





TABLE OF DIMENSIONS											
PIPE DIAMETER (INCHES)	APPROX. SLOPE	T (INCHES)	A (INCHES)	B (INCHES)	C (INCHES)	D (INCHES)	E (INCHES)	G (INCHES)	R (INCHES)	X (INCHES)	Y (INCHES)
12	2.4 to 1	2	4	24	49	73	24	2	9	8	18
15	2.4 to 1	2 ¹ ⁄4	6	27	46	73	30	2 ¹ ⁄4	11	8	18
18	2.3 to 1	2 ¹ /2	9	27	46	73	36	2 ¹ /2	12	8	18
21	2.4 to 1	2 ³ /4	9	36	37 ¹ /2	73 ¹ ⁄2	42	2 ³ ⁄4	13	8	18
24	2.5 to 1	3	9 ¹ /2	43 ¹ ⁄4	30 ¹ /2	73 ³ ⁄4	48	3	14	8	18
27	2.5 to 1	31/4	10 ¹ /2	49 ¹ ⁄4	24 ¹ /2	73 ³ ⁄4	54	31/4	14 ¹ /2	8	18
30	2.5 to 1	31/2	12	54	19 ³ ⁄4	73 ³ ⁄4	60	31/2	15	8	18
36	2.5 to 1	4	15	63	34 ³ ⁄4	97 ³ ⁄4	72	4	20	8	18
42	2.5 to 1	4 ¹ /2	21	63	35	98	78	4 ¹ /2	22	10	24
48	2.5 to 1	5	24	72	26	98	84	5	22	10	24
54	2.0 to 1	5 ¹ /2	27	65	33 ¹ ⁄4	98 ¹ ⁄4	90	5 ¹ /2	24	10	24
60	1.9 to 1	6	35	60	39	99	96	5	*	12	24
66	1.7 to 1	6 ¹ /2	30	72	27	99	102	5 ¹ /2	*	12	24
72	1.8 to 1	7	36	78	21	99	108	6	*	12	24
78	1.8 to 1	7 ¹ /2	36	90	21	111	114	6 ¹ /2	*	12	24
84	1.6 to 1	8	36	90 ¹ /2	21	1111/2	120	6 ¹ /2	*	12	24

* AS FURNISHED BY THE MANUFACTURER

NOTES:

CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C 76 CLASS II, EXCEPT AS MODIFIED BY THE STANDARD SPECIFICATION.

REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, A.S.T.M. DESIGNATION C 76 CLASS 11 FOR THE SIZE OF CONNECTING PIPE.

REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS-SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT MUST BE COMPLETELY FILLED WITH MORTAR ON THE INSIDE AND OUTSIDE AND STRUCK FLUSH. THE JOINT MUST BE WRAPPED WITH GEOTEXTILE BLANKET 36" WIDE WITH A 12" OVERLAP. TO CHANGE THE FILL SLOPE TO THE SLOPE OF THE END SECTION USE A TRANSITION SLOPE OF APPROXIMATELY 10' IN LENGTH TO PROVIDE A PLEASING APPEARANCE.

VARIATIONS IN DIMENSIONS - THE THICKNESS OF CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAINS, AND SEWER PIPE, A.S.T.M. DESIGNATION C 76.

PLACE CONCRETE FOOTING AS SHOWN.

OUTFALL LABEL TO BE USED ONLY WHERE STORMWATER WILL DISCHARGE DIRECTLY TO THE WATERS OF THE STATE.

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR							
PRECAST FO	CONCRETI R PIPE C						

5-18-2020	9-13-2018	D-86-F	SHEET	
F.H.W.A. APPROVAL	PLAN DATE	N-00-1	2 OF 2	