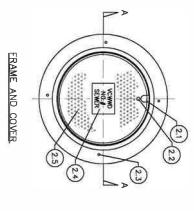
Sanitation, of the Standard Plans for Public Works Construction (SPPWC), as the official District standards for sewer construction, with the following modifications:

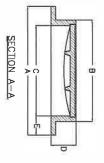
# PRECAST CONCRETE SEWER MANHOLE

- ₽
- m Only one (1) manhole step shall be installed. The step shall be placed at a max. of 16" from top of manhole lid and project 5" inside the manhole. If the soil beneath a concrete manhole base is disturbed, or groundwater exists, a minimum 12" layer of  $\frac{3}{4}$ " crushed gravel shall be placed under the base. Manholes shall not be placed in sidewalks without prior written approval from District.
- Ç

### MANHOLE COVER AND FRAME

- lifting slot
- pick hole
- $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$
- $\frac{5}{8}"$  diameter holes shall be drilled in frame, 4 equidistant places. Cast  $2\frac{1}{2}"$  letters, raised  $\frac{3}{16}"$ , with "VCWWD NO. 1 SEWER", "VCWWD NO. or "COUNTY OF VENTURA SEWER". 16 SEWER",
- Cover shall have  $\frac{3}{16}$ " raised diamond tread surface. There shall be no other language on outside of manhole approved by District. frame or cover unless





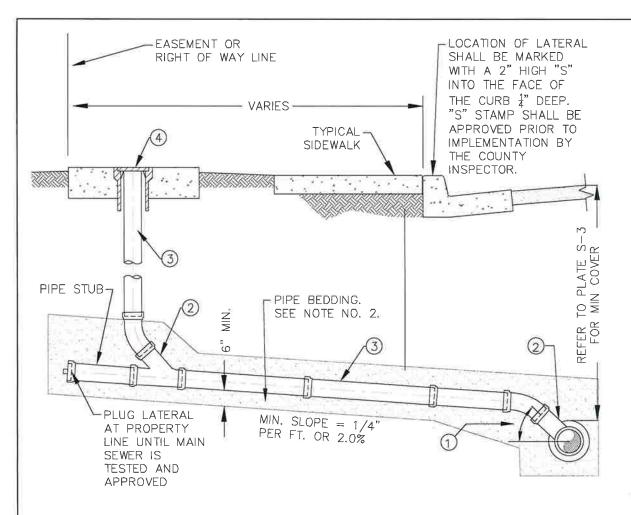
				-		
1	D	C	В	A	SIZE	П
	6	24	27	32	24	RAME
	6	30	33	38	30	FRAME & COVER
	6	36	39	44	36	R

### DROP SEWER MANHOLE

- œ,> Install a cross or tee.

  Install clean out and clean out cover at cross or tee connection:

VENTURA COUNTY WATERW COUNTY SERVICE ARE	VENTURA COUNTY WATERWORKS DISTRICT NO. 1 & 16. COUNTY SERVICE AREA NO. 29, 30, & 34.	=
ADOPTED BOARD OF SUPERVISORS	SEWER CONSTRUCTION STANDARDS	N STANDARDS
APPROVED BY: DIRECTOR OF PUBLIC WORKS		STAND ARD DRAWING
RECOMMENDED BY DIRECTOR OF WATER AND WATER AND	GENERAL NOTES	S-1



- 1. LATERAL RISER WHERE REQUIRED SHALL BE INSTALLED WITHIN DEDICATED EASEMENT OR PUBLIC RIGHT OF WAY LINE.
- 2. LATERAL BEDDING TO BE SAME AS SEWER MAIN.
- 3. PLUG WYE BRANCH WITH ABS STOPPER.
- 4. TO CONNECT SIX INCH AND SMALLER SEWER LATERALS TO AN EXISTING SEWER, TAP AND INSTALL SEWER SADDLE IN MAIN SEWER WITH DISTRICT'S PRIOR APPROVAL (SEE DISTRICT APPROVED MATERIAL LIST).
- 5. LARGE SEWER LATERALS MAY BE REQUIRED TO BE CONNECTED WITH A MANHOLE AT THE DISTRICT'S DISCRETION.

### CONSTRUCTION NOTES:

- 1) BRANCHES SHALL BE CONNECTED WITH A WYE AND SHALL BE ROTATED UPWARD FROM HORIZONTAL TO AN ANGLE OF 22½ TO 45°.
- (2) WYE BRANCH FITTING.
- (3) PVC SDR-35 PIPE OR DISTRICT APPROVED EQUAL.
- (4) REFER TO STANDARD DRAWING NO. S-5 FOR CLEANOUT DETAIL.

VENTURA COUNTY WATERWORKS DISTRICT NO. 1 & 16.
COUNTY SERVICE AREA NO. 29, 30, & 34.

ADOPTED BOARD OF SUPERVISORS

DATE:

APPROVED BY:

DIRECTOR OF PUBLIC WORKS

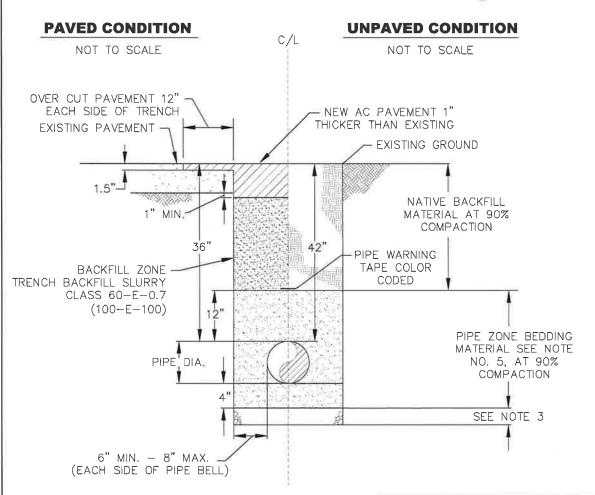
RECOMMENDED BY DIRECTOR OF WATER AND

SEWER LATERAL DETAIL



SEWER CONSTRUCTION STANDARDS

STANDARD DRAWNG NO. S-2



- 1. MAINTAIN 36" MIN. COVER FOR ALL PIPES IN PAVED AREAS (ON ALL SIDES OF PIPE).
- 2. MAINTAIN 42" MIN. COVER FOR ALL PIPES IN UNPAVED AREAS (ON ALL SIDES OF PIPE).
- 3. FOUNDATION SHALL BE REQUIRED IF NATIVE MATERIAL IS SOFT. SPONGY OR UNSTABLE. WHERE OVER EXCAVATION IS REQUIRED, DEPTH AND MATERIAL SHALL BE DETERMINED BY THE DISTRICT.
- 4. COMPACTION SHALL NOT BE ACHIEVED BY THE USE OF FLOODING, PONDING, OR JETTING.
- 5. BEDDING MATERIAL SHALL BE WASHED CONC. SAND. SE > 30. AND GRANULAR WITH 100% PASSING 3/4" SIEVE, 90% TO 100% PASSING THE 3/8' SIEVE AND NOT MORE THAN 5% PASSING THE 200 SIEVE.
- 6. PIPE SHALL BE ORIENTED WITH PRODUCT LABEL ON TOP.
- 7. CONTRACTOR SHALL PROVIDE HAND EXCAVATED "BELL HOLE" FOR EACH PIPE JOINT SO THAT THE WEIGHT OF THE PIPE DOES NOT BEAR ON THE BELL. CONTRACTOR SHALL RE-FILL AND HAND-TAMP EACH "BELL HOLE" PRIOR TO COMPLETING THE PLACEMENT OF THE BEDDING.
- 8. IF EDGE OF ASPHALT TRENCH CAP IS WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT OR LIP OF GUTTER. THE OVERCUT AND PAVING SHALL BE EXTENDED TO THE EDGE OF PAVING OR LIP OF GUTTER.
- 9. IF DEPTH EXCEEDS 10', SAND BEDDING SHALL BE SUBSTITUTED WITH 3" ROCK

VENTURA COUNTY WATERWORKS DISTRICT NO. 1 & 16. COUNTY SERVICE AREA NO. 29, 30, & 34.

ADOPTED BOARD OF SUPERVISORS

DATE:

SEWER CONSTRUCTION STANDARDS

APPROVED BY:



DIRECTOR OF PUBLIC WORKS

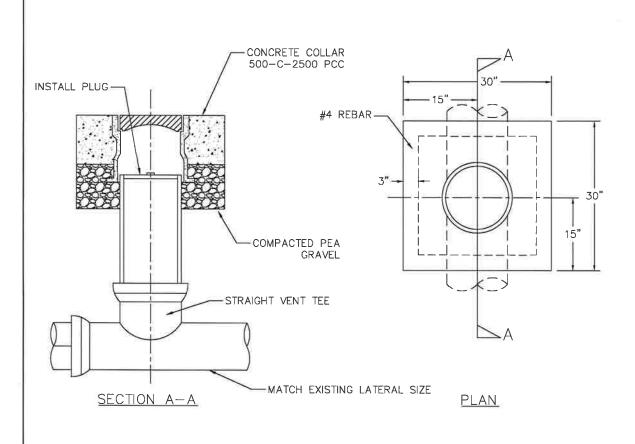
WATER AND SANITATION

DIRECTOR OF

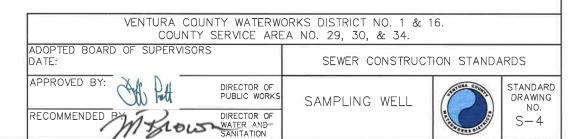
SEWER TRENCH DETAIL

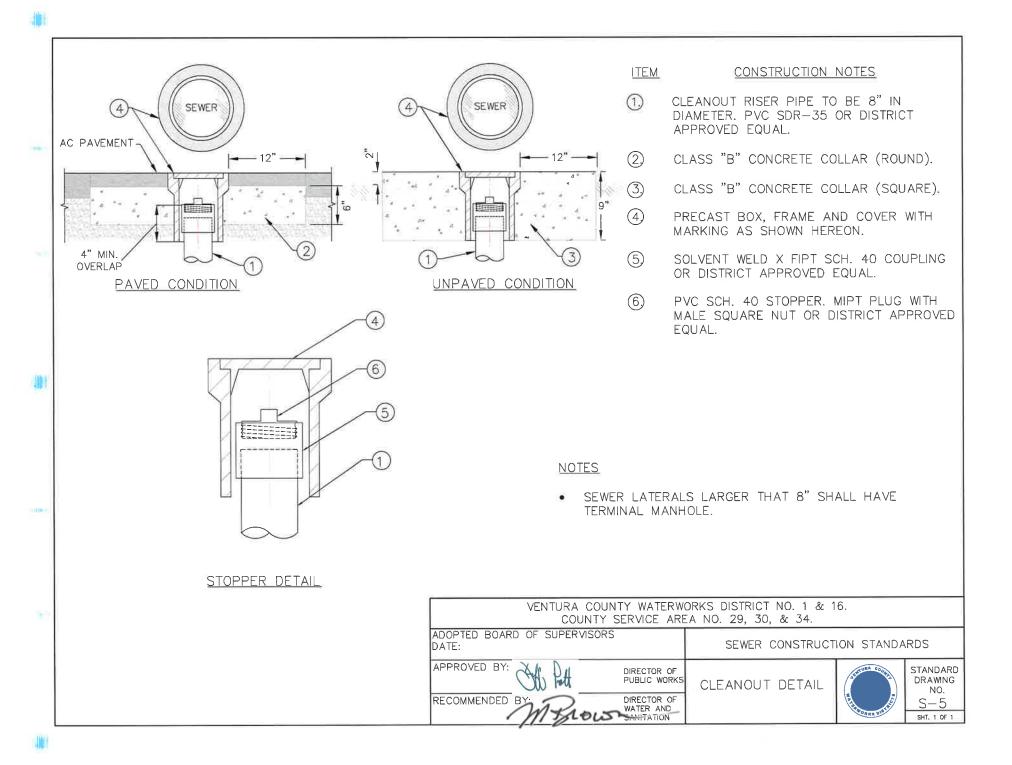


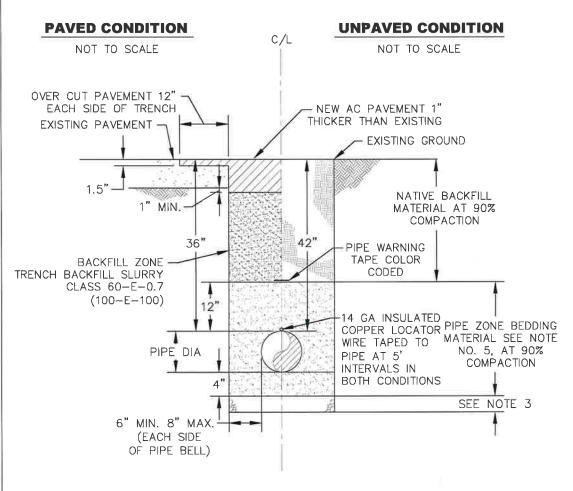
STANDARD DRAWING NO. S-3



- 1. SAMPLING WELL SHALL BE INSTALLED 18"
  TO CENTERLINE BEHIND CURB OR
  SIDEWALK. WHEN NOT POSSIBLE
  SAMPLING WELL SHALL BE LOCATED AT
  THE DISTRICT ENGINEER'S DISCRETION.
- 2. SAMPLING WELL BOX SHALL BE LISTED ON THE APPROVED MATERIALS LIST OR A DISTRICT APPROVED EQUAL. LID SHALL BE MARKED "SEWER".
- 3. STRAIGHT VENT TEE AND RISER SHALL BE VITRIFIED CLAY. DO NOT USE A WYE IN PLACE OF VENT TEE. TEE AND RISER SHALL BE THE SAME SIZE AS THE LATERAL. RISER SHALL BE VERTICALLY PLUMB.
- 4. DISTRICT SHALL APPROVE THE LOCATION OF THE SAMPLING WELL, MATERIALS, AND METHODS PRIOR TO INSTALLATION.
- CONCRETE COLLAR SHALL BE PLACED LEVEL WITH EXISTING PAVEMENT ON PAVED AREAS.







- MAINTAIN 36" MIN. COVER FOR ALL PIPES IN PAVED AREAS (ON ALL SIDES OF PIPE).
- MAINTAIN 42" MIN. COVER FOR ALL PIPES IN UNPAVED AREAS (ON ALL SIDES OF PIPE).
- 3. FOUNDATION SHALL BE REQUIRED IF NATIVE MATERIAL IS SOFT, SPONGY OR UNSTABLE. WHERE OVER EXCAVATION IS REQUIRED, DEPTH AND MATERIAL SHALL BE DETERMINED BY THE DISTRICT.
- COMPACTION SHALL NOT BE ACHIEVED BY THE USE OF FLOODING, PONDING, OR JETTING UNLESS RECOMMENDED BY SOILS ENGINEER.
- 5. BEDDING MATERIAL SHALL BE WASHED CONC. SAND, SE > 30, AND GRANULAR WITH 100% PASSING 3/4" SIEVE, 90% TO 100% PASSING THE 3/8' SIEVE AND NOT MORE THAN 5% PASSING THE 200 SIEVE.
- 6. PIPE SHALL BE ORIENTED WITH PRODUCT LABEL ON TOP:
- 7. CONTRACTOR SHALL PROVIDE HAND EXCAVATED "BELL HOLE" FOR EACH PIPE JOINT SO THAT THE WEIGHT OF THE PIPE DOES NOT BEAR ON THE BELL. CONTRACTOR SHALL RE-FILL AND HAND-TAMP EACH "BELL HOLE" PRIOR TO COMPLETING THE PLACEMENT OF THE BEDDING.
- 8. IF EDGE OF ASPHALT TRENCH CAP IS WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT OR LIP OF GUTTER, THE OVERCUT AND PAVING SHALL BE EXTENDED TO THE EDGE OF PAVING OR LIP OF GUTTER.

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS
DATE:

WATER CONSTRUCTION STANDARDS

APPROVED BY:

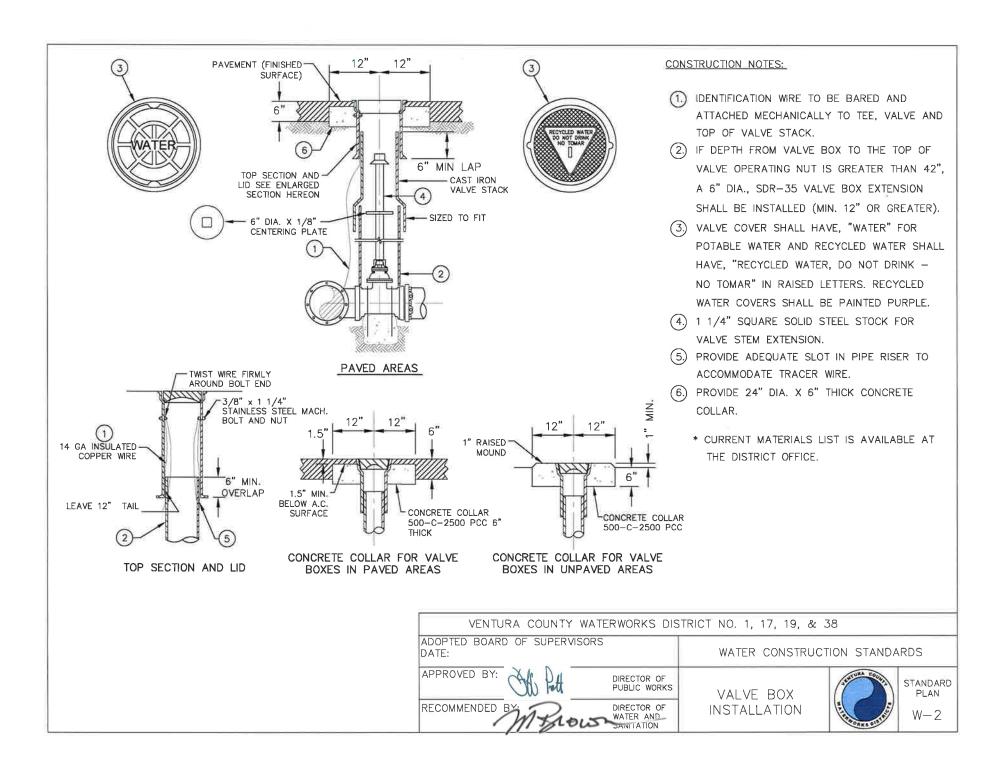
DIRECTOR OF PUBLIC WORKS

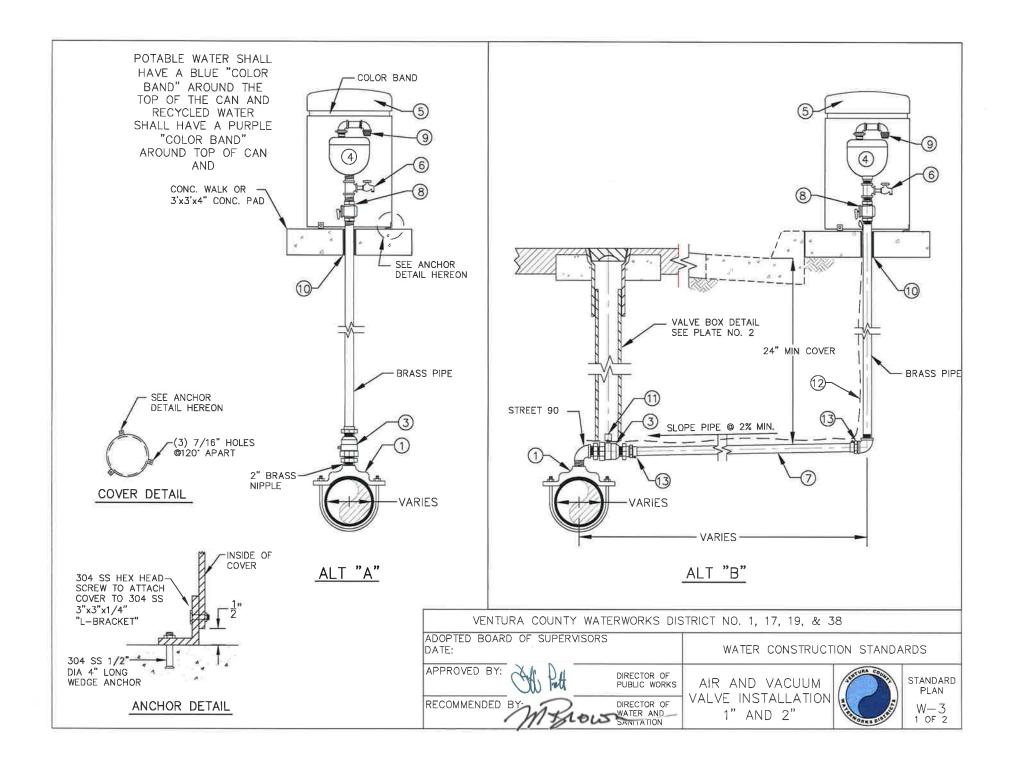
RECOMMENDED BY:

DIRECTOR OF PUBLIC WORKS

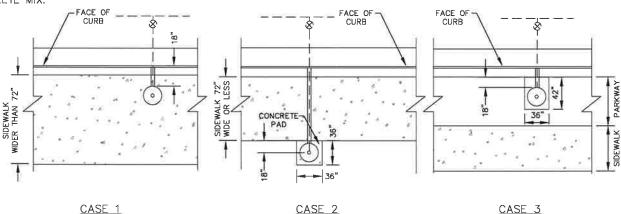
TRENCH
DETAILS

STANDARD
PLAN
W—1





- (1.) WATER MAIN TAP SHALL BE WITH AN APPROVED SERVICE SADDLE ON P.V.C. OR D.I. PIPE OR A WELDED COUPLING ON STEEL PIPE. (ALT "B" ONLY)
- (2.) IF AIR VALVE IS ANCHORED TO STRUCTURE, COVER SHALL BE OMITTED.
- 3. BALL VALVE, SIZE SHALL BE 1" FOR 10" OR SMALLER PIPE SIZE. BALL VALVE SIZE SHALL BE 2" FOR 12" OR LARGER PIPE SIZE OR AS DIRECTED BY DISTRICT ENGINEER.
- (4) USE AIR RELEASE/VACUUM BREAKER VALVE FROM CURRENT MATERIAL LIST. (PAINTED PURPLE FOR RECLAIMED WATER)
- VALVE COVER SHALL BE LOCATED PER APPLICABLE CASE 1, 2, OR 3, AS SHOWN HEREON.VALVE COVER SHALL BE COMPOSITE OR
  APPROVED EQUAL. FOR POTABLE WATER, COVER MUST HAVE A BLUE "COLOR BAND" AROUND TOP. FOR RECLAIMED WATER, COVER MUST HAVE PURPLE
  "COLOR BAND" AROUND TOP.
- (6.) INSTALL 3/4" BRASS HOSE BIB.
- 7.) COPPER PIPE (CTS) & RED BRASS FITTINGS. SOLDERING TO COPPER IS NOT ALLOWED TO EXTEND RUN ON COMPRESSION FITTINGS. USE SOLID PIECE OF PIPE. BRASS PIPE SHALL BE SAME SIZE AS AIR/VAC VALVE.
- (8.) BRASS BALL VALVE WITH LEVER HANDLE ONLY.
- (9.) USE BRASS FITTINGS WITH STAINLESS STEEL 1/8" MESH SCREEN.
- (10) USE 30 POUND FELT OR POLYSTYRENE BOND BREAKER.
- (1) 1" OR 2" ORISEAL BALL VALVE WITHOUT "STOPS" AND WITH 2" SQUARE OPERATING NUT ADAPTOR ATTACHED WITH STAINLESS STEEL BOLT AND NUT.
- (12) WARNING TAPE.
- (13) CTS X MIPT ADAPTOR WITH FIPT 90° ELBOW.
- (14) 2500 PSI CONCRETE MIX.

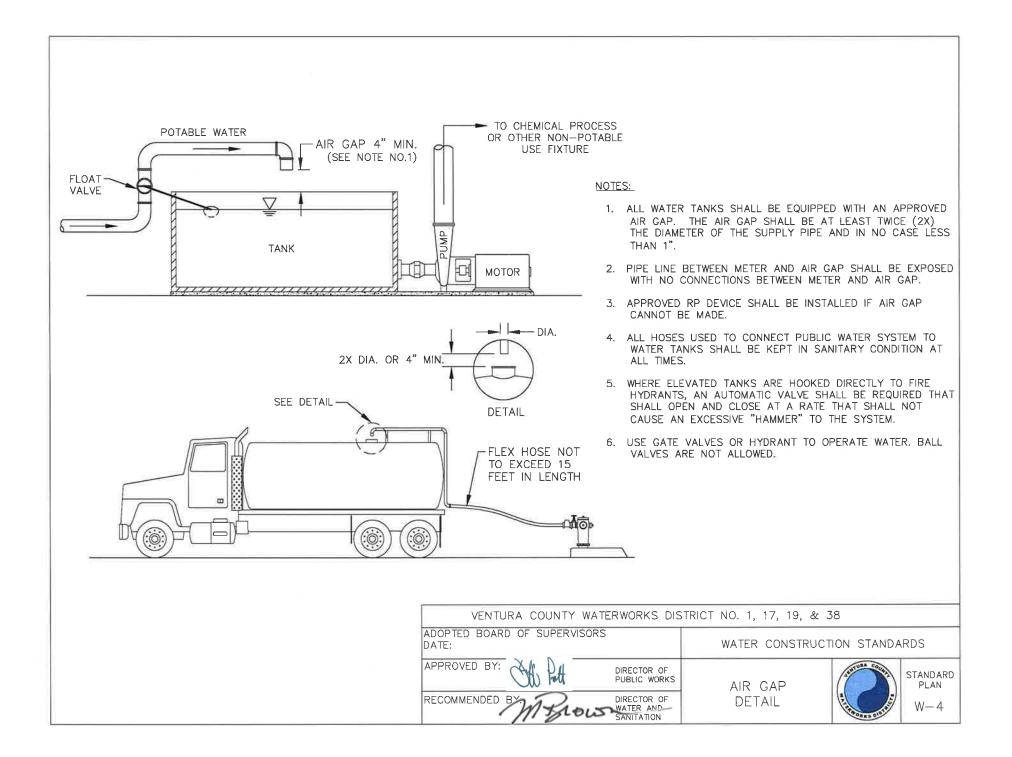


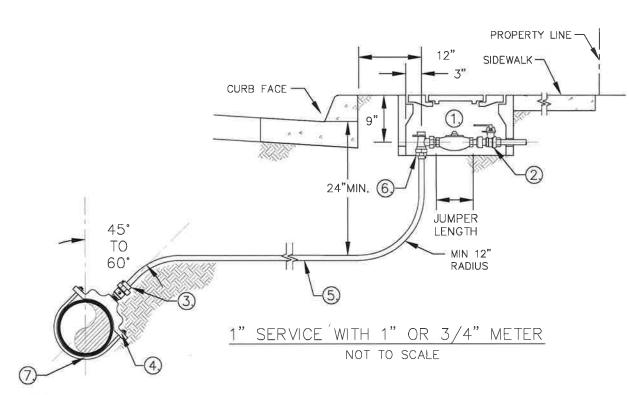
### NOTES:

- DISTRICT WILL DETERMINE IF 1" OR 2" ASSEMBLY IS TO BE INSTALLED. REFER TO PROJECT PLANS.
- FILL ANNULAR SPACE WITH SAND AND COMPACT. JETTING SHALL NOT BE PERMITTED.
- 3. CURRENT MATERIAL LIST IS AVAILABLE AT THE DISTRICT OFFICE.
- BARRICADE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 306-10.5

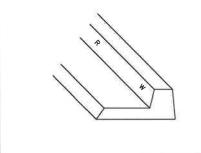
### VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS WATER CONSTRUCTION STANDARDS DATE: APPROVED BY: DIRECTOR OF STANDARD AIR AND VACUUM PUBLIC WORKS PLAN VALVE INSTALLATION RECOMMENDED DIRECTOR OF W-3WATER AND 1" AND 2" 2 OF 2 SANITATION





LOCATION OF LATERAL SHALL BE MARKED WITH A 2" HIGH "W" FOR POTABLE WATER OR "R" FOR RECYCLED WATER STAMPED INTO THE FACE OF THE CURB 1" DEEP. A WHEEL GRINDER CAN BE USED TO MAKE THE MARK WITH PRIOR COUNTY INSPECTOR APPROVAL.



### NOTES:

- 1. JUMPER SHALL BE SUPPLIED BY THE DISTRICT AND INSTALLED BY THE OWNER'S CONTRACTOR.
- 2. FOR PARKWAY AND SIDEWALK CONSTRUCTION, DISTANCE TO R/W OR WHEN SLOPE INTERFERENCE EXISTS ANGLE METER STOP SHALL BE SET 12" BEHIND CURB ON 1" SERVICE.
- 3. SOLDERING TO COPPER IS NOT ALLOWED TO EXTEND RUN ON COMPRESSION FITTINGS. USE SOLID PIECE OF PIPE,
- 4. CURRENT MATERIAL LIST AVAILABLE AT THE DISTRICT OFFICE.
- 5. COPPER PIPE SHALL BE WRAPPED WITH POLYETHYLENE CASING (10 MIL.).
- 6. LOCATOR TAPE SHALL BE LAID ON TOP OF BEDDING MATERIAL.
- 7. METER BOX LID MUST ACCEPT AMR ANTENNAS.
- 8. NEW SERVICE SHALL BE 18" FROM OTHER SERVICES OR APPURTENANCES

### CONSTRUCTION NOTES:

- WATER METER FURNISHED BY DISTRICT.
- CUSTOMER HAND VALVE WITH HANDLE.
- 1" MIP THREAD X COMPRESSION BALL CORP.
- SERVICE SADDLE TO BE ANGLED BETWEEN 30' AND 45'.
- 1" TYPE K COPPER SERVICE LINE.
- 3/4" OR 1" X COMP. ANGLE METER STOP.
- DO NOT OVEREXCAVATE MAIN PIPELINE

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS DATE:

APPROVED BY:

DIRECTOR OF PUBLIC WORKS

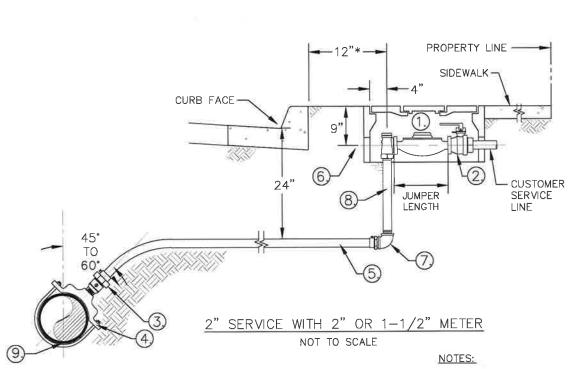
1" WATER METER

WATER CONSTRUCTION STANDARDS

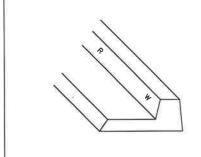
STANDARD PLAN W-5

RECOMMENDED DIRECTOR OF WATER AND SANITATION

SERVICE INSTALLATION



LOCATION OF LATERAL SHALL BE MARKED WITH A 2" HIGH "W" FOR POTABLE WATER OR "R" FOR RECYCLED WATER STAMPED INTO THE FACE OF THE CURB \(\frac{1}{4}\)" DEEP. A WHEEL GRINDER CAN BE USED TO MAKE THE MARK WITH PRIOR COUNTY INSPECTOR APPROVAL.



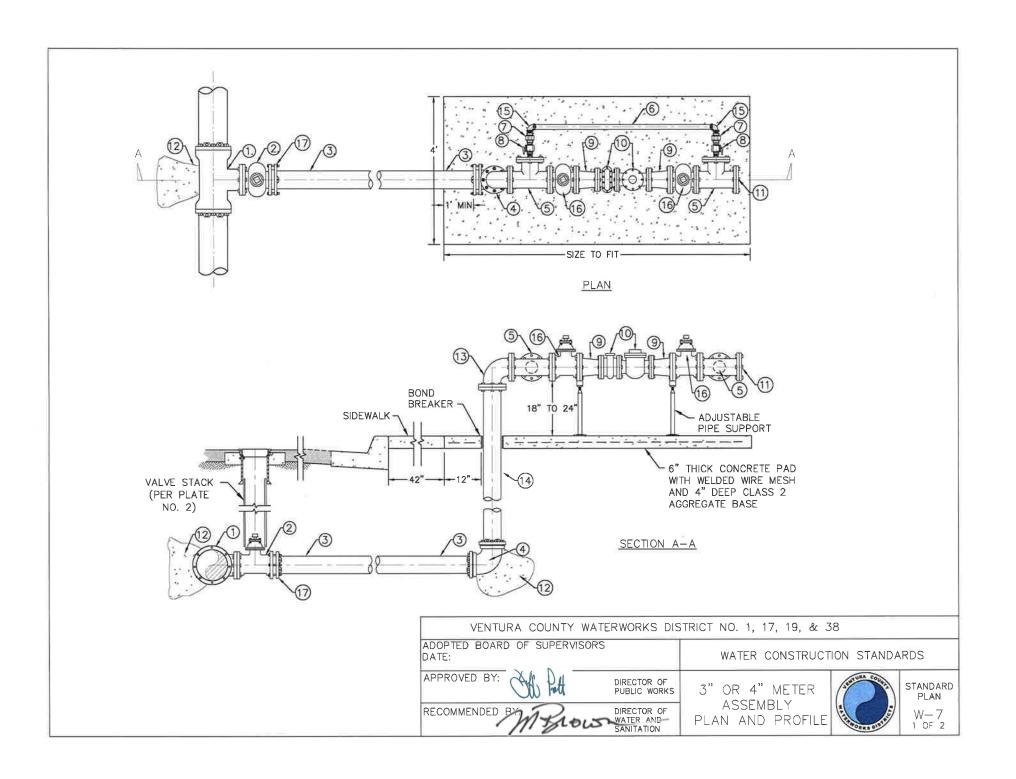
### CONSTRUCTION NOTES:

- 1) WATER METER FURNISHED BY DISTRICT.
  - 2" IP CUSTOMER HAND VALVE WITH HANDLE.
- 3.) 2" IP THREAD X COMPRESSION BALL CORPORATION STOP.
  - SERVICE SADDLE TO BE ANGLED BETWEEN 60' AND 45'.
- 2" TYPE K COPPER SERVICE LINE.
- 6.) 2" FIPT ANGLE METER STOP.
  - 2" MIPT X COMPRESSION ADAPTOR (TYP) WITH 2" IP BRASS 90° ELBOW.
- 8) 2" THREADED BRASS NIPPLE LENGTH TO FIT.
- DO NOT OVEREXCAVATE MAIN PIPELINE

\*DISTANCE FROM SIDEWALK IF NO PARKWAY STRIP

- JUMPER SHALL BE SUPPLIED BY THE DISTRICT AND INSTALLED BY THE OWNER'S CONTRACTOR.
- 2. FOR PARKWAY AND SIDEWALK CONSTRUCTION, DISTANCE TO R/W OR WHEN SLOPE INTERFERENCE EXISTS ANGLE METER STOP SHALL BE SET 18"
  BEHIND CURB ON 2" SERVICE.
- SOLDERING TO COPPER IS NOT ALLOWED TO EXTEND RUN ON COMPRESSION FITTINGS. USE SOLID PIECE OF PIPE.
- 4. CURRENT MATERIAL LIST AVAILABLE AT THE DISTRICT OFFICE.
- 5. NO METER BOX SHALL BE LOCATED WITHIN SIDEWALK AREA.
- 6. COPPER PIPE SHALL BE WRAPPED WITH POLYETHYLENE CASING (10 MIL.).
- 7. LOCATOR TAPE SHALL BE LAID ON TOP OF BEDDING MATERIAL.
- 8. METER BOX MUST ACCEPT AMR ANTENNAS.
- 9. NEW SERVICE SHALL BE 18" FROM OTHER SERVICES OR APPURTENANCES.

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38 ADOPTED BOARD OF SUPERVISORS WATER CONSTRUCTION STANDARDS DATE: APPROVED BY: DIRECTOR OF STANDARD 2" WATER METER PUBLIC WORKS PLAN SERVICE RECOMMENDED DIRECTOR OF W-6WATER AND INSTALLATION SANITATION



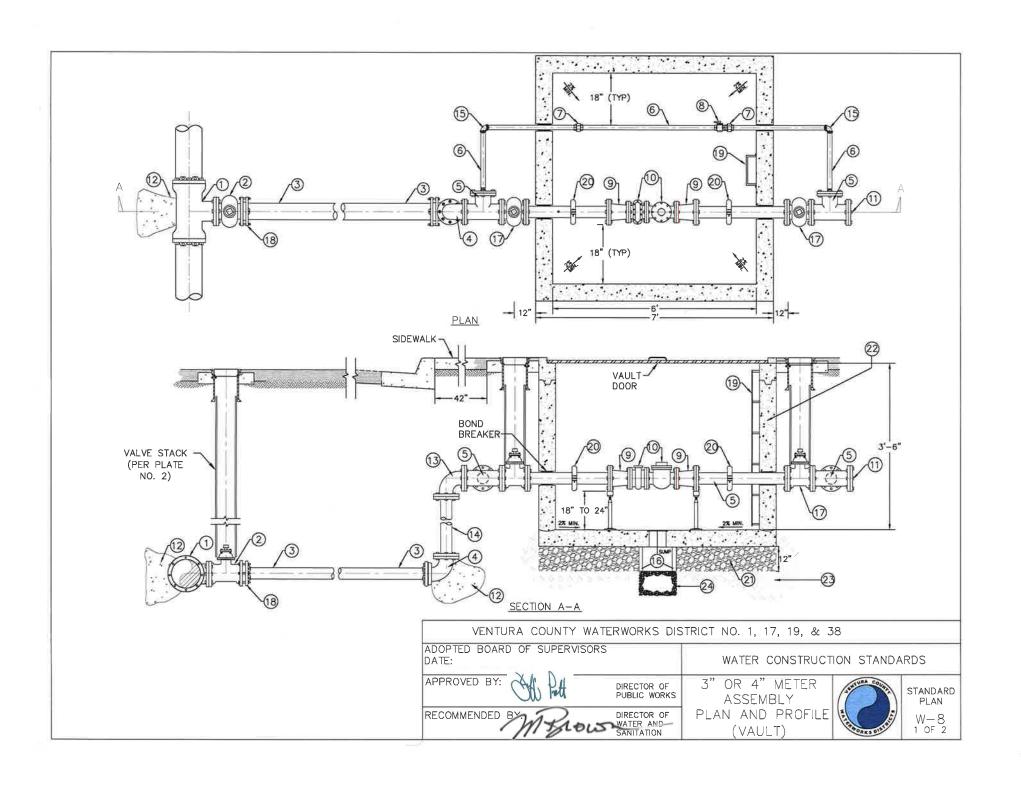
- (MAIN SIZE) MJ X 4" FLG DI TEE.
- (2) 4" RESILIENT WEDGE GATE VALVE, FLG X MJ.
- (3) 4" DI PIPE, CLASS 350
- (4) 4" DI 90° ELBOW, MJ X MJ.
- (5) 4" FLG TEE, W/ 4" X 2" COMPANION FLG.
- (6) 2" BRASS PIPE, BYPASS ASSEMBLY.
- (7) 2" BRASS UNION, FIPT X FIPT.
- (8) 2" BRASS BALL VALVE WITH LOCKING HANDLE.
- (9) 4" X 3" DI REDUCER, FLG X FLG FOR 3" ASSEMBLY ONLY.
- (10) WATER METER AND STRAINER ASSY. SIZE TO BE DETERMINED BY THE DISTRICT.
- (1) 4" BLIND FLANGE, CONNECT TO DOUBLE DETECTOR CHECK VALVE PER PLATE NO. W-13.
- (12) INSTALL THRUST BLOCK PER PLATE NO. W-19
- (13) 4" DI 90° FLG ELBOW FLG X FLG
- (14) 4" DI FLG SPOOL
- (15) 2" BRASS 90' ELBOW FIPT X FIPT
- (16) 4" RESILIENT WEDGE GATE VALVE, FLG X FLG.
- (17) 4" DI RESTRAINED FLANGE ADAPTOR.

### NOTES:

- THIS DETAIL IS FOR GENERAL INSTALLATION CONDITIONS ONLY. EACH INDIVIDUAL INSTALLATION SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
- 2. METER SIZE AND TYPE SHALL BE DETERMINED BY THE DISTRICT.
- 3. METER INSTALLATION IMPROVEMENTS BEYOND DISTRICT RIGHT-OF-WAY REQUIRE AN EASEMENT AS DIRECTED BY THE DISTRICT.
- 4. WHEN RETAINING WALL IS REQUIRED TO ACCOMMODATE GRADE VARIATIONS
  THE WALL SHALL BE CONSTRUCTED PER SSPWC STANDARDS AND SHOULD
  PROVIDE PROPER CLEARANCE FROM THE IMPROVEMENTS.
- 5. CURRENT MATERIAL LIST IS AVAILABLE AT THE DISTRICT OFFICE.
- 6. ABOVE GROUND PORTION OF ASSEMBLY SHALL BE PAINTED FOREST GREEN.
- 7. ABOVE GROUND FITTINGS SHALL BE BRASS/STAINLESS

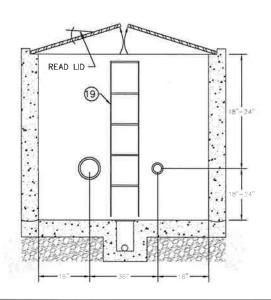
METER SIZE	STRAINER LENGTH	METER LENGTH
3"	7"	12"
4"	9"	14"

VENTURA COUNTY WA	TERWORKS DIS	TRICT NO. 1, 17, 19, & 3	38	
 ADOPTED BOARD OF SUPERVISOR DATE:	S	WATER CONSTRUCT	TION STANDA	\RDS
APPROVED BY:	DIRECTOR OF PUBLIC WORKS	3" OR 4" METER	SHITUMA SOUTH	STANDARD PLAN
RECOMMENDED BY:	DIRECTOR OF WATER AND SANITATION	ASSEMBLY PLAN AND PROFILE	The state of the s	W-7 2 OF 2



- THIS DETAIL IS FOR GENERAL INSTALLATION CONDITIONS ONLY. EACH INDIVIDUAL INSTALLATION SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
- METER SIZE AND TYPE SHALL BE DETERMINED BY THE DISTRICT.
- 3. METER INSTALLATION IMPROVEMENTS BEYOND DISTRICT RIGHT—OF—WAY REQUIRE AN EASEMENT AS DIRECTED BY THE DISTRICT.
- 4. WHEN RETAINING WALL IS REQUIRED TO ACCOMMODATE GRADE VARIATIONS THE WALL SHALL BE CONSTRUCTED PER SSPWC STANDARDS AND SHOULD PROVIDE PROPER CLEARANCE FROM THE IMPROVEMENTS.
- 5. CURRENT MATERIAL LIST IS AVAILABLE AT THE DISTRICT OFFICE.
- 6. ASSEMBLY SHALL BE FOREST GREEN.
- 7. 4" INSTALLATION MAY REQUIRE A SHORT SPOOL TO ADAPT TO ASSEMBLY.

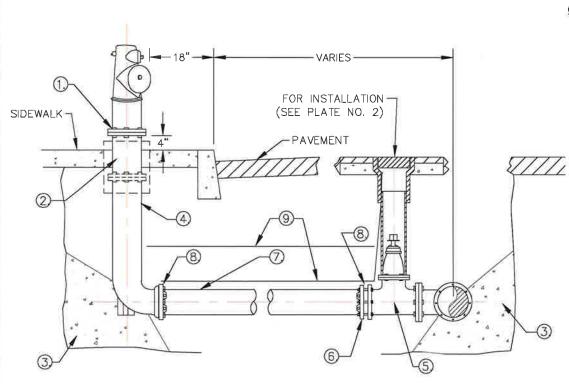
METER SIZE	STRAINER LENGTH	METER LENGTH	PRECAST VAULT INSIDE DIMENSION
3"	7"	12"	6' X 6'
4"	9"	14"	6' X 6'



### CONSTRUCTION NOTES:

- (1.) (MAIN SIZE) X 4" MJ X FLG CI TEE.
- (2.) 4" RW GATE VALVE, FLG X MJ.
- (3.) 4" DI PIPE, CLASS 52.
- (4.) 4" CI 90° ELBOW, FLG X MJ.
- (5.) 4" TEE, FLG X FLG W/ 4" X 2" COMPANION FLG.
- (6.) 2" BRASS PIPE, BYPASS ASSEMBLY.
- (7.) 2" BRASS UNION, FIPT X FIPT.
- (8.) 2" BRASS BALL VALVE WITH LOCKING HANDLE.
- (9.) 4" X 3" CI REDUCER, FLG X FLG FOR 3" ASSEMBLY ONLY.
- (0) WATER METER AND STRAINER ASSY. SIZE TO BE DETERMINED BY THE DISTRICT.
- (1) 4" BLIND FLANGE, CONNECT TO DOUBLE DETECTOR CHECK VALVE PER PLATE NO.W-12
- (2) INSTALL THRUST BLOCK PER (500-C-2500 PCC).
- (3) 4" CI 90' ELBOW FLG X FLG
- (4) 4" DI SPOOL FLG X FLG
- (5) 2" BRASS 90° ELBOW FIPT X FIPT
- (6) INSTALL 24" x 24" CONCRETE BOX FOR FLOOR DRAIN.
- (7) 4" RW GATE VALVE, FLG X FLG.
- (8) 4" DI FLEX COUPLING OR MJ SLEEVE.
- (19.) STAINLESS STEEL LADDER.
- (0) 4" VICTAULIC COUPLING.
- (21) 3/4" CRUSHED AGGREGATE BASE @ 95% COMPACTION.
- 22) SUBMIT PRECAST VAULT OR ENGINEERED VAULT DESIGN FOR APPROVAL.
- (3) OVEREXCAVATE 12" AND COMPACT TO 90% AT LEAST 1' OUTSIDE OF THE VAULT FOOTPRINT
- (4) 3/4" LOOSE CRUSHED AGGREGATE BASE.

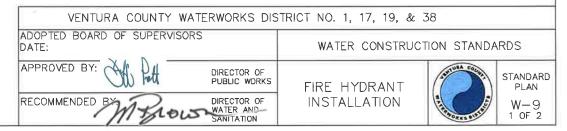
VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38 ADOPTED BOARD OF SUPERVISORS WATER CONSTRUCTION STANDARDS DATE: APPROVED BY: 3"-OR 4" METER DIRECTOR OF STANDARD PUBLIC WORKS ASSEMBLY PLAN PLAN AND PROFILE RECOMMENDED DIRECTOR OF W - 8WATER AND (VAULT) 2 OF 2

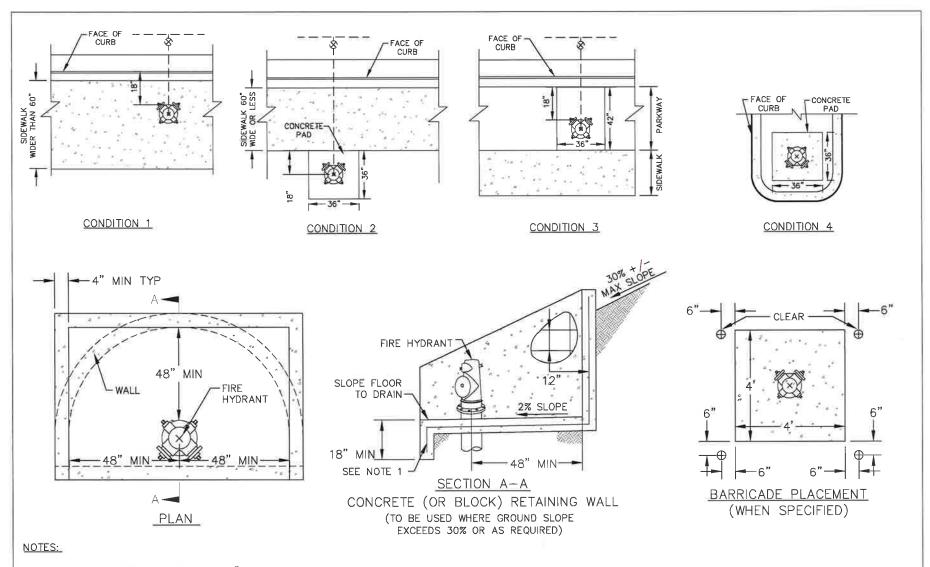


- 1 USE ZINK PLATED, DRILLED BREAK-AWAY BOLTS (BOLT FACING UP) WITH SILICONE SEALANT. HYDRANT GASKETS SHALL BE FULL FACE AND RUBBER COMPOSITION.
- ② DO NOT USE BREAK-AWAY SPOOLS OR BOLTS IN CONCRETE IF ADJUSTING SPOOLS ARE NEEDED.
- (3) INSTALL THRUST BLOCK PER PLATE NO. W-19.
- (4) INSTALL 6" FLG X MJ DI BURY.
- $\swarrow$  (5) INSTALL 6" FLG RESILIENT WEDGE GATE VALVE.
  - (6) RESTRAINED FLANGE ADAPTOR.
  - 7) IF THE STATIC WATER PRESSURE AT THE POINT OF HYDRANT INSTALLATION EXCEEDS 130 PSIG, PIPE SHALL BE CLASS 350 D.I.P.
  - (8) ALL JOINTS AND FITTINGS SHALL BE RESTRAINED.
  - (9) LOCATING WIRE AND MARKING TAPE SHALL BE USED PER VCWWD STD. PLATE W-1.

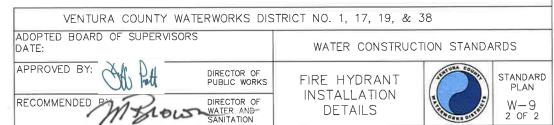
### NOTES:

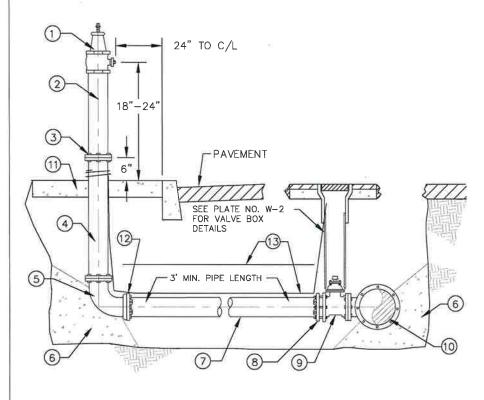
- FIRE HYDRANT CAPS AND OPERATOR STEMS SHALL BE EQUIPPED WITH OPERATOR NUTS MEASURING 1-3/4" POINT TO FLAT.
- 2. FIRE HYDRANT SHALL BE PAINTED SAFETY YELLOW.
- NO PART OF THE HYDRANT FLANGE, BURY FLANGE OR ADJUSTING SPOOL FLANGE SHALL BE WITHIN THE CONCRETE SIDEWALK.
- 4. CURRENT MATERIAL LIST FOR APPROVED HYDRANTS AND APPURTENANCES ARE AVAILABLE AT THE DISTRICT OFFICE.
- 5. 4" OUTLET SHALL BE PERPENDICULAR TO THE CURB LINE.
- 6. INSTALLATION IN AREAS NOT IN SIDEWALK REQUIRE
- 7. 42" X 42" X4" CONCRETE PAD.
- 8. ALL SUB-GRADE INSTALLATIONS SHALL BE WRAPPED IN 10 MIL. POLYETHYLENE WRAP.





- 1. ALL REBAR SHALL BE NO. 4 @ 12" O.C., CONCRETE BLOCK MAY BE SUBSTITUTED FOR WALL SECTION.CONSULT LOCAL BUILDING AND SAFETY FOR ALL WALLS HIGHER THAN 30". CONSULT LOCAL AUTHORITY FOR SIDEWALK BUMP-OUT IN CONDITION 2.
- 2. BARRICADES SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 306-10.5
- 3. LOCATION OF FRONT BARRICADES SHALL BE ADJUSTED TO PROVIDE CLEARANCE FOR DISCHARGE PIPING.





2-1/2" x 4" PERMANENT LINE BLOW-OFF

NOT TO SCALE

- (1) 4" WHARF HEAD FIRE HYDRANT.
- (2) 4" BRASS OR STAINLESS STEEL NIPPLE, MIPT X MIPT.
- 3 4" COMPANION FLANGE X FIPT, (USE DRILLED BREAK AWAY BOLTS FACING UP, SILICONE FILLED).
- (4) 4" DI FLG SPOOL
- (5) 4" DI 90" BASE ELBOW, FLG X MJ.
- (6) INSTALL THRUST BLOCK PLATE NO. W-19.
- (7) 4" CL 350 DI PIPE.
- (8) 4" DI RESTRAINED FLANGE ADAPTOR.
- (10) (MAIN SIZE) MJ X 4" FLG TEE.
- (11) INSTALL 24" X 24" CONCRETE PAD.
- (12) ALL JOINTS AND FITTINGS SHALL BE RESTRAINED.
- (3) LOCATING WIRE AND MARKING TAPE SHALL BE USED PER VCWWD STD. PLATE W-1.

### NOTES:

- FOR DEAD END BLOW-OFF USE 4" REDUCER IN PLACE OF TEE.
   FOR ROADS WITHOUT CURBS, BLOW-OFFS SHALL BE LOCATED WITHIN THE ROAD RIGHT-OF-WAY, ONE FOOT CLEAR FROM PROPERTY LINE.
- HYDRANT AND RISER SHALL BE PAINTED WITH DESERT TAN IN ACCORDANCE VCWWD STANDARD SPECS.
- 3. NO PART OF THE BLOW-OFF FLANGE OR ADJUSTING SPOOL FLANGE SHALL BE WITHIN THE CONCRETE SIDEWALK.
- 4. PIPE SHALL BE WRAPPED WITH POLYETHYLENE CASING (10 MIL.).
- 5. LOCATOR TAPE SHALL BE LAID ON TOP OF SHADING MATERIAL.
- 6. CURRENT MATERIAL LIST AVAILABLE AT DISTRICT OFFICE.

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS
DATE:

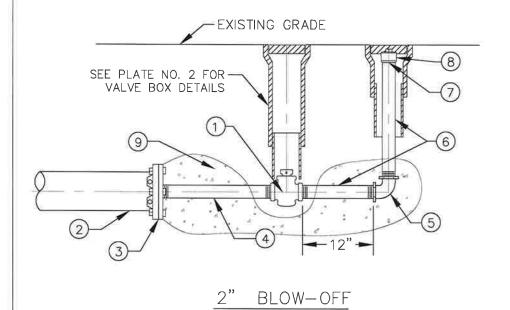
WATER CONSTRUCTION STANDARDS

APPROVED BY:

DIRECTOR OF PUBLIC WORKS

RECOMMENDED BY:

DIRECTOR OF WATER AND
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- (1) 2" ORISEAL VALVE, FIPT X FIPT.
- 2 WATER MAINLINE, SIZE VARIES.
- (3) RESTRAINED MJ CAP WITH 2" FIPT TAP.
- 4 2" BRASS NIPPLE THROUGH CONCRETE (NOTE: <u>DO NOT</u> ENCASE THE ORISEAL VALVE IN CONCRETE.
- (5) 2" 90° BRASS ELBOW, FIPT X FIPT.
- (6) 2" BRASS NIPPLE.
- 7 2" BRASS COUPLING, FIPT X FIPT.
- (8) 2" BRASS SQUARE HEAD PLUG, MIPT
- (9) INSTALL THRUST BLOCK PER PLATE NO. W-19.

### NOTES:

- 1. FOR ROADS WITHOUT CURBS, BLOW-OFFS SHALL BE LOCATED WITHIN THE ROAD RIGHT-OF-WAY, ONE FOOT CLEAR FROM PROPERTY LINE.
- 2. PIPE SHALL BE WRAPPED WITH POLYETELYNE CASING (10 MIL.)
- 3. CURRENT MATERIAL LIST AVAILABLE AT DISTRICT OFFICE.

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS
DATE:

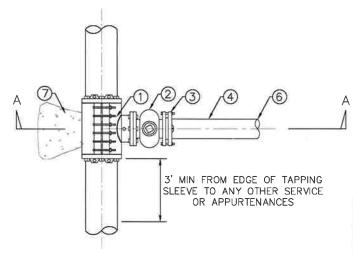
WATER CONSTRUCTION STANDARDS

PUBLIC WORKS

TEMPORARY
2" BLOW OFF
INSTALLATION

WHITE AND
WATER AND
WATE

## VALVE STACK (PER PLATE NO. W-2) PROFILE A-A



PLAN

### CONSTRUCTION NOTES:

- (1.) MECHANICAL JOINT TAPPING SLEEVE.
- (2) GATE VALVE, FLG. X MJ.
- MJ GLAND WITH RESTRAINER.
- 4.) 3-FOOT SECTION OF DI. PIPE CLASS 350.
- (5.) FLEXIBLE COUPLING.
- PROPOSED PIPE RUN.
- (7) CONCRETE THRUST BLOCK PER PLATE NO. W-19.

### NOTES:

- 1. THIS DETAIL IS FOR GENERAL INSTALLATION CONDITIONS ONLY. EACH INDIVIDUAL INSTALLATION SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
- 2.USE ONLY WHEN TAP IS ONE-HALF THE DIAMETER OR LESS THAN THE MAINLINE.
- 3.MECHANICAL TAPPING SLEEVE TO BE TESTED AT 150 PSI PRIOR TO ACTUAL TAPPING.
- 4.ALL SUB-GRADE INSTALLATIONS SHALL BE WRAPPED IN 10 MIL. POLYETHYLENE WRAP.
- 5.CURRENT MATERIAL LIST IS AVAILABLE AT THE DISTRICT OFFICE.
- 6.POTHOLING REQUIRED PRIOR TO CONSTRUCTION.

  POTHOLE REPORT TO BE SUBMITTED TO THE DISTRICT 48

  HOURS PRIOR TO TAPPING THE MAIN.

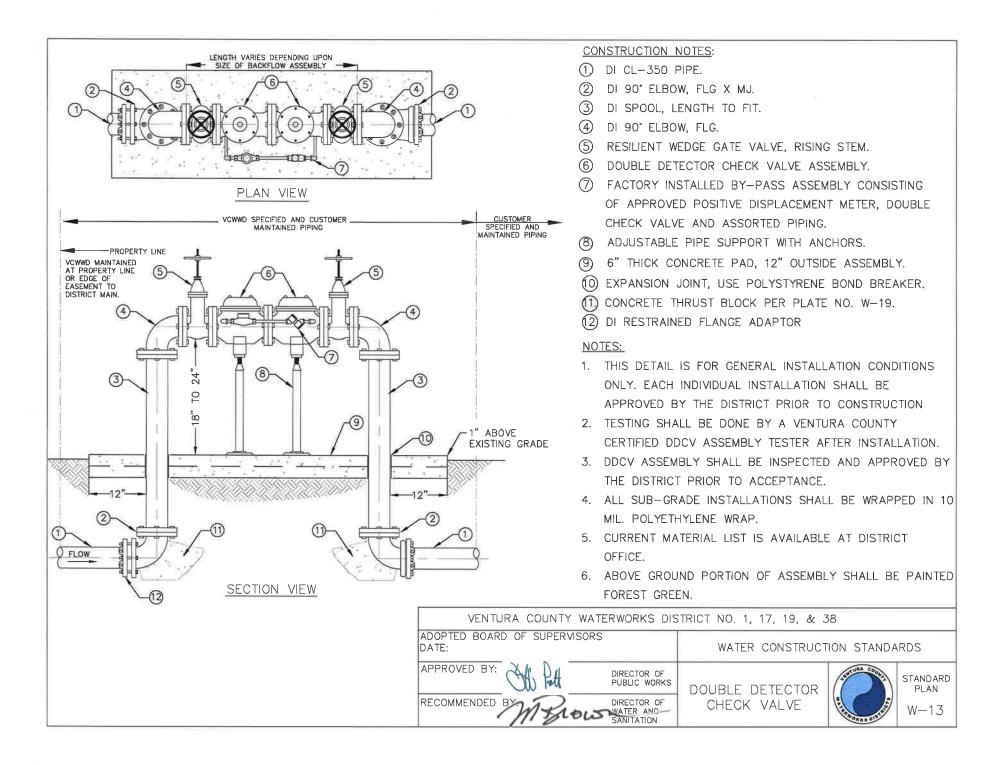
VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

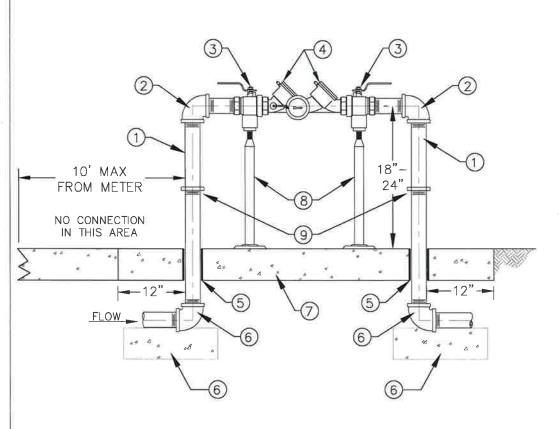
ADOPTED BOARD OF SUPERVISORS
DATE:

WATER CONSTRUCTION STANDARDS

WECHANICAL
TAPPING SLEEVE
DETAIL

W—12



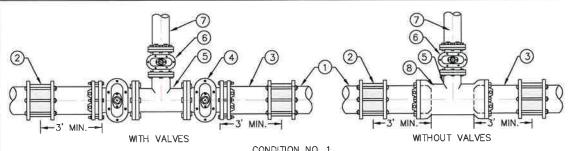


- (1) RIDGED BRASS PIPE.
- (2) 90° BRASS ELBOW, FIPT X FIPT.
- (3) BALL VALVE, FIPT X FIPT.
- (4) REDUCED PRESSURE BACKFLOW DEVICE.
- (5) POLYSTYRENE BOND BREAKER
- 6 12"x12"x6" THICK CONCRETE SUPPORT (500-C-2500 PCC).
- (7) 6" THICK CONCRETE PER PLATE NO. W-19.
- (8) ADJUSTABLE PIPE SUPPORTS WITH 304 STAINLESS STEEL ANCHORS, FOR 2" AND ABOVE IF DETERMINED BY THE FIELD REPRESENTATIVE.
- (9) BRASS UNION FITTING

### NOTES:

- THIS DETAIL IS FOR GENERAL INSTALLATION CONDITIONS ONLY. EACH INDIVIDUAL INSTALLATION SHALL BE APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
- METER SIZE AND TYPE SHALL BE DETERMINED BY THE DISTRICT.
- THE DEVICE SHALL BE TESTED BY AN APPROVED TESTER PRIOR TO ACCEPTANCE.
- MAINTAIN 18" CLEARANCE FROM REDUCED PRESSURE BACKFLOW DEVICE RELIEF OUTLET TO CONCRETE PAD.
- BACKFLOW ASSEMBLY SHALL BE A MINIMUM OF 36" FROM ANY STRUCTURE, CURB, OR SIDEWALK.
- 6. SEE VCWWD SPECIFICATIONS FOR COLOR COATINGS.
- BRASS PLUGS SHALL BE PLACED IN ALL TEST VALVE OUTLETS.
- 8. ALL SUB-GRADE INSTALLATIONS SHALL BE WRAPPED IN 10 MIL. POLYETHYLENE CASING.
- CURRENT MATERIAL LIST IS AVAILABLE AT THE DISTRICT OFFICE.
- 10. MULTIPLE BACKFLOW DEVICES IN THE SAME VICINITY SHALL BE THE SAME HEIGHT
- 11. ABOVE GROUND PORTION OF ASSEMBLY SHALL BE PAINTED FOREST GREEN.

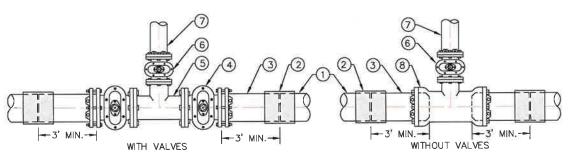
VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38 ADOPTED BOARD OF SUPERVISORS DATE: WATER CONSTRUCTION STANDARDS APPROVED BY: DIRECTOR OF STANDARD 1" OR 2" PUBLIC WORKS PLAN REDUCED PRESSURE RECOMMENDED DIRECTOR OF W - 14WATER AND BACKFLOW DEVICE SANITATION



CONDITION NO. 1
TEE - TYPICAL CONNECTION FOR AC PIPE

### CONDITION # 1 CONSTRUCTION NOTES:

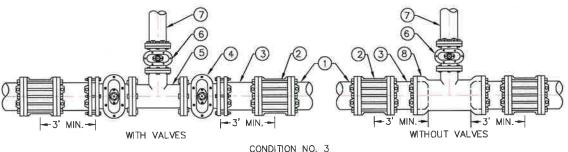
- EXISTING PIPE.
- (2) TRANSITION COUPLING (ROMAC OR EQUIVALENT)
- (3) 3' SECTION, PVC C-900 DR 14 (NO BEVEL END).
- MAIN SIZE-IN LINE VALVE, FLG X MJ WITH RESTRAINER.
- (5) TEE, MAIN SIZE X LATERAL SIZE, FLG X FLG.
- 6 LATERAL VALVE, FLG X MJ.
- 7) LATERAL PIPE
- 8) TEE, MAIN SIZE X LATERAL SIZE, MJ X FLG.



CONDITION NO. 2
TEE - TYPICAL CONNECTION FOR PVC

### CONDITION # 2 CONSTRUCTION NOTES:

- EXISTING PIPE.
- 2 PVC SLIP COUPLING, PIPE SIZE.
- (3) 3' SECTION MILLED END, PVC C-900 DR 14.
- (4) MAIN SIZE-IN LINE VALVE, FLG X MJ WITH RESTRAINER.
- TEE, MAIN SIZE X LATERAL SIZE, FLG X FLG.
- (6) LATERAL VALVE, FLG X MJ.
- 7), LATERAL PIPE
- (8) TEE, MAIN SIZE X LATERAL SIZE, MJ X FLG.



TEE - TYPICAL CONNECTION FOR DUCTILE IRON PIPE

### CONDITION # 3 CONSTRUCTION NOTES:

- 1) EXISTING PIPE.
- 2) SOLID DUCTILE IRON MJ SLEEVE WITH RESTRAINER.
- (3) 3' SECTION DUCTILE IRON CLASS 350.
- (4) MAIN SIZE-IN LINE VALVE, FLG X MJ WITH RESTRAINER.
- (5) TEE, MAIN SIZE X LATERAL SIZE, FLG X FLG.
- (6) LATERAL VALVE, FLG X MJ.
- (7) LATERAL PIPE
- (8) TEE, MAIN SIZE X LATERAL SIZE, MJ X FLG.

### NOTES:

- WATER MAINS IN PUBLIC STREETS SHALL BE LOCATED PARALLEL TO AND 5 FT NORTH OR WEST OF THE CENTER LINE OF THE STREET.
- WRAP ALL METALLIC APPURTENANCES WITH 10 MIL. POLYETHYLENE ENCASEMENT PER VCWWD CONSTRUCTION STANDARDS.
- SEE PLATE NO. 19 FOR ANCHOR BLOCKS AND THRUST BLOCK DETAILS.
- 4. SEE PLATE NO. 2 FOR VALVE BOX DETAILS.
- COUPLINGS SHALL BE A MINIMUM OF 18" AWAY FROM ANY SERVICE OR APPURTENANCE.

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS

DATE:

APPROVED BY:

RECOMMENDED.

DIRECTOR OF PUBLIC WORKS

SANITATION

PUBLIC WORKS CUT-IN

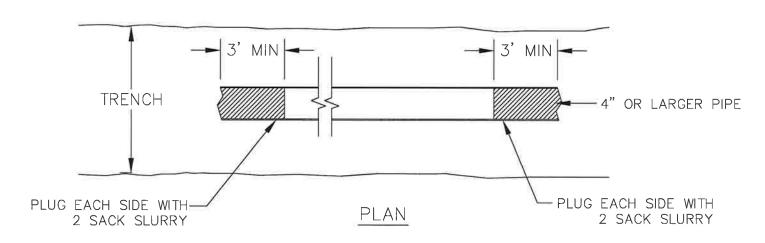
DIRECTOR OF WATER AND DIE

CUT—IN TEE FOR PVC, AC, AND DI PIPE



WATER CONSTRUCTION STANDARDS

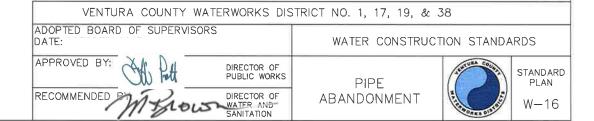
STANDARD PLAN W-15

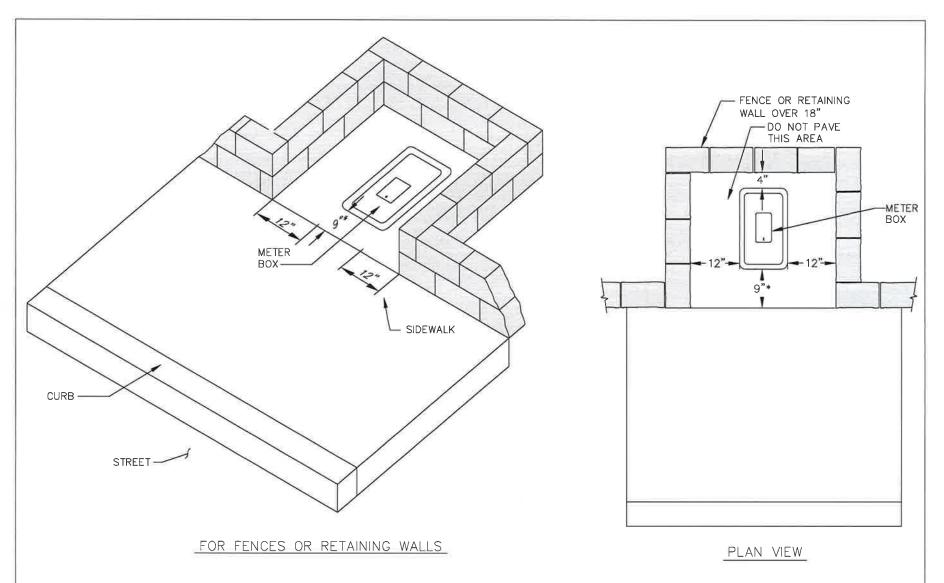


### DETAIL FOR CUTTING AND PLUGGING ABANDONED WATER MAINS

### NOTES:

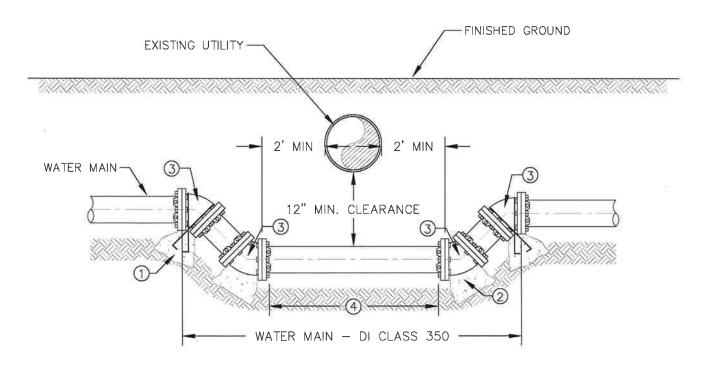
 FOR PIPES SMALLER THAN 4" - CRIMP ENDS AND ABANDON IN PLACE





\* DIMENSION IS APPROXIMATE. INSTALL ACCORDING TO WATER METER PLATE.

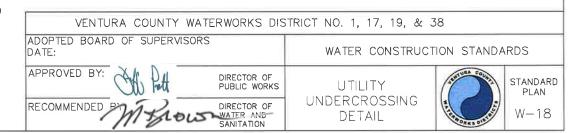
VENTURA COUNTY	WATERWORKS DIS	STRICT NO. 1, 17, 19, & 3	38	
ADOPTED BOARD OF SUPERVIDATE:	SORS	WATER CONSTRUCT	TION STANDA	\RDS
APPROVED BY:	DIRECTOR OF PUBLIC WORKS	METER BOX	YHITUM SOUTH	STANDARD PLAN
RECOMMENDED BY	DIRECTOR OF WATER AND SANITATION	CLEARANCE DETAILS	THE PARTY OF THE P	W-17

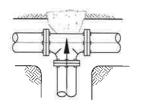


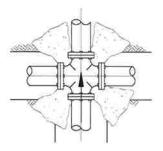
- 1. USE DUCTILE IRON (RETAINER TYPE) MECHANICAL JOINT
- 2. USE DUCTILE IRON PIPE, CLASS 350 THROUGHOUT.
- 3. SEPARATION DISTANCE IS DETERMINED BY THE TYPE OF OBSTRUCTION BEING CROSSED, REFER TO STATE WATER RESOURCE CONTROL BOARD WATER AND SEWER SEPARATION REQUIREMENTS.
- 4. SEE PLATE NO. W-1 FOR TRENCH DETAILS.
- AIR RELEASE AND VACUUM BREAKER VALVE AND/OR BLOW-OFF MAY BE REQUIRED AT THE DISTRICT'S DISCRETION.
- 6. CURRENT MATERIAL LIST IS AVAILABLE AT THE DISTRICT OFFICE
- PIPE SHALL BE WRAPPED WITH POLYETHYLENE CASING (10 MIL.).

### CONSTRUCTION NOTES:

- (1.) INSTALL ANCHOR BLOCK PER STD. PLATE NO. 19 (TYP. 2 PLACES).
- (2.) INSTALL THRUST BLOCK PER STD. PLATE NO. 19 (TYP. 2 PLACES).
- (3) INSTALL 45° ELBOW, MJ X MJ WITH RESTRAINER GLAND (TYP. 4 PLACES).
- 4. LENGTH PER STATE WATER RESOURCE CONTROL BOARD REQUIREMENTS.

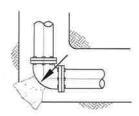


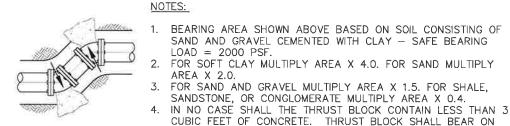


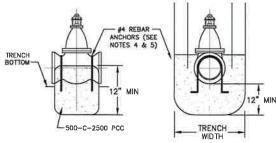


END OF LINE

#4 REINFORCING BARS IMBEDDED 6" MIN (SEE NOTE 7)







### VALVE ANGLIOD

			VAL	VE ANCE	HOR							1	8*	70	7,4	22347	8	7	14.1	43835
PIPE		11 1	/4" BENI	D		22 1	/2" BEN	D		4	5° BEND			90. BE	ND / CR	OSSES		END C	F LINE /	TEES
SIZE	L (IN)	H (IN)	AREA (IN <sub>2</sub> )	THRUST (LBS)	(IN)	H (IN)	AREA (IN <sub>2</sub> )	THRUST (LBS)	(IN)	H (IN)	AREA (IN <sub>2</sub> )	THRUST (LBS)	(IN)	H (IN)	AREA (IN <sub>2</sub> )	THRUST (LBS)	(IN)	H (IN)	AREA (IN <sub>2</sub> )	THRUST (LBS)
4"	12	6	72	554	16	8	128	1104	23	12	276	2165	31	16	496	4000	26	13	338	2828
6"	17	9	153	1248	24	12	288	2483	34	17	578	4871	46	23	1058	9000	39	20	780	6364
8"	23	12	278	2218	32	16	512	4414	45	23	1035	8659	61	31	1891	15999	52	26	1352	11313
10"	29	15	435	3465	40	20	800	6897	56	28	1568	13529	76	38	2888	24999	64	32	2048	17677
12"	34	17	578	4990	48	24	1152	9932	67	34	2278	19482	92	46	4232	35999	77	-39	3003	25455
16"	46	23	1058	8871	64	32	2048	17657	90	45	4050	34635	122	61	7442	63998	103	52	5356	45253
18"	51	26	1326	11228	72	36	2592	22347	101	.51	5151	43835	137	69	9453	80997	115	.58	667D	57274

### VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

LOAD = 2000 PSF.

UNDISTURBED EARTH.

9. CONCRETE SHALL BE 500-C-2500PCC

PRESSURE WITH 3'-0" COVER MINIMUM.

AREA X 2.0.

BOLTS.

ADOPTED BOARD OF SUPERVISORS

DATE:

APPROVED BY:

DIRECTOR OF PUBLIC WORKS

THRUST AND ANCHOR BLOCK **DETAILS** 

SAND AND GRAVEL CEMENTED WITH CLAY - SAFE BEARING

SANDSTONE, OR CONGLOMERATE MULTIPLY AREA X 0.4.

6. ANCHOR IS NOT REQUIRED FOR 6" VALVES OR SMALLER. 7. COAT REBARS WITH APPROVED BITUMASTIC COMPOUND. 8. FOR FLANGED AND MECHANICAL VALVES, KEEP CONCRETE OFF

12. THRUST BLOCK BEARING AREA BASED ON 225 PSI LINE

22 1/2" BEND L, H, AND W (IN)

26

34

41

47

53

SIZE

4\*

10. RESTRAIN ALL JOINTS FOR SLOPES 30 DEGREES OR STEEPER. 11. DEAD ENDS SHALL HAVE A 3' PUP WITH AN MJ CAP.

CUBIC FEET OF CONCRETE. THRUST BLOCK SHALL BEAR ON

DO NOT INTERPOLATE BEARING AREA FOR FITTINGS NOT SHOWN.

VERTICAL BEND ANCHOR

L, H, AND

W (IN)

51

TUDITET

(LBS)

1104

2483

4414

6897

9932

17657

WATER CONSTRUCTION STANDARDS

VOLUME

(YD')

0.4

0.8

1.5

2.2 3.2



STANDARD PLAN W - 19

VOLUME (YD')

0.7

1.6

2.B

4.4

6.4

THRUST

(LBS)

2165

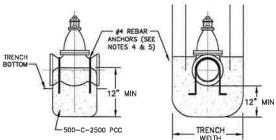
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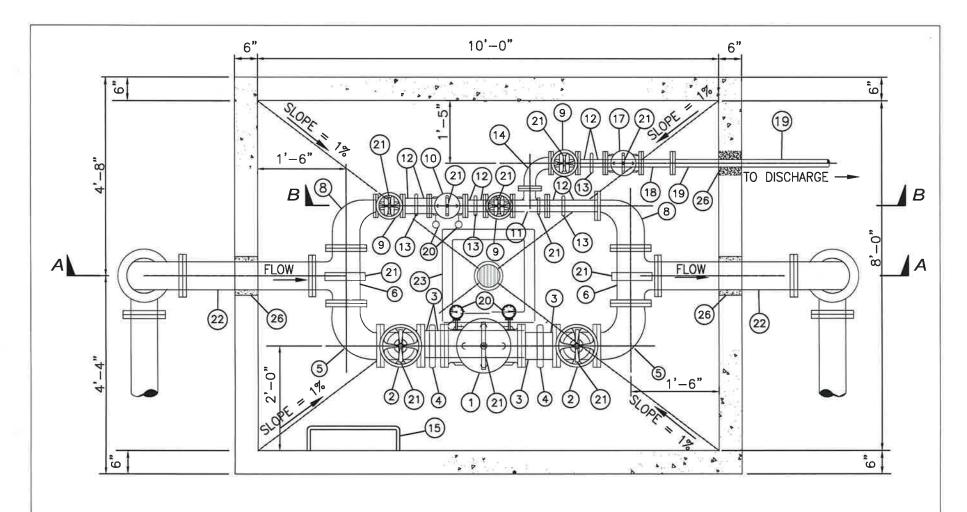
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AREA OF THRUST DEVICE TO BE APPROVED BY THE DISTRICT ENGINEER FOR THIS TYPE OF APPLICATION

ANCHOR BLOCK

DIRECTOR OF WATER AND SANITATION

RECOMMENDED

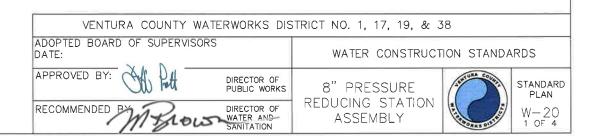


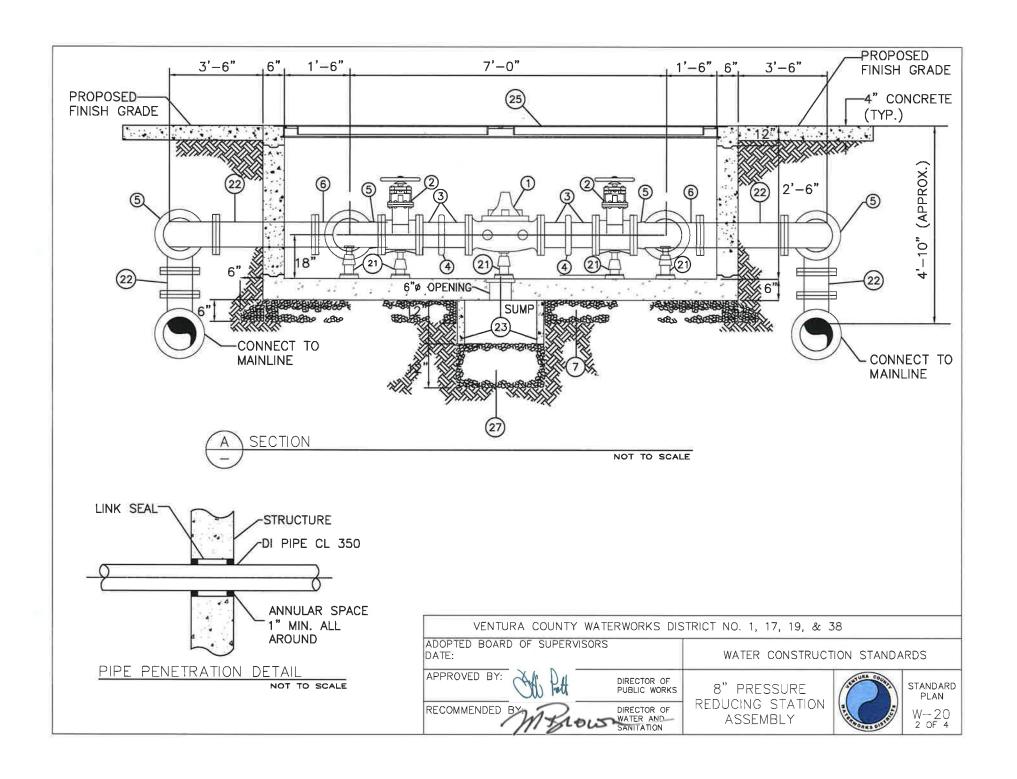
PRESSURE REDUCING STATION PLAN

NOT TO SCALE

### NOTES:

- CONTRACTOR TO VERIFY LAY LENGTH AND SIZE OF FITTINGS
- ASSURE PRESSURE RELIEF DISCHARGE LINE WITHIN VAULT WILL DRAIN TO THE LOWEST ELEVATION.

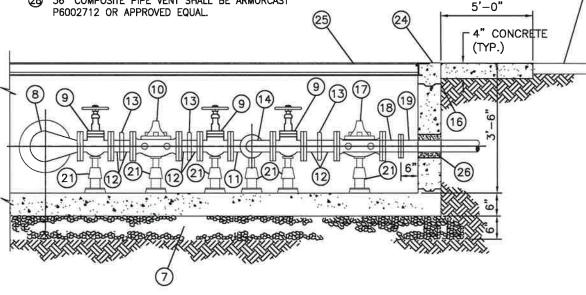




- (1) 8" PRESSURE REDUCING VALVE
- (2) 8" FLG. GATE VALVE
- (3) 8" SPOOL FLG. x GROOVED END
- (4) 8" VICTAULIC COUPLING
- (5) 8" 90° FLG. ELBOW
- (6) 8" FLG. TEE
- (7) 3/4" CRUSHED AGGREGATE BASE @ 95% COMPACTION
- 8" x 4" 90' FLG. REDUCING ELBOW
- (9) 4" FLG. GATE VALVE
- 4" PRESSURE REDUCING VALVE
- 4" FLG. TEE
- 4" FLG. X GROOVED END
- (13) 4" VICTAULIC COUPLING
- (14) 4" 90° FLG. ELBOW
- (15) STAINLESS STEEL STEPS PER APWA STD. PLAN 635-3
- CONSTRUCTION JOINT
- (17) 4" PRESSURE RELIEF VALVE (CLA-VAL)
- (18) 4" FLG. SPOOL
- 4" BRASS PIPE SCH. 40

NOTE: PLAN SHALL SERVE AS A DESIGN GUIDE FOR ALTERNATIVE PRESSURE REDUCING STATIONS OF SMALLER OR LARGER SIZE THAN THE 8" ASSEMBLY DEPICTED.

- (20) GLYCERIN FILLED PRESSURE GAUGE 0-200 PSI WITH 1/4 GA, COCK
- (21) ADJUSTABLE PIPE SUPPORT FOR ALL VALVES AND TEES
- (22) 8" D.I. CL. 350 FLG. SPOOL
- (23) 24" x 24" CONCRETE BOX
- PRECAST CONCRETE VAULT 10'-0" X 8'-0" X 3'-6" (INSIDE DIMENSIONS)
- ALUMINUM ACCESS COVER (2 PC. 10'-0" X 8'-0") U.S.F FABRICATION, INC. WITH STAINLESS STEEL NUTS & BOLTS, HINGES AND HOLD OPEN ARM. STAPLE FOR DOOR PADLOCK. DIAMOND PLATE 1/4 - 300 PSF.(OR APPROVED EQUAL)
- (26) CONCRETE KNOCKOUT (TO BE GROUTED SOLID AFTER PIPE INSTALLATION)
- (27) 3/8" PEA GRAVEL
- 36" COMPOSITE PIPE VENT SHALL BE ARMORCAST



SECTION

NOT TO SCALE

WATER CONSTRUCTION STANDARDS

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS

DATE:

DIRECTOR OF PUBLIC WORKS

8" PRESSURE REDUCING STATION **ASSEMBLY** 



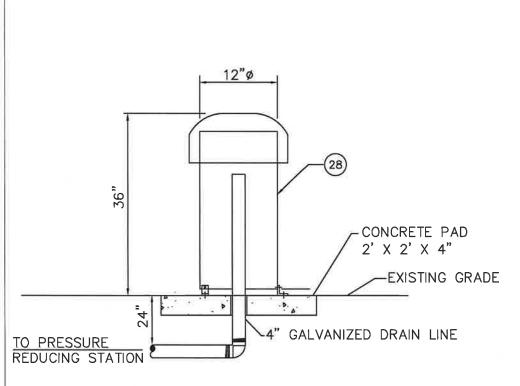
EXISTING GRADE -

STANDARD PLAN W - 203 OF 4

RECOMMENDED E

APPROVED BY:

DIRECTOR OF WATER AND



9'-0" 4'-0" 24 4'-0" 6"ø SUMP

DRAIN DISCHARGE ASSEMBLY DETAIL
(INSTALL BEHIND CURB)

PRESSURE REDUCING VAULT

 $8'-0" \times 10'-0" \times 3'-6"$ 

NOT TO SCALE

VENTURA COUNTY WATERWORKS DISTRICT NO. 1, 17, 19, & 38

ADOPTED BOARD OF SUPERVISORS

DATE:

DIRECTOR OF PUBLIC WORKS

RE RE

8" PRESSURE REDUCING STATION ASSEMBLY



WATER CONSTRUCTION STANDARDS

STANDARD PLAN W-20 4 OF 4

APPROVED BY:

RECOMMENDED

PUBLIC WORKS

DIRECTOR OF WATER AND SANITATION

