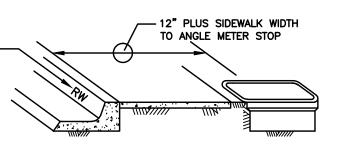


NOTES:

- 1. DO NOT INSTALL SERVICE SADDLE WITHIN 18" OF VALVE, COUPLING, JOINT OR FITTING. TAPPED COUPLINGS ARE NOT PERMITTED.
- 2. INSTALL CORPORATION STOP WITH KEY SIDEWAYS IN OPEN POSITION.
- 3. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR CURB.
- 4. TAPS SHALL BE HOT-TAPPED WITH A TAPPING MACHINE.
- 5. EXTEND WATER SERVICE PERPENDICULAR TO STREET CENTERLINE FROM WATER MAIN TO METER STOP.
- 6. SET METER BOX BEHIND SIDEWALK WHERE SIDEWALK IS ADJACENT TO CURB, OR IN PARKWAY BETWEEN CURB AND SIDEWALK.
- 7. NEW SERVICES SHALL NOT BE SPLICED.
- 8. CLAMP ANODE LEAD WIRE TO COPPER TUBING. CLAMP SHALL BE DIRECT BURIAL TYPE OF RED BRASS WITH BRASS SCREWS AS MANUFACTURED BY DOTTIE, OR ACCEPTED EQUAL.
- 9. NO TWO SERVICES SHALL BE IN SAME MOLE-HOLE.

CHIP 2" "RW" IN CURB FACE-TO IDENTIFY RECYCLED WATER SERVICE LOCATION



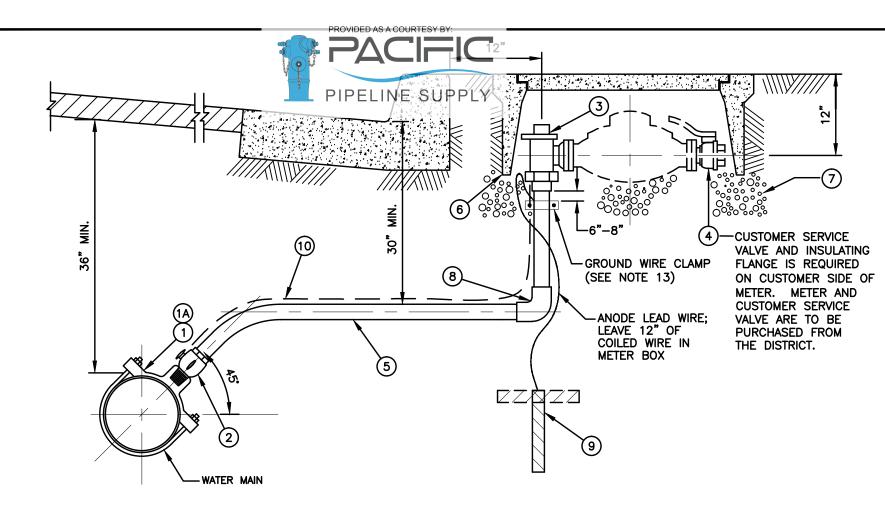
MATERIALS

ITEM NO.	SIZE & DESCRIPTION	SPEC. NO.
1	1" DOUBLE-STRAP BRONZE SERVICE SADDLE W/CC THREAD OUTLET (ACP OR DIP MAINS)	33 12 31
(A)—	1" SINGLE-STRAP 2-BOLT CAST BRONZE SERVICE SADDLE W/SS BOLTS AND W/CC THREAD OUTLET (C900 PVC PIPE MAINS)	33 12 31
2—	1" CC THREAD x FLARE BRONZE CORPORATION STOP	33 12 31
3—	1" LOCKING FLARE x METER NVT BRONZE ANGLE METER STOP	33 12 31
4—	1" METER NUT x FNTP BRONZE CUSTOMER SERVICE VALVE	33 12 31
<u> </u>	1" TYPE K COPPER TUBING	33 11 21
6—	METER BOX W/READING LID	33 12 31
7	6" BASE OF 3/4" ROCK	31 05 16
8—	ZINC ANODE AND LEAD WIRE. PLACE ANODE AT LEAST 2' FROM COPPER TUBING	26 42 00
9—	WARNING TAPE	33 05 26

S	OUTH	COAST	WATER	DISTRICT	STANDARD	DRAWIN	1G
2014		1"	RECYCLE	ED WATER		RW-1	SHEET
2014		EOD	IDDIC ATI	ON SEDVICE	. ∣ [7 7 7 1	1 OF 1

1 OF 1

FOR IRRIGATION SERVICE



NOTES:

- 1. DO NOT INSTALL SERVICE SADDLE WITHIN 18" OF VALVE, COUPLING, JOINT OR FITTING. TAPPED COUPLINGS ARE NOT PERMITTED.
- 2. INSTALL CORPORATION STOP WITH KEY SIDEWAYS IN OPEN POSITION.
- 3. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR CURB.
- 4. MAKE CORPORATION STOP TAP SHALL BE MADE AS RECOMMENDED BY MANUFACTURER OF PIPE BEING TAPPED. MAKE TAPS SHALL BE MADE WITH MACHINE GUIDE OR PILOT TAP.
- 5. EXTEND WATER SERVICE PERPENDICULAR TO STREET CENTERLINE FROM WATER MAIN TO METER STOP.
- 6. SET METER BOX BEHIND SIDEWALK WHERE SIDEWALK IS ADJACENT TO CURB, OR IN PARKWAY BETWEEN CURB AND SIDEWALK.
- 7. COPPER TUBING SPICES SHALL BE SILVER SOLDER CONNECTIONS.
- 8. SWEAT JOINTS SHALL BE SILVER SOLDER (EXCEPT AS NOTED)
- 9. A 2" BYPASS LINE WITH LOCKING CURB STOP MAY BE REQUIRED FOR INSTALLATIONS NEEDING CONTINUOUS SERVICE.
- 10. FOR END OF LINE SERVICE INSTALLATION SEE STD. DWG. W-17.
- 11. CLAMP ANODE LEAD WIRE TO COPPER TUBING. CLAMP SHALL BE DIRECT BURIAL TYPE OF RED BRASS WITH BRASS SCREWS AS MANUFACTURED BY DOTTIE, OR ACCEPTED EQUAL.
- 12. SET METER BOX ADJACENT TO AND BEHIND SIDEWALK FOR 4' WIDE WALKS ADJACENT TO CURB.
- 13. A MINIMUM OF 5 x PIPE DIAMETER IS REQUIRED UPSTREAM OF BALL VALVE FOR ANY FITTINGS. A MINIMUM OF 2 x PIPE DIAMETERS IS REQUIRED DOWNSTREAM OF THE BRONZE CUSTOMER SERVICE FOR ANY FITTINGS.
- 14. RPPD TO BE INSTALLED DOWNSTREAM OF METER (SEE W-15).

BRONZE BOLTS

Dittorial Delie	
METER SIZE	BOLT SIZE
1½" 2"	5/8"x3" 3/4"x2½"

CHIP 2" "W" IN CURB FACE TO
IDENTIFY POTABLE WATER
SERVICE LOCATION

ITELA

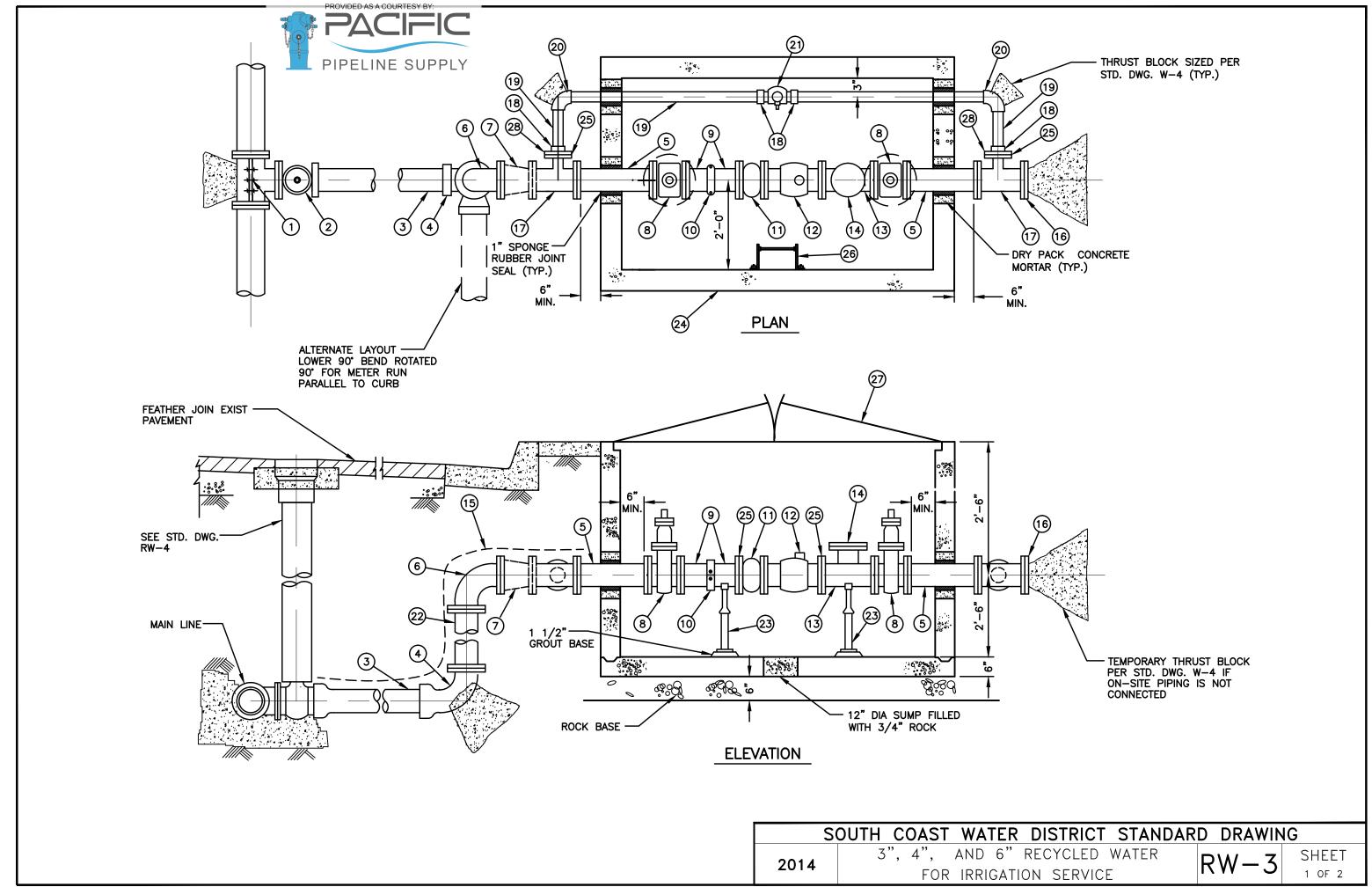
MATERIALS

NO.	SIZE & DESCRIPTION	SPEC.	NO.
1	2" DOUBLE-STRAP BRONZE SERVICE SADDLE W/CC THREAD OUTLET (ACP OR DIP MAINS)	33 12	31
1A) —	2" CAST BRONZE SERVICE SADDLE W/ CC THREAD OUTLET (C900 PVC PIPE MAINS)	33 12	31
2—	2" CC THREAD x FNTP BRONZE BALL CORPORATION STOP	33 12	31
3—	2" LOCKING FLARE x FLG BRONZE ANGLE METER BALL STOP	33 12	31
4—	2" FLG x FNTP BRONZE CUSTOMER SERVICE BALL VALVE	33 12	31
5—	2" TYPE K COPPER TUBING	33 11	21
6—	METER BOX WITH READING LID	33 12	31
7	6" BASE OF 3/4" ROCK	31 05	16
8—	2" SWEAT x SWEAT COPPER 90" ELL	33 11	21
9—	ZINC ANODE AND LEAD WIRE. PLACE ANODE AT LEAST 2' FROM COPPER TUBING	26 42	00
10 —	WARNING TAPE	33 05	26

2014 COAST WATER DISTRICT STANDARD DRAWING

2" RECYCLED WATER
FOR IRRIGATION SERVICE

RW-2 SHEET
1 OF 1





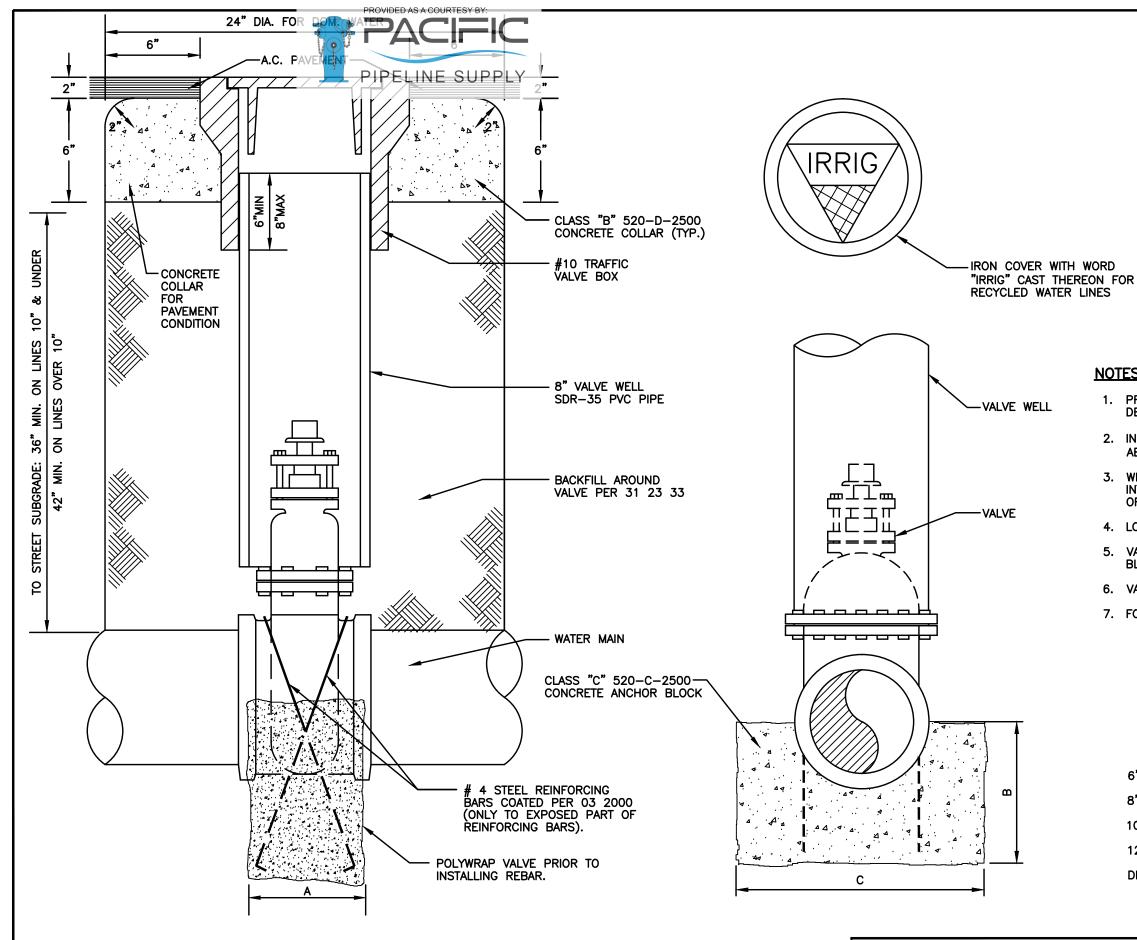
MATERIALS

ITEM	QUANTITY	DESCRIPTION	SPEC	NO.
1		IZE x 4" (FOR 3" & 4" METERS) OR 6" TAPPING SLEEVE OR IZE x 4" (FOR 3" OR 4" METERS) OR x PO x PO D.I.P. TEE IF HOT TAP NOT REQUIRED	33 12 33 11	
② <u> </u>		6" FLG x PO TAPPING VALVE OR 6" FLG x PO RW GATE VALVE IF HOT TAP NOT REQUIRED	33 12 33 12	
3_		6" PO x PO D.I.P. OR PVC LATERAL 6" PO x PO PVC LATERAL	33 11 33 11	
(4) —	-1 EACH —4" OR	6" PO x FLG D.I.P. 90° ELL	33 11	11
(5)—	-2 EACH —METER	SIZE x 2'-6" LONG FLG x FLG D.I.P. SPOOL	33 11	11
<u>(6)</u> —	-1 EACH4" OR	6" FLG x FLG D.I.P. 90" ELL	33 11	11
(7)—	-1 EACH4" x 3'	" FLG x FLG D.I.P. REDUCER (FOR 3" METER ONLY)	33 11	11
(8)—	-3 EACH ——3", 4"	OR 6" FLG x FLG RW GATE VALVE	33 12	12
<u> </u>	-2 EACH ——3", 4"	OR 6" x 6" LONG FLG x GROOVED CL 53 D.I.P. SPOOL	33 11	11
(10)—	-2 EACH ——3", 4"	OR 6" GROOVED COUPLING	33 05	34
(1)—	-1 EACH ——3", 4"	OR 6" FLG x FLG BASKET STRAINER	33 12	30
(12)—	-1 EACH ——3", 4"	OR 6" FLG x FLG TURBINE METER	33 12	33
13—	-1 EACH3", 4"	OR 6" FLG x FLG x FLG D.I.P. TEE (MATCH METER SIZE)	33 11	11
14)—	-1 EACH ——3", 4"	OR 6" BLIND FLANGE TAPPED FOR 2-1/2" IP	33 11	11
15)—	-AS REQ'D WARNING	G TAPE	33 05	26
16—	-1 EACH ——3", 4"	OR 6" D.I.P. BLIND FLANGE	33 11	11
17)—	-2 EACH ——3", 4"	OR 6" x 2" OUTLET FLG x FLG x FLG D.I.P. TEE (MATCH METER SIZE)	33 11	11
18)—	-4 EACH2" MNT	P x SWEAT	33 11	21
19—	-AS REQ'D — 2" TYPE	E K COPPER TUBING	33 11	21
<u> 20</u> —	-2 EACH2" SWE	AT x SWEAT 90° ELL	33 11	21
21)—	-1 EACH —2" FNTF	P x FNTP BALL VALVE WITH LOCKING WING	33 12	31
22—	-1 EACH ——3", 4"	OR 6" FLG x FLG D.I.P. SPOOL IF REQ'D (MATCH METER SIZE)	33 11	11
23—	-2 EACH —ADJUSTA	ABLE PIPE SUPPORT SEE STD. DWG. W-19	33 05	38
24)—	-1 EACH —PRECAS	T CONCRETE VAULT 5'-0" W x 6'-6" L x 5'-0" H	33 05	16
25—	-2 EACH —FLANGE	INSULATING KIT	33 05	32
26—	-1 EACH —LADDER	& SS ANCHOR BOLTS	05 51	00
27 —	RECESS	N-SPRING ASSIST DIAMOND PLATE ALUMINUM COVER AND SED LOCKING HASP. CENTER 6" x 12" HINGED READING SER METER REGISTER	05 51	00
28—	-2 EACH ——3", 4"	OR 6" BRONZE COMPANION FLANGE WITH 2" FNTP OUTLET	33 11	21

NOTES:

- 1. VAULT IS FOR PARKWAY USE ONLY. FOR TRAFFIC LOADING AND OTHER REQUIREMENTS, CONTACT DISTRICT REPRESENTATIVE.
- 2. VAULT COVER TO BE SET TO CONFORM TO PARKWAY GRADE.
- 3. CONCRETE SHALL BE CLASS B.
- 4. FOR SIZE 8" & 10" TURBO METER, REFER TO DISTRICT ENGINEER.
- 5. AN RPPD TO BE INSTALLED DOWNSTREAM OF METER (SEE W-15).

	SOUTH COAST	WATER	DISTRICT	STANDARD	DRAWIN	١G
2014	3", 4",	& 6" RE	CYCLED WA	TER	RW-3	SHEET
2014	FOR	IRRIGATIO	N SERVICE		7 VV — 3	2 OF 2



NOTES:

- 1. PROVIDE VALVE STEM EXTENSION CONFORMING TO 33 05 39 IF DEPTH TO VALVE NUT EXCEEDS 4 FEET. SEE NOTE 2.
- 2. IN NEW TRACT DEVELOPMENTS EXTEND VALVE WELL PIPE 2' ABOVE GROUND ON "KEY VALVES" FOR EMERGENCY SHUTOFFS.
- 3. WHERE CONCRETE CROSS GUTTERS AT STREET INTERSECTIONS INTERFERE WITH VALVE BOXES, RELOCATE PIPELINE TO 7 FEET OFF CURB FACE TO CLEAR CROSS GUTTER.
- 4. LOCATE VALVES ADJACENT TO FITTINGS WHEREVER POSSIBLE.
- VALVES BOLTED TO FITTINGS SHALL NOT REQUIRE ANCHOR BLOCKS.
- 6. VALVE BOX AND COVER SHALL CONFORM TO 33 05 39.
- 7. FOR RECYCLED WATER, PAINT IRON COVER PURPLE.

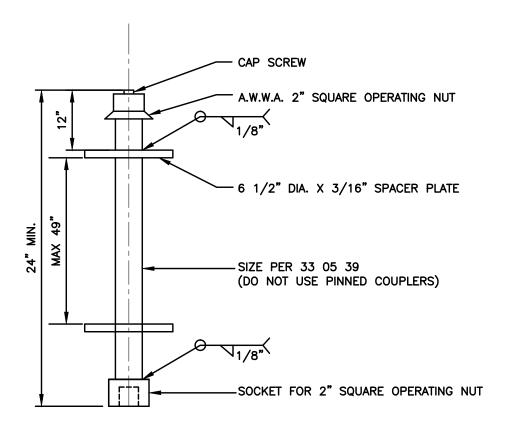
VALVE_SIZE	DIMENSION	<u> </u>
6" OR SMALLER	<u>A</u> 12"	<u>B</u> 12"
8"	13"	14"
10"	14"	16"
12"	14"	18"
DIMENSION "C"= TRENCH WIDTH PLUS 2X	PIPE DIAMETER	

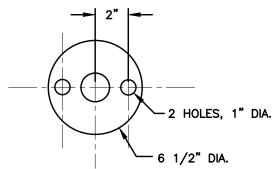
SOUTH COAST WATER DISTRICT STANDARD DRAWING

2014

VALVE BOX ASSEMBLY







SPACER PLATE

PLAN

NOTES:

- 1. FABRICATE EXTENSION TO FIELD MEASUREMENT SEE NOTE 2
- 2. NO VALVE STEM EXTENSION SHALL BE LESS THAN 2 FEET IN LENGTH. TERMINATE EXTENSION 24" FROM FINISHED GRADE.
- PROVIDE ADDITIONAL SPACER PLATE WHEN DISTANCE TO BOTTOM SOCKET EXCEEDS 5 FEET.

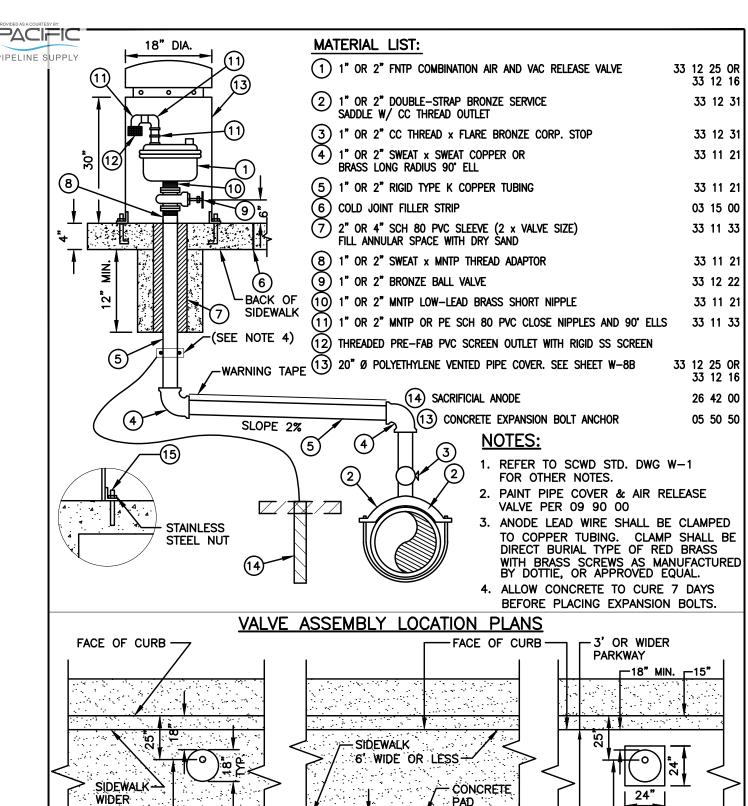
SOUTH COAST WATER DISTRICT STANDARD DRAWING

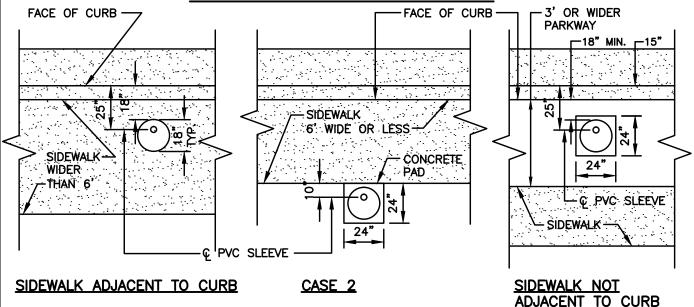
2014

VALVE EXTENSION

RW-4

SHEET 2 OF 2

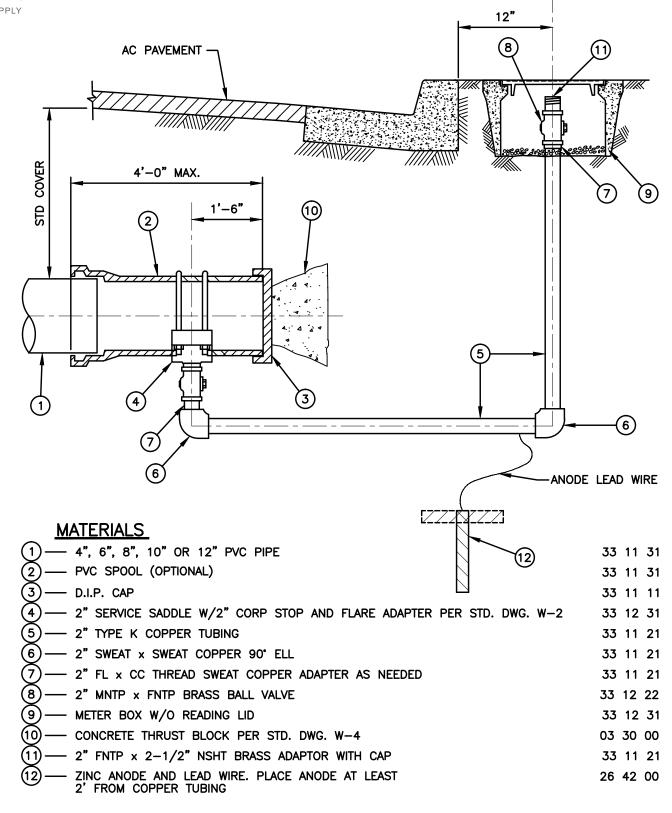




SOUTH COAST WATER DISTRICT STANDARD DRAWING

1" AND 2" AIR RELEASE VALVE INSTALLATION RW-52014



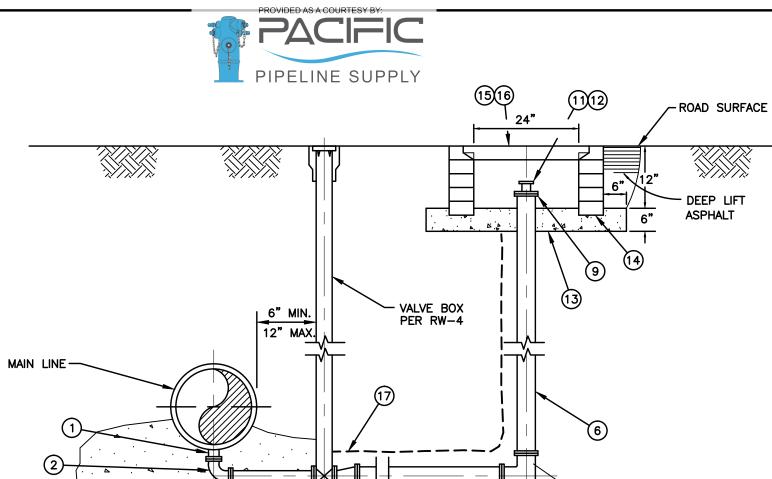


* NOTE: IF METER BOX IS IN TRAFFIC, BOX AND LID MUST BE TRAFFIC RATED.

COLITH COAST WATER DISTRICT STANDARD

3	OOIH COAS	IWAILK	וטואוכוע	STANDAKI	U UKAWII	16
2014	2"	BLOW-OFF	ASSEMBLY	(RW-6	SHEET

DDAWING



6

CONC. SUPPORT CLASS B

MAIN LINE TEE 4" FLG x FLG D.I.P. SPOOL 4" FLG x FLG D.I.P. SPOOL

FOR MAIN SIZES GREATER THAN 18"

MATERIALS

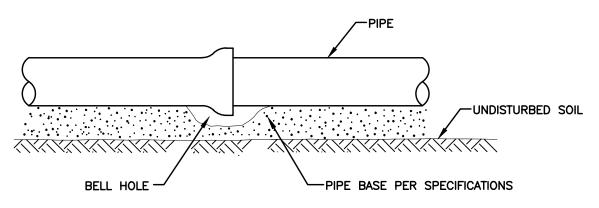
ITEM NO.	SIZE & DESCRIPTION	SPEC. NO.
<u> </u>	PO x PO x FLG D.I.P TEE	33 11 11
2—	4" FLG x FLG D.I.P. 90" ELL	33 11 11
3—	4" FLG x FLG D.I.P. SPOOL	33 11 11
4—	4" FLG x FLG RW GATE VALVE	33 12 12
<u> 5</u> —	8" x 4" FLG x FLG D.I.P. REDUCER	33 11 11
6—	8" FLG x FLG D.I.P. SPOOL	33 11 11
7—	8" x 8" D.I.P. TEE	33 11 11
8—	8" BLIND FLG	33 11 11
9—	8" BLIND FLG W/ 3" TAP	
10—	3" x 2-1/2" DIELECTRIC BUSHING	33 05 52
11)—	2-1/2" MNTP x NSHT BRASS HOSE ADAPTOR (POTTER ROEMER 2830)	33 11 21
12—	2-1/2" NSHT CAP AND CHAIN	33 11 21
13—	36" x 36" CLASS B (520-A-2500) CONCRETE BASE	03 30 00
14)—	24" ID STANDARD MANHOLE RINGS	33 39 13
<u> 15</u> —	24" MANHOLE COVER	33 39 13
16—	DISTRICT MAY ACCEPT SUBSTITUTION OF 12" x 24" METER BOX WHERE SPACE FOR MANHOLE COVER IS NOT AVAILABLE	33 12 31
17)—	WARNING TAPE	33 05 26

SOUTH COAST WATER DISTRICT STANDARD DRAWING

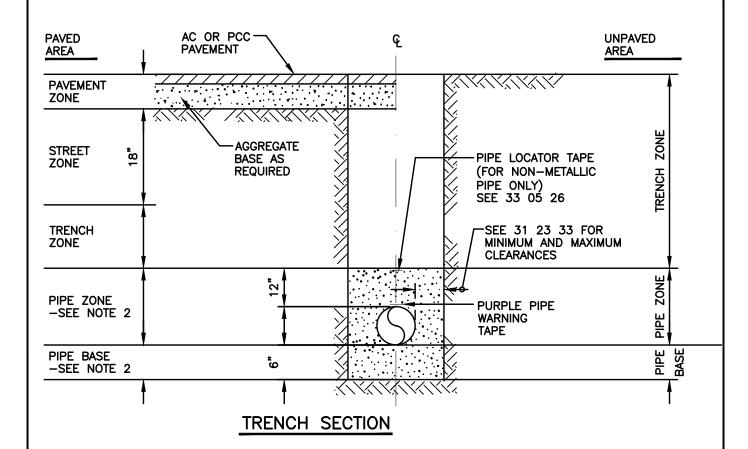
2014 4" BLOW-OFF ASSEMBLY

RW-7 SHEET





BELL HOLE PROFILE



NOTES:

SEE STANDARD DRAWING W-8B, SHEET 2 OF 2, FOR TRENCH SECTION NOTES. SEE 31 23 33 FOR COMPACTING REQUIREMENTS

CALITI	\triangle	WATED	DICTDICT	STANDARD	
SUULH	\cup	WAIFR	INSIRIGI	SIANDARD	IJRAWING
	00/101	**/			

2014 TRENCH SECTION

8—W۶



TRENCH SECTION NOTES:

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH 21 23 33.
- 2. IMPORTED SAND BACKFILL, COMPACTED TO 90 PERCENT, SHALL BE USED FOR THE PIPE BASE AND AS BACKFILL WITHIN THE PIPE ZONE.
- 3. SEE 31 23 33 FOR MINIMUM SIDE CLEARANCE REQUIREMENTS.
- 4. VERTICAL TRENCH WALLS:
 - A) FOR DEPTHS UP TO 3'-6", NO TRENCH SUPPORT IS REQUIRED UNLESS UNSTABLE OR RUNNING SOIL IS ENCOUNTERED.
 - B) FOR DEPTHS EXCEEDING 3'-6", SHORING OR SOLID SHEETING SHALL COMPLY WITH THE CAL/OSHA CONSTRUCTION SAFETY ORDERS.
- 5. OPTIONAL COMBINATION OF VERTICAL AND SLOPING TRENCH WALLS:
 - A) TRENCH DEPTH EXCEEDING 3'-6" SHALL HAVE VERTICAL WALLS IN PIPE ZONE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - B) FOR TRENCHES WITH COMBINED WALL AND ANY DEPTH EXCEEDING 3'-6", THE CONTRACTOR SHALL PROTECT IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (CAL/OSHA) CODE OF REGULATIONS TITLE 8, SUBCHAPTER 4 "CONSTRUCTION SAFETY ORDERS".
- ALL EXCAVATIONS AND TRENCHES SHALL CONFORM TO THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (CAL/OSHA) CODE OF REGULATIONS TITLE 8, SUBCHAPTER 4 "CONSTRUCTION SAFETY ORDERS".
- 7. SEE 33 23 33 FOR BEDDING AND BACKFILL MATERIAL REQUIREMENTS.
- 8. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED IN 8 MIL POLYETHYLENE.
- 9. INSTALL PVC PIPE SO LETTERING FACES UP.
- 10. LOCATE RECYCLED WATER TAPE ON TOP OF ALL BURIED LINES USING PURPLE TAPE WITH BLACK LETTERS STATING:

"CAUTION: RECYCLED WATER BURIED BELOW"

ALSO USE TAPE TO FIT SIZE OF PIPE SUCH AS 2" TAPE FOR 2" PIPE, 3" TAPE FOR 3" PIPE. ETC.

11. DO NOT USE THE ABOVE TAPE ON LINES THAT ARE INSTALLED WITH "PURPLE C-900 PIPE".

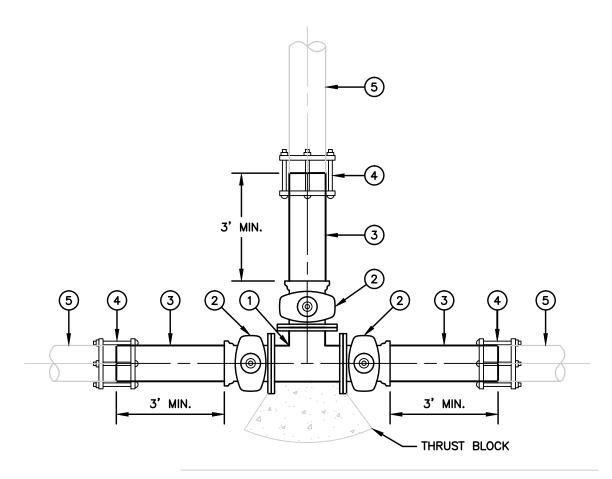
SOUTH COAST WATER DISTRICT STANDARD DRAWING

2014 TRENCH SECTION

8-W

SHEET 2 OF 2





ITEMS: SPEC NO.

FLG x FLG x FLG D.I.P. TEE

33 11 11

FLG x PO RW GATE VALVE

33 12 12

BEVELED END JOINING VALVE x PE DR-14 PVC (C900) PIPE

33 11 31

CAST BOLTED SLEEVE-TYPE COUPLING FOR IDENTICAL OR DIFFERENT PIPE MATERIALS ON EACH SIDE

33 05 33

(5) EXISTING PIPE

NOTES:

- 1. ALL NUTS AND BOLTS MUST BE STAINLESS STEEL.
- 2. TEES, VALVES AND ALL FITTINGS MUST BE DOUBLE WRAPPED IN 8 MIL POLYETHYLENE.
- 3. PURPLE WARNING TAPE TO BE INSTALLED.
- 4. SEE W-5 FOR TRENCH DETAILS.
- 5. SEE W-4 FOR FURTHER THRUST BLOCK DETAILS.
- 6. SEE W-4 FOR VALVE BOX ASSEMBLY AND VALVE EXTENSION.

SOUTH COAST WATER DISTRICT STANDARD DRAWING

CUT-IN TEE AND VALVES 2014