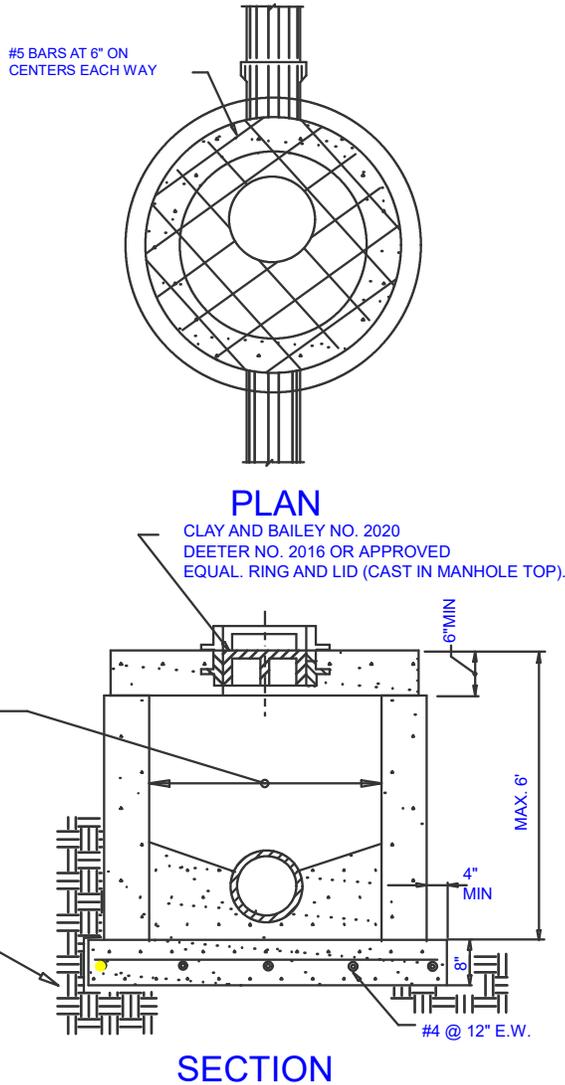


**NOTES:**

1. WATERPROOFING: WATERPROOFING WILL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE BITUMEN SHALL CONSIST OF TWO (2) SIX (6) MILL COATS OF ASPHALT, COAL TAR PITCH, OR A COATING MEETING (ASTM) D-41. ASPHALT SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 449. COAL-TAR PITCH SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 450.
2. USE OF A STANDARD LID AND RING WILL BE ALLOWED WHERE GRADE PERMITS. (SEE SPEC. FOR APPROVED TYPES)
3. CONTRACTOR SHALL PROVIDE STEPS SPACED AT 1'-4" O.C. WHERE INLET OR MANHOLE DEPTH IS GREATER THAN 4'-0". STEPS SHALL BE M.A. INDUSTRIES, INC. MODEL PS-2-PF OR APPROVED EQUAL.



GARDNER, KANSAS <u>PUBLIC</u> <u>WORKS/</u> <u>ENGINEERING</u> <u>DIVISION</u>	APPROVED	REVISED	STANDARD SHALLOW MANHOLE DETAIL	STANDARD DETAIL 31-3
	<u>JRH</u> CITY ENGINEER	_____		
	2-1-07 DATE	_____		