

NOTES:

- CLAY WALL EXTENDS A MINIMUM OF 1'-0" INTO UNDISTURBED SOIL ON EACH SIDE AND ON BOTTOM OF TRENCH.
- 2. CLAY MATERIAL TO BE CLASSIFIED AS SC, CL OR ML-CL.
- 3. 3000 PSI CONCRETE MAY BE USED INSTEAD OF CLAY MATERIAL, IF APPROVED BY BOXELDER SANITATION DISTRICT ENGINEER.

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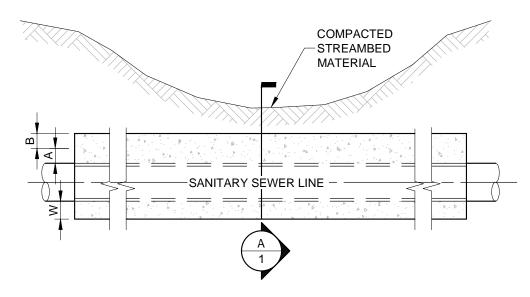
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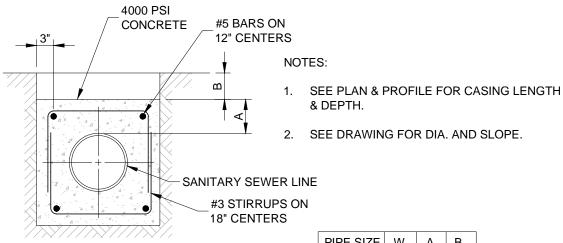
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CLAY CUT-OFF WALL DETAIL







SECTION A

VV	Α	В
4"	4"	4"
4"	4"	4"
4"	4"	4"
	4"	4" 4"

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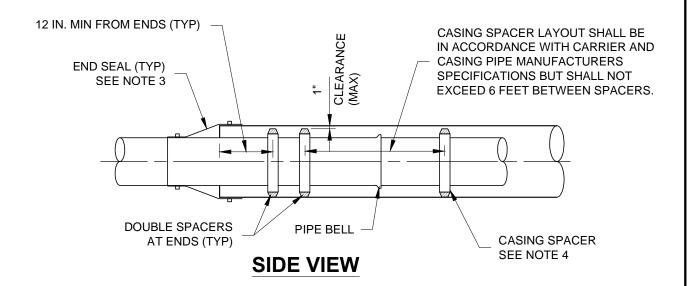
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CONCRETE ENCASEMENT DETAIL





NOTES:

- 1. MINIMUM YIELD STRENGTH OF CASING PIPE = 35000 PSI
- BORED OR JACKED INSTALLATIONS SHALL HAVE A BORED HOLE DIAMETER ESSENTIALLY THE SAME AS THE OUTSIDE DIAMETER OF THE CASING PIPE. IF VOIDS SHOULD DEVELOP OR IF THE BORED HOLE DIAMETER IS GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE BY MORE THAN 1 IN. REMEDIAL MEASURES AS APPROVED BY THE OWNER SHALL BE TAKEN.
- CASING END SEALS TO BE MINIMUM 1/8 IN. THICK NEOPRENE RUBBER WITH 1/2 IN. WIDE 304 STAINLESS STEEL BANDING (TYP).
- 4. SPACERS TO BE OF COATED STEEL DESIGNED TO SUPPORT CARRIER PIPE. RUNNERS TO BE A MINIMUM OF 2 IN. WIDE BY 11 IN. LONG AND CONSTRUCTED OF GLASS REINFORCED PLASTIC.

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CROSSING AND CASING DETAIL



NOTE:

MINIMUM CLEARANCE ON EACH SIDE OF PIPE AS FOLLOWS:

PIPE DIA.	CLEARANCE	
8" TO 12"	6"	
14" TO 30"	8"	
LARGER THAN 30"	12"	

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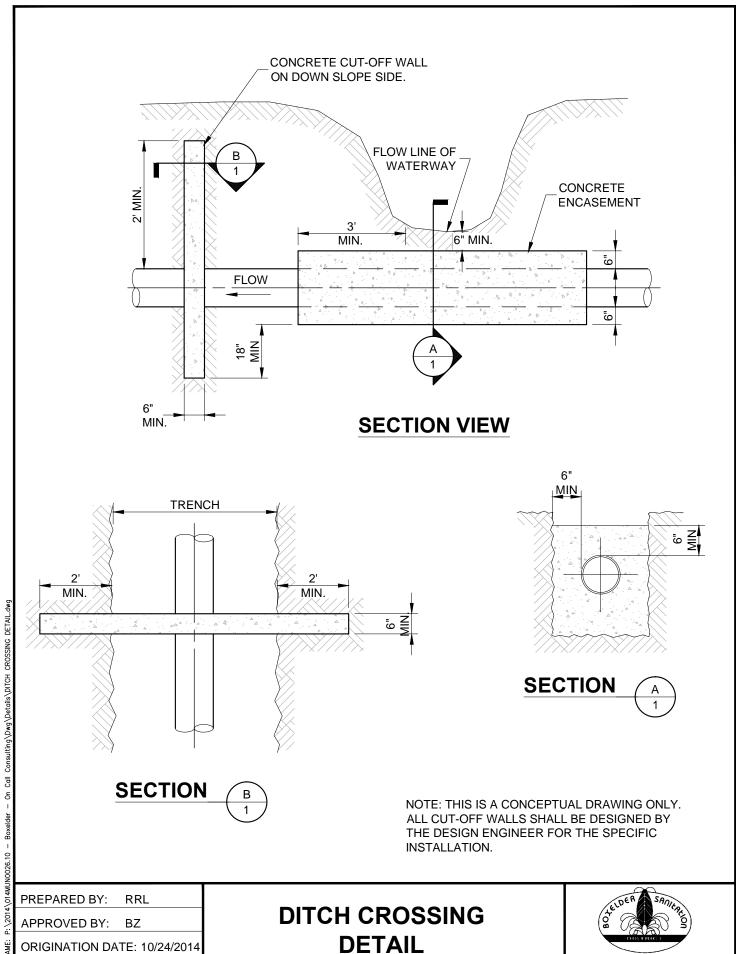
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TRENCH BEDDING DETAIL

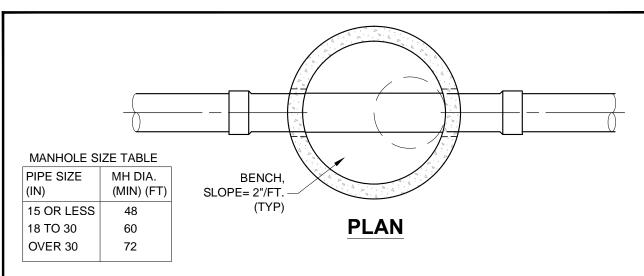


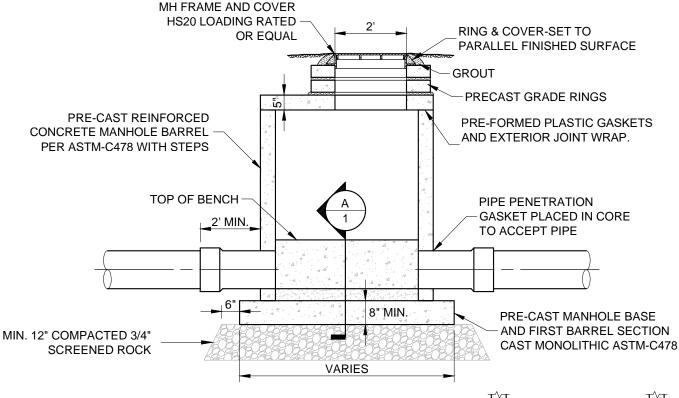


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GENERAL NOTES:

- ALL CONCRETE WORK SHALL COMPLY WITH LATEST ACI-318 SPECIFICATIONS.
- 2. SLOPE THROUGH MANHOLE SHALL HAVE A MINIMUM OF 0.2FT DROP FROM ENTRANCE THROUGH EXIT.
- JOINT SEALANT SHALL BE TWO (2) ROWS OF PRE-FORMED PLASTIC ROPES ON INNER AND OUTER RINGS AND ONE (1) EXTERNAL RUBBER SLEEVE.
- 4. HAND SHAPE FLOW CHANNEL AS NECESSARY AROUND PIPE TO PROVIDE DRAINAGE WITH NO STANDING WATER (SEE SECTION A).
- 5. FOR DEEP MANHOLES SEE SPECIFICATIONS.

01/05/2017

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FLAT TOP MANHOLE



SECTION

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SERVICE CLEAN-OUT REQUIREMENTS

- SEWER SERVICE CLEAN-OUTS SHALL BE INSTALLED AS NEAR AS PRACTICAL TO CONNECTION WITH THE BUILDING, AND AT A MAXIMUM SPACING OF 100'. NO SINGLE BEND GREATER THAN 45° SHALL BE ALLOWED.
- 2. CLEAN-OUTS SHALL MEET ALL REQUIREMENTS OF THE UNIFORM PLUMBING CODE.

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SERVICE CLEAN-OUT DETAIL



NOTES:

- 1. APPROVED TAPPING SADDLE TO BE USED FOR NEW SERVICES TO EXISTING MAINS SHALL BE TEES. PIPE PENETRATIONS SHALL BE MECHANICALLY DRILLED.
- 2. TAPHOLE MUST BE ABOVE THE SPRINGLINE.
- 3. 4" SEWER SERVICES SHALL HAVE A MINIMUM SLOPE OF 2.0%.
- 4. 6" SEWER SERVICES SHALL HAVE A MINIMUM SLOPE OF 1.0%.
- 5. SERVICES SHALL NOT BE CLOSER THAN 5 FEET FROM EACH OTHER ON THE MAIN.

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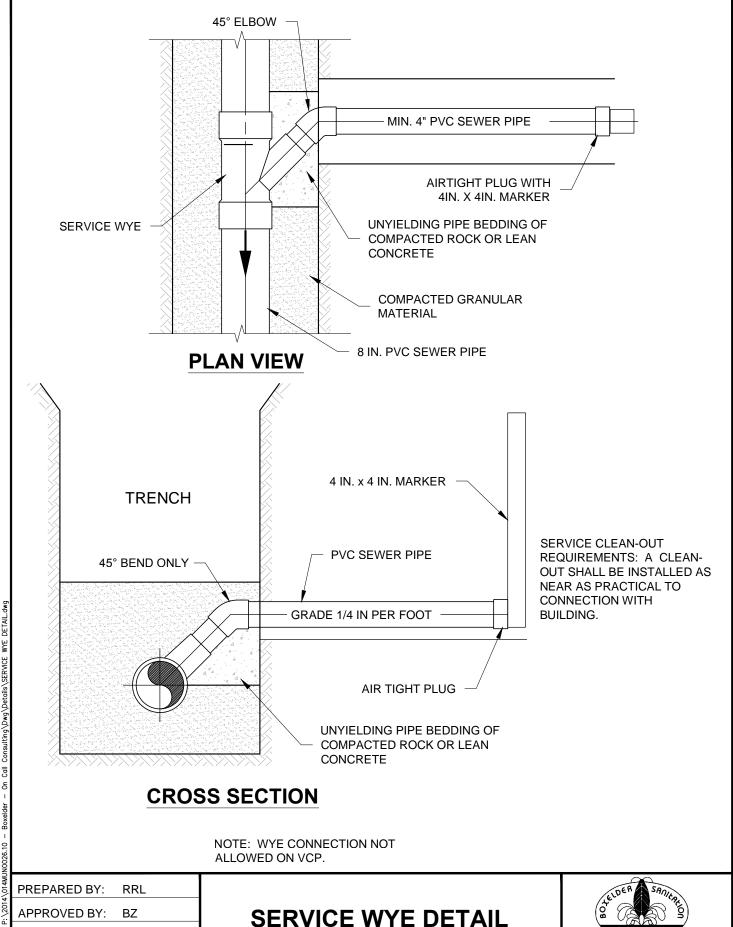
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SERVICE CONNECTION USING A TAPPING SADDLE





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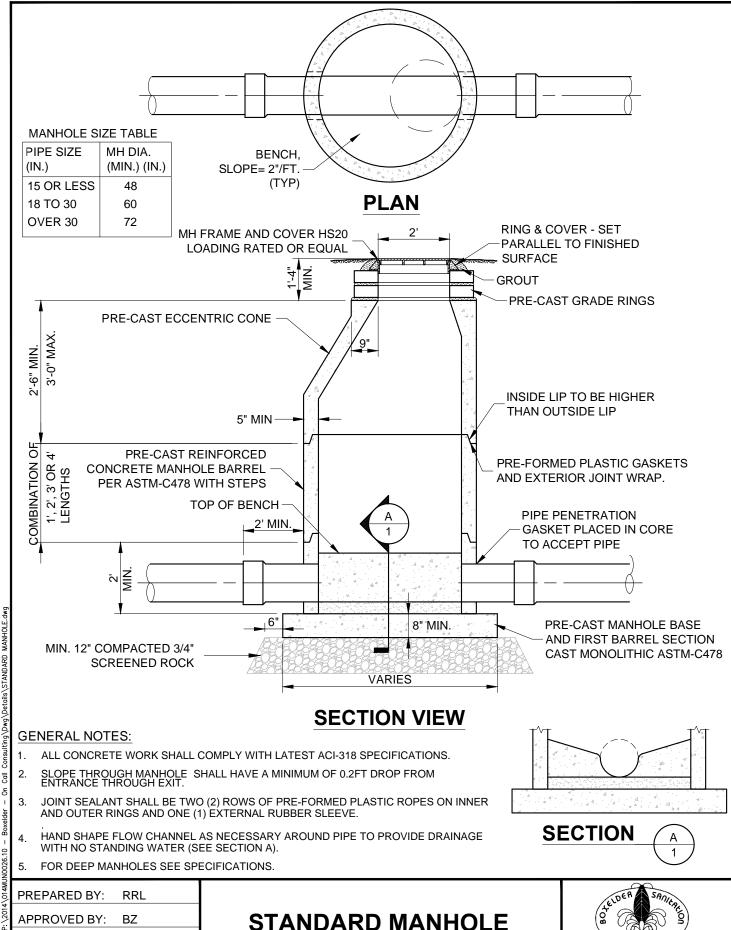
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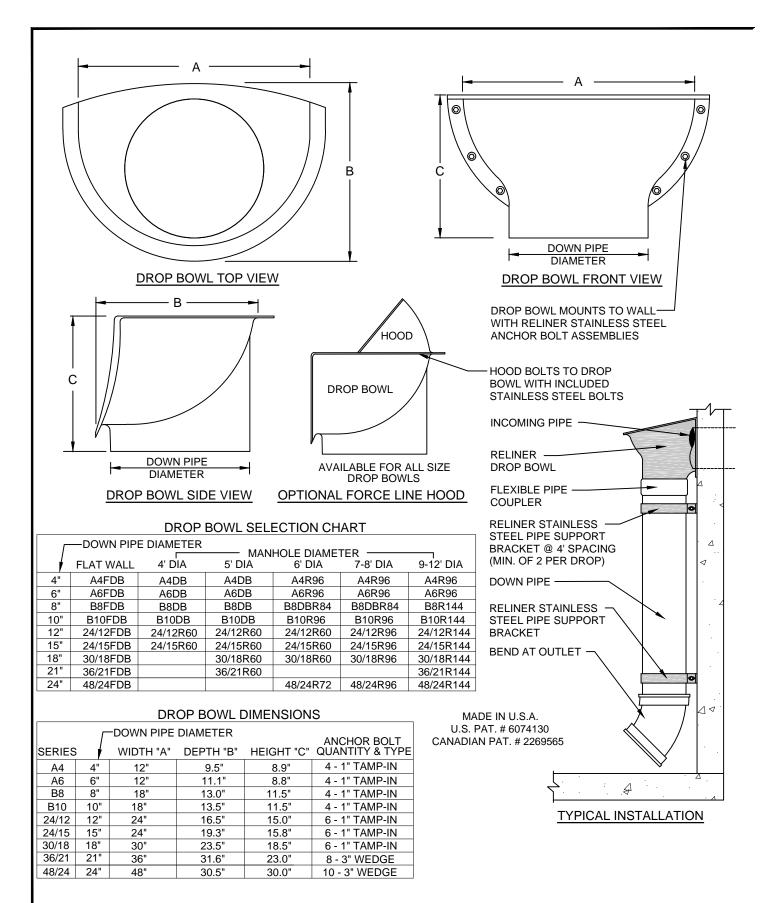
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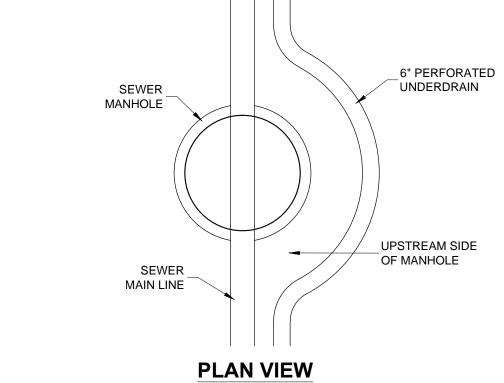
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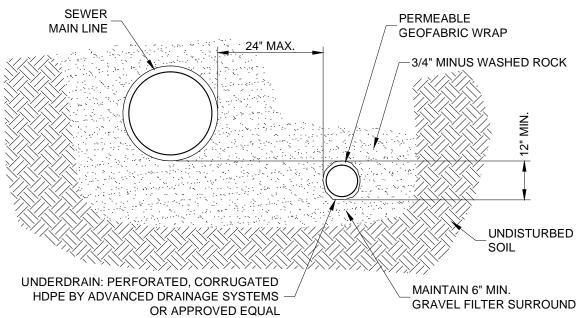


INSIDE DROP
MANHOLE DETAIL



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NOTES:

- 1. UNDERDRAIN INVERT TO BE LOWER THAN SEWER INVERT AT ALL PLACES.
- MAINTAIN POSITIVE SLOPE OF UNDERDRAIN TO DAYLIGHT.
- MAINTAIN 6" MINIMUM OF SQUEEGEE AROUND UNDERDRAIN.
- SEE TYPICAL TRENCH DETAIL.
- BSD SHALL NOT ASSUME OWNERSHIP OF UNDERDRAINS AND WILL NOT BE RESPONSIBLE FOR MAINTENANCE OF SAME.

PREPARED BY: RRL APPROVED BY: ΒZ ORIGINATION DATE: 10/24/2014

UNDERDRAIN DETAIL



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