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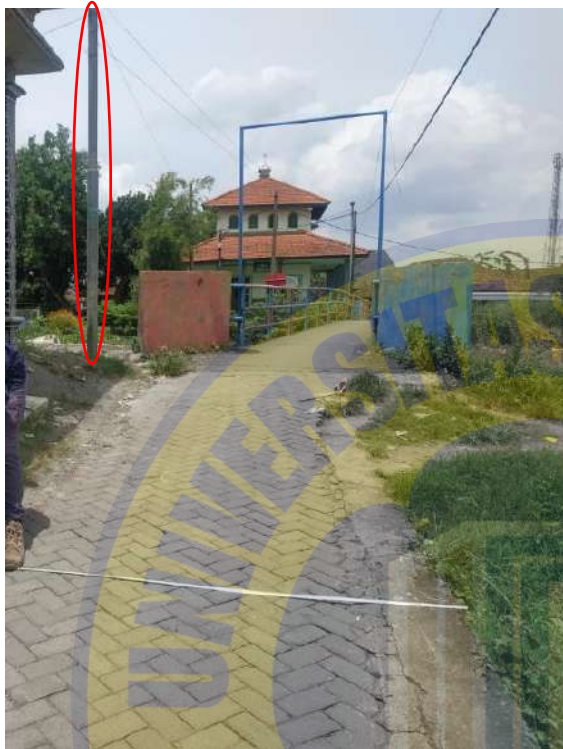
LAMPIRAN



Lampiran 1 uji sondir



Lampiran 2 penentuan titik gangguan
dengan total station



Lampiran 1 utilitas Tiang PJU
sisi selatan



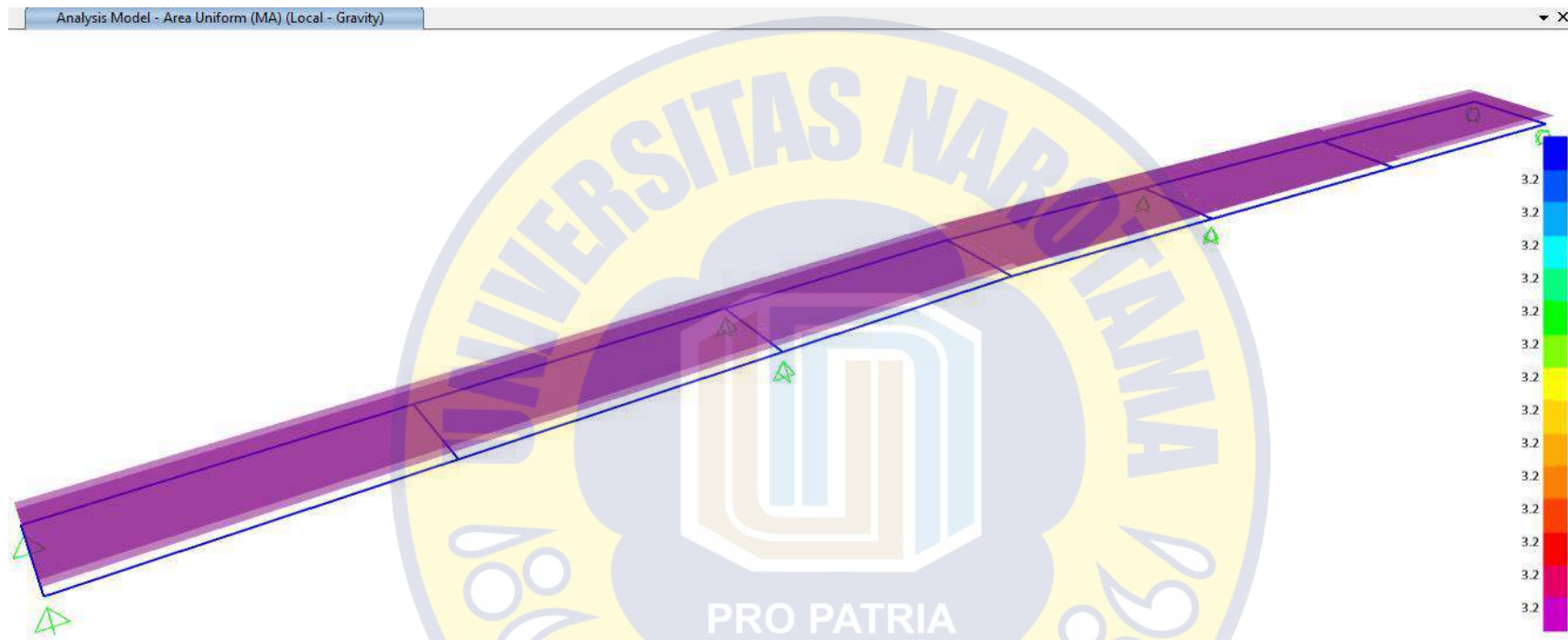
Lampiran 2 utilitas support
tiang listrik sisi utara



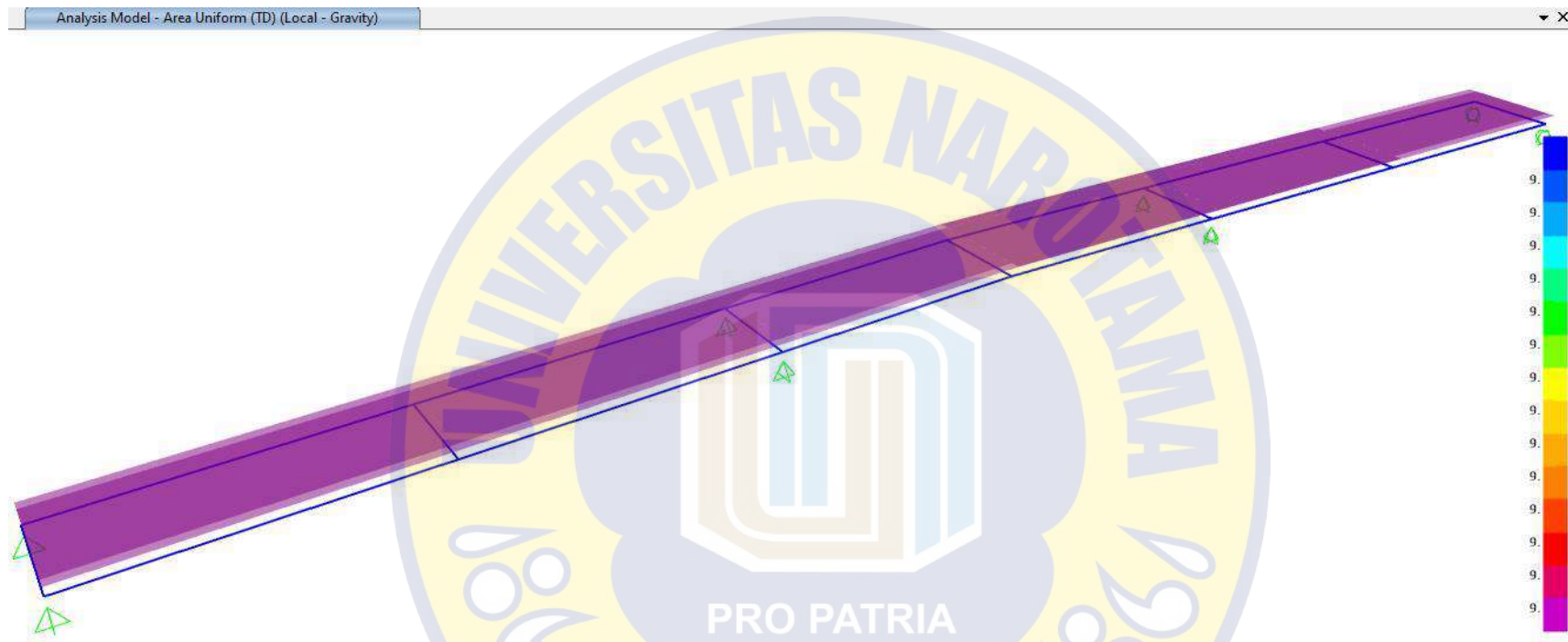
Lampiran 3 Utilitas tiang Telkom sisi utara



Lampiran 4 Tampilan 3D jembatan eksisting pada SAP2000



Lampiran 5 Aplikasi beban mati tambahan pada jembatan eksisting



Lampiran 7 Aplikasi beban UDL "D" pada jembatan eksisting



Lampiran 8 Aplikasi beban KEL "D" pada jembatan eksisting



Lampiran 9 Aplikasi beban angin pada struktur jembatan eksisting



Lampiran 10 Lendutan akibat beban envelope pada struktur jembatan eksisting



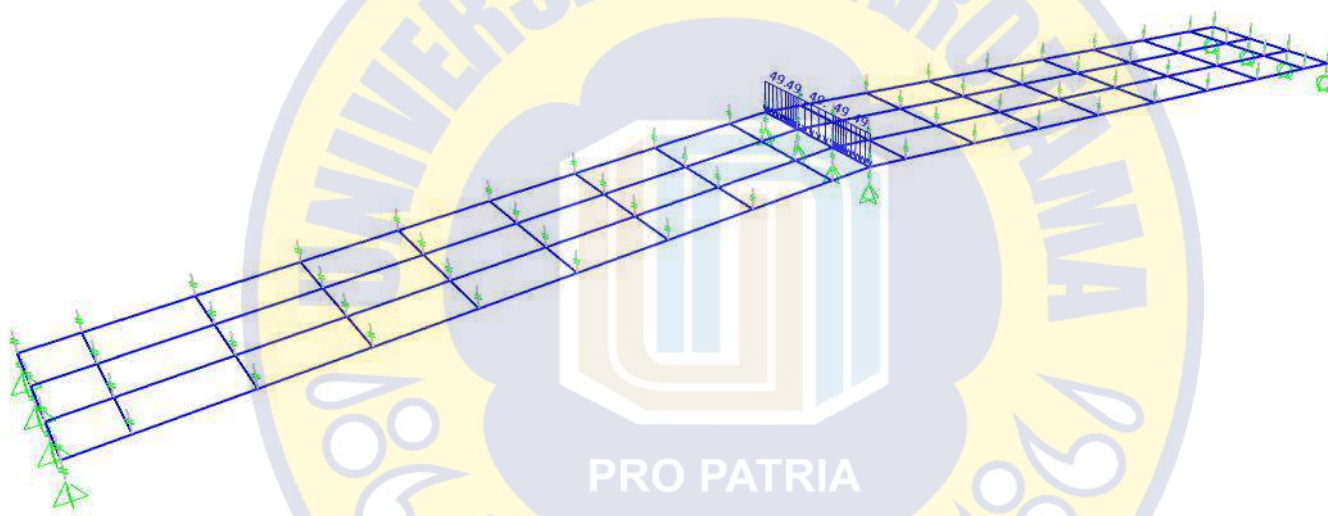
Lampiran 11 Tampilan 3D jembatan rencana pada SAP2000



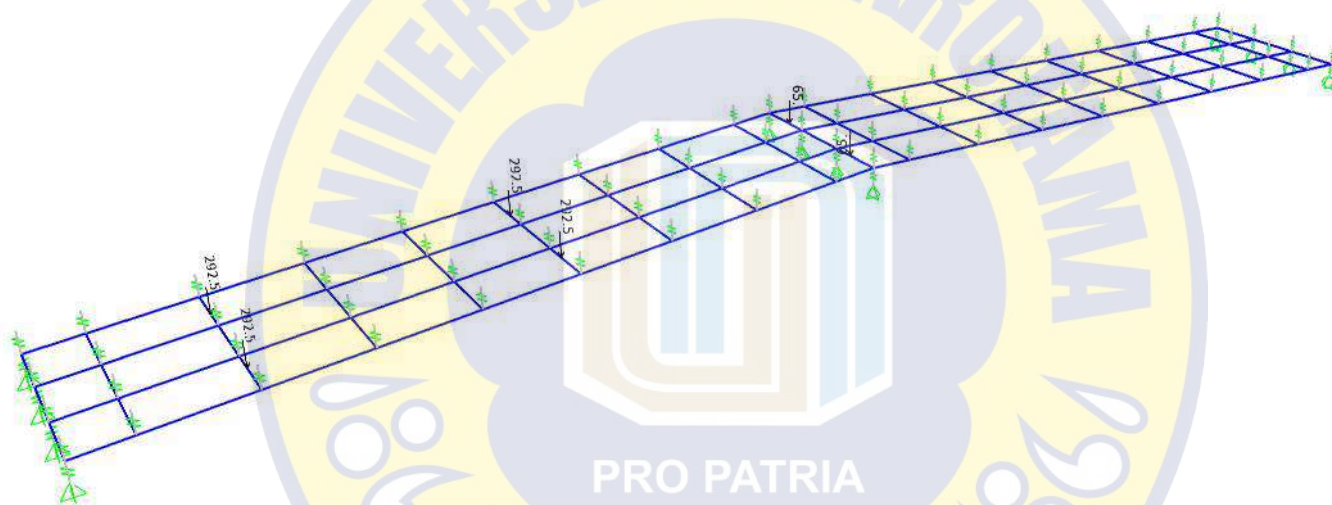
Lampiran 12 Aplikasi beban mati tambahan pada jembatan rencana



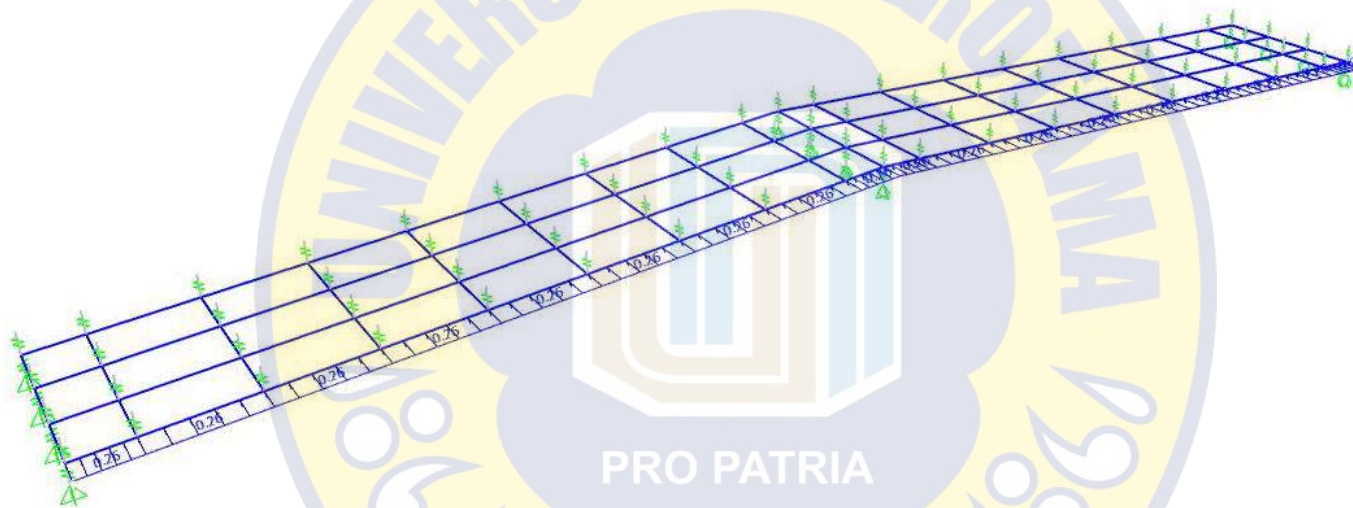
Lampiran 13 Aplikasi beban mati pelat kendaraan pada jembatan rencana



Lampiran 15 Aplikasi beban KEL "D" pada jembatan rencana



Lampiran 16 Aplikasi beban "T" pada jembatan rencana



Lampiran 17 Aplikasi beban angin pada struktur jembatan eksisting



Lampiran 18 Lendutan akibat beban envelope pada jembatan rencana

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
20	1.48	Envelope	Combination	Max	-9.629	0.253	0.00154	-2.5E-05	-0.0017	-0.7951	20-1	1.48
20	0	Envelope	Combination	Min	-21.512	-0.294	0.00154	-2.5E-05	-0.0028	-1.6941	20-1	0
20	0.49333	Envelope	Combination	Min	-21.512	-0.112	0.00154	-2.5E-05	-0.0035	-1.594	20-1	0.49333
20	0.98667	Envelope	Combination	Min	-21.512	0.071	0.00154	-2.5E-05	-0.0043	-1.5839	20-1	0.98667
20	1.48	Envelope	Combination	Min	-21.512	0.253	0.00154	-2.5E-05	-0.0051	-1.6636	20-1	1.48
21	0	Envelope	Combination	Max	2.97	-0.278	-0.00054	7.48E-06	0.000127	-0.1861	21-1	0
21	0.49333	Envelope	Combination	Max	2.97	-0.096	-0.00054	7.48E-06	0.000395	-0.0938	21-1	0.49333
21	0.98667	Envelope	Combination	Max	2.97	0.086	-0.00054	7.48E-06	0.000663	-0.0914	21-1	0.98667
21	1.48	Envelope	Combination	Max	2.97	0.269	-0.00054	7.48E-06	0.000931	-0.1789	21-1	1.48
21	0	Envelope	Combination	Min	1.4	-0.278	-0.00054	7.48E-06	-0.0016	-0.3445	21-1	0
21	0.49333	Envelope	Combination	Min	1.4	-0.096	-0.00054	7.48E-06	-0.0013	-0.2522	21-1	0.49333
21	0.98667	Envelope	Combination	Min	1.4	0.086	-0.00054	7.48E-06	-0.0011	-0.2498	21-1	0.98667
21	1.48	Envelope	Combination	Min	1.4	0.269	-0.00054	7.48E-06	-0.00081	-0.3373	21-1	1.48

Lampiran 20 Tabel gaya dalam ultimit dari gelagar melintang jembatan eksisting

Gaya Dalam Maksimum											
P		V2		V3		T		M2		M3	
Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif
KN	KN	KN	KN	KN	KN	KN-m	KN-m	KN-m	KN-m	KN-m	KN-m
12.15	-21.512	36.558	-36.509	0.003081	-0.00119	1.85E-05	-5.2E-05	0.0046	-0.0051	3.3066	-8.7329

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
8	1.94541	Envelope	Combination	Max	39.565	24.554	0.001658	-0.00017	0.000978	2.9227	8-1	1.94541
8	3.89083	Envelope	Combination	Max	39.58	25.272	0.001658	-0.00017	-0.00069	-21.0823	8-1	3.89083
8	0	Envelope	Combination	Min	17.846	10.507	0.000446	-0.00038	0.0011	22.5936	8-1	0
8	1.94541	Envelope	Combination	Min	17.861	11.225	0.000446	-0.00038	0.000183	1.4546	8-1	1.94541
8	3.89083	Envelope	Combination	Min	17.876	11.944	0.000446	-0.00038	-0.0022	-45.5438	8-1	3.89083
9	0	Envelope	Combination	Max	-19.881	-9.567	0.001276	8.72E-05	0.002	-17.6877	9-1	0
9	1.80783	Envelope	Combination	Max	-19.869	-8.899	0.001276	8.72E-05	0.000378	-0.9964	9-1	1.80783
9	3.61567	Envelope	Combination	Max	-19.856	-8.231	0.001276	8.72E-05	0.0014	51.407	9-1	3.61567
9	0	Envelope	Combination	Min	-67.053	-30.709	-0.00055	-7.3E-05	-0.00062	-57.2118	9-1	0
9	1.80783	Envelope	Combination	Min	-67.04	-30.041	-0.00055	-7.3E-05	-0.00026	-2.2988	9-1	1.80783
9	3.61567	Envelope	Combination	Min	-67.027	-29.373	-0.00055	-7.3E-05	-0.0026	14.4876	9-1	3.61567
10	0	Envelope	Combination	Max	1.6	25.833	0.000924	0.000109	0.0016	45.6939	10-1	0
10	1.72285	Envelope	Combination	Max	1.587	26.469	0.000924	0.000109	3.42E-05	0.6392	10-1	1.72285
10	3.4457	Envelope	Combination	Max	1.574	27.106	0.000924	0.000109	0.0012	-11.9865	10-1	3.4457
10	0	Envelope	Combination	Min	-22.985	6.246	-0.00101	-7.7E-05	-0.0023	11.7267	10-1	0
10	1.72285	Envelope	Combination	Min	-22.998	6.882	-0.00101	-7.7E-05	-0.00053	0.4183	10-1	1.72285
10	3.4457	Envelope	Combination	Min	-23.011	7.518	-0.00101	-7.7E-05	-0.0016	-45.5119	10-1	3.4457
11	0	Envelope	Combination	Max	-20.204	-11.032	-0.00033	0.000293	-0.00069	-21.2614	11-1	0
11	1.9879	Envelope	Combination	Max	-20.218	-10.298	-0.00033	0.000293	0.000722	-0.0607	11-1	1.9879
11	3.97581	Envelope	Combination	Max	-20.233	-9.563	-0.00033	0.000293	0.0033	43.8604	11-1	3.97581
11	0	Envelope	Combination	Min	-44.977	-23.423	-0.00129	0.000133	-0.0018	-46.3459	11-1	0
11	1.9879	Envelope	Combination	Min	-44.992	-22.689	-0.00129	0.000133	-3E-05	-0.5129	11-1	1.9879

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
11	3.97581	Envelope	Combination	Min	-45.006	-21.954	-0.00129	0.000133	0.00063	19.6802	11-1	3.97581
12	0	Envelope	Combination	Max	13.247	16.234	0.001424	-0.00011	0.0021	36.445	12-1	0
12	1.9879	Envelope	Combination	Max	13.233	16.968	0.001424	-0.00011	3.91E-05	3.4433	12-1	1.9879
12	3.97581	Envelope	Combination	Max	13.218	17.703	0.001424	-0.00011	-0.00087	-14.4662	12-1	3.97581
12	0	Envelope	Combination	Min	5.449	7.023	0.000458	-0.00026	0.00095	16.3763	12-1	0
12	1.9879	Envelope	Combination	Min	5.434	7.758	0.000458	-0.00026	-0.00072	1.685	12-1	1.9879
12	3.97581	Envelope	Combination	Min	5.419	8.492	0.000458	-0.00026	-0.0035	-31.0182	12-1	3.97581

Lampiran 22 Tabel gaya dalam ultimit dari gelagar memanjang jembatan eksisting

Gaya Dalam Maksimum											
P		V2		V3		T		M2		M3	
Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif
KN	KN	KN	KN	KN	KN	KN-m	KN-m	KN-m	KN-m	KN-m	KN-m
142.36	-67.053	30.734	-30.709	0.129	-0.129	0.000434	-0.00038	0.043	-0.0881	51.4314	-57.2774

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
160	0.625	Envelope	Combination	Max	84.354	183.29	0.002237	6.25E-05	0.0196	37.2233	160-2	0
160	1	Envelope	Combination	Max	84.354	183.421	0.002237	6.25E-05	0.0188	-0.4064	160-2	0.375
160	0	Envelope	Combination	Min	-4.606	-109.428	-0.025	-0.00014	-0.0117	-31.1009	160-1	0
160	0.3125	Envelope	Combination	Min	-4.606	-109.319	-0.025	-0.00014	-0.004	-0.7121	160-1	0.3125
160	0.625	Envelope	Combination	Min	-4.606	-109.21	-0.025	-0.00014	0.0037	-0.5527	160-1	0.625
160	0.625	Envelope	Combination	Min	-4.606	-0.456	-0.025	-0.00014	0.0037	-0.5527	160-2	0
160	1	Envelope	Combination	Min	-4.606	-0.325	-0.025	-0.00014	0.0129	-31.5351	160-2	0.375
161	0	Envelope	Combination	Max	16.256	-0.152	0.001659	-3.5E-06	0.0134	-0.5858	161-1	0
161	0.5	Envelope	Combination	Max	16.256	0.023	0.001659	-3.5E-06	0.0126	-0.5537	161-1	0.5
161	1	Envelope	Combination	Max	16.256	0.197	0.001659	-3.5E-06	0.0118	-0.6088	161-1	1
161	0	Envelope	Combination	Min	-3.48	-0.152	0.001659	-3.5E-06	0.0022	-0.7271	161-1	0
161	0.5	Envelope	Combination	Min	-3.48	0.023	0.001659	-3.5E-06	0.0013	-0.695	161-1	0.5
161	1	Envelope	Combination	Min	-3.48	0.197	0.001659	-3.5E-06	0.000518	-0.7501	161-1	1
162	0	Envelope	Combination	Max	84.14	0.363	0.028	0.000133	0.0205	-0.3967	162-1	0
162	0.375	Envelope	Combination	Max	84.14	0.494	0.028	0.000133	0.0201	37.2185	162-1	0.375
162	0.375	Envelope	Combination	Max	84.14	109.248	0.028	0.000133	0.0201	37.2185	162-2	0
162	0.6875	Envelope	Combination	Max	84.14	109.357	0.028	0.000133	0.0198	3.0614	162-2	0.3125
162	1	Envelope	Combination	Max	84.14	109.466	0.028	0.000133	0.0195	-0.9344	162-2	0.625
162	0	Envelope	Combination	Min	-4.82	-183.383	0.001036	-7E-05	0.0146	-31.5254	162-1	0
162	0.375	Envelope	Combination	Min	-4.82	-183.252	0.001036	-7E-05	0.0042	-0.5574	162-1	0.375
162	0.375	Envelope	Combination	Min	-4.82	0.494	0.001036	-7E-05	0.0042	-0.5574	162-2	0
162	0.6875	Envelope	Combination	Min	-4.82	0.603	0.001036	-7E-05	-0.0046	-0.7289	162-2	0.3125

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
162	1	Envelope	Combination	Min	-4.82	0.712	0.001036	-7E-05	-0.0133	-31.1298	162-2	0.625
165	0	Envelope	Combination	Max	17.51	-0.419	-0.023	0.000257	-0.0139	-0.9359	165-1	0
165	0.5	Envelope	Combination	Max	17.51	-0.244	-0.023	0.000257	0.0026	-0.696	165-1	0.5
165	1	Envelope	Combination	Max	17.51	-0.07	-0.023	0.000257	0.0828	2.3737	165-1	1
165	0	Envelope	Combination	Min	-5.252	-6.401	-0.16	4.54E-05	-0.0775	-3.8529	165-1	0
165	0.5	Envelope	Combination	Min	-5.252	-6.227	-0.16	4.54E-05	-0.0025	-0.7701	165-1	0.5
165	1	Envelope	Combination	Min	-5.252	-6.052	-0.16	4.54E-05	0.0089	-0.6915	165-1	1
166	0	Envelope	Combination	Max	33.868	-0.151	-0.00105	9.65E-07	-0.0026	0.2362	166-1	0
166	0.5	Envelope	Combination	Max	33.868	0.023	-0.00105	9.65E-07	-0.002	0.2681	166-1	0.5
166	1	Envelope	Combination	Max	33.868	0.198	-0.00105	9.65E-07	-0.0015	0.2128	166-1	1
166	0	Envelope	Combination	Min	-4.625	-0.151	-0.00105	9.65E-07	-0.0049	-0.7774	166-1	0
166	0.5	Envelope	Combination	Min	-4.625	0.023	-0.00105	9.65E-07	-0.0044	-0.7455	166-1	0.5
166	1	Envelope	Combination	Min	-4.625	0.198	-0.00105	9.65E-07	-0.0039	-0.8008	166-1	1
167	0	Envelope	Combination	Max	17.293	6.088	0.159	-4.4E-05	0.082	2.3819	167-1	0
167	0.5	Envelope	Combination	Max	17.293	6.263	0.159	-4.4E-05	0.0026	-0.7058	167-1	0.5
167	1	Envelope	Combination	Max	17.293	6.437	0.159	-4.4E-05	-0.0132	-0.9637	167-1	1
167	0	Envelope	Combination	Min	-5.47	0.106	0.021	-0.00026	0.0081	-0.6832	167-1	0
167	0.5	Envelope	Combination	Min	-5.47	0.281	0.021	-0.00026	-0.0025	-0.7798	167-1	0.5
167	1	Envelope	Combination	Min	-5.47	0.455	0.021	-0.00026	-0.0768	-3.8807	167-1	1
170	0	Envelope	Combination	Max	18.036	-0.333	0.053	4.55E-06	0.0242	-0.9256	170-1	0
170	0.5	Envelope	Combination	Max	18.036	-0.159	0.053	4.55E-06	-0.0022	-0.8025	170-1	0.5
170	1	Envelope	Combination	Max	18.036	0.016	0.053	4.55E-06	-0.0013	2.335	170-1	1

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
175	0.625	Envelope	Combination	Min	-5.454	-110.023	-0.116	-2.6E-05	-0.0078	-0.6828	175-1	0.625
175	0.625	Envelope	Combination	Min	-5.454	-0.144	-0.116	-2.6E-05	-0.0078	-0.6828	175-2	0
175	1	Envelope	Combination	Min	-5.454	-0.013	-0.116	-2.6E-05	-0.0093	-31.4415	175-2	0.375
176	0	Envelope	Combination	Max	20.719	-0.149	-0.00546	8.37E-06	-0.0074	-0.7159	176-1	0
176	0.5	Envelope	Combination	Max	20.719	0.026	-0.00546	8.37E-06	-0.0046	-0.6853	176-1	0.5
176	1	Envelope	Combination	Max	20.719	0.2	-0.00546	8.37E-06	-0.0019	-0.7418	176-1	1
176	0	Envelope	Combination	Min	-5.028	-0.149	-0.00546	8.37E-06	-0.009	-0.9126	176-1	0
176	0.5	Envelope	Combination	Min	-5.028	0.026	-0.00546	8.37E-06	-0.0063	-0.8819	176-1	0.5
176	1	Envelope	Combination	Min	-5.028	0.2	-0.00546	8.37E-06	-0.0036	-0.9385	176-1	1
177	0	Envelope	Combination	Max	86.282	0.051	0.106	4.26E-05	0.0589	-0.6433	177-1	0
177	0.375	Envelope	Combination	Max	86.282	0.182	0.106	4.26E-05	0.0192	37.0077	177-1	0.375
177	0.375	Envelope	Combination	Max	86.282	110.061	0.106	4.26E-05	0.0192	37.0077	177-2	0
177	0.6875	Envelope	Combination	Max	86.282	110.17	0.106	4.26E-05	-0.0046	2.5965	177-2	0.3125
177	1	Envelope	Combination	Max	86.282	110.279	0.106	4.26E-05	-0.00019	-0.8685	177-2	0.625
177	0	Envelope	Combination	Min	-5.686	-182.57	-0.014	-6.3E-05	-0.0143	-31.4314	177-1	0
177	0.375	Envelope	Combination	Min	-5.686	-182.439	-0.014	-6.3E-05	-0.009	-0.6868	177-1	0.375
177	0.375	Envelope	Combination	Min	-5.686	0.182	-0.014	-6.3E-05	-0.009	-0.6868	177-2	0
177	0.6875	Envelope	Combination	Min	-5.686	0.291	-0.014	-6.3E-05	-0.0139	-0.7606	177-2	0.3125
177	1	Envelope	Combination	Min	-5.686	0.4	-0.014	-6.3E-05	-0.047	-31.8488	177-2	0.625
180	0	Envelope	Combination	Max	13.751	-0.366	0.00038	0.000527	-0.0076	-0.629	180-1	0
180	0.5	Envelope	Combination	Max	13.751	-0.192	0.00038	0.000527	-0.0077	-0.4895	180-1	0.5
180	1	Envelope	Combination	Max	13.751	-0.017	0.00038	0.000527	0.1273	1.9447	180-1	1

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
180	0	Envelope	Combination	Min	-5.535	-5.219	-0.289	-2.8E-05	-0.1617	-3.0999	180-1	0
180	0.5	Envelope	Combination	Min	-5.535	-5.045	-0.289	-2.8E-05	-0.0172	-0.534	180-1	0.5
180	1	Envelope	Combination	Min	-5.535	-4.87	-0.289	-2.8E-05	-0.0079	-0.4371	180-1	1
181	0	Envelope	Combination	Max	26.368	-0.147	-0.00526	7.18E-06	-0.0095	0.2878	181-1	0
181	0.5	Envelope	Combination	Max	26.368	0.028	-0.00526	7.18E-06	-0.0069	0.3175	181-1	0.5
181	1	Envelope	Combination	Max	26.368	0.202	-0.00526	7.18E-06	-0.0042	0.26	181-1	1
181	0	Envelope	Combination	Min	-5.192	-0.147	-0.00526	7.18E-06	-0.0127	-0.5057	181-1	0
181	0.5	Envelope	Combination	Min	-5.192	0.028	-0.00526	7.18E-06	-0.01	-0.476	181-1	0.5
181	1	Envelope	Combination	Min	-5.192	0.202	-0.00526	7.18E-06	-0.0074	-0.5336	181-1	1
182	0	Envelope	Combination	Max	13.503	4.91	0.279	4.34E-05	0.1224	1.9571	182-1	0
182	0.5	Envelope	Combination	Max	13.503	5.085	0.279	4.34E-05	-0.0076	-0.4971	182-1	0.5
182	1	Envelope	Combination	Max	13.503	5.259	0.279	4.34E-05	-0.0023	-0.6566	182-1	1
182	0	Envelope	Combination	Min	-5.782	0.057	-0.011	-0.00051	-0.0129	-0.4248	182-1	0
182	0.5	Envelope	Combination	Min	-5.782	0.232	-0.011	-0.00051	-0.017	-0.5416	182-1	0.5
182	1	Envelope	Combination	Min	-5.782	0.406	-0.011	-0.00051	-0.1564	-3.1275	182-1	1
185	0	Envelope	Combination	Max	2.183	0.04	-0.033	0.000304	-0.027	-0.1234	185-1	0
185	0.5	Envelope	Combination	Max	2.183	0.214	-0.033	0.000304	-0.0106	-0.187	185-1	0.5
185	1	Envelope	Combination	Max	2.183	0.389	-0.033	0.000304	0.0751	0.085	185-1	1
185	0	Envelope	Combination	Min	-6.532	-0.828	-0.183	3.82E-06	-0.1083	-0.5684	185-1	0
185	0.5	Envelope	Combination	Min	-6.532	-0.653	-0.183	3.82E-06	-0.0166	-0.1981	185-1	0.5
185	1	Envelope	Combination	Min	-6.532	-0.479	-0.183	3.82E-06	0.0058	-0.3378	185-1	1
186	0	Envelope	Combination	Max	4.193	-0.144	-0.00268	1.59E-07	-0.0081	-0.1224	186-1	0

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
186	0.5	Envelope	Combination	Max	4.193	0.031	-0.00268	1.59E-07	-0.0067	-0.0941	186-1	0.5
186	1	Envelope	Combination	Max	4.193	0.205	-0.00268	1.59E-07	-0.0054	-0.153	186-1	1
186	0	Envelope	Combination	Min	-7.43	-0.144	-0.00268	1.59E-07	-0.0116	-0.2065	186-1	0
186	0.5	Envelope	Combination	Min	-7.43	0.031	-0.00268	1.59E-07	-0.0102	-0.1781	186-1	0.5
186	1	Envelope	Combination	Min	-7.43	0.205	-0.00268	1.59E-07	-0.0089	-0.237	186-1	1
187	0	Envelope	Combination	Max	1.939	0.53	0.18	-2.2E-06	0.0732	0.1048	187-1	0
187	0.5	Envelope	Combination	Max	1.939	0.704	0.18	-2.2E-06	-0.0108	-0.1926	187-1	0.5
187	1	Envelope	Combination	Max	1.939	0.879	0.18	-2.2E-06	-0.0254	-0.1543	187-1	1
187	0	Envelope	Combination	Min	-6.776	-0.338	0.029	-0.0003	0.0039	-0.318	187-1	0
187	0.5	Envelope	Combination	Min	-6.776	-0.164	0.029	-0.0003	-0.0168	-0.2037	187-1	0.5
187	1	Envelope	Combination	Min	-6.776	0.011	0.029	-0.0003	-0.1067	-0.5994	187-1	1
190	0	Envelope	Combination	Max	-5.729	1.178	-0.022	3.6E-05	-0.0184	0.8249	190-1	0
190	0.5	Envelope	Combination	Max	-5.729	1.352	-0.022	3.6E-05	-0.0077	0.1925	190-1	0.5
190	1	Envelope	Combination	Max	-5.729	1.526	-0.022	3.6E-05	0.0174	-0.4149	190-1	1
190	0	Envelope	Combination	Min	-9.299	0.95	-0.063	-3.7E-05	-0.0459	0.71	190-1	0
190	0.5	Envelope	Combination	Min	-9.299	1.125	-0.063	-3.7E-05	-0.0143	0.1912	190-1	0.5
190	1	Envelope	Combination	Min	-9.299	1.299	-0.063	-3.7E-05	0.0031	-0.5271	190-1	1
191	0	Envelope	Combination	Max	-7.962	-0.184	0.002633	-1.5E-05	0.0042	0.0193	191-1	0
191	0.5	Envelope	Combination	Max	-7.962	-0.01	0.002633	-1.5E-05	0.0029	0.068	191-1	0.5
191	1	Envelope	Combination	Max	-7.962	0.164	0.002633	-1.5E-05	0.0016	0.0294	191-1	1
191	0	Envelope	Combination	Min	-11.391	-0.184	0.002633	-1.5E-05	0.0031	0.0117	191-1	0
191	0.5	Envelope	Combination	Min	-11.391	-0.01	0.002633	-1.5E-05	0.0018	0.0604	191-1	0.5

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
191	1	Envelope	Combination	Min	-11.391	0.164	0.002633	-1.5E-05	0.000456	0.0218	191-1	1
192	0	Envelope	Combination	Max	-5.808	-1.325	0.065	8.88E-06	0.0191	-0.4236	192-1	0
192	0.5	Envelope	Combination	Max	-5.808	-1.151	0.065	8.88E-06	-0.0069	0.1966	192-1	0.5
192	1	Envelope	Combination	Max	-5.808	-0.976	0.065	8.88E-06	-0.0187	0.8418	192-1	1
192	0	Envelope	Combination	Min	-9.378	-1.552	0.024	-6.4E-05	0.0049	-0.5358	192-1	0
192	0.5	Envelope	Combination	Min	-9.378	-1.378	0.024	-6.4E-05	-0.0135	0.1953	192-1	0.5
192	1	Envelope	Combination	Min	-9.378	-1.203	0.024	-6.4E-05	-0.0462	0.7269	192-1	1
196	0	Envelope	Combination	Max	-7.216	-20.157	0.002476	-3E-05	-0.00067	-2.3072	196-1	0
196	0.3125	Envelope	Combination	Max	-7.216	-6.415	0.002476	-3E-05	-0.0014	2.1072	196-1	0.3125
196	0.625	Envelope	Combination	Max	-7.216	9.006	0.002476	-3E-05	-0.0022	7.4478	196-1	0.625
196	0.625	Envelope	Combination	Max	-7.216	45.061	0.002476	-3E-05	-0.0022	7.4478	196-2	0
196	1	Envelope	Combination	Max	-7.216	45.192	0.002476	-3E-05	-0.00061	-5.1449	196-2	0.375
196	0	Envelope	Combination	Min	-7.579	-21.837	-0.00493	-8.8E-05	-0.0055	-5.082	196-1	0
196	0.3125	Envelope	Combination	Min	-7.579	-20.048	-0.00493	-8.8E-05	-0.004	1.1999	196-1	0.3125
196	0.625	Envelope	Combination	Min	-7.579	-19.939	-0.00493	-8.8E-05	-0.0025	1.7023	196-1	0.625
196	0.625	Envelope	Combination	Min	-7.579	9.006	-0.00493	-8.8E-05	-0.0025	1.7023	196-2	0
196	1	Envelope	Combination	Min	-7.579	27.512	-0.00493	-8.8E-05	-0.0031	-9.4748	196-2	0.375
197	0	Envelope	Combination	Max	-3.607	0.447	0.013	-2.5E-05	0.0105	0.4653	197-1	0
197	0.5	Envelope	Combination	Max	-3.607	0.621	0.013	-2.5E-05	0.0042	2.3671	197-1	0.5
197	1	Envelope	Combination	Max	-3.607	25.295	0.013	-2.5E-05	-0.0022	-0.1557	197-1	1
197	0	Envelope	Combination	Min	-6.099	-24.053	0.013	-2.5E-05	0.0068	-3.491	197-1	0
197	0.5	Envelope	Combination	Min	-6.099	0.621	0.013	-2.5E-05	0.000455	0.1984	197-1	0.5

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
197	1	Envelope	Combination	Min	-6.099	0.795	0.013	-2.5E-05	-0.0059	-4.112	197-1	1
198	0	Envelope	Combination	Max	-7.11	-26.253	0.031	3.68E-05	0.0121	-4.5207	198-1	0
198	0.375	Envelope	Combination	Max	-7.11	-7.747	0.031	3.68E-05	0.000866	7.5997	198-1	0.375
198	0.375	Envelope	Combination	Max	-7.11	21.198	0.031	3.68E-05	0.000866	7.5997	198-2	0
198	0.6875	Envelope	Combination	Max	-7.11	21.307	0.031	3.68E-05	-0.0064	1.8656	198-2	0.3125
198	1	Envelope	Combination	Max	-7.11	23.096	0.031	3.68E-05	-0.0136	-2.9422	198-2	0.625
198	0	Envelope	Combination	Min	-7.472	-43.933	0.023	-2.1E-05	0.0095	-8.8507	198-1	0
198	0.375	Envelope	Combination	Min	-7.472	-43.802	0.023	-2.1E-05	0.000625	1.8543	198-1	0.375
198	0.375	Envelope	Combination	Min	-7.472	-7.747	0.023	-2.1E-05	0.000625	1.8543	198-2	0
198	0.6875	Envelope	Combination	Min	-7.472	7.674	0.023	-2.1E-05	-0.0089	0.9584	198-2	0.3125
198	1	Envelope	Combination	Min	-7.472	21.416	0.023	-2.1E-05	-0.0185	-5.717	198-2	0.625
201	0	Envelope	Combination	Max	-4.449	0.793	0.05	-9.7E-06	0.0352	0.5969	201-1	0
201	0.5	Envelope	Combination	Max	-4.449	0.968	0.05	-9.7E-06	0.0104	0.1846	201-1	0.5
201	1	Envelope	Combination	Max	-4.449	1.142	0.05	-9.7E-06	-0.0143	-0.3149	201-1	1
201	0	Envelope	Combination	Min	-8.821	0.737	0.046	-3.4E-05	0.032	0.5829	201-1	0
201	0.5	Envelope	Combination	Min	-8.821	0.912	0.046	-3.4E-05	0.0088	0.1426	201-1	0.5
201	1	Envelope	Combination	Min	-8.821	1.086	0.046	-3.4E-05	-0.0143	-0.3849	201-1	1
202	0	Envelope	Combination	Max	-6.696	-0.214	0.017	-2.5E-05	0.0078	0.1003	202-1	0
202	0.5	Envelope	Combination	Max	-6.696	-0.04	0.017	-2.5E-05	-0.00076	0.1637	202-1	0.5
202	1	Envelope	Combination	Max	-6.696	0.135	0.017	-2.5E-05	-0.0093	0.1399	202-1	1
202	0	Envelope	Combination	Min	-10.749	-0.214	0.017	-2.5E-05	0.0021	-0.0063	202-1	0
202	0.5	Envelope	Combination	Min	-10.749	-0.04	0.017	-2.5E-05	-0.0064	0.0571	202-1	0.5

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
202	1	Envelope	Combination	Min	-10.749	0.135	0.017	-2.5E-05	-0.0149	0.0333	202-1	1
203	0	Envelope	Combination	Max	-4.465	-1.165	-0.00854	-1.8E-05	0.0036	-0.3485	203-1	0
203	0.5	Envelope	Combination	Max	-4.465	-0.991	-0.00854	-1.8E-05	0.0095	0.1905	203-1	0.5
203	1	Envelope	Combination	Max	-4.465	-0.816	-0.00854	-1.8E-05	0.0154	0.6423	203-1	1
203	0	Envelope	Combination	Min	-8.837	-1.221	-0.012	-4.2E-05	0.0036	-0.4185	203-1	0
203	0.5	Envelope	Combination	Min	-8.837	-1.047	-0.012	-4.2E-05	0.0079	0.1485	203-1	0.5
203	1	Envelope	Combination	Min	-8.837	-0.872	-0.012	-4.2E-05	0.0122	0.6282	203-1	1
206	0	Envelope	Combination	Max	-3.075	-0.041	0.037	-1.5E-05	0.0287	0.029	206-1	0
206	0.5	Envelope	Combination	Max	-3.075	0.133	0.037	-1.5E-05	0.0102	0.0061	206-1	0.5
206	1	Envelope	Combination	Max	-3.075	0.307	0.037	-1.5E-05	-0.0083	-0.104	206-1	1
206	0	Envelope	Combination	Min	-6.749	-0.069	0.036	-4.2E-05	0.0185	-0.2408	206-1	0
206	0.5	Envelope	Combination	Min	-6.749	0.105	0.036	-4.2E-05	0.000521	-0.2498	206-1	0.5
206	1	Envelope	Combination	Min	-6.749	0.28	0.036	-4.2E-05	-0.0174	-0.3461	206-1	1
207	0	Envelope	Combination	Max	-3.645	-0.149	0.014	-2.3E-05	0.0152	-0.0396	207-1	0
207	0.5	Envelope	Combination	Max	-3.645	0.026	0.014	-2.3E-05	0.0083	-0.0088	207-1	0.5
207	1	Envelope	Combination	Max	-3.645	0.2	0.014	-2.3E-05	0.0014	-0.0652	207-1	1
207	0	Envelope	Combination	Min	-7.335	-0.149	0.014	-2.3E-05	0.0144	-0.2684	207-1	0
207	0.5	Envelope	Combination	Min	-7.335	0.026	0.014	-2.3E-05	0.0075	-0.2376	207-1	0.5
207	1	Envelope	Combination	Min	-7.335	0.2	0.014	-2.3E-05	0.000596	-0.294	207-1	1
208	0	Envelope	Combination	Max	-3.288	-0.231	-0.01	-4.7E-06	0.0046	-0.0835	208-1	0
208	0.5	Envelope	Combination	Max	-3.288	-0.056	-0.01	-4.7E-06	0.0102	0.0019	208-1	0.5
208	1	Envelope	Combination	Max	-3.288	0.118	-0.01	-4.7E-06	0.0159	0.000125	208-1	1

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
208	0	Envelope	Combination	Min	-6.962	-0.258	-0.011	-3.1E-05	-0.0045	-0.3256	208-1	0
208	0.5	Envelope	Combination	Min	-6.962	-0.084	-0.011	-3.1E-05	0.000545	-0.254	208-1	0.5
208	1	Envelope	Combination	Min	-6.962	0.091	-0.011	-3.1E-05	0.0056	-0.2696	208-1	1
211	0	Envelope	Combination	Max	-2.582	-0.303	0.006852	2.77E-05	0.0104	-0.2659	211-1	0
211	0.5	Envelope	Combination	Max	-2.582	-0.128	0.006852	2.77E-05	0.0087	-0.1582	211-1	0.5
211	1	Envelope	Combination	Max	-2.582	0.046	0.006852	2.77E-05	0.0085	-0.1376	211-1	1
211	0	Envelope	Combination	Min	-6.024	-0.385	0.000406	1.51E-06	0.0089	-0.7128	211-1	0
211	0.5	Envelope	Combination	Min	-6.024	-0.211	0.000406	1.51E-06	0.007	-0.5638	211-1	0.5
211	1	Envelope	Combination	Min	-6.024	-0.036	0.000406	1.51E-06	0.0035	-0.5021	211-1	1
212	0	Envelope	Combination	Max	-2.367	-0.152	0.01	-1.6E-05	0.0116	-0.1801	212-1	0
212	0.5	Envelope	Combination	Max	-2.367	0.023	0.01	-1.6E-05	0.0065	-0.1477	212-1	0.5
212	1	Envelope	Combination	Max	-2.367	0.197	0.01	-1.6E-05	0.0014	-0.2027	212-1	1
212	0	Envelope	Combination	Min	-5.62	-0.152	0.01	-1.6E-05	0.0049	-0.5784	212-1	0
212	0.5	Envelope	Combination	Min	-5.62	0.023	0.01	-1.6E-05	-0.00018	-0.5461	212-1	0.5
212	1	Envelope	Combination	Min	-5.62	0.197	0.01	-1.6E-05	-0.0053	-0.601	212-1	1
213	0	Envelope	Combination	Max	-2.809	0.072	0.019	-3.5E-05	0.0182	-0.1264	213-1	0
213	0.5	Envelope	Combination	Max	-2.809	0.246	0.019	-3.5E-05	0.0085	-0.1646	213-1	0.5
213	1	Envelope	Combination	Max	-2.809	0.421	0.019	-3.5E-05	0.000182	-0.2901	213-1	1
213	0	Envelope	Combination	Min	-6.25	-0.011	0.013	-6.1E-05	0.0132	-0.4909	213-1	0
213	0.5	Envelope	Combination	Min	-6.25	0.164	0.013	-6.1E-05	0.0067	-0.5703	213-1	0.5
213	1	Envelope	Combination	Min	-6.25	0.338	0.013	-6.1E-05	-0.0013	-0.737	213-1	1
216	0	Envelope	Combination	Max	-2.513	-0.283	-0.00104	3.2E-05	0.004	-0.3729	216-1	0

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
216	0.5	Envelope	Combination	Max	-2.513	-0.108	-0.00104	3.2E-05	0.0071	-0.2751	216-1	0.5
216	1	Envelope	Combination	Max	-2.513	0.066	-0.00104	3.2E-05	0.0102	-0.2645	216-1	1
216	0	Envelope	Combination	Min	-6.042	-0.341	-0.00629	1.45E-05	0.000912	-0.9091	216-1	0
216	0.5	Envelope	Combination	Min	-6.042	-0.166	-0.00629	1.45E-05	0.0014	-0.7822	216-1	0.5
216	1	Envelope	Combination	Min	-6.042	0.007973	-0.00629	1.45E-05	0.002	-0.7426	216-1	1
217	0	Envelope	Combination	Max	-2.307	-0.152	0.005631	-7.2E-06	0.0084	-0.2969	217-1	0
217	0.5	Envelope	Combination	Max	-2.307	0.022	0.005631	-7.2E-06	0.0056	-0.2643	217-1	0.5
217	1	Envelope	Combination	Max	-2.307	0.196	0.005631	-7.2E-06	0.0028	-0.3189	217-1	1
217	0	Envelope	Combination	Min	-5.662	-0.152	0.005631	-7.2E-06	0.0073	-0.7991	217-1	0
217	0.5	Envelope	Combination	Min	-5.662	0.022	0.005631	-7.2E-06	0.0044	-0.7665	217-1	0.5
217	1	Envelope	Combination	Min	-5.662	0.196	0.005631	-7.2E-06	0.0016	-0.8212	217-1	1
218	0	Envelope	Combination	Max	-2.73	0.027	0.016	-2.9E-05	0.0152	-0.2551	218-1	0
218	0.5	Envelope	Combination	Max	-2.73	0.201	0.016	-2.9E-05	0.007	-0.2829	218-1	0.5
218	1	Envelope	Combination	Max	-2.73	0.375	0.016	-2.9E-05	-0.0011	-0.398	218-1	1
218	0	Envelope	Combination	Min	-6.258	-0.032	0.011	-4.6E-05	0.0069	-0.7331	218-1	0
218	0.5	Envelope	Combination	Min	-6.258	0.143	0.011	-4.6E-05	0.0014	-0.79	218-1	0.5
218	1	Envelope	Combination	Min	-6.258	0.317	0.011	-4.6E-05	-0.0041	-0.9341	218-1	1
221	0	Envelope	Combination	Max	-2.604	-0.246	0.001119	1.15E-05	0.0061	-0.42	221-1	0
221	0.5	Envelope	Combination	Max	-2.604	-0.071	0.001119	1.15E-05	0.0056	-0.3408	221-1	0.5
221	1	Envelope	Combination	Max	-2.604	0.103	0.001119	1.15E-05	0.005	-0.3489	221-1	1
221	0	Envelope	Combination	Min	-6.17	-0.272	-0.00183	8.76E-06	0.003	-0.9794	221-1	0
221	0.5	Envelope	Combination	Min	-6.17	-0.098	-0.00183	8.76E-06	0.0039	-0.8868	221-1	0.5

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
221	1	Envelope	Combination	Min	-6.17	0.076	-0.00183	8.76E-06	0.0048	-0.8815	221-1	1
222	0	Envelope	Combination	Max	-2.462	-0.153	0.000175	3.38E-06	0.0039	-0.3685	222-1	0
222	0.5	Envelope	Combination	Max	-2.462	0.021	0.000175	3.38E-06	0.0038	-0.3355	222-1	0.5
222	1	Envelope	Combination	Max	-2.462	0.196	0.000175	3.38E-06	0.0037	-0.3898	222-1	1
222	0	Envelope	Combination	Min	-5.942	-0.153	0.000175	3.38E-06	0.000586	-0.9111	222-1	0
222	0.5	Envelope	Combination	Min	-5.942	0.021	0.000175	3.38E-06	0.000498	-0.8781	222-1	0.5
222	1	Envelope	Combination	Min	-5.942	0.196	0.000175	3.38E-06	0.000411	-0.9324	222-1	1
223	0	Envelope	Combination	Max	-2.816	-0.042	0.001325	-2.4E-06	0.0047	-0.3405	223-1	0
223	0.5	Envelope	Combination	Max	-2.816	0.132	0.001325	-2.4E-06	0.0055	-0.3494	223-1	0.5
223	1	Envelope	Combination	Max	-2.816	0.306	0.001325	-2.4E-06	0.0063	-0.4456	223-1	1
223	0	Envelope	Combination	Min	-6.382	-0.069	-0.00163	-5.1E-06	0.0045	-0.873	223-1	0
223	0.5	Envelope	Combination	Min	-6.382	0.105	-0.00163	-5.1E-06	0.0038	-0.8954	223-1	0.5
223	1	Envelope	Combination	Min	-6.382	0.28	-0.00163	-5.1E-06	0.0032	-1.005	223-1	1
226	0	Envelope	Combination	Max	-2.58	-0.247	0.019	-1.8E-06	0.0118	-0.4274	226-1	0
226	0.5	Envelope	Combination	Max	-2.58	-0.072	0.019	-1.8E-06	0.0021	-0.3475	226-1	0.5
226	1	Envelope	Combination	Max	-2.58	0.102	0.019	-1.8E-06	-0.0014	-0.3549	226-1	1
226	0	Envelope	Combination	Min	-6.098	-0.291	0.003458	-3.2E-05	0.002	-0.9659	226-1	0
226	0.5	Envelope	Combination	Min	-6.098	-0.117	0.003458	-3.2E-05	0.000316	-0.8639	226-1	0.5
226	1	Envelope	Combination	Min	-6.098	0.058	0.003458	-3.2E-05	-0.0075	-0.8492	226-1	1
227	0	Envelope	Combination	Max	-2.424	-0.153	-0.00493	1.35E-05	0.000774	-0.375	227-1	0
227	0.5	Envelope	Combination	Max	-2.424	0.021	-0.00493	1.35E-05	0.0032	-0.342	227-1	0.5
227	1	Envelope	Combination	Max	-2.424	0.196	-0.00493	1.35E-05	0.0057	-0.3962	227-1	1

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
227	0	Envelope	Combination	Min	-5.773	-0.153	-0.00493	1.35E-05	-0.00013	-0.8879	227-1	0
227	0.5	Envelope	Combination	Min	-5.773	0.021	-0.00493	1.35E-05	0.0023	-0.8549	227-1	0.5
227	1	Envelope	Combination	Min	-5.773	0.196	-0.00493	1.35E-05	0.0048	-0.9091	227-1	1
228	0	Envelope	Combination	Max	-2.79	-0.024	-0.014	5.93E-05	-0.0069	-0.3473	228-1	0
228	0.5	Envelope	Combination	Max	-2.79	0.15	-0.014	5.93E-05	0.0022	-0.3567	228-1	0.5
228	1	Envelope	Combination	Max	-2.79	0.325	-0.014	5.93E-05	0.0173	-0.4534	228-1	1
228	0	Envelope	Combination	Min	-6.307	-0.068	-0.03	2.87E-05	-0.0129	-0.8416	228-1	0
228	0.5	Envelope	Combination	Min	-6.307	0.106	-0.03	2.87E-05	0.000361	-0.8731	228-1	0.5
228	1	Envelope	Combination	Min	-6.307	0.281	-0.03	2.87E-05	0.0076	-0.9919	228-1	1
231	0	Envelope	Combination	Max	-2.341	-0.324	0.035	-1.3E-05	0.0182	-0.4096	231-1	0
231	0.5	Envelope	Combination	Max	-2.341	-0.149	0.035	-1.3E-05	0.001	-0.2912	231-1	0.5
231	1	Envelope	Combination	Max	-2.341	0.025	0.035	-1.3E-05	-0.0029	-0.2601	231-1	1
231	0	Envelope	Combination	Min	-5.508	-0.479	0.007854	-6.8E-05	0.0049	-0.9056	231-1	0
231	0.5	Envelope	Combination	Min	-5.508	-0.305	0.007854	-6.8E-05	0.000783	-0.7096	231-1	0.5
231	1	Envelope	Combination	Min	-5.508	-0.13	0.007854	-6.8E-05	-0.0166	-0.6008	231-1	1
232	0	Envelope	Combination	Max	-2.015	-0.152	-0.00943	2.17E-05	-0.0061	-0.3134	232-1	0
232	0.5	Envelope	Combination	Max	-2.015	0.023	-0.00943	2.17E-05	-0.0013	-0.2812	232-1	0.5
232	1	Envelope	Combination	Max	-2.015	0.197	-0.00943	2.17E-05	0.0034	-0.3362	232-1	1
232	0	Envelope	Combination	Min	-4.781	-0.152	-0.00943	2.17E-05	-0.0068	-0.7199	232-1	0
232	0.5	Envelope	Combination	Min	-4.781	0.023	-0.00943	2.17E-05	-0.0021	-0.6877	232-1	0.5
232	1	Envelope	Combination	Min	-4.781	0.197	-0.00943	2.17E-05	0.0026	-0.7427	232-1	1
233	0	Envelope	Combination	Max	-2.553	0.168	-0.027	0.000112	-0.0126	-0.2508	233-1	0

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
233	0.5	Envelope	Combination	Max	-2.553	0.342	-0.027	0.000112	0.00098	-0.3006	233-1	0.5
233	1	Envelope	Combination	Max	-2.553	0.517	-0.027	0.000112	0.0278	-0.4376	233-1	1
233	0	Envelope	Combination	Min	-5.72	0.012	-0.054	5.71E-05	-0.0263	-0.5914	233-1	0
233	0.5	Envelope	Combination	Min	-5.72	0.187	-0.054	5.71E-05	0.000754	-0.7189	233-1	0.5
233	1	Envelope	Combination	Min	-5.72	0.361	-0.054	5.71E-05	0.0146	-0.9336	233-1	1
236	0	Envelope	Combination	Max	-1.614	-0.339	0.038	-2.6E-05	0.0123	-0.2793	236-1	0
236	0.5	Envelope	Combination	Max	-1.614	-0.164	0.038	-2.6E-05	-0.0032	-0.1536	236-1	0.5
236	1	Envelope	Combination	Max	-1.614	0.01	0.038	-2.6E-05	-0.0069	-0.115	236-1	1
236	0	Envelope	Combination	Min	-3.813	-0.518	0.007478	-0.0001	0.000582	-0.5929	236-1	0
236	0.5	Envelope	Combination	Min	-3.813	-0.343	0.007478	-0.0001	-0.0065	-0.3777	236-1	0.5
236	1	Envelope	Combination	Min	-3.813	-0.169	0.007478	-0.0001	-0.0253	-0.2496	236-1	1
237	0	Envelope	Combination	Max	-1.377	-0.167	-0.012	2.61E-05	-0.0068	-0.1543	237-1	0
237	0.5	Envelope	Combination	Max	-1.377	0.007152	-0.012	2.61E-05	-0.00097	-0.1142	237-1	0.5
237	1	Envelope	Combination	Max	-1.377	0.182	-0.012	2.61E-05	0.0049	-0.1614	237-1	1
237	0	Envelope	Combination	Min	-3.246	-0.167	-0.012	2.61E-05	-0.0092	-0.3273	237-1	0
237	0.5	Envelope	Combination	Min	-3.246	0.007152	-0.012	2.61E-05	-0.0033	-0.2872	237-1	0.5
237	1	Envelope	Combination	Min	-3.246	0.182	-0.012	2.61E-05	0.0025	-0.3344	237-1	1
238	0	Envelope	Combination	Max	-1.784	0.184	-0.033	0.000156	-0.0195	-0.1147	238-1	0
238	0.5	Envelope	Combination	Max	-1.784	0.358	-0.033	0.000156	-0.0028	-0.1608	238-1	0.5
238	1	Envelope	Combination	Max	-1.784	0.533	-0.033	0.000156	0.0255	-0.294	238-1	1
238	0	Envelope	Combination	Min	-3.983	0.004811	-0.063	7.96E-05	-0.0379	-0.2493	238-1	0
238	0.5	Envelope	Combination	Min	-3.983	0.179	-0.063	7.96E-05	-0.0062	-0.3848	238-1	0.5

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
238	1	Envelope	Combination	Min	-3.983	0.354	-0.063	7.96E-05	0.0138	-0.6076	238-1	1
241	0	Envelope	Combination	Max	-1.516	1.67	0.161	-7.7E-05	0.1148	1.2436	241-1	0
241	0.5	Envelope	Combination	Max	-1.516	1.844	0.161	-7.7E-05	0.0345	0.365	241-1	0.5
241	1	Envelope	Combination	Max	-1.516	2.019	0.161	-7.7E-05	-0.0141	-0.0728	241-1	1
241	0	Envelope	Combination	Min	-6.874	0.068	0.047	-0.0004	0.0326	0.1692	241-1	0
241	0.5	Envelope	Combination	Min	-6.874	0.242	0.047	-0.0004	0.0092	0.0918	241-1	0.5
241	1	Envelope	Combination	Min	-6.874	0.417	0.047	-0.0004	-0.0459	-0.6008	241-1	1
242	0	Envelope	Combination	Max	-0.327	-0.231	0.003416	-5.9E-06	0.0208	0.1901	242-1	0
242	0.5	Envelope	Combination	Max	-0.327	-0.057	0.003416	-5.9E-06	0.0191	0.2621	242-1	0.5
242	1	Envelope	Combination	Max	-0.327	0.118	0.003416	-5.9E-06	0.0174	0.2467	242-1	1
242	0	Envelope	Combination	Min	-4.855	-0.231	0.003416	-5.9E-06	0.0048	-0.0407	242-1	0
242	0.5	Envelope	Combination	Min	-4.855	-0.057	0.003416	-5.9E-06	0.0031	0.0312	242-1	0.5
242	1	Envelope	Combination	Min	-4.855	0.118	0.003416	-5.9E-06	0.0014	0.0159	242-1	1
243	0	Envelope	Combination	Max	-1.52	-0.53	-0.039	0.000385	-0.0105	-0.1295	243-1	0
243	0.5	Envelope	Combination	Max	-1.52	-0.356	-0.039	0.000385	0.0343	0.3652	243-1	0.5
243	1	Envelope	Combination	Max	-1.52	-0.181	-0.039	0.000385	0.1108	1.3006	243-1	1
243	0	Envelope	Combination	Min	-6.878	-2.133	-0.153	6.5E-05	-0.0423	-0.6575	243-1	0
243	0.5	Envelope	Combination	Min	-6.878	-1.958	-0.153	6.5E-05	0.0091	0.092	243-1	0.5
243	1	Envelope	Combination	Min	-6.878	-1.784	-0.153	6.5E-05	0.0286	0.2263	243-1	1
246	0	Envelope	Combination	Max	-1.329	-0.234	0.02	-3E-05	-0.0037	-0.0479	246-1	0
246	0.5	Envelope	Combination	Max	-1.329	-0.059	0.02	-3E-05	-0.0056	0.038	246-1	0.5
246	1	Envelope	Combination	Max	-1.329	0.115	0.02	-3E-05	-0.0053	0.0826	246-1	1

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
246	0	Envelope	Combination	Min	-3.2	-0.351	-0.0006	-0.00011	-0.0059	-0.0937	246-1	0
246	0.5	Envelope	Combination	Min	-3.2	-0.176	-0.0006	-0.00011	-0.0138	0.0253	246-1	0.5
246	1	Envelope	Combination	Min	-3.2	-0.00179	-0.0006	-0.00011	-0.0239	0.0113	246-1	1
247	0	Envelope	Combination	Max	-1.111	-0.141	-0.013	2.68E-05	-0.0075	-0.0522	247-1	0
247	0.5	Envelope	Combination	Max	-1.111	0.034	-0.013	2.68E-05	-0.0012	-0.0255	247-1	0.5
247	1	Envelope	Combination	Max	-1.111	0.208	-0.013	2.68E-05	0.0052	-0.0859	247-1	1
247	0	Envelope	Combination	Min	-2.668	-0.141	-0.013	2.68E-05	-0.0087	-0.1018	247-1	0
247	0.5	Envelope	Combination	Min	-2.668	0.034	-0.013	2.68E-05	-0.0023	-0.075	247-1	0.5
247	1	Envelope	Combination	Min	-2.668	0.208	-0.013	2.68E-05	0.0041	-0.1355	247-1	1
248	0	Envelope	Combination	Max	-1.44	0.086	-0.027	0.000169	-0.0188	0.1194	248-1	0
248	0.5	Envelope	Combination	Max	-1.44	0.26	-0.027	0.000169	-0.0054	0.0328	248-1	0.5
248	1	Envelope	Combination	Max	-1.44	0.435	-0.027	0.000169	0.0102	-0.0951	248-1	1
248	0	Envelope	Combination	Min	-3.31	-0.031	-0.048	8.57E-05	-0.0374	0.0481	248-1	0
248	0.5	Envelope	Combination	Min	-3.31	0.143	-0.048	8.57E-05	-0.0136	0.0201	248-1	0.5
248	1	Envelope	Combination	Min	-3.31	0.318	-0.048	8.57E-05	0.008	-0.1409	248-1	1

Lampiran 24 Tabel gaya dalam ultimit dari gelagar melintang jembatan rencana

Gaya Dalam Maksimum											
P		V2		V3		T		M2		M3	
Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif
KN	KN	KN	KN	KN	KN	KN-m	KN-m	KN-m	KN-m	KN-m	KN-m
86.514	-11.391	183.421	-183.383	0.279	-0.289	0.00053	-0.00054	0.1459	-0.1617	37.2233	-31.8488

Lampiran 25 Tabel hasil analisis SAP2000 pada gelagar memanjang jembatan rencana

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
1	0	Envelope	Combination	Max	-109.038	-69.436	-0.903	0.0039	-0.3611	-43.2456	1-1	0
1	0.40069	Envelope	Combination	Max	-109.014	-69.035	-0.799	0.0039	-0.0056	-15.5033	1-1	0.40069
1	0.80139	Envelope	Combination	Max	-108.991	-68.634	-0.695	0.0039	0.377	12.0784	1-1	0.80139
1	0	Envelope	Combination	Min	-564.864	-183.017	-1.111	0.0027	-0.43	-163.415	1-1	0
1	0.40069	Envelope	Combination	Min	-564.84	-182.616	-1.007	0.0027	-0.0201	-90.1616	1-1	0.40069
1	0.80139	Envelope	Combination	Min	-564.817	-182.215	-0.903	0.0027	0.2792	-17.069	1-1	0.80139
2	0	Envelope	Combination	Max	8.182	-54.494	0.582	0.0021	0.4703	-25.2652	2-1	0
2	0.7513	Envelope	Combination	Max	8.226	-53.742	0.778	0.0021	0.017	15.3935	2-1	0.7513
2	1.5026	Envelope	Combination	Max	8.271	-52.99	0.973	0.0021	0.0848	139.95	2-1	1.5026
2	0	Envelope	Combination	Min	-212.084	-180.433	-0.384	-0.0099	-0.1977	-130.039	2-1	0
2	0.7513	Envelope	Combination	Min	-212.04	-179.681	-0.188	-0.0099	-0.0405	5.2379	2-1	0.7513
2	1.5026	Envelope	Combination	Min	-211.996	-178.929	0.007473	-0.0099	-0.6981	55.4871	2-1	1.5026

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
3	0	Envelope	Combination	Max	114.091	-29.501	-0.295	0.013	-0.1346	39.2451	3-1	0
3	0.7513	Envelope	Combination	Max	114.135	-28.749	-0.1	0.013	0.0136	82.6888	3-1	0.7513
3	1.5026	Envelope	Combination	Max	114.179	-27.997	0.096	0.013	0.8104	125.5676	3-1	1.5026
3	0	Envelope	Combination	Min	93.282	-58.201	-1.386	0.001	-0.9791	20.1051	3-1	0
3	0.7513	Envelope	Combination	Min	93.326	-57.449	-1.191	0.001	-0.0109	41.9869	3-1	0.7513
3	1.5026	Envelope	Combination	Min	93.371	-56.697	-0.995	0.001	0.015	63.3038	3-1	1.5026
4	0	Envelope	Combination	Max	205.057	-4.734	-0.203	0.000664	-0.0623	87.5332	4-1	0
4	0.7513	Envelope	Combination	Max	205.101	-3.982	-0.00715	0.000664	0.0337	112.2685	4-1	0.7513
4	1.5026	Envelope	Combination	Max	205.145	-3.23	0.188	0.000664	0.0209	136.4388	4-1	1.5026
4	0	Envelope	Combination	Min	156.159	-33.299	-0.276	0.000189	-0.1004	49.3801	4-1	0
4	0.7513	Envelope	Combination	Min	156.204	-32.547	-0.081	0.000189	0.0165	52.6546	4-1	0.7513
4	1.5026	Envelope	Combination	Min	156.248	-31.795	0.115	0.000189	-0.0515	55.3641	4-1	1.5026
5	0	Envelope	Combination	Max	257.086	19.87	0.866	-0.00066	0.7108	119.2577	5-1	0
5	0.7513	Envelope	Combination	Max	257.13	20.622	1.062	-0.00066	0.0135	125.0047	5-1	0.7513
5	1.5026	Envelope	Combination	Max	257.174	21.374	1.257	-0.00066	-0.12	130.1868	5-1	1.5026
5	0	Envelope	Combination	Min	136.01	-8.025	-0.116	-0.012	0.000123	62.4646	5-1	0
5	0.7513	Envelope	Combination	Min	136.054	-7.273	0.08	-0.012	-0.0134	47.2537	5-1	0.7513
5	1.5026	Envelope	Combination	Min	136.099	-6.521	0.275	-0.012	-0.8844	31.4778	5-1	1.5026
6	0	Envelope	Combination	Max	122.056	116.908	-0.043	0.0105	0.0567	177.8755	6-1	0
6	0.7513	Envelope	Combination	Max	122.1	117.66	0.152	0.0105	0.0156	89.7602	6-1	0.7513
6	1.5026	Envelope	Combination	Max	122.145	118.412	0.348	0.0105	0.5627	1.08	6-1	1.5026
6	0	Envelope	Combination	Min	53.596	44.579	-1.064	-0.0014	-0.7422	59.6801	6-1	0

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
6	0.7513	Envelope	Combination	Min	53.641	45.331	-0.868	-0.0014	-0.0163	25.905	6-1	0.7513
6	1.5026	Envelope	Combination	Min	53.685	46.083	-0.673	-0.0014	-0.1723	-8.435	6-1	1.5026
7	0	Envelope	Combination	Max	-91.338	139.442	0.012	-0.00058	0.0908	110.924	7-1	0
7	0.7513	Envelope	Combination	Max	-91.294	140.194	0.207	-0.00058	0.0222	5.8789	7-1	0.7513
7	1.5026	Envelope	Combination	Max	-91.249	140.946	0.403	-0.00058	-0.1202	-64.3215	7-1	1.5026
7	0	Envelope	Combination	Min	-203.653	69.359	-0.104	-0.0019	0.0178	41.0271	7-1	0
7	0.7513	Envelope	Combination	Min	-203.609	70.111	0.092	-0.0019	0.0083	-11.3647	7-1	0.7513
7	1.5026	Envelope	Combination	Min	-203.565	70.863	0.287	-0.0019	-0.221	-99.731	7-1	1.5026
8	0	Envelope	Combination	Max	-298.356	152.345	-0.044	-0.0019	0.0861	25.616	8-1	0
8	0.7513	Envelope	Combination	Max	-298.311	153.097	0.151	-0.0019	0.046	-63.9628	8-1	0.7513
8	1.5026	Envelope	Combination	Max	-298.267	153.849	0.347	-0.0019	-0.1409	-134.62	8-1	1.5026
8	0	Envelope	Combination	Min	-574.168	92.919	-0.046	-0.002	0.0791	6.1296	8-1	0
8	0.7513	Envelope	Combination	Min	-574.124	93.671	0.149	-0.002	0.0405	-89.1233	8-1	0.7513
8	1.5026	Envelope	Combination	Min	-574.08	94.423	0.345	-0.002	-0.1449	-204.428	8-1	1.5026
9	0	Envelope	Combination	Max	-480.137	148.737	0.988	-0.0027	0.4256	-75.9514	9-1	0
9	0.37565	Envelope	Combination	Max	-480.114	149.113	1.086	-0.0027	0.0703	-114.062	9-1	0.37565
9	0.7513	Envelope	Combination	Max	-480.092	149.489	1.183	-0.0027	-0.2865	-152.314	9-1	0.7513
9	0	Envelope	Combination	Min	-861.017	101.265	0.803	-0.0033	0.3903	-111.678	9-1	0
9	0.37565	Envelope	Combination	Min	-860.995	101.641	0.901	-0.0033	0.0361	-167.621	9-1	0.37565
9	0.7513	Envelope	Combination	Min	-860.973	102.017	0.999	-0.0033	-0.3901	-223.706	9-1	0.7513
10	0	Envelope	Combination	Max	-224.159	-49.106	-0.74	0.0041	-0.2337	-76.1926	10-1	0
10	0.37565	Envelope	Combination	Max	-224.181	-48.73	-0.642	0.0041	0.0258	-57.8167	10-1	0.37565

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
10	0.7513	Envelope	Combination	Max	-224.203	-48.354	-0.544	0.0041	0.4917	-39.5819	10-1	0.7513
10	0	Envelope	Combination	Min	-329.537	-101.468	-1.391	0.0027	-0.4797	-124.997	10-1	0
10	0.37565	Envelope	Combination	Min	-329.559	-101.092	-1.293	0.0027	0.0243	-86.9509	10-1	0.37565
10	0.7513	Envelope	Combination	Min	-329.581	-100.716	-1.195	0.0027	0.2485	-49.0463	10-1	0.7513
11	0	Envelope	Combination	Max	-130.083	-48.901	-0.317	0.0025	-0.1498	-69.836	11-1	0
11	0.7513	Envelope	Combination	Max	-130.128	-48.149	-0.121	0.0025	0.0353	-33.3792	11-1	0.7513
11	1.5026	Envelope	Combination	Max	-130.172	-47.397	0.074	0.0025	0.1144	32.7037	11-1	1.5026
11	0	Envelope	Combination	Min	-145.988	-94.486	-0.399	0.0014	-0.1907	-108.141	11-1	0
11	0.7513	Envelope	Combination	Min	-146.032	-93.734	-0.203	0.0014	0.0147	-37.4361	11-1	0.7513
11	1.5026	Envelope	Combination	Min	-146.076	-92.982	-0.00757	0.0014	0.0324	2.5126	11-1	1.5026
12	0	Envelope	Combination	Max	60.947	-37.678	-0.314	0.0021	-0.1363	-34.1916	12-1	0
12	0.7513	Envelope	Combination	Max	60.903	-36.926	-0.119	0.0021	0.0262	15.1859	12-1	0.7513
12	1.5026	Envelope	Combination	Max	60.859	-36.174	0.077	0.0021	0.1078	67.4478	12-1	1.5026
12	0	Envelope	Combination	Min	-22.301	-70.69	-0.423	0.0011	-0.2333	-37.6409	12-1	0
12	0.7513	Envelope	Combination	Min	-22.345	-69.938	-0.227	0.0011	0.0107	-6.1668	12-1	0.7513
12	1.5026	Envelope	Combination	Min	-22.389	-69.186	-0.032	0.0011	0.0419	21.293	12-1	1.5026
13	0	Envelope	Combination	Max	205.484	-25.792	-0.291	0.0014	-0.1322	18.2254	13-1	0
13	0.7513	Envelope	Combination	Max	205.44	-25.04	-0.095	0.0014	0.0142	52.4182	13-1	0.7513
13	1.5026	Envelope	Combination	Max	205.396	-24.288	0.1	0.0014	0.0609	86.046	13-1	1.5026
13	0	Envelope	Combination	Min	55.304	-45.887	-0.355	0.000801	-0.1793	-5.164	13-1	0
13	0.7513	Envelope	Combination	Min	55.259	-45.135	-0.16	0.000801	0.0128	13.9311	13-1	0.7513
13	1.5026	Envelope	Combination	Min	55.215	-44.383	0.036	0.000801	0.0108	32.4613	13-1	1.5026

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
68	1.5026	Envelope	Combination	Max	281.126	-11.848	-0.019	0.000231	0.0112	87.5302	68-1	1.5026
68	0	Envelope	Combination	Min	99.914	-20.162	-0.02	0.000147	-0.0204	16.3314	68-1	0
68	0.7513	Envelope	Combination	Min	99.87	-19.41	-0.02	0.000147	-0.0063	26.0803	68-1	0.7513
68	1.5026	Envelope	Combination	Min	99.825	-18.658	-0.02	0.000147	0.0077	35.2643	68-1	1.5026
69	0	Envelope	Combination	Max	300.567	3.452	0.01	-7.1E-05	0.0084	81.318	69-1	0
69	0.7513	Envelope	Combination	Max	300.523	4.204	0.01	-7.1E-05	0.0029	78.4422	69-1	0.7513
69	1.5026	Envelope	Combination	Max	300.479	4.956	0.01	-7.1E-05	-0.0026	75.0014	69-1	1.5026
69	0	Envelope	Combination	Min	117.708	-2.102	0.007294	-0.00013	0.0074	29.4929	69-1	0
69	0.7513	Envelope	Combination	Min	117.664	-1.35	0.007294	-0.00013	-0.00048	30.7897	69-1	0.7513
69	1.5026	Envelope	Combination	Min	117.619	-0.598	0.007294	-0.00013	-0.0083	31.5215	69-1	1.5026
70	0	Envelope	Combination	Max	258.813	26.955	0.056	-0.0003	0.0353	88.4706	70-1	0
70	0.7513	Envelope	Combination	Max	258.769	27.707	0.056	-0.0003	-0.0047	67.9368	70-1	0.7513
70	1.5026	Envelope	Combination	Max	258.724	28.459	0.056	-0.0003	-0.0265	46.838	70-1	1.5026
70	0	Envelope	Combination	Min	106.405	9.112	0.029	-0.00052	0.0171	35.1345	70-1	0
70	0.7513	Envelope	Combination	Min	106.361	9.864	0.029	-0.00052	-0.0065	28.0064	70-1	0.7513
70	1.5026	Envelope	Combination	Min	106.316	10.616	0.029	-0.00052	-0.0483	20.3133	70-1	1.5026
71	0	Envelope	Combination	Max	156.881	50.069	0.092	-0.00058	0.07	79.5764	71-1	0
71	0.7513	Envelope	Combination	Max	156.837	50.821	0.092	-0.00058	0.0018	41.6767	71-1	0.7513
71	1.5026	Envelope	Combination	Max	156.793	51.573	0.092	-0.00058	-0.0375	3.212	71-1	1.5026
71	0	Envelope	Combination	Min	66.4	20.162	0.052	-0.001	0.0412	33.1303	71-1	0
71	0.7513	Envelope	Combination	Min	66.355	20.914	0.052	-0.001	0.000928	17.7004	71-1	0.7513
71	1.5026	Envelope	Combination	Min	66.311	21.666	0.052	-0.001	-0.0682	1.7056	71-1	1.5026

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
75	0.7513	Envelope	Combination	Min	100.624	-30.125	-0.092	-0.00037	0.0042	41.6574	75-1	0.7513
75	1.5026	Envelope	Combination	Min	100.668	-29.373	-0.092	-0.00037	-0.0239	61.7656	75-1	1.5026
76	0	Envelope	Combination	Max	180.641	-4.675	0.016	-0.00011	0.0121	82.9972	76-1	0
76	0.7513	Envelope	Combination	Max	180.685	-3.923	0.016	-0.00011	0.003	106.9451	76-1	0.7513
76	1.5026	Envelope	Combination	Max	180.729	-3.171	0.016	-0.00011	-0.0061	130.328	76-1	1.5026
76	0	Envelope	Combination	Min	149.782	-32.251	0.012	-0.00018	-0.0089	48.8346	76-1	0
76	0.7513	Envelope	Combination	Min	149.826	-31.499	0.012	-0.00018	-0.0212	52.0646	76-1	0.7513
76	1.5026	Envelope	Combination	Min	149.87	-30.747	0.012	-0.00018	-0.0335	54.7296	76-1	1.5026
77	0	Envelope	Combination	Max	262.443	18.789	0.165	0.000133	0.1411	102.9183	77-1	0
77	0.7513	Envelope	Combination	Max	262.487	19.541	0.165	0.000133	0.017	128.174	77-1	0.7513
77	1.5026	Envelope	Combination	Max	262.532	20.293	0.165	0.000133	0.0048	152.8648	77-1	1.5026
77	0	Envelope	Combination	Min	130.058	-33.992	-0.00422	-0.0022	-0.0016	61.2315	77-1	0
77	0.7513	Envelope	Combination	Min	130.103	-33.24	-0.00422	-0.0022	0.0016	46.8331	77-1	0.7513
77	1.5026	Envelope	Combination	Min	130.147	-32.488	-0.00422	-0.0022	-0.1071	31.8698	77-1	1.5026
78	0	Envelope	Combination	Max	137.271	134.28	-0.023	0.0023	-0.0135	195.7771	78-1	0
78	0.7513	Envelope	Combination	Max	137.315	135.032	-0.023	0.0023	0.0128	94.6099	78-1	0.7513
78	1.5026	Envelope	Combination	Max	137.36	135.784	-0.023	0.0023	0.0992	-6.6848	78-1	1.5026
78	0	Envelope	Combination	Min	49.854	42.256	-0.115	0.000335	-0.0737	57.9398	78-1	0
78	0.7513	Envelope	Combination	Min	49.898	43.008	-0.115	0.000335	0.0042	25.9099	78-1	0.7513
78	1.5026	Envelope	Combination	Min	49.943	43.76	-0.115	0.000335	0.0218	-7.1223	78-1	1.5026
79	0	Envelope	Combination	Max	-90.438	135.938	0.077	0.000547	0.0547	106.1107	79-1	0
79	0.7513	Envelope	Combination	Max	-90.394	136.69	0.077	0.000547	0.000797	3.698	79-1	0.7513

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
79	1.5026	Envelope	Combination	Max	-90.349	137.442	0.077	0.000547	0.0252	-61.0824	79-1	1.5026
79	0	Envelope	Combination	Min	-213.85	65.802	-0.033	-0.00087	-0.0236	38.9219	79-1	0
79	0.7513	Envelope	Combination	Min	-213.806	66.554	-0.033	-0.00087	-0.0033	-10.7978	79-1	0.7513
79	1.5026	Envelope	Combination	Min	-213.762	67.306	-0.033	-0.00087	-0.0612	-99.2796	79-1	1.5026
80	0	Envelope	Combination	Max	-290.755	146.185	0.065	0.000527	0.0284	18.5946	80-1	0
80	0.7513	Envelope	Combination	Max	-290.711	146.937	0.065	0.000527	-0.0126	-63.9158	80-1	0.7513
80	1.5026	Envelope	Combination	Max	-290.666	147.689	0.065	0.000527	-0.0205	-132.553	80-1	1.5026
80	0	Envelope	Combination	Min	-577.951	90.23	0.01	0.000351	-0.0047	4.1568	80-1	0
80	0.7513	Envelope	Combination	Min	-577.907	90.982	0.01	0.000351	-0.0201	-91.5166	80-1	0.7513
80	1.5026	Envelope	Combination	Min	-577.863	91.734	0.01	0.000351	-0.0686	-202.193	80-1	1.5026
81	0	Envelope	Combination	Max	-478.759	140.281	-0.065	0.000429	-0.0089	-75.9505	81-1	0
81	0.37565	Envelope	Combination	Max	-478.737	140.657	-0.065	0.000429	0.0153	-112.999	81-1	0.37565
81	0.7513	Envelope	Combination	Max	-478.714	141.033	-0.065	0.000429	0.0396	-150.189	81-1	0.7513
81	0	Envelope	Combination	Min	-869.888	98.437	-0.08	-6.5E-05	-0.0276	-114.124	81-1	0
81	0.37565	Envelope	Combination	Min	-869.866	98.813	-0.08	-6.5E-05	0.0025	-166.891	81-1	0.37565
81	0.7513	Envelope	Combination	Min	-869.844	99.189	-0.08	-6.5E-05	0.0327	-219.799	81-1	0.7513
82	0	Envelope	Combination	Max	-222.549	-51.298	-0.081	0.000828	-0.0327	-78.5444	82-1	0
82	0.37565	Envelope	Combination	Max	-222.571	-50.922	-0.081	0.000828	0.000429	-59.3449	82-1	0.37565
82	0.7513	Envelope	Combination	Max	-222.593	-50.546	-0.081	0.000828	0.1377	-40.2867	82-1	0.7513
82	0	Envelope	Combination	Min	-327.829	-98.456	-0.365	-0.00011	-0.1369	-123.63	82-1	0
82	0.37565	Envelope	Combination	Min	-327.852	-98.08	-0.365	-0.00011	-0.0024	-86.7161	82-1	0.37565
82	0.7513	Envelope	Combination	Min	-327.874	-97.704	-0.365	-0.00011	0.028	-49.943	82-1	0.7513

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
86	0.7513	Envelope	Combination	Min	99.04	-19.442	0.009275	-0.00021	0.0034	25.9667	86-1	0.7513
86	1.5026	Envelope	Combination	Min	98.995	-18.69	0.009275	-0.00021	-0.0042	35.1746	86-1	1.5026
87	0	Envelope	Combination	Max	299.904	3.403	0.004268	-3.9E-05	0.0017	81.1726	87-1	0
87	0.7513	Envelope	Combination	Max	299.86	4.155	0.004268	-3.9E-05	0.000841	78.3335	87-1	0.7513
87	1.5026	Envelope	Combination	Max	299.816	4.907	0.004268	-3.9E-05	1.26E-05	74.9295	87-1	1.5026
87	0	Envelope	Combination	Min	117.045	-2.151	0.001103	-0.0001	0.000692	29.3476	87-1	0
87	0.7513	Envelope	Combination	Min	117.001	-1.399	0.001103	-0.0001	-0.0025	30.681	87-1	0.7513
87	1.5026	Envelope	Combination	Min	116.956	-0.647	0.001103	-0.0001	-0.0057	31.4496	87-1	1.5026
88	0	Envelope	Combination	Max	258.353	26.889	0.001367	0.00017	0.0065	88.3317	88-1	0
88	0.7513	Envelope	Combination	Max	258.309	27.641	0.001367	0.00017	0.0073	67.8476	88-1	0.7513
88	1.5026	Envelope	Combination	Max	258.265	28.393	0.001367	0.00017	0.0263	46.7986	88-1	1.5026
88	0	Envelope	Combination	Min	105.945	9.045	-0.025	-4.6E-05	-0.0118	34.9956	88-1	0
88	0.7513	Envelope	Combination	Min	105.901	9.797	-0.025	-4.6E-05	0.0055	27.9173	88-1	0.7513
88	1.5026	Envelope	Combination	Min	105.856	10.549	-0.025	-4.6E-05	0.0044	20.274	88-1	1.5026
89	0	Envelope	Combination	Max	156.636	49.987	-0.0056	0.000557	-0.0056	79.4673	89-1	0
89	0.7513	Envelope	Combination	Max	156.592	50.739	-0.0056	0.000557	-0.00052	41.6292	89-1	0.7513
89	1.5026	Envelope	Combination	Max	156.547	51.491	-0.0056	0.000557	0.0335	3.2262	89-1	1.5026
89	0	Envelope	Combination	Min	66.155	20.08	-0.045	8.73E-05	-0.0345	33.0213	89-1	0
89	0.7513	Envelope	Combination	Min	66.11	20.832	-0.045	8.73E-05	-0.0014	17.653	89-1	0.7513
89	1.5026	Envelope	Combination	Min	66.066	21.584	-0.045	8.73E-05	0.0028	1.7197	89-1	1.5026
90	0	Envelope	Combination	Max	44.192	60.932	0.001073	0.000572	0.000205	36.5497	90-1	0
90	0.40069	Envelope	Combination	Max	44.169	61.333	0.001073	0.000572	-0.00023	12.0544	90-1	0.40069

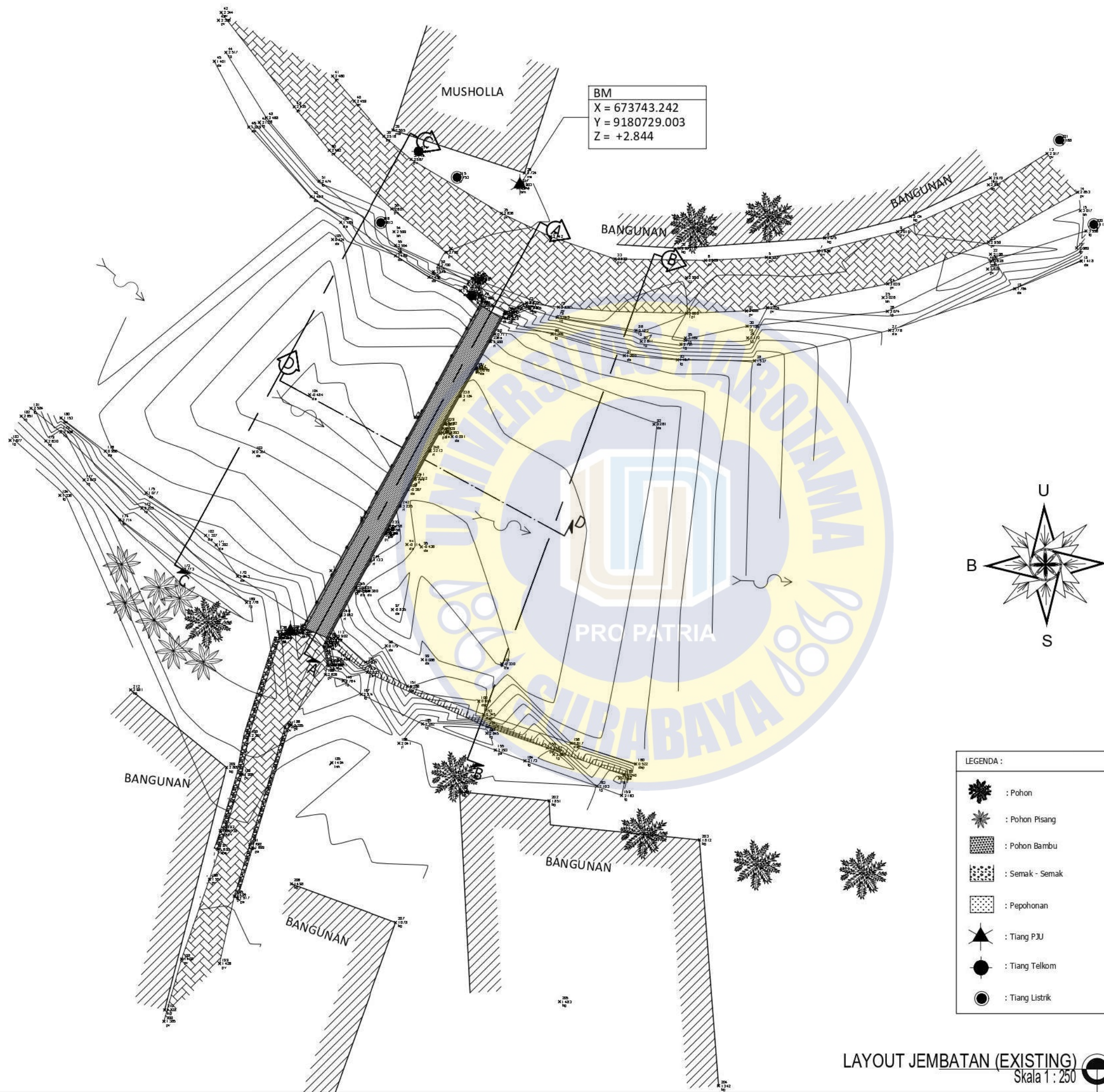
TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
94	0	Envelope	Combination	Max	204.389	-4.721	0.088	-0.00025	0.0579	87.3935	94-1	0
94	0.7513	Envelope	Combination	Max	204.434	-3.969	0.088	-0.00025	0.0087	112.1186	94-1	0.7513
94	1.5026	Envelope	Combination	Max	204.478	-3.217	0.088	-0.00025	-0.0023	136.2788	94-1	1.5026
94	0	Envelope	Combination	Min	155.492	-33.286	0.015	-0.00072	0.0197	49.2404	94-1	0
94	0.7513	Envelope	Combination	Min	155.536	-32.534	0.015	-0.00072	-0.0084	52.5047	94-1	0.7513
94	1.5026	Envelope	Combination	Min	155.581	-31.782	0.015	-0.00072	-0.0747	55.2041	94-1	1.5026
95	0	Envelope	Combination	Max	256.329	19.817	-0.064	0.0119	-0.037	119.1267	95-1	0
95	0.7513	Envelope	Combination	Max	256.374	20.569	-0.064	0.0119	0.0378	124.9133	95-1	0.7513
95	1.5026	Envelope	Combination	Max	256.418	21.321	-0.064	0.0119	0.8231	130.135	95-1	1.5026
95	0	Envelope	Combination	Min	135.254	-8.078	-1.045	0.00052	-0.7476	62.3336	95-1	0
95	0.7513	Envelope	Combination	Min	135.298	-7.326	-1.045	0.00052	0.0109	47.1623	95-1	0.7513
95	1.5026	Envelope	Combination	Min	135.342	-6.574	-1.045	0.00052	0.0587	31.426	95-1	1.5026
96	0	Envelope	Combination	Max	121.344	116.781	0.888	0.0012	0.7076	177.8065	96-1	0
96	0.7513	Envelope	Combination	Max	121.388	117.533	0.888	0.0012	0.0404	89.7862	96-1	0.7513
96	1.5026	Envelope	Combination	Max	121.433	118.285	0.888	0.0012	0.1082	1.2008	96-1	1.5026
96	0	Envelope	Combination	Min	52.884	44.453	-0.133	-0.0107	-0.0914	59.6111	96-1	0
96	0.7513	Envelope	Combination	Min	52.929	45.205	-0.133	-0.0107	0.0084	25.931	96-1	0.7513
96	1.5026	Envelope	Combination	Min	52.973	45.957	-0.133	-0.0107	-0.6268	-8.3141	96-1	1.5026
97	0	Envelope	Combination	Max	-91.88	139.223	-0.074	0.0017	-0.0565	110.9843	97-1	0
97	0.7513	Envelope	Combination	Max	-91.836	139.975	-0.074	0.0017	0.0132	6.1035	97-1	0.7513
97	1.5026	Envelope	Combination	Max	-91.792	140.727	-0.074	0.0017	0.1559	-63.9328	97-1	1.5026
97	0	Envelope	Combination	Min	-204.196	69.14	-0.19	0.000473	-0.1295	41.0874	97-1	0

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
105	0	Envelope	Combination	Max	305.93	3.07	0.017	6.33E-05	0.0207	81.3672	105-1	0
105	0.7513	Envelope	Combination	Max	305.885	3.822	0.017	6.33E-05	0.0108	78.7779	105-1	0.7513
105	1.5026	Envelope	Combination	Max	305.841	4.574	0.017	6.33E-05	0.0104	75.6236	105-1	1.5026
105	0	Envelope	Combination	Min	119.474	-2.42	0.00045	-0.00012	0.0111	29.289	105-1	0
105	0.7513	Envelope	Combination	Min	119.429	-1.668	0.00045	-0.00012	0.0082	30.8245	105-1	0.7513
105	1.5026	Envelope	Combination	Min	119.385	-0.916	0.00045	-0.00012	-0.0042	31.7951	105-1	1.5026
106	0	Envelope	Combination	Max	265.22	27.508	-0.02	0.000791	-0.0126	89.1803	106-1	0
106	0.7513	Envelope	Combination	Max	265.176	28.26	-0.02	0.000791	0.0093	68.2308	106-1	0.7513
106	1.5026	Envelope	Combination	Max	265.131	29.012	-0.02	0.000791	0.0699	46.7163	106-1	1.5026
106	0	Envelope	Combination	Min	108.847	9.238	-0.081	0.000177	-0.0513	35.2663	106-1	0
106	0.7513	Envelope	Combination	Min	108.803	9.99	-0.081	0.000177	0.0027	28.043	106-1	0.7513
106	1.5026	Envelope	Combination	Min	108.759	10.742	-0.081	0.000177	0.018	20.2548	106-1	1.5026
107	0	Envelope	Combination	Max	161.733	52.045	-0.066	0.0019	-0.0401	81.3736	107-1	0
107	0.7513	Envelope	Combination	Max	161.689	52.797	-0.066	0.0019	0.017	41.9897	107-1	0.7513
107	1.5026	Envelope	Combination	Max	161.644	53.549	-0.066	0.0019	0.1628	2.0407	107-1	1.5026
107	0	Envelope	Combination	Min	68.314	20.928	-0.194	0.000651	-0.1289	33.7892	107-1	0
107	0.7513	Envelope	Combination	Min	68.27	21.68	-0.194	0.000651	0.0092	17.7836	107-1	0.7513
107	1.5026	Envelope	Combination	Min	68.225	22.432	-0.194	0.000651	0.0585	1.213	107-1	1.5026
108	0	Envelope	Combination	Max	45.514	66.957	-0.37	0.0037	-0.1391	39.1956	108-1	0
108	0.40069	Envelope	Combination	Max	45.491	67.358	-0.37	0.0037	0.0256	12.2859	108-1	0.40069
108	0.80139	Envelope	Combination	Max	45.467	67.759	-0.37	0.0037	0.4063	-6.3417	108-1	0.80139
108	0	Envelope	Combination	Min	19.544	28.429	-0.95	0.0015	-0.3552	16.7621	108-1	0

TABLE: Element Forces - Frames												
Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T	M2	M3	FrameElem	ElemStation
Text	m	Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m	Text	m
108	0.40069	Envelope	Combination	Min	19.52	28.83	-0.95	0.0015	0.0093	5.2906	108-1	0.40069
108	0.80139	Envelope	Combination	Min	19.496	29.231	-0.95	0.0015	0.1577	-14.7845	108-1	0.80139

Lampiran 26 Tabel gaya dalam ultimit dari gelagar memanjang jembatan rencana

Gaya Dalam Maksimum											
P		V2		V3		T		M2		M3	
Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif	Positif	Negatif
KN	KN	KN	KN	KN	KN	KN-m	KN-m	KN-m	KN-m	KN-m	KN-m
307.854	-870.064	153.849	-200.549	1.257	-1.391	0.013	-0.0129	0.9285	-0.9791	195.7991	-223.706



PEMERINTAH KABUPATEN SIDOARJO
DINAS PU BINA MARGA DAN SUMBER DAYA AIR
Jl. Sultan Agung No. 17 A Telp. 8921942
SIDOARJO - 61211

NAMA KEGIATAN

PENYELENGGARAAN JALAN KABUPATEN / KOTA

NAMA PEKERJAAN

PENINGKATAN JEMBATAN
DSN. SIDOMUKTI RT. 07 RW. 02
DS. KRATON KRIAN - KRATON

LOKASI

KEC. KRIAN

KONSULTAN PERENCANA



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DAN SUMBER DAYA AIR
KABUPATEN SIDOARJO

DWI EKO SAPTONO, S.Sos., MM, MT
NIP. 19700221 199003 1 002

JUDUL GAMBAR

LAYOUT JEMBATAN
(EXISTING)

SKALA

1 : 250

GAMBAR

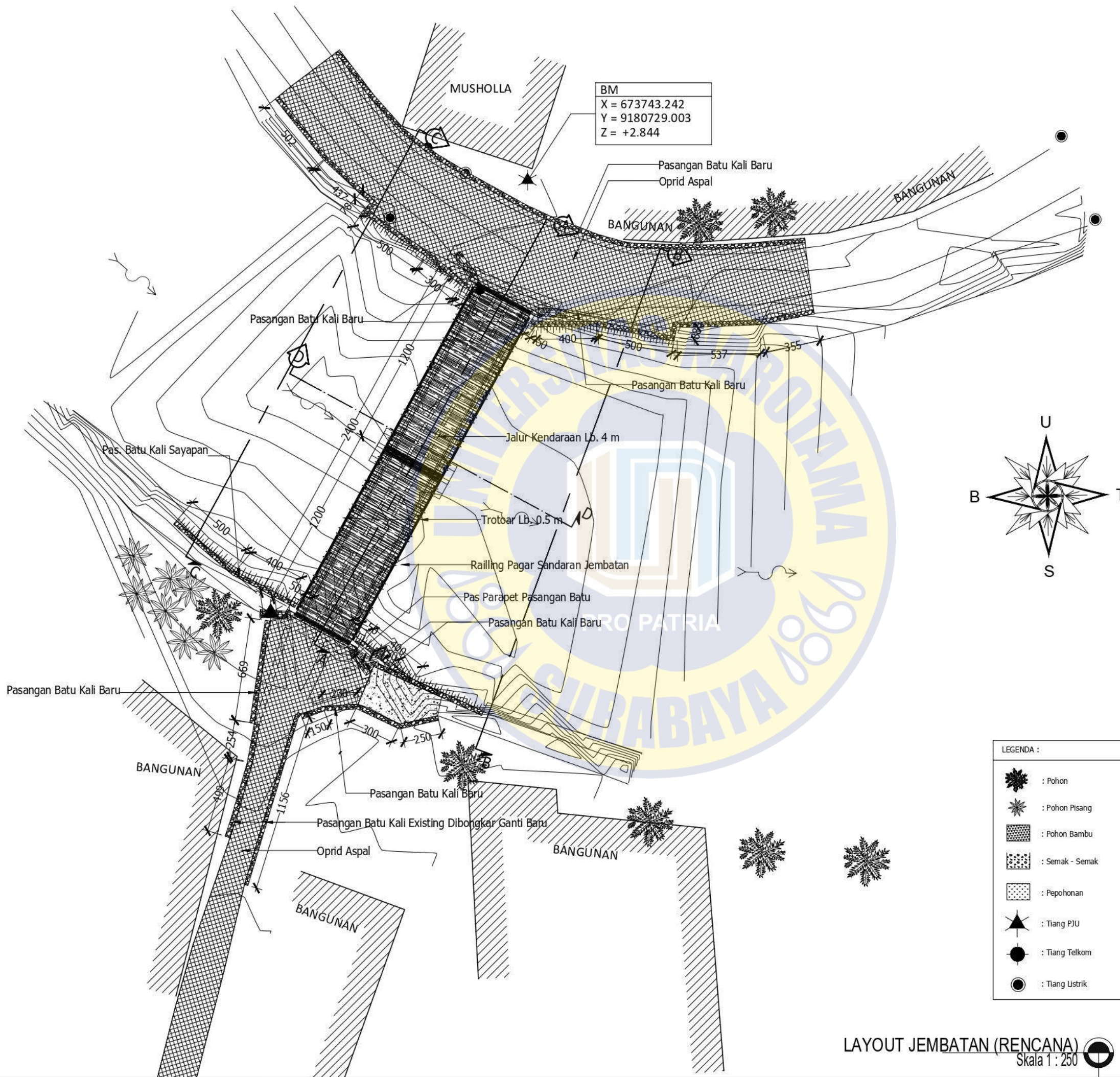
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NO. GBR

02

JML. GBR

39



LAYOUT JEMBATAN (RENCANA)
Skala 1 : 250

 PEMERINTAH KABUPATEN SIDOARJO DINAS PU BINA MARGA DAN SUMBER DAYA AIR Jl. Sultan Agung No. 17 A Telp. 8321942 SIDOARJO-61211		
NAMA KEGIATAN		
PENYELENGGARAAN JALAN KABUPATEN / KOTA		
NAMA PEKERJAAN		
PENINGKATAN JEMBATAN DSN. SIDOMUKTI RT. 07 RW. 02 DS. KRATON KRIAN - KRATON		
LOKASI		
KEC. KRIAN		
KONSULTAN PERENCANA		
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DIRENCANAKAN		
TEAM LEADER		
<u>Ir. KUSWANTORO</u>		
DIPERIKSA		
DIREKTUR		
<u>FEBRI ADITYA, S.T.</u>		
DIPERIKSA & DISETUJUI		
TEAM LEADER CORETEAM		
<u>Ir. ABDUL HARIS, MT.</u>		
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PEJABAT PEMBUAT KOMITMEN		
<u>AHMAD FARID BRILLIANTO, ST., M. Eng</u> NIP. 19750627 200604 1 014		
MENGETAHUI	TANDA TANGAN	
Pt. KEPALA DINAS PU BINA MARGA DAN SUMBER DAYA AIR KABUPATEN SIDOARJO		
<u>DWI EKO SAPTONO, S.Sos., MM , MT</u> NIP. 19700221 199003 1 002		
JUDUL GAMBAR		SKALA
LAYOUT JEMBATAN (RENCANA)		1 : 250
GAMBAR	NO. GBR	JML. GBR
JBT-KT	03	39



PEMERINTAH KABUPATEN SIDOARJO
DINAS PU BINA MARGA DAN SUMBER DAYA AIR
Jl. Sultan Agung No. 17 A Telp. 8921942
SIDOARJO-61211

NAMA KEGIATAN

PENYELENGGARAAN JALAN KABUPATEN / KOTA

NAMA PEKERJAAN

PENINGKATAN JEMBATAN
DSN. SIDOMUKTI RT. 07 RW. 02
DS. KRATON KRIAN - KRATON

LOKASI

KEC. KRIAN

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Pt. KEPALA DINAS PU BINA MARGA
DAN SUMBER DAYA AIR
KABUPATEN SIDOARJO

DWI EKO SAPTONO, S.Sos., MM, MT
NIP. 19700221 199003 1 002

JUDUL GAMBAR

POTONGAN A-A (EXISTING)

POTONGAN A-A (RENCANA)

SKALA

1 : 175

1 : 175

GAMBAR

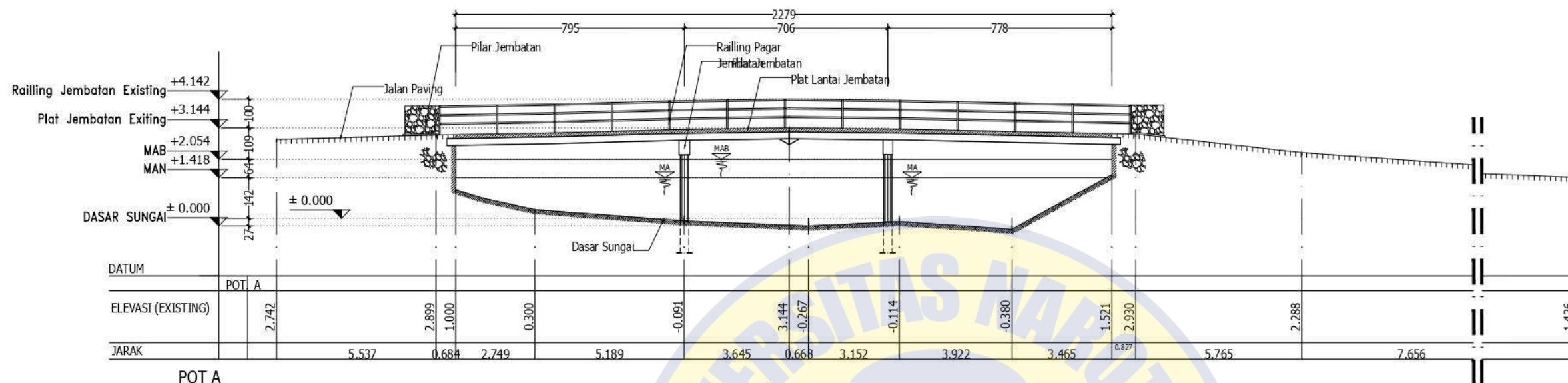
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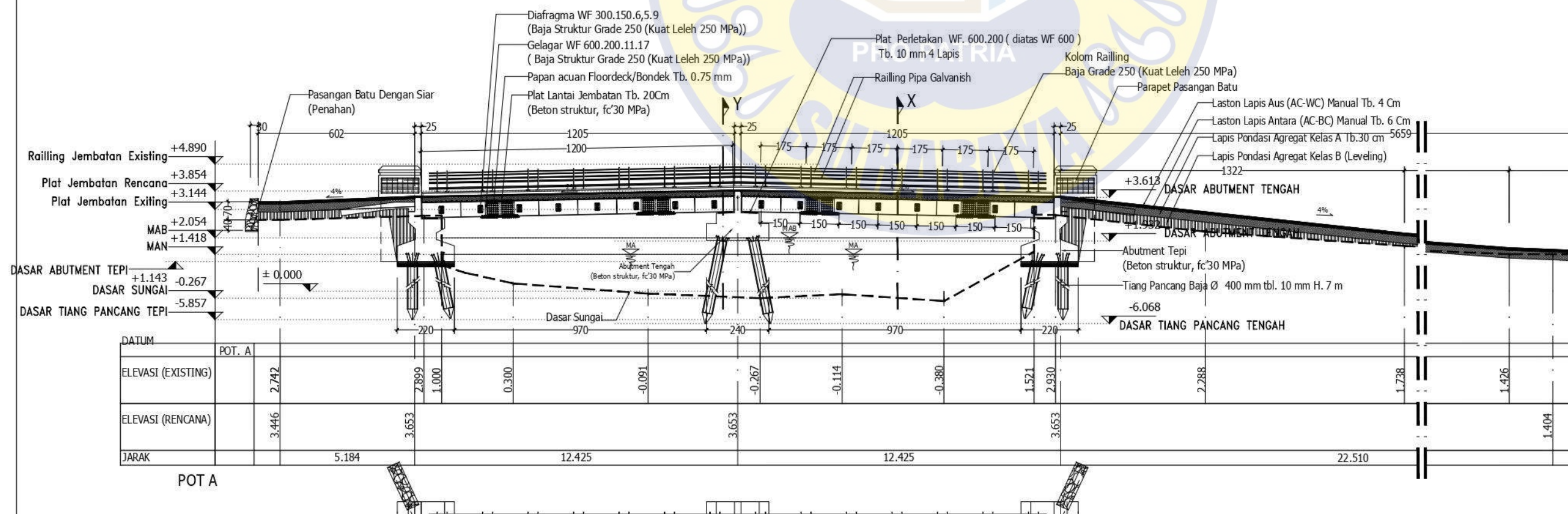
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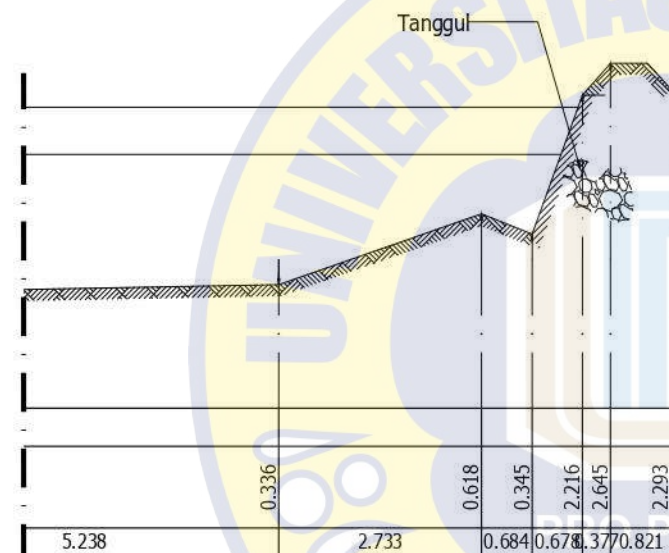
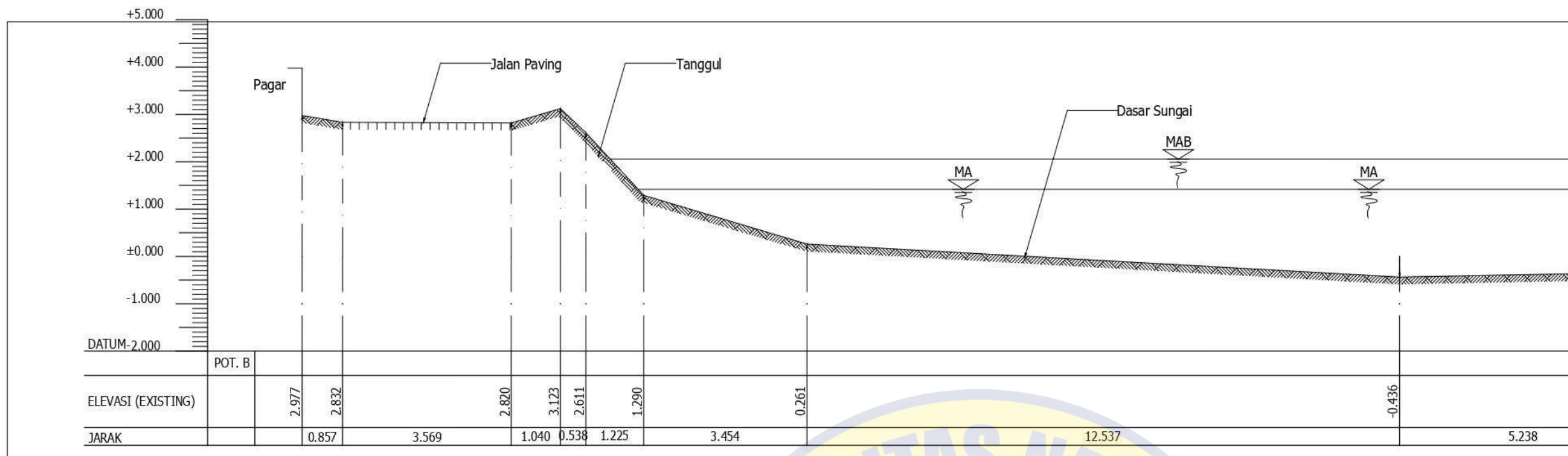
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POTONGAN A-A (EXISTING)
Skala 1 : 175

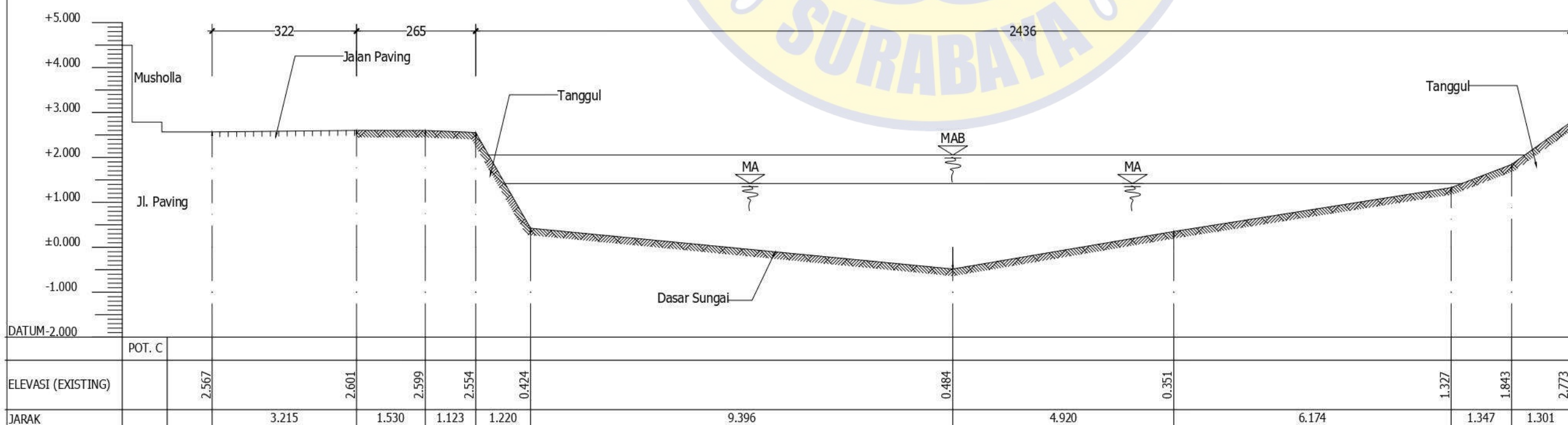


POTONGAN A-A (RENCANA)
Skala 1 : 175



POTONGAN B-B (EXISTING)

Skala 1 : 100



POTONGAN C-C (EXISTING)

Skala 1 : 100

 PEMERINTAH KABUPATEN SIDOARJO DINAS PU BINA MARGA DAN SUMBER DAYA AIR Jl. Sultan Agung No. 17 A Telp. 8321942 SIDOARJO - 61211		
NAMA KEGIATAN		
PENYELENGGARAAN JALAN KABUPATEN / KOTA		
NAMA PEKERJAAN		
PENINGKATAN JEMBATAN DSN. SIDOMUKTI RT. 07 RW. 02 DS. KRATON KRIAN - KRATON		
LOKASI		
KEC. KRIAN		
KONSULTAN PERENCANA		
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DIREKTUR		
FEBRI ADITYA, S.T.		
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TEAM LEADER CORETEAM		
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MENGETAHUI	TANDA TANGAN	
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DWI EKO SAPTONO, S.Sos., MM., MT NIP. 19700221 199003 1 002		
JUDUL GAMBAR	SKALA	
POTONGAN B-B (EXISTING)	1 : 100	
POTONGAN B-B (EXISTING)	1 : 100	
GAMBAR	NO. GBR	JML. GBR
JBT-KT	05	39



PEMERINTAH KABUPATEN SIDOARJO
DINAS PU BINA MARGA DAN SUMBER DAYA AIR
Jl. Sultan Agung No. 17 A Telp. 8321942
SIDOARJO-61211

NAMA KEGIATAN

PENYELENGGARAAN JALAN KABUPATEN / KOTA

NAMA PEKERJAAN

PENINGKATAN JEMBATAN
DSN. SIDOMUKTI RT. 07 RW. 02
DS. KRATON KRIAN - KRATON

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DAN SUMBER DAYA AIR
KABUPATEN SIDOARJO

DWI EKO SAPTONO, S.Sos., MM, MT
NIP. 19700221 199003 1 002

JUDUL GAMBAR

POTONGAN D-D (EXISTING)

POTONGAN D-D (RENCANA)

SKALA

1 : 100

1 : 100

GAMBAR

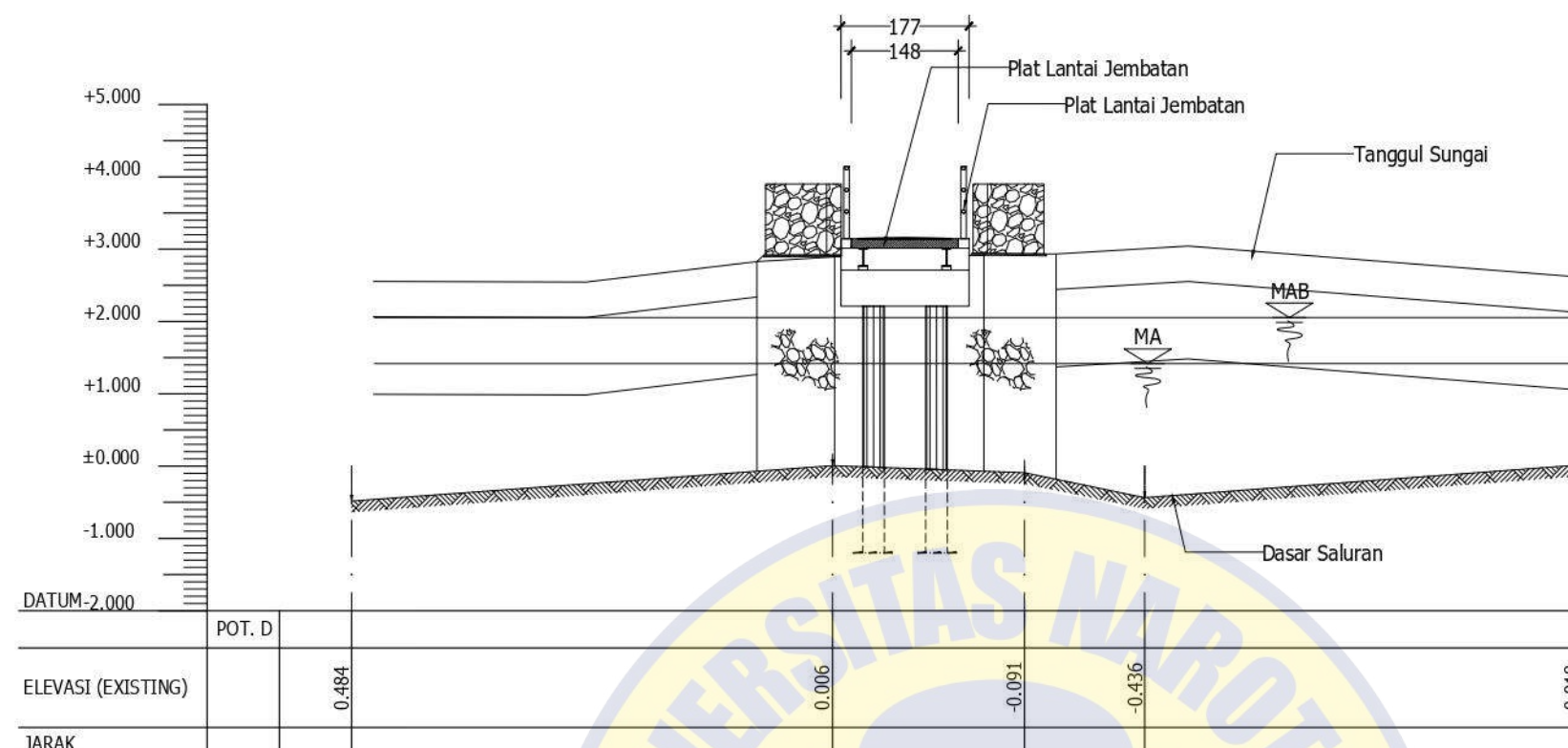
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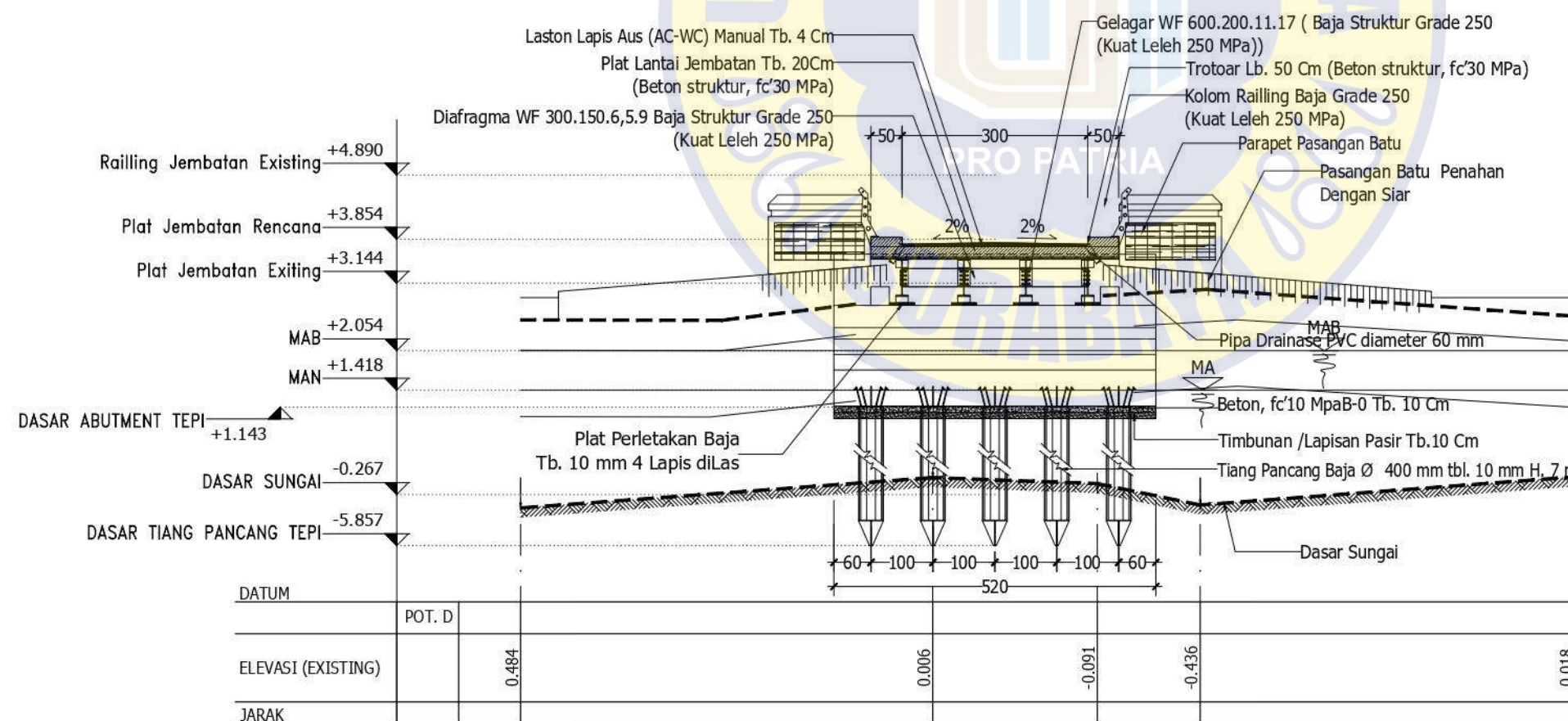
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JML. GBR

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POTONGAN D-D (EXISTING)
Skala 1 : 100



POT A

POTONGAN D-D (RENCANA)
Skala 1 : 100



PEMERINTAH KABUPATEN SIDOARJO
DINAS PU BINA MARGA DAN SUMBER DAYA AIR
Jl. Sultan Agung No. 17 A Telp. 8321942
SIDOARJO-61211

NAMA KEGIATAN

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PENINGKATAN JEMBATAN
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TEAM LEADER CORETEAM

Ir. ABDUL HARIS, MT.

MENGETAHUI

PEJABAT PEMBUAT KOMITMEN

AHMAD FARID BRILLIANTO, ST., M. Eng
NIP. 19750627 200604 1 014

MENGETAHUI

Pt. KEPALA DINAS PU BINA MARGA
DAN SUMBER DAYA AIR
KABUPATEN SIDOARJO

DWI EKO SAPTONO, S.Sos., MM, MT
NIP. 19700221 199003 1 002

JUDUL GAMBAR

DENAH JEMBATAN
(RENCANA)

DENAH GELAGAR DAN
DIAFRAGMA

SKALA

1 : 100

1 : 100

GAMBAR

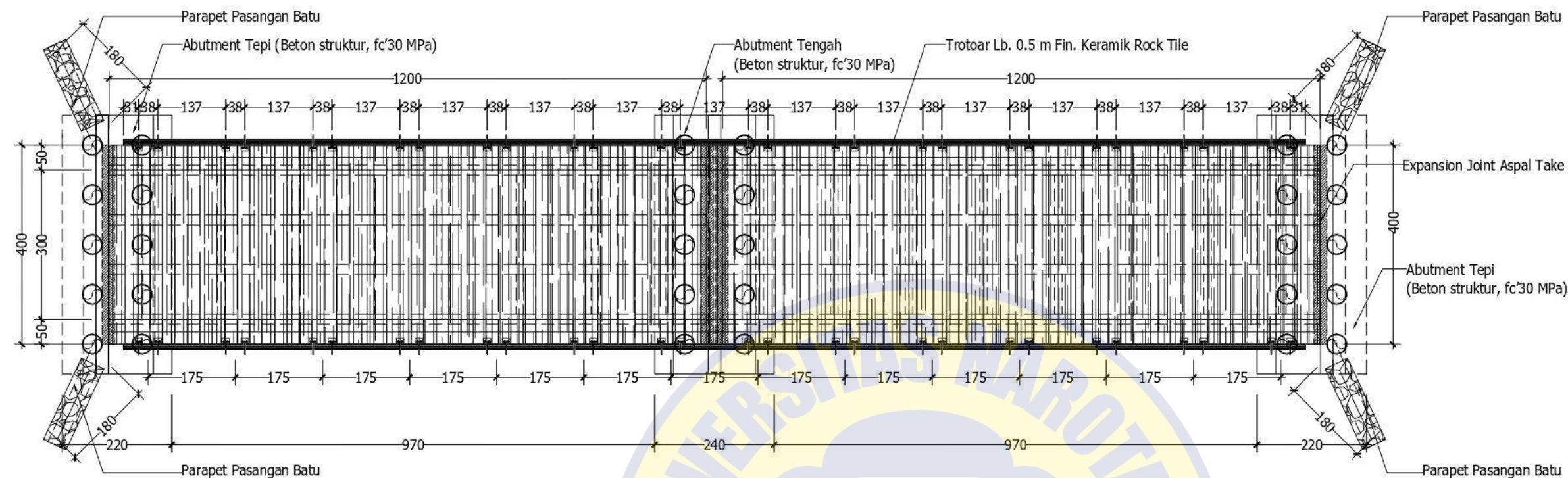
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NO. GBR

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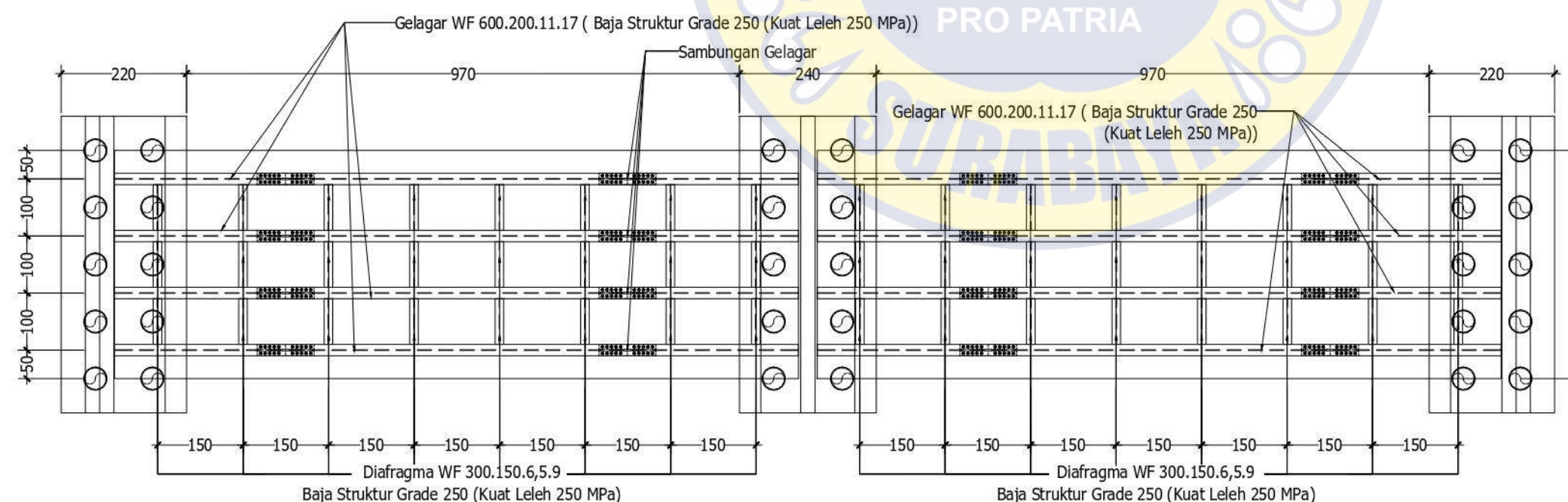
JML. GBR

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DENAH JEMBATAN (RENCANA)

Skala 1 : 100



DENAH GELAGAR DAN DIAFRAGMA

Skala 1 : 100

TABEL KEBUTUHAN BAJA WF	
4 Batang 12 m Jadi	= 8 Batang 6 m
4 Batang 12 m Jadi	= 16 Batang 3 m