

PROJECT :-
 PROPOSED GROUND + 5 STORED (WING A & C)
 (18.95 M HT) RESIDENTIAL BUILDING FOR
 JH DEVELOPERS LLP
 CO.- REGIONAL ASHOK KUMAR NAYA BAZAR SILIGURI
 PIN-734005

SITE ADDRESS :-
 JH DEVELOPERS, KARNAJHORA, KALIBARI,
 NEAR - MOTOR KALIBARI MANDIR, PO-KARNAJHORA,
 PS- RAIGANJ, DIST-UTTAR DINAJPUR, PIN-733130

SCHEDULE OF LAND :-
 MOUZA :- KARNAJHORA
 J.L. NO :- 157
 KHATAN NO :- 3676 (LR)
 PLOT NO :- 708,709 (LR)
 PLOT NO :- 776 (RS)
 PS :- RAIGANJ
 DIST :- LITTARDINAJPUR

AREA STATEMENT :-

01. LAND AREA AS PER DEED	4896.701 SQM
02. LAND AREA AS PER KHATAN	4896.701 SQM
03. LAND AREA AS SITE	4896.684 SQM
04. PERMISSIBLE GROUND COVERAGE (50%)	2448.242 SQM
05. PROPOSED GROUND COVERAGE	42.49 % 2086.373 SQM
06. GROUND FLOOR AREA	774.976 774.987 532.410 2083.373 SQM
07. TYPICAL FLOOR AREA	774.976 774.987 532.410 2083.373 SQM
(1ST TO 5TH FLOOR)	
08. TOTAL FLOOR AREA	11462.238 SQM
09. PERMISSIBLE F.A.R	2.50
10. PROPOSED F.A.R	2.154
11. TOTAL NO. OF TENEMENT	110 (NO.)
12. TENEMENT DETAILS:-	
01. TENEMENT WITH AREA ABOVE 60 SQM TO 75 SQM	10 (NO.)
02. TENEMENT WITH AREA ABOVE 75 SQM TO 100 SQM	100 (NO.)
13. REQUIRED NO. OF PARKING	42 (NO.)
14. PROPOSED NO. OF PARKING	56 (NO.)
15. PERMISSIBLE HEIGHT OF THE BUILDING	NO RESTRICT (M)
16. PROPOSED HEIGHT OF THE BUILDING	18.950 (M)

- SPECIFICATION :-**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
 - GRADE OF STEEL F8-500 AND GRADE OF CONCRETE 1:1.5:3
 - ALL P.C.C. WORK 1:3:6 AND R.C.C. WORK 1:1:2
 - ALL WALL FOUNDATION UP TO PLINTH WILL BE DONE IN 1st CLASS S.W. IN CEMENT MORTAR (1:5)
 - IN CEMENT MORTAR (1:4) OVER P.C.C. (1:3:6)
 - 125 TH.B.W. IN SUPER STRUCTURE. WILL BE DONE IN 1st CLASS S.W. IN CEMENT MORTAR (1:5)
 - I.P.S. FLOORING IN ALL ROOMS
 - FRAME SIZE FOR DOORS 125X66 MM AND WINDOWS ARE MADE OF STEEL.
 - PLASTIC PAINTS IN INTERIOR WALLS AND CEMENT PAINTS IN EXTERIOR WALLS.
 - SYNTHETIC ENAMEL PAINTS IN DOORS AND WINDOWS.

DECLARATION OF OWNER
 I DO HEREBY DECLARE THAT THE BUILDING PROPOSED FOR CONSTRUCTION SHALL BE SUPERVISED BY THE ARCHITECT SIGNING THE BUILDING PLAN AND APPLICATION OR IN HIS ABSENCE BY ANY OTHER L.L.S ARCHITECT OF THE APPROPRIATE CATEGORY AND AS APPROVED BY THE AUTHORITY.

SIGNATURE OF OWNER

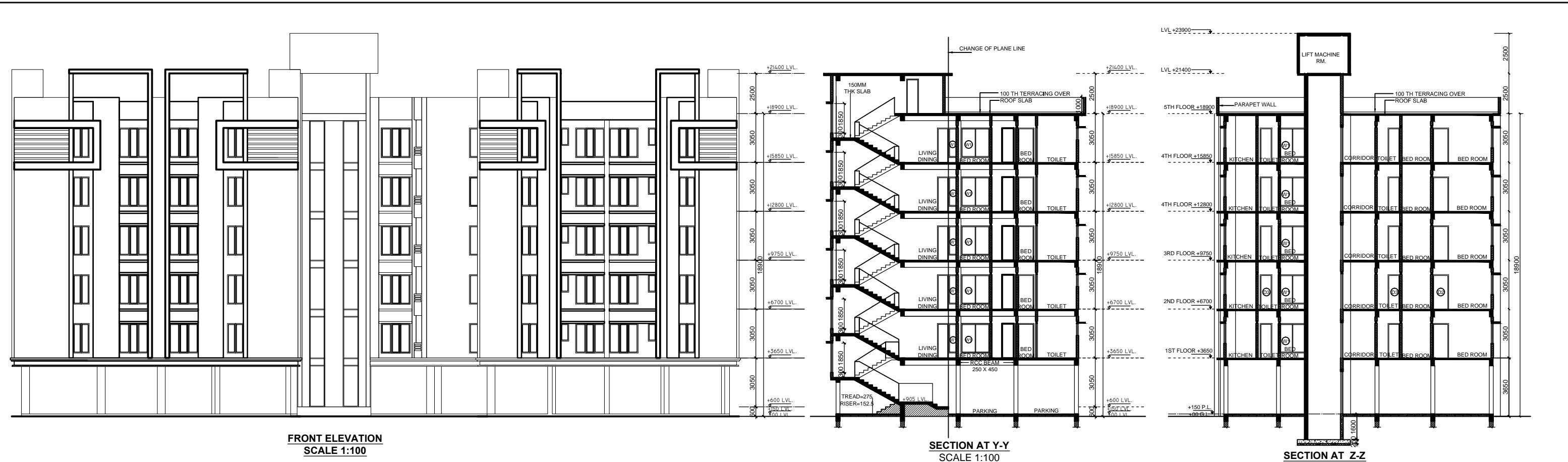
DECLARATION OF STRUCTURAL ENGINEER
 I CERTIFY THAT THE STRUCTURAL DRAWING DESIGN AND OF BOTH BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE UNDER THE ACT AND ALSO CONSIDERING ALL POSSIBLE LOADS SEISMIC LOAD AND THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER THE BUREAU OF INDIAN STANDARDS AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND DURABLE IN ALL RESPECT AND THESE PROVISION SHALL BE ADHERED TO DURING THE CONSTRUCTION.

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF GEO TECHNICAL ENGINEER

DECLARATION & STABILITY CERTIFICATE BY ARCHITECT
 I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT HAVE BEEN PREPARED BY ME COMPLYING WITH THE WEST-BENGAL MUNICIPAL (BUILDING) RULES 2007. I SHALL BE HELD RESPONSIBLE IF ANY INCORRECT INFORMATION IS FURNISHED BY ME OR ANY VIOLATION OF THE PROVISIONS OF THESE RULES OR THE PREVAILING NATIONAL BUILDING CODE IS FOUND IN ANY OF THE DRAWING SIGNED BY ME AND SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

SIGNATURE OF ARCHITECT



OFFICE USE :-

PROJECT :-
 PROPOSED GROUND + 5 STORED (MVG AB & C)
 (18.35 M HT) RESIDENTIAL BUILDING FOR
 JH DEVELOPERS LLP
 C/O- BEGNAJ ASHOK KUMAR NAYA BAZAR SILIGURI
 PIN-734005

SITE ADDRESS :-
 JH DEVELOPERS, KARNAJHORA, KALIBARI,
 NEAR - MOTOR KALIBARI MANDIR, PO-KARNAJHORA,
 PS-RAIGANJ, DIST-UTTAR DINAJPUR, PIN-733130

SCHEDULE OF LAND :-
 MOUZA :- KARNAJHORA
 J.L. NO :- 157
 KHATAN NO :- 3676 (LR)
 PLOT NO :- 798,799 (LR)
 PLOT NO :- 776 (RS)
 PS :- RAIGANJ
 DIST :- UTTARDINAJPUR

SCHEDULE OF OPENINGS :-

D1	> 1000 X 2150	I	W1	> 1800 X 1850
D2	> 1000 X 2150	II	W2	> 1800 X 1250
D3	> 750 X 2150	III	W3	> 1500 X 1850
D4	> 2150 X 2150	IV	W4	> 1350 X 1150
		I	W5	> 1000 X 1850
		II	W6	> 500 X 1100
		I	W7	> 1350 X 1850
		II	W8	> 1800 X 1850

DECLARATION OF OWNER
 I DO HEREBY DECLARE THAT THE BUILDING PROPOSED FOR CONSTRUCTION SHALL BE SUPERVISED BY THE ARCHITECT SIGNING THE BUILDING PLAN & APPLICATION OR IN HIS ABSENCE BY ANY OTHER L.B.S. ARCHITECT OF THE APPROPRIATE CATEGORY AND AS APPROVED BY THE AUTHORITY.

SIGNATURE OF OWNER

DECLARATION OF STRUCTURAL ENGINEER
 I CERTIFY THAT THE STRUCTURAL DRAWING DESIGN AND OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE UNDER THE ACT AND ALSO CONSIDERING ALL POSSIBLE LOADS, SEISMIC LOAD AND THE MOMENTS GENERATED BY THE PROPOSED STRUCTURE AS PER THE BUREAU OF INDIAN STANDARD AND NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT AND THESE PROVISION SHALL BE ADHERED TO DURING THE CONSTRUCTION.

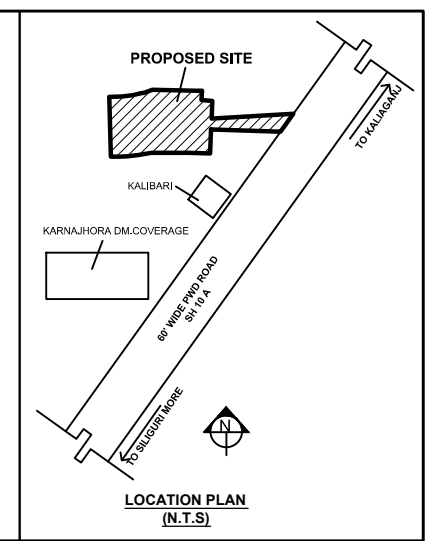
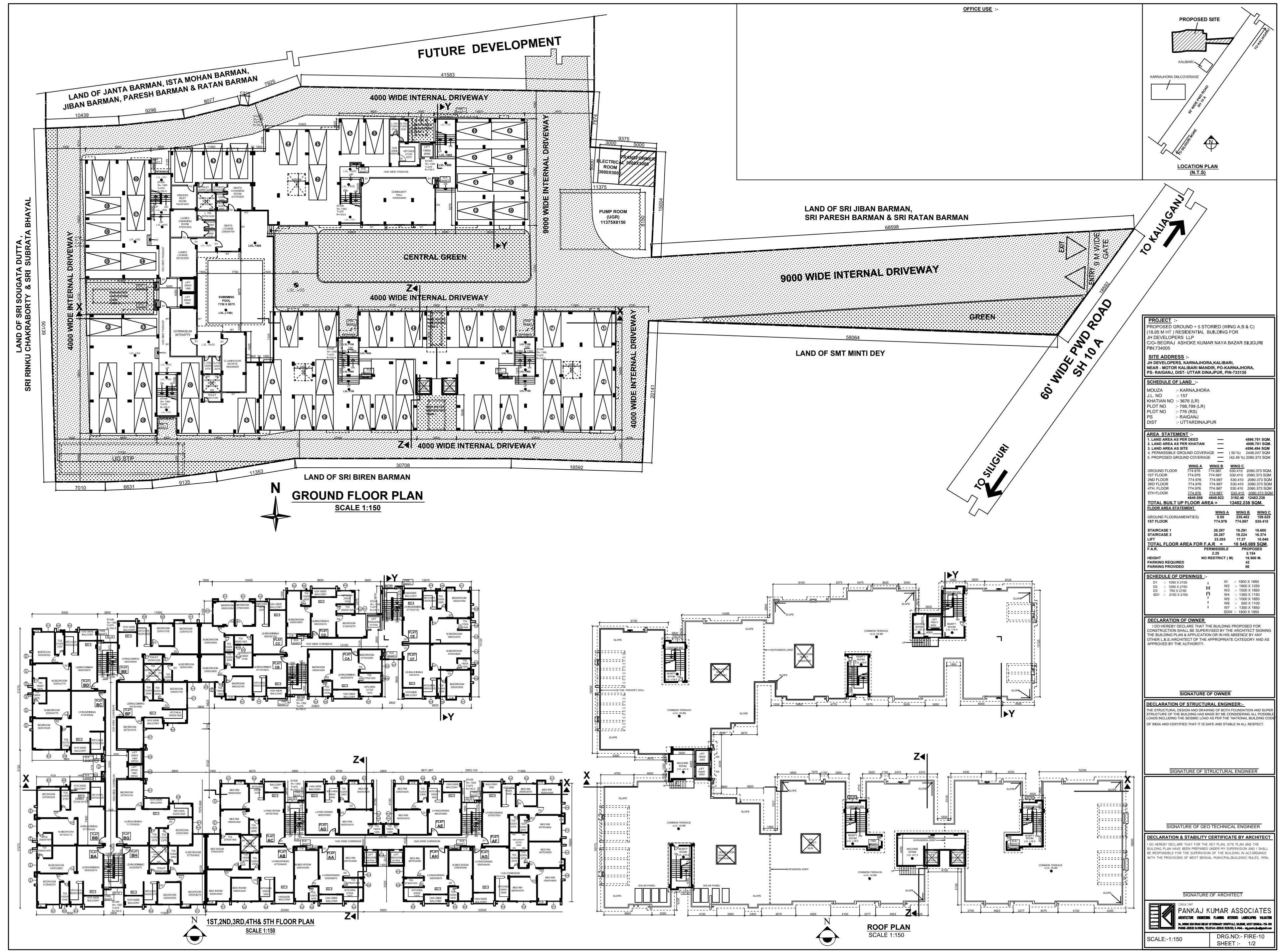
SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF GEO TECHNICAL ENGINEER

DECLARATION & STABILITY CERTIFICATE BY ARCHITECT
 I CERTIFY THAT ALL THE ARCHITECTURAL DRAWINGS OF THE PROJECT HAVE BEEN PREPARED BY ME COMPLYING WITH THE WEST-BENGAL MUNICIPAL (BUILDING) RULES 2007. I SHALL BE HELD RESPONSIBLE IF ANY INCORRECT INFORMATION IS FURNISHED BY ME OR ANY VIOLATION OF THE PROVISION OF THESE RULES OR THE PREVALING NATIONAL BUILDING CODE IS FOUND IN ANY OF THE DRAWING SIGNED BY ME AND SUBMITTED TO THE SANCTIONING AUTHORITY FOR OBTAINING SANCTION.

SIGNATURE OF ARCHITECT

PANKAJ KUMAR ASSOCIATES
 ARCHITECTURE ENGINEERING PLANNING INTERIOR LANDSCAPE INTERIOR
 PL. WING 5TH FLOOR NEAR VETERINARY HOSPITAL SLAB, WEST BENGAL-74 00
 PHONE: 033-2446610, 033-2446611, 033-2446612, 033-2446613, 033-2446614
 CONTENT :- ELEVATION & SECTION
 SCALE:-1:100 SHEET :- 3/3



PROJECT :-
 PROPOSED GROUND + 5 STORED (WING A, B & C)
 (16.08 M H) RESIDENTIAL BUILDING FOR
 JH DEVELOPERS LLP
 C/O- BEGURJ ASHOK KUMAR NAYA BAZAR SILIGURI
 PIN-734005

SITE ADDRESS :-
 JH DEVELOPERS, KARNAJHORA KALIBARI
 NEAR - MOTOR KALIBARI MANDIR, PO-KARNAJHORA,
 PS- RAIGANJ, DIST-UTTAR DINAJPUR, PIN-733130

SCHEDULE OF LAND :-
 MOUZA :- KARNAJHORA
 J.L. NO :- 157
 KHATIAN NO :- 3676 (LR)
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 PS :- RAIGANJ
 DIST :- UTTARDINAJPUR

AREA STATEMENT :-

1. LAND AREA AS PER DEED	4896.701 SQM
2. LAND AREA AS PER KHATIAN	4896.701 SQM
3. LAND AREA AS SITE	4896.494 SQM
4. PERMISSIBLE GROUND COVERAGE	(50%) 2448.247 SQM
5. PROPOSED GROUND COVERAGE	(42.49%) 2080.373 SQM

FLOOR AREA STATEMENT

	WING A	WING B	WING C
GROUND FLOOR	774.976	774.987	530.410
1ST FLOOR	774.976	774.987	530.410
2ND FLOOR	774.976	774.987	530.410
3RD FLOOR	774.976	774.987	530.410
4TH FLOOR	774.976	774.987	530.410
5TH FLOOR	774.976	774.987	530.410
TOTAL BUILT UP FLOOR AREA =	4649.856	4649.922	3192.462
TOTAL BUILT UP FLOOR AREA =	12492.238 SQM		

FLOOR AREA STATEMENT

	WING A	WING B	WING C
GROUND FLOOR (AMOUNTS)	639	334.483	199.323
1ST FLOOR	774.976	774.987	530.410
STAIRCASE 1	20.287	19.291	16.605
STAIRCASE 2	20.287	19.224	16.374
LIFT	23.205	17.227	10.040
TOTAL FLOOR AREA FOR F.A.R. =	10,545,089 SQM		
F.A.R.	PERMISSIBLE 2.16	PROPOSED 2.16	
HEIGHT	NO RESTRICT (M)	16.900 M.	
PARKING REQUIRED		62	
PARKING PROVIDED		56	

SCHEDULE OF OPENINGS :-

D1	D2	D3	D4	W1	W2	W3	W4	W5	W6	W7	W8
> 1000 X 2150	> 1000 X 2150	> 750 X 2150	> 2150 X 2150	> 1800 X 1850	> 1800 X 1550	> 1500 X 1850	> 1500 X 1550	> 1000 X 1850	> 500 X 1100	> 1350 X 1850	> 1800 X 1850

DECLARATION OF OWNER
 I DO HEREBY DECLARE THAT THE BUILDING PROPOSED FOR CONSTRUCTION SHALL BE SUPERVISED BY THE ARCHITECT SIGNING THE BUILDING PLAN & APPLICATION OR IN HIS ABSENCE BY ANY OTHER L.B.S. ARCHITECT OF THE APPROPRIATE CATEGORY AND AS APPROVED BY THE AUTHORITY.

DECLARATION OF STRUCTURAL ENGINEER
 THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

DECLARATION & STABILITY CERTIFICATE BY ARCHITECT
 I DO HEREBY DECLARE THAT FOR THE KEY PLAN, SITE PLAN AND THE BUILDING PLAN HAVE BEEN PREPARED UNDER MY SUPERVISION AND I SHALL BE RESPONSIBLE FOR THE SUPERVISION OF THE BUILDING IN ACCORDANCE WITH THE PROVISIONS OF WEST BENGAL MUNICIPAL BUILDING RULES, 1996.

SIGNATURE OF OWNER

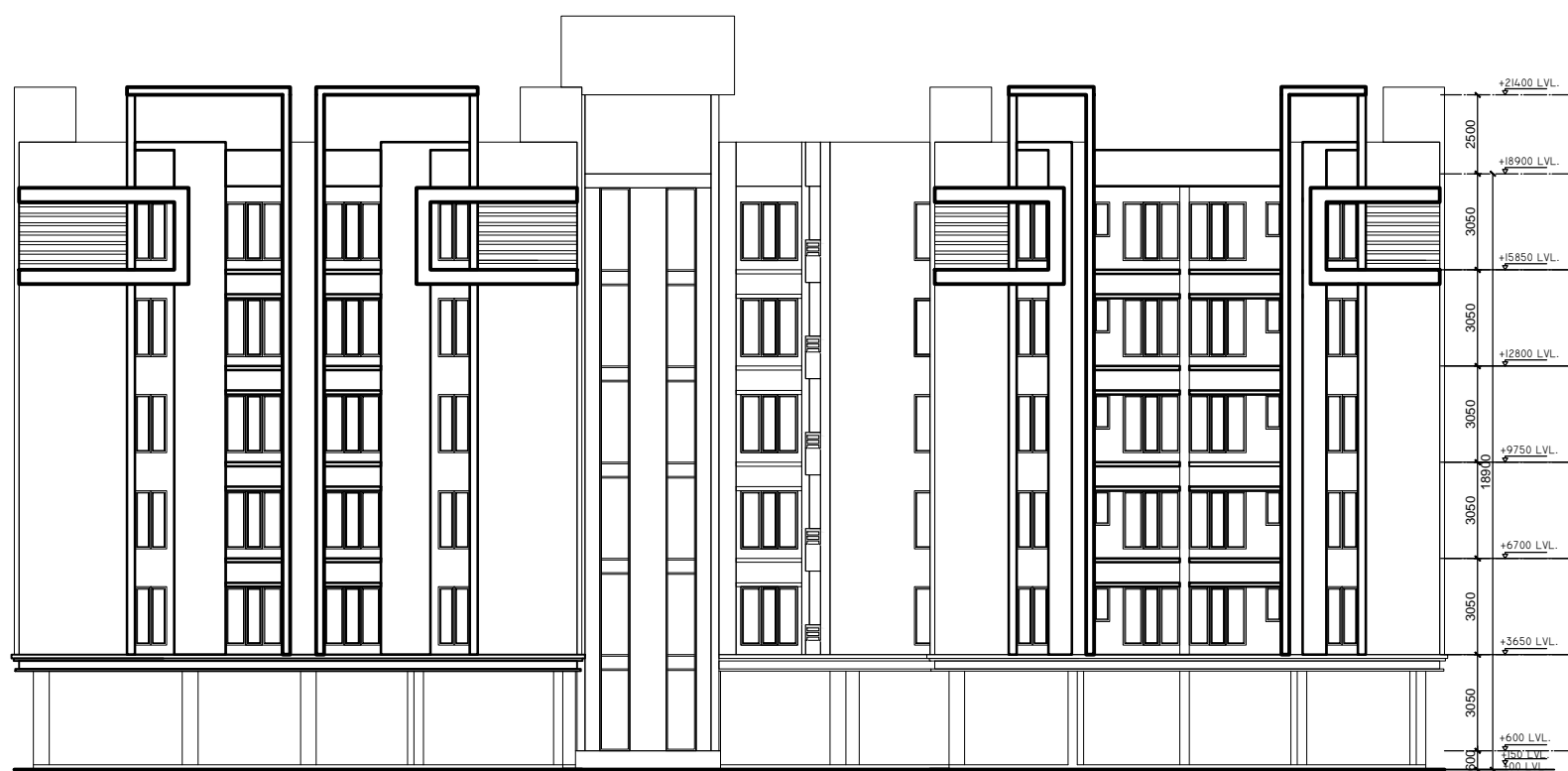
SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF GEO TECHNICAL ENGINEER

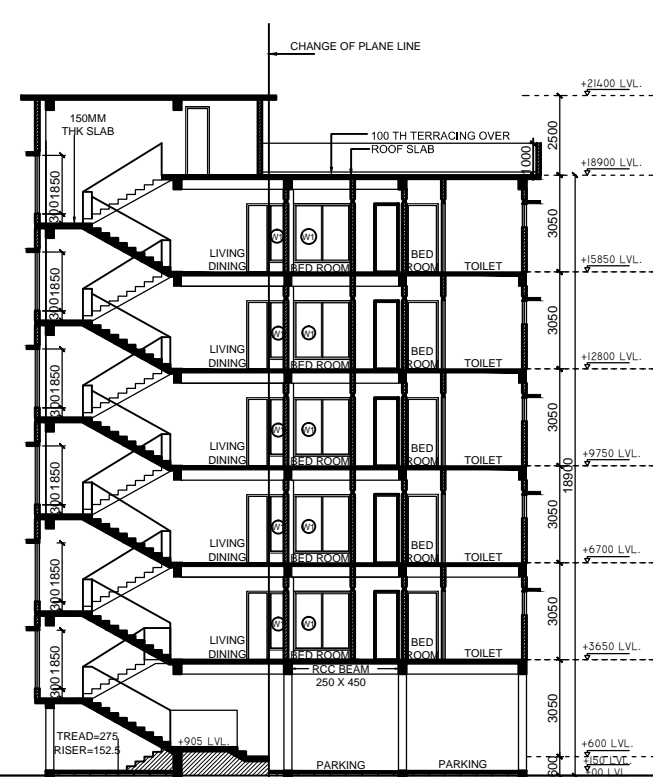
SIGNATURE OF ARCHITECT

PANKAJ KUMAR ASSOCIATES
 ARCHITECTURE, ENGINEERING, PLANNING, INTERIORS, LANDSCAPE, INTERIORS
 14, HOSE CHAND ROAD, VICTORIA MEMORIAL SQUARE, WEST BENGAL, CHH. BH. PIN-700016, TEL: 98303 23001, FAX: 98303 23001, Email: pka@pkaonline.com

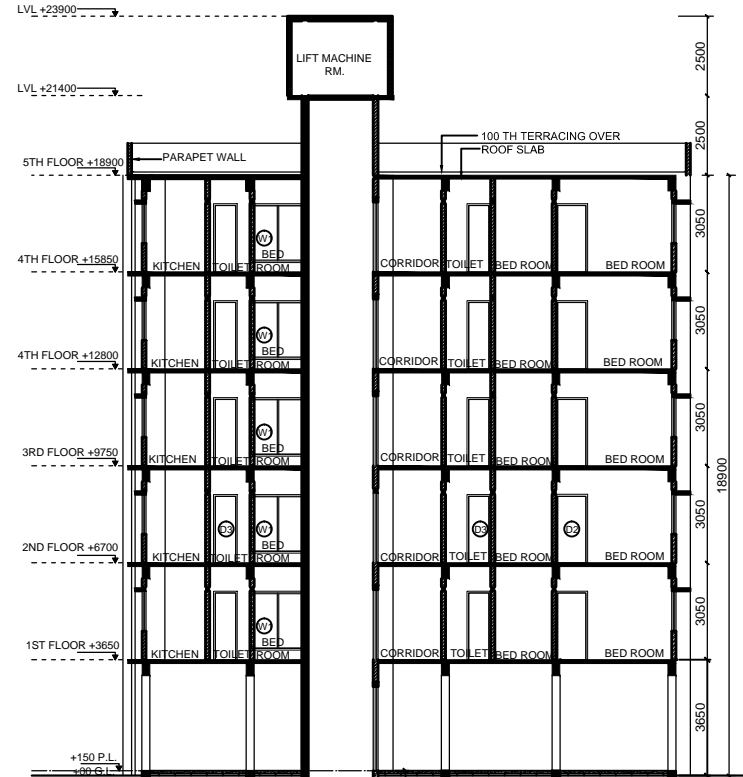
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SHEET - 1/2



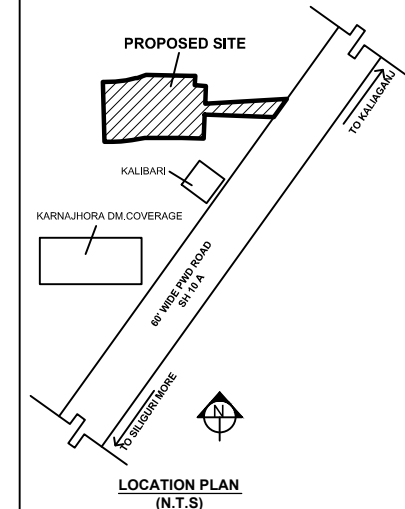
FRONT ELEVATION
SCALE 1:100



SECTION AT Y-Y
SCALE 1:100



SECTION AT Z-Z
SCALE 1:100



LOCATION PLAN
(N.T.S)

PROJECT :-
PROPOSED GROUND + 5 STORED (WING A,B & C)
(18.95 M H T) RESIDENTIAL BUILDING FOR
JH DEVELOPERS LLP
C/O: BEGRAJ ASHOK KUMAR NAYA BAZAR SILIGURI
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SCHEDULE OF OPENINGS :-

D1	1000 X 2100	I	W1	1800 X 1800
D2	1000 X 2100	H	W2	1800 X 1250
D3	750 X 2150	I	W3	1500 X 1800
D01	2100 X 2150	I	W4	1350 X 1150
		I	W5	1000 X 1800
		I	W6	500 X 1100
		I	W7	1350 X 1850
		I	SW	1800 X 1850

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THE BUILDING PLAN & APPLICATION OR IN HIS ABSENCE BY ANY
OTHER L.B.S.Architect OF THE APPROPRIATE CATEGORY AND AS
APPROVED BY THE AUTHORITY.

SIGNATURE OF OWNER

DECLARATION OF STRUCTURAL ENGINEER
THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND 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 AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SIGNATURE OF STRUCTURAL ENGINEER

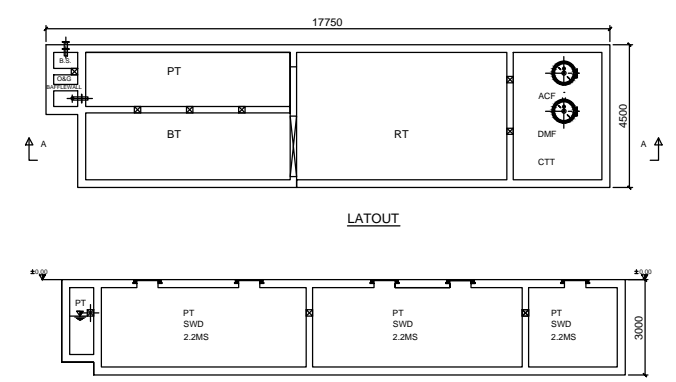
DECLARATION & STABILITY CERTIFICATE BY ARCHITECT
I DO HEREBY DECLARE THAT FOR THE KEY PLAN, SITE PLAN AND THE
BUILDING PLAN HAVE BEEN PREPARED UNDER MY SUPERVISION AND I SHALL
BE RESPONSIBLE FOR THE SUPERVISION OF THE BUILDING IN ACCORDANCE
WITH THE PROVISIONS OF WEST BENGAL MUNICIPAL BUILDING RULES, 1996.

SIGNATURE OF ARCHITECT

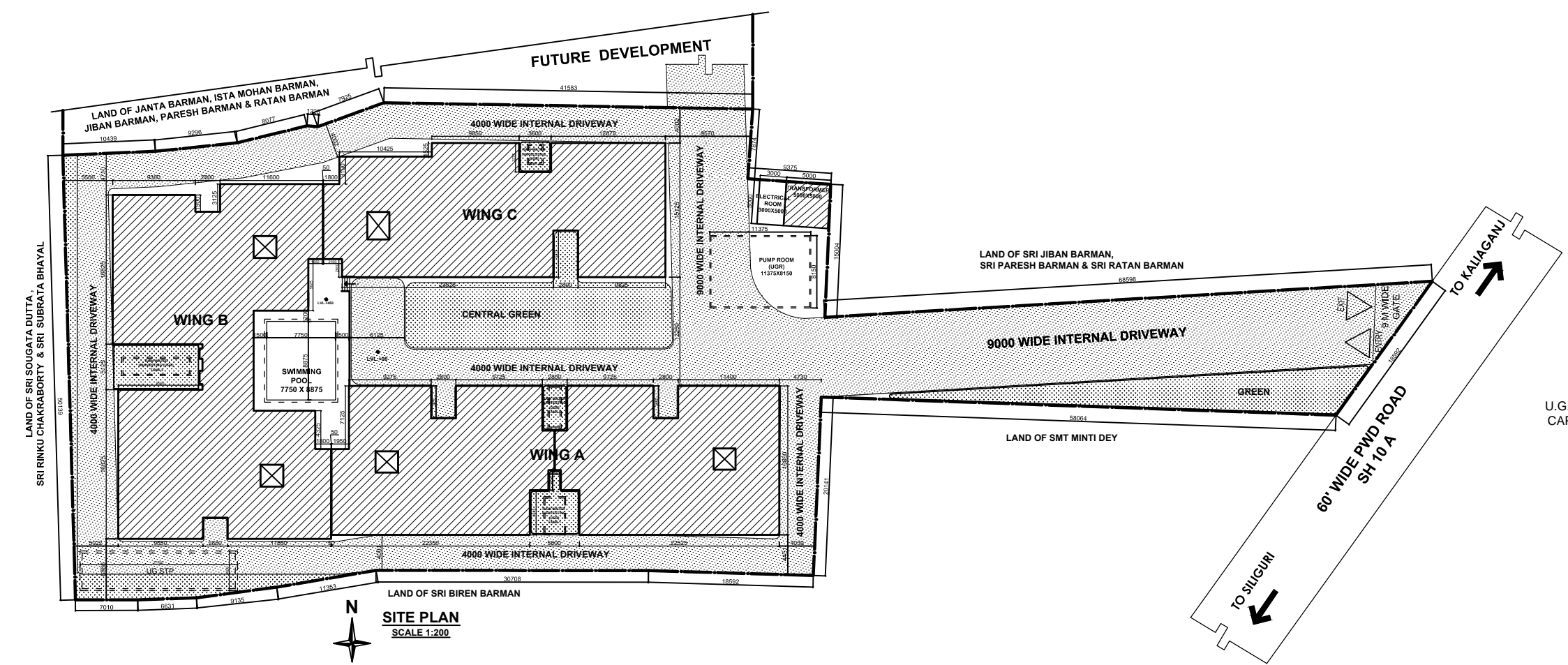
PANKAJ KUMAR ASSOCIATES
ARCHITECTURE ENGINEERING PLANNING DESIGN LANDSCAPE
14, HOSE CHOWK BEHAR VETERINARY HOSPITAL BUILDING, WEST BENGAL, CH. 86
PHONE-0993 24199, TEL/FAX-0993 250911, E-MAIL - pka@pankajka.com



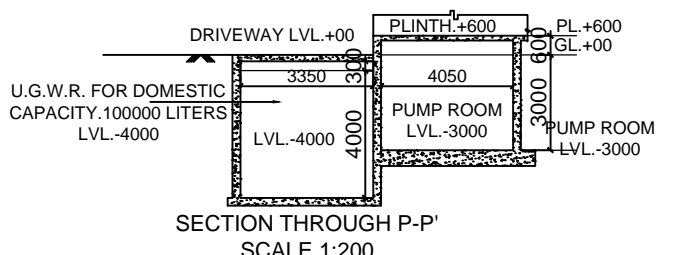
SECTION AT A-A
SCALE 1:100



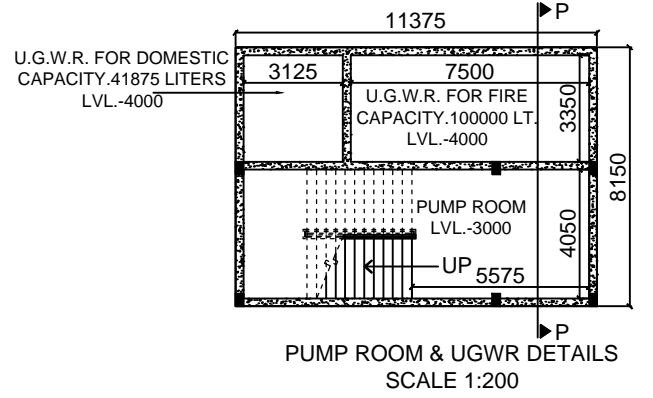
SECTION A-A
65 KLD STP
SCALE 1:100



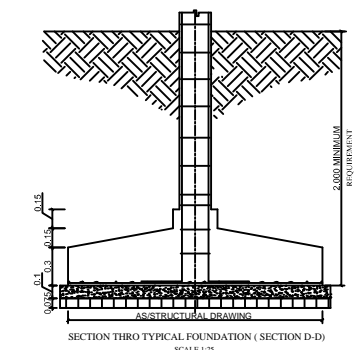
SITE PLAN
SCALE 1:200



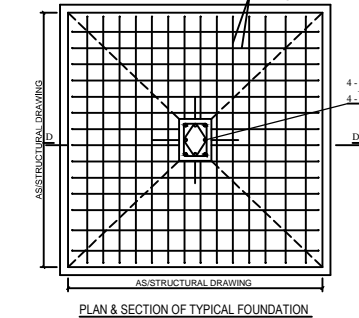
SECTION THROUGH P-P
SCALE 1:200



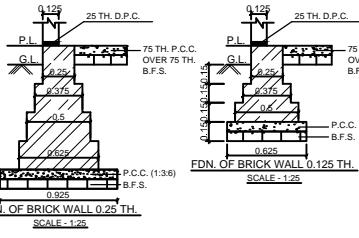
PUMP ROOM & UGWR DETAILS
SCALE 1:200



SECTION THROUGH TYPICAL FOUNDATION (SECTION D-D)



PLAN & SECTION OF TYPICAL FOUNDATION



FOUNDATION DETAILS

NOTES :-

A. GENERAL:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
2. DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.

B. CONCRETE WORK:

1. ALL CONCRETE WORK SHALL BE AS PER IS:456 (LATEST REVISION)
2. ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
 - a). THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M-25
3. PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
 - a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS , PIT, TRENCHES ETC.
 - b). M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
4. THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

STRUCTURAL ELEMENT	COVER		
	TOP	BOTTOM	SIDES
a). PLINTH BEAM	25	40	40
b). COLUMNS	50	-	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50

C. REINFORCEMENTS:

1. ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
2. (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS $F_y = 500$ N/MM²) SHALL CONFORM TO IS:1786 (LATEST REVISION)
3. LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
4. ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
5. THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	41XD	33XD

6. LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
7. LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
8. DEVELOPMENT LENGTH (L_d) = 50D/DA OF THE BAR+10D/DA OF THE BAR.
9. ALL SPACER BARS ARE 250 ϕ @450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.

NOTE:

THIS BUILDING HAS BEEN DESIGNED FOR G+3.
ALL EXTERNAL BRICK WALLS ARE 200MM THICK USED DENSITY 20kN/m³
ALL INTERNAL BRICK WALLS ARE 125MM THICK USED DENSITY 20kN/m³

IMPORTANT NOTE:

*BUILDING LOCATIONS AND LEVELS/DIMENSION TO BE FOLLOW APPROVED ARCHITECTURAL DRAWING.

** LOADINGS:
LL = 4.0 kN/SOM
SDL = 2.0 kN/SOM
TOTAL = 6.0 kN/SOM

IT HAS TO BE ENSURED THAT AT ANY CASE THE TOTAL CONSTRUCTION LOADS DOES NOT EXCEED THE SPECIFIED DESIGN LOADS.

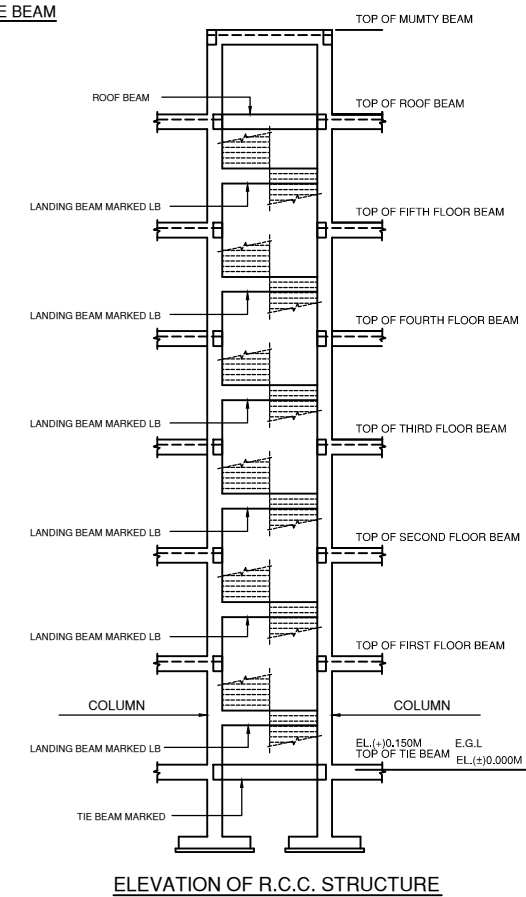
*** SUFFICIENT SUPPORTS (IF REQUIRED) HAS TO BE MAINTAINED BELOW THIS FLOOR WHILE CONCRETING UPPER SLABS.

LOAD CONSIDERED NOTE:

FLOOR LIVE LOAD (COMMERCIAL) = 4.0, 2.0kN/m²
FLOOR LIVE LOAD (RESIDENTIAL) = 4.0, 2.0kN/m²
ACCESS ROOF LIVE LOAD = 1.5kN/m²
NON ACCESS ROOF LIVE LOAD = 0.75kN/m²
WATER TANK WITH WATER DEAD LOAD = 2.0kN/m²



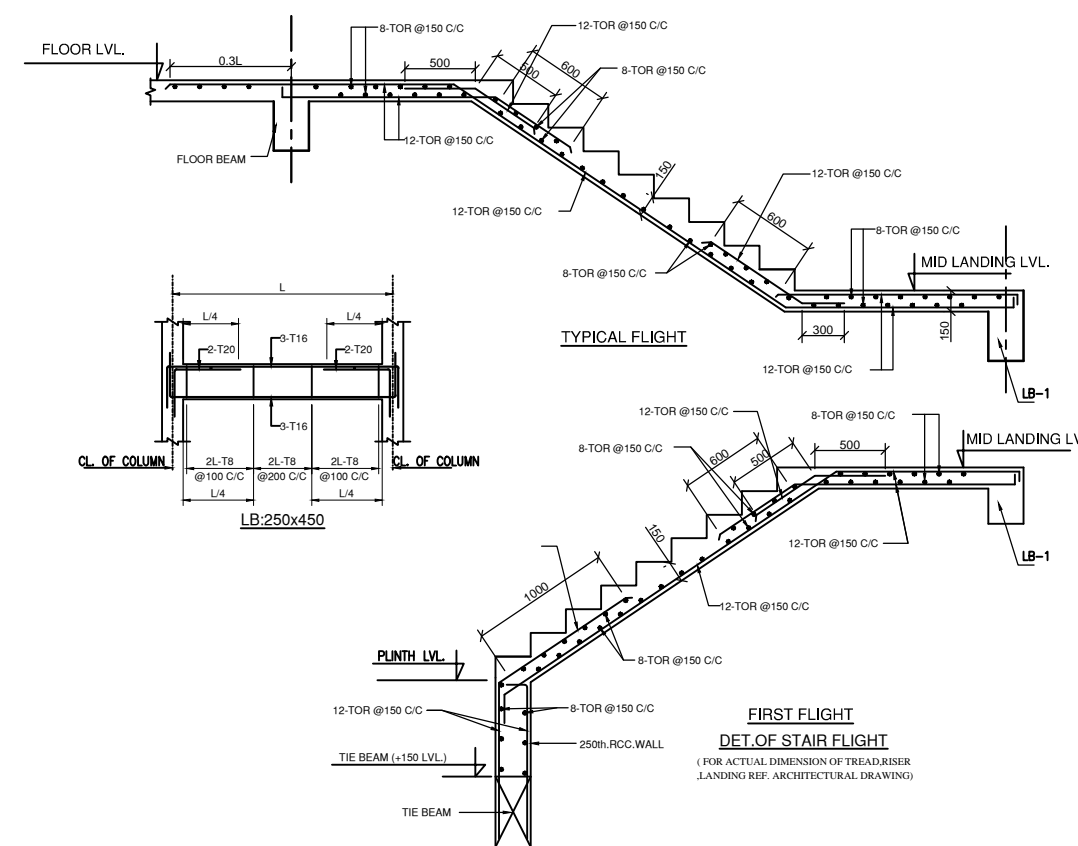
MARKING PLAN OF THE BEAM



ELEVATION OF R.C.C. STRUCTURE

TIE BEAM SCHEDULE (M25:F6500)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B	D	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)
TB1	250	500	3-T16	3-T16	3-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB2	250	500	3-T16	3-T16	3-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB3	250	500	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C



FIRST FLIGHT DET OF STAIR FLIGHT
(FOR ACTUAL DIMENSION OF TREAD/RISER LANDING REF. ARCHITECTURAL DRAWING)

PROJECT

CONSTRUCTION OF PROPOSED BUILDING OF GROUND + 5 (FIVE) STORED RESIDENTIAL BUILDING AT P.S. - RAIGANJ, DIST. - RAIGANJ.

OWNER'S :-

SCHEDULE OF LAND :-

MOUZA :- KARNAJHORA
J.L. NO :- 157
KHATIAN NO :- 3676 (LR)
PLOT NO :- 798,799 (LR)
PLOT NO :- 776 (RS)
P.S :- RAIGANJ
DIST :- UTTARAJAJPUR

DECLARATION OF STRUCTURAL ENGINEER

Certified that the Structural Analysis & Design of CONSTRUCTION OF PROPOSED BUILDING OF GROUND + 5 (FIVE) STORED RESIDENTIAL BUILDING has been prepared by me in the following land schedule: MOUZA:- KARNAJHORA, KHATIAN NO:- 3676 (LR), PLOT NO:- 79, 97, 98,797 (LR), J.L. NO:- 157, P.S:- RAIGANJ, DIST:- RAIGANJ.

It is also certified that the said Structural Analysis has been prepared considering all possible loads including seismic loads and as per latest relevant IS Codes and the proposed structure is safe in all respect.

SIGNATURE OF STRUCTURAL ENGINEER

VETTED BY

TITLE:- MARKING AND DETAILS OF BEAM,SLAB AND STAIR

PROJECT NO:-204/LT, DRAWING NO:-STR-01, REV:R0



NOTES :-

A. GENERAL:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
2. DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL PACKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.

B. CONCRETE WORK:

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2. ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
3. PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
 - a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS +, PIT, TRENCHES ETC.
 - b). M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
4. THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

STRUCTURAL ELEMENT	COVER		
	TOP	BOTTOM	SIDES
a). PLINTH BEAM	25	40	40
b). COLUMNS	50	-	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50

C. REINFORCEMENTS:

1. ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
2. (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS $F_y = 500$ N/MM²) SHALL CONFORM TO IS:1786, (LATEST REVISION)
3. LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
4. ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
5. THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	41xD	33xD

6. LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
7. LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
8. DEVELOPMENT LENGTH (L_d) = 50xD OF THE BAR+10xD OF THE BAR.
9. ALL SPACER BARS ARE 250g @450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.

NOTE:

THIS BUILDING HAS BEEN DESIGNED FOR G+3. ALL EXTERNAL BRICK WALLS ARE 200MM THICK USED DENSITY 20kN/m³ ALL INTERNAL BRICK WALLS ARE 125MM THICK USED DENSITY 20kN/m³

IMPORTANT NOTE:

*BUILDING LOCATIONS AND LEVELS/DIMENSION TO BE FOLLOW APPROVED ARCHITECTURAL DRAWING.

**** LOADINGS:**

LL = 4.0 kN/SOM
SOL = 2.0 kN/SOM
TOTAL = 6.0 kN/SOM

IT HAS TO BE ENSURED THAT AT ANY CASE THE TOTAL CONSTRUCTION LOADS DOES NOT EXCEED THE SPECIFIED DESIGN LOADS.

*** SUFFICIENT SUPPORTS (IF REQUIRED) HAS TO BE MAINTAINED BELOW THIS FLOOR WHILE CONCRETING UPPER SLABS.

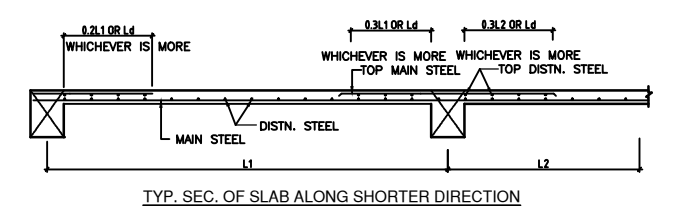
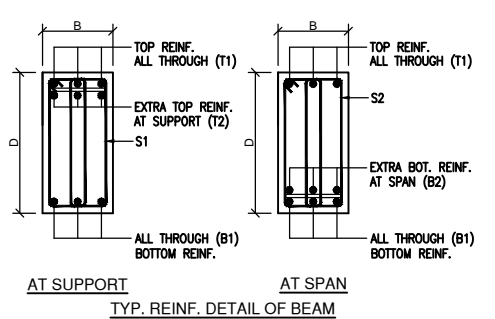
LOAD CONSIDERED NOTE:

FLOOR LIVE LOAD (COMMERCIAL) = 4.0, 2.0kN/m²
FLOOR LIVE LOAD (RESIDENTIAL) = 4.0, 2.0kN/m²
ACCESS ROOF LIVE LOAD = 1.5kN/m²
PS
NON ACCESS ROOF LIVE LOAD = 0.75kN/m²
WATER TANK WITH WATER HEAD LOAD = 2.0kN/m²

MARKING PLAN OF FLOOR & ROOF BEAM

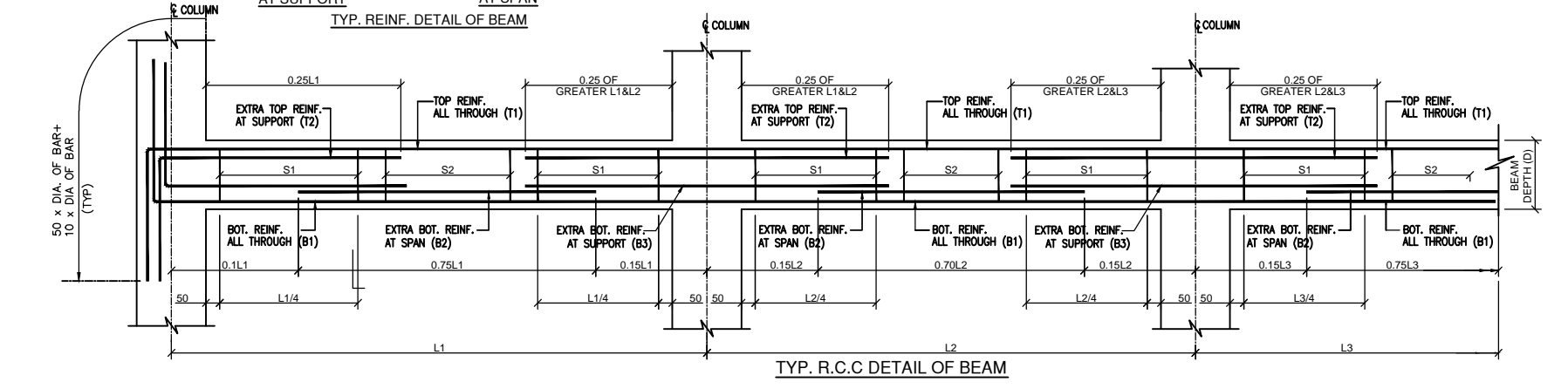
FLOOR BEAM SCHEDULE (M25:Fe500)

BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT		TOP REINFORCEMENT		SHEAR STIRRUPS	
	B	D	SUPPORT	SPAN	SUPPORT	SPAN	SUPPORT(S1)	SPAN(S2)
FB1	250	500	3-T16	3-T16	3-T16 3-T20	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB2	250	500	3-T16	3-T16 + 2-T20	3-T16 3-T25	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB3	250	500	3-T16	3-T16 + 2-T16	3-T16 3-T20	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB4	250	500	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C



FLOOR SLAB SCHEDULE (M25 : FE500)

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
		ALONG SHORT SPAN	ALONG LONG SPAN	OVER LONG SUPPORT	OVER SHORT SUPPORT
S1	125	T8 @ 150 C/C	T8 @ 150 C/C	T8 @ 100 C/C	T8 @ 100 C/C



PROJECT
CONSTRUCTION OF PROPOSED BUILDING OF GROUND + 5 (FIVE) STORED RESIDENTIAL BUILDING AT P.S:- RAIGANJI, DIST:- RAIGANJI.

OWNER'S :-
SCHEDULE OF LAND :-
MOUZA :- KARNAJHORA
J.L. NO :- 157
KHATAN NO :- 3676 (LR)
PLOT NO :- 798,799 (LR)
PLOT NO :- 776 (RS)
P.S :- RAIGANJI
DIST :-UTTARDINAJPUR

DECLARATION OF STRUCTURAL ENGINEER

Certified that the Structural Analysis & Design of CONSTRUCTION OF PROPOSED BUILDING OF GROUND + 5 (FIVE) STORED RESIDENTIAL BUILDING, has been prepared by me in the following land schedule: MOUZA:- KARNAJHORA, KHATAN NO:- 3676 (LR), PLOT NO:- 79, 97, 98,797 (LR), J.L. NO:- 157, P.S:- RAIGANJI, DIST:- RAIGANJI.

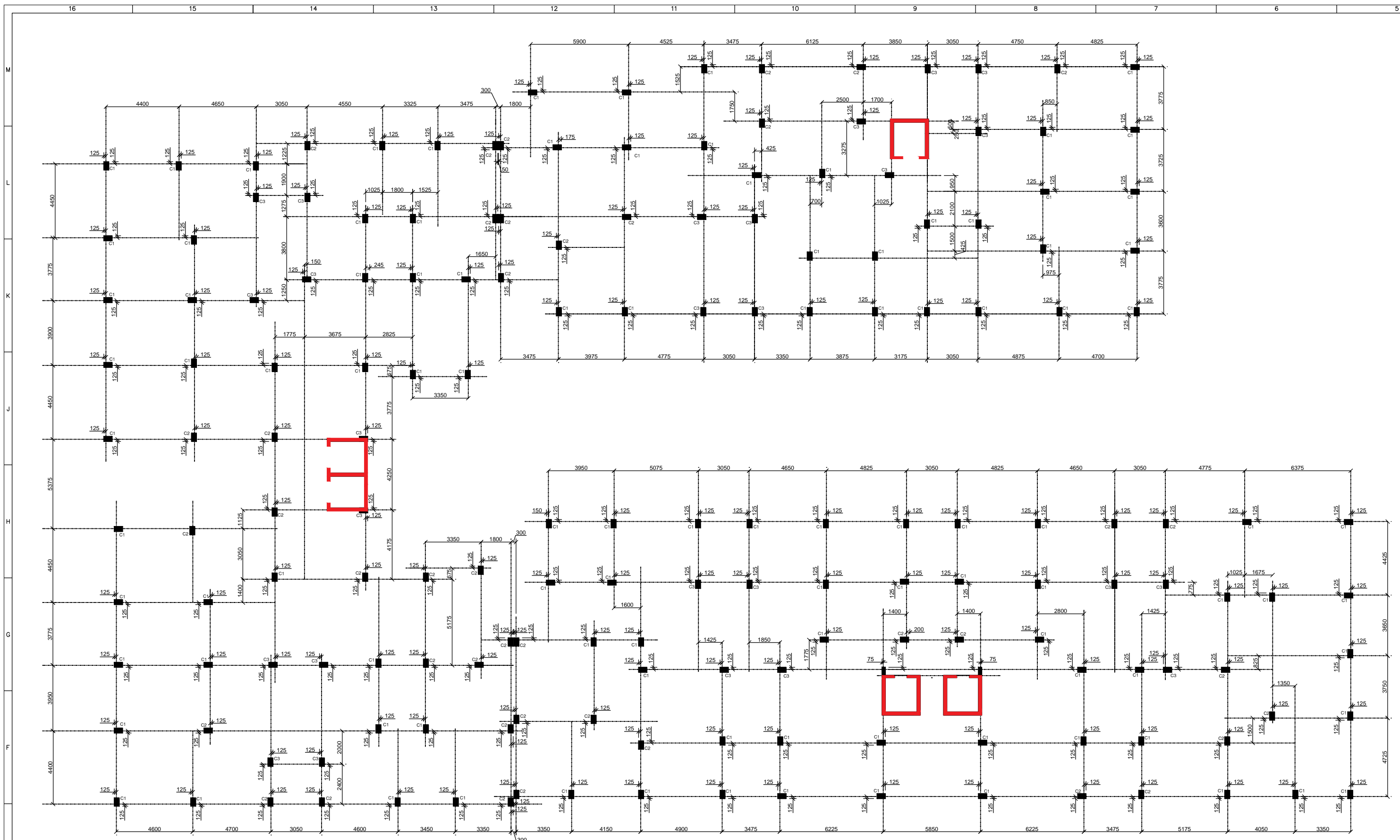
It is also certified that the said Structural Analysis has been prepared considering all possible loads including seismic loads and as per latest relevant IS Codes and the proposed structure is safe in all respect.

SIGNATURE OF STRUCTURAL ENGINEER

VETTED BY

TITLE:- MARKING AND DETAILS OF BEAM,SLAB

PROJECT NO:-204/LT, DRAWING NO:-STR-01 REV:R0



NOTES :-

A. GENERAL:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
2. DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.

B. CONCRETE WORK:

1. ALL CONCRETE WORK SHALL BE AS PER IS-456 (LATEST REVISION)
2. ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
3. PLAN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
 - a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS, PIT, TRENCHES ETC.
 - b). M-15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
4. THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

STRUCTURAL ELEMENT	COVER		
	TOP	BOTTOM	SIDES
a). PLINTH BEAM	25	40	40
b). COLUMNS	50	-	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50

C. REINFORCEMENTS:

1. ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
2. (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS $F_y = 500$ N/MM²) SHALL CONFORM TO IS:1786. (LATEST REVISION)
3. LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
4. ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
5. THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER 'D' SHALL BE AS FOLLOWS:-

CONCRETE GRADE	DEFORMED BARS	
	TENSION	COMPRESSION
M-25	41XD	33XD

6. LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
7. LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
8. DEVELOPMENT LENGTH (L_d) = 50D OF THE BAR+10D OF THE BAR.
9. ALL SPACER BARS ARE 250g @450 C/C AND TO BE PROVIDED WHEREVER REQUIRED.

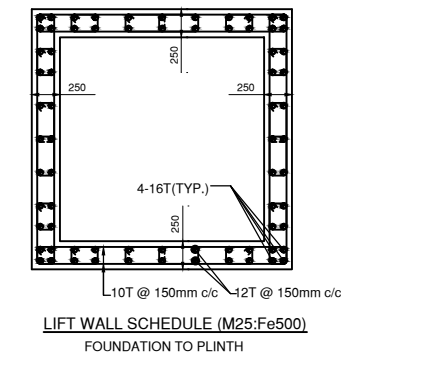
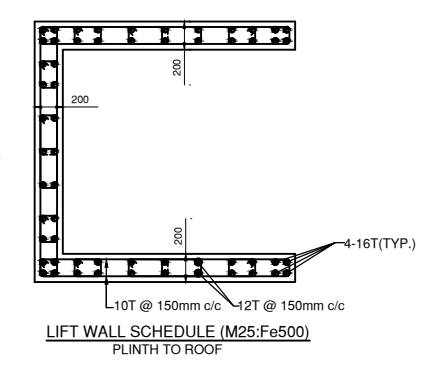
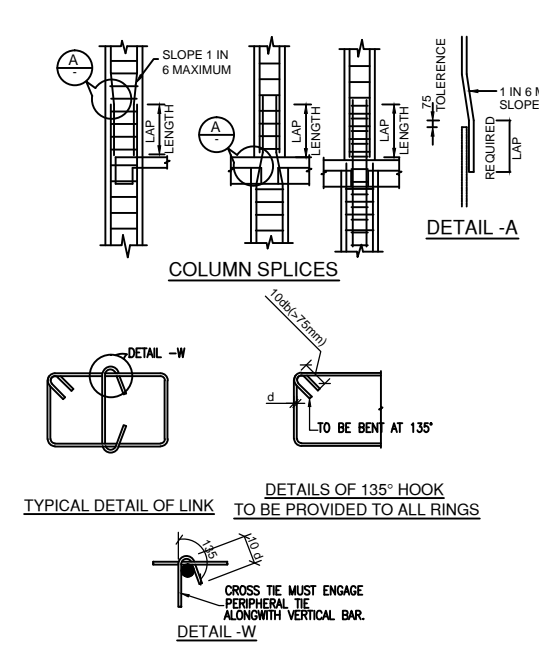
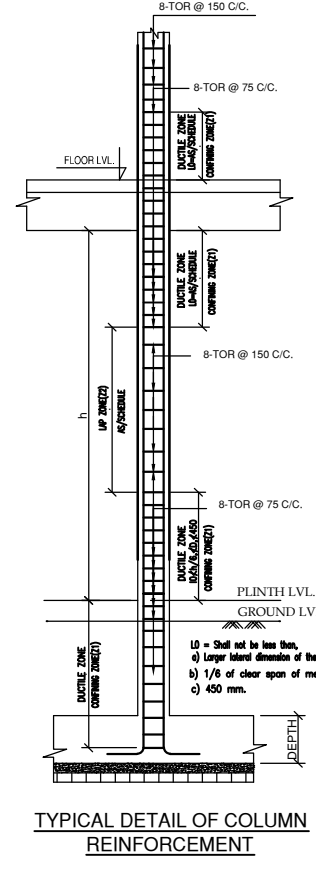
NOTE:
THIS BUILDING HAS BEEN DESIGNED FOR G+3.
ALL EXTERNAL BRICK WALLS ARE 200MM THICK USED DENSITY 20kN/m³
ALL INTERNAL BRICK WALLS ARE 125MM THICK USED DENSITY 20kN/m³

IMPORTANT NOTE:
**BUILDING LOCATIONS AND LEVELS/DIMENSION TO BE FOLLOW APPROVED ARCHITECTURAL DRAWING.
** LOADINGS:
LL = 4.0 kN/SQM
SSL = 2.0 kN/SQM
TOTAL = 6.0 kN/SQM
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*** SUFFICIENT SUPPORTS (IF REQUIRED) HAS TO BE MAINTAINED BELOW THIS FLOOR WHILE CONCRETING UPPER SLABS.

LOAD CONSIDERED NOTE:
FLOOR LIVE LOAD(COMMERCIAL) = 4.0, 2.0kN/m²
FLOOR LIVE LOAD(RESIDENTIAL) = 4.0, 2.0kN/m²
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NON ACCESS ROOF LIVE LOAD = 0.75kN/m²
WATER TANK WITH WATER DEAD LOAD = 2.0kN/m²

MARKING PLAN OF COLUMN

	C1			C2			C3		
ROOF	M25 - F6900 COVER = 40mm CONFINING ZONE = 500 MM			M25 - F6900 COVER = 40mm CONFINING ZONE = 500 MM			M25 - F6900 COVER = 40mm CONFINING ZONE = 500 MM		
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS
2nd FLOOR	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150
	12-T16			12-T16			6-T20 + 6-T16		
2nd FLOOR	M25 - F6900 COVER = 40mm CONFINING ZONE = 500 MM			M25 - F6900 COVER = 40mm CONFINING ZONE = 500 MM			M25 - F6900 COVER = 40mm CONFINING ZONE = 500 MM		
TO	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS
FOOTING	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150	T8 @ 75	T8 @ 75	T8 @ 150
	4-T20 + 6-T16			6-T20 + 6-T16			12-T20		
COLUMN MARKED	C1			C2			C3		



PROJECT
CONSTRUCTION OF PROPOSED BUILDING OF GROUND + 5 (FIVE) STORED RESIDENTIAL BUILDING AT P.S. - RAIGANJ, DIST. - RAIGANJ.

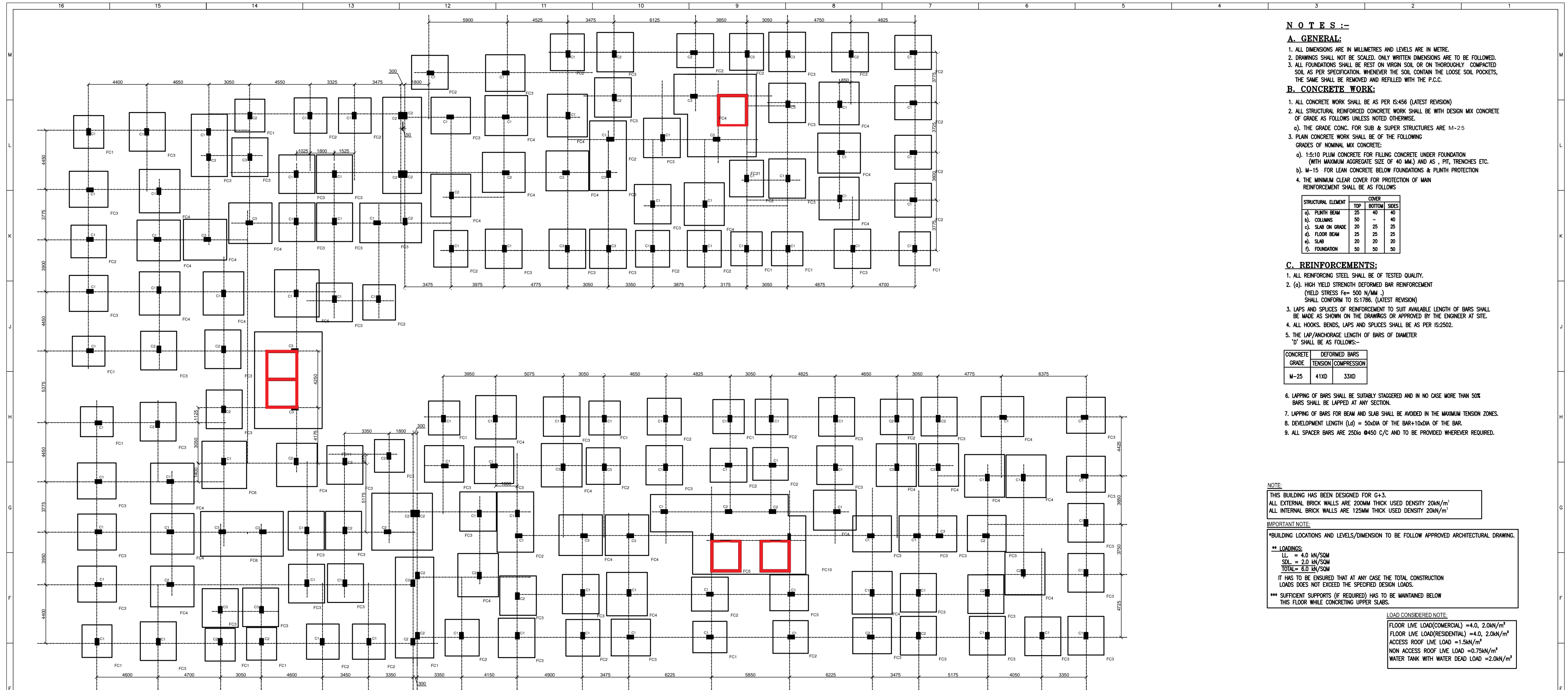
OWNER'S :-
SCHEDULE OF LAND :-
MOUZA :- KARNAJHORA
J.L. NO :- 157
KHATAN NO :- 3676 (LR)
PLOT NO :- 798,799 (LR)
PLOT NO :- 776 (RS)
P.S. :- RAIGANJ
DIST :- UTTARAJAJPUR

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It is also certified that the said Structural Analysis has been prepared considering all possible loads including seismic loads and as per latest relevant IS Codes and the proposed structure is safe in all respect.

SIGNATURE OF STRUCTURAL ENGINEER

VETTED BY

TITLE:-
MARKING AND DETAILS OF COLUMN
PROJECT NO:-204/LT, DRAWING NO:-STR-01, REV:R0



- NOTES :-**
- A. GENERAL:**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
 2. DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
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STRUCTURAL ELEMENT	COVER	
	TOP	BOTTOM
a). PLINTH BEAM	25	40
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- C. REINFORCEMENTS:**
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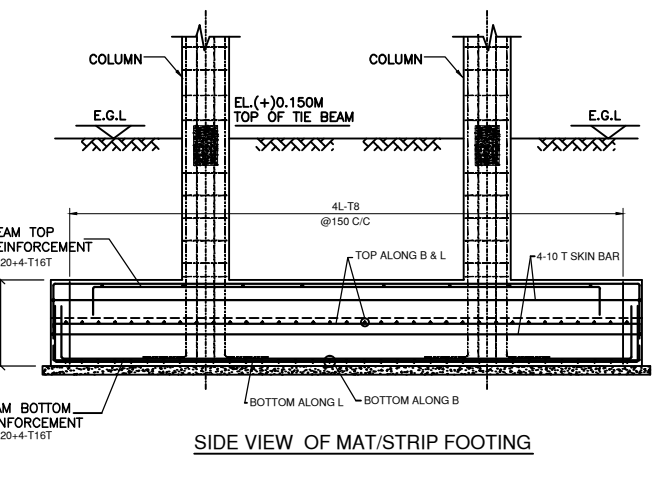
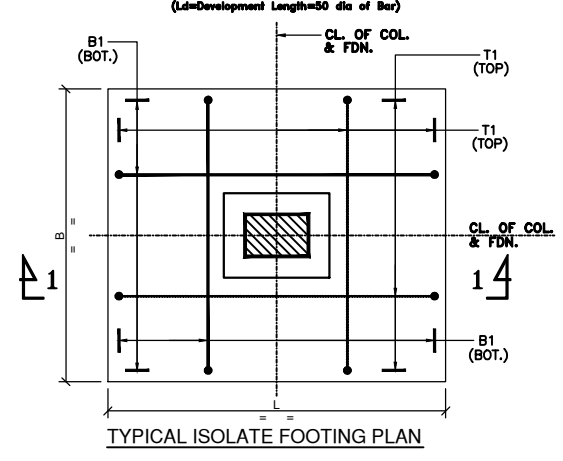
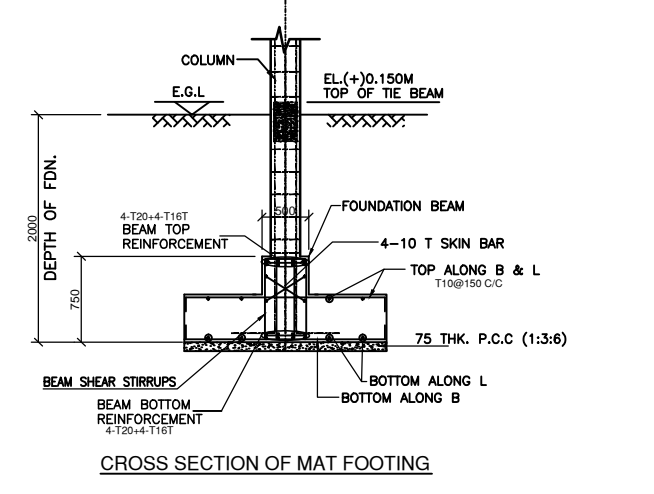
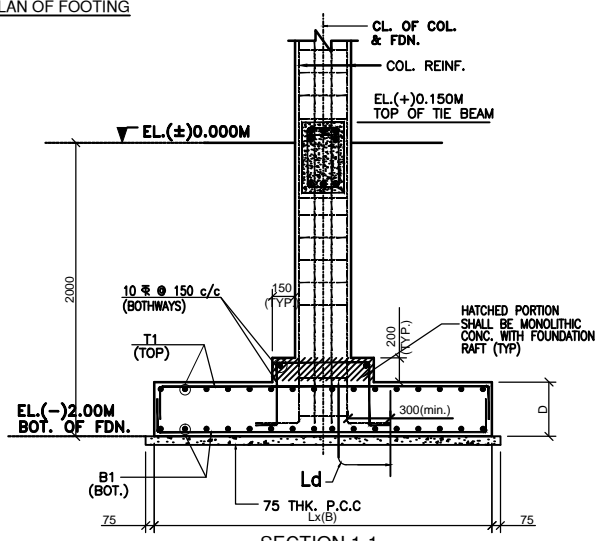
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NON ACCESS ROOF LIVE LOAD = 0.75kN/m²
WATER TANK WITH WATER DEAD LOAD = 2.0kN/m²

MARKING PLAN OF FOOTING

FOOTING SCHEDULE (M25:F4500)

FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION			FOOTING REINFORCEMENT			
		L	B	D	BOTTOM		TOP	
					ALONG B	ALONG L	ALONG B	ALONG L
FC1	PAD	2550	2350	500	T12@175C/C	T12@175C/C	T8@200 C/C	T8@200 C/C
FC2	PAD	2750	2550	550	T12@150C/C	T12@150C/C	T8@175 C/C	T8@175 C/C
FC3	PAD	2950	2750	575	T12@150C/C	T12@150C/C	T8@200 C/C	T8@200 C/C
FC4	PAD	3250	3050	650	T12@150C/C	T12@150C/C	T8@175 C/C	T8@175 C/C



PROJECT
CONSTRUCTION OF PROPOSED BUILDING OF GROUND + 5 (FIVE) STORED RESIDENTIAL BUILDING AT P.S:- RAIGANJ, DIST:- RAIGANJ.

OWNER'S :-

SCHEDULE OF LAND :-
MOUZA :- KARNAJHORA
J.L. NO :- 157
KHATAN NO :- 3676 (LR)
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SIGNATURE OF STRUCTURAL ENGINEER

VETTED BY

TITLE:- MARKING AND DETAILS OF FOOTING

PROJECT NO:-204/LT, DRAWING NO:-STR-01, REV:R0