


NOTES

1. OPENINGS SHALL BE CORE DRILLED INTO THE PIPE TO SUIT CABLE OR CONDUIT ROUTING.
2. OPENING SHALL BE SEALED WITH GROUT.
3. CABLE DUCT SHEATHING, OR CONDUIT, MAY EXTEND INTO THE MANHOLE A MAXIMUM OF 4".
4. COVER FRAME SHALL BE CONNECTED TO GROUND ROD BY 5' OF CABLE FROM GROUNDING LUG TO GROUND ROD.
5. CONCRETE COLLAR WITH REBAR SHALL BE INCIDENTAL TO THE ELECTRICAL MANHOLE BID ITEM.
6. CONCRETE COLLAR IS NOT REQUIRED IN SIDEWALK AREA.
7. FOR LOAD BEARING INSTALLATIONS IN ROADWAY, A 24" DIAMETER PIPE SHALL BE USED.
8. IF THE MANHOLE CANNOT BE DRAINED TO AN OUTFALL WITHIN 25' OF THE MANHOLE, THEN AN ADDITIONAL 18" OF #57 STONE SHALL BE INSTALLED AT THE BOTTOM OF THE MANHOLE AND COMPACTED. ANY ADDITIONAL STONE SHALL BE INCIDENTAL TO THE CONTRACT BID ITEM FOR THE MANHOLE.
9. IF THE MANHOLE CAN BE DRAINED TO AN OUTFALL WITHIN 25' OF THE MANHOLE, A 6" SOLID SMOOTH WALL PVC DRAIN SHALL BE INSTALLED BETWEEN THE GRAVEL BELOW THE MANHOLE AND THE OUTFALL. DRAINS OUTFALLED IN EXISTING DRAINAGE STRUCTURES SHALL BE AS SPECIFIED IN SECTION 811. PIPE DRAINS ARE THE FIRST CHOICE AND EVERY ATTEMPT SHALL BE MADE DURING THE STAKEOUT TO LOCATE MANHOLES WITHIN 25' OF AN ACCEPTABLE OUTFALL AS DIRECTED BY THE ENGINEER.

	REQUIRED APPLICATION			
	30" DIA. NON-LOAD BEARING		24" DIA. LOAD BEARING	
	WALL B	WALL C	WALL B	WALL C
WALL THICKNESS CLASS IV PIPE	3 1/2"	4 1/4"	3"	3 3/4"
WALL THICKNESS CLASS V PIPE	3 1/2"	4 1/4"	3"	3 3/4"

EITHER A CLASS IV OR V PIPE MAY BE USED WITH EITHER A "B" OR "C" WALL THICKNESS

SPECIFICATION 811	CATEGORY CODE ITEMS
APPROVED	<i>Cedric W. S.</i> DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL 5-15-17
	REVISED
	REVISED
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 3-24-17
	REVISED
	REVISED

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

**ELECTRICAL MANHOLE
 NOTES**

STANDARD NO. MD 811.04-01