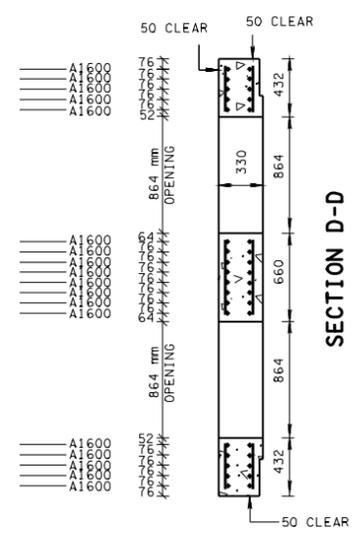
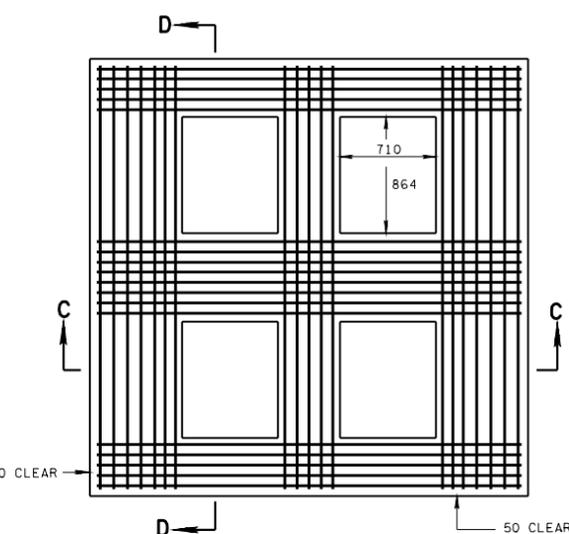


PLAN VIEW

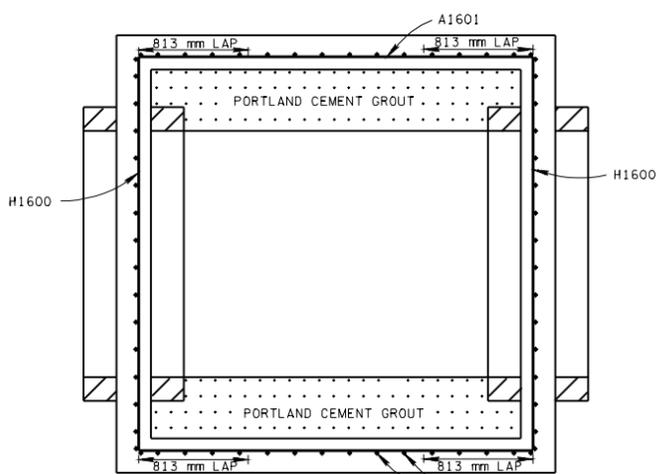


**CATCH BASIN MAXIMUM DEPTH NOTE**  
 MAXIMUM DEPTH FOR THIS STRUCTURE IS 8.5 m. WHEN DEPTH REQUIREMENTS EXCEED THIS DEPTH THE CONTRACTOR IS TO USE OTHER VERSIONS OF THE NO.46 CATCH BASIN, WHICH WILL BE SHOWN AS A DETAIL IN THE PLANS SECOND SHEETS.

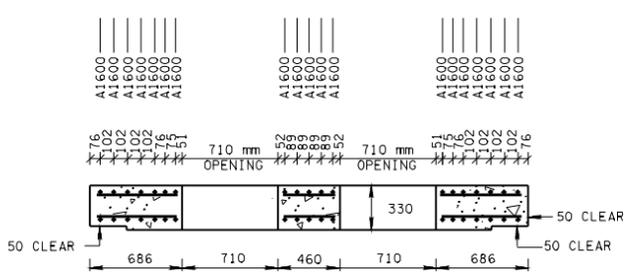
- REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE (J). ADDED CATCH BASIN MAXIMUM DEPTH NOTE. CHANGED SHEET NO. FROM DM-CB-46S TO DM-CB-46SE.
- REV. 5-30-02: MODIFIED REINFORCING STEEL.
- REV. 5-30-02: CHANGED REINFORCING STEEL IN BASE SECTION.

REINFORCING STEEL LEGEND					
3150	A1600	813	H1600	813	2870
2900	A1601				
VARIABLE	A1602				

CATCH BASIN DIMENSIONS					
INSIDE WIDTH OF CATCH BASIN (mm)	WALL THICKNESS W (mm)	OUTSIDE WIDTH OF CATCH BASIN (mm)	MAX. INLET OR OUTLET CONC. PIPE SIZE - STR. (mm)	MAX. INLET OR OUTLET CONC. PIPE SIZE - 90° (mm)	DIMENSION C (mm)
2743	254	3251	1950	1800	114



SECTION E-E



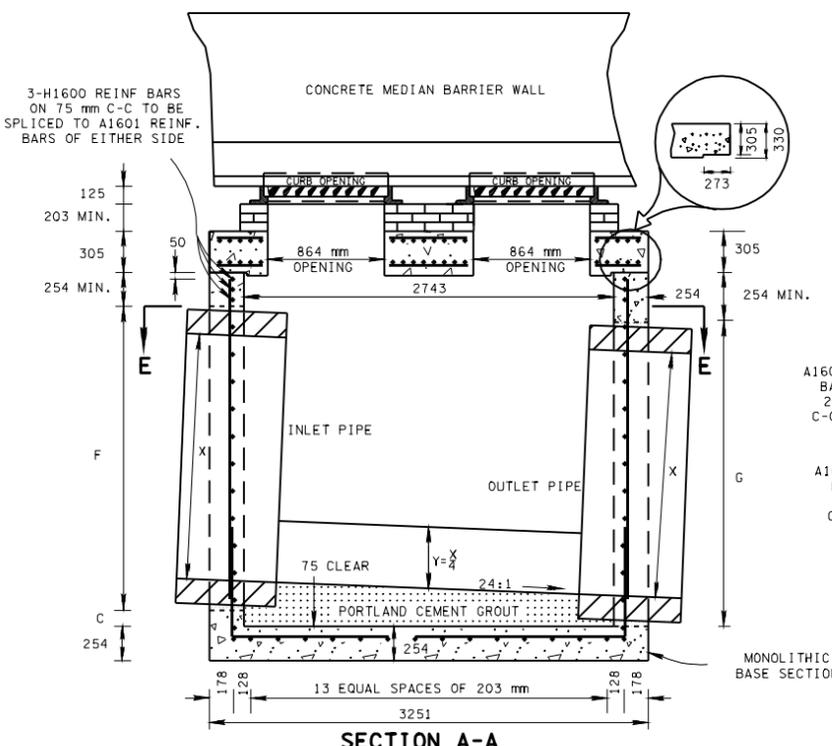
SECTION C-C

INSIDE DIAMETER (X) OF PIPE (mm)	DIAMETER OF CUT-OUT HOLES F & G - (mm)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
	450	660	535
600	815	685	785
750	1015	840	990
900	1195	1015	1145
1050	1370	1170	1270
1200	1550	1320	1420
1350	1730	1475	—
1500	1905	1625	—
1650	2085	1780	—
1800	2260	1930	—
1950	2440	2085	—

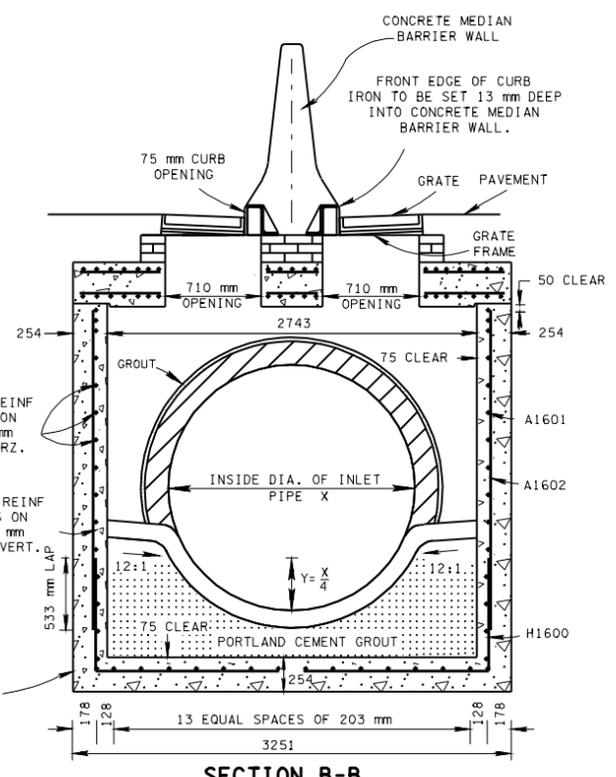
INSIDE DIAMETER (X) OF PIPE (mm)	MINIMUM DEPTH - ( m )		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	1.56	1.50	1.54
600	1.72	1.65	1.70
750	1.89	1.80	1.88
900	2.06	1.97	2.03
1050	2.22	2.12	2.17
1200	2.39	2.27	2.33
1350	2.55	2.43	—
1500	2.72	2.58	—
1650	2.88	2.73	—
1800	3.05	2.88	—
1950	3.21	3.04	—

- ① DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW 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.
- ② TO DETERMINE FLOOR OF CATCH BASIN ELEVATION, WHEN INLET AND OUTLET PIPES ARE THE SAME SIZE, ADD PIPE WALL THICKNESS PLUS 40 mm TO THE ABOVE MINIMUM DEPTHS.

CUT- OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER TO OBTAIN A SMOOTH EGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UN CUT WILL NOT BE PERMITTED.



SECTION A-A



SECTION B-B

**GENERAL NOTES**

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 46 CONCRETE CATCH BASINS AND ALL PRECAST NO. 46 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:  $f'c = 28 \text{ MPa}$  AT 28 DAYS  
 REINFORCING STEEL: ASTM A615M,  $f_y = 415 \text{ MPa}$   
 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 BASIN UNITS AT HIS OWN EXPENSE.
- (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 RESPONSIBILITY OF THE FABRICATOR.
- (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 25 mm 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 ACCOMMODATE INLET AND OUTLET PIPES.
- (I) SEE STANDARD DRAWING DM-CBB-31 FOR DETAILS REGARDING CAST IRON GRATES.
- (J) PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611M46.02 CATCH BASINS, TYPE 46, > 1m-2m DEPTH THROUGH 611M46.09, CATCH BASINS, TYPE 46, > 8m-9m DEPTH PER EACH.



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

STANDARD  
 2743 mm X 2743 mm  
 SQUARE CONCRETE  
 NO. 46 CATCH BASIN  
 (FOR USE UNDER CONCRETE  
 MEDIAN BARRIER WALL)