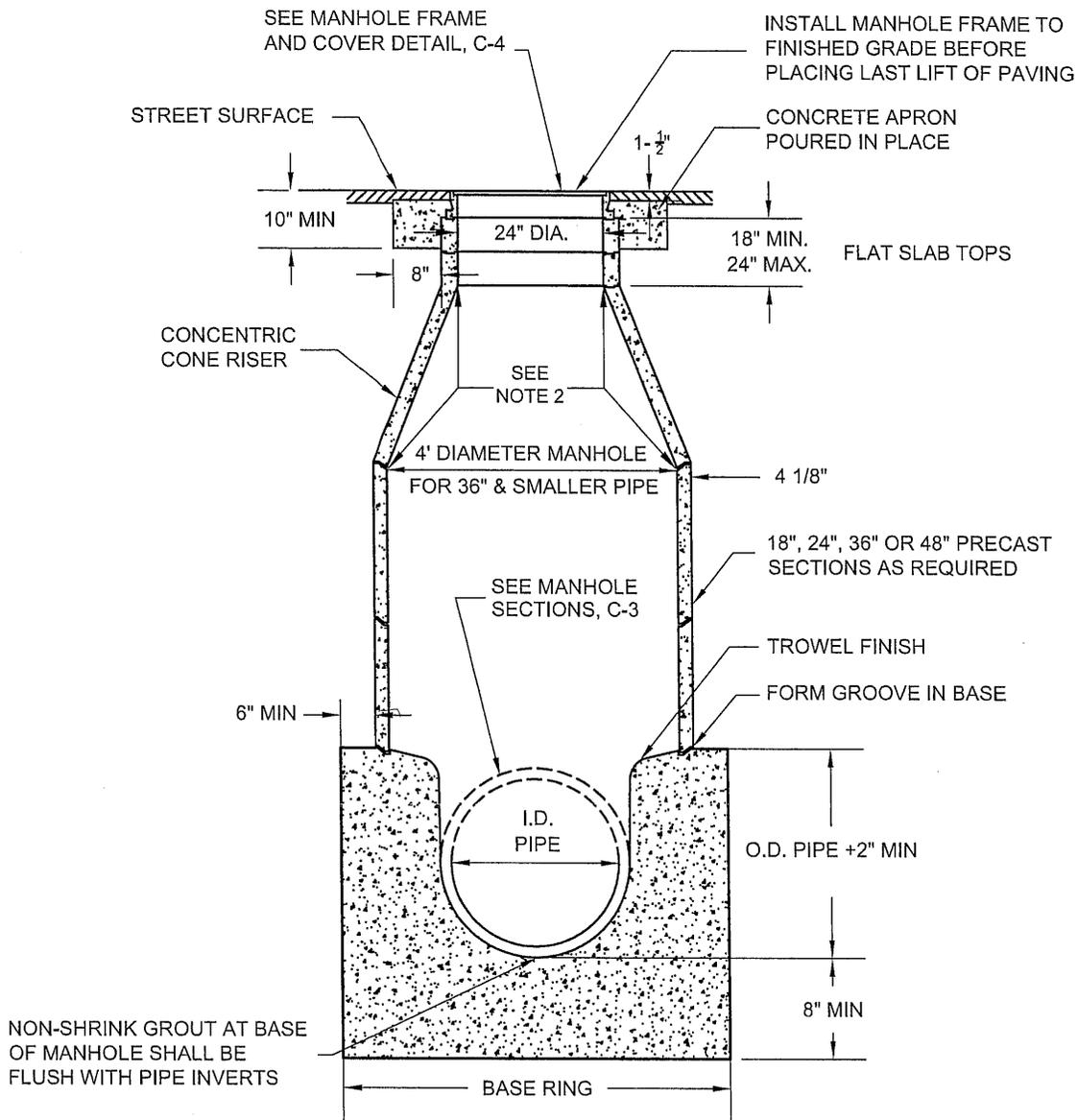


NO STEP TO BE INSTALLED



NOTES:

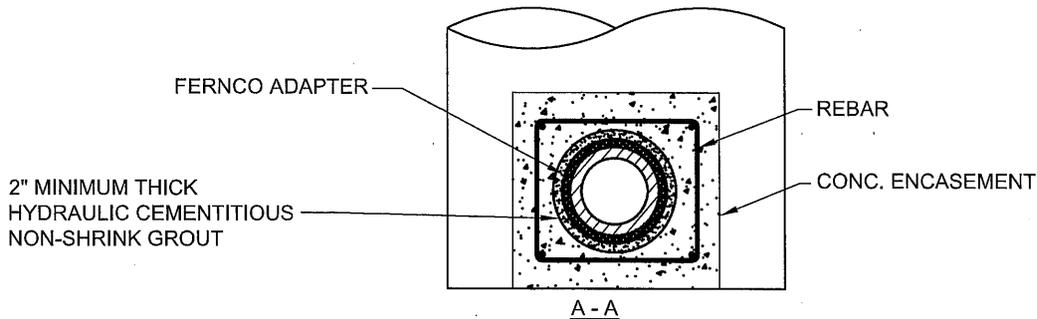
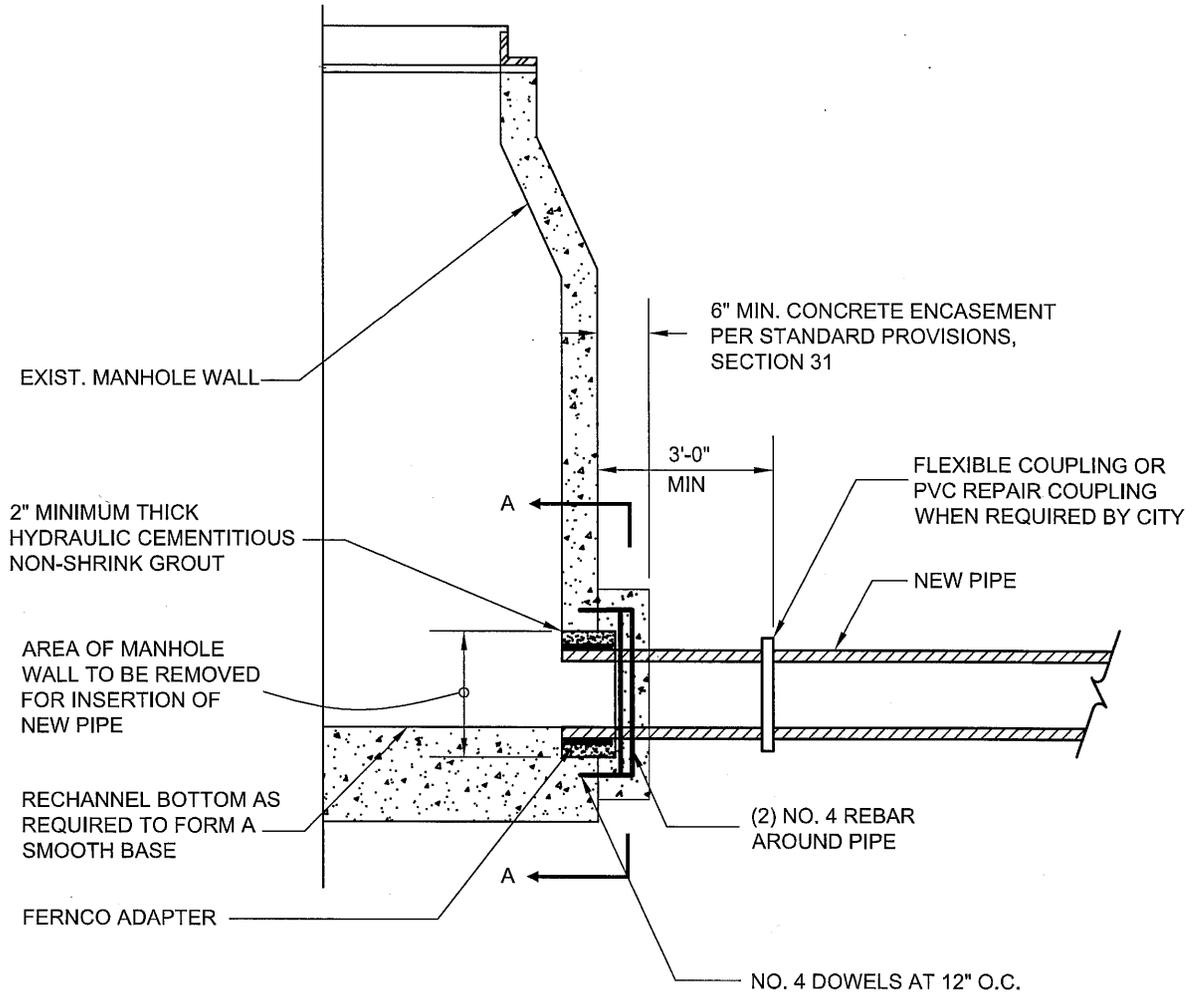
1. LAY PIPE THRU BOTTOM OF MANHOLES. AFTER CONCRETE IN BASE HAS SET, REMOVE PORTION OF PIPE INDICATED WITH DASHED LINES.
2. INSTALL RAM-NEK JOINT TAPE OR EQUAL AT ALL JOINTS.
3. MORTAR ALL JOINTS WITH A SMOOTH FINISH.

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APPROVED BY: <i>Jacqueline C. Solomon</i> ASSISTANT PUBLIC WORKS DIRECTOR 08-11-16 DATE 57093 R.C.E. NO.		

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SANITARY SEWER MANHOLE
FOR 36" AND SMALLER DIAMETER PIPES

FILE NO. C-1



NOTE:

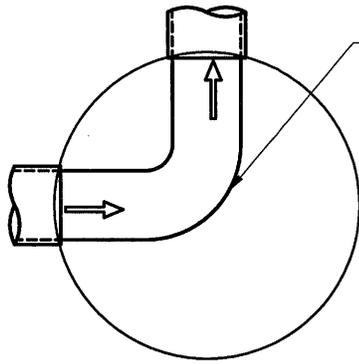
1. NEW PIPE INVERT SHALL BE FLUSHED WITH BASE OF MANHOLE.
2. MAKE SMOOTH GROUT FINISH AROUND PIPE END AND INTERIOR WALL. GROUT END OF DOWELS THAT PENETRATE MANHOLE INTERIOR.

Revision		Date		Approved	
Drawn: HN		Date: 11-22-13		Checked: LA	
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01-08-14		57093		57093	
DATE		EXP.		R.C.E. NO.	

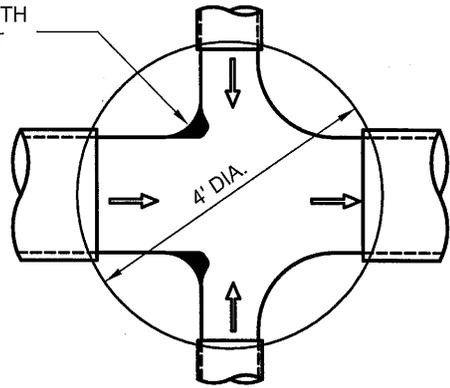
CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

NEW PIPE CONNECTION TO
EXISTING MANHOLE

FILE NO. C-2



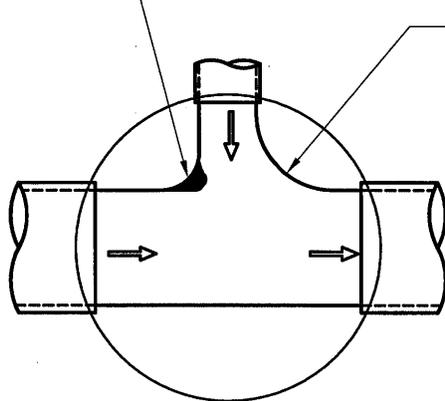
TYPICAL CURVED MANHOLE



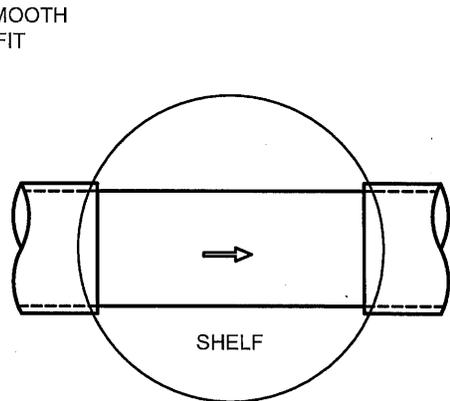
TYPICAL MANHOLE WITH 2 BRANCHES

NOTE:
 THE TOP HALF OF THE PIPE SHALL BE REMOVED TO THE CONTOUR OF THE INSIDE OF MANHOLE & THE BROKEN EDGES SHALL BE PLASTERED SMOOTH WITH CEMENT GROUT TYPICAL FOR ALL MANHOLE AS SPECIFIED.

CHANNELIZE IN DIRECTION OF FLOW (DO NOT INTRUDE MORE THAN 20% OF PIPE DIAMETER) (TYP)



TYPICAL MANHOLE WITH 1 BRANCH



TYPICAL STRAIGHT THROUGH MANHOLE

Revision	Date	Approved
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01-08-14 DATE	12-31-2015 EXP	57093 R.C.E. NO.

CITY OF MOUNTAIN VIEW
 PUBLIC WORKS DEPARTMENT
 STANDARD DETAIL

SANITARY SEWER
 MANHOLE SECTIONS

FILE NO. C-3

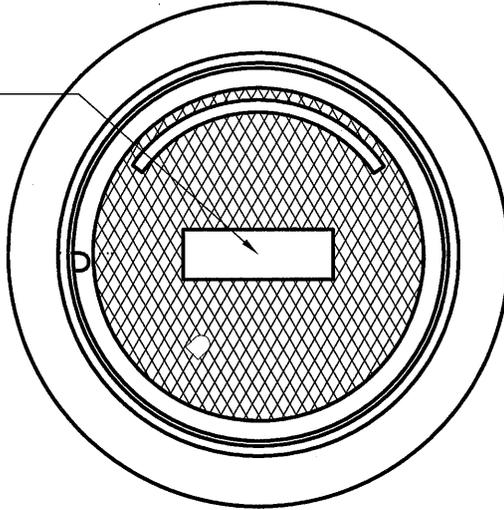
FOR MANHOLES IN PUBLIC RIGHT-OF-WAY
OR PUBLIC EASEMENT:

CITY OF
MOUNTAIN VIEW
SANITARY SEWER

OR

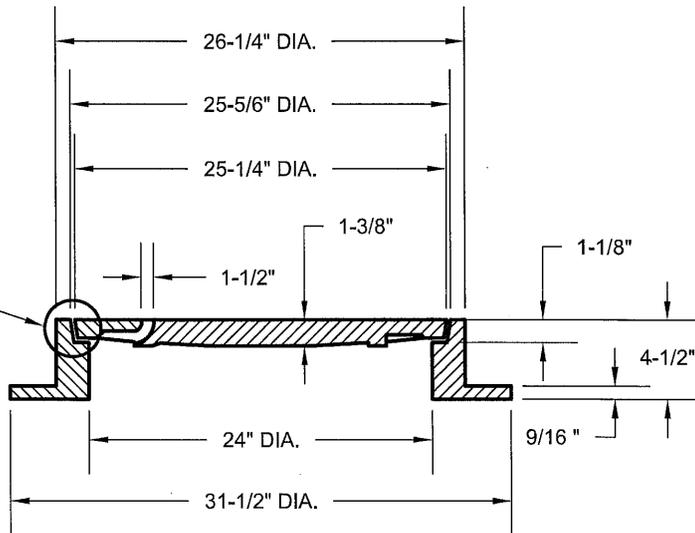
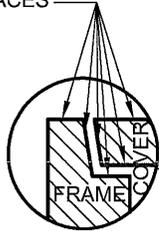
FOR MANHOLES IN OTHER LOCATIONS:

SANITARY SEWER



PLAN - FRAME & COVER

MACHINED SURFACES



SECTION - FRAME & COVER

NOTES:

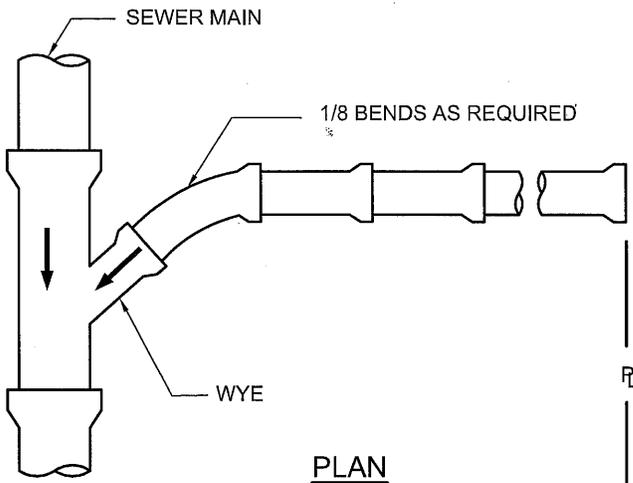
1. WHEN THERE IS A NEED TO RAISE MANHOLE COVERS TO MEET NEW GRADE, ONLY ONE ADDITIONAL MANHOLE RING MAY BE ADDED.
2. FRAME AND COVER SHALL BE PHOENIX IRON WORKS #P-1090 OR APPROVED EQUAL.

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01-08-14 DATE	12-31-15 EXP.	57093 R.C.E. NO.

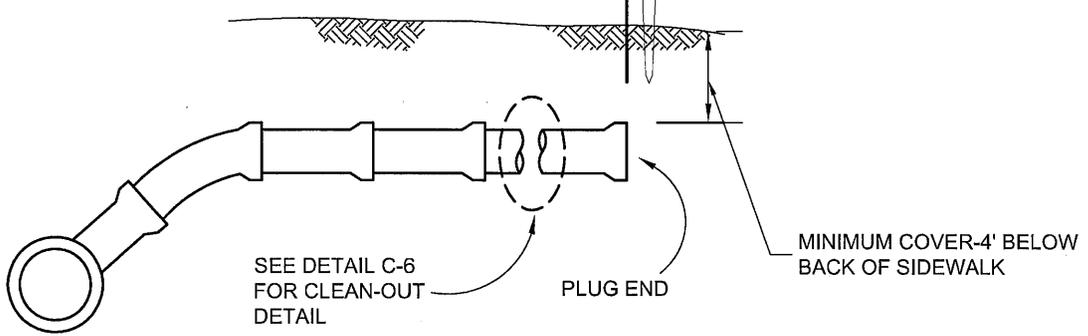
CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SANITARY SEWER MANHOLE
FRAME & COVER

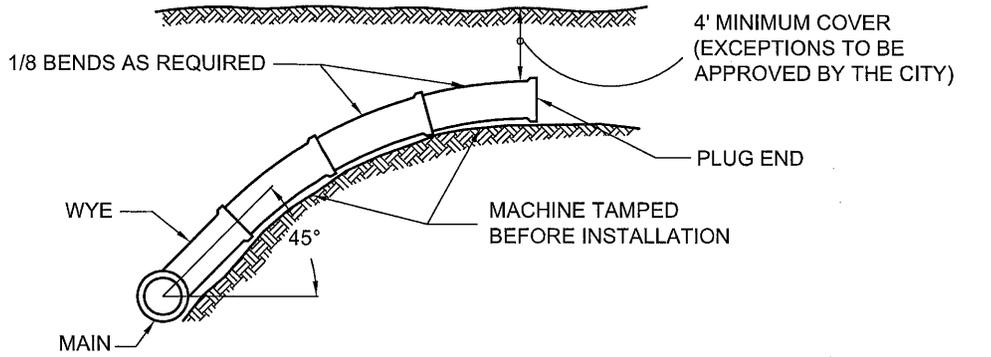
FILE NO. C-4



PLAN



ELEVATION



DEEP SEWER RISER

DEEP SEWER RISER SHALL BE CONSTRUCTED WHEN DEPTH OR SEWER FLOW LINE EXCEEDS 10' BELOW CROWN OF STREET.

NOTES:

1. PVC (SDR 26), HDPE (SDR17), OR APPROVED EQUAL.
2. STAMP "S" IN CURB FACE TO SHOW LOCATION OF LATERAL.
IN LOCATIONS WHERE THE CURB CAN NOT BE STAMPED, A 2" x 2" x 3' REDWOOD STAKE SHALL BE SET 6" ABOVE GROUND IF PROJECTION IS NOT DANGEROUS OR OBJECTIONABLE.
3. MINIMUM SLOPE OF LATERAL SHALL BE 1/4" PER 12" OR 2%.

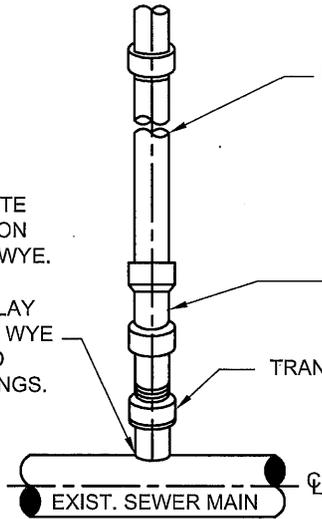
Revision	Date	Approved
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01-08-14 DATE	02-31-15 EXP	57093 R.C.E. NO.

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

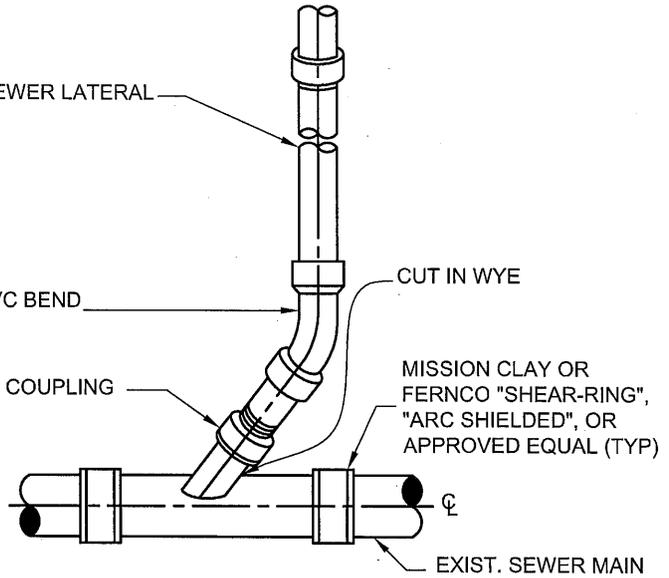
SEWER LATERAL AND
DEEP SEWER RISER

FILE NO. C-5

USE TAP TITE CONNECTION TO CUT IN WYE. OR MISSION CLAY INSERTION WYE WITH BAND SEAL FITTINGS.



DETAIL A:
NEW LATERAL INTO EXIST. SEWER MAIN



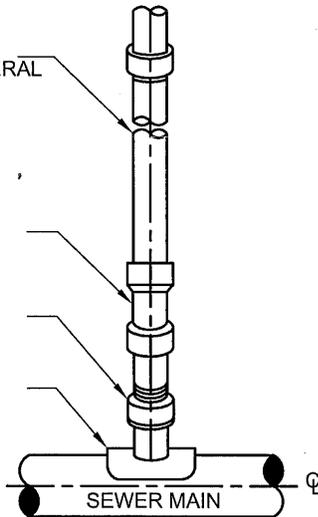
DETAIL B:
NEW LATERAL INTO EXIST. SEWER MAIN

NEW HDPE SEWER LATERAL

1/8 PVC BEND

TRANSITION COUPLING

HEAT FUSED SADDLE



DETAIL C:
NEW HDPE LATERAL INTO HDPE SEWER MAIN

NOTES:

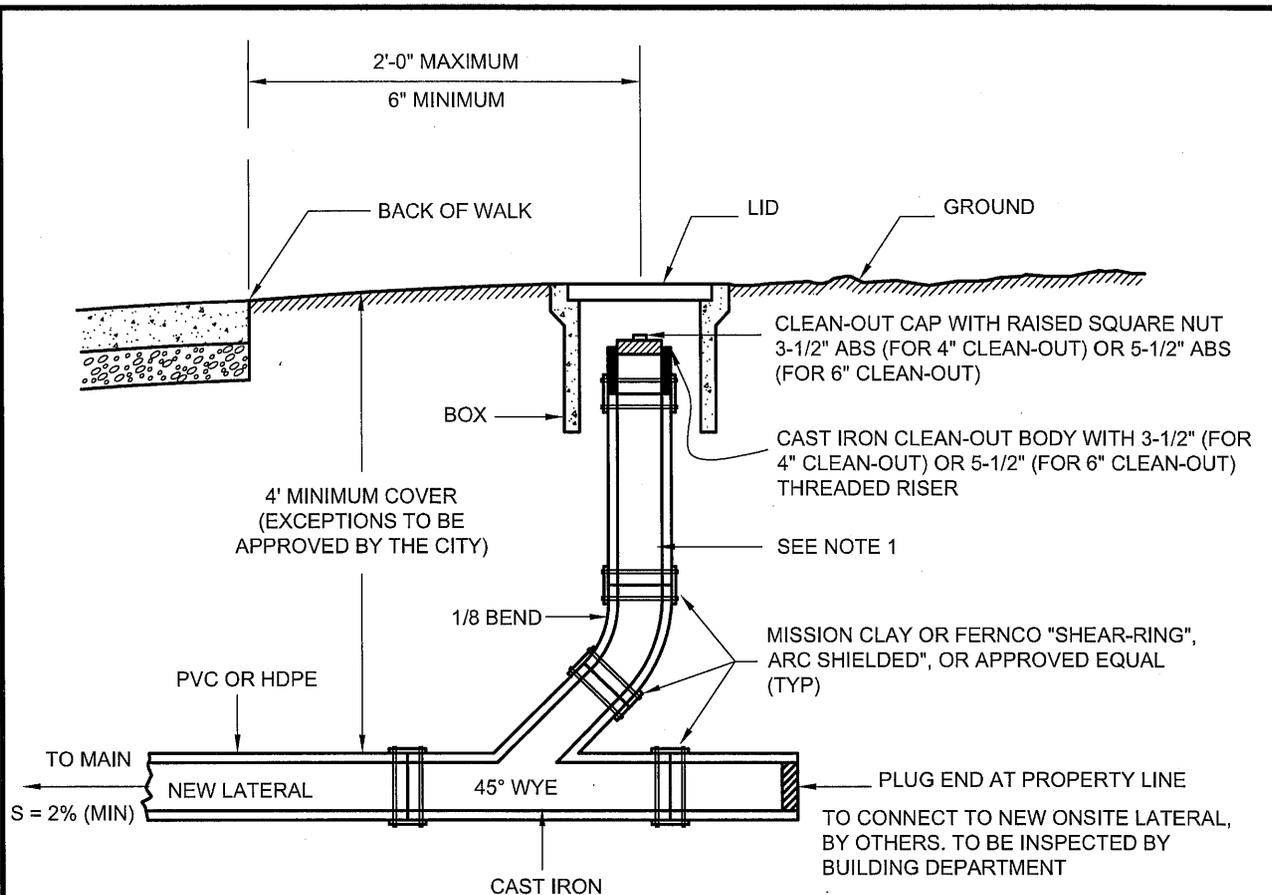
1. ONLY NEW HDPE LATERAL TO HDPE MAIN IS FUSED.
2. USE TAPTITE CONNECTIONS FOR NEW < 8" Ø LATERALS TO EXIST. MAIN.
3. WYE CONNECTION CAN BE USED FOR EXIST SEWER MAIN ≤ 15" Ø OR UPON ENGINEERS APPROVAL.

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CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SEWER LATERAL CONNECTIONS
TO SEWER MAINS

FILE NO. C-6



NOTES:

1. ALL NEW PIPING SHALL BE PVC (SDR 26), HDPE (SDR 17), OR APPROVED EQUAL UNLESS OTHERWISE NOTED. PIPE TO BE SAME I.D. AND MATERIAL AS LATERAL.
2. WHERE THERE ARE NO FRONTAGE IMPROVEMENTS, INSTALL CLEAN-OUT AT PROPERTY LINE.
3. ALL CLEAN-OUT BOXES SHALL BE CHRISTY CONCRETE PRODUCTS MANUFACTURED BY OLDCASTLE PRECAST, INC. WITH THE FOLLOWING MODEL NUMBERS:

	4" RISER		6" RISER	
	NON-TRAFFIC	TRAFFIC	NON-TRAFFIC	TRAFFIC
BOX	F08	G05T	G05T	G05T
LID	F08C	G05C	G05C	G05C

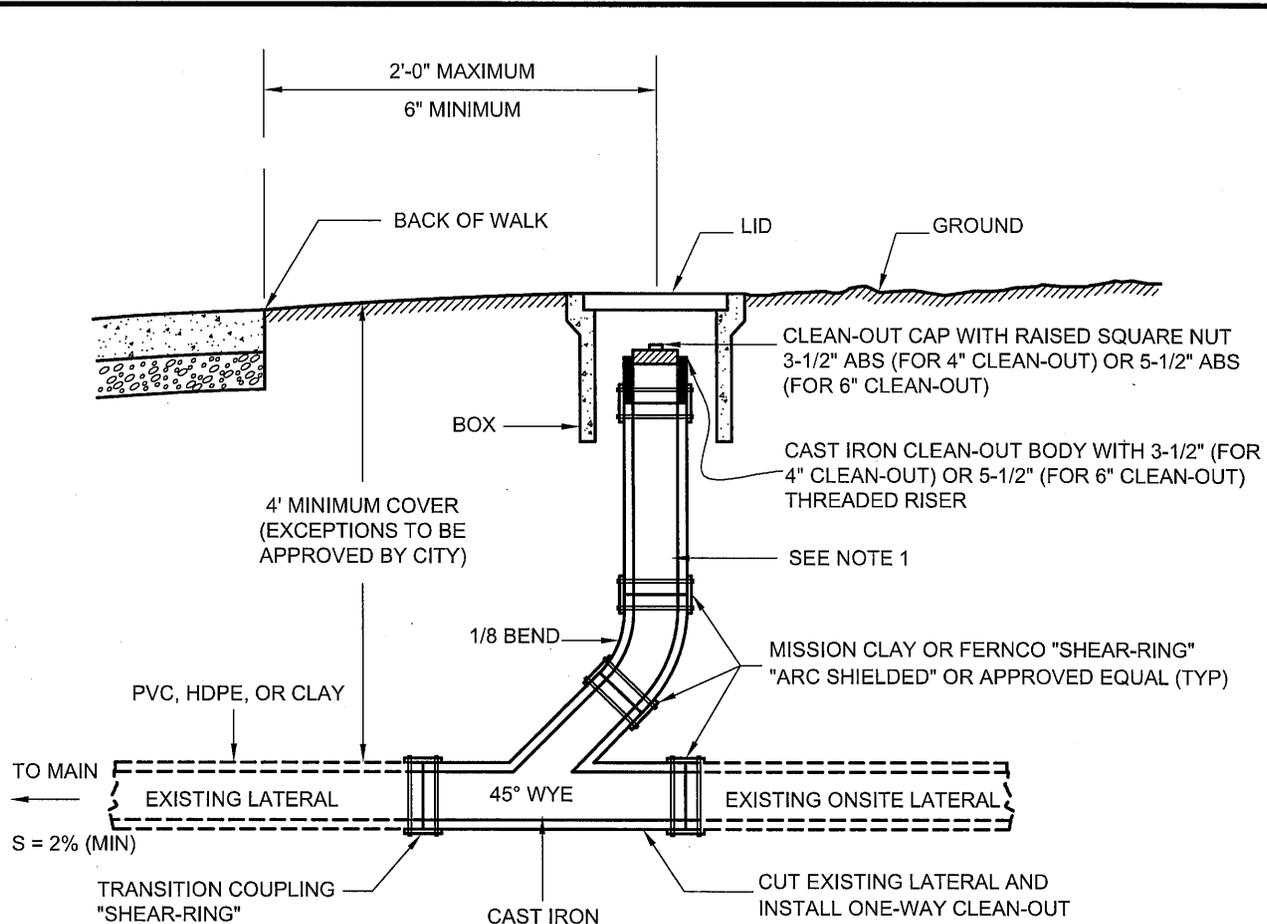
4. LIDS SHALL BE MARKED "SEWER".
5. STAMP OR GRIND FACE OF CURB WITH "S" WHERE LATERAL PASSES UNDER CURB, IF NOT PRESENT.
6. PLUG END AT PROPERTY LINE IF THERE IS NO ON-SITE LATERAL.
7. 1/8 BEND MAY BE PART OF 45° WYE IF APPROVED BY CITY.

Revision		Date		Approved	
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APPROVED BY: <i>Jacqueline CA Solomon</i> No. 57093 ASSISTANT PUBLIC WORKS DIRECTOR					
01-08-14	02-31-15	57093			
DATE	EXP.	R.C.E. NO.			

CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SEWER LATERAL CLEAN-OUT
NEW
4" AND 6" LATERALS

FILE NO. C-7



NOTES:

1. ALL NEW PIPING SHALL BE PVC (SDR 26), HDPE (SDR 17), OR APPROVED EQUAL UNLESS OTHERWISE NOTED. PIPE TO BE SAME I.D. AND MATERIAL AS LATERAL. CLEAN-OUT SIZE SHALL MATCH DOWN STREAM LATERAL.
2. WHERE THERE ARE NO FRONTAGE IMPROVEMENTS, INSTALL CLEAN-OUT AT PROPERTY LINE.
3. ALL CLEAN-OUT BOXES SHALL BE CHRISTY CONCRETE PRODUCTS MANUFACTURED BY OLDCASTLE PRECAST, INC. WITH THE FOLLOWING MODEL NUMBERS:

	4" RISER		6" RISER	
	NON-TRAFFIC	TRAFFIC	NON-TRAFFIC	TRAFFIC
BOX	F08	G05T	G05T	G05T
LID	F08C	G05C	G05C	G05C

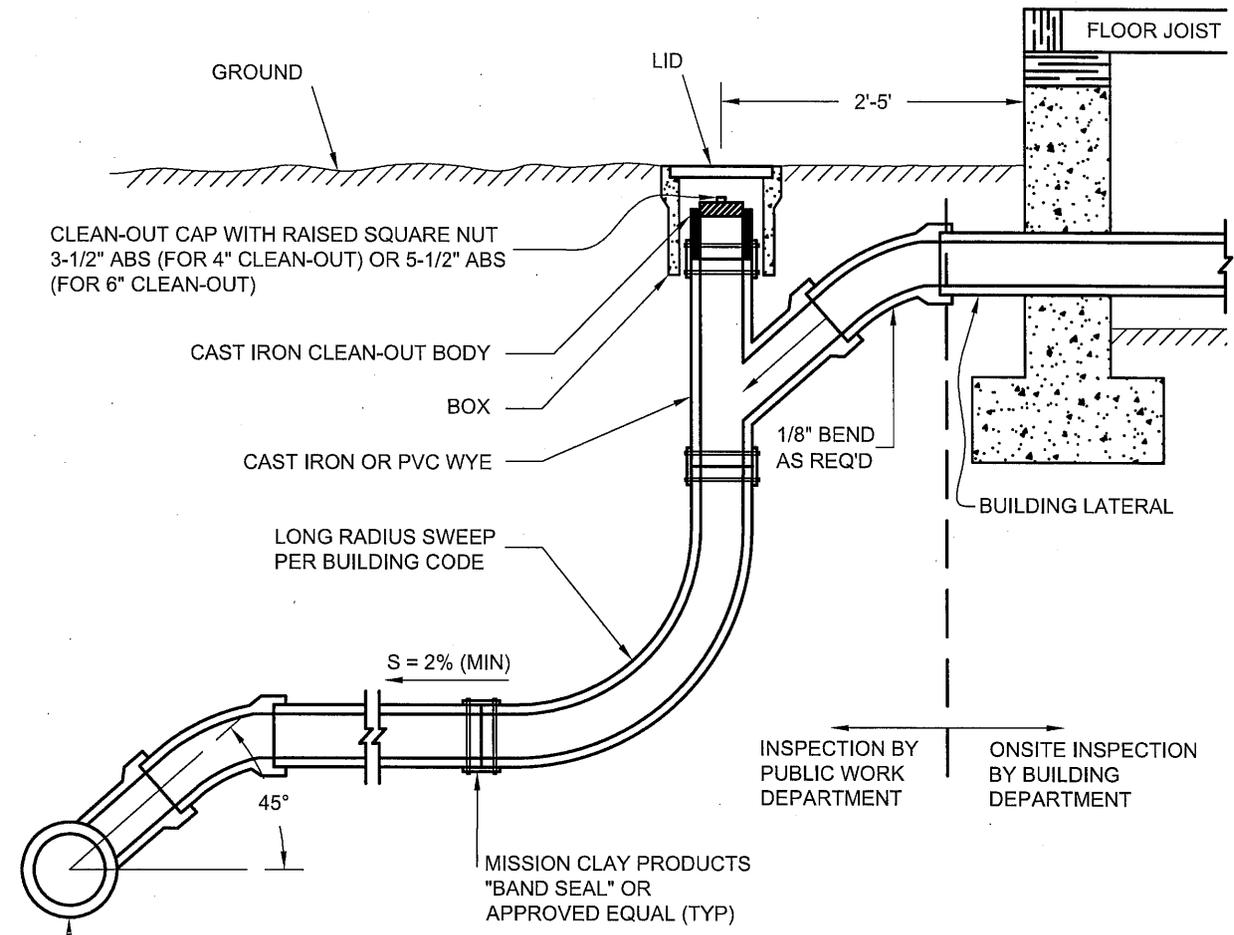
4. LIDS SHALL BE MARKED "SEWER".
5. STAMP OR GRIND FACE OF CURB WITH "S" WHERE LATERAL PASSES UNDER CURB, IF NOT PRESENT.
6. 1/8 BEND MAY BE PART OF 45° WYE IF APPROVED BY CITY.

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CITY OF MOUNTAIN VIEW
PUBLIC WORKS DEPARTMENT
STANDARD DETAIL

SEWER LATERAL CLEAN-OUT
EXISTING
4" AND 6" LATERALS

FILE NO. C-8



NOTES:

1. DETAIL APPLIES TO TOWNHOUSE TYPE CONDOMINIUMS AND COMMON GREEN DEVELOPMENTS WITH PRIVATE SEWERS.
2. ALL CLEAN-OUT BOXES SHALL BE CHRISTY CONCRETE PRODUCTS MANUFACTURED BY OLDCASTLE PRECAST, INC. WITH THE FOLLOWING MODEL NUMBERS:

	4" RISER		6" RISER	
	NON-TRAFFIC	TRAFFIC	NON-TRAFFIC	TRAFFIC
BOX	F08	G05T	G05T	G05T
LID	F08R	G05C	G05C	G05C

3. LIDS SHALL BE MARKED "SEWER"
4. STAMP OR GRIND FACE OR TOP OF CURB WITH "S" WHERE LATERAL PASSES UNDER CURB, IF NOT PRESENT.

Revision _____ Date _____ Approved _____

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Checked: LA Scale: NTS

APPROVED BY: No. 57093
Jacqueline C. Solomon
 ASSISTANT PUBLIC WORKS DIRECTOR

01-08-14 DATE 02-31-15 EXP 57093 R.C.E. NO.

CITY OF MOUNTAIN VIEW
 PUBLIC WORKS DEPARTMENT
 STANDARD DETAIL

SEWER SERVICE CONNECTION
 FOR COMMON GREEN DEVELOPMENTS
 4" AND 6" LATERALS

FILE NO. C-9