

## CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 20.00'

A 1	CH BASIN	FOR DESIGN USE ONLY		
ÞΕ	PIPE WALL THICKNESS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	BOX SECTION MINIMUM HEIGHTS (INCHES)	CATCH BASIN MINIMUM DESIGN DEPTH (FEET)
	21/2	25	53	3.88
	3	32	60	4.42
	31/2	39	67	4.96
	4	46	74	5.50
	41⁄2	53	81	6.04
	5	60	88	6.58
	51⁄2	67	95	7.13
	6	74	102	7.67

CUT-OUT HOLES BASED ON REINFORCED CONCRETE PIPE WITH WALL TYPE "B".

(2) ALL FLEXIBLE PIPE MATERIALS REQUIRE GASKET. SEE STANDARD DRAWING D-PB-2.

CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UNCUT WILL NOT BE PERMITTED.

(4) TO BE USED IN 96 INCH INTERIOR WALL ONLY.

## GENERAL NOTES

(A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 45 CONCRETE CATCH BASINS AND ALL PRECAST NO. 45 CONCRETE CATCH BASINS. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL CONSTRUCTION NOTES & DETAILS.

(b) this dimension may vary from a minimum of 0 inches to a maximum of 24 inches as long as 21 inches is 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

 $({
m c})$  this drawing depicts the minimum horizontal reinforcing at the top of catch basin walls. See additional details ON STANDARD DRAWING D-CB-99 FOR TALLER SECTIONS AND STEEL PLACEMENT ABOVE PIPE OPENINGS.

CAST-IN-PLACE CONCRETE CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING. THE CONTRACTOR MAY WITH PERMISSION FROM THE ENGINEER SUBSTITUTE PRECAST CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM C913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.

(e) the following material properties are required for both cast-in-place and precast structures:

(F) 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.

(G) the contractor may eliminate the a503 bars by lengthening the vertical leg of the h500/h501 bars so that  $1\frac{1}{2}$ 

(h) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.

 $({
m I})$  the contractor is to patch all lifting device holes with grout and place a minimum of one (1) inch of cover over

(J) ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL DETAILS.

(K) SEE ROADWAY PLANS DRAINAGE TABULATION FOR PIPE INLET AND OUTLET ELEVATIONS. IF NEEDED, INVERT ELEVATIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.

(M) see standard drawing d-cbb-31 for details regarding cast iron grates, frames and curb inlets.

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m (n)}$  pay depth measurement made from top of grate to outlet flow elevation. Payment for catch basin will be made UNDER ITEM NUMBERS 611-45.01 CATCH BASINS, TYPE 45, 0'-4' DEPTH THROUGH 611-45.05, CATCH BASINS, TYPE 45, > 16'-20' DEPTH PER EACH. PAYMENT INCLUDES RISER SECTIONS AND GRATES.

RCING STEEL LEGEND		MINOR REVISION FHWA APPROVAL NOT REQUIRED.			
1 1	500 54½"	STATE OF TENNESSEE Department of transportation			
нти H502 25 H502 2014, WXX H502 2014, " H502 2014, " H502 2014, " H502 2014, " H502 2014, "	LS401 🔆	STANDARD 8' X 4' RECTANGULAR CONCRETE NO.45 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)			
TO OUTSIDE OF BAR. STANDARD C.R.S.I. NOTED.	NOT TO SCAL	E 1-19-99 D-CB-45S			

- □ REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE (J). ADDED CATCH BASIN MAXIMUM DEPTH NOTE.
- REV. 2-2-12: CHANGED GENERAL NOTES C, MISC. EDITS MADE TO SECTIONS.

REV. 8-01-12: REVISED CATCH BASIN FOR COMPLIANCE WITH AASHTO LRED BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH INTERIMS. REVISED REINFORCING, GENERAL NOTES. LEGEND AND ADDITIONAL MISC. DRAFTING EDITS