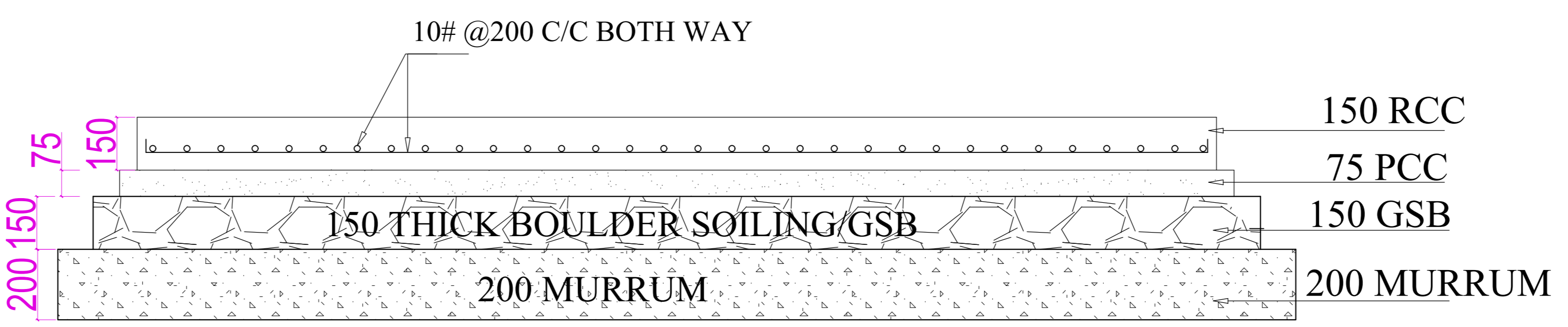
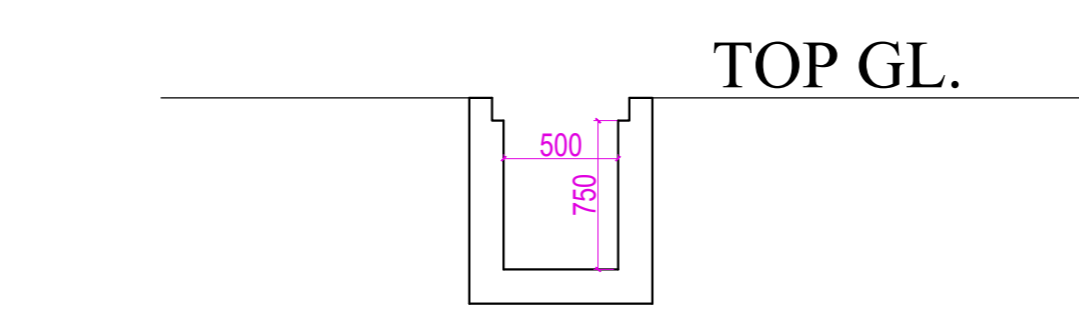


PLINTH BEAM AND PLINTH RAFT PLAN SCHEDULE OF BEAM REINFORCEMENT

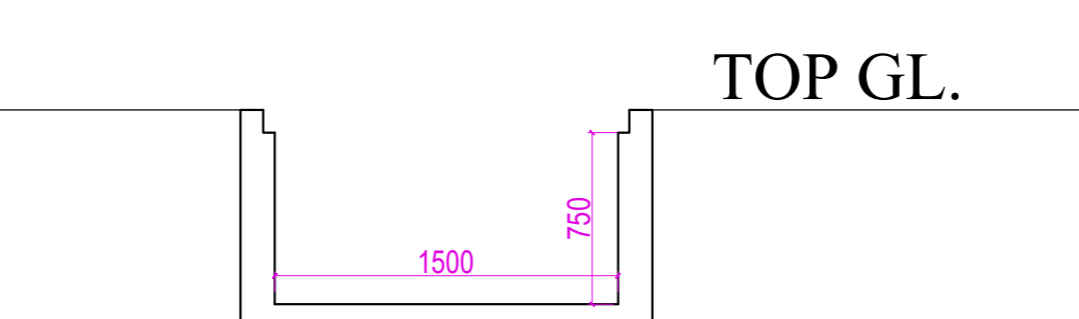
BEAM	TOP BAR	BOT. BAR	EXT. AT BOT. OF 0.7L	EXT. OVER CONTI. SUPP.	EXT. OVER END SUPP.	RINGS SPACING L/3 ON EITHER SIDE OF SPAN	RINGS SPACING ON REST OF SPAN
B1 (230x500)	2-16#	2-16#	2-16#	----	----	8# @ 150 C/C	8# @ 200C/C
B2 (230x500)	3-16#	2-16#	----	----	----	8# @ 150 C/C	8# @ 150 C/C
B3 (300x500)	2-20#	2-20#	2-20#	2-20#	2-20#	8# @ 100 C/C	8# @ 150C/C
B3A (300x500)	2-20#	2-20#	----	----	----	8# @ 125 C/C	8# @ 150C/C
B4 (300x600)	2-20#	2-20#	2-20#	2-20#	2-20#	8# @ 100 C/C	8# @ 150C/C
B4A (300x500)	2-20#	2-20#	----	----	----	8# @ 125 C/C	8# @ 150C/C
B5 (300x600)	2-20#	2-20#	2-20#	2-20#	2-20#	8# @ 100 C/C	8# @ 150C/C
B6 (300x600)	2-20#	2-20#	2-20#	2-20#	2-20#	8# @ 100 C/C	8# @ 150C/C
B7A (300x500)	3-20#	3-20#	----	2-20#	----	8# @ 125 C/C	8# @ 150C/C
B7 (300x500)	3-20#	3-20#	----	2-20#	----	8# @ 100 C/C	8# @ 150C/C
B8 (300x500)	2-20#	2-20#	----	2-20#	----	8# @ 100 C/C	8# @ 150C/C
B9 (300x500)	2-20#	2-20#	1-20#	2-20#	2-20#	8# @ 100 C/C	8# @ 150C/C
B10 (300x500)	----	----	----	----	----	----	----
B11 (230x500)	2-16#	2-16#	----	----	----	8# @ 150 C/C	8# @ 150 C/C
B12 (230x500)	2-16#	2-16#	1-16#	2-16#	2-16#	8# @ 150 C/C	8# @ 200C/C
B13 (230x600)	2-16#	2-16#	1-16#	2-16#	2-16#	8# @ 150 C/C	8# @ 200C/C
B14 (230x600)	2-16#	2-16#	1-16#	2-16#	2-16#	8# @ 150 C/C	8# @ 200C/C
B15 (230x500)	2-16#	2-16#	1-16#	2-16#	2-16#	8# @ 150 C/C	8# @ 200C/C
B16 (230x500)	2-16#	2-16#	1-16#	2-16#	2-16#	8# @ 150 C/C	8# @ 200C/C
B16A (230x500)	3-16#	2-16#	----	----	----	8# @ 150 C/C	8# @ 150 C/C
B17 (230x500)	2-16#	2-16#	1-16#	----	1-16#	8# @ 150 C/C	8# @ 200C/C
B18 (300x600)	3-20#	3-20#	3-20#	3-20#	3-20#	8# @ 150 C/C	8# @ 200C/C
B19 (300x600)	3-20#	3-20#	3-20#	3-20#	3-20#	8# @ 150 C/C	8# @ 200C/C
B20 (300x500)	2-20#	2-20#	1-20#	3-20#	3-20#	8# @ 150 C/C	8# @ 200C/C
B21 (300x500)	2-16#	2-16#	1-16#	2-16#	2-16#	8# @ 150 C/C	8# @ 200C/C
B22 (300x500)	2-16#	2-16#	1-16#	2-16#	----	8# @ 150 C/C	8# @ 200C/C
B23 (300x500)	2-16#	2-16#	1-16#	1-16#	----	8# @ 150 C/C	8# @ 200C/C
B24 (300x500)	2-16#	2-16#	----	1-16#	----	8# @ 150 C/C	8# @ 200C/C
B24A (300x500)	3-16#	2-16#	----	----	----	8# @ 150 C/C	8# @ 150 C/C
B25 (230x500)	2-16#	2-16#	----	----	----	8# @ 150 C/C	8# @ 150 C/C



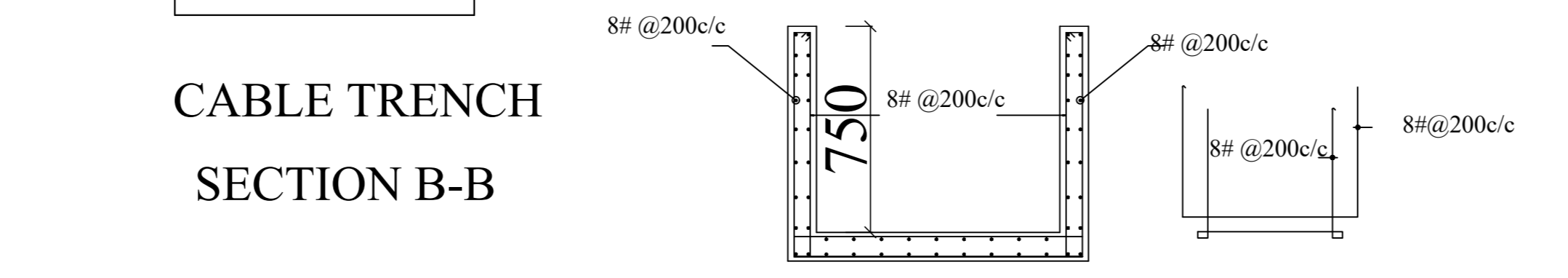
PLINTH RAFT SECTION DETAIL



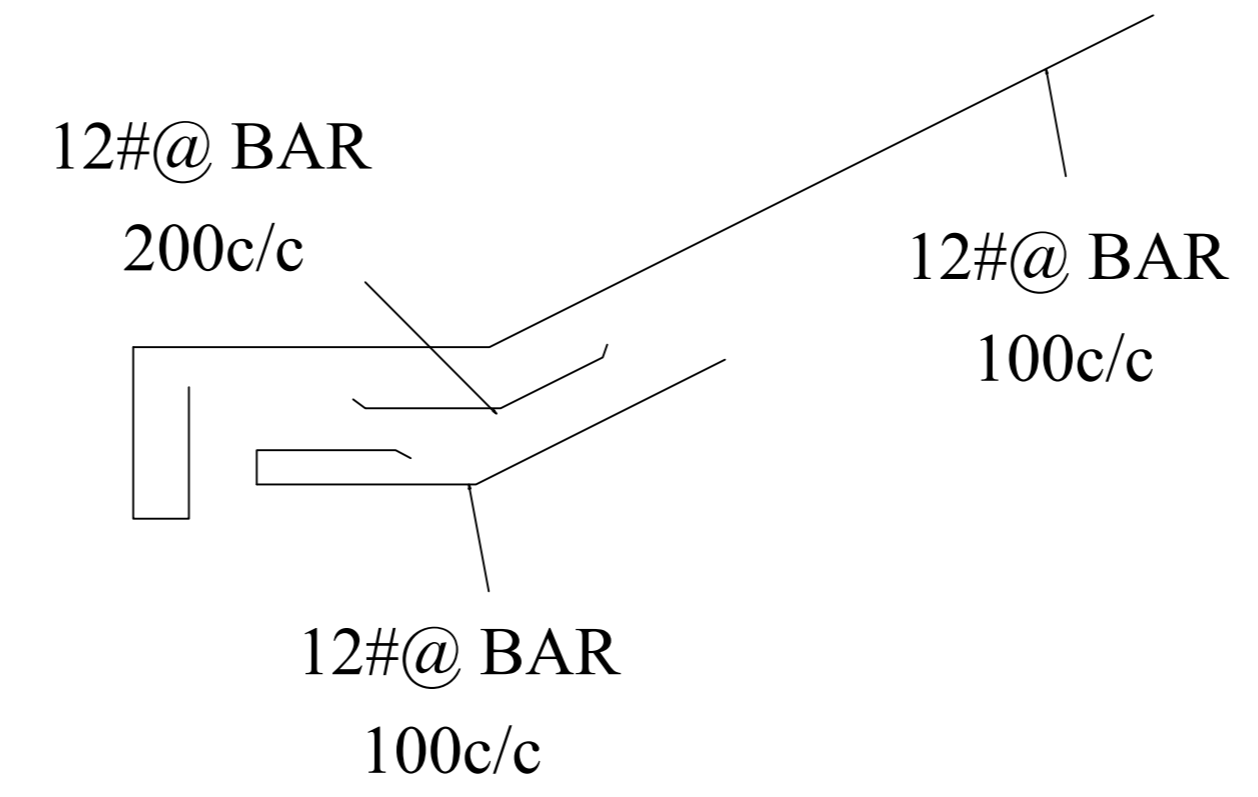
SECTION A-A CABLE TRENCH



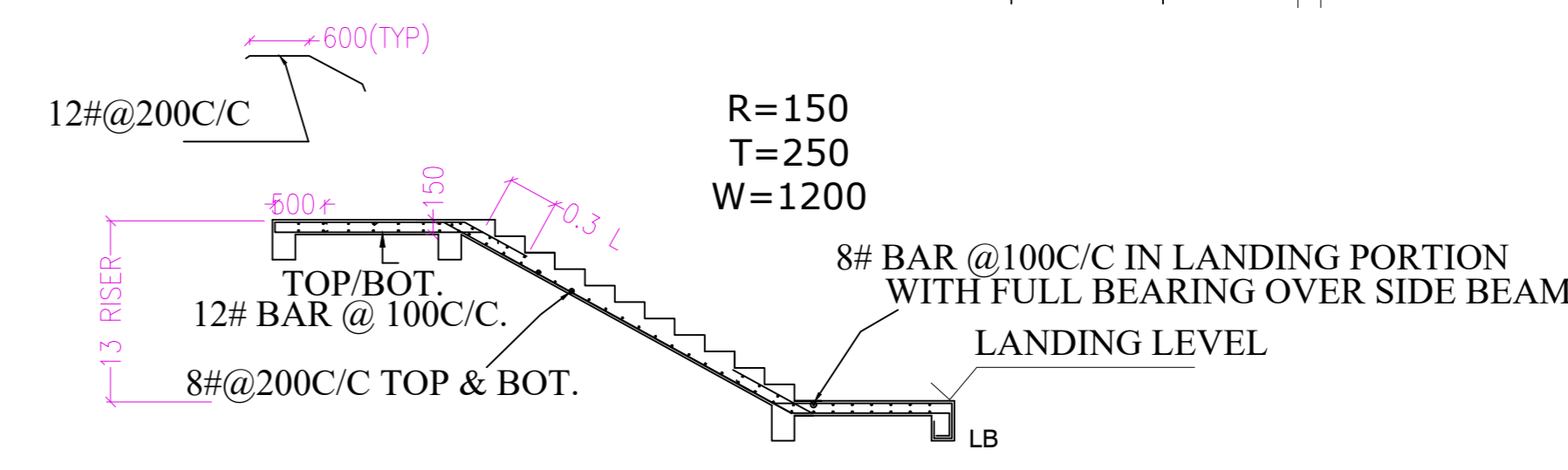
SECTION B-B CABLE TRENCH



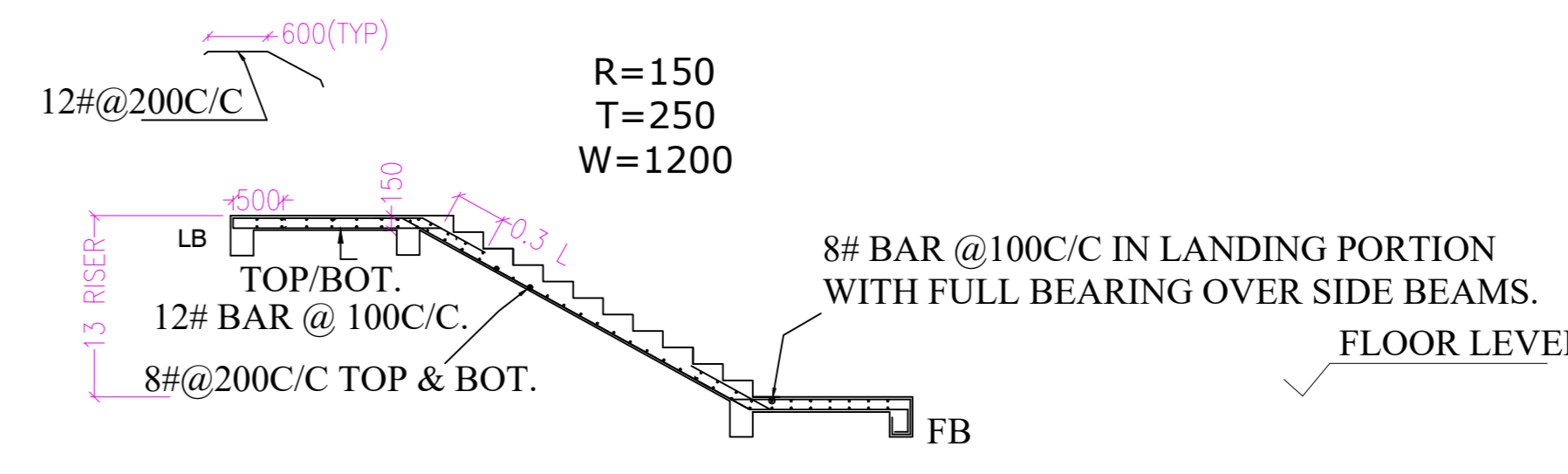
SECTION OF TRENCH



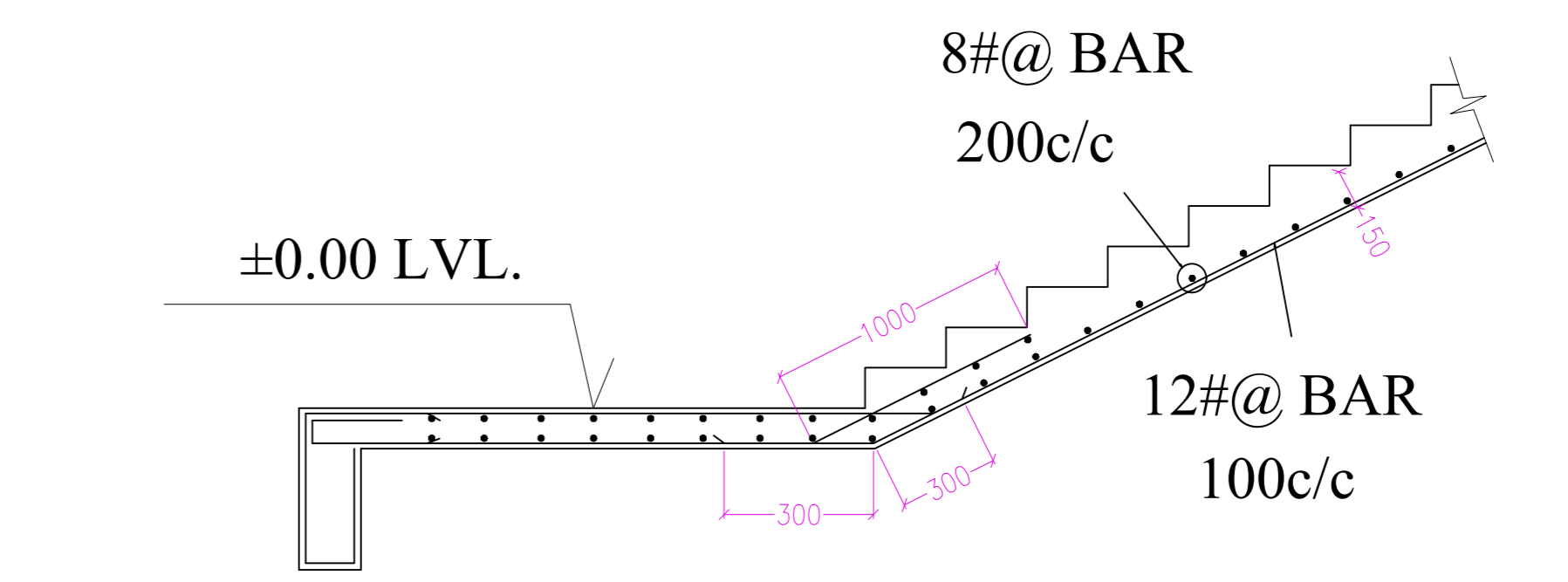
BAR ARRANGEMENT



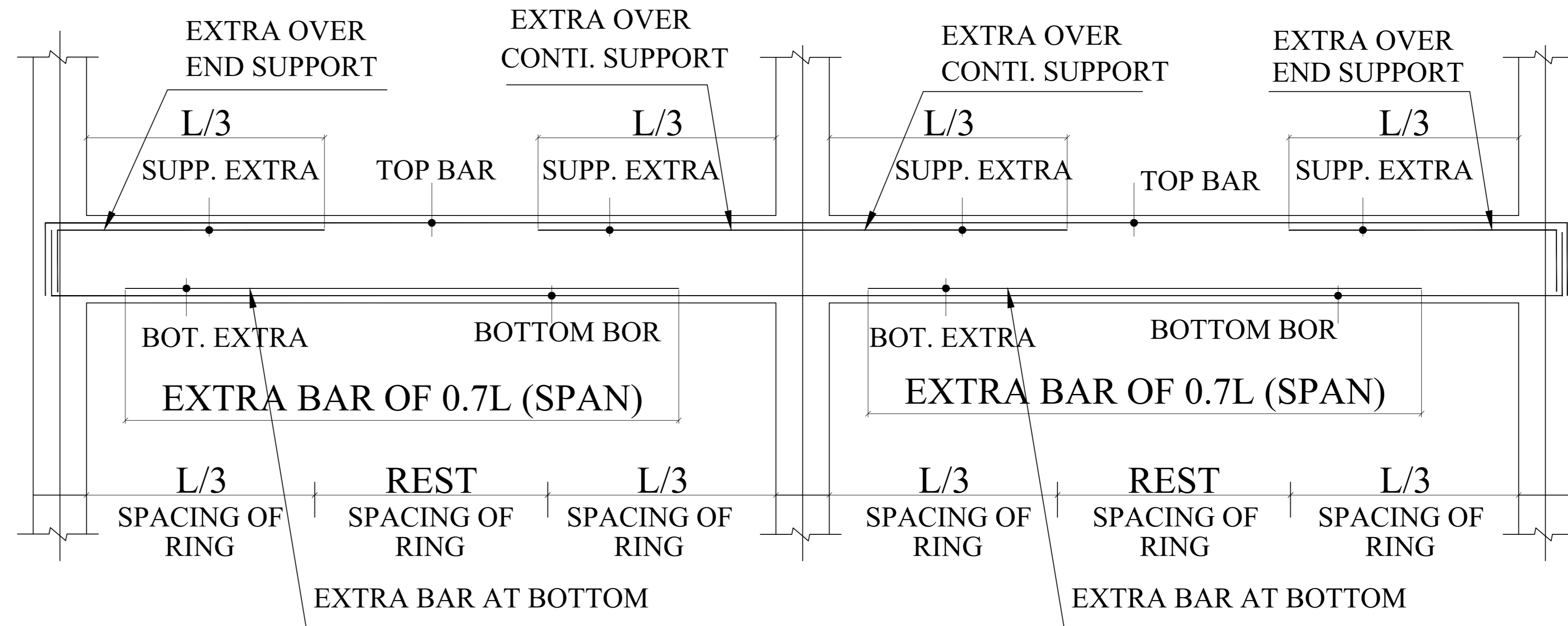
STAIR CASE SECTION SECOND FLIGHT



STAIR CASE SECTION FIRST FLIGHT



SECTION X-X BEAM AS/ DET.



TYPICAL DETAIL OF BEAM SCHEDULE OF BEAM REINFORCEMENT

- NOTES:-
- ALL DIM. ARE IN MILLIMETER UNLESS NOTED OTHERWISE
 - NOT MORE THAN HALF THE COLUMN BARS SHALL BE LAPED AT A SECTION
 - GRADE OF CONCRETE MIX SHALL BE M-30 CONFIRMING TO IS:456 - 2000.
 - STEEL REINFORCEMENT SHALL BE GRADE Fe:500-D N/SQ. mm AS PER IS:1786-2007.
 - CLEAR COVER TO THE R/F SHALL BE AS FOLLOWS.
I COLUMN - 40mm ALLROUND
II FOOTING - 60 mm
III BEAM - 25 mm ALLROUND
IV SLAB - 20 mm TOP/BOT.
 - DEVELOPMENT LENGTH & LAP LENGTH SHALL BE 50 TIMES DIA OF BAR
 - TOP & BOTTOM BARS SHOULD BE BEND AT THE ENDS AT LEAST FOR BEAM DEPTH IN CASE OF DEVELOPMENT LENGTH SATISFIED.
 - TOP BARS OF BEAM SHALL BE LAPPED AT THE CENTRE OF THE SPAN AND BOTTOM BARS SHALL BE LAPPED AT TWICE THE DEPTH AWAY FROM SUPPORT OR AT SUPPORT WITH LAP LENGTH FOR BOTH THE BARS
 - COLUMN FOOTING HAS BEEN DESIGN FOR GROUND FLOOR, FIRST AND SECOND
 - THE COLUMN BARS SHALL BE LAPPED AT THE MIDDLE OF THE STOREY HEIGHT AND STAGGERED BY 1.3 TIMES DEVELOPMENT LENGTH-Ld
 - THE SAFE BEARING CAPACITY OF SOIL IS 500 KN/ SQ. M.
 - AS FAR AS POSSIBLE THE BOTTOM LEVEL OF FOOTING SHOULD BE SAME OTHERWISE WELL WITHIN THE DISPERSION ANGLE OF LOAD TO ADJACENT FOOTING TO AVOID OVER STRESSING OF SOIL OF LOWER LEVEL FOOTING WHICH IS LIKELY TO COME IN LOAD DISPERSION RANGE.
 - THE STRUCTURE HAS BEEN DESIGNED AS PER IS:1893 WITH AN IMPORTANCE FACTOR-1.50.
 - THE DETAILING OF REINFORCEMENT SHALL BE DONE AS PER IS:13920 & REFER DET. DRG. WHICH WILL PROVIDE SEPARTELY.
 - ALL THE FLOOR IMPOSED LOADING HAS BEEN TAKEN AS PER IS:875 PART-2.

CONCRETE MIX DESIGN OF GRADE M30
ORDINARY PORTLAND CEMENT-50 Kg.
FINE AGGREGATE (SAND)-84 Kg
COARCE AGGREGATE - 150 Kg
AGGREGATE 12 MM & DOWN - 60 Kg. &
AGGREGATE 20 MM & DOWN - 90 Kg.
POTABLE WATER - 22.50 LITRES/BAG

CONCRETE MIX DESIGN PER CUM.OF GRADE M30
ORDINARY PORTLAND CEMENT-400 Kg.
FINE AGGREGATE (SAND)-640 Kg
COARCE AGGREGATE - 1200 Kg
AGGREGATE 12 MM & DOWN - 560 Kg.
AGGREGATE 20 MM & DOWN - 640 Kg.
WATER CEMENT RATIO - 0.45
POTABLE WATER - 180 LITRES/BAG

ISSUED TO	DATE	NO. OF PRINTS
REV	DATE	DISCRPTION
Space Forum Architects Pvt. Ltd.		
114, Arniya Plaza 27/2 Manoramaganj Indore - 452001 Phone: (0731) 2494930, 2494284 e-mail: space4rum@yahoo.co.in		
JOB TITLE		
PROPOSED MORTUARY AND ELECRICAL SUB STATION BUILDING FOR MAHATMA GANDHI MISSION TRUST AT MUMBAI.		
SHEET TITLE		
STRUCTURAL DETAILS OF PLINTH BEAMS AND SLAB		
DEALT BY.		DRG.NO
CHECKED BY.		S - 02
DATE	05.02.2024	
SCALE		