

NOTE (C).

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

BAR DESIGNATED A501. REV. 7-29-02: CHANGED ASTM ■ REV. 1-19-99: ADDED CURB HEIGHT. SPECIFICATION IN GENERAL

■ REV. 5-27-01: CHANGED

REV. 9-11-02: CHANGED REINFORCING STEEL IN BASE SECTION.

PAY ITEMS IN GENERAL NOTE (J). ADDED CATCH BASIN MAXIMUM DEPTH NOTE.

REV. 9-5-98: CHANGED

LENGTH OF REINFORCING

REINFORCING STEEL LEGEND A500 H501 H500 A501 A502

		CATCH BASIN	DIMENSIONS		
INSIDE WIDTH OF CATCH BASIN (INCHES)	WALL WALTLHICKNESS HICKNESSW W (INCHES)	OUTSIDE WIDTH OF CATCH BASIN (INCHES)	MAX. INLET OR OUTLET CONC. PIPE SIZE - STR. (INCHES)	MAX. INLET OR OUTLET CONC. PIPE SIZE - 90 (INCHES)	DIMENSION C (INCHES)
84	(INCHES) 8	100	60	54	3.5

CUT-OUT HOLES FOR INLET & OUTLET PIPES							
INSIDE DIAMETER	DIAMETER OF CUT-OUT HOLES F & G - (INCHES)						
(X) OF PIPE (INCHES)	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE				
18	26	21	24				
24	32	27	31				
30	40	33	39				
36	47	40	45				
42	54	46	50				
48	61	52	56				
54	68	58					
60	75	64					

CUT- OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER

- CATCH BASIN MINIMUM DEPTH TABLE INSIDE MINIMUM DEPTH - (FEET) DIAMETER (X) OF PIPE CONCRETE CORRUGATED POLYETHYLENE METAL PIPE (INCHES) PIPE PIPE 18 4.21 4.00 4.13 24 4.50 4.67 4.71 30 5.29 5.25 5.00 36 5.75 5.83 5.54 42 6.38 6.04 6.21 48 6.54 6.92 6.71 54 7.46 7.04 ____ 60 8.00 7.54
- ELEVATION BASED ON INLET AND OUTLET PIPES BEING THE SAME DIAMETER, IF OUTLET PIPE IS GREATER ADJUSTMENT IN DEPTHS MUST BE MADE TO ACCOMMODATE THIS SITUATION.

(1) DEPTH MEASUREMENT MADE FROM TOP OF CURB TO OUTLET FLOW

- (2) MINIMUM DEPTH TO BE REDUCED BY DIMENSION "C" WHERE ONLY OUTLET PIPE EXISTS.
- (3) TO DETERMINE FLOOR OF CATCH BASIN ELEVATION, WHEN INLET AND OUTLET PIPES ARE THE SAME SIZE, ADD PIPE WALL THICKNESS PLUS 1.5" TO THE ABOVE MINIMUM DEPTHS.

GENERAL NOTES

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE AND ALL PRECAST NO. 42 CONCRETE CATCH BASINS.
- (B) CAST-IN-PLACE CONCRETE CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- (C) 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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM M913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.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.

- (D) 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
- (E) ADDITIONAL REINFORCING STEEL NECESSARY ABOVE THE CORED OR FORMED CUT-OUT HOLES TO MAINTAIN THE INTEGRITY OF THE STRUCTURE DURING HANDLING AND PLACEMENT SHALL BE THE
- (F) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE
- FABRICATOR TO ASSURE BALANCED HANDLING DURING INSTALLATION OF THE CATCH BASIN.
- (G) THE CONTRACTOR IS TO PATCH ALL LIFTING DEVICE HOLES AND PLACE A MINIMUM OF ONE(1) INCH OF COVER OVER THE HARDWARE OF THESE DEVICES ON BOTH TOP AND BOTTOM SURFACES.
- (H) INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO
- (I) SEE STANDARD DRAWING D-CBB-42 FOR DETAILS REGARDING CAST IRON GRATES.
- (J) PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611-42.02 CATCH BASINS, TYPE 42, > 4'-8' DEPTH THROUGH 611-42.07, CATCH BASINS, TYPE 42, > 24'-28' DEPTH PER EACH.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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

D-CB-42SD