

CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 28.00'

DEV 0.17.04 CHANC					
	FOR DESIGN USE ONLY CATCH BASIN MINIMUM DESIGN DEPTH (FEET)	CATCH BASIN DIMENSIONS			
DIMENSION TO SECTION		BOX SECTION MINIMUM HEIGHTS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	PIPE WALL THICKNESS (INCHES)	INSIDE DIAMETER) OF PIPE (INCHES)
COMPLIANCE WITH AASH	4.42	611/2	25	21/2	18
INTERIMS. REVISED F	4.96	681/2	32	3	24
DRAFTING EDITS.	5.50	751/2	39	31/2	30
\neg	6.04	821/2	46	4	36
	6.58	891/2	53	41/2	42
\neg	7.13	961/2	60	5	48
1 CUT-OUT HOLES BASED O	7.67	1031/2	67	51/2	54
(2) ALL FLEXIBLE PIPE MAT	8.21	1101/2	74	6	60
GASKET. SEE STANDARD (3) CUT-OUT HOLES FOR PRE	8.75	1171/2	81	61/2	66
TO BE FORMED IN ORDER SMOOTH EDGED HOLE. S	9.29	1241/2	88	7	72
HOLEC WITH DEINEODOIN				_	

☐ REV. 5-30-02: MODIFIED REINFORCING STEEL.

☐ REV. 5-30-02: CHANGED REINFORCING STEEL

IN BASE SECTION. ED REINFORCING STEEL

EXTRA STEEL

ED CATCH BASIN FOR TO LRFD BRIDGE S, 4TH EDITION WITH EINFORCING, GENERAL DITIONAL MISC.

REINFORCED L TYPE "B".

ERIALS REQUIRE DRAWING D-PB-2

CAST STRUCTURES TO OBTAIN A HOLES WITH REINFORCING STEEL LEFT UNCUT WILL NOT BE PERMITTED.

GENERAL NOTES

1311/2

9.83

(A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 46 CONCRETE CATCH BASINS AND ALL PRECAST NO. 46 CONCRETE CATCH BASINS. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL CONSTRUCTION NOTES & DETAILS.

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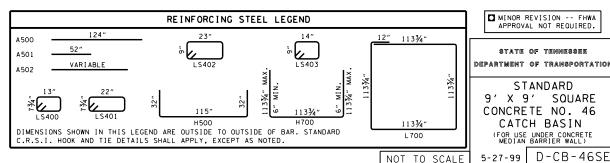
- B THIS DIMENSION MAY VARY FROM A MINIMUM OF O INCHES TO A MAXIMUM OF 24 INCHES AS LONG AS 27 INCHES IS SATISFIED. THE CONTRACTOR HAS THE OPTION OF USING BRICK OR STANDARD PRECAST CONCRETE RISER FRAMES. THE USE OF BRICK SHALL BE LIMITED TO 6 INCHES. IF THIS DIMENSION EXCEEDS 6 INCHES, PRECAST CONCRETE RISER FRAMES SHALL BE USED AS SHOWN ON STANDARD DRAWING D-RF-1.
- (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.
- D) 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BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING.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:

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

71/2

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- 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.
- THE CONTRACTOR MAY ELIMINATE THE A502 BARS BY LENGTHENING THE VERTICAL LEG OF THE H500 BARS SO THAT 11/2 INCHES OF CLEAR COVER IS PROVIDED AT THE TOP OF THE STRUCTURE.
- H) 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.
- 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.
- 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.
- M) SEE STANDARD DRAWING D-CBB-31 FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- N PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611-46.02 CATCH BASINS, TYPE 46, > 4'-8' DEPTH THROUGH 611-46.07, CATCH BASINS, TYPE 46. > 24'-28' DEPTH PER EACH. PAYMENT INCLUDES RISER SECTIONS AND GRATES.



MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE EPARTMENT OF TRANSPORTATIO

9' X 9' SQUARE CONCRETE NO. 46 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)