

IMPORTANT NOTES:-

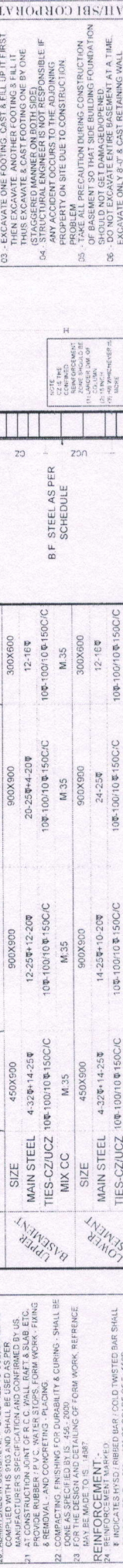
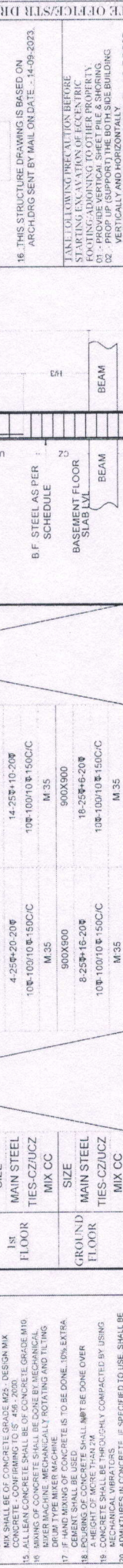
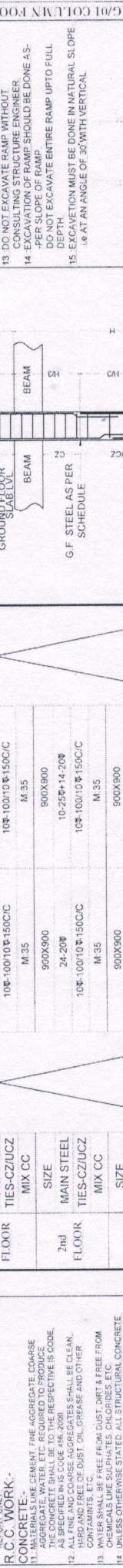
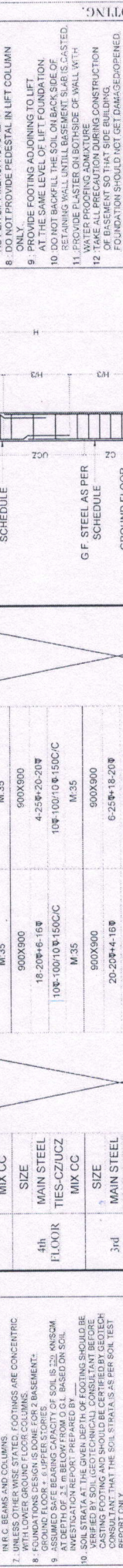
- GENERAL:- TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER INFRASTRUCTURAL ENGINEERING DRAWING.
- ALL DIMENSIONS AND LEVELS SHALL BE CHECKED & CONFIRMED BY THE CONTRACTOR PRIOR TO EXECUTION.
- IF THERE IS ANY DISCREPANCY BETWEEN THIS AND ARCHITECTURAL / INFRASTRUCTURAL DRAWINGS SHALL BE BROUGHT TO US IMMEDIATELY PRIOR TO EXECUTION.
- UNLESS OTHERWISE STATED, ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METERS.
- ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED INSTEAD OF DIMENSIONS SHOWN ON DRAWINGS.
- UNLESS PROVIDED IS MADE FOR WATER, SEWER OR ANY SERVICE PIPES SHALL NOT PASS THROUGH OR BE EMBEDDED IN R.C. BEAMS AND COLUMNS.
- UNLESS OTHERWISE STATED, FOOTINGS ARE CONCENTRIC WITH COLUMNS.
- FOUNDATIONS DESIGN IS DONE FOR 2 BASEMENT.
- ASSUMED SAFE BEARING CAPACITY OF SOIL IS 200 KNS/M².
- GROUND FLOOR & UPPER STORES.
- INVESTIGATION REPORT PREPARED BY SOIL TEST REPORT ONLY.
- SOIL STRATA AT THE GIVEN DEPTH OF FOOTING SHOULD BE VERIFIED BY SOIL/GEO TECHNICAL CONSULTANT BEFORE CASTING FOOTING AND SHOULD BE CERTIFIED BY GEO TECH CONSULTANT THAT THE SOIL STRATA IS AS PER SOIL TEST REPORT ONLY.

R.C.C. WORK:-

- MATERIALS LINE GEMENT, FINE AGGREGATE, COARSE AGGREGATE, WATER, ETC. REQUIRED TO PRODUCE CONCRETE SHALL BE CHECKED & CONFIRMED BY US.
- ALL FINE AND COARSE AGGREGATES SHALL BE CLEAN, HARD AND FREE OF DIRT, OIL, GREASE AND OTHER CONTAMINANTS, ETC.
- ALL FINE AND COARSE AGGREGATES SHALL BE FREE FROM CHEMICAL LINE SULPHATES, CHLORIDES, ETC.
- UNLESS OTHERWISE STATED, ALL STRUCTURAL CONCRETE MIX SHALL BE OF CONCRETE GRADE M25 - DESIGN MIX CONCRETE - CONFIRMING TO IS 456:2000.
- MIXING OF CONCRETE SHALL BE DONE BY MECHANICAL MIXER MACHINE, MECHANICALLY ROTATING AND TILTING DRUM TYPE MIXER MACHINE.
- IF HAND MIXING OF CONCRETE IS TO BE DONE, 10% EXTRA PORTLAND CEMENT SHALL BE USED.
- CONCRETE SHALL BE THOROUGHLY COMPACTED BY USING VIBRATORS.
- ADMITTURES IN CONCRETE TO BE SPECIFIED TO USE SHALL BE COMPLIED WITH IS 9103 AND SHALL BE USED AS PER MANUFACTURER'S SPECIFICATION AND CONFIRMED BY US.
- CONSTRUCTION JOINTS SHALL BE PROVIDED AS PER DESIGN & REMOVAL AND CONCRETING - PLACING - CURING - SHALL BE DONE AS SPECIFIED BY IS 456:2000.
- FOR THE DESIGN AND DETAILING OF FORM WORK, REFERENCE SHALL BE MADE TO IS 456:2000.
- REINFORCEMENT MARKED WITH 'R' INDICATES HYSD / RIBBED BARS, COLD TWISTED BARS SHALL CONFORM TO IS 1786 FOR BARS AND CONFORMING TO IS 432 PART 1 & 1982 OF GRADE F 250.
- REINFORCEMENT SHALL BE FREE FROM LOOSE MILL SCALES, LOOSE RUST AND COATS OF PAINT, OIL, MUD OR ANY OTHER SUBSTANCES WHICH REDUCE THE BOND.
- MINIMUM COVER SHALL BE PROVIDED AS FOLLOWS:
 - FOOTING 75MM
 - WALL 25MM
 - SLAB 15MM
 - STAIR 15MM
 - COLUMN 40MM
 - BEAM 40MM
- BENDING / BINDING / FINISHING / ASSEMBLING OF REINFORCEMENT SHALL BE DONE, CONFIRMED TO IS 2532.
- PROVIDE APPROVED TYPE AND AND SIZE CHAR TO CHAR 7.5 MM DIA BAR AS SPACER BAR @ 250 MM C/C TO KEEP THE REINFORCEMENT IN LAYERS FOR BEAMS.
- PROVIDE 20 MM DIA BAR AS SPACER BAR @ 250 MM C/C TO KEEP THE REINFORCEMENT IN LAYERS FOR BEAMS.
- LAP LENGTH FOR HYSD / RIBBED TOR / COLD TWISTED BARS SHALL BE 50 TIMES DIA OF BAR.
- REINFORCEMENT SHALL BE CHECKED BY AUTHORIZED ENGINEER OR FROM OUR OFFICE.
- STRUCTURAL CONSULTANT IS NOT RESPONSIBLE FOR ANY DAMAGE IN THE ADJOINING BUILDING OR THE BUILDING WHICH OCCURS DURING THE CONSTRUCTION OF THE BUILDING.
- DO NOT REMOVE THE CENTERING OF PROJECTED PORTION OF SLABS & BEAMS UNLESS & UNTIL PROPER LOAD AGAINST OVERTURNING IS ESTABLISHED OVER THOSE SLABS & BEAMS.
- DO NOT REMOVE THE CENTERING OF PROJECTED PORTION OF SLABS & BEAMS UNLESS & UNTIL PROPER LOAD AGAINST OVERTURNING IS ESTABLISHED OVER THOSE SLABS & BEAMS.
- WE ARE LIABLE ONLY FOR FEES THAT WE ARE PAID.
- OUR RESPONSIBILITY IS LIMITED TO SUPERVISION OF WORKS NOT OUR RESPONSIBILITY. WE ARE RESPONSIBLE FOR STRUCTURAL DESIGN UP TO 7 YEARS FROM SUBMISSION OF STRUCTURAL DRAWINGS. WALL AND THEN CAST COLUMN BEAM AND SLAB TO AVOID CRACKING PROBLEMS.

SCHEDULE OF COLUMN FOOTING

FLOORS	DETAILS	C1/C2/C3	C4/C7/C8/C11, C12, C14, C15, C18	C5/C6/C9/C10, C13, C16, C17	C19
6th FLOOR	SIZE	900X900	14-25Φ+10-1Φ	20-20Φ+4-1Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
5th FLOOR	SIZE	900X900	16-20Φ+8-1Φ	24-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
4th FLOOR	SIZE	900X900	18-20Φ+6-1Φ	4-25Φ+20-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
3rd FLOOR	SIZE	900X900	18-20Φ+4-1Φ	6-25Φ+18-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
2nd FLOOR	SIZE	900X900	24-20Φ	10-25Φ+14-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
1st FLOOR	SIZE	900X900	8-25Φ+16-20Φ	14-25Φ+10-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
GROUND FLOOR	SIZE	450X900	8-25Φ+16-20Φ	18-25Φ+6-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ
LOWER BASEMENT	SIZE	450X900	14-25Φ+14-25Φ	25-25Φ+4-20Φ	300X900
	TIES-CZ/UCZ MIX CC	M 35	10Φ-100/10Φ-150C/C	10Φ-100/10Φ-150C/C	12-16Φ



DETAIL OF COLUMN SCHEDULE

DRG NO	N T.S.	SHEET	A3	N
DRG NO : 04	N T.S.	SHEET	A3	N

NOTES

- PLEASE CHECK CENTER LINE AS PER ARCH DRG. BEFORE STARTING WORK.
- IF ANY AMBIGUITY FOUND, CONTACT STRUCTURE ENGR. IMMEDIATELY BEFORE STARTING WORK.
- FOLLOW ONLY ARCHITECTURAL DIMENSIONS IN ALL DRAWINGS.
- STRUCTURE ENGINEER IS NOT RESPONSIBLE DUE TO CONSTRUCTION FAULTS.
- BOTTOM OF FOOTING SHOULD NOT BE ON FILLED UP SOIL. IF FILLED UP SOIL IS FOUND PLEASE INFORM STRUCTURE ENGINEER BEFORE START EXECUTION.
- DO NOT EXCAVATE RAMP UNTILL BASEMENT AS PER LIFT MANUFACTURER.
- PROVIDE DEPTH OF THE FOOTING FOR LIFT AS PER LIFT MANUFACTURER.
- DO NOT PROVIDE PEDESTAL IN LIFT COLUMN ONLY.
- PROVIDE FOOTING ADJOINING TO LIFT AT THE SAME LEVEL OF LIFT FOUNDATION.
- DO NOT BACKFILL THE SOIL ON BACK SIDE OF RETAINING WALL UNTILL BASEMENT SLAB IS CASTED.
- PROVIDE PLASTER ON BOTH SIDE OF WALL WITH RETAINING WALL.
- TAKE ALL PRECAUTION DURING CONSTRUCTION OF BASEMENT SO THAT SIDE BUILDING FOUNDATION SHOULD NOT GET DAMAGED/OPENED.
- DO NOT EXCAVATE RAMP WITHOUT CONSULTING STRUCTURE ENGINEER.
- EXCAVATION OF RAMP SHOULD BE DONE AS PER SCOPE OF WORK.
- DO NOT EXCAVATE ENTIRE RAMP UP TO FULL DEPTH.
- EXCAVATION MUST BE DONE IN NATURAL SLOPE AT AN ANGLE OF 30° WITH VERTICAL.
- THIS STRUCTURE DRAWING IS BASED ON ARCHDRG SENT BY MAIL ON DATE - 14-09-2023.

TAKE FOLLOWING PRECAUTION BEFORE STARTING EXCAVATION OF ECCENTRIC FOOTING-ADJOINING TO OTHER PROPERTY

- PROVIDE 100MM THICK CONCRETE SLAB VERTICALLY AND HORIZONTALLY.
- PROVIDE 100MM THICK CONCRETE SLAB VERTICALLY AND HORIZONTALLY.
- EXCAVATE ONE FOOTING FIRST & FILL UP IT FIRST.
- EXCAVATE SECOND FOOTING ONE BY ONE (STAGGERED MANNER ON BOTH SIDE).
- STRUCTURAL ENGINEER IS NOT RESPONSIBLE IF ANY ACCIDENT OCCURS TO THE ADJOINING PROPERTY ON SITE DUE TO CONSTRUCTION.
- TAKE ALL PRECAUTION DURING CONSTRUCTION OF BASEMENT SO THAT SIDE BUILDING FOUNDATION SHOULD NOT GET DAMAGED/OPENED.
- EXCAVATE ONLY 8-7' & CAST RETAINING WALL STAGE BY STAGE IN 8-7' LENGTH WISE.

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CHECKED BY:- RISHVA
DRAWN BY:- JIBRAN KHAN
DATE: 07-10-2023
PROJECT NO.: 40117
DRAWING TITLE: DETAIL OF COLUMN SCHEDULE

DRG NO : 04
SCALE: N T.S.
SHEET: A3
N

FOR ZARNA ASSOCIATES
Structural Consultants
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