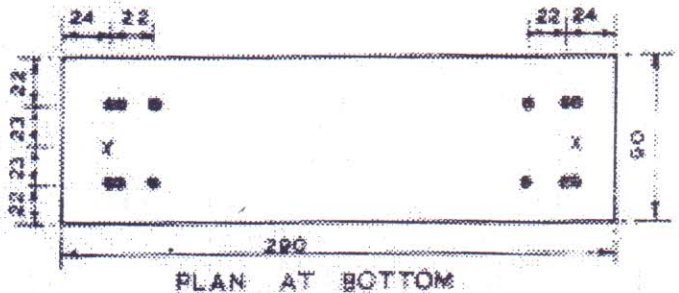
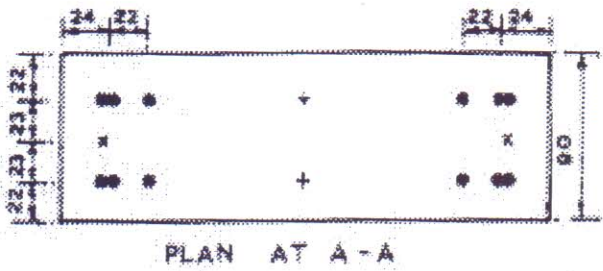
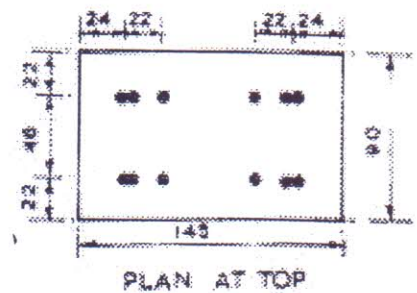
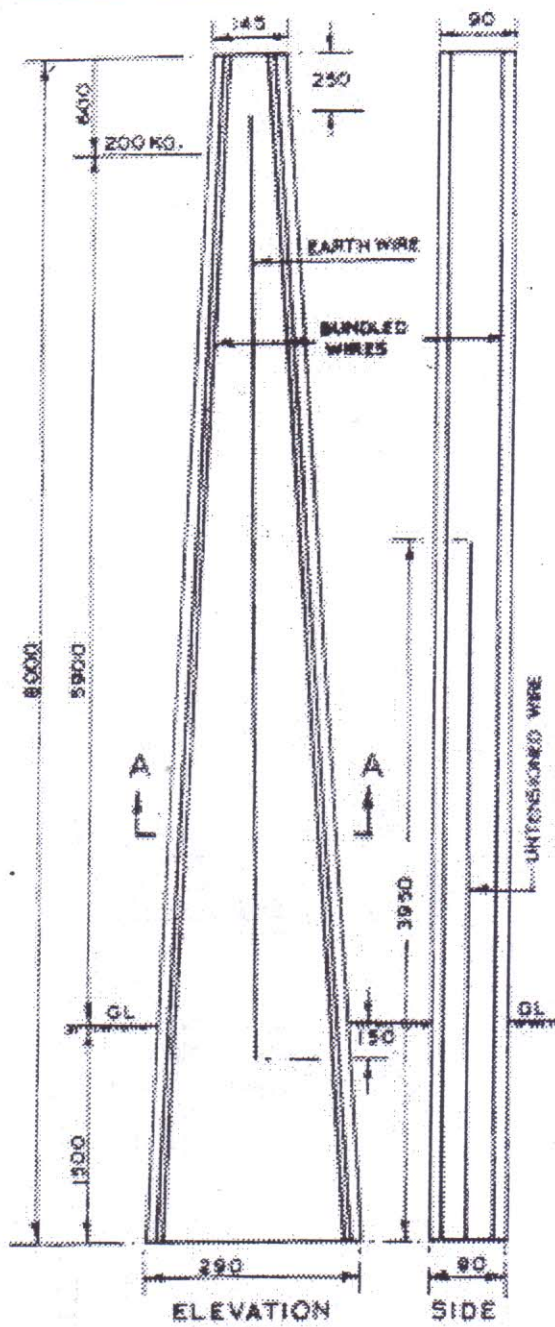


चित्र सं. ७:- पूर्वबलित ठोस आयताकार स्तम्भे का प्रबलन विवरण
(९.० मी./९.५ मी. व. लौ. ३०० कि. ग्राम)

DRG. NO. :- 7- REINFORCEMENT DETAILS FOR PRESTRESSED
CONCRETE SOLID RECTANGULAR POLE
(9.0M/9.5M W.L. 300 Kg.)



FACTOR OF SAFETY	2.5
CONCRETE GRADE	M-420
DIAMETER OF PRESTRESSING WIRE	4 mm
ULTIMATE TENSILE STRENGTH OF PRESTRESSING WIRE	17500 kg/cm ²
NUMBER OF TENSIONED WIRES	12
NUMBER OF UNTENSIONED WIRES	2
CONCRETE QUANTITY PER POLE	0.157 m ³
STEEL QUANTITY PER POLE	10.25 kg
WEIGHT OF POLE	380 kg
CLEAR COVER TO WIRES	20 mm
LOCATION OF HOLES AS PER REC STANDARDS	
●	DENOTES TENSIONED WIRES
x	DENOTES UNTENSIONED WIRES
+	POSSIBLE POSITION OF EARTH WIRE

ALL DIMENSIONS ARE IN mm
DRAWING NOT TO SCALE

NOTES

- FOR HOLDING PART LENGTH UNTENSIONED WIRES IN POSITION, 4mm M.S. STIRRUPS MAY BE USED WITH SUITABLE SPACING.
- IF ANY PRACTICAL DIFFICULTY IS EXPERIENCED IN USING PART LENGTH UNTENSIONED WIRES, FULL LENGTH WIRES MAY BE USED INSTEAD, BUT THE TENSION IN THESE WIRES SHOULD NOT EXCEED 5% OF THEIR U.T.S VALUE, HOWEVER IT MAY BE NOTED THAT USE OF PART LENGTH UNTENSIONED WIRES WILL BE MORE ECONOMICAL.
- THE ALTERNATIVE OF USING FULL LENGTH WIRES INSTEAD OF PART LENGTH UNTENSIONED WIRES IS NOT FEASIBLE IF THE POLE IS TO BE USED FOR L.T LINES WITH VERTICAL CONFIGURATION. THIS IS BECAUSE OF NON-AVAILABILITY OF SUFFICIENT CLEARANCE BETWEEN THE EXTENDED FULL LENGTH WIRES AND THE HOLES TO BE PROVIDED IN THE POLE FOR FIXING THE SHACKLE INSULATORS.

चित्र संख्या ४ :- पूर्वबलित कंकरीट छम्भे का विवरण
DRG.NO.4 :- REINFORCEMENT DETAILS OF 8.0M / 200 Kg.
PRESTRESSED CONCRETE POLE (FACTOR OF SAFETY = 2.5)