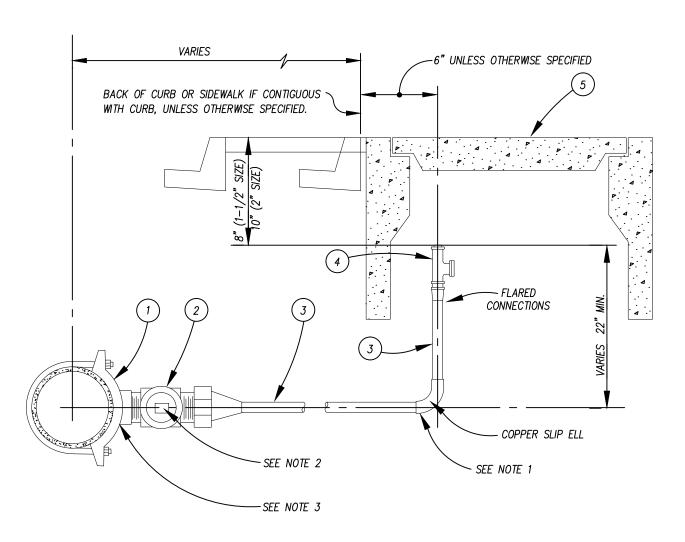


- 1. INSTALL CORPORATION STOP PERPENDICULAR TO PIPE AXIS.
 2. COPPER SERVICE SHALL BE NO MORE THAN 3" ABOVE THE MAIN.
 3. ALL SOLDER TO BE SILVER SOLDER.
- 4. STAMP "W" FOR DOMESTIC ON CURB FACE OPPOSITE METER AND "I" FOR RECLAIMED.

ITEM	NO.	DESCRIPTION	SPECS
1	1	CONC. METER BOX	
2	1	BRONZE ANGLE METER STOP W/ LOCKWING	SEE CITY
3	1	COPPER WATER SERVICE TUBE—TYPE K, SOFT ANNEALED	APPROVED
4	1	BRONZE CORP STOP WITH TAIL PIECE	MATERIALS LIST
5	1	BRONZE SERVICE CLAMP, SINGLE FLAT STRAP (A.C. OR P.V.C.)	
6		USE ALL FLARE CONNECTIONS	

REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED	2/0/-
				1" WATER	CITY ENGINEER R.C.E. 41975	<u>3//8//3</u> DATE
				SERVICE ASSEMBLIES	DRAWING P NUMBER	°W-1



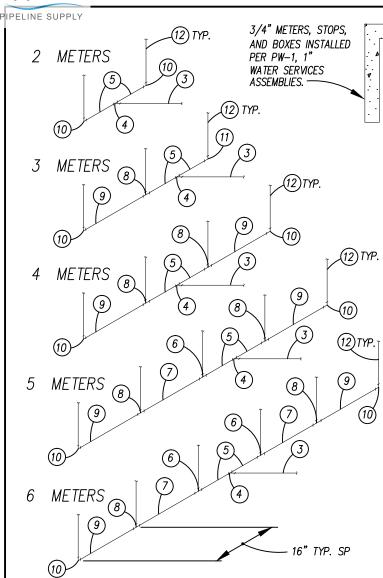


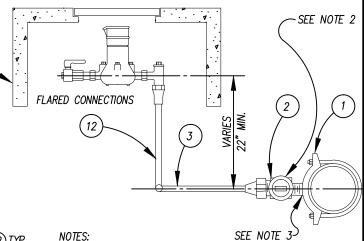
- 1. SILVER SOLDER REQUIRED.
- 2. INSTALL CORP STOP PERPENDICULAR TO PIPE AXIS.
 3. STAMP "W" FOR DOMESTIC SERVICE ON CURB FACE OPPOSITE METER, "I" FOR RECLAIMED.
- 4. IF SERVICE IS FOR RESIDENTIAL THEN AMS WILL BE 8"-10" ON BOTH $1\frac{1}{2}$ " OR 2".

ITEM	NO.	DESCRIPTION	SPECS
1	1	DOUBLE STRAP BRONZE SERVICE CLAMP	
2	1	CORP. STOP WITH TAIL PIECE	SEE CITY
3	1	COPPER WATER SERVICE TUBE—TYPE K, SOFT ANNEALED	APPROVED
4	1	BRONZE ANGLE METER STOP W/ LOCKWING	MATERIALS LIST
5	1	CONCRETE METER BOX	

REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED
				1 1/2" AND 2" WATER	CITY ENGINEER R.C.E. 41975
				SERVICE ASSEMBLIES	DRAWING PW-2.1







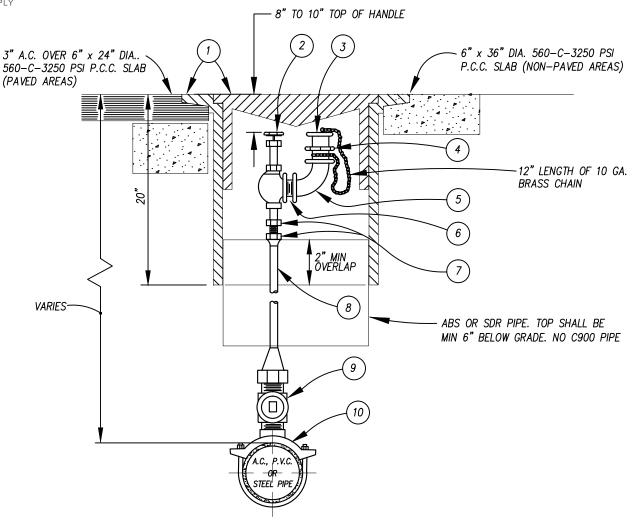
- 1. SILVER SOLDER REQUIRED.
- 2. INSTALL CORP. STOP PERPENDICULAR TO PIPE AXIS.
- 3. APPROVED BY PUBLIC WORKS ONLY

ITEM	9	SIZE FITTING	/ NO. OF	METERS	
	2 METERS	3 METERS	4 METERS	5 METERS	6 METERS
1	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
2	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
3	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
4	3/4"x3/4"x1"	1"x1"x1 1/2"	1"x1"x1 1/2"	1 1/2"	1 1/2"
5	3/4"x6"	1"x6"	1"x5 1/2"	1 1/2"x5"	1 1/2"x5"
6				1 1/2"x1"x3/4"	1 1/2"x1"x3/4"
7				1"x14"	1"x14"
8		1"x3/4"x3/4"	1"x3/4"x3/4"	1"x3/4"x3/4"	1"x3/4"x3/4"
9		3/4"x14"	3/4"x14"	3/4"x14"	3/4"x14"
10	3/4"	3/4"	3/4"	3/4"	3/4"
11	_	1"x3/4"			
12	3/4"	3/4"	3/4"	3/4"	3/4"

ITEM	NO.	DESCRIPTION	SPECS
1	1	DOUBLE STRAP BRONZE SERVICE CLAMP	
2	1	CORP. STOP WITH TAIL PIECE	
3	1	COPPER WATER SERVICE, TYPE K, SOFT (ANNEALED)	
4	1	SILVER SOLDER JOINT TEE	
5	2	COPPER WATER SERVICE TUBE, TYPE K, SOFT (ANNEALED)	SEE CITY
6	VARIES	SILVER SOLDER JOINT RED. TEE	APPROVED
7	VARIES	COPPER WATER SERVICE TUBE, TYPE K, SOFT (ANNEALED)	MATERIALS LIST
8	VARIES	SILVER SOLDER JOINT RED. TEE	
9	VARIES	COPPER WATER SERVICE TUBE, TYPE K, SOFT (ANNEALED)	
10	1 OR 2	SILVER SOLDER JOINT BEND	
11	0 OR 1	SILVER SOLDER JOINT RED. BEND	
12	1/MTR	COPPER WATER SERVICE TUBE RISER, TYPE K, SOFT (ANNEALED)	

REVISION	BY	APPROVED		CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13			3/18/13
				MULTIPLE	CITY ENGINEER R.C.E. 41975	DATE
				WATER SERVICE ASSEMBLY	DRAWING NUMBER	PW-2.3



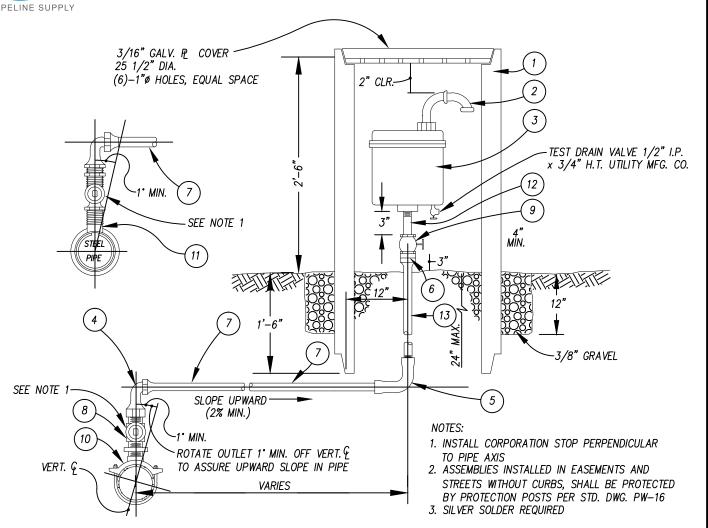


1. INSTALL CORPORATION STOP PERPENDICULAR TO PIPE AXIS.

ITEM	NO.	DESCRIPTION	SPECS
1	1	12" C.I. VALVE BOX AND COVER MARKED "POWAY WATER"	
2	1	1" BRZ. ANGLE VALVE W/ BRZ. HANDWHEEL & COMP. DISC	
3	1	1 1/2" HOSE THREAD CAP W/ CHAIN LUG.	
4	1	1 1/2" MALE HOSE NIPPLE	SEE CITY
5	1	1 1/2" x 1" 90° REDUCING ELBOW	APPROVED
6	1	1" CLOSE NIPPLE	MATERIALS LIST
7	1	1" BRONZE COUPLING (FLARE & MALE NPT)	
8	1	1" COPPER WATER SERVICE TUBE, TYPE K, (SOFT ANNEALED)	
9	1	1" CORP. STOP WITH TAIL PIECE	
10	1	DOUBLE STRAP BRONZE SERVICE CLAMP	

REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED 3/10/13	
				MANUAL AIR	CITY ENGINEER R.C.E. 41975 DATE	
				RELEASE ASSEMBLY	DRAWING PW-3 NUMBER	

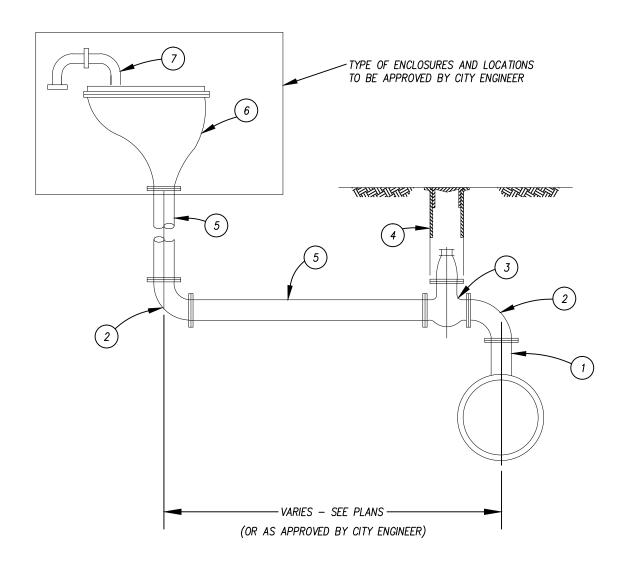




ITEM	DESCRIPTION
1	24" I.D. x 4' REINFORCED CONCRETE PIPE
2	90° STREET ELLS
3	COMBINATION AIR RELEASE AND AIR VACUUM VALVE
4	90° FLARE X FEMALE NPT ADAPTER
5	90° ELL, SLIP
6	FLARE x FEMALE NPT ADAPTER
7	COPPER TUBING
8	BRONZE CORP STOP AND 1/4 BEND
9	BRONZE GATE VALVE
10	BRONZE DOUBLE STRAP SERVICE STRAP
11	APPROPRIATE CLAMP (PVC OR AC)
12	BRASS PIPE NIPPLE
13	FLARE X MIP ADAPTER

		APPROVED		CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13			3/18/13
				AIR & VACUUM VALVE	CITÝ ENGINEER R.C.E. 41975	DATE
				ASSEMBLY	DRAWING	PW-4
				, , , , , , , , , , , , , , , , , , , ,	NUMBER	1 44-4





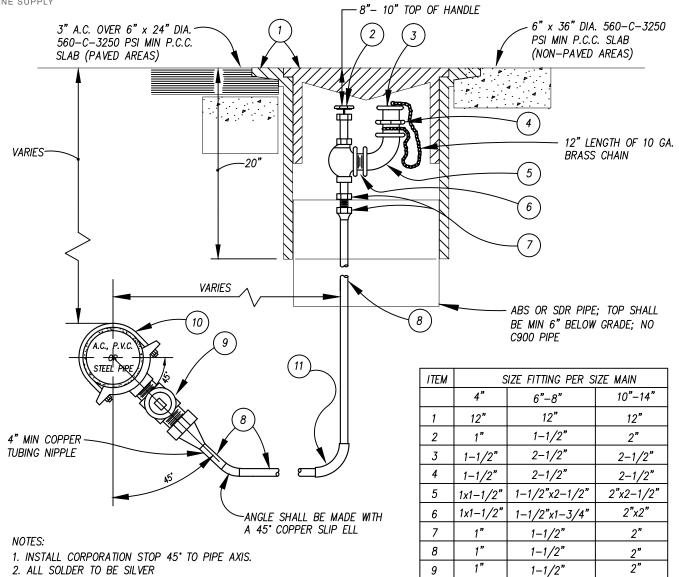
- 1) FLANGED OUTLET, CEMENT LINED AND COATED STEEL
- (2) FLANGED, 90° ELL, CEMENT LINED AND COATED STEEL
- 3 VALVE
- (4) VALVE WELL AND CAP (PER PW-12)
- 5) STEEL PIPE, CEMENT LINED AND COATED
- (6) AIR AND VACUUM VALVE

(7) 2-90° ELLS (NOT REQUIRED WITH ABOVE GROUND METAL ENCLOSURES)

LEGEND ON PLANS

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITT OF POWAT STANDARD DRAWING	11	3/18/13
					CITY ENGINEER R.C.E. 41975	DATE
				4" AND 6" AIR AND VACUUM VALVES	DRAWING	
					NUMBER	PW-5



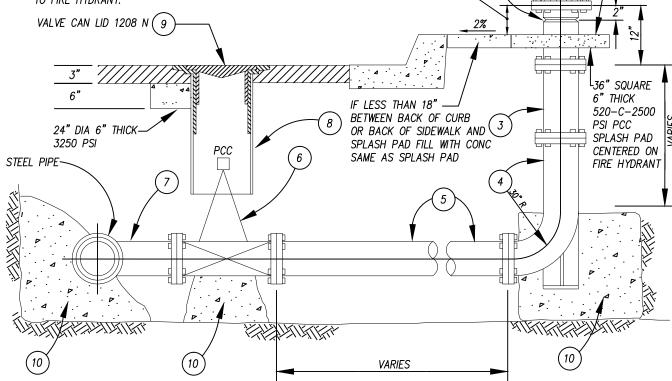


ITEM	NO.	DESCRIPTION	SPECS
1	1	12" C.I. VALVE BOX AND COVER MARKED "POWAY WATER"	
2	1	BRZ. ANGLE VALVE W/ BRZ. HANDWHEEL & COMP. DISC	
3	1	HOSE THREAD CAP W/ CHAIN LUG.	
4	1	MALE HOSE NIPPLE	SEE CITY
5	1	90° REDUCING ELBOW	APPROVED
6	1	CLOSE NIPPLE	MATERIALS LIST
7	1	1" BRONZE COUPLING (FLARE & MALE NPT)	
8	1	COPPER WATER SERVICE TUBE TYPE K, (SOFT ANNEALED)	
9	1	CORP. STOP WITH TAIL PIECE	
10	1	DOUBLE STRAP BRONZE SERVICE CLAMP (A.C. PIPE)	
11	1	MIN. R=12 X (I.D.) ² OR COPPER SLIP ELL	

REVISION B	3Y	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN MI	WR	S. CROSBY	03/13	0111 01 1 0 1/1/1 0 1/1/10/1/10 01/1/1/10		3/18/12
				BLOW-OFF ASSEMBLY	CITY ENGINEER R.C.E. 41975	DATE
				14" DIA AND SMALLER	DRAWING NUMBER	PW-6



- 1. FIRE HYDRANTS LOCATED IN EASEMENTS OR ON STREETS WITHOUT CURBS SHALL BE PROTECTED WITH GUARD POSTS PER STD. DWG PW-16.1. POSITION POSTS 2' IN FRONT AND 2.5' ON EACH SIDE OF HYDRANT.
- 2. ALL FLANGES SHALL BE 250 P.S.I.
- 3. ALL BOLTS SHALL BE STAINLESS STEEL.
- 4. LOCATE FIRE HYDRANT PER STD. DWG. PW-11.
- 5. VALVE NUT DEEPER THAN 60" SHALL HAVE EXTENSION PER APPROVED MATERIALS
- 6. BREAK-OFF BOLTS NOT ALLOWED
- 7. INSTALL BLUE RPM 6" FROM CENTERLINE OF ROAD ADJACENT TO FIRE HYDRANT.



2

4" MIN.

8" MAX.

1/4" PER FOOT

RISE FROM TOP

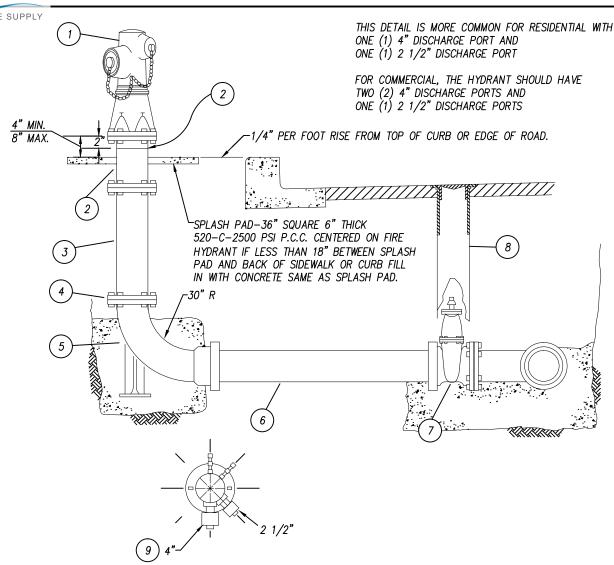
OF CURB OR

EDGE OF ROAD

ITEM	NO.	DESCRIPTION	REMARKS
1	1	6" FIRE HYDRANT	PER POWAY'S APPROVED MATERIALS LIST
2	1	HYDRANT RISER — BREAK-OFF SPOOL W/ CHECK VALVE	SCORED (NOT MOLDED), CEMENT LINED
3	1	HYDRANT SPOOL 6" CAST IRON	LENGTH AS REQUIRED — CEMENT LINED
4	1	6" HYDRANT BURY ELL	FLANGED BY FLANGE — CEMENT LINED
5	1	6–5/8" O.D. STEEL PIPE, 10 GA. W/ SLIP–ON FLANGES	CEMENT LINED AND COATED
6	1	6" GATE VALVE – FLANGE BY FLANGE	PER POWAY'S APPROVED MATERIALS LIST
7	1	6" FLANGED OUTLET	CEMENT LINED AND COATED
8	1	PIPE SLIP JOINT, SDR-35 PVC, VALVE BOX ASSEMBLY	SEE STD. DWG PW-12
9	1	8" C.I. VALVE BOX AND COVER MARKED "POWAY WATER"	SEE STD. DWG PW-12
10	3	PCC THRUST BLOCKS 2000 PSI	SEE STD. DWG PW-17.1 & 17.2 FOR BEARING AREA

REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED	a / · / ·
				CLASS 300 INSTALLATION	CITY ENGINEER R.C.E. 41975	
				FIRE HYDRANT ASSEMBLY	DRAWING NUMBER	PW-8





CURB FACE

- 1) FIRE HYDRANT
- 2 12" LONG BREAK-OFF SPOOL W/ CHECK VALVE
- (3) 6" EXTENSION SPOOL
- 4) 3/4"x 3" HEX. HEAD MACHINE BOLTS AND NUTS, TYPICAL ALL BOLTS AND NUTS TO BE STAINLESS STEEL (MARKED 316)

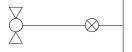
PLAN VIEW

- (5) 6" HYDRANT ELL SHORT RADIUS 6" x 30"(LENGTH)
- 6" STEEL OR PVC PIPE
- 7) 6" VALVE
- (8) VALVE WELL INSTALLATION (SEE PW-12)
- $ig(\ 9 ig)$ 4" PORT TO FACE HYDRANT VALVE OR PER FIRE DEPT

NOTES:

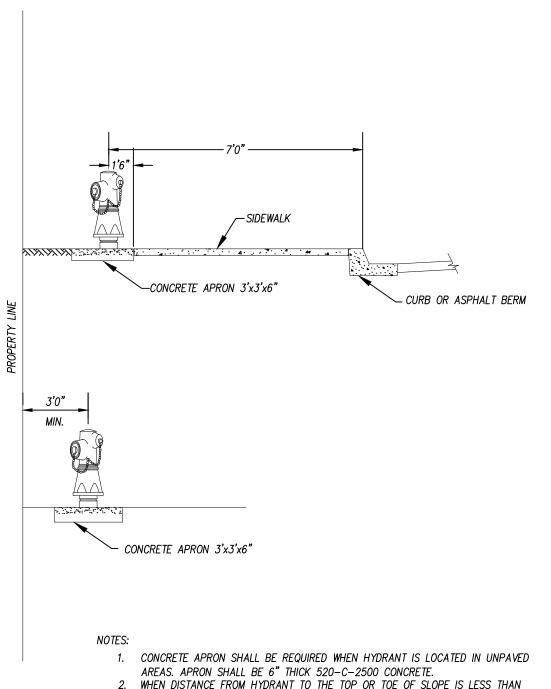
- 1. ITEMS 2, 3 & 6 MAY BE CEMENT LINED AND COATED FLANGED STEEL PIPE WHERE PERMITTED BY AGENCY
- 2. VALVE NUT DEEPER THAN 60" SHALL HAVE EXTENSION PER APPROVED MATERIALS
- 3. BREAK-OFF BOLTS NOT ALLOWED
- 4. INSTALL BLUE RPM 6" FROM CENTERLINE OF ROAD ADJACENT TO FIRE HYDRANT

LEGEND ON PLANS



REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITT OF POWAT STANDARD DRAWING	///	3/18/13
					CITY ENGINEER R.C.E. 41975	DATE
				6" FIRE HYDRANT	DRAWING	PW_10
					NUMBER	PW-10

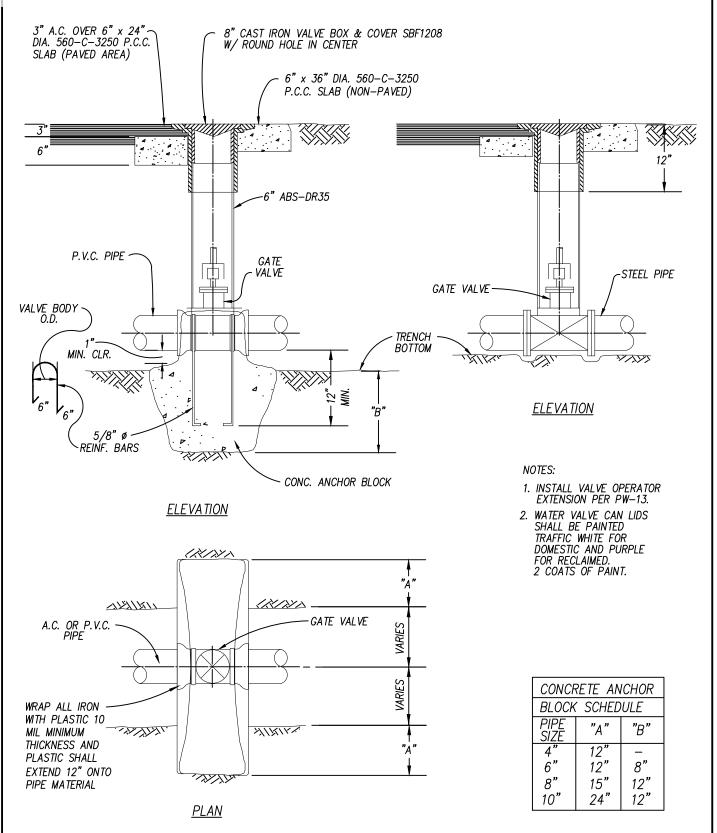




- 2. WHEN DISTANCE FROM HYDRANT TO THE TOP OR TOE OF SLOPE IS LESS THAN 2'0" SPECIAL HYDRANT INSTALLATION WILL BE REQUIRED BY AGENCY.
- 3. WHERE HYDRANT IS NOT PROTECTED BY A VERTICAL FACE OF CURB, PROTECTION POSTS ARE REQUIRED. SEE STANDARD DRAWING PW-16.1 FOR DETAILS.
- 4. THE CENTERLINE OF THE HYDRANT SHALL BE LOCATED 5' MINIMUM FROM CURB RETURN AND MINIMUM 3'6" FROM DRIVEWAY OR ANY FIXED OBSTRUCTION.
- 5. INSTALL BLUE RPM 6" FROM CENTERLINE OF ROAD ADJACENT TO FIRE HYDRANT.

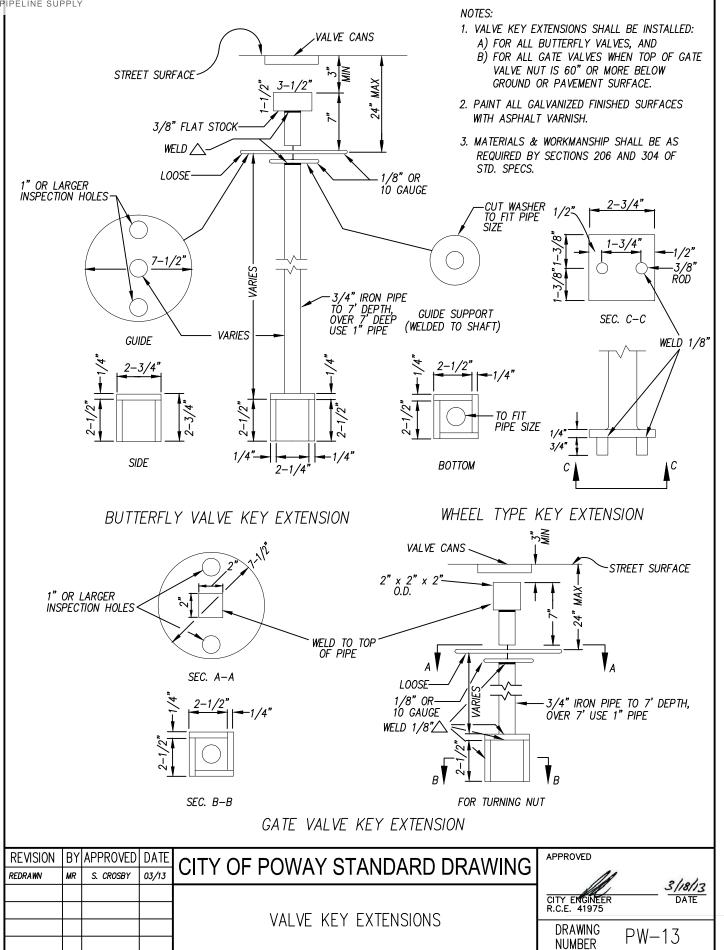
REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING		40/12
				FIRE HYDRANT LOCATIONS		/18/13 DATE
				FIRE HIDRANT LOCATIONS	DRAWING PW-11	



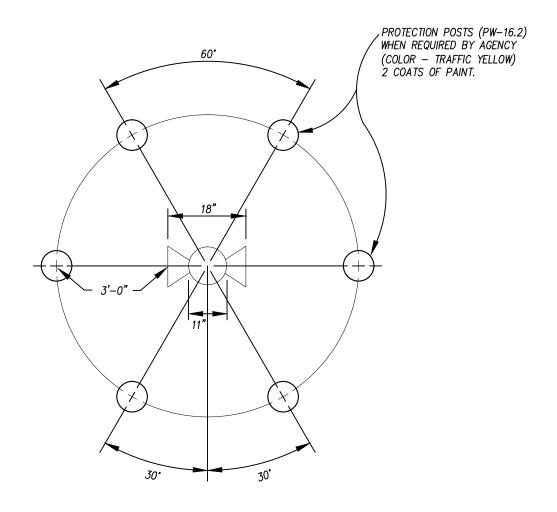


REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED	
				GATE VALVE, FLANGE OUTLET	CITY ENGINEER R.C.E. 41975	3 <u>//8//3</u> DATE
				AND CAP ASSEMBLIES	DRAWING P	W-12





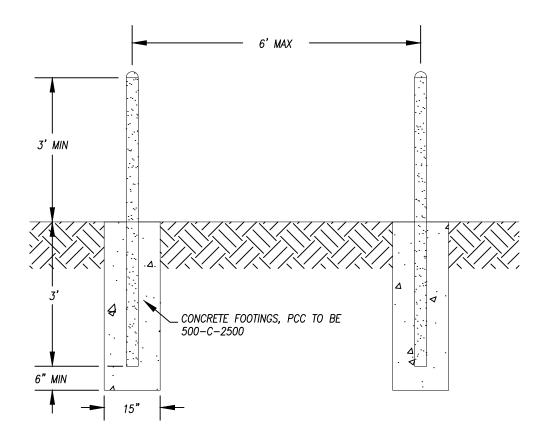




NOTE: NUMBER OF POSTS TO BE DETERMINED BY ENGINEER

REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED 34.04
				FIRE HYDRANT	CITY ENGINEER DATE
				PROTECTION POSTS	DRAWING PW-16.1

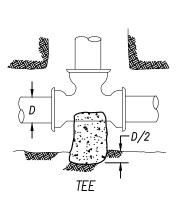


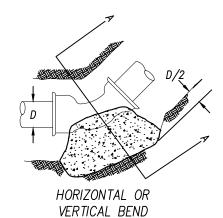


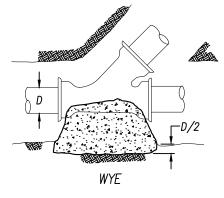
- 1. POSTS SHALL BE PAINTED TRAFFIC YELLOW.
- 2. PROTECTION POSTS ARE REQUIRED FOR ALL FIRE HYDRANTS, FDCs, PIVs, AND ABOVE GROUND STORAGE TANKS LOCATED LESS THAN 4' FROM A CURB.
- 3. POSTS SHALL BE LOCATED NOT LESS THAN 3' FROM ABOVE GROUND STORAGE TANKS.
- 4. POSTS SHALL BE LOCATED NOT LESS THAN 2' FROM FDCs AND PIVs.
- 5. POSTS SHALL BE CONSTRUCTED OF CONCRETE FILLED SCHEDULE 40 STEEL, ±4" IN DIAMETER, WITH CONCRETE CAP. CONCRETE SHALL BE CLASS 500-C-2500.

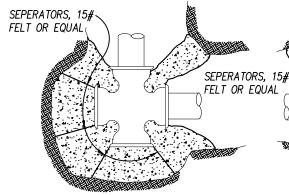
REVISION	BY	APPROVED			APPROVED	
DELETE NOTE	DS	FDC	9/7/07	OTT OF TOWAT OTANDARD DRAWING		2/10/10
REDRAWN	MR	S. CROSBY	03/13	FIDE LIVED ANT DESCRETION	CITY ENGINEER	
				FIRE HYDRANT PROTECTION	R.C.E. 41975	52
				POST DETAIL	DRAWING	PW-16 2
				1 001 BE1711E	NUMBER	PW-10.2

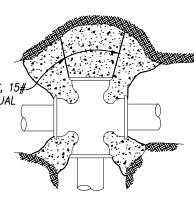


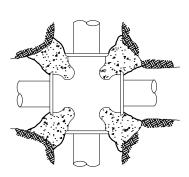




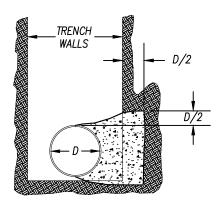








CROSS BLOCKING

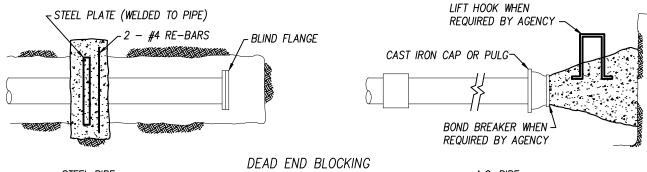


SECTION A-A

- 1. CONCRETE SHALL BE 450C-2000 OR 565E-2000P.
- 2. SEE STANDARD DRAWING W-18 FOR BEARING AREAS.
- 3. BOND BREAKER IS REQUIRED ON DEAD END BLOCKING AND SHALL BE #15 BUILDING FELT.
- 4. TAPPED CAPS ARE NOT ALLOWED.
- 5. A MINIMUM OF 6" OF CONCRETE SHALL BE PLACED BENEATH EACH FITTING. 6. ALL IRON IS TO BE WRAPPED IN PLASTIC SHEETING MINIMUM 10 MILS THICK

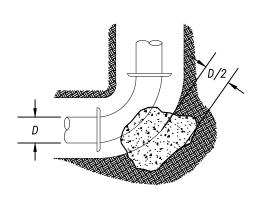
REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED
REDRAWN	MR	S. CROSBY	03/13	CITE OF LOWAL STANDARD DIVAVIING	3/18/13
					CITY ENGINEER DATE
				CONCRETE THRUST BLOCKS	R.C.E. 41975
				CONCRETE THRUST BLOCKS	DRAWING PW-171
					NUMBER F W-17.1



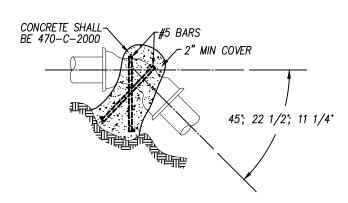


STEEL PIPE PLAN

A.C. PIPE ELEVATION



90° BEND



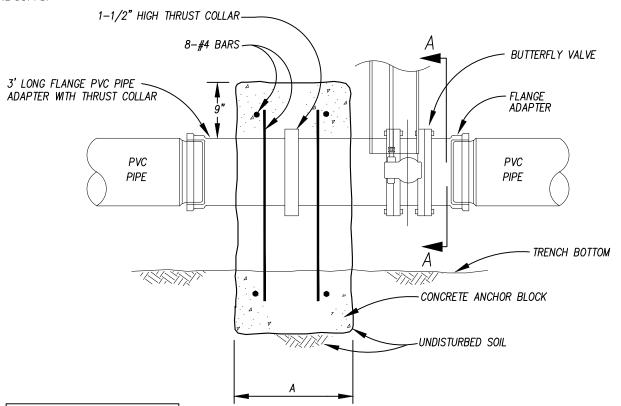
ANCHOR BLOCK (VERTICAL BEND ONLY)

- 1. CONCRETE THRUST BLOCKING SHALL NOT COVER UNDERGROUND SWING CHECK VALVE INSPECTION PORT.
- 2. INDICATE PIPE TYPE, SIZE, AND DIAMETER.
- THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH SDRSD W-17 & W-18 AND THE CITY OF POWAY SPECIFICATIONS.
- 4. ALL BOLTS AND NUTS TO BE STAINLESS STEEL (316).
- 5. ALL UNDERGROUND FITTINGS TO BE WRAPPED IN 10 MIL PLASTIC. PLASTIC SHALL EXTEND 12" ONTO PIPE MATERIAL
- 6. ALL MATERIALS SHALL BE FM/UL LISTED AND SHALL BE APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION.
- ANCHOR BLOCK CITY OF POWAY APPROVED JOINT RESTRAINT ASSEMBLY REQUIRED.
- A. INCREASE VOLUMES SHOWN IN PROPORTION TO PRESSURES EXISTING WHEN PRESSURE TESTING PIPELINE.
- B. SPECIAL DESIGN REQUIRED.

ANCHOR BLOCK											
PIPE NOMINAL DIA	REQUIRED	CUBIC FT OF CONCRETE REQUIRED PER 100PSI PRESSURE (SEE NOTE 7A)									
DIA	45°	22 1/2°	11 1/4°								
4	7	4	2								
6	15	8	4								
8	27	14	7								
10	SEE 7B	21	11								
12	SEE 7B	SEE 7B	16								

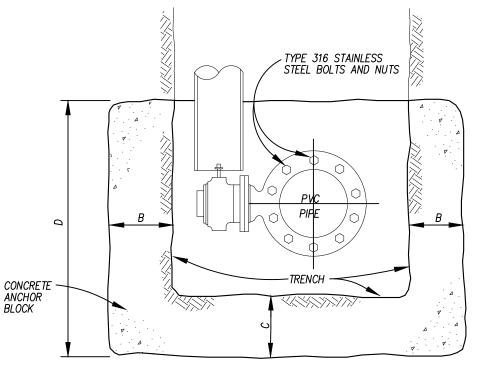
REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITT OF FOWAT STANDARD DRAWING		2/10/12
				CONCRETE THRUST BLOCKS	CITY ENGINEER	DATE
				CONCRETE THRUST BLUCKS	R.C.E. 41975	
				AND ANCHOR BLOCKS	DRAWING PW-	-17 2
					NUMBER ' ' ' '	17.2





CO	CONCRETE ANCHOR BLOCK SCHEDULE								
PIPE		CL	150						
SIZE	Α	В	С	D					
12"	21"	26"	12"	36"					
14"	24"	<i>30</i> "	15"	45"					
16"	24"	<i>36</i> "	15"	48"					
18"	24"	45"	18"	51"					

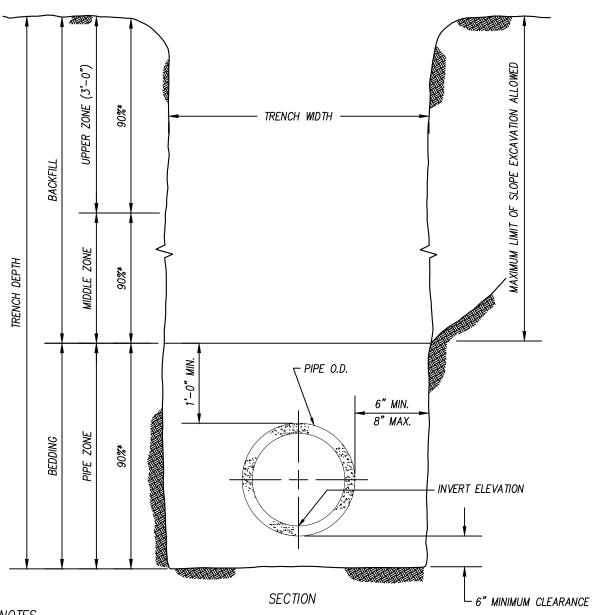
- 1. WRAP ALL IRON WITH 10 MIL THICK PLASTIC SHEETING.
- 2. THIS DRAWING IS NOT APPLICABLE TO STEEL PIPE INSTALLATIONS.



SECTION A-A

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITT OF FOWAT STANDARD DRAWING		2/4/2
				CONCRETE ANCHOR BLOCK FOR	CITY ENGINEER	<i>5/18/13</i> DATE
				BUTTERELY VALVE ASSEMBLY	R.C.E. 41975	52
				12-INCH AND LARGER	DRAWING	PW-19 2
				IZ-INCH AND LARGER	NUMBER	F W-19.2



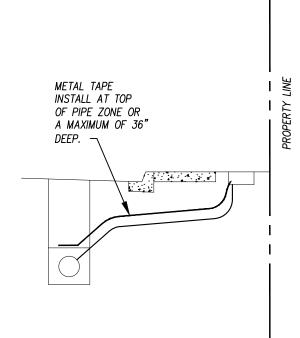


- 1. FOR TRENCHING ON IMPROVED STREETS SEE SDRSD G-24A (TYPE A) AND G-24B FOR RESURFACING DETAILS. TOP 12" SHALL BE 95% R.C.
- 2. (*) INDICATES MINIMUM RELATIVE COMPACTION.
- 3. BEDDING MATERIAL SHALL BE GRANULAR WITH A SAND EQUIVALENT (SE) OF NOT LESS THAN 30 AND AN EXPANSION COEFFICIENT, WHEN SATURATED WITH WATER, OF NOT MORE THAN 0.5 OF ONE PERCENT (0.5%). THE SAND MATERIAL MUST PASS 100% OF #4 SIEVE SIZE

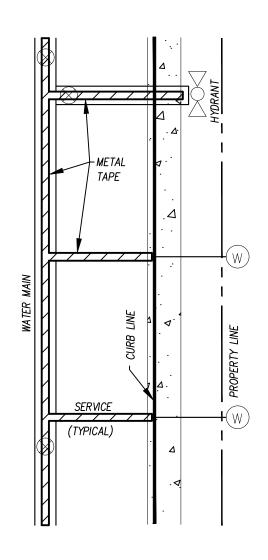
<u>PERCENT PASSING</u>
100
75 – 100
0 - 15

	REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
	REDRAWN	MR	S. CROSBY	03/13	CITT OF FOWAT STANDARD DRAWING	11	2/10/10
L					DIDE DEDDING AND TDENGLI DAGKELLI	CITY ENGINEER	3/18/13 DATE
L					PIPE BEDDING AND TRENCH BACKFILL	R.C.E. 41975	
L					FOR WATER MAINS	DRAWING	PW-21
L					TOR WITTER WITH	NUMBER	F WV-Z1





SECTION



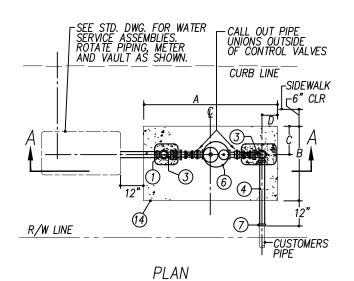
PLAN

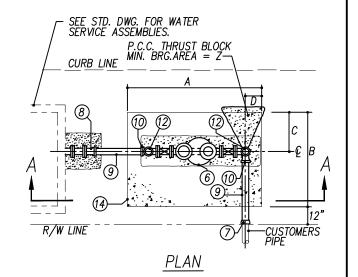
- 1. ALL TAPE TO BE 3" METALLIC BLUE IN COLOR
- AND "WATER LINE BELOW" PRINTED CONTINUOUSLY.

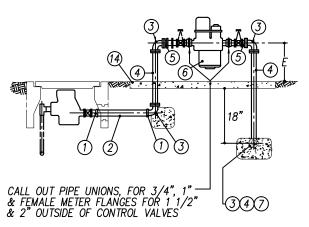
 2. ADEQUATELY BOND SERVICE TAPE TO ENSURE ELECTRICAL CONTINUITY.
- 3. TAPE SHALL EXTEND INTO SERVICE BOX OR WELL CASING TO ALLOW FOR MARK-OUT BY CONTINUITY TESTER.

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITT OF FOWAT STANDARD DRAWING		3/19/12
				METALLIC TAPE LOCATOR	CITY ENGINEER R.C.E. 41975	DATE
				FOR NON-METALLIC WATER PIPE	DRAWING PW- NUMBER	-25





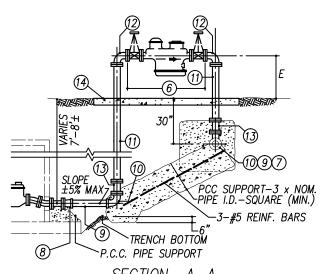




NOTE: SILVER SOLDER REQUIRED

SECTION A-A

3/4", 1-1/2" AND 2" ASSEMBLY

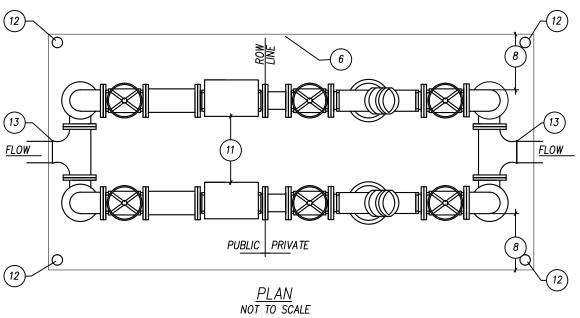


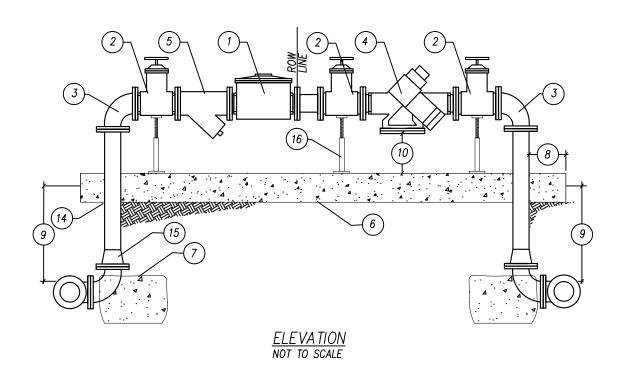
<u>SECTION A-A</u> 3",4" AND 6" ASSEMBLY

		EQUIPMENT SCHEDULI	E	SIZES-DIMENSIONS							
ITEM	REQ.	DESCRIPTION	SPECIFICATIONS	REF.	3/4"	1"	1-1/2"	2"	3"	4"	6"
1	2	COPPER ADAPTER, S.J. x MALE N.P.T.		Α	3'-0"	3'-0"	4'-0"	4'-0"	6'-6"	6'-6"	8'-6"
2	-	TYPE "K" HARD COPPER TUBE		В	2'-0"	2'-0"	2'-6"	2'-6"		4'-0"	4'-6"
3	4	COPPER C X C ELL		С	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	2'-0"
4	-	BRASS PIPE, THREADED		D	3"	3-1/2"	5-1 <i>/</i> 2"	5-0 "	14"	10"	12"
5	2	BRASS CLOSE NIPPLE		Ε	1'-6"	1'-6"	1'-6"	2'-0"	2'-0"	2'-0"	2'-6"
6	1	REDUCED PRESS. BACKFLOW PREVENTER									
7	1	TEMPORARY CAP		Ζ	-	ı	_	1	5 S.F.	5 S.F.	9 S.F.
8	1	ADAPTER, C.I. FIG x R.T.		1-5	3/4"	1"	1-1/2"	2"	ı	-	-
9	_	A.C. OR P.V.C. – 150 PIPE	STD. 3'-3" LENGTH M.O.A.	6	3/4"	1"	1-1/2"	2"	3"	4"	6"
10	2	90° FIG. x R.T. C.I. BEND		7	3/4"	1"	1-1/2"	2"	4"	4"	6"
11	2	FIG. C.I. SPOOL	INTEGRALLY CAST FLANGES	8-10	_	-	_	1	4"	4"	6"
12	2	90° FIG. C.I. BEND		11&12	ı	-	-	-	3"	4"	6"
13	2	FIG. C.I. REDUCER		13	1	-	_	1	4" x 3"	1	-
14	1	2'X 3'X 4" CONCRETE SPLASH PAD	SEE TABLE	14	W101	+100T	W201+200T	W202+200T	GV-	200	GV-300

REVISION REDRAWN	BY MR	APPROVED s. crosby	DATE 03/13	CITY OF POWAY STANDARD DRAWING	APPROVED	-4.4
				REDUCED PRESSURE BACKFLOW	CITY ENGINEER R.C.E. 41975	
				PREVENTER ASSEMBLY	DRAWING NUMBER	PW-26







- 1. IF UNINTERRUPTIBLE SERVICE IS NEEDED, THEN A BYPASS MAY BE INSTALLED WITH CITY APPROVAL.
 BYPASS MUST BE PROTECTED BY BACKFLOW PREVENTER.
 2. SEE PW-27.1 FOR ADDITIONAL NOTES AND MATERIALS DATA.

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
ADDED NOTE	DS	FDC	9/7/07	CITT OF POWAT STANDARD DRAWING	111	3/19/12
REDRAWN	MR	S. CROSBY	03/13	7" 0 LADOED WATED METED /	CITY ENGINEER	<u>3//8//3</u> DATE
				3" & LARGER WATER METER/	R.C.E. 41975	5,112
				BACKFLOW PREVENTER INSTALLATION	DRAWING	PW-27
				Brioni Eon The Venter into meeting	NUMBER	F VV—Z/



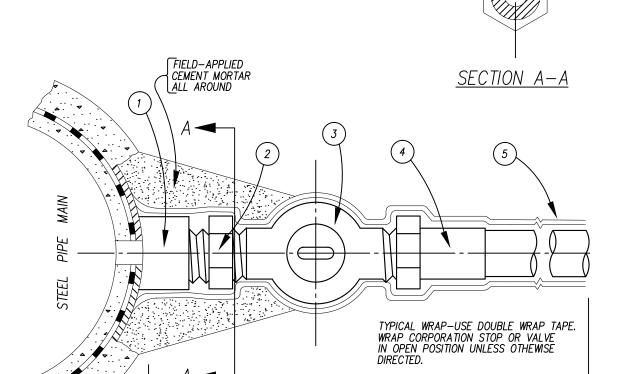
- 1. 48"CHAIN LINK FENCE WITH BLACK EPOXY COATED FINISH IS OPTIONAL.
- 2. PAINT AS PER POWAY STANDARD
- 3. FLANGE BOLTS ARE TO BE 316 STAINLESS STEEL.
- 4. LOCATE BACKFLOW PREVENTION DEVICE IN SUCH A MANNER THAT WILL ALLOW THE DEVICE TO BE READILY ACCESSIBLE FOR INSPECTION AND REPAIR.
- 5. TESTING SHALL BE CONDUCTED PRIOR TO ACCEPTANCE BY PUBLIC WORKS.
- 6. MATERIALS SHALL BE SELECTED FROM THE CITY OF POWAY'S APPROVED MATERIALS LIST.

<u>ITEM</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SPECS</u>		
1	_	WATER METER	SINGLE READ COMPOUND (SUPPLIED BY THE CITY OF POWAY)		
			(INSTALLED BY CONTRACTOR)		
2	_	WEDGE VALVE	RER APPROVED MATERIALS LIST		
3	_	90° ELBOW	CAST IRON		
4	-	BACKFLOW PREVENTER	PER APPROVED MATERIAL LIST		
5	_	STRAINER			
6	_	CONCRETE PAD	6" THICK (2,500 PSI)		
7	_	THRUST BLOCK	PW-17.1		
8	-	6"			
9	-	36" MIN.			
10	_	12" MIN., 24" MAX.			
11	-	18" MIN., 30" MAX.			
12	_	PROTECTION POSTS	PW-16.2		
13	_	PUSH-ON T	CAST IRON (MUST BE SIZE OF SERVICE)		
14	_	PIPE PENETRATION	WRAP IN 10 MIL VISQUEEN		
15	_	FLXFL REDUCER			
16	-	ADJUSTABLE VALVE SUPPORT			
		UNINTERRUPTABLE SERVIC	CE EQUIVALENTS		
		SERVICE SIZE	METERS REQUIRED		
		3"	2 – 2" METERS		
	E E METERO		2 – 3" METERS		
		6"	2 – 4" METERS		
		8"	2 – 6" METERS		
		10"	2 – 8" METERS		

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITT OF POWAT STANDARD DRAWING	11	2/0/-
				3" & LARGER WATER METER/	CITY ENGINEER	3/18/13 DATE
				3" & LARGER WATER METER/	R.C.E. 41975	
				BACKFLOW PREVENTER INSTALLATION	DRAWING	PW-271
				2.13.1.23.1.1.2.2.1.1.1.1.1.1.1.1.1.1.1.	NUMBER	1 VV ∠/.1



DIELECTRIC CONNECTIONS SHALL BE REQUIRED ON ALL AIR AND VACUUM VALVE ASSEMBLIES, MANUAL AIR RELEASE ASSEMBLIES, BLOW-OFF ASSEMBLIES, AND WATER SERVICE ASSEMBLIES WHERE COPPER TUBING OR BRASS PIPE CONNECTIONS ARE MADE TO STEEL MAINS.



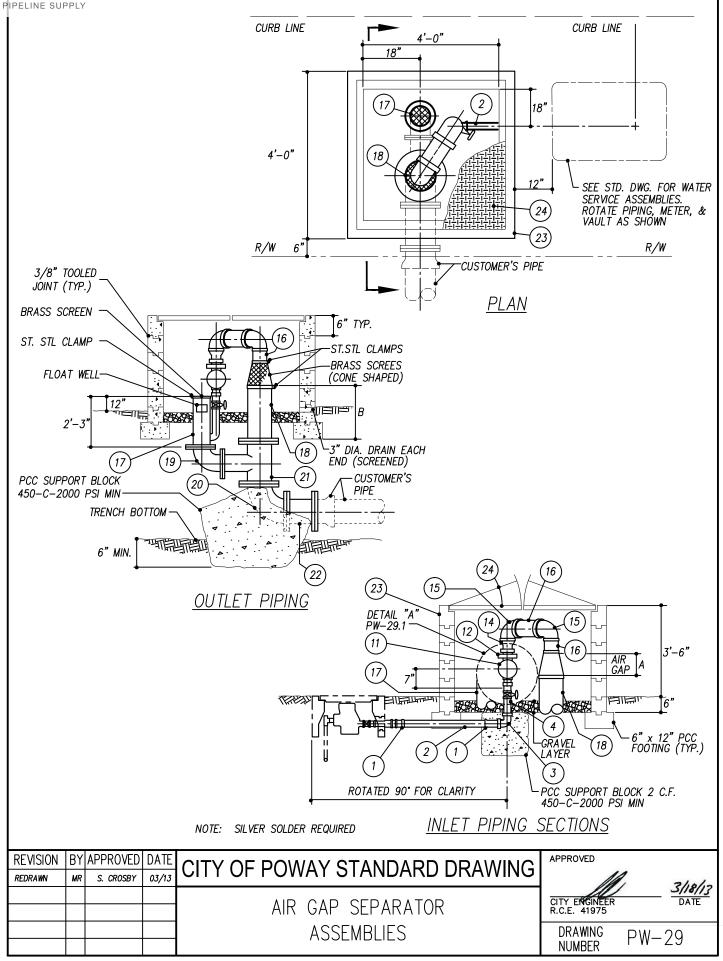
<u>COPPER</u> <u>TUBING</u>	VALVE OR CORP. STOP	<u>STEEL</u> <u>COUPLING</u>	INSULATING BUSHING
3/4"	3/4"	1"	3/4"x1"
1"	1"	1-1/2"	1"x1-1/2"
1-1/2"	1-1/2"	2"	1-1/2"x2"
2"	2"	2-1/2"	2"x2-1/2"

LENGTH OF WRAP ZONE = 4 FEET

<u>ITEM</u>	<u>NO.</u>	<u>DESCRIPTION</u>	<u>SPECS</u>
1	1	1/2 LENGTH OF EXTRA STRONG PIPE COUPLING	
2	1	INSULATING BUSHING-NPT	
3	1	CORPORATION STOP-MALE NPT x FLARE NUT	SEE CITY APPROVED MATERIALS LIST
4	1	CORPORATION STOP FLARE NUT	
5	1	PVC TAPE (10 MILL, PRESSURE SENSITIVE)	

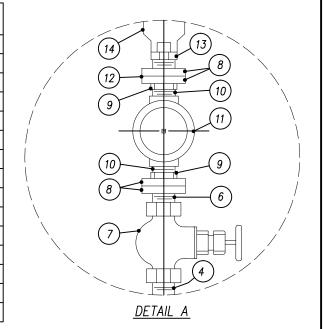
REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	OTT OF TOWAT STANDARD DIVAVIING		2/10/10
				DIELECTRIC CONNECTION	CITY ENGINEER	3//8/13 DATE
				DILLLO INTO CONNECTION	R.C.E. 41975	
				TO STEEL MAIN	DRAWING	PW-28
					NUMBER	1 11 20







	<u>SIZES-DIMENSIONS</u>									
<u>REF.</u>	<u>3/4"</u> 6"	<u>1"</u>	<u>1-1/2"</u>	<u>2"</u>						
Α	6"	8"	12"	12"						
В	2'-3"	2'-3"	2'-1"	2'-0"						
1 THRU 7	3/4"	1"	1-1/2"	2"						
8	3/4" – 4 REG	1"-2 REG	1-1/2" -2 REG	2" – 2 REG						
9	-	_	_	_						
10	3/4"	-	_	-						
11	3/4" SCR.	1" FIG.	1-1/2" FIG	2" FIG.						
12	3/4"	1" 1-1/2"		2"						
13	3/4" x 1"	1"	1-1/2"	2"						
14	1" x 3"	1" x 4"	2" x 6" *	2" x 6"						
15 & 16	3"	4"	6"	6"						
17 & 19	8"	8"	8"	8"						
18 ,20, 22	8"	8"	10"	12"						
21	8"	8"	10"x10"x8"	12"x12"x8"						

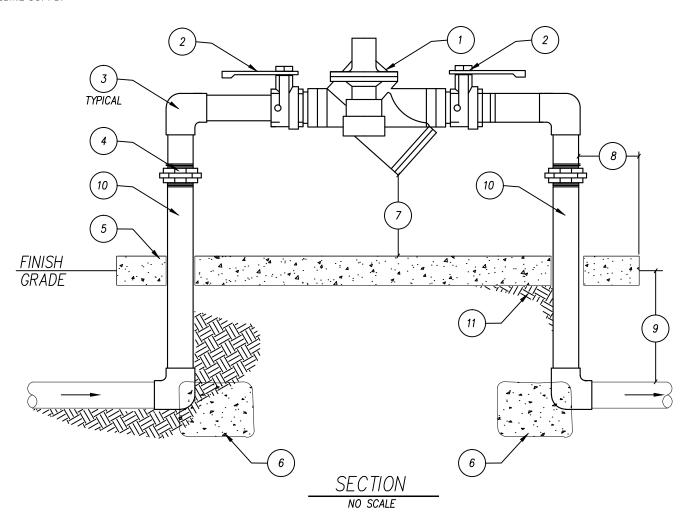


^{*} WITH 1-1/2" x 2" FLUSH, BRONZE BUSHING

		<u>EQUIPMENT SCH</u>	<u>HEDULE</u>		
<u>ITEM</u>	REQ.	<u>DESCRIPTION</u>	<u>SPECIFICATIONS</u>		
1	2	COPPER ADAPTER, S.J. x MALE N.P.T.			
2	-	TYPE "K" SOFT COPPER TUBE			
3	1	BRONZE 90° SCREWED ELL			
4	-	BRASS PIPE, THREADED			
5	1	BRONZE UNION, SCREWED			
6&10	_	BRASS CLOSE NIPPLE			
7	1	BRONZE GLOBE VALVE, SCREWED			
8	_	#150 BRONZE FLANGE, SCREWED	SEE TABLE		
9	2	BRONZE BUSHING, OUTSIDE HEAD-SCREWED			
11	1	FLOAT VALVE			
12	1	ORIFICE PLATE, PADDLE TYPE	SEE STD. SPECS FOR BORING DIA.		
13	1	COPPER ADAPTER, FTG.x MALE N.P.T.			
14	1	COPPER FTG. ADAPTER, FTG. x S.J.			
15	2	COPPER 90° ELL, S.J.			
16	-	TYPE "K" HARD COPPER TUBE			
17&18	1	C.I.P. FIG. ONE END			
19&20	1	FIG. 90° C.I. BEND			
21	1	FIG. C.I. TEE			
22	1	FIG. C.I. SPOOL, 12" LONG	INTEGRALLY CAST FLANGES		
23	_	PRECAST CONCRETE VAULT	"QUICKSET" TV-3013		
24	-	HINGED COVER, PARKWAY TYPE	"QUICKSET" GPB-3100		

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
NEW DWG	MR	S. CROSBY	03/13	CITT OF FOWAT STANDARD DRAWING	11	3/18/13
				AIR GAP SEPARATOR ASSEMBLIES	CITY ENGINEER	DATE
				AIR GAP SEPARATOR ASSEMBLIES	R.C.E. 41975	
				NOTES AND DETAILS	DRAWING	PW-291
				110120 7110 02171120	NUMBER	1 VV-29.1



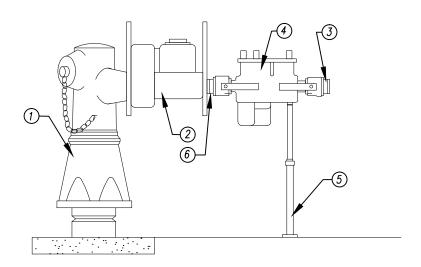


1. LOCATE BACKFLOW PREVENTER WITHIN 12" OF WATER METER OR PER ENGINEER'S DIRECTION.
2. ALL METAL JOINTS MUST BE SILVER SOLDERED.

ITEM	NO.	DESCRIPTION	SPECS
1	_	BACKFLOW PREVENTER	PER APPROVED MATERIALS LIST
2	-	BALL VALVE	PER APPROVED MATERIALS LIST
3	_	90° ELBOW	BRASS OR COPPER
4	_	UNION	BRASS OR COPPER
5	_	CONCRETE PAD	6" THICK (520-C-2500 PSI); SEE PW-26
6	_	THRUST BLOCK	PW-17.1 FOR 1 1/2" AND LARGER
7	-	12" MIN., 24" MAX.	
8	-	6"	
9	_	12" MIN.	
10	_	RISER	BRASS OR COPPER; WRAPPED WITH PLASTIC TAPE THROUGH CONCRETE
11	_	SUBGRADE	COMPACTED 90%

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
ADDED NOTE	DS			CITT OF FOWAT STANDARD DRAWING	11	2/0/-
REDRAWN	MR	S. CROSBY	03/13	2" & SMALLER BACKFLOW	CITY ENGINEER	3/18/13 DATE
				Z W OMMELLIN BRIONI LON	R.C.E. 41975	
				PREVENTER INSTALLATION	DRAWING	PW-30
					NUMBER	1 11 00



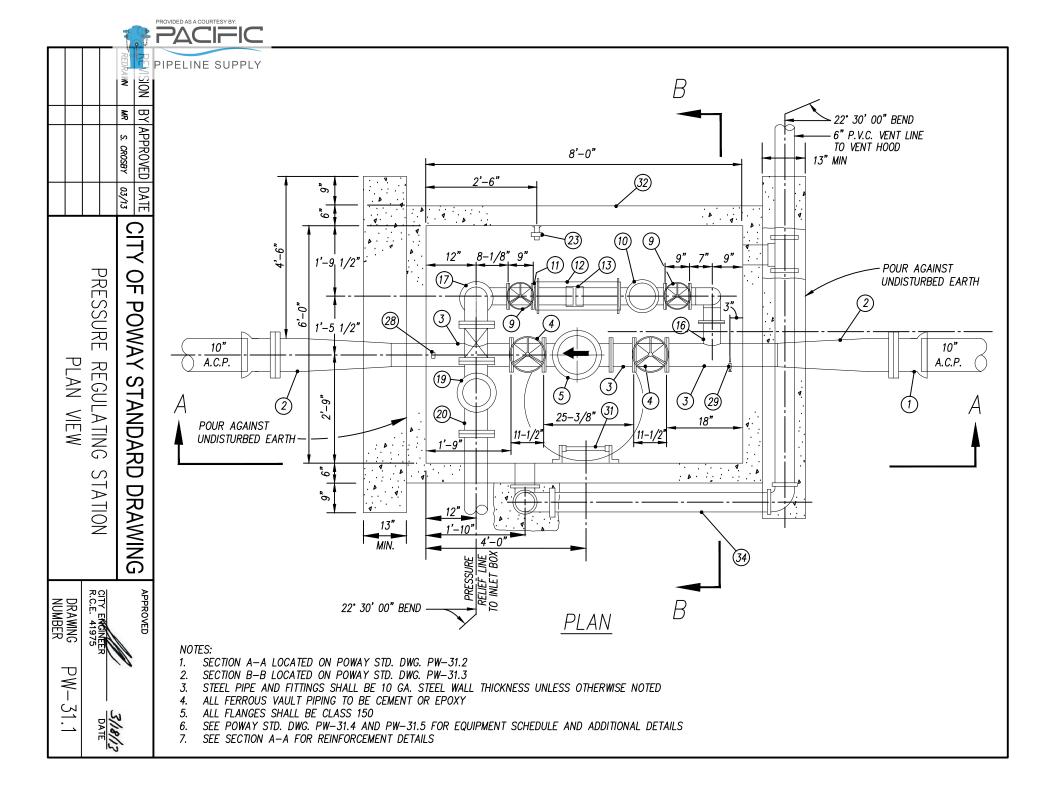


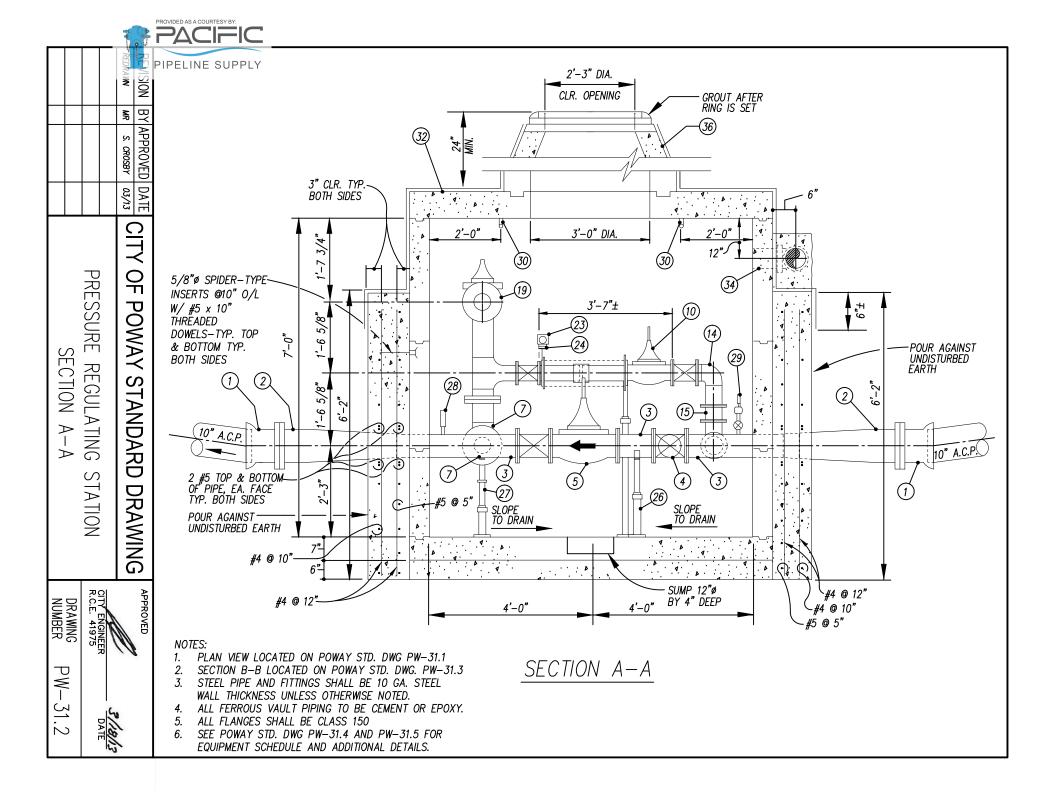
ELEVATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION BY INSTALLING A REDUCED PRESSURE PRINCIPLE PREVENTION ASSEMBLY (R.P.). THE CONTRACTOR MUST HAVE THE R.P. ASSEMBLY TESTED FOR COMPLIANCE. THE TEST MUST BE MAILED/EMAILED TO THE CITY'S CROSS—CONNECTION CONTROL DEPARTMENT OR THE PROJECT INSPECTOR WITHIN FIVE DAYS AFTER INSTALLATION. FAILURE TO DO SO CAN RESULT IN TERMINATION OF SERVICE. ANY QUESTIONS CONTACT CITY CROSS—CONNECTION CONTROL DEPARTMENT (858) 668—4744 OR (858) 668—4735.

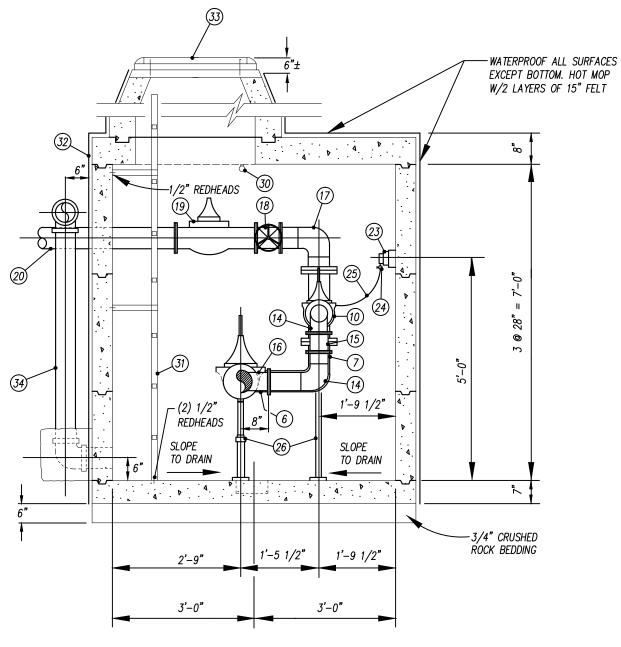
ITEM	NO.	DESCRIPTION	REMARKS
1	1	FIRE HYDRANT	
2	1	CONSTRUCTION WATER METER	SUPPLIED BY THE CITY OF POWAY
3	1	MALE FIRE HOSE CONNECTION	
4	1	REDUCED PRESSURE BACKFLOW PREVENTER	SUPPLIED BY CUSTOMER
5	1	ADJUSTABLE PIPE SUPPORT	
6	1	FEMALE FIRE THREAD CONNECTION	

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
EDIT	DS			CITT OF TOWAT STANDARD DIVAMING		2/11/2
REDRAWN	MR	S. CROSBY	03/13	CONCIDUCTION METER	CITY ENGINEER	<i>3/18/13</i> DATE
				CONSTRUCTION METER	R.C.E. 41975	57772
				BACKFLOW ASSEMBLY	DRAWING	PW-30.1
				2710111 2011 71002111221	NUMBER	1 W 50.1







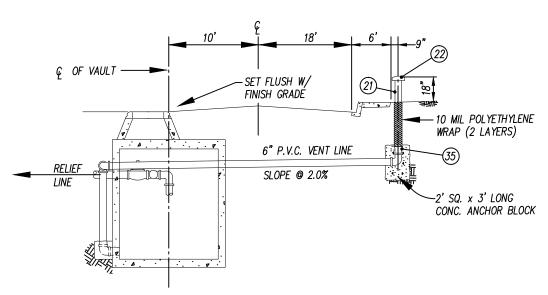


SECTION B-B

- 1. PLAN VIEW LOCATED ON POWAY STD. DWG. PW-31.1
- 2. SECTION A-A LOCATED ON POWAY STD. DWG PW-31.2
- 3. STEEL PIPE AND FITTINGS SHALL BE 10 GA. STEEL WALL THICKNESS UNLESS OTHERWISE NOTED.
- 4. ALL FERROUS VAULT PIPING TO BE CEMENT OR EPOXY.
- 5. ALL FLANGES SHALL BE CLASS 150.
- 6. SEE POWAY STD. DWG. PW-31.4 AND PW-31.5 FOR EQUIPMENT SCHEDULE AND ADDITIONAL DETAILS.

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED
REDRAWN	MR	S. CROSBY	03/13	CITT OF POWAT STANDARD DRAWING	3/18/13
					CITY ENGINEER DATE
				PRESSURE REGULATING STATION	R.C.E. 41975
				SECTION B-B	DRAWING PW-31.3
				SECTION D D	NUMBER PW-31.3



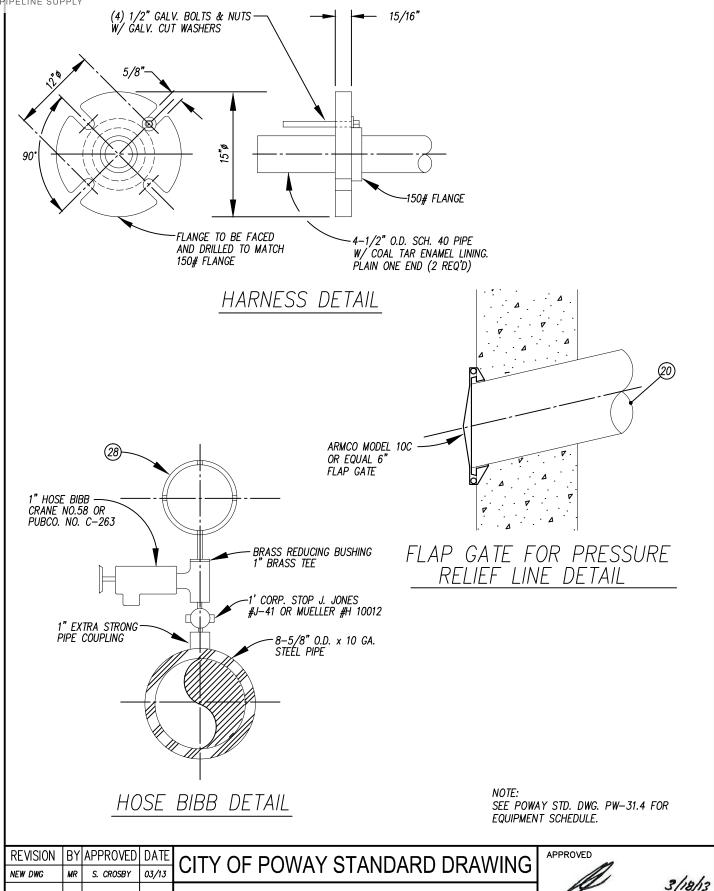


VENTILATION — LINE PROFILE

	EQUIPMENT SCHEDULE								
ITEM		ITEM							
1	10" CAST IRON FLANGE x AC ADAPTER	19	6" PRESSURE RELIEF VALVE, CLAYTON MODEL 51G-01, EPOXY						
2	10" x 8" STEEL PIPE REDUCER, CEMENT LINED AND COATED,	, ,	COATED						
	FLANGE x PE	20	6" x 10 GA. WELDED STEEL PIPE, CEMENT LINED OUTSIDE OF						
3	8-5/8" O.D. x 10 GA. STEEL PIPE, CEMENT LINED. OUTSIDE		PIPE, TO BE CEMENT COATED OUTSIDE OF VAULT AND BARE						
	OF PIPE TO BE CEMENT COATED OUTSIDE OF VAULT AND		INSIDE OF VAULT						
	BARE INSIDE OF VAULT	21	6" STANDARD WEIGHT GALVANIZED STEEL PIPE						
4	8" GATE VALVE W/ HANDWHEEL	22	MUSHROOM TYPE HOOD-ALHAMBRA FOUNDRY #A-2163						
5	8" PRESSURE REDUCING VALVE, CLAYTON MODEL 90G-01,	23	FLOW INDICATOR						
	EPOXY COATED	24	3" VALVE BRASS MANIFOLD						
6	6" STEEL FLANGED OUTLET		3/8" O.D. REFRIGERATION TUBING						
7	SHORT RADIUS STANDARD WEIGHT STEEL 90° ELBOW W/ BASE	26	ADJUSTABLE PIPE SUPPORT, GRINNEL #264						
	(2" PIPE W/ 1/4" STEEL P2)	27	2" PIPE SUPPORT W/ ADJUSTABLE COUPLING AND FLOOR FLANGE						
8	6" x 6" x 4" STANDARD WEIGHT STEEL TEE	28	3-1/2" PRESSURE GAGE W/ GAGE COCK. 0-200 PSI, MARSH TYPE I USG						
9	4" GATE VALVE W/ HANDWHEEL	29	HOSE BIBB AND PRESSURE GAGE — SEE DETAIL						
10	4" PRESSURE REDUCING AND FLOW CONTROL VALVE, CLAYTON MODEL	30	3/4"ø SPIDER TYPE ANCHOR INSERT W/ 3/4"ø SHANK,						
	49G–01, EPOXY COATED		GALVANIZED WELDLESS EYEBOLT						
11	4" ORIFICE PLATE	31	GALVANIZED LADDER-ALHAMBRA FOUNDRY #A-3400						
12	4" HARNESS—SEE DETAIL		PRE-CAST UTILITY VAULT						
13	4" FLEX. COUPLING	33	MANHOLE FRAME AND COVER-ALHAMBRA FOUNDRY #A-1105						
14	4" SHORT RADIUS STANDARD WEIGHT STEEL 90° ELBOW		WITH CAP SCREWS AND NEOPRENE RING SEAL						
15	4" STANDARD WEIGHT STEEL PIPE SPOOL	_	6" SCH. 40 P.V.C. PIPE AND FITTINGS (VENTS)						
16		35	6" SCH. 40 P.V.C. FEMALE ADAPTER						
	6" SHORT RADIUS STANDARD WEIGHT STEEL 90" ELBOW	36	PRE-CAST REINFORCED CONCRETE NECKING AND GRADE RINGS						
18_	6" GATE VALVE W/ HANDWHEEL								

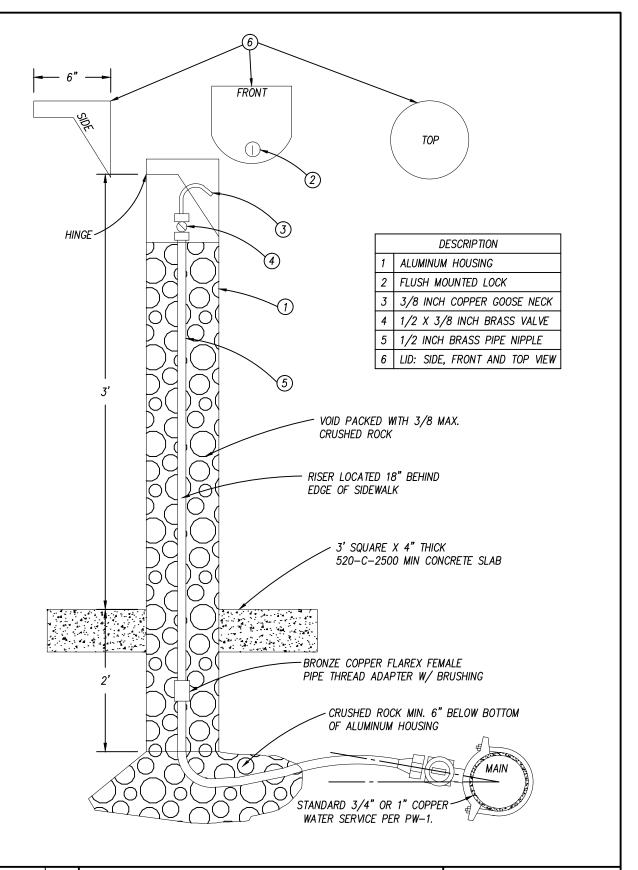
REVISION	BY	APPROVED		CITY OF POWAY STANDARD DRAWING	APPROVED
NEW DWG	MR	S. CROSBY	03/13	OTT OT TOWN TOTAL DIVINITO	3/18/12
				PRESSURE REGULATING STATION	CITY ENGINEER DATE R.C.E. 41975
				EQUIPMENT SCHEDULE AND DETAILS	DRAWING PW-31.4





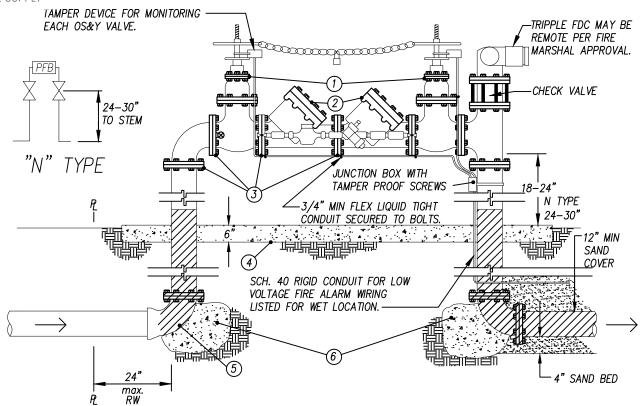
NEW DWG	MR	S. CROSBY	03/13	CITY OF POWAY STANDARD DRAWING		2/1/2
				PRESSURE REGULATING STATION	CITY ENGINEER R.C.E. 41975	<i>S//8/13</i> DATE
				DETAILS	DRAWING NUMBER	PW-31.5





REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	CITE OF LOWAL STANDARD DIVAMING	//	3/18/13
					CITY ENGINEER	3//8//3 DATE
				1" WATER SAMPLING ASSEMBLY	R.C.E. 41975	
				T WATER SAMI LING ASSEMBLE	DRAWING	PW-32
					NUMBER	1 W 52





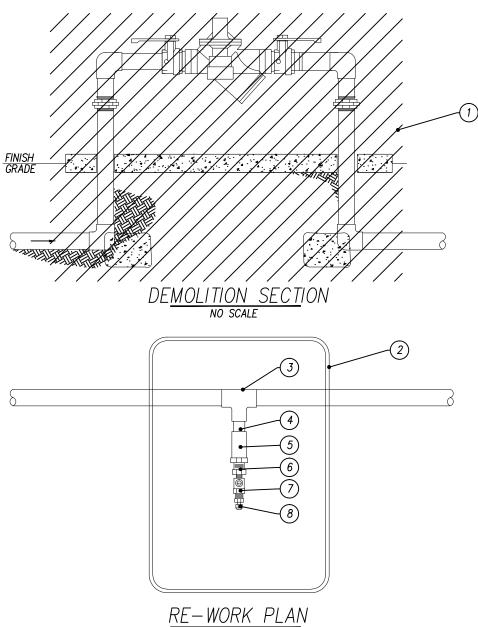
GENERAL NOTES:

- A. MATERIALS SHALL BE UL LISTED FOR FIRE SERVICE.
- B. MATERIALS SHALL BE INSPECTED PRIOR TO INSTALLATION.
- C. 316 ST. STEEL NUTS AND BOLTS.
- D. LOCATION OF BACKFLOW AND FDC SHALL BE APPROVED BY FIRE DEPARTMENT PRIOR TO PLACEMENT.
- E. WRAP BOLTS WITH 10 MIL PLASTIC SHEATHING PRIOR TO PLACEMENT OF THRUST BLOCKS.
- F. FOR STREET VALVE INFORMATION SEE POWAY STD. DWG PW-12.
- G. ANY MODIFICATION TO FIRE DEPARTMENT REQUIREMENTS MUST HAVE WRITTEN APPROVAL FROM THE FIRE DEPARTMENT.

- ① O.S.&Y. GATE VALVE WITH FULL ENCAPSULATED RESILIENT SEAT APPROVED EQUAL CONFORMING TO LATEST EDITION AWWA STANDARD C509.
- ② U.S.C. APPROVED BACKFLOW PREVENTER ASSEMBLY WITH 3/4" NON-VALVED BYPASS METER ASSEMBLY BACKFLOW. SUPPORT ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS.
- 3 ALL RISERS AND ABOVE GROUND MAINLINE FITTINGS SHALL BE DUCTILE IRON FLANGE TYPE, EPOXY COATED INSIDE OR CEMENT MORTAR LINED.
- (4) CONCRETE SLAB, 520-C-2500 PSI MIN. PROTECTION POST MAY BE REQUIRED.
- (5) PO x FI 90°
- (6) PCC THRUST BLOCKS, SIZE AS REQUIRED FOR SOIL TYPE. (SEE POWAY STD. DWG. PW-17.1 & 17.2) 450-C-2000 PSI MIN.

DOUBLE CHECK DETECTER CITY ENGINEER R.C.E. 41975 DATE	REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
DOUBLE CHECK DETECTER R.C.E. 41975	REDRAWN	MR	S. CROSBY	03/13		3/18/	12
BACKFLOW PREVENTOR DRAWING DW_33					DOUBLE CHECK DETECTER		<u> </u>
NUMBER I W-33					BACKFLOW PREVENTOR		



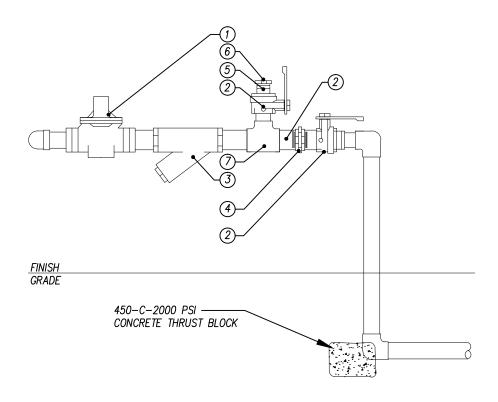


RE-WORK PLAN NO SCALE

ITEM	NO.	DESCRIPTION	SPECS
1	-	REMOVE EXISTING DEVISE AND CONCRETE	PER APPROVED MATERIALS LIST
2	-	VALVE BOX	12"X17" PLASTIC
3	-	FULL SIZE TO 3/4" TEE	COPPER
4	-	3/4" NIPPLE	COPPER
5	-	3/4" TO 3/4 THREADED	COPPER
6	-	3/4" TO 1/8"	COPPER
7	-	1/8" BALL VALVE OR TEST COCK	BRASS
8	-	1/8" COMPRESSION FITTING	COPPER

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
REDRAWN	MR	S. CROSBY	03/13	OTT OF TOWAT OTANDARD DIVAVIINO		2/10/10
				BACKFLOW PRESSURE	CITY ENGINEER	3//8//3 DATE
				Brionii Eon ii needdane	R.C.E. 41975	
				TEST STATION	DRAWING	PW-34
					NUMBER	1 11 01





SECTION NO SCALE

ITEM	NO.	DESCRIPTION	SPECS
1	-	PRESSURE REGULATOR	OWNER SUPPLIED
2	-	1" BALL VAVE	BRASS
3	-	STRAINER	OWNER SUPPLIED
4	-	UNION	COPPER
5	-	1" THREADED NIPPLE	COPPER
6	-	THREADED CAP	BRASS
7	-	FULL SIZE TO 1" TEE	COPPER

REVISION	BY	APPROVED	DATE	CITY OF POWAY STANDARD DRAWING	APPROVED	
ADDED NOTES	DS	FDC	9/7/07	CITT OF POWAT STANDARD DRAWING	11	2/0/-
REDRAWN	MR	S. CROSBY	03/13	DOTADLE WATER CERVICE	CITY ENGINEER	3/18/13 DATE
				POTABLE WATER SERVICE	R.C.E. 41975	57.72
				LINE BYPASS DETAIL	DRAWING	PW-35
					NUMBER	1 44 00