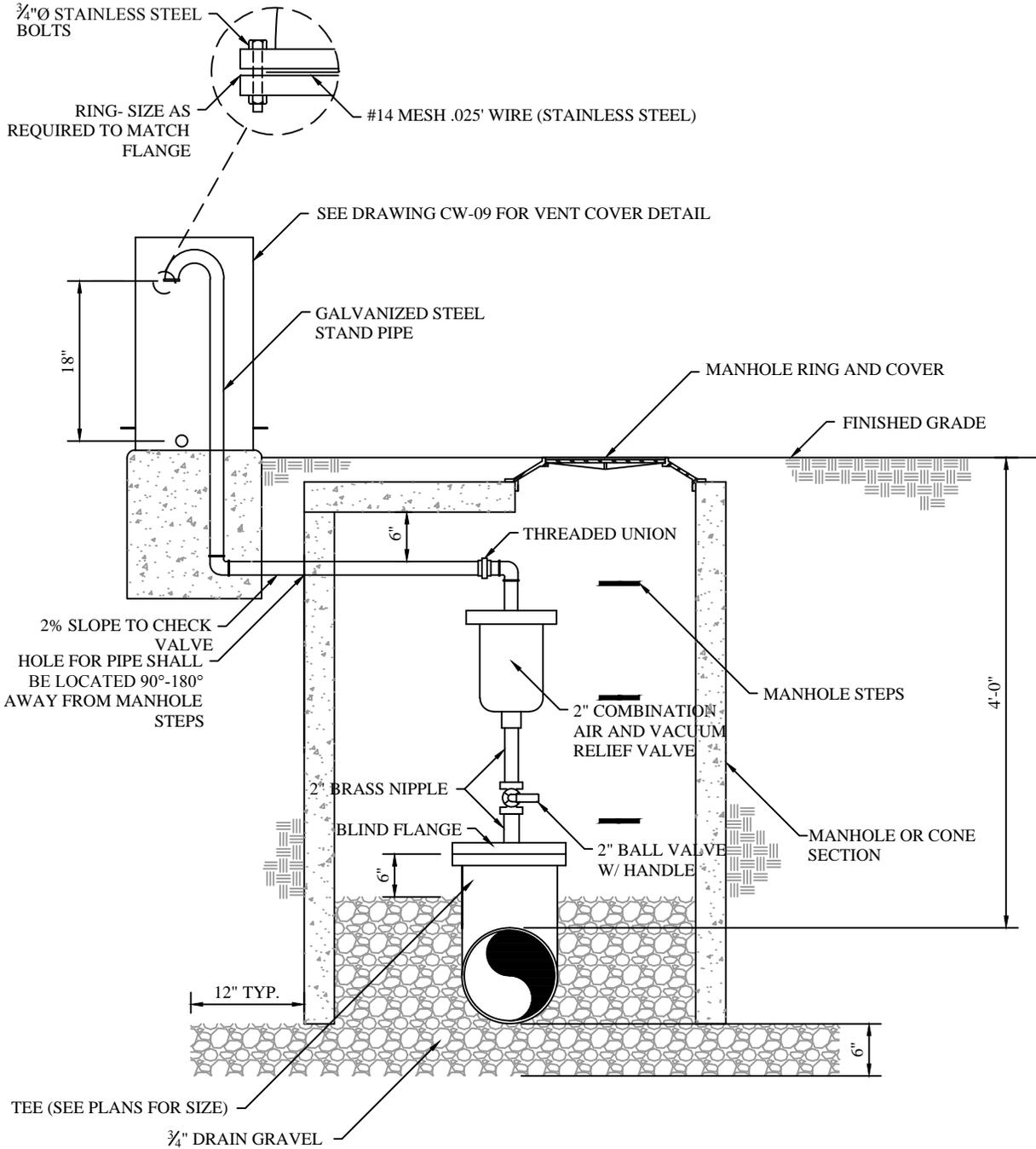
NOTES:

- METER VAULTS SHALL MEET HERRIMAN CITY STANDARDS 4.10.19
- ALL 3" AND LARGER METER VAULTS SHALL BE CONSTRUCTED WITH A 2" BY-PASS LINE. THE BY-PASS LINE SHALL HAVE A 2" NEPTUNE T-10 MODEL METER, (2) ISOLATION VALVES, AND A FLANGE COUPLING ADAPTER BETWEEN VALVES.
- ALL METER VALVES SUPPLYING FIRE PROTECTION BEYOND THE METER SHALL BE EQUIPPED WITH A HP NEPTUNE PROTECTUS III FIRE SERVICE METER OF THE APPROPRIATE SIZE.
- ALL METER VAULTS NOT SUPPLYING FIRE PROTECTION BEYOND THE METER MAY BE EQUIPPED WITH A NEPTUNE TRU/ FLOW COMPOUND METER AND STRAINER OF THE APPROPRIATE SIZE.
- THE PIPING AND VALVING LAYOUTS SHALL FOLLOW THOSE FOUND IN THE APWA MANUAL PLAN NO. 523, 525, 527, AND 529. HOWEVER THE HERRIMAN CITY ENGINEER WILL GIVE FINAL APPROVAL OF DESIGN.
- PIPE SUPPORTS SHALL BE SPACED SUCH THAT THE MAXIMUM SPAN BETWEEN SUPPORTS AND THE WALL IS 6'-0". THE SUPPORTS SHALL BE A PIPE STANCHION SADDLE MSS TYPE 37 GRINNEL FIGURE 264 OR APPROVED EQUAL.
- RESTRAINTS SHALL BE EITHER A LOCKING RESTRAINT OR A THRUST RESTRAINT.
- 3" METERS AND LARGER SHALL BE PURCHASED AND INSTALLED BY THE DEVELOPER OR CONTRACTOR AND THE CITY WILL INSPECT.
- VAULT AND LID- VAULT APWA NO. 505 STANDARD (REBAR)  
RATED- PEDESTRIAN H:10  
TRAFFIC H:20
- PAINT ALL BLACK DIP PIPE EPOXY COATED SAFETY BLUE.
- PAINT ALL VALVES EPOXY COATED SAFETY RED.

NO.	DATE	DRAWN BY	REMARKS

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 Founded 1851  
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TYPICAL METER VAULT	DATE
SHEET NAME	CITY ENGINEER



**NOTES:**

1. VENT SHALL BE LOCATED IN PARK STRIP OR CITY PROPERTY.
2. SCHEDULE 80 PVC PIPE OR GALVANIZED STEEL MAY BE USED BETWEEN AIR/ VAC VALVE AND THE STAND PIPE.

REVISIONS		REMARKS
NO.	DATE	DRAWN BY

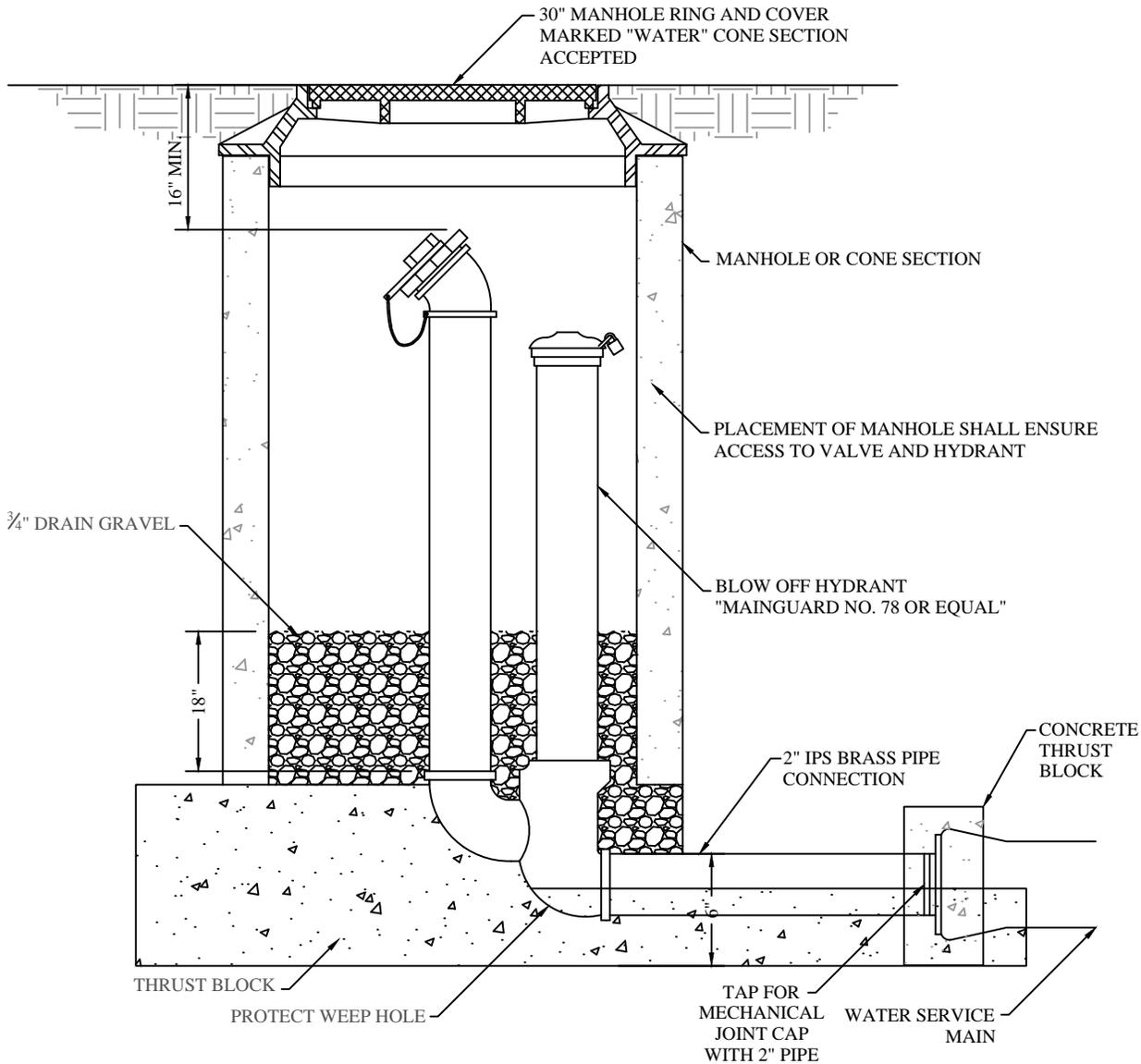

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2" AIR/ VACUUM COMBINATION

CITY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

SHEET NAME

SHEET  
**CW-13**



NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND THE ASSEMBLY, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT BACKFILL MATERIAL PER APWA SECTION 31 05 20
3. CONCRETE: CLASS 4,000 PER APWA SECTION 03 30 04, APPLY A SEALING/ CURING COMPOUND PER APWA SECTION 03 39 00.
4. WORKING PARTS: ALL WORKING PARTS SHALL BE BRONZE TO BRONZE DESIGN, AND BE SERVICEABLE FROM ABOVE GROUND WITH NO DIGGING.
5. POST HYDRANTS SHALL BE NON- FREEZING, SELF DRAINING TYPE WITH A 36" BURY. HYDRANTS WILL BE FURNISHED WITH A 2" FIP INLET, A NON- TURNING OPERATING ROD, AND SHALL OPEN TO THE LEFT.
6. LOCKING: HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE AS MANUFACTURED BY KUPFERLE FOUNDRY CO., ST. LOUIS, MO., OR APPROVED EQUAL.
7. MUST BE INSTALLED IN ROAD, NOT PARKSTRIP.

REVISIONS		REMARKS
NO.	DATE	DRAWN BY


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**BLOW OFF HYDRANT**

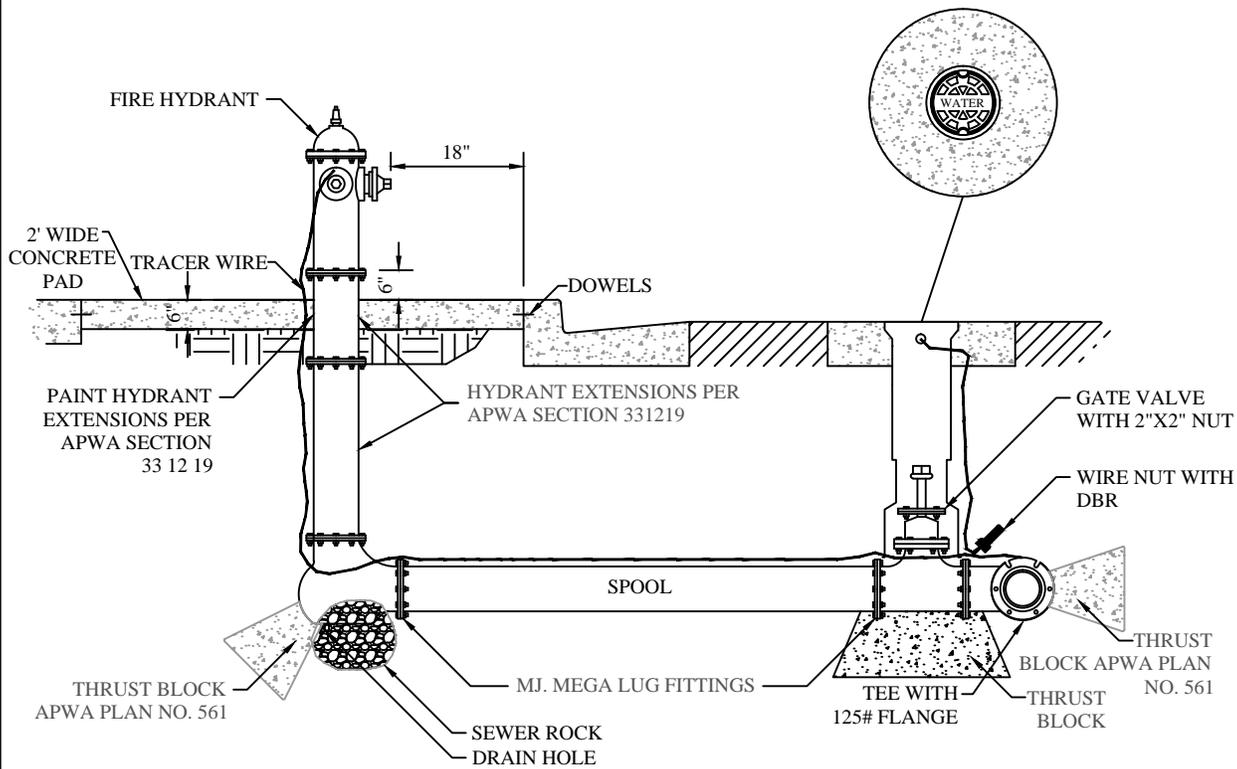
DATE \_\_\_\_\_

CITY ENGINEER \_\_\_\_\_

SHEET NAME

SHEET

**CW-14**



NOTE:

1. POLY WRAP HYDRANT TO BURY LINE.
2. DOWELS 6" CENTER OFF BACK OF SIDEWALK AND BACK OF CURB.

REVISIONS		REMARKS
NO.	DATE	DRAWN BY

  
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FIRE HYDRANT WITH VALVE

DATE \_\_\_\_\_

CITY ENGINEER \_\_\_\_\_

SHEET NAME

SHEET

**CW-15**