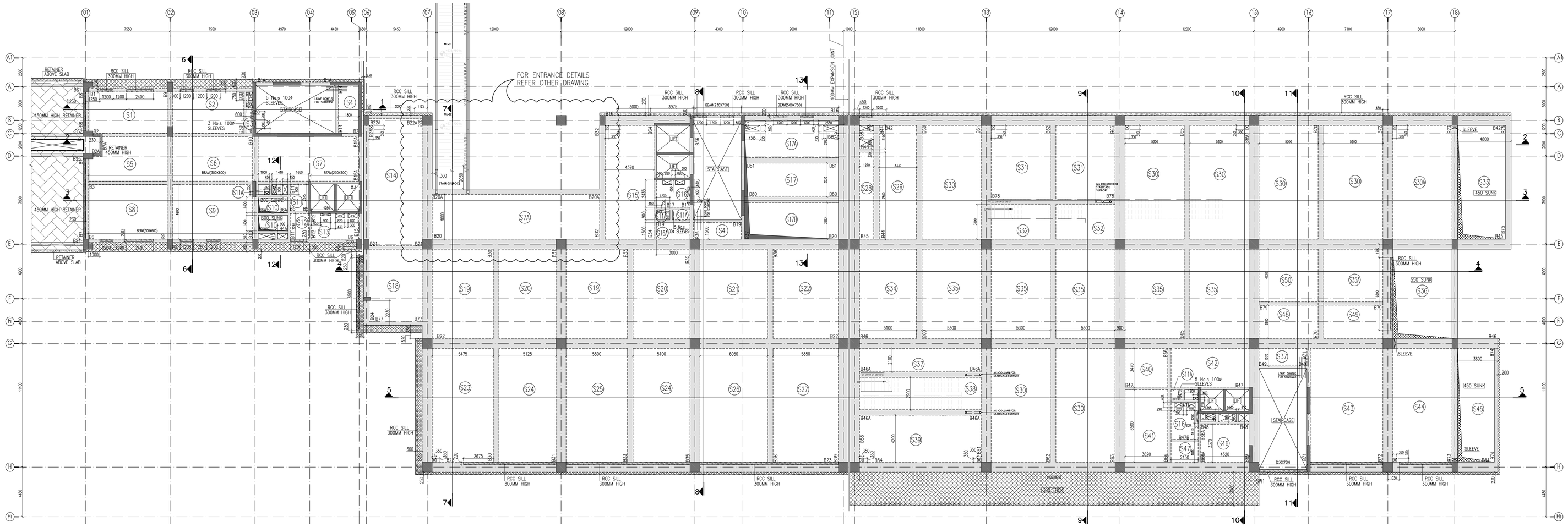


FIRST FLOOR FRAMING PLAN & SLAB LAYOUT

1ST FLOOR BEAM SCHEDULE:–

BEAM NO.	SIZE
B1	300x600
B1A	300x600
B2	300x600
B2A	300x600
B3	230/300x600 300x750
B3A	230x500
B3B	230x500
B4	230x620
B4A	230x450
B5	230x600
B6	300x600/750
B6A	230x450
B7	500x750
B7A	230x600
B8	500x750
B9	500x750
B10	500x750
B11	230x750
B12	230x600
B13	230x450
B13A	230x620
B14	300x600
B15	300x600
B15A	300x600
B16	900/230/500x750
B17	230x600
B18	230x600
B19	230x600
B20	900x750
B20A	500x750
B21	300x600
B22	900x750
B22A	300x600
B23	900x750
B24	500x750
B26	900x750
B30	500x750
B31	900x750
B32	500x750
B33	500x750
B34	230x600
B35	900x750
B36	300x600
B37	300x750
B38	500x750
B39	900x750
B42	900x750
B43	300x600
B44	500x750
B45	900x750
B46	900x750
B46A	500x750
B47	230x600
B47A	230x600
B47B	230x600
B47C	230x600
B48	230x500
B49	230x500
B54	900x870 900/230x750
B58	900x750
B60	500x750
B61	900x750
B62	500x750
B63	900x750
B65	500x750
B66	300x600
B66A	230x600
B67	230x500
B69	900x750
B70	500x750
B71	300x600
B72	900x750
B73	500x750
B74	300x750
B75	500x750
B77	300x750
B78	500x750
B79	300x750
B80	500x450
B81	500x450

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. DO NOT SCALE ANY DIMENSION
3. READ THIS DRG. ALONG WITH ARCHITECTURAL DRG. IN CASE OF ANY DISCREPANCY BEING NOTED IT SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE CONSULTANT BEFORE COMMENCING THE WORK.
4. THE CLEAR COVER SHOWN IN TABLE BELOW SHALL BE FROM THE OUTER FACE OF THE STRUCTURAL ELEMENT TO THE TIES FOR BEAMS AND TO THE MAIN REINFORCEMENT FOR SLABS.

ITEM	GRADE OF CONCRETE	GRADE OF STEEL	CLEAR COVER
BEAMS	M25	Fe500	25 mm
SLABS	M25	Fe500	20 mm

5. LAP LENGTH 49ø WHERE 'ø' IS THE DIA OF BAR

LEGEND :-

SUNKEN–100
CUTOUT

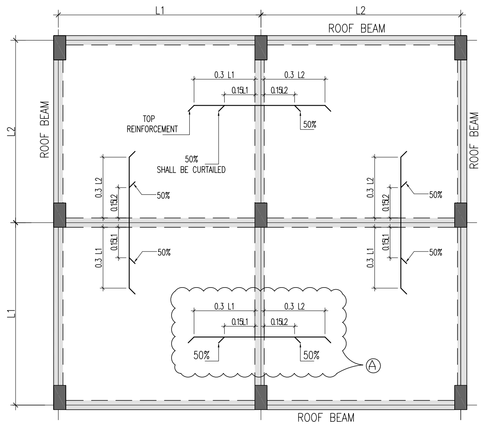
REFERENCE :-

1. FOR FIRST FLOOR SECTIONS REFER DWG NO. NIT-S-GJ-102A
2. FOR BEAM DETAILS REFER DWG NO. NIT-S-GJ-102B NIT-S-GJ-102C NIT-S-GJ-102D

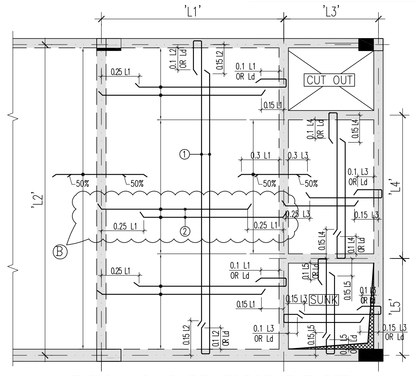
SLAB REINFORCEMENT SCHEDULE

SLAB NO.	BOTTOM REINFORCEMENT LONG SPAN ①	BOTTOM REINFORCEMENT SHORT SPAN ②	TOP REINFORCEMENT LONG SPAN ③	TOP REINFORCEMENT SHORT SPAN ④	THICKNESS
(S1)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@150C/C	150
(S2)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	150
(S3)	ϕ8@250C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@150C/C	120
(S4)	ϕ8@250C/C	ϕ8@200C/C	--	--	120
(S5)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@150C/C	150
(S6)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@150C/C	150
(S7)	ϕ8@200C/C	ϕ10@125C/C	ϕ10@100C/C	--	180
(S7A)	ϕ8@200C/C	ϕ10@125C/C	--	ϕ10@200C/C	180
(S8)	ϕ8@200C/C	ϕ8@175C/C	ϕ8@200C/C	ϕ10@200C/C	200
(S9)	ϕ8@200C/C	ϕ8@175C/C	ϕ8@200C/C	ϕ10@200C/C	200
(S10)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S11)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S11A)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S12)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S13)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S14)	ϕ8@200C/C	ϕ12@125C/C	ϕ10@200C/C	--	250
(S15)	ϕ8@200C/C	ϕ10@110C/C	ϕ10@150C/C	ϕ8@200C/C	200
(S16)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S16A)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S17)	ϕ8@200C/C	ϕ10@125C/C	ϕ8@200C/C	ϕ10@125C/C	180
(S17A)	ϕ8@200C/C	ϕ10@125C/C	ϕ8@200C/C	ϕ10@125C/C	180
(S17B)	ϕ8@200C/C	ϕ10@125C/C	ϕ8@200C/C	ϕ10@125C/C	180
(S18)	ϕ8@200C/C	ϕ8@125C/C	ϕ10@200C/C	ϕ10@150C/C	180
(S19)	ϕ8@200C/C	ϕ8@125C/C	ϕ10@200C/C	ϕ10@150C/C	200
(S20)	ϕ8@200C/C	ϕ8@150C/C	ϕ10@200C/C	ϕ10@175C/C	200
(S21)	ϕ8@200C/C	ϕ10@150C/C	ϕ10@200C/C	ϕ10@150C/C	200
(S22)	ϕ10@200C/C	ϕ10@125C/C	ϕ10@150C/C	ϕ10@100C/C	200
(S23)	ϕ10@200C/C	ϕ12@150C/C	ϕ10@150C/C	ϕ12@150C/C	200
(S24)	ϕ8@200C/C	ϕ8@125C/C	ϕ10@200C/C	ϕ10@150C/C	200
(S25)	ϕ8@200C/C	ϕ10@150C/C	ϕ10@200C/C	ϕ10@125C/C	200
(S26)	ϕ8@200C/C	ϕ10@150C/C	ϕ10@200C/C	ϕ10@125C/C	200
(S27)	ϕ10@200C/C	ϕ12@125C/C	ϕ10@150C/C	ϕ12@125C/C	200
(S28)	ϕ8@250C/C	ϕ8@200C/C	ϕ10@200C/C	--	120
(S29)	ϕ8@250C/C	ϕ10@150C/C	ϕ10@200C/C	ϕ10@125C/C	200
(S30)	ϕ10@200C/C	ϕ10@125C/C	ϕ10@200C/C	ϕ12@150C/C	200
(S30A)	ϕ12@100C/C	ϕ10@150C/C	--	ϕ12@100C/C	200
(S31)	ϕ8@175C/C	ϕ8@150C/C	ϕ10@200C/C	ϕ10@150C/C	200
(S32)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	150
(S33)	ϕ10@200C/C	ϕ12@150C/C	--	--	200
(S34)	ϕ10@200C/C	ϕ10@150C/C	ϕ10@200C/C	ϕ10@125C/C	200
(S35)	ϕ10@200C/C	ϕ10@125C/C	ϕ10@200C/C	ϕ10@100C/C	200
(S35A)	ϕ10@200C/C	ϕ10@150C/C	ϕ10@200C/C	ϕ10@175C/C	150
(S36)	ϕ10@150C/C	ϕ12@75C/C	--	--	200
(S37)	ϕ8@200C/C	ϕ8@175C/C	ϕ10@150C/C	ϕ10@200C/C	150
(S38)	ϕ8@200C/C	ϕ10@150C/C	ϕ12@150C/C	--	150
(S39)	ϕ8@200C/C	ϕ12@100C/C	ϕ12@150C/C	--	200
(S40)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	120
(S41)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@150C/C	180
(S42)	ϕ8@200C/C	ϕ8@125C/C	ϕ8@150C/C	ϕ10@150C/C	150
(S43)	ϕ10@150C/C	ϕ10@100C/C	ϕ10@125C/C	ϕ12@100C/C	250
(S44)	ϕ10@150C/C	ϕ12@100C/C	--	ϕ12@100C/C	200
(S45)	ϕ8@200C/C	ϕ8@125C/C	--	--	180
(S46)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@150C/C	150
(S47)	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	ϕ8@200C/C	150
(S48)	ϕ8@200C/C	ϕ8@150C/C	ϕ8@200C/C	ϕ8@150C/C	120
(S49)	ϕ8@200C/C	ϕ8@150C/C	ϕ8@200C/C	ϕ8@150C/C	120
(S50)	ϕ8@200C/C	ϕ8@125C/C	ϕ8@150C/C	ϕ8@125C/C	150

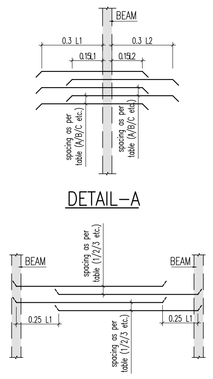
1) PROVIDE ϕ8@250 C/C DISTRIBUTION STEEL WHEREVER REQUIRED



TYPICAL TOP REINFORCEMENT CURTAILMENT DETAIL (AT INTERMEDIATE SUPPORTS)



TYPICAL SLAB REINFORCEMENT DETAIL WHERE PARTIAL CONTINUITY OF SLAB EXISTS



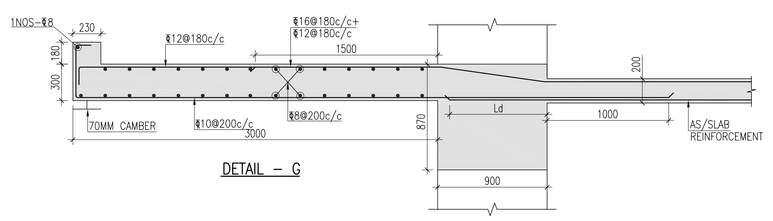
DETAIL–A

DETAIL–B

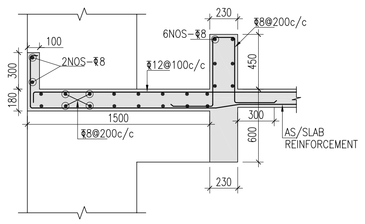
IMPORTANT NOTE :-

FOR NEGATIVE SLAB REINFORCEMENT AT JUNCTION OF TWO SLABS, FOLLOW THE MAXIMUM NEGATIVE REINFORCEMENT OUT OF TWO SLABS

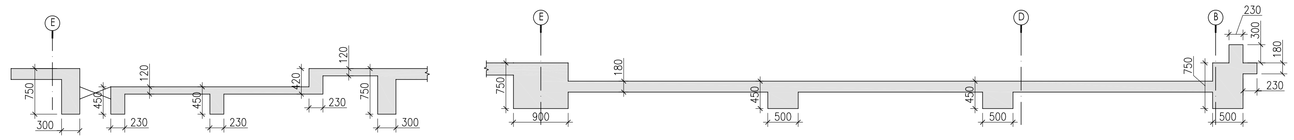
EXAMPLE :–
S30––ϕ12@ 150C/C
S41––ϕ8@ 150C/C
} AT THE JUNCTION OF S30 , S41 NEGATIVE REINFORCEMENT OF SLAB SHALL BE ϕ12@ 150C/C



DETAIL – G

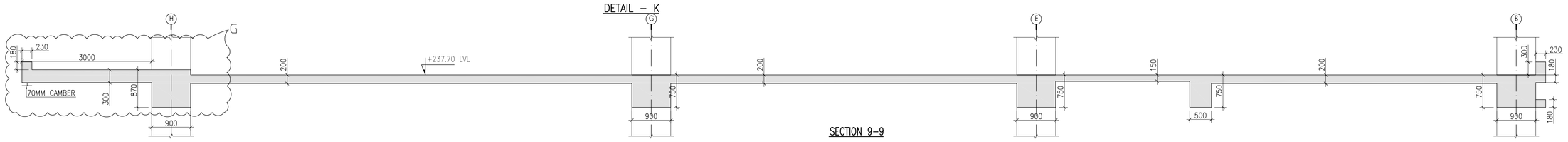


DETAIL – K

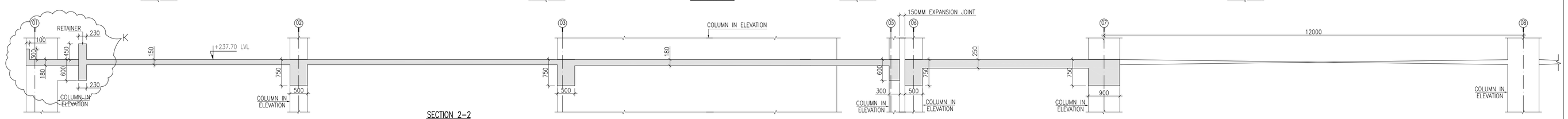


SECTION 12–12

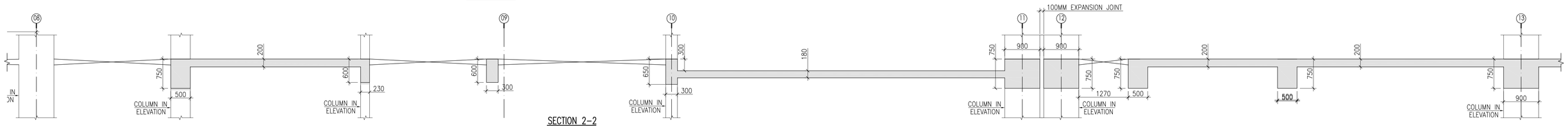
SECTION 13–13



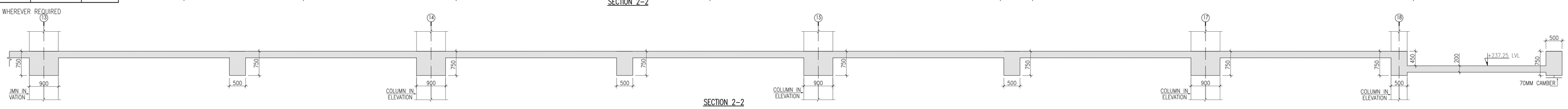
SECTION 9–9



SECTION 2–2



SECTION 2–2



SECTION 2–2

No.	Date	By	Description	Issue
R0	13.05.2014		FOR APPROVAL	

Revisions

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Job Title
GOLDEN JUBILEE BUILDING
NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

Drawing Title
FIRST FLOOR FRAMING PLAN AND SLAB LAYOUT

Job No.	Drawing No. NIT-S-GJ-102
Drawn Sreedevi	Checked Chary
Date 13-05-2014	Scale 1:100
	Revisions