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Official Property Record

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WHITEFIELD MUDRA – PHASE B project at Medavakkam (Survey Nos. 134/1C, 134/2A1, 135/1C1, 135/2C1 &136/2C1C)

Design Parameters:

1. Geometry:

   No of floors : Stilt + 5 floors

   Height : 18.3m

   Length and Breadth : 80.23m x 33.13m at stilt floor

2. Structure:
   RCC Framed structure
   Moment resistant frames with ductile detailing
   Concrete Mix M25 & steel Fe550 TMT bars

3. Foundation:
   Foundation RCC Isolated footings / raft foundation
   SBC of soil 30 MT/Sqm as per soil test report

4. Design Code:
   IS 456:2016 Plain and Reinforced Concrete - Code of Practice

   IS 13920:2016 Ductile Design and detailing of reinforced concrete structures subjected to seismic forces-Code of practice

5. Loadings:
   Dead Load:
   Staircase flight loads 1.25Mt/m on support beams
   AAC Block Wall load (full brick) 0.75 MT/m
   Half brick wall 0.70 MT/m
   AAC Block Wall load (Half brick) 0.51 MT/m
   Parapet wall 0.5 MT/m
   Floor slab 0.45MT/sqm
   Terrace slab 0.80 MT/sqm
   AC Ledge and Plant load 0.45 Mt/m

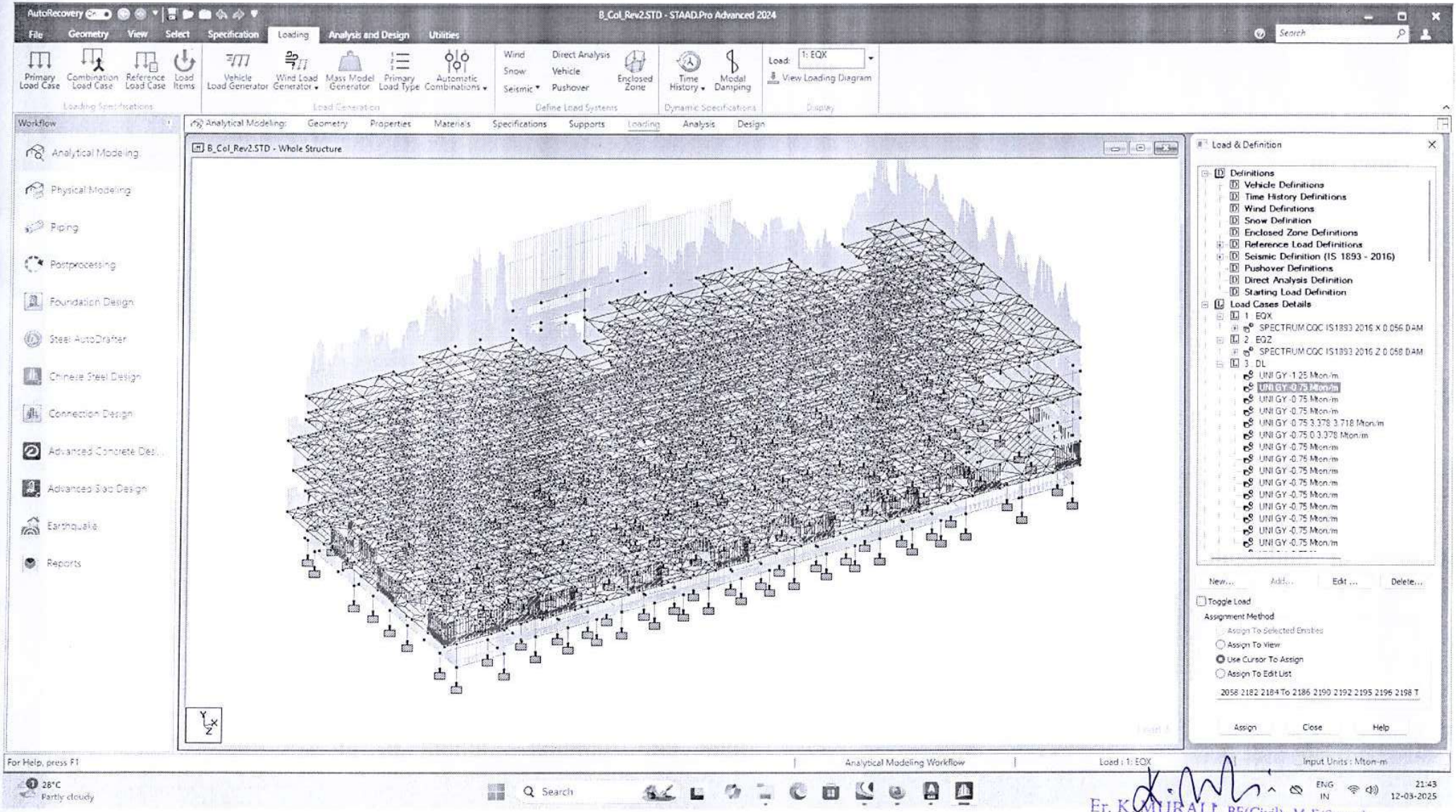
   Live Load:
   Floor Live load 0.2MT/Sqm
   Terrace Live Load 0.15MT/Sqm
   Machine room 0.3MT/sqm

   Seismic Load:
   Zone factor 0.16 for Zone III
   Response reduction factor 5
   Importance factor 1
   Rock and soil site factor 1
   Time period 0.6 seconds
   Depth of foundation 2m

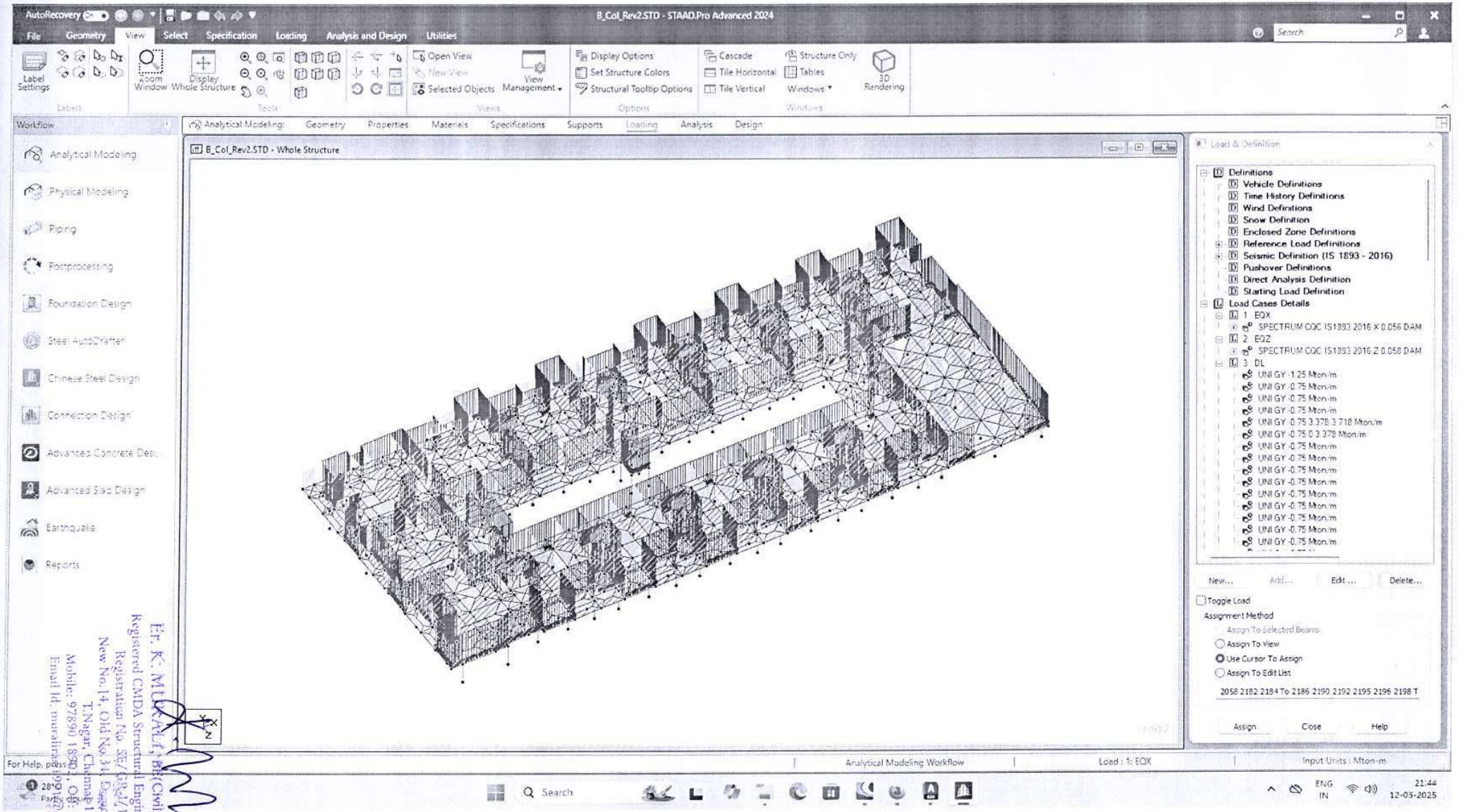
6. Analysis and Design:
   Structural Analysis and RCC Design using Staad Pro software

It is certified that the structure is "Structurally safe and sound"

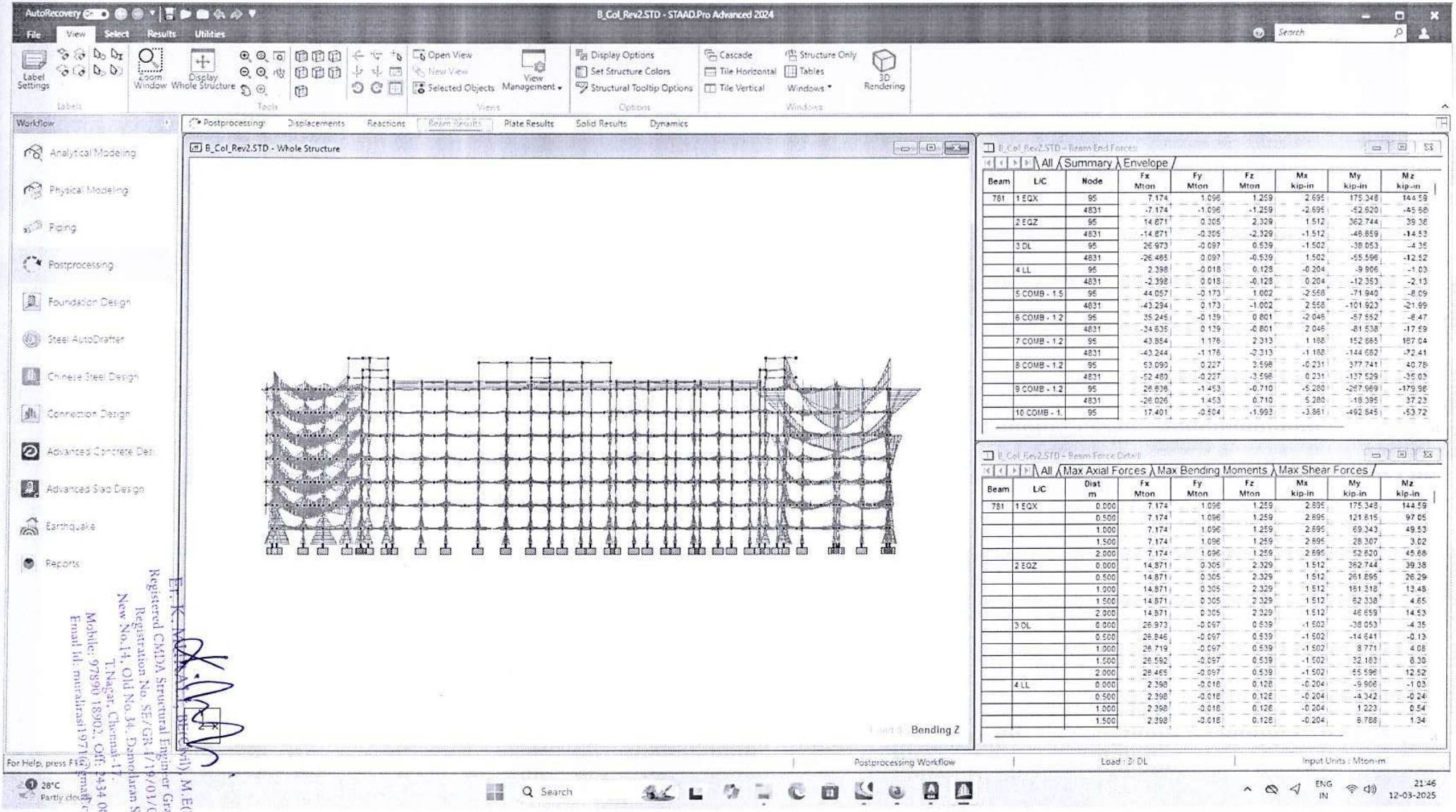
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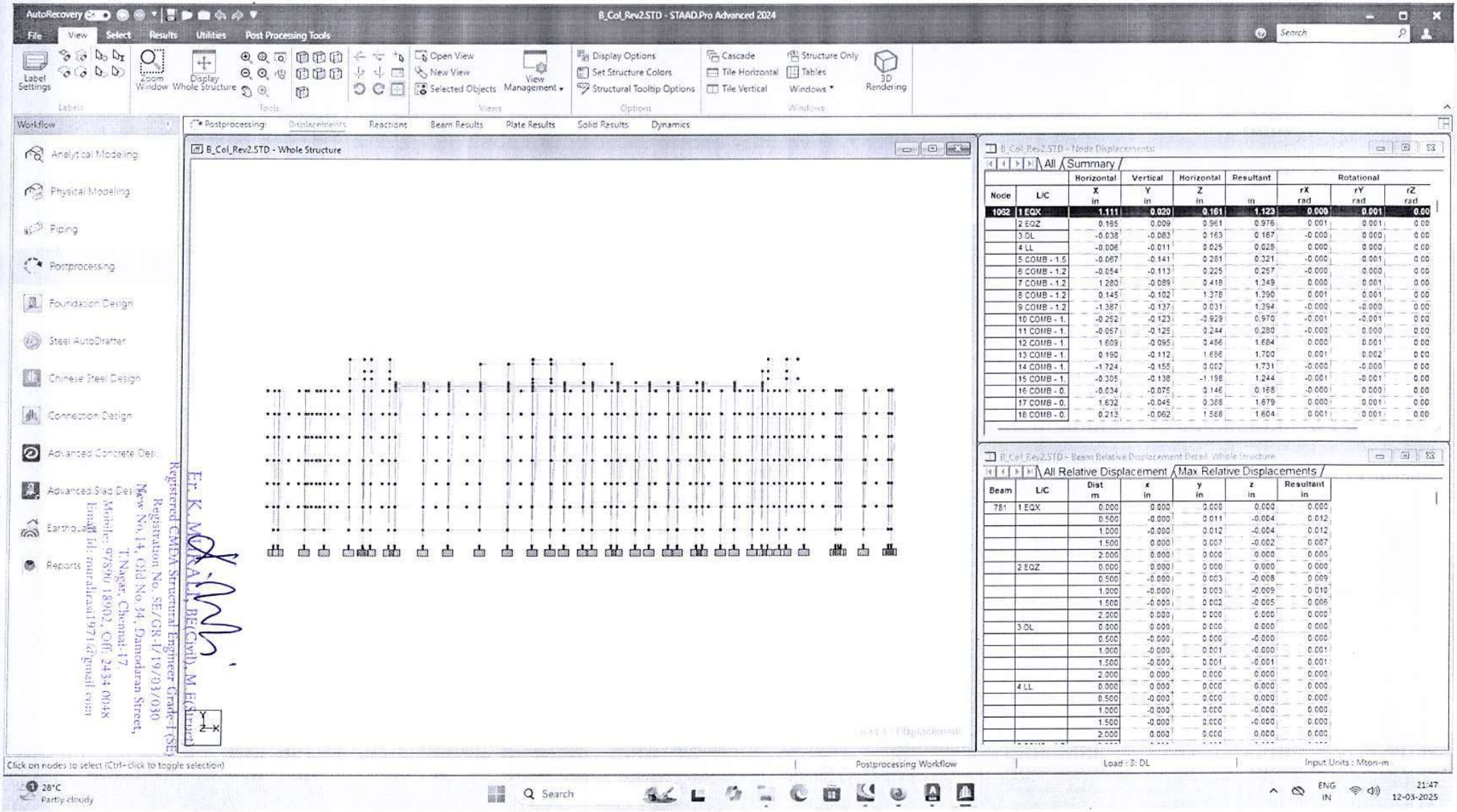
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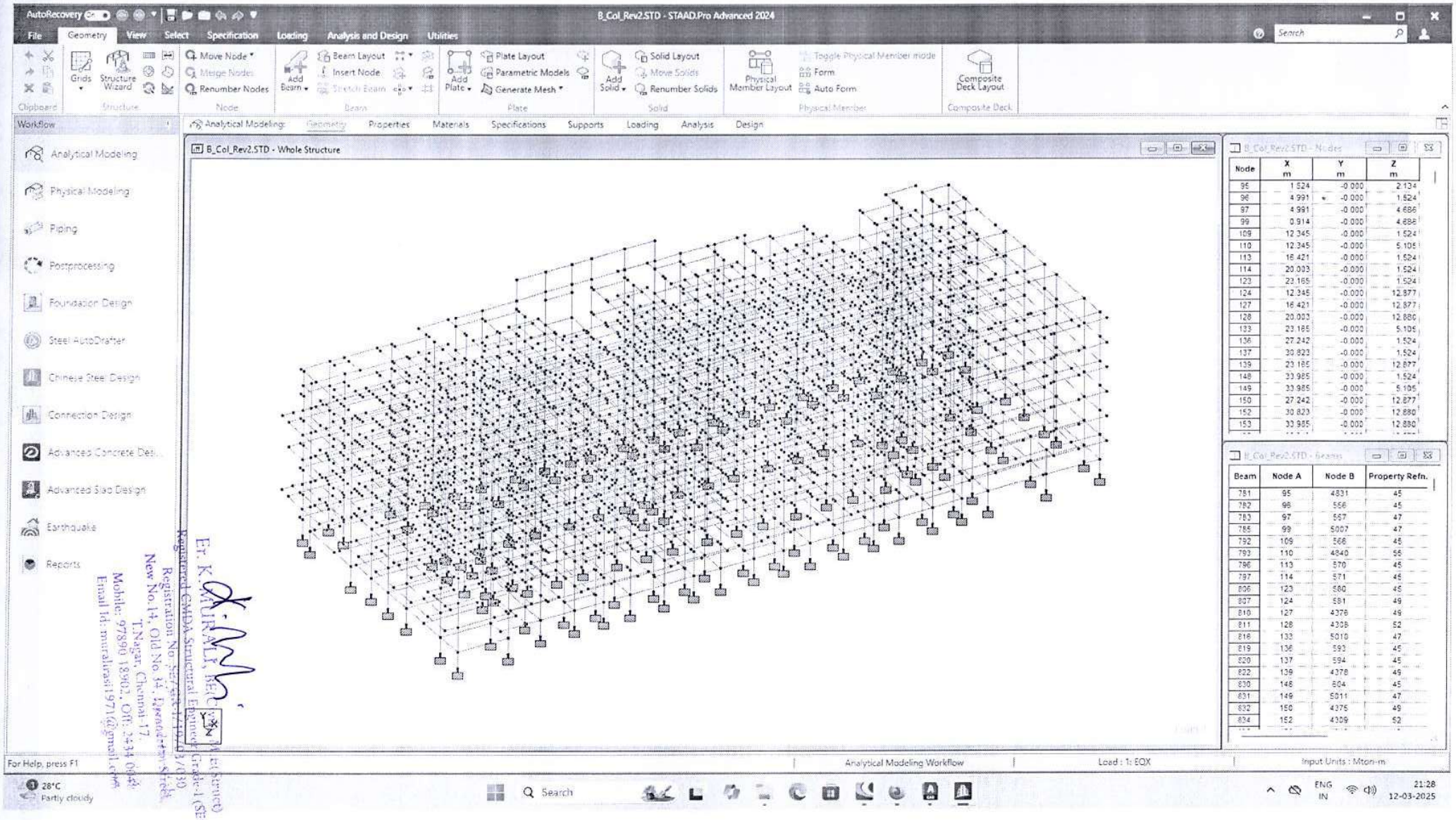
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B_Col_Rev2.STD - STAAD.Pro Advanced 2024
File
Geometry
View
Select
Specification
Loading
Analysis and Design
Utilities
Search
Grids
Structure Wizard
Move Node
Merge Nodes
Renumber Nodes
Add Beam
Beam Layout
Insert Node
Stretch Beam
Add Plate
Plate Layout
Parametric Models
Generate Mesh
Add Solid
Solid Layout
Move Solids
Renumber Solids
Physical Member Layout
Toggle Physical Member mode
Form
Auto Form
Composite Deck Layout
Workflow
Analytical Modeling
Physical Modeling
Piping
Postprocessing
Foundation Design
Steel AutoDrafter
Chinese Steel Design
Connection Design
Advanced Concrete Desi...
Advanced Slab Design
Earthquake
Reports
Analytical Modeling:
Geometry
Properties
Materials
Specifications
Supports
Loading
Analysis
Design
B_Col_Rev2.STD - Whole Structure
B_Col_Rev2.STD - Nodes
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X m
Y m
Z m
95 1.524 -0.000 2.134
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97 4.991 -0.000 4.686
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150 27.242 -0.000 12.877
152 30.823 -0.000 12.880
153 33.985 -0.000 12.880
B_Col_Rev2.STD - Beams
Beam
Node A
Node B
Property Refn.
781 95 4831 45
782 96 556 45
783 97 557 47
785 99 5007 47
792 109 566 45
793 110 4840 56
796 113 570 45
797 114 571 45
806 123 580 45
807 124 581 49
810 127 4376 49
811 128 4308 52
818 133 5010 47
819 136 593 45
820 137 594 45
822 139 4378 49
830 148 604 45
831 149 5011 47
832 150 4375 49
834 152 4309 52
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For Help, press F1
Analytical Modeling Workflow
Load : 1: EQX
Input Units : Mton-m
28°C
Partly cloudy
Search
ENG
IN
21:28
12-03-2025

RCDC 2023 - [bblock_footing-Footing-1.rcdx]

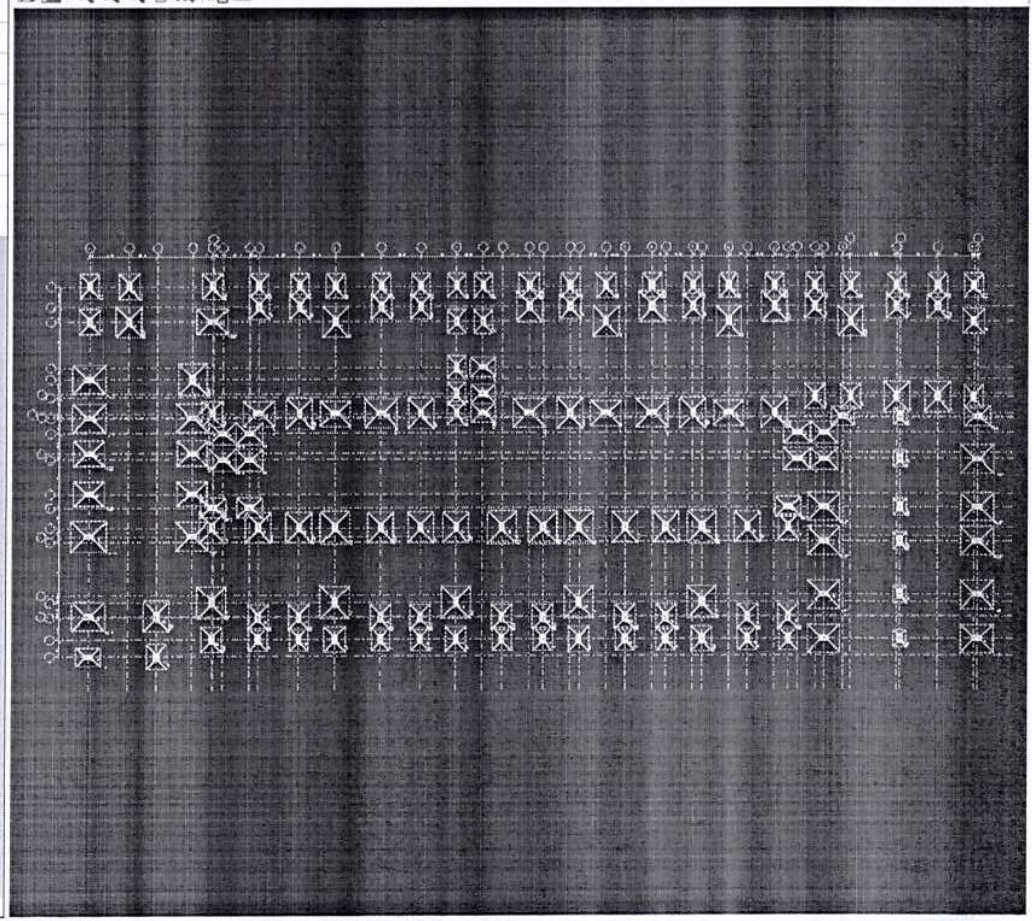
File Settings Design View Modify Reports BBS Help

Design Input | Design Output

Design

Grp. No.	Footing Mark	Column Mark	Footing Type	Material Property	Column Size (mm)	Footing Size (LxBxD) (mm)	Loss of contact (%)	Bottom @ L	Bottom @ B	Top
1	FC1	C1,C4,C5,C...	Sloped	M25 : Fe550	230 X 610	2100 x 1650 x 750 d = 150	0	#10 @ 125	#10 @ 125	
2	FC2	C2,C3,C11,...	Sloped	M25 : Fe550	230 X 610	2250 x 1800 x 750 d = 150	0	#10 @ 125	#10 @ 125	
3	FC27	C27,C29,C3...	Sloped	M25 : Fe550	230 X 610	2700 x 2250 x 975 d = 150	0	#10 @ 100	#10 @ 100	
4	FC47	C47,C48,C5...	Sloped	M25 : Fe550	230 X 610	2850 x 2550 x 1125 d = 150	0	#10 @ 100	#12 @ 125	
5	FC71	C71,C86,C9...	Sloped	M25 : Fe550	230 X 610	1500 x 1050 x 450 d = 150	0	#10 @ 225	#10 @ 200	
6	FC76	C76,C77,C7...	Sloped	M25 : Fe550	230 X 610	2400 x 1950 x 825 d = 150	0	#10 @ 125	#10 @ 100	
7	FC111	C111	Sloped	M25 : Fe550	230 X 610	3150 x 2700 x 1200 d = 150	0	#12 @ 125	#12 @ 125	

Layout



Ready

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21:34 12-03-2025

RCDC 2023 - [BblockFLBm-Beam-1-5 m.R4.rcdx]

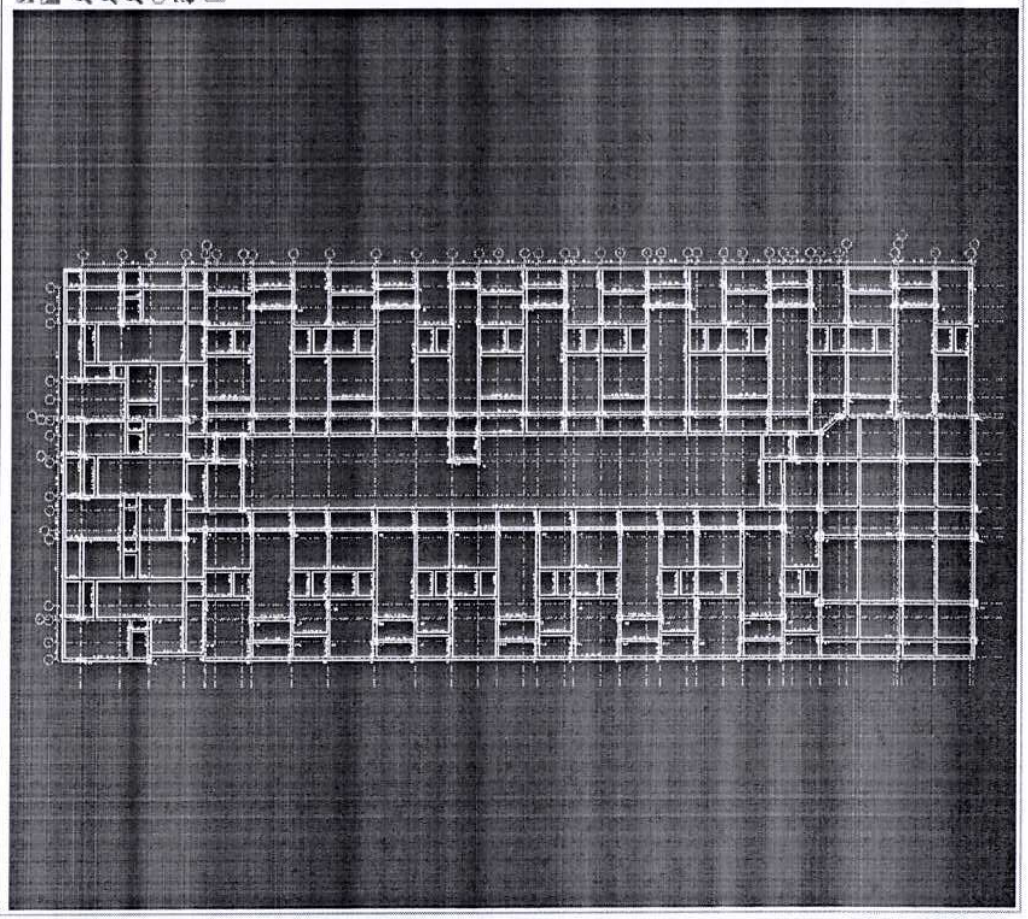
File Settings Design View Modify Reports BBS Help

Design Input | Design Output

Design Grouping | Beam Continuum

GRP	Beam Name	L x B x D (mm)	S m	Ductile	DF (mm)	Top (mm)
FB1	B-1	1409 x 230 x 460	8210	No	0	0
	B-2	3237 x 230 x 460	8206	No	0	0
	B-3	7124 x 230 x 460	8207,8208,8209	No	0	0
	B-4	3846 x 230 x 460	2589	No	0	0
	B-5	3352 x 230 x 460	2591	No	0	0
	B-6	2932 x 230 x 460	2593	No	0	0
	B-7	3847 x 230 x 460	2595	No	0	0
	B-8	3351 x 230 x 460	2597	No	0	0
	B-9	2932 x 230 x 460	2599	No	0	0
	B-10	2133 x 230 x 460	8205	No	0	0
	B-11	3846 x 230 x 460	2602	No	0	0
	B-12	3352 x 230 x 460	2604	No	0	0
	B-13	2932 x 230 x 460	2606	No	0	0
	B-14	3847 x 230 x 460	2608	No	0	0
	B-15	3351 x 230 x 460	2610	No	0	0
	B-16	2932 x 230 x 460	2612	No	0	0
	B-17	3847 x 230 x 460	2614	No	0	0
	B-18	3352 x 230 x 460	2616	No	0	0
	B-19	2932 x 230 x 460	2618	No	0	0
	B-20	3847 x 230 x 460	2620	No	0	0
	B-21	3351 x 230 x 460	2622	No	0	0
	B-22	2932 x 230 x 460	2624	No	0	0
FB2	B-23	1409 x 230 x 460	2882	No	0	0
	B-24	3237 x 230 x 610	2182	Yes	0	0
	B-25	7124 x 230 x 610	2191,2195,2196	Yes	0	0
FB3	B-26	3352 x 230 x 380	2202	Yes	0	0
FB4	B-27	3351 x 230 x 380	2232	Yes	0	0
FB5	B-28	2133 x 230 x 380	2283	Yes	0	0
FB6	B-29	3352 x 230 x 380	2310	Yes	0	0
FB7	B-30	3351 x 230 x 380	2344	Yes	0	0
FB8	B-31	3352 x 230 x 380	2384	Yes	0	0
FB9	B-32	3351 x 230 x 380	2413	Yes	0	0
FB10	B-33	3846 x 230 x 380	2200	No	0	0
FB11	B-34	3847 x 230 x 380	2229	No	0	0
FB12	B-35	3846 x 230 x 380	2281	No	0	0
FB13	B-36	3847 x 230 x 380	2342	No	0	0
FB14	B-37	3847 x 230 x 380	2382	No	0	0
FB15	B-38	3847 x 230 x 380	2	No	0	0

Layout



Ready

IS 456 : 2000 + IS 13920 : 2016

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21:38 12-03-2025

RCDC 2023 - [bblock-Slab-1-5 m.R1.rcdx]

File Settings Design View Modify Reports BBS Help

Design Input | Design Output

Design

No	Slab	Thickness (mm)	Conc Grade	Steel Grade	Bottom @ Lx	Bottom @ Ly	Top @ Lx (Cont)	Top @ Lx (End)	Top @ Ly (Cont)	Top @ Ly
1	S6	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
2	S8	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
3	S13	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
4	S14	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
5	S15	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
6	S16	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	#10 @ 200	--
7	S17	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	#10 @ 200	--
8	S18	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
9	S27	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
10	S28	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
11	S30	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	--	--
12	S31	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
13	S32	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	--	--
14	S33	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	--	--
15	S34	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	--	--
16	S35	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	--	--
17	S37	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
18	S38	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
19	S39	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
20	S40	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
21	S41	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
22	S42	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
23	S49	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	#10 @ 200	#10 @
24	S65	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
25	S67	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
26	S68	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
27	S69	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
28	S70	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
29	S71	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
30	S72	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
31	S76	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
32	S77	120	M30	Fe550	#10 @ 200	#10 @ 200	#10 @ 200	--	--	--
33	S78	120	M30	Fe550	#10 @ 200	#10 @ 200	--	--	#10 @ 200	--
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Slab Layout

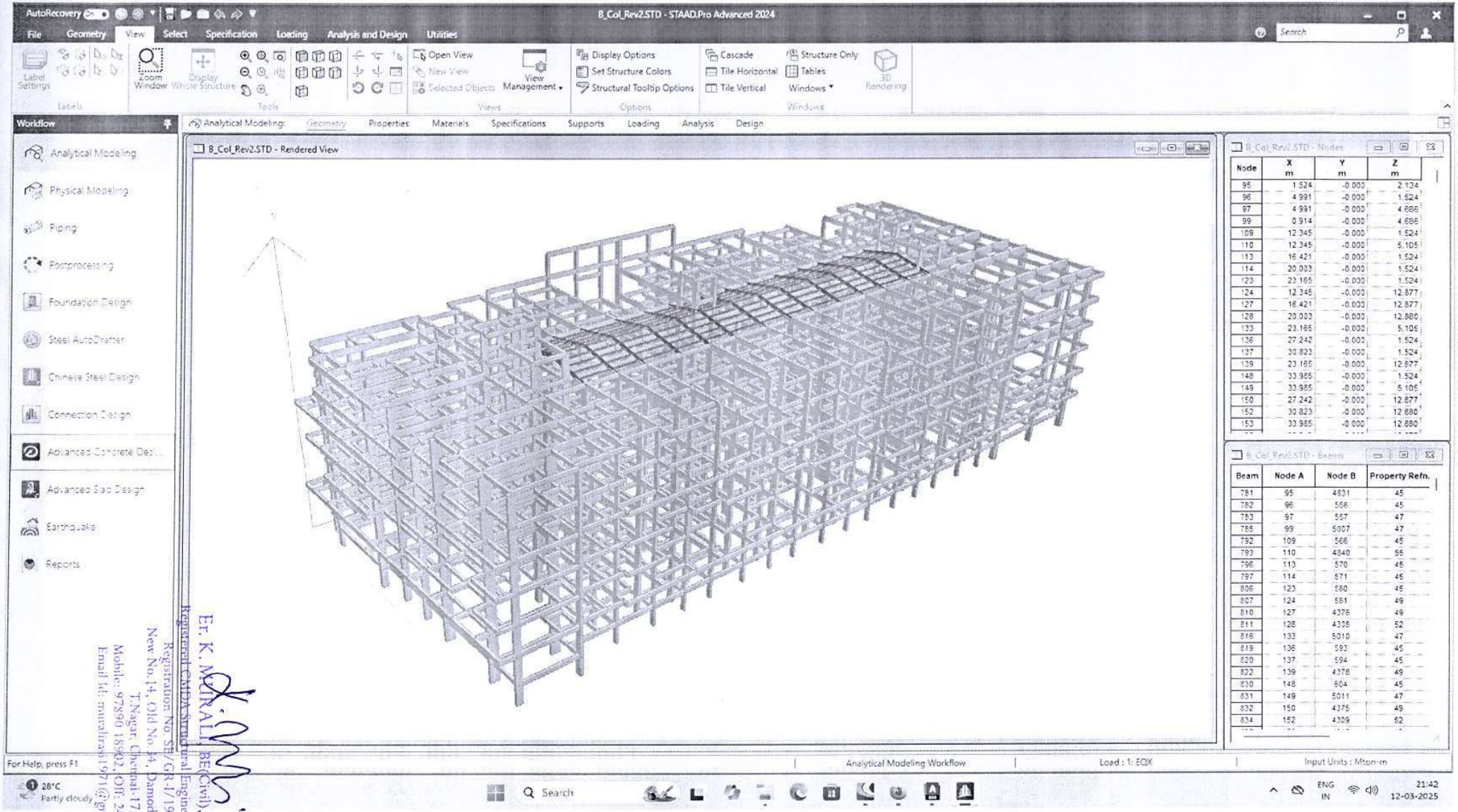
IS 456 : 2000 + IS 13920 : 2016

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Search

ENG IN 21:41 12-03-2025



Node	X m	Y m	Z m
95	1.524	-0.000	2.134
96	4.991	-0.000	1.524
97	4.991	-0.000	4.686
99	0.914	-0.000	4.686
109	12.345	-0.000	1.524
110	12.345	-0.000	5.105
113	16.421	-0.000	1.524
114	20.003	-0.000	1.524
123	23.165	-0.000	1.524
124	12.345	-0.000	12.877
127	16.421	-0.000	12.877
128	20.003	-0.000	12.880
133	23.165	-0.000	5.105
136	27.242	-0.000	1.524
137	30.823	-0.000	1.524
139	23.165	-0.000	12.877
148	33.985	-0.000	1.524
149	33.985	-0.000	5.105
150	27.242	-0.000	12.877
152	30.823	-0.000	12.880
153	33.985	-0.000	12.880

Beam	Node A	Node B	Property Refn.
781	95	4831	45
782	96	556	45
783	97	557	47
785	99	5007	47
792	109	566	45
793	110	4840	55
796	113	570	45
797	114	571	45
806	123	580	45
807	124	581	49
810	127	4378	49
811	128	4308	52
816	133	5010	47
819	136	592	45
820	137	594	45
822	139	4378	49
830	148	604	45
831	149	5011	47
832	150	4375	49
834	152	4309	52

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