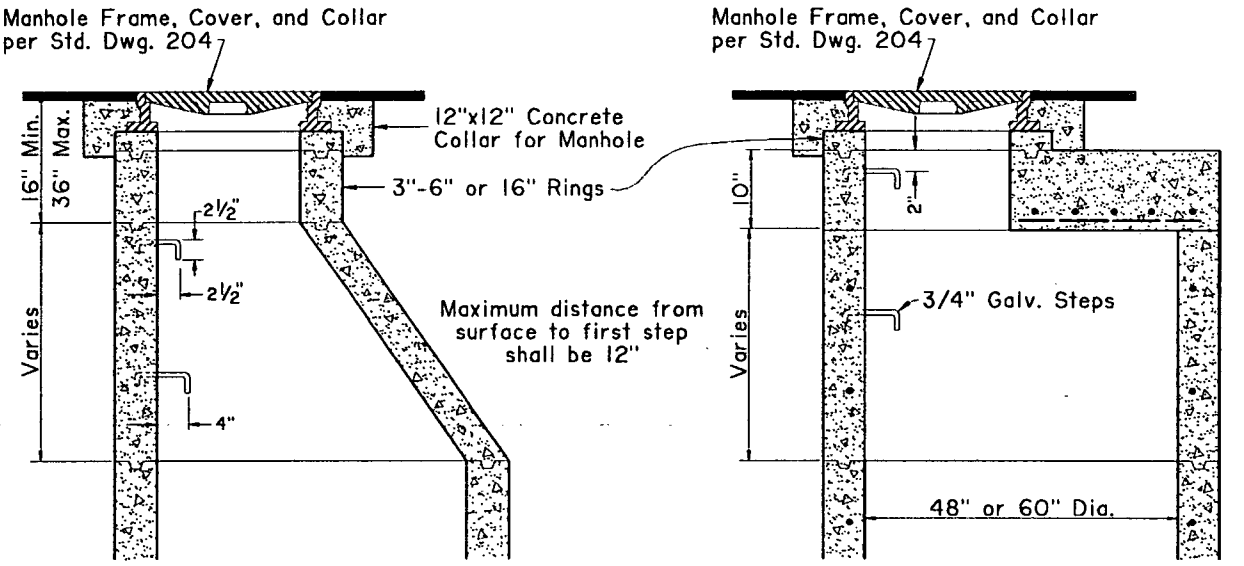
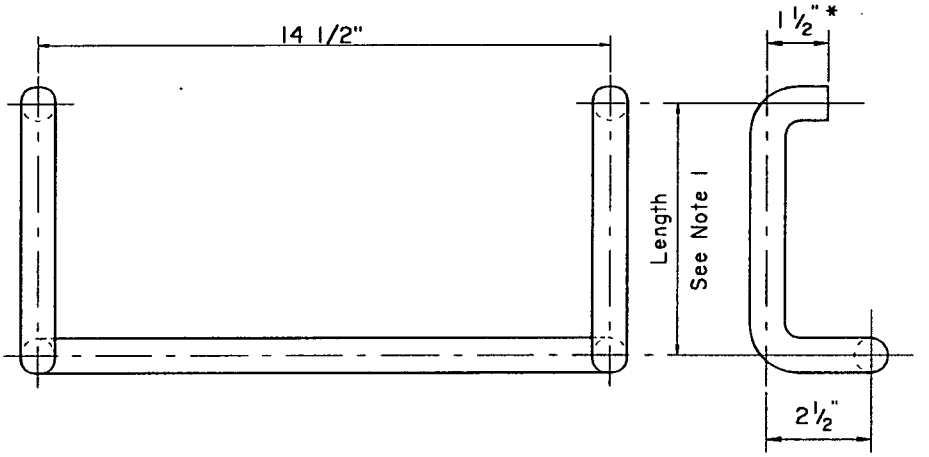
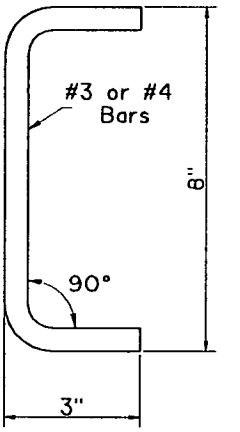


TYPICAL SECTION
Eccentric Manhole

TYPICAL SECTION
Flat Top Manhole



DETAIL OF STEP



DETAIL OF DOWEL

*1 1/2" Hook may be omitted on pre-cast structures where steps are epoxied in place.

NOTES

1. Steps 7" in length shall be used in 24" I.D. units.
   Steps 8" in length shall be used in 36" and 48" I.D. units.
   Steps 5 1/2" and 6 1/2" in length shall be used for the top steps.
2. Steps shall be 3/4"ø steel conforming to A.S.T.M. A575, A576, or A615, galvanized after fabrication in accordance with A.S.T.M. A123.
3. Steps - If H is 3'-6" or less, none required. If H is greater than 3'-6", the top step shall be located 6"-12" below the top of the manhole lid. The remaining steps shall be evenly spaced 12" to 17" with the bottom step a minimum of 7" to 12" above the floor. The top step shall project 2 1/2" from the wall. All other steps shall project 4" out from the wall. See Std. Dwg. 330 for step spacing in pre-cast structures.
4. Steps shall have a minimum 3" embedment.

DRAWN P.L.S. DATE 8/1/95 STD. NO. 331	**CITY OF FULLERTON** ENGINEERING DEPARTMENT **STORM DRAIN MANHOLE STEPS, RINGS, AND DETAILS** APPROVED Robert Hudson DIRECTOR OF ENGINEERING DATE 8/16/95	REVISED DATE