

FRAME AND COVER SHALL BE ON DOWNSTREAM SIDE OF MANHOLE.

CIRCULAR P.C.C. COLLAR WITH FINISHED EDGES.

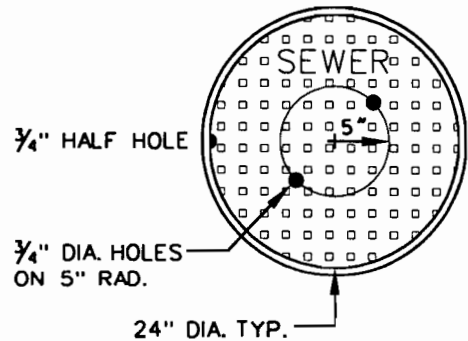
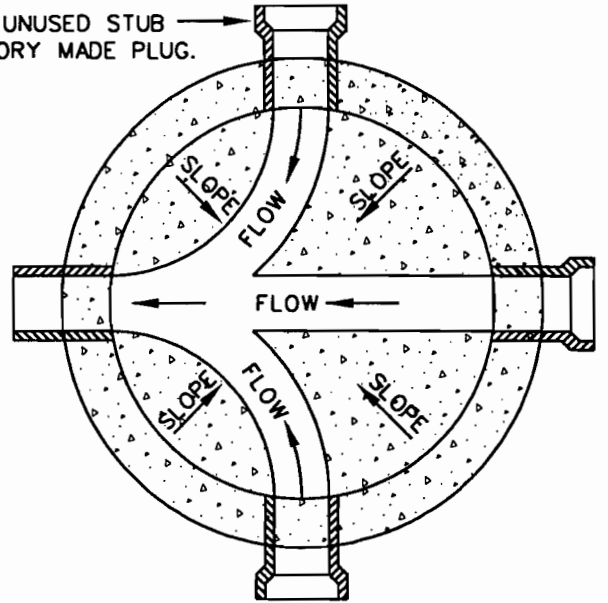
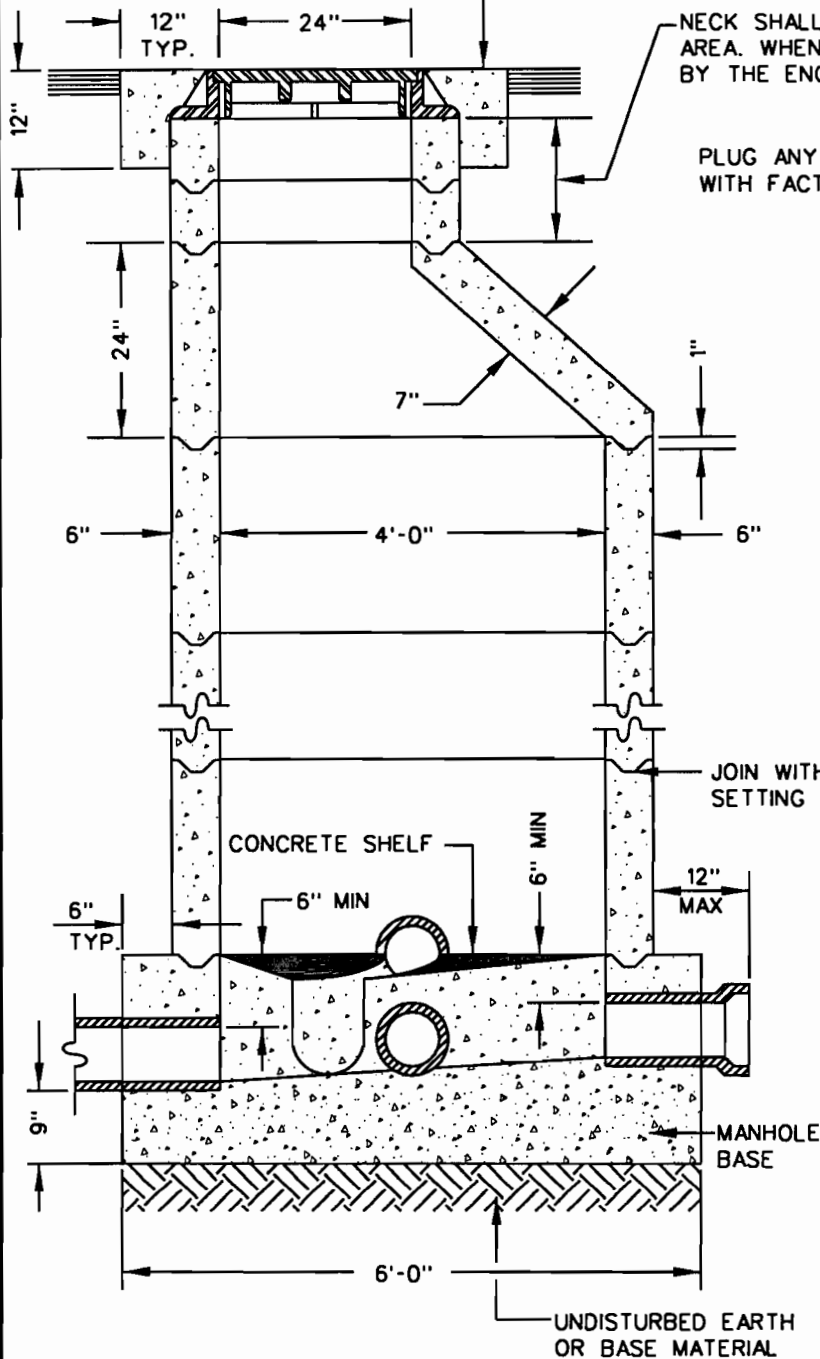
NECK SHALL BE MIN. 6" AND MAX. 24" HIGH WHEN IN PAVEMENT AREA. WHEN OUTSIDE PAVEMENT, NECK SHALL BE AS DIRECTED BY THE ENGINEER.

PLUG ANY UNUSED STUB WITH FACTORY MADE PLUG.

JOIN WITH 1/2" THICK QUICK SETTING GROUT, (TYP.)

ALHAMBRA FOUNDRY  
A-1270-C/R OR  
APPROVED EQUAL

DETAIL OF HOLES IN COVER



**NOTE:**  
1. FOR P.V.C. SEWER PIPES, INSTALL WATER STOP GASKETS.

SEE ADDITIONAL INFORMATION ON SHEET 2

APPROVED: *[Signature]* DATE: 8/10/09

CITY OF SANTA ANA  
PUBLIC WORKS AGENCY



DATE	REVISION
2/19/03	A.F. STEPS REMOVED
7/16/09	R.R. WATER STOP GASKET

SEWER MANHOLE

STD. PLAN  
NUMBER  
1201

**NOTES:**

1. MANHOLE FRAME AND COVER SHALL BE CAST IRON AND SHALL CONFORM TO A.S.T.M. A-48, CLASS 30. MANHOLE FRAME AND COVER SHALL BE ALHAMBRA FOUNDRY A-1270-C/R OR APPROVED EQUAL. MANHOLE COVER SHALL HAVE 2 PICK HOLES PER DETAIL ON SHEET 1.
2. THE IDENTIFYING WORD "SEWER" SHALL APPEAR ON ALL SANITARY SEWER MANHOLE COVERS.
3. ELEVATION OF THE COVER TO BE DETERMINED BY THE ENGINEER.
4. ALL CONCRETE SHALL BE 560-C-3250 PER STANDARD SPECIFICATIONS, (CURRENT EDITION).
5. BACKFILL MATERIAL TO SUBGRADE SHALL BE SAND, PLACED A MINIMUM OF 2 FEET LATERALLY AROUND STRUCTURE.
6. WHERE MANHOLE HAS 1 OR 2 INLETS AND 1 OUTLET, PLACE THE COVER DOWNSTREAM AND AWAY FROM PIPES.
7. THE TOP SURFACE OF THE SHELVES SHALL BE SLOPED DOWNWARD TOWARD THE CENTER OF MANHOLE AT THE RATE OF 1 INCH PER FOOT. THE HIGHEST ELEVATION OF THE SHELVES SHALL BE 6" MINIMUM ABOVE THE TOP OF PIPE OF THE MAIN SEWER LINE. CHANNELS SHALL HAVE A SMOOTH STEEL TROWEL FINISH.
8. MANHOLES SHALL BE PRECAST NON-REINFORCED CONCRETE EXCEPT THAT THE CONTRACTOR, AT HIS OPTION AND EXPENSE, MAY FURNISH REINFORCED PRECAST MANHOLES CONFORMING TO SECTION 70-1.02H OF THE STATE STANDARD SPECIFICATIONS, (CURRENT EDITION).
9. SOFFIT OF MAIN LINE BRANCHES AND LATERALS SHALL MATCH SOFFIT OF TRUNK SEWER.
10. RIGHT ANGLE TURN OF MANHOLE'S CHANNEL SHALL HAVE A MINIMUM DROP OF 0.20 FEET.
11. MAINTAIN THE SLOPE OF THE SEWER MAIN IN THE MANHOLES WITH A STRAIGHT THROUGH CHANNEL, IF NO INLET-OUTLET ELEVATIONS ARE SHOWN ON THE PLANS.



APPROVED: \_\_\_\_\_ DATE: 6/16/09

*[Handwritten Signature]*

CITY OF SANTA ANA  
PUBLIC WORKS AGENCY

DATE		REVISION
2/19/03	A.F.	STEPS REMOVED
7/16/09	R.R.	SPECIFY MH COVER

NOTES FOR SEWER MANHOLE

STD. PLAN NUMBER  
1201