SCHEDULE OF COLUMNS

SIZES AND REINF.	300 × 450	300 × 450
FDN. TO ROOF LEV.	10-16Φ 8 Φ LINKS @ 150 C/C (4 LINKS PER SET) (1 CLOSED +3 OPEN)	12-16 Φ 8 Φ LINKS @ 150 C/C (4 LINKS PER SET) (2 CLOSED + 2 OPEN)
COL. MKD.	C1,C2,C3,C4,C6,C7,C9,C10,C12,C15,C16,C18,C21,C22,C24,C25,C26,C27,C28,C30,C31,C32	C5,C8,C11,C13,C14,C17,C19,C20,C23,C29

SCHEDULE OF PILE CAP

GRADE OF CONCRETE-M25

TYPE	SIZE	DEPTH (D)	TOP OF PILE CAP	CUT OFF LEV. OF PILE	REINFORCEMENT IN SHORTER DIRECTION	REINFORCEMENT IN LONGER DIRECTION
2P	750 x 2100	900	(-)0.500	(-)1.325	12Φ @ 150 C/C (T) 16Φ @ 150 C/C (B)	12 Φ @ 150 C/C (T) 16 Φ @ 150 C/C (B)
3P	SEE PLAN	900	(-)0.500	(-)1.325	12Φ @ 150 C/C (T) 16Φ @ 125 C/C (B)	12 Φ @ 150 C/C (T) 16 Φ @ 125 C/C (B)
4P	2100 x 2100	1000	(-)0.500	(-)1.425	12Φ @ 150 C/C (T) 16Φ @ 125 C/C (B)	12 Φ @ 150 C/C (T) 16 Φ @ 125 C/C (B)
6P	2100 x 3450	1200	(-)1.450	(-)2.575	12Φ @ 125 C/C (T) 16Φ @ 100 C/C (B)	12 Φ @ 125 C/C (T) 16 Φ @ 100 C/C (B)
8P	2100 x 4800	1350	(-)1.450	(-)2.725	12Φ @ 125 C/C (T) 16Φ @ 100 C/C (B)	12 Φ @ 125 C/C (T) 16 Φ @ 100 C/C (B)

SCHEDULE OF PILE

GRADE OF CONCRETE : M30
MINIMUM CEMENT CONTENT IN CONCRETE SHALL BE= 400kg/m3

DIA OF PILE	LEGEND OF PILE	CAPACITY	REINFORCEMENT	TERMINATION LEVEL
450 Ø		38 TON	8–16 Φ	-20.0 M

SCHEDULE OF PILE CAP CONNECTED BEAMS

BEAM MKD.	SIZE WIDTH (mm)	SIZE DEPTH (mm)	REINFORCEMENT END SUPP. TOP	END SUPP. BOTT.	SPAN TOP	SPAN BOTT.	STIRRUPS SUPP.	STIRRUPS SPAN
GB1	250	400	3-16Φ	3-16Φ	3-16Φ	3-16Φ	2L-8Φ @ 125 C/C.	2L-8Φ @ 125 C/C

SCHEDULE OF FLOOR BEAM:

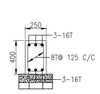
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

BEAM MKD.	BEAM SIZE	MAIN REINFORCEMENT SUPPORT TOP	SUPPORT BOT.	SPAN TOP	SPAN BOT.	STIRRUPS SUPPORT	STIRRUPS SPAN
B-1	250X400	3 -16Φ+ 2 -16Φ	3 -16Φ	2 -16Φ	3 -16Φ+ 2 -12Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 150 C/C
B-2	250X400	3 -16Φ+ 3 -16Φ	3 -16Φ	2 -16Φ	3 -16Φ+ 2 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 100 C/C
B-3	250X400	3 -16Φ+ 2 -16Φ	3 -16Φ	2 -16Φ	3 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 150 C/C
B-4	250X400	3 -16Φ+ 2 -16Φ	3 -16Φ	2 -16Φ	3 -16Φ+ 2 -12Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 100 C/C
B-5	250X400	2 -16Φ	2 -16Φ	2 -16Φ	2 -16Φ+ 1 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 150 C/C
B-6	250X400	2 -16Φ	2 -16Φ	2 -16Φ	2 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 150 C/C
B-7	250X400	3 -16Φ	3 -16Φ	3 -16Φ	3 -16Φ+ 2 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 150 C/C
B-8	250X500	3 -16Φ+ 3 -16Φ	3 -16Φ	3 -16Φ	3 -16Φ+ 3 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 100 C/C
HLB	250X400	3 -16Φ+ 3 -16Φ	3 -16Φ	3 -16Φ	3 -16Φ+ 2 -16Φ	8Φ- 2L @ 100 C/C	8Φ- 2L @ 150 C/C

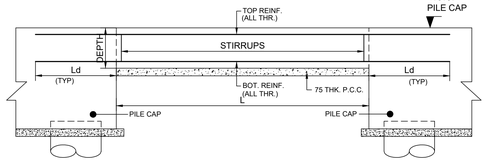
SCHEDULE OF FLOOR SLAB:

(GRADE OF CONCRETE :M25 & GRADE OF STEEL :Fe500)

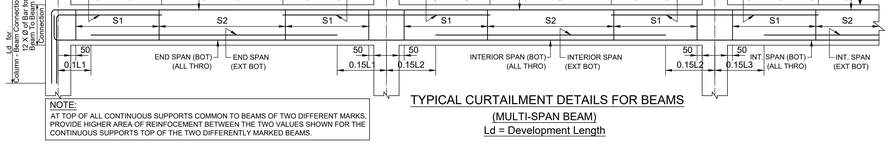
SLAB MKD.	SLAB THICKNESS (MM)	REINFORCEMENT SHORTER SPAN (TOP)	SHORTER SPAN (BOTTOM)	LONGER SPAN (TOP)	LONGER SPAN (BOTTOM)
S1	125	8Φ@ 125 C/C	8 Φ @ 125C/C	8 Φ @ 125C/C	8 Φ @ 125 C/C
S2	125	8Φ@ 150 C/C	8 Φ @ 200 C/C	8 Φ @ 150 C/C	8 Φ @ 200 C/C
ST.	150	12Φ@ 125 C/C (MAIN) WITH 8Φ @ 200 C/C (DIST.)			
PROVIDE 8Φ @ 200 C/C DISTRIBUTOR BAR WHERE EVER REQUIRED					



SECTION OF GRADE BEAM (GB)
SCALE - 1:25

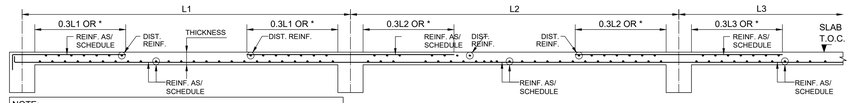


TYP. DET. OF PILE CAP CONNECTED BEAM (GRADE BEAM)



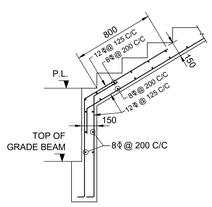
NOTE:
AT TOP OF ALL CONTINUOUS SUPPORTS COMMON TO BEAMS OF TWO DIFFERENT MARKS, PROVIDE HIGHER AREA OF REINFOCEMENT BETWEEN THE TWO VALUES SHOWN FOR THE CONTINUOUS SUPPORTS TOP OF THE TWO DIFFERENTLY MARKED BEAMS.

TYPICAL CURTAILMENT DETAILS FOR BEAMS
(MULTI-SPAN BEAM)
Ld = Development Length

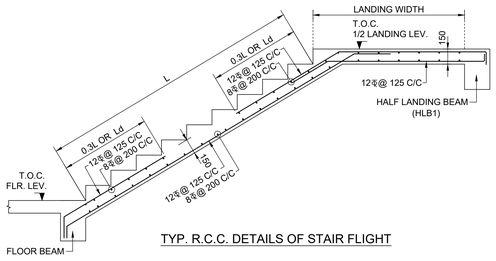


NOTE:
AT CONTINUOUS SUPPORTS COMMON TO SLABS OF TWO DIFFERENT MARKS, PROVIDE HIGHER AERA OF REINF. AT TOP BETWEEN THE TWO DIFFERENTLY MARKED SLABS.

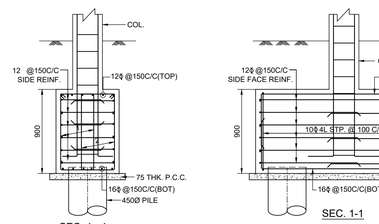
TYP. SECTION OF FLOOR SLAB ALONG SHORTER DIRECTION
(* DEVELOPMENT LENGTH, WHICHEVER IS GREATER)



R.C.C. DET. OF STARTING OF STAIR

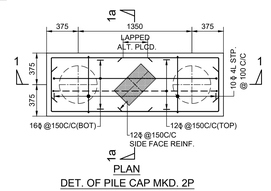


TYP. R.C.C. DETAILS OF STAIR FLIGHT

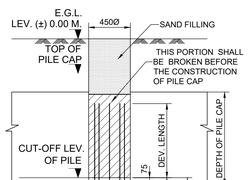


SEC. 1a-1a

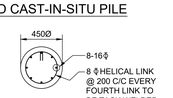
SEC. 1-1



PLAN
DET. OF PILE CAP MKD. 2P

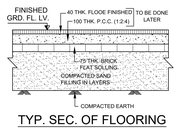


LONG SECTION OF 450Ø
BORED CAST-IN-SITU PILE

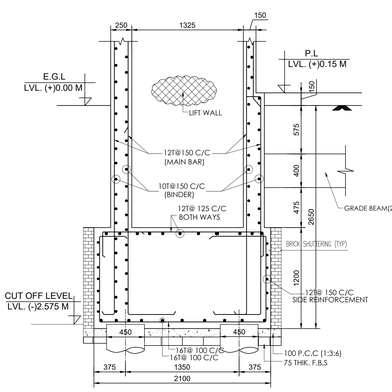


SECTION 1-1

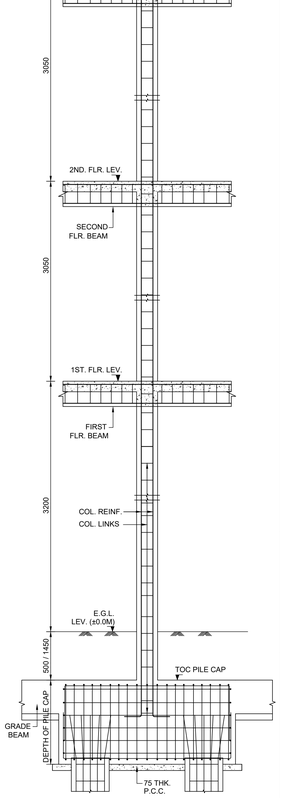
DET.OF STUB
COL. MKD. SC1



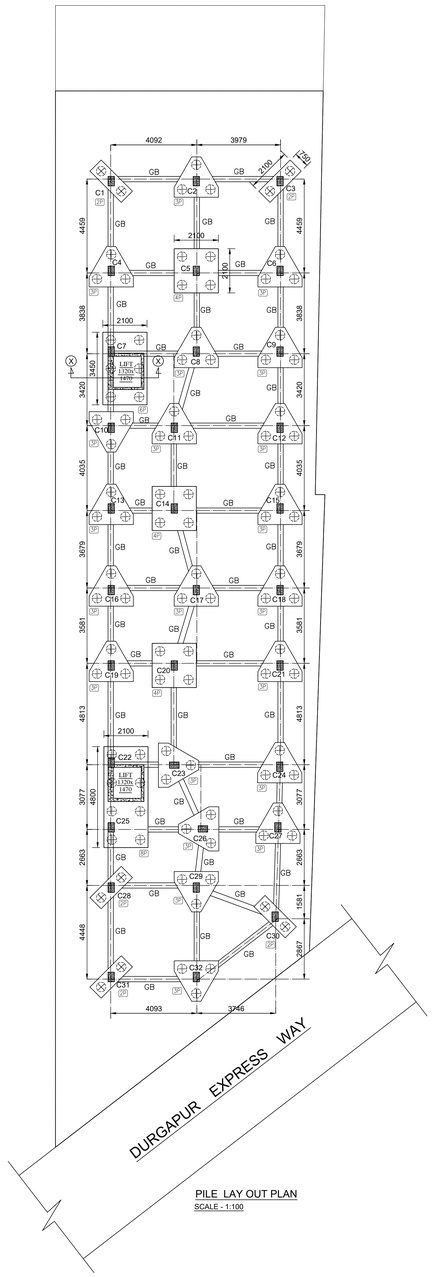
TYP. SEC. OF FLOORING



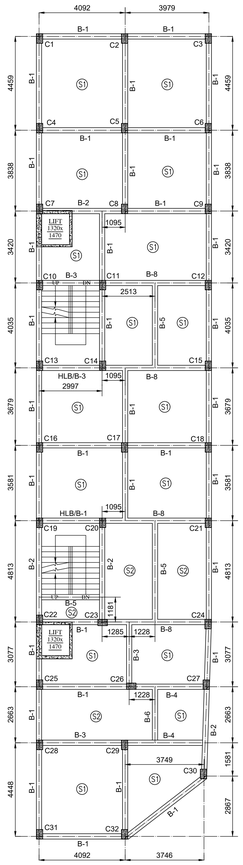
SECTION AT X-X
SCALE- 1:25



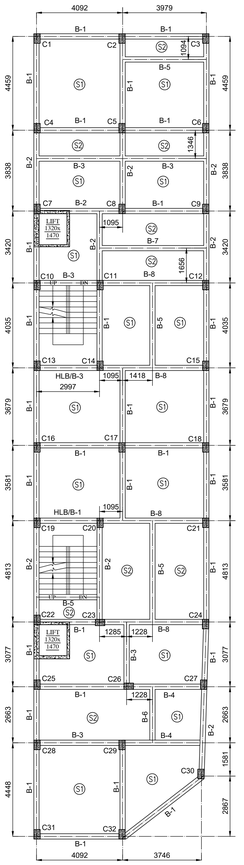
TYP. SEC. OF COLUMN



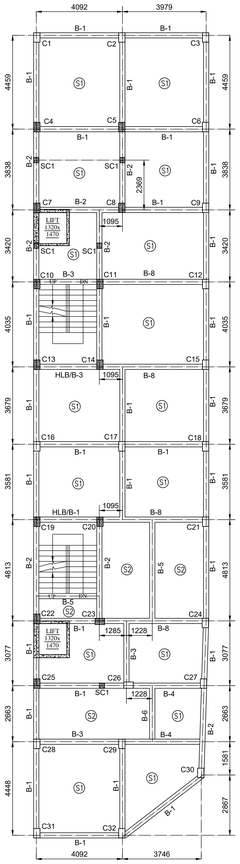
PILE LAY OUT PLAN
SCALE - 1:100



BEAM LAY OUT PLAN AT 1ST FLOOR LEV.
SCALE - 1:100



BEAM LAY OUT PLAN AT TYP. FLOOR LEV.
(2ND. TO 4TH. FLOOR)
SCALE - 1:100



BEAM LAY OUT PLAN AT ROOF LEV.
SCALE - 1:100

NOTES.

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M. & FIGURED DIMENSIONS ARE TO BE FOLLOWED.
2. ± 0.00 CORRESPONDS TO GROUND LEVEL.
3. THIS DRG. SHALL BE READ IN CONJUNCTION WITH LATEST ARCH. DWG.
4. GRADE FOR REINFORCEMENT CONCRETE SHALL BE M-25 FOR FOUNDATION AND M-25 FOR SUPER STRUCTURE.
5. ALL REINFORCEMENT SHALL BE OF H.Y.S.D. BARS Fe-500 CONFORMING TO IS:1786 - 2008.
6. UNLESS SPECIFIED OTHERWISE, NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED / SPLICED AT ANY SECTION.
7. UNLESS SPECIFIED OTHERWISE, THE MINIMUM CLEAR CONCRETE COVER FOR PROTECTION OF REINFORCEMENT SHALL BE AS FOLLOWS:-

ITEMS	TOP	BOTTOM	SIDE
FOUNDATION	50	50	50
TIE / FLOOR BEAM	30	30	30
COLUMN	-	-	40
FLOOR / WAIST SLAB	20	20	20

8. UNLESS SPECIFIED OTHERWISE ALL HOOKS,BENDS,LAPS, SPLICES ETC. SHALL BE AS PER LATEST IS:456 AND OTHER RELEVANT INDIAN STAND.
9. ANY DISCREPANCY OBSERVED BETWEEN THIS STRUC. DWG. AND RELEVANT ARCH. DWG. SHALL BE BROUGHT TO THENOTICE AND GET RECONCILED BEFORE EXECUTION.
10. THE SAFE BEARING CAPACITY OF PILE FOUNDATION DESIGN HAS BEEN KEPT WITHIN 38 T FOR 450 MM DIA PILE AS PER SOIL REPORT.

SIG. OF OWNER

SIGNATURE OF L.B.S.

ER. TANMOY DAS.
B. TECH (CIVIL), M. TECH (STRUC.ENGG.-PURSUING)
AMIE, MICS, CHARTERED ENGINEER
EMPANELLED L.B.S
DANKUNI MUNICIPALITY
EMPANELMENT NO.-DKM/016/LBS-I/2022-23
SIG. OF L.B.S

CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAVE BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER N.B.C OF INDIA AND CERTIFY THAT IT IS SAFE AND STABLE IN ALL RESPECT.

ER. TANMOY DAS.
B. TECH (CIVIL), M. TECH (STRUC.ENGG.-PURSUING)
AMIE, MICS, CHARTERED ENGINEER
EMPANELLED STRUCTURAL ENGINEER
DANKUNI MUNICIPALITY
EMPANELMENT NO.-DKM/015/ST-II/2021-22
SIG. OF STRUCTURAL ENGINEER

APPROVED BY

PROJECT-

STRUCTURAL DRAWING OF NIKHIL BANDHU GHOSH OF PROPOSED CONSTRUCTION OF (G+4) STORIED BUILDING AT HOLDING NO-967, MOUZA- MONOHARPUR , IN PART OF L.R DAG NO.- 2396 & 2397, L.R. KHATIAN NO.- 10281, J.L. NO.- 98, WARD NO.-9 , P.S.-DANKUNI, WITHIN DANKUNI MUNICIPALITY, DISTRICT- HOOGHLY.

DRAWN BY	S.B.	DRG. NO. 1
SCALE	1:100,25	
DATE		
CHECKED BY	T. DAS	REVISION