

AROUND PIPE OPENINGS ONLY

SPECIAL NOTE

TO BE USED ON RADIUS LESS THAN 25 FEET. FOR RADIUS 25 FEET AND GREATER USE TYPE 12 CATCH

CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 40.00'

☐ REV. 9-24-12: MODIFIED TOP SLAB AND MINIMUM DEPTH.

REV. 3-11-14:

REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE (J) ADDED CATCH BASIN MAXIMUM DEPTH NOTE. REV. 8-01-12: REVISED CATCH BASIN ELIMINATED STIRRUPS LID FOR COMPLIANCE WITH AASHTO LRFD

BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH INTERIMS. REVISED REINFORCING, GENERAL NOTES AND ADDITIONAL MISC. DRAFTING EDITS. FOR DESIGN

CATCH BASIN DIMENSIONS								FOR D USE	ESIGN ONLY		
INSIDE DIAMETER (D) OF PIPE (INCHES)	PIPE WALL THICKNESS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	PRECAST SECTION MIN. HEIGHTS (INCHES)				CATCH BASIN MINIMUM DESIGN DEPTH (FEET)				
			84"	96″	108"	120"	84"	96″	108"	120"	
18	21/2	25	57½	59	63½	64	4.34	4.38	4.42	4.46	
24	3	32	641/2	66	70½	71	4.88	4.92	4.96	5.00	() aut aut un 56
30	31/2	39	71½	73	771/2	78	5.42	5.46	5.50	5.54	(1) CUT-OUT HOLES BASED ON REINFORCED
36	4	46	78½	80	841/2	85	5.97	6.00	6.04	6.08	CONCRETE PIPE WITH WALL TYPE "B".
42	41/2	53	851/2	87	91 ½	92	6.51	6.54	6.58	6.63	ALL FLEXIBLE PIPE (2) MATERIALS REQUIRE
48	5	60	921/2	94	981/2	99	7.05	7.08	7.13	7.17	GASKET. SEE STANDARD DRAWING
54	5½	67	991/2	101	105½	106	7.59	7.63	7.67	7.71	D-PB-2.
60	6	74	1061/2	108	1121/2	113	8.13	8.17	8.21	8.25	(3) CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE FORMED IN
66	6½	81	113½	115	119½	120	8.67	8.71	8.75	8.79	ORDER TO OBTAIN A SMOOTH EDGED HOLE.
72	7	88	1201/2	122	1261/2	127	9.22	9.25	9.29	9.33	SCORED OR ETCHED HOLES WITH REINFORCING STEEL
78	71/2	95	127½	129	133½	134	9.76	9.79	9.83	9.88	LEFT UNCUT WILL NOT BE PERMITTED.

GENERAL NOTES

(A) ALL PRECAST ELEMENTS TO MEET ASTM C478 (CURRENT EDITION) AND AASHTO M199 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.

CONCRETE: $f_c = 4,000 \text{ POUNDS PER SQUARE INCH AT 28 DAYS}$ REINFORCING STEEL: ASTM A615, $F_Y = 60,000$ POUNDS PER SQUARE INCH ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

SATISFIED. THE CONTRACTOR HAS THE OPTION OF USING BRICK OR STANDARD PRECAST CONCRETE RISER FRAMES. THE USE OF BRICK SHALL BE LIMITED TO 6 INCHES. IF THIS DIMENSION EXCEEDS 6 INCHES, PRECAST CONCRETE RISER FRAMES SHALL BE USED AS SHOWN ON STANDARD DRAWING D-RF-1.

THIS DIMENSION MAY VARY FROM A MINIMUM OF O INCHES TO A MAXIMUM OF 24 INCHES AS LONG AS 27 INCHES IS

- PRECAST CATCH BASIN UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED CATCH BASIN UNITS AT HIS OWN EXPENSE.
- APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.
- THE CONTRACTOR IS TO PATCH ALL LIFTING DEVICE HOLES WITH GROUT AND PLACE A MINIMUM OF ONE (1) INCH OF COVER OVER THE HARDWARE OF THESE DEVICES ON BOTH TOP AND BOTTOM SURFACES.
- (F) ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99R FOR ADDITIONAL DETAILS.
- G) SEE ROADWAY PLANS DRAINAGE TABULATION FOR PIPE INLET AND OUTLET ELEVATIONS. INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
- (H) FOR CASES WHERE THE OUTLET PIPE DIAMETER IS LARGER THAN THE INLET PIPE DIAMETER. A MINIMUM 27 INCH DEPTH SHALL BE MAINTAINED ABOVE THE OUTLET PIPE.
- SEE STANDARD DRAWING D-CBB-13 FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- (J) SEE STANDARD DRAWING D-CB-13RA FOR DETAILS REGARDING 48" CIRCULAR NO. 13 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB).
- (K) SEE STANDARD DRAWING D-CB-13RB FOR DETAILS REGARDING 60" AND 72" CIRCULAR NO. 13 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB).
- (L) PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611-13.02 CATCH BASINS, TYPE 13, > 4'-8' DEPTH THROUGH 611-13.07, CATCH BASINS, TYPE 13, > 24'-28' DEPTH PER EACH. PAYMENT FOR CATCH BASINS DEEPER THAN 28' WILL BE MADE UNDER ITEM NUMBER 611-13.08, CATCH BASINS, TYPE 13, ____' DEPTH PER EACH. PAYMENT INCLUDES RISER SECTION AND GRATE.

CATCH BASIN DIMENSIONS									
INSIDE DIA. OF CATCH BASIN	WALL THICKNESS	LID THICKNESS	BASE THICKNESS	OUTSIDE DIA. OF CATCH BASIN	MAX. INLET OR OUTLET CONC.	MAX. INLET OR OUTLET CONC.	DIMENSION		
DIA. (INCHES)	W (INCHES)	L (INCHES)	U (INCHES)	DIA. + 2W (INCHES)	PIPE SIZE - STR. (INCHES)	PIPE SIZE - 90° (INCHES)	C (INCHES)		
84	8	10	8	100	60	36	3.5	DE	
96	9	10	8	114	66	42	4.0		
108	10	10	12	128	72	48	4.5		
120	11	10	12	142	78	54	5.0		

☐ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE EPARTMENT OF TRANSPORTATION STANDARD PRECAST 84" THRU 120"

CIRCULAR NO.13 CATCH BASIN (FOR USE WITH 6"

NONMOUNTABLE CURB) D-CB-13RC

NOT TO SCALE 4-15-00