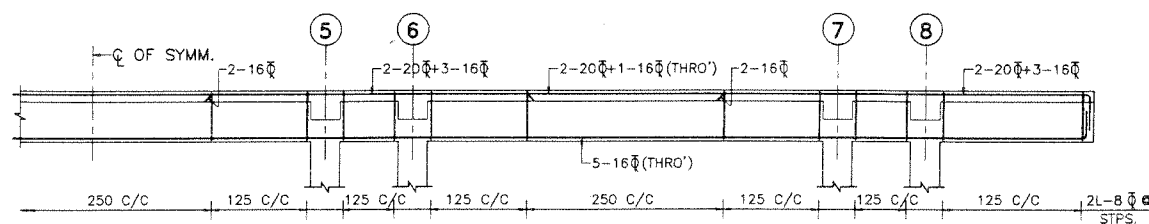
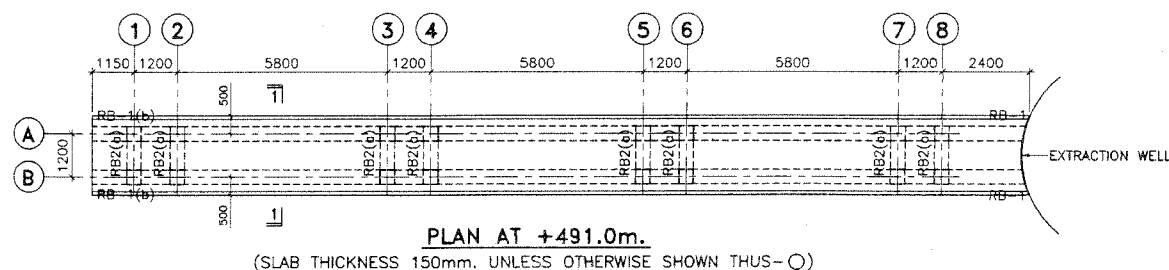


SECTION 1-1

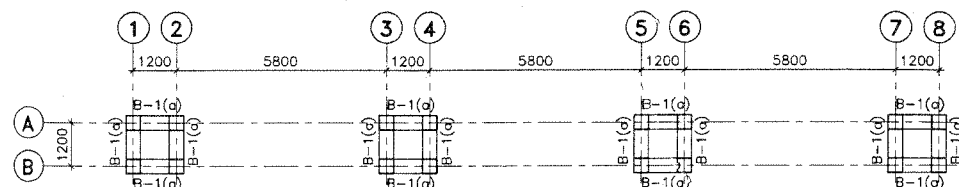
SECTION 1-1
(REINF. ONLY)



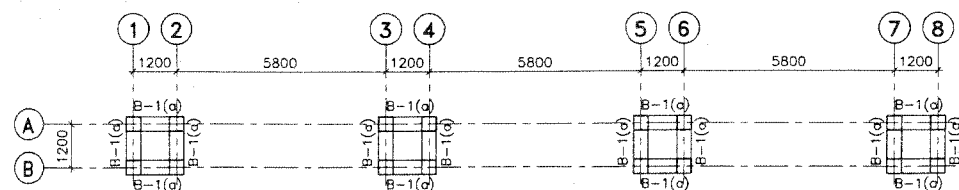
RB-1(400 X 700)



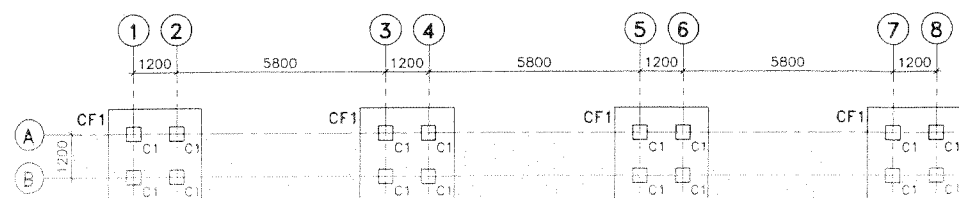
PLAN AT +487.0m.
(SLAB THICKNESS 150mm. UNLESS OTHERWISE SHOWN THUS-○)



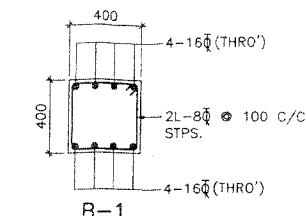
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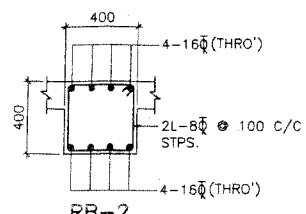
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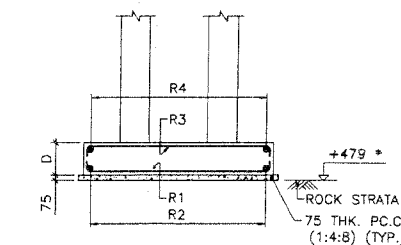
COLUMN LAYOUT AND FOUNDATION PLAN



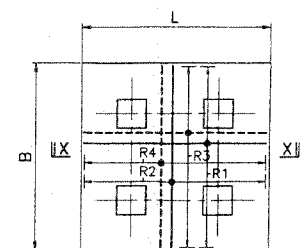
B-1



RB-2



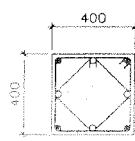
SECTION X-X



TYPICAL DETAIL OF COMBINED FOOTING

SCHEDULE OF COMBINED FOOTINGS

FOOTING MKD.	B	L	D	R1	R2	R3	R4	REMARKS
CF1	2600	2600	500	12 Φ 125 C/C	12 Φ 125 C/C	12 Φ 200 C/C	12 Φ 200 C/C	

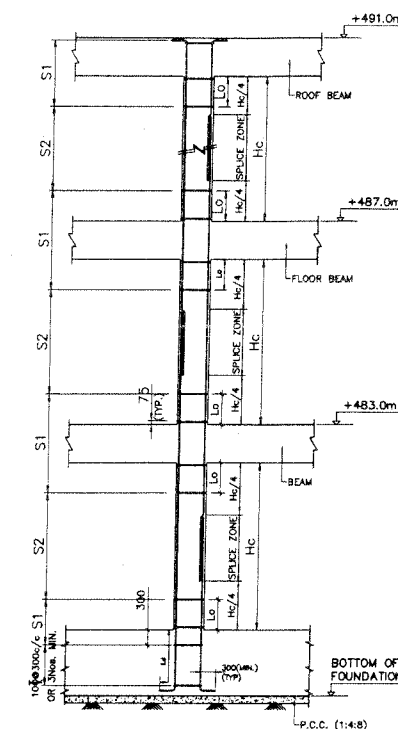


COL. C1

NOTE:-
FOUNDATIONS HAVE BEEN DESIGNED BASED ON $30t/m^2$ I.E., RESTING ON ROCK.

NOTE ON CURTAILMENT DETAIL OF COLUMNS

1. H_c IS CLEAR COLUMN HEIGHT.
2. L_d IS GREATER OF
 - a) MAX LATERAL DIMENSION OF COLUMN
 - b) $H_c/6$
 - c) 450mm
3. S2 - RINGS AS PER COLUMN SCHEDULE.
4. RINGS SHALL BE SPACED AT 150mm C/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF L_d IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2.
5. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION.



TYPICAL CURTAILMENT DETAIL OF COLUMN

NOTE:-
* FOUNDING LEVELS SHOWN IN THE DRAWING ARE TENTATIVE. FOUNDATION SHALL REST ON ROCK. ON COMPLETION OF EXCAVATION, FOUNDING LEVELS SHOULD BE INFORMED TO THE ENGINEER PRIOR TO START FOUNDATION WORK.

SCHED. OF BEAM SIZE

BEAM MKD.	SIZE
a	400 X 400
b	400 X 700

GENERAL NOTES:-

1. ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS.
2. THE DRAWING ARE TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS.
3. CONCRETE GRADE SHALL BE M25.
4. MINIMUM CLEAR COVER TO ALL MAIN REINF. SHALL BE AS FOLLOWS:
 - a) FOR FOUNDATION-----50mm.
 - b) FOR COLUMNS-----50mm.
 - c) FOR BEAMS-----40mm.
 - d) FOR SLABS-----40mm.
5. REINFORCEMENTS SHALL BE THERMO-MECHANICALLY TREATED BARS OF Fe500 GRADE CONFORMING TO IS:1786-2008.
6. UNLESS OTHERWISE NOTED BOND/LAP LENGTH SHALL BE EQUAL TO DEVELOPMENT LENGTH OF BAR. NOT MORE THAN HALF OF THE BARS SHALL BE OVERLAPPED AT ANY SECTION.
7. NET SAFE BEARING CAPACITY IS
 - i) $12t/m^2$ AT A DEPTH OF 2.0m FOR FOOTINGS RESTING ON SOIL.
 - ii) $30t/m^2$ FOR FOOTINGS RESTING ON ROCK.
8. THE CONTRACTOR IS TO VERIFY ALL DIMS. BEFORE COMMENCING ANY SETTING OUT. ANY QUERIES OR DISCREPANCIES ARE TO BE REFERRED TO ENGINEER AT SITE.
9. ALL CUTOUPS, CHASES, DROPS, POCKETS, CHAMFERS, OPENING SLEEVES ETC SHALL BE KEPT/FORMED AS SHOWN IN THE DRGS. OR/AS REQUIRED BY SERVICES DRAWING.
10. AT FOUNDING LEVEL LOOSE POCKETS OF DISINTEGRATED ROCK/ SOIL IF ENCOUNTERED SHALL BE COMPLETELY REMOVED & BACK FILLED WITH LEAN CONCRETE(M 7.5) AS PER THE DIRECTION OF THE ENGINEER-IN-CHARGE.
11. SYMBOLS USED AS FOLLOWS :-
 - a) ∇ LEVELS IN ELEVATION /SECTION.
 - b) \square LEVELS IN PLAN.
 - c) \square OPENING IN STRUCTURAL ELEMENTS.
 - d) \square SUNKEN SLAB.
 - e) \square THICKNESS OF SLAB.
 - f) \square BOTTOM REINFORCEMENT.
 - g) \square TOP REINFORCEMENT.

ALL COLUMNS SHALL BE CENTRALLY PLACED W.R.T. GRID LINES UNLESS SHOWN OTHERWISE.

ALL FOOTINGS SHALL BE CENTRALLY PLACED W.R.T. COLUMNS UNLESS OTHERWISE INDICATED.

MRD.	ISSUED	DESCRIPTION	DEALT	CHECKED	APPROVED
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REVISIONS

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CLIENT
INDIAN INSTITUTE OF SCIENCE EDUCATION & RESEARCH THIRUVANANTHAPURAM

PROJECT
ISER - TVM CAMPUS, VITHURA THIRUVANANTHAPURAM

PROJECT MANAGEMENT CONSULTANT
GHERZI EASTERN LTD, CHENNAI

PURPOSE FOR CONSTRUCTION
21-06-2012
SURJOIT DASS

SCALE
1:100, 1:50, 1:20
STRUCTURAL DRAWING

DEALT
R.K.
APPROACH PATH FOR EXTRACTION WELL

CHECKED
M.W.B.
FOUNDATION, G.A. AND R.C. DETAILS

APPROVED
T.K.R.C.
2009088/BS/C/AP/S-01

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