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

7-06

METRIC STANDARD DRAWING FOR

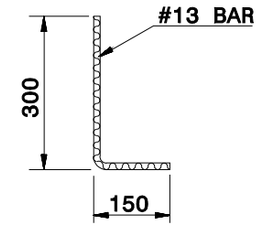
SPRING BOX

CONCRETE OR BRICK

TABLE OF QTY.'S FOR CONC. SPRING BOX			
FILL HEIGHT	TOP SLAB THICKNESS	CONC. m^3	REINF. kg
7620 OR LESS	152	0.552	9
7925 THRU 15240*	165	0.563	9
15545 THRU 22860	191	0.567	9
23165 THRU 30480	216	0.605	9

TABLE OF QUANTITIES FOR BRICK SPRING BOX					
FILL HEIGHT	TOP SLAB THICKNESS	CONC. M^3	BRICK m^3	TOTAL m^3	REINF. kg
7620 OR LESS	152	0.409	0.302	0.711	10
7925 THRU 15240*	165	0.422	0.302	0.724	10
15545 THRU 22860	191	0.448	0.302	0.750	10
23165 THRU 30480	216	0.474	0.302	0.776	10

* USE THIS TOP SLAB FOR LIVE LOAD UP TO 610mm OF FILL.



DOWEL

GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

OPTIONAL CONSTRUCTION OF CONCRETE BOX - MONOLITHIC POUR, 50mm KEYWAY, OR #13 BAR DOWELS AT 300mm CENTERS AS DIRECTED BY THE ENGINEER.

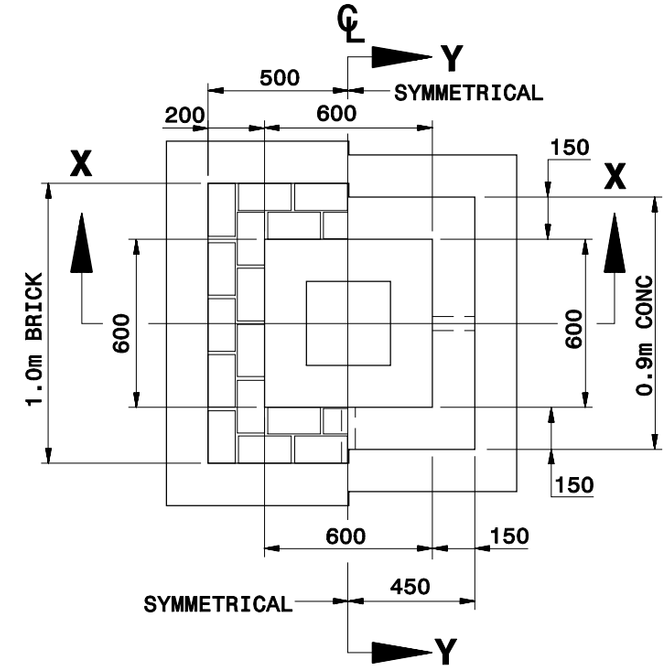
USE #10 STRAIGHT BARS REINFORCING STEEL (A-BARS), 12 BARS REQUIRED 840mm LONG FOR CONCRETE BOX AND 940mm LONG FOR BRICK BOX.

DIMENSIONS OF BOX MAY BE CHANGED BY THE ENGINEER.

MORTAR JOINTS 13mm ± 3mm THICK.
CONCAVE TOOL ALL EXPOSED JOINTS.

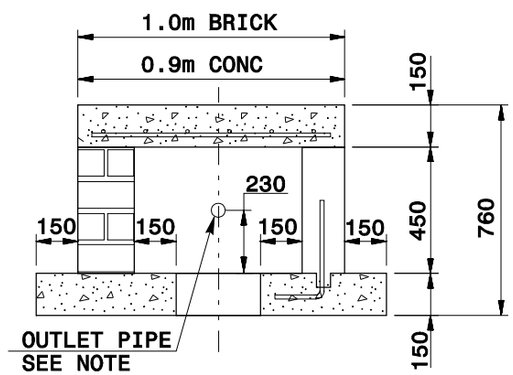
USE FORMS TO CONSTRUCT THE BASE SLAB.

JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 100mm SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK.

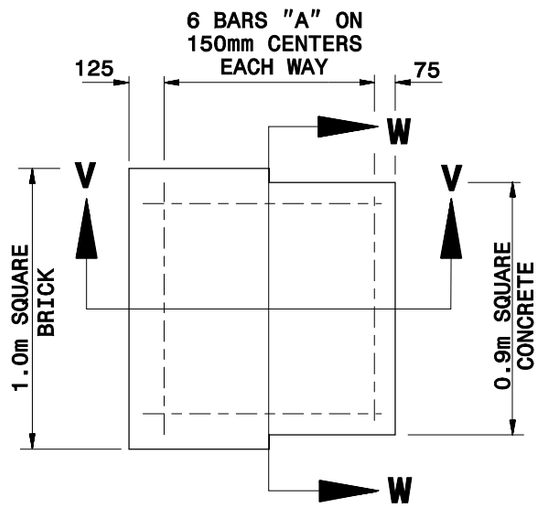


PLAN

COVER REMOVED

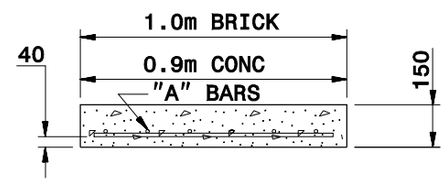


SECTION X-X OR Y-Y



PLAN OF COVER

FOR BRICK BOX - FOR CONCRETE BOX



SECTION V-V OR W-W

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

SHEET 1 OF 1

840.41

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