



TABLE OF VALUES FOR "F"

D ₂	F	D ₂	F
36	6 1/2	78	11 1/2
39	7	84	12 1/2
42	7 1/2	90	13 1/2
45	8	96	14 1/2
48	8 1/2	102	15 1/2
51	9	108	16 1/2
54	9 1/2	114	17 1/2
57	10	120	18 1/2
60	10 1/2	126	19 1/2
63	11	132	20 1/2
66	11 1/2	138	21 1/2
69	12	144	22 1/2
72	12 1/2		

NOTES

- TABLE of values for "F" are on this plan.
 - CENTER OF MANHOLE SHAFT shall be located over center line of storm drain when diameter D₂ is 48" or less, in which case place E bars symmetrically around shaft at 45" with center line and omit J bars.
 - DETAIL M: When depth of manhole from street grade to top of box is less than 2'-10 1/2" for paved street or 3'-6" for unpaved street, construct monolithic shaft as per Detail M. Shaft for any depth of manhole may be constructed as per Detail M. When diameter D₁ is 48" or less, center of shaft may be located as per note 2.
 - 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.
 - REINFORCING STEEL to be per 2-D-171, 1/4" clear from face of concrete unless shown otherwise.
 - STEPS shall be 3/4" round galvanized steel and anchored not less than 6" inches in the walls of structure. Unless otherwise shown the spacing shall be 14" to 15" o.c. The lowest step shall not be more than 2'-6" above the invert. See Std. Dwg. 2-D-96.
 - RINGS, REDUCER AND PIPE for access shaft shall be seated in mortar and neatly pointed or wiped inside the shaft.
 - STATIONS of manholes shown on plan apply at center of shaft. Elevations shown at stations refer to prolonged invert grade lines.
 - FLOOR of manhole shall be steel-troweled to springing line.
 - BODY of manhole shall be poured in one continuous operation, except that a construction joint with a longitudinal keyway may be placed at the springing line.
 - LENGTH L AND EMBEDMENT P shall have the following values unless otherwise shown on plan:
 for D₂ = 96" or less, L = 5'-6", P = 5'-0"
 for D₂ over 96", L = 6'-0", P = 8'-0"
- L may be increased or location of manhole shifted to meet pipe ends. When L greater than that shown above is specified, D bars shall be continued 6" o.c.
- 12- D BARS shall be #4 for D₂ = 39" or less, #5 for D₂ = 42" to 84" inclusive and #6 for D₂ = 90" or over. Tie bars shall be #3 bars.
- 13- G = 3000 psi, at 28 days.
- 14- Centerline of inlet pipe to intersect inside face of cone of springing line unless otherwise shown.
- 15 Where Pressure Manhole No. 2 is specified on plans, see Std. Dwg. 2-D-210 SUPERSEDES DWG. NO. 2-D-103

REFERENCES	REVISIONS	DATE	DESCRIPTION
2-D-107		8-53	Revised
2-D-171		10-53	Changed diamen.
2-D-181		10-54	Added note
2-D-210		11-9-70	Step Spacing
2-D-96		3-1-74	M.H. E.C. ref.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

MANHOLE NO. 2
PLAN, SECTION AND
DETAIL

APPROVED BY: *[Signature]*
DATE: 6-12-53
SHEET NO. 250184 OF

SUBMITTED BY: *[Signature]*
DESIGNED BY: *[Signature]*
DIVISION OF ENGINEERING DESIGN