

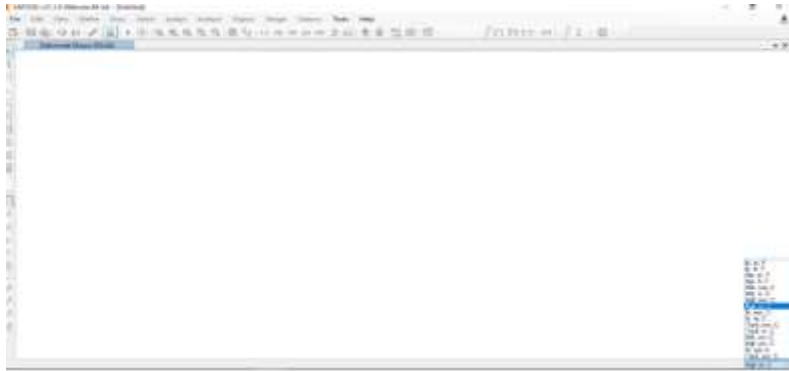
LAMPIRAN

3.1 HASIL TEST NSP-T

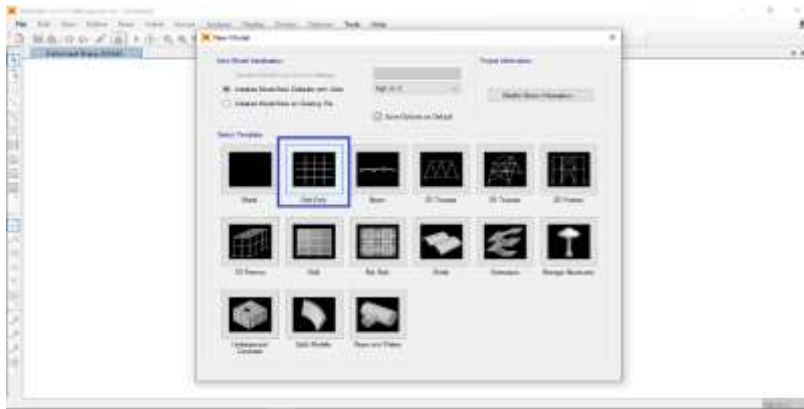
TESTANA ENGINEERING, Inc.		A.1. BORING LOG		BOREHOLE #: DB-1										
PROJECT: The Batu Villas, 8 lantai.		DATE OF TESTING: 15-17 April 2019		GROUND WATER LEVEL: -8.00 m.										
LOCATION: J. Sultan Agung no. 28, Batu.		DEPTH: 25.00 m		GROUND SURFACE LEVEL: ± 0.00 m.										
DEPTH (m)	SOIL DESCRIPTION	STANDARD PENETRATION TEST				STRENGTH TEST		ATTERBERG LIMITS						
		0-15	15-30	30-45	45-60	qc	su	f	Ca	w _L	w _p	IP	SR	
0														
0.5	Silt and clay, dark brown, inorganic, trace of sand, contain cobble (ø12 cm) at 3 m depth, soft consistency													
1.0														
1.5	Silt, dark brown, little of fine sand													
2.0														
2.5	Silt and clay, dark brown, inorganic, trace of sand, soft consistency													
3.0														
3.5	Silt and sand, brown, moderately cemented at some depths													
4.0														
4.5	Sand, brown to greyish brown, fine to medium grained, contain gravel at some depths, medium to very dense													
5.0														
5.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
6.0														
6.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
7.0														
7.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
8.0														
8.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
9.0														
9.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
10.0														
10.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
11.0														
11.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
12.0														
12.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
13.0														
13.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
14.0														
14.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
15.0														
15.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
16.0														
16.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
17.0														
17.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
18.0														
18.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
19.0														
19.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
20.0														
20.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
21.0														
21.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
22.0														
22.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
23.0														
23.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
24.0														
24.5	Sand, grey, fine to coarse grained, some of gravel, contain cobble (ø10 cm at 17.5 m depth and ø12 cm at 19 m depth, very dense													
25.0														
25.0	End of boring													

NOTES: 5 to 10 % = Trace 10 to 20 % = Little 20 to 35 % = Some 35 to 50 % = Med	[Symbol] = This label [Symbol] = SPT C = Cohesion (kN/cm ²) α = Internal friction angle, deg	[Symbol] = Unconsolidated undisturbed [Symbol] = Consolidated undisturbed [Symbol] = Consolidated disturbed SPT = Standard penetration test (blows/ft) su = Unconfined compressive strength (kg/cm ²)
		□ = Moisture content, % [Symbol] = Plastic limit, % [Symbol] = Liquid limit, % I = Soil density, kg/m ³ G _s = Specific gravity SR = Soil color

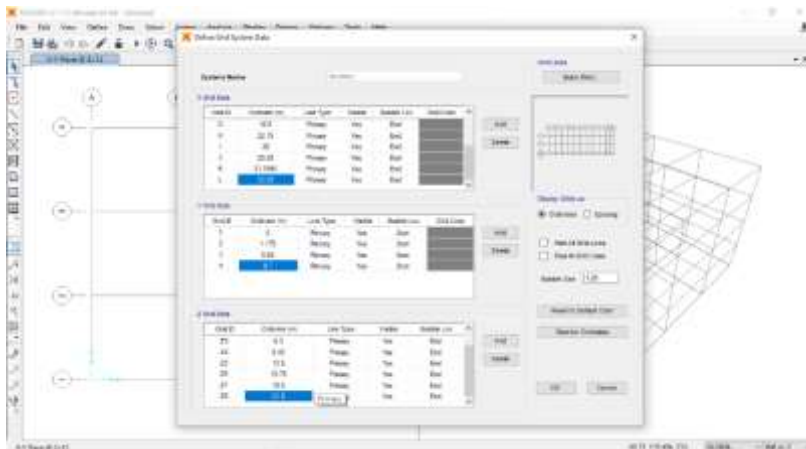
4.1 Satuan Permodelan SAP 2000 v21



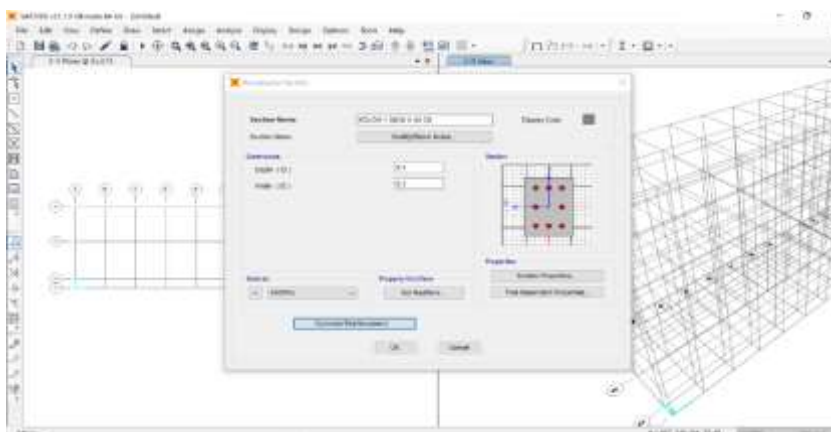
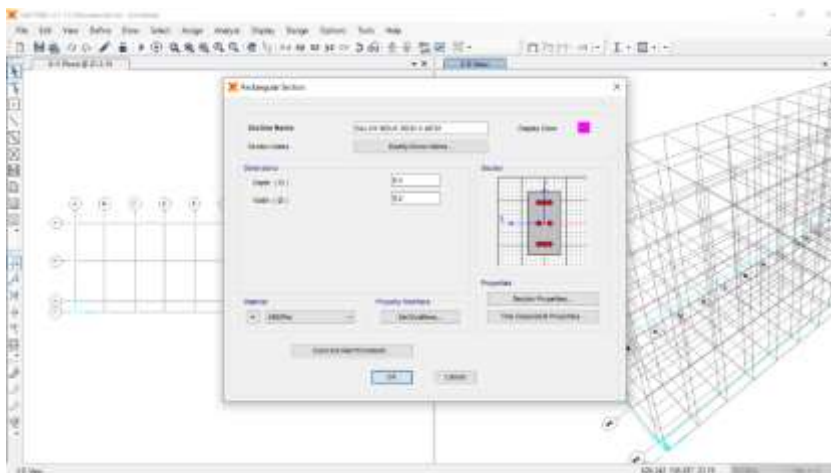
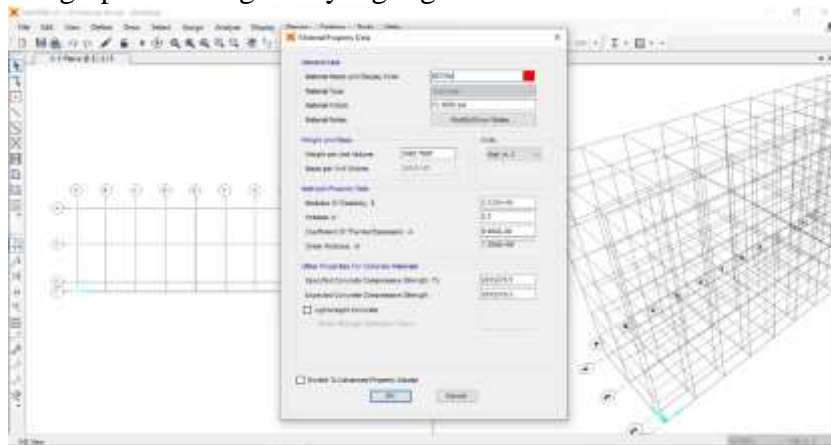
4.2 Permodelan SAP 2000 v21



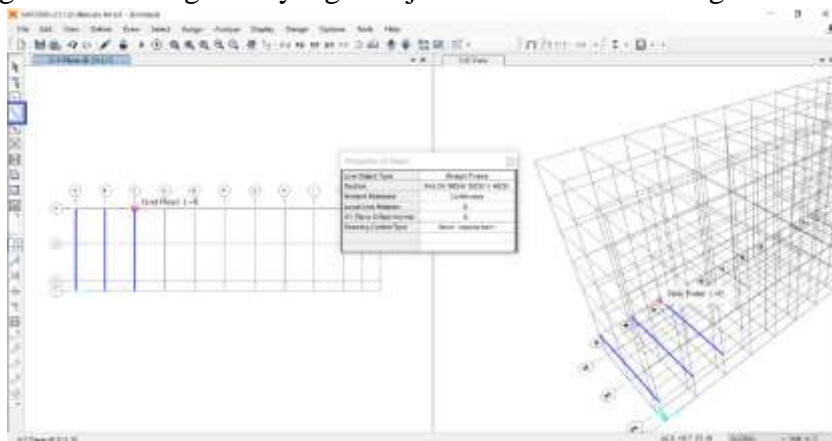
4.3 Dimensi Bangunan yang digunakan



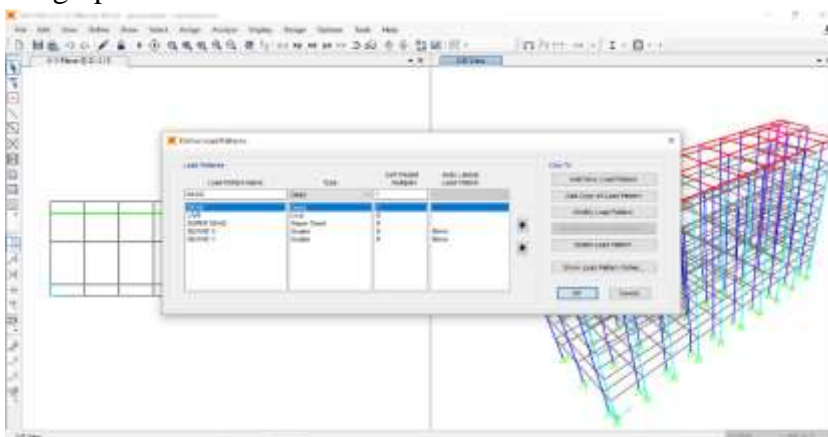
4.4 Penginputan Bangunan yang digunakan



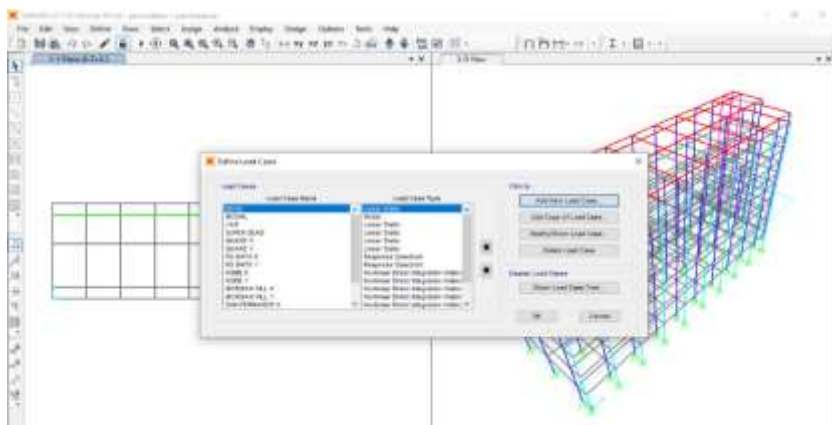
4.5 Penggambaran Bangunan yang ditinjau sesuai Dimensi Bangunan



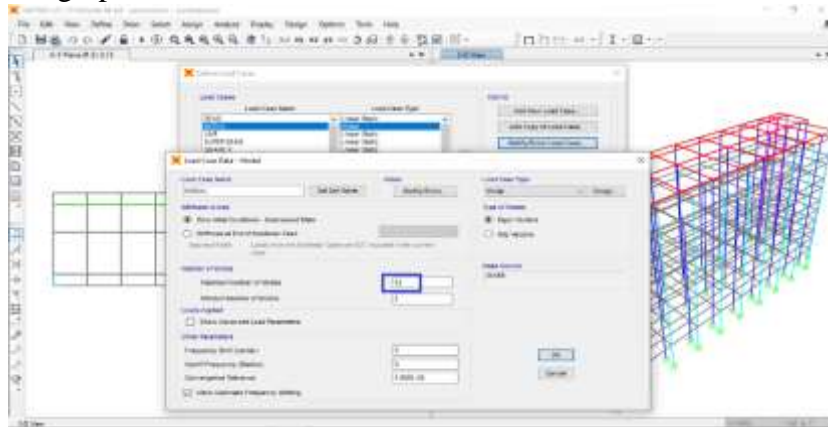
4.6 Penginputan Load Pattern



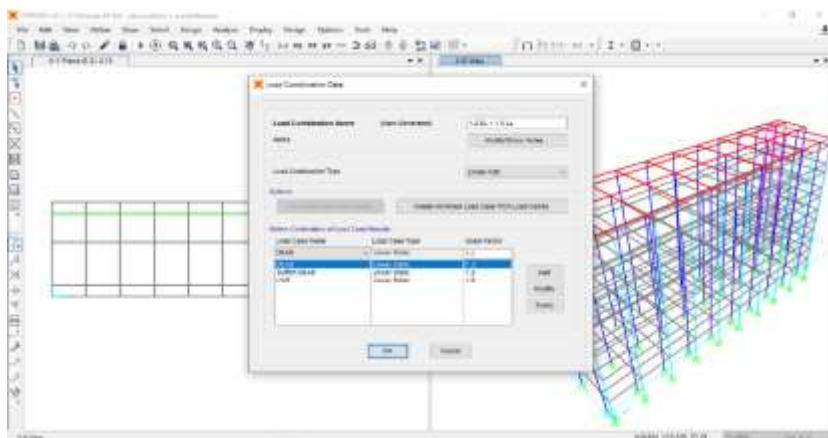
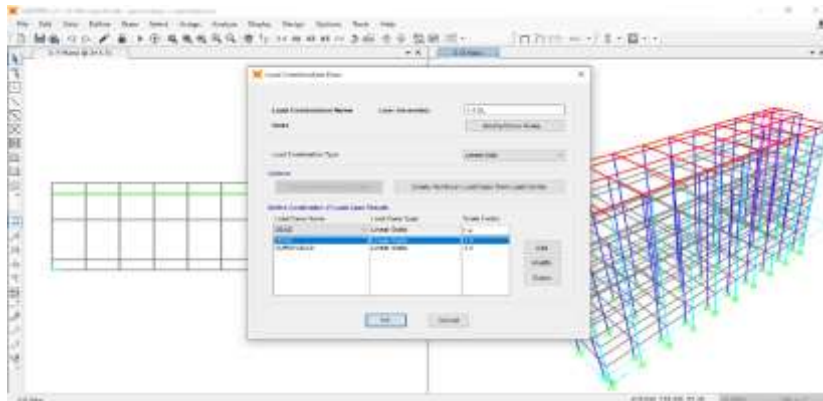
4.7. Penginputan Load Case

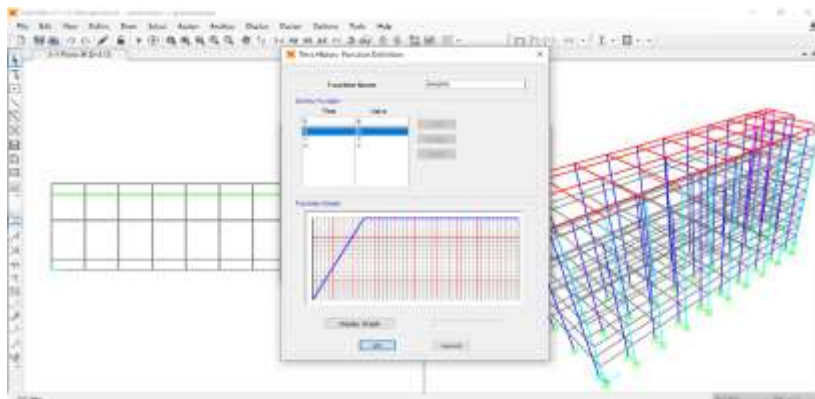
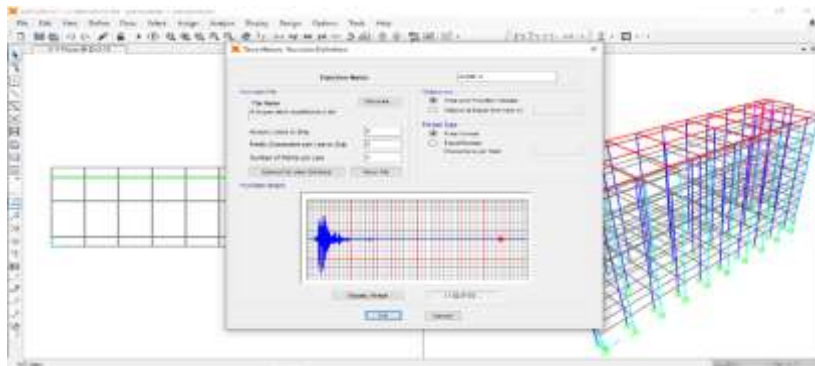
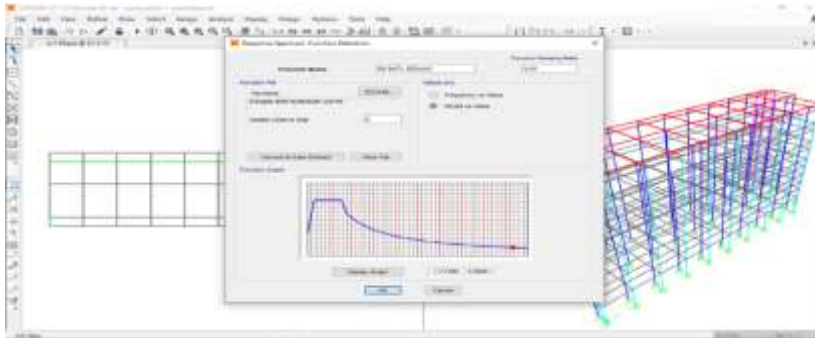


4.8. Penginputan *Load Case Modes*

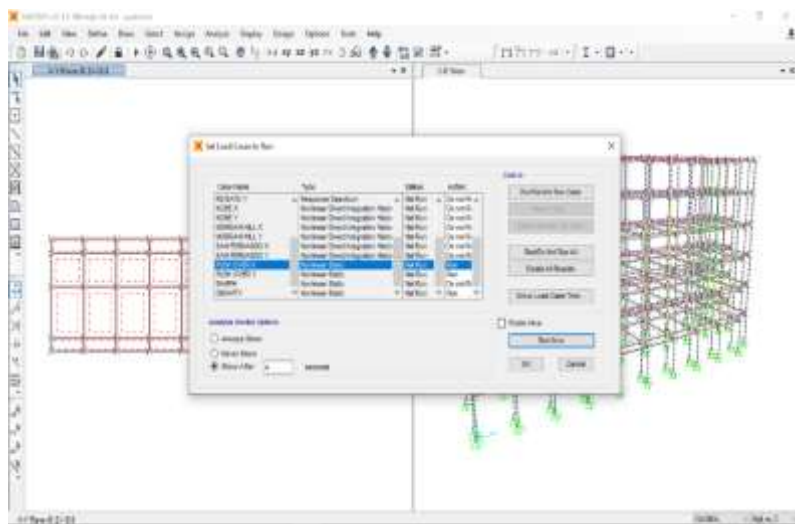
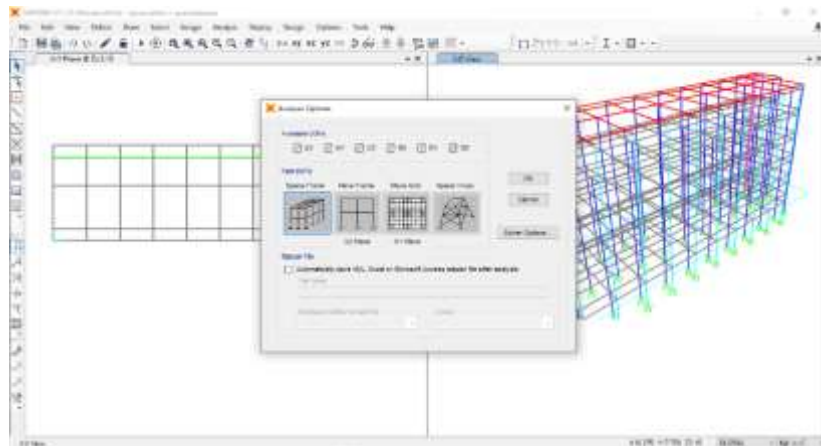


4.9. Penginputan *Load Combinations*

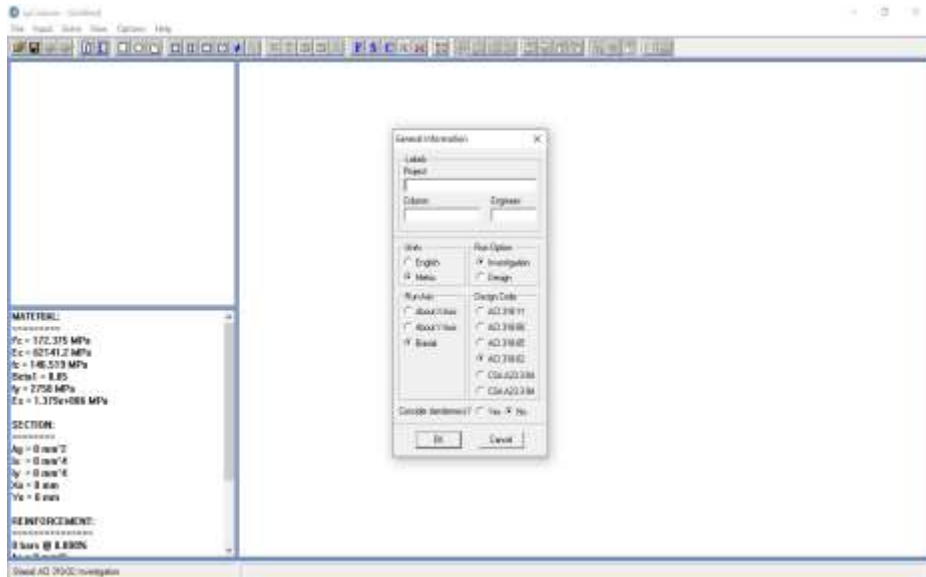


4.10. Penginputan Response Spektrume, *Time History*, dan *Ramp Function*

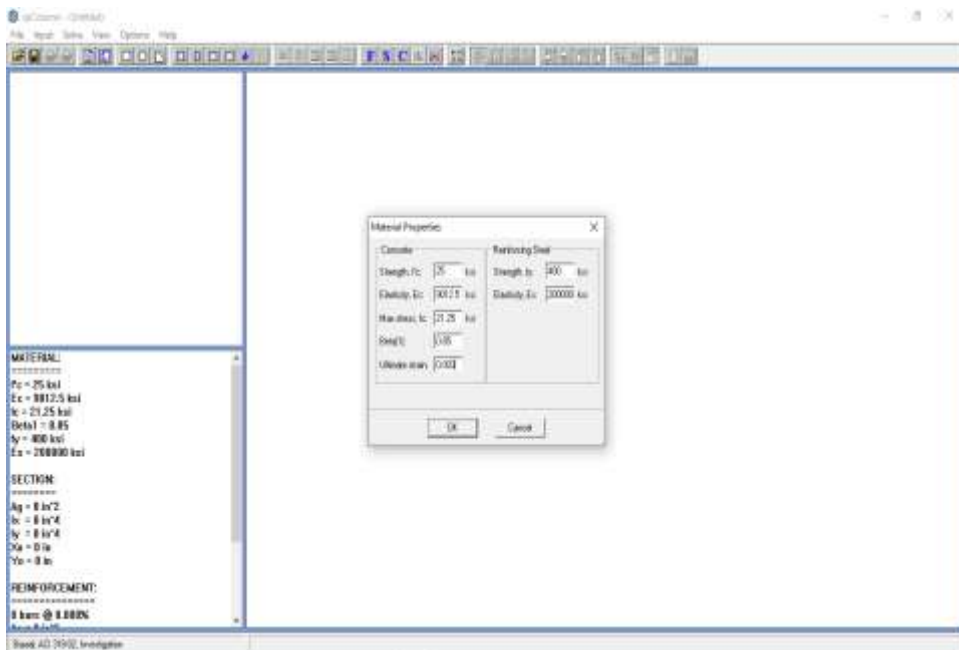
4.11. Running Permodelan



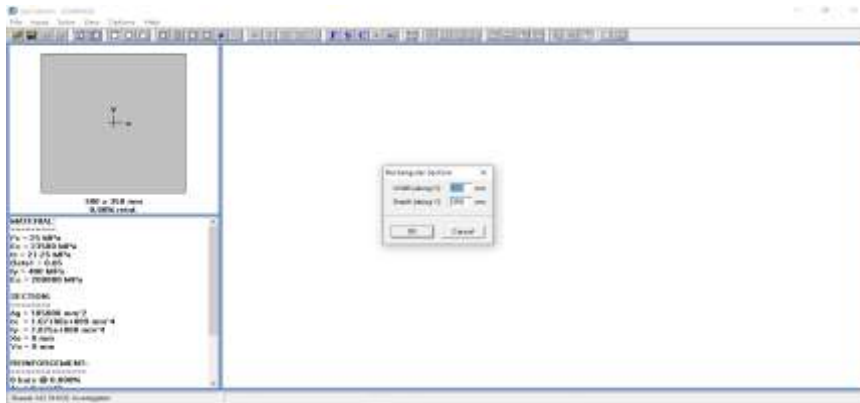
4.15. General information



4.16. Material properties



4.17. *Input Section* tulangan yang digunakan pada bangunan



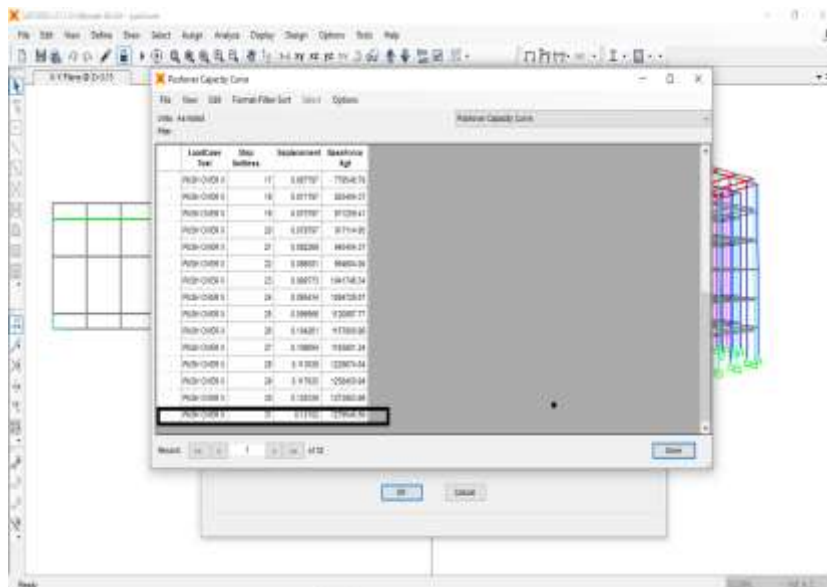
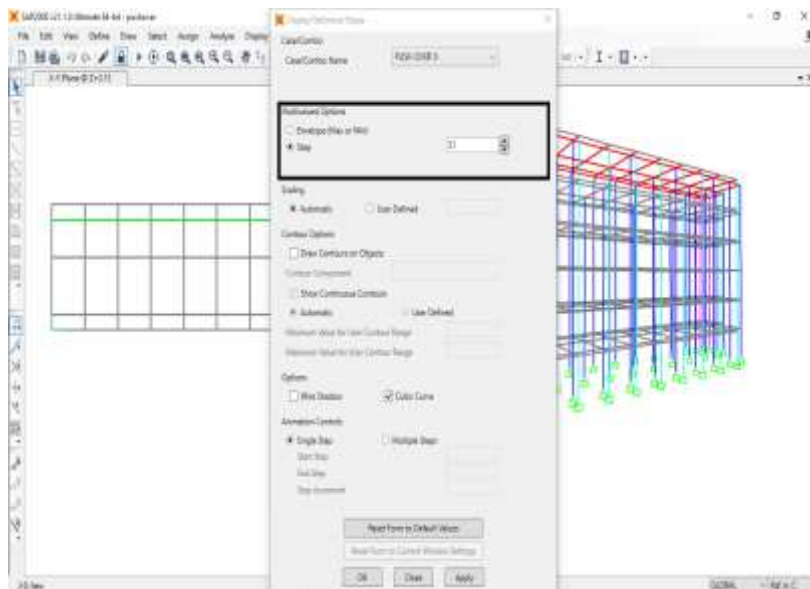
4.18. *Input Detail* tulangan yang digunakan bangunan



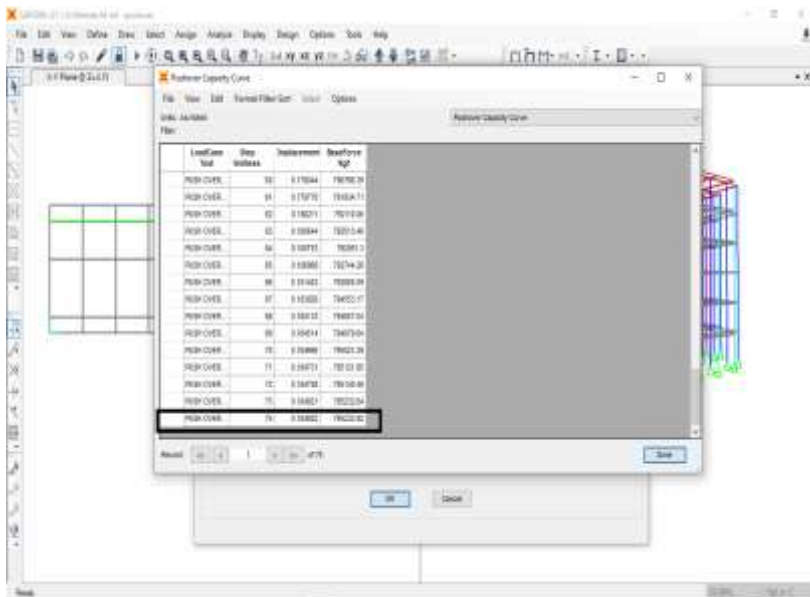
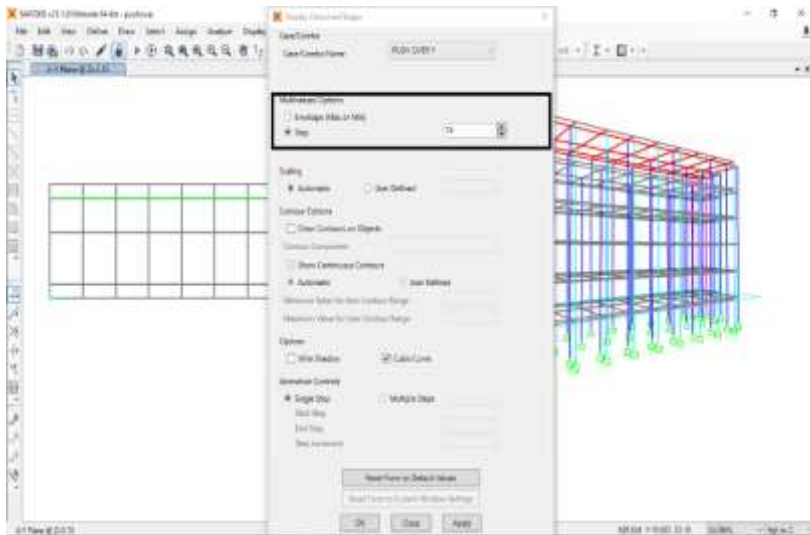
4.19. *Input Detail* tulangan yang digunakan bangunan



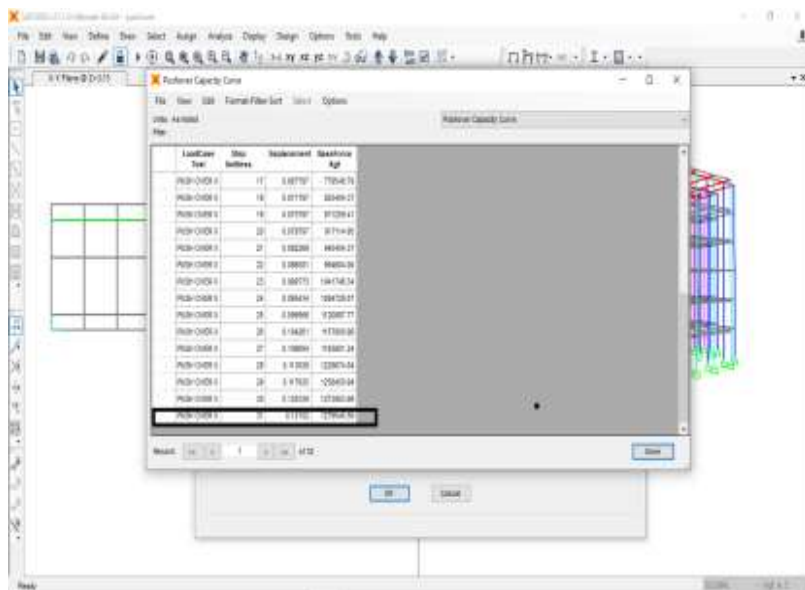
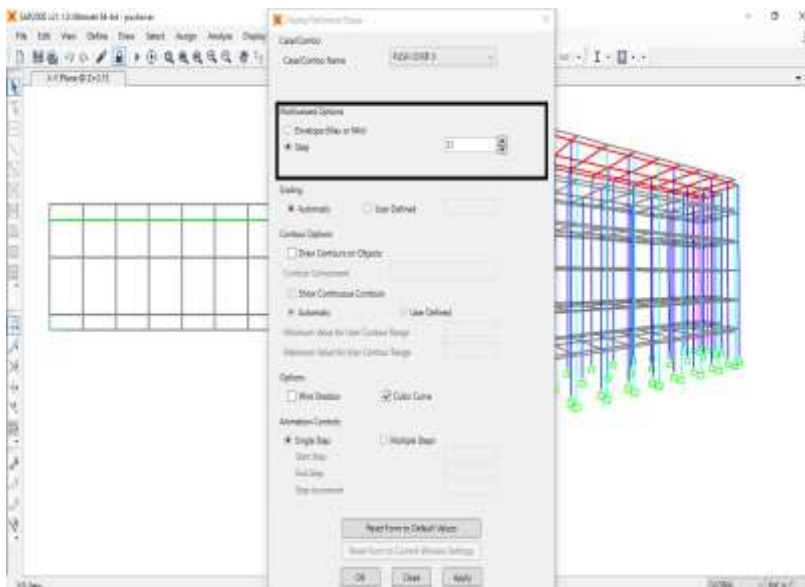
4.20. Output Displacement dan Gaya Geser arah X sesuai SNI 03-1726-2012



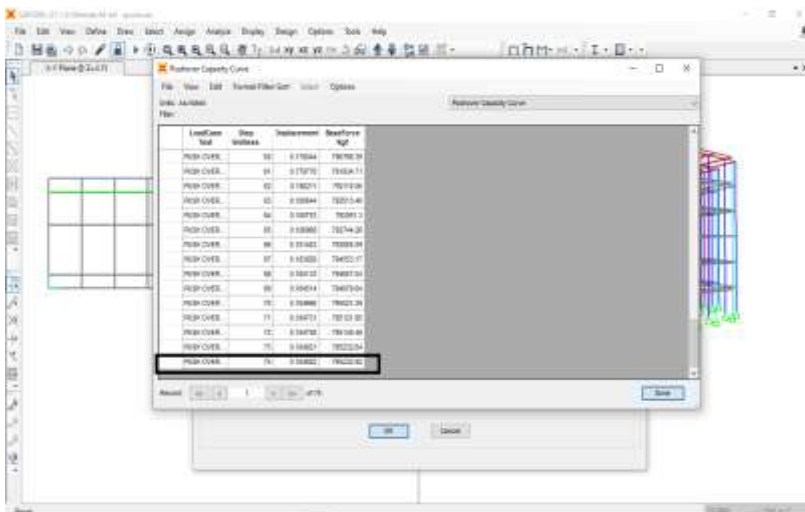
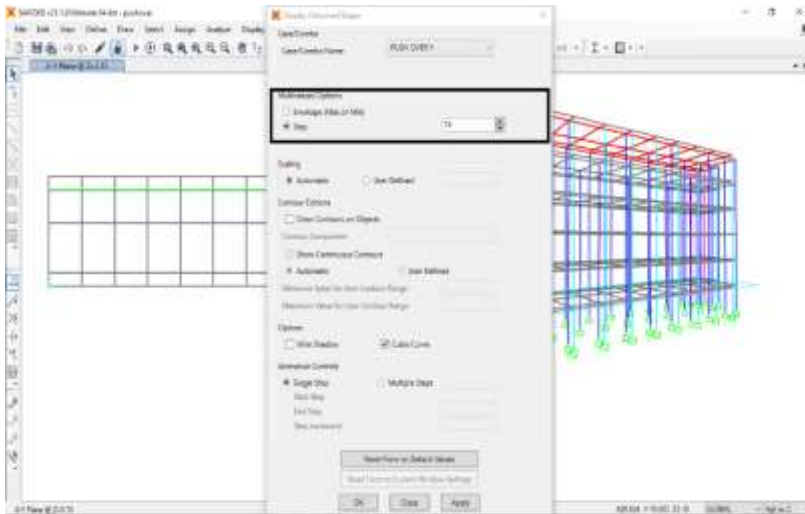
4.21. *Output Displacement dan Gaya Geser arah Y sesuai SNI 03-1726-2012*



4.22. *Output Displacement* dan Gaya Geser arah Y sesuai SNI 03-1726-2019



4.23. Output Displacement dan Gaya Geser arah Y sesuai SNI 03-1726-2019



4.24. Masuk Website dan Sig in pada Peer Berkley



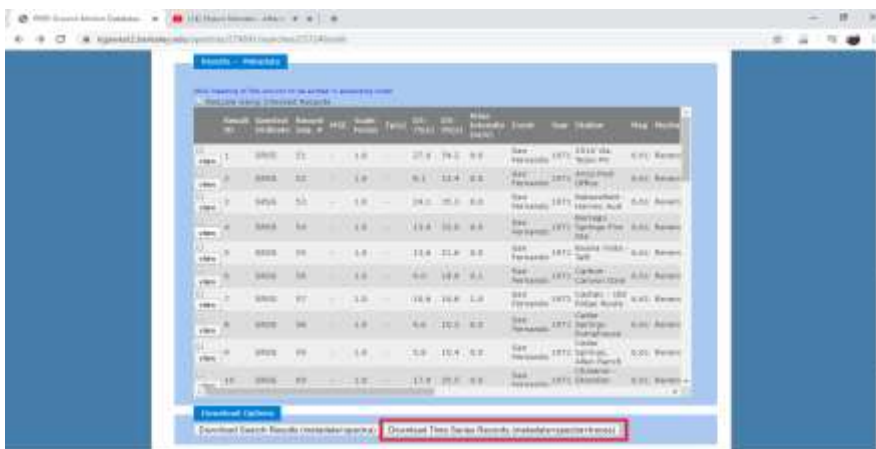
4.25. Target Spectrum Model



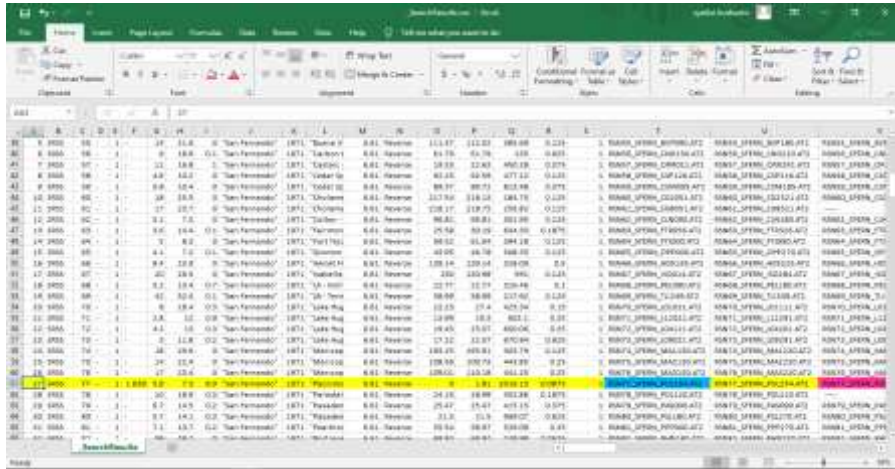
4.26. Target Spectrum yang ditinjau



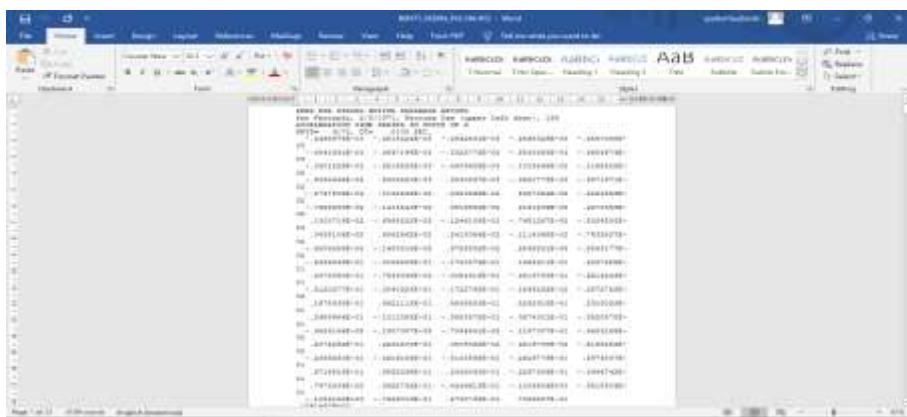
4.27. Download Target Spectrum



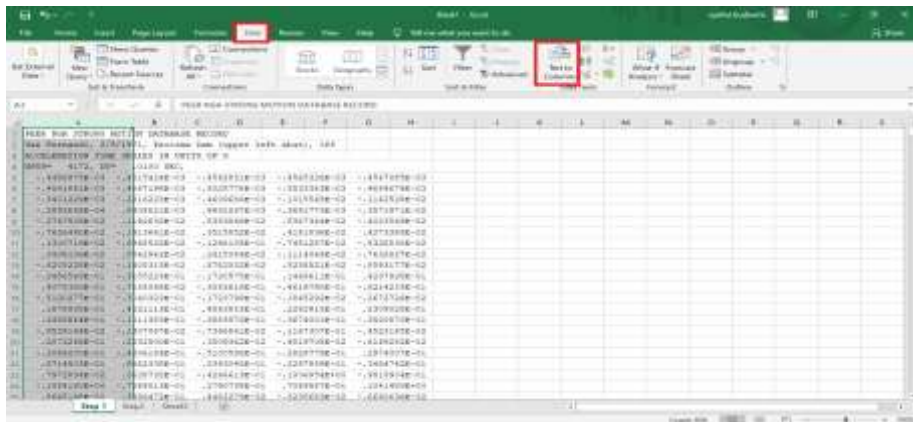
4.28. File Target Spectrum pada Software Ms. Excel



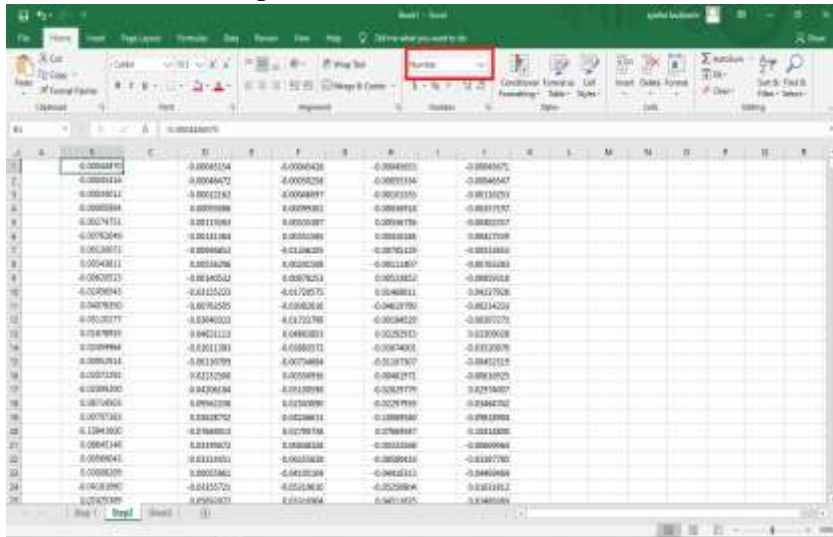
4.29. Open File Target Spectrum yang ditinjau ke Ms.Excell



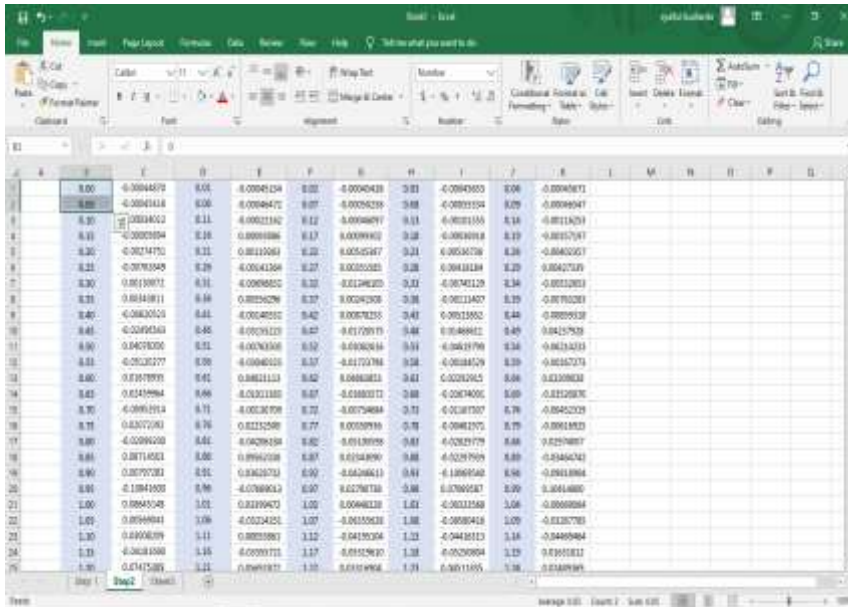
4.30. Paste File Target Spectrum ke Ms.Excell



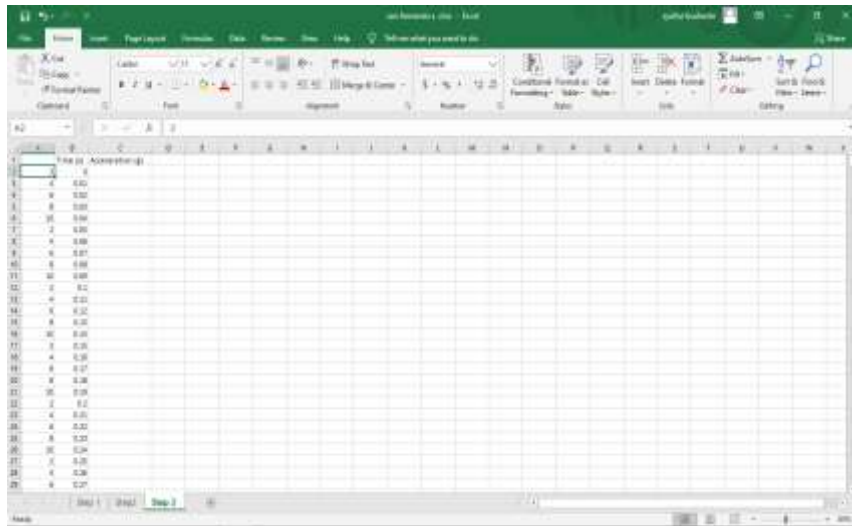
4.31. Penambahan kolom pada Ms.Excell



4.32. Input nilai T=0,01



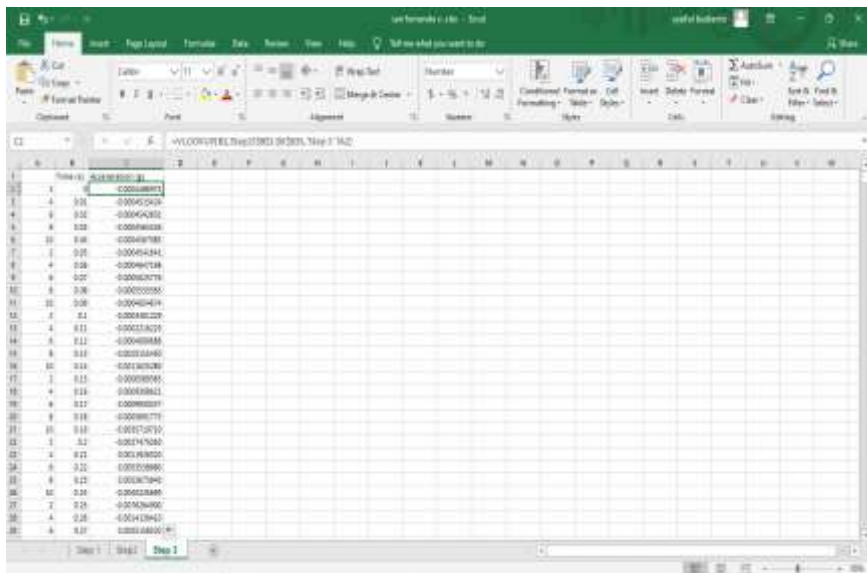
4.33. Menentukan nilai *Time*, dan *Acceleration*



The screenshot shows an Excel spreadsheet with a table of data. The first column is labeled 'Time (s)' and the second column is labeled 'Acceleration (m/s^2)'. The data points are as follows:

Time (s)	Acceleration (m/s ²)
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00

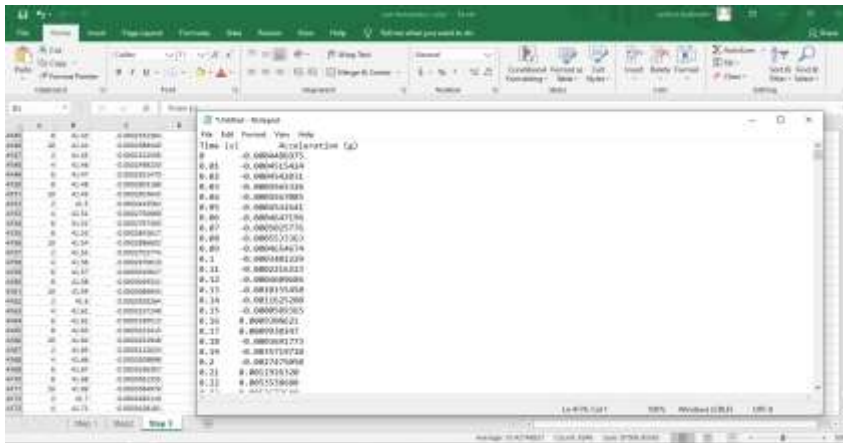
4.34. Input nilai *Acceleration*



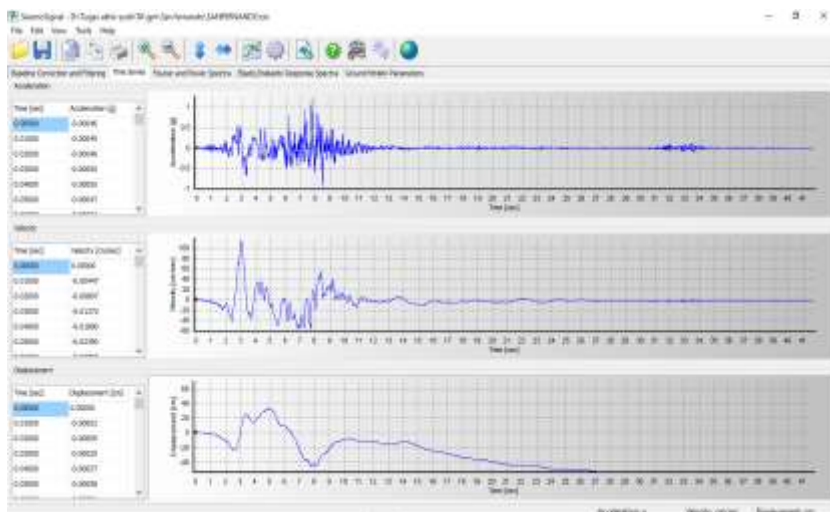
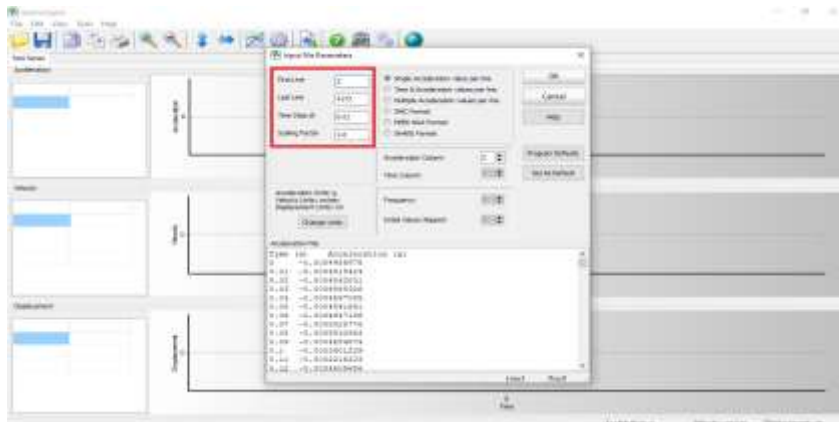
The screenshot shows an Excel spreadsheet with a table of data. The first column is labeled 'Time (s)' and the second column is labeled 'Acceleration (m/s^2)'. The data points are as follows:

Time (s)	Acceleration (m/s ²)
1	0.0000000000
2	0.0000000000
3	0.0000000000
4	0.0000000000
5	0.0000000000
6	0.0000000000
7	0.0000000000
8	0.0000000000
9	0.0000000000
10	0.0000000000
11	0.0000000000
12	0.0000000000
13	0.0000000000
14	0.0000000000
15	0.0000000000
16	0.0000000000
17	0.0000000000
18	0.0000000000
19	0.0000000000
20	0.0000000000
21	0.0000000000
22	0.0000000000
23	0.0000000000
24	0.0000000000
25	0.0000000000
26	0.0000000000
27	0.0000000000
28	0.0000000000
29	0.0000000000

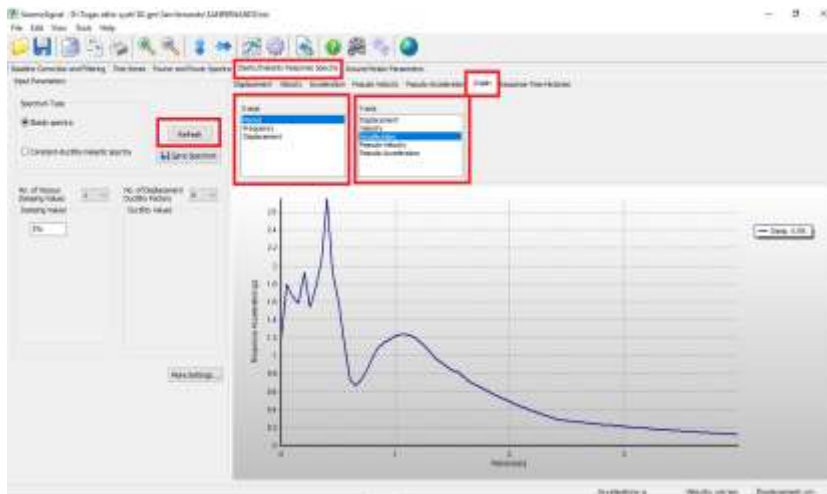
4.35. Copy file ke Notepad



4.36. Input Nilai Ground Motion pada Software Seismosignal



4.37. Graphic Response Spectrum Dari Ground Motion



4.38. Output Software Seismosignal

San Fernando X		San Fernando Y	
Time (s)	Acceleration (g)	Time (s)	Acceleration (g)
0	1.219	0	1.2581
0.02	1.9376	0.02	1.2554
0.03	1.6888	0.03	1.6793
0.04	1.7725	0.04	1.6387
0.05	1.9487	0.05	1.2974
0.06	1.1458	0.06	1.6596
0.07	2.0126	0.07	1.188
0.08	1.0579	0.08	1.5612
0.09	2.0088	0.09	1.2829
0.1	1.8914	0.1	1.0777
0.11	1.0117	0.11	1.7888
0.12	1.7692	0.12	1.7798
0.13	2.1188	0.13	1.9075
0.14	1.4089	0.14	1.1888
0.15	2.0587	0.15	1.0658
0.16	1.885	0.16	1.6771
0.17	1.8688	0.17	1.6771
0.18	1.7118	0.18	1.9968
0.19	1.9595	0.19	1.9551
0.2	1.7517	0.2	1.7983
0.21	1.4598	0.21	1.6187
0.21	1.607	0.21	1.9684

4.39. Range periode Fundamental bangunan

The screenshot shows an Excel spreadsheet with three columns of data. The first column is labeled 'Tahun Periode' and contains values from 1981 to 2000. The second and third columns also contain numerical data for the same years. Several rows are highlighted in yellow, indicating specific data points or trends.

4.40. Penskalaan ASNI Response Spectrume

This screenshot displays an Excel spreadsheet with multiple columns of data. The columns are labeled 'Tahun Periode' and contain numerical values. The data is organized in a structured manner, with some cells highlighted in yellow. The spreadsheet appears to be a detailed calculation or data analysis tool.

a. Scale Factor

The screenshot shows an Excel spreadsheet with several columns of data. The columns are labeled 'Tahun Periode' and contain numerical values. The data is organized in a structured manner, with some cells highlighted in yellow. The spreadsheet appears to be a detailed calculation or data analysis tool.

4.42. Scale Factor x Ground Motion scaled

The screenshot shows an Excel spreadsheet with the following data structure:

Time (s)	Accel (g)	Time (s)	Accel (g)	Time (s)	Accel (g)	Time (s)	Accel (g)
0.00	-0.00000000	0.00	0.00117683	0.00	0.00000000	0.00	0.00000000
0.01	-0.00000000	0.01	0.00117701	0.01	-0.00000000	0.01	0.00000000
0.02	-0.00000000	0.02	0.00117719	0.02	-0.00000000	0.02	0.00000000
0.03	-0.00000000	0.03	0.00117737	0.03	-0.00000000	0.03	0.00000000
0.04	-0.00000000	0.04	0.00117755	0.04	-0.00000000	0.04	0.00000000
0.05	-0.00000000	0.05	0.00117773	0.05	-0.00000000	0.05	0.00000000
0.06	-0.00000000	0.06	0.00117791	0.06	-0.00000000	0.06	0.00000000
0.07	-0.00000000	0.07	0.00117809	0.07	-0.00000000	0.07	0.00000000
0.08	-0.00000000	0.08	0.00117827	0.08	-0.00000000	0.08	0.00000000
0.09	-0.00000000	0.09	0.00117845	0.09	-0.00000000	0.09	0.00000000
0.10	-0.00000000	0.10	0.00117863	0.10	-0.00000000	0.10	0.00000000
0.11	-0.00000000	0.11	0.00117881	0.11	-0.00000000	0.11	0.00000000
0.12	-0.00000000	0.12	0.00117899	0.12	-0.00000000	0.12	0.00000000
0.13	-0.00000000	0.13	0.00117917	0.13	-0.00000000	0.13	0.00000000
0.14	-0.00000000	0.14	0.00117935	0.14	-0.00000000	0.14	0.00000000
0.15	-0.00000000	0.15	0.00117953	0.15	-0.00000000	0.15	0.00000000
0.16	-0.00000000	0.16	0.00117971	0.16	-0.00000000	0.16	0.00000000
0.17	-0.00000000	0.17	0.00117989	0.17	-0.00000000	0.17	0.00000000
0.18	-0.00000000	0.18	0.00118007	0.18	-0.00000000	0.18	0.00000000
0.19	-0.00000000	0.19	0.00118025	0.19	-0.00000000	0.19	0.00000000
0.20	-0.00000000	0.20	0.00118043	0.20	-0.00000000	0.20	0.00000000
0.21	-0.00000000	0.21	0.00118061	0.21	-0.00000000	0.21	0.00000000
0.22	-0.00000000	0.22	0.00118079	0.22	-0.00000000	0.22	0.00000000
0.23	-0.00000000	0.23	0.00118097	0.23	-0.00000000	0.23	0.00000000
0.24	-0.00000000	0.24	0.00118115	0.24	-0.00000000	0.24	0.00000000
0.25	-0.00000000	0.25	0.00118133	0.25	-0.00000000	0.25	0.00000000

4.43. Scale Factor x Ground Motion Unscaled

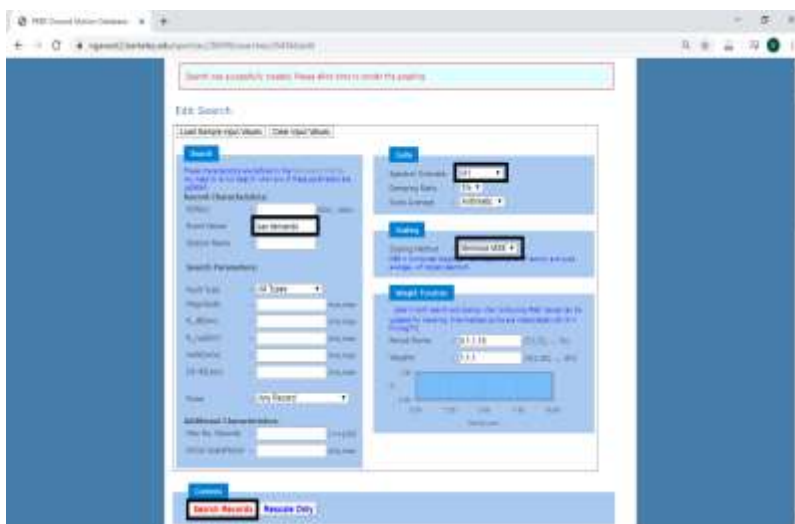
The screenshot shows an Excel spreadsheet with the following data structure:

UNSCALED MOTION				SCALE FACTOR		SCALED MOTION			
Time (s)	Accel (g)	Time (s)	Accel (g)	alpha	beta	Time (s)	Accel (g)	Time (s)	Accel (g)
0.00	-0.00000000	0.00	0.00117683	0.10	0.10000000	0.00	-0.00000000	0.00	0.00000000
0.01	-0.00000000	0.01	0.00117701	0.10	0.10000000	0.01	-0.00000000	0.01	0.00000000
0.02	-0.00000000	0.02	0.00117719	0.10	0.10000000	0.02	-0.00000000	0.02	0.00000000
0.03	-0.00000000	0.03	0.00117737	0.10	0.10000000	0.03	-0.00000000	0.03	0.00000000
0.04	-0.00000000	0.04	0.00117755	0.10	0.10000000	0.04	-0.00000000	0.04	0.00000000
0.05	-0.00000000	0.05	0.00117773	0.10	0.10000000	0.05	-0.00000000	0.05	0.00000000
0.06	-0.00000000	0.06	0.00117791	0.10	0.10000000	0.06	-0.00000000	0.06	0.00000000
0.07	-0.00000000	0.07	0.00117809	0.10	0.10000000	0.07	-0.00000000	0.07	0.00000000
0.08	-0.00000000	0.08	0.00117827	0.10	0.10000000	0.08	-0.00000000	0.08	0.00000000
0.09	-0.00000000	0.09	0.00117845	0.10	0.10000000	0.09	-0.00000000	0.09	0.00000000
0.10	-0.00000000	0.10	0.00117863	0.10	0.10000000	0.10	-0.00000000	0.10	0.00000000
0.11	-0.00000000	0.11	0.00117881	0.10	0.10000000	0.11	-0.00000000	0.11	0.00000000
0.12	-0.00000000	0.12	0.00117899	0.10	0.10000000	0.12	-0.00000000	0.12	0.00000000
0.13	-0.00000000	0.13	0.00117917	0.10	0.10000000	0.13	-0.00000000	0.13	0.00000000
0.14	-0.00000000	0.14	0.00117935	0.10	0.10000000	0.14	-0.00000000	0.14	0.00000000
0.15	-0.00000000	0.15	0.00117953	0.10	0.10000000	0.15	-0.00000000	0.15	0.00000000
0.16	-0.00000000	0.16	0.00117971	0.10	0.10000000	0.16	-0.00000000	0.16	0.00000000
0.17	-0.00000000	0.17	0.00117989	0.10	0.10000000	0.17	-0.00000000	0.17	0.00000000
0.18	-0.00000000	0.18	0.00118007	0.10	0.10000000	0.18	-0.00000000	0.18	0.00000000
0.19	-0.00000000	0.19	0.00118025	0.10	0.10000000	0.19	-0.00000000	0.19	0.00000000
0.20	-0.00000000	0.20	0.00118043	0.10	0.10000000	0.20	-0.00000000	0.20	0.00000000
0.21	-0.00000000	0.21	0.00118061	0.10	0.10000000	0.21	-0.00000000	0.21	0.00000000
0.22	-0.00000000	0.22	0.00118079	0.10	0.10000000	0.22	-0.00000000	0.22	0.00000000
0.23	-0.00000000	0.23	0.00118097	0.10	0.10000000	0.23	-0.00000000	0.23	0.00000000
0.24	-0.00000000	0.24	0.00118115	0.10	0.10000000	0.24	-0.00000000	0.24	0.00000000
0.25	-0.00000000	0.25	0.00118133	0.10	0.10000000	0.25	-0.00000000	0.25	0.00000000

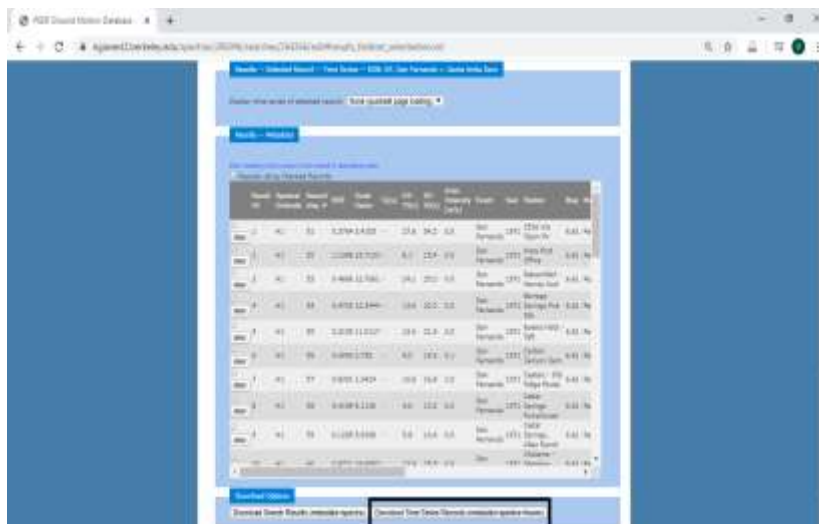
4.44. Target Spectrum



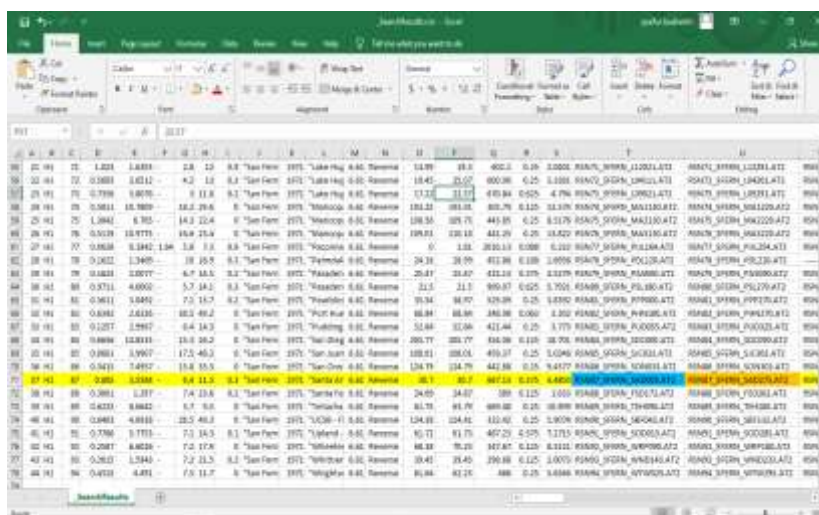
4.45. Edit Search Target Ground Motion



4.46. Download Target Ground Motion



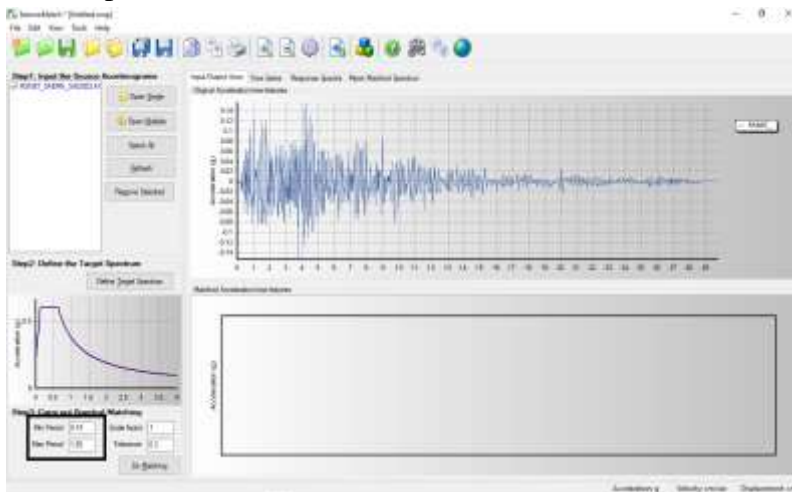
4.47. File Target Ground Motion



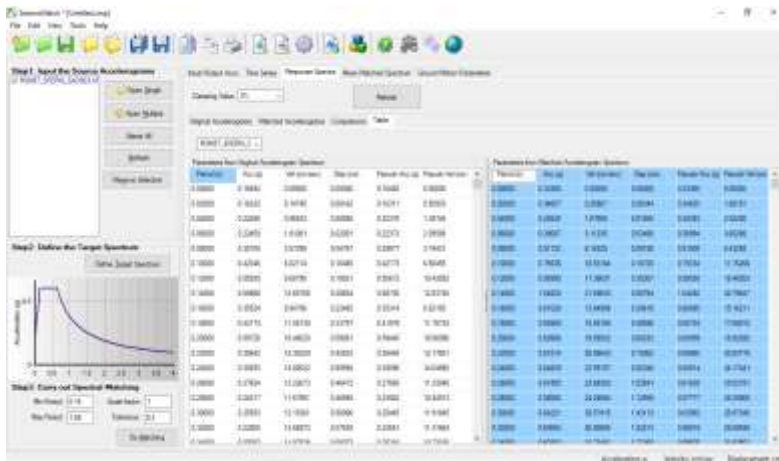
4.50. Input Nilai Sesuai *Response Spectrume*

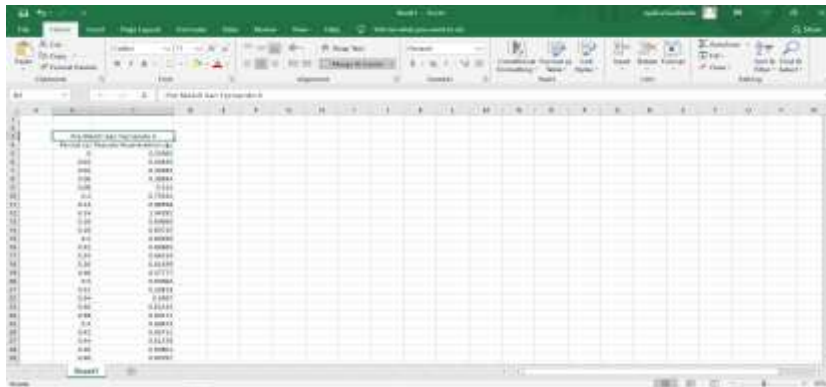


4.51. Input Nilai *Scale Factor*

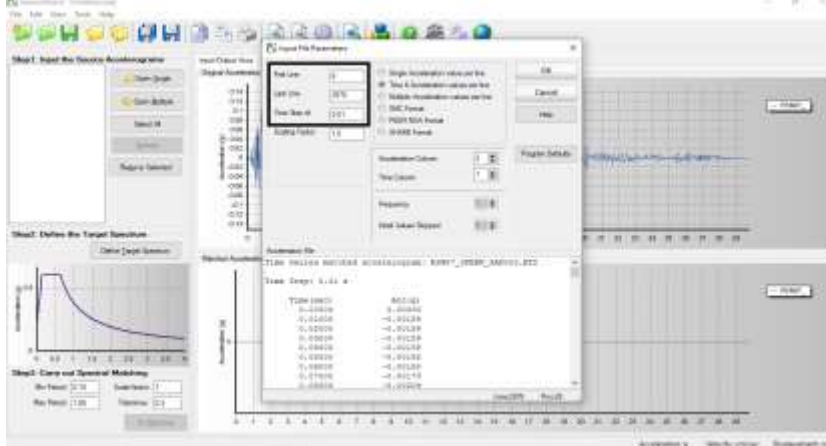


4.52. Copy Parameters Matched Accelerogram Spectrume ke Ms Excel

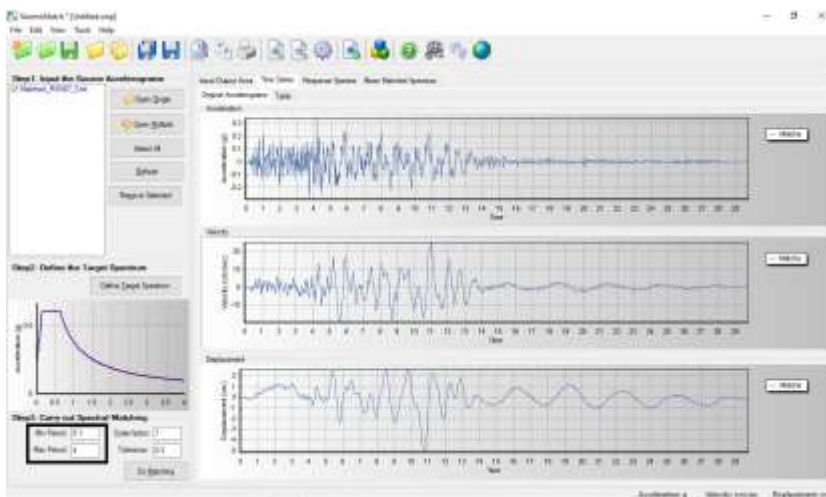




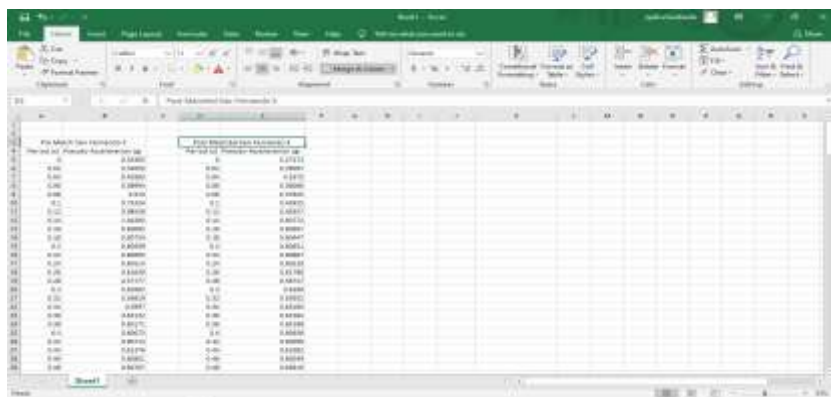
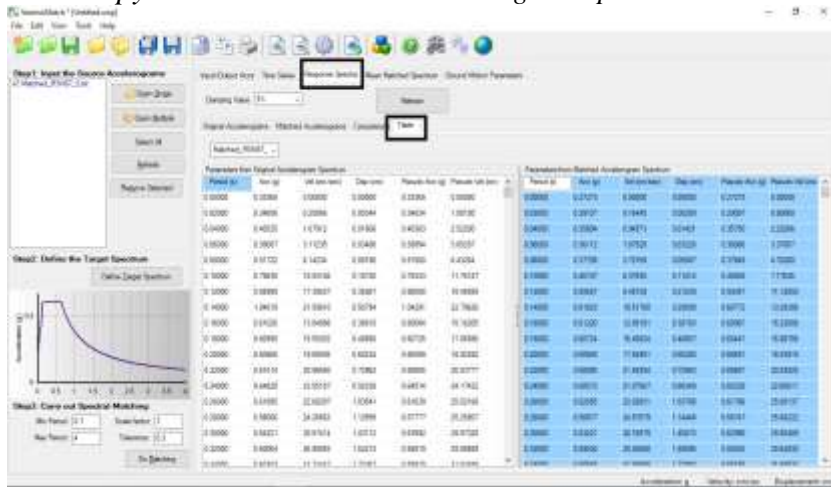
4.53. Input Nilai Sesuai *Save Spectra Matching Target Ground Motion*



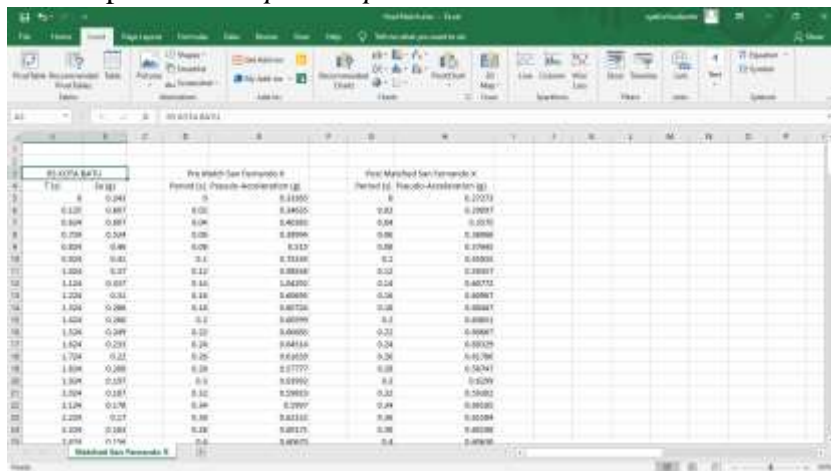
4.54. Input Nilai *Scale Factor*



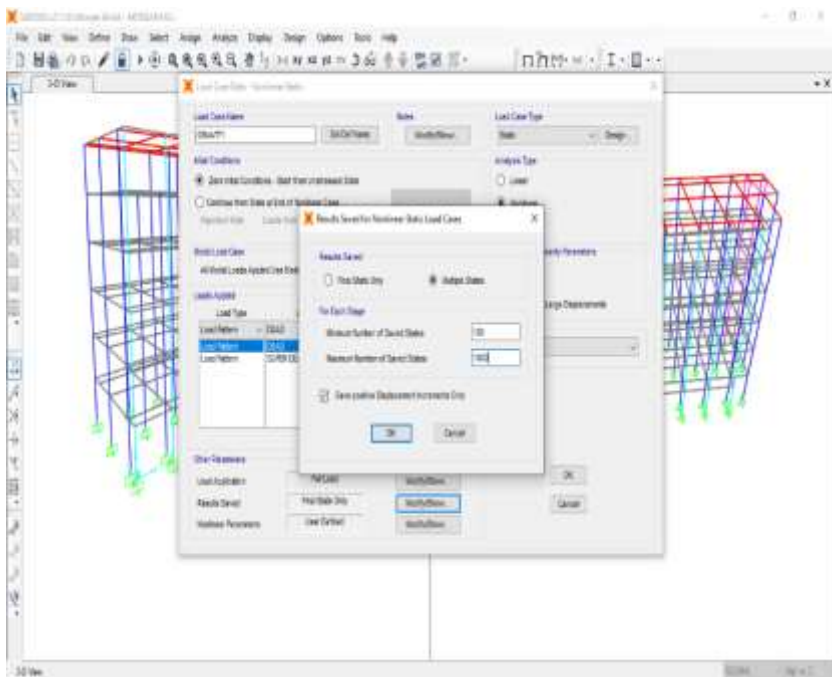
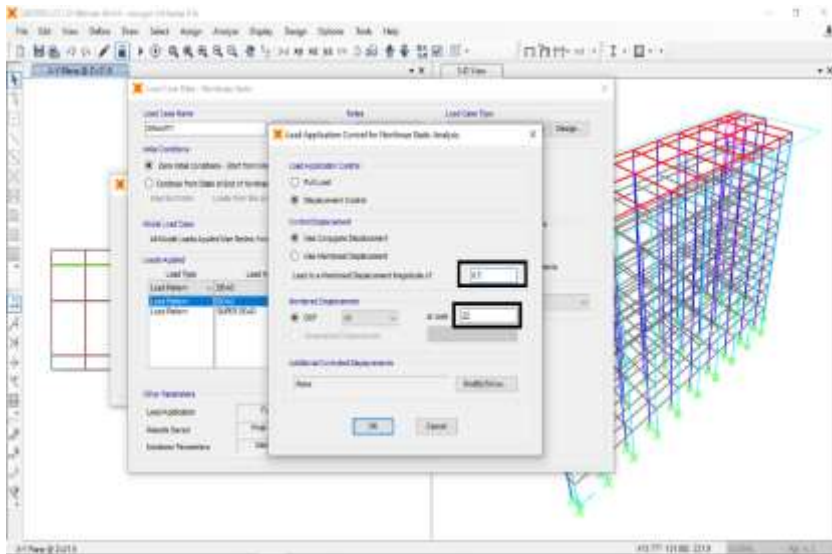
4.55. Copy Parameters Matched Accelerogram Spectrume ke Ms.Excel

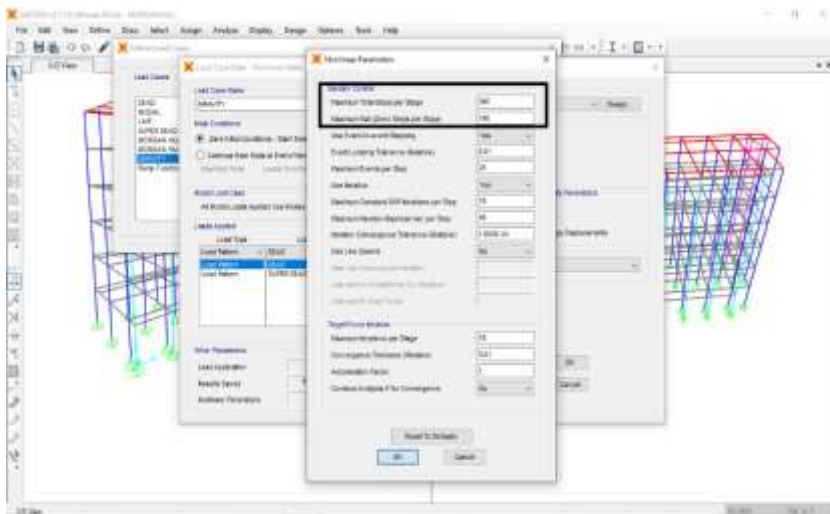


4.56. Input nilai Response Spectrume

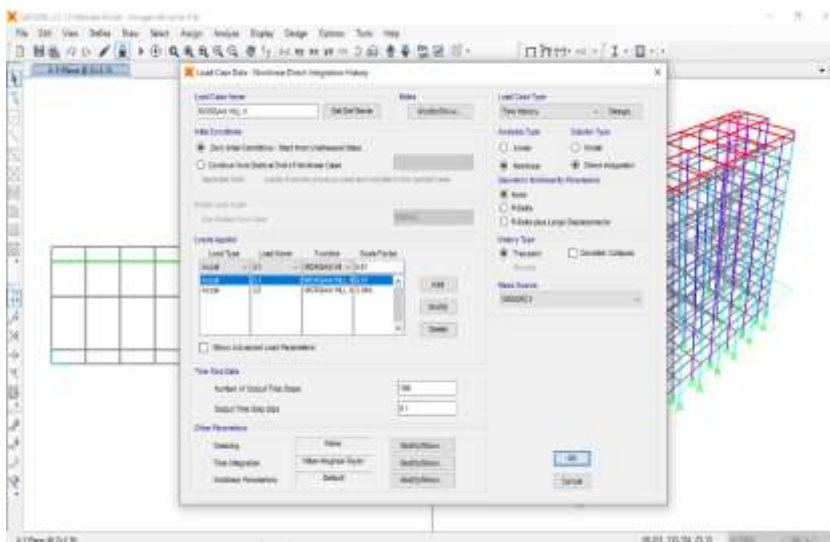


4.57. Input nilai *Load Application Control, Result Save, Nonlinier Parameters*





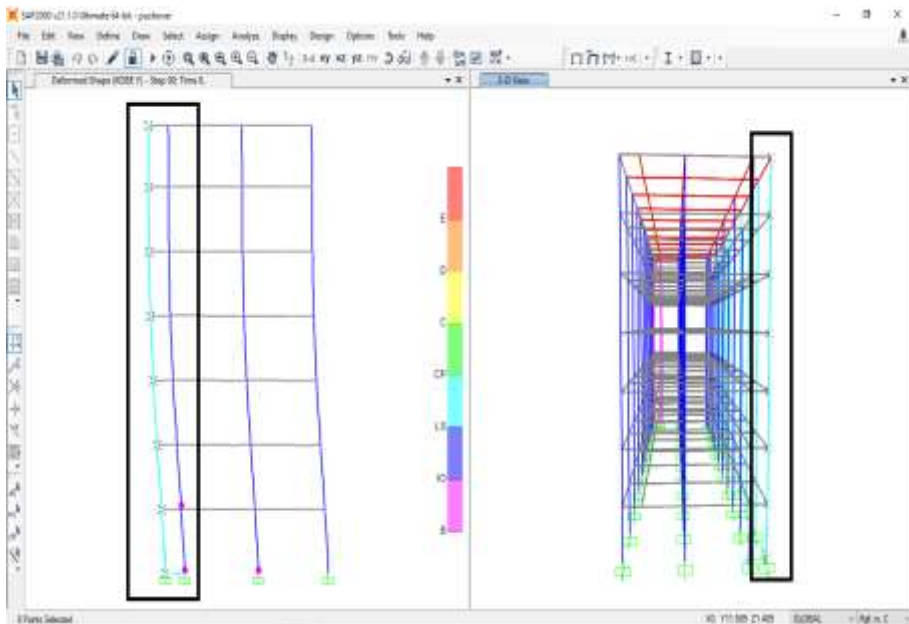
4.58. Input nilai *Load Case Data Nonlinier Time History Anaysis*



Excel spreadsheet showing a table of joint displacements. The table has columns for Joint, OutputCase, CaseType, StepType, U1, U2, U3, R1, R2, and R3. The data is as follows:

Joint	OutputCase	CaseType	StepType	U1	U2	U3	R1	R2	R3
Text	Text	Text	Text	in	in	in	Radians	Radians	Radians
22	KOBE X	NonDirHist	Max	0.07476	0.03038	0.00221	0.00055	0.00105	9.4E-05
52	KOBE X	NonDirHist	Min	-0.13739	-0.01511	-0.00256	-0.00115	-0.00165	-0.00038
60	KOBE X	NonDirHist	Max	0.01045	0.00517	0.00069	0.00038	0.00059	1.3E-05
50	KOBE X	NonDirHist	Min	-0.02059	-0.00613	-0.00105	-0.00066	-0.00025	-5.9E-05
17	KOBE X	NonDirHist	Max	0.02723	0.01135	0.00126	0.00059	0.00044	2.1E-05
17	KOBE X	NonDirHist	Min	-0.04761	-0.01208	-0.00177	-0.00101	-0.00023	-0.00012
174	KOBE X	NonDirHist	Max	0.04088	0.01630	0.0017	0.00059	0.00029	3.7E-05
174	KOBE X	NonDirHist	Min	-0.07372	-0.01549	-0.0022	-0.00107	-0.00083	-0.00018
231	KOBE X	NonDirHist	Max	0.05171	0.01953	0.002	0.00068	0.00112	4.9E-05
231	KOBE X	NonDirHist	Min	-0.09996	-0.0162	-0.00242	-0.00132	-0.00502	-0.00019
588	KOBE X	NonDirHist	Max	0.06083	0.02328	0.00217	0.00069	0.00052	5.9E-05
588	KOBE X	NonDirHist	Min	-0.11593	-0.01478	-0.00252	-0.00141	-0.00089	-0.0002
545	KOBE X	NonDirHist	Max	0.08951	0.02771	0.00222	0.00061	0.00161	8.5E-05
545	KOBE X	NonDirHist	Min	-0.12828	-0.01437	-0.00255	-0.00128	-0.00049	-0.00012
402	KOBE X	NonDirHist	Max	0	0	0	0	0	0
402	KOBE X	NonDirHist	Min	0	0	0	0	0	0

4.60 Drift Story Y



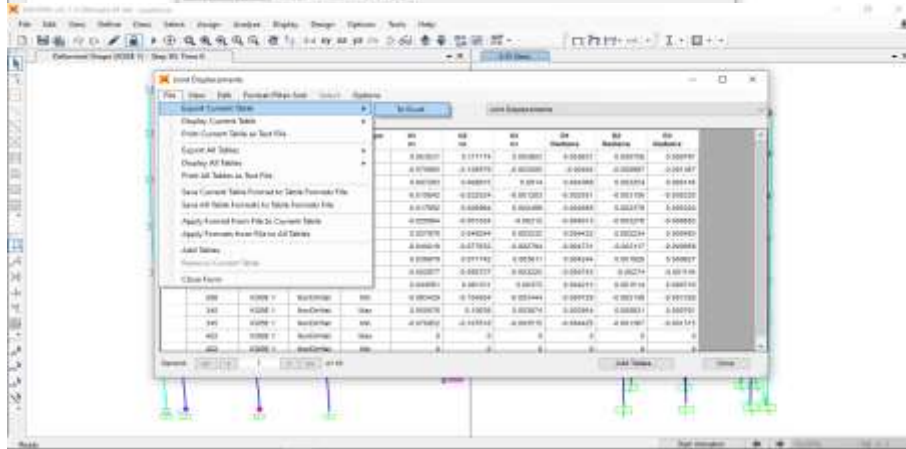
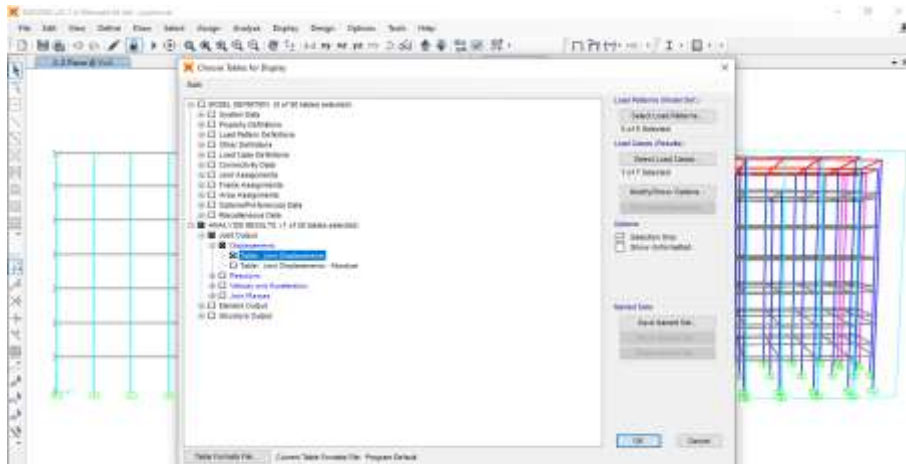


TABLE: Joint Displacements

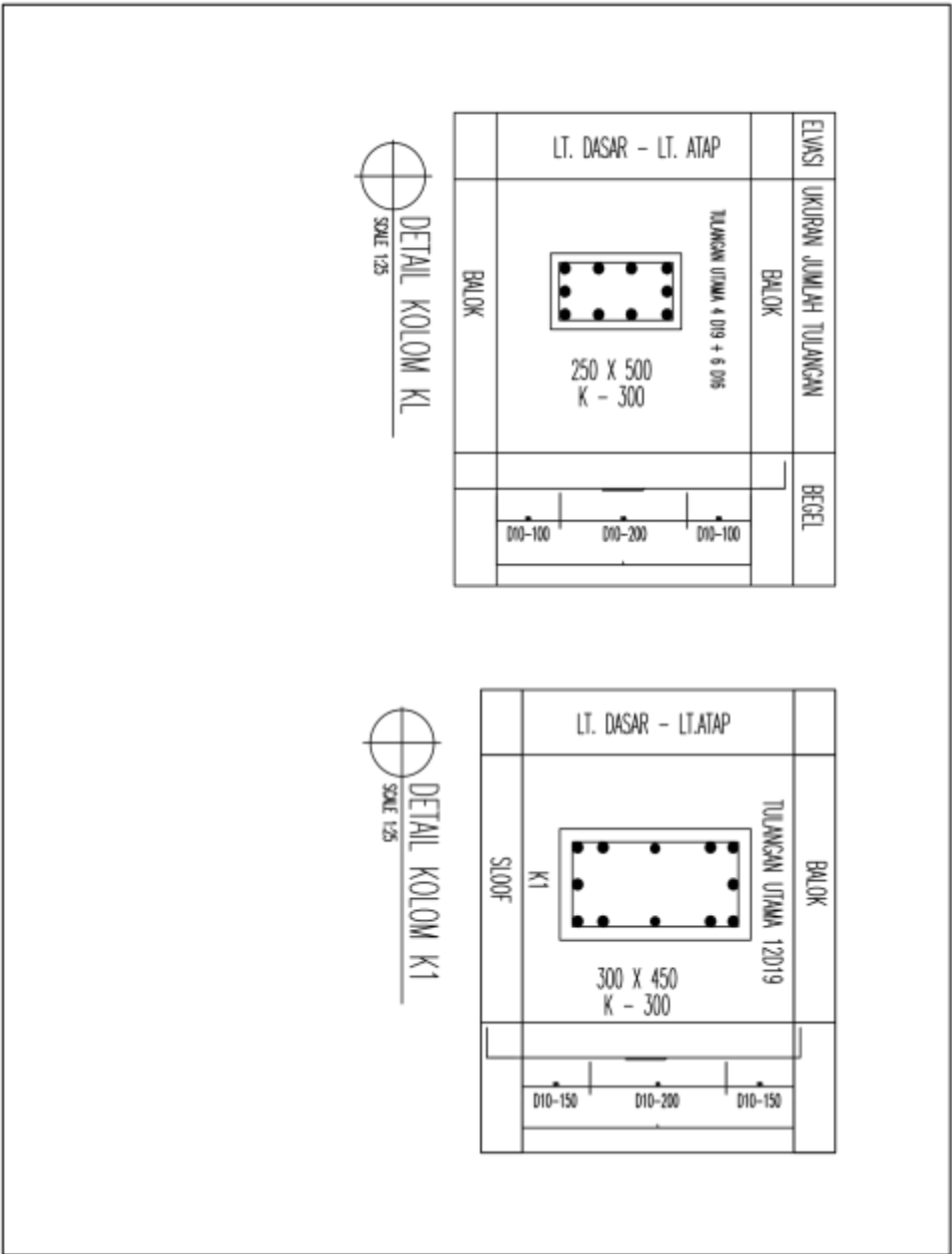
Joint	OutputCase	CaseType	StepType	U1	U2	U3	UR	UR	UR
Text	Text	Text	Text	in	in	in	in	in	in
2	K0BE Y	MaxDirHist	Max	0.03333	0.11717	0.00396	0.00380	0.00076	0.00079
3	K0BE Y	MaxDirHist	Min	-0.07587	-0.10938	-0.00051	-0.00404	-0.001	-0.00137
4	K0BE Y	MaxDirHist	Max	0.00728	0.00982	0.0014	0.00437	0.00225	0.00015
5	K0BE Y	MaxDirHist	Min	-0.00084	0.02252	-0.00128	-0.00255	-0.00316	-0.00033
6	K0BE Y	MaxDirHist	Max	0.01749	0.00999	0.00025	0.00496	0.00198	0.00032
7	K0BE Y	MaxDirHist	Min	0.02598	-0.0513	-0.00212	-0.00401	-0.00328	-0.00048
8	K0BE Y	MaxDirHist	Max	0.02788	0.04924	0.00323	0.00442	0.00212	0.00048
9	K0BE Y	MaxDirHist	Min	-0.04002	-0.07763	-0.00079	-0.00473	-0.00212	-0.00066
10	K0BE Y	MaxDirHist	Max	0.03998	0.07174	0.00361	0.00424	0.00182	0.00043
11	K0BE Y	MaxDirHist	Min	-0.01288	-0.09274	-0.00123	-0.00674	-0.00274	-0.00114
12	K0BE Y	MaxDirHist	Max	0.04096	0.09121	0.00377	0.00621	0.00251	0.00072
13	K0BE Y	MaxDirHist	Min	-0.06545	-0.1049	-0.00344	-0.00473	-0.00215	-0.00128
14	K0BE Y	MaxDirHist	Max	0.05908	0.10038	0.00367	0.00392	0.00093	0.00076
15	K0BE Y	MaxDirHist	Min	-0.07945	-0.10762	-0.00252	-0.00442	-0.00137	-0.00132
16	K0BE Y	MaxDirHist	Max	0	0	0	0	0	0
17	K0BE Y	MaxDirHist	Min	0	0	0	0	0	0

LAMPIRAN DATA SEKUNDER

KODE BALOK	BIX			BIY			BAX		
	TUMPUAN	LAPANGAN	TUMPUAN	TUMPUAN	LAPANGAN	TUMPUAN	TUMPUAN	LAPANGAN	TUMPUAN
DIMENSI	200X400	200X400	200X400	200X400	200X400	200X400	200X400	200X400	200X400
TULANGAN ATAS	3 D 16	2 D 16	3 D 16	4 D 16	2 D 16	4 D 16	3 D 16	2 D 16	3 D 16
TULANGAN BAWAH	2 D 10	2 D 10	2 D 10	2 D 10	2 D 10	2 D 10	2 D 10	2 D 10	2 D 10
TULANGAN BAWAH	2 D 16	3 D 16	2 D 16	2 D 16	4 D 16	2 D 16	2 D 16	3 D 16	2 D 16
SEKANG	D10-100	D10-150	D10-100	D10-100	D10-150	D10-100	Ø8-100	Ø8-150	Ø8-100

DETAIL BALOK

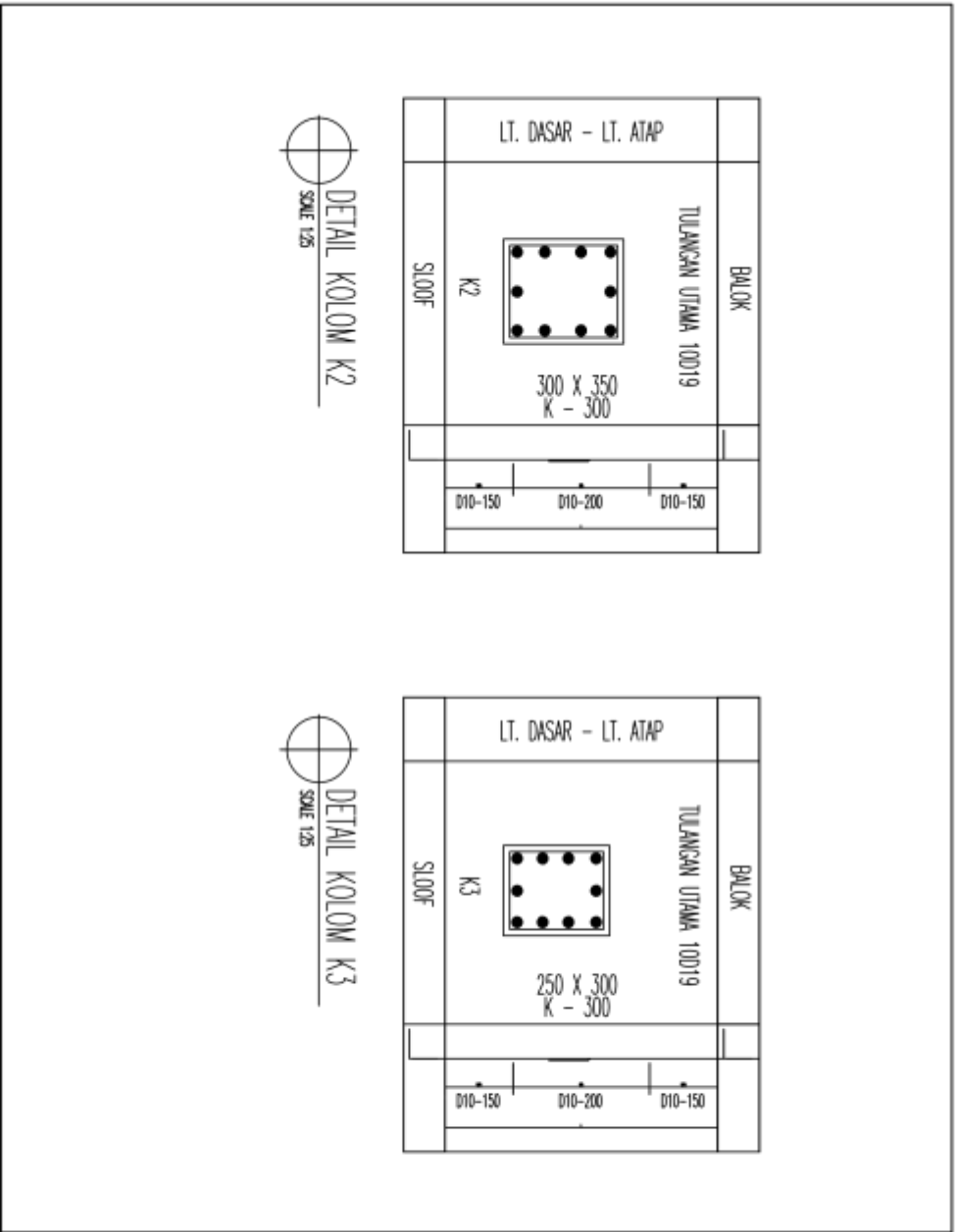
<p>Logo of PT. BATU BANGUN</p>	<p>THE BATU HUBUNJ & VIBRA</p>	<p>PT. BATU BANGUN Kantor Pusat Jl. Raya Kuningan No. 100 Kuningan, Cirebon 45132 Telp. (0322) 311111 Fax. (0322) 311112 Email: info@batubangun.com</p>
<p>Logo of PT. BATU BANGUN</p>	<p>PT. BATU BANGUN</p>	<p>PT. BATU BANGUN</p>



DETAIL KOLON K1
SCALE 1:25

DETAIL KOLON K1
SCALE 1:25

<p>Disusun oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>		<p>Disetujui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>	
<p>Diketahui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>		<p>Diketahui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>	
<p>Disetujui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>		<p>Disetujui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>	
<p>Diketahui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>		<p>Diketahui oleh: NAMA: THE BATU NIM: 202101100000000000 2021</p>	



			<p style="text-align: center;">THE BATU HEKER & VIRBA</p>
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">Dit. LUK. INKORPORASI S.A.</p> <p style="text-align: center;">JALAN SURABAYA NO. 252 GABUNGAN KAWASAN PERUMAHAN KALIPATEAN SURABAYA</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Dibuat dan Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	
<p style="text-align: center;">Disetujui oleh:</p>		<p style="text-align: center;">DIT. LUK. INKORPORASI S.A.</p>	