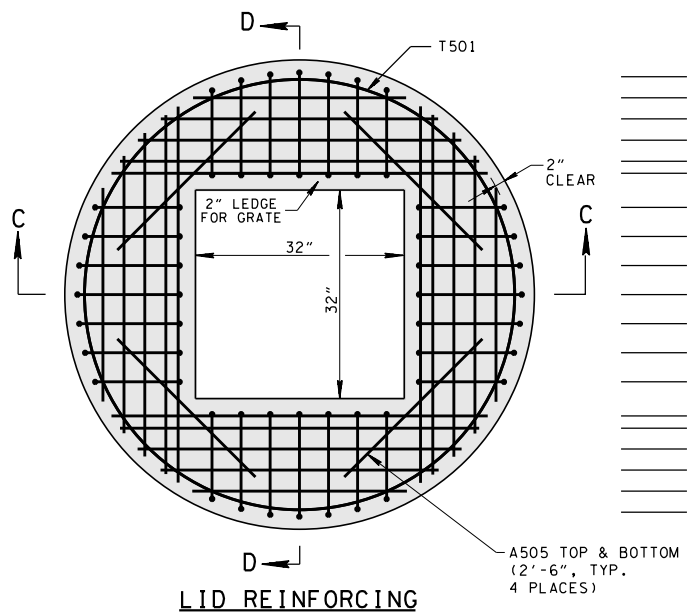
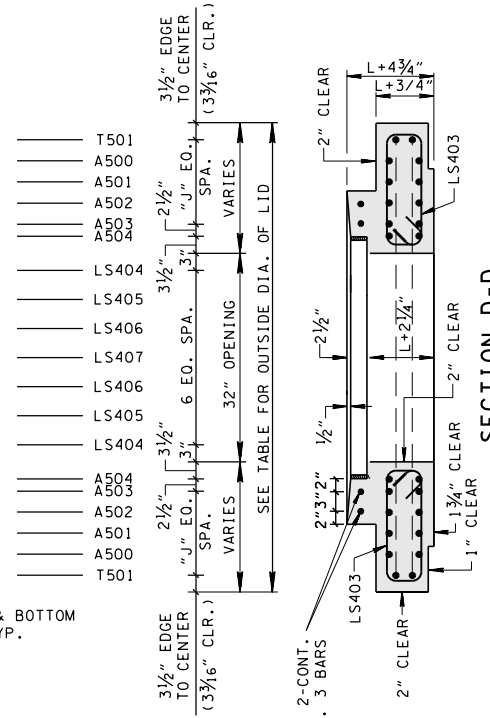


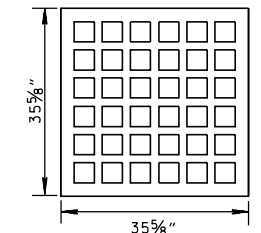
PLAN VIEW



LID REINFORCING



SECTION D-D



GRATE UNIT NO. 42
(SEE STD. DWG. D-CBB-42 FOR GRATE DETAILS)

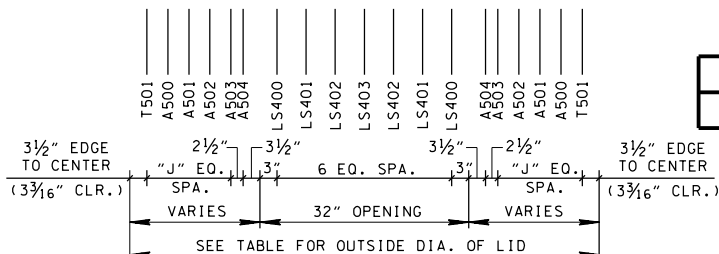
CATCH BASIN DIMENSIONS								FOR DESIGN USE ONLY CATCH BASIN MINIMUM DESIGN DEPTH (FEET)			
INSIDE DIAMETER (D) OF PIPE (INCHES)	PIPE WALL THICKNESS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	PRECAST SECTION HEIGHTS MIN. (INCHES)				60"	72"	84"	96"	
			60"	72"	84"	96"					
18	2 1/2	25	55 1/2	57	61 1/2	63	3.67	3.79	4.17	4.29	
24	3	32	62 1/2	64	68 1/2	70	4.21	4.33	4.71	4.83	
30	3 1/2	39	69 1/2	71	75 1/2	77	4.75	4.88	5.25	5.38	
36	4	46	76 1/2	78	82 1/2	84	5.29	5.42	5.79	5.92	
42	4 1/2	53	83 1/2	85	89 1/2	91	5.83	5.96	6.33	6.46	
48	5	60	90 1/2	92	96 1/2	98	6.38	6.50	6.88	7.00	
54	5 1/2	67	97 1/2	99	103 1/2	105	6.92	7.04	7.42	7.54	
60	6	74	104 1/2	106	110 1/2	112	7.46	7.58	7.96	8.08	
66	6 1/2	81	111 1/2	113	117 1/2	119	8.00	8.13	8.50	8.63	

VARIABLE REINFORCING DIMENSIONS AND SPACING IN CONCRETE LID

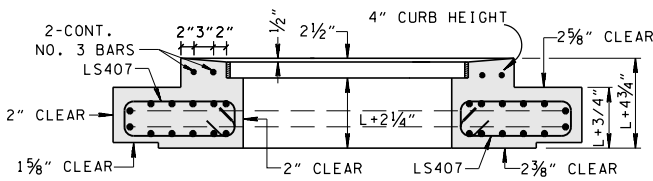
INSIDE DIA. OF CATCH BASIN (INCHES)	OUTSIDE DIA. OF LID (INCHES)	NO. OF EQUAL SPACES "J"
60	72	3
72	86	4
84	100	5
96	114	6

OUT-TO-OUT DIAMETER FOR T501 REINFORCING BARS EQUALS OUTSIDE DIAMETER OF LID MINUS 6 3/8 INCHES.

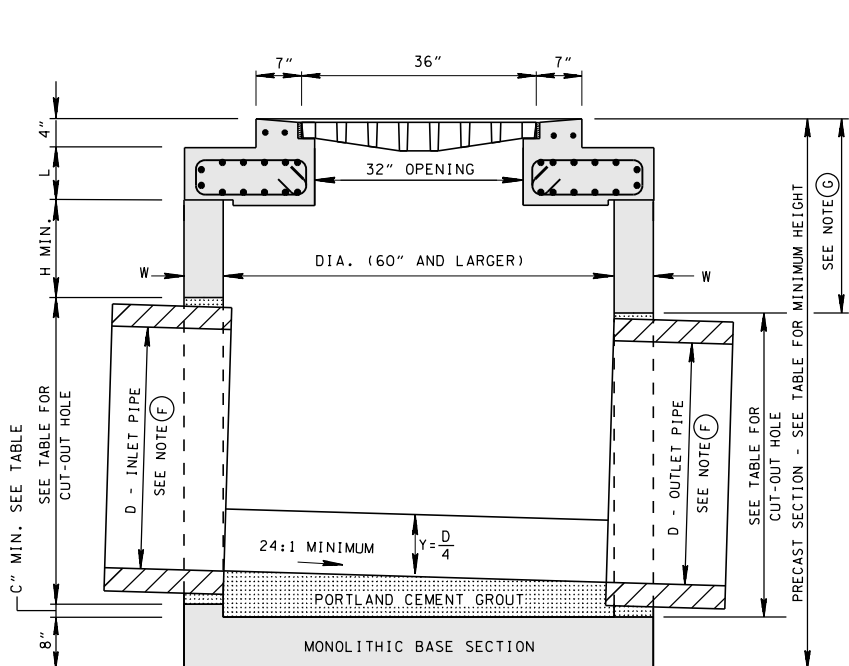
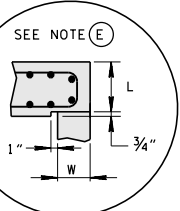
ADDITIONAL A-BARS ARE REQUIRED FOR THE LARGER STRUCTURES AS INDICATED BY "NO. OF EQ. SPACES 'J'."



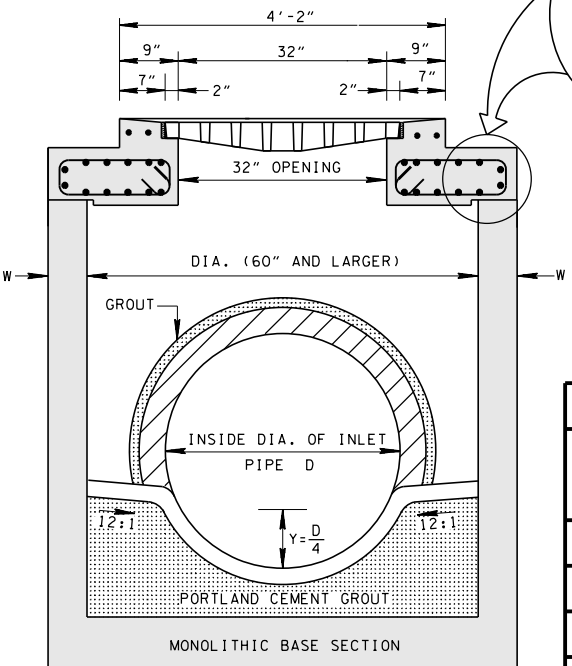
CATCH BASIN MAXIMUM DEPTH NOTE
MAXIMUM DEPTH FOR THIS STRUCTURE IS 40.00'.



SECTION C-C



SECTION A-A



SECTION B-B

CATCH BASIN DIMENSIONS							
INSIDE DIA. OF CATCH BASIN DIA. (INCHES)	WALL THICKNESS W (INCHES)	LID THICKNESS L (INCHES)	OUTSIDE DIA. OF CATCH BASIN DIA. + 2W (INCHES)	MAX. INLET OR OUTLET CONC. PIPE SIZE - STR. (INCHES)	MAX. INLET OR OUTLET CONC. PIPE SIZE - 90° (INCHES)	DIMENSION	
						C (INCHES)	H (INCHES)
60	6	8	72	36	24	2.5	8
72	7	9	86	48	30	3.0	8
84	8	9	100	60	36	3.5	12
96	9	10	114	66	42	4.0	12

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

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

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

- (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 UN CUT WILL NOT BE PERMITTED.

GENERAL NOTES

- (A) ALL PRECAST ELEMENTS TO MEET ASTM C478 (CURRENT EDITION) AND AASHTO M199 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.
- CONCRETE: $f'_c = 4,000$ 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.
- (B) 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.
- (C) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.
- (D) 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.
- (E) ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99R FOR ADDITIONAL DETAILS.
- (F) 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.
- (G) FOR CASES WHERE THE OUTLET PIPE DIAMETER IS LARGER THAN THE INLET PIPE DIAMETER, A MINIMUM 20 INCH DEPTH (FOR 60 INCH INSIDE DIAMETER CATCH BASIN), 21 INCH DEPTH (FOR 72 INCH INSIDE DIAMETER CATCH BASIN), 25 INCH DEPTH (FOR 84 INCH INSIDE DIAMETER CATCH BASIN) OR 26 INCH DEPTH (FOR 96 INCH INSIDE DIAMETER CATCH BASIN) SHALL BE MAINTAINED ABOVE THE OUTLET PIPE.
- (H) SEE STANDARD DRAWING D-CBB-42 FOR DETAILS REGARDING CAST IRON GRATE.
- (I) PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611-42.01 CATCH BASINS, TYPE 42, 0'-4' DEPTH THROUGH 611-42.07, CATCH BASINS, TYPE 42, > 24'-28' DEPTH PER EACH. PAYMENT FOR CATCH BASINS DEEPER THAN 28' WILL BE MADE UNDER ITEM NUMBER 611-42.08, CATCH BASINS, TYPE 42, ___' - ___' DEPTH PER EACH. PAYMENT INCLUDES GRATE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD PRECAST
CIRCULAR
NO. 42
CATCH BASIN