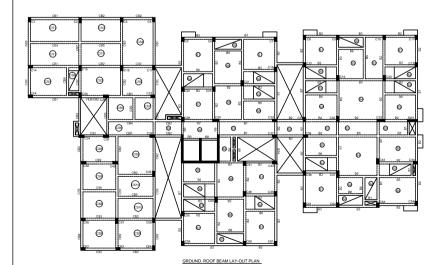
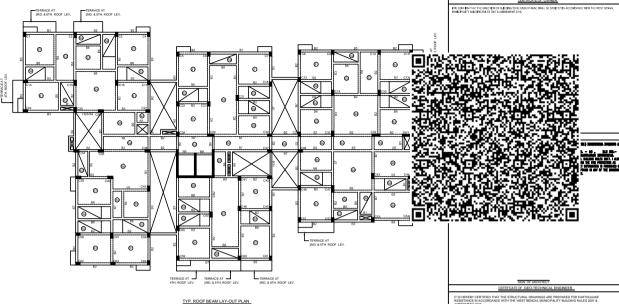


1ST. ROOF BEAM LAY-OUT PLAN





|              |                       |            | SCH                   | EDULE OF BEAM.        |            |                              |
|--------------|-----------------------|------------|-----------------------|-----------------------|------------|------------------------------|
| BEAM<br>MKD. | BEAM<br>SIZE          |            |                       |                       |            |                              |
|              |                       | TOP        | S P A N               | S U P P               | BOTT       | STIRRUPS                     |
| B1           | 2000/300/<br>2500/300 | 2-12 ALTH. | 3-12 ALTH.            | 2-12 ALTH.            | 3-12 ALTH. | 2L-8¶@ 250 C/C.              |
| B2           | 2500500               | 2-16 ALTH. | 2-16 ALTH. +2-12 EXT. | 2-16 ALTH. +2-16 EXT. | 2-16 ALTH. | 2L-8 <b>▼</b> @ 150 TO 250 C |
| B3           | 2500500               | 2-16 ALTH. | 2-16 ALTH. +2-16 EXT. | 2-16 ALTH. +2-20 EXT. | 2-16 ALTH. | 2L-8 <b>₹</b> @ 150 TO 250 C |
| B4           | 2500300               | 2-16 ALTH. | 2-16 ALTH. +2-16 EXT. | 2-16 ALTH.            | 2-16 ALTH. | 2L-8 TG 150 TO 250 C         |
| B5           | 250X450               | 2-16 ALTH. | 2-16 ALTH. +2-16 EXT. | 2-16 ALTH.            | 2-16 ALTH. | 2L-8 <b>¥</b> ® 200 C/C.     |
| 86           | 2500350               | 2-12 ALTH. | 2-12 ALTH. +2-16 EXT. | 2-12 ALTH.            | 2-12 ALTH. | 2L-8¶9 200 C/C.              |
| 87           | 2500000               | 2-20 ALTH. | 2-20 ALTH. +2-16 EXT. | 2-20 ALTH. +2-20 EXT. | 2-20 ALTH. | 2L-8 <b>▼</b> @ 100 TO 250 C |
| 88           | 250X450               | 2-20 ALTH. | 2-20 ALTH. +2-20 EXT. | 2-20 ALTH.            | 2-20 ALTH. | 2L-8 <b>T</b> @ 100 TO 200 C |
| 89           | 20000500              | 3-16 ALTH. | 2-16 ALTH.            | 3-16 ALTH.            | 2-16 ALTH. | 2L-8¶9 200 C/C.              |
| CB1          | 2500500               | 2-20 ALTH. | 2-20 ALTH. +2-16 EXT. | 2-20 ALTH. +2-20 EXT. | 2-20 ALTH. | 2L-8 <b>¥</b> @ 100 TO 200 C |
| CB2          | 2500500               | 2-16 ALTH. | 2-16 ALTH. +2-12 EXT. | 2-16 ALTH. +2-16 EXT. | 2-16 ALTH. | 2L-8 <b>▼</b> @ 100 TO 200 C |
| CB3          | 2500300               | 2-20 ALTH. | 2-20 ALTH. +2-20 EXT. | 2-20 ALTH. +3-20 EXT. | 2-20 ALTH. | 2L-8 <b>¥</b> @ 100 TO 200 C |
| CB4          | 250X400               | 2-16 ALTH. | 2-16 ALTH. +2-16 EXT. | 2-16 ALTH.            | 2-16 ALTH. | 2L-8 <b>Y</b> 9 200 C/C.     |
| CB5          | 250X400               | 2-16 ALTH. | 2-16 ALTH. +2-12 EXT. | 2-16 ALTH.            | 2-16 ALTH. | 2L-8 <b>¥</b> ® 200 C/C.     |
| CB6          | 250X400               | 2-12 ALTH. | 2-12 ALTH. +2-16 EXT. | 2-12 ALTH.            | 2-12 ALTH. | 2L-8 <b>₹</b> @ 200 C/C.     |
| CB7          | 2500500               | 3-20 ALTH. | 3-20 ALTH. +2-16 EXT. | 3-20 ALTH. +2-20 EXT. | 3-20 ALTH. | 2L-8 <b>¥</b> @ 100 TO 200 C |
| CB8          | 200X300/<br>250X300   | 2-20 ALTH. | 4-20 ALTH.            | 2-20 ALTH.            | 4-20 ALTH. | 2L-8 <b>%</b> @ 100 C/C.     |
| SB1          | 2500000               | 2-20 ALTH. | 2-20 ALTH. +2-16 EXT. | 2-20 ALTH. +2-20 EXT. | 2-20 ALTH. | 2L-8 <b>♥</b> ® 100 TO 200 C |
| SB2          | 250X500<br>250X500    | 2-16 ALTH. | 2-16 ALTH. +2-20 EXT. | 2-16 ALTH.            | 2-16 ALTH. | 2L-8¶9 200 C/C.              |
| SB3          | 2500000               | 3-20 ALTH. | 3-20 ALTH. +2-20 EXT. | 3-20 ALTH. +3-20 EXT. | 3-20 ALTH. | 2L-8 <b>₹</b> @ 100 TO 200 C |
| HLB          | 2500500               | 2-20 ALTH. | 2-20 ALTH. +2-16 EXT. | 2-20 ALTH. +2-20 EXT. | 2-20 ALTH. | 2L-8 TR 100 TO 200 C         |

TYP. ROOF BEAM LAY-OUT PLAN

|      |           | s                              | COMPRESS                     | ON STEEL                       |                                |                   |                  |
|------|-----------|--------------------------------|------------------------------|--------------------------------|--------------------------------|-------------------|------------------|
| SLAB | SLAB      | S P A N<br>B O T T O M         |                              | S U P P O R T<br>T O P         |                                | ATTOP(ALTH)       |                  |
| MKD. | THICKNESS | LONG. DIR.                     | SHORT, DIR.                  | LONG, DIR.                     | SHORT, DIR.                    | LONG, DIR.        | SHORT, DIR.      |
| 51   | 120       | 8¥8 170 CIC ALTH.              | 8 <b>₹</b> ® 150 C/C ALTH.   | 8 <b>₹</b> ⊕ 150 G/C EXT TOP.  | 8¶® 120 C/C EXT TOP.           | _                 | _                |
| 52   | 100       | 8 <b>▼</b> 8 220 C/C ALTH.     | 8¶® 220 C/C ALTH.            | 8¶8 220 C/C ALTH.              | 8¶® 220 C/C ALTH.              | ı                 |                  |
| 53   | 110       | 8 €8 170 C/C ALTH.             | 8¶® 170 C/C ALTH.            | 8¥8 150 G/C EXT TOP.           | BER 150 CIC EXT TOP.           |                   |                  |
| 54   | 165       | 8¥8 140 C/C ALTH.              | Ø¥® 140 C/C ALTH.            | 8 <b>₹</b> 8 240 G/C EXT TOP.  | E¶® 240 C/C EXT TOP.           | 8¥8 240 C/C ALTH. | a¶® 240 C/C ALTH |
| 55   | 110       | 8 <b>¥</b> ® 200 C/C ALTH.     | 8€8 170 C/C ALTH.            | 8 <b>▼</b> 8 200 G/C EXT TOP.  | ض® 150 C/C EXT TOP.            | _                 | _                |
| 56   | 165       | 8 <b>√</b> 8 220 C/C ALTH.     | 8¶® 140 C/C ALTH.            | 8¶8 200 CIC ALTH.              | 8 <b>₹</b> 8 140 CIC ALTH.     | _                 | _                |
| 57   | 120       | 8₹8 220 C/C AS DIST.           | 8 <b>₹</b> ⊕ 150 C/C ALTH.   | 8 <b>1</b> € 220 C/C AS DIST.  | ENT® 130 C/C EXT TOP.          | _                 | -                |
| 58   | 110       | 8 <b>₹</b> 8 170 CIC ALTH.     | 8 <b>₹</b> ® 150 C/C ALTH.   | 8 <b>₹</b> 8 170 G/C EXT TOP.  | Ø€ 150 C/C EXT TOP.            | _                 |                  |
| CS1  | 120       | 8¶8 240 C/C AS DIST.           | 8 <b>∜</b> ⊕ 150 C/C ALTH.   | 8▼8 240 C/C AS DIST.           | 8¶8 120 C/C EXT TOP.           | _                 | _                |
| C52  | 120       | 8 <b>√</b> 8 200 C/C ALTH.     | 8¶® 150 C/C ALTH.            | 8 <b>▼</b> 8 170 G/C EXT TOP.  | 8₹8 120 C/C EXT TOP.           | _                 | _                |
| CS3  | 130       | 8 <b>₹</b> 8 170 C/C ALTH.     | 8¶® 130 C/C ALTH.            | 8 <b>₹</b> 8 150 G/C EXT TOP.  | ENT® 120 C/C EXT TOP.          | _                 | -                |
| CS4  | 130       | 8 <b>₹</b> 8 200 C/C ALTH.     | 8 <b>5</b> 8 130 C/C ALTH.   | 8 <b>₹</b> 8 170 G/C EXT TOP.  | Ø€8 100 C/C EXT TOP.           |                   | -                |
| CSS  | 120       | 8¶® 150 C/C ALTH.              | 8¶® 150 C/C ALTH.            | 8 <b>▼</b> 8 120 G/C EXT TOP.  | ض® 120 C/C EXT TOP.            | _                 | _                |
| CSS  | 110       | 8 <b>√</b> 8 220 C/C ALTH.     | 8 <b>€</b> ® 220 C/C ALTH.   | 8¶8 220 CIC ALTH.              | 8 <b>₹</b> ® 220 CIC ALTH.     | _                 | _                |
| CS7  | 110       | 8 <b>▼</b> 8 200 C/C ALTH.     | 8¶® 200 C/C ALTH.            | 8 <b>€</b> 8 150 G/C EXT TOP.  | ENT® 150 C/C EXT TOP.          | _                 | -                |
| CS8  | 110       | 8 <b>₹</b> 8 200 C/C ALTH.     | 8¶8 170 C/C ALTH.            | 8 <b>₹</b> 8 170 G/C EXT TOP.  | ₽₩ 150 C/C EXT TOP.            |                   | -                |
| CS9  | 165       | 8 <b>₹</b> 8 140 C/C ALTH.     | ض® 140 C/C ALTH.             | 8¶8 240 G/C EXT TOP.           | 8 <b>₹</b> 8 240 C/C EXT TOP.  | 8¥8 240 GC ALTH.  | 8¶® 240 C/C ALTH |
| C510 | 110       | 8¶8 200 C/C ALTH.              | 8 <b>17</b> 0 C/C ALTH.      | a¶e 200 G/C EXT TOP.           | ε¶® 150 C/C EXT TOP.           | _                 |                  |
| OTS1 | 125       | 8¶8 170 C/C ALTH.              | 8¶8 120 C/C ALTH.            | 8₹8 170 GC ALTH.               | 8¶® 120 CIC ALTH.              |                   |                  |
| 551  | 175       | 10 18 150 C/C ALTH.            | 10 <b>%</b> @ 150 C/C ALTH.  | 10 <b>¥</b> 8 120 G/C EXT TOP. | 10 <b>1</b> € 120 G/C EXT TOP. |                   | _                |
| 552  | 150       | 10 8 200 C/C ALTH.             | 10 <b>19</b> 8 200 G/C ALTH. | 10 <b>1/</b> 8 200 CIC ALTH.   | 10 10 200 C/C ALTH.            | _                 | _                |
| 553  | 150       | 10 <b>¥</b> ® 220 C/C AS D/ST. | 10 <b>10</b> 150 C/C ALTH.   | 10 <b>€</b> 8 220 C/C AS DIST. | 10 <b>V</b> R 120 CIC EXT TOP. |                   |                  |

NOTES :1) ALL DIVENSIONS & DIAMETERS ARE IN MILLIMETER. 1) ALL DIMENSIONS & UNIME TERS ARE, IN MILLIMETER
2) GRADE OF CONC. : ALL DESIGN MIX
1: PILE 1-M-35, WITH MINIMUM CEMENT CONTENT
6, 400 Kg/CUM OF CONC.
1: PILE CAP 1-M-30,
1: COLUMN & LFT 1- AS PER SCHEDULE. IV. REST ALL 1: AS PER RESPECTIVE FLOOR COLUMNS GRADE OF CONC. 3) P.C.C SHALL BE M20 AS PER IS: 496. 3) P.C. SHALL BE MID AS PER BS 486.
4) TOR STEEL REINFORCEMENT SHALL CONFORM TO LATEST IS: 1786 CODES WITH YIELD STRESS 500 MPs.
5) CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.

JAR COVER TO MAN REPROPRESENT SHALL BE A FOLLOWS.

9) PLE -00 MAN SEPER FROM CONTINUED TWO PARK.

9) PLE -00 MAN SEPER FROM CONTINUED TWO PARK.

9) PLE -00 -7: SM BALL DISS FROM CONTINUED TWO PARK.

9) PLE -00 -7: SM BALL DISS FROM CONTINUED TWO PARK.

1) THE ESRM: 30 MM ALL SIGHER FROM CONTINUED TAMPS BAR.

1) THE CESM: 30 MM ALL SIGHER FROM CONTINUED TAMPS BAR.

9) SUAM 3: 30 MM ALL SIGHER FROM CONTINUED TAMPS BAR.

9) SUAM 3: 30 MM ALL SIGHER FROM CONTINUED TAMPS BAR.

10) WARTER CALL SIGH MALL SIGHER FROM CONTINUED THAN BAR.

10) WARTER CALL SIGH MALL SIGHER FROM CONTINUED THAN BAR.

6) MINIMUM LAPLENCTH-FOR PLE - 40 WITH 3 SETS LAP WELDING IN BOTH SIDES FOR A LENGTH OF 80 MM, FOR REST-LAP LENGTH OF BARS TO BE PROVIDE AS 160° Ø DIA OF BAR.

7) MAXIMUM LOAD ON EACH PLE :

7) MANAMANI ADD ON RACHPIELE
PER 1992 ADD N. THE PIELES - SMIT,
AN HELT HELS BLACK PROPERTY PREPARATION
AND THE BLACK PROPERTY PROPERTY PROPERTY PROPERTY
BY ADD THOMAS DECOMPATION OF ANY HELD ADD THAT ADD THAT

IN ALT TEST OF BROTH MELECH MITHYRETHCH RETRYCHEMENT.

LORDING OFFEL.

LORDING SIGNLES OF SIGNLES HEREON ON DESTROYER

LORDING SIGNLES OF SIGNLES HEREON ON DESTROYER

LORDING SIGNLES OF SIGNLES HEREON OF SIGNLES

LORDING SIGNLES OF SIGNLES OF SIGNLES

LORDING SIGNLES OF CONCRETE BROTH SIGNLES

LORDING SIGNLES

14) EXT. TOP 8 BOTT.
FLOOR, BEAM-II) EXT. TOP TO BE PROVIDED AT LI4 FROM SUPPORT. ii) EXT. BOTT. TO BE EXTENDED US FROM SUPPORT. SLAB. () EXT. TOP TO BE PROVIDED IN ALL SUPPORTS FOR A LENGTH OF US FROM SUPPORT.

15) ALL DRAWINGS SHALL BE CORRELATED WITH ARCHTECTURAL DRAWINGS 8 ANY DECREPANCY SHALL BE REQUENT TO NOTICE OF THE ENGINEER BEFORE EXCUSTON. 16) THE DRAWING TO BE READ ALL ONGWITH SPECIFICATIONS & ALL REFERENCE DRAWING.

17) ALL THE WORKS SHALL BE DONE AS PER RELEVANT IS CODE PERTAINING TO WORK.

IS CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE BEFORE EXECUTION 19 CON ING/CHAMBO SHEPP ALL DIRECTOR AT SITE BEFORE SOLID IN OF WORK NO CLAM WILL SE ENTERTANES, CONTROLORS SHALL BE RESPONSED. TO PROPER TIME AND LEVEL OF STRUCTURE. 19 DESIGN IS BASED ON AS PER FLORID, ISSN 18-188, 19-20-11, ISSN 28-20-11, ISSN





ENGINEERS FORUM ENGINEERS FOROM 60401, H. P. DUTTA LANE (GOLF GARDEN) KOLKATA - 33. PHONE - 3586-7944 / 9874561607 email : engg\_forum2005@yahoo.co.in

ARCHITECT:

RAJ AGRAWAL & ASSOCIATES ARCHITECTS, PLANNERS AND INTERIOR DESIGNER 8B, ROYD STREET (2ND FLOOR), KOLKATA-16.

PROJECT:-

TITLE : SANCTION DRAWING (STRUCTURE) JOB NO.: 08/2024-2025 DRG. NO. : EF/S/03 DRAWN BY: KATICK SCALE: 1:100,1:25. DATE: 30.04.2025