top/10-

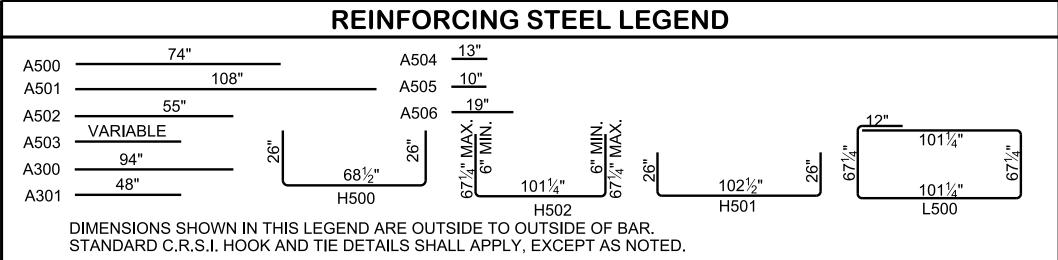
23/2020 9:12:25 AM \Users\jj00547\Desk

CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 20.00'

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	61	4.15
24	3	32	68	4.70
30	3½	39	75	5.24
36	4	46	82	5.78
42	4½	53	89	6.32
48	5	60	96	6.86
4 54	$5\frac{1}{2}$	67	103	7.40
4 60	6	74	110	7.95

- 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 WALLS ONLY.



GENERAL NOTES

- DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 43SC CONCRETE CATCH BASINS AND ALL PRECAST NO. 43SC 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BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING.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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM C913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.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'c = 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.

CTION

SE

2" CLEAR

3 EQ SPA

A301 (6 PLACES)

- 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.
- THE CONTRACTOR MAY ELIMINATE THE A503 BARS BY LENGTHENING THE VERTICAL LEG OF THE H500/H501 BARS SO THAT 1½ INCHES OF CLEAR COVER IS PROVIDED AT THE TOP OF THE STRUCTURE.
- 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.
- 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 24 INCH DEPTH SHALL BE MAINTAINED ABOVE THE OUTLET PIPE.
- SEE STANDARD DRAWING D-CBB-42 FOR DETAILS REGARDING CAST IRON GRATES.
- 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:

611-43.02. CATCH BASINS, TYPE 43, > 4'-8' DEPTH, 611-43.05, CATCH BASINS, TYPE 43, > 16'-20' DEPTH,

EACH. (THROUGH) EACH.

■ APPROVED BY FHWA (ALL OTHERS APPROVED BY TDOT)

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

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

SPECIFICATION IN GENERAL NOTE (C)

FOR COMPLIANCE WITH AASHTO LRFD

BRIDGE DESIGN SPECIFICATIONS, 4TH

REV. 8-01-12: REVISED CATCH BASIN

EDITION WITH INTERIMS. REVISED

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 $(\!ec{\mathsf{K}}\!)$.

BOX SECTION MINIMUM HEIGHTS.

REV. 02-20-2020: REDREW SHEET.

REINFORCING, GENERAL NOTES LEGEND AND ADDITIONAL MISC.

DRAFTING EDITS.

AND MINIMUM DEPTH

REV. 7-29-02: CHANGED ASTM

STANDARD 8'X5'2" RECTANGULAR **CONCRETE** NO. 43SC **CATCH BASIN**

D-CB-43SC

01-19-2000