



**NOTES:**

1. FLOOR TROUGHS ARE NEEDED FOR ALL INCOMING SEWERS. A LARGER DIA. MANHOLE MAY BE NEEDED IN ORDER TO PROPERLY CONSTRUCT THE TROUGHS WHEN THE INCOMING SEWER INVERTS ARE SUBSTANTIALLY HIGHER THAN THE OUTGOING SEWER INVERT. PROVIDE A MINIMUM OF .1 FT (30mm) DROP FROM INLET TO OUTLET.
2. 4'-0" (1.2m) DIA. MANHOLES MAY BE USED FOR PIPES UP TO 24" (600mm) DIA.
3. 5'-0" (1.5m) DIA. MANHOLES MAY BE USED FOR PIPES FROM 27"-36" (675mm-900mm) DIA.
4. SPECIAL MANHOLES MAY BE USED FOR PIPES LARGER THAN 36" (900mm) DIA.
5. APPROVED STRAIGHT MANHOLE SECTION WITH FLAT SLAB COVER ARE REQUIRED FOR MANHOLES 6'-0" (1.8m) OR LESS IN DEPTH.
6. NO MANHOLE STEPS ALLOWED.
7. MANHOLES WITH THE BASE POURED MONOLITHICALLY WITH THE BOTTOM BARREL ARE ALSO ACCEPTABLE.
8. SEAL JOINTS WATER TIGHT WITH APPROVED MATERIAL. GROUT HOISTING HOLES WATER TIGHT WITH NONMETALLIC, NON-SHRINK GROUT.
9. INVERTS SHALL BE U-SHAPED TO THE I.D. PIPE DIA. POINT (PIPE CROWN).
10. THE ENGINEER SHALL DETERMINE THE MANHOLE SIZE BASED ON THE ANGLE, NUMBER AND SIZE OF PIPE PENETRATIONS. THE MINIMUM DISTANCE BETWEEN KNOCKOUTS IS 12" (300mm).

# STANDARD STORM SEWER MANHOLE DETAIL

(FOR MANHOLE DEPTH >6' BASE TO LID)

**NOT TO SCALE**

<i>CITY OF LAKELAND ENGINEERING DIVISION</i>		
<b>STANDARD STORM SEWER MANHOLE DETAIL</b>		
FOR MANHOLE DEPTH >6' BASE TO LID		
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