

SUPPLIER:

CALSTEAM, BURLINGAME
 ROBERTS & BRUNE, REDWOOD CITY
 GROENIGER & CO., HAYWARD

S:\A Public Works Directory\STANDARDS\Drawings\Sanitary Sewer\SS1_Lateral Connection_2013-08-19.dwg

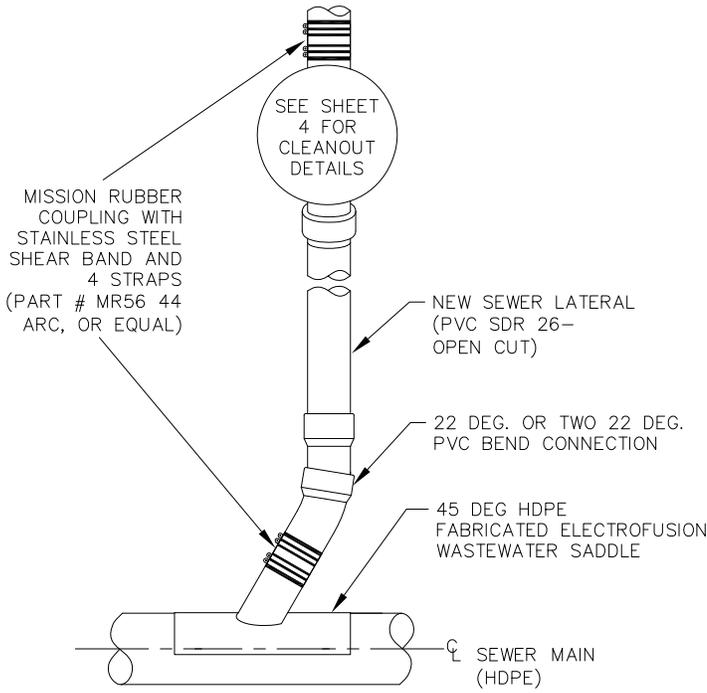


**SANITARY SEWER CLEANOUT
 LATERAL CONNECTION**

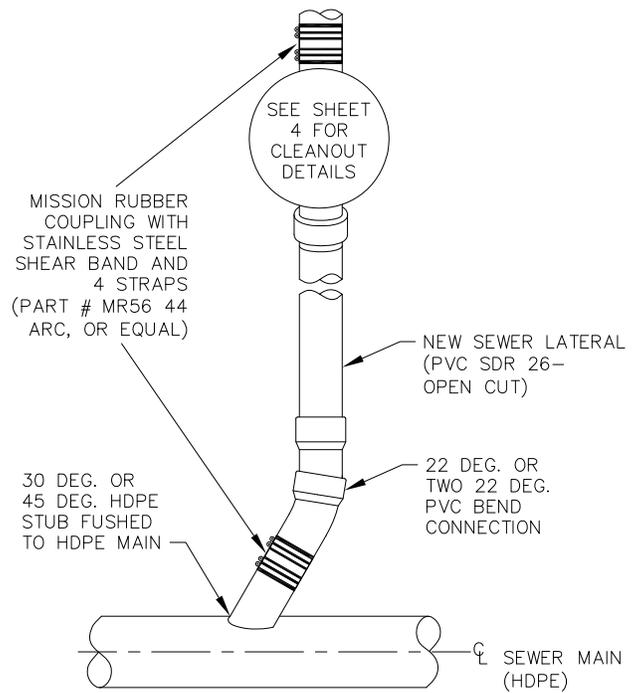
DEPARTMENT OF PUBLIC WORKS

APPROVED BY
 DATE
 10/03/2006

DRAWING NO.
SS-1
 (1 of 6)

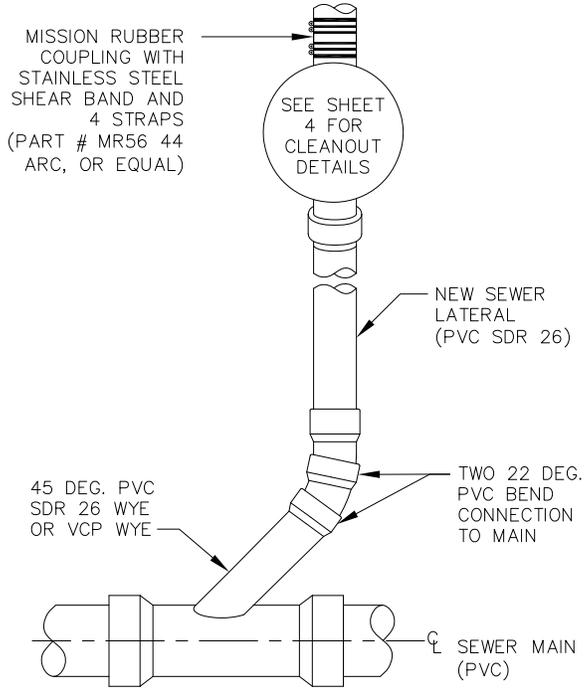


NEW PVC LATERAL*
INTO HDPE MAIN
PLAN VIEW



NEW PVC LATERAL
INTO HDPE MAIN
PLAN VIEW

* IF APPROVED BY THE CITY IN WRITING



NEW PVC LATERAL
INTO VCP/PVC MAIN
PLAN VIEW



**4" OR 6" PVC SANITARY SEWER LATERAL
CONNECTION INTO SANITARY SEWER MAIN**

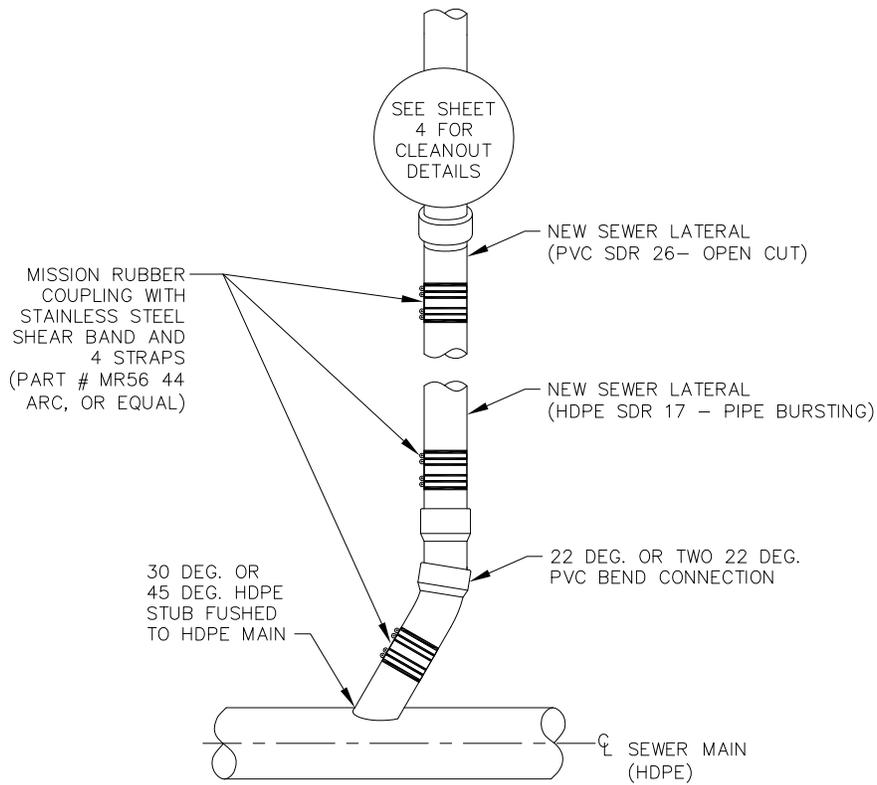
DEPARTMENT OF PUBLIC WORKS

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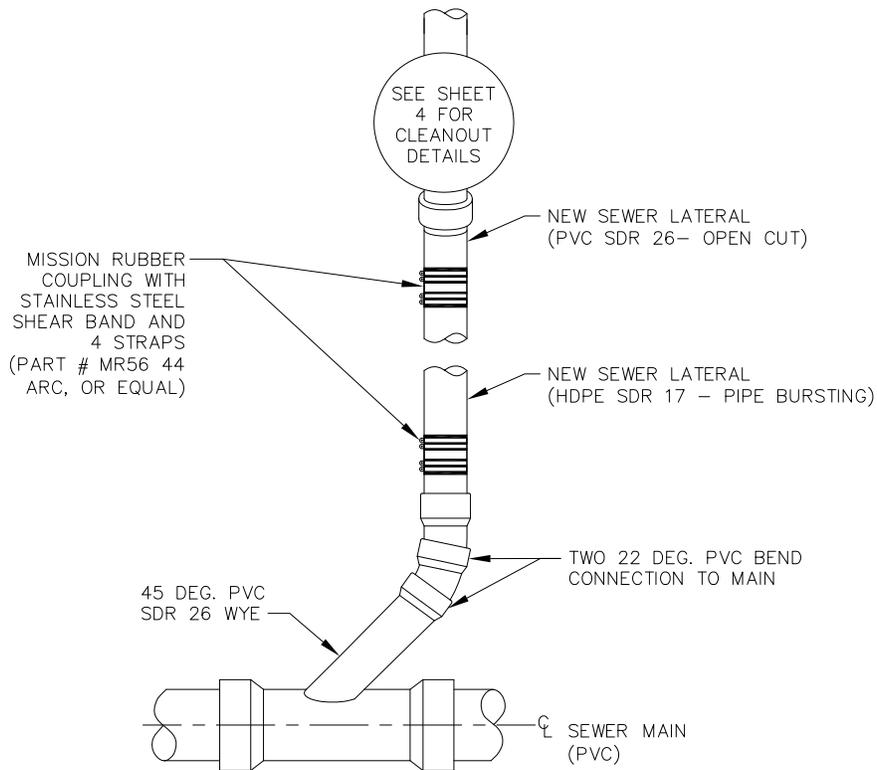
DATE
5/12/2011

DRAWING
NO.

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NEW HDPE LATERAL
INTO HDPE MAIN
PLAN VIEW



NEW HDPE LATERAL
INTO PVC MAIN
PLAN VIEW



**4" OR 6" HDPE SANITARY SEWER LATERAL
CONNECTION INTO SANITARY SEWER MAIN**

DEPARTMENT OF PUBLIC WORKS

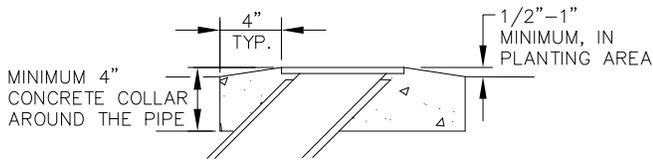
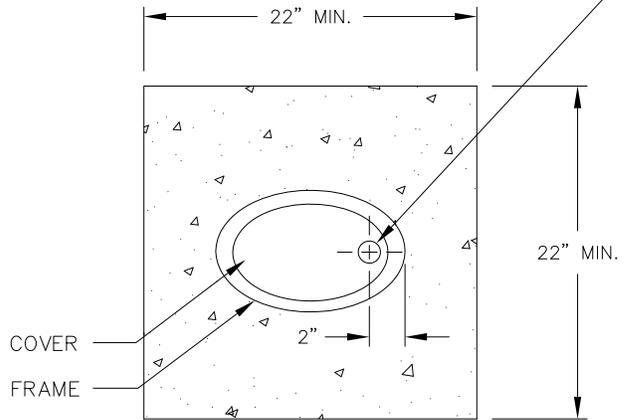
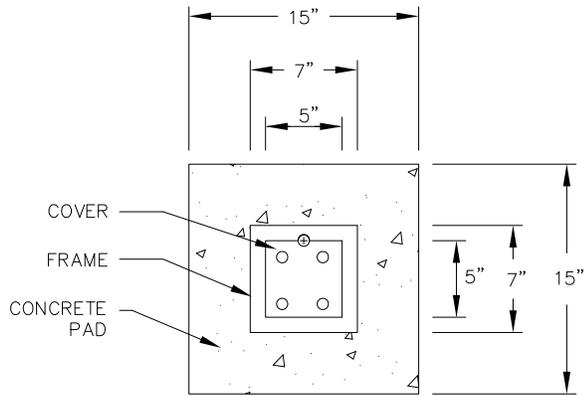
APPROVED BY

DATE
5/12/2011

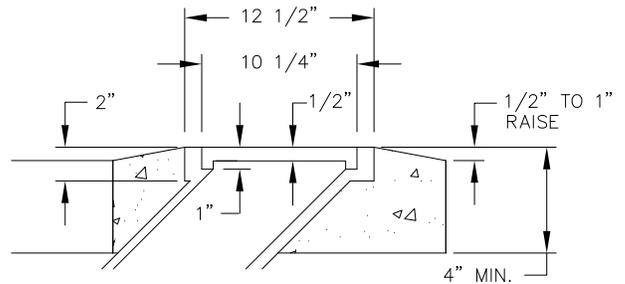
DRAWING
NO.

SS-1
(3 of 6)

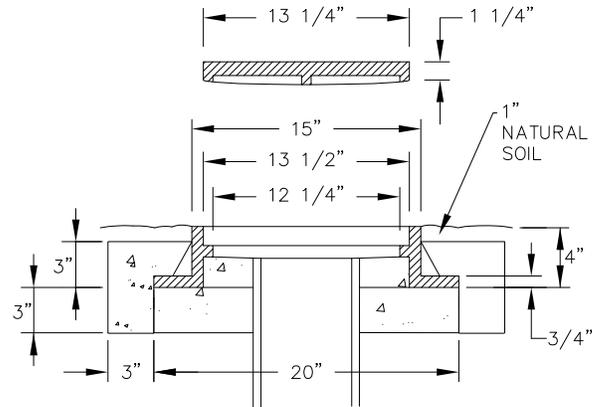
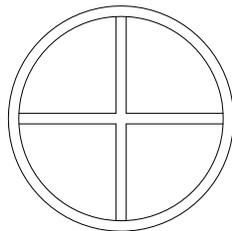
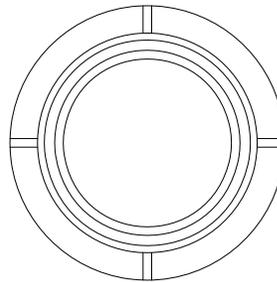
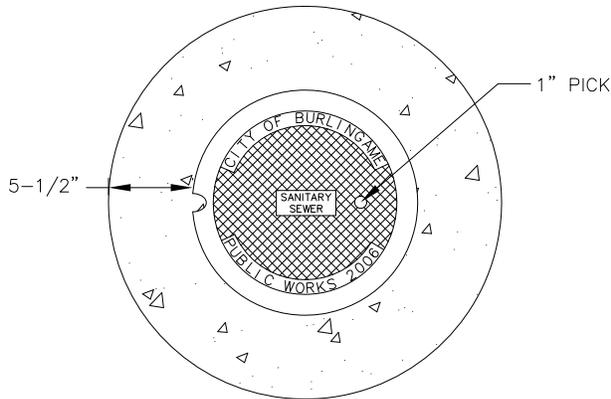
DRILL $\frac{13}{32}$ " DIA. AND C'SINK THRU COVER ONLY $\frac{5}{8}$ " TAP
 DRILL $\times 1\frac{1}{4}$ " DEEP, $\frac{7}{8}$ "-16 NC-3 $\times 1$ " DEEP (FRAME)
 $\frac{5}{16}$ "-16 nc-3 $\times 1$ " FH BRASS CAP SCR. 1 REQ.



4" FRAME & COVER
 LATERAL CONNECTION AT 45°
 N.T.S.



6" FRAME & COVER
 LATERAL CONNECTION AT 45°
 N.T.S.



6" FRAME & COVER
 VERTICAL RAISER ONLY
 N.T.S.

SUPPLIER:

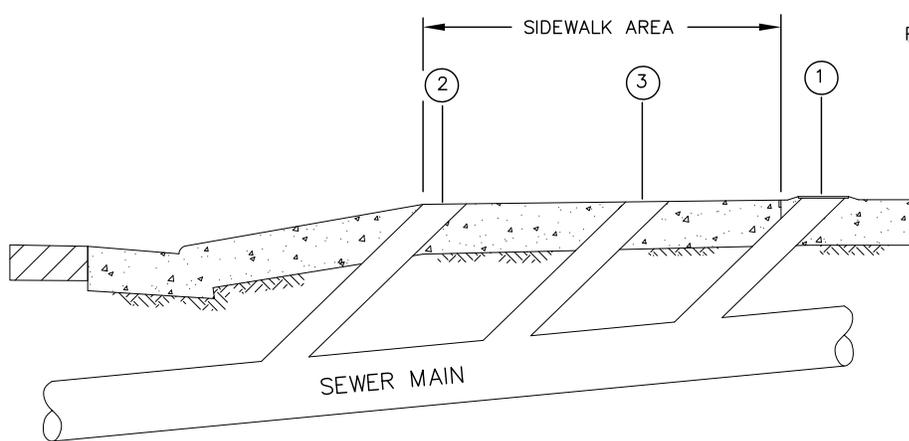
CALSTEAM, BURLINGAME
 ROBERTS & BRUNE, REDWOOD CITY
 GROENIGER & CO., HAYWARD



**STANDARD 4" OR 6"
 FRAME AND COVER**
 DEPARTMENT OF PUBLIC WORKS

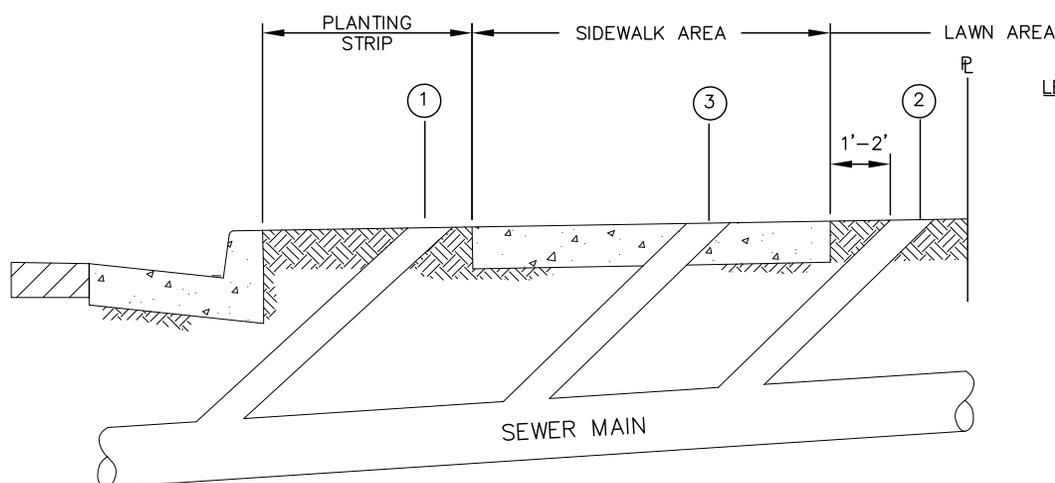
APPROVED BY
 DATE
 8/17/2006

DRAWING NO.
SS-1
 (4 of 6)



- LEGEND:**
- ① = PREFERRED
 - ② = NEXT CHOICE
 - ③ = THIRD CHOICE

CLEAN-OUT LOCATION AT DRIVEWAY AREA
N.T.S.



- LEGEND:**
- ① = PREFERRED
 - ② = NEXT CHOICE
 - ③ = THIRD CHOICE

CLEAN-OUT LOCATION AT SIDEWALK AREA
N.T.S.

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**CLEANOUT PLACEMENT
GUIDELINES**

DEPARTMENT OF PUBLIC WORKS

APPROVED BY

DATE

08/19/2013

DRAWING NO.

SS-1

(5 of 6)

REQUIREMENTS FOR CONSTRUCTION OF
BUILDING SEWERS IN PUBLIC RIGHT-OF-WAY

1. ALL NEW RESIDENTIAL, APARTMENT, INDUSTRIAL AND COMMERCIAL BUILDINGS SHALL REQUIRE A NEW SEWER LATERAL. A MINIMUM 4 INCH (4") LATERAL SHALL BE INSTALLED FOR 2 OR LESS APARTMENT UNITS AND A 6 INCH (6") LATERAL FOR MORE THAN 2 APARTMENT UNITS. ACTUAL SIZE DEPENDS ON NUMBER OF CONNECTED "FIXTURE UNITS" IN BUILDINGS. INDUSTRIAL AND COMMERCIAL BUILDINGS SHALL REQUIRE A MINIMUM 6 INCH (6") LATERAL.
2. THE LATERAL, INCLUDING CONNECTION TO THE MAIN, RISER AND WYE, SHALL BE CAST IRON, PLASTIC SDR 26, HIGH DENSITY POLYETHYLENE (HDPE), C-900, OR VITRIFIED CLAY PIPE IN CONFORMANCE WITH UNIFORM PLUMBING CODE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. MINIMUM SLOPE OF LATERAL SHALL BE 1/4 INCH (1/4") PER FOOT. OVER 3/8" IS NOT RECOMMENDED BECAUSE LIQUIDS TEND TO DRAIN AWAY, LEAVING SOLIDS TO CLOG THE PIPE.
4. A WYE CONNECTION MAY BE USED AT ANY DEPTH AND TO ANY SIZE OF MAIN. A SADDLE CONNECTION MAY BE USED ONLY AT A DEPTH OF 6 FEET (6') OR MORE AND TO A MAIN WHICH IS LARGER IN SIZE THAN THE LATERAL ITSELF.
5. A MANUFACTURER'S COUPLING WITH STAINLESS STEEL SHEAR BAND AND FOUR STRIPS SHALL BE USED FOR ALL JOINT CONNECTIONS. NO CONCRETE SHALL BE USED FOR JOINT CONNECTION.
6. REGARDLESS OF THE PIPE MATERIAL USED, THE BUILDING SEWER PIPE SHALL BE LAID ON A CONTINUOUS, FIRM BED THROUGHOUT ITS ENTIRE LENGTH.
7. THE DEPARTMENT OF PUBLIC WORKS SHALL INSPECT ALL SEWER CONNECTIONS BEFORE BACKFILLING. ALL BACKFILL MATERIALS SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED TO A MINIMUM OF 90% IN THE PLANTING STRIP AREAS AND 95% IN THE STREETS. TWENTY FOUR (24) HOURS NOTICE SHALL BE GIVEN FOR AN INSPECTION.
8. THE CLEANOUT SHALL BE LOCATED ADJACENT TO AND APPROXIMATELY 2 FEET TO 4 FEET (2' - 4') BACK FROM THE FACE OF THE CURB OR SHOULDER ALONG STREETS WITHIN EASEMENT LINES ALONG EASEMENTS UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE CLEANOUT IN PLANTING AREA SHALL BE SET 1 INCH TO 2 INCHES (1" - 2") ABOVE THE ADJACENT GRADE OR CURB GRADE. THE PAD AND SIDEWALK SHALL BE RAMPED FROM 6 INCHES (6") TO THE CLEANOUT LEVEL IN SIDEWALK AREA OR FROM 12 INCHES (12") OR MORE TO THE CLEANOUT LEVEL IN PLANTING AREA. PONDING OVER THE CLEANOUT IS PROHIBITED. CLEANOUT IN EASEMENT AREA SHALL BE 18 INCHES TO 24 INCHES (18" - 24") FROM FENCE. SEE STANDARD DRAWING SS-1 (5 OF 6) FOR CLEANOUT PLACEMENT GUIDELINES.
9. ON WORK IN STREETS, PAVEMENT SHALL BE SAW CUT AND REPLACED TO THE REQUIREMENTS OF THE ENGINEER BUT IN NO CASE SHALL BE LESS THAN 3 INCHES (3") A.C. ON 8 INCHES (8") CLASS 2 A.B.. EXCAVATION SHALL BE ACCOMPLISHED SO THAT TRENCH EDGES ARE STRAIGHT AND PARALLEL LINES AND NOT JAGGED BEFORE PAVEMENT RESTORATION. PAVEMENT SECTION SHALL BE REPLACED TO AT LEAST 6 INCHES (6") OUTSIDE OF ANY EXCAVATION AREA.
10. ALL TRENCHES OVER 5 FEET (5') IN DEPTH SHALL BE SHORED OR SLOPED IN ACCORDANCE WITH O.S.H.A. REQUIREMENTS. O.S.H.A. PERMIT IS REQUIRED FOR ALL EXCAVATIONS OVER 5 FEET (5') IN DEPTH.
11. LATERAL LINES SHALL HAVE A MINIMUM COVER OF 18 INCHES (18") AND THE MAIN LINES SHALL HAVE A MINIMUM COVER OF 24 INCHES (24") IN PRIVATE PROPERTY. SEWER LATERALS IN STREET RIGHT-OF-WAY SHALL HAVE A 30 INCH (30") MINIMUM COVER.
12. ALL ABANDONED SEWER LATERALS SHALL HAVE THE WYES OR SADDLES REMOVED OFF THE MAIN.
13. ABANDONED BUILDING SEWER PIPE(S) (BUILDING TO STREET CLEANOUT) SHALL BE REMOVED, OR PROPERLY DISCONNECTED FROM THE BUILDING DRAIN AND THE CITY SEWER LATERAL AND PLUGGED AT BOTH ENDS WITH CONCRETE OR OTHER APPROVED MATERIALS/DEVICES. THE PLUG AT THE DOWNSTREAM (STREET) END OF THE BUILDING SEWER PIPE SHALL BE WITHIN 5 FEET OF THE PROPERLY LINE. CONTACT THE BUILDING OFFICIAL FOR LOCATION OF THE UPSTREAM END OF THE BUILDING SEWER. YOU MAY ALSO BE REQUIRED TO CAP THE UPSTREAM END OF THE CITY SEWER LATERAL (FROM THE SEWER MAIN) OR TO ENTIRELY REMOVE THIS LATERAL; CONTACT THE SEWER DEPARTMENT AT (650) 558-7674 FOR DETAILS. REMOVAL OR PLUGGING REQUIRED PERMITS, AND MUST BE INSPECTED AND APPROVED IN WRITING ON THE PERMITS BY THE CITY BUILDING AND PUBLIC WORKS INSPECTOR PRIOR TO BACKFILL.



**REQUIREMENTS FOR CONSTRUCTION OF BUILDING
SEWERS IN PUBLIC RIGHT-OF-WAY**

DEPARTMENT OF PUBLIC WORKS

APPROVED BY

DATE

08/19/2013

DRAWING
NO.

SS-1
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