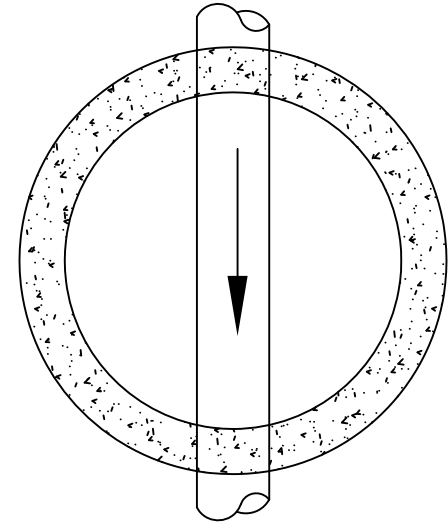


SECTION



PLAN

NOTES:

1. MANHOLE TO CONFORM WITH ASTM C478 EXCEPT AS MODIFIED BELOW.
2. WALL REINFORCING TO BE A MINIMUM OF 0.12 SQ. IN. PER LINEAR FOOT. EITHER TONGUE AND GROOVE OF JOINTS SHALL HAVE REINFORCING EQUAL IN AREA TO MINIMUM OF WALL SECTION.
3. ALL JOINTS SHALL CONFORM WITH ASTM C443.
4. ALL PIPE OPENINGS TO BE NO GREATER THAN 3" LARGER THAN O.D. OF PIPE AND ADDITIONALLY REINFORCED WITH A MINIMUM OF 0.20 SQ. IN. OF STEEL AT 90 DEGREES. PIPE TO BE CENTERED IN OPENINGS.
5. ALL SURFACES SHALL BE SMOOTH EVEN TEXTURED WITH A MINIMUM OF HONEYCOMB, FINS AND OTHER IMPERFECTIONS.
6. MANHOLE BASE SHALL BE 3600 P.S.I. CONCRETE PLACED AGAINST SHAPED BANKS IN LIEU OF FORMS.
7. CARE MUST BE TAKEN TO FORM A SMOOTH FINISHED TROUGH FROM ENTRANCE PIPES TO EXIT PIPE, AND IN CURVED MANHOLES THE TROUGH MUST BE A SMOOTH CIRCULAR ARC TANGENT TO THE INSIDE WALLS OF THE PIPES AT THEIR ENDS.
8. ALL MANHOLE RINGS SHALL BE BOLTED INTO MANHOLE THRU CONCRETE GRADE RING WITH 1/2" DIAMETER KWIK BOLT STUD ANCHOR SYSTEM.
9. MANHOLE GRADE SETTING SHALL BE AS FOLLOWS:
 - A. FLUSH WITH GRADE IN PAVED AREAS
 - B. 0.10' ABOVE GRADE IN MOWED PLAZA AREAS WITHIN OR ADJACENT TO STREET RIGHT-OF-WAY.
 - C. 2.0' ABOVE GRADE IN CROSS-COUNTRY UTILITY RIGHTS-OF-WAY.
 - D. A HEIGHT SPECIFIED BY THE WATER RESOURCES ENGINEER.
10. PENETRATING LIFTING HOLES SHALL BE PLUGGED WITH EXPANSION GROUT.

#	REVISED	DATE: 7/1/04	STANDARD DETAIL		WATER RESOURCES DEPARTMENT CITY OF MONROE, NC	
	1/26/17	SCALE: NONE				
		DRAWN BY: JPH	SHORT MANHOLE DETAIL		FILE NO. 12.05.00	
		CHECKED BY: DSW				
		APPROVED BY: DSW				
					DIV. NO. 12	