SCHEDULE OF COLUMN:- BLOCK-1E		(M20 AND FE 500)		
COLUMN NOS.	SIZE (MMxMM)	FOUNDATION TO 2ND. FL.	2ND.FL. TO 4TH. FL.	4TH. FL. TO ROOF&ABOVE
EC1	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
EC2	250X450	8-16Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
EC3	250X450	6-16Φ+2-12Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
EC4	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
EC5	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
EC6	250X450	6-16Φ+2-12Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
EC7	250X450	6-16Φ+2-12Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
EC8	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC9	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
EC10	250X450	8-16Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
EC11	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC12	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
EC13	250X1125	12-16Φ+6-12Φ	12-16Φ+6-12Φ	12-16Φ+6-12Φ
EC14	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
EC15	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC16	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
EC17	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
EC18	250X500	10-16Φ	8-16Φ+2-12Φ	8-16Φ+2-12Φ
EC19	250X500	4-20Φ+4-16Φ	8-16Φ	8-16Φ
EC20	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
EC21	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC22	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
EC23	250X500	10-20Φ	[illegible]	10-16Φ
EC24	250X500	10-20Φ	4-20Φ+6-16Φ	10-16Φ
EC25	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC26	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
EC27	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
EC28	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
EC29	250X450	8-16Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
EC30	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
EC31	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
EC32	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
EC33	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
EC34	250X450	6-16Φ+2-12Φ	4-16Φ+4-12Φ	4-16Φ+4-12Φ
EC35	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC36	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC37		OMMITED		
EC38	250X500	10-16Φ	10-16Φ	10-16Φ
EC39	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
EC40	250X500	4-20Φ+4-16Φ	10-16Φ	10-16Φ
EC41	250X500	10-16Φ	10-16Φ	8-16Φ+2-12Φ
EC42	250X500	10-16Φ	10-16Φ	8-16Φ+2-12Φ*
EC43	300X450	10-16Φ	10-16Φ	8-16Φ+2-12Φ
EC44	250X500	8-16Φ+2-12Φ	8-16Φ+2-12Φ	4-16Φ+6-12Φ
EC45	250X500	8-16Φ+2-12Φ	8-16Φ+2-12Φ	4-16Φ+6-12Φ
EC46	250X500	10-16Φ	8-16Φ+2-12Φ	4-16Φ+6-12Φ
EC47	250X500	10-16Φ	8-16Φ+2-12Φ	4-16Φ+6-12Φ

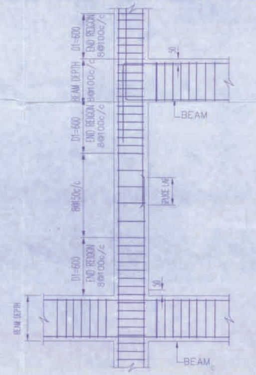
SCHEDULE OF FLOOR BEAM (M20 AND FE 500) BLOCK-1							
BEAM MKD.	SIZE (MMxMM)	TOP		BOTT.		STIRRUPS (2 LEGGED)	
		ALTH	EXT(AT SUPT.)	ALTH	EXT(MID SPAN)	AT SUPPORT	AT SPAN
B1	250x450	2-16Φ	2-12Φ 2-20+1-16Φ(Contl End)	2-16Φ	2-12Φ	8ΦL@150C/C	8ΦL@175C/C
B1A	250x450	3-16Φ+2-20Φ	-	2-16Φ+2-12Φ	-	8ΦL@150C/C	8ΦL@175C/C
B2	250x450	2-16Φ	2-16Φ 2-20+1-16Φ(Contl End)	2-16Φ	2-16Φ	8ΦL@150C/C	8ΦL@175C/C
B2A	250x450	3-16Φ+2-20Φ	-	4-16Φ	-	8ΦL@150C/C	8ΦL@175C/C
B3	200x450	3-16Φ	2-16Φ	3-16Φ	3-16Φ	8ΦL@150C/C	8ΦL@175C/C
B3A	250x450	5-16Φ	-	3-16Φ	-	8ΦL@150C/C	8ΦL@175C/C
B4	250x450	2-16Φ	2-12Φ	3-16Φ	-	8ΦL@150C/C	8ΦL@175C/C
B5	250x450	2-16Φ	2-16Φ	4-16Φ	-	8ΦL@150C/C	8ΦL@175C/C
B6	250x450	2-16Φ	1-16Φ	4-16Φ	-	8ΦL@150C/C	8ΦL@175C/C
B7	250x450	2-16Φ	2-16Φ	3-20Φ	2-16Φ	8ΦL@150C/C	8ΦL@175C/C
B8	250x450	3-16Φ	-	3-16Φ	-	8ΦL@150C/C	8ΦL@175C/C
B9	250x450	2-16Φ+1-12Φ	2-16Φ	3-16Φ	2-20Φ	8ΦL@150C/C	8ΦL@175C/C
B10	250x450	2-16Φ	2-20Φ	2-16Φ	2-20Φ	8ΦL@150C/C	8ΦL@175C/C
B11	250x450	2-16Φ	2-20Φ	2-20Φ	2-16Φ	8ΦL@150C/C	8ΦL@175C/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

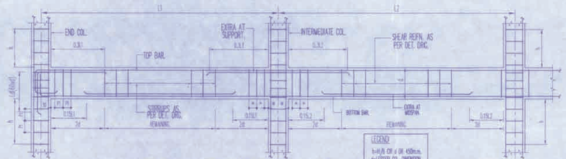
SCHEDULE OF SLAB (S2)	
SLAB THICKNESS AS MENTIONED :- 125 MM (ALONG SHORTER DIRECTION)	(M20 AND FE 500)
SUPPORT	8mmΦ@ 135mm c/c at top of support & extended upto L/3 from beam
SPAN	8mmΦ@ 150mm c/c at span & alternately curtained at L/4 from beam
SLAB THICKNESS AS MENTIONED :-125 MM (ALONG LONGER DIRECTION)	(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 :-[illegible] 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

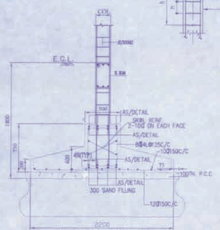
SCHEDULE OF TIE BEAM (M20 AND FE 500)							
MKD.	SIZE	TOP		BOTT.		STIRRUPS (2 LEGGED)	
	(MMxMM)	ALTH	EXT(AT SUPT.)	ALTH	EXT(MID SPAN)	AT SUPPORT	AT SPAN
TB1	250x450	2-12ΦT	2-16ΦT	2-16ΦT	2-12ΦT	8ΦT@125mm C/C	8ΦT@150mm C/C
TB2	250x450	1-16ΦT+ 2-12ΦT	-	3-16TΦ	-	8ΦT@125mm C/C	8ΦT@150mm C/C
TB3	250x450	2-16ΦT	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	2-16ΦT	-	2-16ΦT	-	8ΦT@125mm C/C	8ΦT@150mm C/C



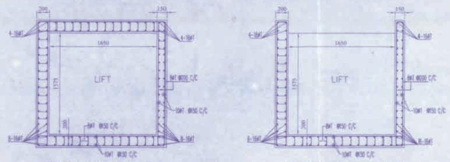
LONG SECTION OF COL. SHOWING LINK DETAILS



TYPICAL DETAIL OF BEAM COLUMN JUNCTION

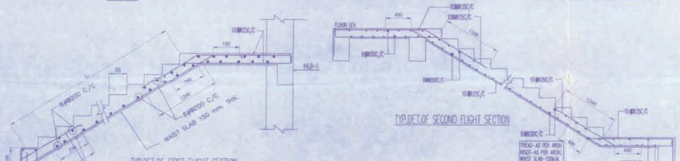


TYP. DETAIL OF FOUNDATION
SCALE 1:25



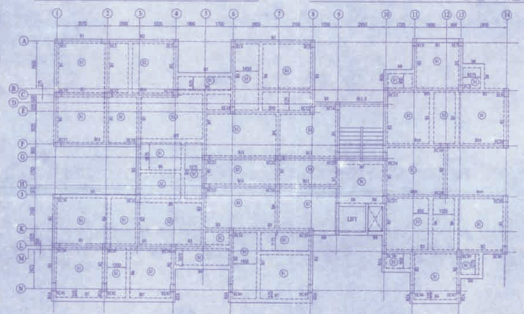
R.C. DETAILS OF LIFT WALL BELOW PINTH LEV.

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

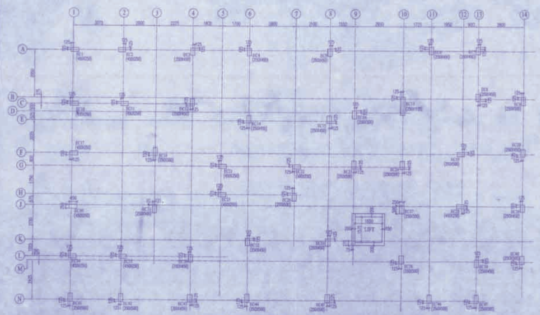


TYP.DET.OF FIRST FLIGHT SECTION

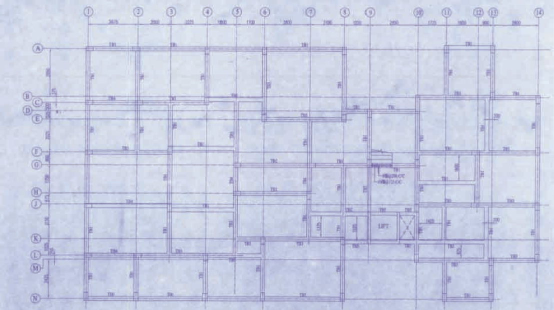
TYP.DET.OF SECOND FLIGHT SECTION



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



COLUMN LAYOUT PLAN (BLOCK-1E)
SCALE-1:100



TIE BEAM LAYOUT PLAN (BLOCK-1E)
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. 840, 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.B.A.)
RAJPUR SONARPUR MUNICIPALITY
NO. 4511R.JP.SON/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./V3(K.M.C.), LM-4279
M-153878-5
GTER-HIDCO/09/00014
019/RJP SON/G.T/2014-15

SIGNATURE OF GEO-TECHNICAL ENGINEER

TITLE

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

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	2 OF 7

SCALE
1:150, 100, 50, 800, 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. 316/09/23/45 Dated On............

27/03/2020

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