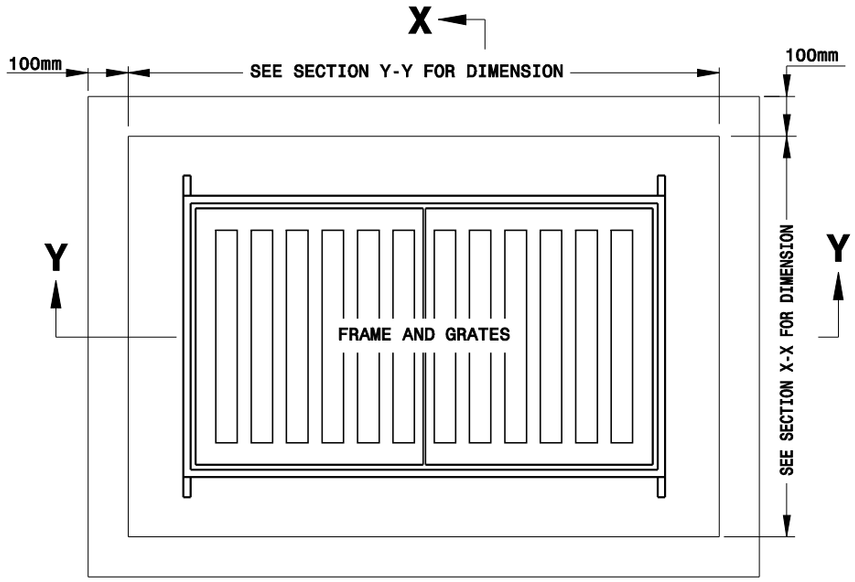
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

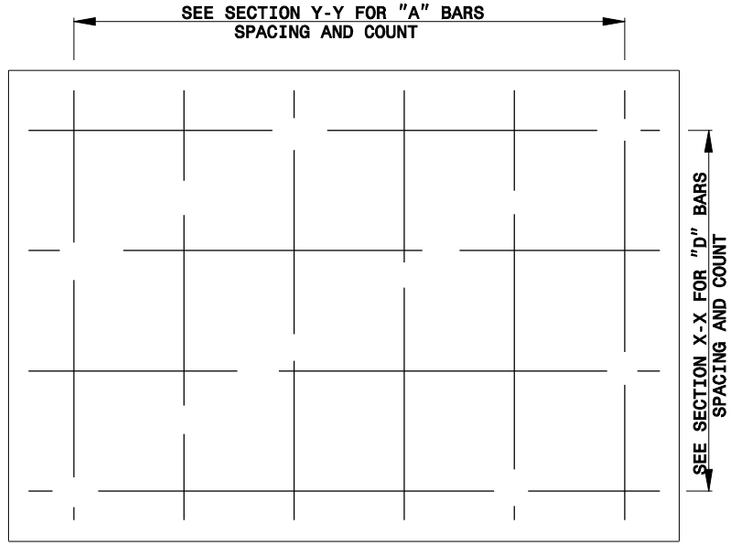
METRIC STANDARD DRAWING FOR

TRAFFIC BEARING GRATED DROP INLET

FOR CAST IRON DOUBLE FRAME AND GRATES



PLAN

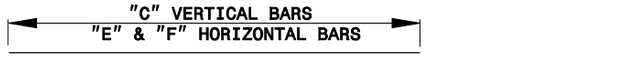


PLAN OF BASE

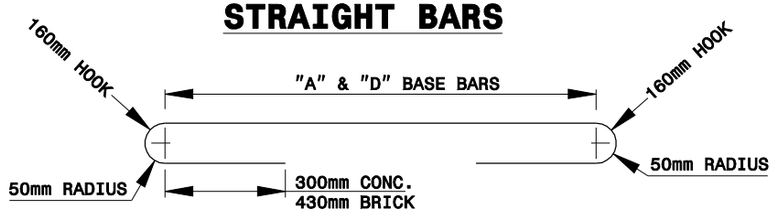
Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

BILL OF MATERIALS

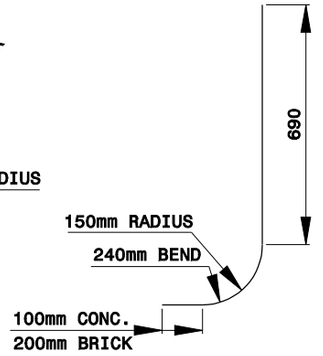
COMMON		CONCRETE ALT.			BRICK ALT.		
BAR	SIZE	LENGTH	QUANTITY	WEIGHT	LENGTH	QUANTITY	WEIGHT
A	#16	1945	6	18	2325	6	22
B	#16	1030	16	26	1150	16	29
C	#16	815	14	18	0	0	0
D	#16	2450	4	15	2830	4	18
E	#16	915	20	28	915	10	14
F	#16	1420	20	44	1420	10	22
REINF. STEEL (TOTAL WEIGHT kgs.)				149			105
CONCRETE IN BASE (m^3)				0.42			0.50
CONCRETE IN WALLS (m^3)				0.69			0.28
BRICK IN WALLS (m^3)				0			0.70
CONCRETE TOTAL (m^3)				1.11			0.78
BRICK & CONCRETE TOTAL (m^3)				1.11			1.48
CONC. m^3 IN WALL/METER OF HEIGHT				0.87			0.34
BRICK m^3 IN WALL/m OF HEIGHT				0			1.20
kgs. OF REINF. STEEL IN WALL/METER OF HEIGHT				143			62



STRAIGHT BARS



BASE BARS



CORNER BARS

GENERAL NOTES:
- -USE CLASS 'AA' CONCRETE FOR CAST IN PLACE CONCRETE BOX.
- -USE CLASS 'M' CONCRETE IN THE WALL CAVITY FOR REINFORCED BRICK CONSTRUCTION AND CLASS 'AA' FOR THE FOOTING BASE.
- -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.
- -PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BRICK MASONRY CONSTRUCTION.
- -INCLUDE REINFORCING STEEL COST IN THE UNIT OR PER METER BID PRICE FOR "MASONRY DRAINAGE STRUCTURE".
- -REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
- -CONCRETE BRICK, JUMBO BRICK AND 100mm SOLID CONCRETE BLOCK WILL BE PERMITTED
- -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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