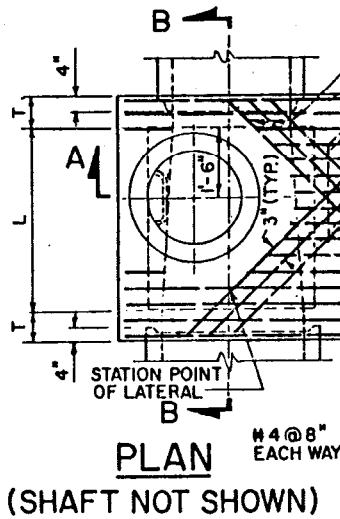
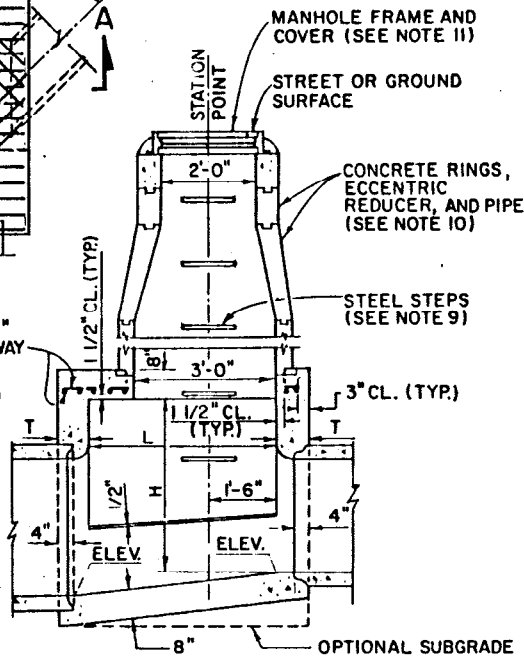


SECTION A-A



PLAN  
(SHAFT NOT SHOWN)

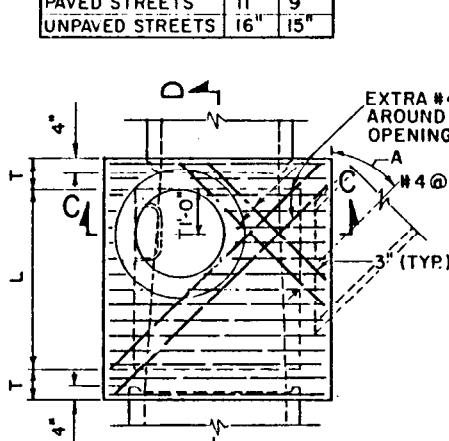
TABLE OF DATA FOR "M"	
TYPE OF SURFACE	M (MIN.)
PAVED STREETS	2'-9"
UNPAVED STREETS	3'-3"



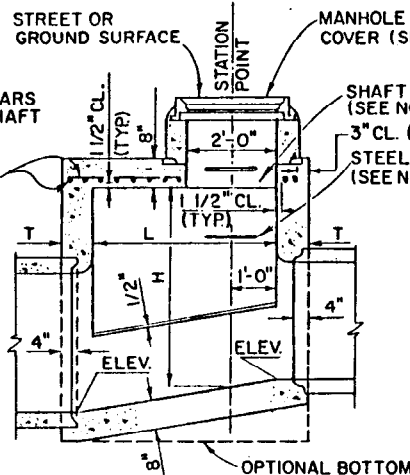
SECTION B-B

TYPE I

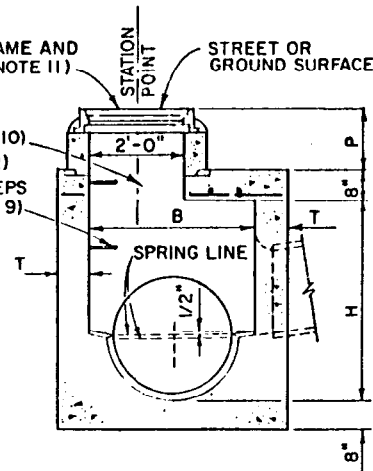
TABLE OF DATA FOR "P"		
TYPE OF SURFACE	MAX. P	MIN.
PAVED STREETS	11"	9"
UNPAVED STREETS	16"	15"



PLAN  
(SHAFT NOT SHOWN)



SECTION D-D



SECTION C-C

TYPE II

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

CITY OF LOS ANGELES

MANHOLE "EZ"

STANDARD PLAN  
S-381-0

SUBMITTED <i>June 2, 1982</i> <i>L. J. ...</i> ENGINEER OF DESIGN <i>L. J. ...</i> DEPUTY ENGINEER	REVISIONS				SUPERSEDES B-1532	REFERENCES S-281 S-331 S-348 S-387
	NO.	DATE	DESCRIPTION	ENG'R OF DESIGN		
APPROVED <i>June 23, 1982</i> <i>A. J. ...</i> A. J. ... ENGINEER						
DESIGNED BY: LIE	DRAWN BY: RGM	CHECKED BY: GF				
						Vault Index Number B-4035
						SHEET 1 OF 2 SHEETS

### NOTES

1. UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS, TYPE I MANHOLE SHALL BE CONSTRUCTED.
2. CONCRETE SHALL BE CLASS 560-C-3250 PER SECTION 201 OF THE STANDARD SPECIFICATIONS.
3. DIMENSIONS
  - H = 4'-0". (SUBJECT TO THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY INCREASE "H" PROVIDED THE MINIMUM REQUIREMENTS OF "M" AND "P" ARE MET.)
  - L = 4'-0". (SUBJECT TO THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY INCREASE "L" OR CHANGE THE LOCATION OF THE STATION POINT IN ORDER TO MEET PIPE ENDS OR OTHER FIELD CONDITION.)
  - P = AS INDICATED HEREON. (SUBJECT TO THE APPROVAL OF THE ENGINEER, "P" MAY BE REDUCED TO NOT LESS THAN 6-INCHES WHEN A LARGER VALUE OF "P" WOULD CAUSE "H" TO BE LESS THAN 3'-6".)
  - B = 3'-6"
  - T = 8" FOR H ≤ 8'-0"; T = 10" WHEN H > 8'-0"
  - M = SEE PROJECT PLANS
  - A = SEE PROJECT PLANS
4. REINFORCEMENT SHALL CONFORM TO SECTION 201 OF THE STANDARD SPECIFICATIONS AND AS SHOWN HEREON.
5. A STEEL TROWEL SURFACE SHALL BE PROVIDED FOR THE CONCRETE FLOOR OF THE STRUCTURE AND TO THE INSIDE CONCRETE WALLS FROM THE INVENT TO THE SPRING LINE.
6. CONCRETE FOR THE STRUCTURE SHALL BE PLACED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR MAY, AT HIS OPTION, PLACE AT THE SPRING LINE A CONSTRUCTION JOINT WITH A 2-INCH BY 4-INCH HORIZONTAL KEYWAY.
7. WHERE LATERALS ENTER ON BOTH SIDES OF THE STRUCTURE, THEY SHALL BE DESIGNATED ON THE PROJECT PLANS AS RIGHT OR LEFT, FACING IN THE DIRECTION OF STATIONING.
8. MANHOLES SHALL BE LOCATED SO THAT THE VERTICAL SIDE OF THE MANHOLE SHAFT AND THE ECCENTRIC REDUCER SHALL BE LOCATED ABOVE AND IN LINE WITH THE SIDE OF THE MAINLINE BELOW THE MANHOLE AND ON THE SIDE OPPOSITE THE LATERAL. IF LATERALS ENTER BOTH SIDES OF THE STRUCTURE, THE MANHOLE SHALL BE LOCATED ON THE SAME SIDE AS THE SMALLER LATERAL.
9. INSTALL STEPS CONFORMING TO STANDARD PLAN S-348.
10. RINGS, REDUCER, PIPE AND PIPE SEAT FOR MANHOLE SHAFT SHALL CONFORM TO STANDARD PLAN S-387.
11. INSTALL MANHOLE FRAME AND COVER CONFORMING TO STANDARD PLAN S-281.
12. PLACE PIPES AS INDICATED ON THE PROJECT PLANS. UNLESS OTHERWISE DETAILED ON THE PROJECT PLANS, THE PIPE CENTERLINE SHALL INTERSECT THE MIDPOINT OF THE INSIDE FACE OF THE INDICATED MANHOLE WALL. THE PIPE MAY BE CUT AND TRIMMED AT A SKEW NECESSARY TO INSURE MINIMUM 3 INCH PIPE EMBEDMENT, ALL AROUND, WITHIN THE MANHOLE WALL, AND 3 INCH RADIUS OF ROUNDING OF STRUCTURE CONCRETE, ALL AROUND, ADJACENT TO PIPE ENDS. A MONOLITHIC CONNECTION PER STANDARD PLAN S-331 SHALL BE USED TO JOIN THE PIPE TO THE MANHOLE WHENEVER ANGLE "A" IS LESS THAN 70 DEGREES OR GREATER THAN 110 DEGREES. THE OPTIONAL USE OF A MONOLITHIC CONNECTION IN ANY CASE IS PERMITTED. MONOLITHIC CONNECTIONS MAY BE EXTENDED UP TO 4 FEET IN LENGTH TO AVOID CUTTING STANDARD LENGTHS OF PIPE.