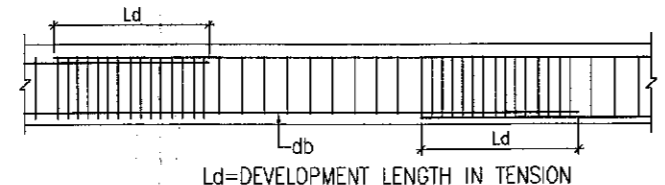
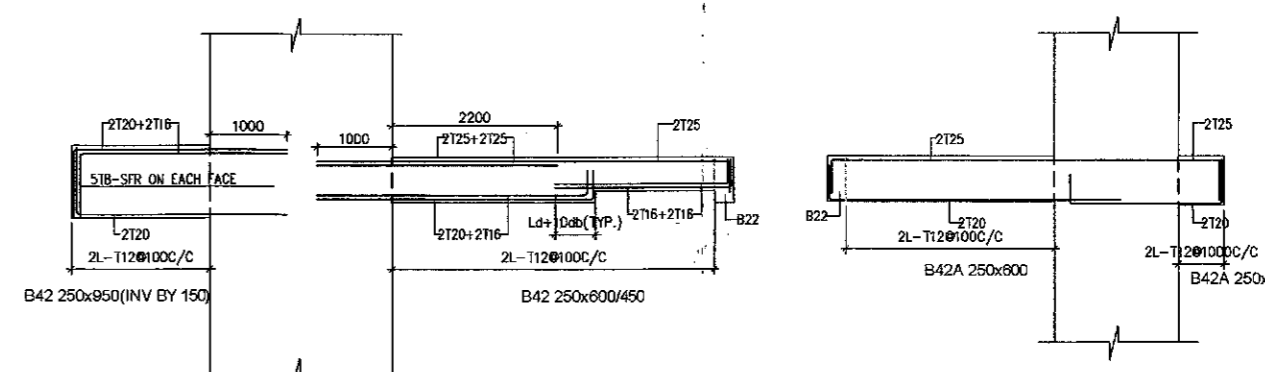
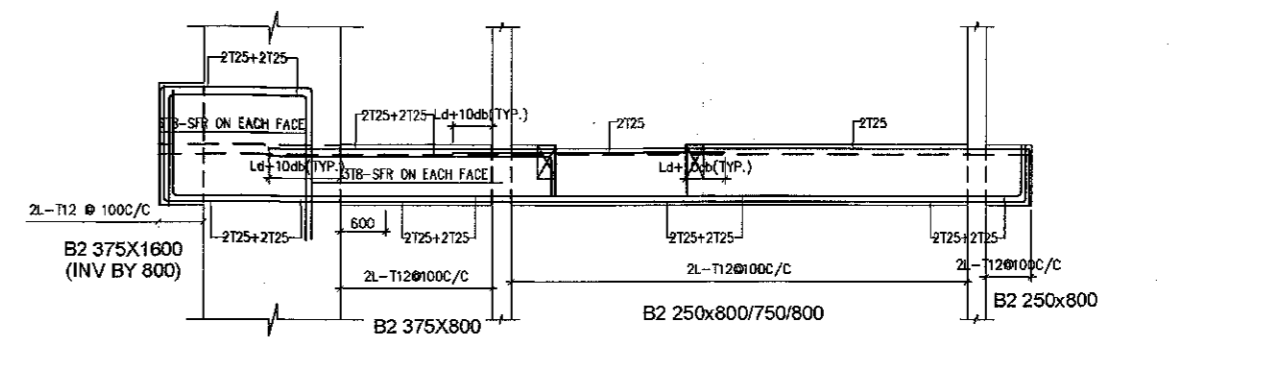
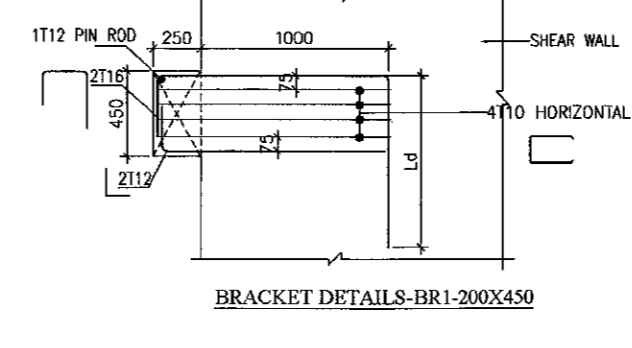
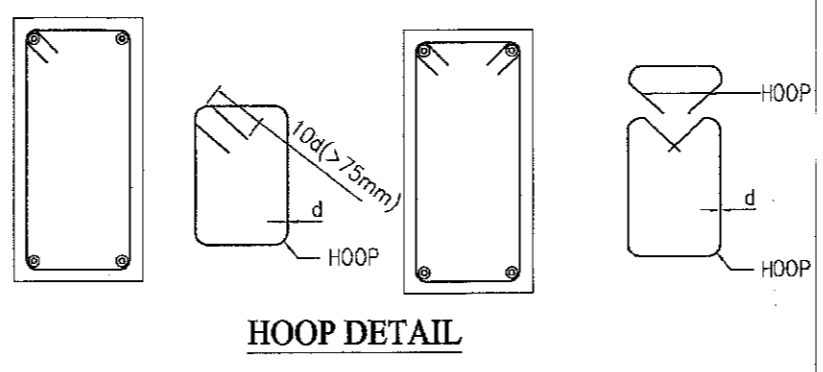


TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAMS
TYP. BAR DETAIL FOR SPECIAL DUCTILE MOMENT RESISTING FRAME
 AS PER 13920 - 1993(2002 & 2003) & S.P. 34(S & T) - 1987



LAP SPLICE IN BEAM

1. THE HOOPS ARE PROVIDED OVER THE ENTIRE SPLICE LENGTH SHALL NOT EXCEEDING 150mm.
2. THE LAP LENGTH SHALL NOT BE LESS THAN BAR DEVELOPMENT LENGTH IN TENSION.
3. THE LAP SHALL NOT BE PROVIDED, IF:
 - a) WITHIN THE JOINT
 - b) WITH A DISTANCE OF 2d FROM JOINT FACE
 - c) WITHIN A QUARTER LENGTH OF MEMBER WHERE FLEXURAL YIELDING MAY GENERALLY OCCUR UNDER THE EFFECT OF EARTHQUAKE FORCE.
 - d) NOT MORE THAN 50% OF BARS SPLICED AT ONE SECTION
 - e) USE OF WELD SPLICES & MECHANICAL CONNECTIONS MAY ALSO BE ADOPTED AS PER IS 456-2000.



SPAN	SIZE	STIRRUPS	TOP REINF.	BOT REINF.
B25	1925-CLEAR	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B43	1850-CANTILEER	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B44	1925	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B45	5000	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B46	3775	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B48	1475	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B49	775	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B50	2600	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B51	1950	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B54	1350	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B55	6275	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B55A	3475	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B56	2675-CLEAR(CANTILEER)	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B58	2950-CLEAR(CANTILEER)	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B59	2025	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B60	3625-CLEAR	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B61	2275-CLEAR	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B62	3025-CLEAR(CANTILEER)	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B63	2275-CLEAR(CANTILEER)	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B64	5050	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B65	5400	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B65A	2000-CLEAR	2-112 @ 100C/C	2-112 @ 100C/C	2-112 @ 100C/C
B66	1725-CLEAR(CANTILEER)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B67	4200-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B68	1900	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B70	400-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B71	875	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B72	1500-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B75	430	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B76	4975	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B77	1500-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B78	375	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B79	1800-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B80	2550	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B81	1600-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B82	1500-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B83	7470-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B84	2375-CLEAR-CANTILEER	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B85	2845-CLEAR(CANTILEER)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B86	1650-CLEAR	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B87	1850	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B88	2900	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B89	2300	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B90	2900	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B91	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B92	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B93	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B94	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B95	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B96	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B97	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B98	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B99	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C
B100	2000(NV BY 150)	2-110 @ 100C/C	2-110 @ 100C/C	2-110 @ 100C/C

SPECIFICATIONS:-

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL EXTERNAL WALLS ARE 200mm & ALL INTERNAL WALLS ARE 120mm.
- THE DEPTH OF S.U.G.W.R. & SEPTIC TANK SHALL NEVER EXCEED THE DEPTH OF FOUNDATION.
- BRICK WORK 200mm MORTAR 1:6 & BRICK WORK 125mm MORTAR 1:4.
- ALL R.C.C. WORKS MUST EXCEPT FOUNDATION MUST BE GRADE OF STEEL PER IS 415 S. CODE 1986-1979.
- ALL SHORTS OF PRECAST/CAST-IN-SITU CONCRETE SHALL BE TAKEN AT THE TIME OF CONSTRUCTION.
- OTHERS ITEM ARE AS PER I.S. SPECIFICATION.

DECLARATION OF GEO-TECHNICAL ENGINEER:

UNDERIGNED HAS INSPECTED THE SITE AND CARRIED OUT SOIL INVESTIGATION THEREON. IT IS CERTIFIED THAT THE EXISTING SOIL OF THE SITE IS ABLE TO CARRY THE LOAD COMING FROM THE PROPOSED CONSTRUCTION AND THE FOUNDATION SYSTEM PROPOSED HEREIN IS SAFE AND STABLE IN ALL RESPECTS FROM GEO-TECHNICAL POINT OF VIEW.

Jishnu Pal
JISHNU PAL
 B.Tech (Civil), M.E (Geo-tech)
 KMC Reg. No. G.T/11/32
 O.T.E.R./NKDA/10/0043
 22 RAISON/G.T/1/2018-17
 H.M.C. Reg. No. EGTE/CLASS-1/15

SIGNATURE OF GEO-TECHNICAL ENGINEER:

I HAVE REVIEWED / CHECKED THE STRUCTURAL DRAWING AND DESIGN DETAILS OF THIS PROJECT WHICH HAS BEEN DONE COMPLYING RELEVANT IS CODE INCLUDING FOUNDATION AND THE NATIONAL BUILDING CODE. I CERTIFY THAT THE STRUCTURE WILL BE SAFE AGAINST ALL VERTICAL AND LATERAL LOADS INCLUDING EARTHQUAKE FORCE.

Upal Sanjay
 B.C.E. M.C.E. (STRUCT.)
 E.S.R. (I) 58/10
 F.I.E. (I) 212601
 F.I.E. (I) 212601
 U.P. SANJAY
 SIGN OF STRUCTURAL REVIEWER.

CERTIFICATE OF STRUCTURAL ENGINEER.

THIS IS TO CERTIFY THAT 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 RESPECTS.

Sumita Deb
SUMITA DEB
 M.C.E., M.F.E., C.E.
 556/1/93

SIGNATURE OF STRUCTURAL ENGINEER:

WE DO HERE BY UNDERTAKE WITH FULL RESPONSIBILITY THAT - (1) WE SHALL ENGAGE ARCHITECT & E.S.E DURING CONSTRUCTION. (2) WE SHALL FOLLOW THE INSTRUCTION OF ARCHITECT & E.S.E DURING CONSTRUCTION OF THE BUILDING (AS PER B.S. PLAN). (3) K.M.C AUTHORITY WILL NOT BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE BUILDING & ADJOINING STRUCTURE. (4) IF ANY SUBMITTED DOCUMENTS ARE FOUND TO BE FAKE, THE K.M.C AUTHORITY WILL REMOVE THE SANCTION PLAN. (5) THE CONSTRUCTION OF WATER RESERVOIR AND SEPTIC TANK WILL BE UNDER THE GUIDANCE OF ARCHITECT E.S.E.

For Kolkata Metropolitan Development Authority

Prasad Sanyal
 Prasad Sanyal
 Consultant/Attorney

SIGNATURE OF OWNER:

I HEREBY CERTIFY THAT THE ERECTION OF BUILDING ON PREMISES NO. 140 CLT SCHEME (II - B), KOLKATA-700045 UNDER MY SUPERVISION. I ALSO CERTIFY THAT THE PROPOSED CHANGES IN LAYOUT HAS BEEN DRAWN AS PER PROVISION OF K.M.C BUILDING RULES 2008.

Subir Kumar Basu
SUBIR KUMAR BASU
 Registered Architect
 Regn. No. - CA/78/4375

SIGNATURE OF ARCHITECT:

PROJECT:-

PROPOSED ADDITION OF 4 NOS. FLOOR (HT - 100.1 M.) OVER AN EXISTING B+G+27 STOREYED (3 NOS. TOWERS) RESIDENTIAL BUILDING WITH PODIUM AND G+V & G+VI STOREYED REHABILITATION BLOCK U/S 394 OF K.M.C. ACT 1980 READ WITH 69A(D)(a). ALONG WITH UR 26(2a)&(2b) OF K.M.C. BUILDING RULE 2009 AT PREMISES NO. P-3/3 CLT SCHEME (II - B), MANIKTALA WARD - 32, BOROUGH III KOLKATA-700054.

PREVIOUS B.P. NO. 2012030110, DATED 23.03.13.
 SUBSEQUENTLY REVALUED FURTHER 5 YEARS

Architect:
Subir Kumar Basu
 CONSULTING ARCHITECTS & ENGINEERS
 4BRAD STREET KOLKATA-700019
 website : www.subirkumarbasu.com

Civil & Structural Consultants:
M.N. CONSULTANTS (Pvt) Ltd.
 MNC HOUSE
 15/16 RAJBANGA MAIN ROAD
 KOLKATA - 700 107
 Ph. No. - 913324418082/313340165700
 FAX No. 913324418083
 E-MAIL: mnconpl2009@gmail.com

Title:
TYP. FLOOR BEAM SCHEDULE
 (TOWER-01,02&03)

Drawn: A.M. Scale: AS SHOWN Date: 10.10.2023
 Job No: 2338 Drawing No: CORP-TI-850-06-04

PARTY'S COPY

Structural plan and design calculation as submitted by the structural engineer have been kept with B.P. No. 2029 of 300 53 Date 13-10-20 53 for record of the Kolkata Municipal Corporation without verification. No deviation from the submitted structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form. Necessary steps should be taken for the safety of the adjoining premises public and private properties and safety of human life during construction.

[Signature]
EXECUTIVE ENGINEER/ASST. ENGINEER
BOROUGH NO - 10

Necessary steps should be taken for the safety of the lives of the adjoining public and private properties during construction.

NO ATTACH
13/10/20 53
10/10/20 53

RESIDENTIAL BUILDING

Building Department
Borough-III, K.M.C.
Date 13.10.20 53 Sign *[Signature]*
Contents Not Verified