

MANHOLE 30" CASTING AND COVER **INSERT** PRECAST MANHOLE CASTING -PRECAST SHALL BE CONCRETE **IMBEDDED** RISER IN CEMENT **MORTAR BUTYL JOINT** SEALANT ASTM C443/C990 REINFORCEMENT DIA. 48" OR 60" DIA. TO MEET ASTM A1064 **4**8, \circ 5" OR 6" FOR

FLEXIBLE BOOT

ASTM C923 (TYP)

EXTEND PIPE

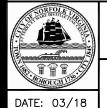
INTO MH 1'

PROFILE

CONNECTION

NOTE:

- ALL MANHOLE WALLS SHALL RECEIVE INSIDE APPLICATION OF SIKAGARD HIGH-BUILD OR APPROVED EQUAL APPLIED IN 3-4 COATS OF 4-7 MILS.
- JOINTS, LIFT HOLES & CHIPS TO BE POINTED WITH NONSHRINK GROUT AND COATED WITH SIKAGARD HIGH-BUILD OR APPROVED EQUAL ON INSIDE WALL, AND PAINTED WITH BITUMINOUS COATING ON OUTSIDE WALL.
- MANHOLE SHALL MEET ALL REQUIREMENTS OF ASTM C478.
- CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH MINIMUM.
- BASES SHALL BE EXTENDED MONOLITHIC TYPE.
- THE DIFFERENCE BETWEEN THE INFLUENT PIPE INVERT AND THE MANHOLE EFFLUENT INVERT SHALL BE NO GREATER THAN 1.99 FEET. IF EQUAL TO OR GREATER THAN 2 FEET AN OUTSIDE DROP CONNECTION IS REQUIRED.
- MANHOLES SHALL BE DESIGNED TO PREVENT FLOTATION WITHOUT THE BENEFIT OF SKIN FRICTION WHEN THE GROUND WATER LEVEL IS AT THE FINISHED GROUND SURFACE. THE FLOTATION FORCES SHALL BE RESISTED BY THE DEAD LOAD OF THE STRUCTURE AND THE SOIL DIRECTLY ABOVE THE STRUCTURE. THE WEIGHT OF THE EQUIPMENT AND PIPING WITHIN THE DIRECT FLOW TOWARD STRUCTURE AND THE SOIL FRICTIONAL FORCES SHALL NOT BE CONSIDERED AS BEING EFFECTIVE IN RESISTING FLOATATION FORCES.
 - MINIMUM WALL THICKNESS FOR A 48-INCH DIA. MANHOLE IS 5 INCHES 60-INCH DIA. MANHOLE IS 6 INCHES
- MAX PRECAST SECTION HEIGHT FOR A 48-INCH DIA. MANHOLE IS 4 FEET 60-INCH DIA. MANHOLE IS 5 FEET VDOT NO. 57 STONE



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MAX DEPTH

CITY OF NORFOLK - DEPARTMENT OF UTILITIES STANDARD DETAILS

MIN 6"

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SEE NOTE 8

SHAPE BENCH TO

EFFLUENT INVERT.

4" MIN THICKNESS

SCALE: NOT TO SCALE

PRECAST SEWER MANHOLE

DRAWING NO. CS 03