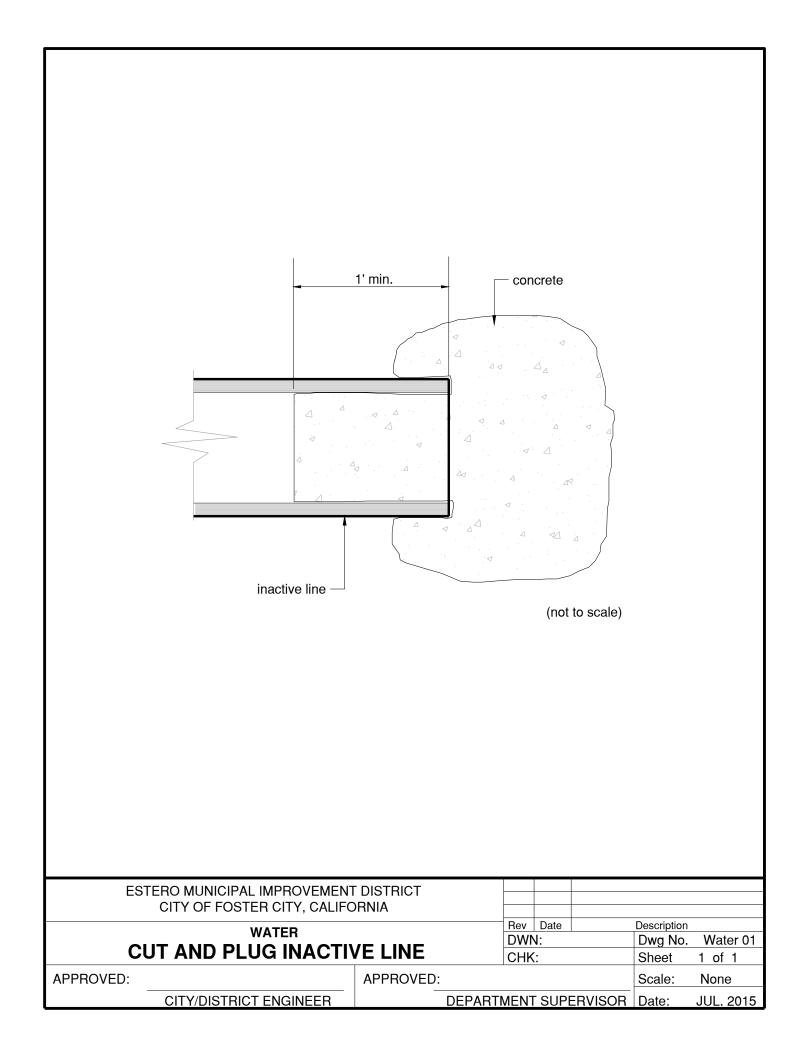
WATER STANDARD DETAILS

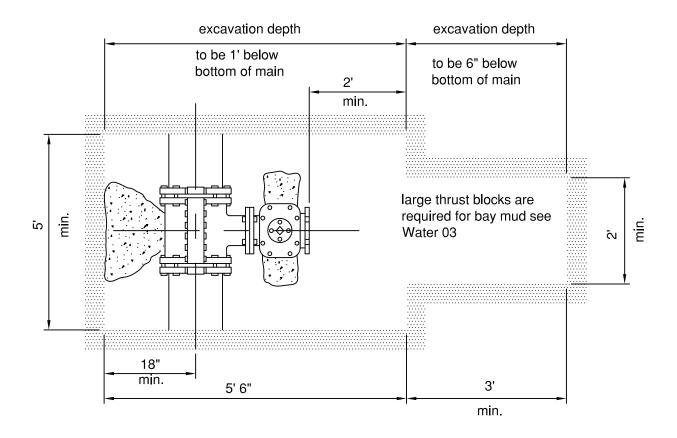
FOSTER CITY ESTERO MUNICIPAL IMPROVEMENT DISTRICT



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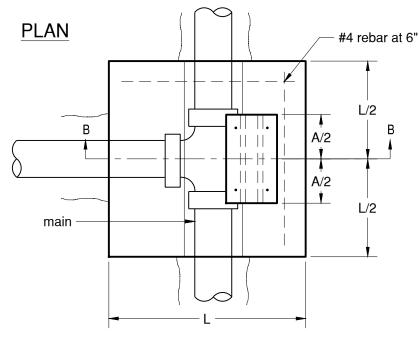
CUT AND PLUG INACTIVE LINE	Water 01
EXCAVATION FOR TAPPING SLEEVES & VALVES	Water 02
THRUST BLOCKS (IN BAY MUD)	Water 03A
THRUST BLOCKS (IN BAY MUD)	Water 03E
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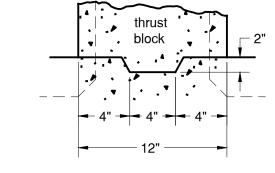


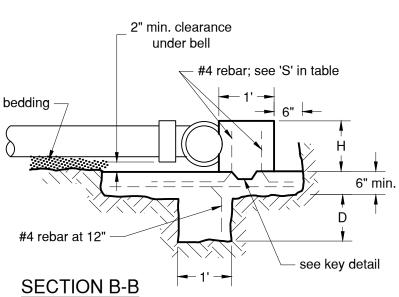
- 1. No tap to be made within 3 feet of a joint, coupling, or fitting.
- 2. Contractor to install thrust blocks behind and under valve tapping sleeve if pipe is unrestrained.
- 3. For bay mud conditions see Water Detail 03A.
- 4. Tapping sleeve and trim shall be 316 stainless steel or equal.
- 5. The contractor supplies the material and makes the wet tap.
- 6. A permit from the City Engineer is needed.
- 7. Cathodic protection shall be in place.

ESTERO MUNICIPAL IMPROVEMEN CITY OF FOSTER CITY, CALII						
WATER	544	Date :		Descri NO.	ption Water 02	
EXCAVATION FOR TAPPING SLE	XCAVATION FOR TAPPING SLEEVES & VALVES					OF
APPROVED:				SCALE	E: NONE	
CITY/DISTRICT ENGINEER	DEPARTMENT	SUPE	RINTE	NDENT	DATE:	Oct. 2007



KEY DETAIL

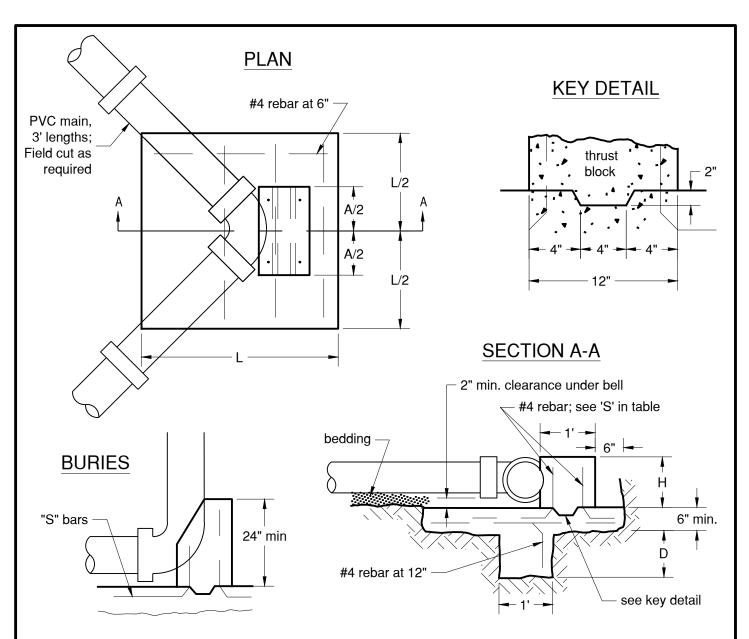




- 1. All fitting joints will be clear of concrete.
- 2. Concrete shall be Class "A".
- 3. Use 3' lengths of pipe, one each side of fitting.
- 4. Fully restrained joints may be used in lieu of thrust blocks. Advanced approval is required by the City Engineer.

	DIMEN	ISION TABLE F	OR TEE	& DEA	AD EN	DS
PIPE DIAMETER	Α	D (DEAD END)	D (TEE)	Н	L	REBAR `S' SIZE
6"	10"	12"	6"	12"	36"	No. 4
8"	13"	18"	12"	14"	48"	No. 4
10"	15"	24"	18"	16"	60"	No. 5
12"	17"	36"	28"	18"	66"	No. 6

EST	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO							
	WATER			Rev	Date		Description	
l -				DWN:			Dwg No.	Water 03A
10	IRUST BLOCKS (IN BA	(UUU)		CHK	(:		Sheet	1 of 1
APPROVED:		APPROVED:					Scale:	None
	CITY/DISTRICT ENGINEER	_	DEPARTI	/EN	ΓSUPI	ERVISOR	Date:	JUL. 2015



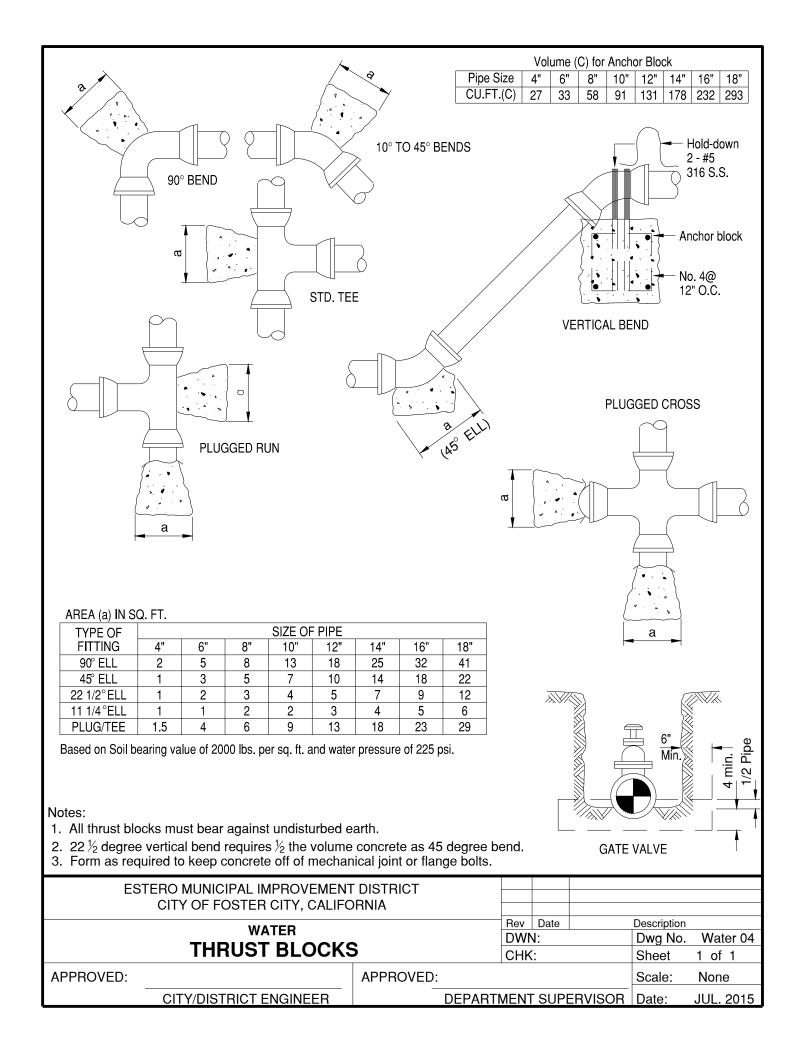
	DIMENSION TABLE FOR HORIZONTAL BENDS (Inches)																			
PIPE		9	0° Bl	END			45° BEND				22-1/2° BEND				11-1/4° BEND					
SIZE	Α	D	Н	L	BAR	Α	D	Н	L	BAR	Α	D	Н	L	BAR	Α	D	Н	L	BAR
6"	10	6	12	36	No. 4	10	0	12	24	No. 4	8	0	12	24	No. 4	7	0	12	24	No. 4
8"	13	12	14	48	No. 4	12	6	14	24	No. 4	9	0	14	24	No. 4	8	0	14	24	No. 4
10"	15	18	16	60	No. 5	13	6	16	36	No. 5	11	0	16	24	No. 4	9	0	16	24	No. 4
12"	17	24	18	66	No. 6	15	12	18	48	No. 5	13	6	18	24	No. 4	10	0	18	24	No. 4

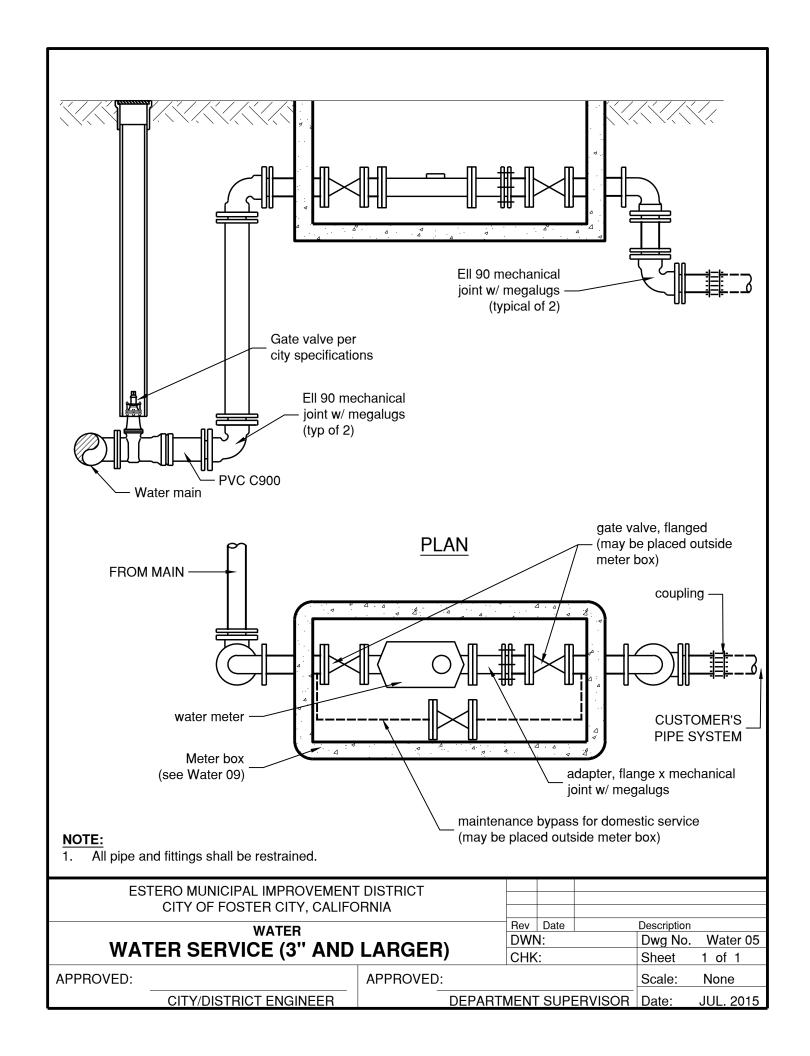
All dimensions are in inches; 'S'-size rebar.

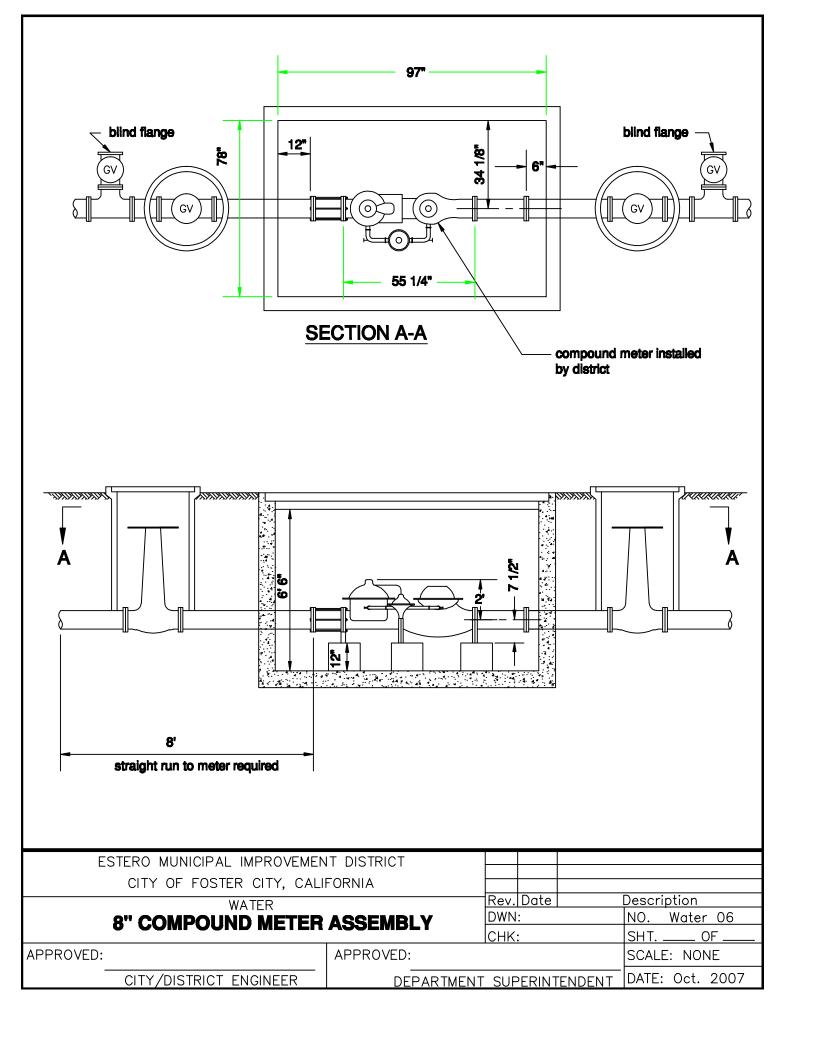
Based on soil bearing value of 1500 lbs. per sq. ft. and water pressure of 150 psi.

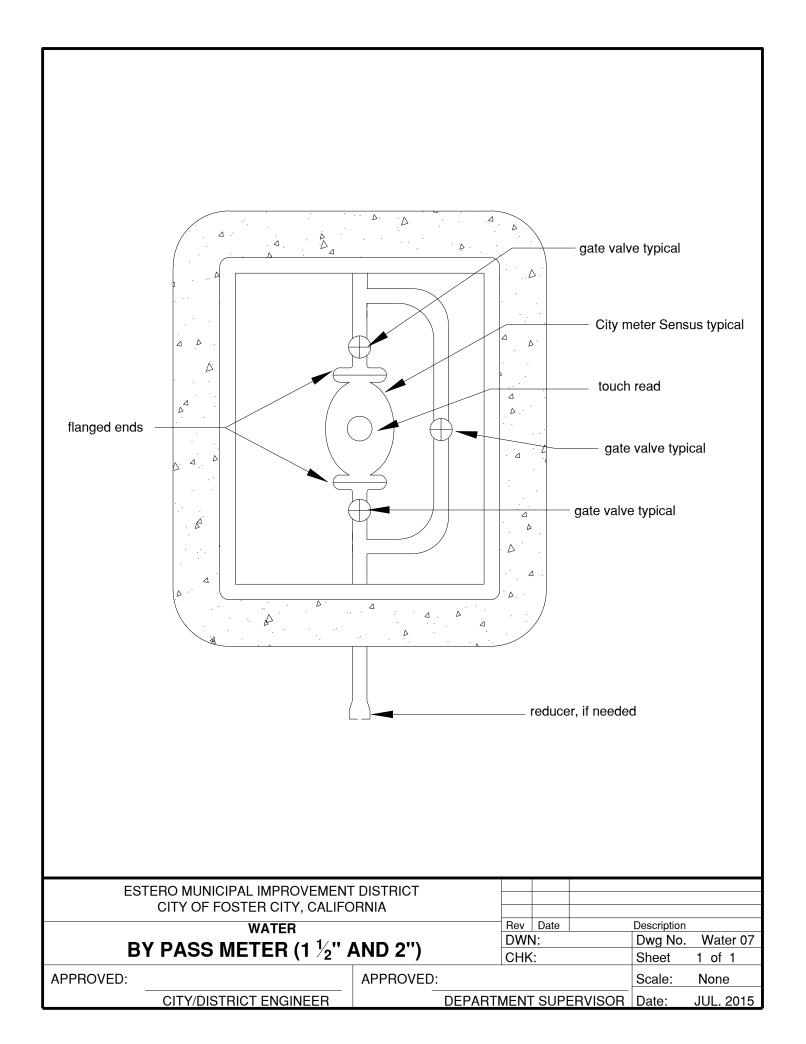
Fully restrained joints may be used in lieu of thrust blocks. Advanced approval is required by the City Engineer.

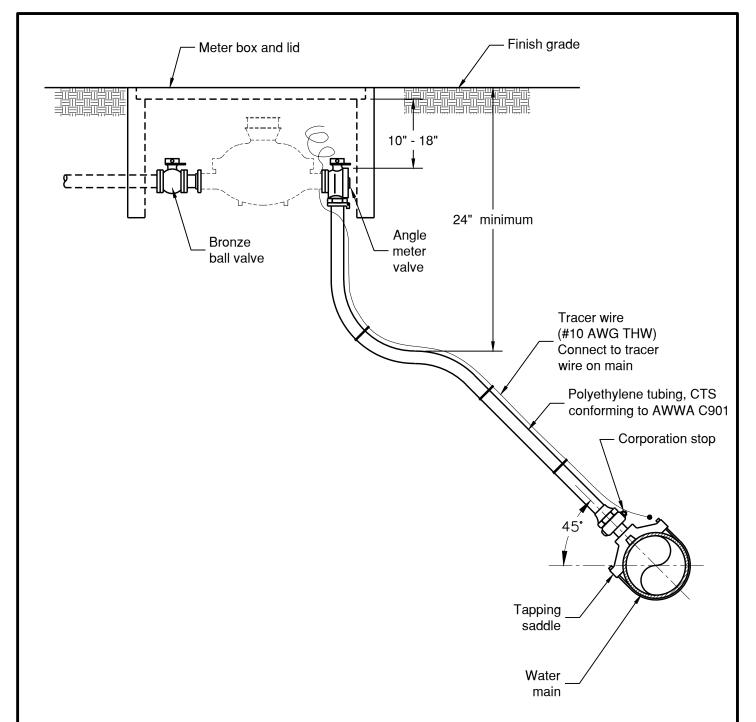
ES	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO							
	WATER			Rev	Date		Description	\\/-+ 00D
I ⊤∟	THRUST BLOCKS (IN BAY MUD)			DWN:			טwg No.	Water 03B
1 5	INUST BLUCKS (IN BA	(T MOD)		CHK	ζ:		Sheet	1 of 1
APPROVED:		APPROVED:					Scale:	None
	CITY/DISTRICT ENGINEER		DEPARTI	MENT	SUPE	RVISOR	Date:	JUL. 2015











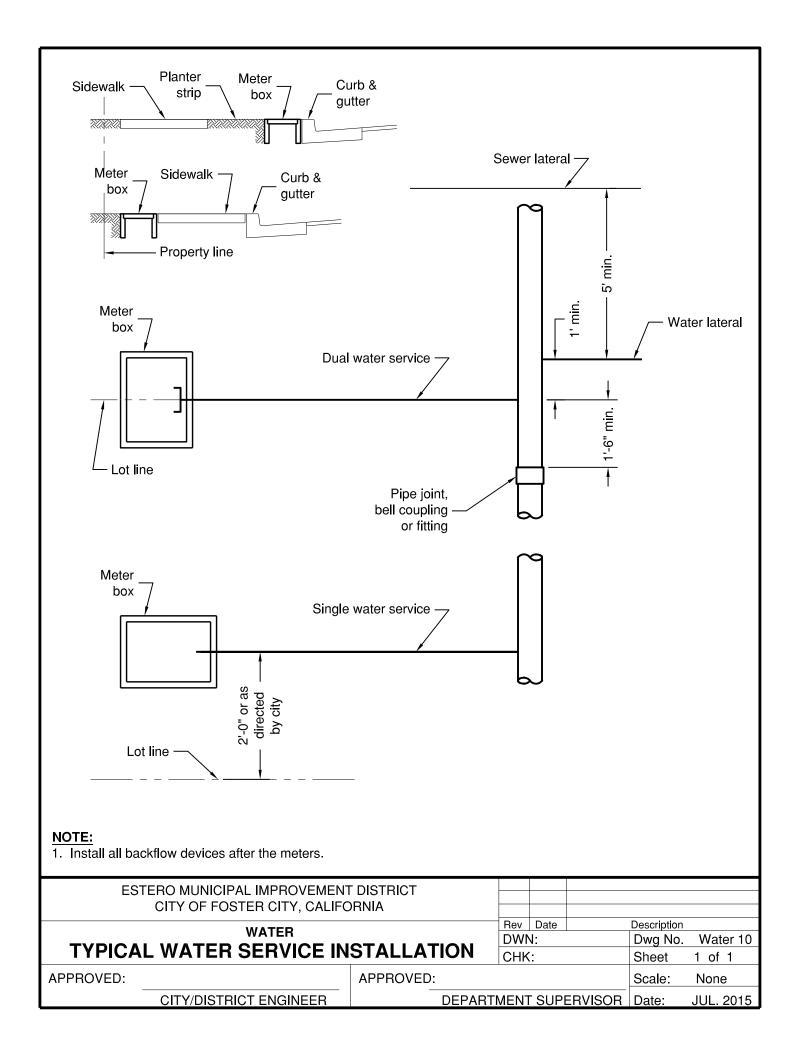
- All meters shall have a minimum 10" and a maximum 18" space from the top of the angle stop or flange to the bottom of the meter box lid.
- Installation: Add $\frac{1}{4}$ " extra spacing to the meter length to allow for two $\frac{1}{8}$ " thick gaskets. For example, on a 13" 2. long $1\frac{1}{2}$ " meter, leave $13\frac{1}{4}$ " from flange to flange. See Water 10 for service materials.
- 3.

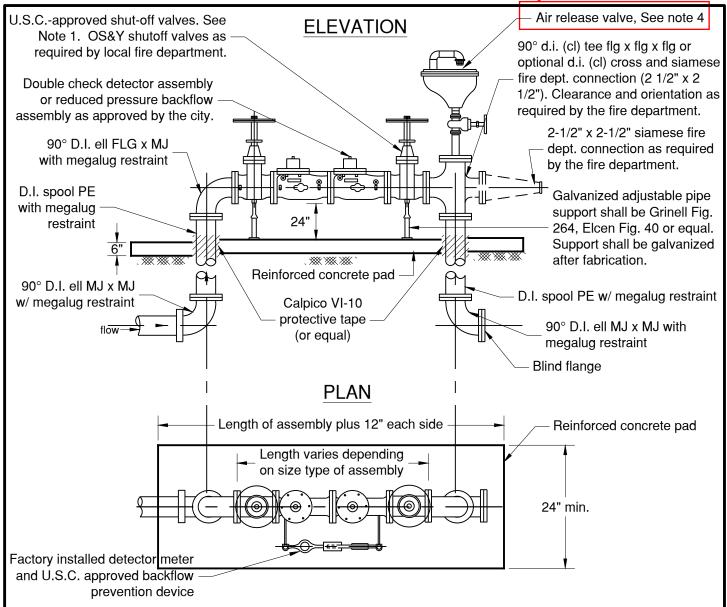
EST	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO							
W	WATER WATER SERVICE CONNECTION						Description Dwg No. Sheet	Water 08 1 of 1
APPROVED:		APPROVED	:				Scale:	None
	CITY/DISTRICT ENGINEER	_	DEPART	ΛEN1	SUPER	RVISOR	Date:	JUL. 2015

SIZE	SADDLE TYPE	CORP STOP	ANGLE STOP	METER CONNECTION	METER BOX	METER LID	SENSUS TYPE	OPERATING RANGE (gpm)	METER LENGTH
3/4"	ACP & DIP - Bronze Double Strap, PVC-Single Band Saddle	Mueller B-2500813, Ford FB1000Q	Mueller B-24258, Ford BA43 -332WQ	Meter Swivel Nut	Christy B12	Christy B12P	SRII	0.5 - 30	9"
1"	ACP & DIP - Bronze Double Strap, PVC-Single Band Saddle	Mueller B-2500813, Ford FB1000Q	Mueller B-24258, Ford BA43 -444WQ	Meter Swivel Nut	Christy B16	Christy B16P	SRII	0.75 - 50	10 3/4"
4.1/11	ACP & DIP - Bronze	Mueller	Mueller	Flores	Christy B30	Christy B30P	OMNI C ²	0.25 - 200	13"
1 ½"	Double Strap, PVC-Single Band Saddle	B-2500813, Ford FB1000Q	B-24276, Ford BFA43 -666WQ	Flange	Chilisty D30	Offisty Book	OMNI T ²	0.75 - 200	13"
0"	ACP & DIP - Bronze	Mueller	Mueller		Christy D26	Christy DOCD	OMNI C ²	0.25 - 200	15 1/4"
2"	Double Strap, PVC-Single Band Saddle	B-2500813, Ford FB1000Q	B-24276, Ford BFA43 -777WQ	Flange	Christy B36	Christy B36P	OMNI T ²	1.0 - 250	17"
0"	Stainless Steel Tapping	Resilient	N1.0		Christy B48	Christy D40M	OMNI C ²	0.5 - 500	17"
3"	Saddle, 316 SS Straps and Hardware	Wedge Gate - 4"	NA	Flange	Chilisty D46	Christy B48M	OMNI T ²	1.5 - 650	19"
4"	Stainless Steel Tapping Saddle, 316 SS Straps and Hardware	Resilient Wedge Gate - 4"	NA	Flange	Christy B48	Christy B48M2	OMNI C ² OMNI T ² OMNI F ²	0.75 - 1000 2.0 - 1250 1.5 - 1000	20" 23" 33"
011	Stainless Steel Tapping	Resilient		-	Obviety DEO	Christy BEO COC	OMNI C ²	2.5 - 2500	24"
6"	Saddle, 316 SS Straps and Hardware	Wedge Gate - 6"	NA	Flange	Christy B52	Christy B52-62G	OMNI F ²	3.0 - 2000	45"
0"	Stainless Steel Tapping	Resilient		E.	Obviety DEO	Christy BEO COC	OMNI C ²	4.0 - 2700	30"
8"	Saddle, 316 SS Straps and Hardware	Wedge Gate - 8"	NA	Flange	Christy B52	Christy B52-62G	OMNI F ²	4.0 - 3500	53"

- Meter box to be provided by contractor.
 For location of water service see improvement plans.
- 3. Single strap bronze saddles shall be required for 1" taps on all mains less than 8" diameter and AC pipe 12" or smaller.
- 4. Double strap bronze saddle shall be required on all taps 1 $\frac{1}{2}$ " or larger.
- 5. Double or triple strap saddle shall be used on AC pipe 12" or larger.
- 6. PVC pipe shall use single bolt band type stainless steel saddle.
- All saddles shall be Mueller, Ford, or approved equal.
 Boxes installed in driveways shall have traffic covers.
- 9. Meter assembly for $\frac{3}{4}$ " & 1" meters for larger meter assembly, see Water 09

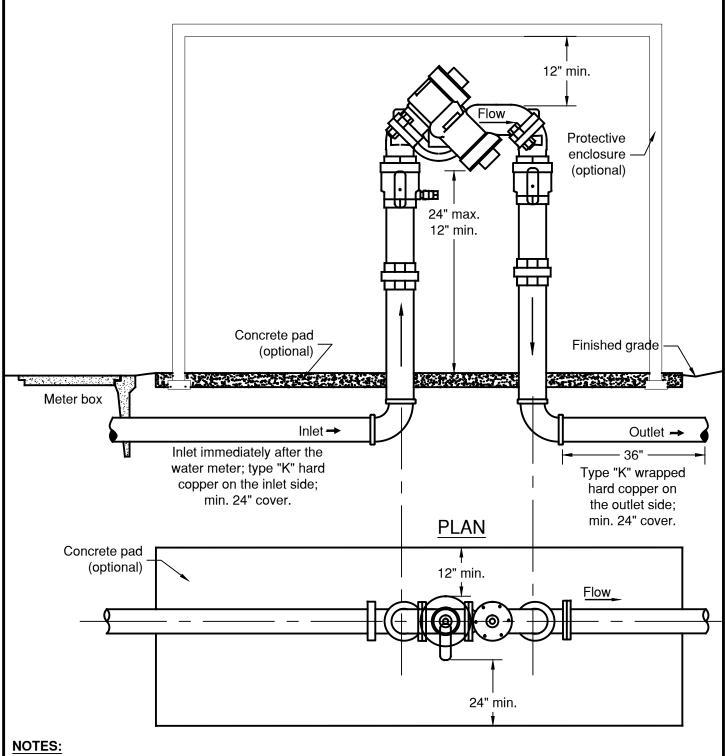
FST	ERO MUNICIPAL IMPROVEMENT DISTRICT	Rev	Date	Description		
LOI						
	CITY OF FOSTER CITY, CALIFORNIA					
	WATED					
	WATER	DWN	:		Dwg No.	Water 09
	METER ASSEMBLY	CHK:			Sheet	1 of 1
APPROVED:		APP	ROVE	D:	Scale:	None
-	CITY/DISTRICT FNGINFFR			DEPARTMENT SUPERVISOR	Date:	JUL. 2015





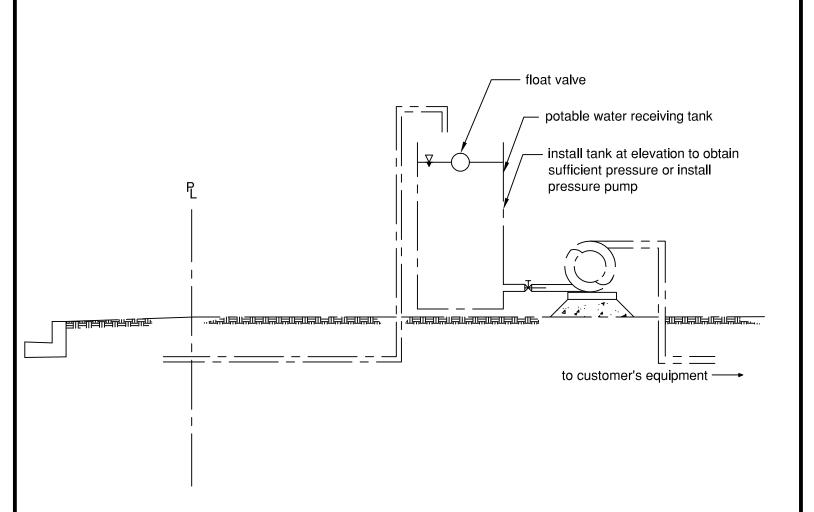
- 1. Backflow prevention assemblies shall be u.s.c. approved assemblies. Entire assemblies including isolation valves, test cocks and detector meter shall be provided as a complete unit.
- 2. Thrust blocks shall be sized per Std. Plan Water 04, unless restrained.
- 3. Assemblies on fire service lines shall have OS&Y valves. Hand wheels on OS&Y valves shall be chained and locked. Use galvanized chain, straight link.
- 4. Backflow preventers 2.5" and larger shall have an air release valve. Valves shall be apco no. 50, 1/2" for 2.5" to 6" service, 3/4" for 8" to 12" service.
- 5. No connections or tees will be allowed between meter or isolation valve and backflow preventer.
- 6. Device must be accessible for testing and maintenance. Location shall be approved by city prior to installation.
- 7. Installations using threaded or soldered fittings shall include one three part union on each side of the assembly. Solder shall be lead free.
- 8. City shall install Sensus touch read meter, use detail for domestic and fire service line installations. Developer is responsible for the cost of the 3/4" detector meter.

EST	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO						
DOUBLE CHE	WATER OUBLE CHECK/REDUCED PRESSURE BACKFLOW ASSEMBLY					Description Dwg No.	Water 11
			CHK	:		Sheet	1 of 1
APPROVED:	PPROVED: APPROVED:					Scale:	None
	CITY/DISTRICT ENGINEER DEPAR				ERVISOR	Date:	JUL. 2015



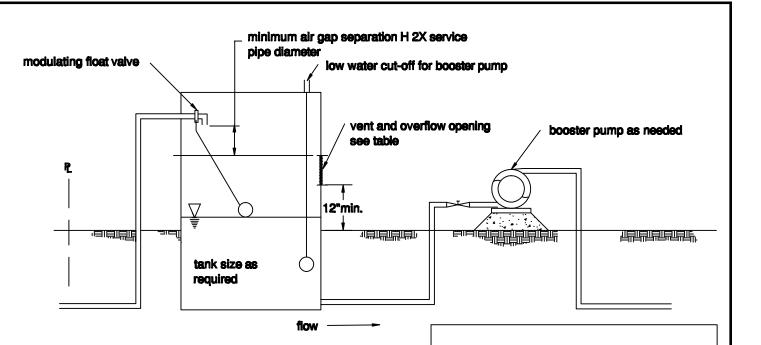
- 1. No connections shall be made between meter and backflow.
- 2. Backflow assemblies must be tested at the time of installation & annually by a certified tester.
- 3. Copper fittings shall be connected with lead free solder joints or approved equal.
- 4. All nipples to be copper or brass.

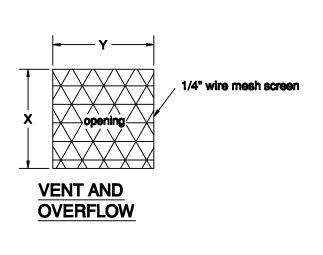
EST	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO					
TYPIC	WATER TYPICAL BACKFLOW INSTALLATION				Description Dwg Notes Sheet	
APPROVED:		APPROVED:			Scale:	None
	CITY/DISTRICT ENGINEER			SUPERVIS	OR Date:	JUL. 2015



- 1. All metal material lower than 12" above ground must be epoxy lined and coated.
- 2. Tank shall be of substantial construction and of a kind and size to suit consumer's needs.
- 3. Tank may be situated at ground level, but must have a pump to provide adequate pressure.
- 4. Design, fabrication, installation, and operation must comply with the standards of the AWWA and all federal, state, and local laws, rules, regulations, orders, codes, and ordinances.
- 5. No connections shall be between the meter and the receiving vessel.

ESTERO MUNICIPAL IMPROVEMEN CITY OF FOSTER CITY, CALIF						
WATER TYPICAL AIR GAP SEPARATION I	Rev. DWN: CHK:			Description NO. Wat		
APPROVED:	,			SCALE: N	ONE	
CITY/DISTRICT ENGINEER	IT SUI	PERIN	TENDENT	DATE: Oc	t. 2007	



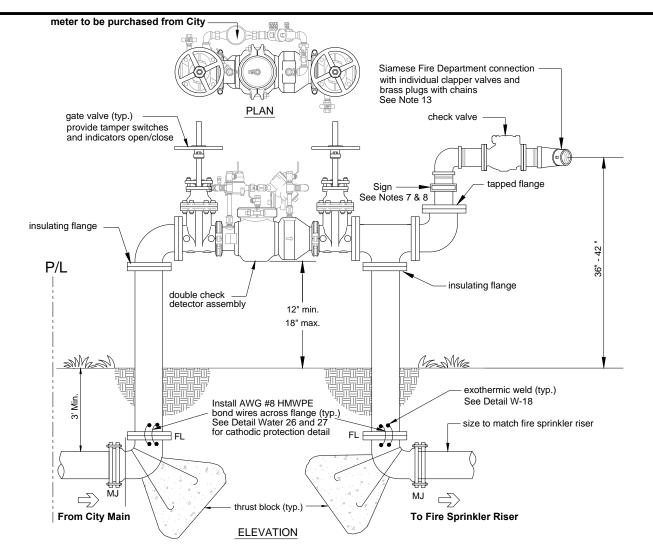


V = 1(1)	AND OVER LO	
SERVICE PIPE	DIME	ENTIONS
SIZE	X	Y
3/4"	4"	3"
1"	4"	4 1/2"
1 1/2"	5"	6"
2"	6"	7"
3"	7"	10"
4"	7"	10"
6"	7"	15"

VENT AND OVERFLOW TABLE

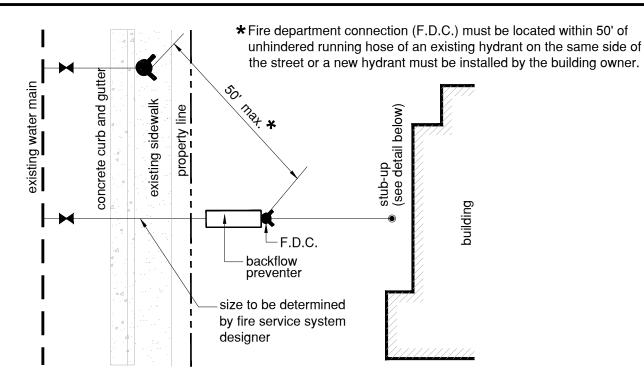
- 1. Design, fabrication, installation, and operation must comply with standards of the AWWA and all federal, state, and local laws, rules, regulations, orders, codes, and ordinances.
- 2. No connections shall be made between the meter and the receiving vessels.
- 3. The overflow opening and screen size shall be as shown hereon or greater capacity as required to maintain the specified air gap separation.
- 4. All metal materials lower than 12" above ground level must be epoxy lined and coated.

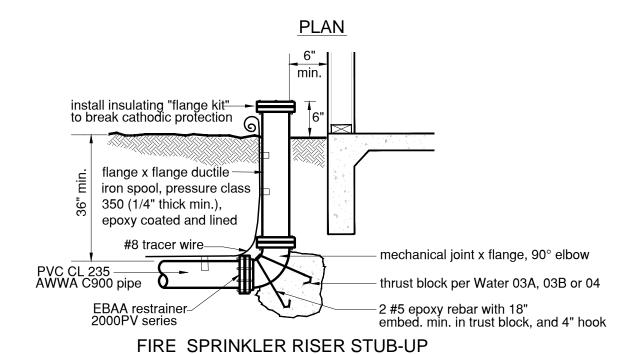
	PAL IMPROVEMENT DSTER CITY, CALIFO					
ALTERNATIVE AIR G	STALLATION	Rev. Dat DWN: CHK:		Descrip NO. SHT	otion Water 14 —— OF ———	
APPROVED:	,	APPROVED:			SCALE	: NONE
	CT ENGINEER	DEPARTMEI	NT SUPER	RINTENDENT	DATE:	Oct. 2007



- 1. Install thrust blocks per City Standard Detail Water 03A, 03B and 04.
- 2. Minimum cover shall be 3 feet.
- 3. Double Check Detector Assembly shall be Wilkins 350ADA or approved equal and listed by the University of Southern California, and approved by the County Health Department or as called on note # 5.
- 4. Landscape plantings, when fully grown, shall not obscure valve or fire department connection (three feet minimum clearance required on all sides) for operation, testing and maintenance.
- 5. If the premises are connected to an auxiliary water supply or operates with chemicals, a Reduced Pressure Principle Backflow Prevention Device shall be used.
- For fire department connections supplying combination sprinkler system one 2 1/2 inch inlet is required for each 250 GPM of the system demand or fraction thereof.
- 7. All indicating valves and fire connections shall be identified as to its function and what they serve. The sign shall be aluminum with a minimum thickness of 0.080 inch. The message shall be a minimum of one-inch high black lettering on a white reflective reflective background. All background sheeting and letters used shall be high intensity manufactured by 3M company. The sign shall be mounted by at least two flared leg brackets attached to the riser by stainless steel straps.
- 8. For systems requiring a fire pump, the inlets of the fire department connections shall have permanent signs stating the pumping pressures needed to overcome the internal water system. Signs shall be constructed and mounted similar to identification signs.
- 9. All underground bolts, nuts and washers shall be 316 stainless steel.
- 10. All remaining control valves are to be installed per City Code.
- 11. All fittings, pipes, and appurtenances sizes are to be determined by the Fire Service System Designer.
- 12. Provide cathodic protection anode per Std. Details Water 22 through 26.
- 13. Siamese assembly is optional and any changes shall be approved by the Fire Department and by Engineering.
- 14. Location shall be coordinated with Fire Department and City Landscape Architect.

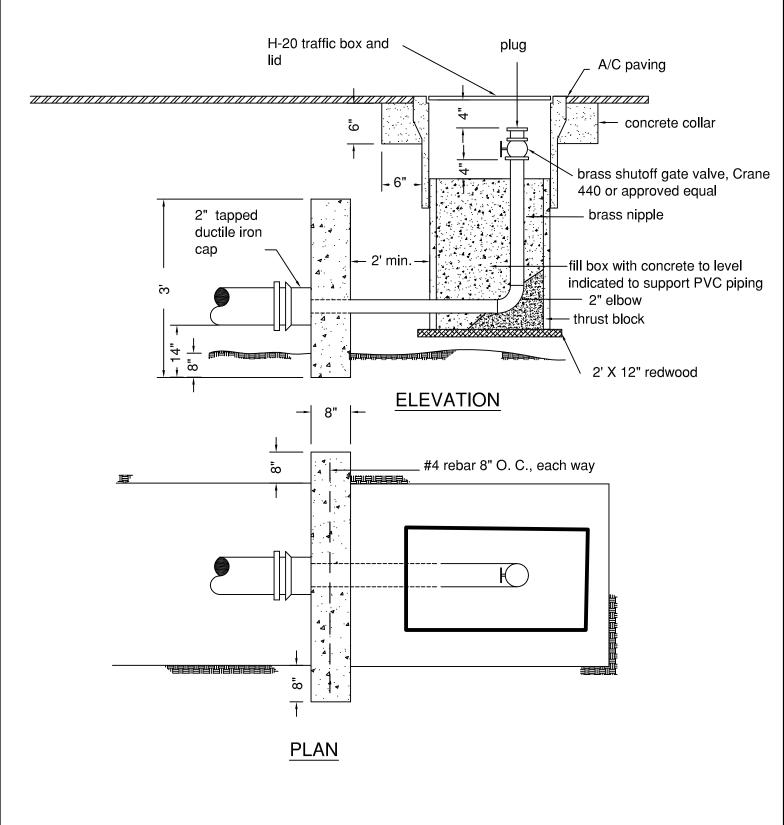
ESTERO MUNICIPAL IMPROVEI	ESTERO MUNICIPAL IMPROVEMENT DISTRICT						
CITY OF FOSTER CITY, CALIFORNIA							
WATER						Description	
FIRE SERVICE				۷:		Dwg No.	Water 15A
REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY				: :		Sheet	1 of 1
APPROVED:		APPROVED:				Scale:	None
CITY/DISTRICT ENGINEE	R	DEPARTMENT SUPERV			VISOR	Date:	JUL. 2015



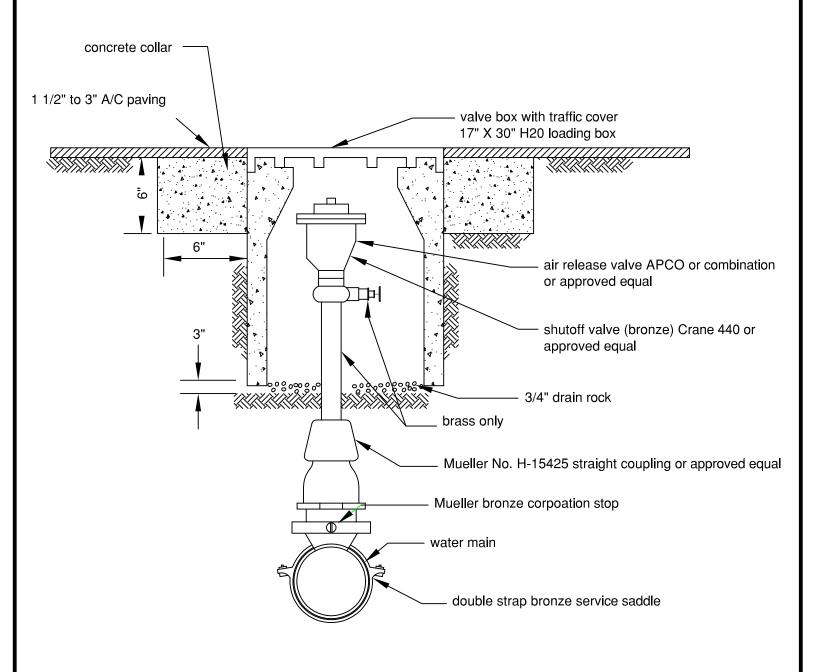


- 1. Fire Sprinkler Riser shall have the same size as the Fire Service. See Standard Detail Water 15A.
- 2. Location shall be coordinated with Fire Department and City Landscape Architect.

EST	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO							
	WATER			Rev DWI	Date V :		Description Dwa No.	Water 15B
FIF	A VALIT		CHK:				1 of 1	
APPROVED:		APPROVED:					Scale:	None
	CITY/DISTRICT ENGINEER		DEPART	MENT	r supi	ERVISOR	Date:	JUL. 2015

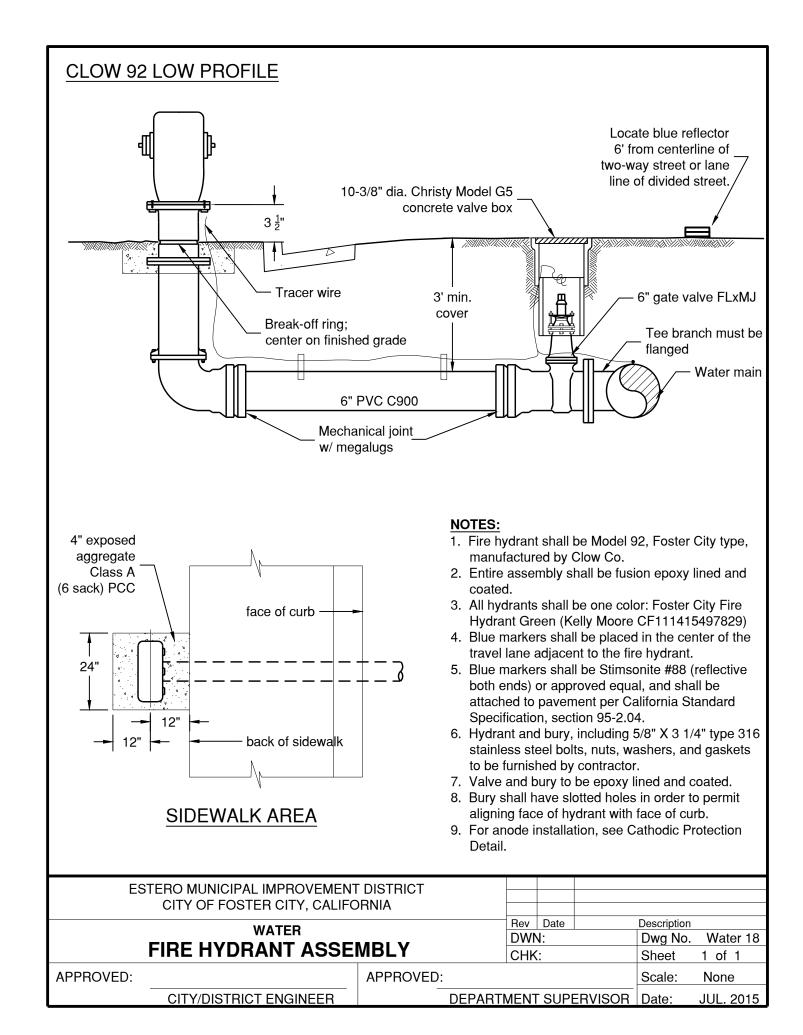


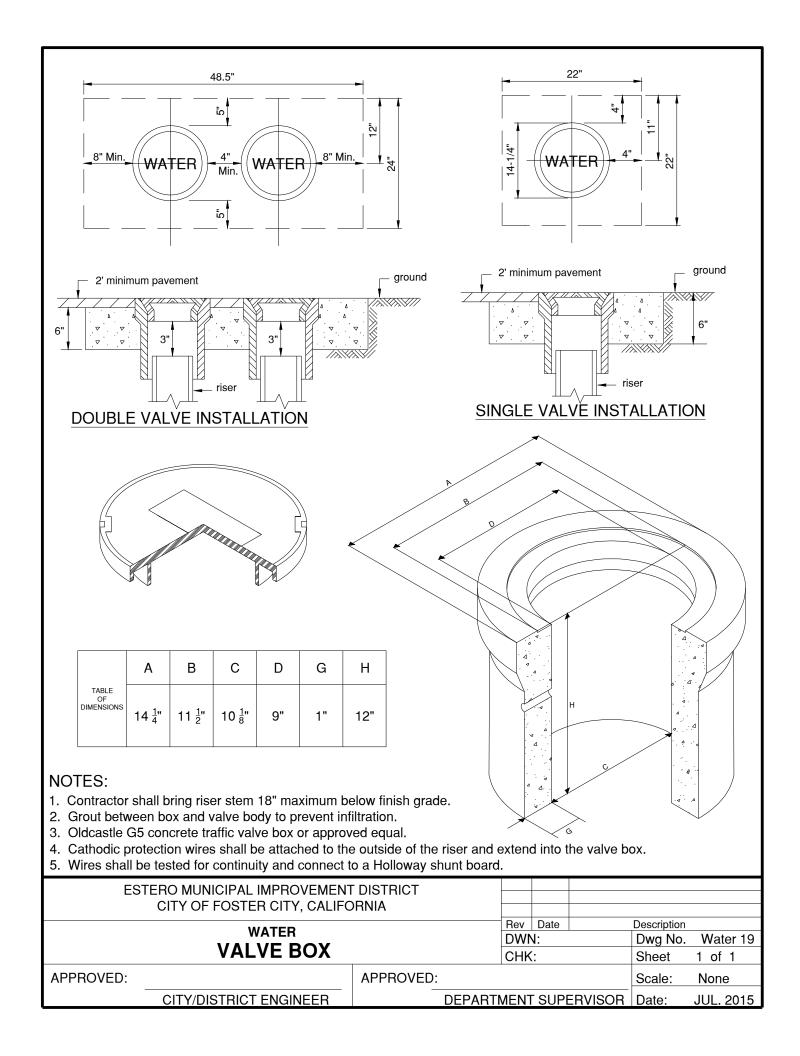
ESTERO MUN	ICIPAL IMPROVEMEN	IT DISTRICT		
CITY OF	FOSTER CITY, CALI	FORNIA		
	WATFR		Rev. Date	Description
ראואייפ	ER BLOWOFI	E	DWN:	NO. Water 16
Z WAI	EN BLOWOFI		CHK:	SHT OF
APPROVED:		APPROVED:		SCALE: NONE
CITY/DIS ⁻	TRICT ENGINEER	DEPARTMEN	NT SUPERINT	ENDENT DATE: Oct. 2007

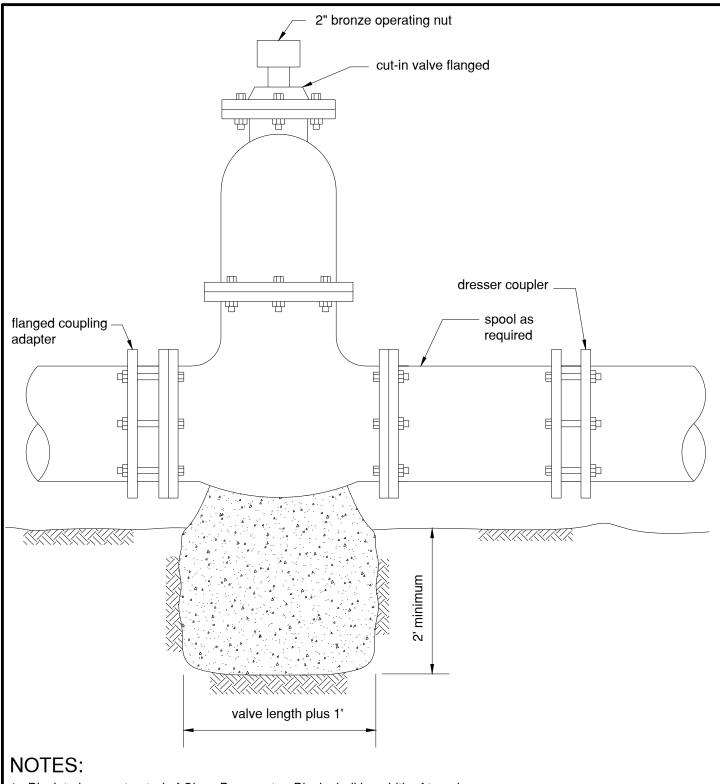


- 1. Valves and boxes are to be located directly over the pipe.
- 2. Double strap bronze service saddles (Mueller, Ford, or approved equal) shall be required on all water main pipes.
- 3. Air release valves are to be factory fusion epoxy lined and coated.

ESTERO MUNICIPAL IMPROVEMEN	IT DISTRICT					
CITY OF FOSTER CITY, CALI						
WATER		Rev.	Date		Descrip [*]	tion
AIR RELEASE VALVE AS	CEMBLY	DWN:		NO. V	Water 17	
AIR RELEASE VALVE AS	SEMBLY	СНК			SHT	OF
APPROVED:	APPROVED:				SCALE:	NONE
CITY/DISTRICT ENGINEER	 DEPARTMEN	IT SU	PERIN	TENDENT	DATE:	Oct. 2007

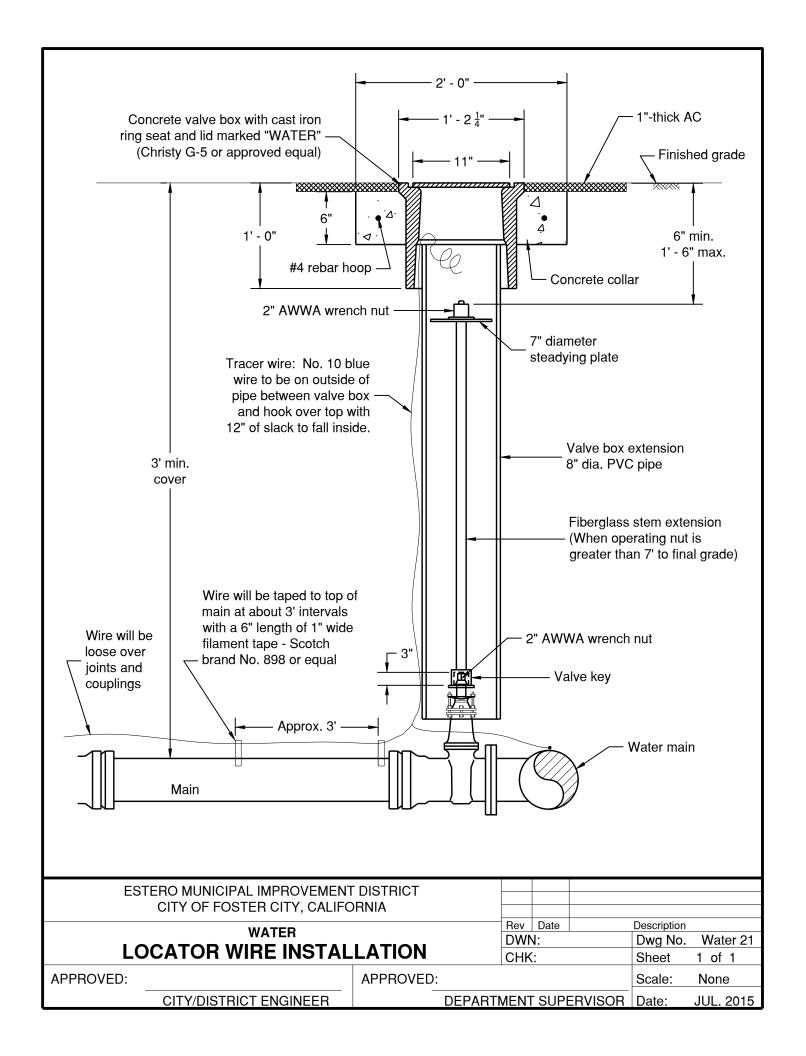






- 1. Block to be constructed of Class B concrete. Block shall be width of trench.
- 2. All valves to be factory hot dipped epoxy lined and coated (10 mil thick).
- 3. All bolts, nuts, and washers to be 316 stainless steel.

EST	ERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO							
	WATER			Rev	Date		Description	
				DWN:			Dwg No.	Water 20
CUT-IN VALVE				CHK:			Sheet	1 of 1
APPROVED:		APPROVED:					Scale:	None
	CITY/DISTRICT ENGINEER		DEPART	MENT	Γ SUPI	ERVISOR	Date:	JUL. 2015



CATHODIC PROTECTION NOTES

GENERAL

1. All burried ferrous metallic pipe, valves, fittings etc. shall be cathodicly protected.

WELDS:

- 1. Wire connections to pipes, valves, fittings etc. shall be made using EXOTHERMIC weld kits.
- 2. Epoxy Coating shall be removed from the surface of the pipe, valve, fitting etc. over an area just sufficient to make the weld.
- 3. Exothermic welds shall be covered with a molded plastic dome filled with corrosion resistant compound (Handy Cap or equal) and secured with 10 mil tape.
- 4. All areas where the epoxy coating has been removed shall be repaired with liquid epoxy.
- 5. Exothermic welds shall not touch each other.

WIRE:

- 1. Wire for test stations shall be solid single conductor copper wire No. 10 or No. 12 AWG as shown.
- 2. Wire for Continuity bonds shall be stranded single conductor copper wire No. 8 AWG.
- 3. All wires shall have a minimum of 24" cover, be free of joints and splices and have at least 18" slack left in the test station.
- 4. Continuity Bond shall be a maximum length of 10 feet.

TEST STATION:

- 1. Test Station shall be installed per standard drawing "Cathodic Protection -- Test Station"
- 2. Test Stations shall have the legend "ANODE" cast on the lid.

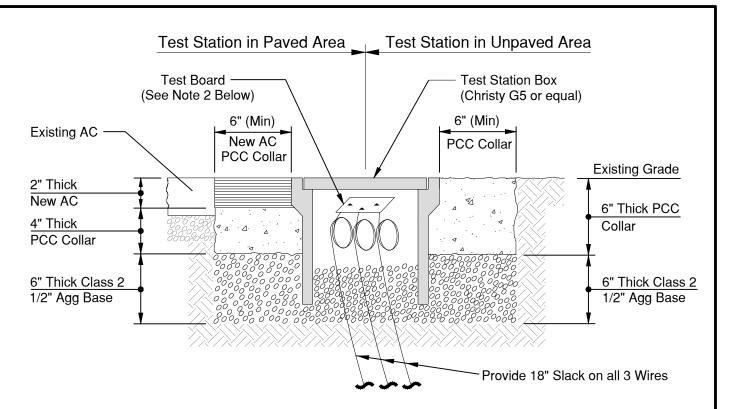
SACRIFICIAL ANODES:

- 1. Sacrificial anodes shall be zinc or magnesium anodes.
- 2. Bare Anode weight per installation shall be 30lbs minimum
- 3. See Cathodic Protection -- Anode Size (Sheet 5) for Anode Weight
- 4. Anode shall be placed a minimum of 3 feet from closest metal object.
- 5. Anode shall be drenched with water prior to backfilling trench.

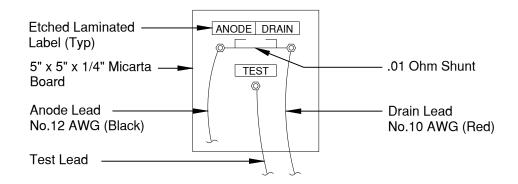
TEST & INSPECTION PROCEDURES:

- 1. City shall test cathodic protection assembly for continuity prior to backfilling of trench.
- 2. Contractor shall provide the City with test data indicating that cathodic protection assembly is operating at an acceptable potential.

EST	DISTRICT DRNIA							
	CITY OF FOSTER CITY, CALIFO			Rev	Date		Description	
0.47	WATER	NOTEO		DWN:			Dwg No.	Water 22
CA	- NOTES	CHK:				Sheet	1 of 1	
APPROVED:		APPROVED:					Scale:	None
-	CITY/DISTRICT ENGINEER	_	DEPARTM	1EN7	SUPE	RVISOR	Date:	JUL. 2015



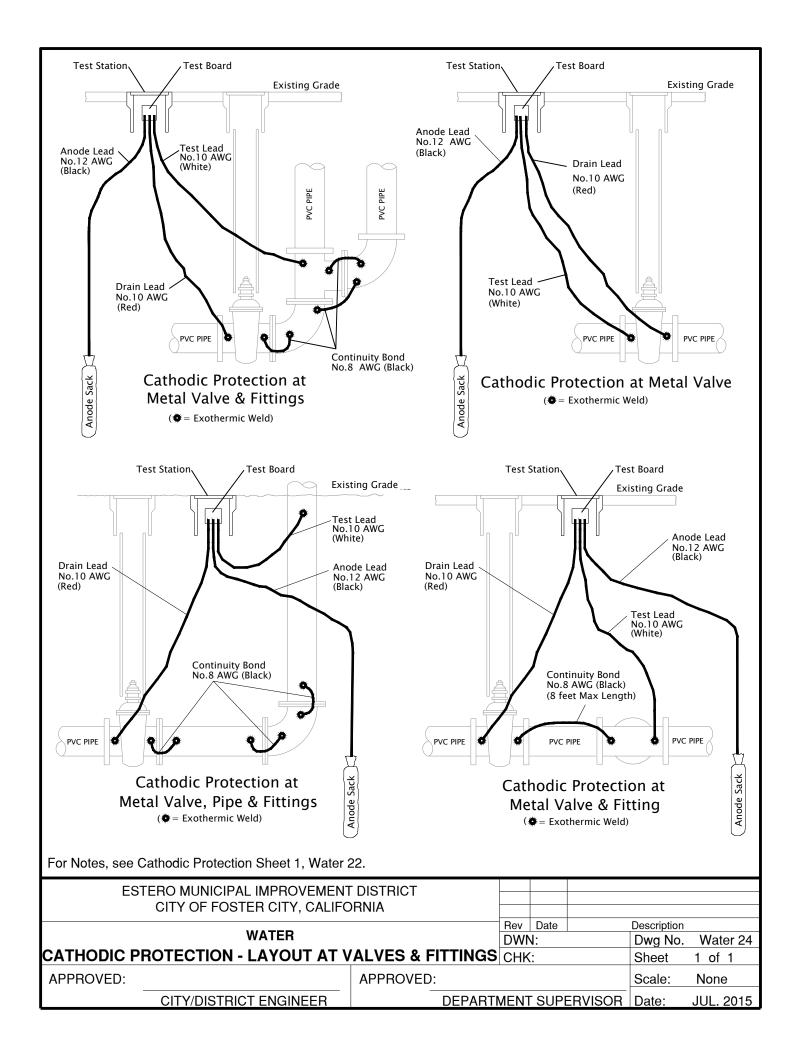
TEST STATION HOUSING DETAIL



No.10 AWG (White) TEST BOARD DETAIL

- 1. For general notes, see Standard Water 22.
- 2. Test board may be:
 - (a) Micrata type as shown above
 - (b) "Big Frank" type station or Engineer-approved equal

APPROVED: APPROVED: Scale: None	EST	ERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO					
				DWI	N:	Dwg No.	Water 23 1 of 1
CITY/DISTRICT ENGINEER DEPARTMENT SUPERVISOR Date: JUL. 2019	APPROVED:	CITY/DISTRICT ENGINEED					None JUL. 2015



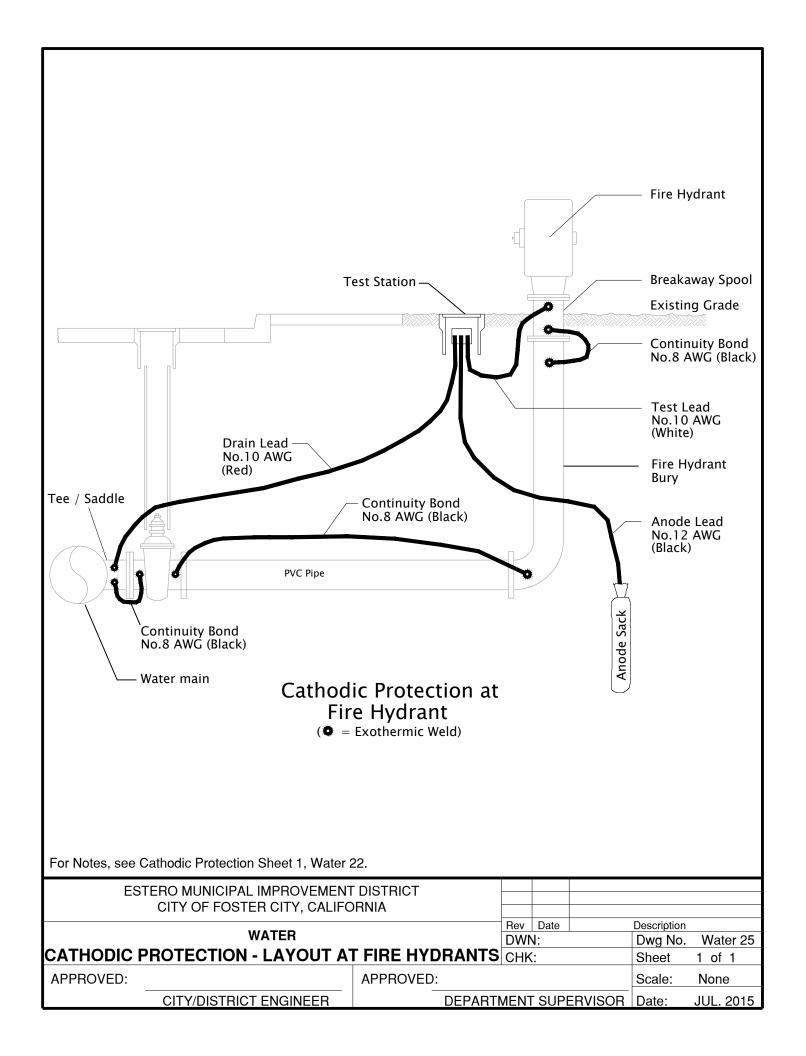


 TABLE 1 (Anode weight in lbs for pipe and fittings)

PIPE SIZE	VALVE	CROSS	TEE *	ELBOW	RT. X FLG ADAPTER	FIRE HYDRANT AND BURY	EACH 36" OF SPOOL LENGTH
4"	1.2	1.5	1.2	1	0.5	-	1
6"	1.8	2.3	1.8	1.5	0.5	3	1.5
8"	2.4	3	2.4	2	0.5	-	2
10"	3	3.8	3	2.5	0.5	-	2.5
12"	3.6	4.5	3.6	3	0.5	-	3
14"	4.2	5.3	4.2	3.5	0.5	1	3.5
16"	4.8	6.0	4.8	4.0	0.5	-	4.0

^{*} Base Weight Required on Largest Outlet

- 1. Bare anode weight per installation shall be 30lbs minimum
- 2. Table 1 indicates the anode weight (lbs) for pipe and fittings
- 3. Weight of Anode shall be rounder UP in 5lb increments

Anode Weight Example 'A'

A configuration contains: 4 -- 12" valves = 14.4lbs (4 x 3.6lbs)

TOTAL

3 -- 12" tee's = 10.8lbs (3 x 3.6lbs)

 $1 -- 12" \text{ cross} = 4.5 \text{lbs} (1 \times 4.5 \text{lbs})$

35.7LBS

 $2 -- 12" \text{ elbows} = 6.0 \text{lbs} \qquad (2 \text{ x 3lbs})$

Example 'A' indicates that the minimum weight of the anode shall be 40lbs

Anode Weight Example 'B'

A configuration contains: 2 -- 6" valves = 3.6lbs (2 x 1.8lbs)

1 -- 6" tee = 1.8lbs (1 x 1.8lbs)

2 -- 6" elbows = 3.0lbs (2 x 1.5lbs)

TOTAL 8.4LBS

Example 'B' indicates that the minimum weight of the anode shall be 30lbs

For Notes, see Cathodic Protection Sheet 1, Water 22.

EST	TERO MUNICIPAL IMPROVEMENT CITY OF FOSTER CITY, CALIFO						
	WATER		Rev	Date		Description	
	******	NODE OUT	DWN:			Dwg No.	Water 26
CATHO	CATHODIC PROTECTION - ANODE SIZE					Sheet	1 of 1
APPROVED:		APPROVED:				Scale:	None
-	CITY/DISTRICT ENGINEER	DEPART	MEN	Γ SUPI	ERVISOR	Date:	JUL. 2015