

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		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 300 P.S.I. INTERNAL STATIC PRESSURE AND 2000 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.

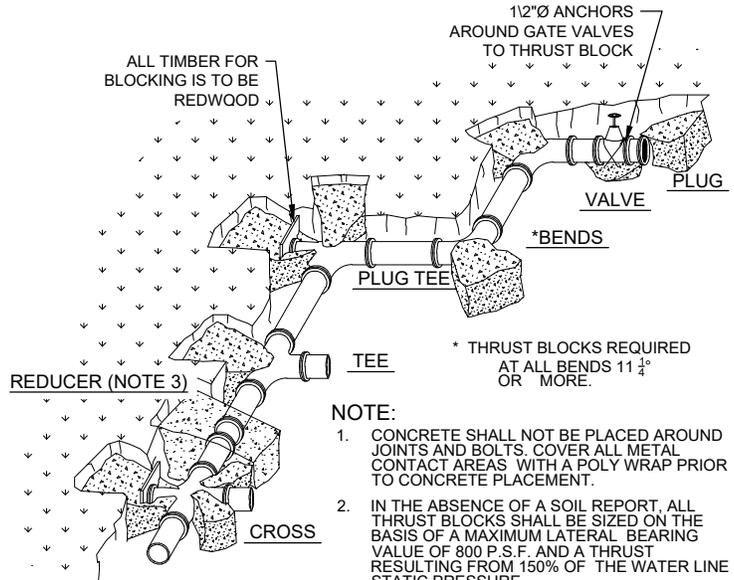
BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F".

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

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. PE SQ. FT.

$$F = 1.5 / 3 = 0.5 \text{ TABULATED VALUE} = 7.1 \text{ SQ. FT.}$$

$$0.5 \times 7.1 = 3.56 \sim 4 \text{ SQ. FT. (~OR 2FT. LONG BY 2FT. HIGH.)}$$



NOTE:

1. CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH A 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.
3. THRUST BLOCK AT REDUCER SHALL BE KEYED INTO UNDISTURBED TRENCH WALL AND BOTTOM, AND REINFORCED WITH #4 BARS 3" OFF SMALL SIDE FACE. KEY DEPTH = 12" FOR 4"-12" MINUS, AND 18" FOR > 12" MINUS

1 THRUST BLOCK DETAIL
APPLIES TO ALL PRESSURE PIPE

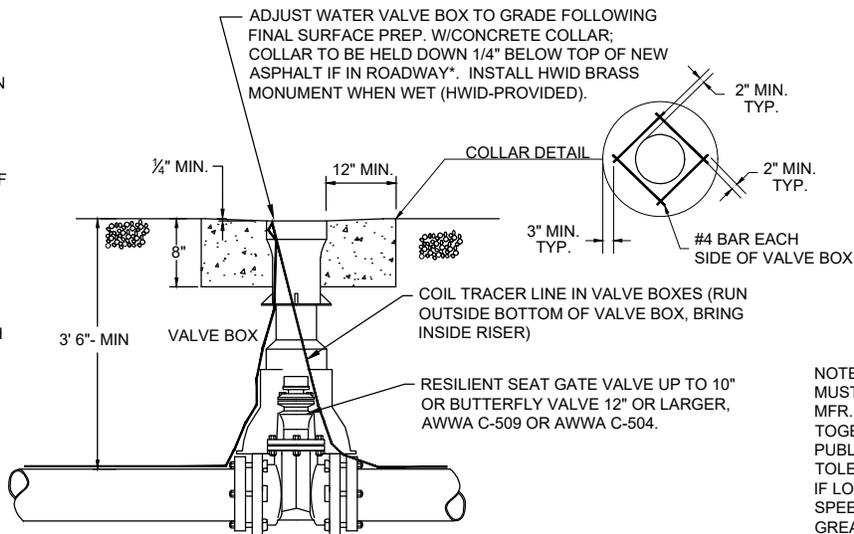
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VALVE LOCATION STANDARD:

AT TEES AND CROSSES, A VALVE SHALL BE INSTALLED IN EACH MAIN LINE, OUT OF THE INTERSECTION, AT THE EXTENSION OF PROPERTY LINES.

AN EXCEPTION TO THE NUMBER OF VALVES MAY BE MADE BY THE DISTRICT WHEN FOLLOWING THE STANDARD WILL PUT MAIN LINE VALVES WITHIN 250' OF EACH OTHER.

AN ISOLATION VALVE SHALL BE INSTALLED IN MAIN LINES ON EACH END OF AN EASEMENT THROUGH PRIVATE PROPERTY.



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

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CHECKED: KG	IMPROVEMENT DISTRICT.
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STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT

THRUST BLOCK
TYPICAL VALVE

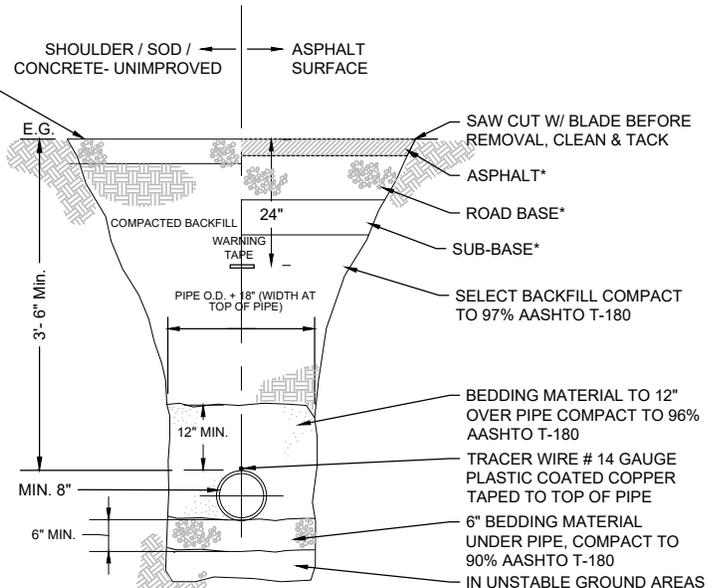
SHEET 1

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NOTE:
CONTRACTOR IS RESPONSIBLE TO MEET TRENCH RESTORATION STANDARDS OF THE ENTITY OWNING THE ROADWAY, RESTORE THE ROADWAY TO SAID STANDARDS AND SHALL BE SOLELY RESPONSIBLE FOR ALL ROADWAY PERMITS AND/OR FEES.

	HOOPER CITY	WEST HAVEN CITY	WEST POINT CITY
ASPHALT	4"	3"	4"
ROAD BASE	8"	8"	8"
SUB BASE	12"	12"	8"

*STANDARDS AS OF 3/2018

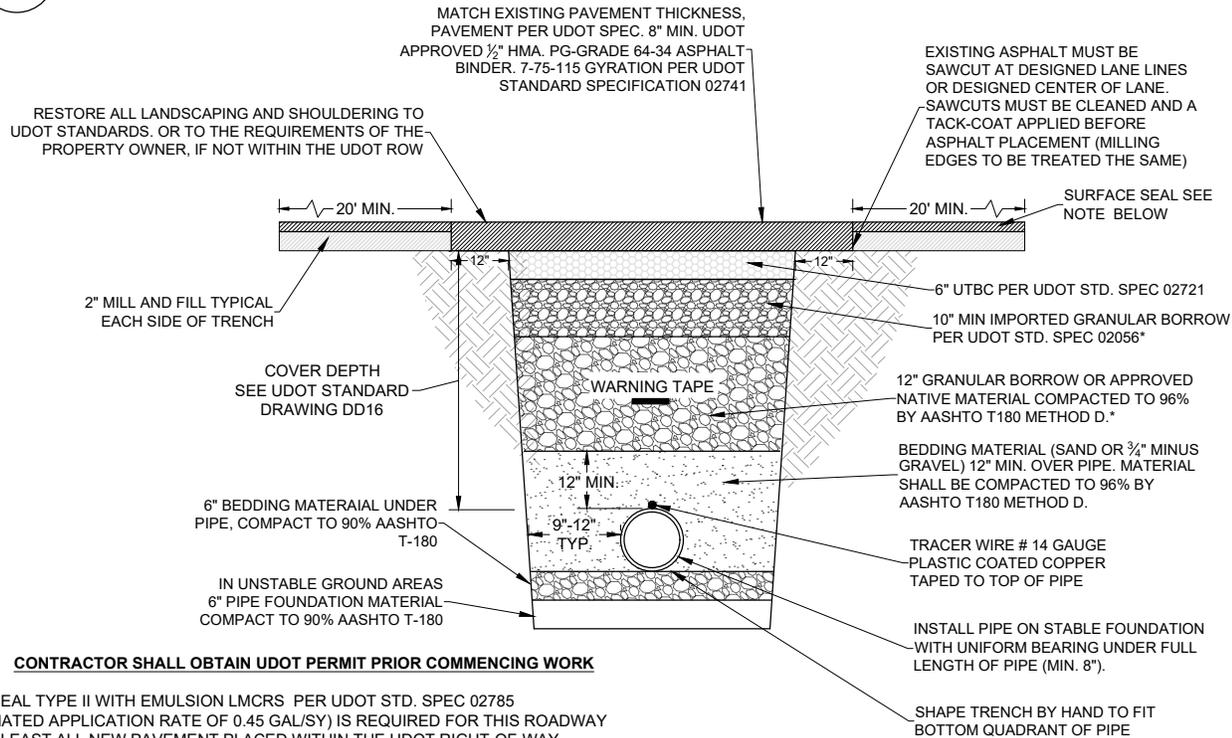


- NOTE:
- WATER & SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10 HORIZONTAL FEET FROM EACH OTHER.
 - WHERE A WATER MAIN AND A SEWER MAIN MUST CROSS, THE WATER MAIN SHALL BE AT LEAST 18" ABOVE THE SEWER MAIN.
 - SEPARATION DISTANCES ARE TO BE MEASURED EDGE-TO-EDGE.
 - WATER MAINS SHALL NOT BE INSTALLED IN THE SAME TRENCH WITH EITHER SEWER OR SECONDARY PIPES.
 - ALL NON-ROW WATERLINES INTENDED FOR PERPETUAL TRANSMISSION LINE W/O SERVICE TAPS SHALL BE MIN. 4" SDR9 HDPE. CONSULT DISTRICT.
 - IF THESE STANDARDS CANNOT BE MET, CONTACT THE DISTRICT INSPECTOR, WHO MAY THEN CONTACT THE DISTRICT ENGINEER.

3A

TYPICAL TRENCH SECTION

NTS



NOTE: **CONTRACTOR SHALL OBTAIN UDOT PERMIT PRIOR COMMENCING WORK**

CHIP SEAL TYPE II WITH EMULSION LMCRS PER UDOT STD. SPEC 02785 (ESTIMATED APPLICATION RATE OF 0.45 GAL/SY) IS REQUIRED FOR THIS ROADWAY ON AT LEAST ALL NEW PAVEMENT PLACED WITHIN THE UDOT RIGHT-OF-WAY.

ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD DRAWING AND SPECIFICATIONS, FOUND AT UDOT.UTAH.GOV/GO/2017 STANDARDS.

* FLOWABLE FILL MAY BE REQUIRED BY UDOT PERMIT.

3B

UDOT CROSSING TRENCH DETAIL

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STANDARD WATER DETAILS
HOOPER WATER IMPROVEMENT DISTRICT
TYPICAL TRENCH SECTION
UDOT CROSSING TRENCH DETAIL

SHEET 2

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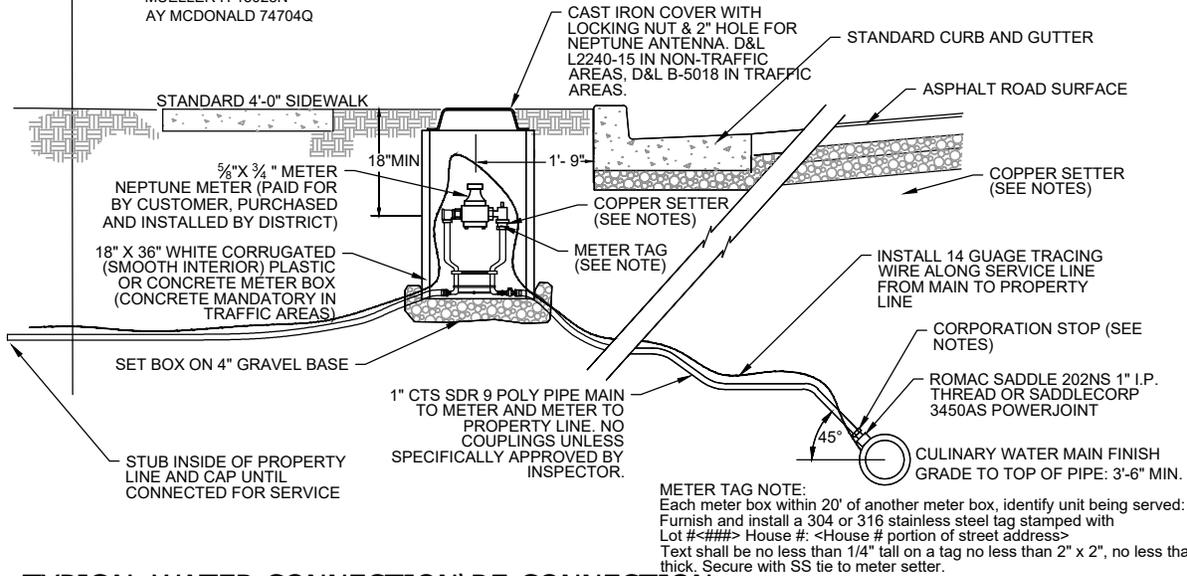
NOTES:

ACCEPTABLE COPPER SETTERS
 FORD VHC 72-18W-44-44QNL
 MUELLER H-14701N-2A
 AY MCDONALD 721-218WDQQ44

ALL COMPRESSION FITTINGS:
 SHALL HAVE STAINLESS STEEL INSERTS
 FORD 52, MUELLER 504385, AY MCDONALD 6133T

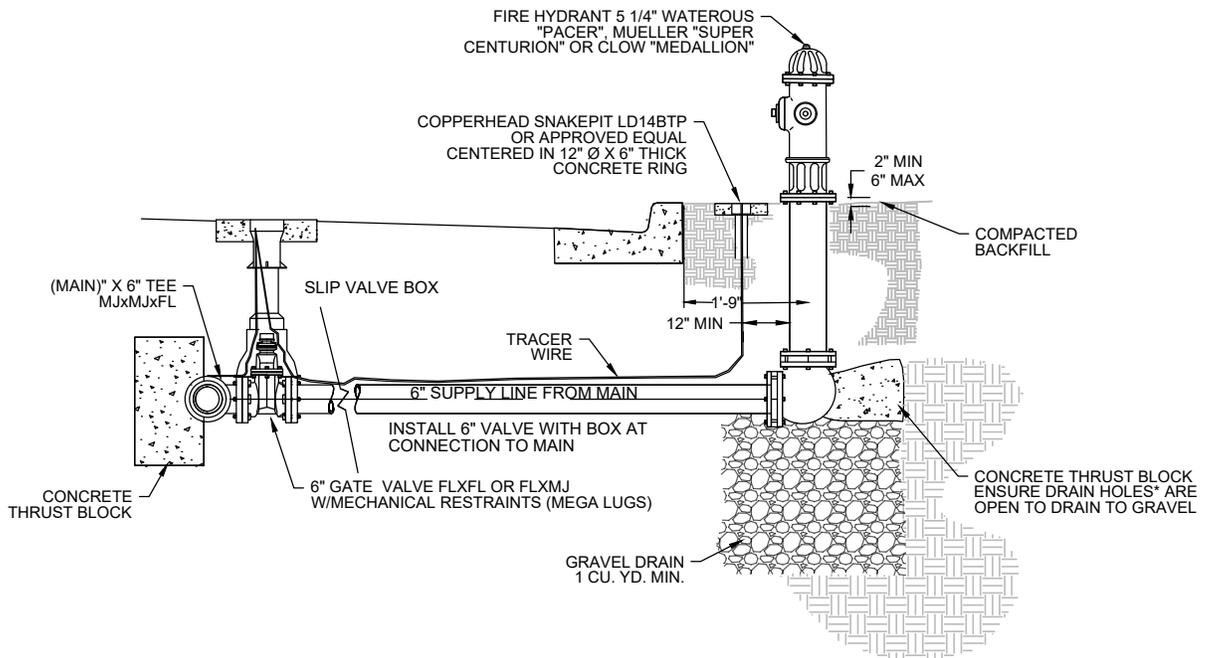
AREA SUSCEPTIBLE TO VEHICULAR TRAFFIC:
 INSTALL A FLAT METER BOX LID, D+L B-5018.
 COLLAR METER BOX WITH A 4' X 4' 3,500 PSI
 CONCRETE COLLAR WITH A 4" MIN.
 THICKNESS OR GREATER TO SATISFY
 AUTHORITY HAVING JURISDICTION, ON A 6"
 LAYER OF COMPACTED ROADBASE.

ACCEPTABLE CORPORATION STOPS
 FORD F1100-4-Q-NL
 MUELLER H-15028N
 AY MCDONALD 74704Q



4 TYPICAL WATER CONNECTION\RE-CONNECTION

NTS



*NOTE: HYDRANT DRAINS SHALL NOT BE CONNECTED TO, OR LOCATED WITHIN, 10 FEET OF SANITARY SEWERS. WHERE POSSIBLE, HYDRANT DRAINS SHALL NOT BE LOCATED WITHIN 10 FEET OF STORM DRAINS.

5 FIRE HYDRANT DETAIL

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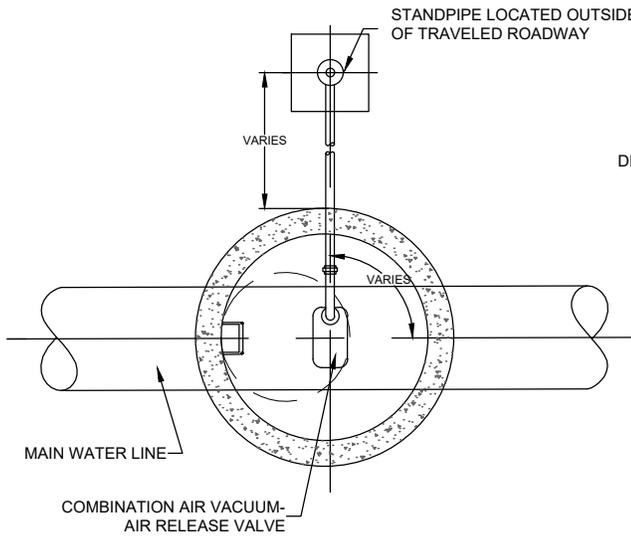
STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT

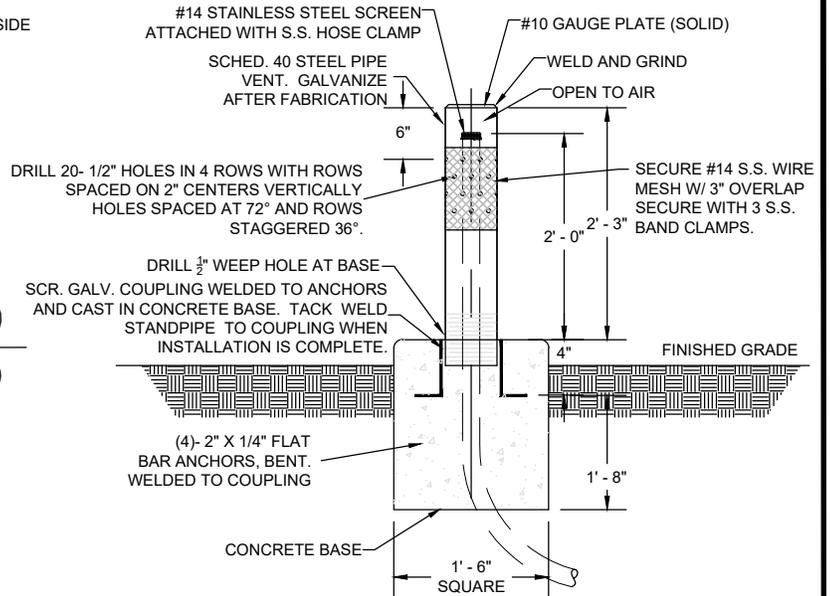
TYPICAL WATER CONNECTION DETAIL
 FIRE HYDRANT DETAIL

SHEET 3

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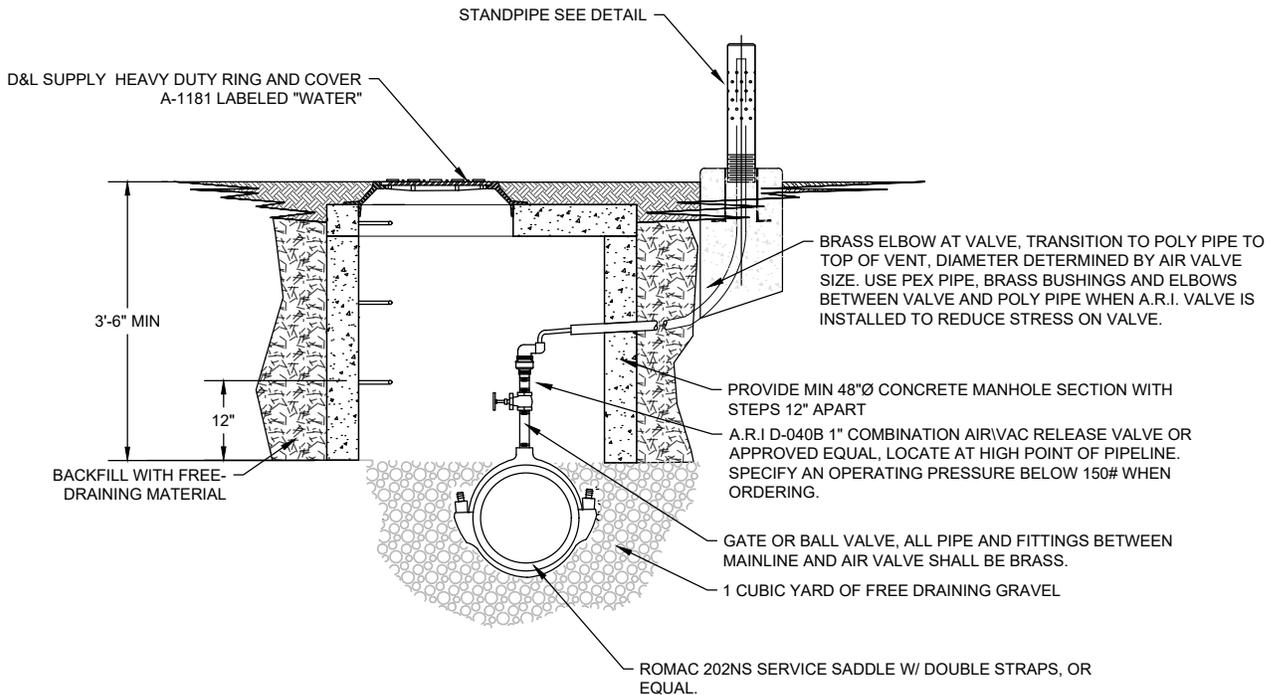


AIR VALVE PLAN VIEW
NTS



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
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6

COMBINATION AIR/VAC VALVE DETAILS

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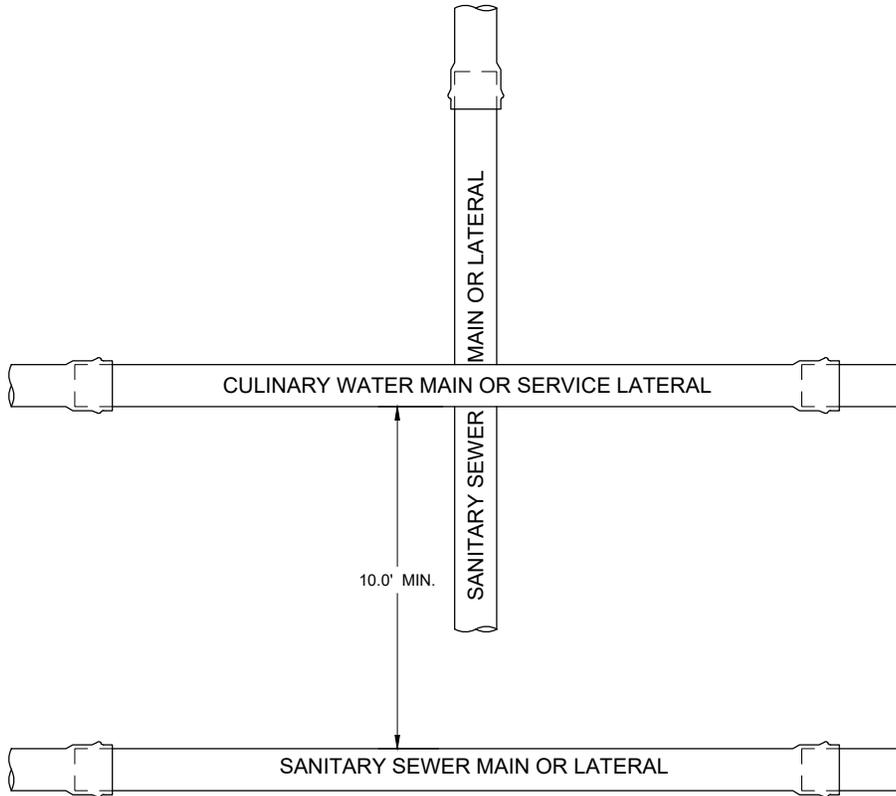


STANDARD WATER DETAILS
HOOPER WATER IMPROVEMENT DISTRICT
COMBINATION AIR/VAC VALVE DETAIL

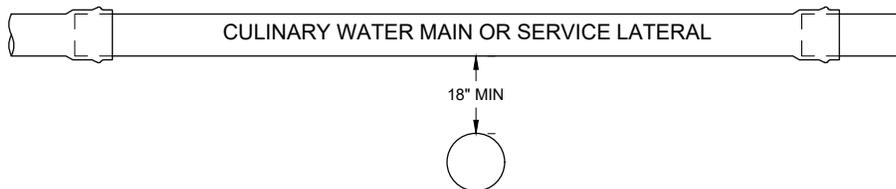
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NOTE:
 WATER MAINS AND SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH. WHERE LOCAL CONDITIONS MAKE IT IMPOSSIBLE TO INSTALL WATER OR SEWER LINES AT THE SEPARATION DISTANCES REQUIRED ABOVE, AN EXCEPTION TO THE STANDARD MAY BE POSSIBLE. THE ENTITY 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

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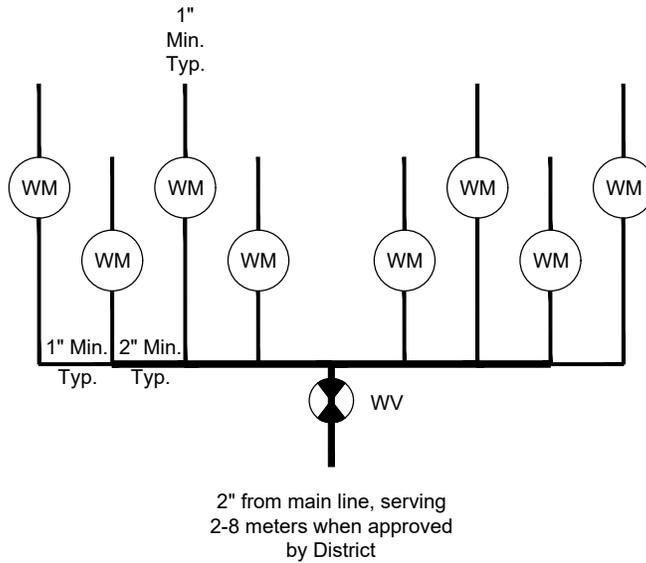
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STANDARD WATER DETAILS
 HOOPER WATER IMPROVEMENT DISTRICT
 TYPICAL SEWER CROSSING

SHEET 5

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SPECIFICATIONS FOR MULTIPLE METER MANIFOLDS:

1. All piping shall be SDR 9 CTS HDPE or brass.
2. Maintain right angles in piping through use of brass tees, crosses or 90s
3. 2" pipe when more than 1 meter is served, single service size beyond meter determined by home builder.
4. Stagger meter boxes as needed to enable proper compaction
5. Keep meter boxes near roadway
6. No meter boxes in roads or driveways.
7. Mark and wire a waterproof tag to each meter to identify which lot/unit is served by each meter.
8. 2" curb valve and valve box with concrete collar required. Locate in non-traffic area.
9. See also Detail 4 on Sheet 3.

8

MULTIPLE METER MANIFOLD

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STANDARD WATER DETAILS	
HOOPER WATER IMPROVEMENT DISTRICT	
SKEWED SEWER CROSSING	SHEET 6

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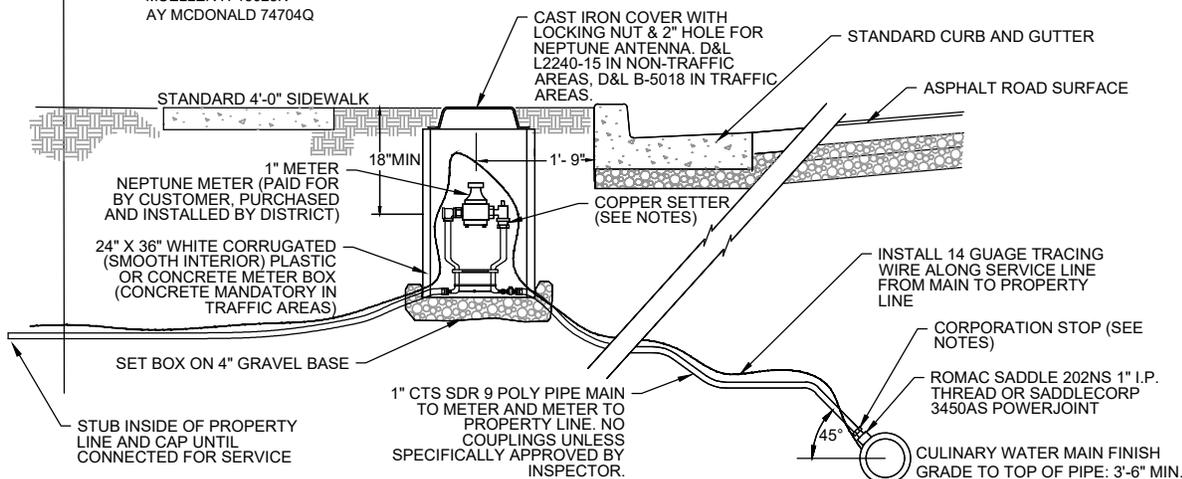
NOTES:

ACCEPTABLE COPPER SETTERS
 FORD VHC 74-18W-44-44QNL
 MUELLER H-1470N-2A
 AY MCDONALD 721-418WDQQ44

ALL COMPRESSION FITTINGS:
 SHALL HAVE STAINLESS STEEL INSERTS
 FORD 52 , MUELLER 504385, AY MCDONALD 61337

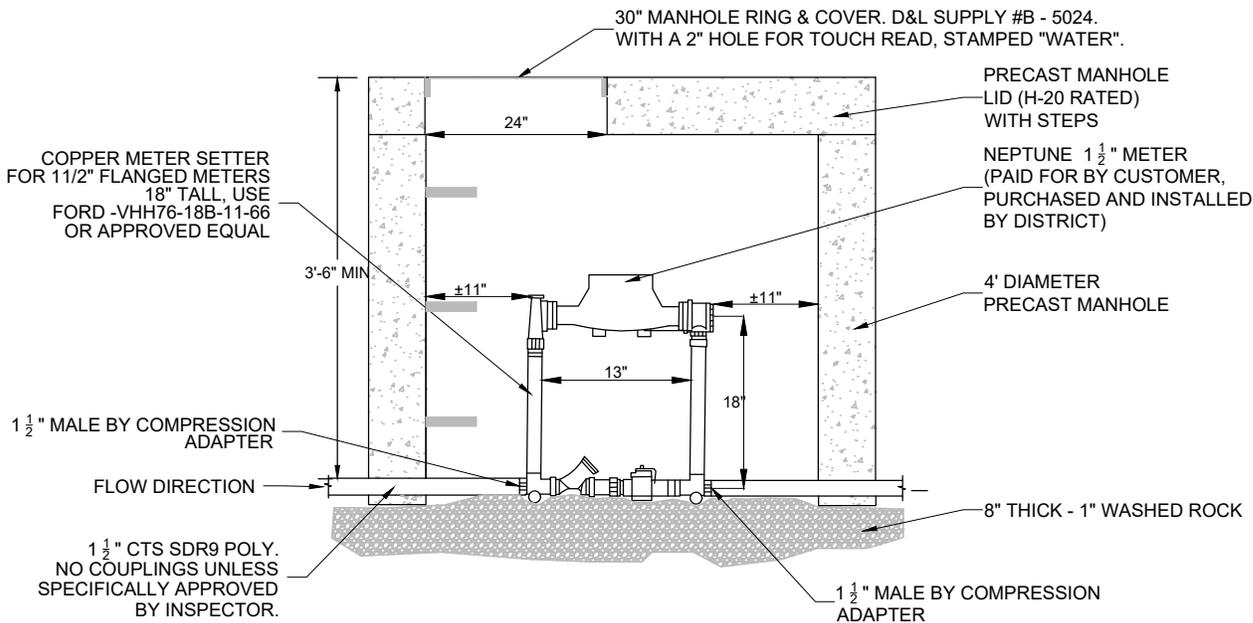
AREA SUSCEPTIBLE TO VEHICULAR TRAFFIC:
 INSTALL A FLAT METER BOX LID, D+L B-5024.
 COLLAR METER BOX WITH A 4' X 4' 3,500 PSI
 CONCRETE COLLAR WITH A 4" MIN.
 THICKNESS OR GREATER TO SATISFY
 AUTHORITY HAVING JURISDICTION, ON A 6"
 LAYER OF COMPACTED ROADBASE.

ACCEPTABLE CORPORATION STOPS
 FORD F1100-4-Q-NL
 MUELLER H-15028N
 AY MCDONALD 74704Q



9 1" WATER METER DETAIL

NTS



NOTES:

- SERVICE LINE COVER UNDER CURB AND GUTTER MUST BE ADJUSTED BETWEEN THE LIMITS OF 36" AND 48". COVER OF SERVICE LINE IN THE STREET MUST NOT BE GREATER THAN 48"
- DISTRICT MANAGER OR FOREMAN MUST APPROVE LOCATION OF METER BOX IF DISTANCE FROM TOP BACK CURB & GUTTER EXCEEDS 1' -0".
- METER SETTER, CONSISTS OF 2 DUAL CHECK VALVES, 2 LOCKING KEY VALVES, FITTINGS & SPOOLS, COMPLETE.
- ALL PIPING, VAULT, & MISCELLANEOUS ITEMS SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR, COMPLETE. COST OF METER SHALL BE BORNE BY SERVICED CUSTOMER.
- ANY CHANGES MUST BE APPROVED BY DISTRICT MANAGER OR INSPECTOR.
- IF SERVICE LINE IS NOT 1 1/2" CTS POLY THEN INSTALLER WILL HAVE TO INSTALL TRANSITION FITTINGS.

10 1 1/2" WATER METER DETAIL

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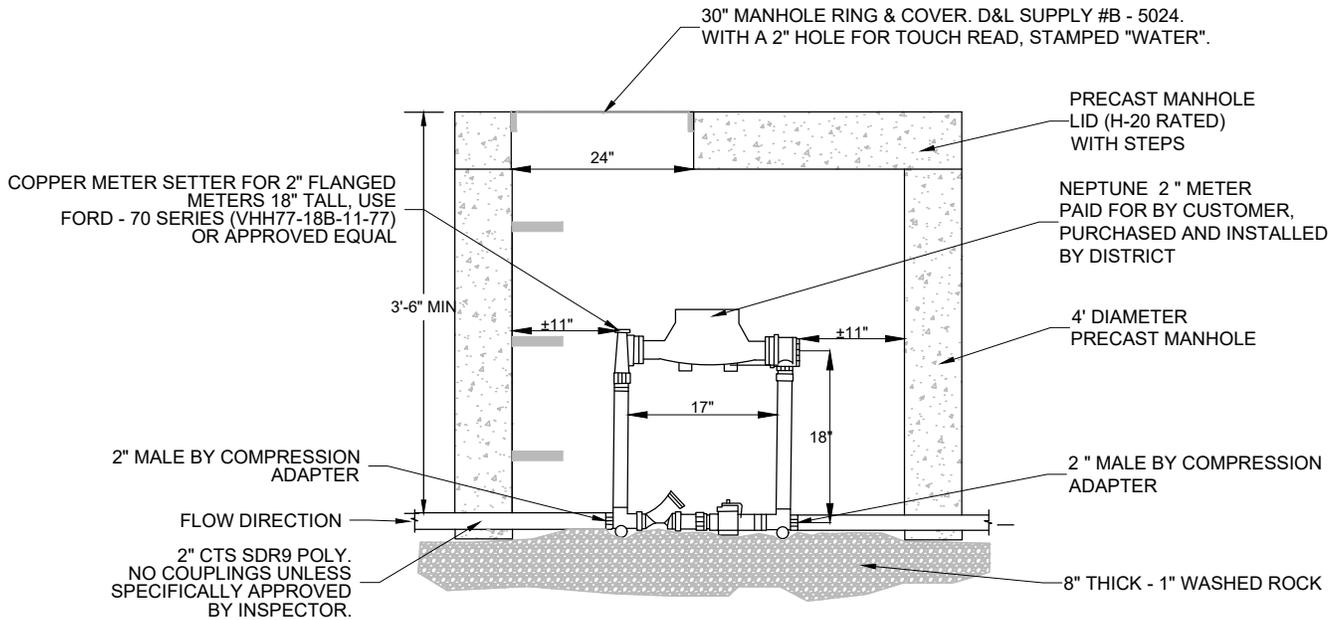


STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT

1" METER DETAIL 1 1/2" METER DETAIL	SHEET 7
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NOTES

- SERVICE LINE COVER UNDER CURB AND GUTTER MUST BE ADJUSTED BETWEEN THE LIMITS OF 36" AND 48". COVER OF SERVICE LINE IN THE STREET MUST NOT BE GREATER THAN 48"
- DISTRICT MANAGER OR FOREMAN MUST APPROVE LOCATION OF METER BOX IF DISTANCE FROM TOP BACK CURB & GUTTER EXCEEDS 1' - 0".
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- ANY CHANGES MUST BE APPROVED BY DISTRICT MANAGER OR INSPECTOR.
- IF SERVICE LINE IS NOT 2" CTS POLY THEN INSTALLER WILL HAVE TO INSTALL TRANSITION FITTINGS.

11 2" METER DETAIL

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STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT

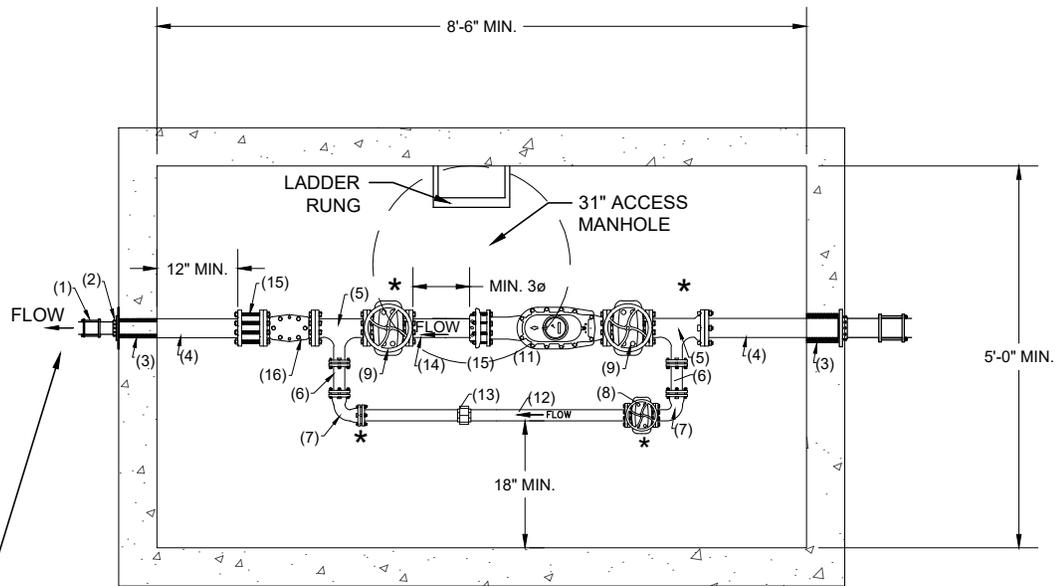
2" METER DETAIL

SHEET 8

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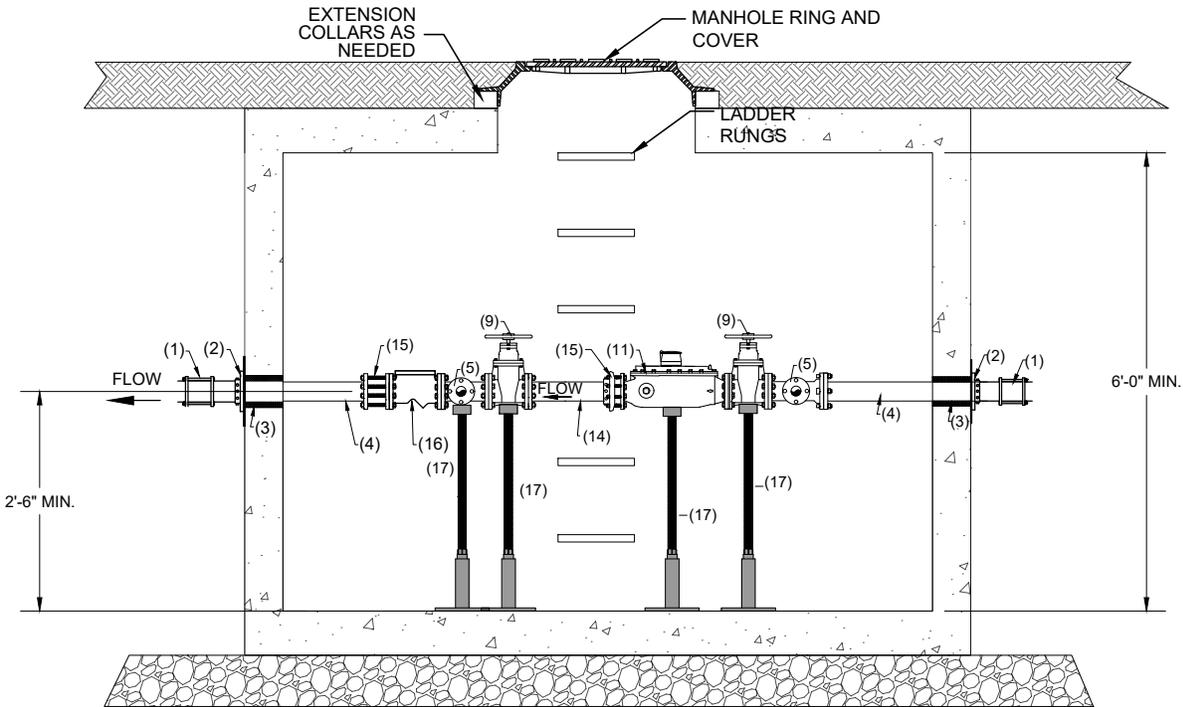
PLAN VIEW

* PIPE STAND LOCATIONS

1/4" THRUST PLATE & FIELD FLANGE



PIPE OUTER DIA. PLUS 1 INCHES
PIPE OUTER DIAMETER PLUS 6" (SQUARE)



SECTION A-A

12A

3" WATER METER DETAIL

1"=2.5'

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STANDARD WATER DETAILS
HOOPER 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	2	3" 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
		INTENTIONALLY BLANK	
11	1	3" ULTRASONIC METER	PROVIDE WITH REGISTER AND ANTENNA, ETC. (PAID FOR BY CUSTOMER, PURCHASED AND INSTALLED BY DISTRICT)
12	1	2" PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
13	1	2" UNION COUPLING	FITTING TO PROVIDE EASE OF MAINTENANCE ROMAC MACRO O.A.E.
14	1	3" PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
15	2	3" RESTRAINED FLANGE COUPLING ADAPTER	
16	1	3" CHECK VALVE	RESILIENT SEATED CHECK VALVE, AFC SERIES 2100 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

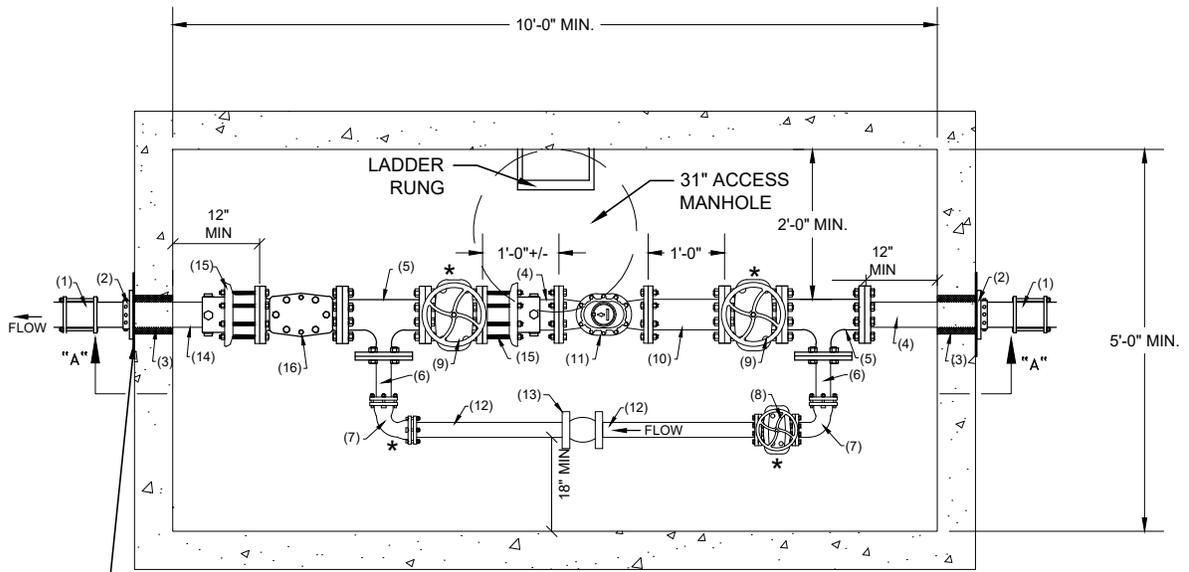
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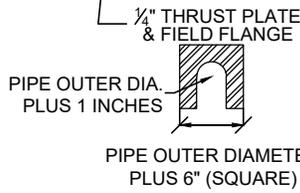
STANDARD WATER DETAILS	
HOOPER WATER IMPROVEMENT DISTRICT	
3" WATER METER BOM	SHEET 9B



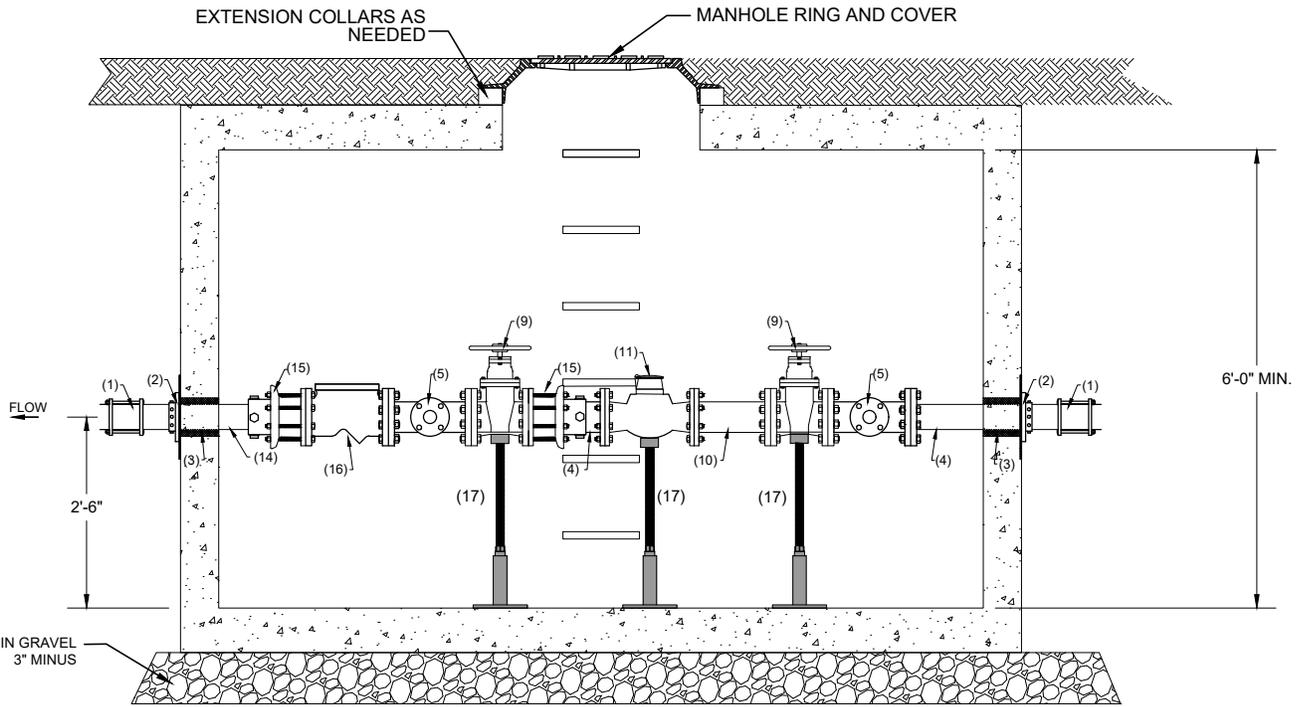


PLAN VIEW

* PIPE STAND LOCATIONS



PIPE OUTER DIAMETER PLUS 6" (SQUARE)



SECTION A-A

13A

4" WATER METER DETAIL

1" = 2.5'

DRAFTED: MDD	DEVIATIONS FROM STANDARDS MUST BE
DESIGNED: DW	APPROVED BY HOOPER WATER
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DATE: 01/2024	
REV	
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STANDARD WATER DETAILS
 HOOPER 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
7	2	2" 90° ELBOW	END CONNECTIONS AS NEEDED
8	1	2" FL GATE VALVE WITH HANDWHEEL	PROVIDE A STAINLESS STEEL CHAIN AND BRASS LOCK
9	2	4" FL GATE VALVE WITH HANDWHEEL	PROVIDE 1 ONLY STAINLESS STEEL CHAIN AND BRASS LOCK
10	1	4" FL X FL PIPE	
11	1	4" ULTRASONIC METER	WITH RADIO READ, ANTENNA MOUNTED IN VAULT (PAID FOR BY CUSTOMER, PURCHASED AND INSTALLED BY DISTRICT)
12	1	2" FL X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
13	1	2" COUPLING	ROMAC MACRO HP OR APPROVED EQUAL
14	1	4" PE X PE PIPE	FIELD MEASURE AND CUT TO FINAL LENGTH
15	1	4" RESTRAINED FLANGE COUPLING ADAPTER	
16	1	4" CHECK VALVE	RESILIENT SEATED CHECK VALVE, AFC SERIES 2100 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

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REV	
REV	



STANDARD WATER DETAILS

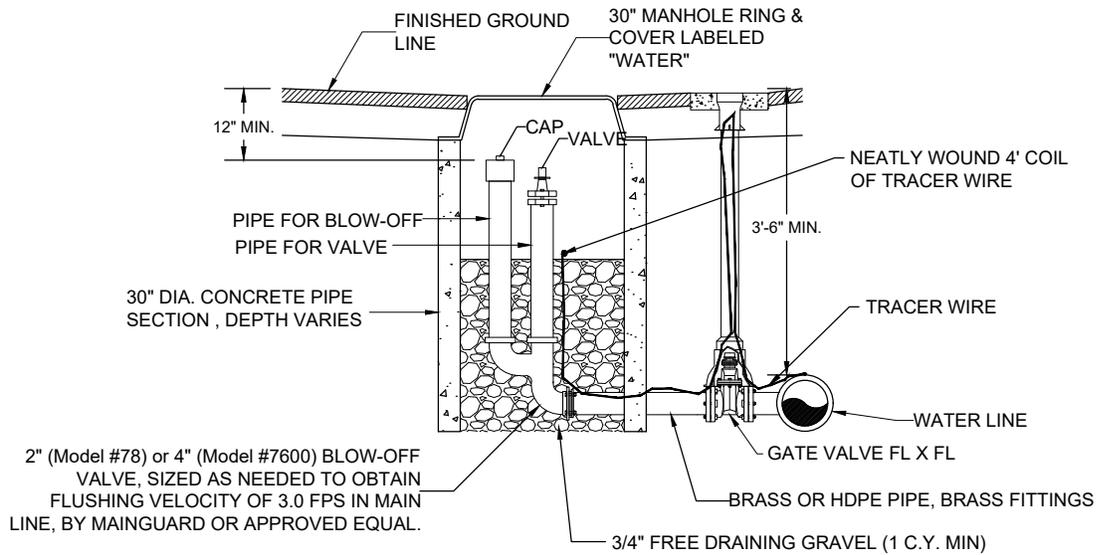
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4" WATER METER BOM

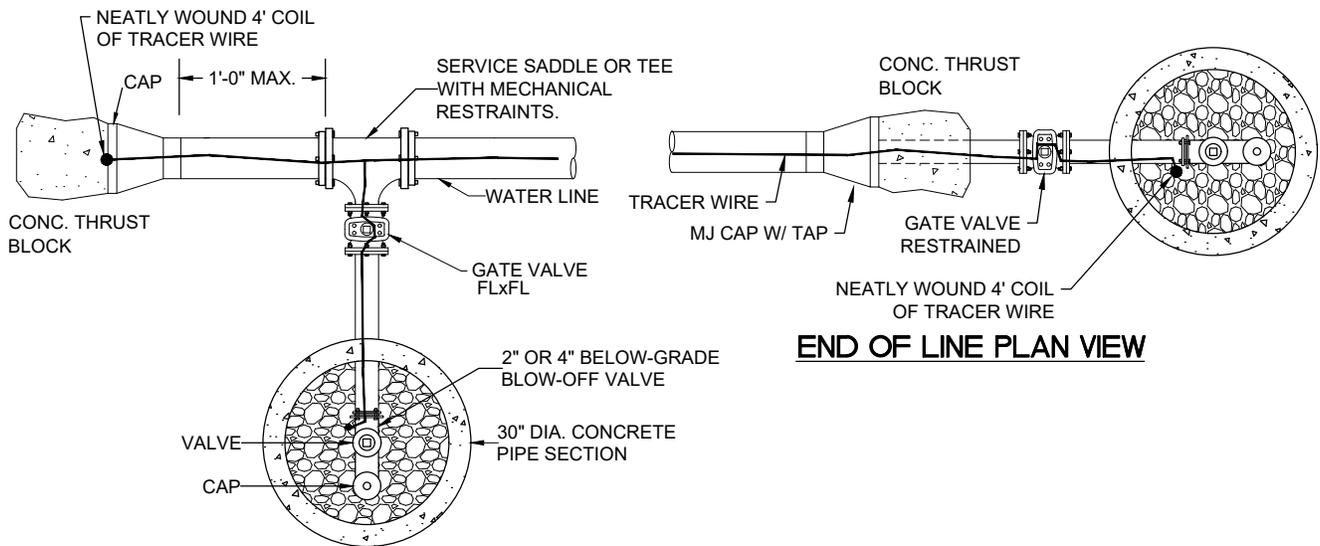
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SIDE VIEW



TEE'D PLAN VIEW

NOTE: BLOW OFF SHALL BE INSTALLED OUTSIDE OF ROAD WAY

14

BLOW OFF DETAIL

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STANDARD WATER DETAILS

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BLOW OFF DETAIL

SHEET 11

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COVER (MIN.)

LAYTON CANAL	4'-0"
HOOPER CANAL	2'-0"
WILSON CANAL	2'-0"
SLOUGH	2'-0"
UDOT ROAD	SEE TABLE 1

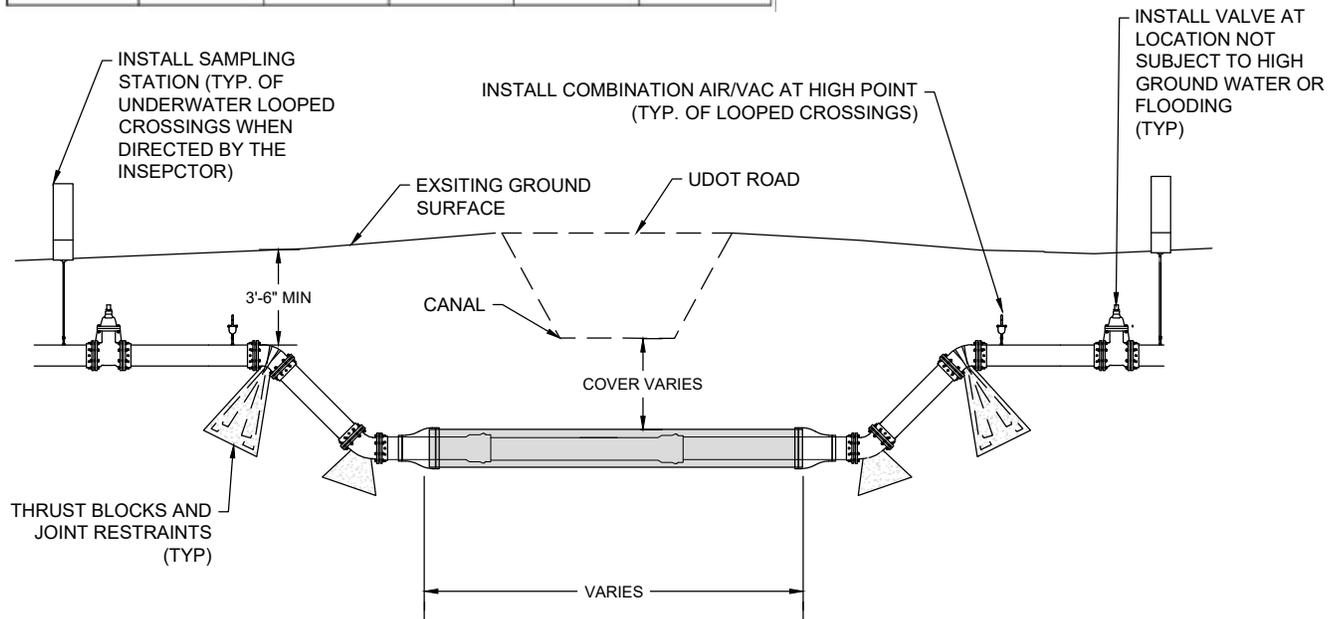
PIPE SIZE

CASING SIZE*

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

* CASING WALL THICKNESS (0.375") MIN.
 * -METHOD OF INSTALLATION MAY REQUIRE THICKER WALL

TABLE 1 MINIMUM DEPTH OF BURY TO TOP OF UTILITY (LONGITUDINAL AND CROSSING INSTALLATIONS)					
LOCATION	UNDER PAVEMENT	UNDER SIDEWALK	UNDER DITCH (NOTE 5)	LOCATION < 20 FT FROM EDGE OF PAVEMENT	LOCATION > 20 FT FROM EDGE OF PAVEMENT
DEPTH	4 FT BELOW TOP OF PAVEMENT	3 FT BELOW TOP OF SIDEWALK	3 FT BELOW FLOW LINE	5 FT BELOW NATURAL GRADE	3 FT BELOW NATURAL GRADE



NOTE:

- CASINGS REQUIRE CENTRALIZING SPACERS AND END SEALS W/ S.S. BAND CLAMPS SUBMITTED TO INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.
- PVC PIPE REQUIRES SELF- RESTRAINING GASKETS ON PIPE JOINTS INSIDE OF CASING AND ONE PIPE JOINT EACH SIDE OF CASING.
- ISOLATION VALVE INSTALLATION IS REQUIRED ON EACH SIDE OF CASING.
- COMBINATION AIR/VAC VALVE INSTALLATION IS REQUIRED ON EACH SIDE OF LOOPED CROSSINGS.
- 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.
- CROSSINGS SHALL BE COMMISSIONED AS AN INTEGRAL PART OF THE SURROUNDING PIPE SYSTEM (FLUSH, DISINFECT, PRESSURE TEST).

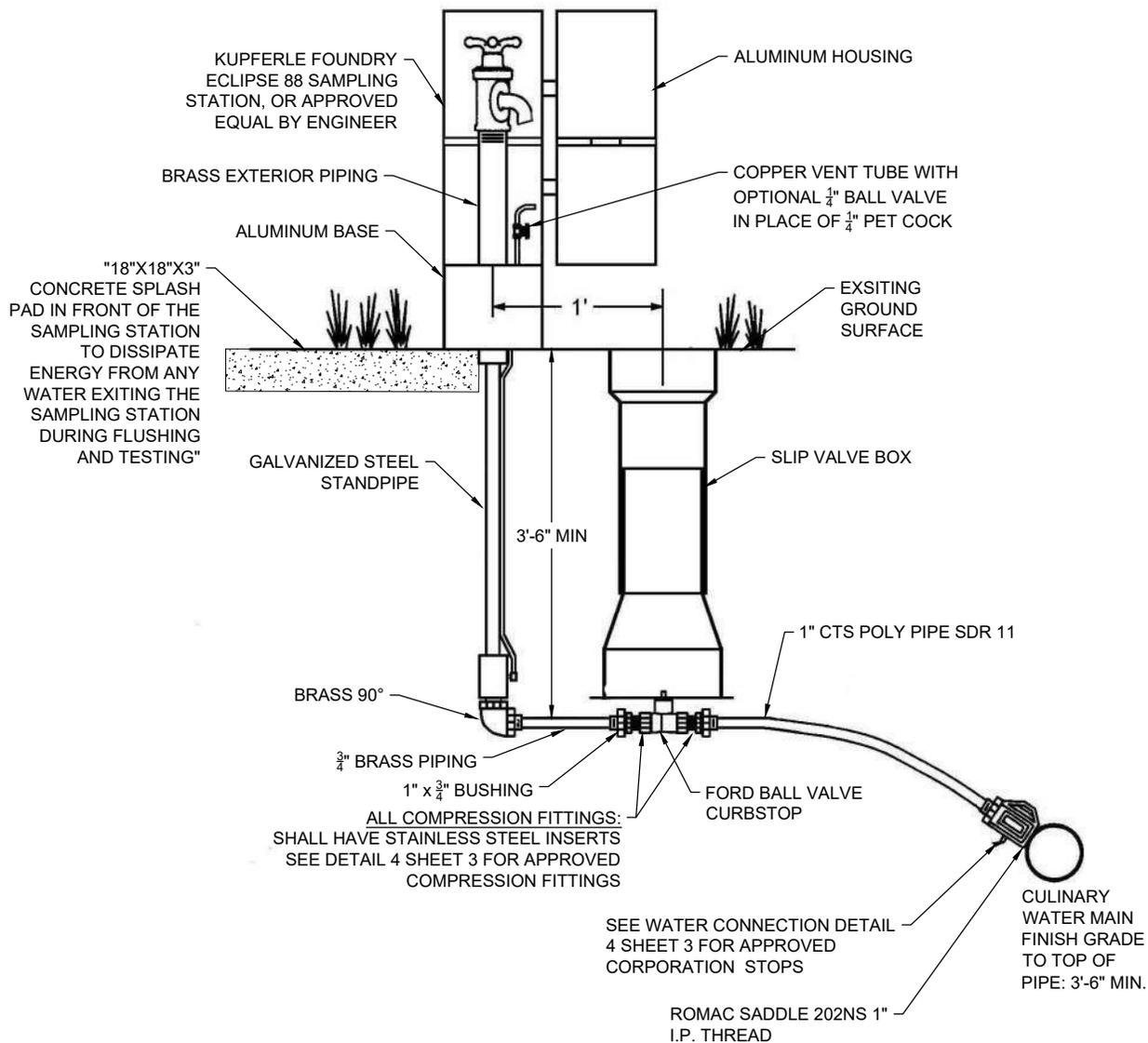
15 CANAL/UDOT CROSSING DETAIL

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STANDARD WATER DETAILS	
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CANAL/UDOT CROSSING DETAIL	SHEET 12

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16 SAMPLING STATION DETAIL

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STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT

CANAL/UDOT CROSSING DETAIL

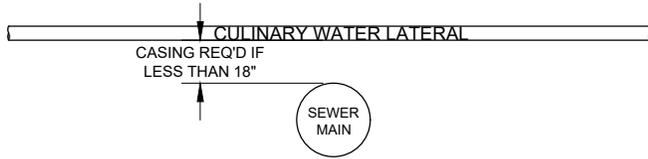
SHEET 13

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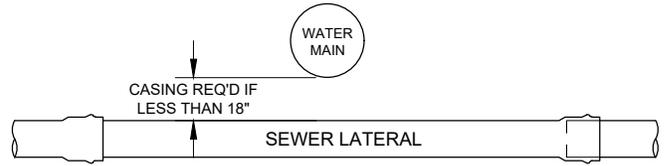
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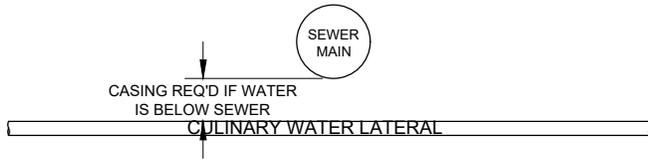
WATER LATERAL OVER SEWER MAIN



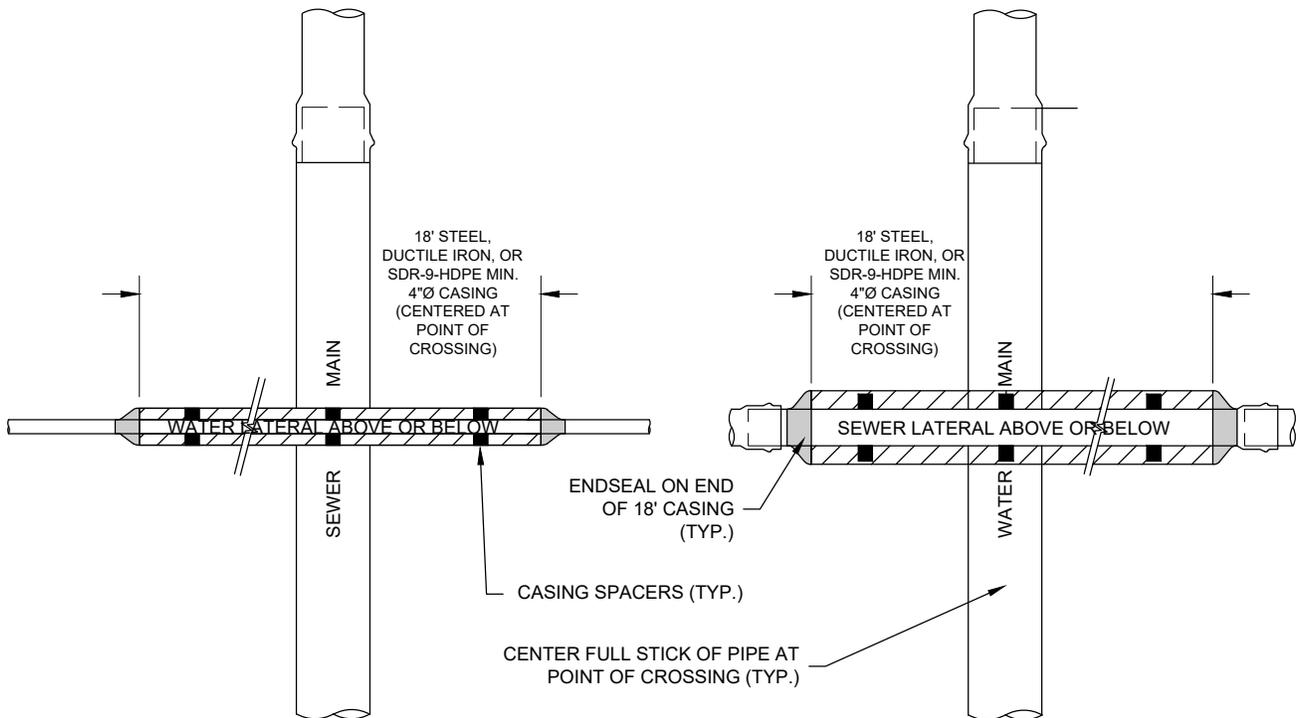
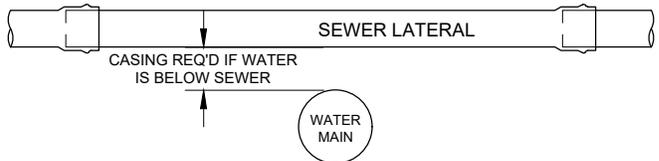
WATER MAIN OVER SEWER LATERAL



WATER LATERAL UNDER SEWER MAIN



WATER MAIN UNDER SEWER LATERAL



17 SEWER/WATER VERTICAL SEPARATION EXCEPTION DETAIL

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STANDARD WATER DETAILS

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SEWER/WATER CROSSING SHEET 14

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