

NOT TO SCALE



TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

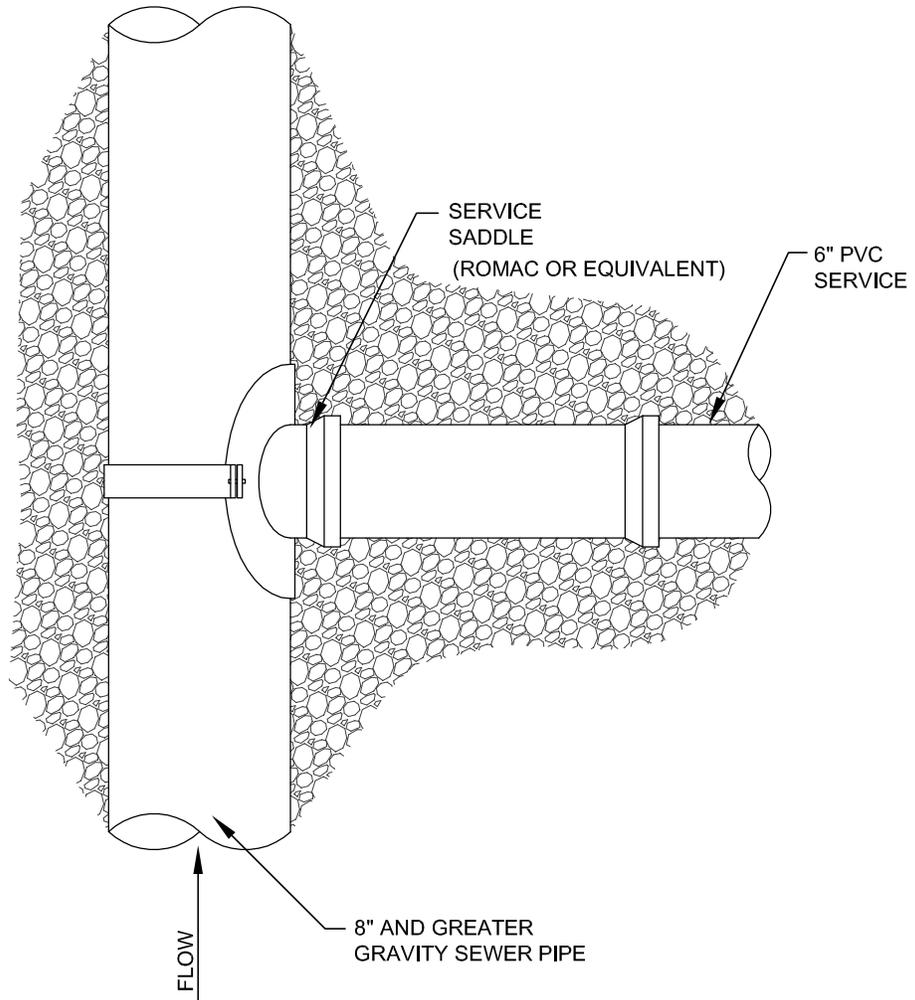
SERVICE CONNECTION
(GRAVITY)

DATE:
FEB. 2010

REV:
1

DETAIL NO.

S-3.1.0



NOTES:

1. INSTALL SADDLE FIRST, THEN CORE HOLE.
2. INSERTA- TEE SERVICE CONNECTORS MAY BE ALLOWED UPON SPECIFIC DPW APPROVAL.

NOT TO SCALE



TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

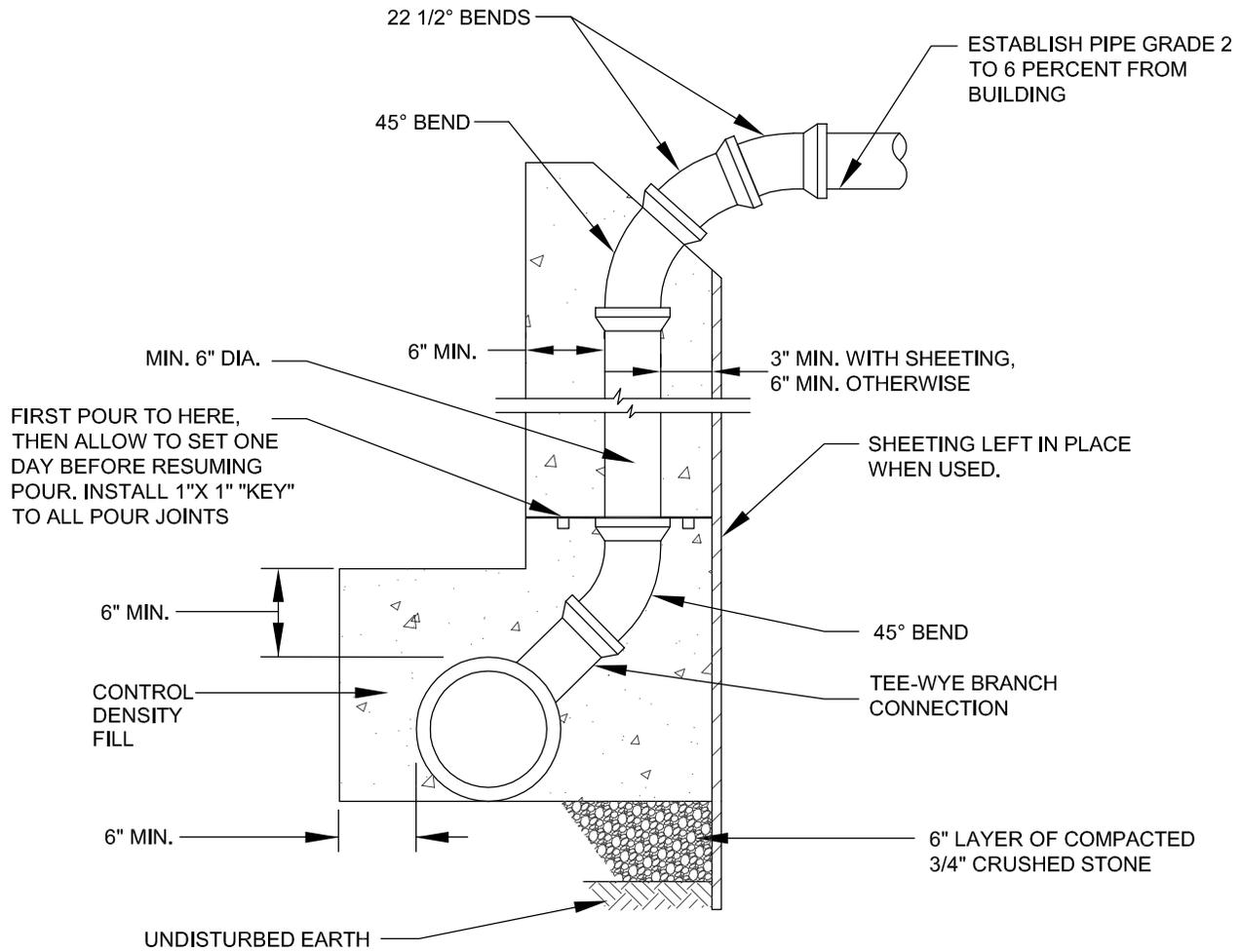
**SERVICE CONNECTION
(SADDLE)**

DATE:
MAR. 2012

REV:
1

DETAIL NO.

S-3.1.1



NOTE:

1. SEE SECTION 3.3.1.7.D.

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TOWN OF FRAMINGHAM
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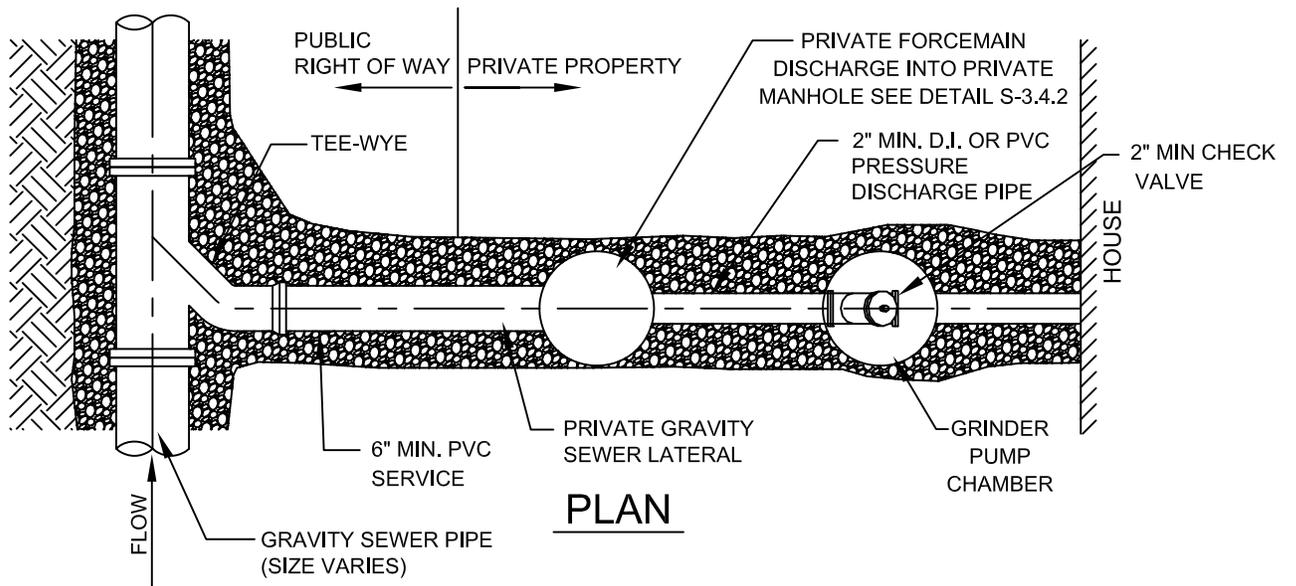
CHIMNEY

DATE:
MAR. 2012

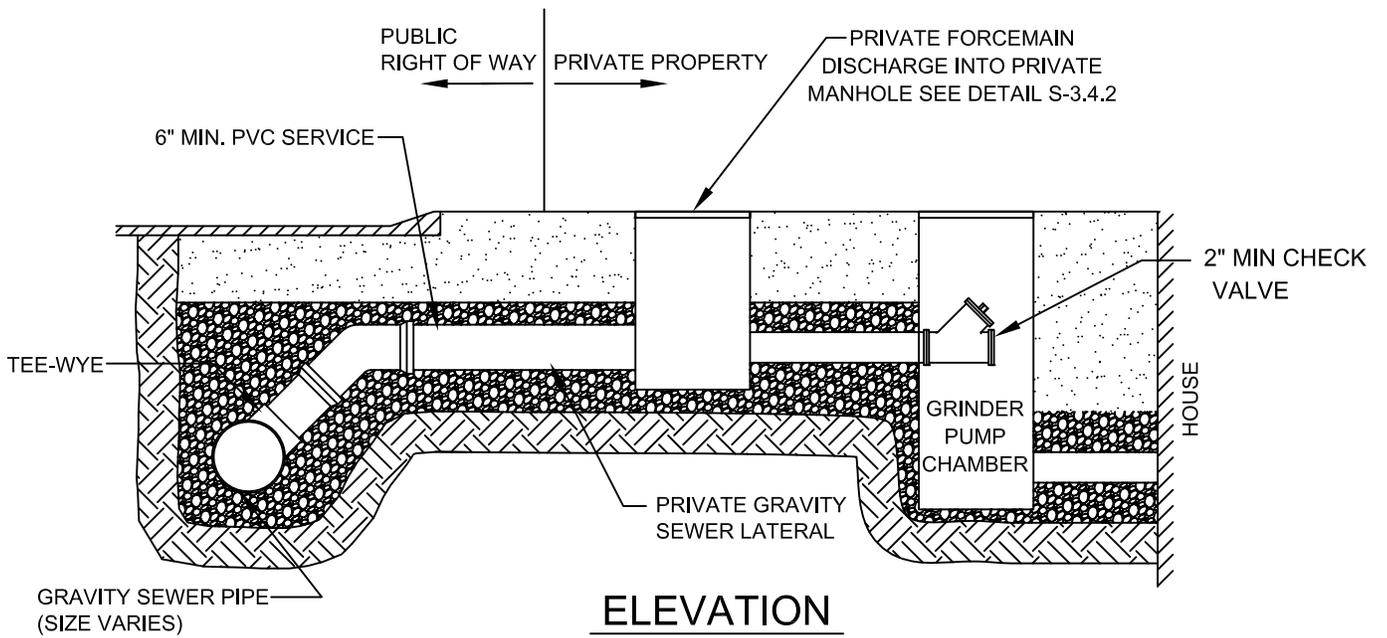
REV:
1

DETAIL NO.

S-3.1.2



PLAN



ELEVATION

NOTES:

- 1. PIPE SIZES AND DEPTHS VARY.

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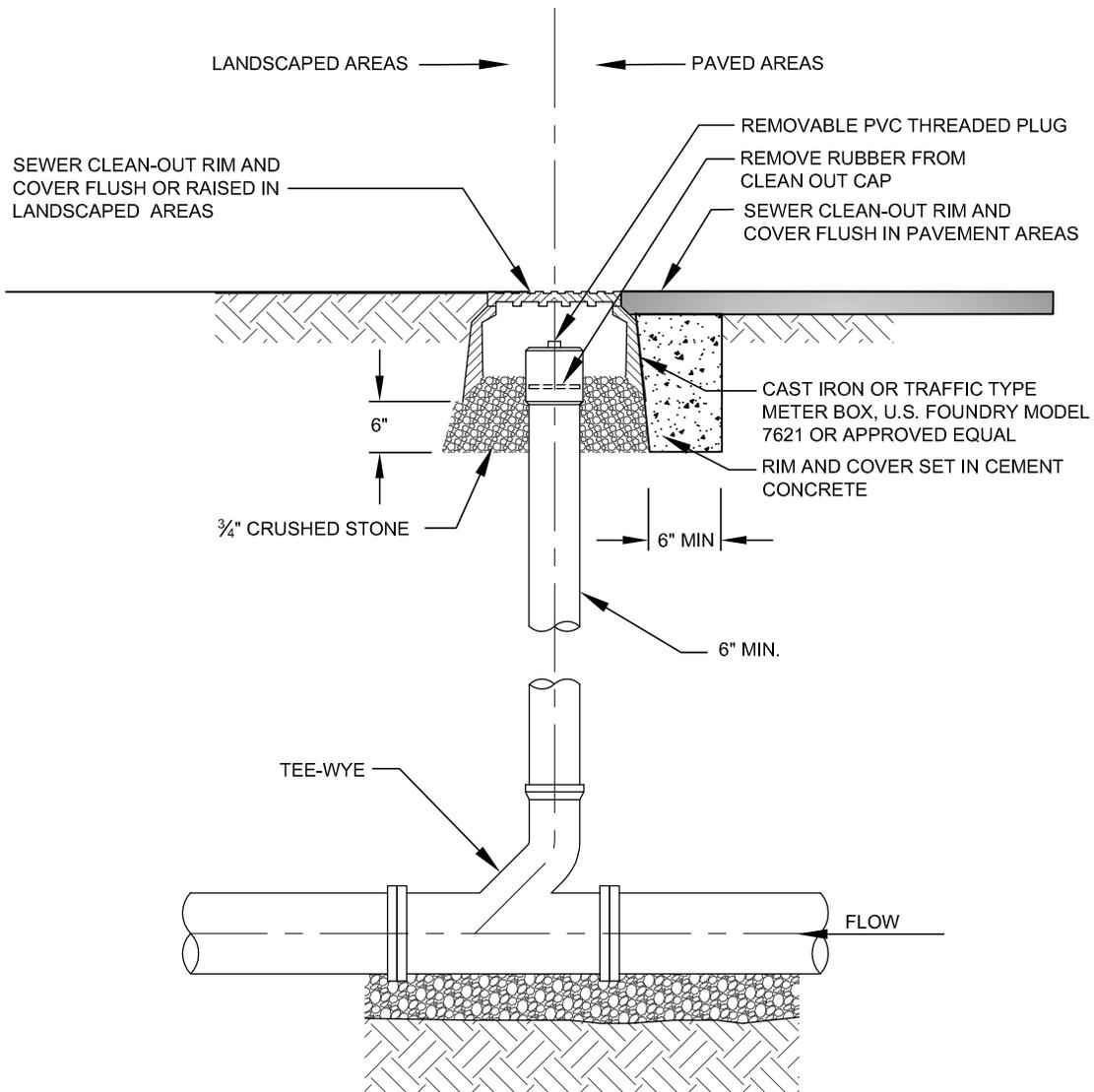
**SERVICE CONNECTION
(GRINDER)**

DATE:
JAN 2016

REV:
1

DETAIL NO.

S-3.1.3



NOTES:

1. PLACE CLEAN OUT WITHIN 5 FEET OF HOUSE FOUNDATION.
2. CLEAN OUT SHALL BE ACCESSIBLE AT ALL TIMES.
3. 6" MIN. LAYER OF 3/4" CRUSHED STONE 12" IN LEDGE.
4. FLUSH MOUNT BOLT-DOWN BOX ACCEPTABLE UPON SPECIFIC APPROVAL BY DPW.

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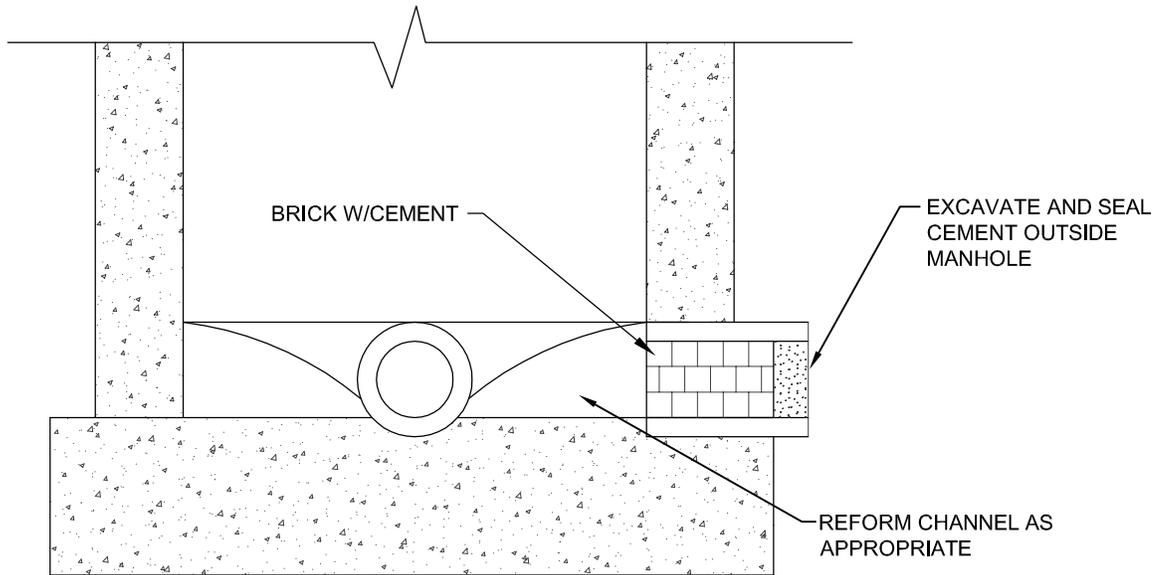
SEWER SERVICE
CLEAN OUT

DATE:
MARCH 2012

REV:
1

DETAIL NO.

S-3.2.0



NOTES:

1. THIS DRAWING DEPICTS CONCRETE PIPE.
2. USE MECHANICAL PLUGS WHEN ABANDONING PLASTIC PIPES.

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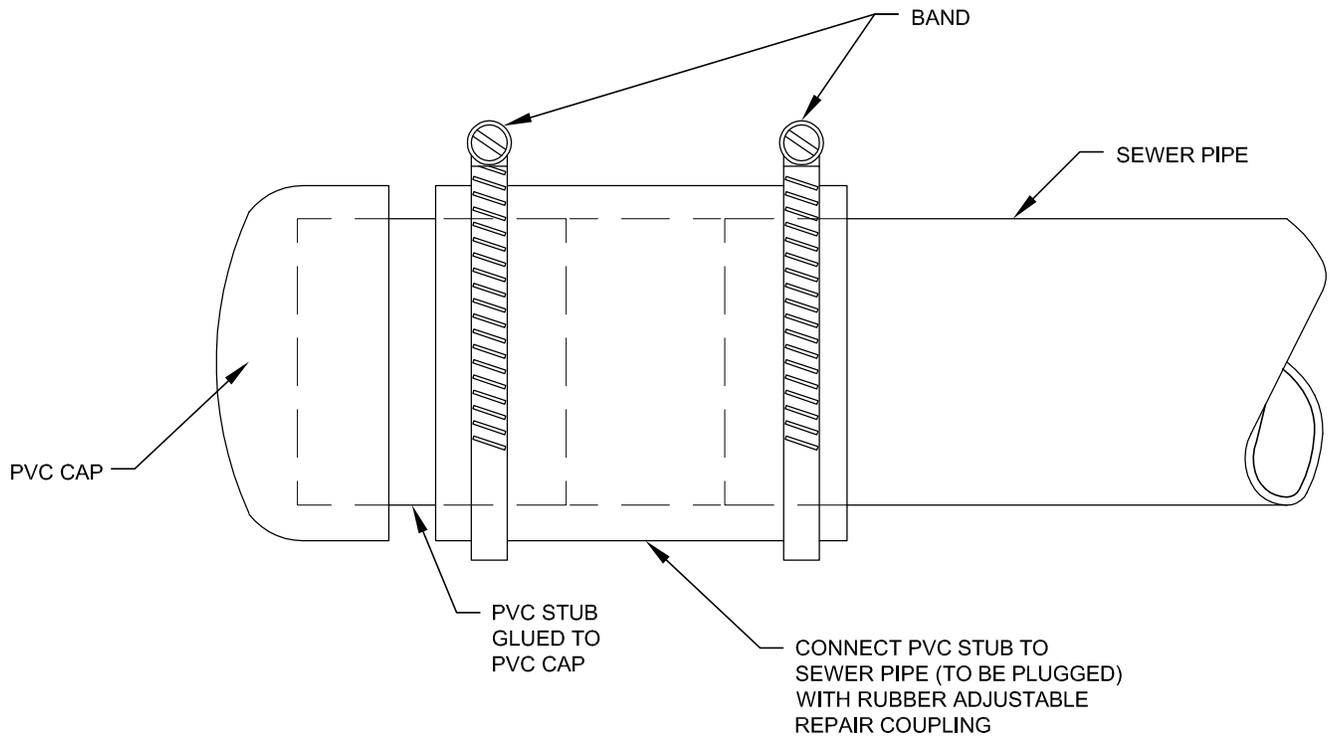
PLUG FOR ABANDONING
SANITARY SEWER

DATE:
SEPT. 2008

REV:
0

DETAIL NO.

S-3.3.0



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TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

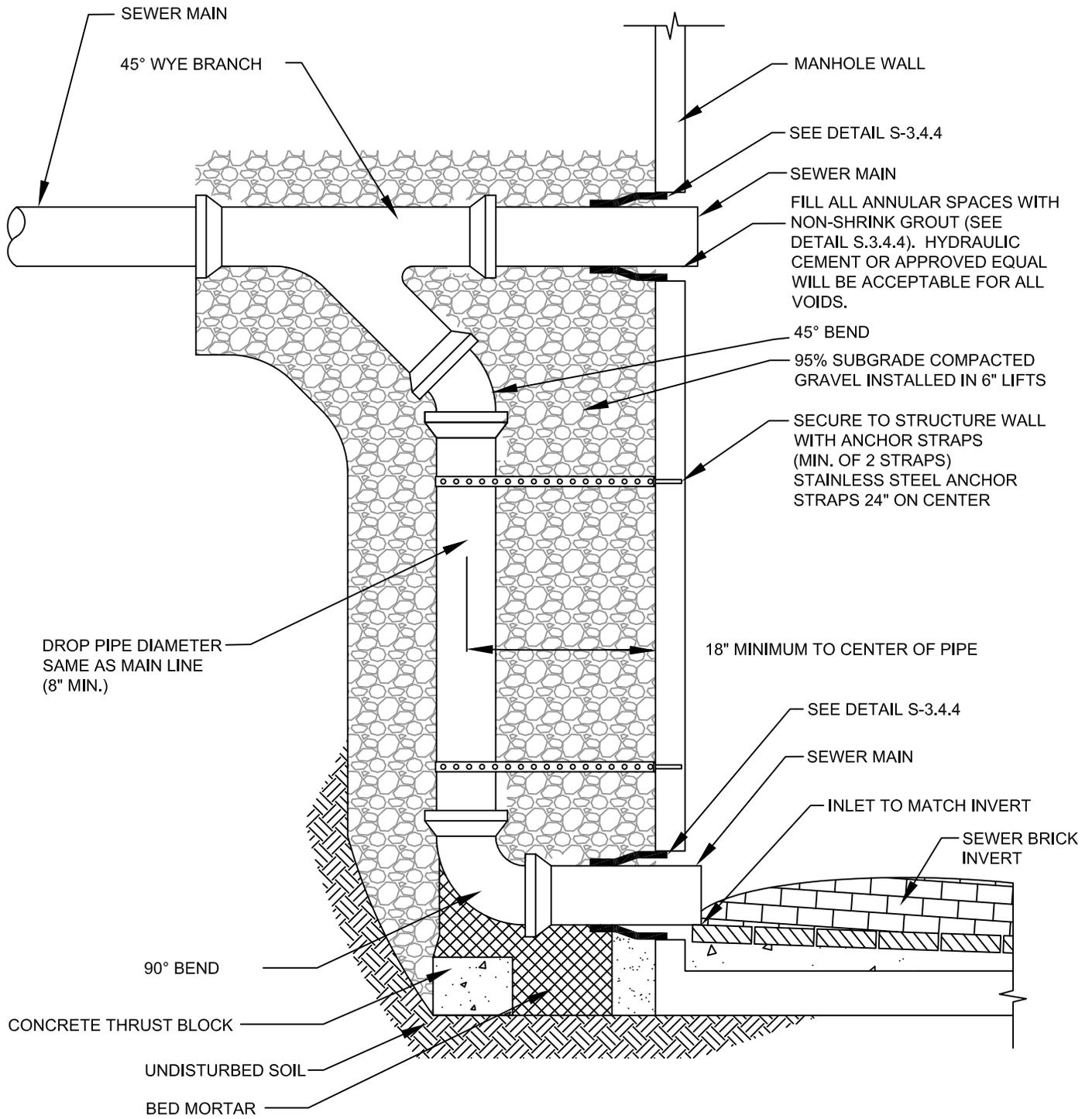
PLUG FOR SANITARY SEWER

DATE:
SEPT. 2008

REV:
0

DETAIL NO.

S-3.3.1



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NOTES

1. BOTH PVC PIPE OR DUCTILE IRON PIPE ARE ACCEPTABLE.
2. IF DUCTILE IRON PIPE IS USED, 90° BENDS SHALL BE POLY-WRAPPED WITHIN THE LIMITS OF THE MORTARED SECTION



TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

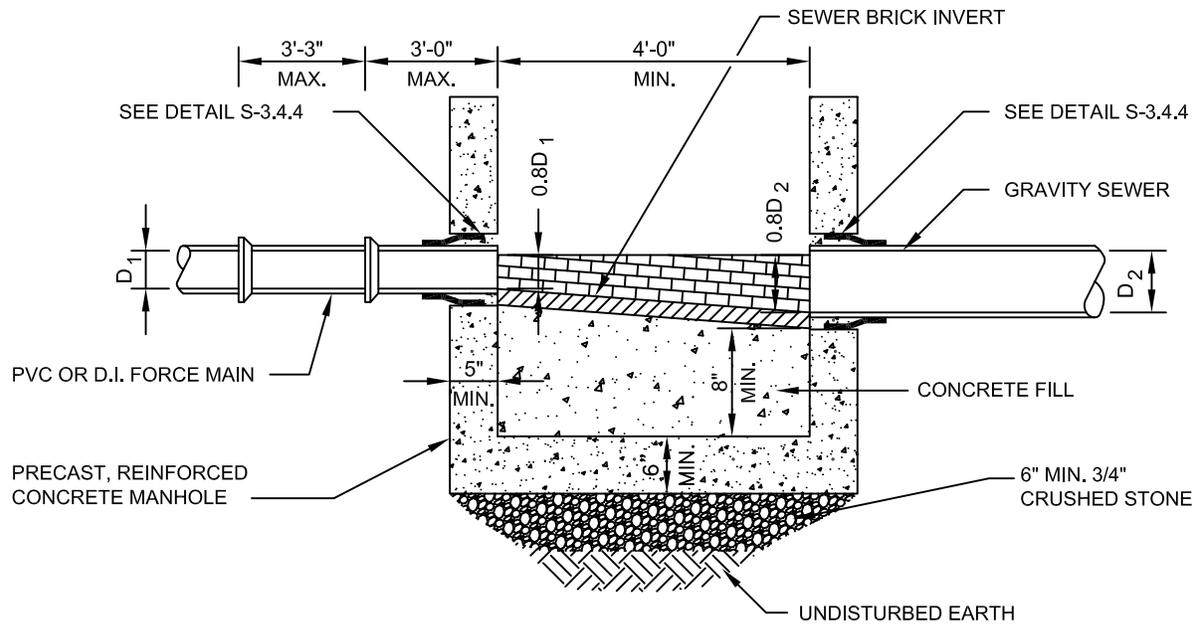
TYPICAL DROP MANHOLE
(OUTSIDE)

DATE:
MARCH 2015

REV:
5

DETAIL NO.

S-3.4.1



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TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

FORCEMAIN MANHOLE

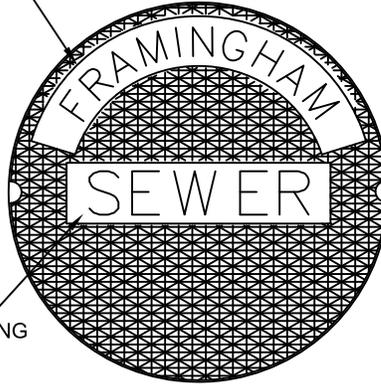
DATE:
MARCH 2015

REV:
1

DETAIL NO.

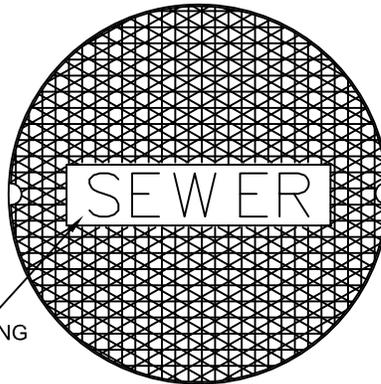
S-3.4.2

COVER SHALL READ
"FRAMINGHAM" IN 2"
LETTERING



COVER SHALL READ
"SEWER" IN 3" LETTERING

Public Manhole



COVER SHALL READ
"SEWER" IN 3" LETTERING

Private Manhole

NOTES:

1. COVER LETTERING DETAIL APPLIES TO ALL COVER SIZES AND WATERTIGHT MANHOLE COVERS IN ACCORDANCE WITH NOTES IN TYPICAL MANHOLE DETAIL.
2. ALL COVERS MUST BE MIN. 26 INCH WIDE.
3. ALL FRAMES MUST BE MIN. 6 INCH HIGH.
4. WATER TIGHT MANHOLE COVERS SHALL UTILIZE STAINLESS STEEL BOLTS.

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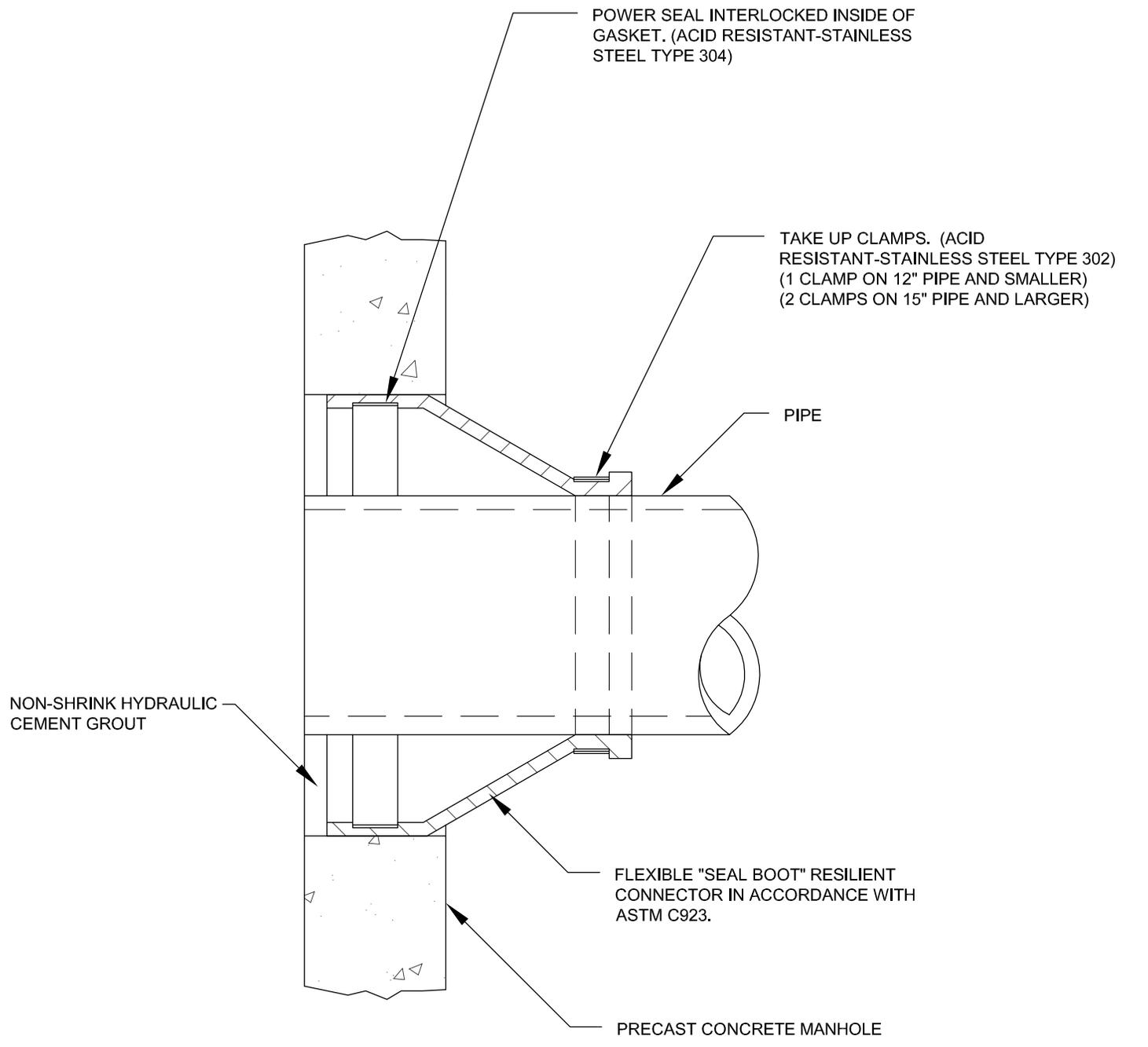
SEWER MANHOLE COVERS

DATE:
MARCH 2015

REV:
2

DETAIL NO.

S-3.4.3



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TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

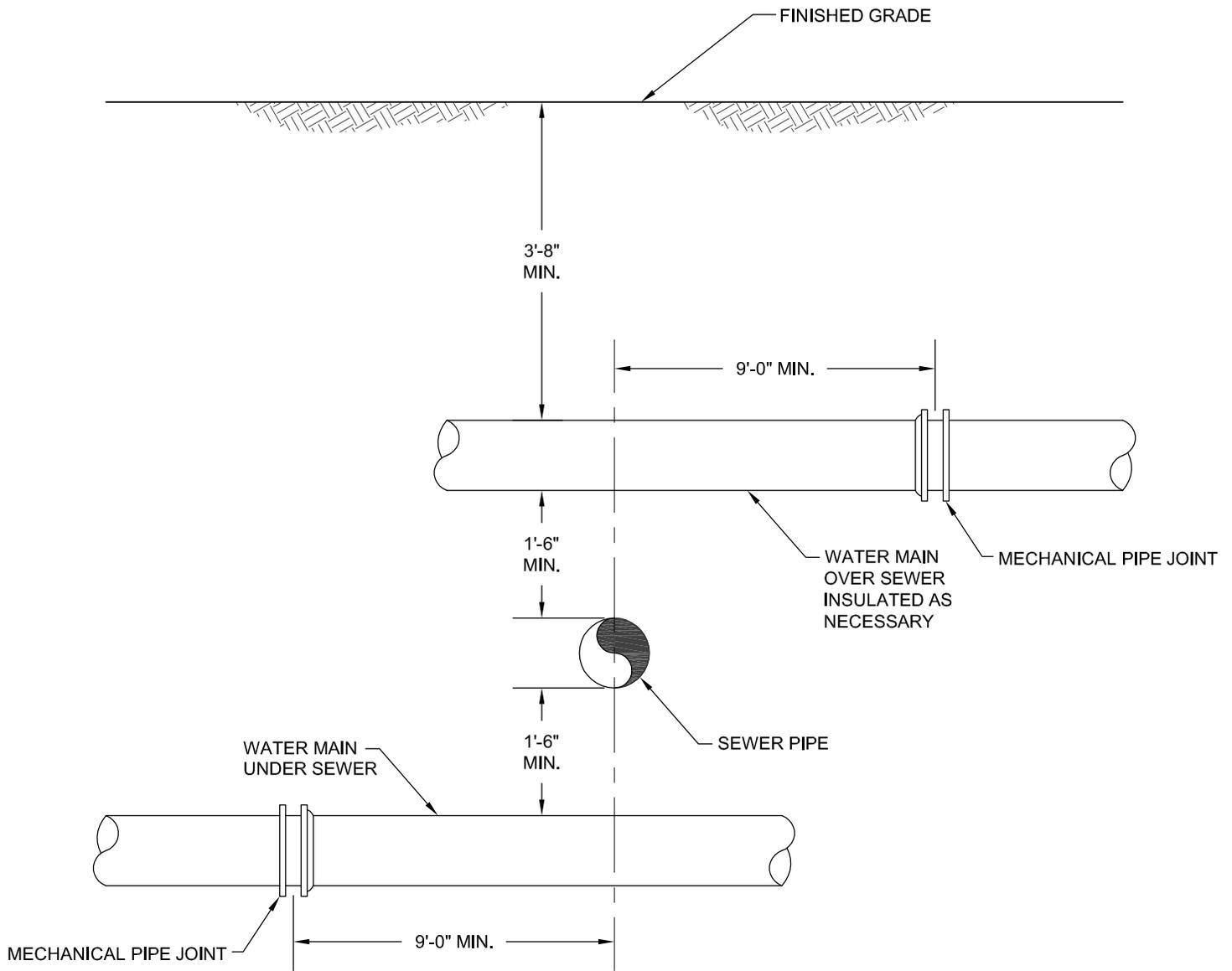
MANHOLE SEAL
(TYPICAL)

DATE:
MARCH 2011

REV:
2

DETAIL NO.

S-3.4.4



NOTES:

1. SEWERS SHALL BE KEPT REMOTE FROM WATER SUPPLY PIPING AND STRUCTURES. WHEREVER FEASIBLE, SEWERS SHOULD BE LAID AT A MINIMUM HORIZONTAL DISTANCE OF 10 FEET FROM WATER MAINS. IF LOCAL CONDITIONS PREVENT THIS, THE WATER MAIN SHOULD BE LAID IN A SEPARATE TRENCH, AND THE ELEVATIONS OF THE CROWN OF THE SEWER PLACED AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.
2. WHENEVER SEWERS MUST CROSS UNDER WATER MAINS, THE CROWN OF THE SEWER SHOULD BE PLACED A MINIMUM OF 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IN ADDITION, THE WATER MAIN MUST BE CONSTRUCTED WITH ONE FULL LENGTH OF PIPE CENTERED ABOVE THE CROSSING. THE WATER PIPE SHALL HAVE MECHANICAL JOINTS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING.
3. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER AND THE SEWER PIPING SHALL BE CONSTRUCTED SUCH THAT THE PIPE JOINTS ARE PLACED AS FAR AWAY FROM THE CROSSING AS POSSIBLE AND THE PIPE CROSSING SHALL BE ENCASED IN CONTROL DENSITY FILL FOR A DISTANCE OF 10 FEET ON ALL SIDES OF THE CROSSING.
4. SEE SECTION 3.3.1.2 PIPE INSTALLATION.

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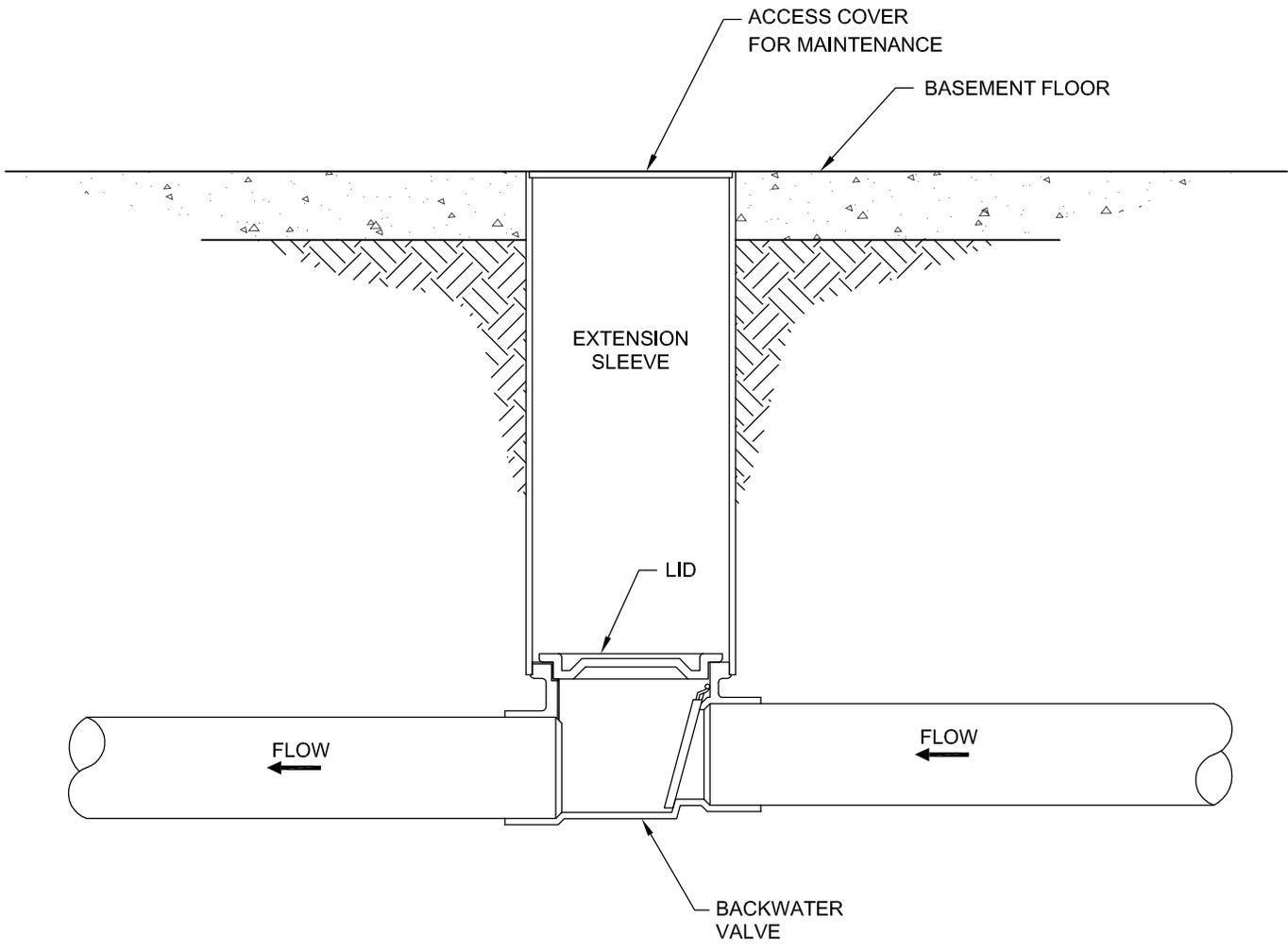
SEWER CROSSING

DATE:
MAR. 2012

REV:
1

DETAIL NO.

S-3.5.0



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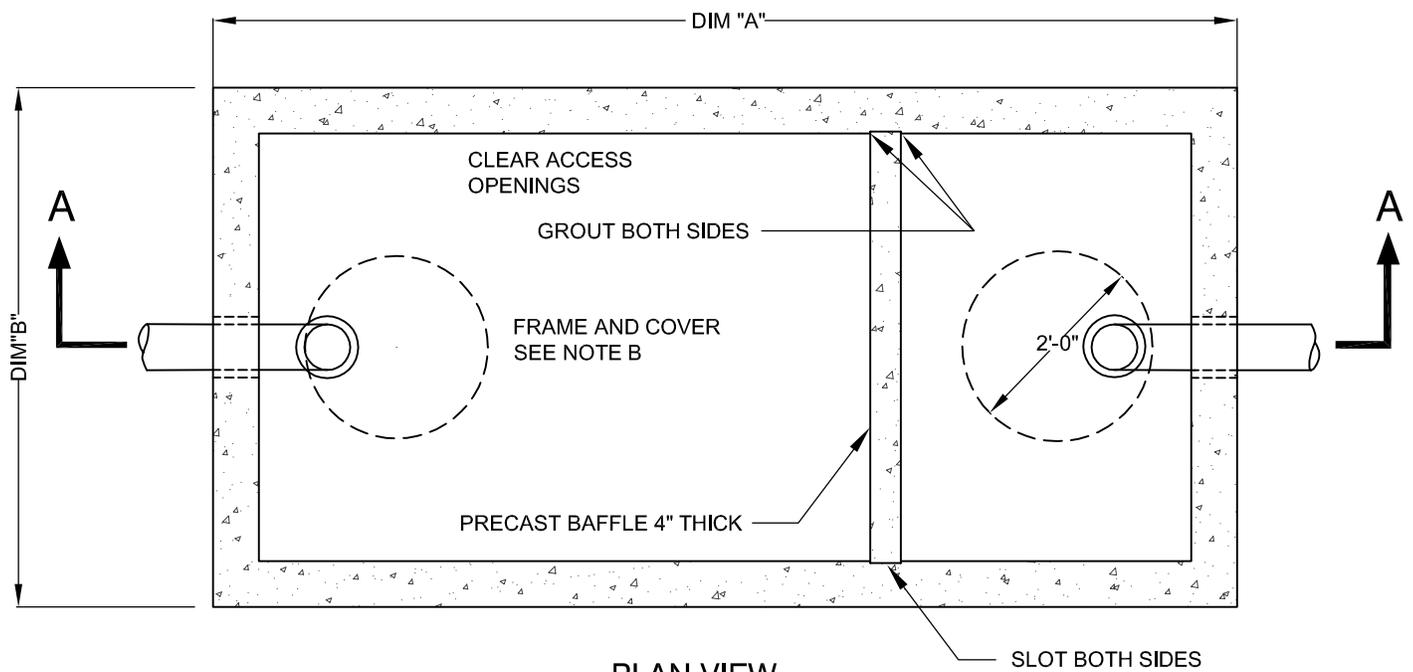
TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

BACKWATER VALVE
ASSEMBLY

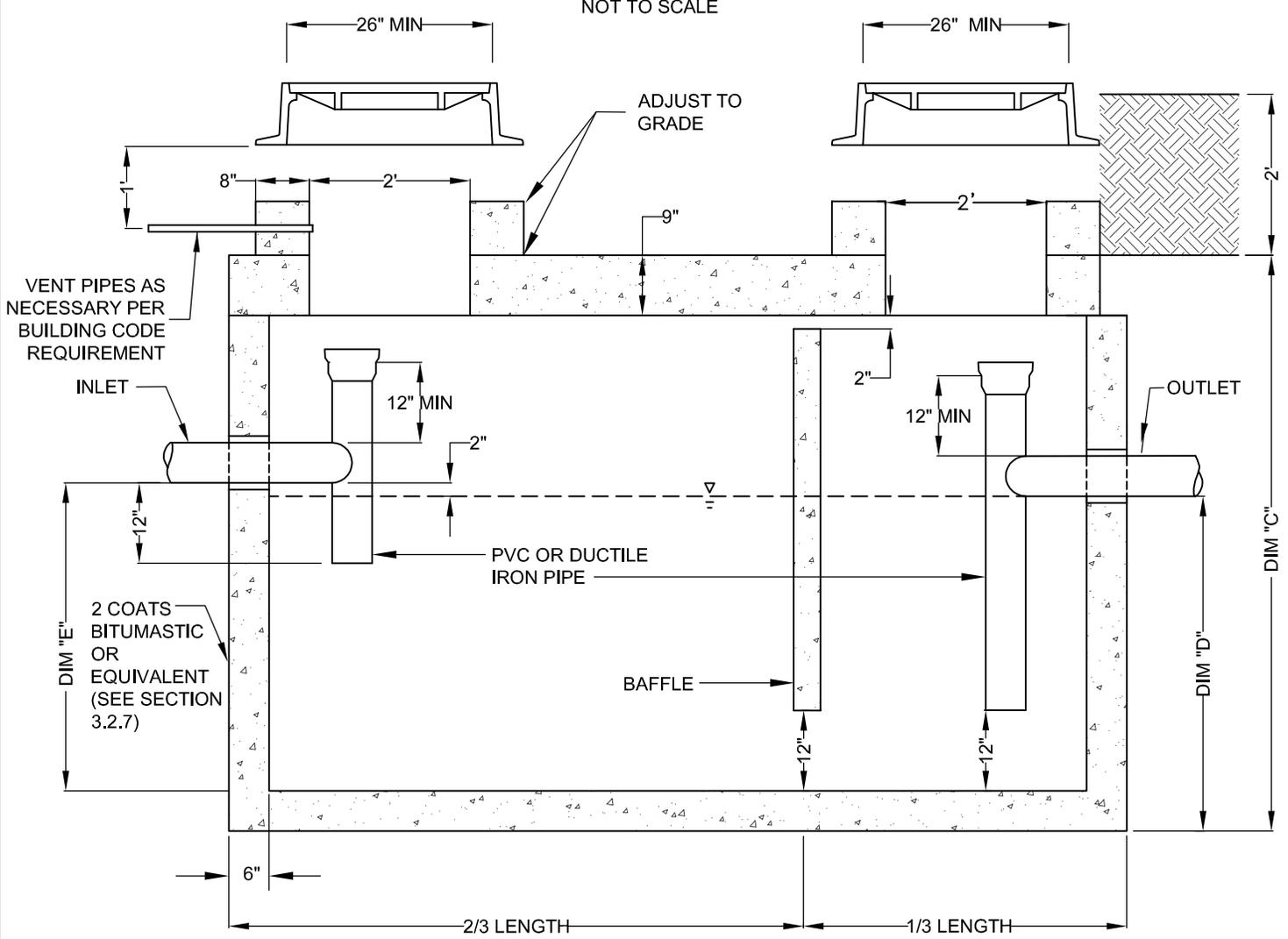
DATE:
SEPT. 2008

REV:
0

DETAIL NO.
S-3.6.0



PLAN VIEW
NOT TO SCALE



SECTION AA
NOT TO SCALE

 <p>TOWN OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS</p>	<p>TYPICAL GREASE TRAP</p>	<p>DATE: MARCH 2012</p>	<p>DETAIL NO. S-3.7.0</p>
		<p>REV: 2</p>	

SIZING CHART

GALLON CAPACITY	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
1000	9'-0"	5'-0"	7'-2"	4'-2"	3'-10"
1250	9'-0"	5'-0"	7'-2"	5'-2"	4'-10"
1500	11'-2"	5'-8"	7'-2"	4'-4"	4'-0"
1750	11'-2"	5'-8"	7'-2"	4'-11"	4'-7"
2000	12'-8"	6'-8"	8'-0"	4'-7"	3'-10"
2500	12'-8"	6'-8"	8'-0"	5'-6"	4'-9"
2750	12'-8"	6'-8"	8'-0"	6'-0"	5'-3"
3000	15'-7"	9'-7"	8'-6.5"	5'-0"	3'-9"
4000	15'-7"	9'-7"	8'-6.5"	6'-3"	5'-0"
5000	19'-11"	9'-11"	8'-11"	6'-2"	4'-9"
6000	19'-11"	9'-11"	10'-5"	7'-2"	5'-9"

NOTES:

1. CONCRETE : 28 DAY F'c= 4500 psi
2. REBAR : ASTM A615 GRADE 60.
3. MESH : ASTM A-185 GRADE 65.
4. DESIGN : AC1318-83 BUILDING CODE
ASTM C-857 MINIMUM STRUCTURAL DESIGN
LOADING FOR UNDERGROUND PRECAST
CONCRETE UTILITY STRUCTURES
5. LOADS : H-20 LOADING.
6. FILL w/CLEAN WATER PRIOR TO START UP OF SYSTEM.
7. LARGER SIZES MAY BE REQUIRED AS PER REVIEW OF FACILITY.
TRAP SIZE WILL BE 1,000 GALLONS MINIMUM.
8. FRAME AND COVER SHALL BE PER TOWN OF FRAMINGHAM
SEWER CONSTRUCTION STANDARDS 3.4 FOR PRIVATE
PROPERTY INSTALLATIONS.
9. SEE GREASE TRAP CONSTRUCTION STANDARDS SECTION 3.7
FOR OTHER REQUIREMENTS.



TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS

TYPICAL GREASE TRAP SIZING AND NOTES

DATE:
JANUARY 2016

REV:
2

DETAIL NO.

S-3.7.1