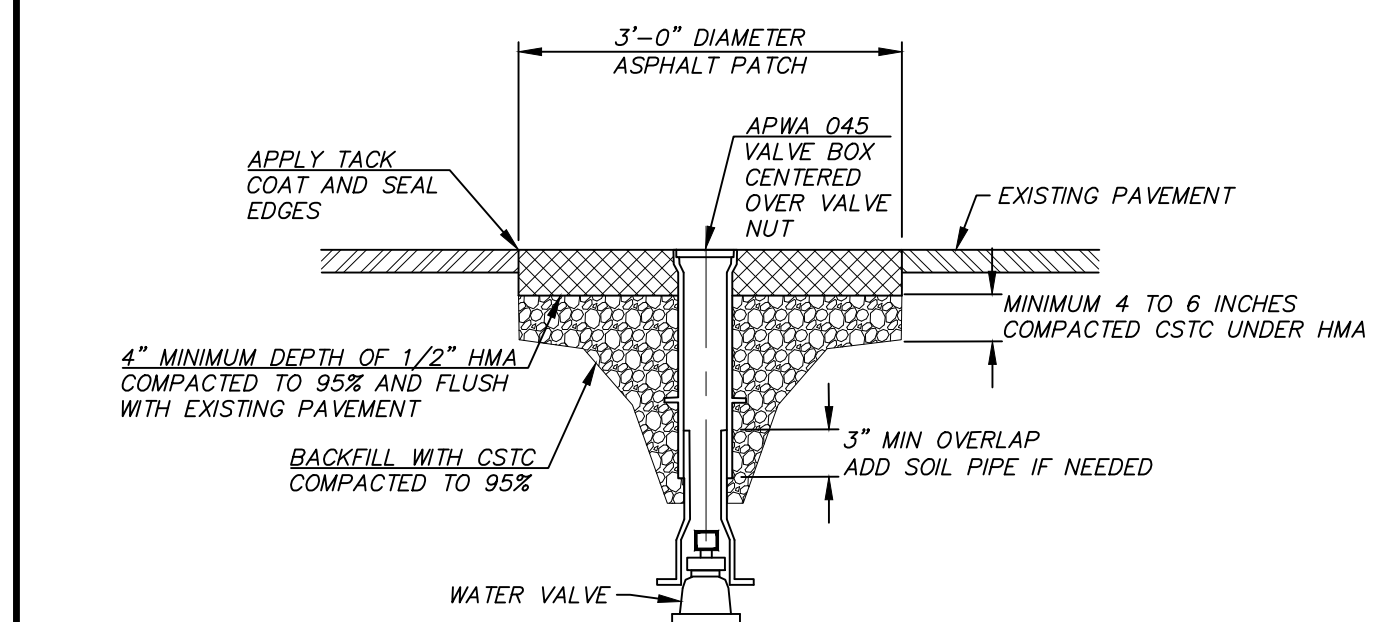


NOTES

1. THE COMPLETED PATCH SHALL BE FLUSH WITH THE SURROUNDING FINAL GRADE, SHALL NOT BE MORE THAN 1/8" FLUSH WITH THE SURROUNDING PAVEMENT, AND SHALL BE SMOOTH FOR TRAFFIC.
2. WHEN RAISING THE VALVE BOX TO FINISHED GRADE, EXCAVATE CASTING TO A DEPTH NECESSARY TO VERIFY CASTING OVERLAPS SOIL PIPE BY 3". ADD SOIL PIPE AS NEEDED. VALVE BOX SHALL BE CENTERED OVER THE VALVE NUT.
3. SLIP CANS ARE NOT ALLOWED WHEN RAISING VALVE BOXES TO GRADE.

VALVE BOX ASPHALT COLLAR DETAIL FOR NON-PAVED AREAS

REV. 10/20/17

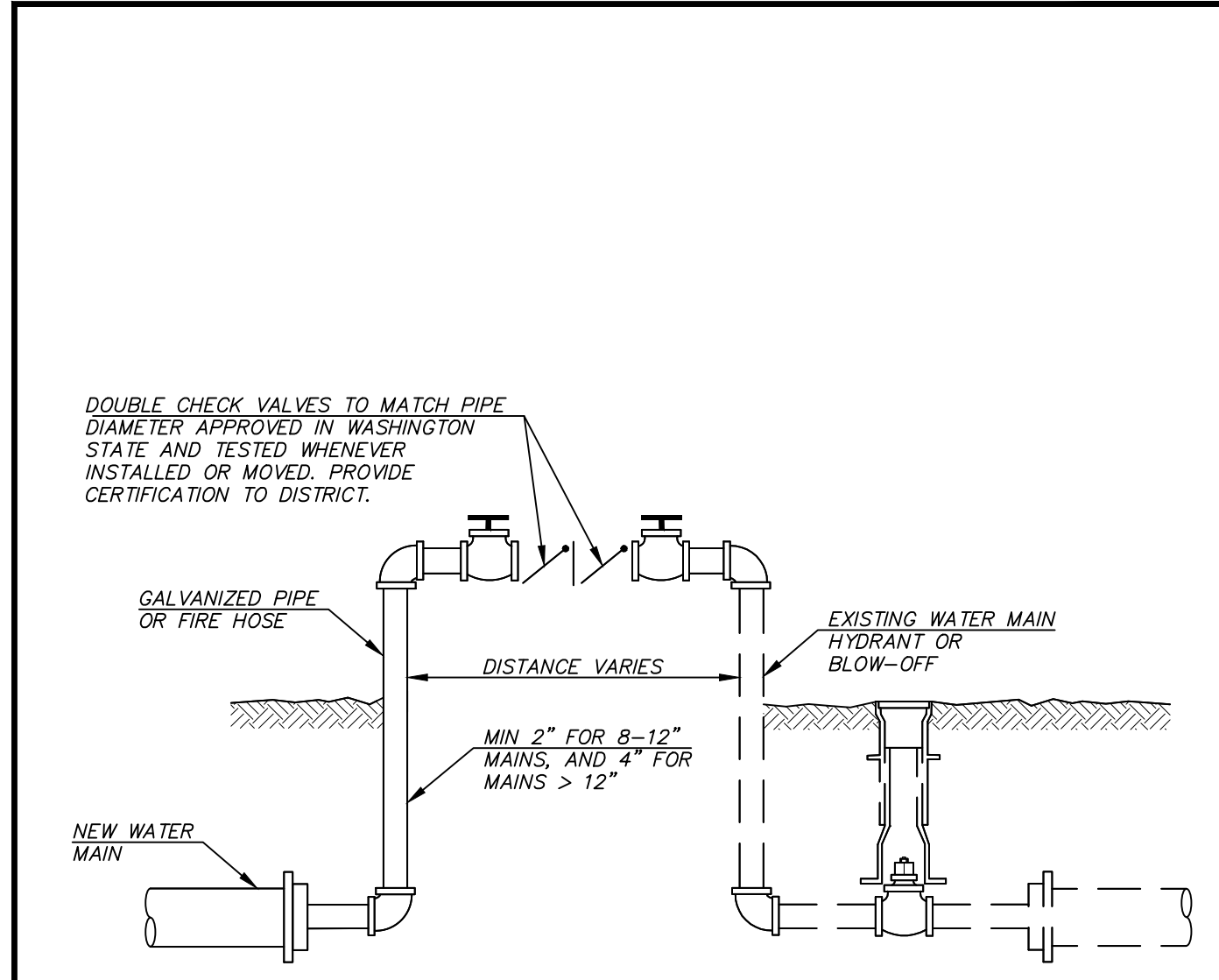


NOTES

1. VALVE CANS SHALL BE RAISED TO GRADE AFTER PLACEMENT OF THE ASPHALT'S FINAL LIFT AND WITHIN 48 HOURS UNLESS OTHERWISE APPROVED BY THE DISTRICT.
2. NEATLY REMOVE ASPHALT AROUND EXISTING VALVE CASTING.
3. EXCAVATE VALVE CASTING TO A DEPTH NECESSARY TO RAISE CASTING AND VERIFY CASTING OVERLAPS SOIL PIPE BY 3". ADD SOIL PIPE AS NEEDED. VALVE BOX SHALL BE CENTERED OVER THE VALVE NUT.
4. SLIP CANS ARE NOT ALLOWED.
5. BACKFILL WITH CSTC COMPACTED TO 95% (MODIFIED PROCTOR).
6. INSTALL 1/2" HMA IN 2-INCH LIFTS, TO A COMPACTED DEPTH EQUAL TO THE EXISTING PAVEMENT OR A MINIMUM OF 4", WHICHEVER IS GREATER. TACK ALL EDGES AND SEAL FINISH JOINTS WITH TAR AND SAND.
7. THE COMPLETED PATCH SHALL BE FLUSH WITH THE SURROUNDING PAVEMENT, SHALL NOT VARY FROM BEING FLUSH BY MORE THAN 1/8", AND SHALL BE SMOOTH FOR TRAFFIC.

VALVE BOX PAVEMENT PATCH DETAIL AND PAVED AREAS

REV. 10/20/17

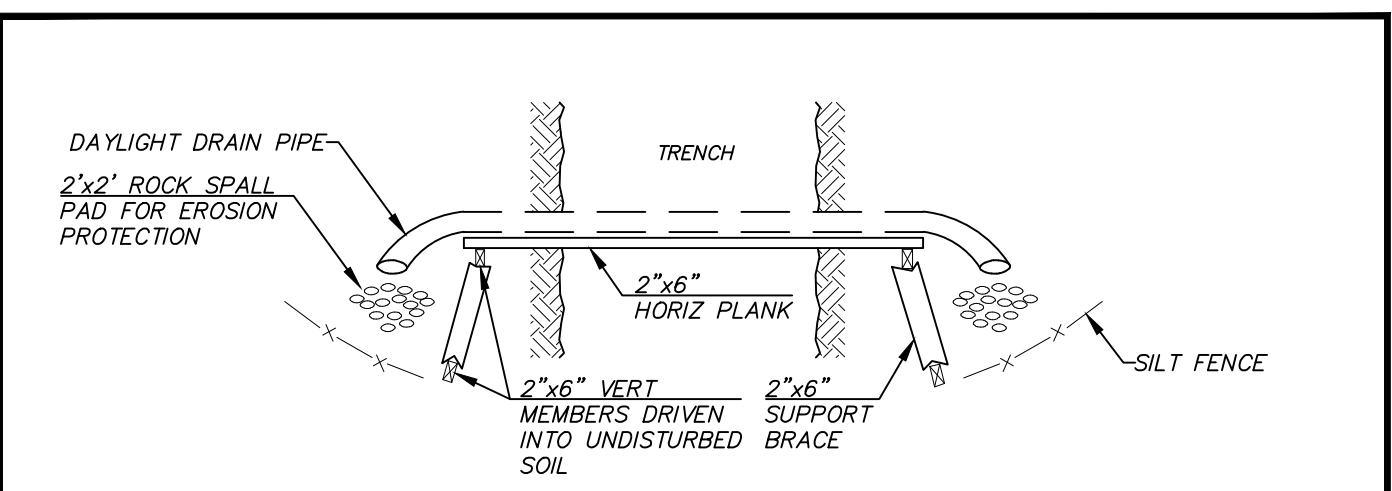


NOTES

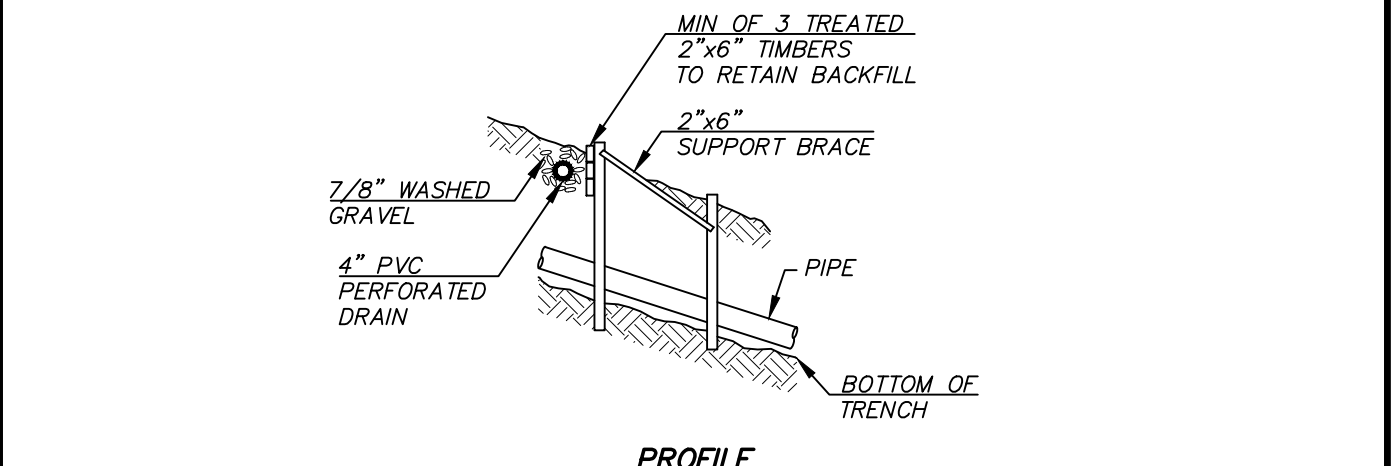
1. FOR BELOW GROUND INSTALLATION, USE TYPE II BLOW-OFF ASSEMBLY, MODIFIED AS REQUIRED BY DISTRICT. INSTALL IN AREA NOT SUBJECT TO FLOODING.
2. ALL FILLING AND FLUSHING SHALL BE METERED BY DISTRICT. PROVIDE SPACE FOR INSTALLATION OF METER.
3. ALL NEW MAINS SHALL BE KEPT SEPARATE FROM THE DISTRICT'S EXISTING SYSTEM UNTIL THE NEW MAINS ARE TESTED AND ACCEPTED. FINAL CONNECTION REQUIRES 100% INSPECTION BY DISTRICT.
4. PROTECT ABOVE GROUND INSTALLATION FROM DAMAGE AND FREEZING.

TESTING CONNECTION

REV. 10/18/17

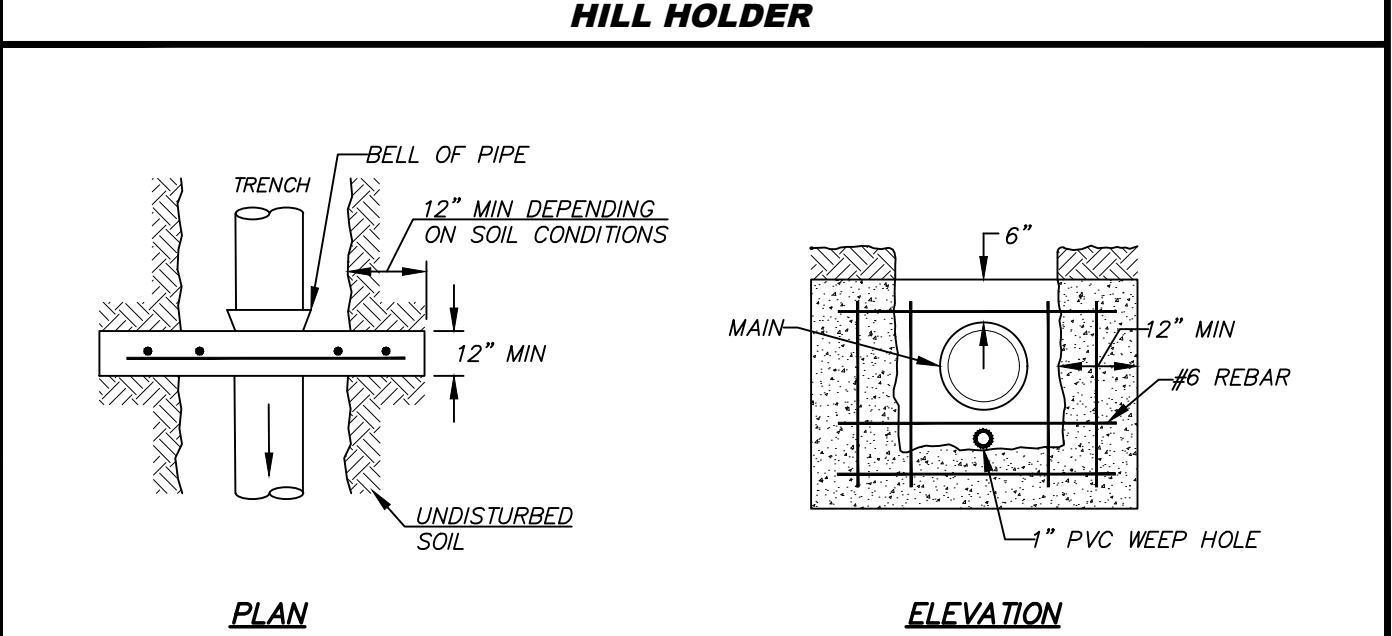


PLAN



PROFILE

REV. 10/20/17

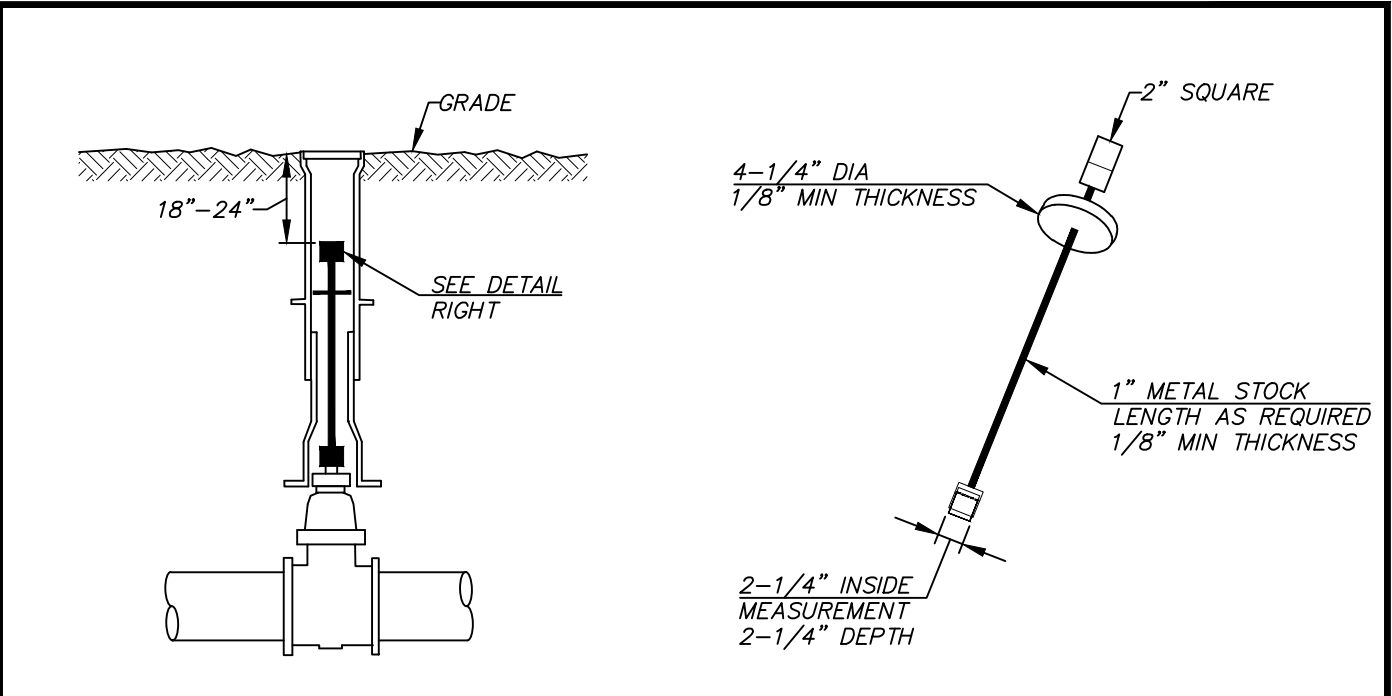


PLAN

ELEVATION

PIPE ANCHOR

REV. 10/20/17

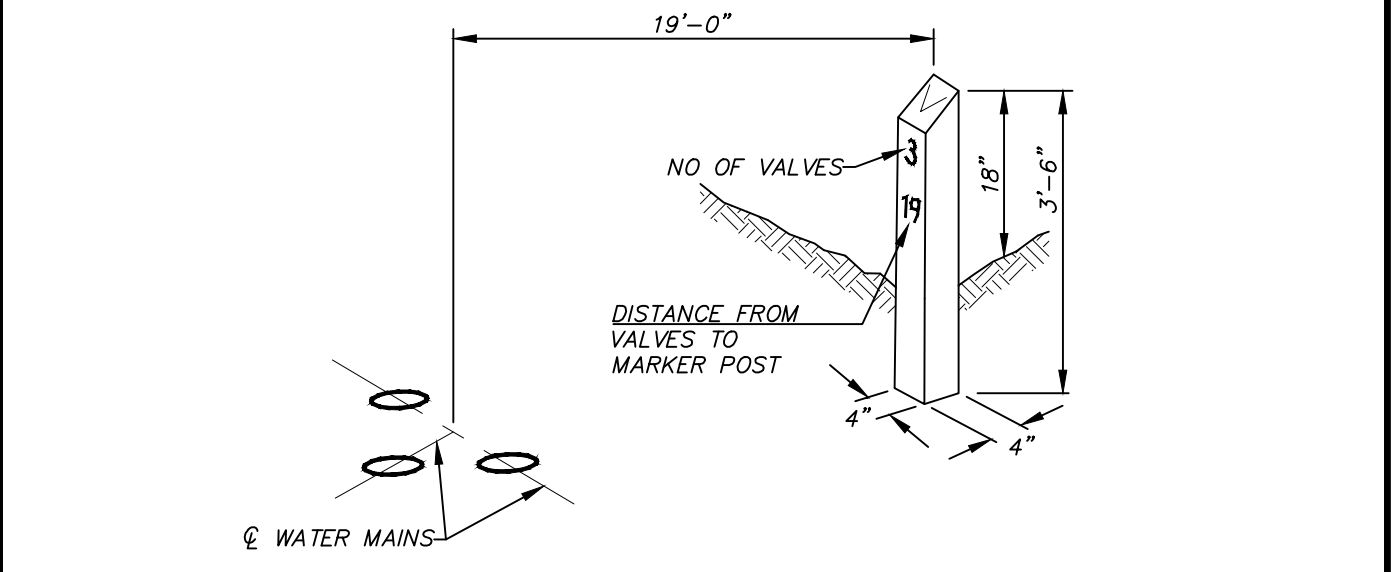


NOTE
EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN 36" BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE (1) FOOT LONG. ONLY ONE EXTENSION TO BE USED PER VALVE. VALVE EXTENSION TO BE WITHIN 18" TO 24" OF FINISHED GRADE.

NOTE
ALL EXTENSIONS ARE TO BE MADE OF STEEL SIZED AS NOTED, AND PAINTED WITH TWO COATS OF CARBON ELASTIC (ATCO #222) AS SPECIFIED BY PRESERVATIVE PAINT CO. OR AN APPROVED EQUAL.

VALVE OPERATING NUT EXTENSION

REV. 10/24/17

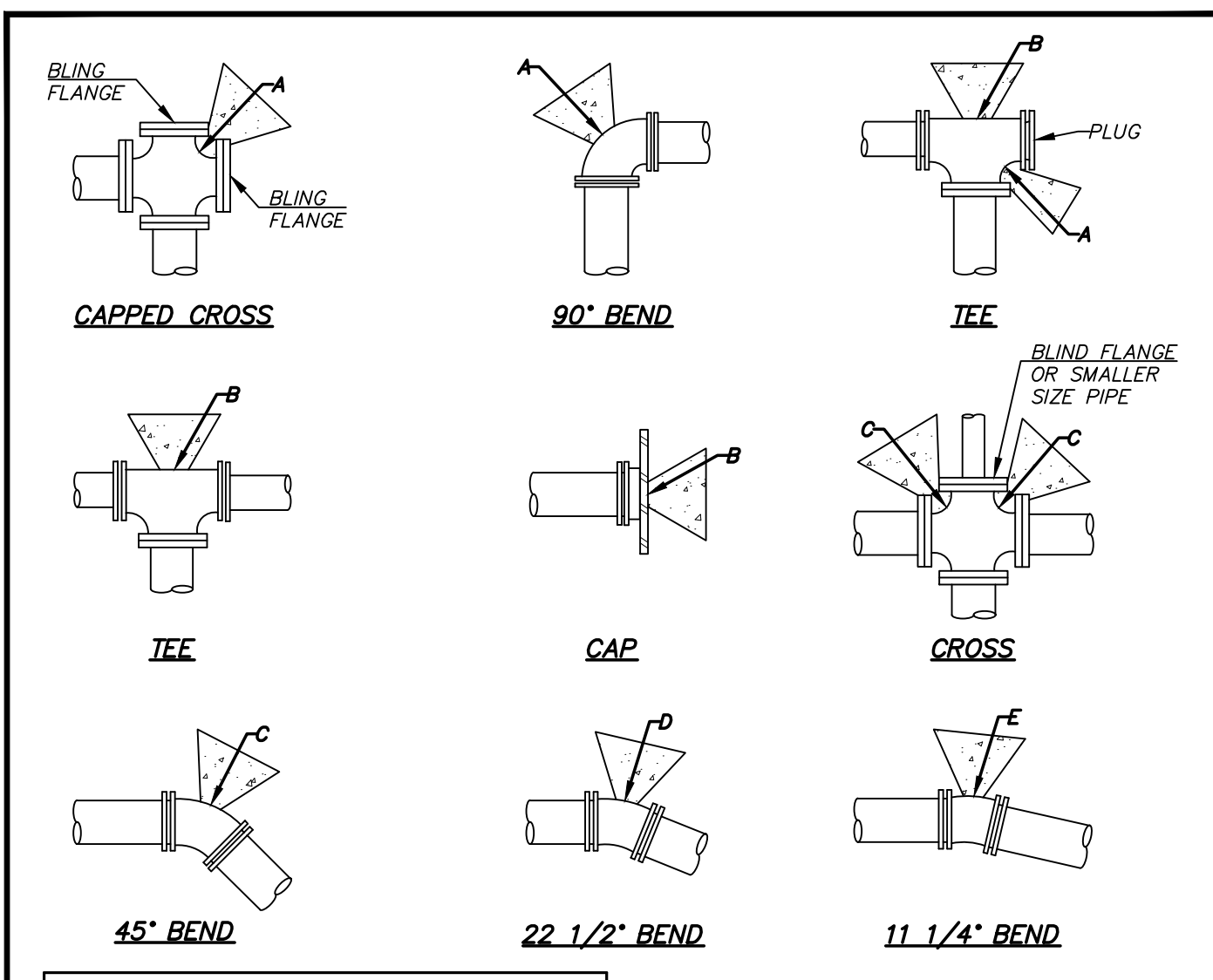


NOTES

1. VALVE MARKER POST SHALL BE A FOOTITE VALVE MARKER OR APPROVED EQUAL.
2. THE POST SHALL BE SET AT RIGHT ANGLES TO THE ROADWAY FROM THE VALVE AND SHALL BE SITUATED IN A SAFE AND REASONABLY CONSPICUOUS LOCATION.
3. FOR MORE THAN ONE VALVE, THE NUMBER OF VALVES SHALL BE NOTED NEAR THE TOP OF THE POST WITH THE DISTANCE TO THE CENTER OF THE VALVE (OR CLUSTER) MARKED BELOW.
4. PAINT VALVE MARKER WITH (2) COATS ALKYD INDUSTRIAL ENAMEL SAFETY YELLOW AND APPLY NUMBER OF VALVES AND DISTANCE (TO THE CLOSEST FOOT) TO THE LINE VALVE CAPS IN COLE NUMBERS APPLIED WITH WATERPROOF LIQUID NAILS.

VALVE MARKER POST

REV. 10/24/17



THRUST BLOCK TABLE
MIN BEARING AREA AGAINST UNDISTURBED SOIL (SF)

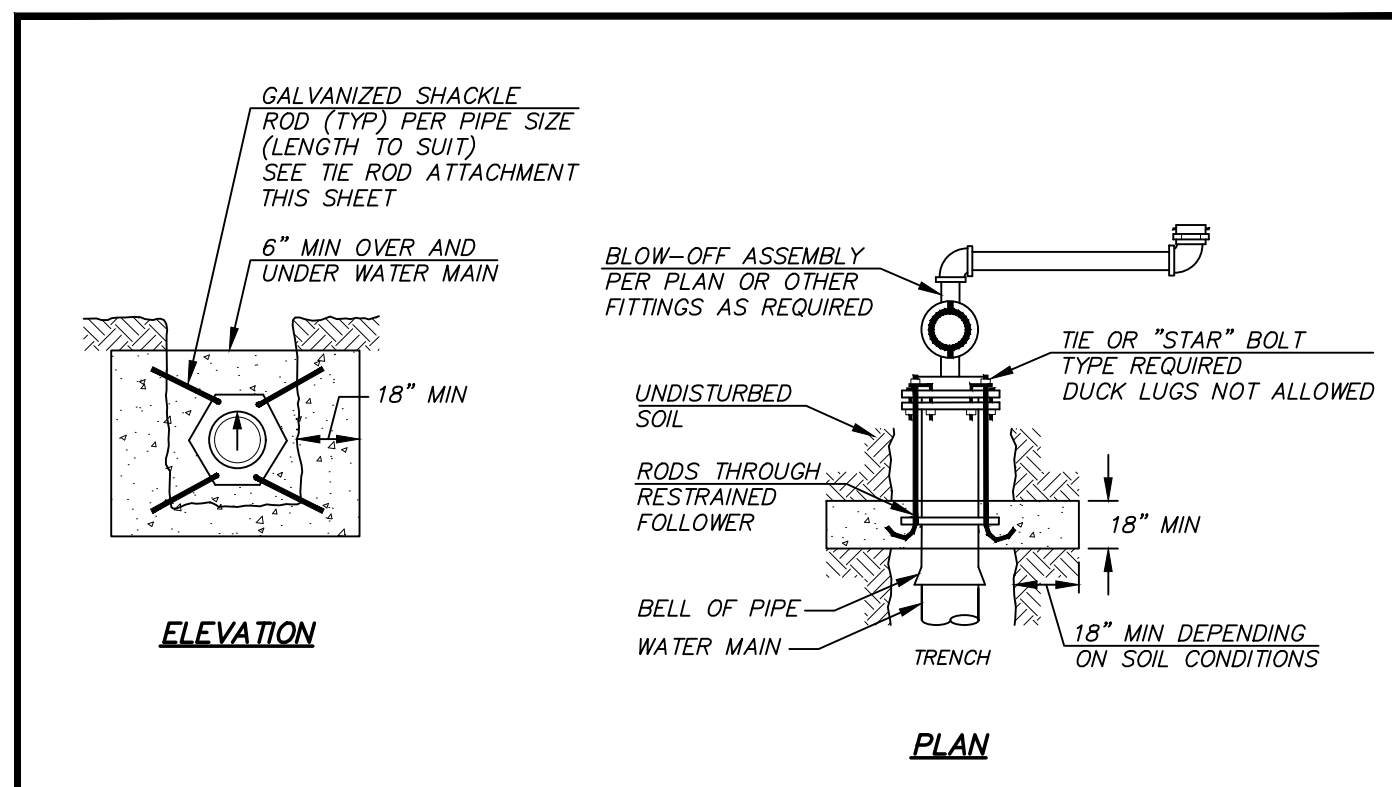
PIPE SIZE	A(FT ²)	B(FT ²)	C(FT ²)	D(FT ²)	E(FT ²)	X
4"	3	1	1	1	1	NONE
6"	4	4	2	1	1	NONE
8"	7	6	4	2	1	4
10"	11	10	6	3	2	6
12"	16	14	9	5	3	9
14"	22	19	12	6	3	12
16"	29	25	16	8	4	16
18"	36	31	20	10	5	20
20"	45	39	24	13	6	24
22"	54	47	29	15	8	29
24"	64	56	35	18	9	35
28"	87	76	48	24	12	48
30"	101	87	55	28	14	55
36"	145	125	78	40	20	78
42"	197	171	107	55	27	107
48"	257	223	140	71	36	140

NOTES

1. BEARING AREA OF CONCRETE THRUST-BLOCK BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2,000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST-IN-PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING OF JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATION PRESSURE UNDER ALL CONDITIONS OF SERVICE.

CONCRETE BLOCKING

REV. 10/20/17

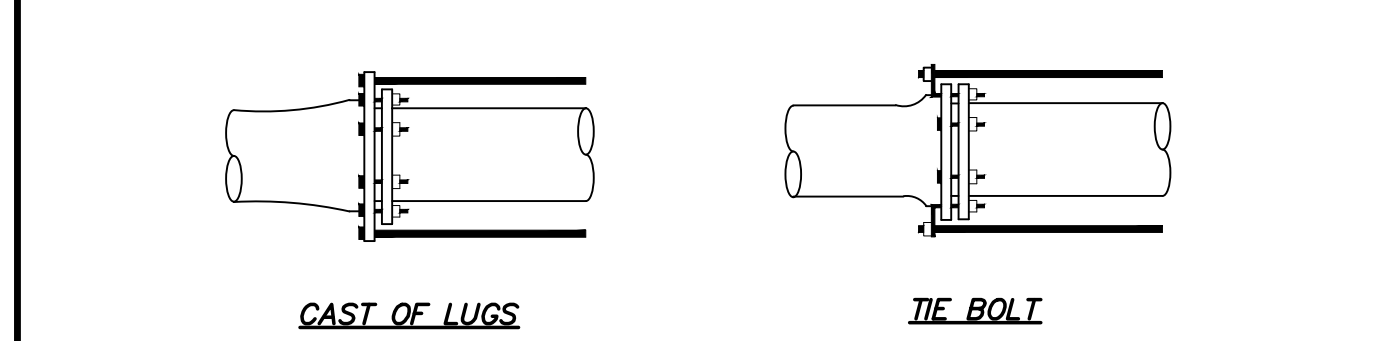


ELEVATION

PLAN

DEADMAN

REV. 10/18/17



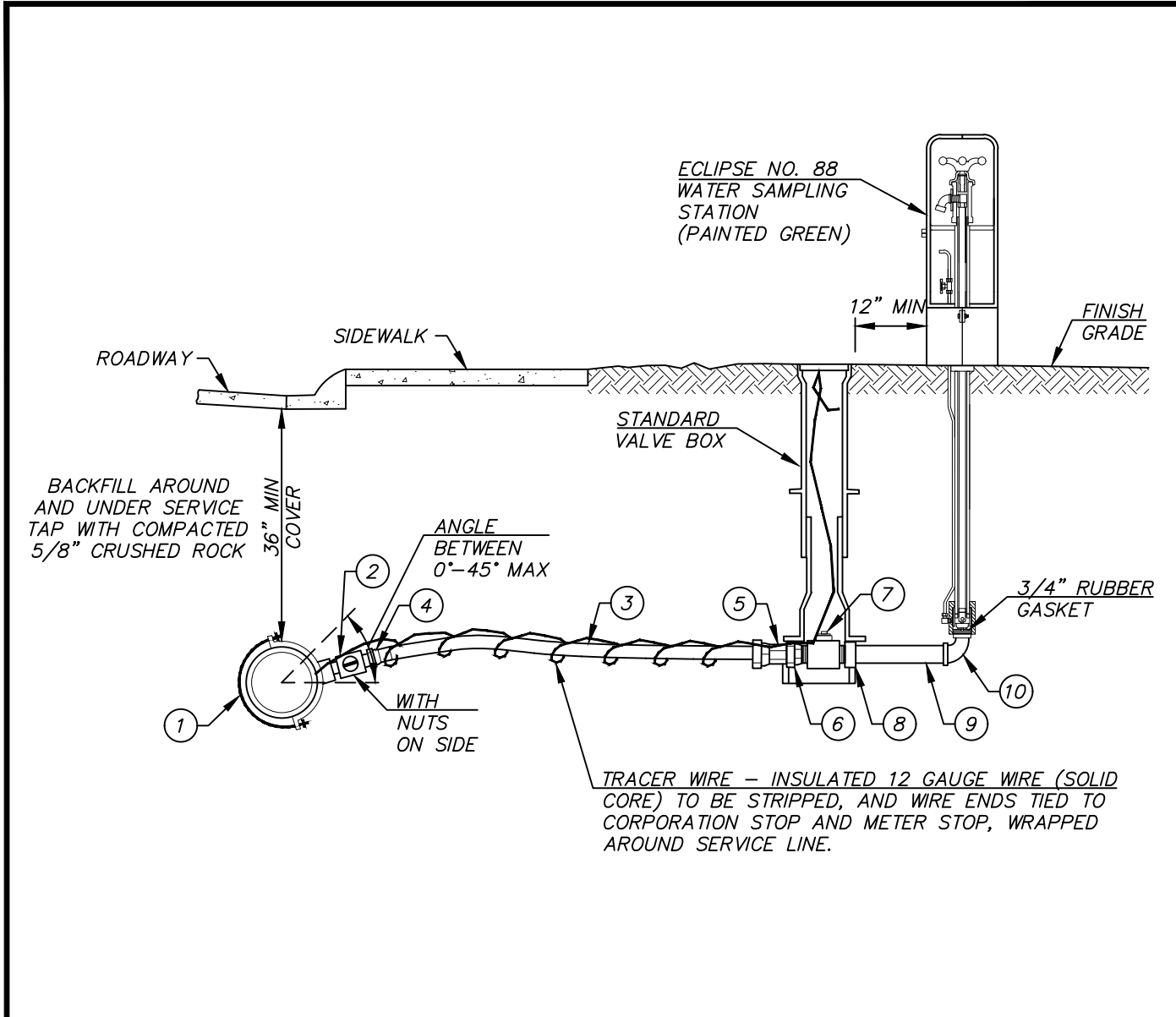
CAST OF LUGS

TIE BOLT

SIZE	PRESSURE PSI	FORCE IN POUNDS	NUMBER OF TIE RODS													
			2	3	4	6	8	10	12	14	16	24				
3"	300	2,120	3/8"													
4"	300	3,780	3/8"													
6"	300	8,500	5/8"	1/2"	3/8"											
8"	300	15,100	3/4"	5/8"	1/2"											
10"	275	21,620	3/4"	5/8"	1/2"											
12"	250	33,930		3/4"	5/8"											
14"	250	46,200			3/4"	5/8"										
16"	225	45,250			3/4"	5/8"										
18"	200	50,900			3/4"	5/8"										
20"	200	62,840				3/4"	5/8"									
24"	200	90,480					3/4"	5/8"								
30"	200	141,370						3/4"	5/8"	1"	7/8"					
36"	200	203,580										1"	7/8"			

TIE ROD ATTACHMENTS

REV. 10/18/17



ITEM	DESCRIPTION	FORD PART NO	MUELLER PART NO	A.Y. MCDONALD	OTHER PART NO	QTY
①	1" SADDLE I.P.T.	N/A	N/A	N/A	ROMAC 202S	1
②	1" CORPSTOP (MIPxMIP)	FB500-4	B2996	3131B1	N/A	1
③	1" HDPE PIPE	— DRISCOPLEX 5100 ULTRA LINE SDR7 200 PSI IPS OR PW EAGLE—				1
④	1" FIPxCOMPRESSION ADAPTOR	C16-44P *	H15454.10	4754-33	N/A	2
⑤	W/ STAINLESS STEEL STIFFENER	INSERT-72	505142	6136	N/A	2
⑥	1" PAC JOINT x 1" MIP	C86-44	H15429	475-CP	N/A	1
⑦	1" FIP x 3/4" FIP REDUCER	C11-43	N/A	N/A	N/A	1
⑧	3/4" BALL CORP MIP x MIP	FB500-3	N/A	N/A	N/A	1
⑨	3/4" COUPLING	N/A	N/A	N/A	N/A	1
⑩	3/4" BRASS NIPPLE	N/A	N/A	N/A	N/A	1
⑪	3/4" 90° BRASS STREET ELL	N/A	N/A	N/A	N/A	1

* QUICK JOINT ACCEPTABLE, GRIP JOINT NOT ACCEPTABLE

NOTES

1. ALL PIPE AND FITTINGS TO BE ASSEMBLED WITH TEFLON TAPE AND PIPE DOPE UNLESS OTHERWISE NOTED.
2. SERVICE LINES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN.
3. THE SERVICE LINE SHALL BE INSTALLED TO ALLOW FOR THE FAR SIDE OF THE SAMPLE STATION TO BE INSTALLED IN THE R/O/W OR EASEMENT LINE, UNLESS OTHERWISE DIRECTED BY THE DISTRICT.

WATER SAMPLING STATION

REV. 10/30/17

NO.	DATE	BY	DATE

Samamish Plateau Water
1510 228th Avenue SE, Sammamish, WA 98075
425.392.6256 • spwater.org

STANDARD DETAILS
WATER DETAILS

DATE: 10/24/2017
DRAWN: JTF
CHECKED: KAW
JOB NO.:

SHEET
2
OF
2