



**NOTES:**

1. COPOLYMER POLYPROPYLENE PLASTIC SHALL MEET THE REQUIREMENTS OUTLINED IN ASTM D4101, TYPE II, GRADE 49108 OR APPROVED EQUAL.
2. NO. 4 DEFORMED STEEL REINFORCING ROD SHALL MEET THE REQUIREMENTS OUTLINED IN ASTM A615, GRADE 60, OR APPROVED EQUAL.
3. THE STEP IS TO BE INSERTED AT THE PRECASTING PLANT, BY PRESSURE, INTO PRECISELY PRE-FORMED TAPERED HOLES IN THE MANHOLE WALL.
4. THE VERTICAL SPACING BETWEEN INSTALLED STEPS SHALL NOT BE MORE THAN SIXTEEN INCHES.
5. ALL MANHOLE STEPS SHALL COMPLY WITH THE SAFETY STANDARDS (PARTS; FIXED LADDERS) AS ESTABLISHED BY THE OCCUPATIONAL SAFETY STANDARDS COMMISSION OF THE MICHIGAN DEPARTMENT OF LABOR.
6. MANHOLE STEPS ATTACHED INTO THE WALL OF RISER, OR CONICAL SECTIONS, SHALL MEET THE CURRENT REQUIREMENTS OF ANSI/ASTM C478

C					
B					
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	DESCRIPTION	DRW	CKD	APP	DATE
REVISIONS					
DRAWN BY: S.D.A.					
CHECKED BY: S.D.A.					
APPROVED:					

**MANHOLE, STEP  
FOR COPOLYMER  
POLYPROPYLENE  
PLASTIC**

SCALE: NONE

CITY OF DETROIT  
WATER AND SEWERAGE  
DEPARTMENT  
ENGINEERING  
DIVISION

SHEET 2 OF 2

DWG No. 02600-09