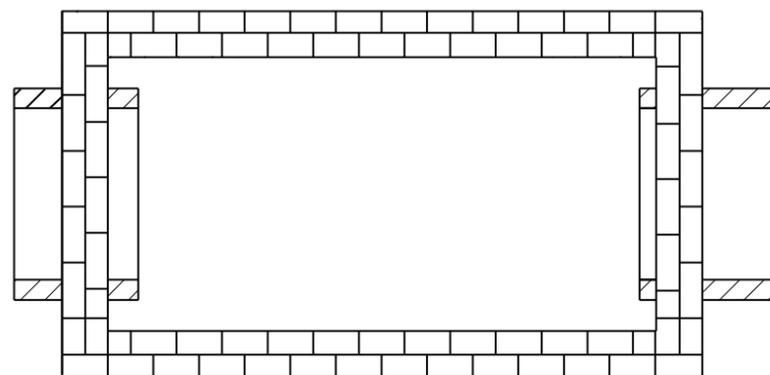
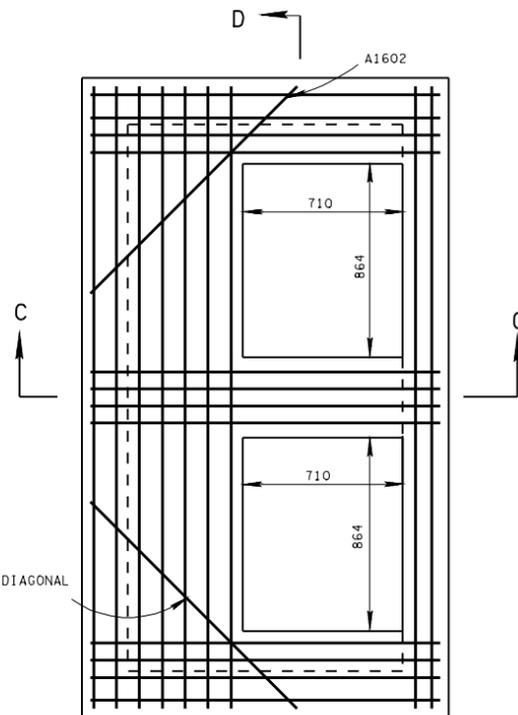


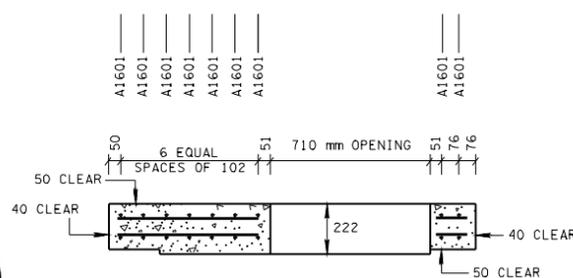
PLAN VIEW



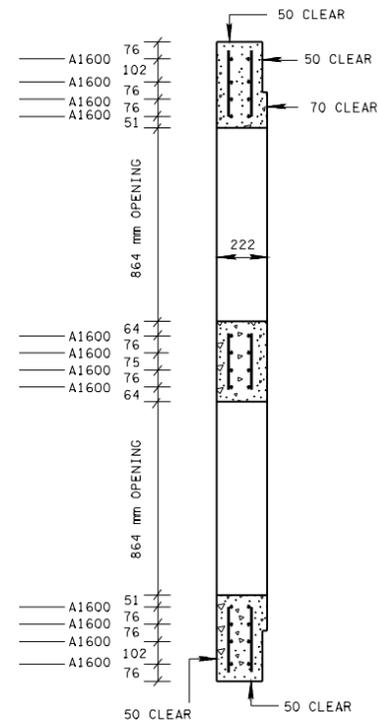
SECTION E-E



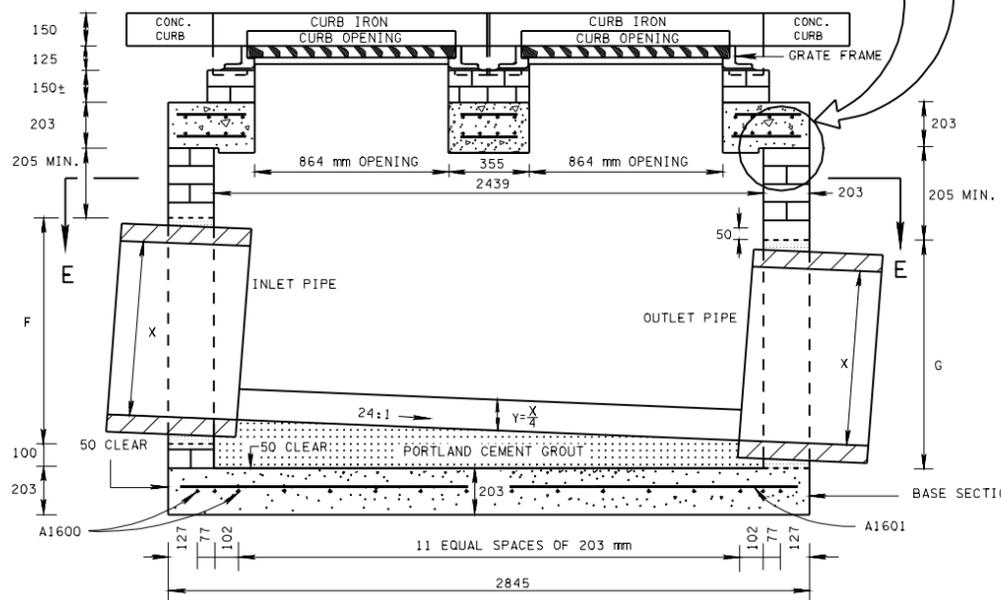
PLAN VIEW



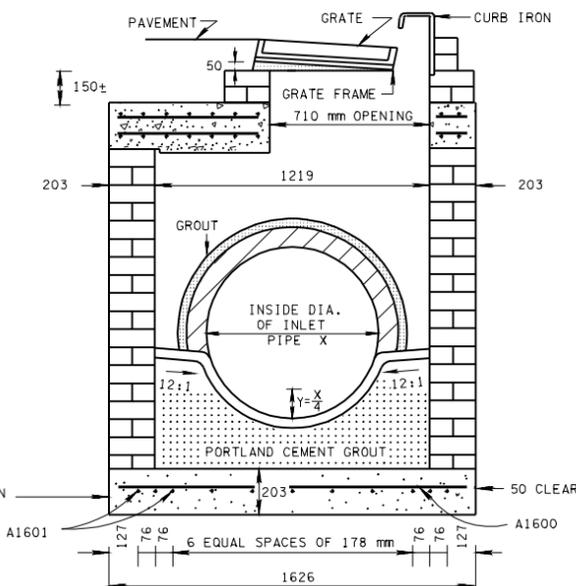
SECTION C-C



SECTION D-D



SECTION A-A



SECTION B-B

- REV. 7-29-99: ELIMINATED 900 mm PIPE FROM MINIMUM DEPTH TABLE.
- REV. 10-26-00: MODIFIED GENERAL NOTE (A).
- REV. 5-27-01: CHANGED PAY ITEM IN GENERAL NOTE (1).
- REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE (C).
- REV. 4-15-97: MODIFIED DRAWING NO. DM-CB-14B BY CHANGING INSIDE WIDTH OF STRUCTURE FROM 914 TO 1219.
- REV. 9-5-97: CHANGED MINIMUM DEPTH TABLE AND MODIFIED LID REINFORCING STEEL.
- REV. 1-19-99: MODIFIED CATCH BASIN MINIMUM DEPTH TABLE.

CATCH BASIN MINIMUM DEPTH TABLE			
INSIDE DIAMETER (X) OF PIPE (mm)	MINIMUM DEPTH - (m)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	1.35	1.28	1.32
600	1.50	1.44	1.49
750	1.68	1.59	1.66

- (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 INLET & OUTLET PIPES			
INSIDE DIAMETER (X) OF PIPE (mm)	DIAMETER OF CUT-OUT HOLES F & G - (MILLIMETERS)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	660	535	610
600	815	685	785
750	1015	840	990

- (1) 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.

GENERAL NOTES

- (A) DRAWING TO BE USED FOR NO. 16 BRICK CATCH BASINS THAT ARE 1.8 METER AND LESS IN DEPTH. SEE STANDARD DRAWING DM-CB-16S FOR DETAILS OF NO. 16 CONCRETE CATCH BASINS THAT ARE MORE THAN 1.8 METER IN DEPTH.
- (B) CAST-IN-PLACE CONCRETE USED IN BRICK 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 USED FOR LIDS AND FLOORS 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) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR TO ASSURE BALANCED HANDLING DURING INSTALLATION OF THE CATCH BASIN.
- (F) 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.
- (G) INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
- (H) SEE STANDARD DRAWING DM-CBB-12A FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- (I) PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBER 611M16.02 CATCH BASINS, TYPE 16, > 1m-2m DEPTH PER EACH.

REINFORCING STEEL LEGEND	
	A1600
	A1601
	A1602



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD RECTANGULAR BRICK NO. 16 CATCH BASIN

4-15-97 **DM-CB-16B**