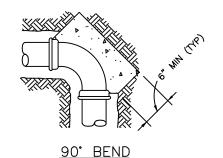
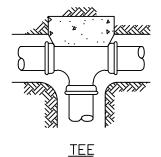
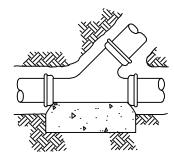


- 1. A.C. PAVEMENT TO COMPLY WITH STREET PAVEMENT REQUIREMENTS.
- 2. FOR VALVE BOXES INSTALLED IN NON-TRAFFIC AREAS, CONCRETE COLLAR SHALL BE EXTENDED TO FINISH GRADE. SLOPE COLLAR TO DRAIN AWAY FROM LID.
- 3. RISER PIPE TO BE ONE CONTINUOUS PIECE OF PVC.
- 4. VALVE BOX COVERS FOR RECYCLED WATER MAINS SHALL BE TRIANGULAR WITH "RW-DSRSD" INSCRIPTION CAST ON THE TOP SURFACE.
- 5. VALVE BOX COVERS FOR RW WATER MAINS SHALL BE POWDER COATED.

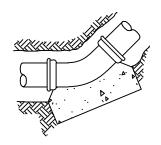
Dublin San Ramon Services District	REVISION DATE JUN 2020
VALVE BOX INSTALLATION	REVISED BY
VALVE BOX INSTALLATION	BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W — 1

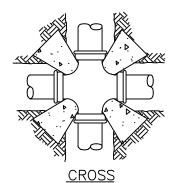






<u>WYE</u>





15# FELT

DATE

TYPICAL SECTION THROUGH THRUST BLOCK

45° BEND

REQUIRED AREA FOR THRUST BLOCK (SQ. FT.) BASED ON ALLOW. SOIL BEARING VALUE OF 2000 psf

PIPE DIA.	90°	45° & WYE	22 1/2*	11 1/4°	B.O. & PLUG	TEE	CROSS
4	1.5	1.0	0.5	ı	1.0	1.0	1.0
6	4.0	2.5	1.5	1.0	3.0	3.0	2.5
8	7.5	4.0	2.0	1.0	5.0	5.0	2.55
10	11.5	6.5	3.5	2.0	8.0	8.0	4.0
12	16.0	9.0	4.5	2.5	11.5	11.5	6.5
16	29.0	16.0	8.0	4.0	20.0	20.0	11.0
18	37.0	29.0	10.0	5.0	26.0	26.0	13.0

MULTIPLIERS FOR THRUST BLOCK AREAS

ACTUAL SOIL BEARING VALUE	MULTIPLIER
1000 psf	2.0
1500 psf	1.33
2000 psf	1.0
2500 psf	0.8
3000 psf	0.67

NOTES:

1. ALL THRUST BLOCKS TO BE PLACED AGAINST UNDISTURBED EARTH.

PLUG

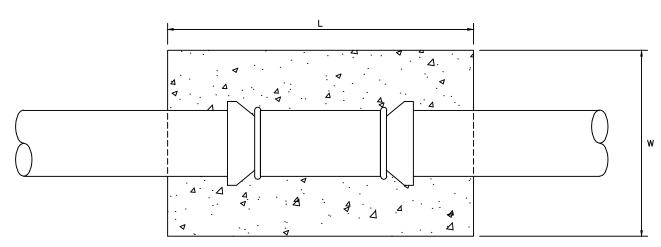
- 2. THRUST BLOCKS SHALL BE CLASS B CONCRETE.
- 3. 15# ROOFING FELT TO BE PLACED BETWEEN PLUG AND THRUST BLOCK CONCRETE.
- 4. SEVEN DAY CURE TIME REQUIRED PRIOR TO FILLING OR PRESSURING MAINS.
- 5. THRUST BLOCKS SHALL BE FORMED BEYOND UNDISTURBED EARTH.

REV. 09/06

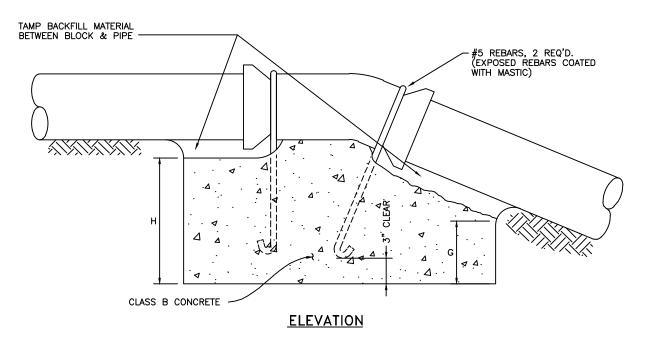
EXAMPLE

ACTUAL SOIL BEARING VALUE = 1000 psf FOR 8" BLOW OFF REQUIRED AREA IS (2.0)(5.0 SQ. FT.) = 10.0 SQ. FT.

Dublin San Ramon Services District	MAY 1987
CONCRETE THRUST BLOCKS	DESIGNED RMR
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-2



<u>PLAN</u>

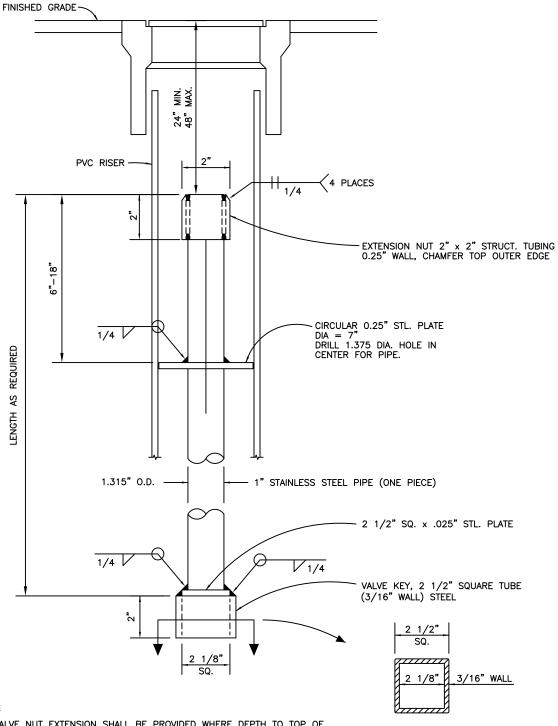


THRUST BLOCK DIMENSIONS ~ UPWARD THRUST

PIPE	/			2.	2 1/2	BEN	ID		45°	BEND		
SIZE	L	W	Н	G	L	W	Н	G	L	W	Н	G
4"	2'-0"	2'-0"	1'-0"	9"	2'-0"	2'-0"	1'-0"	9"	2'-0"	2'-0"	2'-0"	6"
6"	2'-0"	2'-0"	1'-0"	9"	2'-0"	2'-0"	2'-0"	1'-0"	3'-0"	2'-0"	2'-0"	6"
8"	2'-0"	2'-0"	1'-0"	9"	3'-0"	2'-0"	2'-0"	1'-0"	4'-6"	2'-0"	3'-0"	6"
10"	3'-0"	2'-0"	2'-0"	1'-8"	5'-0"	3'-0"	2'-0"	1'-0"	6'-0"	2'-0"	3'-8"	8"
12"	3'-0"	2'-0"	2'-0"	1'-8"	5'-0"	3'-0"	2'-0"	1'-0"	7'-0"	2'-6"	4'-0"	8"

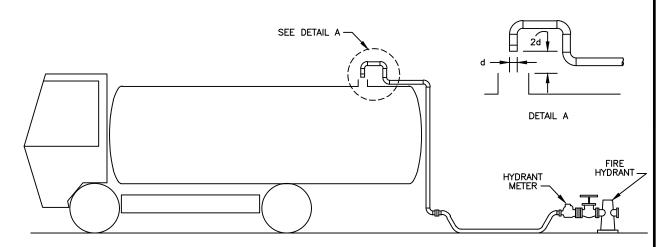
REV. 08/01

Dublin San Ramon Services District	DATE MAY 1987
CONCRETE THRUST BLOCKS FOR VERTICAL BENDS	DESIGNED SAD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-3

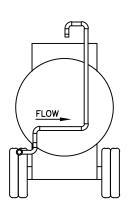


- VALVE NUT EXTENSION SHALL BE PROVIDED WHERE DEPTH TO TOP OF VALVE IS 4' OR MORE.
- 2. LENGTH OF EXTENSION IN INCHES SHALL BE INSCRIBED WITH AN ARC WELD BEAD (MIN. OF 2" IN HEIGHT) ON TOP FACE OF CIRCULAR PLATE.
- 3. VALVE KEY SHALL FIT OVER STANDARD 2" VALVE OPERATING NUT.
- 4. EXTENSION NUT AND VALVE KEY TO BE IN ALIGNMENT WITH EACH OTHER.

Dublin San Ramon Services District	DEC 2019
VALVE NUT EXTENSION	REVISED BY KP
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-4

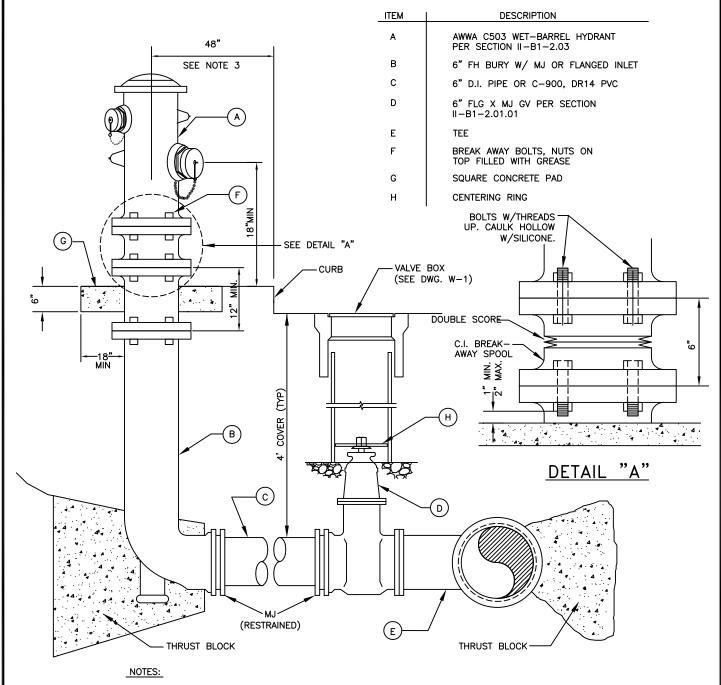


AIR GAP SEPARATION



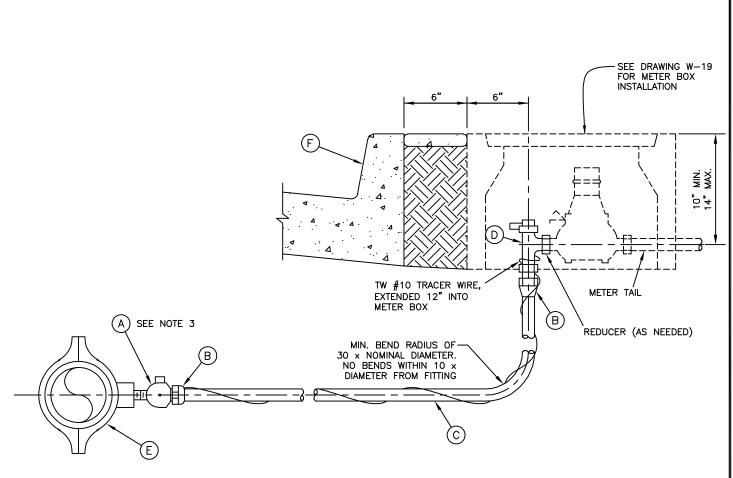
- 1. ALL PIPING PRIOR TO AIR GAP MUST BE MOUNTED PERMANENTLY TO THE EXTERIOR OF THE TANK, AND CLEARLY VISIBLE.
- 2. AIR GAP MUST BE AT LEAST (2) TIMES THE FILL PIPE DIAMETER FROM THE OVERFLOW RIM BUT IN NO CASE LESS THAN A (1) INCH MINIMUM GAP. (SEE DETAIL A)
- 3. NO INTERNALLY MOUNTED AIR GAP PIPING IS PERMITTED.
- 4. OBTAIN HYDRANT METER FROM DSRSD.

Dublin San Ramon Services District	REVISION DATE MAR 2012
BACKFLOW PREVENTION METHOD FOR TANKER TRUCKS AND PORTABLE SPRAY RIGS	REVISED BY BCD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-5



- ON MAINS WHERE VALVES ARE TO BE INSTALLED ADJACENT TO TEES OR CROSSES, THE VALVES SHALL BE FLANGED X MJ WITH FLANGED END BOLTED DIRECTLY TO THE TEE OR CROSS.
- 2. VALVE DISTANCE IN FEET TO BE MARKED ON CURB.
- 3. SEE PLANS AND SPECIFICATIONS FOR LOCATION OF HYDRANTS. REFER TO SECTION II—B2—5.01 FOR PLACEMENT OF FIRE HYDRANTS BEHIND CURBS AND SIDEWALKS.
- 4. REFER TO SECTION II-A7 FOR CLEARANCE BETWEEN HYDRANT AND FIXED OBJECTS.
- 5. REFER TO SECTION II-B1-2.03 FOR HYDRANT EXTERIOR PAINT REQUIREMENTS.
- ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI—SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.
- 7. TRACER WIRE SHALL BE INSTALLED ON ALL FIRE HYDRANT RUNS.

Dublin San Ramon Services District	REVISION DATE JUN 2020
FIRE HYDRANT INSTALLATION	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	drawing W—6

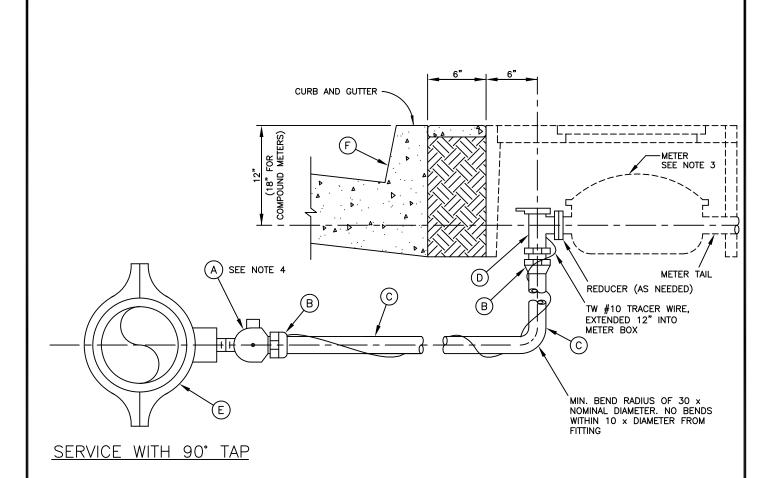


SERVICE WITH 90' TAP W/ POLYETHYLENE

ITEM	DESCRIPTION
Α	BRONZE CORPORATION STOP
в	BRONZE COMPRESSION JOINT
С	POLYETHYLENE TUBING WITH TRACER WIRE (BLUE HDPE FOR POTABLE AND PURPLE HDPE FOR RECYCLED WATER)
D	BRONZE ANGLE CURB STOP W/WING LOCK
E	BRONZE SERVICE SADDLE PER SECTION II-B1-2.08
F	FACE OF CURB MARKED "W" FOR POTABLE WATER AND "RW" FOR RECYCLED WATER.

- THE SERVICE LINE SHALL REST ON UNDISTURBED EARTH IN THE BOTTOM OF THE TRENCH WITH A 36" MINIMUM COVER IN THE RUN BETWEEN THE MAIN AND THE CURB.
- 2. FOR METER BOX INSTALLATION SEE DWG W-19.
- 3. STAINLESS STEEL INSERT STIFFENERS SHALL BE USED AT CORP. AND ANGLE STOPS IN POLYETHYLENE SERVICE LINES WHEN RECOMMENDED BY THE FITTING MANUFACTURER.
- 4. COLOR OF POLYETHYLENE TUBING SHALL BE: BLUE FOR POTABLE WATER SERVICE PURPLE FOR RECYCLED WATER SERVICE

Dublin San Ramon Services District	REVISION DATE NOV 2019
1" SERVICE INSTALLATION	REVISED BY KP
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-7

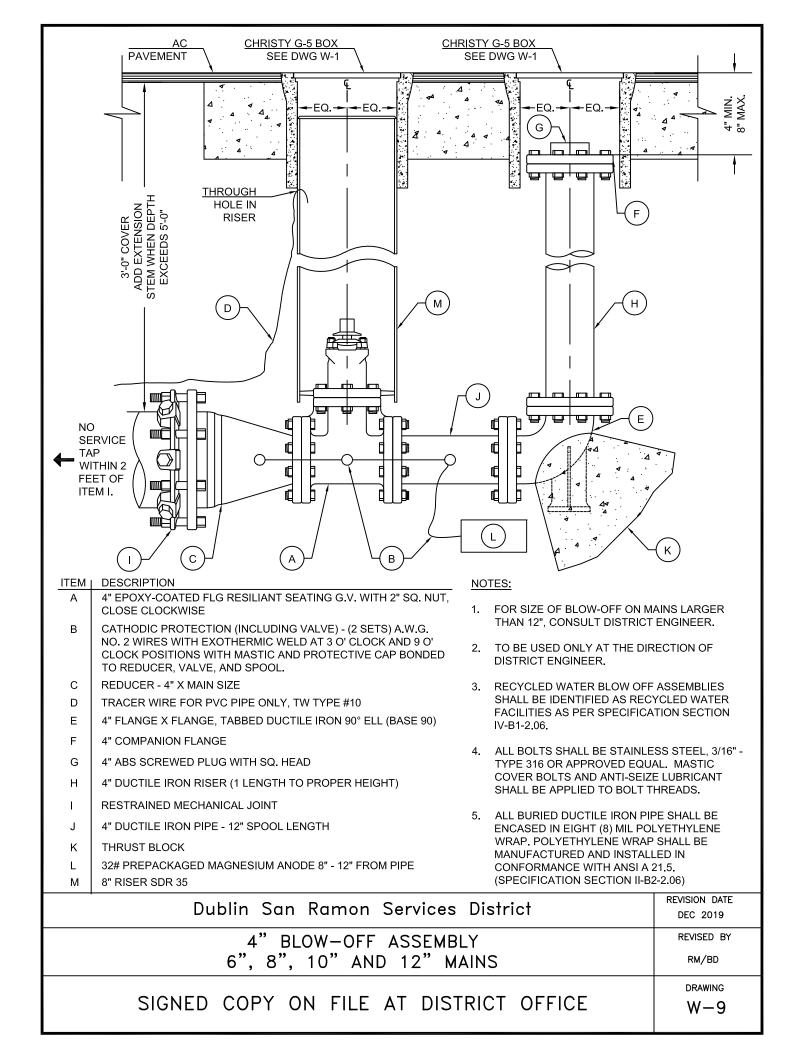


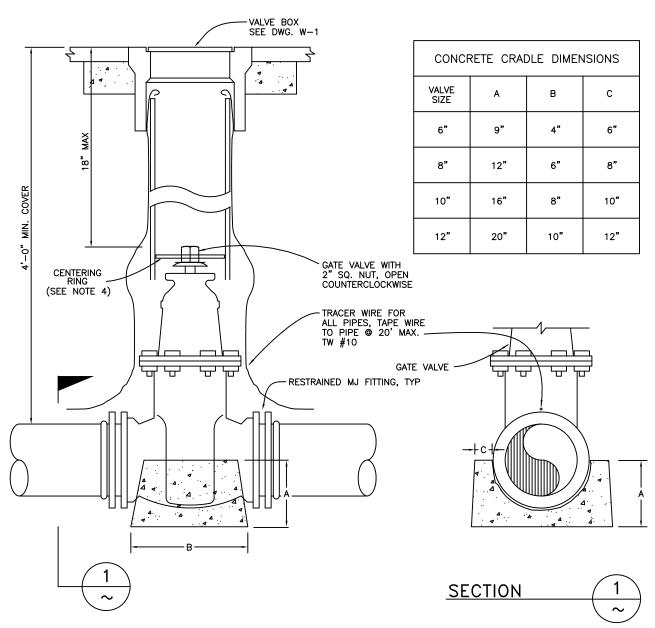
SERVICE ASSEMBLY

ITEM	DESCRIPTION
Α	BRONZE CORP. STOP
В	BRONZE COMPRESSION JOINT
С	POLYETHYLENE TUBING WITH TRACER WIRE (BLUE HDPE FOR POTABLE AND PURPLE HDPE FOR RECYCLED WATER)
D	BRONZE ANGLE CURB STOP, FLANGE W/WING LOCK
E	BRONZE SADDLE PER SECTION II-B1-2.08
F	FACE OF CURB TO BE MARKED ${}^{\prime\prime}\!\underline{W}{}^{\prime\prime}$ FOR POTABLE WATER AND ${}^{\prime\prime}\!\underline{R}\underline{W}{}^{\prime\prime}$ FOR RECYCLED WATER.

- THE SERVICE LINE SHALL REST ON UNDISTURBED EARTH IN THE BOTTOM OF THE TRENCH WITH A 36" MINIMUM COVER IN THE RUN BETWEEN THE MAIN AND THE CURB.
- 2. FOR METER BOX INSTALLATION SEE DWG W-19.
- STAINLESS STEEL INSERT STIFFENERS SHALL BE USED AT CORP. AND ANGLE STOPS IN POLYETHYLENE SERVICE LINES WHEN RECOMMENDED BY THE FITTING MANUFACTURER.
- 4. COLOR OF POLYETHYLENE TUBING SHALL BE: BLUE FOR POTABLE WATER SERVICE PURPLE FOR RECYCLED WATER SERVICE

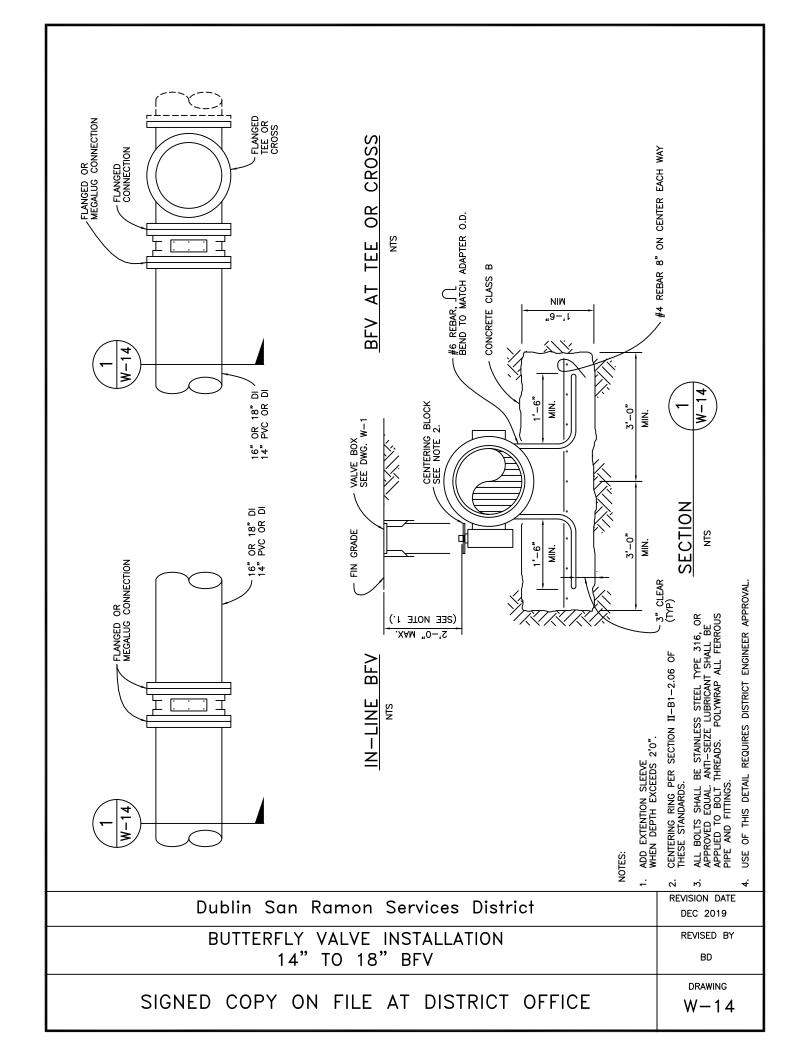
Dublin San Ramon Services District	REVISION DATE DEC 2019
1 1/2" - 2" SERVICE INSTALLATION	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-8

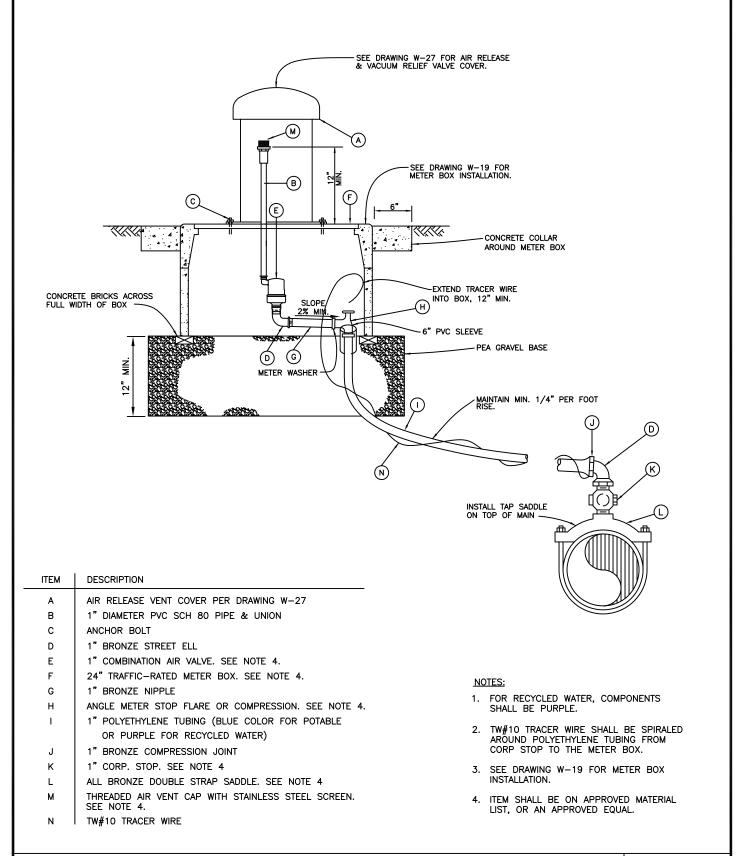




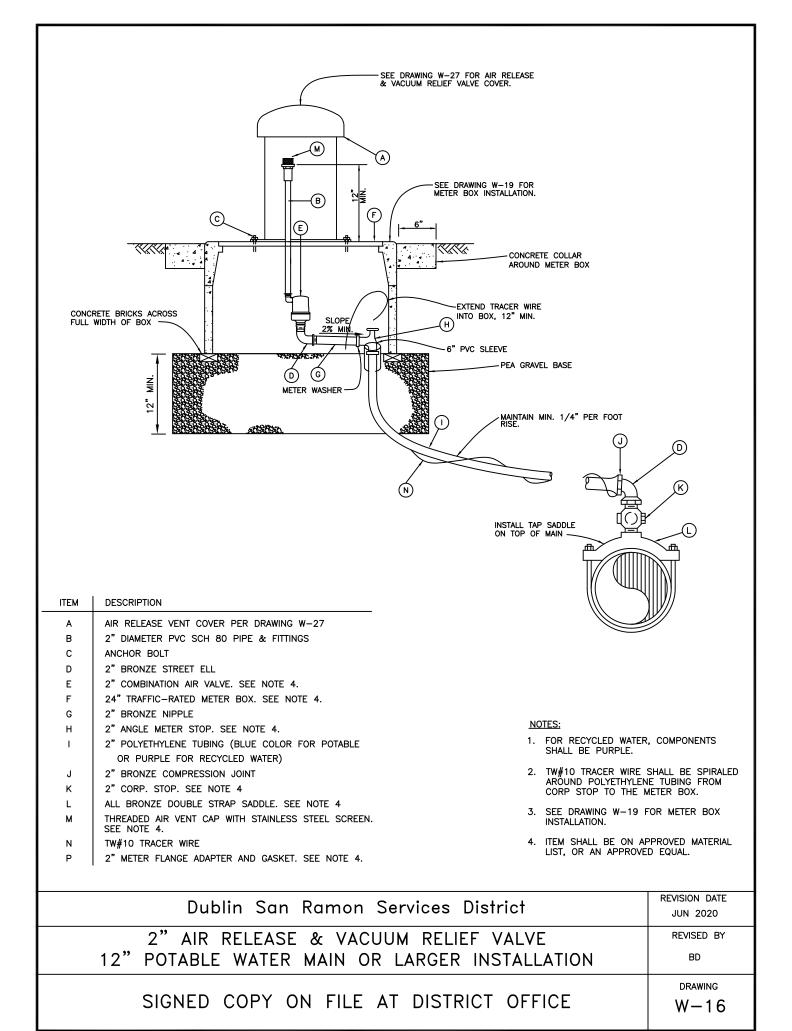
- 1. COAT ALL BONNET BOLTS, GLAND, GLAND BOLTS AND STEM WITH BITUMINOUS PAINT, SEE SPECS.
- 2. ON MAINS WHERE VALVES ARE TO BE INSTALLED ADJACENT TO TEES OR CROSSES, THE VALVES SHALL BE FLG \times MJ WITH FLANGED END BOLTED DIRECTLY TO THE TEE OR CROSS.
- 3. IN-LINE VALVES SHALL HAVE RESTRAINED MJ ENDS, WHERE NOT CONNECTING TO A FLANGED FITTING.
- 4. CENTERING RING PER SECTION II-B1-2.06 OF THESE STANDARDS.
- 5. ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, OR APPROVED EQUAL. ANTI—SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.
- 6. CONCRETE CRADLE FOR VALVE SHALL BE FORMED AND NOT ENCASE FITTINGS.
- 7. CATHODIC PROTECTION IS REQUIRED.

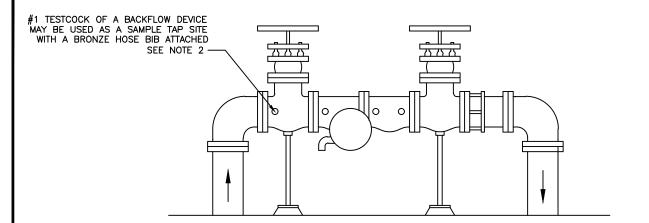
Dublin San Ramon Services District	REVISION DATE DEC 2019
GATE VALVE INSTALLATION 12" GATE VALVE AND SMALLER	REVISED BY KP/BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-13

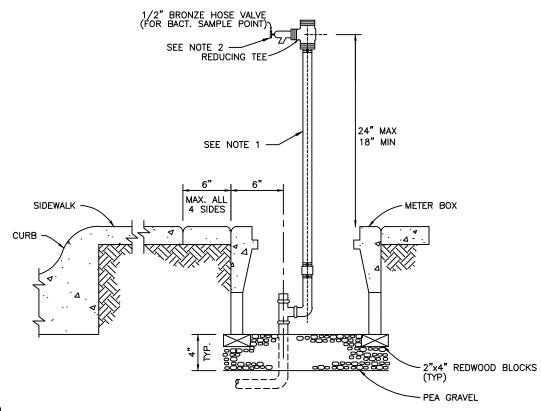




Dublin San Ramon Services District	REVISION DATE JUN 2020
1" AIR RELEASE & VACUUM RELIEF VALVE INSTALLATION 6"-10" POTABLE WATER AND RECYCLED WATER MAINS	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-15





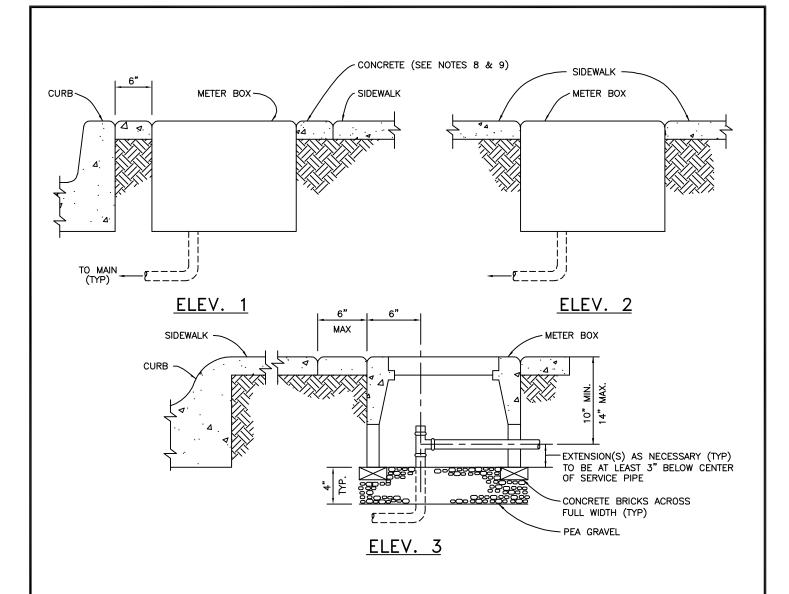


1. PIPING MUST BE RIGID.

NOTES:

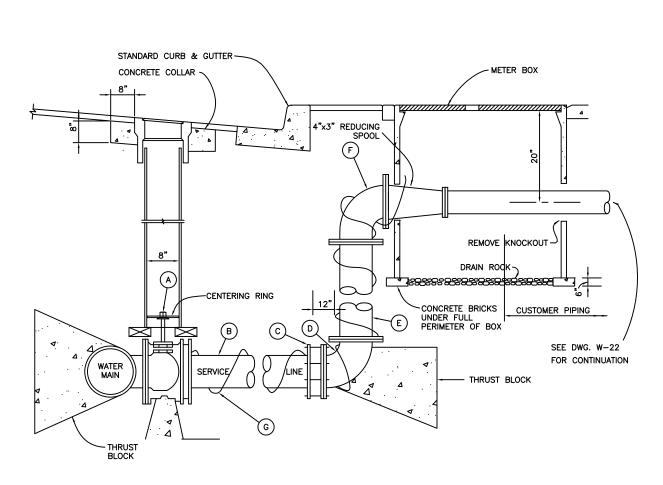
2. HOSE BIB SPOUT MUST FACE BELOW HORIZONTAL AND FACE STREET.

Dublin San Ramon Services District	DATE DEC 2005
TEMPORARY SAMPLE TAPS FOR NEW CONSTRUCTION	DESIGNED ATJ
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-18



- 1. SEE THE APPROVED MATERIAL LIST FOR METER BOX SCHEDULE
- 2. H20 TRAFFIC LOAD RATED BOXES & LIDS TO BE USED IN TRAFFIC AREAS.
- 3. ALL METER BOXES MUST BE SET TRUE, PERPENDICULAR TO STREET, AND FLUSH WITH SIDEWALK.
- 4. SPACE BETWEEN BOXES IN MULTIPLE METER INSTALLATIONS SHALL BE 2".
- 5. DO NOT SET METER BOXES ON PRIVATE PROPERTY.
- 6. LID TO BE ONE PIECE, MARKED WATER, AND TOUCH—READ READY WITH 2" PROBE HOLE.
- 7. IN SLOPED AREA METER BOX MAY REQUIRE REDWOOD RETAINING WALLS.
- 8. METER BOXES AND LIDS IN TRAFFIC AREAS SHALL BE H-20 TRAFFIC RATED. INSTALL 6" CONCRETE COLLAR (6" DEEP) AROUND TRAFFIC-RATED METER BOXES.
- METER BOXES OUTSIDE OF TRAFFIC AREAS AND NOT IN SIDEWALK SHALL HAVE 6" WIDE COLLAR (4" DEEP).
- 10. RECYCLED WATER METER BOX INSTALLATION SHALL BE IDENTIFIED AS RECYCLED WATER FACILITIES PER SECTION IV-B1-2.04.

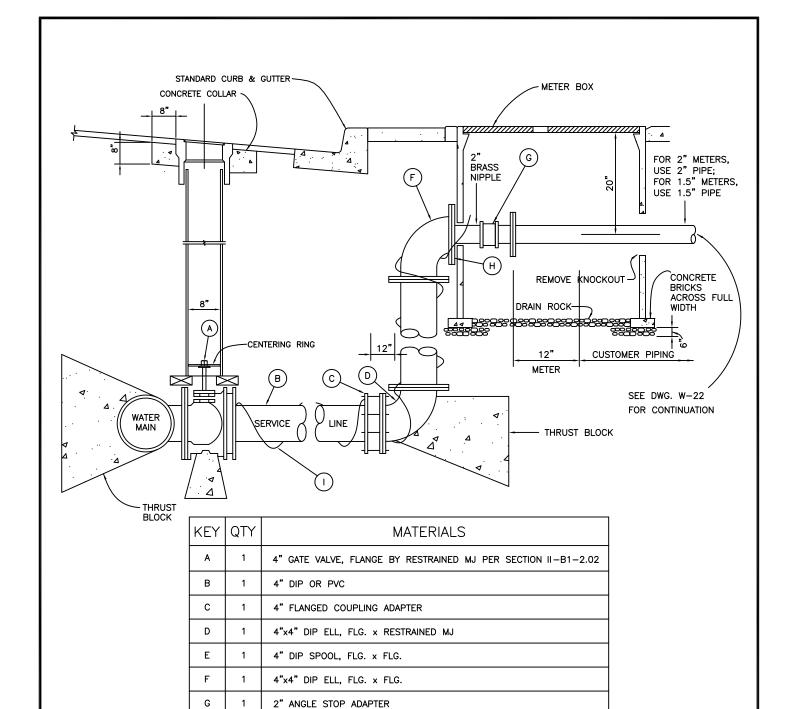
Dublin San Ramon Services District	REVISION DATE NOV 2019
METER BOX INSTALLATIONS 5/8 INCH TO 2 INCH	REVISED BY KP
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-19



KEY	QTY	MATERIALS
Α	1	4" GATE VALVE, FLANGE BY RESTRAINED MJ PER SECTION II-B1-2.02
В	1	4" DIP OR PVC
С	1	4" FLANGED COUPLING ADAPTER
D	1	4"x4" DIP ELL, FLG. x RESTRAINED MJ
Е	1	4" DIP SPOOL, FLG. x FLG.
F	1	4"x4" DIP ELL, FLG. x FLG.
G	1	TW#10 TRACER WIRE, EXTEND INTO VALVE BOX

- 1. ALL THRUST BLOCKS SHALL CONFORM TO STANDARD DRAWINGS W-2 AND W-3.
- 2. ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.
- 3. METER TO BE INSTALLED BY DSRSD.

Dublin San Ramon Services District	REVISION DATE JAN 2021
3" METER INSTALLATION	REVISED BY
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-20



1

Н

1. ALL THRUST BLOCKS SHALL CONFORM TO STANDARD DRAWINGS W-2 AND W-3.

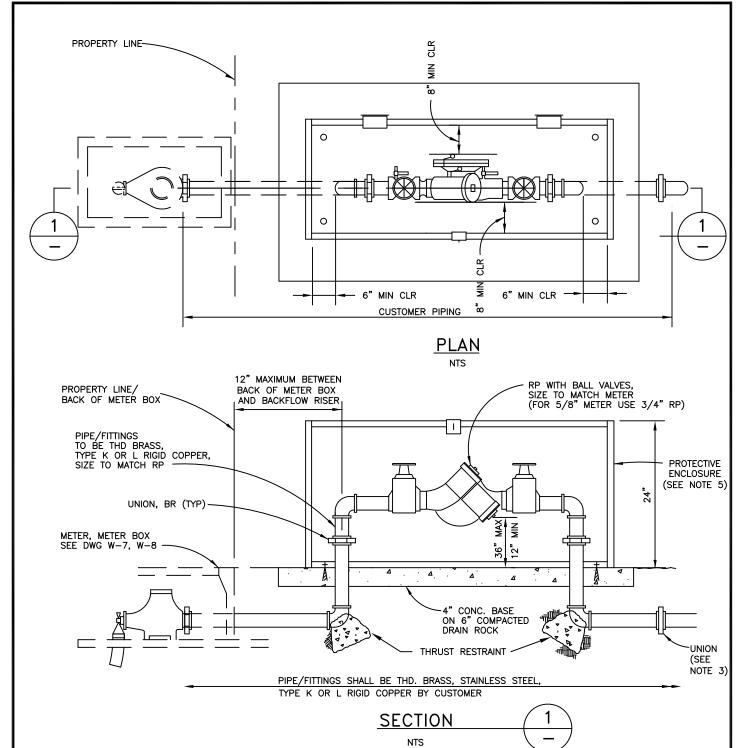
TW#10 TRACER WIRE, EXTEND INTO VALVE BOX

- 2. ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.
- 3. USE OF THIS DETAIL REQUIRES DISTRICT ENGINEER APPROVAL.

4"x2" COMPANION FLANGE

4. METER TO BE INSTALLED BY DSRSD.

Dublin San Ramon Services District	JAN 2021
4 INCLUSEDVICE W/ 2 INCLUMETED INSTALLATION	REVISED BY
4-INCH SERVICE W/ 2-INCH METER INSTALLATION	RM
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-20A



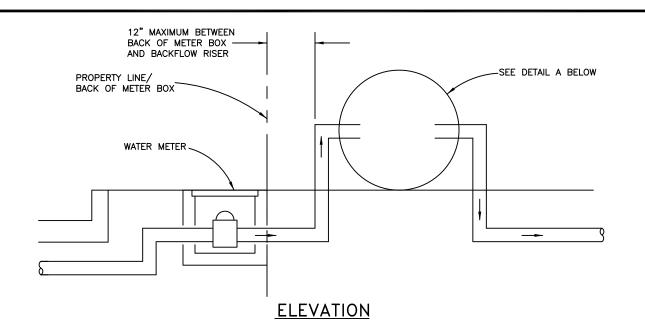
- SET RP ON PRIVATE PROPERTY.
- IF RP IS LOCATED NEAR TRAFFIC AREA, A MIN. OF TWO 4" GALVANIZED STEEL GUARD POSTS SHALL BE PROVIDED. POSTS SHALL BE 42'
 HIGH, EMBEDDED 36" BELOW GROUND IN CONCRETE, AND FILLED WITH CONCRETE.
 FITTING SHALL BE DIELECTRIC WHERE JOINING
- DISSIMILAR METALS.
- 3/4" TO 2" MUST HAVE BALL VALVE SHUT OFF VALVES. PROVIDE LOCKABLE ENCLOSURE WITH FOAM INSULATION

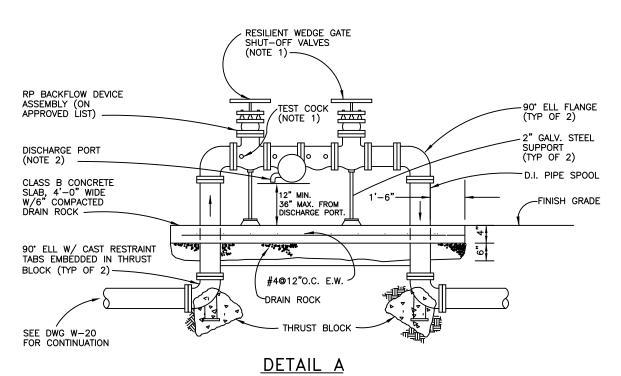
LINING, OR BLANKET (SEE DRAWING W-25).
DIMENSION OF CONCRETE PAD TO BE AS RECOMMENDED
BY ENCLOSURE MANUFACTURER.

DEVICE SHALL BE TESTED BY CERTIFIED TESTER. TEST REPORT SHALL BE SUBMITTED TO DSRSD.

THE CONCRETE PAD SHALL ACCOMODATE ENCLOSURES. SEE W-25 FOR ENCLOSURE DETAILS.

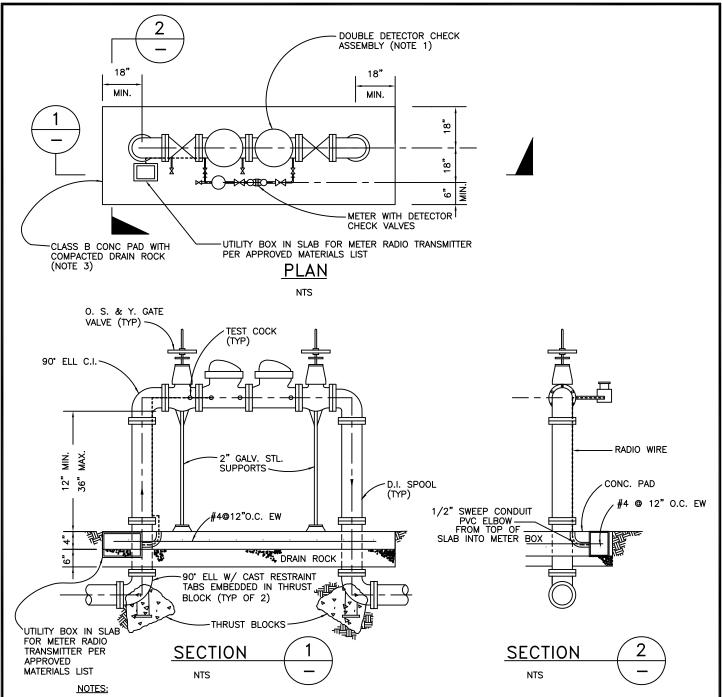
Dublin San Ramon Services District	REVISION DATE JUN 2020
BACKFLOW PREVENTER INSTALLATION 3/4" TO 2"	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-21





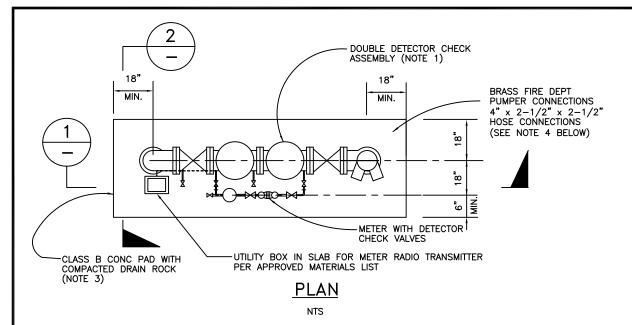
- 1. TEST COCKS AND SHUT-OFF VALVES MUST BE SUPPLIED AS SHOWN.
- 2. DISCHARGE PORT MUST BE KEPT CLEAR OF OBSTRUCTION AT ALL TIMES.
- 3. 2 1/2 THR 10" MUST HAVE RESILIENT SEAT WEDGE SHUT-OFF VALVES.
- 4. DEVICE SHALL BE TESTED BY CERTIFIED TESTER. TEST REPORT SHALL BE SUBMITTED TO DSRSD.
- 5. PROTECTIVE ENCLOSURE NOT SHOWN. REFER TO SECTION II-B2-7 AND DRAWING W-25 FOR ENCLOSURE REQUIREMENTS.
- 6. ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.

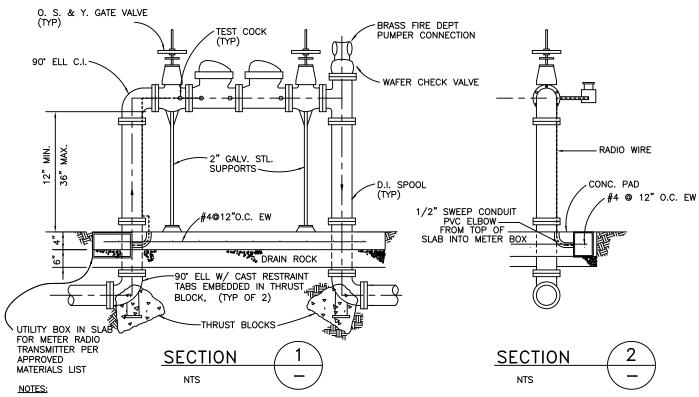
Dublin San Ramon Services District	REVISION DATE DEC 2020
2 1/2" TO 10" REDUCED PRESSURE BACKFLOW PREVENTION DEVICE	REVISED BY
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-22



- DOUBLE DETECTOR CHECK ASSEMBLY SHALL BE FACTORY ASSEMBLED COMPLETE, WITH METER AND DETECTOR CHECKS AND SHALL BE ON DISTRICT APPROVED LIST. THE DETECTOR METER SHALL BE SUPPLIED WITH A RADIO—READ NEPTUNE OR SENSUS METER. THE METER INTERFACE UNITS SHALL BE DATAMATIC FIREFLY METER INTERFACE UNITS FOR AMR SYSTEMS USING ENCODED REGISTERS WITH PROFILE PLUS LOAD PROFILING CAPABILITY.
- 2. INSTALL AS REQUIRED.
- 3. RADIO WIRE TO BE FIRMLY AFFIXED TO PIPING WITH WIRE TIES.
- 4. TRANSMITTER TO BE SPLICED TO INCOMING WIRES WITH WATER PROOF CONNECTORS.
- 5. METER SHALL BE SET TO READ IN CUBIC FEET.
- 6. DEVICE SHALL BE TESTED BY CERTIFIED TESTER. TEST REPORT SHALL BE SUBMITTED TO DSRSD.
- 7. PROTECTIVE ENCLOSURE NOT SHOWN. REFER TO SECTION II-B2-7 AND DRAWING W-25 FOR ENCLOSURE REQS.
- 8. ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.

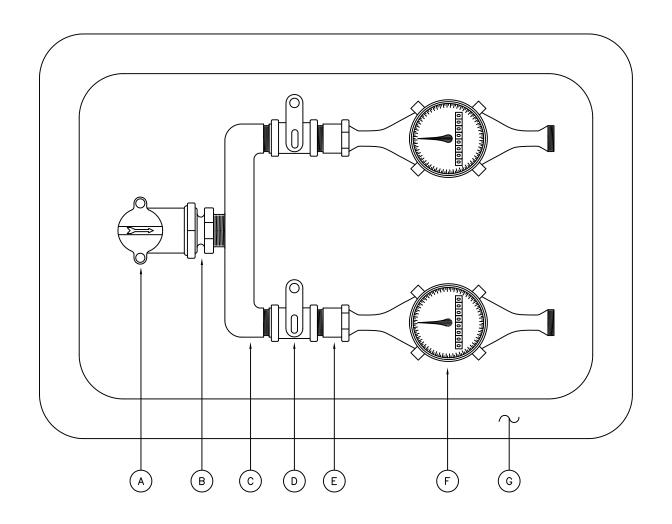
Dublin San Ramon Services District	REVISION DATE DEC 2020
DOUBLE DETECTOR CHECK FOR 2" — 10" FIRE LINES ABOVE GROUND INSTALLATION	REVISED BY
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-23





- 1. DOUBLE DETECTOR CHECK ASSEMBLY SHALL BE FACTORY ASSEMBLED COMPLETE. WITH METER AND DETECTOR CHECKS AND SHALL BE ON APPROVED MATERIALS LIST. THE DETECTOR METER SHALL BE SUPPLIED WITH A RADIO—READ METER. THE METER INTERFACE UNITS SHALL FOR AMR SYSTEMS USING ENCODED REGISTERS WITH PROFILE PLUS LOAD PROFILING CAPABILITY AND SHALL BE ON APPROVED MATERIALS LIST OR APPROVED EQUAL.
- 2. HOSE THREADS SHALL MATCH FIRE DEPT HOSE CONNECTORS (NST/NH).
- 3. INSTALL AS REQUIRED.
- 4. PUMPER CONNECTION MUST BE INSTALLED FACING STREET WITHOUT OBSTRUCTION.
- 5. THIS ARRANGEMENT REQUIRES FIRE DEPT APPROVAL.
- 6. RADIO WIRE TO BE FIRMLY AFFIXED TO PIPING WITH WIRE TIES.
- 7. TRANSMITTER TO BE SPLICED TO INCOMING WIRES WITH WATER PROOF CONNECTORS.
- B. METER SHALL BE SET TO READ IN CUBIC FEET.
- 9. DEVICE SHALL BE TESTED BY CERTIFIED TESTER. TEST REPORT SHALL BE SUBMITTED TO DSRSD.
- ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI-SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.

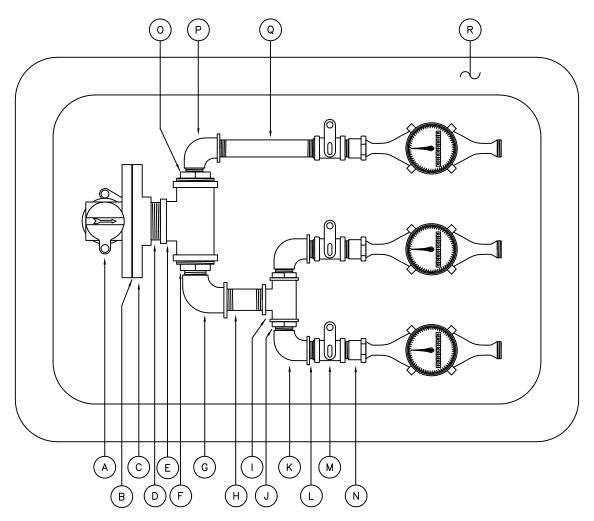
Dublin San Ramon Services District	REVISION DATE DEC 2019
DOUBLE DETECTOR CHECK FOR 2" - 10" FIRE LINES ABOVE GROUND INSTALLATION (OPTIONAL)	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-23A



KEY	QTY	MATERIALS
Α	1	1" BRONZE ANGLE METER STOP WITH WING-LOCK
В	1	1" BRONZE METER COUPLING BUSHING (1" MALE METER x 1" F.I.P.)
С	1	METER BRANCH WITH 1" M.I.P. INLET & 3/4" M.I.P. OUTLETS
D	2	3/4" BRONZE STRAIGHT CURB STOP BALL VALVE WITH WING-LOCK
E	2	3/4" BRONZE STRAIGHT METER COUPLING (M.I.P. x METER NUT)
F	2	5/8 METER (SUPPLIED BY DISTRICT)
G	1	METER BOX AND LID

 $\underline{\text{NOTE:}}$ SEE W-7 FOR SERVICE INSTALLATION. SEE W-29 FOR ADDRESS TAGS.

Dublin San Ramon Services District	REVISION DATE DEC 2019
1" WATER SERVICE WITH TWO 5/8" METER MANIFOLD	REVISED BY
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-24A



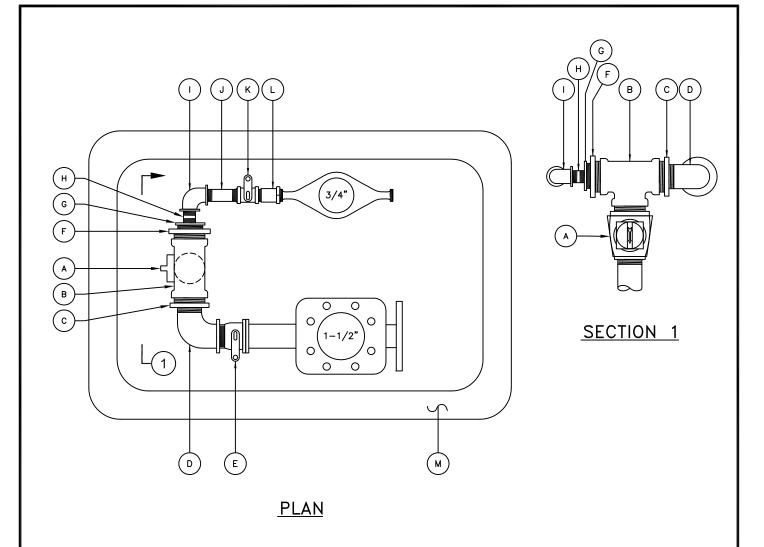
KEY	QTY	MATERIALS	KEY	QTY	MATERIALS
Α	1	2" BRONZE ANGLE METER STOP WITH WING-LOCK	J	2	1" TO 3/4" BRASS BUSHINGS
В	1	2" RUBBER METER GASKET	к	3	3'4 BRASS STREET ELLS
С	1	2" BRONZE METER FLANGE WITH 2" FEMALE THREADS	L	2	3/4" BRASS CLOSE NIPPLES
		4"x4" DIP ELL, FLG. x FLG.	М	3	3/4 BRONZE BALL VALVE CURBS STOPS - STRAIGHT
D	1	2" BRASS NIPPLE - 2" LONG	N	3	3/4" BRONZE STRAIGHT METER COUPLINGS
E	1	2" BRASS TEE	0	1	2" TO 3/4" BRASS BUSHING
F	1	2" TO 1" BRASS BUSHING	Р	1	3/4" STREET ELL
G	1	1" BRASS STREET ELL	Q	1	3/4" BRASS NIPPLE 6" LONG
Н	1	1" BRASS NIPPLE - 3" LONG	R	1	METER BOX AND LID
1	1	1" BRASS TEE			

NOTES: 1. SEE W-8 FOR SERVICE INSTALLATION.

2. SEE W-29 FOR ADDRESS TAGS.

3. USE OF THIS DETAIL REQUIRES DISTRICT ENGINEER APPROVAL

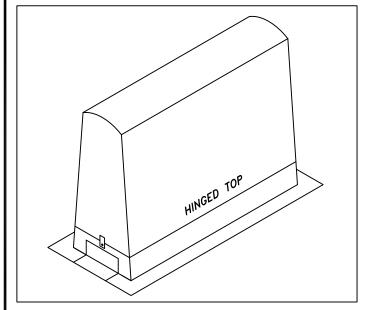
Dublin San Ramon Services District	REVISION DATE JUN 2020
O" WATER CERVICE WITH THREE 5 (0" METER	REVISED BY
2" WATER SERVICE WITH THREE 5/8" METER	MANIFOLD BD
SIGNED COPY ON FILE AT DISTRICT C	FFICE W-24B

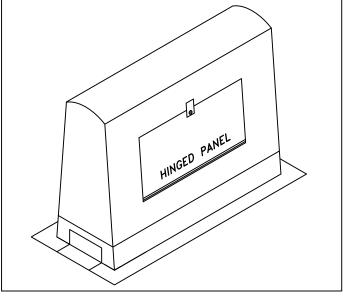


KEY	QTY	MATERIALS	KEY	QTY	MATERIALS
А	1	2" BRONZE STRAIGHT CURB STOP BALL VALVE WITH WING-LOCK	G	1	BRASS BUSHING 3/4" FIP X 1-1/2" MIP
В	1	2" BRASS TEE	н	1	3/4" BRASS NIPPLE 2" LONG
<u> </u>	'	Z BIVAGO TEL	1	1	3/4" BRASS ELBOW
С	2	BRASS BUSHING 1-1/2" FIP X 2" MIP	<u> </u>	· •	5) 1 BIVIOS EEDO!!
D	1	1-1/2" BRASS STREET ELL	J	1	3/4" BRASS NIPPLE 1-3/4" LONG
<u> </u>	·	, , , , , , , , , , , , , , , , , , ,	к	1	3/4" BRONZE STRAIGHT CURB STOP BALL VALVE WITH
E	1	1-1/2" STRAIGHT METER STOP BALL VALVE	"		WING-LOCK
		(MIP X METER FLANGE) WITH RUBBER METER GASKET	L	1	3/4" BRONZE STRAIGHT METER COUPLING
F	1	BRASS BUSHING 1-1/2" FIP X 2" MIP	М	1	METER BOX AND LID

NOTE: SEE W-8 FOR SERVICE INSTALLATION. SEE W-29 FOR ADDRESS TAGS.

Dublin San Ramon Services District	DATE DEC 2019
2" WATER SERVICE WITH ONE 3/4" METER & ONE 1-1/2" METER MANIFOLD INSTALLATIONS	DESIGNED RM
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-24C





FOR PIPE SIZE <= 2-INCH

FOR PIPE SIZES > 2-INCH

		DIMEN	
PIPE SIZE	W	L	Н
3/4"-1"	8	25	19
3/4"-1"	9	26	19
1 1/4"-2"	11	35	24
1 1/4"-2"	12	37	30
1 1/4"-2"	12	46	30
1 1/4"-2"	12	46	31
2 1/2"-3"	24	67	45
4"	29	65	50
6"	28	104	49
8"-10"	40	157	74

- NOTES:

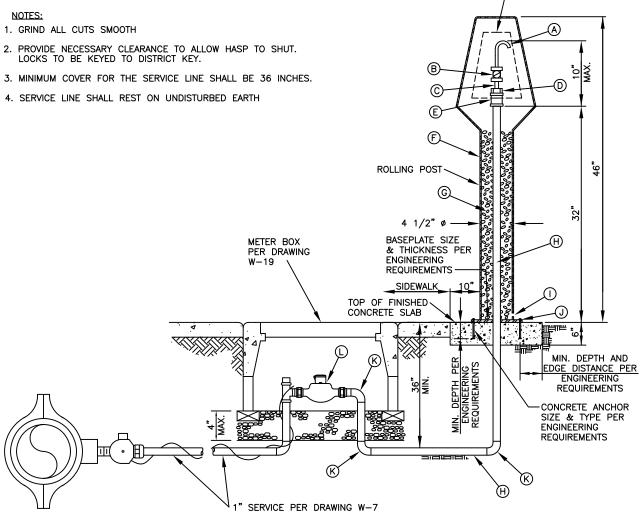
 1. ENCLOSURE SHALL BE AS SPECIFIED ON APPROVED MATERIALS LIST, OR EQUAL.

 2. CONCRETE PAD SHALL EXTEND 4 INCHES BEYOND THE EDGE OF THE ENCLOSURE.

REV. 11/19

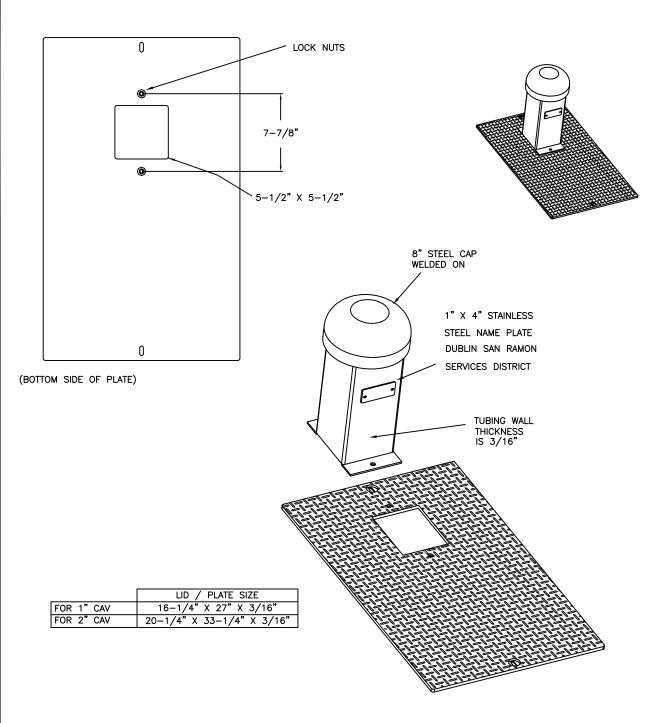
Dublin San Ramon Services District	DATE DEC 2019
FIBERGLASS ENCLOSURE FOR BACKFLOW PREVENTER	DESIGNED RM
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-25

ITEM	DESCRIPTION
Α	3/8" STAINLESS GOOSE NECK
В	1/2" x 3/8" BRASS OR STAINLESS VALVE
С	1/2" POLYETHYLENE TUBING
D	1" x 1/2" BRASS BUSHING
Ε	1" STRAIGHT BRASS COUPLING
F	POWDER COATED EPOXY STEEL HOUSING
G	PEA GRAVEL
Н	1" POLYETHYLENE TUBING (BLUE)
- 1	1/2"ø WEEP HOLE
J	ANCHOR BOLT
κ	FLARE FITTING OR COMPRESSION JOINT
L	METER



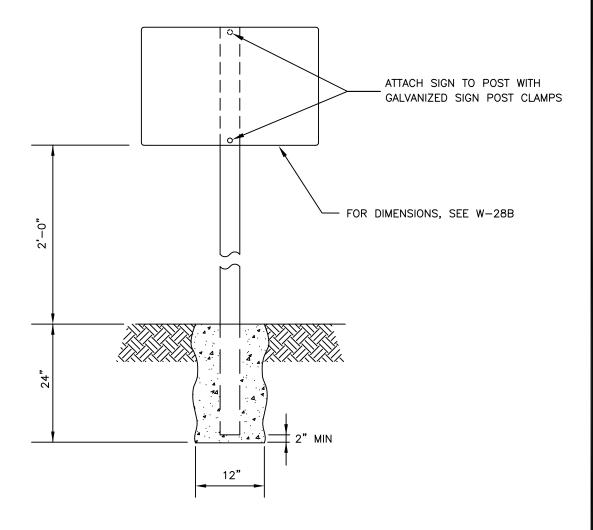
DOOR WITH LOCK

Dublin San Ramon Services District	REVISION DATE DEC 2019
STANDARD SAMPLING STATION	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-26



- 1. VALVE COVER TO BE ON APPROVED MATERIALS LIST, OR APPROVED EQUAL.
- 2. CLEAN INTERIOR AND EXTERIOR OF STEEL WITH A WATER-BASED CLEANER.
- 3. APPLY PRIMER 2-3 MILLS THICK WITH TWO PART CATALYZED POLYAMID EPOXY PRIMER (HUNTER GREEN FOR POTABLE WATER OR PURPLE FOR RECYCLED WATER), OR APPROVED EQUAL PRIMER.
- 4. APPLY ALIPHATIC URETHANE FINISH TOP COAT.
- 5. VALVE VENT COVER AND LID TO BE PAINTED HUNTER GREEN FOR POTABLE WATER OR PURPLE FOR RECYCLED WATER.

Dublin San Ramon Services District	REVISION DATE JUN 2020
AIR RELEASE & VACUUM RELIEF VALVE VENT COVER	REVISED BY RM/BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-27



- 1. RECYCLED WATER NOTIFICATION SIGN POST TO BE PROVIDED BY DEVELOPER.
- 2. POST SHALL BE 2" DIAMETER GALVANIZED STEEL.
- 3. FOOTING SHALL BE 24' IN DEPTH, IN CONCRETE.

Dublin San Ramon Services District	REVISION DATE JUN 2020
RECYCLED WATER SIGN POST DETAIL	REVISED BY KP/BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-28

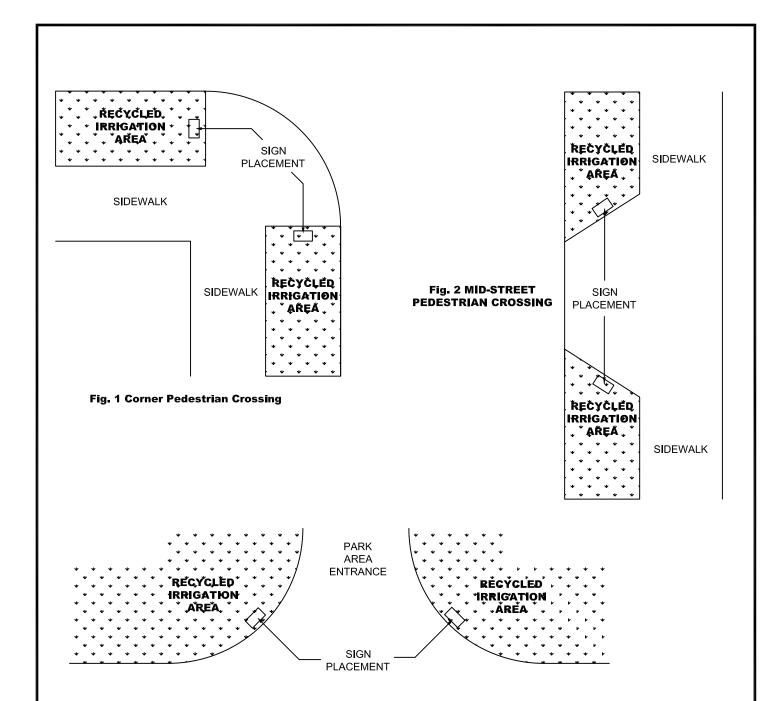
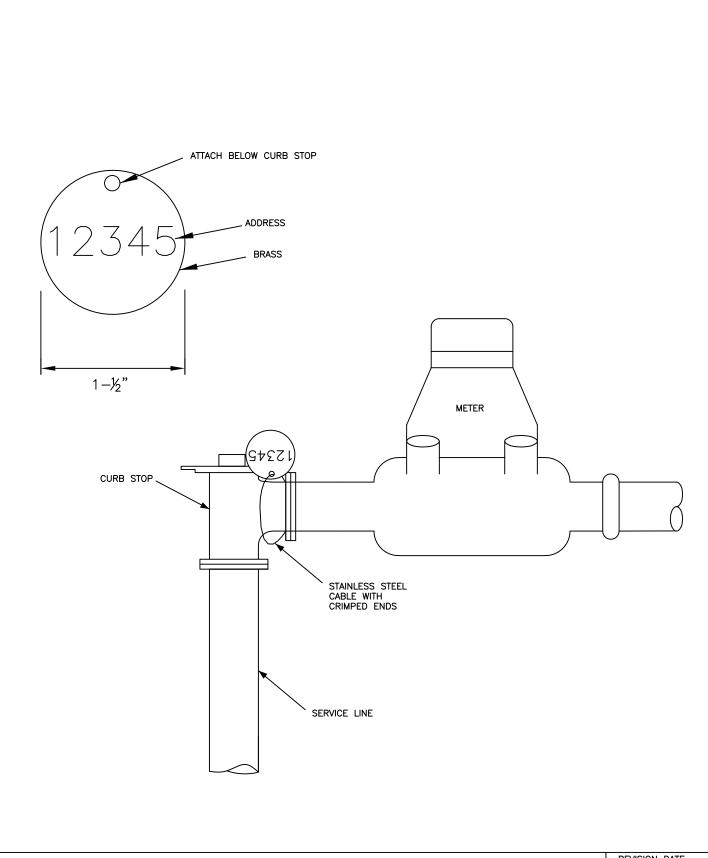


Fig. 3 PARK AREA ENTRANCE
PLACEMENT

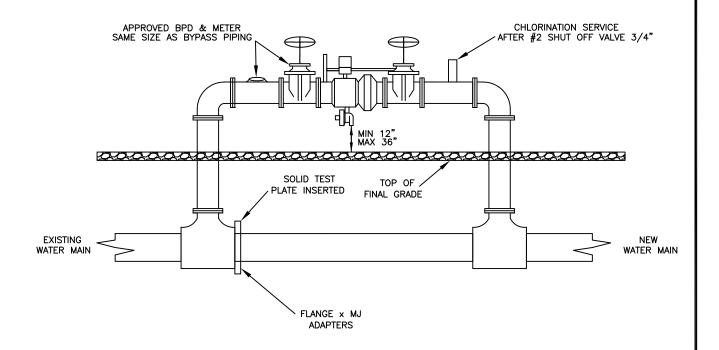
SIDEWALK

Dublin San Ramon Services District	DATE JAN 2020
STANDARD DETAILS FOR PLACEMENT OF RECYCLED WATER IRRIGATION SIGNS	REVISED BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-28A



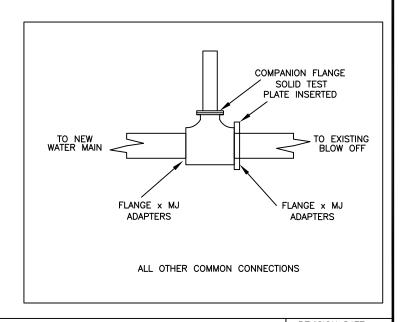


Dublin San Ramon Services District	JUN 2020
BRASS ADDRESS TAGS FOR MANIFOLDED METERS	REVISED BY BD
SIGNED COPY ON FILE AT DISTRICT OFFICE	drawing W-29

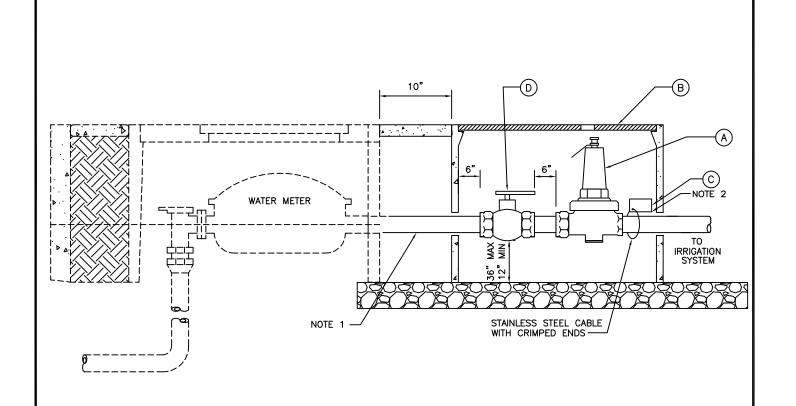


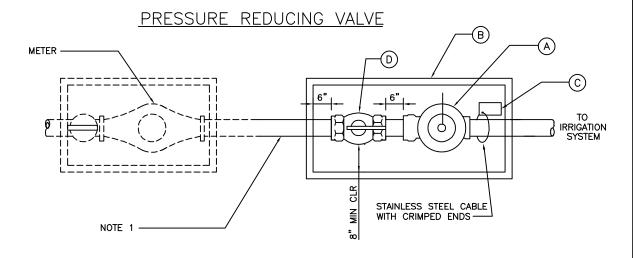
- 1. RP SHALL BE SIZED BY CONTRACTOR

 TO MEET AWWA STANDARD FOR FLUSHING.
- 2. CONSTRUCTION JUMPER TO BE REMOVED ONCE TESTING IS COMPLETED.
- 3. AFTER TESTING IS COMPLETED, ALL PIECES OF CONSTRUCTION JUMPER (INCLUDING THE TEES) SHALL BE REMOVED AND A STRAIGHT PIPE TO COMPLETE THE WATER MAIN SHALL BE INSTALLED.



Dublin San Ramon Services District	JAN 2021
CONSTRUCTION JUMPER	REVISED BY
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-30

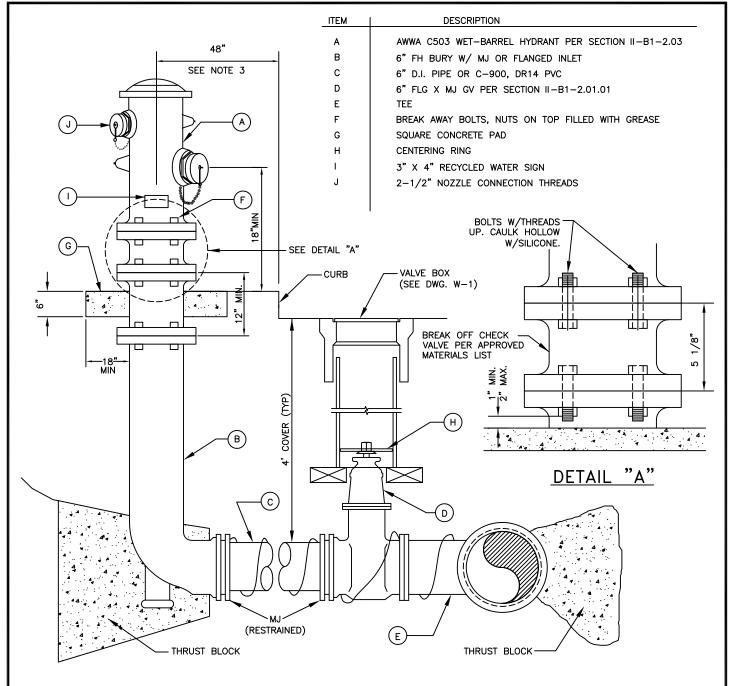




ITEM	DESCRIPTION
Α	PRESSURE REDUCING VALVE
В	METER BOX AND LID (PURPLE COLOR)
С	RECYCLED WATER WARNING TAG
D	BALL VALVE

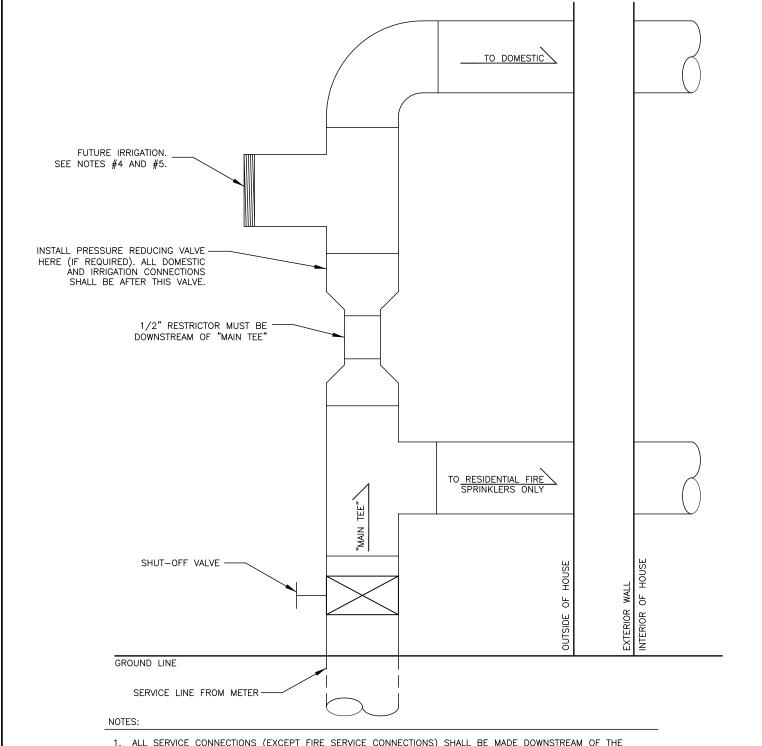
- 1. NO LINE CONNECTIONS BETWEEN METER & PRV.
- RECYCLED WATER I.D. TAG/LABEL.
- PRV SIZE SHALL BE EQUAL TO METER SIZE.
- FLOW SENSOR AND MASTER SHUT OFF VALVES SHALL
- BE INSTALLED IN ACCORDANCE WITH SPEC. SEC IV-A4-5.01

Dublin San Ramon Services District	DATE JAN 2020	
3/4" — 3" PRV INSTALLATION FOR RECYCLED WATER IRRIGATION SYSTEM	DESIGNED BD	
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-31	



- ON MAINS WHERE VALVES ARE TO BE INSTALLED ADJACENT TO TEES OR CROSSES, THE VALVES SHALL BE FLANGED X MJ WITH FLANGED END BOLTED DIRECTLY TO THE TEE OR CROSS.
- 2. VALVE DISTANCE IN FEET TO BE MARKED ON CURB.
- 3. SEE PLANS AND SPECIFICATIONS FOR LOCATION OF HYDRANTS. REFER TO SECTION II—B2—5.01 FOR PLACEMENT OF FIRE HYDRANTS BEHIND CURBS AND SIDEWALKS.
- 4. HYDRANT EXTERIOR PAINT SHALL BE PURPLE IN CONFORMANCE WITH SECTION IV-B1-2.11.
- ALL BOLTS SHALL BE STAINLESS STEEL TYPE 316, ANTI—SEIZE LUBRICANT SHALL BE APPLIED TO BOLT THREADS. POLYWRAP ALL FERROUS PIPE AND FITTINGS.
- 7. TRACER WIRE SHALL BE INSTALLED ON ALL FIRE HYDRANT RUNS.

Dublin San Ramon Services District	REVISION DATE JAN 2021
RECYCLED WATER FIRE HYDRANT INSTALLATION	REVISED BY RM
SIGNED COPY ON FILE AT DISTRICT OFFICE	DRAWING W-32



- 1. ALL SERVICE CONNECTIONS (EXCEPT FIRE SERVICE CONNECTIONS) SHALL BE MADE DOWNSTREAM OF THE RESTRICTION IN THE DOMESTIC SERVICE LINE.
- 2. THE ONE—HALF INCH RESTRICTOR AND BOTH TEES SHOWN ON THIS DRAWINGS SHALL BE ON THE OUTSIDE OF THE HOUSE AND SHALL BE VISIBLE FROM THE STREET UNLESS A LETTER OF EXEMPTION IS ON FILE WITH DSRSD.
- 3. SIZES OF PIPING MAY VARY PER PLANS. SIZE OF RESTRICTOR SHALL ALWAYS BE ONE-HALF (1/2) INCH.
- 4. MATERIAL SHALL CONFORM TO THE LATEST UNIFORM PLUMBING CODE.
- 5. INSTALLATION OF A HOSE BIB AT THE EXTERIOR OF THE HOME IS PERMISSIBLE.

SCALE: N.T.S.

Dublin San Ramon Services District	REVISION DATE MAY 2022
OUTDOOR PLUMBING SCHEMATIC (SINGLE FAMILY RESIDENTIAL ONLY)	REVISED BY RM
SIGNED COPY ON FILE AT DISTRICT OFFICE	W-33