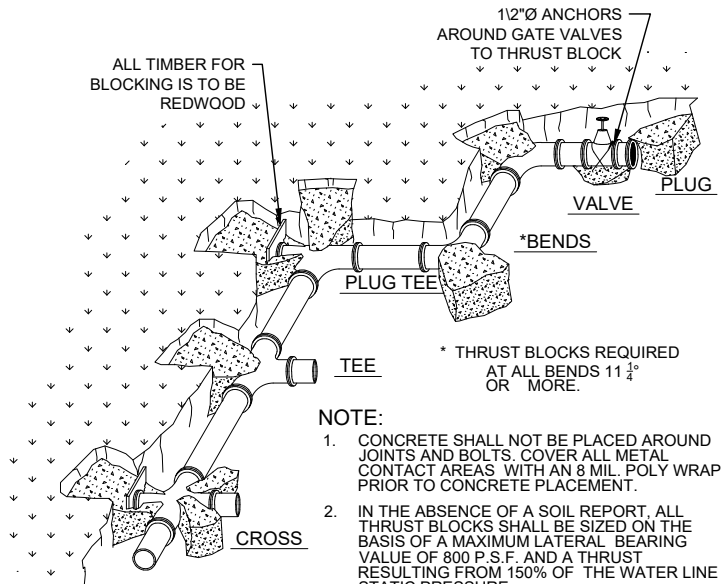


DISTRICT MANAGER, DATE APPROVED



NOTE:

1. CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH AN 8 MIL. POLY WRAP PRIOR TO CONCRETE PLACEMENT.
2. IN THE ABSENCE OF A SOIL REPORT, ALL THRUST BLOCKS SHALL BE SIZED ON THE BASIS OF A MAXIMUM LATERAL BEARING VALUE OF 800 P.S.F. AND A THRUST RESULTING FROM 150% OF THE WATER LINE STATIC PRESSURE.

TABLE OF BEARING AREAS IN SQ. FT FOR CONCRETE THRUST BLOCKING

SIZE	BENDS				TEES*	GATE VALVES	DEAD ENDS	CROSSW/ 1BRANCH PLUGGED	CROSSW/ 2 BRAN. PLUGGED
	90°	45°	22 1/2°	11 1/4°					
3	1.0	0.0	0.3	0	0.7	0.5	0.7	0.7	0.7
4	1.8	1.0	0.5	0	1.3	0.5	1.3	1.3	1.3
6	4.0	2.2	1.1	0	2.8	0.7	2.8	2.8	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0	5.0	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8	7.8	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3	11.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4	15.4	15.4
15	25.0	13.5	7.0	3.5	17.6	SPECIAL DESIGN	17.6	17.6	17.6
16	28.4	15.3	8.0	4.0	20.0		20.0	20.0	20.0
18	36.0	19.4	10.0	5.0	25.4		25.4	25.4	25.4
20	44.2	24.0	12.2	6.1	31.4		31.4	31.4	31.4
21	49.0	26.5	13.5	6.8	34.6		34.6	34.6	34.6
22	54.0	29.0	14.8	7.4	38.0		38.0	38.0	38.0
24	64.0	34.5	17.7	8.8	45.0		45.0	45.0	45.0
30	100.0	54.0	27.6	13.8	71.0		71.0	71.0	71.0
36	144.0	78.0	40.0	20.0	102.0		102.0	102.0	102.0

*SIZE IS BRANCH SIZE.

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1000 LBS.PER SQ. FT. SOIL BEARING CAPACITY.

*ALL VALVES, TEES, CROSSES AND BENDS SHALL ALSO BE FITTED WITH MECHANICAL RESTRAINTS, SUCH AS MEGA LUG OR ROMA GRIP WITH FLUOROPOLYMER COATED BOLTS AND NUTS.

AREAS GIVEN IN TABLE ARE BASED UPON AN INTERNAL STATIC PRESSURE OF 100 P.S.I AND A SOIL BEARING CAPACITY OF 1000 LBS PER SQ. FT. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F".

$$F = \frac{\text{ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS/SQ. IN.}}{\text{ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.}}$$

EXAMPLE: TO FIND BEARING AREA FOR 8"-90° BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.

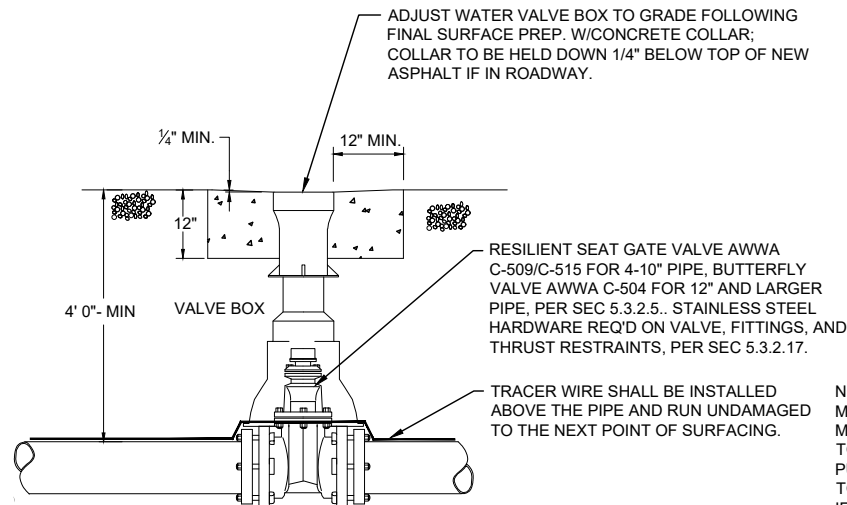
$$F = 1.5 / 3 = 0.5 \text{ TABULATED VALUE} = 7.1 \text{ SQ. FT.} \\ 0.5 \times 7.1 = 3.56 \sim 4 \text{ SQ. FT. } (\sim \text{OR } 2\text{FT. LONG BY } 2\text{FT. HIGH.})$$

1

THRUST BLOCK DETAIL

APPLIES TO ALL PRESSURE PIPE

NTS



NOTE: VALVE BOX, RISER AND LID MUST COME FROM THE SAME MFR., BE INTENDED FOR USE TOGETHER AND SHALL BE WITHIN PUBLISHED DIMENSION TOLERANCES. IF LOCATED IN ROADWAY W/ SPEED LIMIT OF 40 MPH OR GREATER, LID SHALL BE HEAVY AND EXTRA DEEP.

2

TYPICAL VALVE DETAIL

NTS

DRAFTED: RP
DESIGNED: RP/MD
CHECKED: RR/MD

REVISIONS:
REV 1:
REV 2:
REV 3:
REV 4:
REV 5:



STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
THRUST BLOCK DETAIL
TYPICAL VALVE DETAIL

SHEET 1



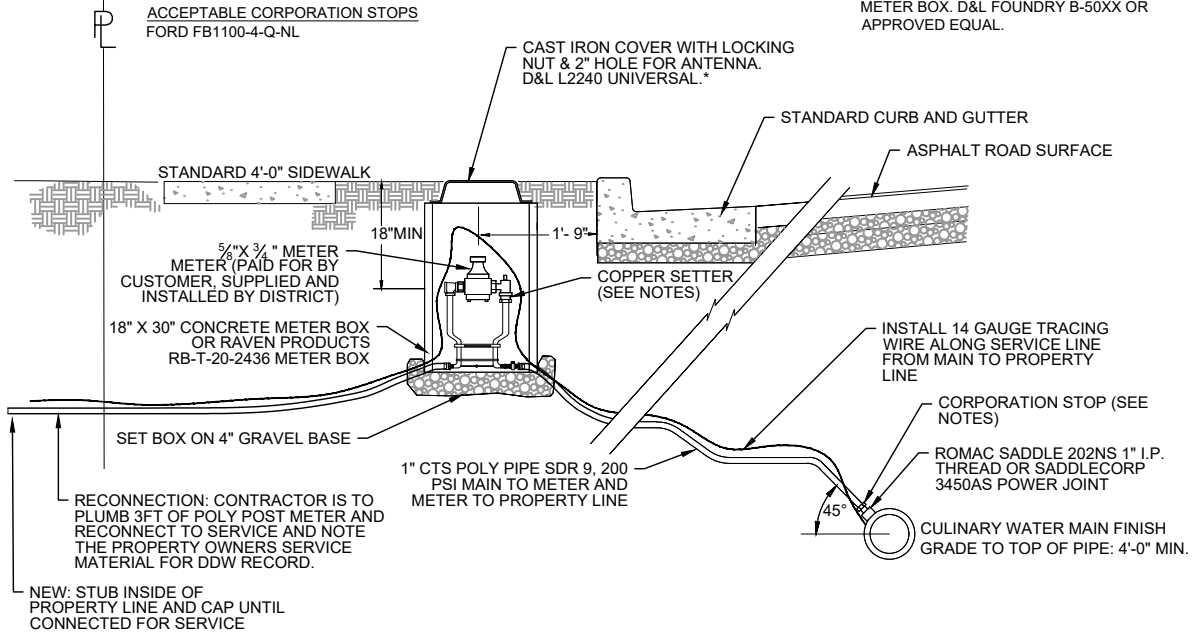
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NOTES:

ACCEPTABLE COPPER SETTERS
FORD VBHC 72-18W-44-44QNL

ALL COMPRESSION FITTINGS:
SHALL HAVE STAINLESS STEEL INSERTS

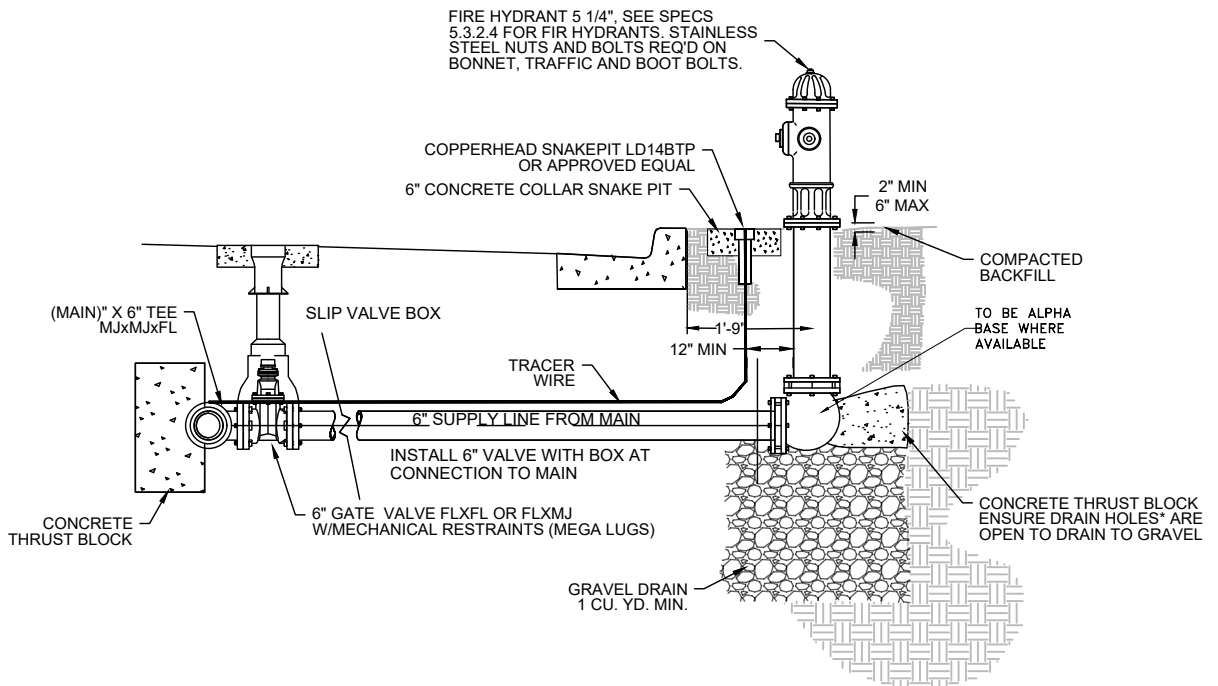
* WHERE METER BOX LID IS SURROUNDED BY CONCRETE THE RING AND COVER SHALL BE FLAT SO THE RING OPENING IS THE SAME DIAMETER AS THE INSIDE DIAMETER OF THE METER BOX. D&L FOUNDRY B-50XX OR APPROVED EQUAL.



4

TYPICAL 3/4 IN WATER CONNECTION\RE-CONNECTION

NTS



5

FIRE HYDRANT DETAIL

NTS

DRAFTED: RP	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT. UTAH DDW APPROVAL 6/2020
REV 1: DETAIL 4- REVISED DETAIL TITLE TO INCLUDE "3/4 IN"	
REV 2:	
REV 3:	
REV 4:	
REV 5:	



STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
TYPICAL WATER CONNECTION DETAIL
FIRE HYDRANT DETAIL

SHEET 3



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FIRE HYDRANT 5 1/4", SEE
SPECS SEC 5.3.2.4 FOR FIRE
HYDRANTS. STAINLESS
STEEL NUTS AND BOLTS
REQ'D ON BONNET, TRAFFIC
AND BOOT BOLTS.



NTS

REUSE EXISTING HYDRANT EX. BURY-
STANDPIPE WITH RELOCATION AND
CONNECTION TO NEW WATERLINE

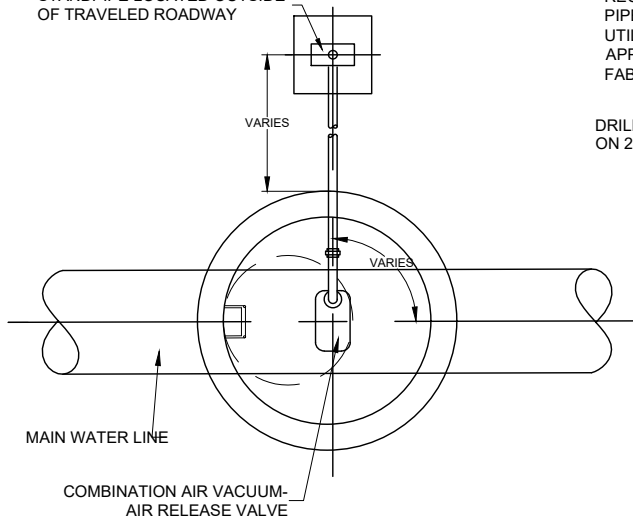


NTS

SHEET 3A



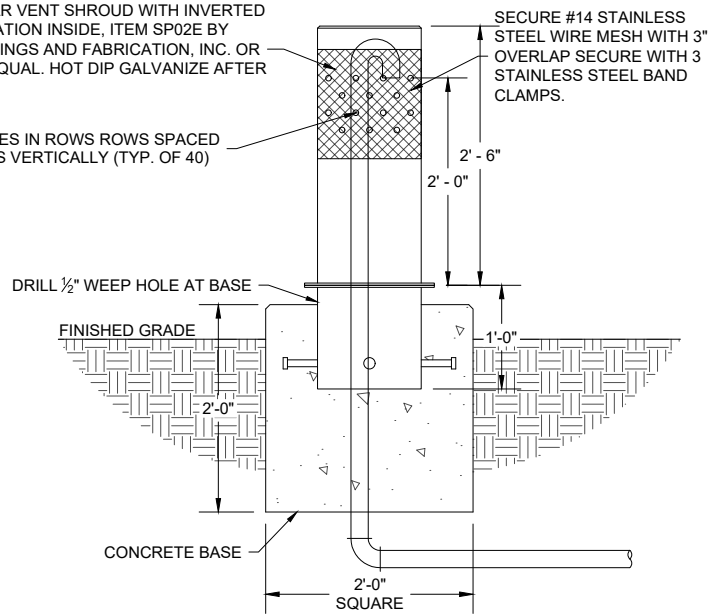
STANDPIPE LOCATED OUTSIDE
OF TRAVELED ROADWAY



AIR VALVE PLAN VIEW
NTS

RECTANGULAR VENT SHROUD WITH INVERTED
PIPE TERMINATION INSIDE, ITEM SP02E BY
UTILITY COATINGS AND FABRICATION, INC. OR
APPROVED EQUAL. HOT DIP GALVANIZE AFTER
FABRICATION

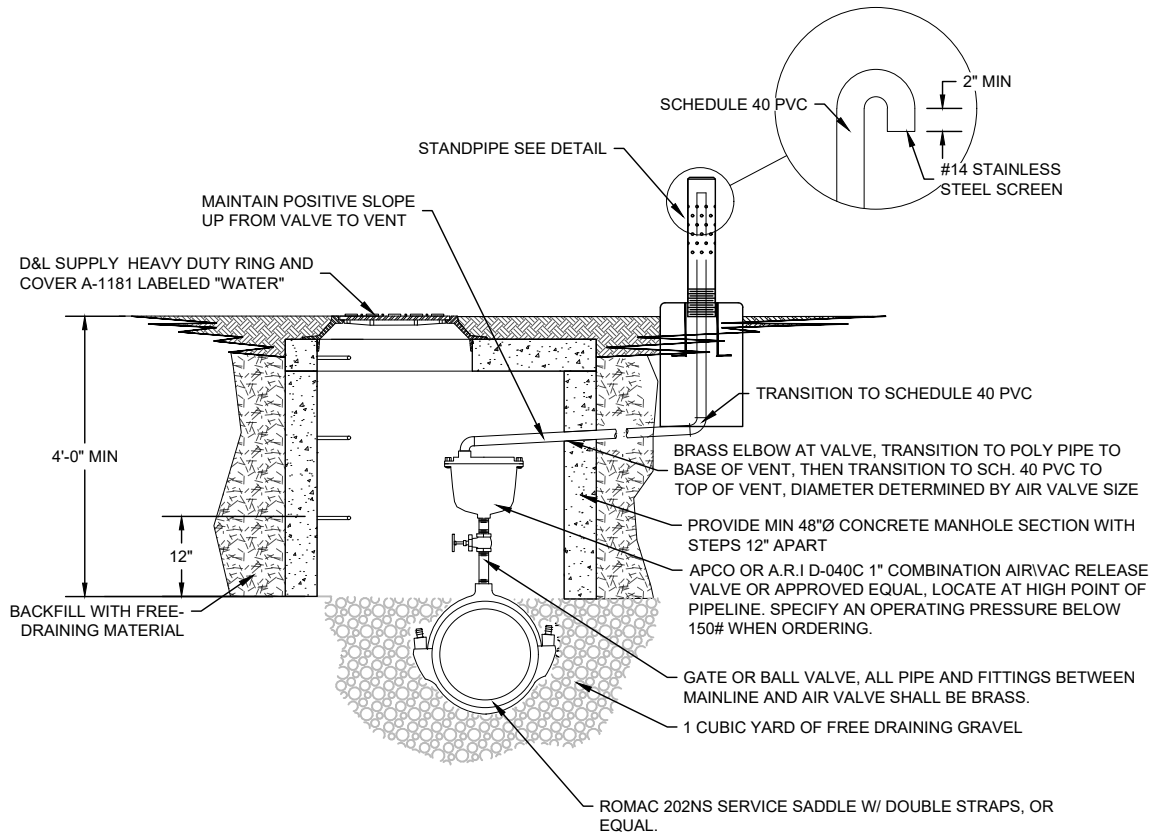
DRILL $\frac{1}{2}$ " Ø HOLES IN ROWS ROWS SPACED
ON 2" CENTERS VERTICALLY (TYP. OF 40)



STANDPIPE DETAIL
NTS

NOTES:

1. LOCATE STANDPIPE WELL OUTSIDE TRAVELED ROADWAY OR AS DIRECTED
BY THE ENGINEER. INSTALL 4" STEEL PIPE FOR A 1" AIR VAC/AIR
RELEASE VALVE AND 6" STEEL PIPE FOR A 2" VALVE.



AIR/VAC VALVE DETAIL
NTS

6

COMBINATION AIR/VAC VALVE DETAILS

NTS

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DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT. UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	

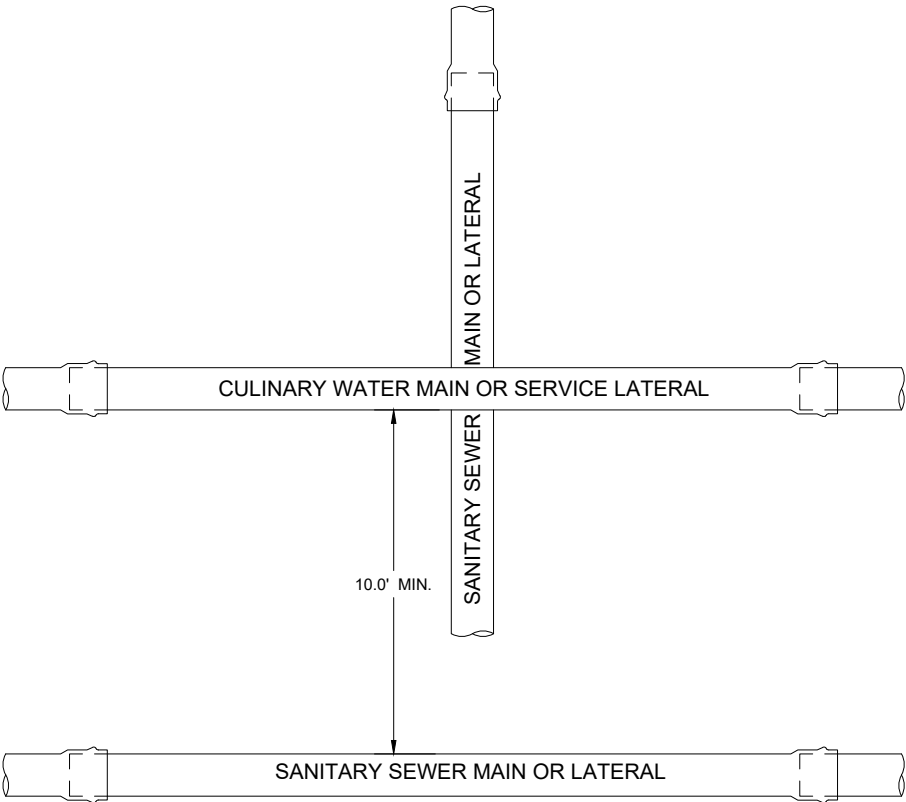


STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
COMBINATION AIR/VAC VALVE DETAIL
SHEET 4

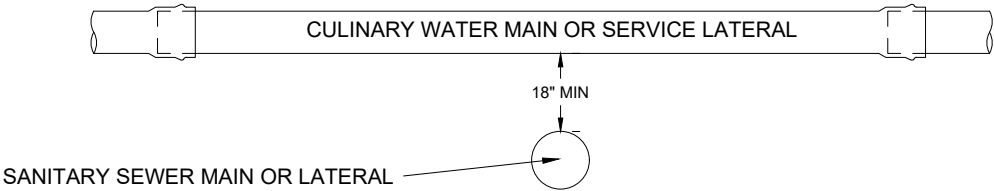


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NOTE:
 WATER MAINS AND SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH. WHERE LOCAL CONDITIONS MAKE IT IMPOSSIBLE TO INSTALL WATER OR SEWER LINES AT THE SEPARATION DISTANCES SHOWN HERE, AN EXCEPTION TO THE STANDARD MAY BE POSSIBLE. THE ENTITY SEEKING THE EXCEPTION SHALL INITIATE AND PURSUE A REQUEST FOR A SEPARATION EXCEPTION WITH THE STATE DIVISION OF DRINKING WATER, IN ACCORDANCE WITH R309-550-7 OF THE STATE OF UTAH ADMINISTRATIVE RULES.



PLAN VIEW



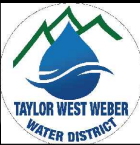
PROFILE VIEW

7

TYPICAL SEWER CROSSING DETAIL

NTS

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DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT. UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	



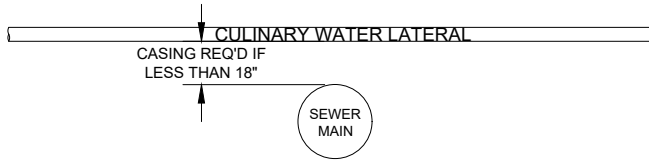
STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
TYPICAL SEWER CROSSING
SHEET 5



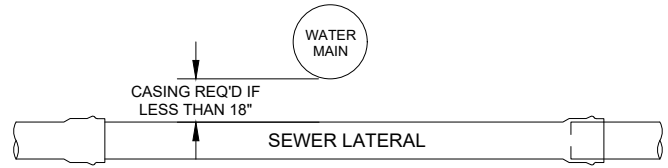
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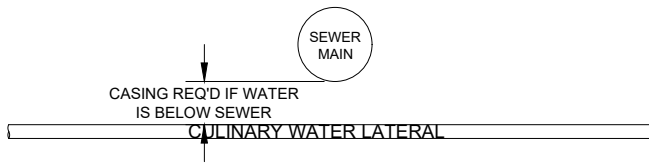
WATER LATERAL OVER SEWER MAIN



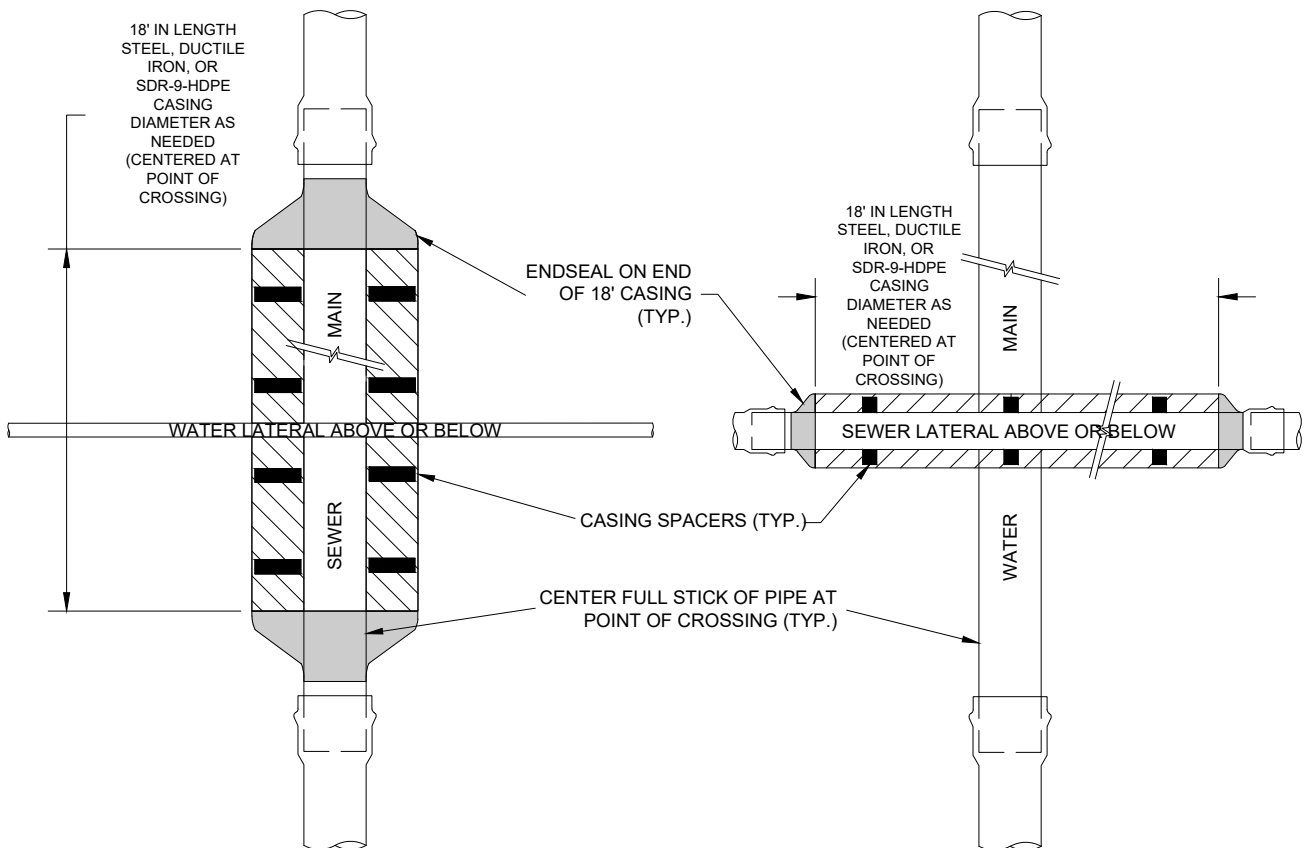
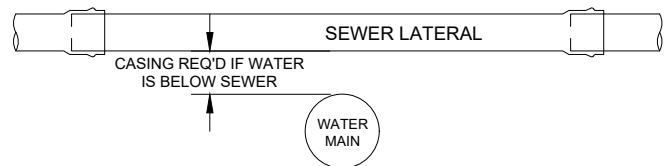
WATER MAIN OVER SEWER LATERAL



WATER LATERAL UNDER SEWER MAIN



WATER MAIN UNDER SEWER LATERAL



8

SEWER/WATER VERTICAL SEPARATION EXCEPTION DETAIL

NTS

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DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT, UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	



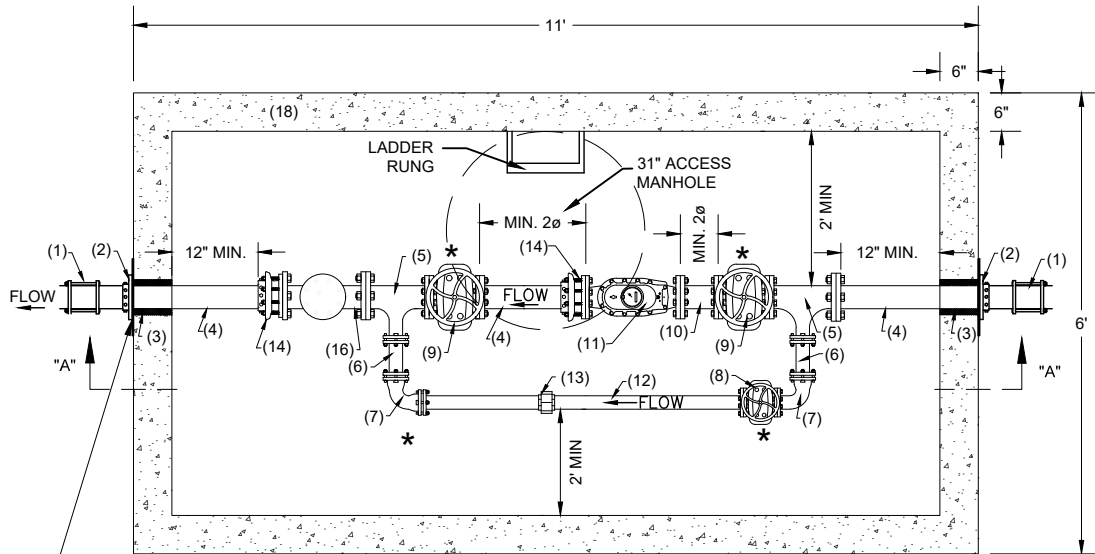
STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
SEWER/WATER CROSSING

SHEET 6



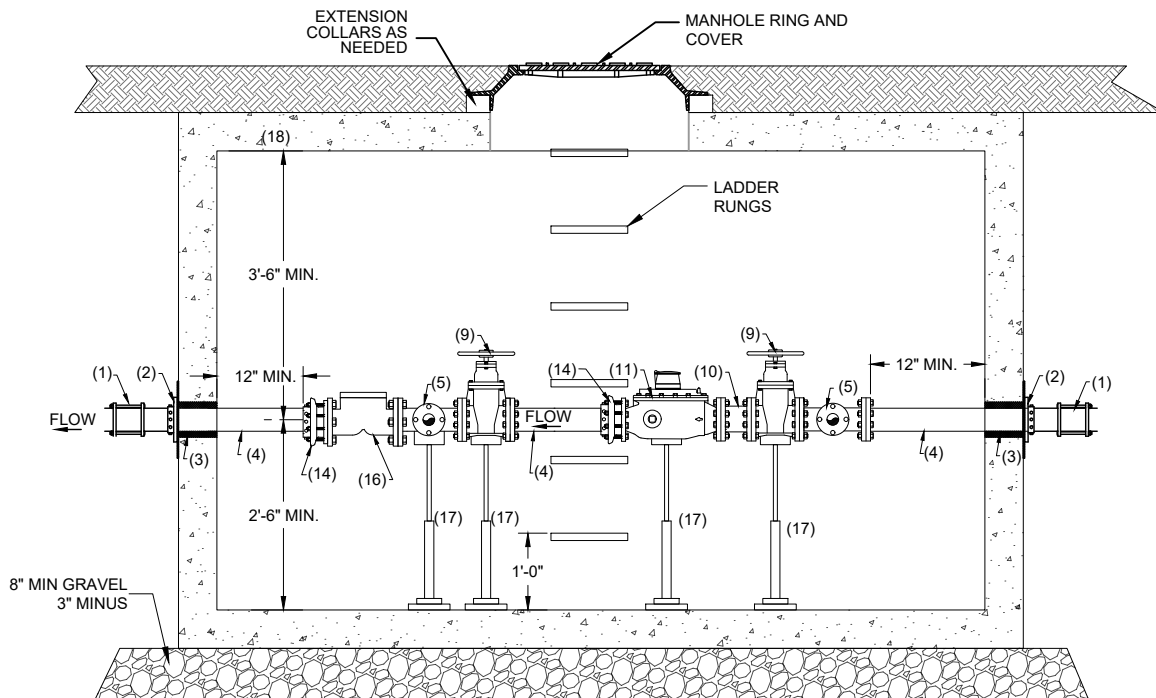
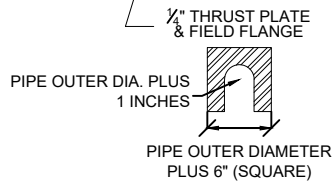
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PLAN VIEW

★ PIPE STAND LOCATIONS



SECTION A-A

12A

3" WATER METER DETAIL

SEE BILL OF MATERIALS ON NEXT SHEET

1"=2.5'

DRAFTED: RP	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT, UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	



STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
3" WATER METER DETAIL

SHEET 9A



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Bill of Materials - 3" Meter

#	Qty	Item	Note
1	2	3" COUPLING	
2	2	FIELD FLANGE AND 1/4" STEEL THRUST PLATE	
3	2	CORED HOLE AND GROUT PACK	
4	3	3" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
5	2	3" X 2" TEE	
6	2	2" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
7	2	2" 90° ELBOW	END CONNECTIONS AS NEEDED
8	1	2" GATE VALVE WITH HANDWHEEL	PROVIDE A STAINLESS STEEL CHAIN AND BRASS LOCK
9	2	3" GATE VALVE WITH HANDWHEEL	PROVIDE 1 ONLY STAINLESS STEEL CHAIN AND BRASS LOCK
10	1	3" PIPE FL X FL	6" LENGTH
11	1	3" ULTRASONIC OCTAVE MASTER METER	WITH REGISTER AND MOUNTED ANTENNA
12	1	2" PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
13	1	2" COUPLING	FITTING FOR EASE OF MAINTENANCE. ROMAC MACRO O.A.E
14	1	3" RESTRAINED FLANGE COUPLING ADAPTER	
15	1	INTENTIONALLY BLANK	
16	1	3" RESILIENT SEATED CHECK VALVE	AFC 2100 RESILIENT SEATED CHECK VALVE OR APPROVED EQUAL
17	4	ADJUSTABLE PIPE STAND	BOLT TO FLOOR WHEN ADJUSTMENTS COMPLETE, USE SS HARDWARE
18	1	CONCRETE UTILITY VAULT WITH RING AND COVER	PRECAST OR CAST IN PLACE VAULT WITH MIN INSIDE DIMENSIONS OF 5' X 10' X 6', H-20 LOADING, WATER TIGHT JOINTS

NOTES:

A STAINLESS STEEL CHAIN AND BRASS LOCK SHALL BE PROVIDED TO LOCK THE GATE VALVES IN POSITION.

ALL PIPE AND FITTINGS MUST BE EITHER DUCTILE IRON OR BRASS (FOR REFERENCE, PLUMBING AND VAULT ARE SHOWN TO SCALE USING DUCTILE IRON).

ALL CONNECTIONS WITHIN THE VAULT MUST BE RESTRAINED.

12B 3" WATER METER BOM

NTS

DRAFTED: RP	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT, UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	

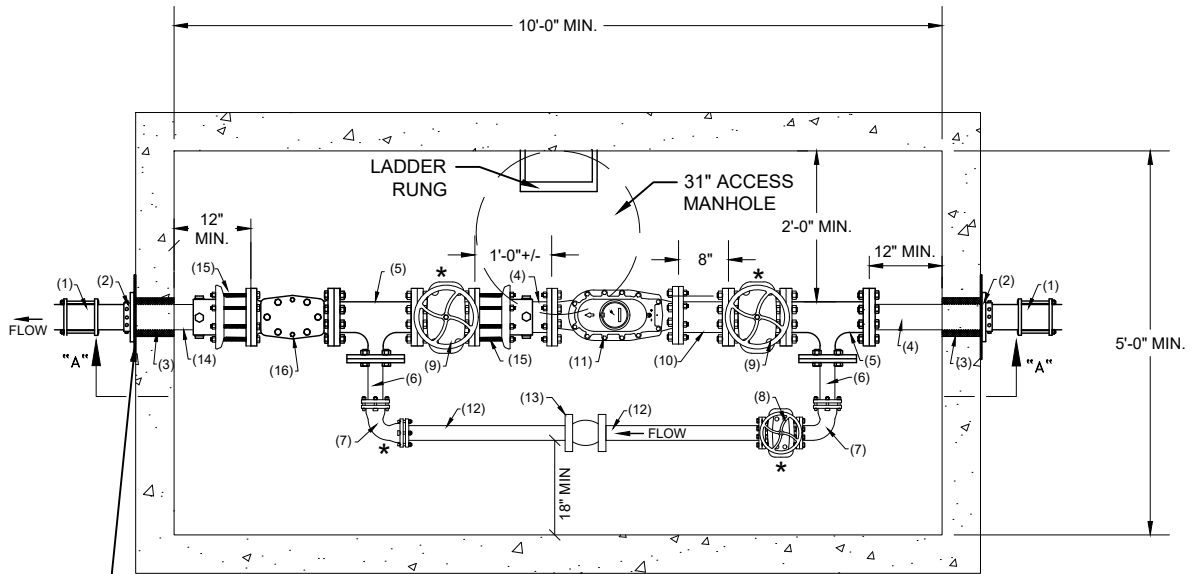


STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
3" WATER METER BOM

SHEET 9B



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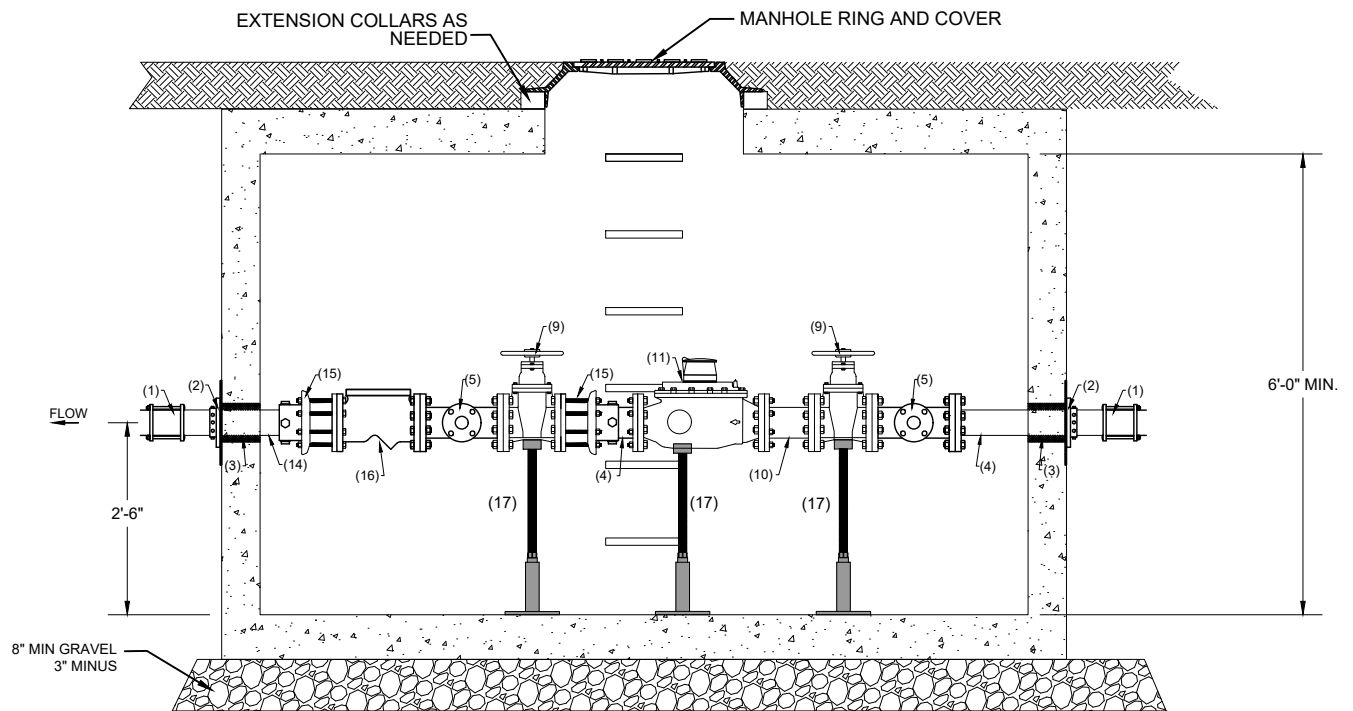
1/4" THRUST PLATE
& FIELD FLANGE

PIPE OUTER DIA.
PLUS 1 INCHES

PIPE OUTER DIAMETER
PLUS 6" (SQUARE)

PLAN VIEW

★ PIPE STAND LOCATIONS



SECTION A-A

13A

4" WATER METER DETAIL

SEE BILL OF MATERIALS ON NEXT SHEET

1" = 2.5'

DRAFTED: RP	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT, UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	



STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT

4" WATER METER DETAIL

SHEET 10A



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Bill of Materials - 4" Meter

#	Qty	Item	Note
1	2	4" COUPLING	
2	2	FIELD FLANGE AND 1/4" STEEL THRUST PLATE	
3	2	CORED HOLE AND GROUT PACK	
4	2	4" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
5	2	4" X 2" FL TEE	
6	2	2" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH, USE DIP
7	2	2" 90° ELBOW	END CONNECTIONS AS NEEDED
8	1	2" FL GATE VALVE WITH HANDWHEEL	
9	2	4" FL GATE VALVE WITH HANDWHEEL	
10	1	4" PIPE FL X FL	8" LENGTH
11	1	4" ULTRASONIC OCTAVE MASTER METER	WITH REGISTER AND MOUNTED ANTENNA
12	1	2" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH, USE DIP
13	1	2" COUPLING	FITTING FOR EASE OF MAINTENANCE. ROMAC MACRO O.A.E.
14	1	4" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
15	1	4" RESTRAINED FLANGED COUPLING ADAPTER	
16	1	4" RESILIENT SEATED CHECK VALVE	AFC 2100 RESILIENT SEATED CHECK VALVE OR APPROVED EQUAL
17	4	ADJUSTABLE PIPE STAND	BOLT TO FLOOR WHEN ADJUSTMENTS COMPLETE, USE SS HARDWARE
18	1	5' X 10' CONCRETE UTILITY VAULT WITH RING AND COVER	AMCOR PRECAST, H-20 LOADING, WATER TIGHT JOINTS

NOTES:

A STAINLESS STEEL CHAIN AND BRASS LOCK SHALL BE PROVIDED TO LOCK THE GATE VALVES IN POSITION.

ALL PIPE AND FITTINGS MUST BE EITHER DUCTILE IRON OR BRASS (FOR REFERENCE, PLUMBING AND VAULT ARE SHOWN TO SCALE USING DUCTILE IRON).

ALL CONNECTIONS WITHIN THE VAULT MUST BE RESTRAINED.

13B 4" WATER METER BOM

NTS

DRAFTED: RP	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT, UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	

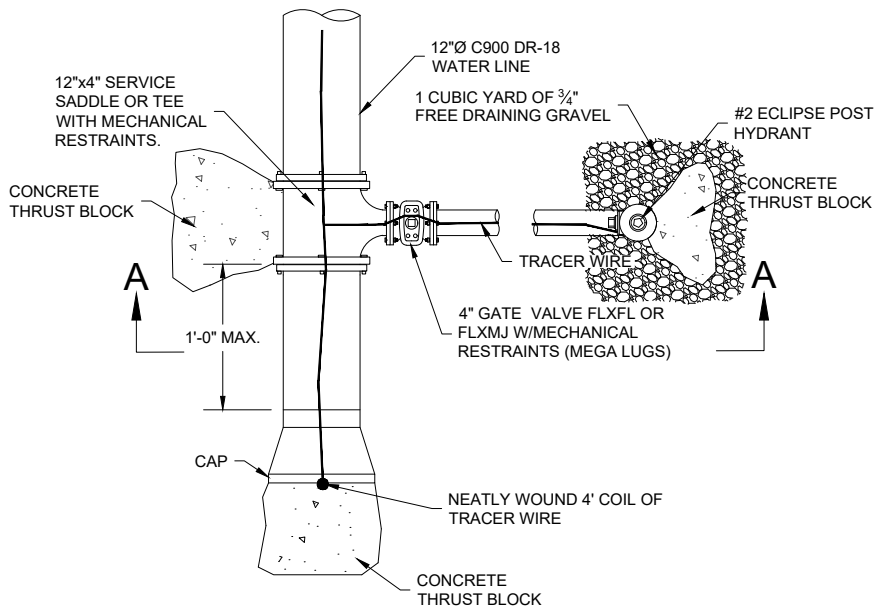
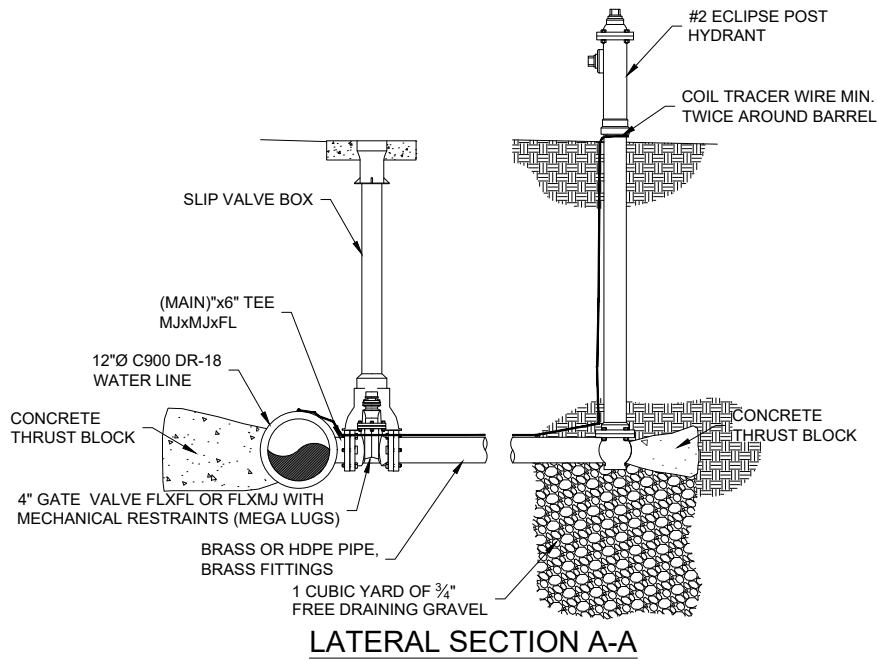


STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
4" WATER METER BOM

SHEET 10B



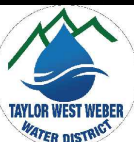
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14A POST HYDRANT DETAIL

NTS

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CHECKED: RR/MD	DISTRICT. UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	

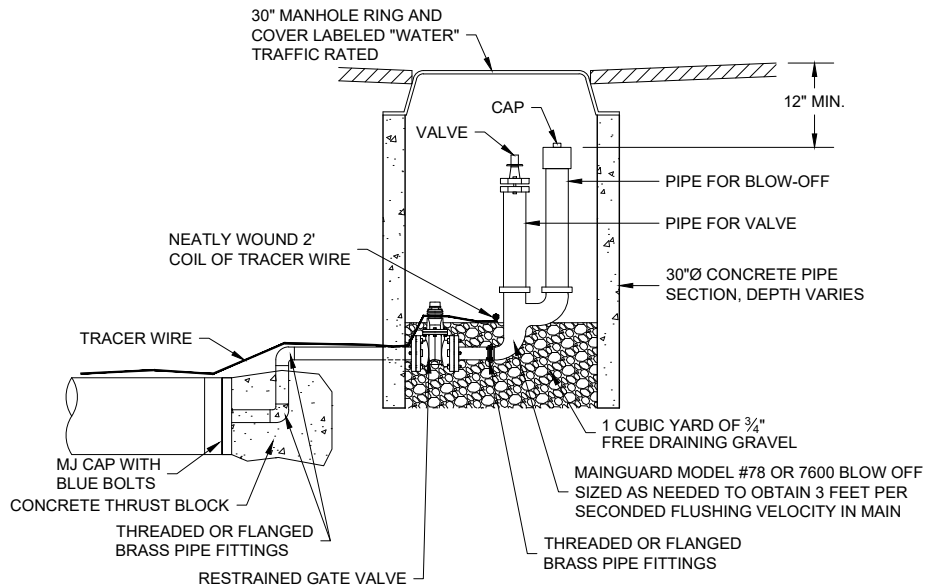


STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
BLOW OFF DETAIL

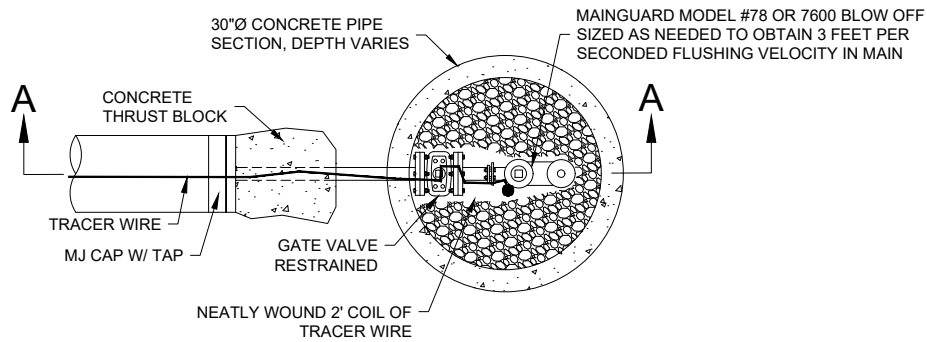
SHEET 11A



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END OF LINE SECTION A-A



END OF LINE PLAN VIEW

14B

BLOW OFF DETAIL

NTS

DRAFTED: RP	DEVIATIONS FROM STANDARDS MUST BE APPROVED
DESIGNED: RP/MD	BY TAYLOR WEST WEBER WATER IMPROVEMENT
CHECKED: RR/MD	DISTRICT. UTAH DDW APPROVAL 6/2020
REV 1:	
REV 2:	
REV 3:	
REV 4:	
REV 5:	



STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT
BLOW OFF DETAIL

SHEET 11B



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P 801.476.0202 F 801.476.0066

COVER (MIN.)

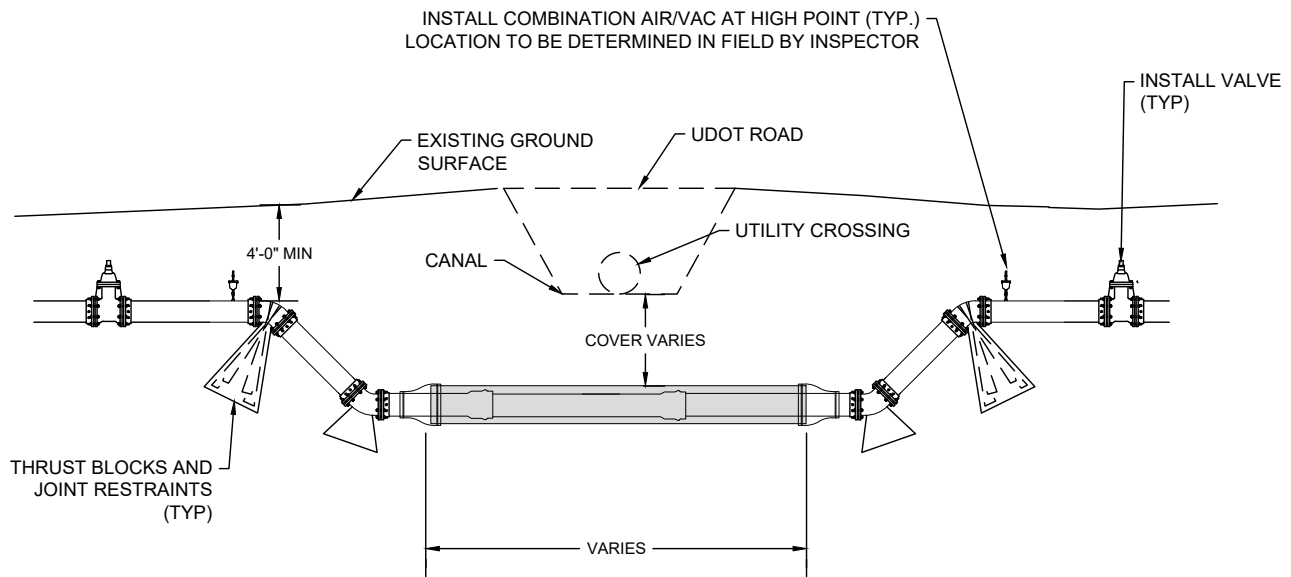
LAYTON CANAL	4'-0"
HOOPER CANAL	2'-0"
WILSON CANAL	2'-0"
SLOUGH	2'-0"
UDOT ROAD	SEE UDOT DWG DD16
ANY UTILITY CROSSING	1'-6"

PIPE SIZE

CASING SIZE*

8"	16"
10"	18"
12"	24"
14"	30"
16"-20"	30"

* CASING WALL THICKNESS, SEE SPECS SECTION 5.3.2.19



NOTE:

1. CASINGS REQUIRE CENTRALIZING SPACERS AND END SEALS W/ S.S. BAND CLAMPS SUBMITTED TO INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.
2. PVC PIPE REQUIRES JOINT RESTRAINTS EITHER SELF- RESTRAINING GASKETS OR MECHANICAL JOINT RESTRAINTS ON PIPE JOINTS INSIDE OF CASING AND ONE PIPE JOINT EACH SIDE OF CASING.
3. ISOLATION VALVE INSTALLATION IS REQUIRED ON EACH SIDE OF CASING.
4. COMBINATION AIR/VAC VALVE INSTALLATION IS REQUIRED ON EACH SIDE OF LOOPED CROSSINGS.
5. INSTALLATION OF A SAMPLING TAP OR OTHER ACCEPTABLE MEANS OF SAMPLING WILL BE REQUIRED TO ALLOW FOR REPRESENTATIVE WATER QUALITY TESTING ON THE UPSTREAM AND DOWNSTREAM SIDE OF THE CROSSING, IF THE DISTRICT INSPECTOR DETERMINES THAT ANOTHER MEANS OF SAMPLING DOES NOT EXIST NEAR THE GIVEN LOCATION.
6. CROSSINGS SHALL BE COMMISSIONED AS AN INTEGRAL PART OF THE SURROUNDING PIPE SYSTEM (FLUSH, DISINFECT, PRESSURE TEST).
7. SEE SPECS SEC 5.3.2.19-20, NON PERPENDICULAR UTILITY CROSSINGS LONGER THAN 20FT TO HAVE SEPARATION WILL REQUIRE A CASING, PERPENDICULAR UTILITY CROSSINGS THAT ONLY REQUIRE 10FT EACHWAY (20FT) TOTAL CAN BE SLEEVED

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CANAL/UDOT/UTILITY CROSSING DETAIL

DRAFTED: RP
DESIGNED: RP/MD
CHECKED: RR/MD

DEVIATIONS FROM STANDARDS MUST BE APPROVED
BY TAYLOR WEST WEBER WATER IMPROVEMENT
DISTRICT. UTAH DDW APPROVAL 6/2020



STANDARD WATER DETAILS
TAYLOR WEST WEBER
WATER IMPROVEMENT DISTRICT

CANAL/UDOT CROSSING DETAIL

SHEET 12



**GARDNER
ENGINEERING**
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