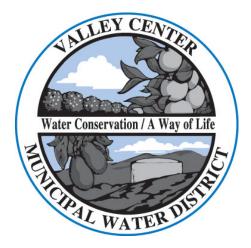
VALLEY CENTER MUNICIPAL WATER DISTRICT

STANDARD DRAWINGS Water



Latest Revision: APRIL 2022

29300 Valley Center Road - P.O. Box 67 Valley Center, CA 92082 (760) 735-4500

Water Standard Drawings Table of Contents APRIL 2022

Latest Revision

W-1	Standard Symbols, Abbreviations & Legends	MARCH 2020
W-2	Typical Installation for Water Main Appurtenances	MARCH 2020
W-3	¾" and 1" Water Service	OCTOBER 2021
W-3A	¾" Domestic & 1" Fire Water Service	JANUARY 2022
W-4	1 ¹ / ₂ " or 2" Water Service	OCTOBER 2021
W-5	3" Water Service	OCTOBER 2021
W-6	3" Water Service Manifold Assembly	OCTOBER 2021
W-7	1 ½" or 2" Fire Service	OCTOBER 2021
W-8	4" and Larger Fire Service Installation (sht 1 & 2)	OCTOBER 2021
W-9	2" Blow off Assembly	MARCH 2020
W-10	End of Line 1" Air Vacuum & 2" Blow Off Combinations	JANUARY 2022
W-10A	1" Air Vacuum & 2" Blow Off Combinations	JANUARY 2022
W-11	4" Blow off Assembly	MAY 2019
W-12	6" Fire Hydrant Assembly	APRIL 2022
W-13	1" Air & Vacuum Release Assembly	SEPTEMBER 2020
W-14	2" Air & Vacuum Release Assembly	SEPTEMBER 2020
W-15	3" or 4" Combination Air Valve or Air & Vacuum Valve Assemblies	MAY 2019
W-16	Above Ground Enclosure	MARCH 2020
W-17	Standard Pipe Zone and Trench Backfill	MAY 2019
W-18	Typical Connection Details to Steel and AC Pipe	MAY 2019
W-19	Butt Strap Closure	MAY 2019
W-20	Concrete Thrust Blocks	MAY 2019
W-21	Concrete Valve Supports for In Line Valves	MAY 2019
W-22	Not Used	
W-23	Valve Stem Extension Gate Valves 3" or Smaller	MAY 2019
W-24	Valve Stem Extension Gate Valves 4" and Larger	MAY 2019
W-25	Valve Well Cap and Can Installation	MARCH 2020

Water Standard Drawings Table of Contents APRIL 2022

W-26	Anchor Block Details for In Line Reducers (16" Pipe Max.)	. MAY 2019
W-27	Vertical Anchor Block	. MAY 2019
W-28	Slope Protection for Grades of 30% or Larger	. MAY 2019
W-29	Standard Cutoff Wall	. MAY 2019
W-30	Concrete Encasement Detail for U.G. Electrical, Telephone, and Sewer Tight Lines	. MAY 2019
W-31	Guard & Marker Post Installation	. MAY 2019
W-32	Utility Marker Post Installation	. MAY 2019
W-33	Appurtenance Retaining Wall	. MAY 2019
W-34	Adjustable Pipe Support Detail	. MAY 2019
W-35	Water Quality Sampling Station	. MAY 2019
W-36	Project Information Sign	. MAY 2019
W-37	Typical Pipe Gate	. MAY 2019
W-38	Chain Link Fence Details	. MAY 2019
W-39	2-Wire Test Station (Paved)	. MAY 2019
W-40	2-Wire Test Station (Unpaved)	. MAY 2019
W-41	2 or 4 Wire Test Station	. MAY 2019
W-42	At Grade Test Box	. MAY 2019
W-43	Buried Insulating Flange	. MAY 2019
W-44	Buried Insulating Flange At Grade Test Station	. MAY 2019
W-45	4-Wire Casing Test Station	. MAY 2019
W-46	Above Grade Insulating Flange	. MAY 2019
W-47	Mechanical Joint Bond	. MAY 2019
W-48	CML&C Steel Pipe Joint Bond (Wire Jumper)	. MAY 2019
W-49	DIP Joint Bonding and Test Lead Connections	. MAY 2019
W-50	Single Anode Installation	. MAY 2019
W-51	Single Anode Test Station Wiring	. MAY 2019
W-52	Prepackaged Magnesium Anode	. MAY 2019
W-53	Alumino-Thermic Weld	. MAY 2019

STANDARD LEGEND

RECYCLED WATER MAIN

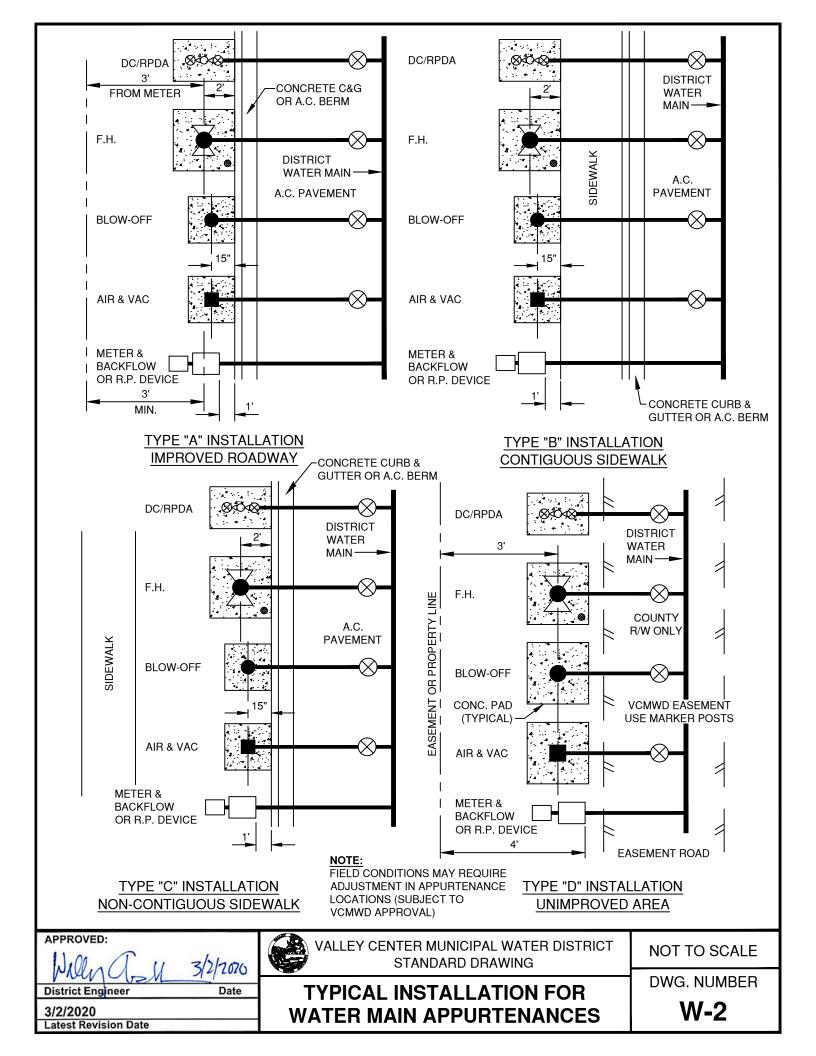
AIR & VACUUM RELEASE

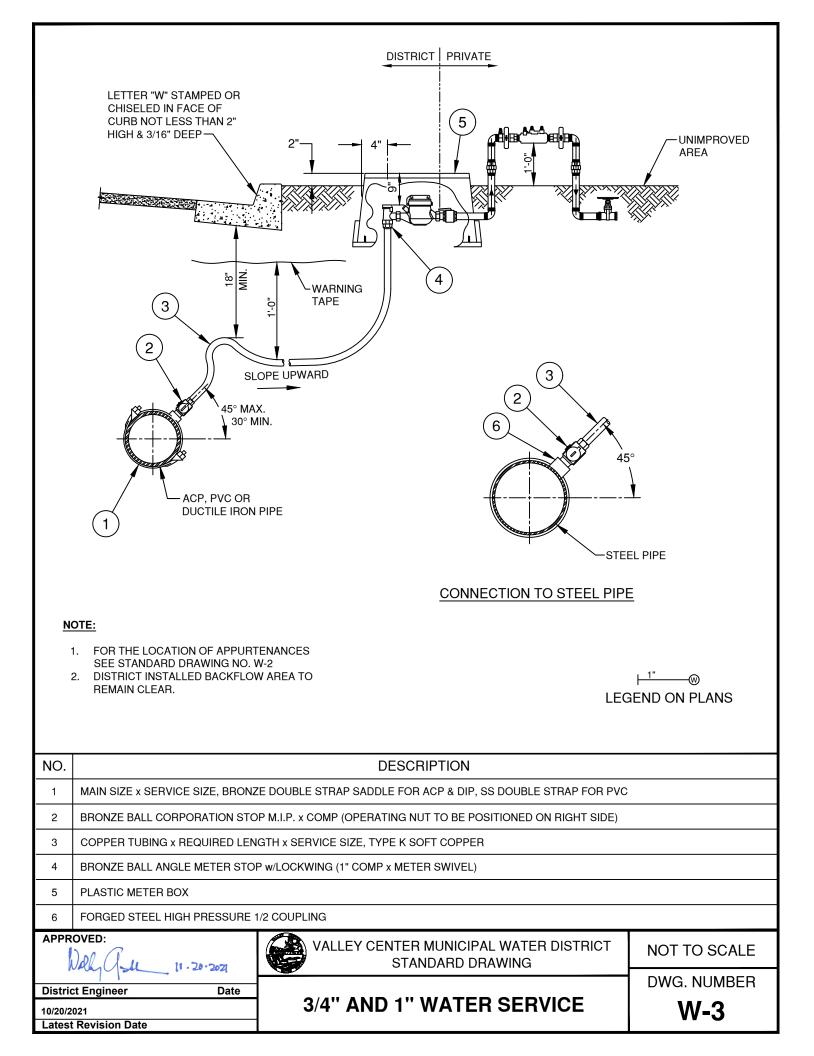
RECYCLED WATER SERVICE

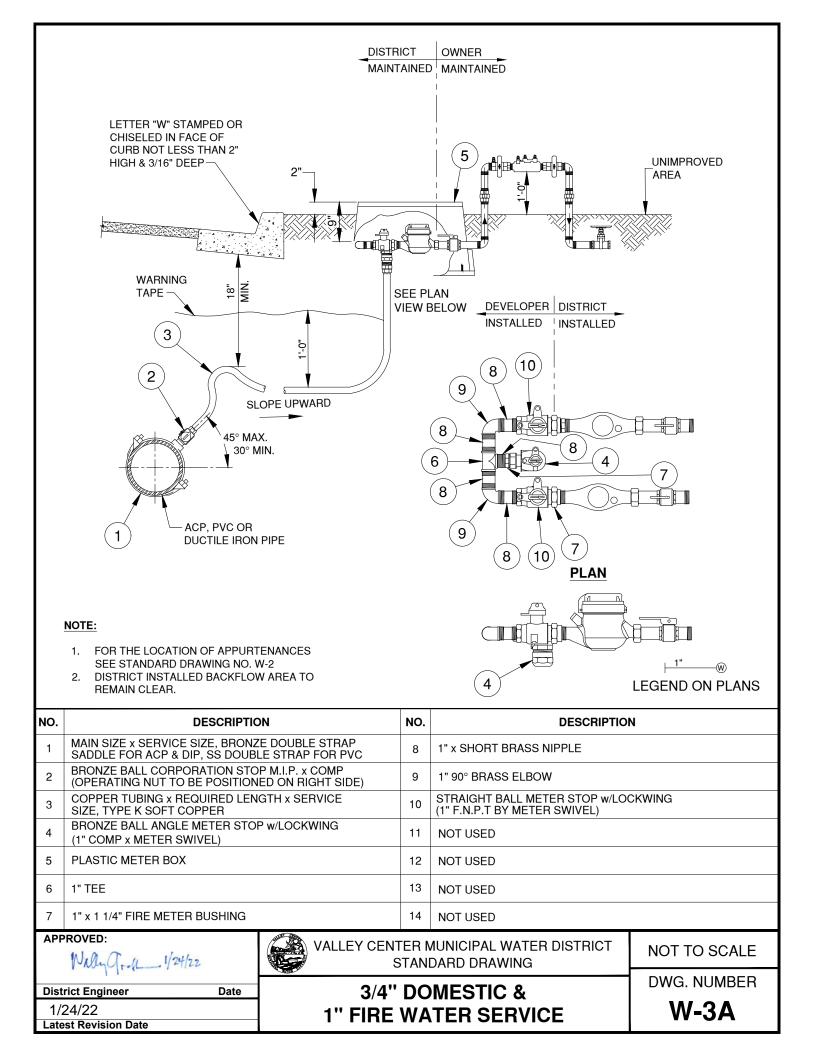
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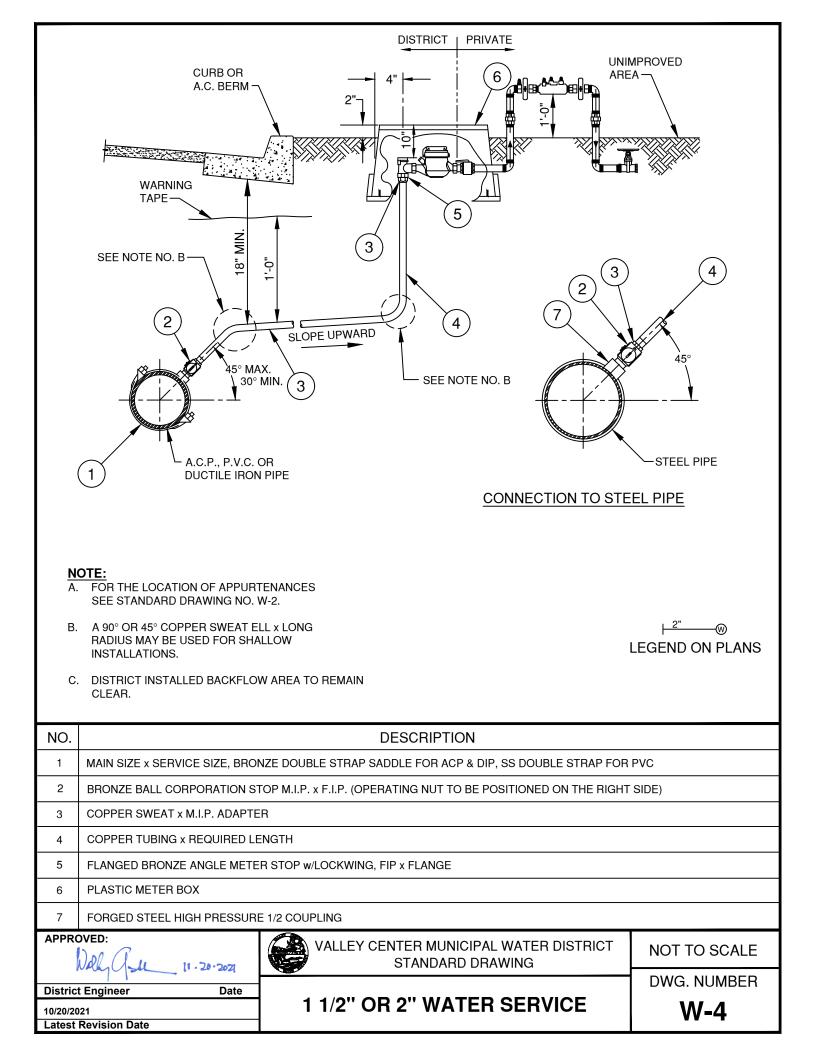
RECYCLED WATER MAIN		EXISTING RECYCLED WATER
RECYCLED WATER SERVICE		EXISTING RECYCLED WATER
WATER MAIN	W	EXISTING WATER MAIN
WATER SERVICE	W	EXISTING WATER SERVICE
BLOW OFF	•	EXISTING BLOW OFF
AIR & VACUUM RELEASE		EXISTING AIR & VACUUM REL
CHECK VALVE		EXISTING GATE VALVE
FIRE HYDRANT		EXISTING FIRE HYDRANT
GATE VALVE	======	STORM DRAIN OR CULVERT
ALL CLOSED GATES	—— G ——	GAS LINE
THRUST BLOCK	—— E ——	ELECTRICAL
COMBINATION AV/BO	OHE	ELECTRICAL OVERHEAD
WATER QUALITY SAMPLING STA	TION — T —	TELEPHONE
FIRE SERVICE	-0-	POWER POLE
WATER DISTRICT BOUNDARY	٢	WELL
EDGE OF PAVEMENT		

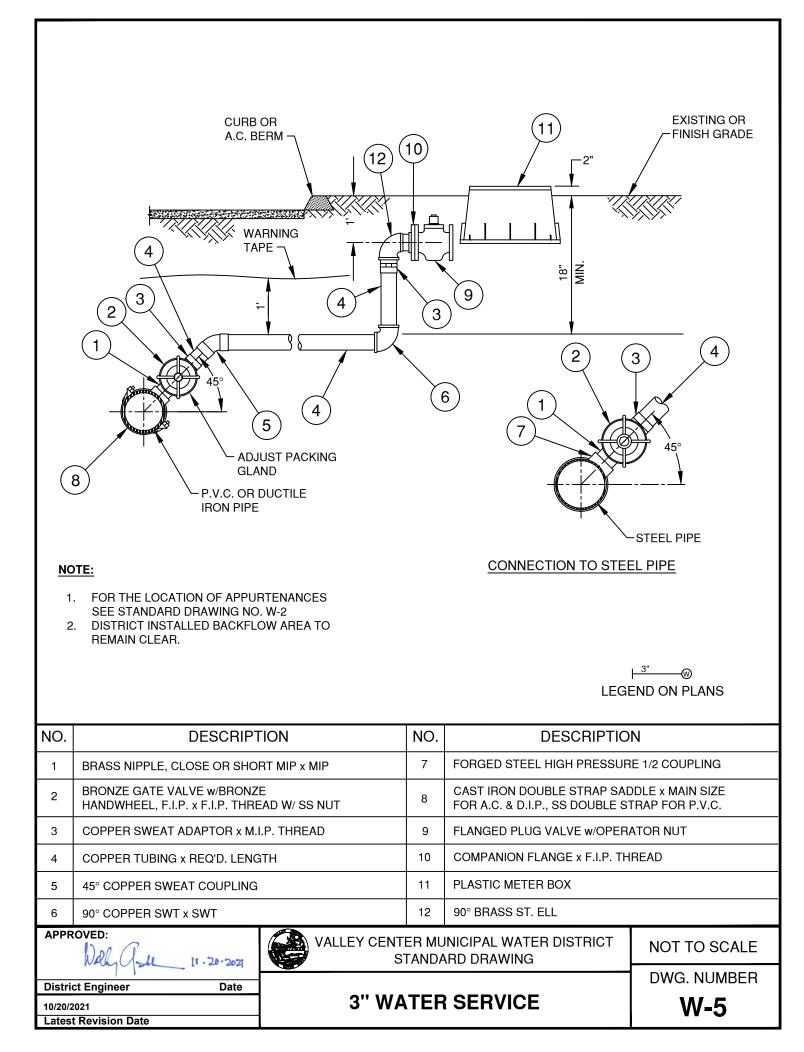
APPROVED: VALLEY CENTER MUNICIPAL WATER DISTRICT NOT TO SCALE STANDARD DRAWING 3/2/2020 DWG. NUMBER STANDARD SYMBOLS FOR Date **District Engineer W-1** WATER CONSTRUCTION DRAWINGS 3/2/2020 Latest Revision Date

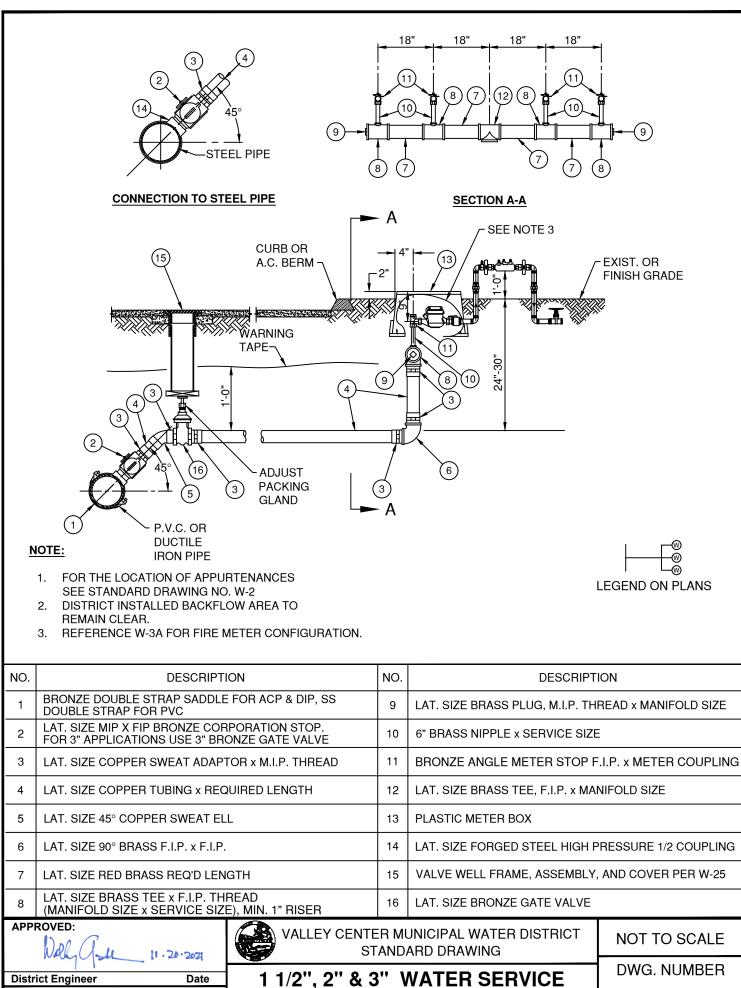








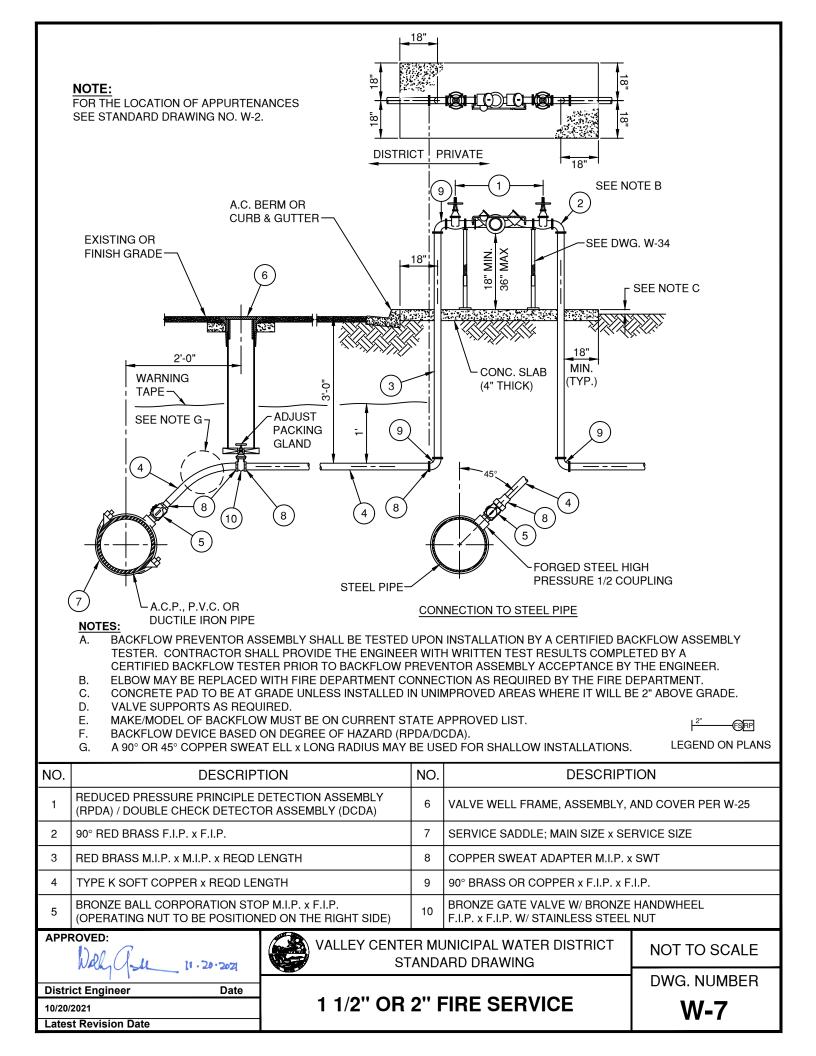


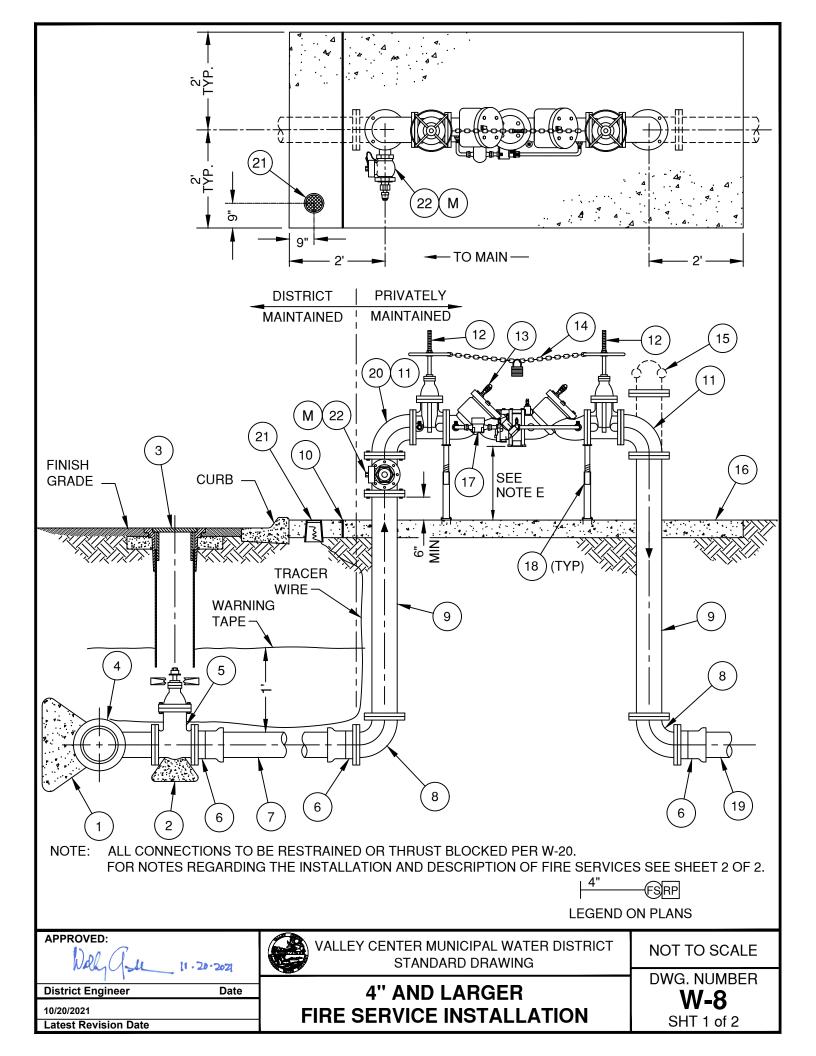


MANIFOLD ASSEMBLY

10/20/2021 Latest Revision Date

W-6





FOR DRAWING OF FIRE SERVICE INSTALLATION SEE SHEET 1 OF 2			
NOTES:			
A.	INSTALL WARNING/IDENTIFICATION TAPE.		
В.	LOCATION OF FIRE SERVICES SHALL BE AS DIRECTED BY THE FIRE DEPARTMENT OF		
	JURISDICTION. FIRE SERVICES SHOULD BE LOCATED IN SUCH A MANNER THAT WILL ALLOW THE DEVICE TO BE READILY ACCESSIBLE FOR INSPECTION, REPAIR, AND USAGE.		
C.			
0.	TAMPER SWITCH, AUTOMATIC RESET, CHAIN WITH KNOX LOCK, AND FIRE DEPARTMENT CONNECTION ("FDC") SHALL BE AS REQUIRED BY THE FIRE DEPARTMENT OF JURISDICTION.		
D.	BALL VALVE TEST COCKS SHALL BE PROVIDE		
<i>D</i> .	RECOMMENDATIONS AND THE DISTRICT.		DECOATED TERTITIE MANOTACTORIENS
E.		JCF B	ETWEEN THE BOTTOM OF THE BELIEF
	. INSTALL FIRE SERVICES SO THAT THE DISTANCE BETWEEN THE BOTTOM OF THE RELIEF DIAPHRAGM AND THE CONCRETE SLAB OR FINISH GRADE IS 18" MIN. AND 36" MAX.		
F.	INSTALL AN ANGLE PRESSURE REDUCING VA		
	SYSTEM STATIC PRESSURE EXCEEDS 175psi		
	MANUFACTURER.		
G.		PAINT	ED AND IDENTIFIED AS CALLED FOR BY
	THE FIRE DEPARTMENT OF JURISDICTION.		
Н.	ACCEPTABLE TESTING BY A DISTRICT APPRO	VED E	BACKFLOW TESTER TURNED INTO THE
	DISTRICT PRIOR TO FINAL ACCEPTANCE.		
Ι.	MATERIALS SHALL BE SELECTED FROM THE	APPRO	OVED MATERIALS LIST AND MUST BE
	APPROVED BY THE FIRE DEPARTMENT OF JU	RISDI	CTION.
J.	DISTRICT EASEMENT WILL BE REQUIRED FOR	ACCI	ESSIBILITY OF THE TATTLETALE METER.
Κ.	WHEN TAPPING EXISTING MAIN, POTHOLE TO	VERI	FY AT MINIMUM NO JOINTS EXIST WITHIN
	36" OF CONNECTION POINT.		
L.	SEE PREVIOUS SHEET FOR RESTRAINED CO		
М.	4" WHARF HEAD TO BE INSTALLED UPON FIRE	E DEP	ARTMENT REQUEST.
NO.	DESCRIPTION	NO.	DESCRIPTION
			FLANGED OS&Y RESILIENT WEDGE GATE VALVE
NO. 1	DESCRIPTION CONCRETE THRUST BLOCK, PER W-20	NO. 12	
			FLANGED OS&Y RESILIENT WEDGE GATE VALVE
1	CONCRETE THRUST BLOCK, PER W-20 VALVE SUPPORT, PER W-21	12	FLANGED OS&Y RESILIENT WEDGE GATE VALVE W/ HAND WHEEL AND RISING STEM
1	CONCRETE THRUST BLOCK, PER W-20 VALVE SUPPORT, PER W-21 VALVE WELL FRAME, ASSEMBLY,	12	FLANGED OS&Y RESILIENT WEDGE GATE VALVE W/ HAND WHEEL AND RISING STEM
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1 2 3	CONCRETE THRUST BLOCK, PER W-20 VALVE SUPPORT, PER W-21 VALVE WELL FRAME, ASSEMBLY, AND COVER, PER W-25	12 13 14	FLANGED OS&Y RESILIENT WEDGE GATE VALVE W/ HAND WHEEL AND RISING STEM RPDA, SEE NOTE D ABOVE CHAIN WITH LOCK, SEE NOTE C ABOVE
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1 2 3 4	CONCRETE THRUST BLOCK, PER W-20 VALVE SUPPORT, PER W-21 VALVE WELL FRAME, ASSEMBLY, AND COVER, PER W-25 SIZE x SIZE TEE (FLG OUTLET)	12 13 14 15	FLANGED OS&Y RESILIENT WEDGE GATE VALVE W/ HAND WHEEL AND RISING STEM RPDA, SEE NOTE D ABOVE CHAIN WITH LOCK, SEE NOTE C ABOVE FLANGED TEE WITH "FDC", SEE NOTE C ABOVE CONCRETE SLAB, 4" THICK x 48" WIDE, 520-C-2500
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1 2 3 4 5 6	CONCRETE THRUST BLOCK, PER W-20 VALVE SUPPORT, PER W-21 VALVE WELL FRAME, ASSEMBLY, AND COVER, PER W-25 SIZE x SIZE TEE (FLG OUTLET) FLG x FLG RESILIENT WEDGE GATE VALVE FLG x MJ/PO ADAPTER (IF REQUIRED)	12 13 14 15 16 17	FLANGED OS&Y RESILIENT WEDGE GATE VALVE W/ HAND WHEEL AND RISING STEMRPDA, SEE NOTE D ABOVECHAIN WITH LOCK, SEE NOTE C ABOVEFLANGED TEE WITH "FDC", SEE NOTE C ABOVECONCRETE SLAB, 4" THICK x 48" WIDE, 520-C-2500 LENGTH DETERMINED BY LENGTH OF DEVICE3/4" BYPASS, DISTRICT OWNED TATTLETALE METER IN CUBIC FEET
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APPROVED:

10/20/2021

Well a

District Engineer

Latest Revision Date

[1 · 20 · 202] Date VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING

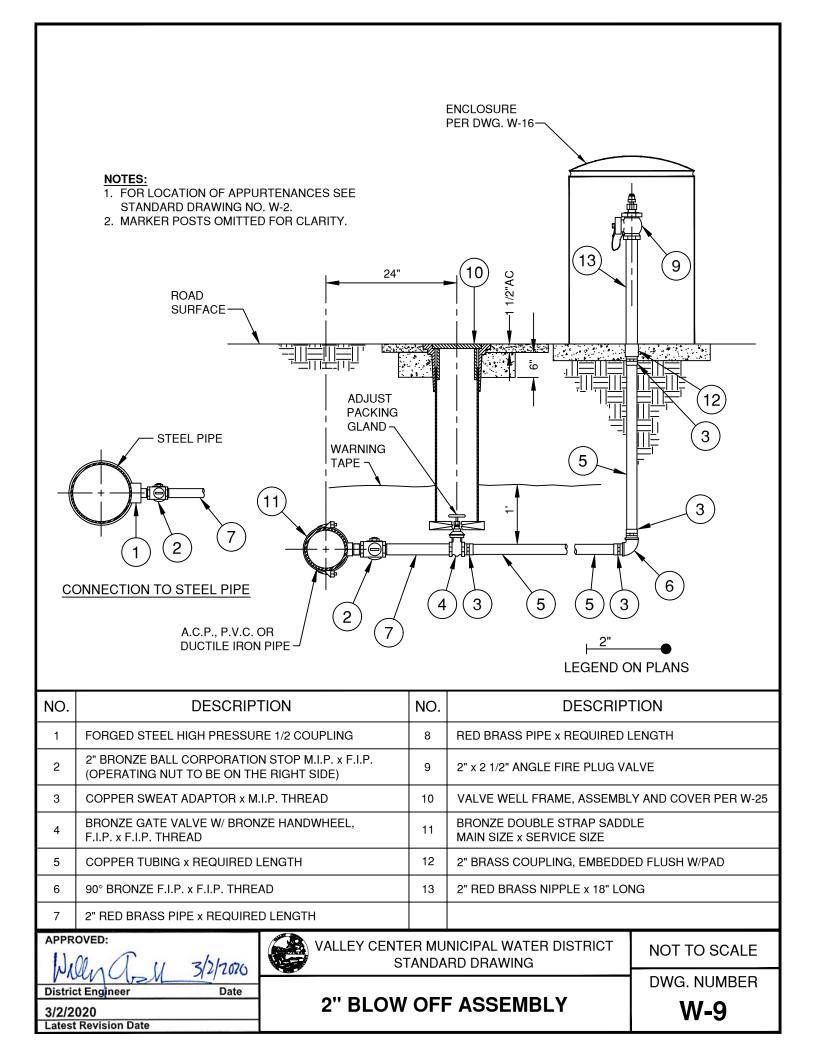
4" AND LARGER

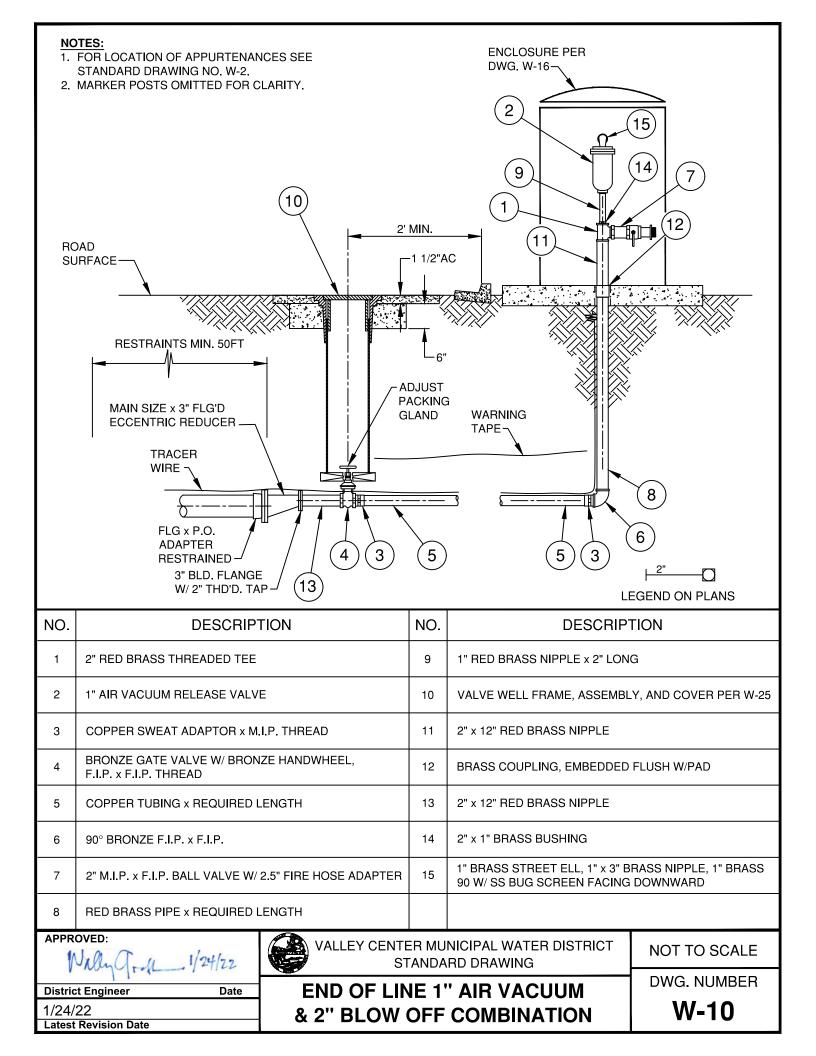
FIRE SERVICE INSTALLATION

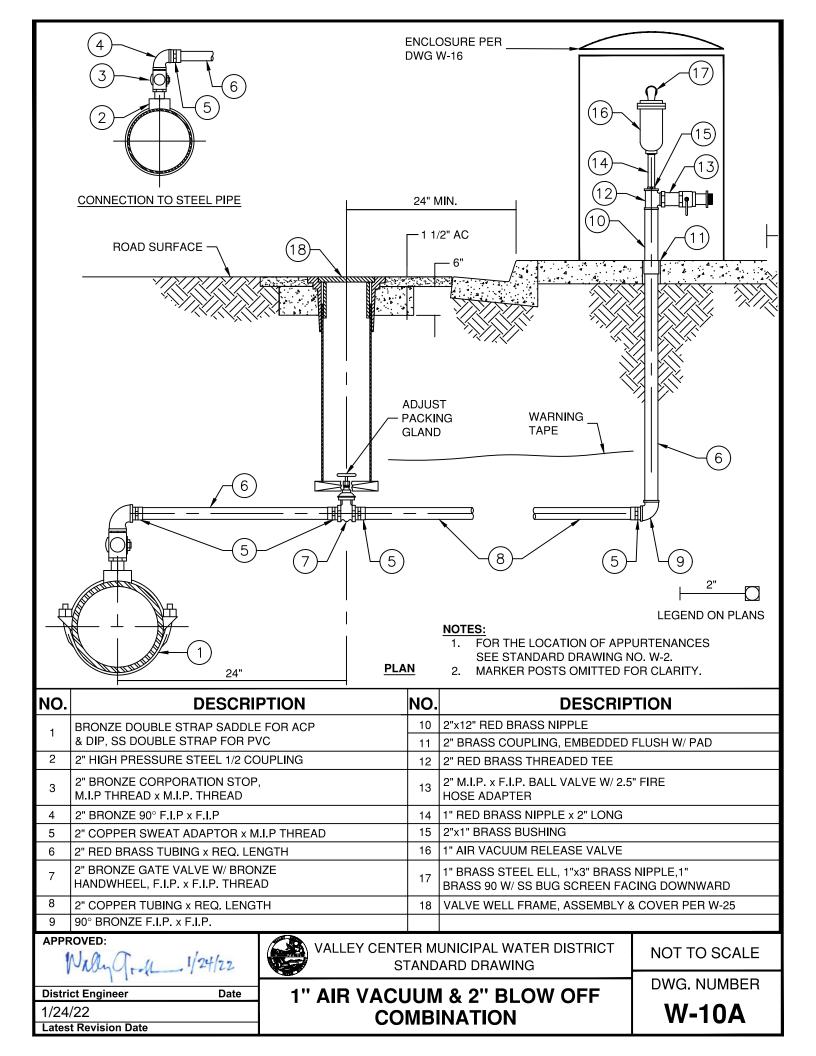
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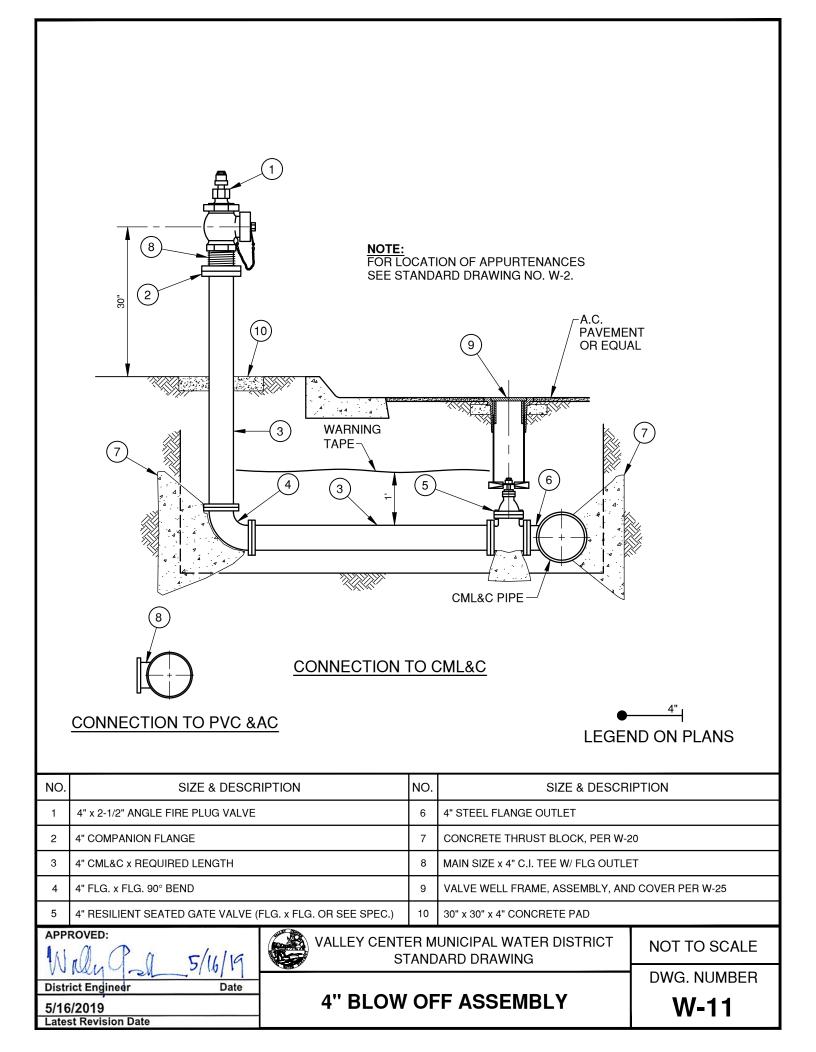
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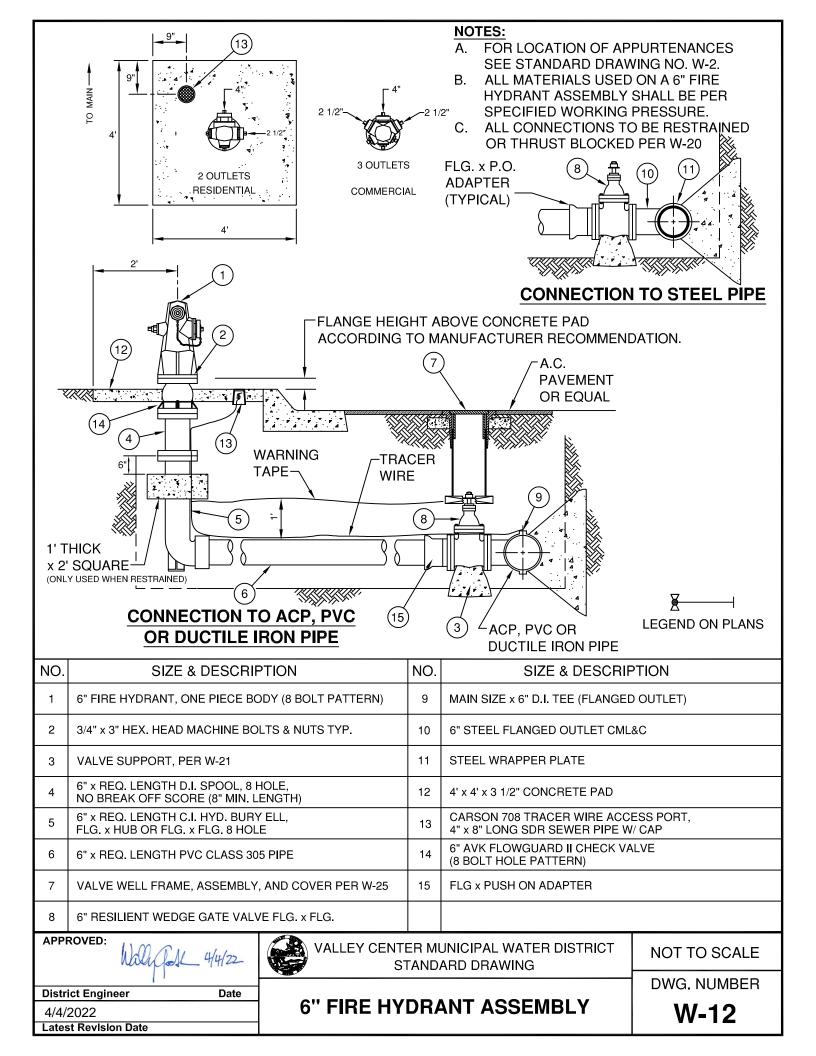
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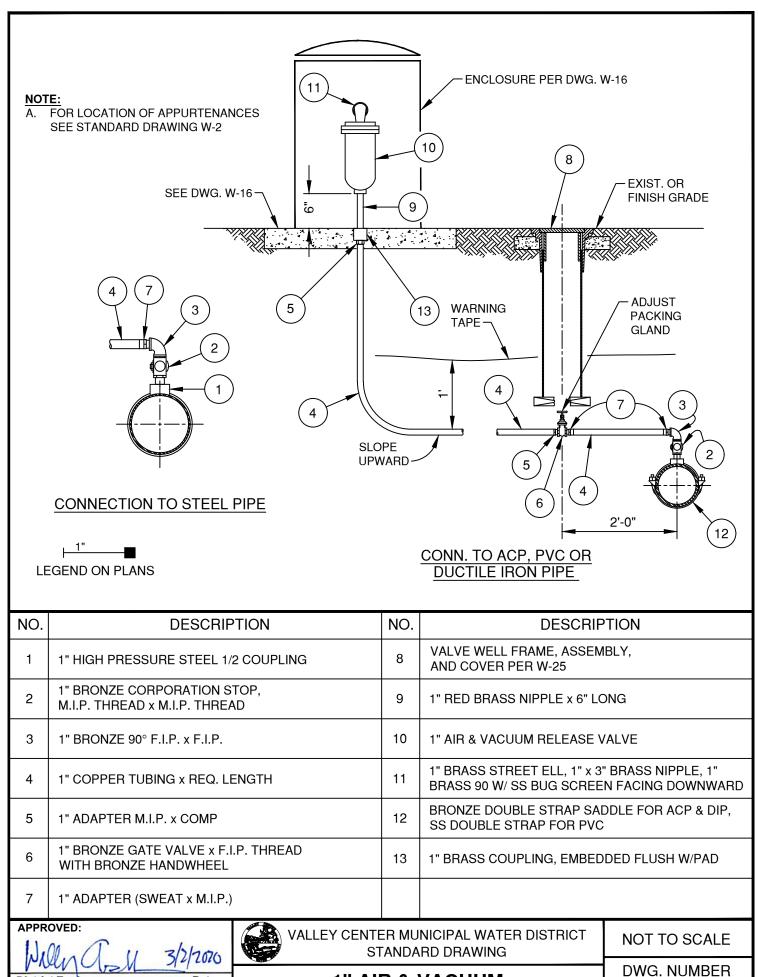












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Date

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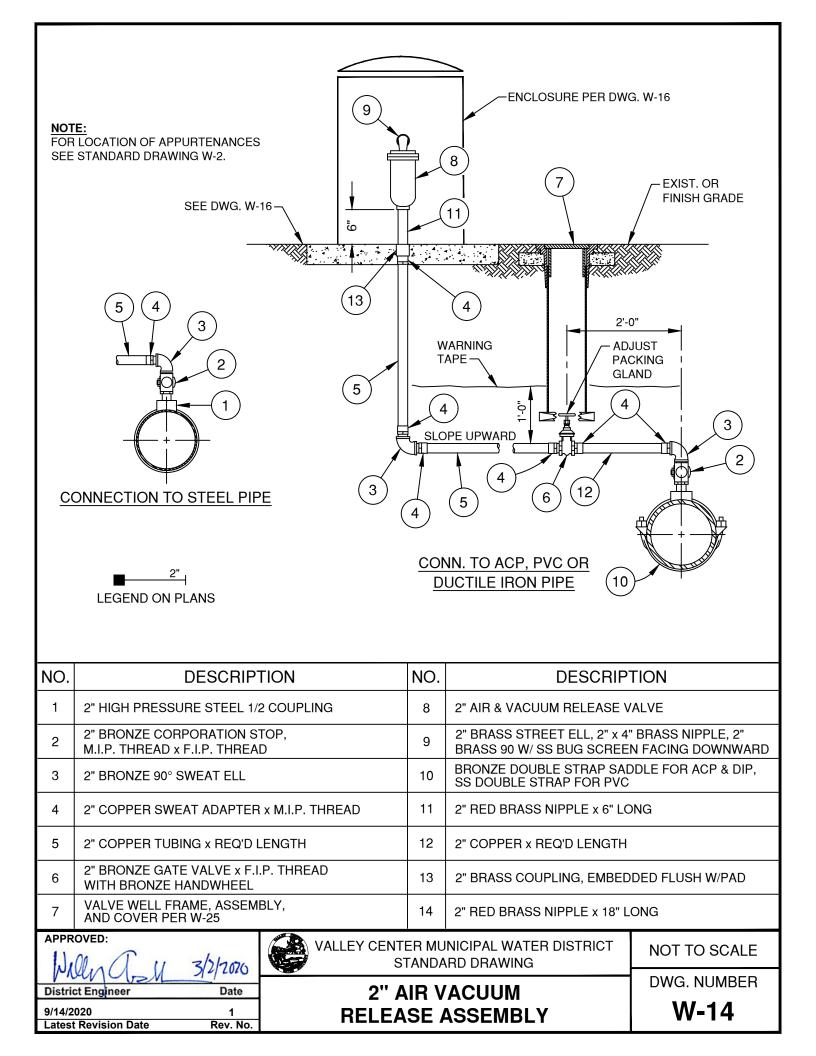
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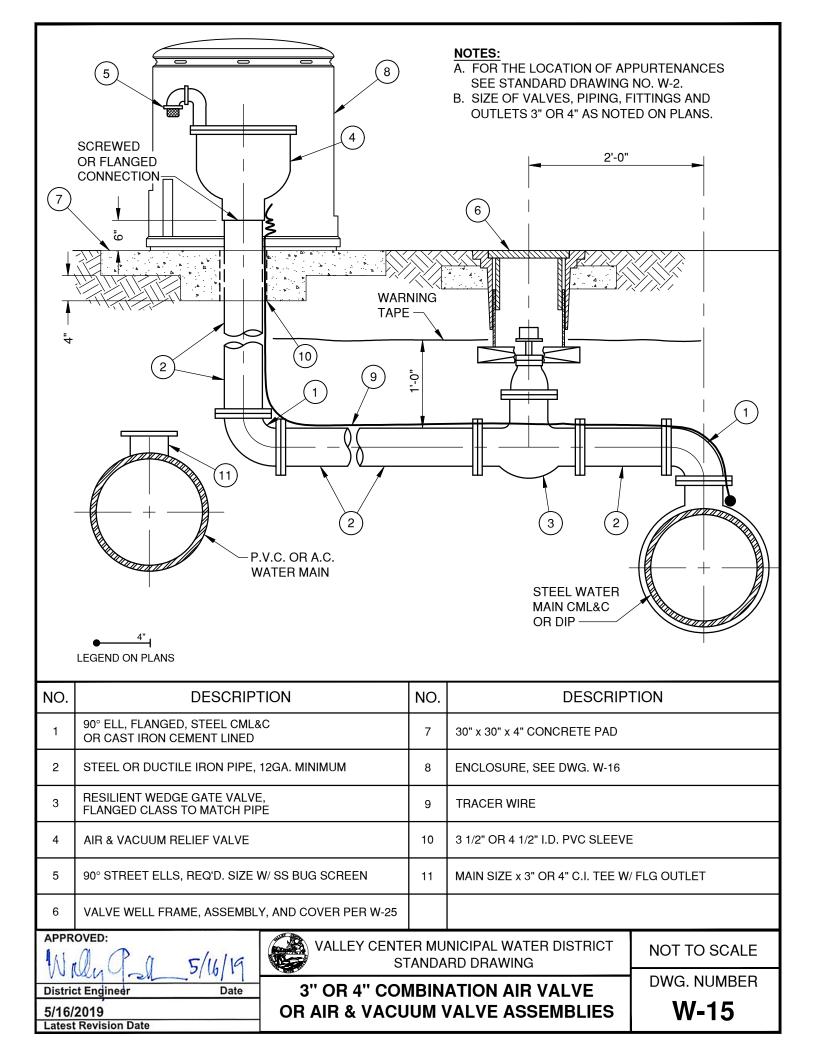
District Engineer

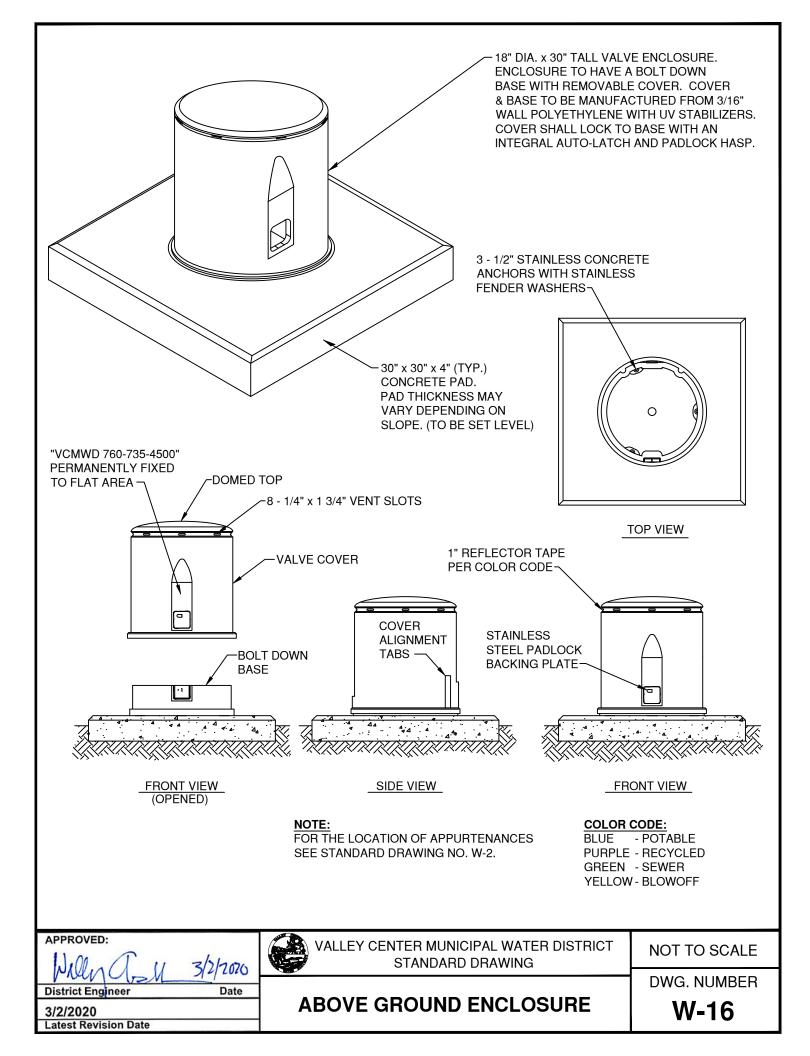
Latest Revision Date

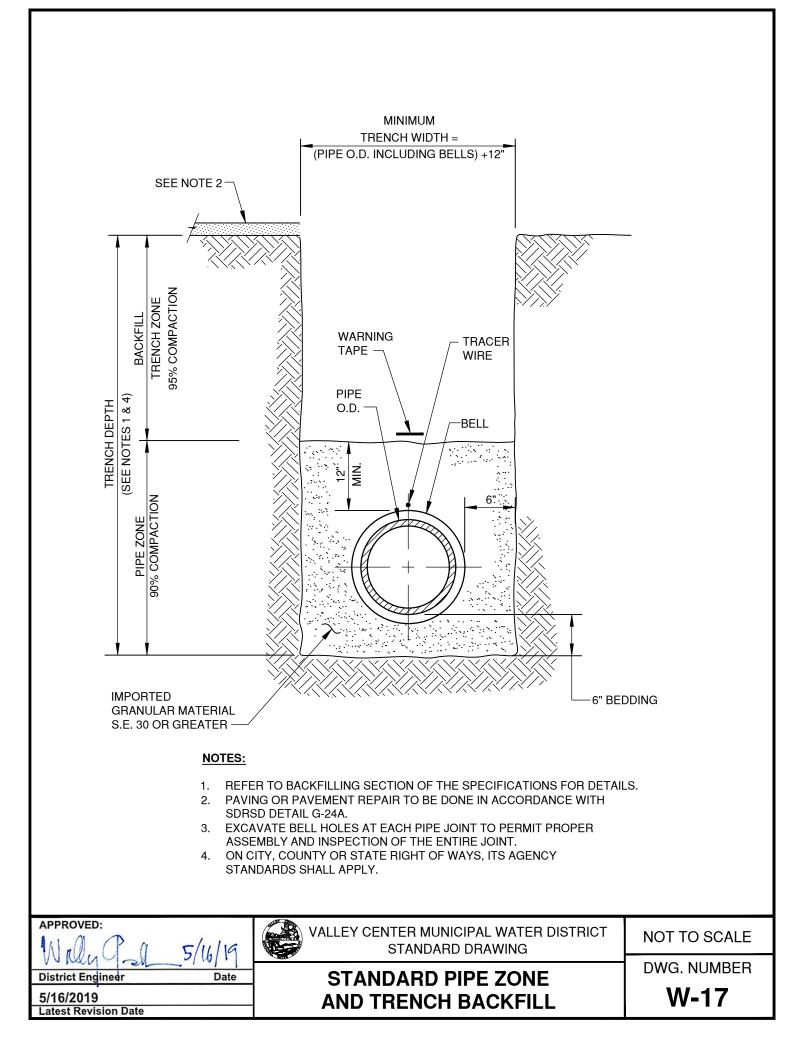
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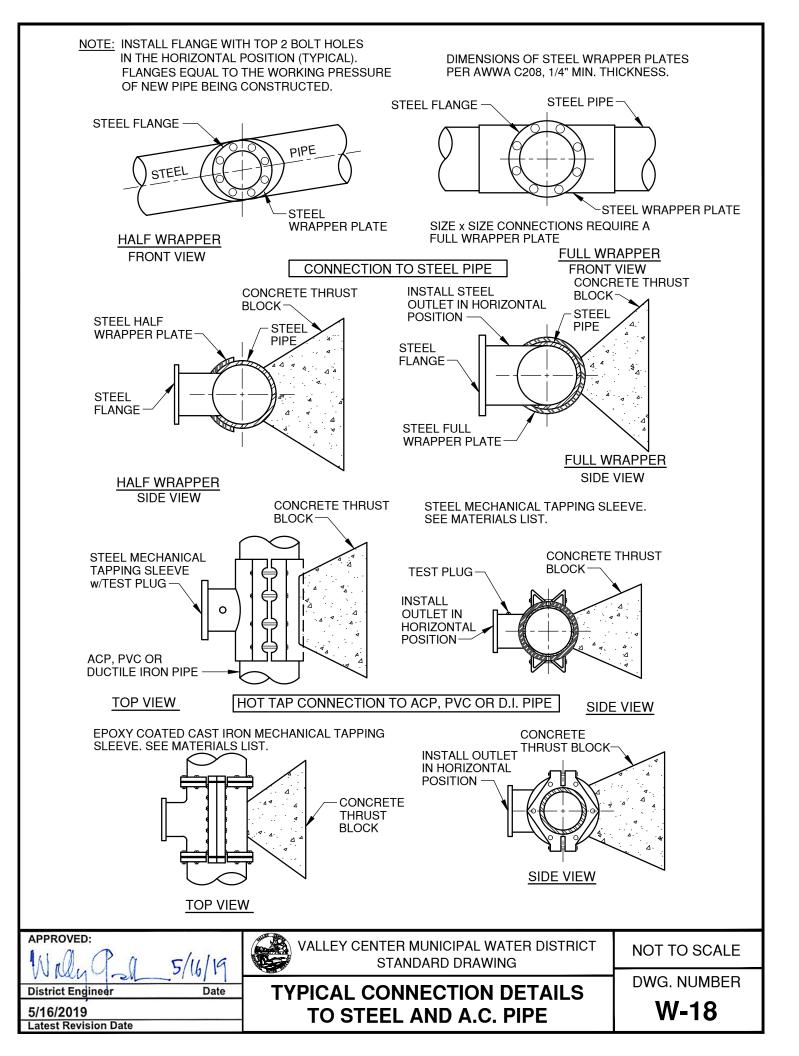
W-13

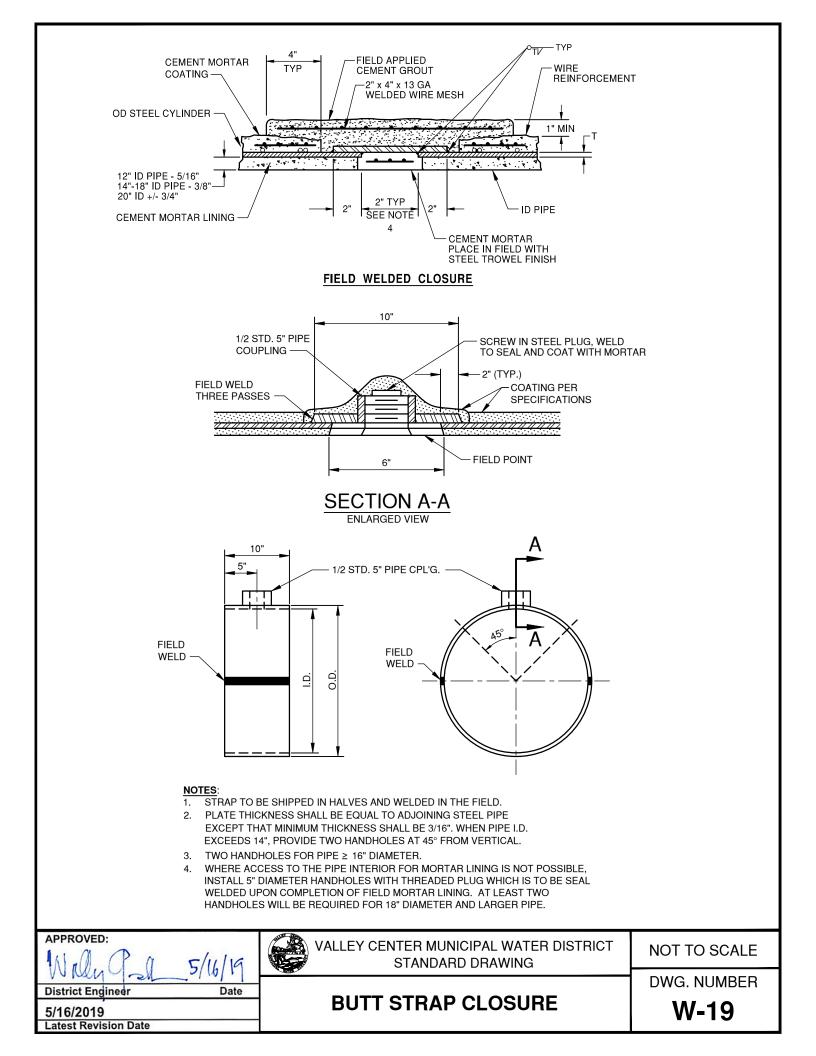


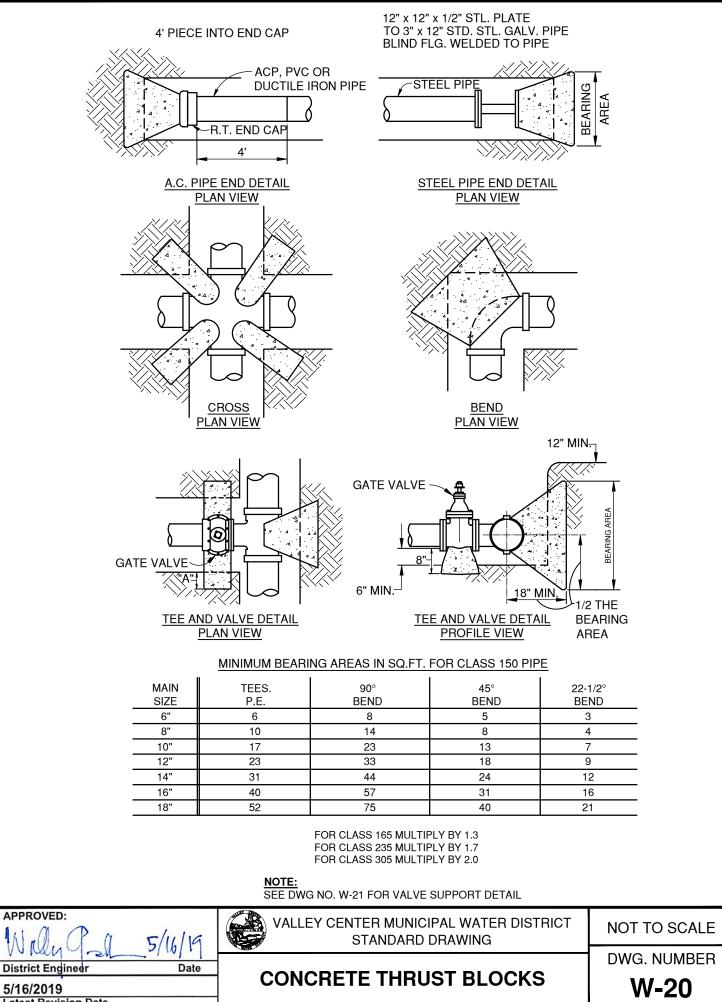




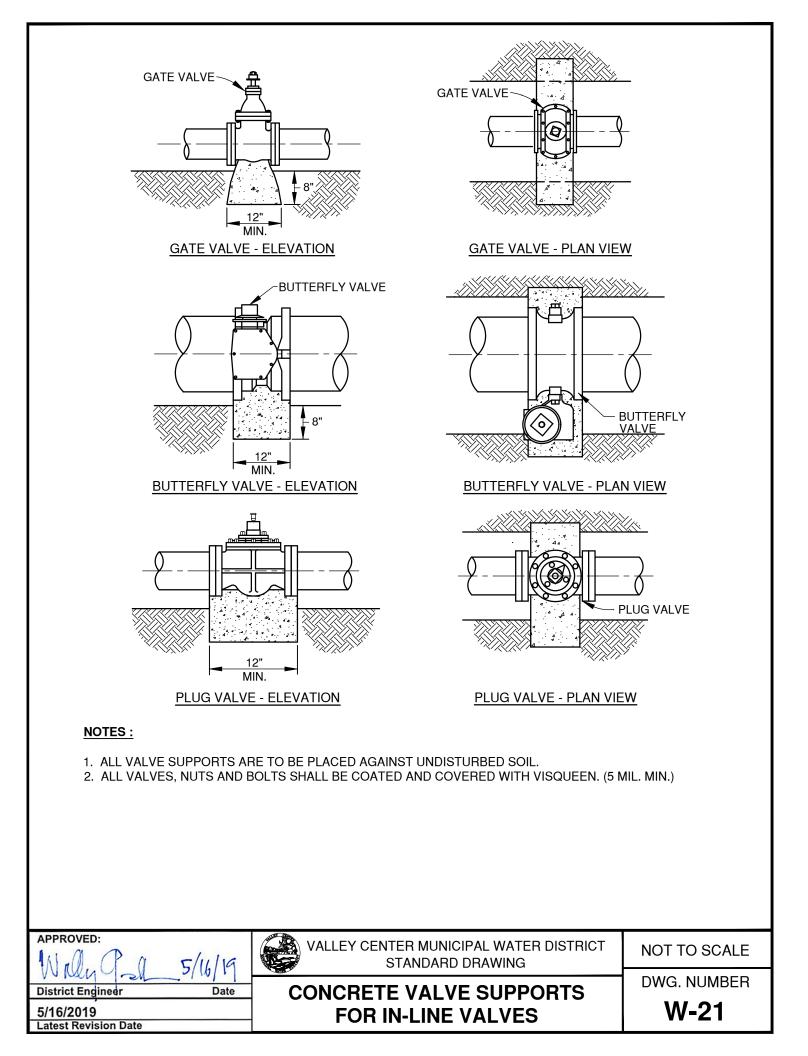


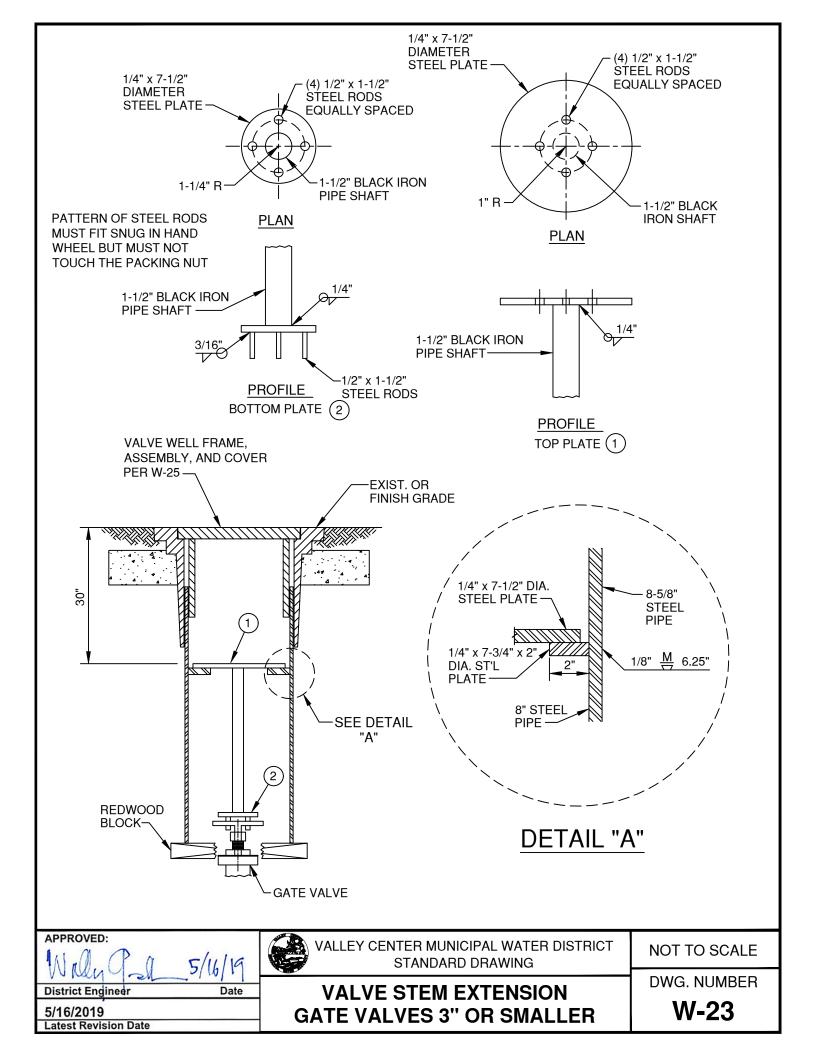


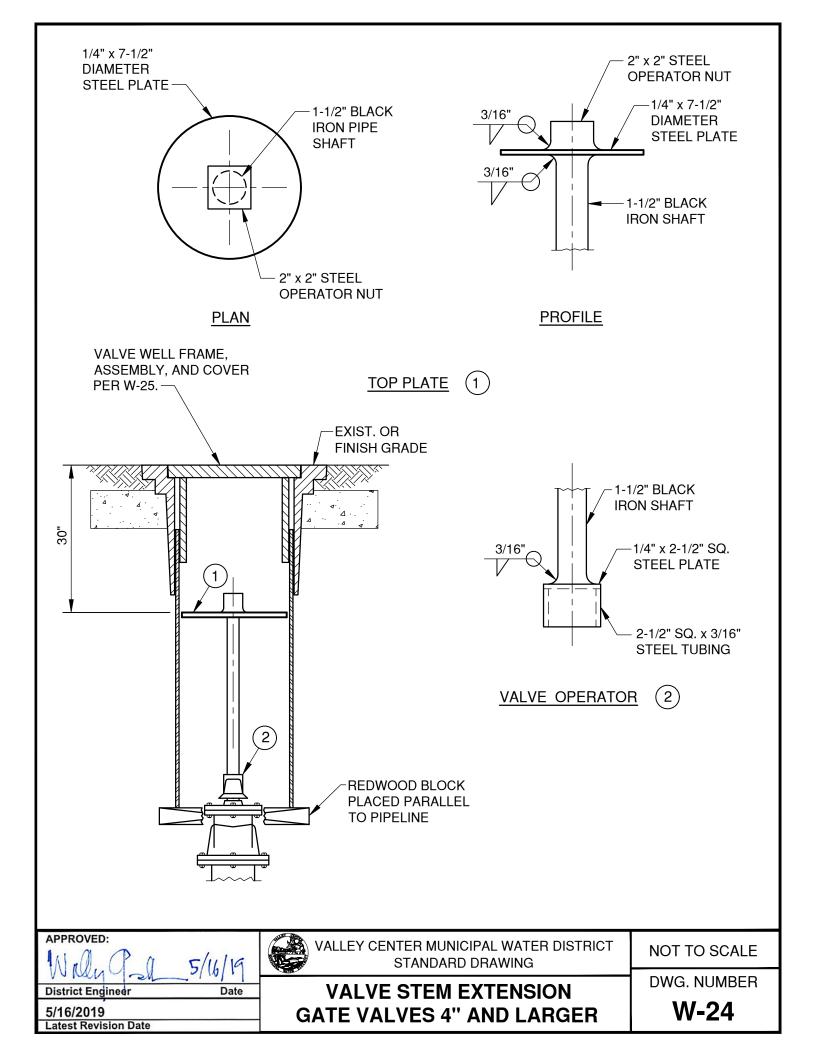


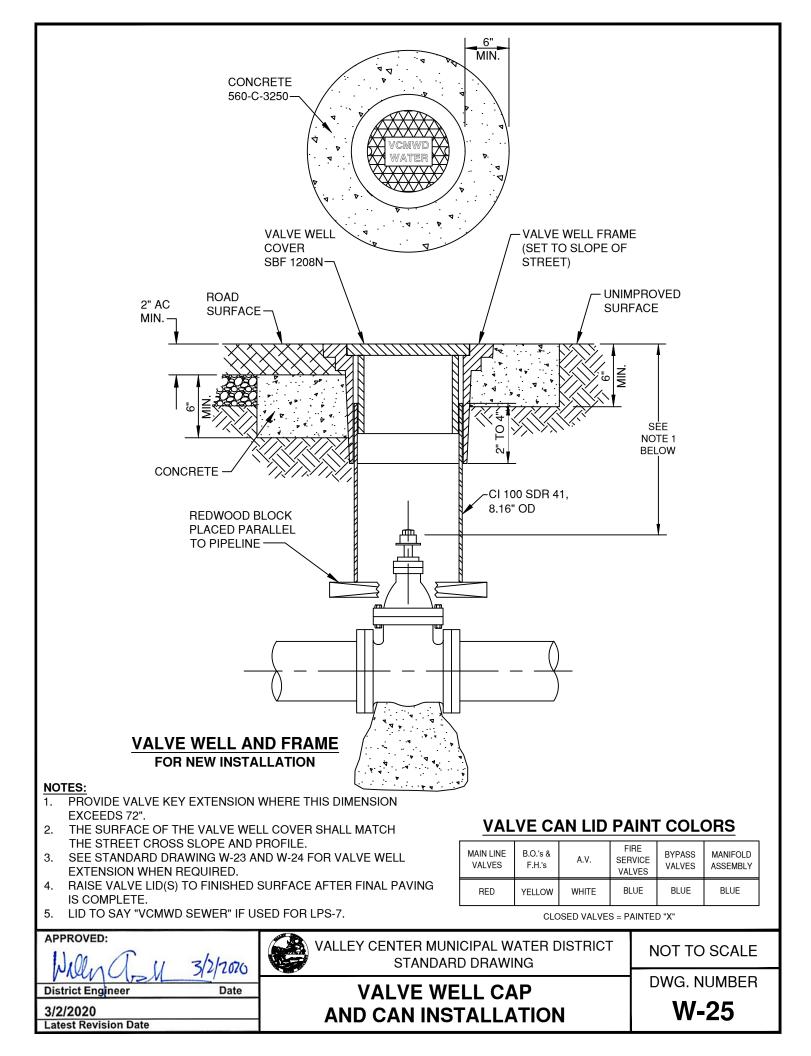


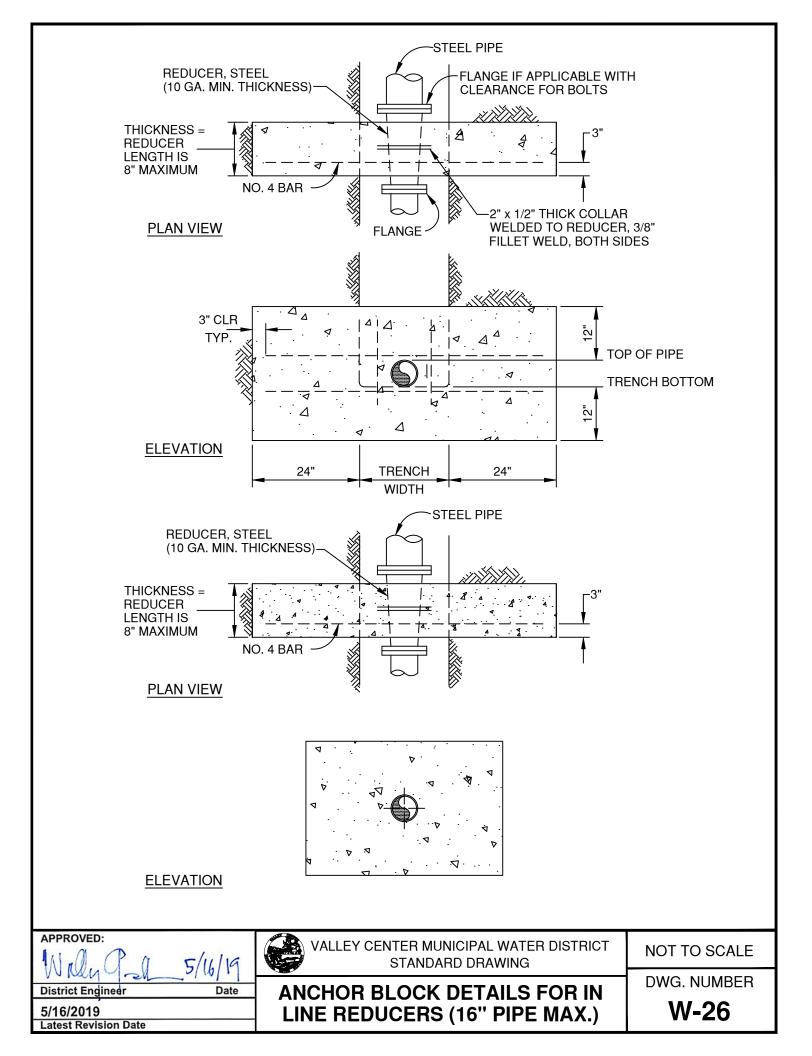
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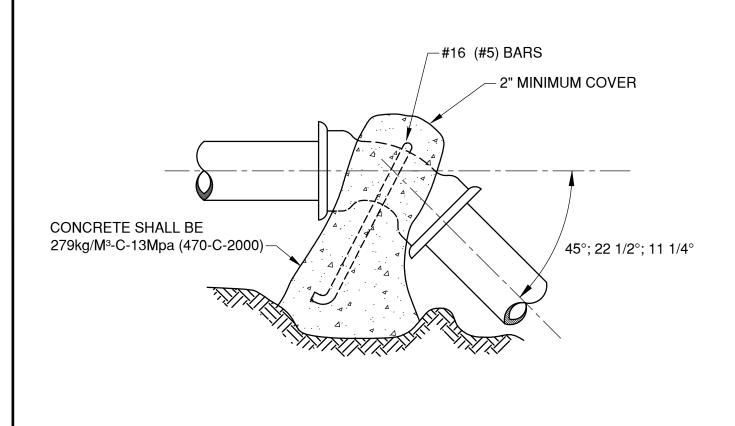












PIPE NOMINAL DIA.	CUBIC FT. OF CONCRETE REQUIRED PER 100 P.S.I. PRESSURE *			
<i>DWN</i> .	45°	22 1/2°	11 1/4°	
4	7	4	2	
6	15	8	4	
8	27	14	7	
10	* *	21	11	
12	* *	* *	16	

* INCREASE VOLUMES SHOWN IN PROPORTION TO PRESSURES EXISTING WHEN PRESSURE TESTING PIPELINE.

* SPECIAL DESIGN REQUIRED.

APPROVED: Willy P-SL	5/16/19
District Engineer	Date
5/16/2019	

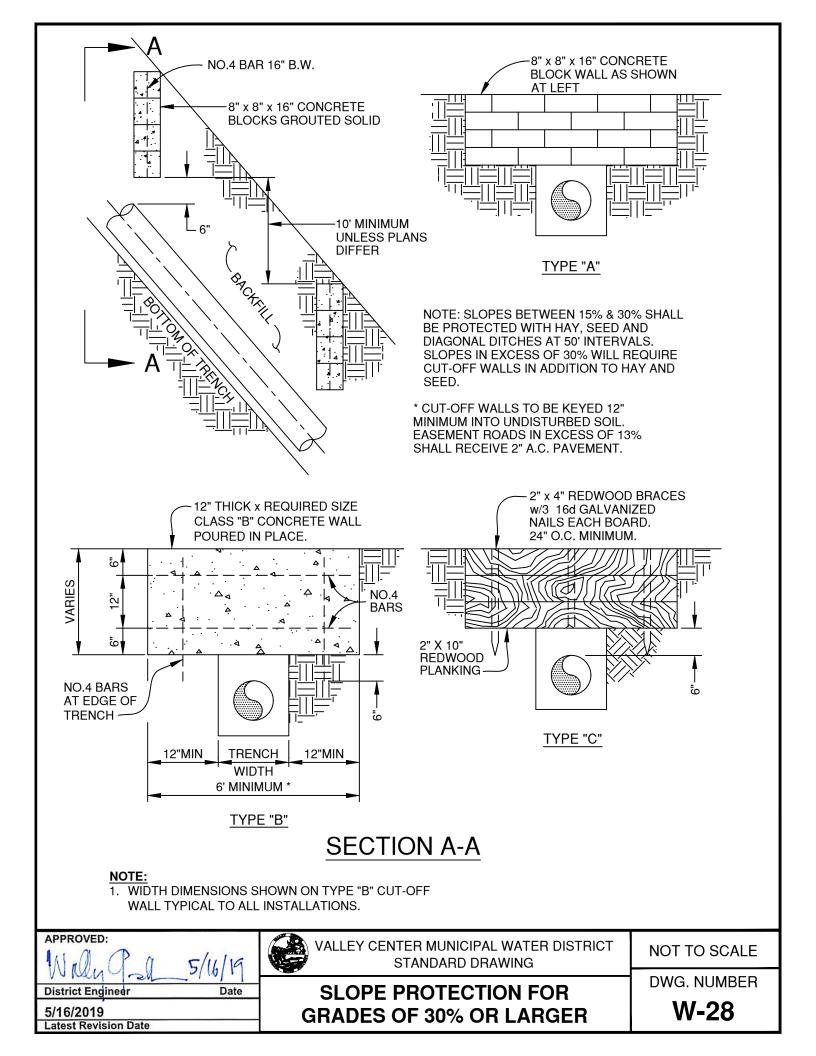
VALLEY CENTER MUNICIPAL WATER DISTRICT
VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING

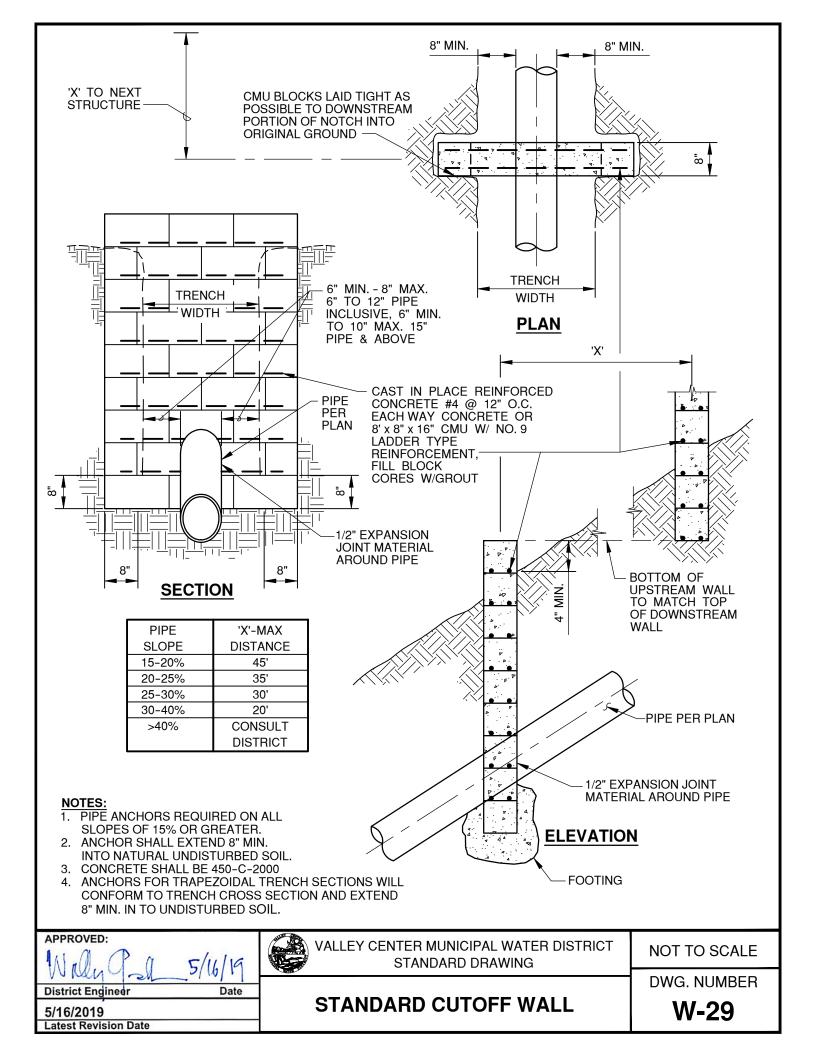
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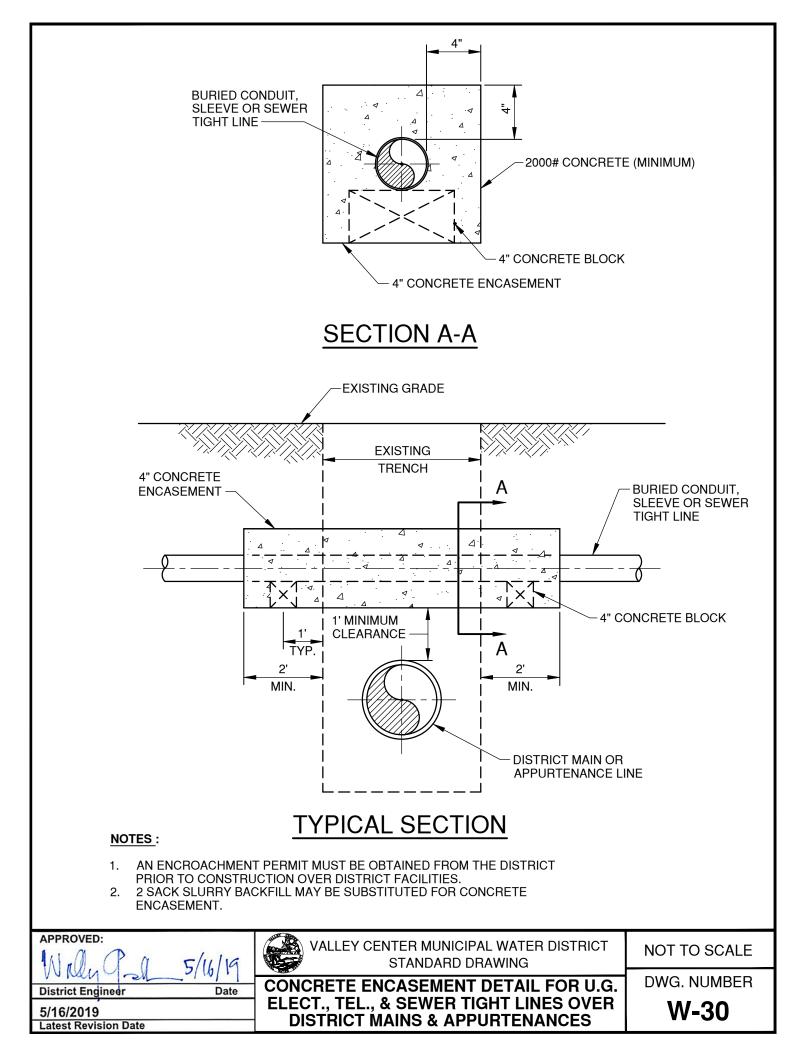
DWG. NUMBER

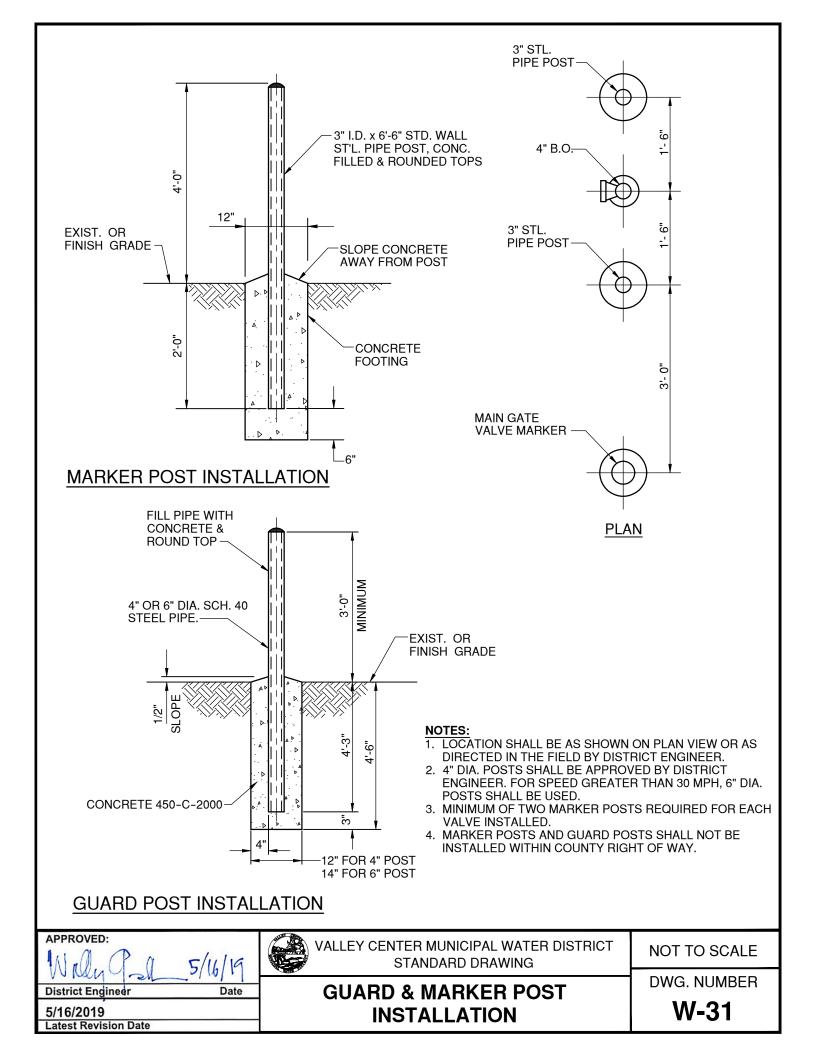
VERTICAL ANCHOR BLOCK

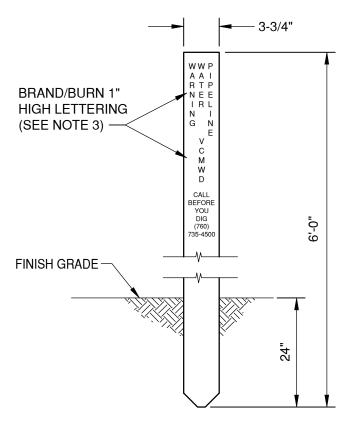
W-27











MARKER POSTS

POST SHALL BE INSTALLED A MAXIMUM OF 200' APART OR IN LINE OF SITE

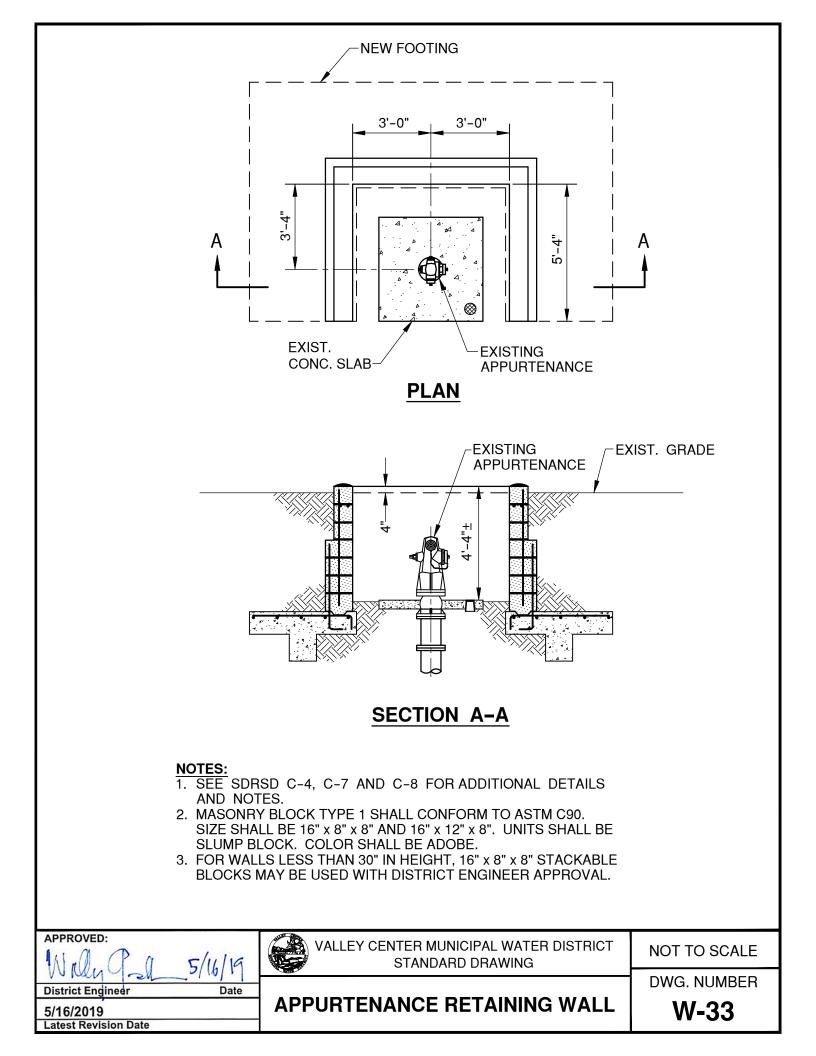
COLOR	MARKER POSTS USED FOR:
BLUE	POTABLE WATER MAINS
GREEN	SEWER MAINS
PURPLE	RECYCLED WATER MAINS
WHITE	GENERAL USE
YELLOW	ELECTRICAL UTILITIES

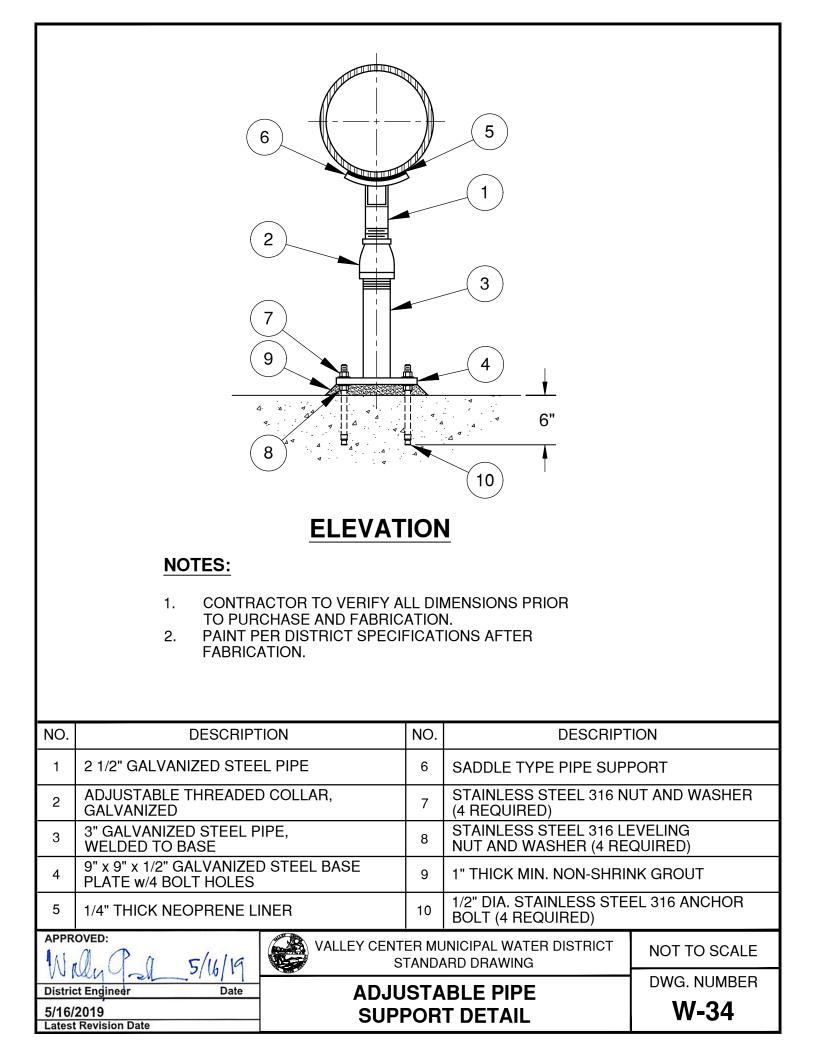
UTILITY MARKER COLORS

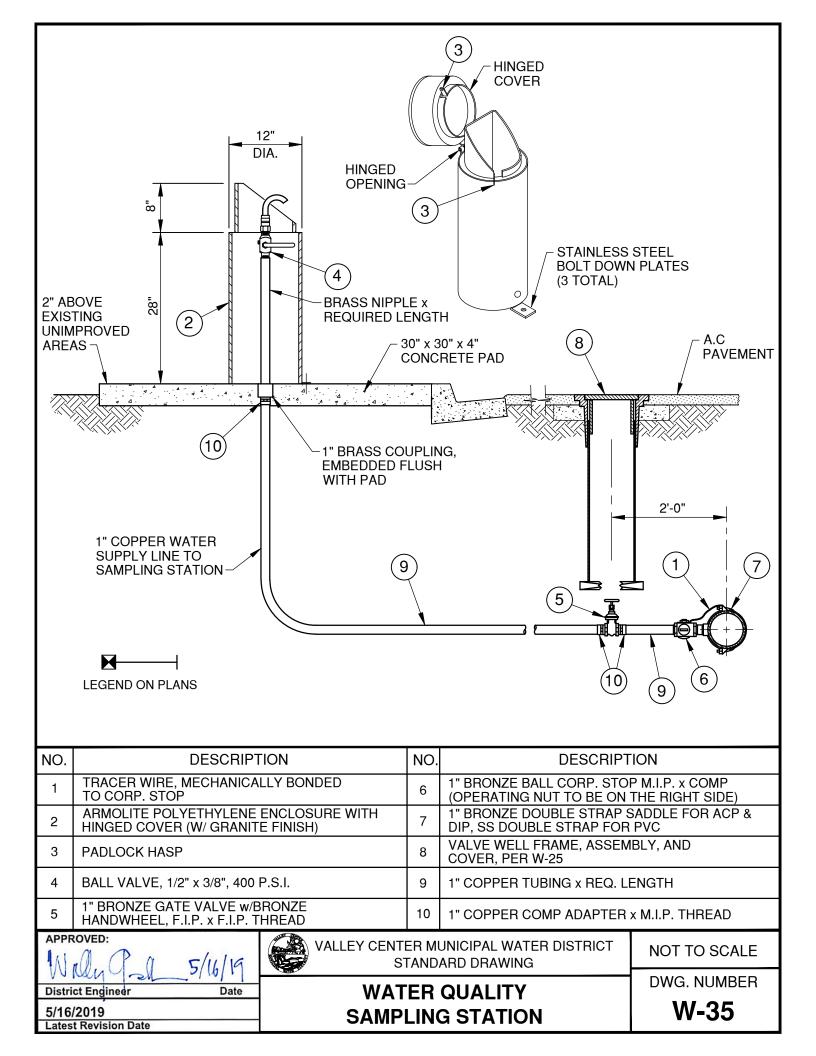
NOTES:

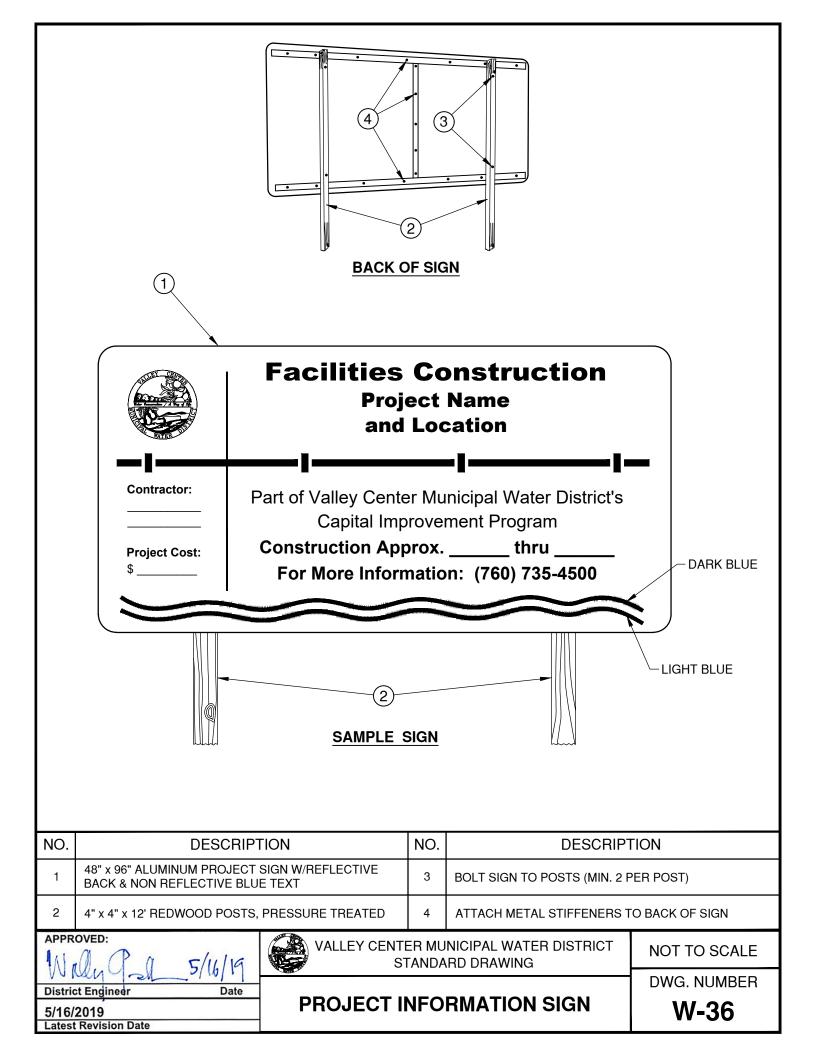
- 1. EASEMENT/UTILITY MARKER POST SHALL BE INSTALLED WHERE CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 2. EASEMENT/UTILITY MARKER POST SHALL BE INSTALLED ALONG THE CENTERLINE OF THE PIPELINE.
- 3. MARKER SHALL INCORPORATE 1" HIGH LETTERING BRANDED/BURNED INTO PADDLE. LETTERING SHALL INCLUDE THE AGENCY OF JURISDICTION ALONG WITH THE UTILITY IDENTIFIED. THE COLOR OF THE PADDLE SHALL BE AS SHOWN ABOVE.

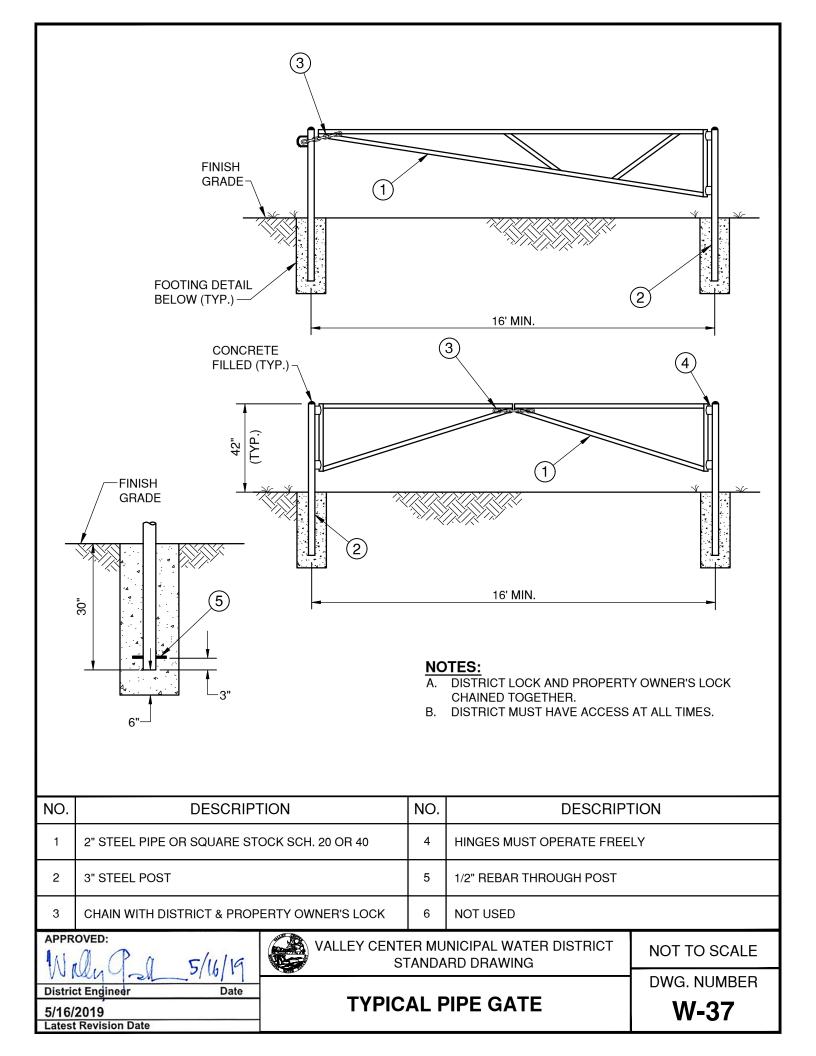
APPROVED:	VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING	NOT TO SCALE
District Engineer Date		DWG. NUMBER
5/16/2019 Latest Revision Date	POST INSTALLATION	W-32

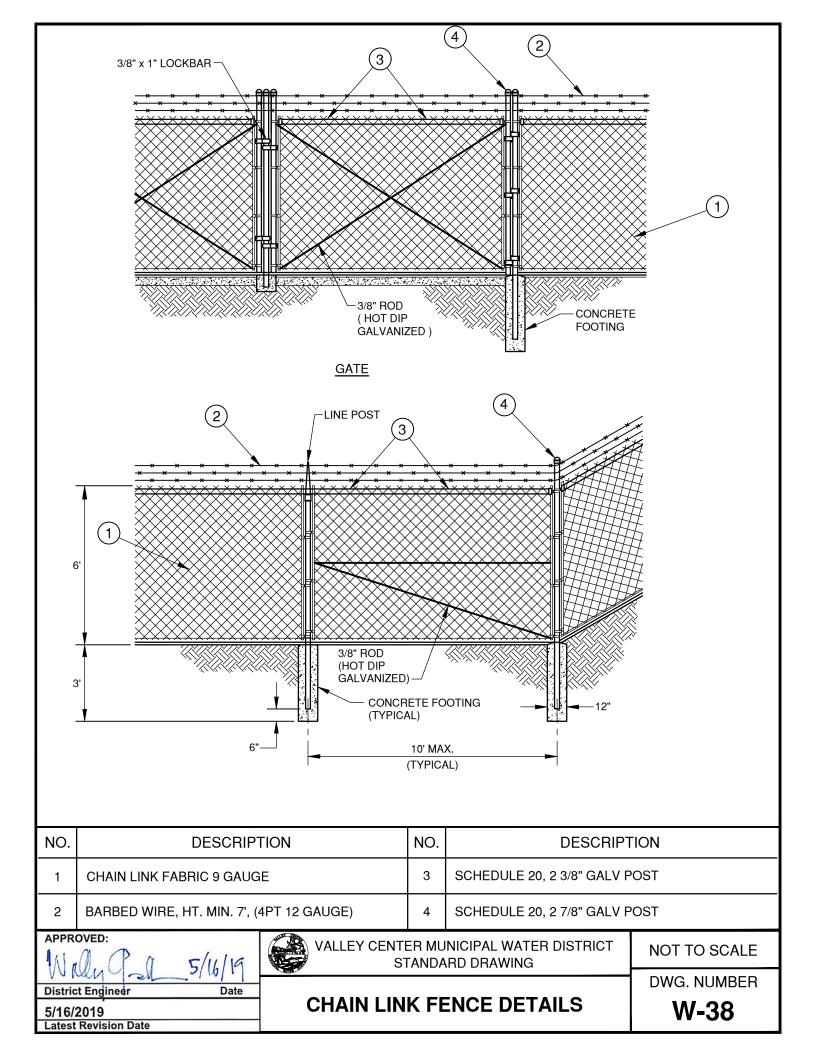


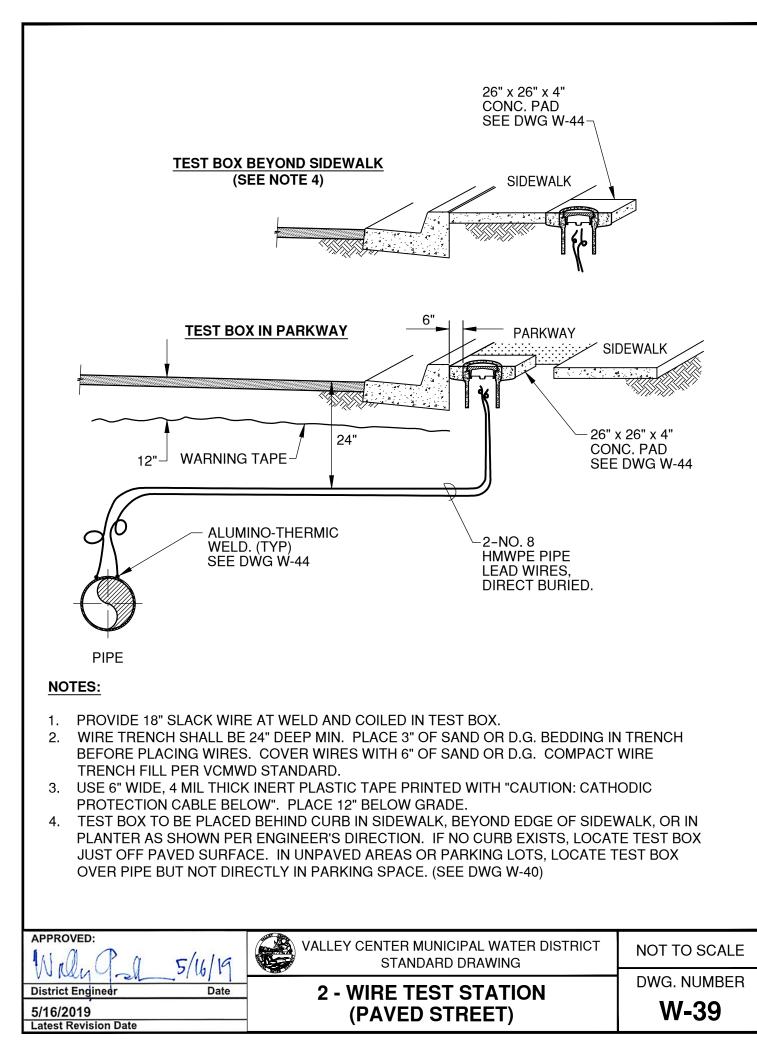


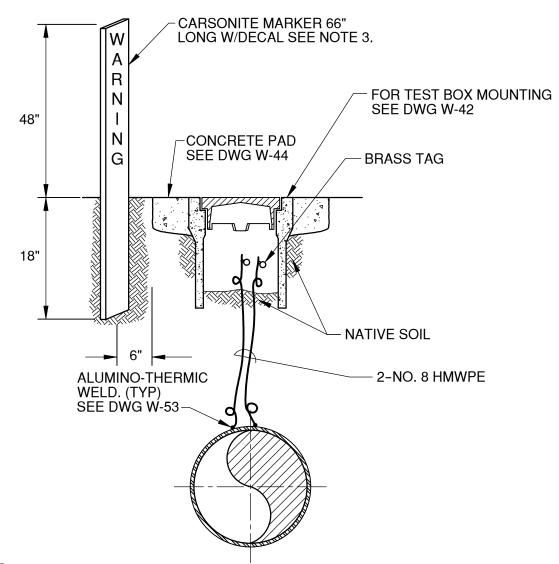








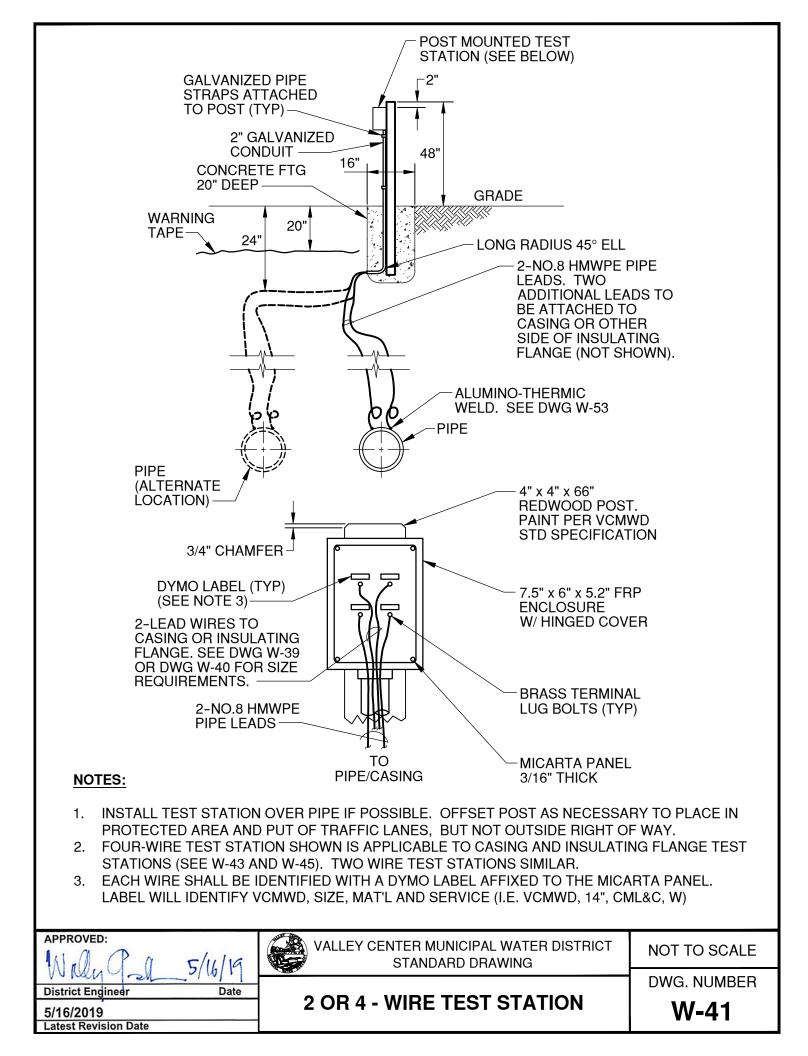


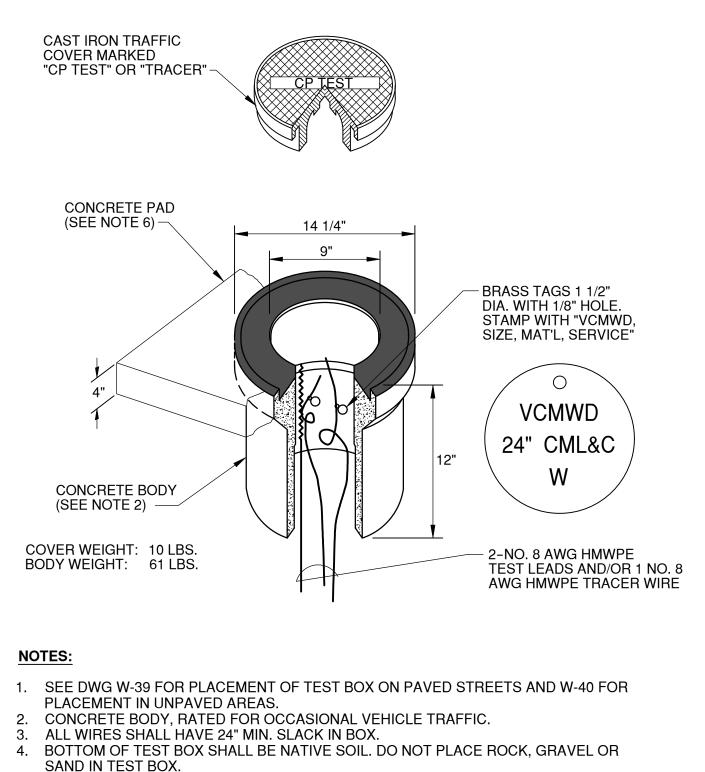


NOTES:

- 1. PROVIDE 18" SLACK WIRE AT WELD AND COILED IN TEST BOX.
- 2. WIRE TRENCH SHALL BE 24" DEEP MIN. PLACE 3" OF SAND OR D.G. BEDDING IN TRENCH BEFORE PLACING WIRES. COVER WIRES WITH 6" OF SAND OR D.G. COMPACT WIRE TRENCH FILL PER VCMWD STANDARD.
- 3. USE 6" WIDE, 4 MIL THICK INERT PLASTIC TAPE PRINTED WITH "CAUTION: CATHODIC PROTECTION CABLE BELOW". PLACE 12" BELOW GRADE.
- 4. TEST BOX TO BE PLACED BEHIND CURB IN SIDEWALK, BEYOND EDGE OF SIDEWALK, OR IN PLANTER AS SHOWN PER ENGINEER'S DIRECTION. IF NO CURB EXISTS, LOCATE TEST BOX JUST OFF PAVED SURFACE. IN UNPAVED AREAS OR PARKING LOTS, LOCATE TEST BOX OVER PIPE BUT NOT DIRECTLY IN PARKING SPACE.
- 5. PLACE TEST STATION DIRECTLY OVER PIPE IF POSSIBLE.
- CARSONITE MODEL R-845, YELLOW WITH BLACK CHARACTERS WITH "VALLEY CENTER MUNICIPAL WATER DISTRICT, UNDERGROUND CABLES, WARNING, BEFORE DIGGING CALL (760) 735-4500."

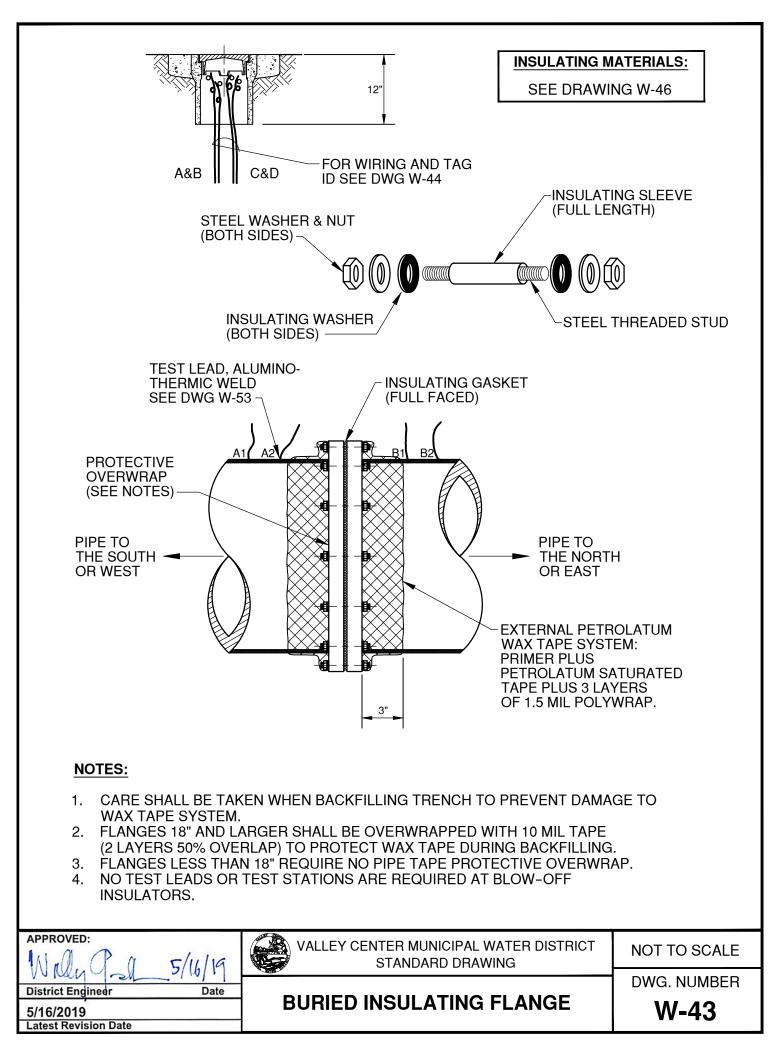
District Engineer Date 5/16/2019 Latest Revision Date	2 - WIRE TEST STATION (UNPAVED AREA)	dwg. number W-40
APPROVED: Willing 5/16/19	VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING	NOT TO SCALE

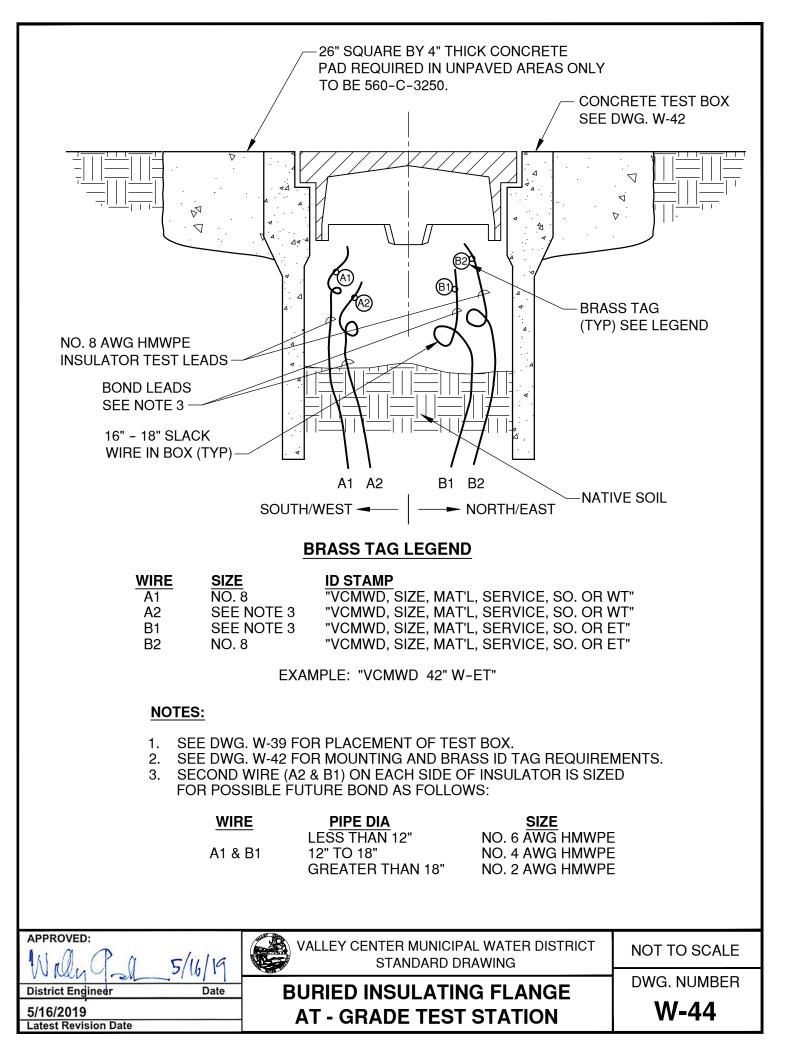


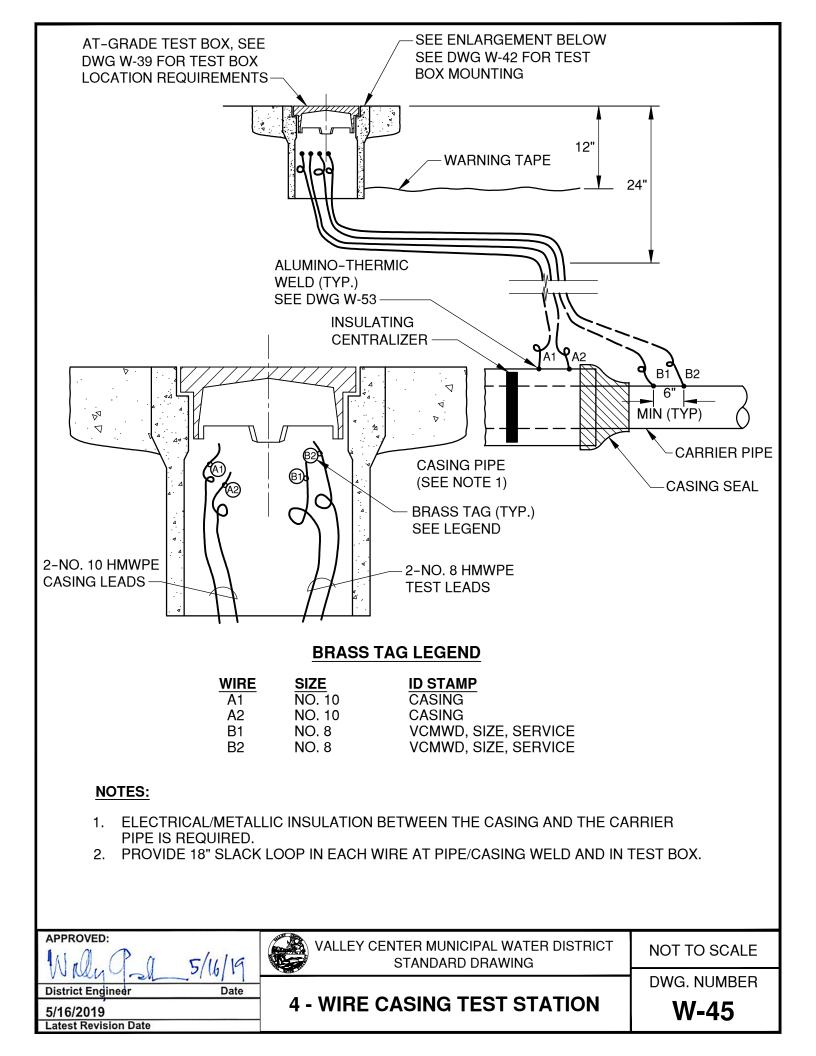


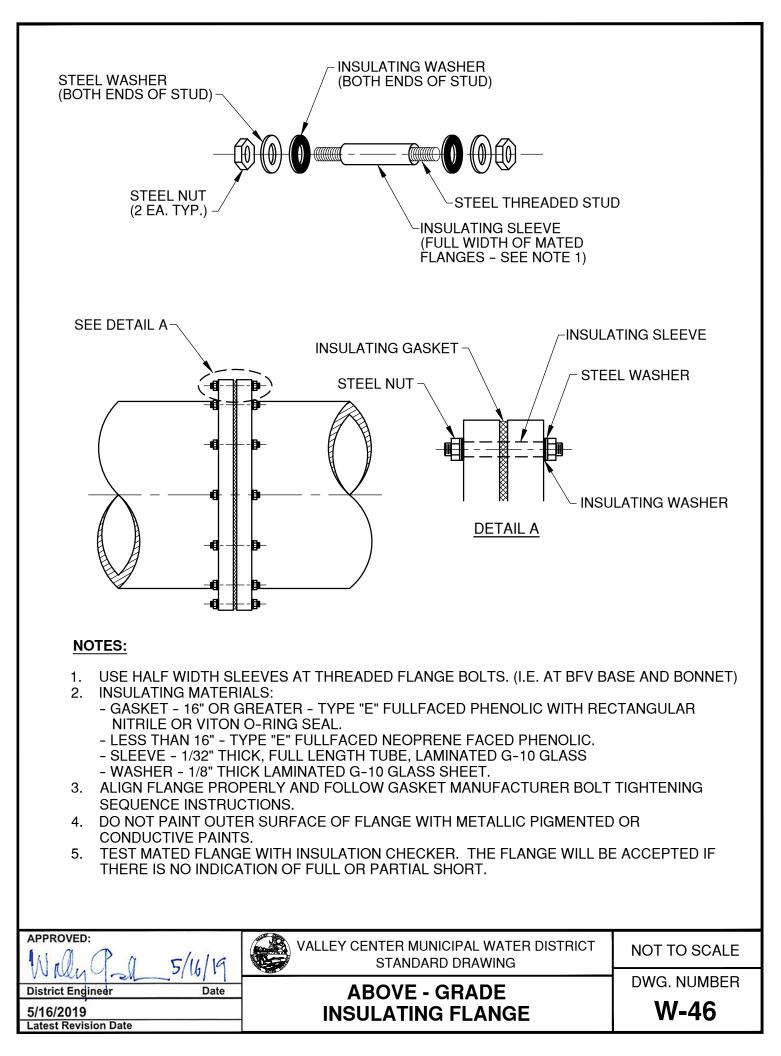
- 5. FIRMLY STAMP BRASS TAGS (1 1/2" DIA WITH 1/16" DIA. HOLE) "VCMWD, SIZE AND SERVICE" (EXAMPLE: VCMWD, 24" W). USE 1/4" HIGH CHARACTERS. SECURELY ATTACH BRASS TAGS TO TEST LEADS WITH BARE NO. 14 COPPER WIRE.
- 6. PROVIDE 26" x 26" x 4" THICK CONCRETE PAD AROUND TEST BOXES AT UNPAVED SITES. CONCRETE SHALL BE 560-C-3250.

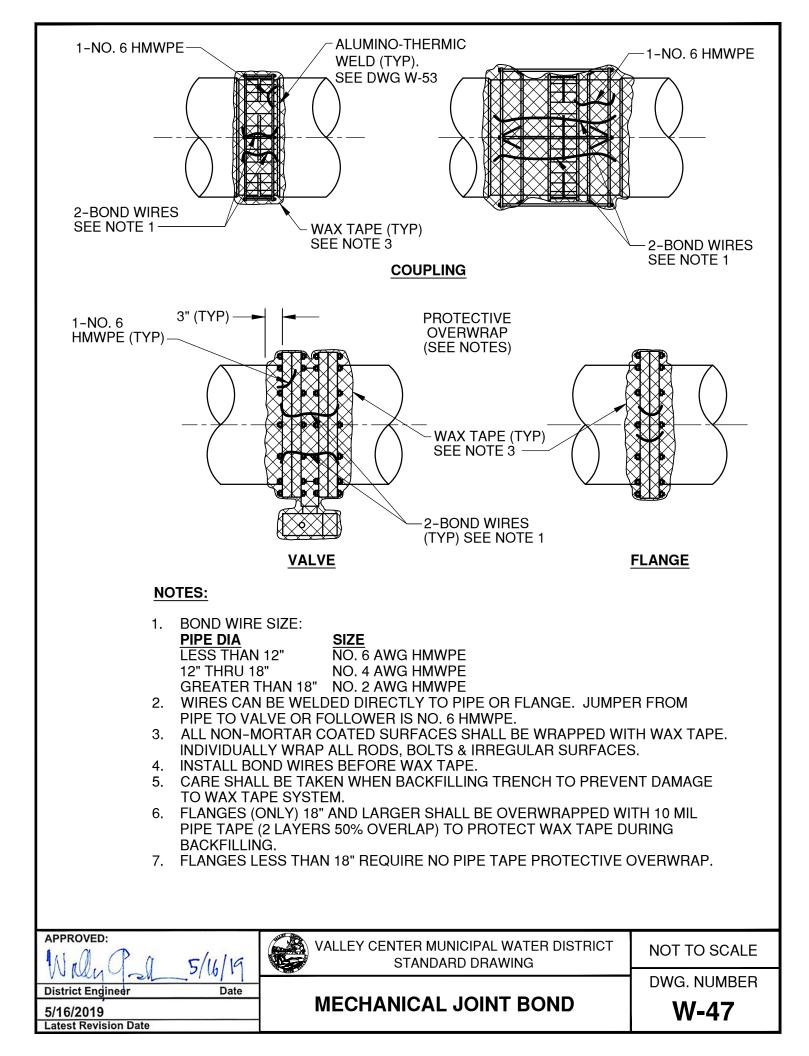
APPROVED: M = 0 = 0 = 5/16/19	VALLEY CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING	NOT TO SCALE
District Engineer Date		DWG. NUMBER
5/16/2019 Latest Revision Date	AT GRADE TEST BOX	W-42

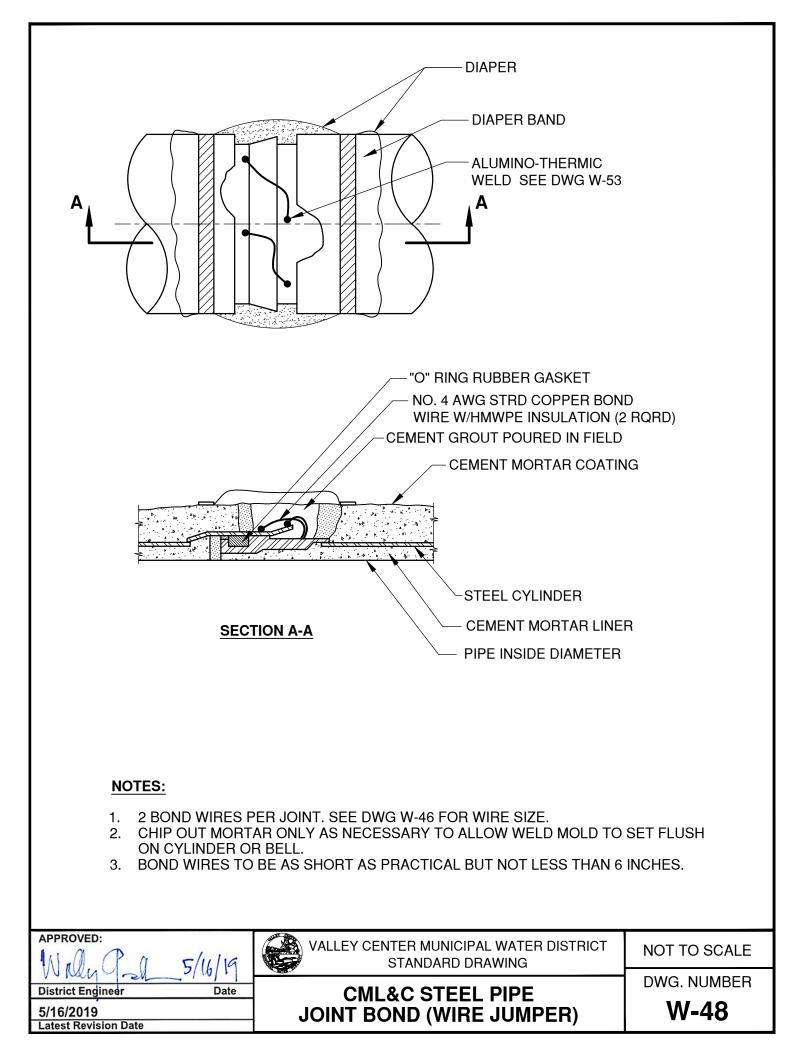


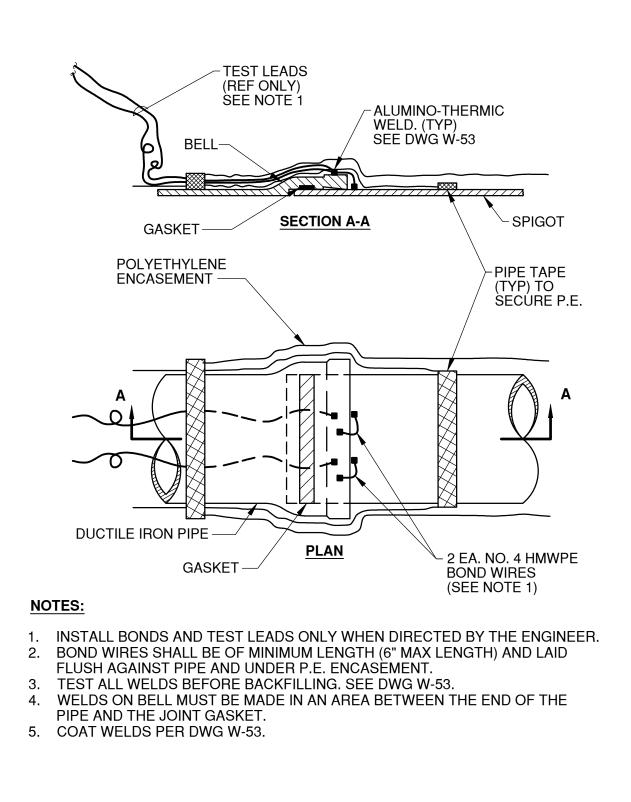












 APPROVED:
 Valley CENTER MUNICIPAL WATER DISTRICT STANDARD DRAWING
 NOT TO SCALE

 District Engineer
 Date
 DIP JOINT BONDING AND TEST LEAD CONNECTIONS
 DWG. NUMBER

 5/16/2019
 Latest Revision Date
 W-49

