

NOTES

- I TABLE of values for F are on this Standard Drawing, Sheet 1.
- 2 CENTER OF MANHOLE SHAFT shall be located over center line of storm drain when diameter D_i is 48" or less, in which case place E bars symmetrically around shaft at 45° with center line.
- 3 LENGTH L shall be 5'-6"unless shown otherwise on improvement plan. At option of Contractor L may be increased or location of manhole shifted to meet pipe ends.
- 4-DETAIL M: When depth of manhole from street grade to top of box is less than 2'-10½" for paved streets or 3'-6" for unpaved streets, construct monolithic shaft as per Detail M. The Contractor shall have the option of constructing shaft as per Detail M for any depth of manhole. When diameter D₁ is 48" or less, center of shaft shall be located as per Note 2.
- 5- THICKNESS OF DECK shall vary when necessary to provide level pipe seat, but shall not be less than tabular values for F shown on this plan.
- 6- REINFORCING STEEL shall be round, deformed bars, 12" clear from face of concrete unless shown otherwise.

 Sizes and lengths are shown in table below.
- 7- CONCRETE shall be in accordance with the table of Concrete Specifications.
- 8- STEPS shall be \$\frac{2}{\tau}\text{round, galvanized steel and anchored not less than 6 inches in the walls of structure. Unless otherwise shown the spacing shall be 1'-5"on centers. The lowest step shall be not more than 2'-6" above the invert. (\text{Alhambra} \text{Fdy. A=3320 or equal approved by city.) 1 \text{A}
- 9- RINGS, REDUCER, AND PIPE for access shaft shall be seated in cementmortar and neatly pointed or wiped inside the shaft.
- 10- STATIONS of manholes shown on improvement plan apply at center of shaft. Elevations shown at stations refer to prolonged invert grade lines.
- 11 FLOOR of manhole shall be steel-troweled to springing line.
- 12-BODY of manhole shall be poured in one continuous operation, except that the Contractor shall have the option of placing at the springing line a construction joint with a longitudinal keyway.

	STEEL TABLE FOR MANHOLE - AX							
		D bars		E bars				
Diam D ₂	NaRea'd	Size	Length	No.Read.	Size	Length		
36"	6	No. 4	340"	4	No. 4	2'-9"		
39*	6	•	4-24	4		244		
42"	6	NO. 5	446*	4	•	3'-2"		
45"	6		4'-10"	4		3-5		
48*	6	•	5-1"	4	•	3-7"		
51"	6	•	5-5"	6	•	4-9"		
54"	6	•	5'-9"	6	•	5'-1"		
57"	6	•	6-1-	6		5'-6"		
60"	6	•	6'-4"	6	•	5-11		
63"	6	•	6-8" 6 "		•	6'-3"		
66"	6	•	7'-0"	8	•	6'-8"		
69"	6	•	7'-4"	8	•	6'-8"		
72*	6	•	7-7*	8	•	6'-8"		
78"	6	•	8-3-	8	•	6'-8'		
84"	6	•	8'-10"	10	•	6-8-		
90"	6	NO.6	9'-6"	10	•	6'-8"		
96"	6	•	10'-1"	10	•	6'-8"		

CONCRETE SPECIFICATIONS				
F	CONC. CLASS			
612"-712"	560 - C - 3250			
7% - 91/2	560 - C - 3250			
10" - 14"	560 - B - 3250			

D bars shall be spaced 3"o.c. E bars shall be spaced 4"o.c. Tie bars shall be No.3 spaced 18" o.c. or closer.

When L greater than 5-6" is specified on improvement plan, continue D bars at 6"o.c. Lengths shown in table are for longest bars. Where shorter bars are required, bend or cut to meet field requirements.

13 - COVER shall have letter D in center.

MARK		REVISIONS	APPR.	DATE	STANDARD DRAWING NO. 430 Sheet 2 of 2
<u>1</u>	Changed	approval Riverside Fdy to Alhambi	NER Muse	7.7.82	MANHOLE AX
		FLI LILLE BLIC WORKS DIRECTO			CITY OF RIVERSIDE PUBLIC WORKS DEPT ENGINEERING DIV.