SCHEDULE OF COLUMN:

CONC. GRADE	COL. MKD.	C1,C3,C4,C5, C6,C7,C8, C10,C13,C15.	C2,C9.	C11,C12,C14.
	COL. SIZE	300X500	300X500	300X500
M20	FND. TO ROOF FL. LVL.	300, 500, 12-16ϕ (4 Set Stirrups) CONFINING ZONE-A=550mm	300, 500, 6-20ϕ+6-16ϕ (4 Set Stirrups) CONFINING ZONE-A=550mm	300, 500, 8-20ϕ+6-16ϕ (4 Set Stirrups) CONFINING ZONE-A=550mm
	COL. SIZE	300X500	300X500	300X500
M20	2ND. FL. LVL. TO 1ST.	300, 500, 8-16ϕ+6-12ϕ (4 Set Stirrups) CONFINING ZONE-A=500mm	300, 500, 12-16ϕ (4 Set Stirrups) CONFINING ZONE-A=500mm	300, 500, 4-20ϕ+8-16ϕ (4 Set Stirrups) CONFINING ZONE-A=500mm
STIRRUPS ARRANGEMENT				

SCHEDULE OF TYPICAL FLOOR SLAB:

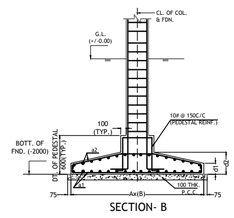
SLAB MKD.	SLAB THK.	REINFORCEMENT			
		BOTTOM REINF.(CURTILED)		TOP REINF.(CURTILED)	
		Along Shorter Span	Along Longer Span	Along Shorter Span	Along Longer Span
S1	115	8 # @125 C/C	8 # @125 C/C	8 # @125 C/C	8 # @125 C/C
Mumpty room	110	8 # @175 C/C	8 # @175 C/C	8 # @175 C/C	8 # @175 C/C
Sc	175	Main Bar: 10 # @100 C/C ;		Binder Bar: 8 # @200 C/C	
Waist Slab	150	Main Bar: 12 # @125 C/C ;		Binder Bar: 8 # @200 C/C	
Binder For Top Bar: 8 # @200 C/C					

SCHEDULE OF ISOLATED FOOTING:

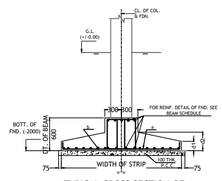
FOOTING MKD.	LENGTH (A)	WIDTH (B)	DEPTH d1	DEPTH d2	REINFORCEMENT AT BOTT. BOTH WAY(a1)	REINFORCEMENT AT TOP BOTH WAY(a2)	REMARKS
F1	2250	2250	300	550	12# @ 125 C/C	8# @ 125 C/C	FOR PEDESTAL REINF. REFER TYP. FOOTING SECTION.
F2	2500	2500	300	600	12# @ 100 C/C	8# @ 100 C/C	

SCHEDULE OF STRIP FOOTING:

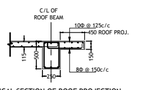
FOOTING MKD.	WIDTH	FDN. SLAB DEPTH (d1)	FDN. SLAB DEPTH (d2)	SLAB REINFORCEMENT MAIN BAR (a)	SLAB REINFORCEMENT DISTRIBUTION BAR (b)	FDN. BEAM SIZE	BEAM LONGITUDINAL REINFORCEMENT ALL THROUGH TOP	BEAM LONGITUDINAL REINFORCEMENT ALL THROUGH BOTTOM.	BEAM LONGITUDINAL REINFORCEMENT (EXTRA BUTTOM AT SUPPORT)	BEAM LONGITUDINAL REINFORCEMENT (EXTRA TOP AT SPAN)	BEAM STIRRUPS AT SUPPORT	BEAM STIRRUPS AT MID SPAN
CF1	2000	300	500	12# @ 125 C/C	8# @ 150 C/C	600x600	6-20#	6-20#	-------	-------	4L-10 Dia. @100 C/C	4L-10 Dia. @150 C/C
CF2	2250	300	500	12# @ 125 C/C	8# @ 150 C/C	600x600	6-20#	6-20#	2-20#	2-20#	4L-10 Dia. @100 C/C	4L-10 Dia. @150 C/C
CF3	2500	300	500	12# @ 100 C/C	8# @ 150 C/C	600x600	6-20#	6-20#	2-20#	2-20#	4L-12 Dia. @100 C/C	4L-12 Dia. @150 C/C



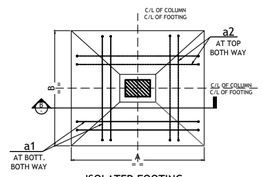
SECTION- B



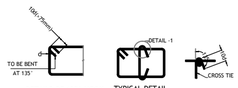
TYPICAL CROSS SECTION OF COMBINED FOOTING



TYPICAL SECTION OF ROOF PROJECTION
SCALE- 1:25

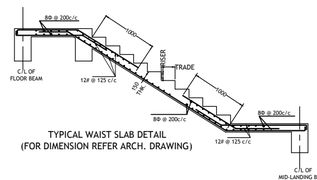


ISOLATED FOOTING
(TYPICAL)

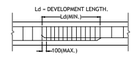


DETAILS OF 135° HOOK TO BE PROVIDED TO ALL LINK

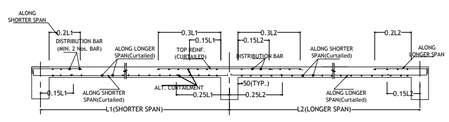
TYPICAL DETAIL OF LINK



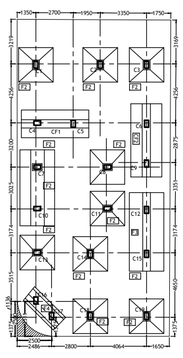
TYPICAL WAIST SLAB DETAIL
(FOR DIMENSION REFER ARCH. DRAWING)



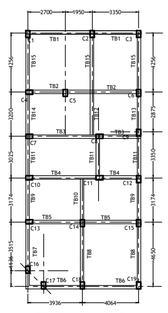
LAP LENGTH AT LOCATION OF SPLICING OF LONGITUDINAL BAR IN BEAMS



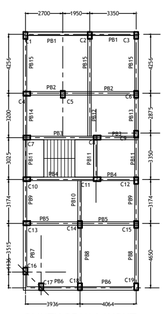
COLUMN CENTER LINE LAYOUT
(SCALE 1:100)



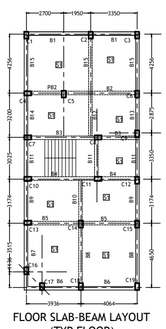
COLUMN FOUNDATION LAYOUT
(SCALE 1:100)



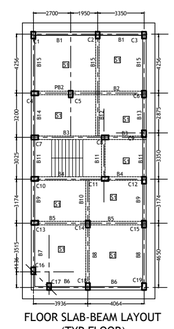
TIE BEAM LAYOUT
(T.O.C. -1050 LVL.)
(SCALE 1:100)



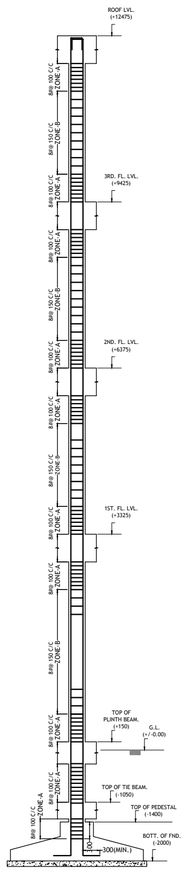
PLINTH BEAM LAYOUT
(T.O.C. +150 LVL.)
(SCALE 1:100)



FLOOR SLAB-BEAM LAYOUT
(TYP FLOOR)
(SCALE 1:100)



FLOOR SLAB-BEAM LAYOUT
(TYP FLOOR)
(SCALE 1:100)



LONGITUDINAL SECTION
OF COLUMN (TYP.)

STRUCTURAL DRAWING

PROJECT:
GROUND(Parking)+3 STORIED RESIDENTIAL BUILDING OF:

SMT.SADHANA SEN,D/O-LATE MANINDRA KUMAR SENY, AT EAST VIVEKANANDA PALLY,NEAR FRIENDS UNION CLUB SILIGURI ,WARD NO- 38 (S.M.C),P.O.-RABINDRASARANI , P.S.- BHAKTINAGAR, DIST.- JALPAIGURI .

CERTIFICATE OF THE ARCHITECT

CERTIFICATE OF THE ENGINEER :

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

NAME OF CIVIL/STRUCTURAL ENGINEER
ENROLLMENT NO: STR/SMC/XX/XXXX

GEO-TECHNICAL CONSULTANT :
ACHARYA ASSOCIATES
35,DINABANDHU MITRA SARANI,SUBHASPALLY,SILIGURI, DIST.DARJEELING,PIN 734001.

GENERAL NOTES:
UNLESS SPECIALLY MENTIONED ON a DRAWING THE FOLLOWING NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS.

1. CO-ORDINATE THIS DRAWING ALONG WITH RELEVANT ARCHITECTURAL AND SERVICES DRAWINGS.
2. ALL DIMENSIONS AND LEVELS ARE IN MILLIMETERS UNLESS MENTION OTHERWISE.
3. DO NOT SCALE THE DRAWING, FOLLOW WRITTEN DIMENSIONS ONLY.
4. ALL STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS, LAYOUT DIMENSIONS AS GIVEN IN STRUCTURAL DRAWINGS SHALL BE VERIFIED FROM RELEVANT ARCHITECTURAL DRAWINGS. IN CASE OF ANY AMBIGUITY IN DRAWINGS, THE MATTER SHALL BE REFERRED TO THE CONSULTANT BEFORE EXECUTION OF WORK AT SITE.
5. ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C., NET SAFE BEARING CAPACITY TAKEN FOR DESIGN OF ISOLATED FOOTING IS 150 kN/m². AS PER SOIL TEST REPORT.
6. THE LATEST REVISION OF THE DRAWING SHALL BE CONSIDERED WHILE REFERRING THE ISSUED-FOR-CONSTRUCTION DRAWING.

CONCRETE:
7. ALL CONCRETE WORK SHALL BE AS PER IS :456-2000.
8. ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN M20 CONCRETE OF GRADE M20 UNLESS NOTED OTHERWISE.
9. PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
   a). 1:5:10 PLIN CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND a). PIT, TRENCHES ETC.
   b). 1:4:8 PLIN CONCRETE FOR TILE BELOW FOUNDATION & TIE PROTECTION.

REINFORCEMENT STEEL:
10. ALL REINFORCING STEEL SHALL BE OF TESTED QUALITY.
11. ALL REINFORCEMENTS UNLESS OTHERWISE SPECIFIED SHALL BE COLD DEFORMED HIGH YIELD STRENGTH BARS, CONFORMING TO IS:456 AND IS:1786 WITH MINIMUM YIELD STRENGTH OF 500 N/sq. MM.
12. UNLESS OTHERWISE SPECIFIED MINIMUM LAP LENGTH FOR REINFORCEMENT SHALL BE 50 DIA. FOR FE 415 BARS AND 40 DIA. FOR FE 500 BARS. LAPS SHALL NOT BE MADE IN ANY SECTION. FOR SLABS & BEAMS LAPS SHALL NOT BE PROVIDED AT MID SPAN. FOR BOTTOM BARS AND CLOSE TO SUPPORTS FOR TOP BARS.
13. 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.
14. ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.

CLEAR COVER:
15. UNLESS OTHERWISE SPECIFIED ON THE DRAWING CLEAR COVER TO THE MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
    COLUMN – 40 MM, BEAM – 25 MM, TIE BEAM – 30 MM, PLINTH & FLOOR BEAM – 25 MM, SLAB – 20 MM.
16. STRUCTURAL SPECIFICATIONS AND NOTES MENTIONED ABOVE SHALL BE FOLLOWED FOR ALL DRAWINGS AND CONSTRUCTION ACTIVITIES.

DRG. TITLE:
PARKING + THREE STORIED RESIDENTIAL BUILDING:
COLUMN FOUNDATION LAY-OUT & TIE, PLINTH, FLOOR, ROOF BEAM LAY-OUT, TYP. DETAIL OF FOOTING, COLUMN, SLAB, STAIRCASE, SCHEDULE OF ISOLATED & STRIP FOOTING, COLUMN & FLOOR SLAB.

CONSULTANT:
J. MOHANTA & ASSOCIATES
1 NO DABGRAM COLONY,PRITILATA ROAD
SILIGURI -734006
CONTACT : 94748-73261

DWG. NO.: JMA/SADHANA SEN/STR./01/2021-22		
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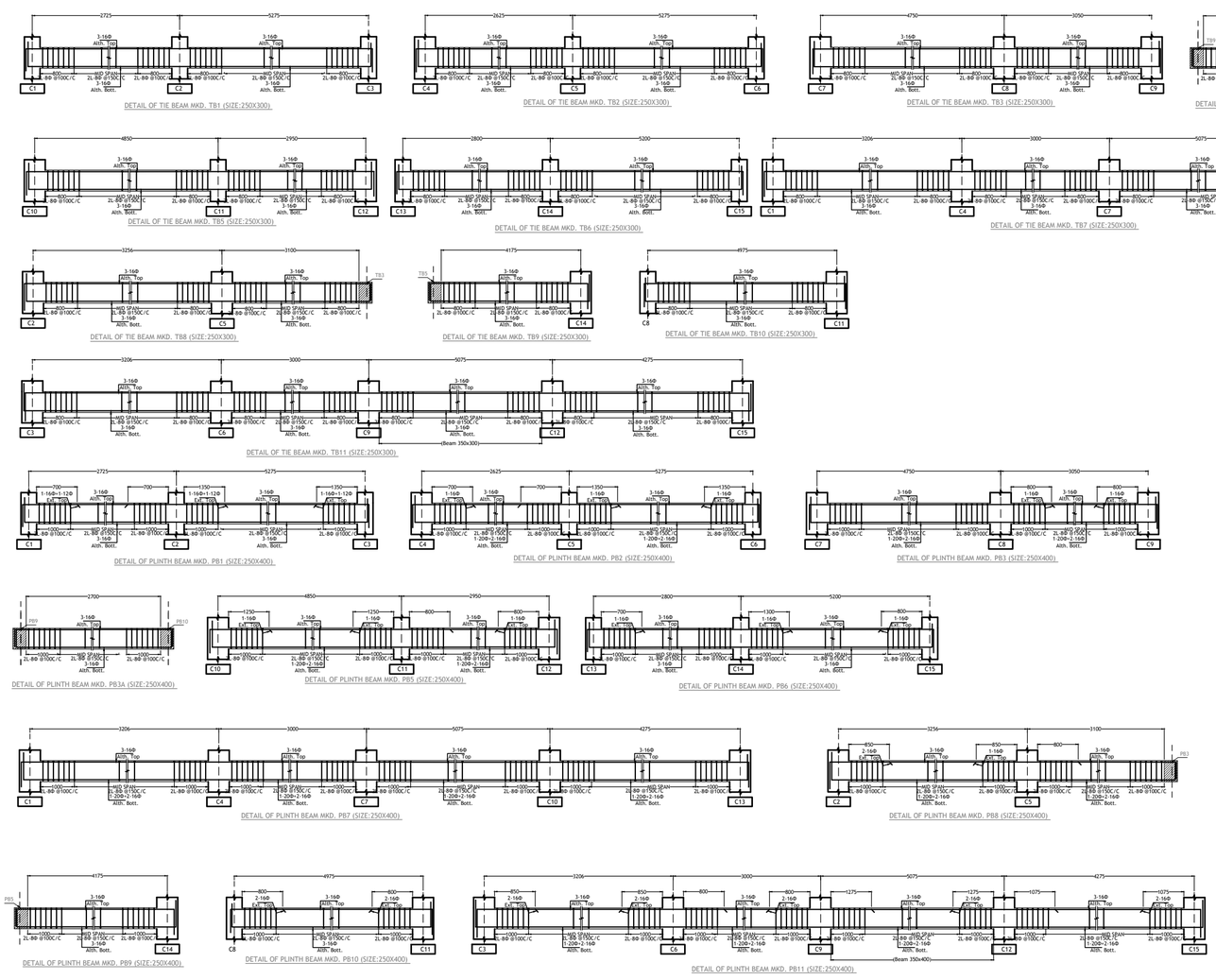
DATE: 24.03.2022	SIZE: 1190X841	REVISION: R0



NOTE:
DO NOT SCALE THE DRAWING.
WRITTEN DIMENSIONS TO BE FOLLOWED.

STRUCTURAL DRAWING

PROJECT:
GROUND(Parking)+3 STORIED RESIDENTIAL BUILDING OF:

SMT.SADHANA SEN,D/O-LATE MANINDRA KUMAR SENY, AT EAST VIVEKANANDA PALLY,NEAR FRIENDS UNION CLUB SILIGURI ,WARD NO- 38 (S.M.C),P.O.-RABINDRASARANI , P.S.- BHAKTINAGAR, DIST.- JALPAIGURI .

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NAME OF CIVIL/STRUCTURAL ENGINEER
ENROLLMENT NO: STR/SMC/XX/XXXX

DRG. TITLE:
PARKING + THREE STORIED RESIDENTIAL BUILDING:
DETAIL OF TIE BEAM, PLINTH BEAM, FLOOR BEAM & ROOF BEAM.

CONSULTANT:
J. MOHANTA & ASSOCIATES
1 NO DABGRAM COLONY,PRITILATA ROAD
SILIGURI -734006
CONTACT : 94748-73261

DWG. NO.: JMA/SADHANA SEN/STR./01/2021-22		
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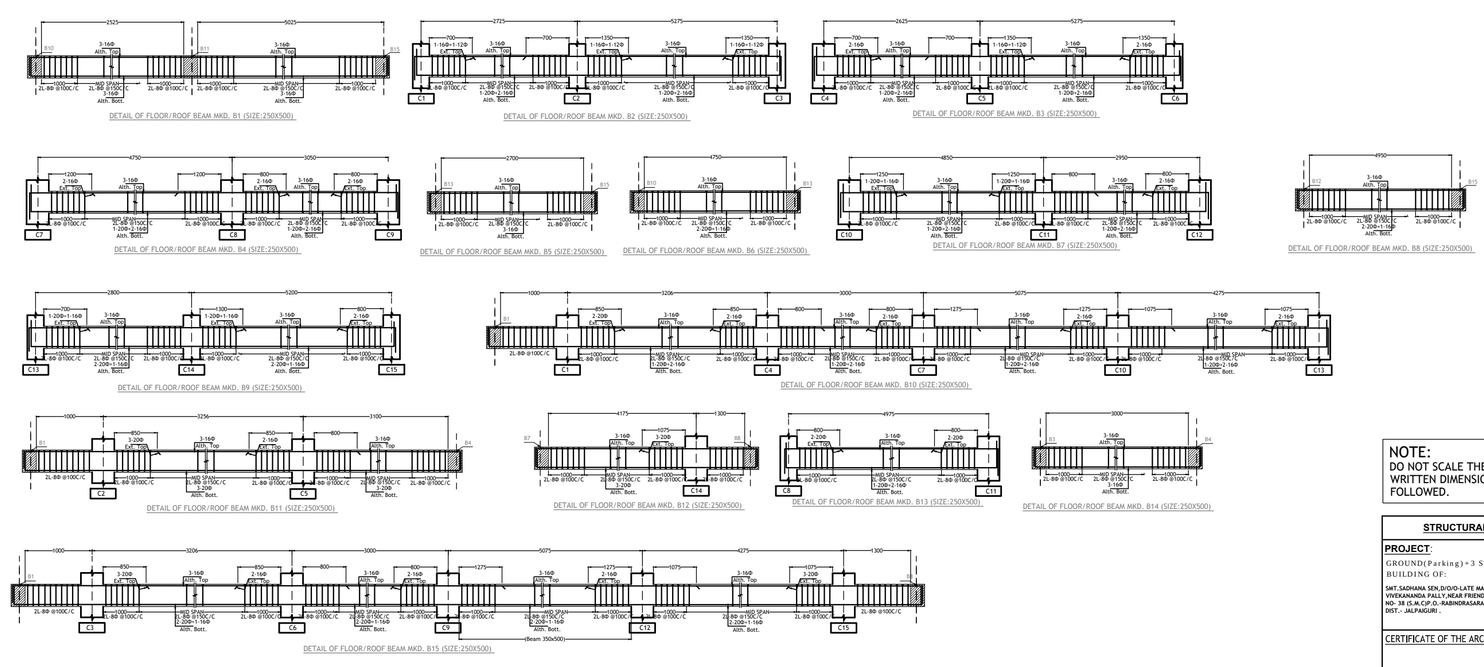

NOTE:
DO NOT SCALE THE DRAWING.
WRITTEN DIMENSIONS TO BE FOLLOWED.

STRUCTURAL DRAWING

PROJECT:
GROUND(Parking)+3 STORIED RESIDENTIAL BUILDING OF:

SMT.SADHANA SEN,D/O-LATE MANINDRA KUMAR SENY, AT EAST VIVEKANANDA PALLY,NEAR FRIENDS UNION CLUB SILIGURI ,WARD NO- 38 (S.M.C),P.O.-RABINDRASARANI , P.S.- BHAKTINAGAR, DIST.- JALPAIGURI .

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NAME OF CIVIL/STRUCTURAL ENGINEER
ENROLLMENT NO: STR/SMC/XX/XXXX

DRG. TITLE:
PARKING + THREE STORIED RESIDENTIAL BUILDING:
DETAIL OF TIE BEAM, PLINTH BEAM, FLOOR BEAM & ROOF BEAM.

CONSULTANT:
J. MOHANTA & ASSOCIATES
1 NO DABGRAM COLONY,PRITILATA ROAD
SILIGURI -734006
CONTACT : 94748-73261

DWG. NO.: JMA/SADHANA SEN/STR./01/2021-22		
SCALE: ---		SHEET: 3 OF 3
DATE: 24.03.2022	SIZE: 1189X841	REVISION: R0