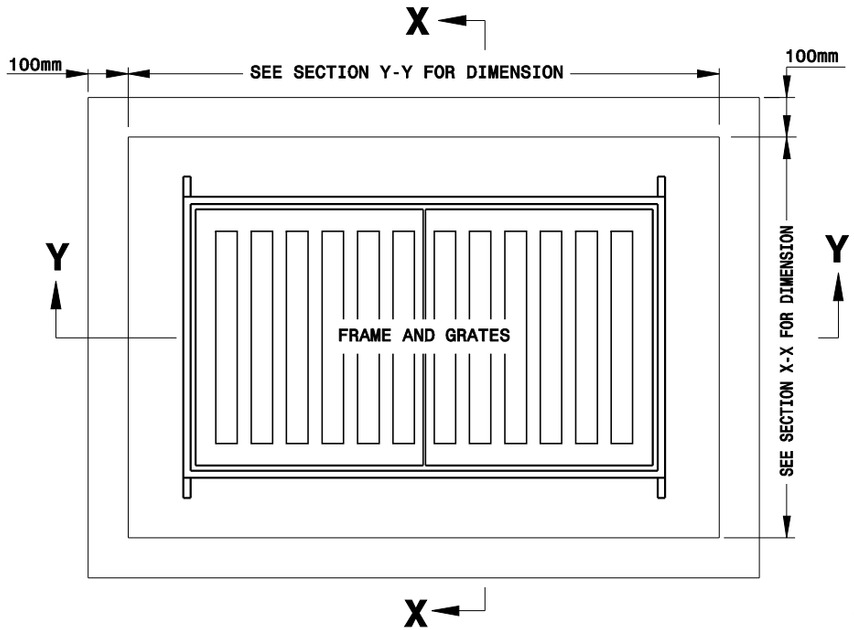
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

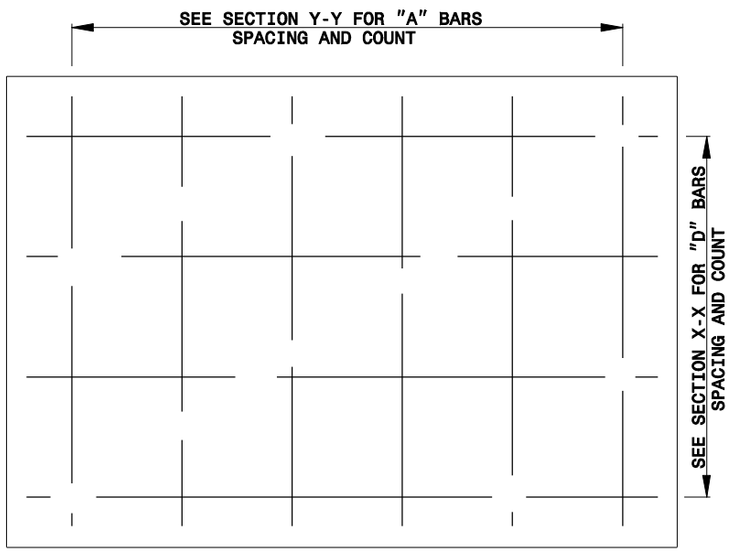
METRIC STANDARD DRAWING FOR

TRAFFIC BEARING GRATED DROP INLET

FOR STEEL (840.37) DOUBLE FRAME AND GRATES



PLAN

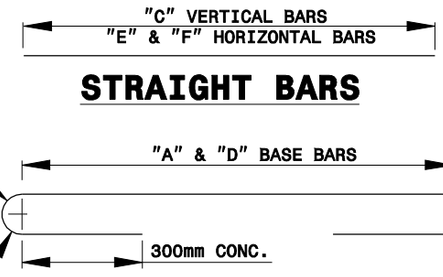


PLAN OF BASE

Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

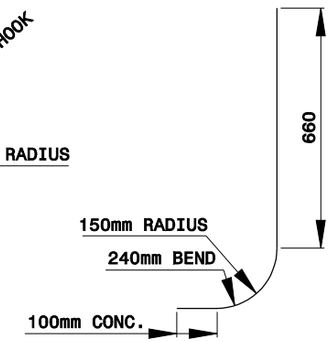
BILL OF MATERIALS

COMMON		CONCRETE ALT.		
BAR	SIZE	LENGTH	QUANTITY	WEIGHT
A	#16	1945	6	18
B	#16	1000	16	25
C	#16	815	14	18
D	#16	2450	4	15
E	#16	915	20	28
F	#16	1420	20	44
REINF. STEEL (TOTAL WEIGHT kgs.)				148
CONCRETE IN BASE (m^3)				0.42
CONCRETE IN WALLS (m^3)				0.69
CONCRETE TOTAL (m^3)				1.11
CONC. m^3 IN WALL/METER OF HEIGHT				0.87
kgs. OF REINF. STEEL IN WALL/METER OF HEIGHT				143



STRAIGHT BARS

BASE BARS



CORNER BARS

GENERAL NOTES:
- USE CLASS 'AA' CONCRETE.
- CHAMFER ALL EXPOSED CONCRETE CORNERS 25mm.
- USE FORMS TO CONSTRUCT THE BASE SLAB.
- IF PIPES ARE SET IN THE BASE SHALL FOLLOW CONSTRUCTION PROCEDURES SHOWN BY STD. DWG. 840.00.
- INCLUDE REINFORCING STEEL COST IN THE UNIT OR PER METER BID PRICE FOR "MASONRY DRAINAGE STRUCTURE".
- REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
- PROVIDE DROP INLETS OVER 1.0m DEEP WITH STEPS SPACED 300mm ON CENTER AS DIRECTED BY STD. DWG. 840.66.
- FRAME AND GRATES ARE SEPARATE CONTRACT ITEM.

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SHEET 2 OF 2
840.36