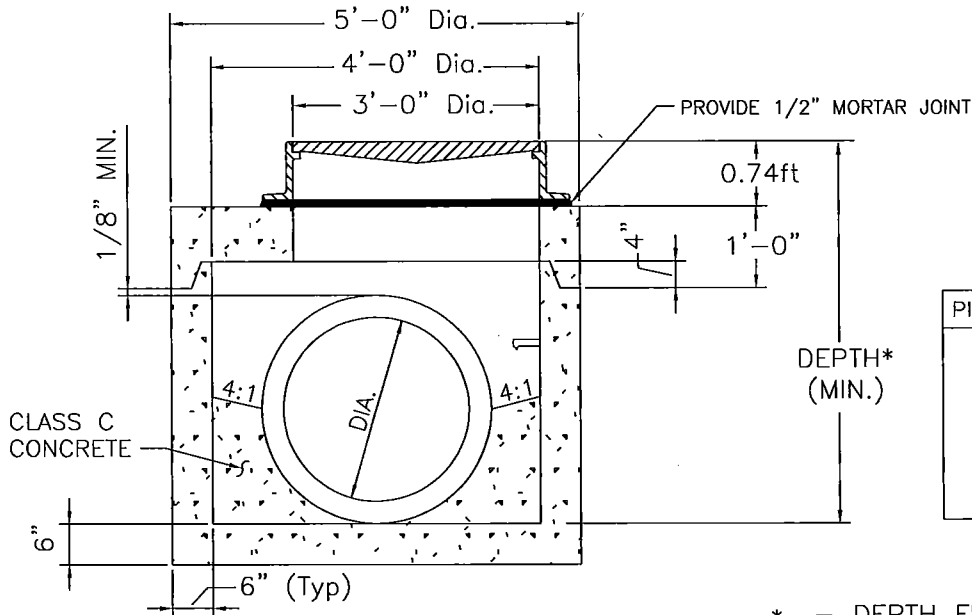


SEE STANDARD DRAWING S-114



PIPE DIA.	DEPTH (MIN.)
12"	2.97'
15"	3.24'
18"	3.51'
21"	3.78'
24"	4.05'
27"	4.32'

* - DEPTH FROM TOP OF CASTING TO PIPE INVERT

ALL CONCRETE SHALL BE CLASS C.
 MANHOLES MUST BE IN ACCORDANCE WITH ASTM C-478.
 TC=TOP OF CASTING (MAX. ADJUSTMENT FROM TOP OF SLAB TO TC IS 12")
 DIA.= PIPE DIAMETER IN INCHES
 H=HEIGHT IN FEET (MAX. HEIGHT 5.10- FEET)
 STEP LOCATION: FIRST STEP SHALL BE LOCATED NO GREATER THAN 28" FROM TOP OF CASTING. SUBSEQUENT STEPS SHALL BE AT 16" INTERVALS. STEPS SHALL COMPLY WITH STANDARD DRAWING DCED-S119.
 MAXIMUM PIPE SIZE 27"
 PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 5" AND REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

CHRIS E. BAUSERMAN, P.E., P.S.
 Delaware County Engineer

Delaware County Engineer

STANDARD CONSTRUCTION DRAWING

TYPE "A" MANHOLES
 FOR 12" TO 27" PIPE
 (STORM SEWERS)

DELAWARE COUNTY ENGINEER'S OFFICE

50 Channing Street
 Delaware, Ohio 43015
 PHONE: (740)833-2400 FAX: (740)833-2399
 www.co.delaware.oh.us

APPROVED
 1-22-2008

REVISED

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Checked	EM	of	1	DCED-S100