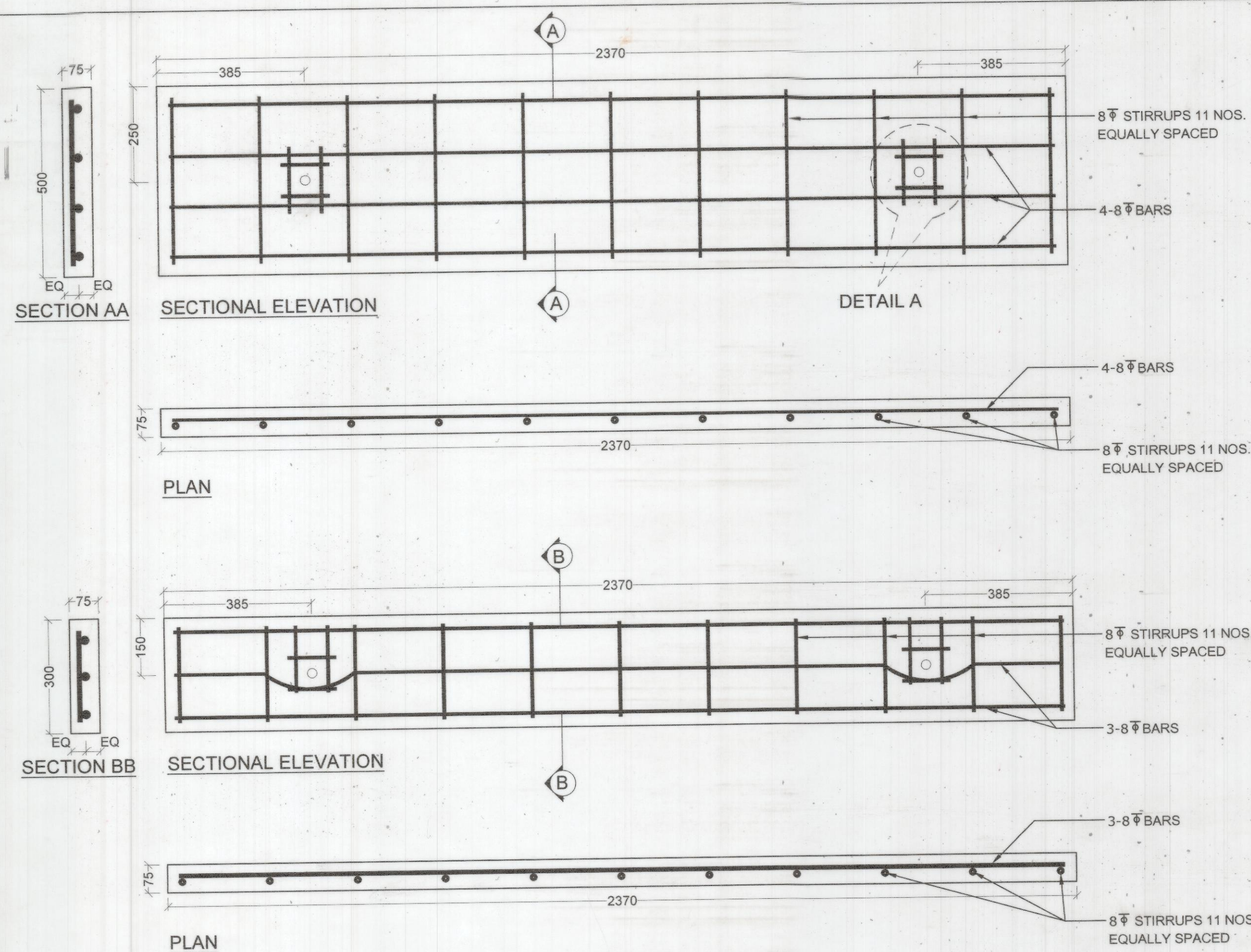
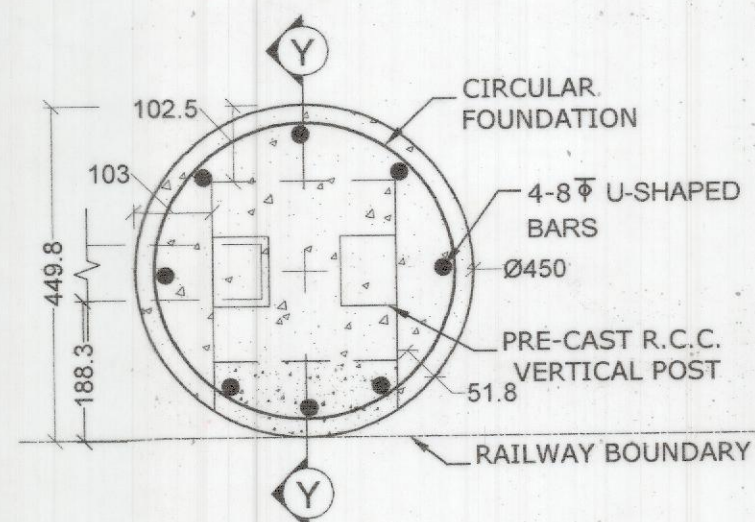
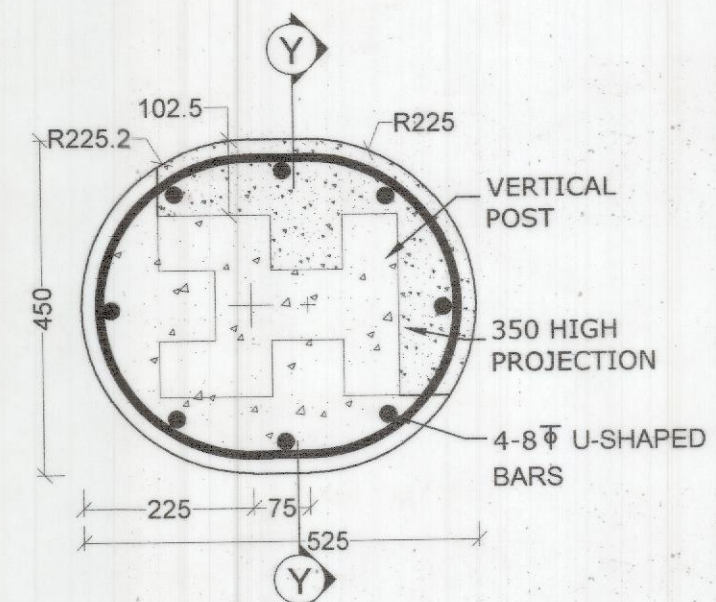




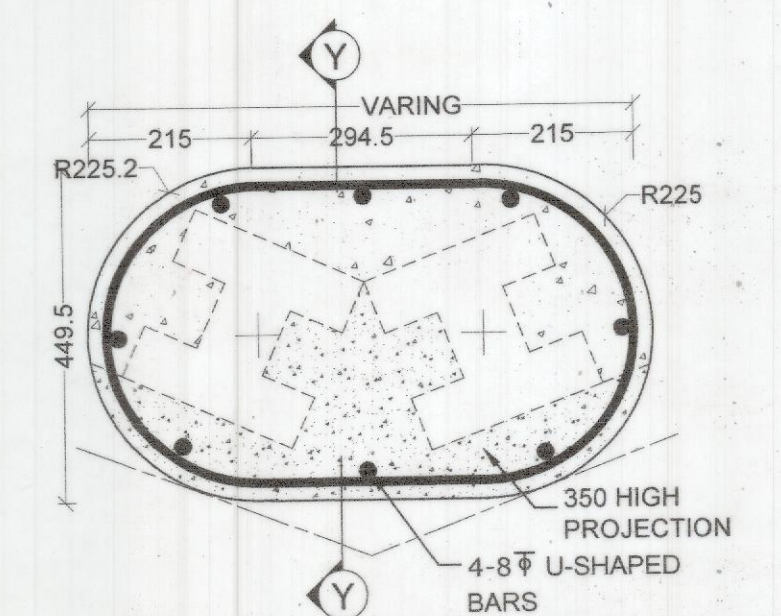
PRECAST R.C.C. PANEL DETAILS



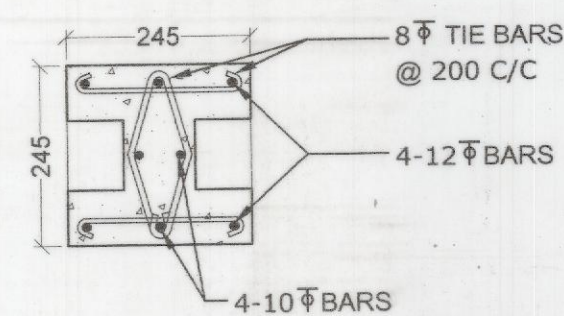
CIRCULAR FOUNDATION



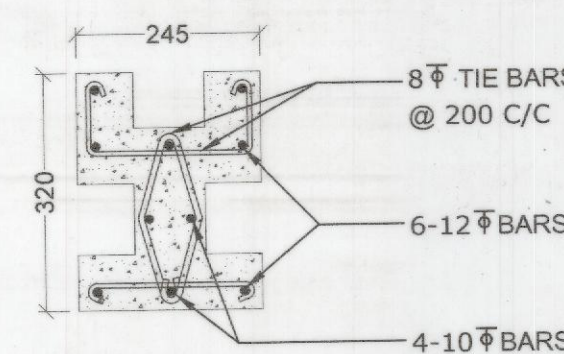
ELLIPTICAL FOUNDATION (FOR CORNER JUNCTION AT RIGHT ANGLE)



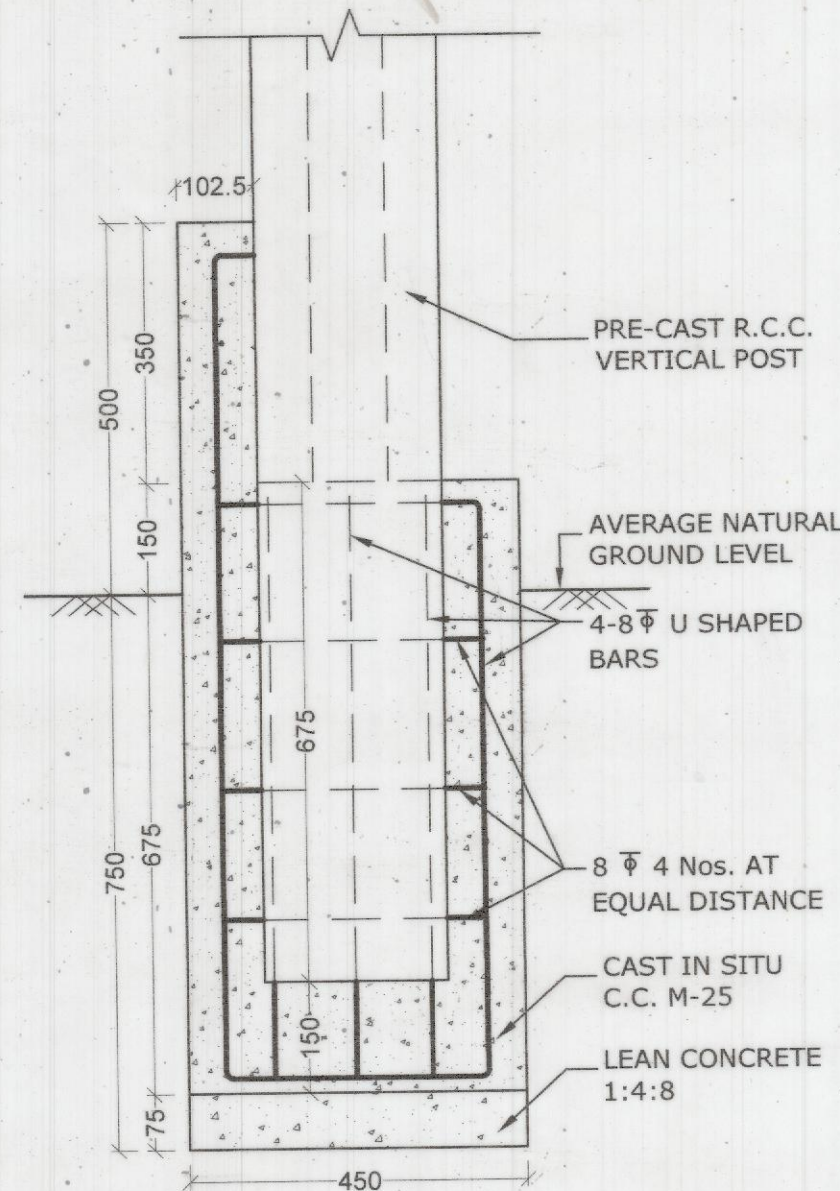
PLAN - CUSTOMISED FOUNDATION (FOR CORNER JUNCTION AT AN ANGLE)



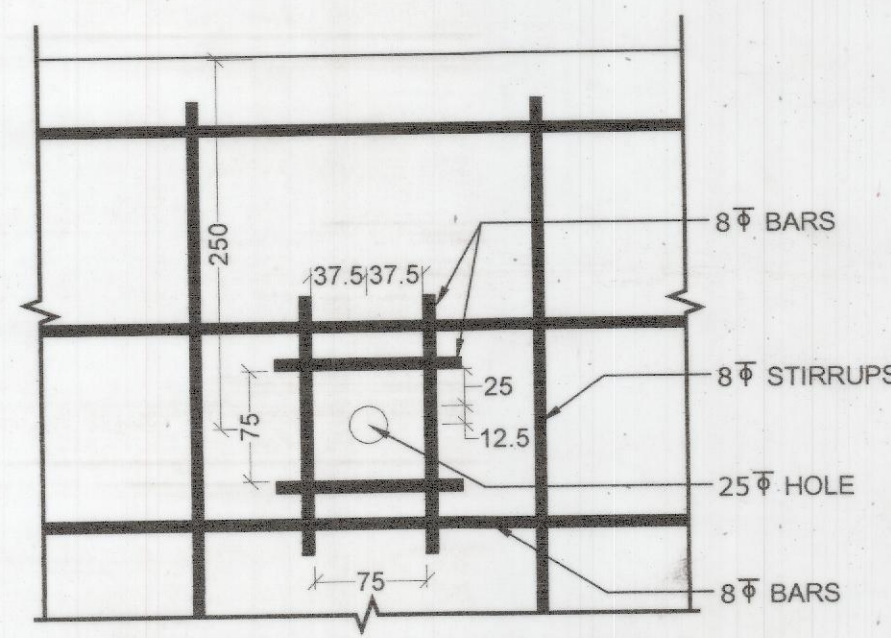
VERTICAL POST



VERTICAL POST (FOR CORNER JUNCTION AT RIGHT ANGLE)



SECTION YY



DETAIL A : 25mm DIA HOLE DETAILS (SCALE 1:5)

SHAPE & SCHEDULE OF REINFORCEMENT			
ITEM	SHAPE	REINFORCEMENT	
		HORIZONTAL	VERTICAL
PRE-CAST R.C.C. PANEL		LENGTH = 2320 NOS. = 4 (for 500 panel) = 3 (for 300 panel)	LENGTH = 450 (for 500 panel) = 250 (for 300 panel) NOS. = 11
25# HOLE		LENGTH = 125 NOS. = 02	LENGTH = 175 NOS. = 02
PRE-CAST VERTICAL POST		LENGTH = 250 NOS. = 26 LENGTH = 550 NOS. = 13 LENGTH = 250 NOS. = 13 LENGTH = 500 NOS. = 13 LENGTH = 550 NOS. = 13	LENGTH = 2600 NO. = 4 (12# BAR) = 4 (10# BAR) LENGTH = 2600 NO. = 6 (12# BAR) = 4 (10# BAR)
FOUNDATION		LENGTH = 400 NOS. = 02 LENGTH = 1300 NOS. = 04 LENGTH = 800 NOS. = 02 LENGTH = 1450 NOS. = 04 LENGTH = 1000 NOS. = 02 LENGTH = 2000 NOS. = 04	LENGTH = 2000 NOS. = 01 LENGTH = 2350 NOS. = 03 LENGTH = 2075 NOS. = 01 LENGTH = 2350 NOS. = 03 LENGTH = 2250 NOS. = 01 LENGTH = 2350 NOS. = 03

N.R.H.Q.E. PLAN No. HQ/10/11-2014

N.R.TYPE PLAN No. F-82

IN SHEETS: 2
SHEET No. 2

NOTES:-

- FOR GENERAL ARRANGEMENT SEE SHEET NO.1.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- R.C.C. WORK FOUNDATION SHALL BE IN MIX M-25 AS PER I.S: 456-2000.
- CONCRETING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS LAID DOWN IN I.S:456-2000.
- PRECAST R.C.C. PANEL & VERTICAL POST SHALL BE IN MIX M-30 AS PER IS:456-2000.
- U-SHAPED BARS SPACING TO BE ADJUSTED AS PER SITE REQUIREMENT.
- CURING WILL BE DONE USING CURING COMPOUND.
- PROPER CURING OF CONCRETE TO ACQUIRE HARDNESS, STRENGTH AND OTHER PROPERTIES, ESSENTIAL FOR SATISFACTORY SERVICE SHALL BE ENSURED.
- ALL CONCRETE SHALL BE MECHANICALLY MIXED AND VIBRATED.
- CAP SHOULD BE CAST AT SITE & BOUND WITH VERTICAL REINFORCEMENT BARS.
- REINFORCEMENT WILL BE OF HIGH YIELD STRENGTH COLD TWISTED BARS CONFORMING TO IS: 1786-1985.
- PARTICULAR CARE MUST BE TAKEN TO ENSURE THAT NO SAG OCCURS IN THE REINFORCING BARS DURING CONSTRUCTION.
- STIRRUPS ARE EFFECTIVELY TIED WITH WIRE TO THE MAIN REINFORCING BARS.
- THE NUMBER OF BARS SHOULD BE PROVIDED AS MENTIONED ON THE DRAWING.
- ALL R.C.C. WORK MUST BE CARRIED OUT UNDER THE PERSONAL SUPERVISION OF AN EXPERIENCED CIVIL ENGINEER.
- ASSUMED SAFE BEARING CAPACITY OF SOIL 10 Ton/m².
- AFTER PLACING THE PRECAST PANEL IN POSITION THE GAP BETWEEN THE VERTICAL POST AND THE PRECAST PANEL WILL BE FILLED UP WITH CEMENT MORTAR TO ENSURE PROPER BOND BETWEEN THE TWO.
- 25 Ø HOLES TO BE PROVIDED HORIZONTALLY AS SHOWN IN ELEVATION.
- PRECAST WALL PANELS SHALL BE OF TWO SIZES I.E., 300 x 75 & 500 x 75.
- TEXT SHOULD BE ENGRAVED IN STEEL SHUTTERING & SUBSEQUENTLY PAINTED IN RED.
- SEQUENCE OF CONSTRUCTION:
 - EXCAVATION FOR FOUNDATION SHALL BE DONE PREFERABLY USING MECHANICAL AUGER.
 - LEAN CONCRETE SHALL BE LAID.
 - THEN REINFORCEMENT FOR FOUNDATION SHALL BE LAID.
 - PRECAST VERTICAL POST SHALL BE PLACED IN POSITION TRUE TO PLUMB & AT EXACT SPACING BY USING TEMPLATE MADE OF WOODEN/ PRE-LAMINATED BOARD.
 - CONCRETING OF FOUNDATION WILL BE DONE.
 - PRECAST PANELS SHALL BE INSERTED.
 - WHEREVER REQUIRED SUITABLE PRECAST PCC SUPPORTING BLOCKS SHALL BE USED.
 - CONCRETING OF TOP CAP SHALL BE DONE.
 - GAP BETWEEN VERTICAL POST & PANEL WILL BE FILLED WITH 1:3 CEMENT SAND MORTAR.

REVISIONS

Revision No.	Date	Description	Initial

3/9/2014
(A.V.MITTAL)
DY.CE./P&D

Arvind Verma
(ARVIND VERMA)
AXEN/P&D

NORTHERN RAILWAY

BOUNDARY WALL
USING PRECAST R.C.C.
COMPONENTS

STRUCTURAL DETAILS (CAST IN-SITU
COLUMN FOUNDATION, PRECAST VERTICAL
POST & PANELS.

SCALE:- 1:10 @A2

CANCELS PLAN NO:

HQ. CASE NO:

N.R.H.Q.E. PLAN No. HQ/10/11-2014

N.R.TYPE PLAN No. F-82

IN SHEETS: 2
SHEET No. 2