

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures Date October 6, 2004
Attention All Employees Ref No. 521.1
From Gary Novey
Office Bridges and Structures
Subject Method's Memo No. 96 (Revised Culvert Wall Thickness)

The following section of the culvert manual has been modified and will be updated in the next manual revision. The change was made to make it easier for contractors to use standard form ties on non-standard metric culvert projects. Until the manual is updated please use the values in the modified table below.

4.1.6 Slab, Floor, and Wall Thickness

For slab and floor thicknesses round up to the nearest 5 mm except in situations where the value is less than one mm then round down. For wall thicknesses round down to the nearest 5 mm to allow for standard form ties to be used, which are usually available in 1/2 inch increments without increasing the wall thickness too much. See Table 4.1.6-1.

Table 4.1.6-1 – Slab, Floor, and Wall Thickness			
Computer	Metric Conversion	Round Slab and	Round Wall

Output (in)	(mm)	Floor Thickness to (mm)	Thickness to (mm)
8.0	203.2	205	200
8.5	215.9	215	215
9.0	228.6	230	225
9.5	241.3	245	240
10	254	255	250
10.5	266.7	270	265
11	279.4	280	275
11.5	292.1	295	290
12	304.8	305	300
12.5	317.5	320	315
13	330.2	330	330
13.5	342.9	345	340
14	355.6	355	355
14.5	368.3	370	365
15	381	385	380
15.5	393.7	395	390
16	406.4	410	405
16.5	419.1	420	415
17	431.8	435	430
17.5	444.5	445	440
18	457.2	460	455
18.5	469.7	470	465
19.0	482.6	485	480
19.5	495.3	495	495
20.0	508	510	505
24.5	622.3	625	620
26	660.4	660	660
27	685.8	685	685
28	711.2	715	710