

STRUCTURAL DETAIL/DRAWINGS PROVIDED FOR GIVEN ARCH. DRAWINGS				STRUCTURAL DETAIL/DRAWINGS PROVIDED FOR GIVEN ARCH. DRAWINGS			
S.NO.	DESCRIPTION	DRAWING NO	REMARKS	S.NO.	DESCRIPTION	DRAWING NO	REMARKS
1.	TECHNICAL NOTES	ST/TTN01/R0	✓	28.	HEAD ROOM ROOF BEAM AND SLAB LAYOUT	ST/HRB01/R0	✓
2.	ARCHITECTURAL FLOOR PLAN	ST/AP01/R0	✓	29.	HEAD ROOM ROOF BEAM DETAIL-1	ST/HRB02/R0	✓
3.	LAYOUT OF FOOTING	ST/FD01/R0	✓	30.	HEAD ROOM ROOF SLAB DETAIL	ST/HRB03/R0	✓
4.	FOOTING DETAIL	ST/FD02/R0	✓	31.	TF PERGOLA BEAM LAYOUT	ST/TFB01/R0	✓
5.	LAYOUT OF COLUMN	ST/CL01/R0	✓	32.	TF PERGOLA BEAM DETAIL	ST/TFB02/R0	✓
6.	COLUMN DETAIL	ST/CL02/R0	✓	33.	TYPICAL LINTEL AND SUNSHADE DETAIL	ST/LS01/R0	✓
7.	PEDESTAL COLUMN DETAIL	ST/PCLO1/R0	✓	34.	STAIR CASE DETAIL - 1	ST/SC01/R0	✓
8.	COLUMN LAPPING	ST/CL03/R0	✓	35.	STAIR CASE DETAIL - 2	ST/SC02/R0	✓
9.	GRADE BEAM LAYOUT	ST/GB01/R0	✓	36.	OVER HEAD TANK DETAIL	ST/OHT01/R0	✓
10.	GRADE BEAM DETAIL-1	ST/GB02/R0	✓	37.	SUMP DETAIL	ST/SC01/R0	✓
11.	GRADE BEAM DETAIL-2	ST/GB03/R0	✓	38.	SEPTIC TANK DETAIL	ST/ST01/R0	✓
12.	GRADE BEAM DETAIL-3	ST/GB04/R0	✓	39.	COMPOUND WALL DETAIL	ST/CW01/R0	✓
13.	GRADE BEAM DETAIL-4	ST/GB05/R0	✓				
14.	GRADE BEAM DETAIL-5	ST/GB06/R0	✓				
15.	BELT BEAM LAYOUT	ST/BB01/R0	✓				
16.	GROUND FLOOR ROOF BEAM LAYOUT	ST/GFB01/R0	✓				
17.	GROUND FLOOR ROOF BEAM DETAIL-1	ST/GFB02/R0	✓				
18.	GROUND FLOOR ROOF BEAM DETAIL-2	ST/GFB03/R0	✓				
19.	GROUND FLOOR ROOF BEAM DETAIL-3	ST/GFB04/R0	✓				
20.	GROUND FLOOR ROOF SLAB REINFORCEMENT	ST/GFB05/R0	✓				
21.	GROUND FLOOR ROOF SLAB DETAIL	ST/GFB06/R0	✓				
22.	FIRST FLOOR ROOF BEAM LAYOUT	ST/FFB01/R0	✓				
23.	FIRST FLOOR ROOF BEAM DETAIL-1	ST/FFB02/R0	✓				
24.	FIRST FLOOR ROOF BEAM DETAIL-2	ST/FFB03/R0	✓				
25.	FIRST FLOOR ROOF BEAM DETAIL-3	ST/FFB04/R0	✓				
26.	FIRST FLOOR ROOF SLAB REINFORCEMENT	ST/FFB05/R0	✓				
27.	FIRST FLOOR ROOF SLAB DETAIL	ST/FFB06/R0	✓				

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/TTN01/R0]

1. GRADE OF CONCRETE : **M20** (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL - **F5500D** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MISIS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS
- A) GRADE / PLINTH BEAM : 25 MM (1")
- B) FOOTING / PILE CAP BOTTOM : 50 MM (2")
- C) FOOTING / PILE CAP SIDE : 25 MM (1-1/2")
- D) FOOTING / PILE CAP TOP : 25 MM (1")
- E) WALL / COLUMN : 25 MM (1")
- F) ALL ROOF SLAB : 20 MM (3/4")
- G) R.C.C WALL (SHEAR WALL,SUMP,40 MM (1-1/2") HYPERL SIDE : 50 MM (2")
- H) COVER BOTTOM SLAB : 40 MM (1-1/2")
- J) COVER SLAB : 25 MM (1")
7. ASSUMED S.F.C OF THE SOIL IS CONSIDERED 277K/2 AT 2M DEPTH. IF ANY LOOSE SAME SHALL BE STRATA CONSULTANT BEFORE EXECUTION.
8. REINFORCEMENT SYMBOL IS AS FOLLOWS
- A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
- B) R OR O : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
9. DO NOT SCALE THE DRAWING. REFER FIGURED DIMENSIONS
10. ALL BEAMS AND ANCHORAGE LENGTH
- A) BEAM AND SLAB = 60 X DIA OF BAR
- B) COLUMN : 50 X DIA OF BAR
11. FOUNDATION IS DESIGNED FOR G + 1
- DRAWING STATUS : **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB - 2.5 KNSQ/M
2. ROOF SLAB - 1.5 KNSQ/M

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



M-STRUCTURES

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9942042922
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CLIENT:

SURVEY NO:

USE:

RESIDENT

BLOCK NO:

TITLE:

STRUCTURAL DRAWING

TITLE PAGE

DESIGNED:

ORIGINATED:

DATE:

DRAWN:

APPROVED:

SCALE:

PROJECT NO:

DRAWING NO:

ST/TP01/R0

1 : 100

1) GENERAL NOTES:

1. ALL DIMENSIONS ARE TO BE VERIFIED PROPERLY AT THE SITE.
2. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHER WISE MENTIONED.
3. ALL LEVELS ARE IN FEET UNLESS OTHER WISE MENTIONED.
4. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
5. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.

2) CONCRETE NOTES:

1. MIX FOR ALL R.C.C. WORK SHALL BE GRADED M-20 TO HAVE CUBE CRUSHING STRENGTH OF CONCRETE IS 20 NMM² AT 28 DAYS.MIX SHOULD BE VERIFIED BEFORE CASTING AND APPROVED BY THE ENGINEER. DESIGN AND CONSTRUCTION TO COMPLY WITH IS 10262:1982.

CONCRETE GRADE	MIX RATIO	MAXIMUM W/C RATIO
M 20	1 : 1.5 : 3	0.55
M 25	1 : 1 : 2	0.50

2.CONCRETE COVERS AS FOLLOWS

- 2.1 FOR GRADE / PLINTH BEAM 25 MM (1")
- 2.2 FOR FOOTING / PILE CAP BOTTOM 50 MM (2")
- 2.3 FOR COLUMN 40 MM (1-1/2")
- 2.4 FOR FOOTING / PILE CAP SIDE 75 MM (3")
- 2.5 FOR ALL ROOF BEAM 25 MM (1")
- 2.6 FOR ALL ROOF SLAB 20 MM (3/4")
- 2.7 FOR R.C.C WALL (SHEAR WALL,SUMP) 40 MM (1-1/2")
- 2.8 FOR PILE SIDE 50 MM (2")
- 2.9 FOR SUMP BOTTOM SLAB 40 MM (1-1/2")
- 2.10 FOR COVER SLAB 25 MM (1")

3. ORINARY PORTLAND CEMENT TO BE USED FOR ALL WORKS ABOVE PLINTH,UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

4. PLAIN CONCRETE USED BELOW FOOTINGS SHALL BE OF MINIMUM STRENGTH AT 28 DAYS OF 10 Nsq.mm AND MINIMUM CEMENT OF 220 kg/Cube.m.

5. NO OPENING SHALL BE MADE IN CONCRETE WORKS WITHOUT WRITTEN PERMISSION OF THE ENGINEER.

6. SIZE OF COLUMN BELOW PLINTH LEVEL IS TO BE INCREASED ON EACH SIDE OF MINIMUM 1/4" (40MM) TO INCREASE THE CLEAR CONCRETE COVER.

7. VIBRATORS MUST TO BE USED FOR ALL CONCRETING WORKS.

8. AFTER CONCRETING, CURING SHOULD BE DONE AS PER THE INSTRUCTION GIVEN IN THE CURING NOTES.

9. ADMIXTURES CANNOT BE USED WITHOUT THE APPROVAL OF STRUCTURAL CONSULTANT.

10. MINIMUM 6 NOS. OF CONCRETE CUBE SHALL BE TAKEN ON EACH DAY OF CONCRETING OR FOR EACH 100 Cube.m. OF CONCRETE OR AS DECIED BY THE ENGINEER,THE CUBES SHALL BE TESTED AT A LABORATORY APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF IS 456 - 2000.

11. ALL CONSTRUCTION JOINTS, COLUMN HEADS CONCRETE TO BE CHIPPED BEFORE NEW CONCRETING.

3) STEEL REINFORCEMENT NOTES:

1. REINFORCING BARS ARE TO IS 1786-2008.
2. Y DENOTES HIGH YIELD STRENGTH DEFORMED BARS Fe 500 GRADE CONFRIM TO IS- 1786-2008.
3. REINFORCEMENT BARS ARE TO BE COLD BENT WITH A MAXIMUM RADIUS OF 8 TIMES DIAMETER EXCEPT FOR STRIPUPS AND COLUMN JIES WHICH ARE TO BE 4 TIMES BAR DIAMETER.
4. ALL LAPS SHALL CONFORM TO IS:456-2000. THE DEVELOPMENT LENGTH TABLE AS FOLLOWS

CONCRETE GRADE	STEEL TENSION (EX: BEAM etc.)	COMPRESSION (EX: COLUMN etc.)
M 20	Fe 500 60 X d	48 X d
M 25	Fe 500 50 X d	40 X d
M 30	Fe 500 48 X d	38 X d

NOTES:
'd' INDICATES THE DIAMETER OF THE BAR

5. WHERE BARS END IN COLUMNS BEAMS & SLABS, A HOOK OF 90° OR 180° SHOULD BE PROVIDED WITH A STRAIGHT END AS FOLLOWS.

6. PROVIDE REQUIRED NUMBER OF CHAIRS FOR ALL THE SLAB AREA.

i. FOR 90° BENDING



ii. FOR 180° BENDING



4) FOUNDATION NOTES:

1. SAFE BEARING CAPACITY OF SOIL (S.B.C) IS SHOWN ON THE FOUNDATION DRAWINGS.
2. AFTER EXCAVATION,BACKFILL SHALL BE COMPACTED 96 % OF THE MAXIMUM DRY DENSITY OF THE SOIL.
3. SITE ENGINEER SHOULD CHECK THE EXISTING NEIGHBOR BUILDING SAFETY BEFORE AND DURING THE TIME OF EXCAVATION.
4. IF WE FOUND GROUND WATER DURING EXCAVATION, CONTACT STRUCTURAL CONSULTANT.
5. FOUNDATION SHOULD BE RESTED ON P.C.C.
6. ALL SUB STRUCTURES (BELOW N.G.L) IN CONTACT WITH SOIL SHALL BE PAINTED WITH TWO COATS OF BITUMEN.
- 7.GROUND IMPROVEMENT TECHNIQUES SHOULD BE DONE IF THE SOIL CONDITIONS IS VERY LOOSE BY PROVIDING LIME SAND PILING OR STONE COLUMN PILING.

5) FORM WORK NOTES:

1. STABILITY OF THE FORM WORK RESPONSIBILITY OF THE CONTRACTOR.
2. FOR FORM WORK, SHUTTERING MATERIALS, CONCRETE LEVELING, JACK SUPPORTS SHOULD BE APPROVED BY SITE ENGINEER BEFORE STEEL FABRICATION.
3. APPLY OIL OR GRECE INSIDE THE SURFACE OF THE SHUTTERING MATERIALS.

4. REMOVAL OF FORM WORKS

- 4.1 FOR COLUMNS AND ROOF BEAM SIDE, FORM WORK CAN BE REMOVED AFTER 24 HOURS FROM CASTING IF 43 GRADE CEMENT IS USED.
- 4.2 FOR COLUMNS AND ROOF BEAM SIDE, FORM WORK CAN BE REMOVED AFTER 12 HOURS FROM CASTING IF 53 GRADE CEMENT IS USED.
- 4.3 FOR ROOF BEAM BOTTOM CLEAR SPAN LESS THAN 6M, FORM WORK CAN BE REMOVED AFTER 14 DAYS FROM CASTING IF 43 GRADE CEMENT IS USED.
- 4.4 FOR ROOF BEAM BOTTOM CLEAR SPAN LESS THAN 6M, FORM WORK CAN BE REMOVED AFTER 07 DAYS FROM CASTING IF 53 GRADE CEMENT IS USED.
- 4.5 FOR ROOF BEAM BOTTOM CLEAR SPAN MORE THAN 6M, FORM WORK CAN BE REMOVED AFTER 21 DAYS FROM CASTING IF 43 GRADE CEMENT IS USED.
- 4.6 FOR ROOF BEAM BOTTOM CLEAR SPAN MORE THAN 6M, FORM WORK CAN BE REMOVED AFTER 14 DAYS FROM CASTING IF 53 GRADE CEMENT IS USED.

6) CURING WORK NOTES:

1. AFTER COMPLETION OF THE CONCRETING WORK CURING IS MUST IN 8 HOURS.
2. MINIMUM 7 DAYS AND MAXIMUM 21 DAYS CURING OF CONCRETE REQUIRED TO ATTAIN THE PROPOSED STRENGTH OF THE CONCRETE.
3. VERTICAL PORTION OF THE CONCRETE ELEMENT SHOULD BE CURED USING JUTE BAGS ETC. TO KEEP THE CONCRETE WET.

STAMP AND SIGNATURE

SIGNATURE OF SITE ENGINEER/SITE INCHARGE.
(NOTE: THE NOTES COMPILED SORT FOLLO IN ALL SITE STRUCTURAL WORKS IF YOU WANT ANY ELUCATION CONSULT WITH SITE CONSULTANT OFFICE. IF YOU WANT TO KNOW MORE ABOUT THE RESPONSIBILITY IN A STRUCTURAL CONSULTANT'S)

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



CLIENT:

SHEET NO.:

USE:

BLOCK NO.:

RESIDENT G + ONE

LOCATION:

TITLE:

STRUCTURAL DRAWING
TECHNICAL NOTES

DESIGNED: CHECKED: DATE:

DRAWN: APPROVED: SCALE: 1 : 100

PROJECT NO. DRAWING NO. ST/TN01/R0

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/01/RO]

1. GRADE OF CONCRETE :
M20 - (DESIGN MIX) (AS PER IS 456-2000)
M20 - (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL - **Fe500D** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING
NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED
AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE
MIX IS CONTRACTOR OR CLIENT OR SITE PERSON
RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS
FOLLOW:-
A) BEAM / PLINTH / BEAM : 25 MM (1")
B) FOOTING / PILE CAP BOTTOM : 50 MM (2")
C) COLUMN : 40 MM (1-1/2")
D) FOOTING / PILE CAP SIDE : 75 MM (3")
7. ASSUMED S.B.C OF THE SOIL IS CONSIDERED 22T/M2
FOUND THE INFORMED TO THE STRUCTURAL
CONSULTANT BEFORE EXECUTION.
8. REINFORCEMENT SYMBOL IS :
A) ANY OR HIGH YIELD STRENGTH BARS OF
MINIMUM 16MM Ø
B) R OR Q MILD STEEL OF MINIMUM YIELD
STRENGTH IS 250 N/MM²
9. DO NOT SCALE THE DRAWING. REFER FIGURED
DIMENSIONS.
10. LAPPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 80 X Ø OF BAR
B) COLUMN = 16 Ø OF BAR
11. FOUNDATIONS DESIGNED FOR G + 1.4

DRAWING STATUS : **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB - 2.5 N/MSqM
2. ROOF SLAB - 1.5 N/MSqM

CONCRETE MIX

1 : 1.5 : 3

NOTES : THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



M-STRUCTURES
STRUCTURAL CONSULTANT
MSTRUCTURE@GMAIL.COM
MOBILE NO. : 9942042522
FOR QUERIES : 9945700173

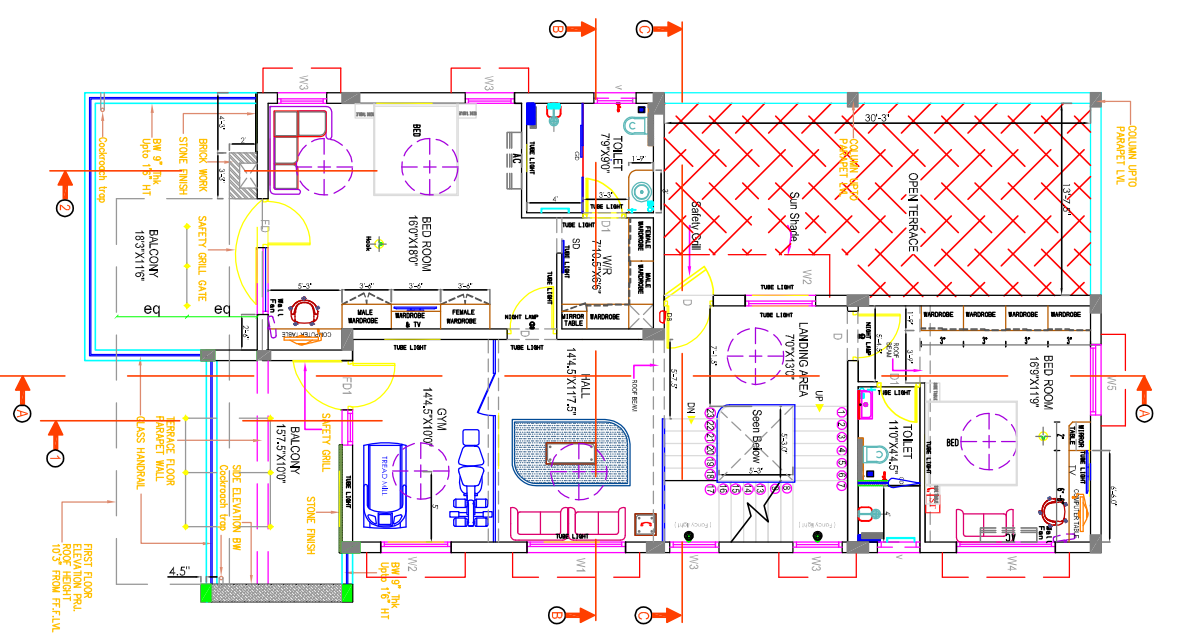
CLIENT : _____ SURVEY NO. : _____

USE : _____ NO. OF FLOORS : _____ BLOCK NO. : _____

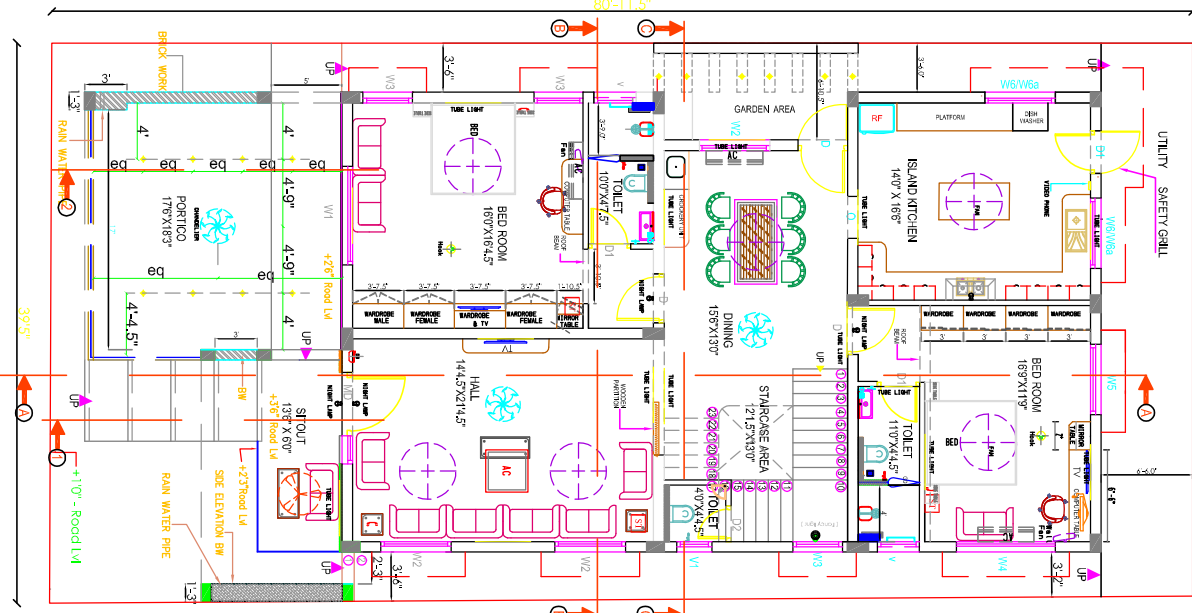
TITLE : **STRUCTURAL DRAWING**
ARCHITECTURAL FLOOR PLAN

DESIGNED : _____ CHECKED : _____ DATE : _____
DRAWN : _____ APPROVED : _____ SCALE : **1 : 100**

PROJECT NO. : _____ DRAWING NO. : **ST/AP01/RO**



FIRST FLOOR PLAN



GROUND FLOOR PLAN

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/100/100]

1. GRADE OF CONCRETE: **M20** (DESIGN MIX) (AS PER IS 456:2000)
2. GRADE OF STEEL: **F6500D** (AS PER IS 1786:2008)
3. ASSUMED S.A.C. OF THE SOIL IS CONSIDERED 22T/M² AT 2M DEPTH. IF ANY LOOSE SAME SHALL BE STAYATA FOUND THE INFORMED TO THE STRUCTURAL CONSULTANT BEFORE EXECUTION.
4. SOIL IMPROVEMENT SHOULD BE DONE BELOW P.C.C. LAYER BY STAYATA OR BY OTHER MEANS.
5. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
- A) GRADE / PLINTH BEAM : 25 MM (1")
- B) COLUMN / PILE CAP / BOTTOM : 40 MM (1-1/2")
- C) COLUMN / PILE CAP / SIDE : 75 MM (3")
- D) FOOTING / PILE CAP / SIDE : 75 MM (3")
6. REINFORCEMENT SYMBOL IS:-
- A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
- B) R OR Q : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
7. FOUNDATIONS DESIGNED FOR G + 1
- DRAWING STATUS: **GOOD FOR CONSTRUCTION**

NOTES

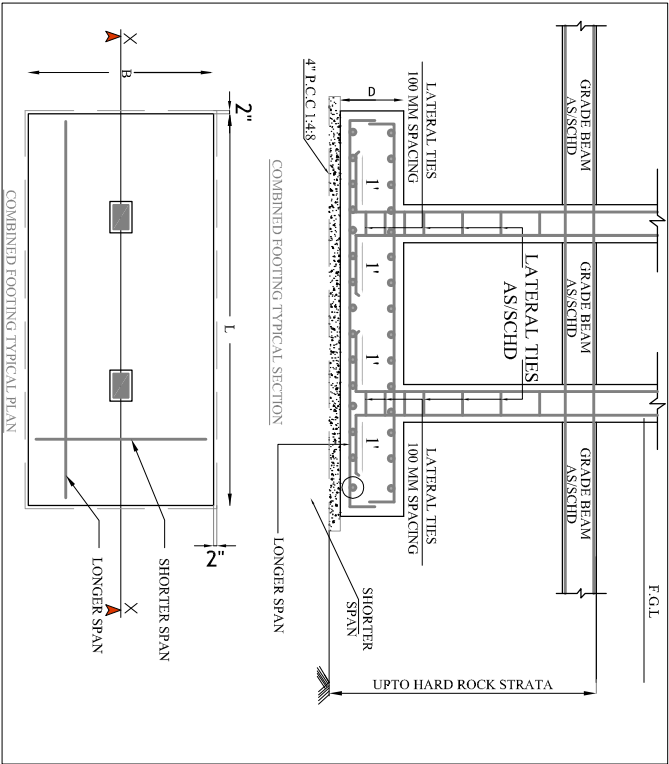
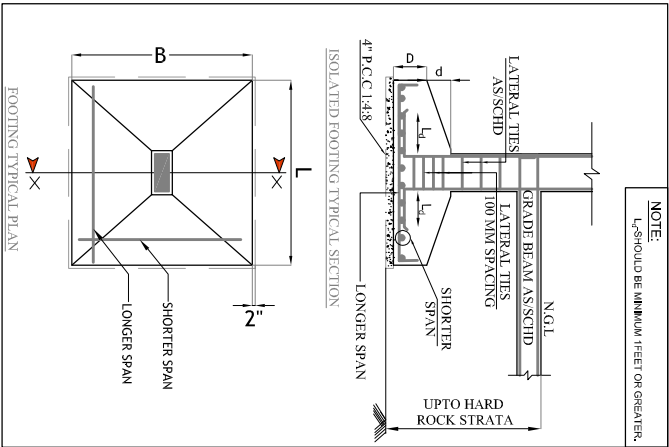
GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/100/100]

1. THE BUILDING IS NOT DESIGNED FOR EARTHQUAKE LOAD.
2. ANY DISCREPANCY FOUND IN THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONSULTANT ENGINEER. NO WORK SHALL BE STARTED WITHOUT THE WRITTEN PERMISSION OF THE CONSULTANT ENGINEER.
3. DO NOT CAST ANY S.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
4. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
5. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
- A) GRADE / PLINTH BEAM : 25 MM (1")
- B) COLUMN / PILE CAP / BOTTOM : 40 MM (1-1/2")
- C) COLUMN / PILE CAP / SIDE : 75 MM (3")
- D) FOOTING / PILE CAP / SIDE : 75 MM (3")
6. REINFORCEMENT SYMBOL IS:-
- A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
- B) R OR Q : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
7. FOUNDATIONS DESIGNED FOR G + 1
- DRAWING STATUS: **GOOD FOR CONSTRUCTION**

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITEDRAWING STATUS: **GOOD FOR CONSTRUCTION**DESIGN LOADS:
1. FLOOR SLAB - 2.5 N/MSQ
2. ROOF SLAB - 1.5 N/MSQCLIENT: **M-STRUCTURES**
STRUCTURAL CONSULTANT
MOBILE : 9459445808
FOR QUERIES: 9445700175CLIENT: **M-STRUCTURES**
STRUCTURAL CONSULTANT
MOBILE : 9459445808
FOR QUERIES: 9445700175CLIENT: **M-STRUCTURES**
STRUCTURAL CONSULTANT
MOBILE : 9459445808
FOR QUERIES: 9445700175CLIENT: **M-STRUCTURES**
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STRUCTURAL CONSULTANT
MOBILE : 9459445808
FOR QUERIES: 9445700175CLIENT: **M-STRUCTURES**
STRUCTURAL CONSULTANT
MOBILE : 9459445808
FOR QUERIES: 9445700175



SCHEDULE OF FOOTINGS

TYPE	GRID	NO OF FOOTING	R.C.C. SIZE				FOOTING REINFORCEMENT		REMARKS
			L	B	D	d	SHORT SPAN	LONG SPAN	
F1	A1	1	3'0"	3'0"	12"	9"	Y10 @ 5" c/c	Y10 @ 5" c/c	
F2	C4,G1	2	3'9"	3'6"	12"	9"	Y10 @ 5" c/c	Y10 @ 5" c/c	
F3	B6,G5	2	4'0"	3'6"	12"	9"	Y10 @ 5" c/c	Y10 @ 5" c/c	
F4	C1	1	4'3"	4'0"	12"	9"	Y10 @ 5" c/c	Y10 @ 5" c/c	
F5	B4,D1,F1	3	4'6"	4'3"	12"	9"	Y10 @ 5" c/c	Y10 @ 5" c/c	
F6	G2	1	4'9"	4'6"	12"	9"	Y10 @ 5" c/c	Y10 @ 5" c/c	
F7	D3,E1,E5	3	5'9"	5'3"	15"	12"	Y12 @ 5" c/c	Y12 @ 5" c/c	
F8	F5	1	5'9"	5'6"	15"	12"	Y12 @ 5" c/c	Y12 @ 5" c/c	
F9	F2	1	6'6"	6'3"	18"	15"	Y12 @ 5" c/c	Y12 @ 5" c/c	
F10	E3	1	6'9"	6'6"	18"	15"	Y12 @ 5" c/c	Y12 @ 5" c/c	
CF1	(D5,D6)	1	5'9"	5'6"	15"	-	Y12 @ 5" c/c	Y12 @ 5" c/c	

NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST1N01/RO)

- GRADE OF CONCRETE:
M20. (DESIGN MIX) (AS PER IS 456-2000)
- GRADE OF STEEL - **Fe500D** (AS PER IS 1786-2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
A) GRADE / PLINTH BEAM - 25 MM (1")
B) COLUMN - 30 MM (1-1/4")
C) COLUMN / PILE CAP SIDE - 75 MM (3")
D) FOOTING / PILE CAP SIDE - 75 MM (3")
7. ASSUMED S.B.C. OF THE SOIL IS CONSIDERED 27T/M2 FOUND THE INFORMED TO THE STRUCTURAL CONSULTANT BEFORE EXECUTION.
8. REINFORCEMENT SYMBOL IS:-
A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
B) COLUMN - 30 MM (1-1/4")
C) COLUMN / PILE CAP SIDE - 75 MM (3")
D) FOOTING / PILE CAP SIDE - 75 MM (3")
9. DO NOT SCALE THE DRAWING. REFER REQUIRED DIMENSIONS
10. LAPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 80 X DIA OF BAR
B) COLUMN = 50 X DIA OF BAR
11. FOUNDATION IS DESIGNED FOR G + 1.

DESIGN LOADS:

- FLOOR SLAB - 2.5 INS/M²
- ROOF SLAB - 1.5 INS/M²

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

M-STRUCTURES
STRUCTURAL CONSULTANT
MOBILE: 9342045222
FOR QUERIES: 9342045222

CLIENT: _____ SURVEY NO.: _____
BLOCK NO.: _____
USE: _____ NO. OF FLOORS: _____ LOCATION: _____
RESIDENT: _____
TITLE: **STRUCTURAL DRAWING**
FOUNDATION DETAIL

DESIGNED: _____ CHECKED: _____ DATE: _____
DRAWN: _____ APPROVED: _____ SCALE: **1 : 75**
PROJECT NO.: _____ DRAWING NO.: **ST / FD02 / R0**

LAPPING NOTES

MINIMUM LAP LENGTH FOR COLUMN (50D) SHOULD BE AS FOLLOWS:

FOR M20 GRADE OF CONCRETE & F6500 GRADE OF STEEL		
DIAMETER OF BAR	LAP LENGTH	
12 mm	2'-0"	
16 mm	2'-6"	
20 mm	3'-3"	
25 mm	4'-0"	

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [STJN01/RO]

- GRADE OF CONCRETE : **M20**. (DESIGN MIX) (AS PER IS 456:2000)
- GRADE OF STEEL - **F6500D** (AS PER IS 1786:2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT TO THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
- DESIGN OF PROPPING, SHUTTERING AND CONCRETE RESPONSIBILITY.
- SOIL COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - GRADE / PLINTH BEAM : 25 MM (1")
 - COLUMN : 40 MM (1-1/2")
 - FOOTING / PILE CAP SIDE : 75 MM (3")
- REINFORCEMENT SYMBOL IS :-
 - REINFORCED STRUTTED BARS OF MINIMUM YIELD STRENGTH (250 N/MM²)
 - R OR Q WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²
- DO NOT SCALE THE DRAWING,REFER FIGURED DIMENSIONS
- SIZE OF COLUMN BELOW PLINTH LEVEL IS TO BE INCREASED ON EACH SIDE OF MINIMUM 1/4" (6MM) TO INCREASE THE CLEAR CONCRETE COVER.
- TO READ AND EXECUTE THIS STRUCTURAL DRAWING ALONG WITH ARCHITECTURAL DRAWING.
- LAPPING OR ANCHORAGE LENGTH
 - BEAM AND SLAB = 80 X DIA OF BAR
 - COLUMN = 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

- FLOOR SLAB - 25 kN/SQM
- ROOF SLAB - 15 kN/SQM

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

CLIENT: _____

USE: _____

RESIDENT _____

TITLE: _____

STRUCTURAL DRAWING
LAYOUT OF COLUMN

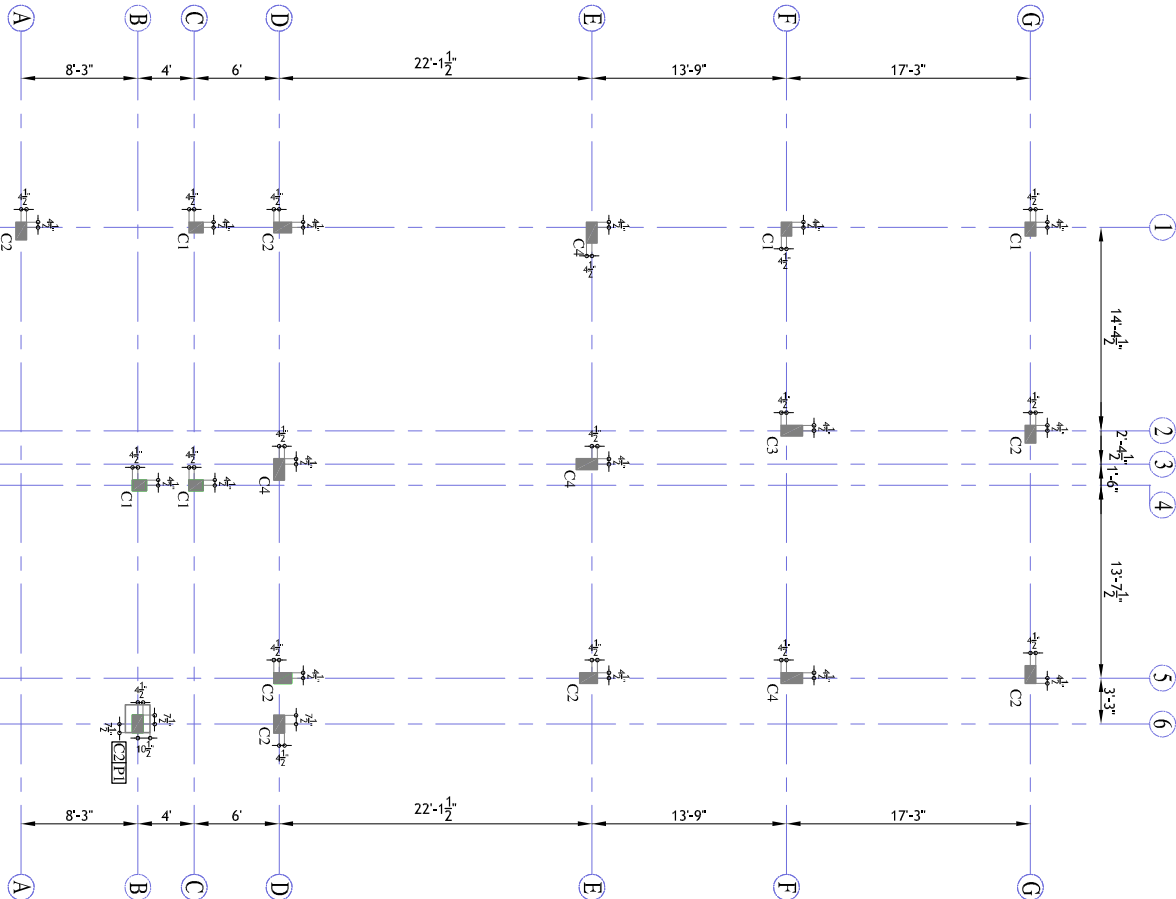
DESIGNED: _____

DRAWN: _____

PROJECT NO: _____

DIAGONAL LENGTHS	
GRID	LENGTH
A1-G5	78'-2"
B6-G1	72'-2.75"

LAYOUT OF COLUMN



NOTE :
COLUMN LAPPING LENGTH, Ld = (48xD) FOR M20
GRADE OF CONCRETE & F6500 GRADE OF STEEL

LAPPING NOTES

MINIMUM LAP LENGTH FOR COLUMN (50D) SHOULD BE AS FOLLOWS:

FOR M20 CONCRETE & 475 GRADE OF STEEL	
DIAMETER OF BAR	LAP LENGTH
12 mm	2' 0"
16 mm	2' 6"
20 mm	3' 3"
25 mm	4' 0"

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/0107/RO]

1. GRADE OF CONCRETE : **M20**. (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL : **F6500D** (AS PER IS 1786-2006)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTLING AND CONCRETE RESPONSIBILITY.
6. CL EAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
- A) GRADE / PLINTH BEAM : 25 MM (1")
- B) COLUMN : 40 MM (1-1/2")
- C) FOOTING / PILE CAP SIDE : 75 MM (3")
7. REINFORCEMENT SYMBOL IS : -
- A) 1" OR 0" HIGH YIELD STRENGTH BARS OF MINIMUM 1% OR 0. MINID STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²
8. DO NOT SCALE THE DRAWING. REFER FIGURED DIMENSIONS
9. SIZE OF COLUMN BELOW PLINTH LEVEL IS TO BE INCREASED ON EACH SIDE OF MINIMUM 1/4" (40MM) TO INCREASE THE CLEAR CONCRETE COVER.
10. READ AND EXECUTE THIS STRUCTURAL DRAWING ALONG WITH ARCHITECTURAL DRAWING.
11. LAPPING OR ANCHORAGE LENGTH
- A) BEAM AND SLAB = 60 X DIA OF BAR
- B) COLUMN = 80 X DIA OF BAR

DRAWING STATUS : **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB : 2.25 KNS/M²
2. ROOF SLAB : 1.15 KNS/M²

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



M-STRUCTURES
STRUCTURAL CONSULTANT
MESTRUTR@GMAIL.COM
MOBILE : 9245022522
FOR QUERIES: 9245160172

CLIENT:

SURVEY NO:

BLOCK NO:

USE: NO. OF FLOORS: LOCATION:
RESIDENT G + ONE

TITLE: **STRUCTURAL DRAWING**
COLUMN DETAIL.

DESIGNED: CHECKED: DATE:

DRAWN: APPROVED: SCALE: **1 : 25**

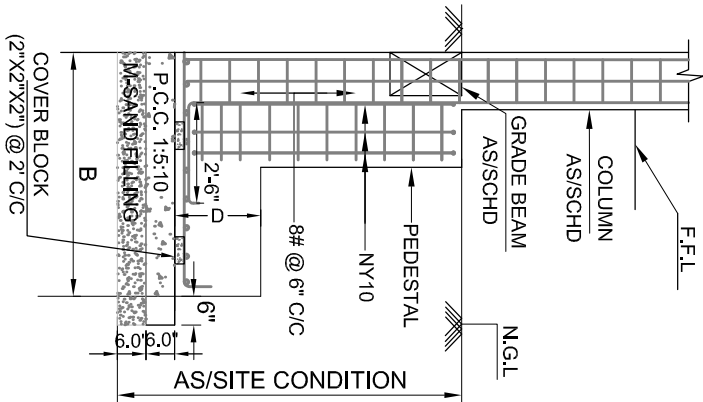
PROJECT NO: DRAWING NO:

ST/CL02/RO

TYPE	COLUMN DETAIL
C1	<p>SIZE: 9" X 12" STEEL: 4Y16(CORNER) +2Y12</p> <p>LINKS: Y8@6"C/C (2 LINKS)</p>
C2	<p>SIZE: 9" X 15" STEEL: 4Y16(CORNER) +2Y12</p> <p>LINKS: Y8@6"C/C (2 LINKS)</p>
C3	<p>SIZE: 9" X 18" STEEL: 4Y16(CORNER) +4Y12</p> <p>LINKS: Y8@6"C/C (2 LINKS)</p>
C4	<p>SIZE: 9" X 18" STEEL: 8Y16</p> <p>LINKS: Y8@6"C/C (2 LINKS)</p>

SCHEDULE OF COLUMNS

TYPE	NO OF COLUMNS	GRIDS	SIZE	REINFORCEMENT	STIRRUPS	NO OF LINKS
C1	5	B4,C1,C4,F1,G1	9" X 12"	4Y16(CORNER)+2Y12	Y8 @ 6" c/c	2 LINKS
C2	8	A1,B6,D1,D5,D6,E5,G2,G5	9" X 15"	4Y16(CORNER)+2Y12	Y8 @ 6" c/c	2 LINKS
C3	1	F2	9" X 18"	4Y16(CORNER)+4Y12	Y8 @ 6" c/c	2 LINKS
C4	4	D3,E3,F5,E1	9" X 18"	8Y16	Y8 @ 6" c/c	2 LINKS



TYPICAL PEDESTAL COLUMN SECTION

TYPE	GRID	DETAIL -1	DETAIL -2	COLUMN LINKS	PEDESTAL COLUMN LINKS
C2 P1	B7				

NOTE :

C - COLUMN
P - PEDESTAL COLUMN
PROVIDE PEDESTAL COLUMN
UPTO GRADE BEAM LEVEL.

NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST/NO/RO)

1. GRADE OF CONCRETE : **M20** (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL : **Fe500D** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
4. DO NOT CARRY RACE WORK UNLESS IT IS CHECKED AND APPROVED BY THE CONSULTANT ENGINEER.
5. FREEDOM OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - A) GRADE / PLINTH BEAM : 25 MM (1")
 - B) COLUMN : 30 MM (1-1/8")
 - C) FOOTING / PILE CAP SIDE : 75 MM (3")
7. REINFORCEMENT SYMBOLS :-
 - A) REINFORCEMENT SYMBOLS :- LENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 - B) R OR O : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
8. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS.
9. SIZE OF COLUMN BELOW PLINTH LEVEL IS TO BE INCREASED ON EACH SIDE OF MINIMUM 1/2" (40MM) TO INCREASE THE CLEAR CONCRETE COVER.
10. READ AND EXECUTE THIS STRUCTURAL DRAWING ALONG WITH ARCHITECTURAL DRAWINGS.
11. LAPPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB = 60 X DIA OF BAR
 - B) COLUMN = 60 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

- DESIGN LOADS:**
1. FLOOR SLAB - 2.5 KNSQ/M
 2. ROOF SLAB - 1.5 KNSQ/M

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE

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9345700173
FOR QUERIES: 9345700173

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USE:	BLOCK NO:
RESIDENT	LOCATION:
G + ONE	

STRUCTURAL DRAWING PEDESTAL COLUMN TYPICAL DETAIL-1

DRAWN:	CHECKED:	DATE:
APPROVED:	SCALE:	
PROJECT NO:	DRAWING NO:	
ST/PCLO1/RO	1 : 25	

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/7N01/RO)

1.GRADE OF CONCRETE :
M20 - (DESIGN MIX) (AS PER IS 456:2000)

2.GRADE OF STEEL : **F5500D** (AS PER IS 1786:2008)
3.ANY DISCREPANCY FOUND IN THESE DRAWING
NOTICE BEING GIVEN TO THE CONSULTANT ENGINEER
4.DO NOT CAST ANY R.C.C. WORKY UNLESS IT IS CHECKED
AND CONFIRMED BY SITE ENGINEER
5.DESIGN OF PROPPING, SHUTTING AND CONCRETE
RESPONSIBILITY,
6.CLEAR COVER FOR REINFORCEMENT SHALL BE AS
FOLLOWS:-
A) GRADE / PLINTH BEAM : 25 MM (1")
B) COLUMN : 40 MM (1-1/2")
C) FOOTING / PILE CAP SIDE : 35 MM (1")

7. REINFORCEMENT SYMBOL IS :
MINIMUM YIELD STRENGTH IS 500 NMM²
B) R OR O MILD STEEL OF MINIMUM YIELD
STRENGTH IS 250 NMM²
8. DO NOT SCALE THE DRAWING,REFER FIGURED
DIMENSIONS

9.SIZE OF COLUMN BELOW PLINTH LEVEL IS TO BE
INCREASED ON EACH SIDE OF MINIMUM 1/4" (4MM) TO
INCREASE THE CLEAR CONCRETE COVER.
10.READ AND EXECUTE THIS STRUCTURAL DRAWING
ALONG WITH ARCHITECTURAL DRAWING.

11. LAPPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 60 X DIA OF BAR
B) COLUMN
= 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

1. FLOOR SLAB : 23 N/MSQ.M
2. ROOF SLAB : 13 N/MSQ.M

NOTES : THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



CLIENT:
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MOBILE: 9845042582
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SURVEY NO. BLOCK NO.

USE: NO. OF FLOORS: LOCATION:

RESIDENT G + ONE

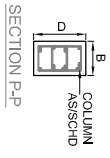
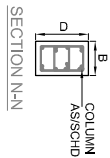
TITLE: STRUCTURAL DRAWING
TYPICAL COLUMN LAPPING

DESIGNED: CHECKED: DATE:

DRAWN: APPROVED: SCALE: 1 : 100

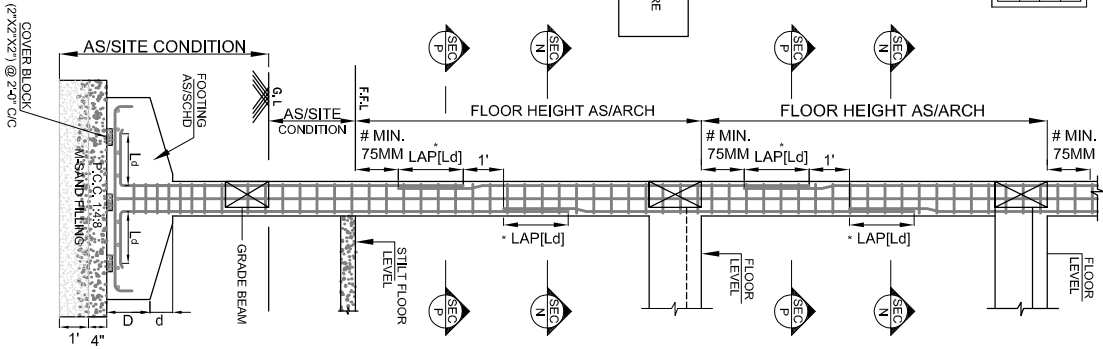
PROJECT NO. DRAWING NO. ST/CL03 /R0

LEGEND	
D	COLUMN DEPTH
B	COLUMN BREADTH
Ld	LAPPING LENGTH



NOTE:
LAPPING SHOULD NOT BE DONE MORE
THAN 50% AT SAME LOCATION

NOTE:
- LAPPING SHOULD NOT BE DONE
AT THIS ZONE
* - MINIMUM 1'-0" GAP BETWEEN LAPPING OF
ROD FOR ADJACENT ROD
- LAPPING OF ROD, Ld = (48d) FOR M20 GRADE
OF CONCRETE & F5500 GRADE OF STEEL.



TYPICAL COLUMN LAPPING

LEGEND	
D	FOOTING DEPTH
d	FOOTING SLOPE DEPTH
Ld	DEVELOPMENT LENGTH

LAPPING NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

DIAMETER OF BAR	LAP LENGTH
8 mm	1'-6"
10 mm	2'-0"
12 mm	2'-6"
16 mm	3'-3"
20 mm	4'-0"
25 mm	5'-0"

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/MD/RO)

1. GRADE OF CONCRETE:

M20. (DESIGN MIX). (AS PER IS 456:2000)

2. GRADE OF STEEL: Fe500D (AS PER IS 1786:2008)

3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE REPORTED TO CONSULTANT ENGINEER AND NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.

4. DESIGN OF PROPPING, SHUTTLING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.

5. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

- A) GRADE / PLINTH BEAM : 25 MM (1")
- B) COLUMN : 40 MM (1-1/2")
- C) ALL ROOF BEAM : 25 MM (1")
- D) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS :-

MINIMUM YIELD STRENGTH IS 500 N/MM².
MINIMUM TENSILE STRENGTH IS 550 N/MM².
DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

9. LAPPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 60 X DIA OF BAR
B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

- 1. FLOOR SLAB = 7.25 KNS/M²
- 2. ROOF SLAB = 1.25 KNS/M²

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



M-STRUCTURES
STRUCTURAL CONSULTANT
MSTRUC@GMAIL.COM
9942042522
9945700173

CLIENT:

USE:

RESIDENT

G + ONE

NO. OF FLOORS:

LOCATION:

BLOCK NO.:

TITLE:

STRUCTURAL DRAWING

GRADE BEAM LAYOUT

DESIGNED:

CHECKED:

DATE:

DRAWN:

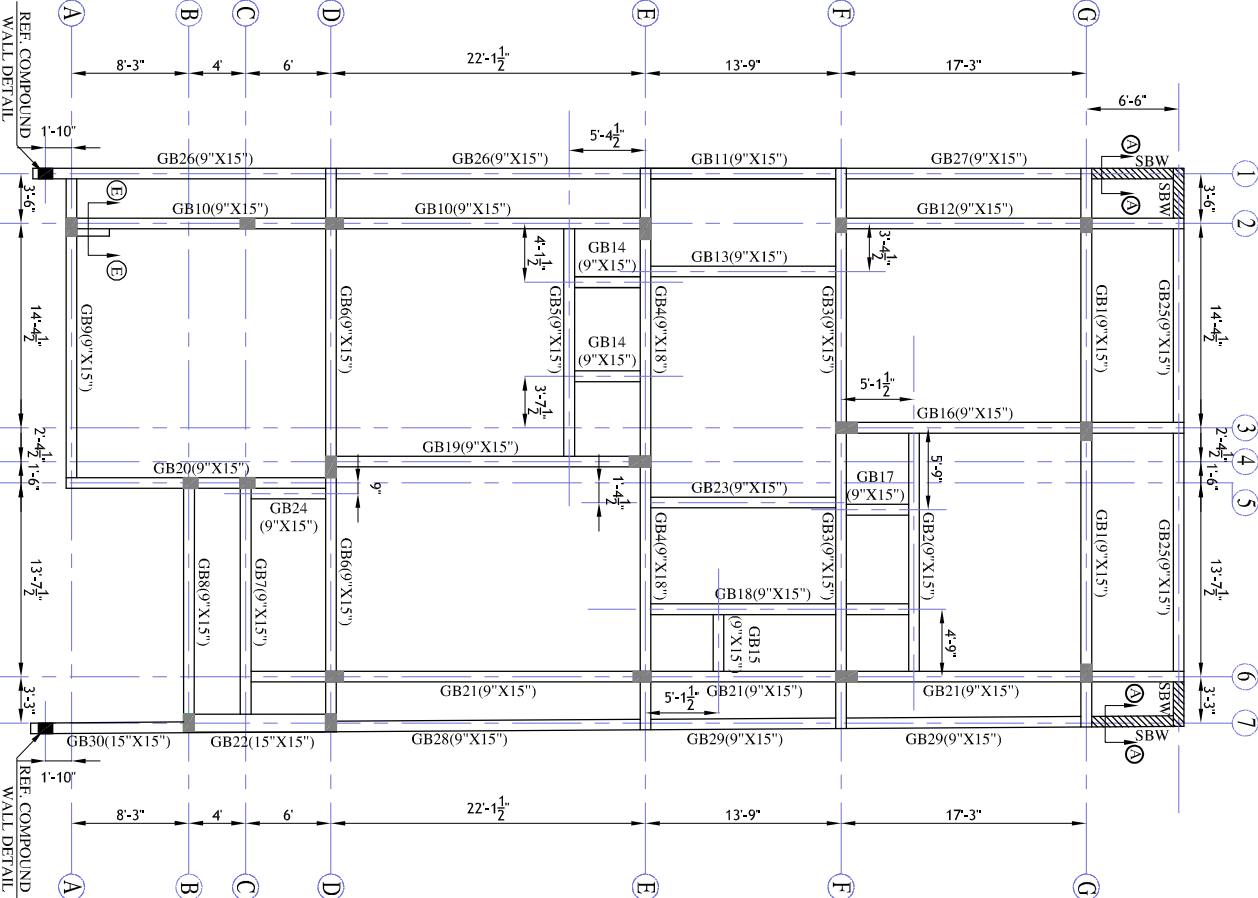
APPROVED:

SCALE:

PROJECT NO.:

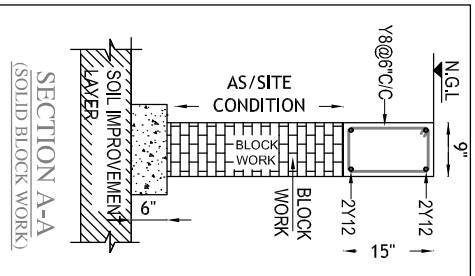
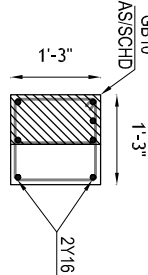
DRAWING NO.:

ST/GB01/RO

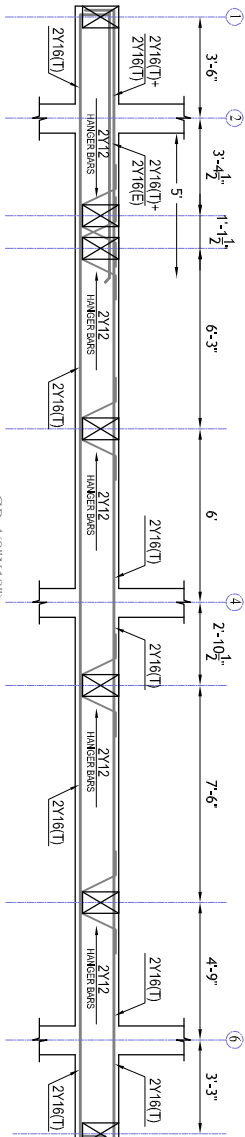


GRADE BEAM LAYOUT

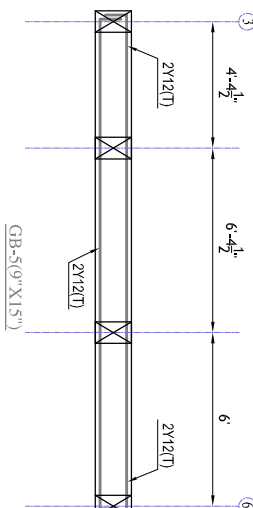
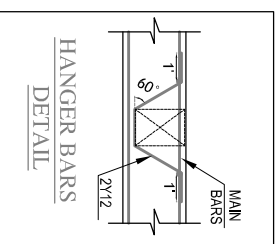
SECTION E-E



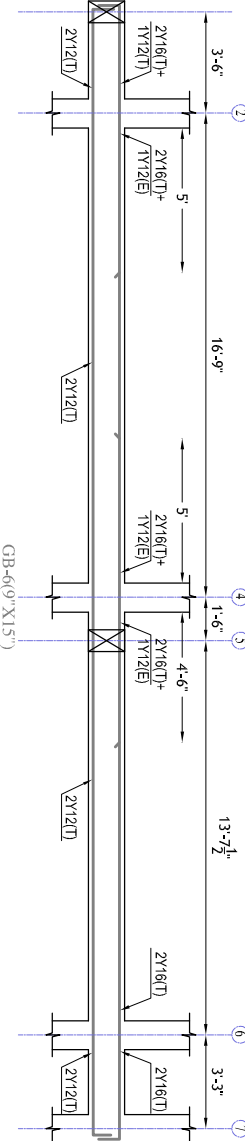
SECTION A-A
(SOLID BLOCK WORK)



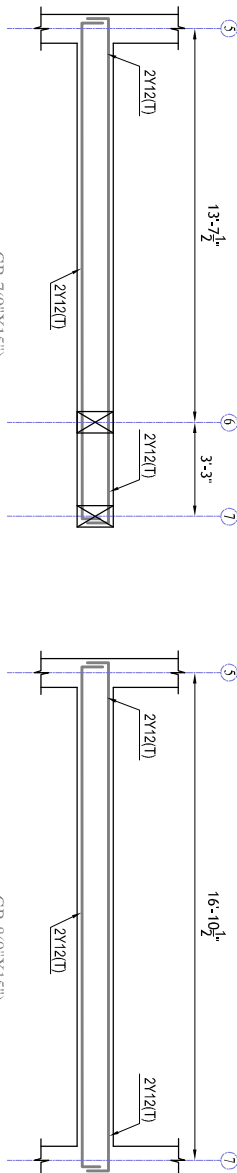
GB-4(9' X 18'')



GB-5(9' X 15'')

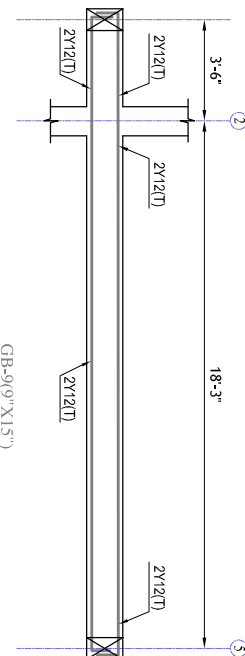


GB-6(9' X 15'')



GB-7(9' X 15'')

GB-8(9' X 15'')



GB-9(9' X 15'')

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (S/T/N1/R0)

- GRADE OF CONCRETE: **M20** (DESIGN MIX) (AS PER IS 456-2000)
- GRADE OF STEEL: **Fe500D** (AS PER IS 1786-2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHALL BE THE RESPONSIBILITY OF THE CONSULTANT ENGINEER. NOTICE BEFORE EXECUTION.
- DO NOT CAST ANY R.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
- DESIGN OF PROPPING, SHUTTLING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
- CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - A) GRADE / PLINTH BEAM : 25 MM (1")
 - B) COLUMN : 40 MM (1 1/2")
 - C) ALL ROOF BEAM : 25 MM (1")
 - D) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS:-

- A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
- B) S - STAINLESS STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
- C) DO NOT SCALE THE DRAWING. REFER FIGURED DIMENSIONS.
- D) LAPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB = 60 X DIA OF BAR
 - B) COLUMN = 50 X DIA OF BAR

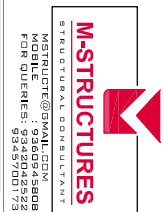
DRAWING STATUS: GOOD FOR CONSTRUCTION

DESIGN LOADS:

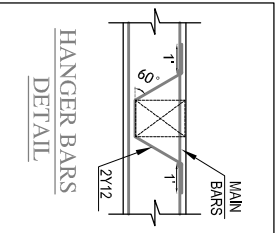
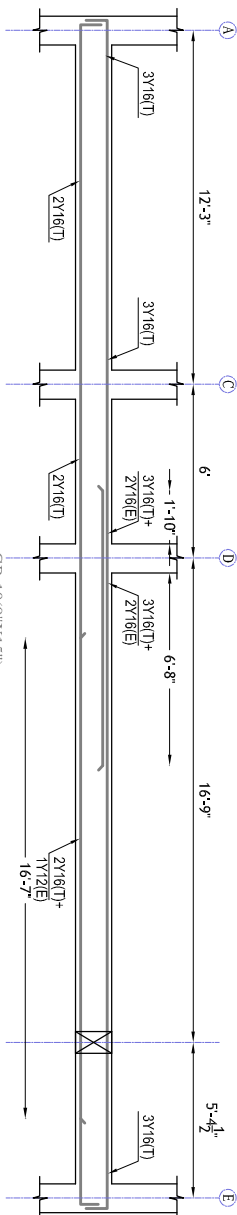
- FLOOR SLAB - 2.5 KNSQ/M
- ROOF SLAB - 1.5 KNSQ/M

CONCRETE MIX
1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



CLIENT:	SHEET NO:
USE:	BLOCK NO:
RESIDENT:	NO. OF FLOORS:
G+ONE:	LOCATION:
TITLE:	
STRUCTURAL DRAWING	
GRADE BEAM DETAIL-2	
DESIGNED:	DATE:
CHECKED:	DATE:
DRAWN:	SCALE:
APPROVED:	1 : 50
PROJECT NO:	DRAWING NO:
ST/G803/R0	



NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET 13T100/RO1

1. GRADE OF CONCRETE :
M20 (DESIGN MIX) (AS PER IS 456:2000)

2. GRADE OF STEEL : **F6500D** (AS PER IS 1786:2008)

3. ANY DISCREPANCY FOUND IN THESE DRAWINGS SHOULD BE BROUGHT TO THE CONSULTANT ENGINEER'S NOTICE BEFORE EXECUTION.

4. DO NOT SIGN ANY SCALE, UNLESS IT IS CHECKED AND APPROVED BY THE CONSULTANT ENGINEER.

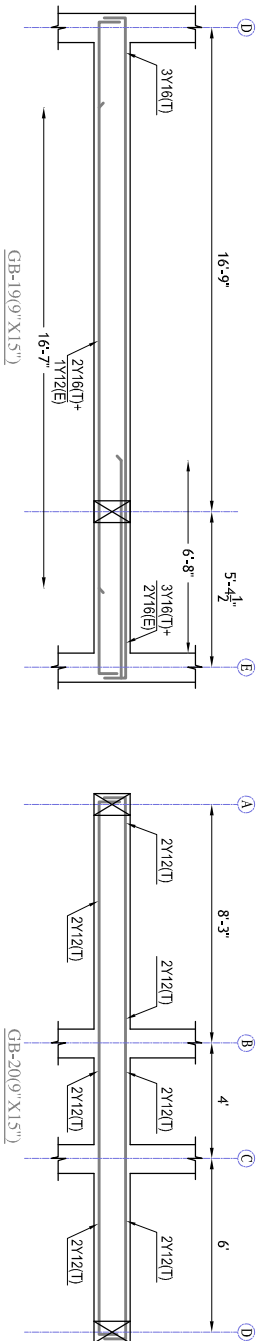
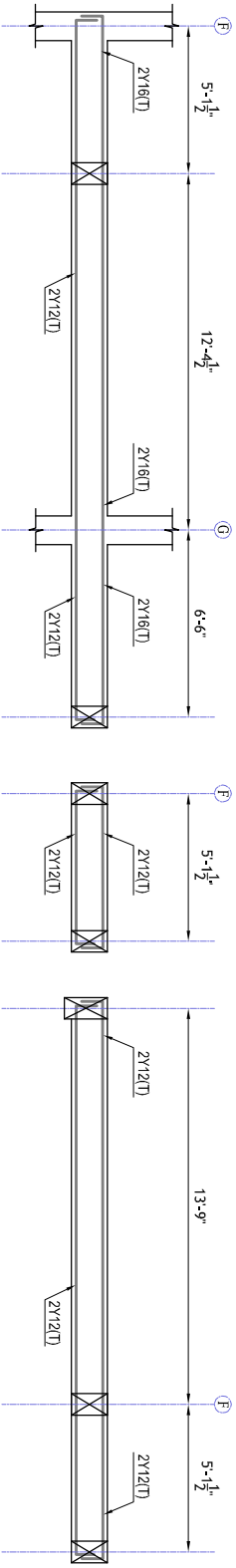
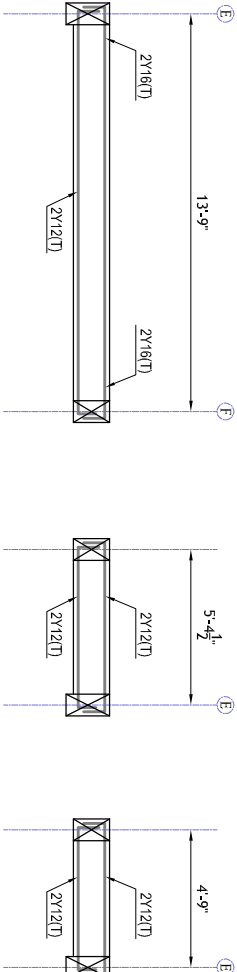
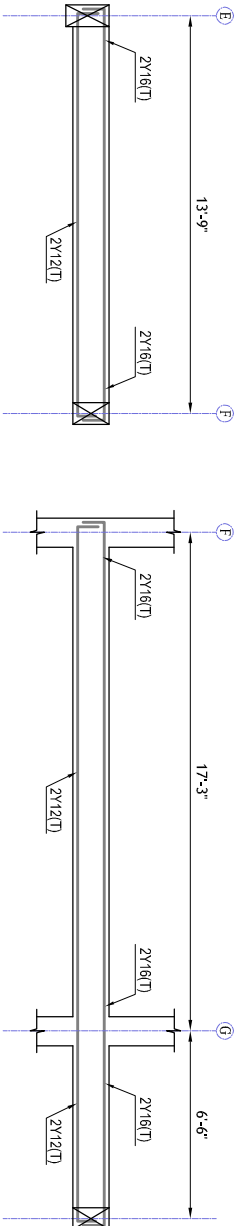
5. DESIGN OF PROPPING, SCAFFOLDING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.

6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

A) GRADE / PLINTH BEAM : 25 MM (1")
 B) BAL ROOF BEAM : 25 MM (1")
 C) ALL ROOF BEAM : 20 MM (3/4")
 D) ALL ROOF SLAB

7. REINFORCEMENT SYMBOL IS :-
 A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 B) H OR W : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
 C) S : STAINLESS STEEL BARS.
 D) DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS.

8. LAPPING OR ANCHORAGE LENGTH
 A) BEAM AND SLAB = 60 X DIA OF BAR
 B) COLUMN = 50 X DIA OF BAR



CLIENT: _____

USE: _____

RESIDENT: _____

TITLE: _____

DESIGNED: _____

DRAWN: _____

PROJECT NO: _____

DRAWING NO: _____

ST/GB04/RO

CONCRETE MIX
 1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

DESIGN LOADS:
 1. FLOOR SLAB : 2.5 KNS/M²
 2. ROOF SLAB : 1.5 KNS/M²

DRAWING STATUS: GOOD FOR CONSTRUCTION



STRUCTURAL CONSULTANT
 MOBILE : 99460945808
 FOR QUERIES : 99457501725

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/TN01/RO)

1. GRADE OF CONCRETE :
M20 (DESIGN MIX) (AS PER IS 456:2000)
2. GRADE OF STEEL : **Fe500D** (AS PER IS 1786:2008)
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CONSULTANT ENGINEER AND CONFIRMED BY SITE ENGINEER.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTLING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
A) GRADE / PLINTH BEAM : 25 MM (1")
B) COLUMN : 40 MM (1-1/2")
C) ALL ROOF BEAM : 25 MM (1")
D) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS :-

- A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM², STRENGTH IS 250 N/MM²

8. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

9. LAP OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 60 X DIA OF BAR
B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

1. FLOOR SLAB - 2.5 KNSQ/M
2. ROOF SLAB - 1.5 KNSQ/M

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

M-STRUCTURES

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MSTRUTTE@GMAIL.COM
FOR QUERIES: 9342044552
9345700173

CLIENT:

SURVEY NO:

USE:

NO. OF FLOORS:

BLOCK NO:

RESIDENT

G+ONE

LOCATION:

TITLE:

STRUCTURAL DRAWING
GRADE BEAM DETAIL-4

DESIGNED:

CHECKED:

DATE:

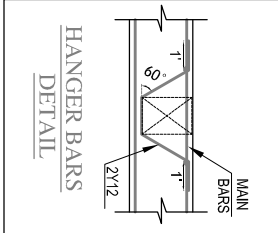
DRAWN:

APPROVED:

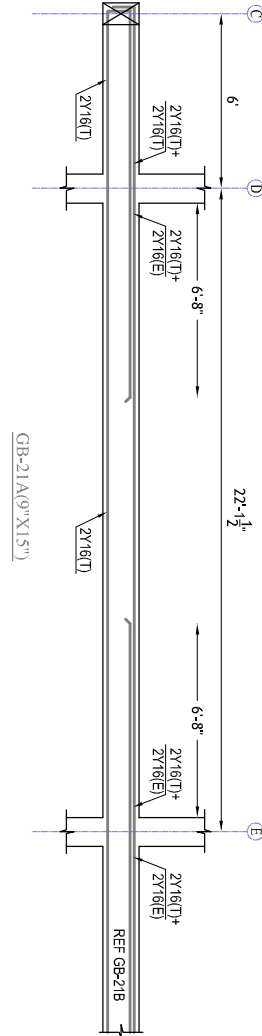
SCALE:

PROJECT NO:

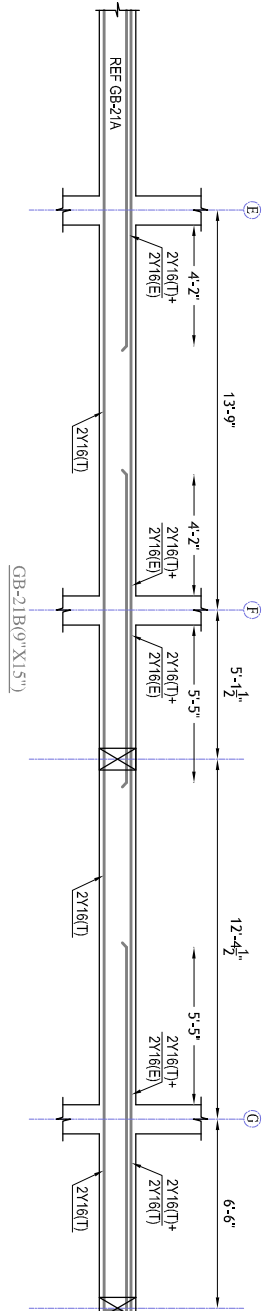
DRAWING NO: ST/GB05/RO



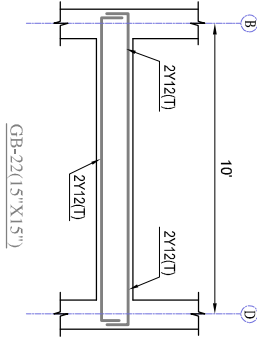
GB-21A(9"X15")



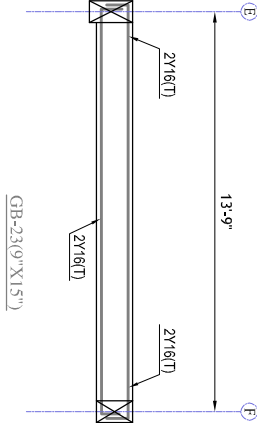
GB-21B(9"X15")



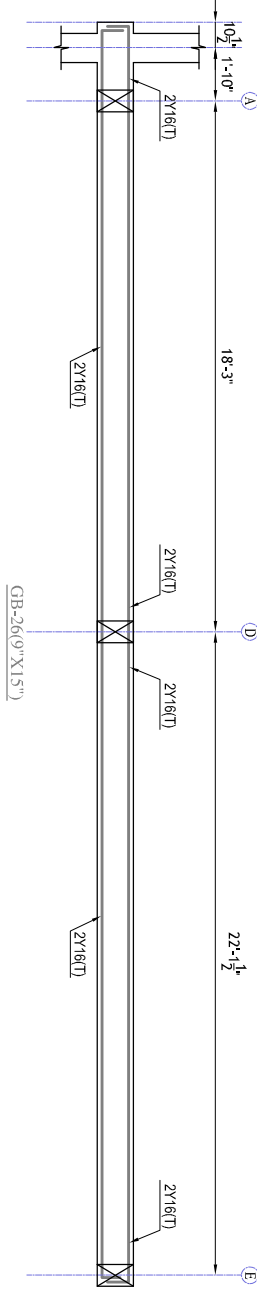
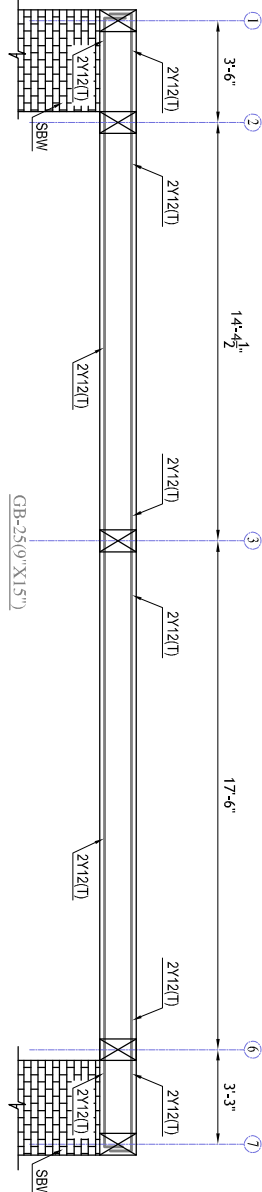
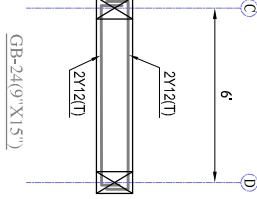
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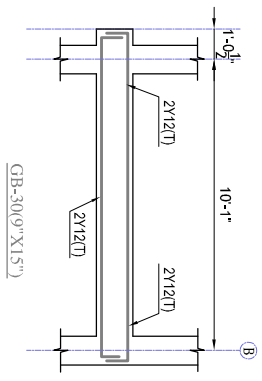
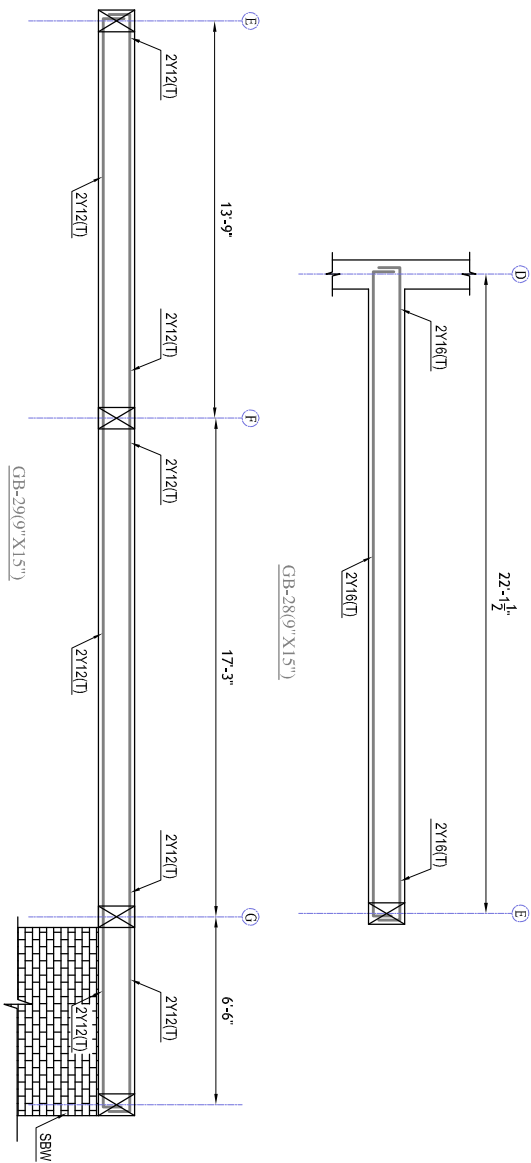
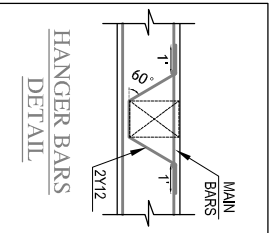
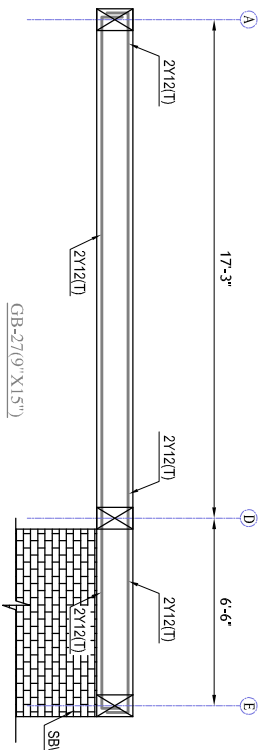


GB-23(9"X15")



GB-24(9"X15")





NOTES

GENERAL NOTES & TECHNICAL NOTES

REFER SHEET (S/TTN01/RO)

1. GRADE OF CONCRETE : **M20** (DESIGN MIX) (AS PER IS-456:2000)

2. GRADE OF STEEL : **Fe500D** (AS PER IS-1786:2008)

3. ALL REINFORCEMENT BARS SHALL BE BROUGHT TO THE CONSULTANT ENGINEER'S NOTICE BEFORE EXECUTION.

4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.

5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.

6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

A) GRADE / PLINTH BEAM : 25 MM (1")

B) COLUMN : 40 MM (1-1/2")

C) ALL ROOF BEAM : 25 MM (1")

D) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS :-

A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM²

B) S : STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

8. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

9. LAPING OR ANCHORAGE LENGTH

A) BEAM AND SLAB = 60 X DIA OF BAR

B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS : **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB - 2.5 N/MSQ.M

2. ROOF SLAB - 1.5 N/MSQ.M

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

M-STRUCTURES
STRUCTURAL CONSULTANT

MSSTRUCT@GMAIL.COM
9342042522
93429700173

CLIENT: _____

SURVEY NO: _____

NO. OF FLOORS: _____

LOCATION: _____

BLOCK NO: _____

RESIDENT: _____

G+ONE

TITLE:

STRUCTURAL DRAWING

GRADE BEAM DETAIL-S

DESIGNED: _____

CHECKED: _____

DATE: _____

DRAWN: _____

APPROVED: _____

SCALE: **1 : 50**

PROJECT NO: _____

DRAWING NO: **ST/GB06/RO**

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/INT/RO]

1. GRADE OF CONCRETE :
M20 - (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL - **Fe500D** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING
SHOULD BE BROUGHT THE CONSULTANT ENGINEER
NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED
AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE
MIX IS CONSULTANT OR CLIENT OR SITE PERSON
RESPONSIBILITY.
6. CATCH OVER FOR REINFORCEMENT SHALL BE AS
FOLLOWS:

- A) GRADE / PLINTH BEAM : 25 MM (1")
B) COLUMN : 40 MM (1-1/2")
C) ALL ROOF BEAM : 25 MM (1")
D) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS :-

- A) Y OR O - HIGH YIELD STRENGTH BARS OF
MINIMUM YIELD STRENGTH IS 500 NMM².
B) R OR Q - MILD STEEL OF MINIMUM YIELD
STRENGTH IS 250 NMM².
8. DO NOT SCALE THE DRAWING REFER FIGURED
DIMENSIONS.
9. LAPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 60 X DIA OF BAR
B) COLUMN
= 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

1. FLOOR SLAB - 2.5 KNSQ.M
2. ROOF SLAB - 1.5 KNSQ.M

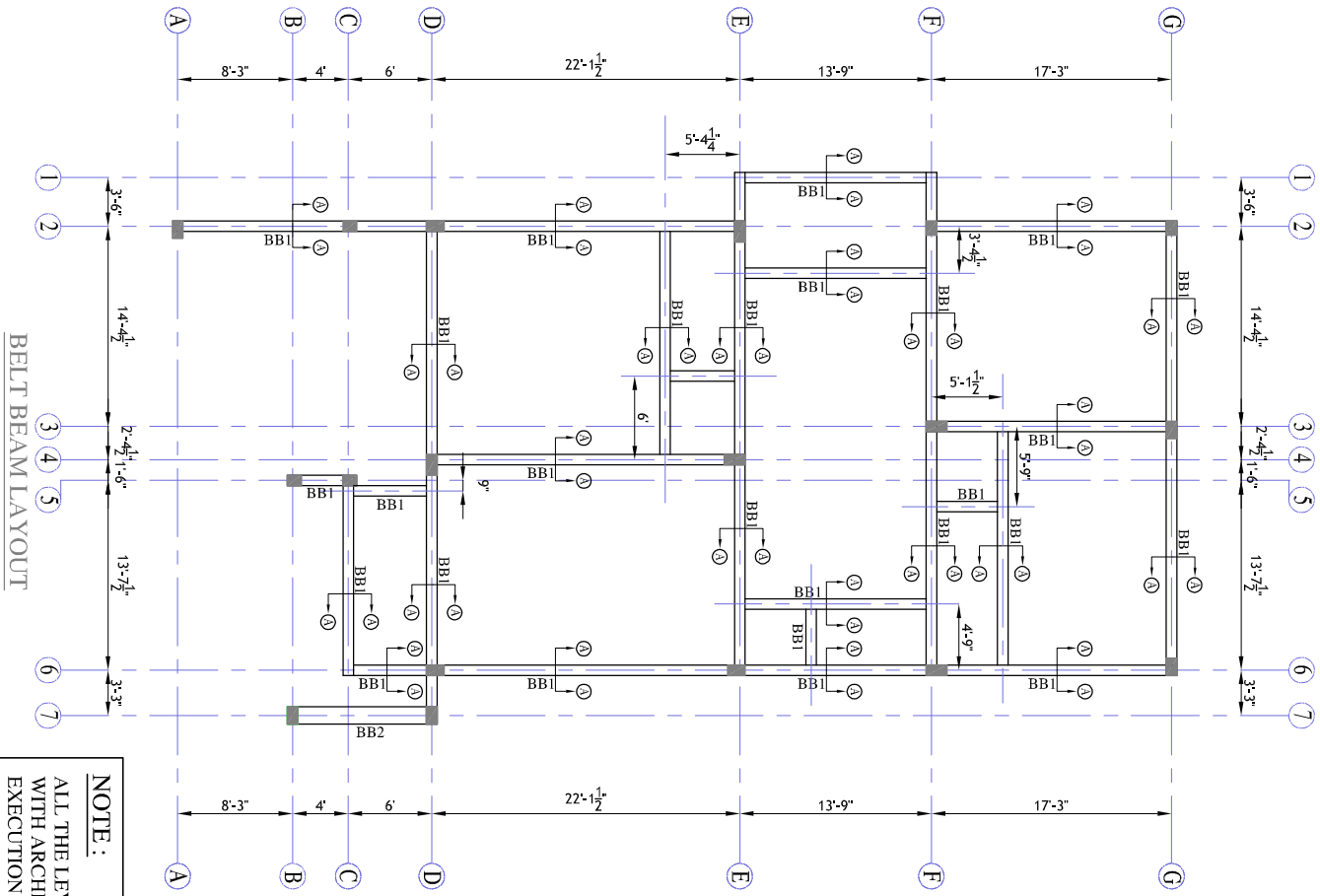
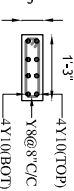
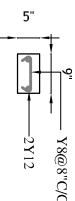
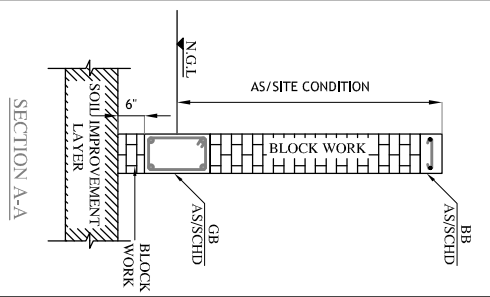
CONCRETE MIX
1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE

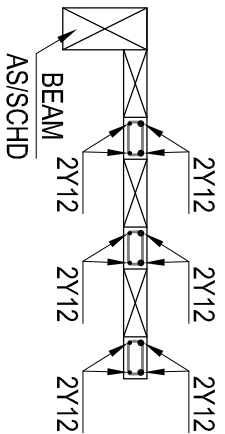


CLIENT: SURVEY NO. :
BLOCK NO. :
USE: NO. OF FLOORS: LOCATION:
RESIDENT: G+ONE
TITLE: STRUCTURAL DRAWING
BELT BEAM LAYOUT

DESIGNED: CHECKED: DATE:
DRAWN: APPROVED: SCALE: 1 : 100
PROJECT NO.: DRAWING NO. ST/BB01/RO

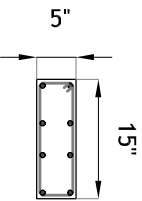


NOTE :
ALL THE LEVELS SHOULD CONFIRM
WITH ARCHITECT BEFORE
EXECUTION OF BELT BEAM.

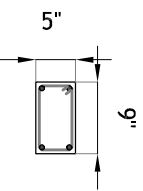


SECTION S-S

(SCALE 1:25)



CB1-CONCEALED BEAM
(SCALE 1:25)



CB2-CONCEALED BEAM
(SCALE 1:25)

ADDITIONAL NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

DIAMETER OF BAR	LAP LENGTH
8 mm	1'-6"
10 mm	2'-0"
12 mm	2'-6"
16 mm	3'-3"
20 mm	4'-0"
25 mm	5'-0"

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/NT01/RO1)

- GRADE OF CONCRETE: **M20** (DESIGN MIX) (AS PER IS 456:2000)
- GRADE OF STEEL: **Fe500D** (AS PER IS 1786:2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- DO NOT CAST ANY R.A.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
- MAXIMUM FACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
- BEFORE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

- COLUIN : 40 MM (1-1/2")
- ALL ROOF BEAM : 25 MM (1")
- ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS :-

- Y OR O HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
- R OR Q MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
- DO NOT SCALE THE DRAWING, REFER FIGURED DIMENSIONS
- PUMPING & ELECTRICAL PIPES (S, E, W, S) NEED TO BE PLACED BEFORE CONCRETING.
- ALL LOFT, SUNSHADE AND LINTEL LEVELS & LOCATIONS SHOULD BE REFERRED WITH ARCHITECT.
- LAPPING OR ANCHORAGE LENGTH OF BAR
- COLUIN : 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

- FLOOR SLAB : 2.5 N/M² S.M
- ROOF SLAB : 1.5 N/M² S.M

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



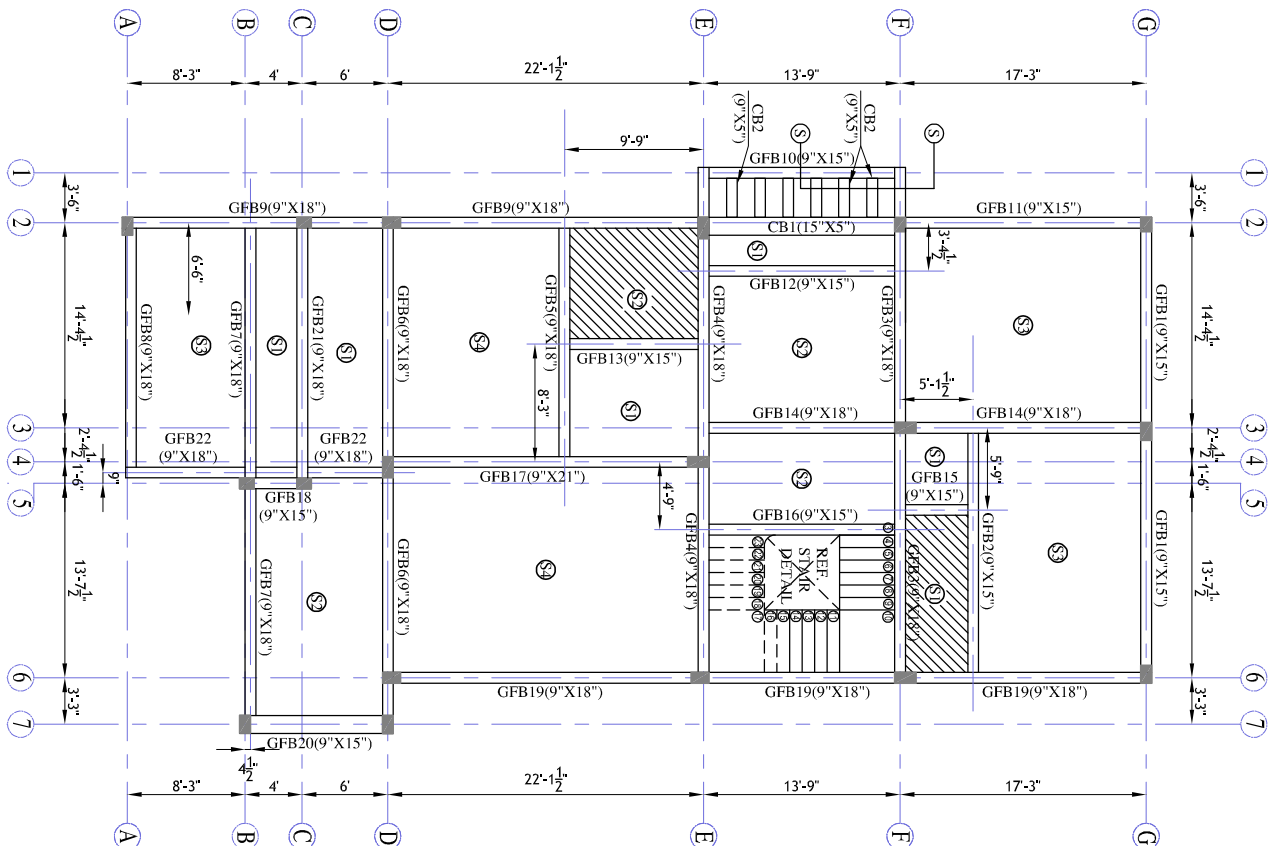
CLIENT: SURVEY NO: BLOCK NO: DRAWING NO: ST/GFB01/RO

USE: NO. OF FLOORS: LOCATION: RESIDENT: G + ONE TITLE: STRUCTURAL DRAWING GROUND FLOOR ROOF BEAM & SLAB LAYOUT

DESIGNED: CHECKED: DATE: DRAWN: APPROVED: SCALE: 1 : 100,50 PROJECT NO: ST/GFB01/RO

NOTE : REFER SLAB DRAWING SOR SLAB STEEL DETAILS

GROUND FLOOR ROOF BEAM & SLAB LAYOUT



NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/7/01/RO)

1. GRADE OF CONCRETE: **M20** (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL: **Fe500D** (AS PER IS 7786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING
NOTICE BEFORE EXECUTION
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED
AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTLING AND CONCRETE
MIX IS CONTRACTOR OR CLIENT OR SITE PERSON
RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS
FOLLOWS:-
A) GRADE / PLINTH BEAM 25 MM (1")
B) COLUMN 40 MM (1-1/2")
C) SLAB AND BEAM 20 MM (3/4")
D) ALL ROOF SLAB 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS:-

- A) Y OR O - HIGH YIELD STRENGTH BARS OF
MINIMUM YIELD STRENGTH IS 500 N/MM².
B) S - STANDARD STEEL OF MINIMUM YIELD
STRENGTH IS 250 N/MM².
8. DO NOT SCALE THE DRAWING REFER FIGURED
DIMENSIONS
9. LAPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 50 X DIA OF BAR
B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS: **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB = 2.5 N/M² (K₁)
2. ROOF SLAB = 0.15 N/M² (K₂)

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



CLIENT:

SHEET NO:

BLOCK NO:

NO. OF FLOORS:

LOCATION:

RESIDENT:

G + ONE

TITLE:

STRUCTURAL DRAWING

GROUND FLOOR ROOF BEAM DETAIL-2

DESIGNED:

CHECKED:

DATE:

DRAWN:

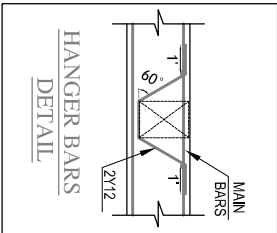
APPROVED:

SCALE:

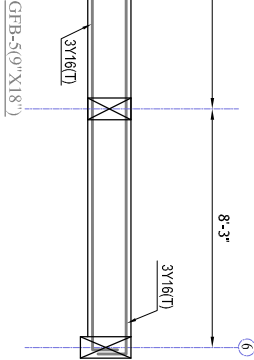
PROJECT NO:

DRAWING NO:

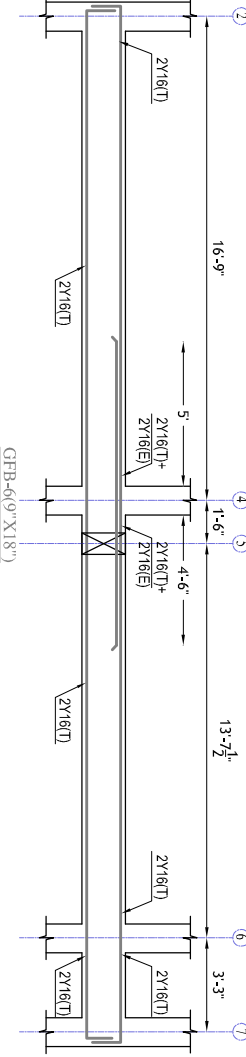
ST/GFB03/RO



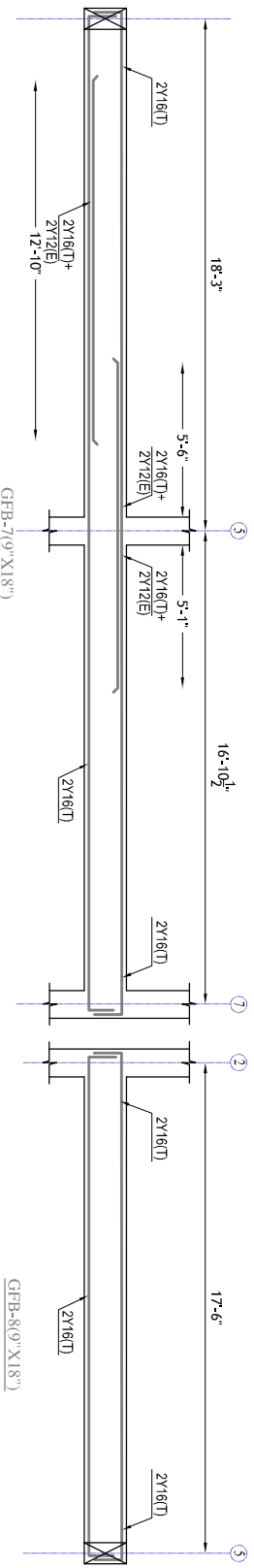
HANGER BARS
DETAIL



GFB-5(9"X18")

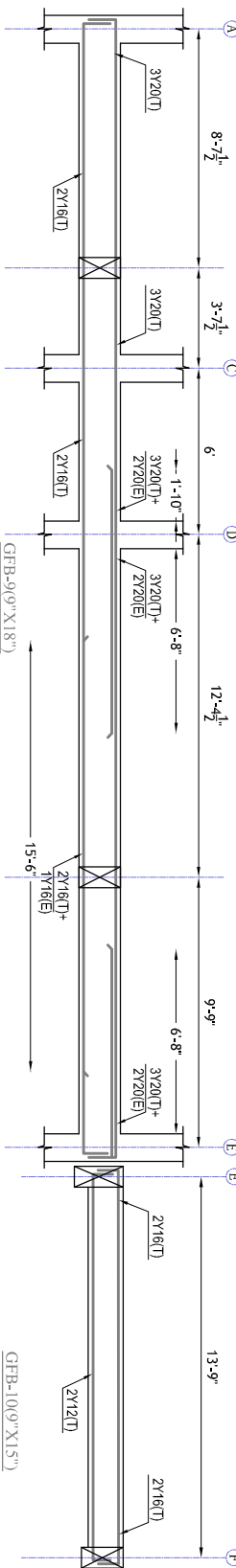


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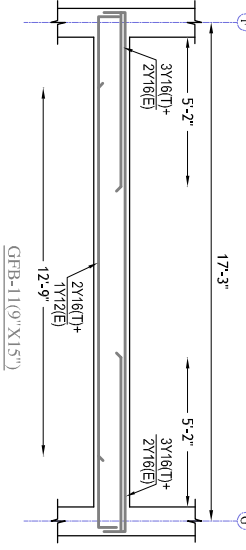


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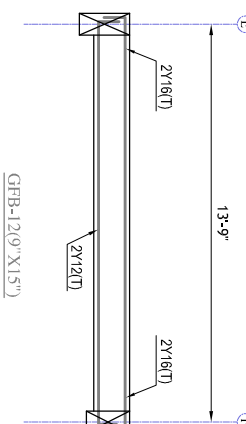
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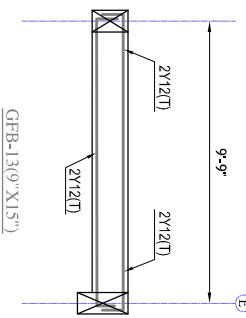
GFB-10(9"X15")



GFB-11(9"X15")



GFB-12(9"X15")



GFB-13(9"X15")

NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET IST010/R01

- GRADE OF CONCRETE :-
M20 - (DESIGN MIX) (AS PER IS 456:2000)
- GRADE OF STEEL - **F6500D** (AS PER IS 1786:2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- DO NOT SIGN ANY R.O.C. WORKER UNLESS IT IS CHECKED AND APPROVED BY THE CONSULTANT ENGINEER.
- EDISON OF PROPPING, SUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
- CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
A) GRADE / P.LINTH: BEAM = 25 MM (1")
B) COLUMN = 40 MM (1-1/2")
C) ALL ROOF BEAM = 20 MM (3/4")
D) ALL ROOF SLAB

- REINFORCEMENT SYMBOL IS :-
A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
B) R OR A - MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
C) S - STAINLESS STEEL BARS.
D) DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

- LAPPING OR ANCHORAGE LENGTH
A) BEAM AND SLAB = 60 X DIA OF BAR
B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS | GOOD FOR CONSTRUCTION

DESIGN LOADS:

- FLOOR SLAB - 4.5 KNS/M²
- ROOF SLAB - 1.5 KNS/M²

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



M-STRUCTURES
STRUCTURAL CONSULTANT
MOBILE: 994609945808
FOR QUERIES: 994575801722

CLIENT:

SURVEY NO.:

USE:

BLOCK NO.:

RESIDENT

NO. OF FLOORS

LOCATION

NO. OF FLOORS

LOCATION

STRUCTURAL DRAWING
GROUND FLOOR ROOF BEAM DETAIL-3

DESIGNED:

CHECKED:

DATE:

DRAWN:

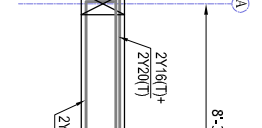
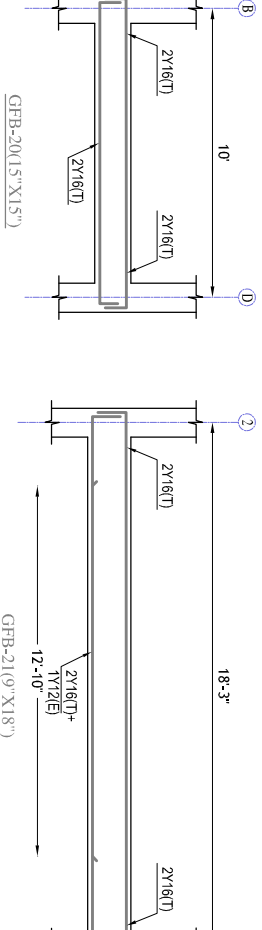
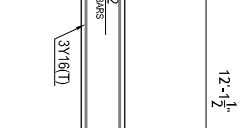
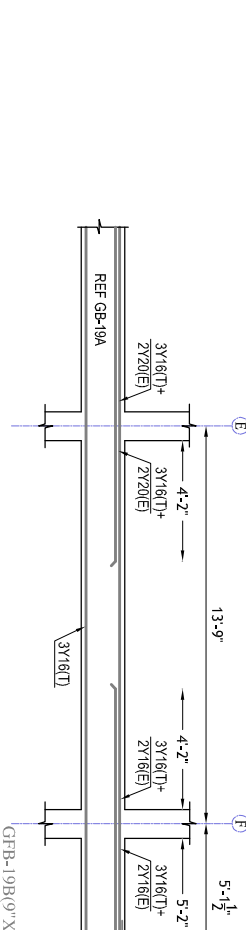
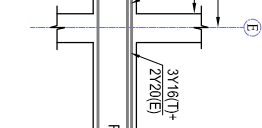
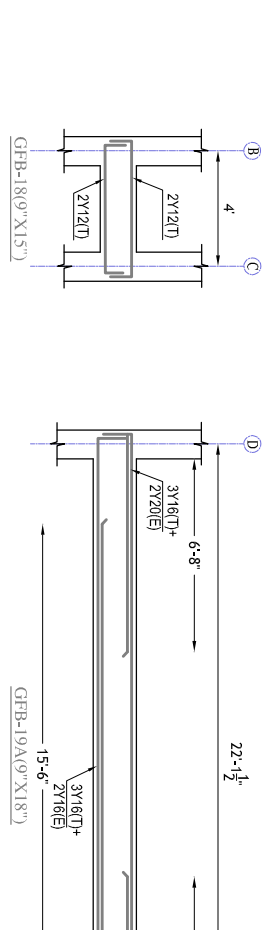
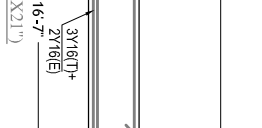
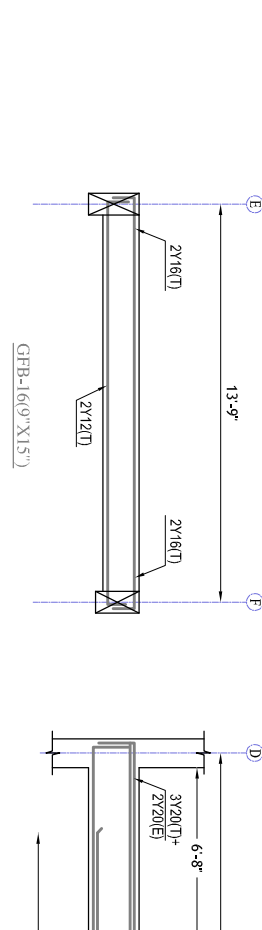
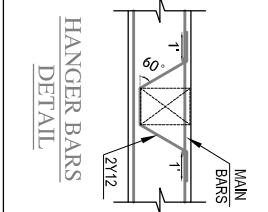
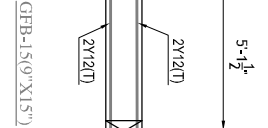
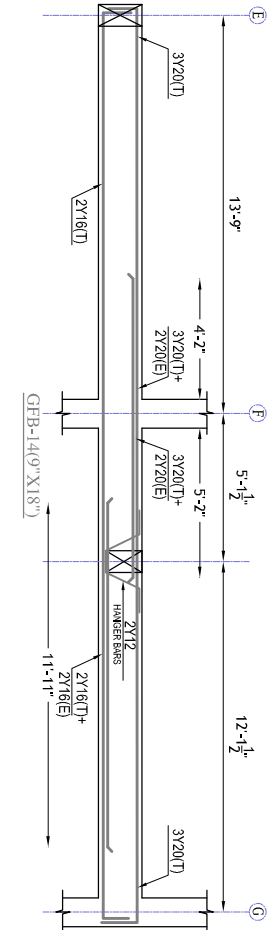
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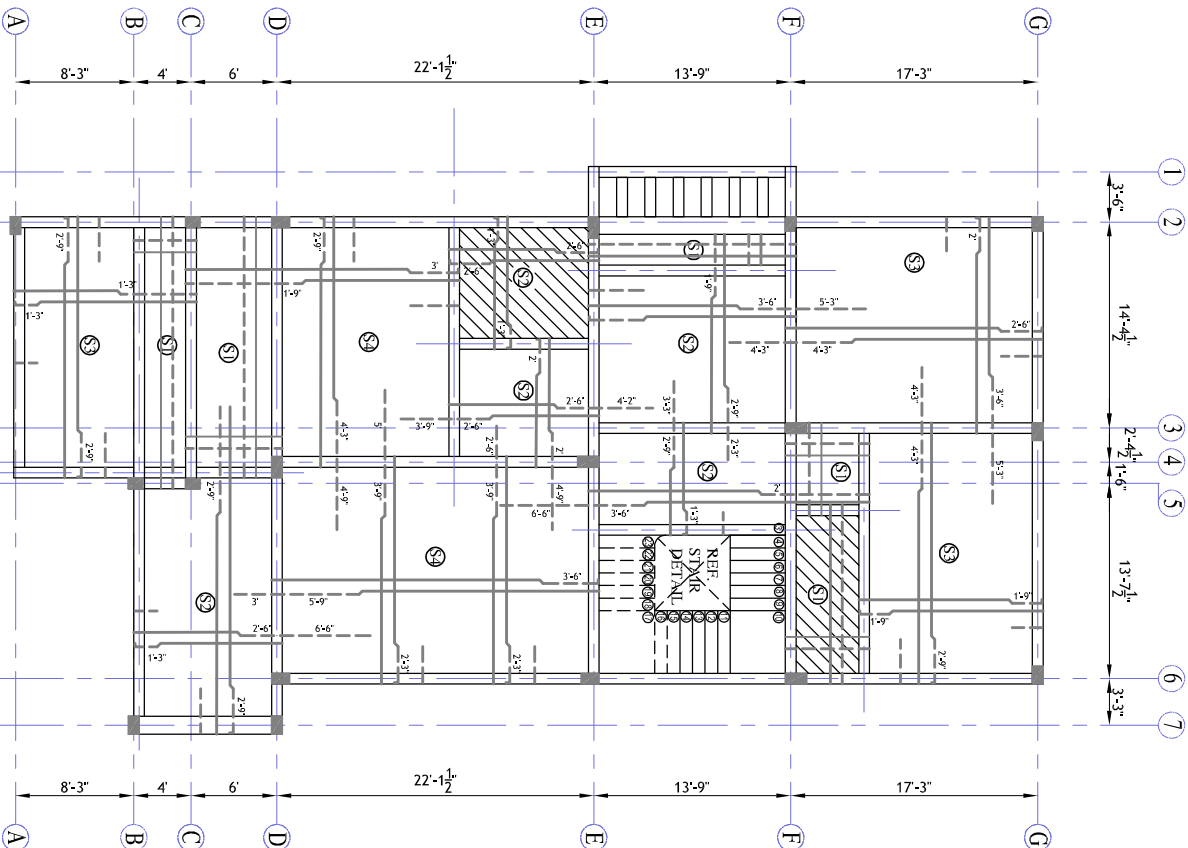
SCALE:

PROJECT NO.:

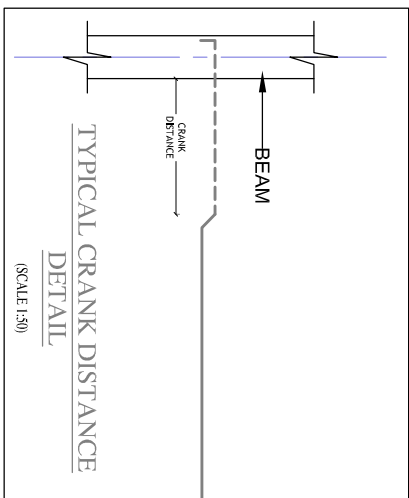
DRAWING NO.:

ST / GFB04 / R0





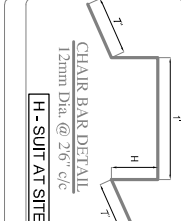
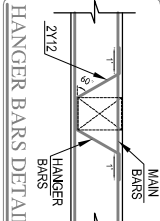
GROUND FLOOR ROOF SLAB REINFORCEMENT DETAILS



ADDITIONAL NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

DIAMETER OF BAR	LAP LENGTH
8 mm	1'-6"
10 mm	2'-0"
12 mm	2'-6"
16 mm	3'-3"
20 mm	4'-0"
25 mm	5'-0"



NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST/MT/RO)

1. GRADE OF CONCRETE : M20 (DESIGN MIX) (AS PER IS 456:2000)
2. GRADE OF STEEL : Fe500D (AS PER IS 1786:2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHALL BE THE RESPONSIBILITY OF THE CONSULTANT ENGINEER.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE PUMPING SHALL BE THE RESPONSIBILITY OF THE CONSULTANT ENGINEER OR CLIENT OR SITE PERSON.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - A) COLUMN : 40 MM (1-1/2")
 - B) ALL ROOF BEAM : 20 MM (3/4")
 - C) ALL ROOF SLAB : 20 MM (3/4")
7. REINFORCEMENT SYMBOL IS :-
8. MINIMUM YIELD STRENGTH IS 500 N/MM².
9. DO NOT SCALE THE DRAWING. REFER REQUIRED DIMENSIONS.
10. PROVIDE CHAIRS WHEREVER REQUIRED.
11. ALL LOFT, SUNSHADE AND INTEL. LEVELS & LOCATIONS SHOULD BE REFERRED WITH ARCHITECT.
12. LAPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB : 60 X DIA. OF BAR
 - B) COLUMN : 50 X DIA. OF BAR
 - C) LOCALITY : 50 X DIA. OF BAR
13. DRAWING STATUS : GOOD FOR CONSTRUCTION
14. INDICATES SLAB ROD AT TOP.
15. INDICATES SLAB ROD AT BOTTOM.

DESIGN LOADS:

1. FLOOR SLAB : 2.25 KNS/M²
2. ROOF SLAB : 1.25 KNS/M²

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



CLIENT: SURVEY NO. BLOCK NO. NO. OF FLOORS: LOCATION: RESIDENT: G + ONE TITLE: STRUCTURAL DRAWING GROUND FLOOR ROOF SLAB REINFORCEMENT DESIGNED: CHECKED: DATE: DRAWN: APPROVED: SCALE: 1 : 100,50 PROJECT NO: ST/GF/B01/R0

SCHEDULE OF SLABS

TYPE	THICK	SLAB REINFORCEMENT				SLAB TYPE	REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN			
		BOTTOM	TOP	BOTTOM	TOP		
S1	5"	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	ONE WAY	DOUBLE MAT
S2	5"	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	TWO WAY	REFER TYPICAL DETAIL
S3	5"	Y10 @ 5" C/C	Y10 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	TWO WAY	REFER TYPICAL DETAIL
S4	6"	Y10 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	TWO WAY	REFER TYPICAL DETAIL
S5	10"	Y12 @ 5" C/C	Y12 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	CANTILEVER	DOUBLE MAT

NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST/TH01/RO)

- GRADE OF CONCRETE: **M20** (DESIGN MIX) (AS PER IS 456-2000)
- GRADE OF STEEL: **Fe500D** (AS PER IS 1786-2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
- DESIGN OF PROPPING, SHUTTERING AND CONCRETE RESPONSIBILITY SHALL BE ON CLIENT OR SITE PERSON.
- SLAB COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - A) GRADE / PLINTH BEAM 25 MM (1")
 - B) COLUMN 40 MM (1-1/2")
 - C) ALL ROOF BEAM 25 MM (1")
 - D) ALL ROOF SLAB 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS:-
- A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 - B) R OR O - MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
 - 8. DIMENSIONS SHALL BE THE DRAWING REFER FIGURED DIMENSIONS.
 - 9. LAPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB = 60 X DIA OF BAR
 - B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS: **GOOD FOR CONSTRUCTION**

INDICATES SLAB ROD AT TOP.

INDICATES SLAB ROD AT BOTTOM.

DESIGN LOADS:

- FLOOR SLAB -1.5 KNS/M²
- ROOF SLAB -1.2 KNS/M²

CONCRETE MIX

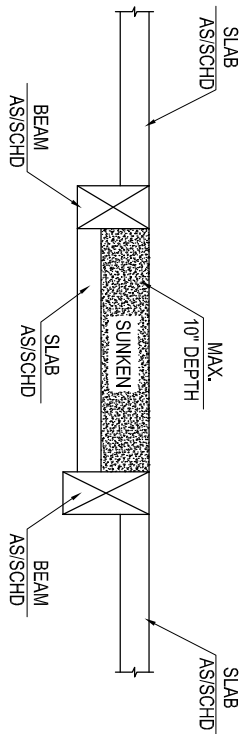
1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

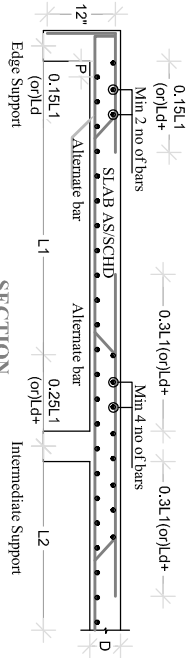
NOTES:

LIGHT WEIGHT MATERIALS IS TO BE USED TO FILL THE SUNKEN AREA.

SUNKEN DETAILS



TYPICAL TWO WAY SLAB PLAN



SECTION

WHERE:

D-DEPTH OF SLAB ASSCHD

S-SPACING OF MAIN BAR ASSCHD

P-SHALL NOT EXCEED S/2

+DENOTES THAT 0.3L OR Ld WHICHEVER IS GREATER SHOULD BE PROVIDED

TYPICAL TWO WAY SLAB CURTAINMENT DETAILS



M-STRUCTURES
STRUCTURAL CONSULTANT
STRUCTURE@MXAT.COM
MOBILE : 9360945808
FOR QUERIES: 9342028725

CLIENT:

SURVEY NO:

USE:

BLOCK NO:

RESIDENT:

LOCATION:

TITLE:

STRUCTURAL DRAWING
GROUND FLOOR ROOF SLAB DETAIL

DESIGNED:

CHECKED:

DATE:

DRAWN:

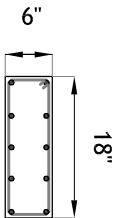
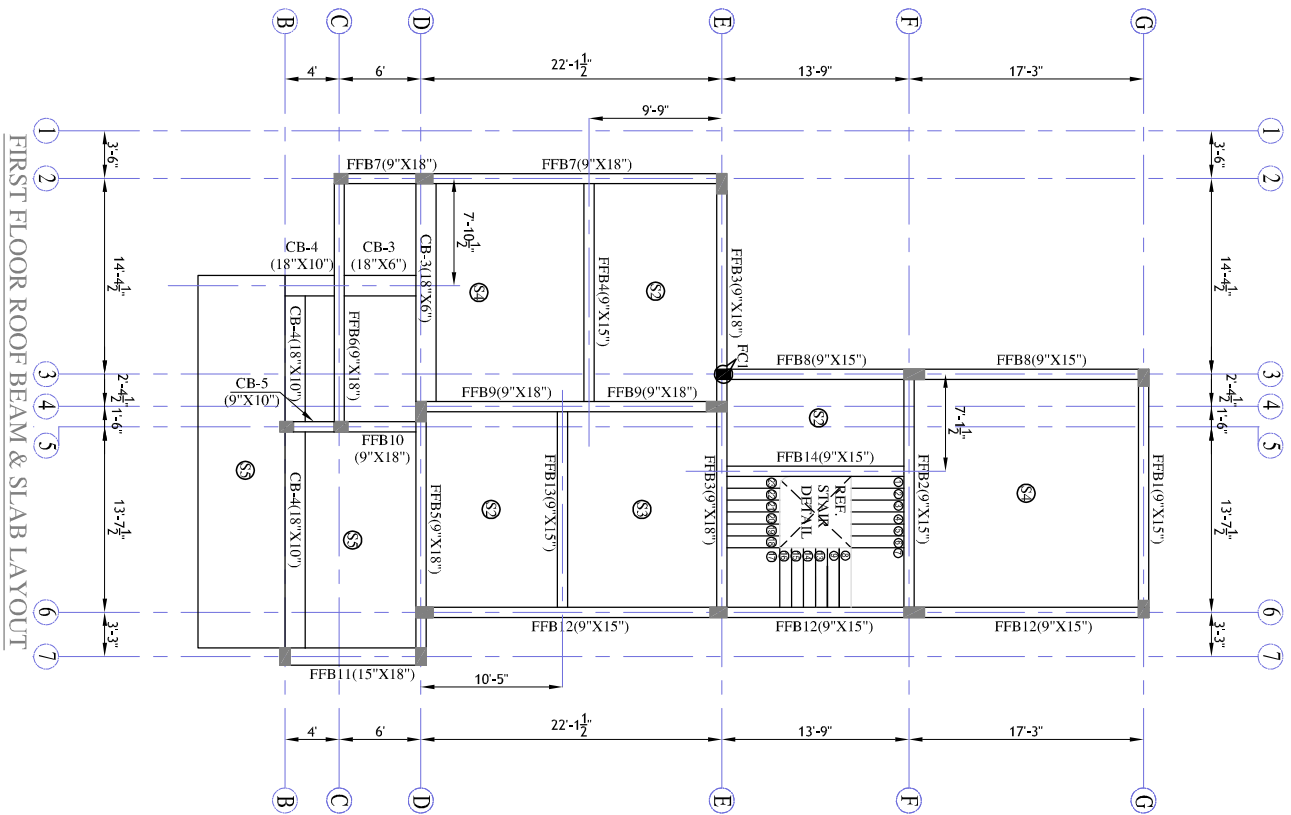
APPROVED:

SCALE:

PROJECT NO:

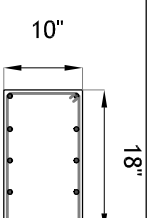
DRAWING NO:

ST/GF805/RO



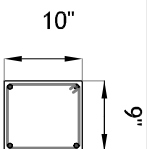
SIZE : 18"X6"
STEEL : 5Y20(T)&5Y16(B)
STIRRUPS : Y8@6"C/C

CB4-CONCEALED BEAM (SCALE 1:20)



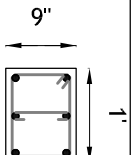
SIZE : 18"X10"
STEEL : 5Y20(T)&5Y16(B)
STIRRUPS : Y8@6"C/C

CB4-CONCEALED BEAM (SCALE 1:20)



SIZE : 9"X10"
STEEL : 2Y16(T/B)
STIRRUPS : Y8@6"C/C

CB5-CONCEALED BEAM (SCALE 1:20)



SIZE : 9"X12"
STEEL : 4Y16(CORNER)+2Y12
STIRRUPS : Y8@6"C/C

FC1-FLOATING COLUMN (SCALE 1:20)

ADDITIONAL NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

FOR Min GRADE OF CONCRETE & Fe500 GRADE OF STEEL		
DIAMETER OF BAR	LAP LENGTH	
8 mm	1' 6"	
10 mm	2' 0"	
12 mm	2' 6"	
16 mm	3' 3"	
20 mm	4' 0"	
25 mm	5' 0"	

NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST/ND01/RO)

- GRADE OF CONCRETE : **M20** (DESIGN MIX) (AS PER IS 456-2000)
- GRADE OF STEEL : **Fe500D** (AS PER IS 1786-2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER BEFORE EXECUTION.
- DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
- DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIXES CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
- CLARIFY COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:

- A) COLUMN : 40 MM (1-1/2")
B) ALL ROOF BEAM : 25 MM (1")
C) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOLS IS :

ANY OR O HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².

B) R OR O : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

8. DO NOT SCALE THE DRAWING REFER REQUIRED REINFORCEMENT

9. PUMPING & ELECTRICAL PIPES (SLICES) NEED TO BE PLACED BEFORE CONCRETING.

10. PROVIDE CHAIRS WHEREVER REQUIRED.

11. ALL LOFT, SUNSHADE AND UNTEL LEVELS & LOCATIONS SHOULD BE REFERRED WITH ARCHITECT.

12. LAPING OR ANCHORAGE LENGTH

B) COLUMN : 50 X DIA OF BAR

DRAWING STATUS : **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

- FLOOR SLAB : 2.5 KNS/M²
- ROOF SLAB : 1.5 KNS/M²

CONCRETE MIX

1 : 1.5 : 3

NOTES : THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



M-STRUCTURES
STRUCTURAL CONSULTANT
MOBILE : 9360945808
FOR QUOTES : 93457001723

CLIENT : STREET NO. BLOCK NO.

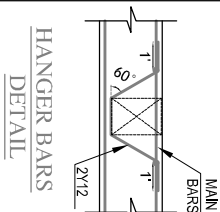
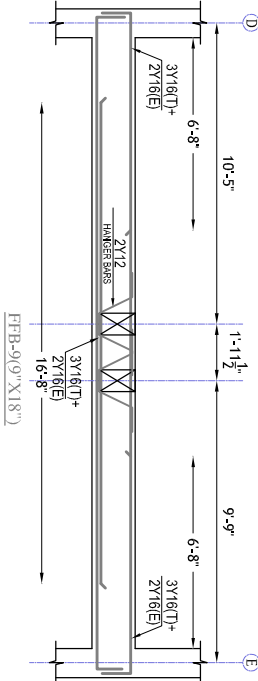
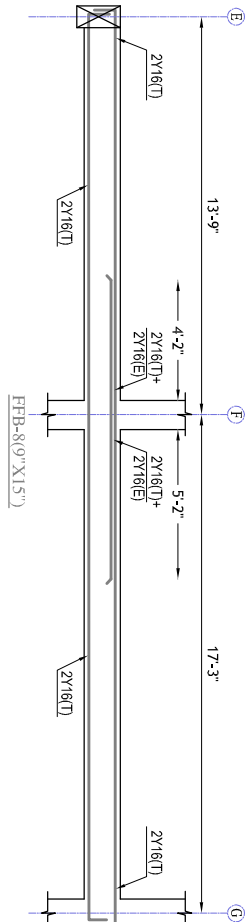
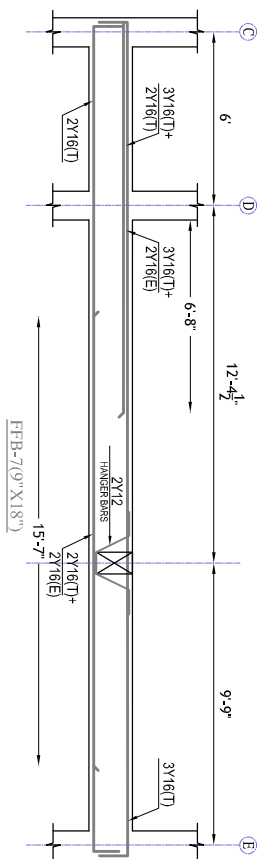
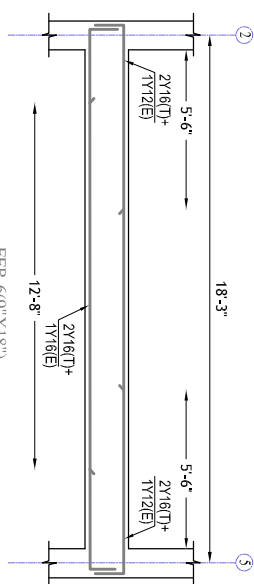
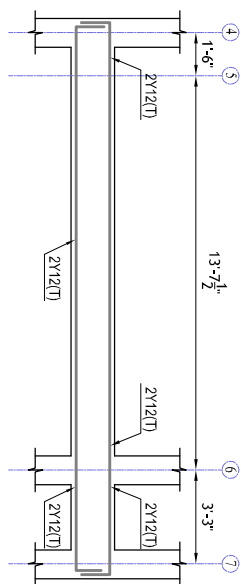
USE: NO. OF FLOORS: LOCATION: RESIDENT: G + ONE

STRUCTURAL DRAWING

TITLE: FIRST FLOOR ROOF BEAM & SLAB LAYOUT

DESIGNED: CHECKED: DATE: SCALE: 1 : 100,50

DRAWN: APPROVED: PROJECT NO. ST/FFB01/RO



NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST/TTN01/RO)

1. GRADE OF CONCRETE: **M20** (DESIGN MIX) (AS PER IS 456-2000)
2. GRADE OF STEEL: **Fe500D** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHALL BE THE RESPONSIBILITY OF THE CONSULTANT ENGINEER. NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - A) GRADE / PLINTH BEAM: 25 MM (1")
 - B) FOOTING / PILE CAP BOTTOM: 50 MM (2")
 - C) COLUMN: 25 MM (1")
 - D) FOOTING / PILE CAP SIDE: 25 MM (1")
 - E) ALL ROOF BEAM: 25 MM (1")
 - F) ALL ROOF SLAB: 20 MM (3/4")
 - G) R.C.C. WALL (SHEAR WALL, SUMP/WALL, CHIMNEY, etc.): 40 MM (1-1/2")
 - H) SLAB BOTTOM SLAB: 25 MM (1")
 - I) COVER SLAB: 25 MM (1")
7. REINFORCEMENT SYMBOL IS :-
 - A) Y OR O: HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 - B) R OR Q: MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
 - 8. DO NOT SCALE THE DRAWING. REFER FIGURED DIMENSIONS.
 - 9. LAPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB = 60 X DIA. OF BAR
 - B) COLUMN = 50 X DIA. OF BAR

DRAWING STATUS: GOOD FOR CONSTRUCTION

DESIGN LOADS:

1. FLOOR SLAB = 2.5 N/M² (K&S)
2. ROOF SLAB = 1.0 N/M² (K&S)

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



CLIENT:

SHEET NO.:

USE:

BLOCK NO.:

NO. OF FLOORS:

LOCATION:

RESIDENT:

G + ONE

TITLE:

STRUCTURAL DRAWING FIRST FLOOR ROOF BEAM DETAIL-2

DESIGNED:

DATE:

CHECKED:

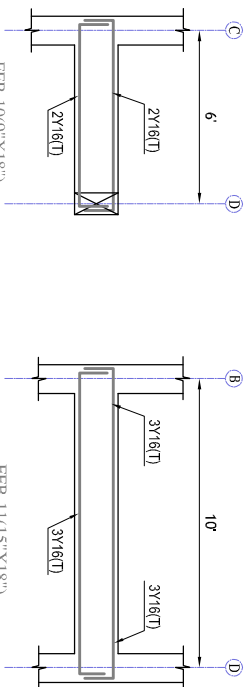
SCALE:

DRAWN:

PROJECT NO.:

DRAWING NO.:

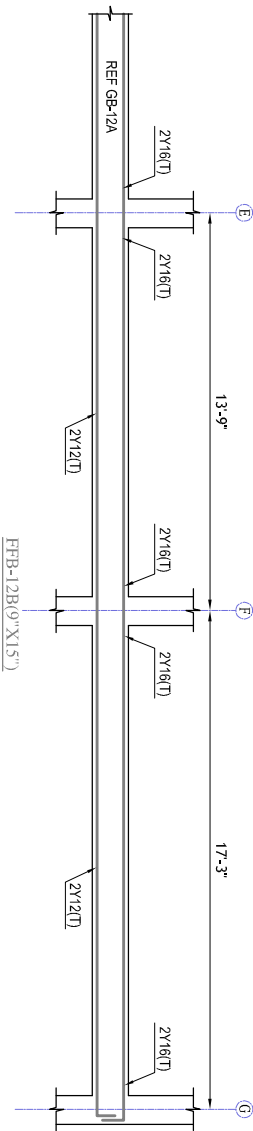
ST/FFB03/RO



FFB-10(9"X18")

FFB-11(15"X18")

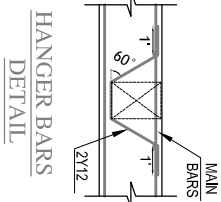
FFB-12A(9"X15")



FFB-12B(9"X15")

FFB-13(9"X15")

FFB-14(9"X15")



NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (ST/RO)

- GRADE OF CONCRETE :
M20 (DESIGN MIX) (AS PER IS 456:2000)
- GRADE OF STEEL : **F8500D** (AS PER IS 1786:2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- DO NOT SCALE THE DRAWING UNLESS IT IS CHECKED BY THE CONSULTANT ENGINEER.
- DESIGN OF PROPPING, SUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
- CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - GRADE / P.LINTH BEAM : 25 MM (1")
 - FOOTING / PILE CAP BOTTOM : 50 MM (2")
 - FOOTING / PILE CAP SIDE : 25 MM (1")
 - ALL ROOF BEAM : 25 MM (1")
 - R.C.C WALL (SHEAR WALL) SLUMP (40 MM (1-1/2")
 - PILE SIDE : 50 MM (2")
 - PILE BOTTOM : 50 MM (2")
 - COVER SLAB : 25 MM (1")
- REINFORCEMENT SYMBOL IS :-
 - Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 NMM².
 - R OR O : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 NMM².
- DO NOT SCALE THE DRAWING REFER FIGURED
- LAPPING OR ANCHORAGE LENGTH
 - BEAM AND SLAB = 60 X DIA OF BAR
 - COLUMN = 50 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

- FLOOR SLAB : 4.2 KNS/M²
- ROOF SLAB : 1.5 KNS/M²

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



CLIENT:

SURVEY NO. :
BLOCK NO. :

USE: NO. OF FLOORS :
RESIDENT G + ONE LOCATION :

TITLE: STRUCTURAL DRAWING
FIRST FLOOR ROOF BEAM DETAIL-3

DESIGNED: CHECKED: DATE:

DRAWN: APPROVED: SCALE: 1 : 50

PROJECT NO. : DRAWING NO. : ST / FFB04 / RO

ADDITIONAL NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

DIAMETER OF BAR	LAP LENGTH
8 mm	1' 6"
10 mm	2' 0"
12 mm	2' 6"
20 mm	4' 0"
25 mm	5' 0"

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/TH01/RO]

- GRADE OF CONCRETE: **M20**. (DESIGN MIX) (AS PER IS 456:2000)
- GRADE OF STEEL: **F5500D**. (AS PER IS 1786:2008)
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHOULD BE BROUGHT TO THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND APPROVED BY SITE ENGINEER, AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
- CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 - 1. SLAB: 40 MM (1.5")
 - 2. BEAM: 25 MM (1")
 - 3. ALL ROOF BEAM: 20 MM (3/4")
- REINFORCEMENT SYMBOL IS:-
 - A) Y OR O: HIGH YIELD STRENGTH BARS OF MINIMUM 500 MPa YIELD STRENGTH.
 - B) R OR Q: MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/mm²
- DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS
- PUMPING & ELECTRICAL PIPES (SLEEVES) NEED TO BE PLACED BEFORE CONCRETING.
- PROVIDE CHAIRS WHEREVER REQUIRED.
- ALL LOFT, SUNSHADE AND LINTEL LEVELS & LOCATIONS SHOULD BE REFERRED WITH ARCHITECT.
- LAPPING OR ANCHORAGE LENGTH SHALL BE AS FOLLOWS:
 - 1. SLAB: 50 X DIA OF BAR
 - 2. COLUMN: 50 X DIA OF BAR
- DRAWING STATUS: **GOOD FOR CONSTRUCTION**

INDICATES SLAB ROD AT TOP.

INDICATES SLAB ROD AT BOTTOM.

DESIGN LOADS:

1. FLOOR SLAB: 2.5 kN/m²
2. ROOF SLAB: 1.5 kN/m²

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



M-STRUCTURES
STRUCTURAL CONSULTANT
CONTACT: 9342942322
MOBILE: 9342942322
FOR QUERIES: 9342942322

CLIENT:

SURVEY NO.:

BLOCK NO.:

USE: NO. OF FLOORS:

LOCATION:

RESIDENT:

G + ONE

TITLE: STRUCTURAL DRAWING

FIRST FLOOR ROOF SLAB REINFORCEMENT

DESIGNED:

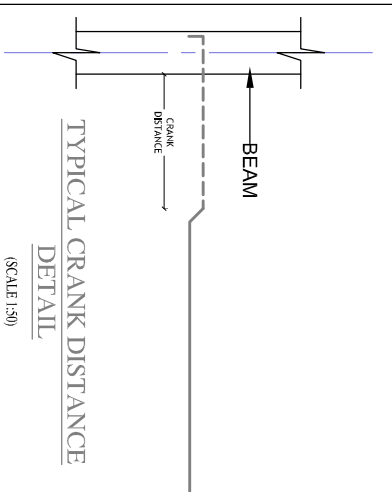
CHECKED:

DRAWN:

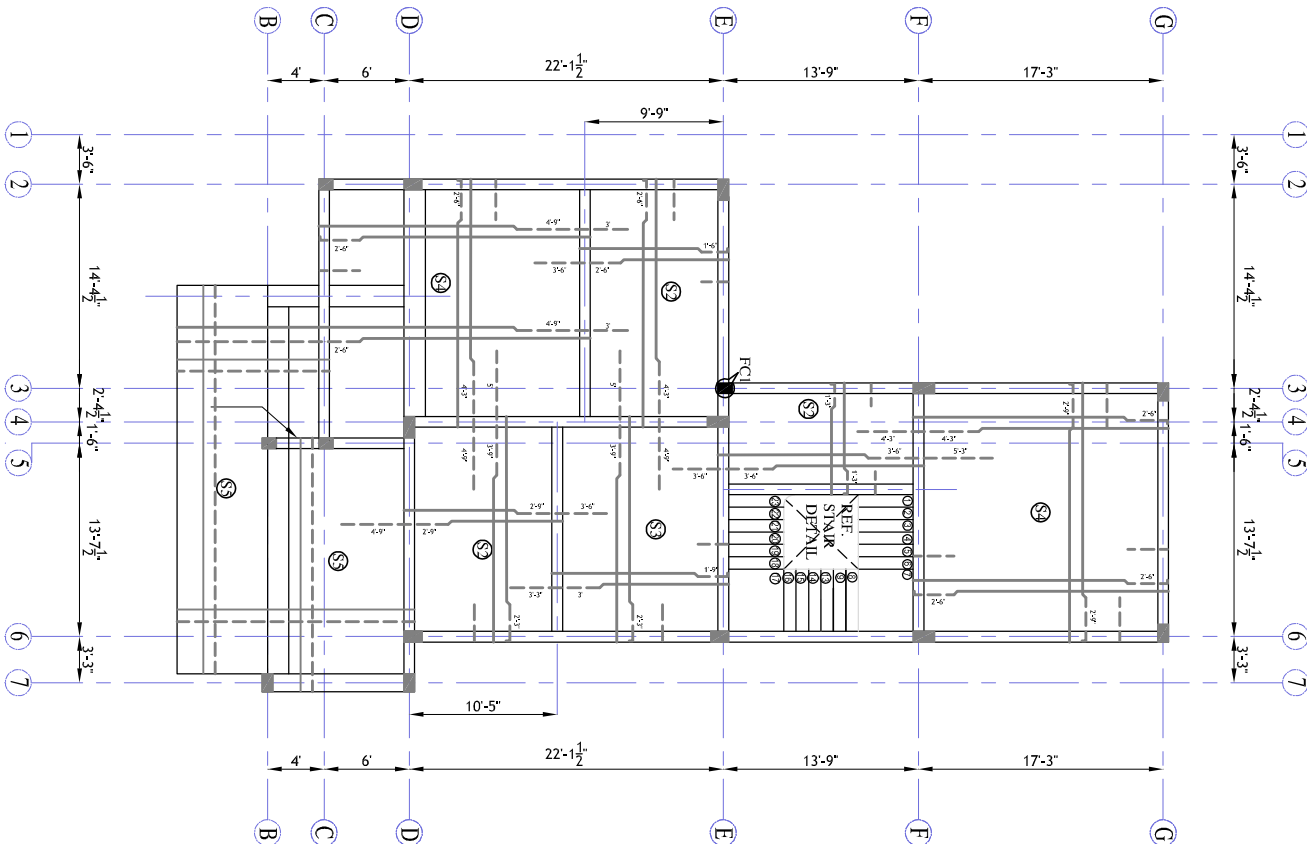
APPROVED:

PROJECT NO.:

DRAWING NO. ST/GFB01/RO



FIRST FLOOR ROOF SLAB REINFORCEMENT DETAILS



SCHEDULE OF SLABS

TYPE	THICK	SLAB REINFORCEMENT				SLAB TYPE	REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN			
		BOTTOM	TOP	BOTTOM	TOP		
S1	5"	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	ONE WAY	DOUBLE MAT
S2	5"	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	TWO WAY	REFER TYPICAL DETAIL
S3	5"	Y10 @ 5" C/C	Y10 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	TWO WAY	REFER TYPICAL DETAIL
S4	6"	Y10 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	TWO WAY	REFER TYPICAL DETAIL
S5	10"	Y12 @ 5" C/C	Y12 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	ONE WAY/CANTILEVER	DOUBLE MAT

NOTES

GENERAL NOTES & TECHNICAL NOTES REFER SHEET (S1)TN01/RO1

- GRADE OF CONCRETE:
M20. (DESIGN MIX) (AS PER IS 4463:2000)
- GRADE OF STEEL: **Fe500D** (AS PER IS 1786-2008)
- ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND APPROVED BY SITE ENGINEER.
5. ALL REINFORCEMENT STEELING AND CONCRETE MIXES CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - A) GRADE / PLINTH BEAM : 25 MM (1")
 - B) COLUMN : 40 MM (1-1/2")
 - C) ALL ROOF BEAM : 25 MM (1")
 - D) ALL ROOF SLAB : 20 MM (3/4")
7. REINFORCEMENT SYMBOL IS :-
 - A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 - B) R OR Q : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM².
8. DO NOT SCALE THE DRAWING. REFER FIGURED DIMENSIONS
9. LAPPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB = 60 X DIA OF BAR
 - B) COLUMN = 50 X DIA OF BAR

DRAWING STATUS: **GOOD FOR CONSTRUCTION**

--- INDICATES SLAB ROD AT TOP.
--- INDICATES SLAB ROD AT BOTTOM.

DESIGN LOADS:

- FLOOR SLAB - 4.5 N/MM²
- ROOF SLAB - 1.5 N/MM²

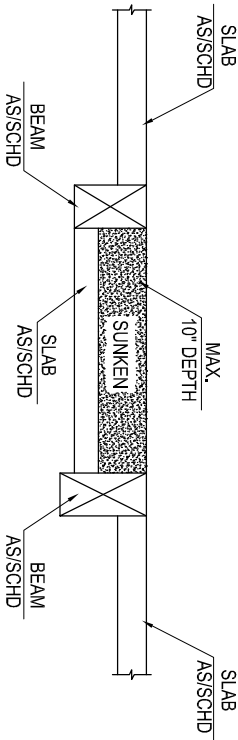
CONCRETE MIX

1 : 1.5 : 3

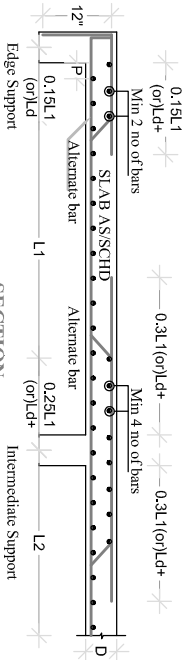
NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

NOTES:
LIGHT WEIGHT MATERIALS IS TO BE USED TO FILL THE SUNKEN AREA.

SUNKEN DETAILS



TYPICAL TWO WAY SLAB PLAN



SECTION

WHERE:
D-DEPTH OF SLAB AS/SCHD
S-SPACING OF MAIN BAR AS/SCHD
P-SHALL NOT EXCEED S/2
+DENOTES THAT 0.3L1 OR Ld+ WHICHEVER IS GREATER SHOULD BE PROVIDED
TYPICAL TWO WAY SLAB CURTAILMENT DETAILS

ADDITIONAL NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

FOR M ₂₀ GRADE OF CONCRETE & F ₂₅₀ GRADE OF STEEL		
DIAMETER OF BAR	LAP LENGTH	
8 mm	1' 6"	
10 mm	2' 0"	
12 mm	2' 6"	
16 mm	3' 3"	
20 mm	4' 0"	
25 mm	5' 0"	

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/IN01/RO)

1. GRADE OF CONCRETE :
M20 - (DESIGN MIX) (AS PER IS 456:2000)

2. GRADE OF STEEL : **F₂₅₀SD** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT TO THE CONSULTANT ENGINEER'S ATTENTION IMMEDIATELY.

4. DO NOT CAST ANY C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.

6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

A) COLUMN : 40 MM (1-1/2")
B) FLOOR BEAM : 25 MM (1")
C) ALL ROOF SLAB : 20 MM (3/4")

7. REINFORCEMENT SYMBOL IS :-
A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM²,
B) S - STANDARD STEEL OF MINIMUM YIELD STRENGTH IS 460 N/MM² (AS PER IS 1786-2008)

8. DO NOT SCALE THE DRAWING, REFER FIGURED DIMENSIONS.
9. PUMPING & ELECTRICAL PIPES (SLEEVES) NEED TO BE PLACED BEFORE CONCRETING.

10. PROVIDE CHAIRS WHEREVER REQUIRED.

11. ALL LOFT, SUNSHADE AND LINTEL LEVELS & LOCATIONS SHOULD BE REFERRED WITH ARCHITECT.

12. LAPING OR WELDING LENGTH OF REINFORCEMENT SHALL BE AS FOLLOWS:-
A) COLUMN : 50 X DIA. OF BAR
B) COLUMN : 50 X DIA. OF BAR

DRAWING STATUS : **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB : 2.5 KNS/M²
2. ROOF SLAB : 1.5 KNS/M²

CONCRETE MIX
1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



STRUCTURAL CONSULTANT
MOBILE : 92450945808
FOR QUERIES: 92457001792

CLIENT: _____ SURVEY NO.: _____

USE: _____ BLOCK NO.: _____

RESIDENT: _____ NO. OF FLOORS: _____ LOCATION: _____

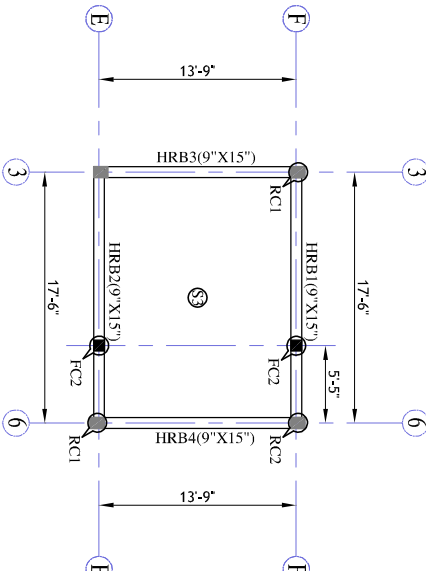
TITLE: **STRUCTURAL DRAWING**

HEAD ROOM ROOF BEAM & SLAB LAYOUT

DESIGNED: _____ CHECKED: _____ DATE: _____

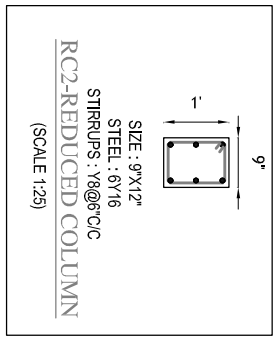
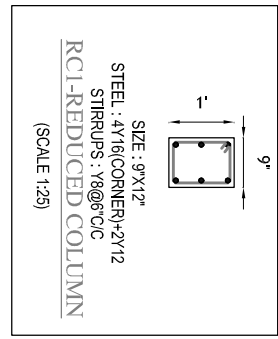
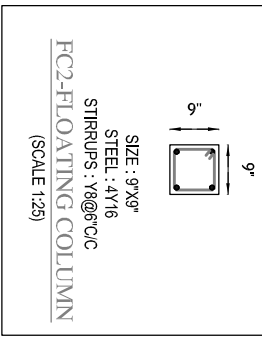
DRAWN: _____ APPROVED: _____ SCALE: **1 : 100, 50**

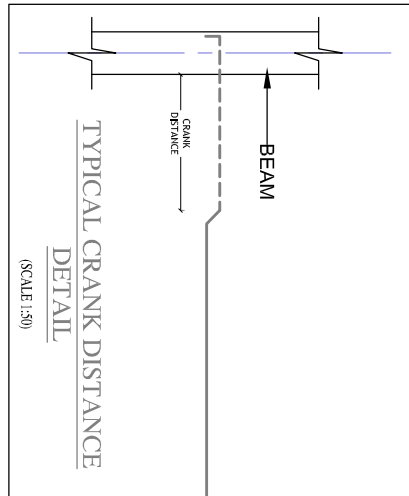
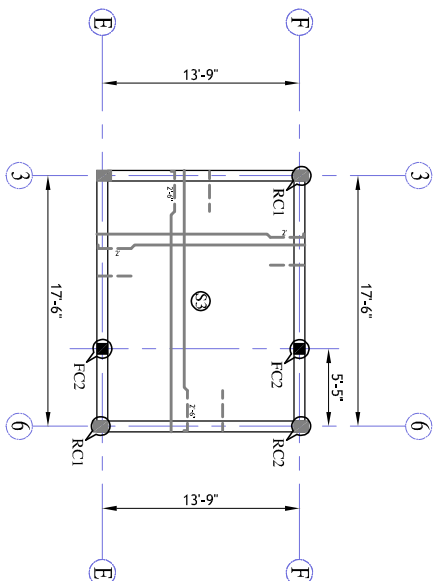
PROJECT NO.: _____ DRAWING NO.: **ST/HRB01/RO**



HEAD ROOM ROOF BEAM & SLAB LAYOUT

NOTE:
FC - FLOATING COLUMN FROM THIS LEVEL.
RC - REDUCED COLUMN ABOVE FF ROOF LVL.





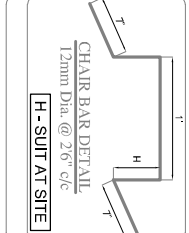
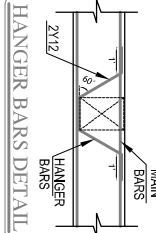
SCHEDULE OF SLABS					
TYPE	THICK	SLAB REINFORCEMENT			
		ALONG SHORT SPAN		ALONG LONG SPAN	
		BOTTOM	TOP	BOTTOM	TOP
S1	5"	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C
S2	5"	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C
S3	5"	Y10 @ 5" C/C	Y10 @ 5" C/C	Y8 @ 5" C/C	Y8 @ 5" C/C
S4	6"	Y10 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C
S5	10"	Y12 @ 5" C/C	Y12 @ 5" C/C	Y10 @ 5" C/C	Y10 @ 5" C/C

SLAB TYPE		REMARKS
ONE WAY	TWO WAY	
DOUBLE END	REFER TYPICAL DETAIL	
TWO WAY	REFER TYPICAL DETAIL	
TWO WAY	REFER TYPICAL DETAIL	
CANTILEVER	DOUBLE END	

ADDITIONAL NOTES

MINIMUM LAP LENGTH FOR BEAM AND SLAB (60D) SHOULD BE AS FOLLOWS:

DIAMETER OF BAR	LAP LENGTH
8 mm	1' 6"
10 mm	2' 0"
12 mm	2' 6"
16 mm	3' 5"
20 mm	4' 0"
25 mm	5' 0"



NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET IS/T/1001/ROJ

1. GRADE OF CONCRETE : **M20** (DESIGN MIX) (AS PER IS 456:2000)
2. GRADE OF STEEL : **F630SD** (AS PER IS 1798-2008)
3. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. ADDITION OF PROTECTING SUTTERING AND CONCRETE RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
- A) COLUMN : 40 MM (1-1/2")
- B) FLOOR BEAM : 25 MM (1")
- C) ALL ROOF SLAB : 20 MM (3/4")
7. REINFORCEMENT SYMBOL IS :-
- A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
- B) S : 250 N/MM² STRENGTH IS 250 N/MM².
8. DO NOT SCALE THE DRAWING. REFER FIGURED DIMENSIONS.
9. PLUMBING & ELECTRICAL PIPES (GLEVES) NEED TO BE PLACED BEFORE CONCRETING.
10. PROVIDE CHAIRS WHEREVER REQUIRED.
11. ALL LIFT, SHADE AND LIFT LEVELS & LOCATIONS SHOULD BE REFERRED WITH ARCHITECT.
12. LAPPING OR ANCHORAGE LENGTH
- A) COLUMN AND SLAB = 50 X DIA OF BAR
- B) COLUMN AND SLAB = 50 X DIA OF BAR
- DRAWING STATUS : **GOOD FOR CONSTRUCTION**

--- INDICATES SLAB ROD AT TOP.
--- INDICATES SLAB ROD AT BOTTOM.

DESIGN LOADS:

1. FLOOR SLAB : 2.25 N/KSQM
2. ROOF SLAB : 1.5 N/KSQM

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



STRUCTURAL CONSULTANT
MOBILE: 98460945808
FOR QUERIES: 934370201725

CLIENT: _____ SURVEY NO.: _____

RESIDENT: _____ NO. OF FLOORS: _____ BLOCK NO.: _____

USE: _____ G + ONE _____ LOCATION: _____

STRUCTURAL DRAWING
FIRST FLOOR ROOF SLAB DETAILS

DESIGNED: _____ CHECKED: _____ DATE: _____

DRAWN: _____ APPROVED: _____ SCALE: **1 : 100, 50**

PROJECT NO: _____ DRAWING NO: **ST/HR03/RO**

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/NO1/NO1/RO)

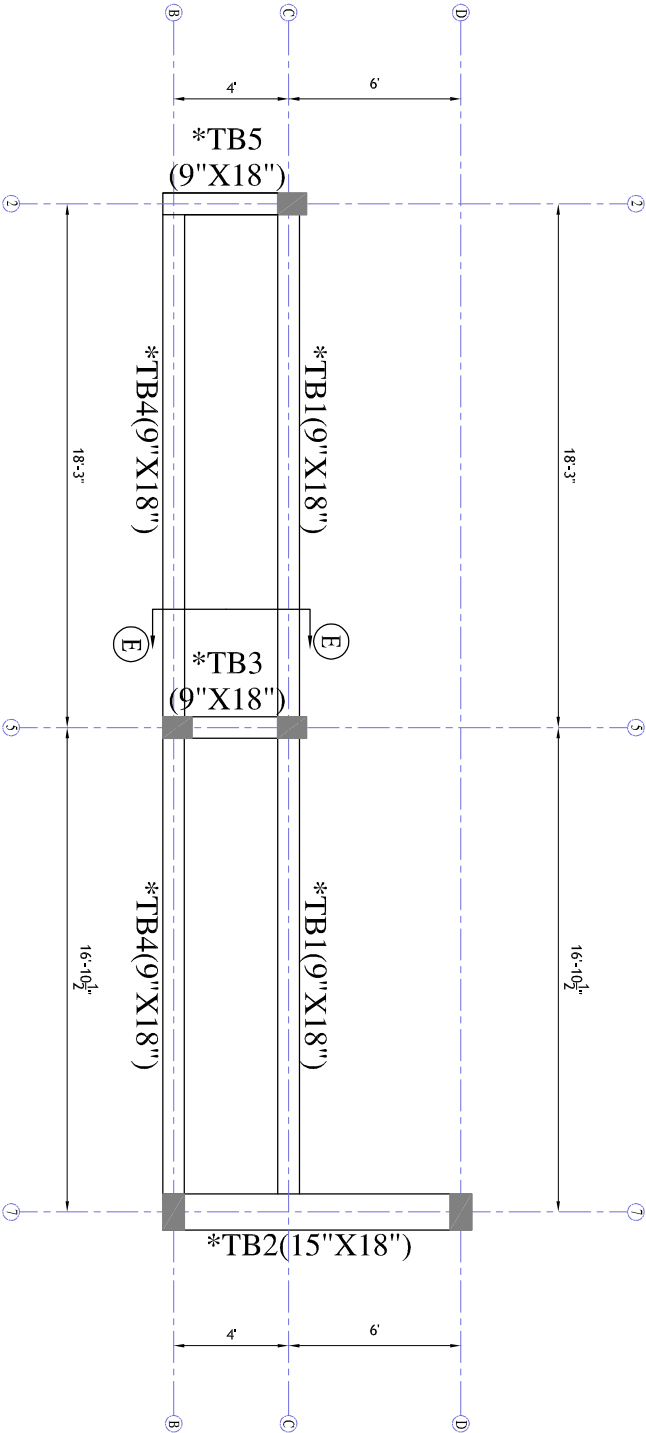
1. GRADE OF CONCRETE: **M20**. (DESIGN MIX.) (AS PER IS 456:2000)
2. GRADE OF STEEL: **F₅₅₀0D** (AS PER IS 1786-2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
5. THE CONSULTANT ENGINEER'S RESPONSIBILITY AND CONCRETE MIX DESIGNATOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
- A) GRADE / FINISH BEAM 25 MM (1")
 - B) FOOTING / PILE CAP BOTTOM 50 MM (2")
 - C) FOOTING / PILE CAP TOP 25 MM (1")
 - D) FOOTING / PILE CAP SIDE 25 MM (1")
 - E) ALL ROOF BEAM 25 MM (1")
 - F) ALL ROOF SLAB 20 MM (3/4")
 - G) R.C.C. WALL (SHEAR WALL, SUMP) 40 MM (1-1/2")
 - H) PILE SIDE 30 MM (1-1/4")
 - I) COVER SLAB 25 MM (1")
 - J) COVER SLAB 25 MM (1")
7. REINFORCEMENT SYMBOL IS :-
- A) Y OR O HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 - B) R OR Q MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²
8. DO NOT SCALE THE DRAWING. REFER REQUIRED
9. LAPPING OR ANCHORAGE LENGTH
- A) BEAM AND SLAB = 60 X DIA OF BAR
 - B) COLUMN = 48 X DIA OF BAR

DESIGN LOADS:

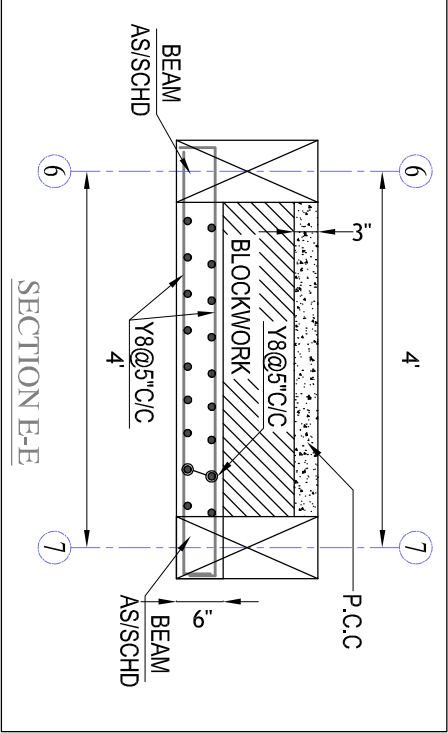
1. FLOOR SLAB - 2.5 N/MM²
2. ROOF SLAB - 1.5 N/MM²

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE

PARAPET FRONT SIDE PROJECTION LAYOUT



NOTE:
1. PROVIDE *BEAM AS INVERTED BEAM.



CLIENT:

SURVEY NO.:

USE:

NO. OF FLOORS:

LOCATION:

BLOCK NO.:

RESIDENT:

G+ONE

TITLE:

STRUCTURAL DRAWING
PERGOLA BEAM DETAIL - I

DESIGNED:

CHECKED:

DATE:

DRAWN:

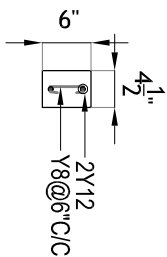
APPROVED:

SCALE:

1 : 50

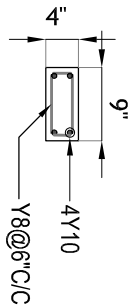
PROJECT NO.:

ST / TB02 / RO



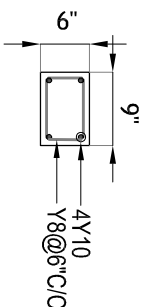
FOR 4.5" THICK WALL

OPENING - 4' TO 6'



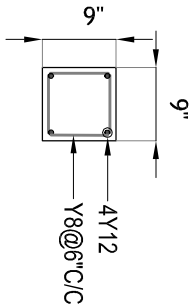
FOR 9" THICK WALL

OPENING - UPTO 4'



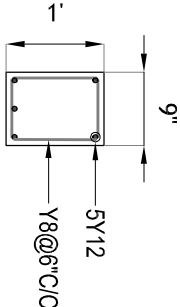
FOR 9" THICK WALL

OPENING - 4' TO 6'



FOR 9" THICK WALL

OPENING - 6' TO 8'



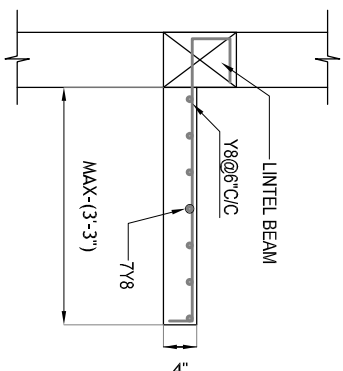
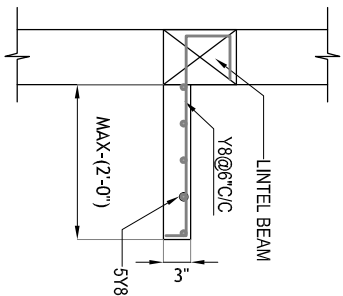
FOR 9" THICK WALL

OPENING - 8' TO 10'

SCALE (1:15)

NOTE :

ALL LOFT, SUNSHADE LOCATION & LEVELS SHOULD BE REFERRED WITH ARCHITECT DRAWINGS .



TYPICAL DETAIL OF FLAT SUNSHADE

SCALE (1:20)

LAPPING LENGTH = (50XD)

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/NO1/RO)

1. GRADE OF CONCRETE :

M25 - (DESIGN MIX) (AS PER IS 456:2000)

2. GRADE OF STEEL - **Fe500D** (AS PER IS 7789:2008)

3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.

4. DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.

DESIGN OF PROPPING, SHUTTERING AND CONCRETE RESPONSIBILITY.

5. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

- A) GRADE / PLINTH BEAM 25 MM (1")
- B) FOOTING / PILE CAP BOTTOM 50 MM (2")
- C) COLUMN / PILE CAP SIDE 40 MM (1-1/2")
- D) FOOTING / PILE CAP SIDE 25 MM (1")
- E) WALL / PILE CAP SIDE 25 MM (1")
- F) WALL / PILE CAP SIDE 25 MM (1")
- G) R.C.C WALL (SHEAR WALL, SWP) 40 MM (1-1/2")
- H) PILE SIDE 40 MM (2")
- I) COVER BOTTOM SLAB 40 MM (1-1/2")
- J) COVER SLAB 25 MM (1")

7. REINFORCEMENT SYMBOL IS :

8. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

9. LAPPING OR ANCHORAGE LENGTH

10. MINIMUM YIELD STRENGTH IS 500 N/MM²

11. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

12. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

13. LAPPING OR ANCHORAGE LENGTH

14. MINIMUM YIELD STRENGTH IS 500 N/MM²

15. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

16. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

17. LAPPING OR ANCHORAGE LENGTH

18. MINIMUM YIELD STRENGTH IS 500 N/MM²

19. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

20. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

21. LAPPING OR ANCHORAGE LENGTH

22. MINIMUM YIELD STRENGTH IS 500 N/MM²

23. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

24. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

25. LAPPING OR ANCHORAGE LENGTH

26. MINIMUM YIELD STRENGTH IS 500 N/MM²

27. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

28. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

29. LAPPING OR ANCHORAGE LENGTH

30. MINIMUM YIELD STRENGTH IS 500 N/MM²

31. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

32. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

33. LAPPING OR ANCHORAGE LENGTH

34. MINIMUM YIELD STRENGTH IS 500 N/MM²

35. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

36. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

37. LAPPING OR ANCHORAGE LENGTH

38. MINIMUM YIELD STRENGTH IS 500 N/MM²

39. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

40. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

41. LAPPING OR ANCHORAGE LENGTH

42. MINIMUM YIELD STRENGTH IS 500 N/MM²

43. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

44. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

45. LAPPING OR ANCHORAGE LENGTH

46. MINIMUM YIELD STRENGTH IS 500 N/MM²

47. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

48. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

49. LAPPING OR ANCHORAGE LENGTH

50. MINIMUM YIELD STRENGTH IS 500 N/MM²

51. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

52. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

53. LAPPING OR ANCHORAGE LENGTH

54. MINIMUM YIELD STRENGTH IS 500 N/MM²

55. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

56. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

57. LAPPING OR ANCHORAGE LENGTH

58. MINIMUM YIELD STRENGTH IS 500 N/MM²

59. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

60. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

61. LAPPING OR ANCHORAGE LENGTH

62. MINIMUM YIELD STRENGTH IS 500 N/MM²

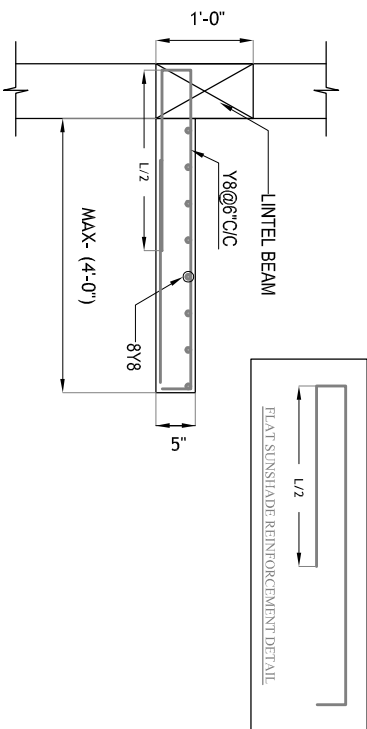
63. B/R OR O WILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²

64. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS

65. LAPPING OR ANCHORAGE LENGTH

TYPICAL DETAIL OF FLAT SUNSHADE

SCALE (1:20)



NOTE :

DE SHUTTERING OF LOFT, SUNSHADE SHOULD BE DONE AFTER COMPLETION OF FLOOR ROOF LEVEL CONCRETING.

CONCRETE MIX

1 : 1.5 : 3

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE

DESIGN LOADS:

1. FLOOR SLAB - 2.5 N/MSQM

2. ROOF SLAB - 1.5 N/MSQM



CLIENT:

SURVEY NO:

USE:

BLOCK NO:

NO. OF FLOORS:

LOCATION:

RESIDENT:

G + ONE

TITLE:

STRUCTURAL DRAWING

TYPICAL LINTEL AND SUNSHADE DETAIL

DESIGNED:

CHECKED:

DATE:

DRAWN:

APPROVED:

SCALE:

1 : 20

PROJECT NO:

DRAWING NO:

ST/LS01/RO

NOTE:
1.REFER ARCH DRAWING FOR MID LANDING LEVELS
2.REFER ARCH DRAWING FOR TREAD AND RISER DIMENSIONS

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/MD/NO/NO)

1.GRADE OF CONCRETE :

M20. (DESIGN MIX.) (AS PER IS 456-2000)

2.GRADE OF STEEL - **Fas500D** (AS PER IS 1786-2008)

3.ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.

4.DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.

5.DESIGN OF PROPPING, SHUTTERING AND CONCRETE RESPONSIBILITY FOR OR CLIENT OR SITE PERSON RESPONSIBILITY.

6.CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:

A) GRADE / PLINTH BEAM

B) FOOTING / PILE CAP BOTTOM

C) COLUMN

D) BEAM / JOINT / ONE SIDE

E) ALL ROOF BEAM

F) ALL ROOF SLAB

G) R.C.C. WALL (SHEAR WALL SWMP)

H) R.C.C. WALL (SHEAR WALL SWMP)

I) COVER SLAB

J) COVER SLAB

K) COVER SLAB

L) COVER SLAB

M) COVER SLAB

N) COVER SLAB

O) COVER SLAB

P) COVER SLAB

Q) COVER SLAB

R) COVER SLAB

S) COVER SLAB

T) COVER SLAB

U) COVER SLAB

V) COVER SLAB

W) COVER SLAB

X) COVER SLAB

Y) COVER SLAB

Z) COVER SLAB

AA) COVER SLAB

AB) COVER SLAB

AC) COVER SLAB

AD) COVER SLAB

AE) COVER SLAB

AF) COVER SLAB

AG) COVER SLAB

AH) COVER SLAB

AI) COVER SLAB

AJ) COVER SLAB

AK) COVER SLAB

AL) COVER SLAB

AM) COVER SLAB

AN) COVER SLAB

AO) COVER SLAB

AP) COVER SLAB

AQ) COVER SLAB

AR) COVER SLAB

AS) COVER SLAB

AT) COVER SLAB

AU) COVER SLAB

AV) COVER SLAB

AW) COVER SLAB

AX) COVER SLAB

AY) COVER SLAB

AZ) COVER SLAB

BA) COVER SLAB

BB) COVER SLAB

BC) COVER SLAB

BD) COVER SLAB

BE) COVER SLAB

BF) COVER SLAB

BG) COVER SLAB

BH) COVER SLAB

BI) COVER SLAB

BJ) COVER SLAB

BK) COVER SLAB

BL) COVER SLAB

BM) COVER SLAB

BN) COVER SLAB

BO) COVER SLAB

BP) COVER SLAB

BQ) COVER SLAB

BR) COVER SLAB

BS) COVER SLAB

BT) COVER SLAB

BU) COVER SLAB

BV) COVER SLAB

BW) COVER SLAB

DESIGN LOADS:

1. FLOOR SLAB - 2.5 KNS/M²

2. ROOF SLAB - 1.5 KNS/M²

3. WIND LOAD - AS PER IS 875

4. SEISMIC LOAD - AS PER IS 1893

5. LIVE LOAD - AS PER IS 800

6. IMPACT LOAD - AS PER IS 800

7. REINFORCEMENT SYMBOL IS:-

A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 NMM².

B) R OR Q - MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 NMM².

8. DO NOT SCALE THE DRAWING-REFER FIGURED DIMENSIONS.

9. LAPSPING OR ANCHORAGE LENGTH

A) BEAM AND SLAB = 48 X DIA OF BAR

B) COLUMN = 48 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

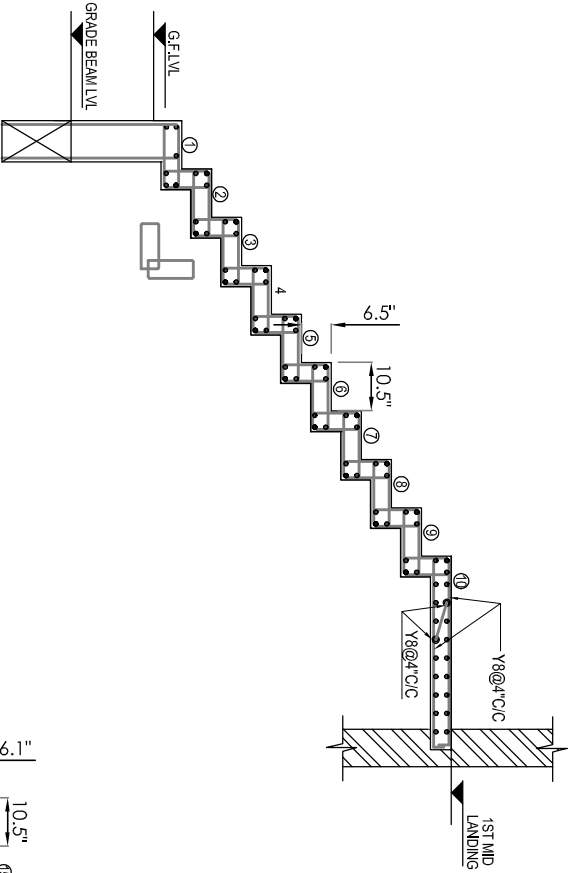
NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



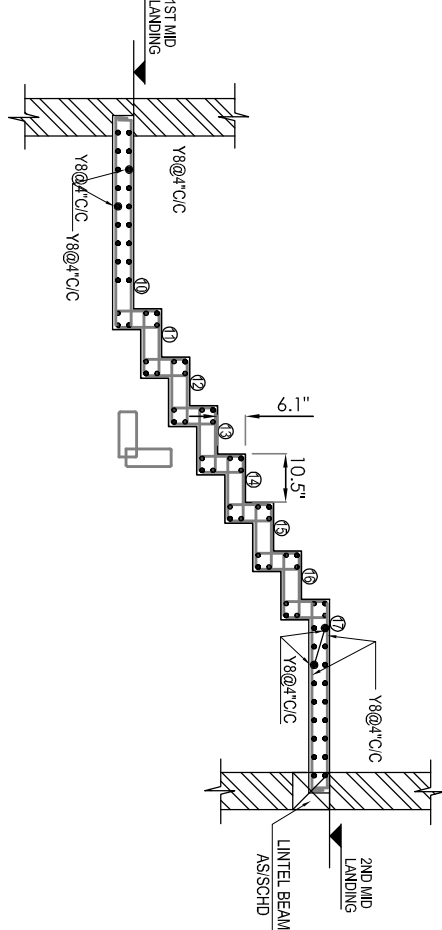
CLIENT: _____
PROJECT NO: _____
BLOCK NO: _____
DATE: _____
SCALE: 1:25
PROJECT NO: ST/SC01/R0

USE: RESIDENT
NO. OF FLOORS: G + ONE
LOCATION: _____
TITLE: STRUCTURAL DRAWING
STAIRCASE DETAIL-1

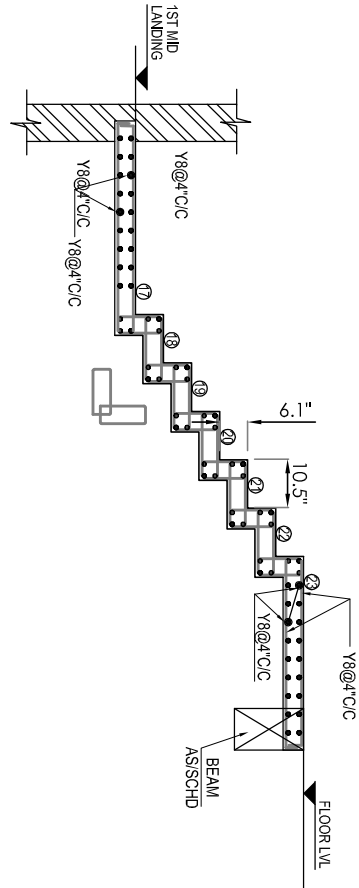
DESIGNED: _____
CHECKED: _____
DATE: _____
DRAWN: _____
APPROVED: _____
SCALE: 1:25
PROJECT NO: ST/SC01/R0



CROSS SECTION OF FLIGHT-1



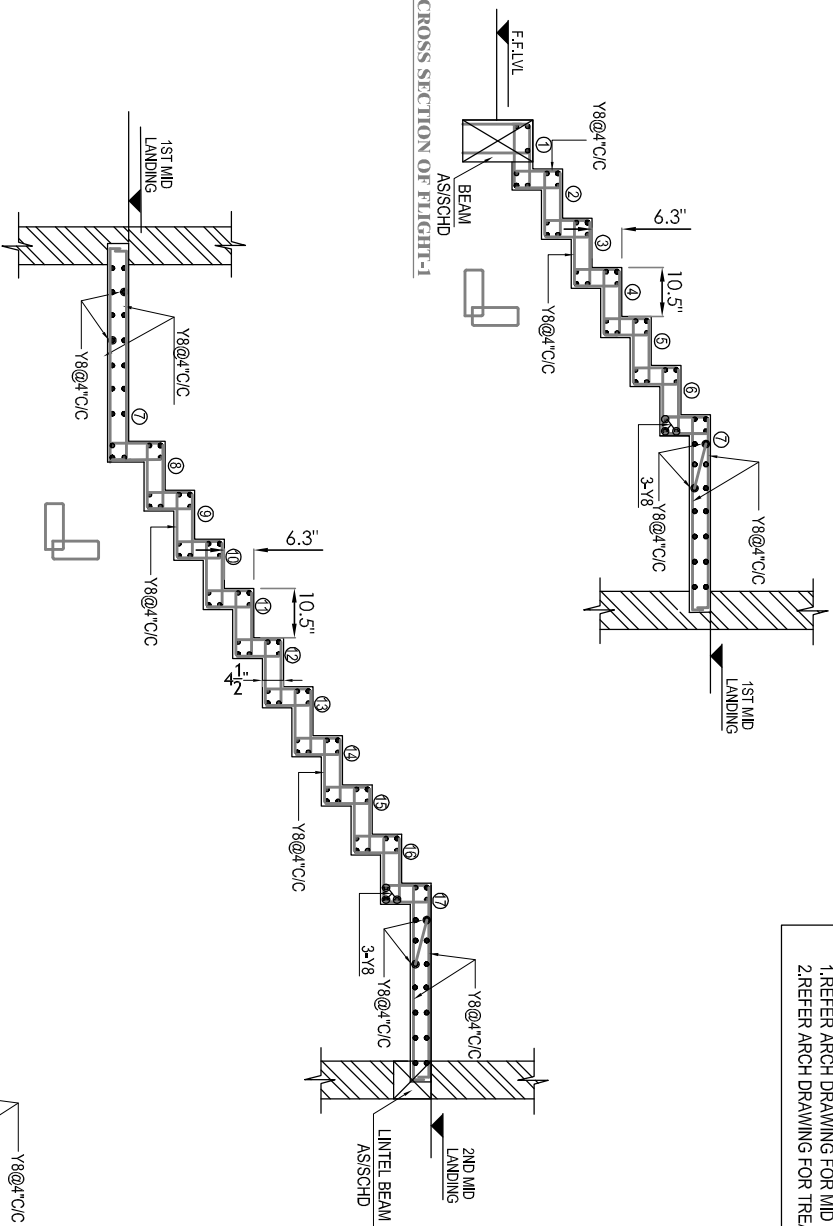
CROSS SECTION OF FLIGHT-2



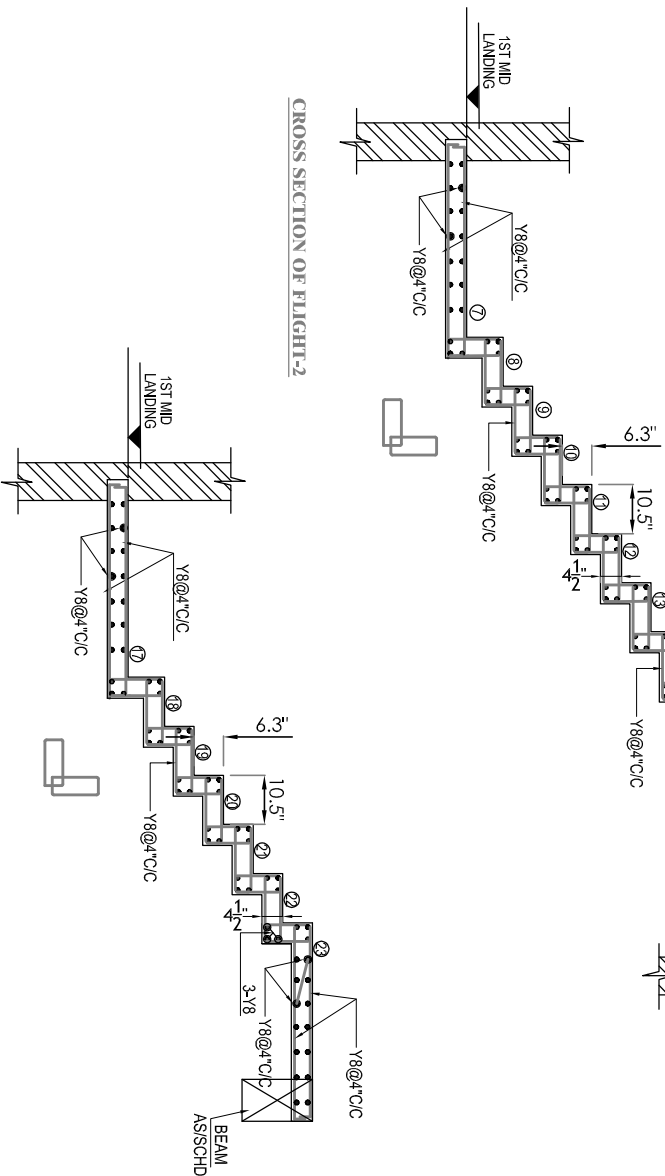
CROSS SECTION OF FLIGHT-3

- NOTE:
- 1.REFER ARCH DRAWING FOR MID LANDING LEVELS
 - 2.REFER ARCH DRAWING FOR TREAD AND RISER DIMENSIONS

CROSS SECTION OF FLIGHT-1



CROSS SECTION OF FLIGHT-2



CROSS SECTION OF FLIGHT-2

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (ST/TON/RO)

- 1.GRADE OF CONCRETE : **M20** (DESIGN MIX) (AS PER IS 456-2000)
- 2.GRADE OF STEEL - **Fe500D** (AS PER IS 7798-2008)
- 3.ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
- 4.DO NOT CAST ANY R.C.C WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER.
- 5.DESIGN OF PROPPING, SHUTTLING AND CONCRETE RESPONSIBILITY.
- 6.CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
 - A) GRADE / PLINTH BEAM : 25 MM (1")
 - B) FOOTING / PILE CAP BOTTOM : 50 MM (2")
 - C) COLUMN : 40 MM (1.5")
 - D) BEAM / PILE CAP SIDE : 25 MM (1")
 - E) ALL ROOF BEAM : 25 MM (1")
 - F) ALL ROOF SLAB : 20 MM (3/4")
 - G) R.C.C WALL (SHEAR WALL,SUMP)40 MM (1-1/2")
 - H) PILE SUMP BOTTOM SLAB : 30 MM (1")
 - I) SUMP COVER SLAB : 25 MM (1")
7. REINFORCEMENT SYMBOLS IS :
 - A) Y OR O : HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 N/MM².
 - B) R OR O : MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 N/MM²
 - 8. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS.
 - 9. LAPPING OR ANCHORAGE LENGTH
 - A) BEAM AND SLAB = 60 X DIA OF BAR
 - B) COLUMN = 48 X DIA OF BAR

DRAWING STATUS	GOOD FOR CONSTRUCTION
----------------	-----------------------

DESIGN LOADS:

1. FLOOR SLAB = 2.25 N/M² K
2. ROOF SLAB = 1.25 N/M² K

NOTES: THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE



CLIENT:

SURVEY NO.:

USE:

BLOCK NO.:

RESIDENT

LOCATION:

TITLE:

STRUCTURAL DRAWING
STAIRCASE DETAIL-2

DESIGNED:

CHECKED:

DRAWN:

APPROVED:

PROJECT NO.:

SCALE: 1 : 25

DRAWING NO.:

ST/SC02/RO

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET (S17TN01)RO1

1. GRADE OF CONCRETE: **M20** - (DESIGN MIX) (AS PER IS 456:2000)
2. GRADE OF STEEL: **Fe500D** (AS PER IS 1786:2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHALL BE CORRECTED BY CONSULTANT ENGINEER NOTICE BEFORE EXECUTION
4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED AND CONFIRMED BY SITE ENGINEER
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-
7. REINFORCEMENT SYMBOL IS :-
8. DO NOT SCALE THE DRAWING, REFER FIGURED DIMENSIONS FOR ANCHORAGE LENGTH
9. LAYERS AND SLAB = 60X DIA OF BAR
10. BEAM AND SLAB = 48X DIA OF BAR

11. FLOOR SLAB - 25 INNSCM
12. ROOF SLAB - 1.5 INNSCM
13. REINFORCEMENT SYMBOL IS :-
14. ANY OR OTHER STEEL REINFORCEMENT BARS OF MINIMUM YIELD STRENGTH IS 250 MMMP
15. DO NOT SCALE THE DRAWING, REFER FIGURED DIMENSIONS FOR ANCHORAGE LENGTH
16. LAYERS AND SLAB = 60X DIA OF BAR
17. BEAM AND SLAB = 48X DIA OF BAR
18. DRAWING STATUS: **GOOD FOR CONSTRUCTION**

DESIGN LOADS:

1. FLOOR SLAB - 25 INNSCM
2. ROOF SLAB - 1.5 INNSCM

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



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STRUCTURAL CONSULTANT
MSTRUCTURE@GMAIL.COM
FOR QUERIES: 93420424522
9345700173

CLIENT:

SURVEY NO:

USE:

BLOCK NO:

RESIDENT: **G + ONE** LOCATION:

TITLE:

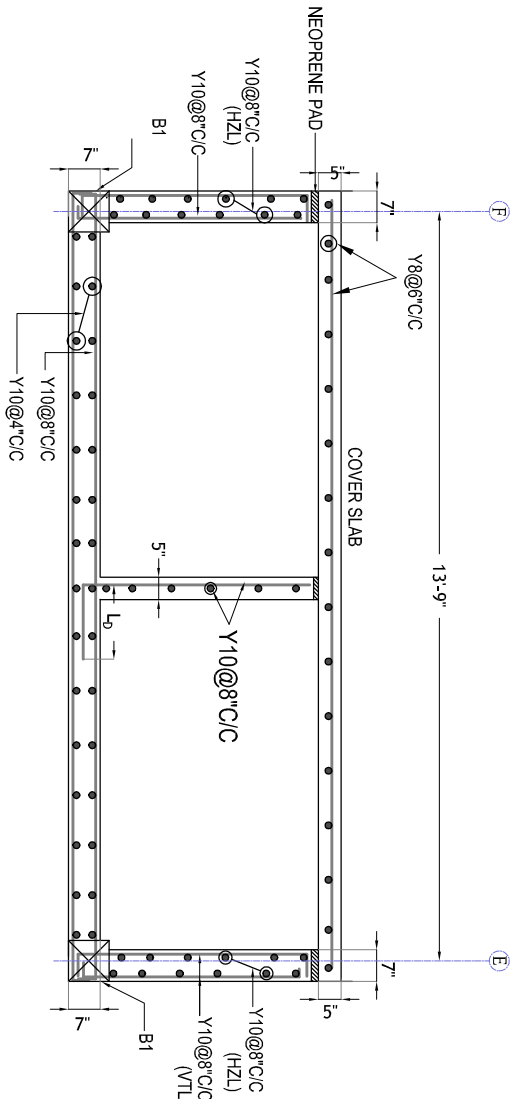
STRUCTURAL DRAWING
OVER HEAD TANK DETAIL

DESIGNED: **CHECKED:** DATE:

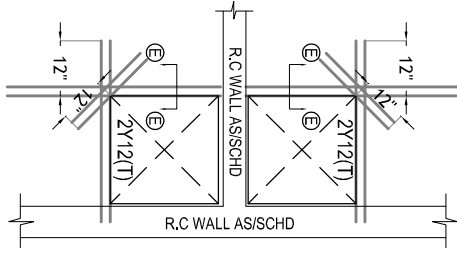
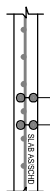
DRAWN: **APPROVED:** SCALE: **1 : 25**

PROJECT NO:

DRAWING NO: **ST/OHT01/R0**

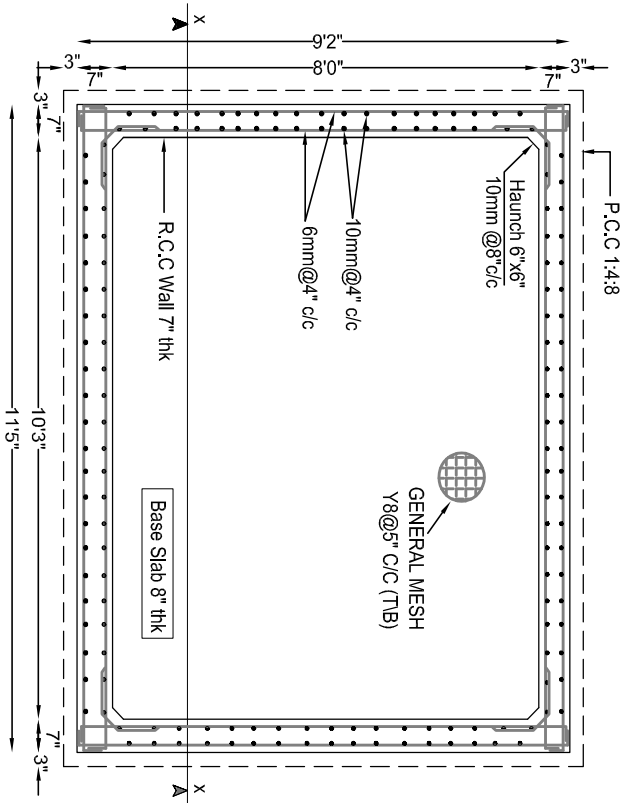


SECTION E-E

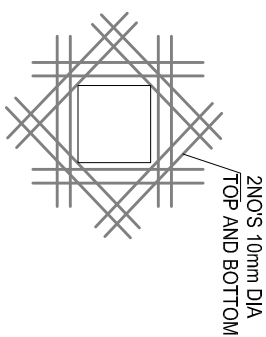
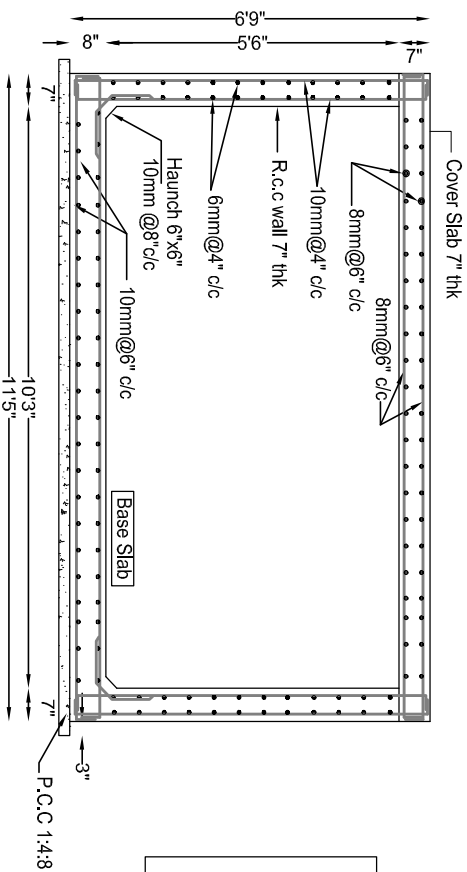


TYP. STEEL DETAIL FOR TANK OPENING

PLAN OF OVER HEAD TANK



SUMP BASE SLAB PLAN



TYP. DETAIL OF REINFORCEMENT
AROUND MANHOLE OPENING

NOTES:

1. PROVIDE PIPES AND SLEEVES AS PER (MEP) REQUIREMENTS BEFORE CONCRETING.
2. WATER AND RUST PROOF CHEMICALS SHOULD BE ADDED FOR SUMP CONSTRUCTION.
3. CONSTRUCTION OF SUMP AND SEPTIC TANK SHOULD BE COMPLETED BEFORE GRADE BEAM/PLINTH BEAM CONSTRUCTION.

NOTES

GENERAL NOTES & TECHNICAL NOTES
REFER SHEET [ST/NO1/RO]

1. GRADE OF CONCRETE :
M20- (DESIGN MIX.) (AS PER IS 456:2000)
2. GRADE OF STEEL - **Fe500D** (AS PER IS 1786:2008)
3. ANY DISCREPANCY FOUND IN THESE DRAWING SHOULD BE BROUGHT THE CONSULTANT ENGINEER NOTICE BEFORE EXECUTION.
4. THE CONSULTANT ENGINEER'S WORK SHALL BE CHECKED AND CONFIRMED BY SITE ENGINEER.
5. DESIGN OF PROPPING, SHUTTERING AND CONCRETE MIX IS CONTRACTOR OR CLIENT OR SITE PERSON RESPONSIBILITY.
6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS:-

- A) GRADE / PLINTH BEAM : 25 MM (1")
- B) FOOTING / FILE CAP BOTTOM : 50 MM (2")
- C) COLUMN : 40 MM (1-1/2")
- D) FOOTING / FILE CAP SIDE : 25 MM (1")
- E) GRADE / PLINTH BEAM : 25 MM (1")
- F) PL. ROOF SLAB : 20 MM (3/4")
- G) R.C.C WALL (SHEAR WALL, SUMP) 40 MM (1-1/2")
- H) FILE SIDE OM SLAB : 50 MM (2")
- I) COVER SLAB : 25 MM (1")

7. REINFORCEMENT SYMBOLS :-

- A) Y OR O - HIGH YIELD STRENGTH BARS OF MINIMUM YIELD STRENGTH IS 500 MMN.
- B) R OR Q - MILD STEEL OF MINIMUM YIELD STRENGTH IS 250 MMN.
8. DO NOT SCALE THE DRAWING REFER FIGURED DIMENSIONS
9. LAPPING OR ANCHORAGE LENGTH

- A) BEAM AND SLAB = 60 X DIA OF BAR
- B) COLUMN = 48 X DIA OF BAR

DRAWING STATUS : GOOD FOR CONSTRUCTION

DESIGN LOADS:

1. FLOOR SLAB - 2.5 KNS/M²
2. ROOF SLAB - 1.5 KNS/M²

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



STRUCTURAL CONSULTANT
MOBILE : 93604 3808
FOR QUERIES : 9345700173

CLIENT: SURVEY NO: BLOCK NO:

USE: NO. OF FLOORS: LOCATION: RESIDENT G + ONE

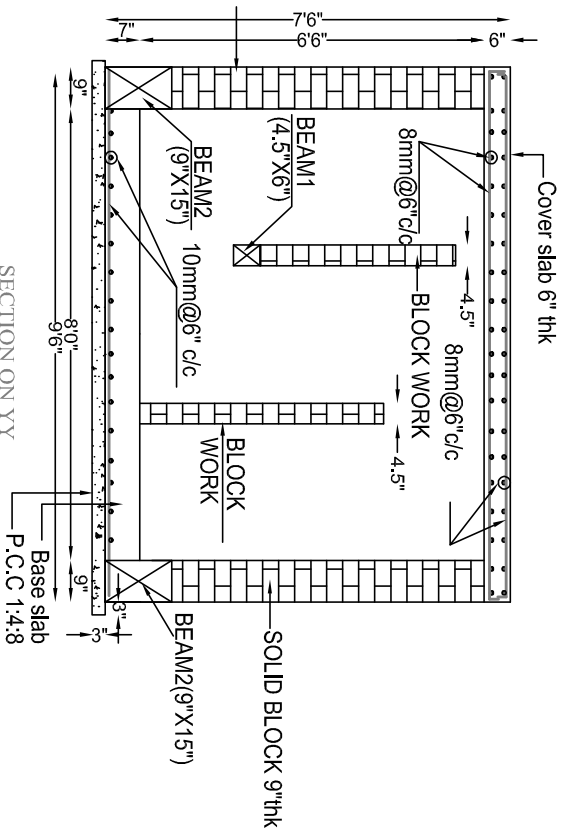
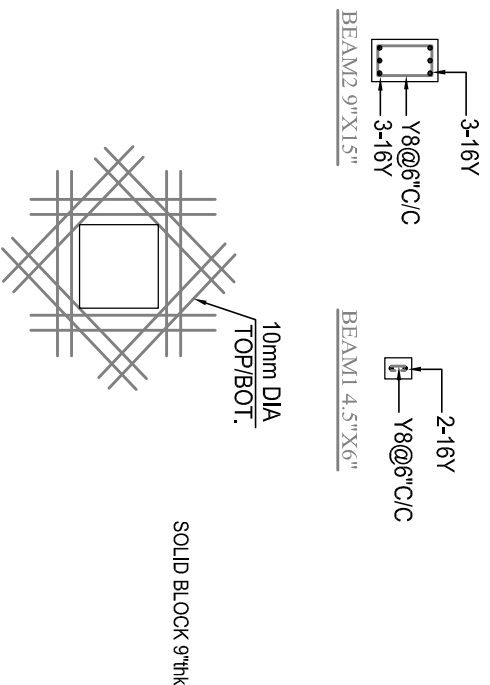
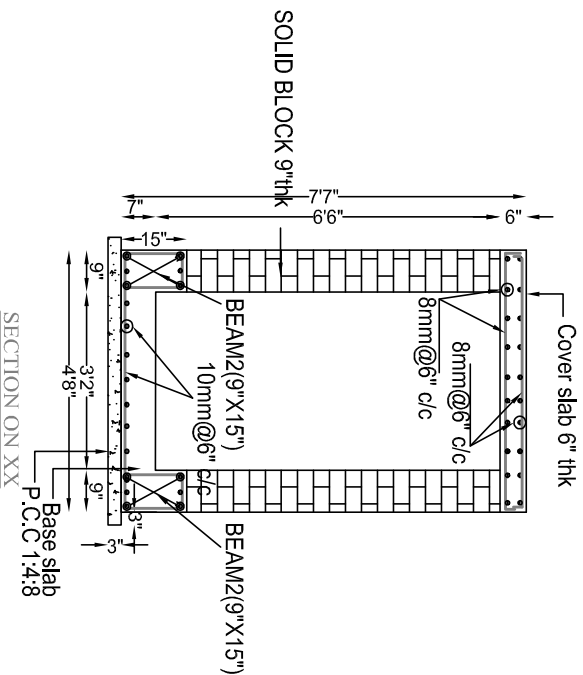
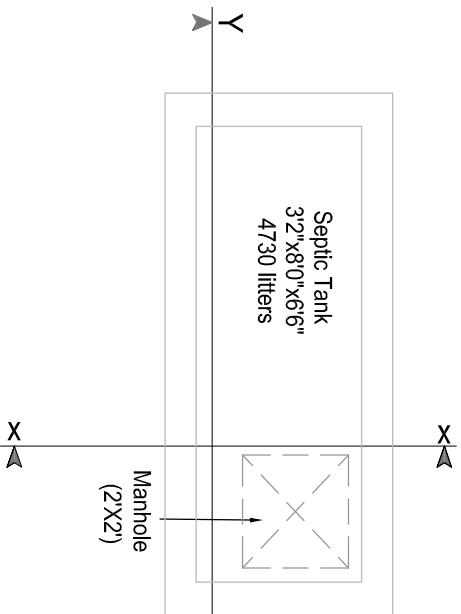
TITLE: STRUCTURAL DRAWING
TYPICAL DETAIL OF SUMP

DESIGNED: CHECKED: DATE:

DRAWN: APPROVED: SCALE: 1 : 25

PROJECT NO: DRAWING NO: ST/SM01/RO

NOTE:
1" INTERNAL PLASTERING SHOULD BE DONE IN
BLOCK WORK AS PER STANDARD.



NOTES

GENERAL NOTES & TECHNICAL NOTES

REFER SHEET [ST/TO1/RO1]

1. GRADE OF CONCRETE :

M20 - (DESIGN MIX) (AS PER IS 456:2000)

Fe500D - (AS PER IS 1786:2008)

2. GRADE OF STEEL - **Fe500D** (AS PER IS 1786:2008)

3. ANY DISCREPANCY FOUND IN THESE DRAWING

SHOULD BE BROUGHT TO THE CONSULTANT ENGINEER

NOTICE BEFORE EXECUTION.

4. DO NOT CAST ANY R.C.C. WORK UNLESS IT IS CHECKED

AND APPROVED BY THE CONSULTANT ENGINEER

5. DESIGN OF PROPPING, SCAFFOLDING AND CONCRETE

MIX IS CONTRACTOR'S RESPONSIBILITY.

6. CLEAR COVER FOR REINFORCEMENT SHALL BE AS

FOLLOWS:

A) SLAB - 25 MM (1")

B) FOOTING / PILE CAP BOTTOM - 30 MM (1 1/4")

C) COLUMN / PILE CAP SIDE - 30 MM (1 1/4")

D) FOOTING / PILE CAP SIDE - 30 MM (1 1/4")

E) PILE CAP TOP - 30 MM (1 1/4")

F) PILE CAP TOP - 30 MM (1 1/4")

G) R.C.C. WALL (SHEAR WALL, PILE CAP, PILE CAP)

H) PILE CAP TOP - 30 MM (1 1/4")

I) COVER SLAB - 25 MM (1")

J) COVER SLAB - 25 MM (1")

K) COVER SLAB - 25 MM (1")

L) COVER SLAB - 25 MM (1")

M) COVER SLAB - 25 MM (1")

N) COVER SLAB - 25 MM (1")

O) COVER SLAB - 25 MM (1")

P) COVER SLAB - 25 MM (1")

7. REINFORCEMENT SYMBOL IS :-

A) Y OR O - HIGH YIELD STRENGTH BARS OF

MINIMUM YIELD STRENGTH IS 500 NMM².

B) R OR S - MILD STEEL OF MINIMUM YIELD

STRENGTH IS 250 NMM².

8. DO NOT SCALE THE DRAWING. REFER FIGURED

DIMENSIONS.

9. LAPPING OR ANCHORAGE LENGTH

A) BEAM AND SLAB = 60 X DIA OF BAR

B) COLUMN = 48 X DIA OF BAR

DESIGN LOADS:

1. FLOOR SLAB - 2.5 KNS/M²

2. ROOF SLAB - 1.5 KNS/M²

DRAWING STATUS: GOOD FOR CONSTRUCTION

NOTES: THIS DRAWING IS VALID ONLY IF
CONSULTANT CHECK AT SITE



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9346042528
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CLIENT: _____ SURVEY NO: _____

USE: _____ BLOCK NO: _____

RESIDENT: _____ NO. OF FLOORS: _____ LOCATION: _____

TITLE: **STRUCTURAL DRAWING**

DESIGNER: _____ CHECKED: _____ DATE: _____

DRAWN: _____ APPROVED: _____ SCALE: **1 : 25**

PROJECT NO: _____ DRAWING NO: **ST/ST01/RO**

