



WATERTIGHT, SEALED  
 FRAME & COVER  
 USE CITY PATTERN  
 LOCKING BOLTS (McGARD INC.)  
 BOLT PART# 117150  
 PATTERN REFERENCE# 117183

MANHOLE FRAME TO BE  
 BOLTED DOWN WITH  
 WITH FOUR STAINLESS  
 STEEL BOLTS

BUTYL MASTIC BETWEEN  
 MANHOLE AND FRAME & COVER

SEAL AROUND  
 VENT PIPE  
 THROUGH M.H.

BUTYL RUBBER  
 SEALS

BENCH  
 WALL

CONC.  
 INVERT  
 SEE NOTE #2

SEE NOTE #1

M.H. SECTION

Ⓐ 4' INSIDE DIAMETER MANHOLES  
 SHALL HAVE 5" THICK WALLS  
 5' INSIDE DIAMETER MANHOLES  
 SHALL HAVE 6" THICK WALLS

NOTES:

1. 4'-0" I.D. FOR 18" & SMALLER PIPES.  
 5'-0" I.D. FOR 21" & LARGER PIPES.
2. PRECAST CONCRETE INVERTS MAY BE  
 USED IN LIEU OF POURED BASES.
3. MANHOLES MUST NOT HAVE ANY LARGE  
 CHIPPED AREAS, BROKEN AREAS, CRACKS,  
 OR EXPOSED REINFORCEMENT, OR OTHER  
 DEFECTS. DEFECTIVE MANHOLES WILL NOT  
 BE ACCEPTED.
4. STEEL PIPE TO HAVE AN INSIDE COAL-TAR LINING,  
 3/32 INCH MINIMUM THICKNESS. THE OUTSIDE  
 SHALL BE SAND OR GRIT BLASTED AND COATED  
 WITH TWO COATS OF URETHANE PAINT SUCH AS  
 TNEMEC 73-ENDURA SHIELD FOR A TOTAL DRY FILM  
 THICKNESS OF 5 MILS. COLOR TO BE "OLIVE GREEN"
5. MANHOLES WITH A DEPTH OF 10.0' OR  
 GREATER MUST BE 5' DIAMETER.
6. WRAP OUTSIDE MANHOLE SEAMS  
 (JOINTS) WITH A WIDE BUTYL TAPE

CITY OF SALISBURY, N.C.	STANDARD DETAIL	DATE: OCTOBER 17, 2006 AMENDED: MAY 19, 2009
SEWER SYSTEMS MANHOLE VENT		NOT TO SCALE
		STANDARD SS-4