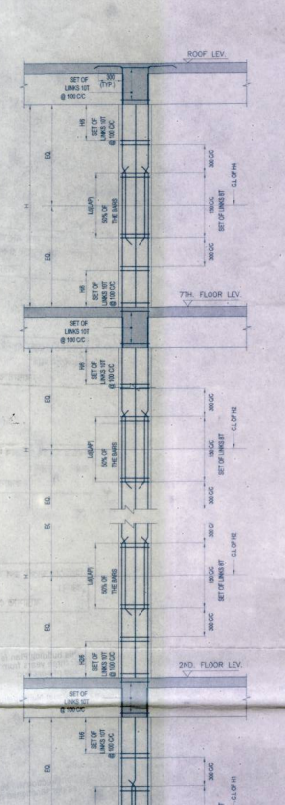
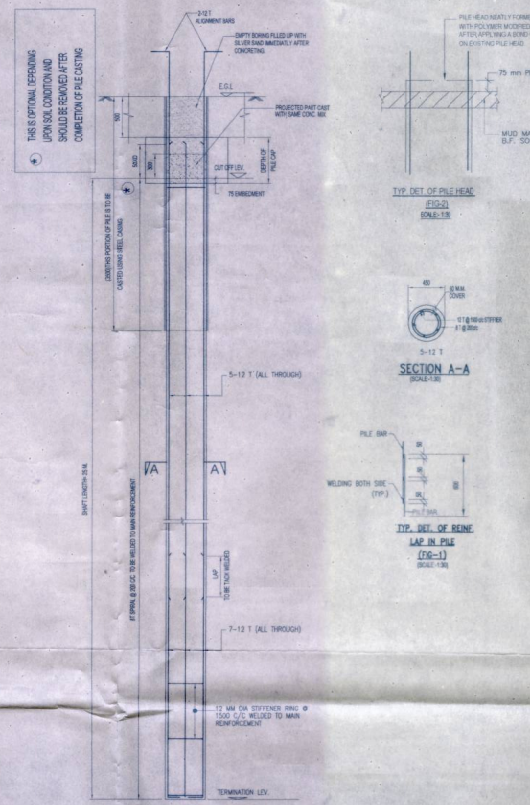
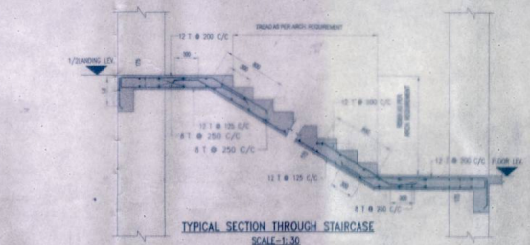
Sheet No.-S02



TYPICAL DETAIL OF COLUMN
SCALE 1:30



TYP. DET. OF PILE (BP)
PILE CAPACITY= 55 TON
SCALE-1:30

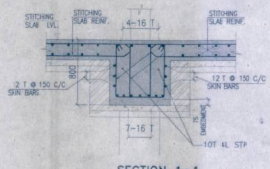


TYPICAL SECTION THROUGH STAIRCASE
SCALE-1:30

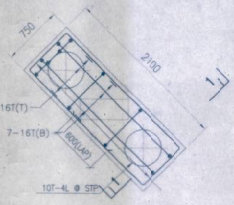
TYP. DET OF PILE HEAD
FIG-(2)
SCALE-1:8

SECTION A-A
SCALE-1:30

TYP. DET. OF REINF. LAP IN PILE
(FIG-1)
SCALE-1:30



SECTION 1-1
SCALE-1:30



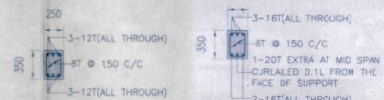
G.A. OF PILE CAP MKD.-2P
CAP DEPTH: 800
SCALE-1:30

PILE INSTALLATION (BORED CAST-IN-SITU PILE

1. ALL REINFORCEMENT IN PILE SHAFTS SHALL BE TMT BARS OF GRADE Fe 500 CONFORMING TO I.S. 1786-2008.
2. CONC MIX IN PILE SHALL BE M-25 WITH MINIMUM CEMENT CONTENT 400 Kg/CuM OF CONC. AND SLUMP OF CONC BETWEEN 150m.m.TO
3. CLEAR COVER TO REINF. PILE 50 m.m. (ROLLER TYPE COVER BLOCK TO BE USED).
4. POSITIONAL ECCENTRICITY OF ANY PILE MORE THAN 50mm FOR SINGL PILE AND 75 m.m. FOR GROUP OF PILES SHALL NOT BE PERMITTED.
5. ALL LAP JOINTS SHALL BE 50 X D AND TACK WELDED, AS SHOWN IN FIG-1.
6. THE PILE HEADS SHALL PROJECT INTO PILE CAP FOR 75 mm THE HE TO BE NEATLY FORMED TO THE REQUIRED DIA. AS PER FIG-2
7. CONTRACTOR SHALL NOTE THAT THE PILE CAPACITY, CUT OFF LEV., AT TERMINATION LEVELS SHOWN ARE TENTATIVE AND INDICATIVE ONLY. THIS MAY VARY AS PER SITE CONDITIONS.
8. DMC METHOD OF PILE BORING SHALL BE ADOPTED BY CIRCULATING BENTONITE SLURRY OF SP. GR. 1.1 TO 1.2 gm/cucm
9. FIELD CONSISTENCY TEST WITH S.P.T SHALL BE CONDUCTED TO ENSUI THE DESIRED S.P.T VALUE AT TERMINATION LEV. AS PER FOLLOWING FREQUENCY
   a). FROM 2.0M ABOVE THE TERM. LEV. FOR 1st. PILE &
   b). FROM 1.0M ABOVE THE TERM. LEV. FOR EVERY 10th. PILE THERE A

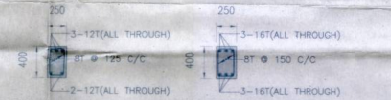
PILE DESCRIPTION & CAPACITY SHALL BE AS FOLLOWS:-

PILE MKD.	DIA	SHAFT LENGTH	VT CAPACITY	CUT OFF LEV.
P	450 m.m.	25 M	55 T.	(-) 925



DETAIL OF BEAM MKD.
TB-1(250X350)
SCALE-1:30

DETAIL OF BEAM MKD.
TB-2(250X350)
SCALE-1:30



DETAIL OF BEAM MKD.
TB-3(250X400)
SCALE-1:30

DETAIL OF BEAM MKD.
TB-4(250X400)
SCALE-1:30

PILE CAP SCHEDULE

TYPE	DEPTH	CAP TOP REINF.	CAP BOTT. REINF.
2P	800 mm	4-16T	7-16T

SCHEDULE OF COLUMN

ROOF TO 2ND FLOOR	M-30 4-20T+4-16T	M-30 6-20T+4-16T	M-30 6-20T+6-16T	M-30 4-20T+6-16T
2ND FLOOR TO FOUNDATION	M-30 8-20T	M-30 8-20T	M-30 12-20T	M-30 4-20T+8-16T
COL. SIZE	250x400	250x600	250x600	250x1050
LEVEL / COL MKD.	C1	C2	C3	C4

Sanction Serial No. 1211

Sanctioned / Approved
Chairman
Barasat Municipality

CHECKED & VERIFIED
Assistant Engineer
Barasat Municipality

Building Plan Sanctioned Meeting Date 22/6/2016

SCHEDULE OF SLABS

SLAB MKD	SLAB THK	SLAB REINF. SHORTER DIR. SUPPORT	SHORTER DIR. MID SPAN	LONGER DIR. SUPPORT	LONGER DIR. MID-SPAN	DISTRIBUTION
S1	150	8T @ 125 C/C	8T @ 175 C/C	8T @ 150 C/C	8T @ 175 C/C	8T @ 200 C/C
S2	110	8T @ 200 C/C	8T @ 200 C/C	8T @ 200 C/C	8T @ 200 C/C	8T @ 300 C/C
S3	125	8T @ 125 C/C	8T @ 125 C/C	8T @ 150 C/C	8T @ 150 C/C	8T @ 300 C/C
S4	150	10T @ 125 C/C	10T @ 150 C/C	8T @ 125 C/C	10T @ 150 C/C	10T @ 300 C/C
S5	125	8T @ 125 C/C	8T @ 125 C/C	8T @ 150 C/C	8T @ 175 C/C	8T @ 300 C/C

SCHEDULE OF TYPICAL FLOOR BEAMS

BEAM MKD.	BEAM SIZE	END SUPP. TOP	END SUPP. BOTT.	MID SPAN TOP	MID SPAN BOTT.	CANT. SUPP. TOP	CANT. SUPP. BOTT.	CANT. END TOP	CANT. END BOTT.	STIRRUPS AT SUPPORT	STIRRUPS AT MID SPAN	REMARKS
B1	250x600	3-20T	2-16T+4-12T	3-20T	2-16T+4-12T	3-20T	2-16T+4-12T	—	—	8T @ 100 C/C	8T @ 200 C/C	
B1A	250x600	3-20T	2-16T+4-12T	3-20T	2-16T+4-12T	3-20T	2-16T+4-12T	—	—	8T @ 100 C/C	8T @ 200 C/C	
B2	250x600	3-20T	3-20T	3-20T	2-20T+1-16T	3-20T	3-20T	3-20T	3-20T	8T @ 100 C/C	8T @ 200 C/C	
B2A	250x600	3-20T	3-20T	3-20T	2-20T+1-16T	3-20T	3-20T	3-20T	3-20T	8T @ 100 C/C	8T @ 200 C/C	
B4	250x600	3-20T+1-16T	2-20T+1-16T	2-20T	2-16T+2-20T	6-20T+2-16T	3-20T+2-16T	—	—	8T @ 100 C/C	8T @ 200 C/C	
B4A	250x600	3-20T	2-16T+1-20T	2-20T	2-16T+2-20T	—	—	—	—	8T @ 100 C/C	8T @ 200 C/C	
B5	250x600	3-20T	3-20T	3-20T	2-16T	3-20T	3-20T	—	—	8T @ 100 C/C	8T @ 200 C/C	
B6	250x600	3-20T	2-16T+1-20T	2-20T	2-16T+2-20T	—	—	—	—	8T @ 100 C/C	8T @ 200 C/C	
B7	250x600	3-20T	3-20T	3-20T	2-16T	3-20T	3-20T	—	—	8T @ 100 C/C	8T @ 200 C/C	
B8	250x600	3-20T+1-16T	2-16T+1-20T	3-20T	2-16T+1-20T	—	—	—	—	8T @ 100 C/C	8T @ 200 C/C	

CERTIFICATE OF STRUCTURAL ENGINEER

I DO HEREBY CERTIFY THAT THE BUILDING SITE PROPOSED FOR CONSTRUCTION AT 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN VISITED BY ME AND ALL THE DESIGNS, DRAWINGS/SPECIFY THE DRAWING NO SPECIALLY,SOIL TEST REPORT AND LOAD TEST RESULTS FOR FOUNDATION AND SUPER STRUCTURE HAVE BEEN DULY REVIEWED CONFIRMING TO STIPULATIONS OF ALL LATEST RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE AND IT I FOUND THAT EVERYTHING IS CONFLUTELY IN ORDER AND THE PROPOSED FOUNDATION AND SUPERSTRUCTURE ARE SAFE IN ALL RESPECT.

Mrigen Kr Roy

M.K.ROY
B.C.E.,Bachelor, M.Sc. TECH. (Manchester, U. K.)
A.M.C.S.T., C.ENG.M.I.(STRUCT.E.(London)
Membership No. 20136900
KMC Empanelled Structural Engineer,
Class-I, E.S.E. 119

SIGNATURE OF STRUCTURAL REVIEWER
MRIGANKA KUMAR ROY
E.S.E.-I/06

I HEREBY CERTIFY THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, IF ANY CONFORMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

Utpal Santra

UTPAL SANTRA
B.C.E., M.C.E. (STRUCT.)
M.I.E.-M/122218/4
KMC Empanelled Structural Engineer
Class-I, E.S.E. No. 1061

SIGNATURE OF STRUCTURAL ENGINEER
UTPAL SANTRA
E.S.E.-I/061

I HEREBY CERTIFY THAT THE FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING PROPOSED FOR CONSTRUCTION ON 49/39, JESSORE ROAD (EAST), WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, IF ANY CONFORMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

ALOK ROY
Enlisted Geotechnical Engineer
Rajpur-Sonarpur Municipality

SIGNATURE OF GEO-TECHNICAL ENGINEER
ALOK ROY
6A MLAN PARK KOLKATA700084
REGD. NO- 008/G.E.ENG

CERTIFICATE OF ARCHITECT :-

I DO HEREBY CERTIFY THAT PLANS,ELEVATIONS AND SECTIONS AND OTHER STRUCTURAL DETAILS OF THE PROPOSED BUILDING ON 49/39, JESSORE ROAD (EAST) WARD NO-1 UNDER JURISDICTION OF BARASAT MUNICIPALITY HAVE BEEN PREPARED IN CONFORMITY WITH ALL RELEVANT PROVISIONS UNDER THE WEST BENGAL MUNICIPAL(BUILDING) RULES,2007.THIS ALSO TO CERTIFY THAT ALL RELEVANT 'NO OBJECTION' CERTIFICATES FROM THE RESPECTIVE AUTHORITIES SUCH AS FIRE AND EMERGENCY, SERVICES DEPARTMENT, AIRPORT AUTHORITY, POLLUTION CONTROL BOARD, TELECOMMUNICATION DEPARTMENT ETC AS APPLICABLE IN THIS REGARD,ARE ALSO ENCLOSED WITH THE APPLICATION FOR SEEKING APPROVAL OF THE PLAN TO CONSTRUCT/RECONSTRUCT/ ADDITION TO/ALTERATION OF THE BUILDING ON THE SAID PLOT.

Subir Kumar Basu

SUBIR KUMAR BASU
Registered Architect
Regid. No - CA/78/4375

SIGNATURE OF ARCHITECT
SUBIR KUMAR BASU
4,BROAD STREET,KOLKATA-700019
REGD. NO. CA/78/4375

CANDICE TOWERS PVT. LTD. & OTHERS

Constituted Attorney/Authorised Signatory

SIGNATURE OF OWNER

NOTE:-
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT SHALL BE TMT BARS OF GRADE FE-500 ("FOR DIA 12 & ABOVE) & FE-415 (FOR DIA 8 & 10) CONFIRMING TO IS-1786-1985 AND ELONGATION SHALL BE MINIMUM 14.5 PERCENT.
3. CLEAR COVER FOR ALL MAIN REINF. SHALL BE
   a)PILE CAP = 50 b) COLUMN = 40
   c)FLOOR BEAM = 25 d)FLOOR SLAB = 20 e)STAIR = 20
4. GRADE OF CONCRETE M25/M30
5. GRADE OF P.C.C.
   a)UNDER FOUNDATION = 1:4:8 b)UNDER FLOOR = 1:3:6
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH DRAWING.
7. ANY DISCREPANCY IN THE STRUCTURAL DRAWINGS WITH ANY OTHER DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT.

Project:
PROPOSED (G+7) RESIDENTIAL BUILDING AT BARASAT,
49/39, JESSORE ROAD (EAST), KOLKATA-700124, DISTRICT 24 PARGANAS(NORTH), BLOCK BARASAT I, MOUZA-SITI, J.L. NO. 101, P.S. & P.O. BARASAT UNDER WARD NO. 01 OF BARASAT MUNICIPALITY, LR DAG NOS. 539, 539/1430,540,544,553 & 554. RS DAG NOS 543,545 TO 548,550,621 TO 622,632/1346,633 TO 635,635/1347,636,637,644 TO 647,649, 659 TO 661,671 & 672.

Architect:
Subir Kumar Basu
CONSULTING ARCHITECTS & ENGINEERS 4, BROAD STREET KOLKATA-700019

Civil & Structural Consultants:
M.N.CONSULTANTS (Pvt) Ltd.
MNC HOUSE
1516, RAJDANGA MAIN ROAD
KOLKATA - 700 107
Ph.no.-91.33.24418082/91.33.40165700
FAX NO. 91.33.24418083
E-MAIL:mnconpl2008@gmail.com.

Title:
SCHEDULE OF COLUMN , BEAM & SLAB. (2BHK)

Drawn	Scale	Date
A.M.	AS SHOWN	09.05.16

Design Development | Corporation Dwg | As Built Dwg
Contract Document | Construction Dwg | Tender Dwg.

Job No.	Drawing No.
1545	2B-S50-00-01