TABLE OF V	ALUES FOR T
Dg	T
42"	8"
45"	8"
48"	8"
51"	8 1/2"
D ₂ 42" 45" 48" 51" 54" 57" 60" 63" 66" 69" 72" 78" 84" 90" 96" 102" 108"	9"
57"	9 1/4"
60"	9 1/2"
63"	10"
66"	10 1/4"
69"	10 3/4"
72"	11"
78"	11 3/4"
84"	12 1/2"
90"	13 1/4"
96"	14"
102"	15 1/2"
108"	16"
114"	16 1/2"
120"	17"
126"	17"
120" 126" 132" 138"	8" 8 1/2" 9" 9 1/4" 9 1/2" 10" 10 1/4" 10 3/4" 11" 11 3/4" 12 1/2" 13 1/4" 14" 15 1/2" 16" 17" 17" 17 1/2" 18"
138"	17 1/2"
144"	18"

STEEL TABLE FOR JUNCTION STRUCTURE - TYPE II							
	D Bors				E Bors		
Diam. D ₂	Min. No. Req'd	Size	Length	Min. No. Req'd	Size	Length	
42"*	6	#5	4'-6"	4	#4	3'-2"	
45"*	6	#5	4'-10"	4	#4	3'-5"	
48"	6	#5	5'-1"	4	#4	3'-7"	
51"	6	#5	5'-5"	6	#4	4'-9"	
54"	6	#5	5'-9"	6	#4	5'-1"	
57"	6	#5	6'-1"	6	#4	5'-6"	
60"	6	#5	6'-4"	6	#4	5'-11" 6'-3"	
63"	6	#5	6'-8"	6	#4	6'-3"	
66"	6 6	#5	7'-0"	8	#4	6'-8"	
69"		#5	7'-4"	8	#4	6'-8"	
72"	6	#5	7'-7"	88	#4	6'-8"	
78"	6	#5	8'-3"	8	#4	6'-8"	
84"	6	#5	8'-10"	10	#4	6'-8"	
90"	6	#6	9'-6"	10	#4	6'-8"	
96"	6	#6	10'-1"	10	#4	6'-8"	
102"	6	#6	10'-10"	11	#4	6'-8"	
108"	6	#6	11'-5"	11	#4	6'-8"	
114"	- 6	#6	12'-0"	12	#4	6'-8"	
120"	6	#6	12'-7"	12	#4	6'-8"	
126"	6	#6	13'-1"	13	#4	6'-8"	
132"	6	#6	13'-8"	13	#4	6'-8"	
138"	6	#6	14'-2"	14	#4	6'-8"	
144"	6	#6	14'-7"	14	#4	6'-8"	

*Manhole shaft shall be 4'-0" and Junction Structure bottom width shall be increased to 4'-0" minimum when M>15'. Use Standard Drawing 330 with 6" thick rings when M>15'.

D bars shall be placed 3" o.c. E bars shall be placed 4" o.c. Tie bars shall be #4 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 on table are for longest bars. Where shorter bars are required, bend or cut to meet field requirements.

NOTES

- 1. Center of manhole shaft shall be located over center line of storm drain when diameter D₁ is 48" or less, in which case place E bar symmetrically around shaft at 45° with center line.
- Length L may be increased one foot maximum at each end to meet pipe ends. Continue D bars at 3" o.c.
- 3. Detail M: when depth of manhole from street grade to top of box is less than 2'-10 1/2" for paved streets or 3'-6" for unpaved streets, construct monolithic shaft as per Detail M. When diameter d is 48" or less, center of shaft shall be located as per Note I.
- 4. Thickness of deck shall vary when necessary to provide level pipe seat, but shall not be less than tabular values for T, as shown in above table.
- 5. Reinforcing steel shall be round, deformed bars, 1 1/2" clear from face of concrete unless otherwise shown. Sizes and lengths are shown in above tables.
- 6. Steps shall be 3/4" round, galvanized steel and anchored not less than 6" in the walls of the structure. If H+M is 3'-6" or less, none required. If H+M 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.
- 7. Rings, reducer, and pipe for access shaft shall be seated in 1:2 mortar and neatly pointed or wiped inside the shaft.
- 8. Floor of manhole shall be steel-troweled to springing line.
- 9. Body of manhole shall be constructed in one continuous operation, except that Contractor shall have the option of placing a construction joint with a longitudinal keyway at the springing line.
- 10. For pipe sizes not shown, use tabled values for next larger pipe.

Note: Use Junction Structure Type II for ${\rm D_2}$ pipe diameters of 42" or greater, and inlet diameters of 30" or less.

REVISED	CITY OF FULLERTON ENGINEERING DEPARTMENT	DRAWN PLS. DATE 8/1/95
DATE		
	JUNCTION STRUCTURE TYPE II	STD. NO.
		322
	APPROVED Roblet Hadaa DATE 8/16/95	2 of 2
	DIRECTOR OF ENGINEERING	2012