SCHEDULE OF COLUMN:- (M20 AND FE 500)
BLOCK-1A

COLUMN NOS.	SIZE (MMxMM)	FOUNDATION TO 2ND. FL.	2ND.FL. TO 4TH. FL.	4TH. FL. TO ROOF&ABOVE
AC1	250X500	8-16Φ+2-12Φ	4-16Φ+6-12Φ	4-16Φ+6-12Φ
AC2	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
AC3	250X450	8-16Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
AC4	250X450	8-16Φ+2-12Φ	8-16Φ+2-12Φ	4-16Φ+4-12Φ
AC5	250X600	6-16Φ+6-12Φ	6-16Φ+6-12Φ	6-16Φ+6-12Φ
AC6	250X600	6-16Φ+6-12Φ	6-16Φ+6-12Φ	6-16Φ+6-12Φ
AC7	250X500	8-16Φ+2-12Φ	4-16Φ+6-12Φ	4-16Φ+6-12Φ
AC8	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
AC9	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
AC10	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	4-16Φ+4-12Φ
AC11	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
AC12	250X500	10-20Φ	4-20Φ+6-16Φ	10-16Φ
AC13	250X625	8-16Φ+4-12Φ	8-16Φ+4-12Φ	8-16Φ+4-12Φ
AC14	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
AC15	250X450	8-20Φ+2-16Φ	10-16Φ	10-16Φ
AC16	250X500	6-16Φ+4-12Φ	6-16Φ+4-12Φ	6-16Φ+4-12Φ
AC17	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
AC18	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
AC19	250X500	8-16Φ+4-12Φ	6-16Φ+4-12Φ	6-16Φ+4-12Φ
AC20	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
AC21	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
AC22	250X500	8-16Φ+2-12Φ	8-16Φ+2-12Φ	4-16Φ+6-12Φ
AC23	250X500	10-16Φ	8-16Φ+2-12Φ	8-16Φ+2-12Φ
AC24	250X500	10-16Φ	8-16Φ+2-12Φ	8-16Φ+2-12Φ
AC25	250X500	8-16Φ+2-12Φ	8-16Φ+2-12Φ	4-16Φ+6-12Φ
AC26	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
AC27	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
AC28	250X500	6-16Φ+4-12Φ	6-16Φ+4-12Φ	4-16Φ+6-12Φ
AC29	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
AC30	250X450	4-20Φ+6-16Φ	4-20Φ+6-16Φ	8-16Φ
AC31	250X500	6-16Φ+4-12Φ	6-16Φ+4-12Φ	4-16Φ+6-12Φ
AC32	250X500	10-16Φ	8-16Φ+2-12Φ	8-16Φ+2-12Φ
AC33	250X450	4-20Φ+4-16Φ	8-16Φ	6-16Φ+2-12Φ
AC34	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
AC35	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
AC36	250X450	4-20Φ+4-16Φ	8-16Φ	6-16Φ+2-12Φ
AC37	250X500	10-16Φ	8-16Φ+2-12Φ	6-16Φ+2-12Φ
AC38	250X500	6-16Φ+4-12Φ	6-16Φ+4-12Φ	6-16Φ+4-12Φ
AC39	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	4-16Φ+4-12Φ
AC40	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	4-16Φ+4-12Φ
AC41	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
AC42	250X500	6-16Φ+4-12Φ	6-16Φ+4-12Φ	4-16Φ+4-12Φ

SCHEDULE OF FLOOR BEAM (M20 AND FE 500)
BLOCK-1

BEAM MKD.	SIZE (MMxMM)	TOP ALTH.	TOP EXT(AT SUPT.)	BOTT. ALTH	BOTT. EXT(MID SPAN)	STIRRUPS (2 LEGGED) AT SUPPORT	STIRRUPS (2 LEGGED) AT SPAN
B1	250x450	2-16Φ	2-12Φ 2-20+1-16Φ(Cont. End)	2-16Φ	2-12Φ	8(2L)Φ150C/C	8(2L)Φ175C/C
B1A	250x450	3-16Φ+2-20Φ	-	2-16Φ+2-12Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B2	250x450	2-16Φ	2-16Φ 2-20+1-16Φ(Cont. End)	2-16Φ	2-16Φ	8(2L)Φ150C/C	8(2L)Φ175C/C
B2A	250x450	3-16Φ+2-20Φ	-	4-16Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B3	200x450	3-16Φ	2-16Φ	3-16Φ	2-16Φ	8(2L)Φ150C/C	8(2L)Φ175C/C
B3A	200x450	3-16Φ	-	3-16Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B4	250x450	2-16Φ	2-12Φ	3-16Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B5	250x450	2-16Φ	2-16Φ	4-16Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B6	250x450	2-16Φ	1-16Φ	4-16Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B7	250x450	2-16Φ	2-16Φ	3-20Φ	2-16Φ	8(2L)Φ150C/C	8(2L)Φ175C/C
B8	250x450	3-16Φ	-	3-16Φ	-	8(2L)Φ150C/C	8(2L)Φ175C/C
B9	250x450	2-16Φ+1-12Φ	2-16Φ	3-16Φ	3-20Φ	8(2L)Φ150C/C	8(2L)Φ175C/C
B10	250x450	2-16Φ	2-20Φ	2-16Φ	2-20Φ	8(2L)Φ150C/C	8(2L)Φ175C/C
B11	250x450	2-16Φ	2-20Φ	2-20Φ	2-16Φ	8(2L)Φ150C/C	8(2L)Φ175C/C

SCHEDULE OF SLAB (S1)

SLAB THICKNESS AS MENTIONED :- 115 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 150mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 165mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :- 115 MM (ALONG LONGER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 175mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF SLAB (S2)

SLAB THICKNESS AS MENTIONED :- 125 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 135mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 150mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :- 125 MM (ALONG LONGER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 175mm c/c at span & alternately curtained at L/4 from beam

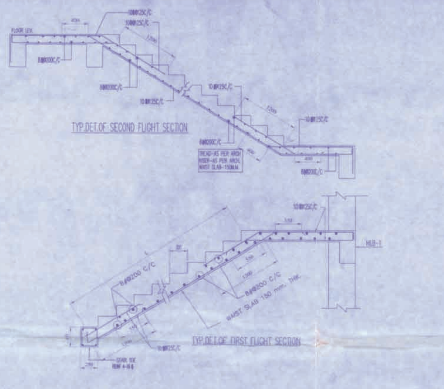
SCHEDULE OF SLAB (S2)

SLAB THICKNESS AS MENTIONED :- 135 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 125mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 150mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :- 135 MM (ALONG LONGER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 175mm c/c at span & alternately curtained at L/4 from beam

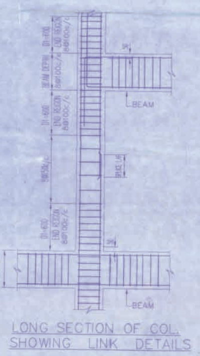
SCHEDULE OF TIE BEAM (M20 AND FE 500)

MKD.	SIZE (MMxMM)	TOP ALTH.	TOP EXT(AT SUPT.)	BOTT. ALTH	BOTT. EXT(MID SPAN)	STIRRUPS (2 LEGGED) AT SUPPORT	STIRRUPS (2 LEGGED) AT SPAN
TB1	250x450	2-12ΦT	2-16ΦT	2-16ΦT	2-12ΦT	8ΦT@125mm C/C	8ΦT@150mm C/C
TB2	250x450	1-16ΦT+ 2-12ΦT	-	3-16ΦT	-	8ΦT@125mm C/C	8ΦT@150mm C/C
TB3	250x450	2-16ΦT	2-16ΦT	2-16ΦT	2-16ΦT	8ΦT@125mm C/C	8ΦT@150mm C/C
TB4	250x450	2-16ΦT	2-12ΦT	2-16ΦT	2-12ΦT	8ΦT@125mm C/C	8ΦT@150mm C/C
TB5	200x450	1-16ΦT	-	2-16ΦT	-	8ΦT@125mm C/C	8ΦT@150mm C/C

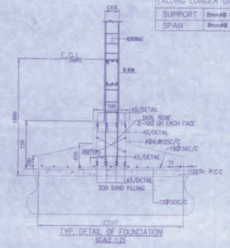


TYP.DET.OF SECOND FLIGHT SECTION

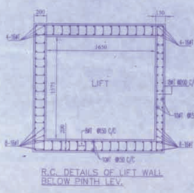
TYP.DET.OF FIRST FLIGHT SECTION



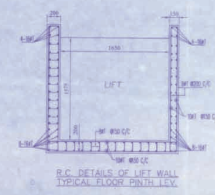
LONG SECTION OF COL. SHOWING LINK DETAILS



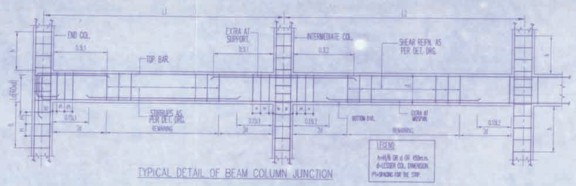
TYP. DETAIL OF FOUNDATION
SCALE 1:25



R.C. DETAILS OF LIFT WALL BELOW PINTH LEV.

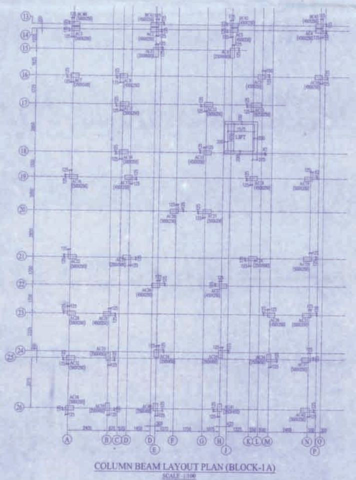


R.C. DETAILS OF LIFT WALL TYPICAL FLOOR PINTH LEV.

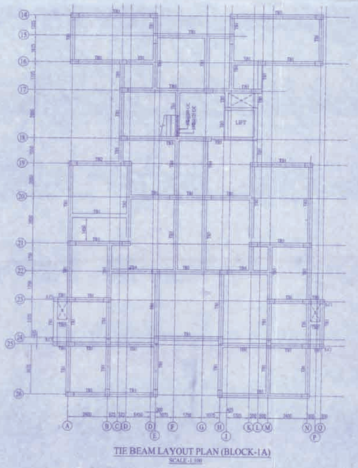


TYPICAL DETAIL OF BEAM COLUMN JUNCTION

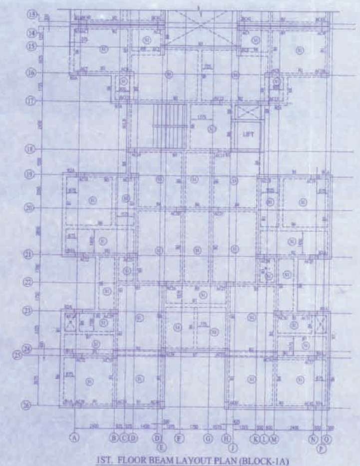
TYPICAL R.C. DETAIL OF STOOL COLUMN



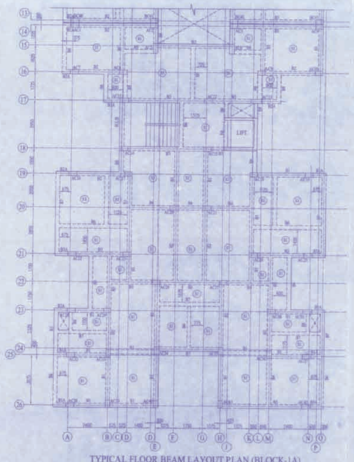
COLUMN BEAM LAYOUT PLAN (BLOCK-1A)
SCALE 1:100



TIE BEAM LAYOUT PLAN (BLOCK-1A)
SCALE 1:100



1ST. FLOOR BEAM LAYOUT PLAN (BLOCK-1A)
SCALE 1:100



TYPICAL FLOOR BEAM LAYOUT PLAN (BLOCK-1A)
SCALE 1:100

NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. ALL CONCRETE SHOULD BE OF GRADE M20 UNLESS SPECIFIED
3. COVER TO REINFORCEMENT
   COLUMN = 40mm , BEAM = 30mm
   SLAB = 15mm , FOUNDATION = 50mm
4. DEPTH OF EXCAVATION OF UNDER GROUND SUMP SHOULD BE ABOVE THAT OF FOUNDATION.
5. DO NOT SCALE THE DRAWING , FOLLOW WITH DIMENSION.
6. ALL WALLS ARE AS PER ARCHITECTURAL DRAWINGS
7. LEAN CONCRETE (1:3:6) NOMINAL MIX 75 THK. SHALL BE PROVIDED UNDER FOUNDATION.
8. THE DRAWINGS SHOULD BE STUDIED CAREFULLY AND ALL DIMENSIONS SHOWN HERE SHOULD BE CHECKED AT SITE. CLARIFICATION REGARDING DISCREPANCY IF ANY, SHOULD BE OBTAINED BEFORE COMMENCEMENT OF WORK.
9. SPACER BAR USED SHALL BE OF 20mm, OR DIAMETER OF THE BAR USED IN THE JOB WHICH IS LARGER.
10. STEEL TO BE USE SHOULD BE OF Fe-500 GRADE. REINFORCEMENT SHOULD BE WITH COLD TWISTED DEFORMED BARS CONFIRMING TO IS - 1786 AND HAVE BEEN SHOWN AS Φ.
11. DEPTH OF EXCAVATION OF UNDER GROUND SUMP/RESERVOIR SHOULD BE ABOVE THE DEPTH OF FOUNDATION OF THE ADJACENT BUILDING / STRUCTURE
12. LAP LENGTH OF STEEL BAR SHALL BE 50xDIA OF BAR

Constitute Attorney
REALMARK REALTY PVT. LTD.
Authorised Signatory/Director

SIGNATURE OF OWNER

CERTIFICATE OF STRUCTURAL ENGINEER

CERTIFIED THAT, "THE STRUCTURAL DESIGN & DRAWINGS OF BOTH FOUNDATION & SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECTS".

SUBIR CHANDRA SANYAL
B. C. E., A. M. I., STRUCT. E. (I)
E./B. S. NO. 540, CLASS-I
E.S.E. NO. 007, CLASS-I
RAJPUR-SONARPUR MUNICIPALITY

SIGNATURE OF STRUCTURAL ENGINEER

CERTIFICATE OF ARCHITECT

THE E.B.S. HAS CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF WEST BENGAL MUNICIPAL BUILDING RULES 2007, AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ABUTTING ROAD CONFIRM WITH THE PLAN AND IT IS A BUILD ABLE SITE AND NOT A TANK OR A FILLED UP TANK.

RAJKUMAR AGARWAL (E.S.A.)
RAJPUR SONARPUR MUNICIPALITY
NO. 451/RJPSON/EBA

SIGNATURE OF ARCHITECT

Rupak Kumar Banerjee
RUPAK KUMAR BANERJEE
B.C.E., M.E., MIGS
M.I.E., CHARTERED ENGINEER
ENLISTED GEO TECHNICAL ENGINEER (K.M.C.)
G.T./I/3(K.M.C), LM-4279
M-153878-5
GTER-HIDCO/09/00014

SIGNATURE OF GEO-TECHNICAL ENGINEER

TITLE

COLUMN & TIE-BEAM LAYOUT PLAN WITH DETAILS. (BLOCK-1A)

PROJECT

STRUCTURAL DRAWING FOR A PROPOSED G+IV (15.45 MT. HT.) STORIEDRESIDENTIAL BUILDING AT HOLDING NO.-484, GHOSHAL PARA, WARD NO-23, R.S & L.R DAG NO -213, 353, 354 & 355, R.S KHATIAN NO. - 82 & 387, LR KHATIAN NO. 1619 , 1620 , 1621, 1622, 1623, 1624, 1625, 1626. 1627, 1628, 1629, 1630, JL NO. 77, MOUZA - MANIKPORE, P.S- SONARPUR, SOUTH 24 PARAGNAS UNDER RAJPUR - SONARPUR MUNICIPALITY.

DATE	JOB. NO.	DEALT	CHECKED	SHEET NO.
30.09.19	STRUC/ 484	SOMNATH	DIPANKAR	6 OF 7

SCALE
1:150, 100, 50, 600, 4000

ARCHITECT

RAJ AGRAWAL & ASSOCIATES
8B, ROYD STREET, KOLKATA - 16

Sanyalson Associates Consultant Pvt. Ltd.
CONSULTANT PLANNER & STRUCTURAL ENGINEERS
P-157 KANUNGO PARK KOLKATA-84

FOR OFFICE USE ONLY

Structural plan as submitted by the structural Engineer have been kept with Building Plan No. 316/03/23/45 ...

Sig. of Assistant Engineer.
Incharge P.W.D
RAJPUR-SONARPUR MUNICIPALITY