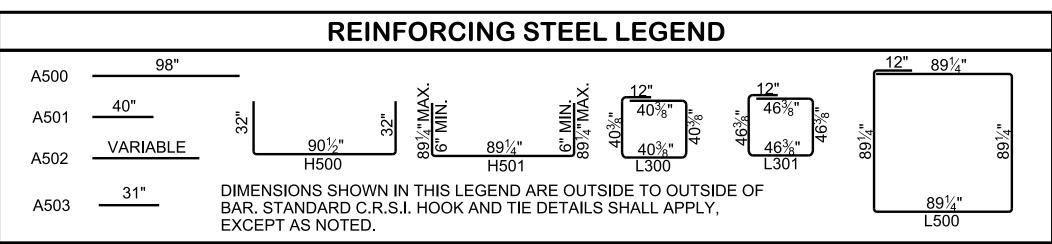
## CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 28.00'.

CATCH BASIN DIMENSIONS				FOR DESIGN
INSIDE DIAMETER (D) OF PIPE (INCHES)	PIPE WALL THICKNESS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	BOX SECTION MINIMUM HEIGHTS (INCHES)	USE ONLY CATCH BASIN MINIMUM DESIGN DEPTH (FEET)
18	2½	25	62½	4.28
24	3	32	69½	4.82
30	3½	39	76½	5.37
36	4	46	83½	5.91
42	4½	53	90½	6.45
48	5	60	97½	6.99
54	5½	67	104½	7.53
60	6	74	111½	8.08
66	6½	81	118½	8.62

- (1) 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
- (3) 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.



## **GENERAL NOTES**

- DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 42SD CONCRETE CATCH BASINS AND ALL PRECAST NO. 42SD CONCRETE CATCH BASINS. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL CONSTRUCTION NOTES & DETAILS.
- 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
- 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BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING.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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM C913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.
- THE FOLLOWING MATERIAL PROPERTIES ARE REQUIRED FOR BOTH CAST-IN-PLACE AND PRECAST STRUCTURES:

CONCRETE: f'<sub>C</sub> = 4,000 POUNDS PER SQUARE INCH AT 28 DAYS REINFORCING STEEL: ASTM A615, Fy = 60,000 POUNDS PER SQUARE INCH ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

- 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 THEIR 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.
- ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL
- 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
- FOR CASES WHERE THE OUTLET PIPE DIAMETER IS LARGER THAN THE INLET PIPE DIAMETER, A MINIMUM 26 INCH DEPTH SHALL BE MAINTAINED ABOVE THE OUTLET PIPE.
- SEE STANDARD DRAWING D-CBB-42 FOR DETAILS REGARDING CAST IRON GRATES.
- THE CONTRACTOR MAY ELIMINATE THE A502 BARS BY LENGTHENING THE VERTICAL LEG OF THE H500 BARS SO THAT 1½ INCHES OF CLEAR COVER IS PROVIDED AT THE TOP OF THE STRUCTURE.
- PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT INCLUDES GRATE. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS:

611-42.02, CATCH BASINS, TYPE 42, 4'-8' DEPTH, 611-42.07, CATCH BASINS, TYPE 42, > 24'-28' DEPTH

EACH, EACH.

(THROUGH)

(ALL OTHERS APPROVED BY TDOT)

■ APPROVED BY FHWA

STATE OF TENNESSEE STANDARD DRAWING **DEPARTMENT OF TRANSPORTATION** 

REV. 9-5-98: CHANGED LENGTH OF **REINFORCING BAR DESIGNATED A501** 

REV. 1-19-99: ADDED CURB HEIGHT.

MAXIMUM DEPTH NOTE.

STEEL IN BASE SECTION.

AND MINIMUM DEPTH.

STEEL.

REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE J. ADDED CATCH BASIN

REV. 5-30-02: MODIFIED REINFORCING

SPECIFICATION IN GENERAL NOTE ©.

REV. 9-11-02: CHANGED REINFORCING

☐ REV. 8-01-12: REVISED CATCH BASIN FOR

DESIGN SPECIFICATIONS, 4TH EDITION

GENERAL NOTES, LEGEND AND ADDITIONAL MISC. DRAFTING EDITS

REV. 9-24-12: MODIFIED TOP SLAB

REV. 3-11-14: ELIMINATED STIRRUPS

REV. 05-15-18: REVISED CATCH BASIN

CORRECTED STANDARD SPECIFICATIONS SECTION NUMBER TO 921 FOR NON

-SHRINK GROUT. ADDED DIMENSION IN

CORRECTED REBAR PLACEMENT IN LIDS

ADDED DIMENSION IN SECTION VIEW A-A

FOR MINIMUM DESIGN DEPTH. ADJUSTED

MINIMUM DESIGN DEPTH VALUES.

SECTION VIEW A-A FOR NOTE  $\bigcirc$ 

BOX SECTION MINIMUM HEIGHTS.

REV. 02-20-2020: REDREW SHEET.

WITH INTERIMS. REVISED REINFORCING,

COMPLIANCE WITH AASHTO LRFD BRIDGE

REV. 7-29-02: CHANGED ASTM

STANDARD 7' X 7' SQUARE CONCRETE NO. 42 **CATCH BASIN** 

D-CB-42SD

09-28-1998

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NOT TO SCALE