

## DAFTAR HARGA DASAR SATUAN BAHAN

No.	URAIAN	KODE	SATUAN	HARGA SATUAN (Rp.)	KETERANGAN
1	Pasir Pasang (Sedang)				
2	Pasir kasar	M01b	M3		
3	Pasir Halus	M01a	M3	163.350,00	Base Camp
4	Pasir Urug (ada unsur lempung)	M01c	M3	163.350,00	Base Camp
5	Batu Kali	M01d	M3	163.350,00	Base Camp
6	Batu Karang	M02	M3	215.000,00	Base Camp
7	Agregat Pecah Kasar	M02a	M3	290.000,00	Lokasi Pekerjaan
8	Agg. Halus	M03	M3	176.400,00	Lokasi Pekerjaan
9	Agregat Pecah mesin (5-10 & 10-20)		M3	380.978,23	Base Camp
10	Agregat Pecah mesin (20 - 30)		M3	360.043,76	Base Camp
11	Agregat Pecah mesin (0 - 5)		M3	422.427,34	Base Camp
12	Agregat Pecah mesin (5-10 & 10-15)		M3	360.043,76	Base Camp
13	Agregat Pecah mesin (9.5 - 19,0)		M3	422.427,34	Base Camp
14	Filler		M3	422.427,34	Base Camp
15	Batu Belah / Kerakal	M05	Kg	360.253,67	Base Camp
16	Gravel	M06	M3	2.300,00	Proses/Base Car
17	Bahan Tanah Timbunan	M07	M3	334.535,00	Lokasi Pekerjaan
18	Bahan Pilihan	M08	M3	350.000,00	Base Camp
19	Aspal	M09	M3	110.250,00	Borrow Pit/quarry
20	Kerosen / Minyak Tanah	M10	KG	96.600,00	Quarry
21	Semen / PC (50kg)	M11	LITER	12.900,00	Base Camp
22	Semen / PC (kg)	M12	Zak	11.956,70	Base Camp
23	Besi Beton	M12a	Kg	88.200,00	Base Camp
24	Kawat Beton	M13	Kg	1.764,00	Base Camp
25	Kawat Bronjong	M14	Kg	14.000,00	Lokasi Pekerjaan
26	Sirtu	M15	Kg	27.200,00	Lokasi Pekerjaan
27	Cat Marka (Non Thermoplas)	M16	M3	25.500,00	Lokasi Pekerjaan
28	Cat Marka (Thermoplastic)	M17a	Kg	298.060,00	Lokasi Pekerjaan
29	Paku	M17b	Kg	43.125,00	Lokasi Pekerjaan
30	Kayu Perancah	M18	Kg	50.600,00	Lokasi Pekerjaan
31	Bensin	M19	M3	24.650,00	Lokasi Pekerjaan
32	Solar	M20	LITER	2.625.500,00	Lokasi Pekerjaan
33	Minyak Pelumas / Olie	M21	LITER	8.363,80	Pertamina
34	Plastik Filter	M22	LITER	7.657,00	Pertamina
35	Pipa Galvanis Dia. 1.6"	M23	M2	32.200,00	Lokasi Pekerjaan
36	Pipa Porus	M24	Batang	20.125,00	Lokasi Pekerjaan
37	Agr.Base Kelas A	M25	M'	20.125,00	Lokasi Pekerjaan
38	Agr.Base Kelas B	M26	M3	154.000,00	Base Camp
39	Agr.Base Kelas C	M27	M3	438.395,06	Base Camp
41	Geotextile	M28	M3	452.748,49	Base Camp
42	Aspal Emulsi	M30	M2	387.159,94	Lokasi Pekerjaan
43	Gebalan Rumput	M31	Kg	37.376,00	Base Camp
44	Thinner	M32	M2	14.850,00	Lokasi Pekerjaan
45	Glass Bead	M33	LITER	5.750,00	Lokasi Pekerjaan
46	Pelat Rambu (Eng. Grade)	M34	Kg	35.420,00	Lokasi Pekerjaan
47	Pelat Rambu (High I. Grade)	M35a	BH	63.250,00	Lokasi Pekerjaan
48	Rel Pengaman	M35b	BH	218.500,00	Lokasi Pekerjaan
49	Beton K-250	M36	M'	287.500,00	Lokasi Pekerjaan
50	Baja Tulangan (Polos) U24	M37	M3	517.500,00	Lokasi Pekerjaan
51	Baja Tulangan (Ulir) D32	M39a	Kg	2.095.479,76	Lokasi Pekerjaan
52	Kapur	M39b	Kg	16.000,00	Lokasi Pekerjaan
		M40	M3	16.500,00	Hasil Proses

63	Chipping	M41	M3		
64	Chipping (kg)	M41kg	Kg		
65	Cat besi	M42	Kg	421.625,00	Base Camp
66	Pemantul Cahaya (Reflector)	M43	Bh.	230,00	Base Camp
67	Pasir Urug	M44	M3	60.000,00	Base Camp
68	Arbocell	M45	Kg.	17.825,00	Base Camp
69	Baja Bergelombang	M46	Kg.	215.000,00	Base Camp
60	Beton K-125	M47	Kg	51.750,00	Base Camp
61	Baja Struktur	M48	M3	23.000,00	Lokasi Pekerjaan
62	Tiang Pancang Baja	M49	Kg	1.344.676,84	Lokasi Pekerjaan
63	Tiang Pancang Beton Pratekan	M50	M'	46.575,00	Pelabuhan terdek
64	Kawat Las	M51	M3	46.000,00	Lokasi Pekerjaan
65	Besi Profil	M52	Dos	517.500,00	Pelabuhan terdek
66	Minyak Fluks	M53	Kg	46.000,00	Lokasi Pekerjaan
67	Bunker Oil	M54	Liter	46.575,00	Pelabuhan terdek
68	Asbuton Halus	M55	Liter	8.625,00	Base Camp
69	Baja Prategang	M56	Ton	5.750,00	Base Camp
70	Baja Tulangan (Polos) U32	M56	Kg	455.400,00	Base Camp
71	Baja Tulangan (Ulir) D39	M57a	Kg	14.375,00	Base Camp
72	Baja Tulangan (Ulir) D48	M39c	Kg	16.000,00	Lokasi Pekerjaan
73	PCI Girder L=17m	M39d	Kg	16.500,00	Lokasi Pekerjaan
74	PCI Girder L=21m	M58a	Buah	16.500,00	Lokasi Pekerjaan
75	PCI Girder L=26m	M58b	Buah	112.125.000	Pelabuhan terdek
76	PCI Girder L=32m	M58c	Buah	126.500.000	Pelabuhan terdek
77	PCI Girder L=36m	M58d	Buah	167.325.000	Pelabuhan terdek
78	PCI Girder L=41m	M58e	Buah	2.017.000.000	Pelabuhan terdek
79	Beton K-300	M58f	Buah	218.500.000	Pelabuhan terdek
80	Beton K-175	M59	M3	253.000.000	Pelabuhan terdek
81	Cerucuk	M60	M3	2.142.544,29	Lokasi Pekerjaan
82	Elastomer	M61	M	1.431.620,39	Lokasi Pekerjaan
83	Bahan pengawet: kreosot	M62	buah	18.000,00	
84	Mata Kucing	M63	liter	543.375,00	
85	Anchorage	M64	buah	6.450,00	
86	Anti strpping agent	M65	buah	95.450,00	
87	Bahan Modifikasi	M66	Kg	862.500	
88	Beton K-500	M67	Kg	59.800,00	
89	Beton K-400	M68	M3	93.150,00	
90	Ducting (Kabel prestress)	M69	M3	3.194.551,07	
91	Ducting (Strand prestress)	M70	M'	3.023.941,74	
92	Beton K-350	M71	M'	201.250,00	
93	Multipleks 12 mm	M72	M3	69.000,00	
94	Elastomer jenis 1	M73	Lbr	2.946.508,55	
95	Elastomer jenis 2	M74a	buah	235.750,00	Base Camp
96	Elastomer jenis 3	M74b	buah	543.375,00	Base Camp
97	Expansion Tipe Joint Asphaltic Plug	M74c	buah	784.875,00	Base Camp
98	Expansion Join Tipe Rubber	M75d	M	1.164.375,00	Base Camp
99	Expansion Join Baja Siku	M75e	M	1.276.500,00	Base Camp
100	Marmer	M75f	M	1.610.000,00	Base Camp
101	Kerb Type A	M76	Buah	368.000,00	Base Camp
102	Paving Block	M77	Buah	400.000,00	Base Camp
103	Mini Timber Pile	M78	Buah	59.800,00	Base Camp
104	Expansion Joint Tipe Torma	M79	Buah	52.550,00	Lokasi Pekerjaan
105	Strip Bearing	M80	M1	34.500,00	Lokasi Pekerjaan
106	Joint Socket Pile 35x35	M81	Buah	1.610.000,00	Lokasi Pekerjaan
107	Joint Socket Pile 16x16x16	M82	Set	293.250,00	Lokasi Pekerjaan
108	Mikro Pile 16x16x16	M83	Set	782.000,00	Lokasi Pekerjaan
109	Matras Concrete	M84	M1	207.000,00	Lokasi Pekerjaan
110	Assetiline	M85	Buah	77.050,00	Lokasi Pekerjaan
111	Oxygen	M86	Botol	529.000,00	Lokasi Pekerjaan
112	Batu Bara	M87	Botol	316.250,00	Lokasi Pekerjaan
113	Pipa Galvanis Dia 3"	M88	Kg	149.500,00	Lokasi Pekerjaan
114	Pipa Galvanis Dia 1,5"	M24a	M	850,00	Lokasi Pekerjaan
		M24b	M	100.625,00	
				43.125,00	

118	Joint Sealent				
119	Cat Anti Karat	M94	Kg		
120	Expansion Cap	M95	Kg		
121	Polytene 125 mikron	M96	Kg	41.975,00	
122	Curing Compound	M97	M2	35.650,00	
123	Kayu Acuan	M98	Kg	7.750,00	
124	Additive	M99	Ltr	24.150,00	
125	Casing	M67a	M3	48.300,00	
126	Pasir Tailing	M100	Ltr	2.625.500,00	
127	Polimer		M2	48.300,00	
128	Batubara		M3	11.500,00	
129	Kerb jenis 1			259.000,00	Base Camp
130	Kerb jenis 2		kg	45.000,00	Base Camp
131	Kerb jenis 3		Buah	850,00	Base Camp
132	Bahan Modifikasi		Buah	59.800,00	
133	Aditif anti pengelupasan		Buah	50.000,00	
134	Bahan Pengisi (Filler) Tambahan		Kg	55.000,00	
135	Asbuton yang diproses		Kg	93.150,00	
136	Elastomer Alam		Kg	59.800,00	
137	Elastomer Sintesis		Kg	1.650,00	
138	Anchorage		Kg	30.000,00	
139	-hidup		Kg	30.000,00	
140	-mati			30.000,00	
143	-Baja Prategang		bh	862.500,00	
151	Epoxy Bahan Penutup (sealant)		bh	750.000,00	
150	Pelat Baja		Kg	400.000,00	
183	Aspal Modifikasi		Kg	14.375,00	
184	Mortar		Kg	41.975,00	
185	Cat mini		kg	15.000,00	
186	Amplas		M3	8.000,00	
187	Dempul		Kg	500.000,00	
188	Shear Connector		Lbr	42.000,00	
189	Pasangan Sling Utama dia 1,5 "		Kg	10.000,00	
190	Pasangan Rol Seling 1,5 "		Kg	52.000,00	
191	Pasangan Seling u/ Railing dia 0,5 "		M'	15.000,00	
192	Pasangan Seling pengaku dia 1 "		Set	200.000,00	
193	Pasang Klem penggantung + Pengaku		M'	1.500.000,00	
194	Pasang Klem u/ Railing 3/4 "		Set	35.000,00	
195	Pasang Klem ( Kuku Macan ) Seling dia 1,5 "		M'	100.000,00	
196	Pasang Klem ( Kuku Macan ) Seling dia 1 "		Set	120.000,00	
197	Baut 5/8 "		Bh	40.000,00	
198	Baja Padat dia 2"		Bh	385.000,00	
199	Mengelas		Bh	125.000,00	
200	Pile Beton		Kg	4.000,00	
			M'	15.000,00	
				5.000,00	
				231.000,00	

DAFTAR BIAYA SEWA PERALATAN PER JAM KERJA

No.	URAIAN	KO DE	HP	KAP.	HARGA ALAT	BIAYA SEWA ALAT/HR (di luar PPH)	KET.
1	ASPHALT MIXING PLANT	E01	250.0	80.0 T/Jam			
2	ASPHALT FINISHER	E02	70.0	40.0 Ton	3.450.000.000	7.820.841,27	
3	ASPHALT SPRAYER	E03	4.0	850.0 Liter	2.332.890.000	713.231,88	
4	BULLDOZER 100-150 HP	E04	180.0	-	82.248.000	84.932,49	
5	COMPRESSOR 4000-8500 L/M	E05	85.0	5.000,0 (CPM/L/hr)	952.200.000	522.478,28	
6	CRANE 75-15 TON	E07	150.0	900.0 Liter	198.280.000	222.222,22	
7	DUMP TRUCK 8.5 TON	E08	115.0	15.0 Ton	195.870.000	137.268,99	
8	DUMP TRUCK 30 TON	E08	180.0	6.0 Ton	1.574.304.000	784.823,60	
9	EXCAVATOR 80-140 HP	E10	120.0	10.0 Ton	320.000.000	314.065,74	
10	FLAT BED TRUCK 8-4 M3	E11	120.0	0.9 M3	380.880.000	631.148,06	
11	GENERATOR SET	E12	180.0	135.0 KVA	680.300.000	689.091,87	
12	MOTOR GRADER >100 HP	E13	180.0	10.800.0	277.400.000	311.052,40	
13	TRACK LOADER 75-100 HP	E14	80.0	0.8 M3	218.808.000	478.498,78	
14	WHEEL LOADER 1.8-1.6 M3	E15	120.0	1.5 M3	735.308.000	468.813,22	
15	THREE WHEEL ROLLER 5-8 T	E16	80.0	1.5 M3	573.438.000	322.539,81	
16	TANDUM ROLLER 6-8 T.	E17	85.0	8.0 Ton	620.712.000	385.757,78	
17	TIRE ROLLER 5-8 T.	E18	125.0	8.1 Ton	378.264.000	232.825,25	
18	VIBRATORY ROLLER 5-8 T.	E18	80.0	8.0 Ton	1.294.758.000	518.709,60	
19	CONCRETE VIBRATOR	E20	4.0	25.0 -	822.300.000	474.468,88	
20	STONE CRUSHER	E21	280.0	50.0 T/Jam	872.871.175	447.855,01	
21	WATER PUMP 70-100 mm	E22	4.0	-	4.232.000	40.145,44	
22	WATER TANKER 3000-4500 L	E23	125.0	4.000,0 Liter	1.200.827.807,2	818.034,10	
23	PEDESTRIAN ROLLER	E24	8.8	635,00 Ton	6.250.000	37.172,85	
24	TAMPER	E25	4.0	121,00 Ton	111.000.000	274.628,40	
25	JACK HAMMER	E26	0.0	1.320,00 -	158.709.000	82.486,49	
26	FULM MGR	E27	245.0	2.005,30 -	17.988.000	47.335,73	
27	CONCRETE PUMP	E28	125.0	8.00 M3	37.000.000	32.871,47	
28	TRAILER 20 TON	E29	280.0	20,00 Ton	652.300.000	1.075.287,85	
29	PILE DRIVER + HAMMER	E30	30.0	2,50 Ton	634.800.000	274.302,87	
30	CRANE ON TRACK 75 TON	E31	145.0	35,0 Ton	825.720.000	817.898,84	
31	WELDING SET	E32	40.0	250,0 Amp	808.300.000	504.882,89	
32	BORE PILE MACHINE	E33	180.0	2.000,0 Meter	16.515.000	198.215,54	
33	ASPHALT LIQUID MIXER	E34	4.0	1.000,0 Liter	2.380.980.000	884.885,41	
34	TROMFON	E35	150.0	15,0 Ton	15.870.000	40.868,94	
35	COLD MILLING	E37	315.0	1.000,0 m	478.100.000	535.835,14	
36	ROCK DRILL BREAKER	E36	0.0	-	5.231.810.000	1.858.449,85	
37	COLD RECYCLER	E38	850.0	2.200,0 M	952.200.000	534.741,29	
38	HOT RECYCLER	E39	610.0	3,0 M	20.831.000.000	7.120.881,95	
39	AGGREGAT (2-8") SPREADER	E40	150.0	1,5 M	30.248.500.000	8.455.480,83	
40	ASPHALT DISTRIBUTOR	E41	140.0	4.000,0 Liter	417.910.000	672.474,09	
41	SLIP FORM PAVER	E42	130.0	2,5 M	425.000.000	498.587,10	
42	CONCRETE PAVI MIXER	E43	180.0	600,0 Liter	1.414.987.143	881.842,31	
43	CONCRETE BREAKER	E44	570.0	20.0 m3/jam	1.590.000.000	734.316,82	
44	ASPHALT TANKER	E45	250.0	4.000,0 liter	832.300.000	1.325.381,40	
45	CEMENT TANKER	E46	240.0	4.000,0 liter	638.000.000	610.224,85	
46	CONCRETE MIXER (350)	E47	20.0	250,0 liter	528.000.000	522.398,45	
47	VIBRATING RAMMER	E48	3.0	80,0 KG	37.030.000	77.888,26	
48	TRUK MIXER (AGITATOR)	E49	280.0	5,0 M3	21.180.000	47.081,82	
49	BORE PILE MACHINE	E50	180.0	90,0 CM	800.000.000	704.889,80	
50	CRANE ON TRACK 75-100 TON	E51	200.0	75,0 Ton	1.237.860.000	770.581,87	
51	BUSHING EQUIPMENT	E52	30.0	30,0 Ton	862.200.000	882.544,72	
52	ASPHALT LIQUID MIXER	E34a	44.0	20.000,0 Liter	528.000.000	289.585,63	
53	BAR BENDER	E53	3.0	0,0 0	15.870.000	118.722,91	
54	BAR CUTTER	E54	3.0	0,0 0	100	35.343,89	
55	BREAKER	E35	80.0	3,0 m3/jam	100	35.343,89	
56	GROUTING PUMP	E56	100.0	15,0 Ton	100	198.907,22	
57	JACK HYDROLIC	E57	3.0	150,0 Ton	100	201.384,82	
58	MESH LAS	E58	3.0	0,2 Ton	100	34.171,54	
59	PILE DRIVER LEADER, 75 mm	E59	70.0	75,0 mm	100	35.343,72	
60	PILE HAMMER	E60	10.0	0,0 0	100	148.888,81	
61	PILE HAMMER, 2.5 Ton	E61	1.0	2,5 Ton	100	80.146,58	
62	STRESSING JACK	E62	88.0	15,0 Ton	100	30.723,86	
63	WELDING MACHINE, 300 A	E63	5.0	6,0 0	100	182.427,78	
64	ALAT BANTU	-	-	-	100	37.819,20	
65	CHANGSAW	-	-	-	-	1.000,00	
66	BABY ROLLER 1-1.5 T	E64	27.0	1,5 Ton	200.000.000	44.484,88	
67						123.842,88	

## HARGA DASAR SATUAN UPAH WILAYAH III

2016

No.	URAIAN	KODE	BATUAN	HARGA YANG DIGUNAKAN (Rp.)	HARGA BATUAN (Rp.)
1.	Pekerja				
2.	Tukang	L01	Jam		
3.	Mandor	L02	Jam	12.000,00	
4.	Operator	L03	Jam	15.000,00	31.725,20
5.	Pembantu Operator	L04	Jam	17.000,00	41.745,00
6.	Sopir / Driver	L05	Jam	17.000,00	50.094,00
7.	Pembantu Sopir / Driver	L06	Jam	12.000,00	28.380,00
8.	Mekanik	L07	Jam	17.000,00	25.090,00
9.	Pembantu Mekanik	L08	Jam	12.000,00	46.200,00
10.	Kepala Tukang	L09	Jam	15.000,00	30.360,00
11.		L10	Jam	12.000,00	27.500,00
12.				17.000,00	20.000,00
13.					35.000,00
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### DATA SONDIR

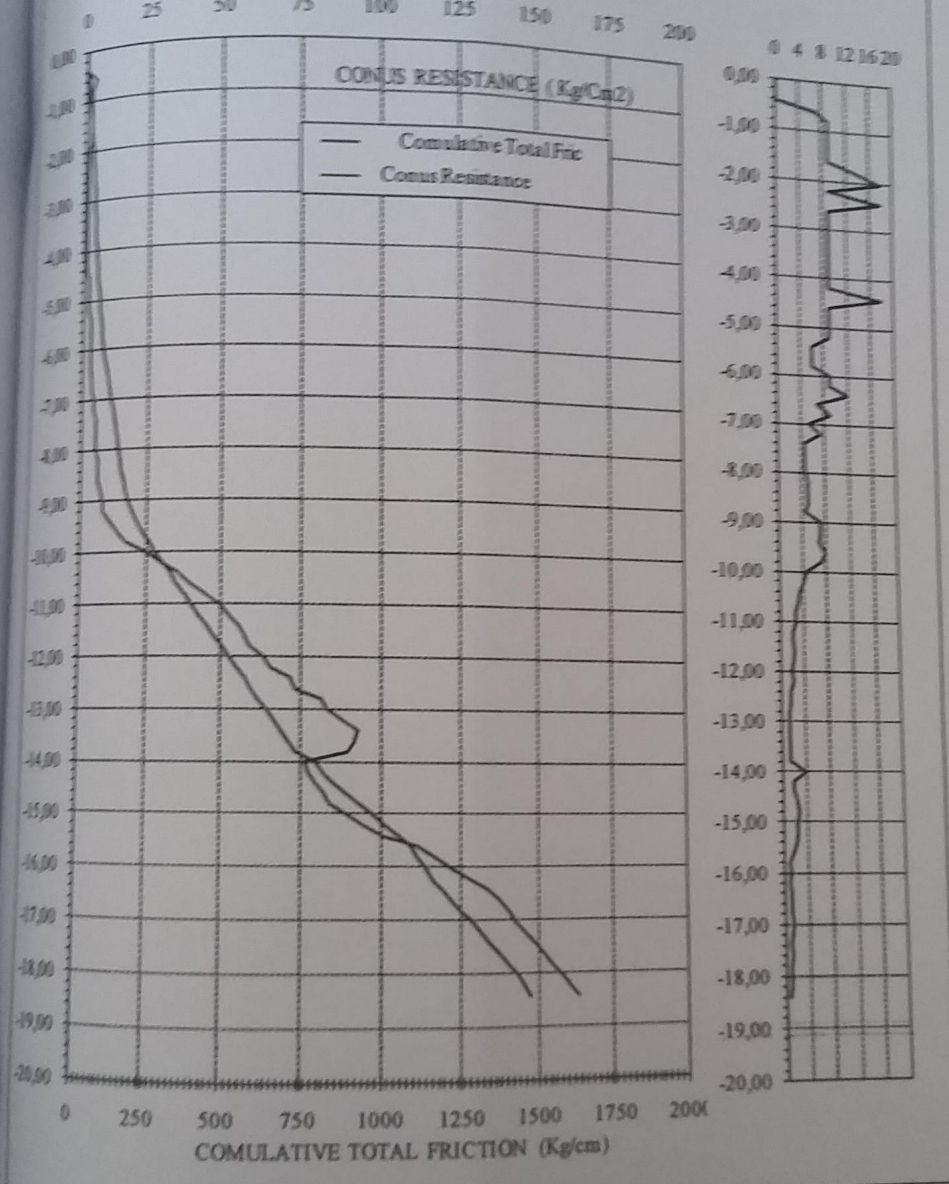
No. Titik : **S. 01**  
 Lokasi : **Sematang Barong, Keaton - Palendang**  
 Pekerjaan : **Pemantauan Teknik Jambatan Air Kempong Mukti Jaya Di Keaton Laut Tanggal : Juli 2013**  
 Dibuat oleh : **SD Tendanan**

Depth (m)	Penyelesaian Haversine (Kg/cm <sup>2</sup> )		Tahanan (Kg/cm <sup>2</sup> )		Local Friction (kg/cm)	Corrosion Total Fris (kg/cm)	Ratio $f_s/f_c$ (%)
	H1	H2	Corros	Frisal			
0,00							
20							
40							
60	4	7	3,07	0,26	5,22	5,22	
80	2	4	1,93	0,17	3,40	8,70	6,75
1,00	2	4	1,93	0,17	3,40	12,10	9,00
20	2	4	1,93	0,17	3,40	15,66	9,00
40	2	4	1,93	0,17	3,40	19,15	9,00
60	2	4	1,93	0,17	3,40	22,63	9,00
80	2	5	1,93	0,26	5,22	27,85	13,50
2,00	1	3	0,97	0,17	3,40	31,23	18,00
20	1	2	0,97	0,09	1,74	33,07	9,00
40	1	3	0,97	0,17	3,40	36,55	18,00
60	1	2	0,97	0,09	1,74	38,29	9,00
80	1	2	0,97	0,09	1,74	40,03	9,00
3,00	1	2	0,97	0,09	1,74	41,77	9,00
20	1	2	0,97	0,09	1,74	43,51	9,00
40	1	2	0,97	0,09	1,74	45,25	9,00
60	1	2	0,97	0,09	1,74	46,99	9,00
80	1	2	0,97	0,09	1,74	48,73	9,00
4,00	1	2	0,97	0,09	1,74	50,47	9,00
20	1	2	0,97	0,09	1,74	52,22	9,00
40	1	3	0,97	0,17	3,40	55,70	18,00
60	2	4	1,93	0,17	3,40	59,18	9,00
80	2	4	1,93	0,17	3,40	62,66	9,00
5,00	2	4	1,93	0,17	3,40	66,14	9,00
20	2	4	1,93	0,17	3,40	69,62	9,00
40	3	5	2,90	0,17	3,40	73,10	6,00
60	3	5	2,90	0,17	3,40	76,58	6,00
80	3	5	2,90	0,17	3,40	80,06	6,00
6,00	3	6	2,90	0,26	5,22	83,54	9,00
20	3	6	2,90	0,26	5,22	87,02	9,00
40	3	7	2,90	0,35	6,96	90,50	12,00
60	4	7	3,87	0,26	5,22	93,98	6,75
80	4	8	3,87	0,35	6,96	97,46	9,00
7,00	5	8	4,83	0,26	5,22	100,94	5,40
20	5	9	4,83	0,35	6,96	104,42	7,20
40	6	9	5,80	0,26	5,22	107,90	4,50
60	6	9	5,80	0,26	5,22	111,38	4,50
80	6	9	5,80	0,26	5,22	114,86	4,50
8,00	6	9	5,80	0,26	5,22	118,34	4,50
20	7	11	6,77	0,35	6,96	121,82	5,14
40	7	11	6,77	0,35	6,96	125,30	5,14
60	7	11	6,77	0,35	6,96	128,78	4,50
80	8	12	7,74	0,35	6,96	132,26	7,00
9,00	9	16	8,70	0,61	12,18	135,74	7,00
20	9	16	8,70	0,61	12,18	139,22	6,75
40	12	21	11,60	0,78	15,66	142,70	7,00
60	15	28	14,50	1,13	22,63	146,18	7,00
80	18	32	17,41	1,22	24,37	149,66	7,00

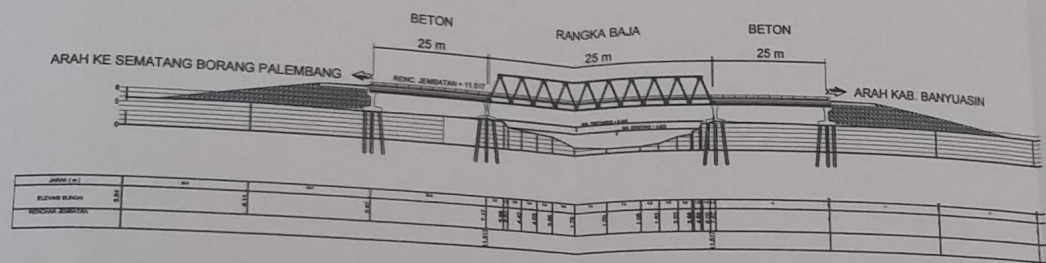
Tahanan (kg)	Pembacaan Manometer (kg/cm <sup>2</sup> )		Tahanan (kg/cm <sup>2</sup> )		Local Friction (kg/cm)	Cumulatif Total Fric (kg/cm)	Rasio F <sub>s</sub> /q <sub>c</sub> (%)
	M1	M2	Conus (q <sub>c</sub> )	Fric (f <sub>s</sub> )			
<b>10,00</b>	<b>26</b>	<b>39</b>	<b>25,14</b>	<b>1,13</b>	<b>22,63</b>		
20	31	45	29,98	1,22	24,37	200,22	4,50
40	37	51	35,78	1,22	24,37	304,59	4,06
60	41	55	39,64	1,22	24,37	328,95	3,41
80	46	59	44,48	1,13	22,63	353,32	3,07
<b>11,00</b>	<b>51</b>	<b>66</b>	<b>49,31</b>	<b>1,31</b>	<b>26,11</b>	<b>375,95</b>	<b>2,54</b>
20	54	67	52,22	1,13	22,63	402,06	2,65
40	57	71	55,12	1,22	24,37	424,68	2,17
60	59	74	57,05	1,31	26,11	449,05	2,21
80	61	75	58,98	1,22	24,37	475,16	2,29
<b>12,00</b>	<b>65</b>	<b>78</b>	<b>62,85</b>	<b>1,13</b>	<b>22,63</b>	<b>499,52</b>	<b>2,07</b>
20	68	83	65,75	1,31	26,11	522,15	1,80
40	74	87	71,55	1,13	22,63	548,26	1,99
60	76	89	73,49	1,13	22,63	570,88	1,58
80	84	97	81,22	1,13	22,63	593,51	1,54
<b>13,00</b>	<b>86</b>	<b>99</b>	<b>83,16</b>	<b>1,13</b>	<b>22,63</b>	<b>616,14</b>	<b>1,39</b>
20	91	105	87,99	1,22	24,37	638,76	1,36
40	96	110	92,83	1,22	24,37	663,13	1,38
60	95	108	91,86	1,13	22,63	687,50	1,31
80	93	107	89,93	1,22	24,37	710,12	1,23
<b>14,00</b>	<b>79</b>	<b>112</b>	<b>76,39</b>	<b>2,87</b>	<b>57,44</b>	<b>734,49</b>	<b>1,35</b>
20	80	97	77,36	1,48	29,59	791,93	3,76
40	82	98	79,29	1,39	27,85	821,52	1,91
60	85	106	82,19	1,83	36,55	849,36	1,76
80	87	113	84,12	2,26	45,25	885,91	2,22
<b>15,00</b>	<b>92</b>	<b>116</b>	<b>88,96</b>	<b>2,09</b>	<b>41,77</b>	<b>931,17</b>	<b>2,69</b>
20	98	123	94,76	2,18	43,51	972,94	2,35
40	104	127	100,56	2,00	40,03	1016,45	2,30
60	115	135	111,20	1,74	34,81	1056,48	1,99
80	121	134	117,00	1,13	22,63	1091,29	1,57
<b>16,00</b>	<b>126</b>	<b>140</b>	<b>121,84</b>	<b>1,22</b>	<b>24,37</b>	<b>1113,92</b>	<b>0,97</b>
20	132	145	127,64	1,13	22,63	1138,29	1,00
40	138	155	133,44	1,48	29,59	1160,91	0,89
60	142	158	137,31	1,39	27,85	1190,50	1,11
80	145	162	140,21	1,48	29,59	1218,35	1,01
<b>17,00</b>	<b>147</b>	<b>168</b>	<b>142,14</b>	<b>1,83</b>	<b>36,55</b>	<b>1247,94</b>	<b>1,06</b>
20	151	168	146,01	1,48	29,59	1284,49	1,29
40	154	170	148,91	1,39	27,85	1314,08	1,01
60	157	175	151,81	1,57	31,33	1341,93	0,94
80	160	177	154,71	1,48	29,59	1373,25	1,03
<b>18,00</b>	<b>163</b>	<b>179</b>	<b>157,61</b>	<b>1,39</b>	<b>27,85</b>	<b>1402,84</b>	<b>0,96</b>
20	166	180	160,51	1,22	24,37	1430,69	0,88
40	169	180	163,41	0,96	19,15	1455,06	0,76
60	172	185	166,31	1,13	22,63	1474,20	0,59
80	175	188	169,22	1,13	22,63	1496,83	0,68
<b>19,00</b>	<b>177</b>	<b>190</b>	<b>171,15</b>	<b>1,13</b>	<b>22,63</b>	<b>1519,46</b>	<b>0,67</b>
20	180	195	174,05	1,31	26,11	1542,08	0,66
40	185	205	178,88	1,74	34,81	1568,19	0,75
60						1603,00	0,97
80							

### GRAFIK SONDIR S.01

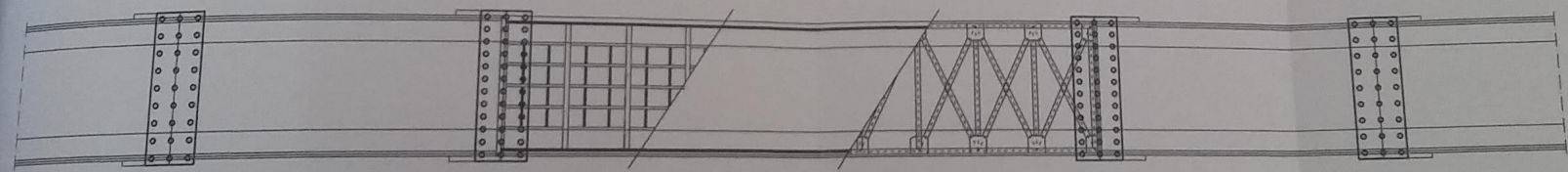
JEMBATAN AIR KAMPUNG MUKTI JAYA DESA KENTEN LAUT







**TAMPAK SAMPING JEMBATAN**  
SKALA 1 : 1000



**TAMPAK ATAS JEMBATAN**  
SKALA 1 : 400

DATE



DR. RAJA MARZAHU, S.T., M.T.,  
NIP. 195304011980001

DR. NURAH, S.T., M.T.,  
NIP. 195304011980001

MAGLY NATASIA KESIBRAH,  
NIP. 20130411100

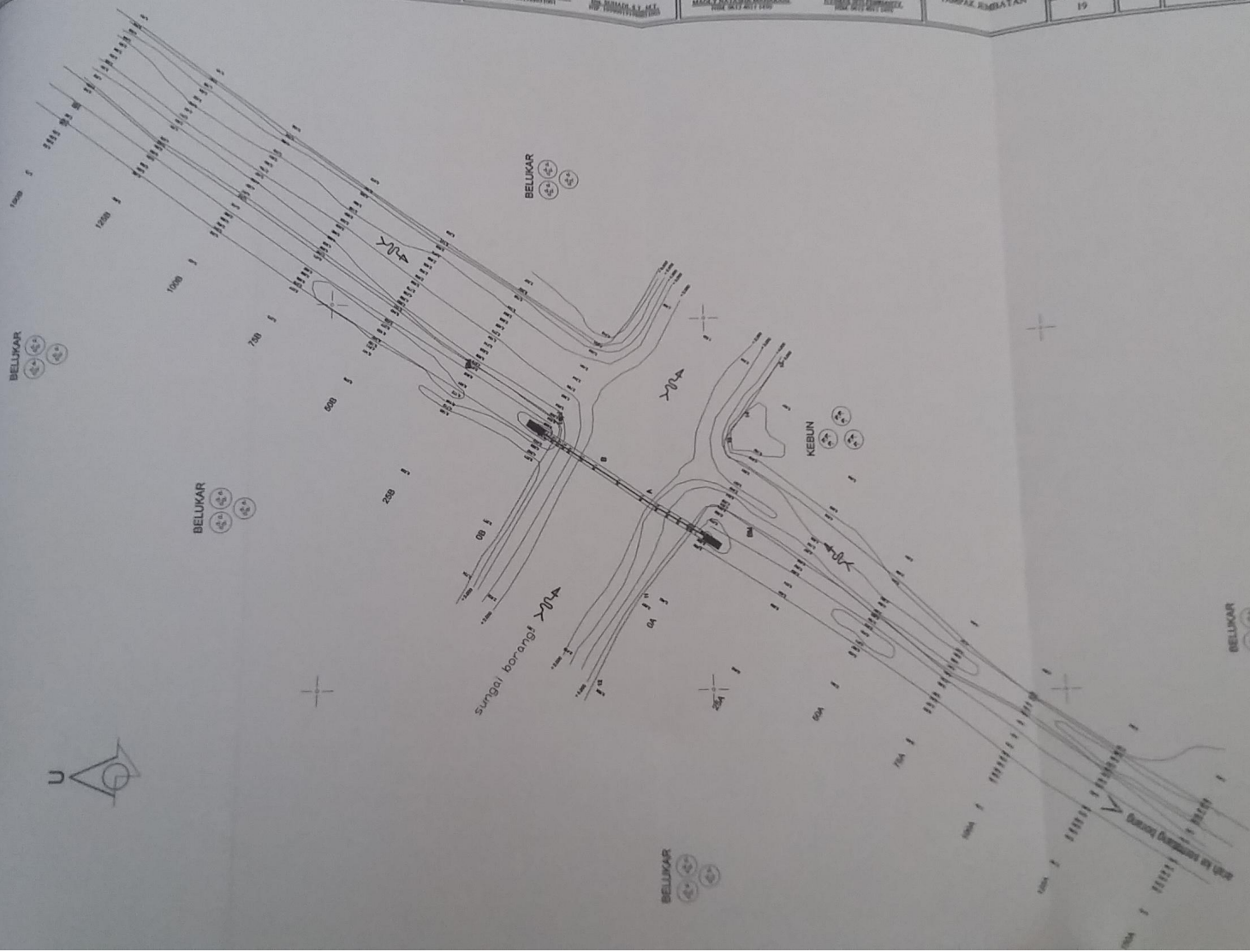
REEMAS DELI FERDINANDY,  
NIP. 20130411100

TAMPAK JEMBATAN

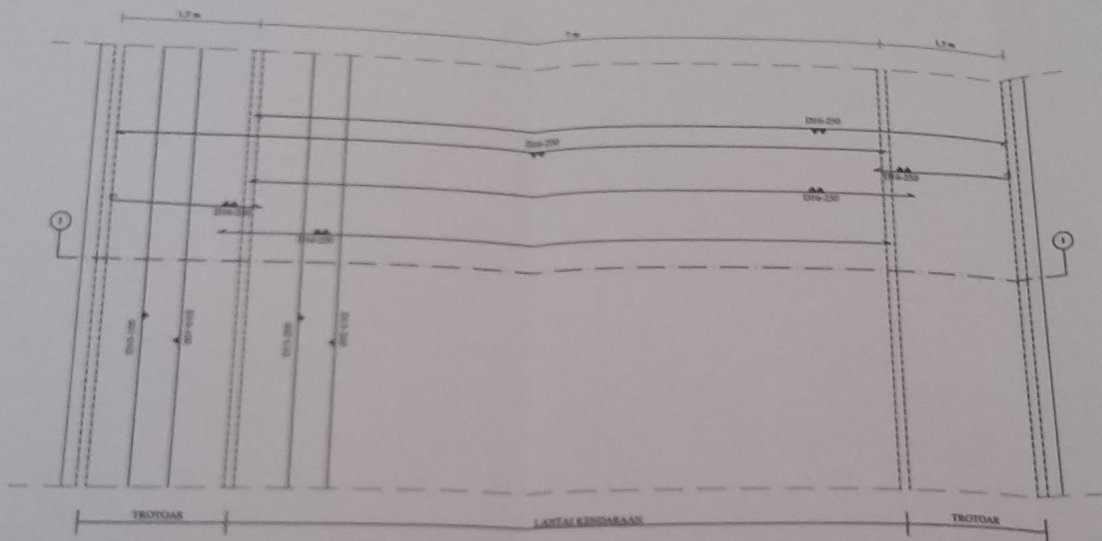
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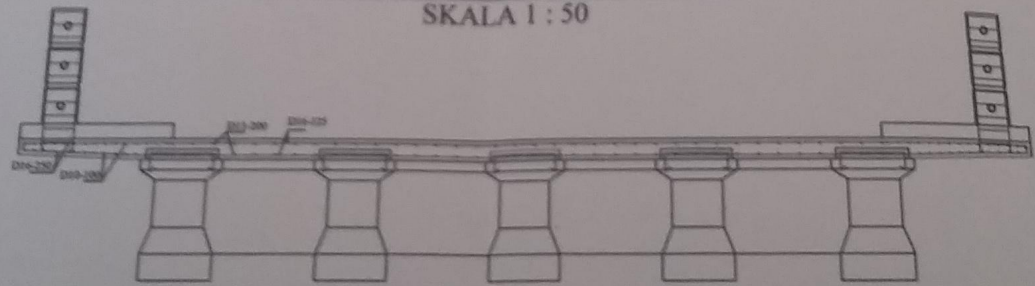
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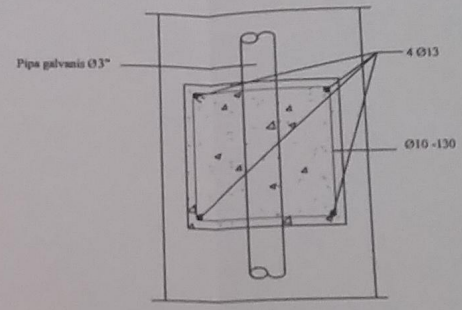
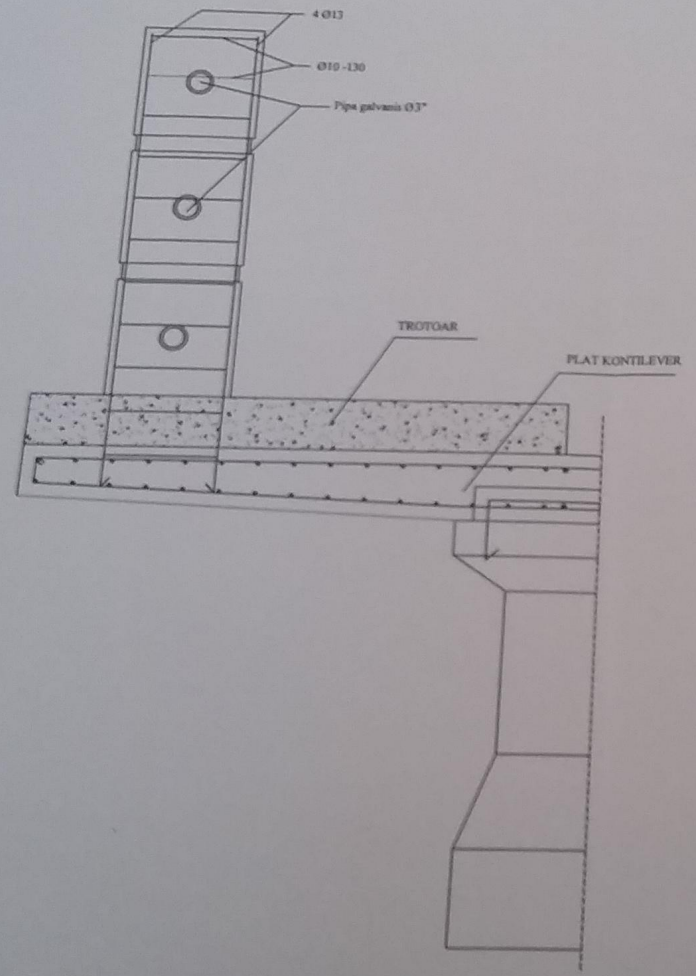
SUBJECT :



**PENULANGAN LANTAI KENDARAAN**  
SKALA 1 : 50

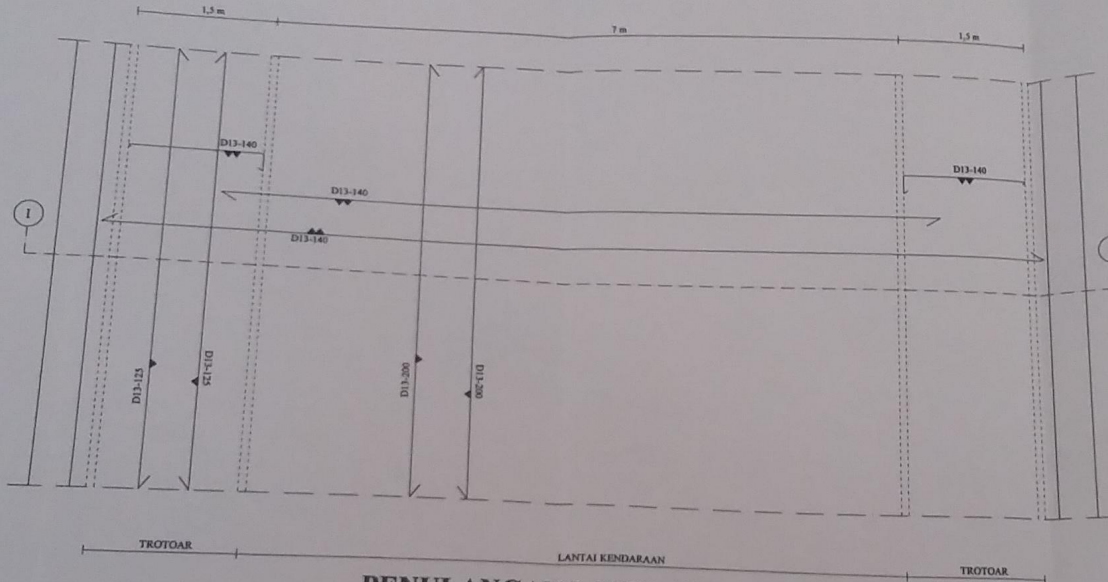


**POTONGAN 1 - 1**  
SKALA 1 : 50

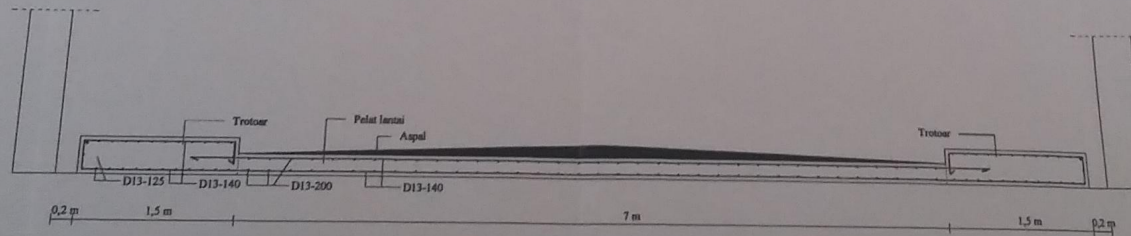


**TAMPAK POT. PAGAR**  
SKALA 1 : 10

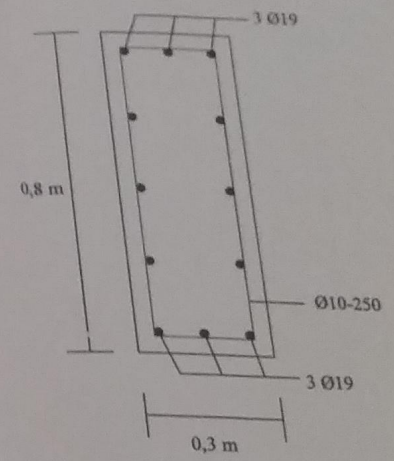
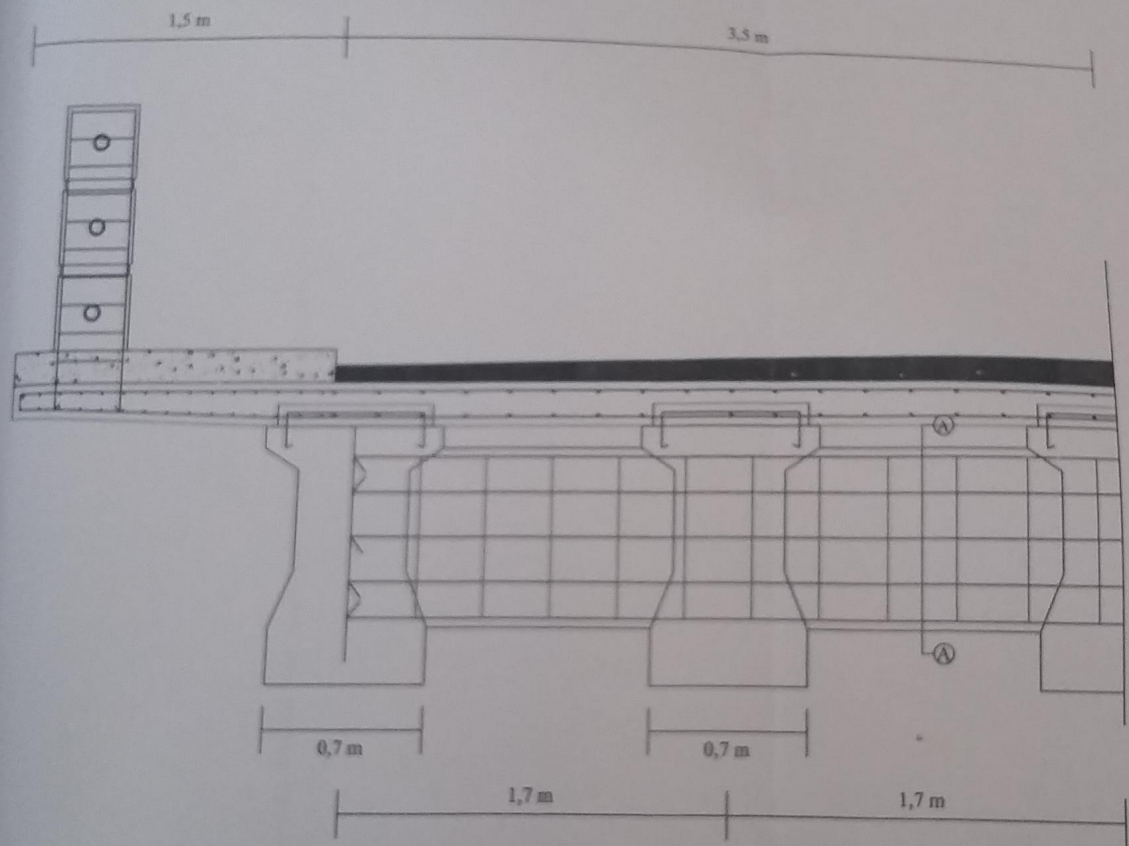
**DETAIL PENULANGAN TIANG SANDARAN DAN PLAT KONTILEVER**  
SKALA 1 : 12,5



**PENULANGAN LANTAI KENDARAAN**  
SKALA 1 : 50

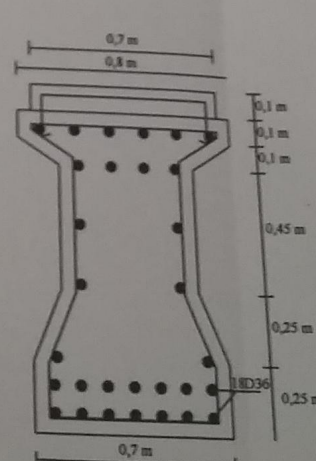
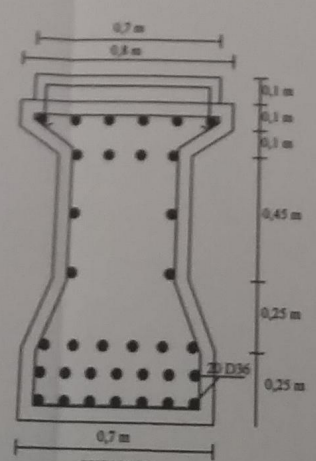
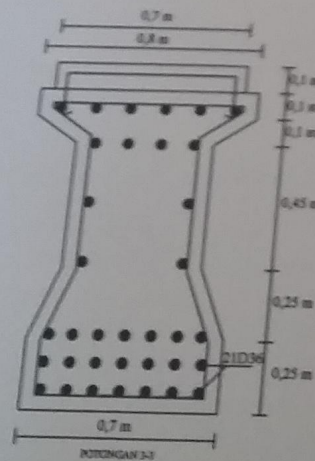
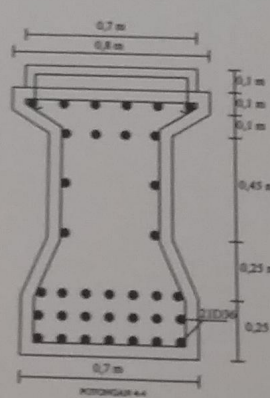
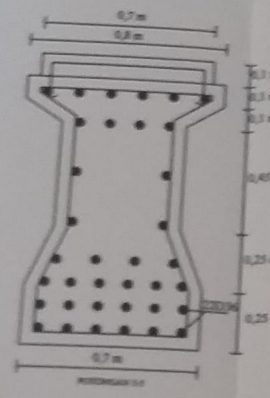


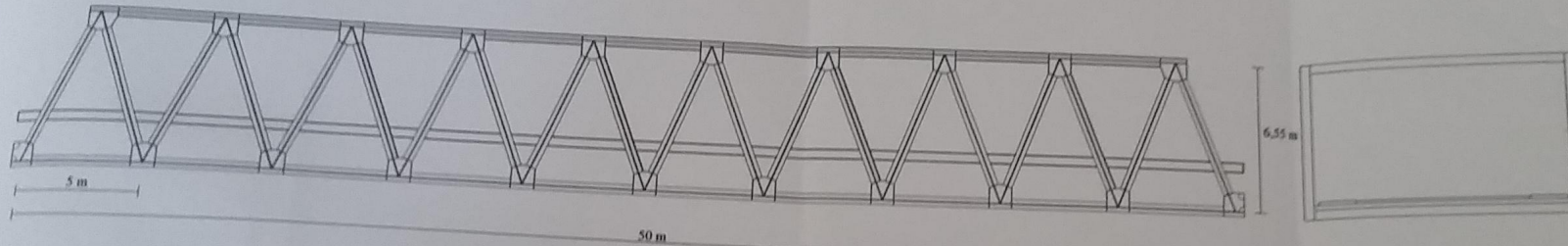
**POTONGAN 1 - 1**  
SKALA 1 : 50



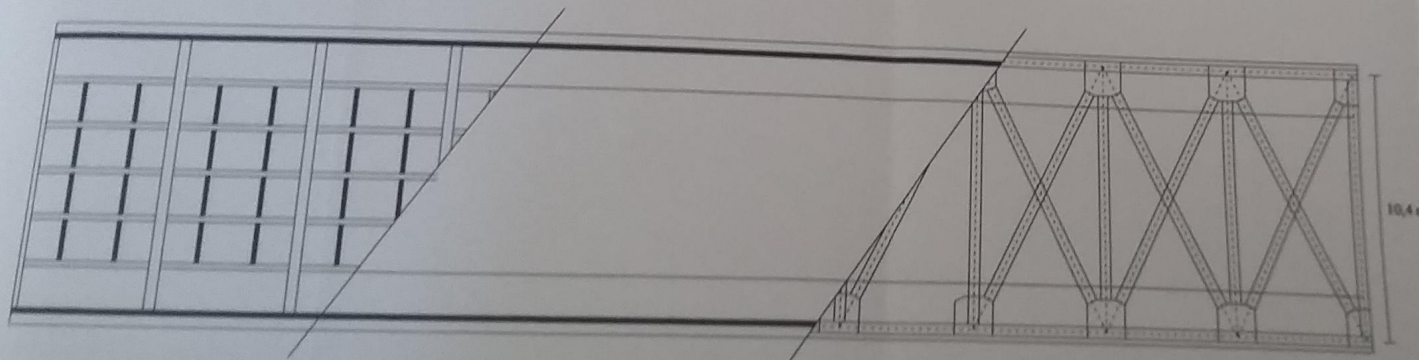
**POTONGAN A-A**  
SKALA 1 : 10

**DETAIL PENULANGAN BALOK DIAFRAGMA**  
SKALA 1 : 20



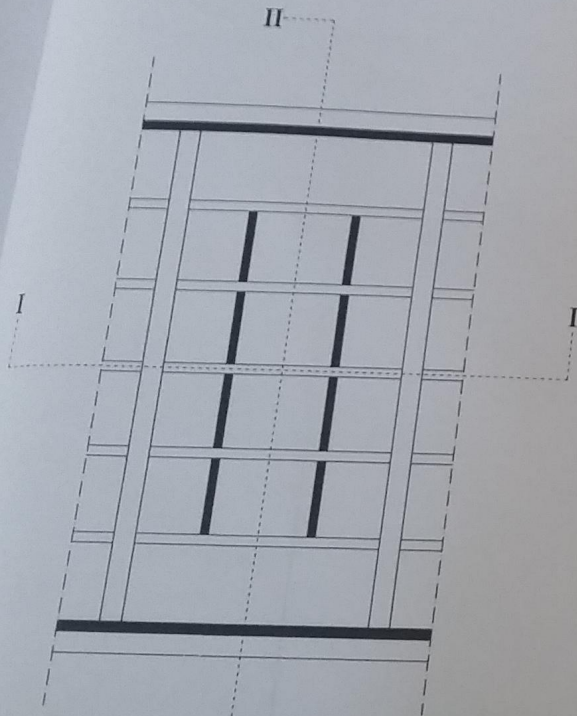


**TAMPAK SAMPING JEMBATAN**  
SKALA 1 : 200

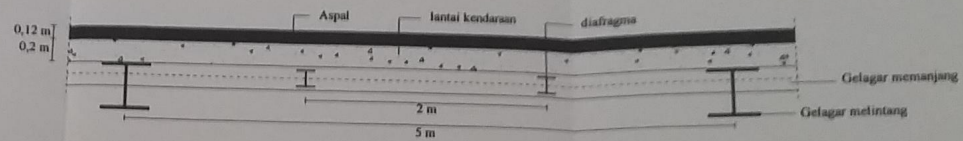


**TAMPAK ATAS JEMBATAN**  
SKALA 1 : 200

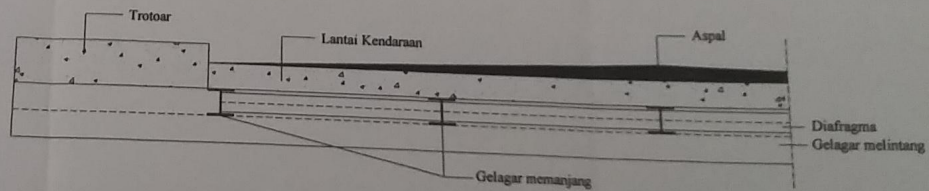




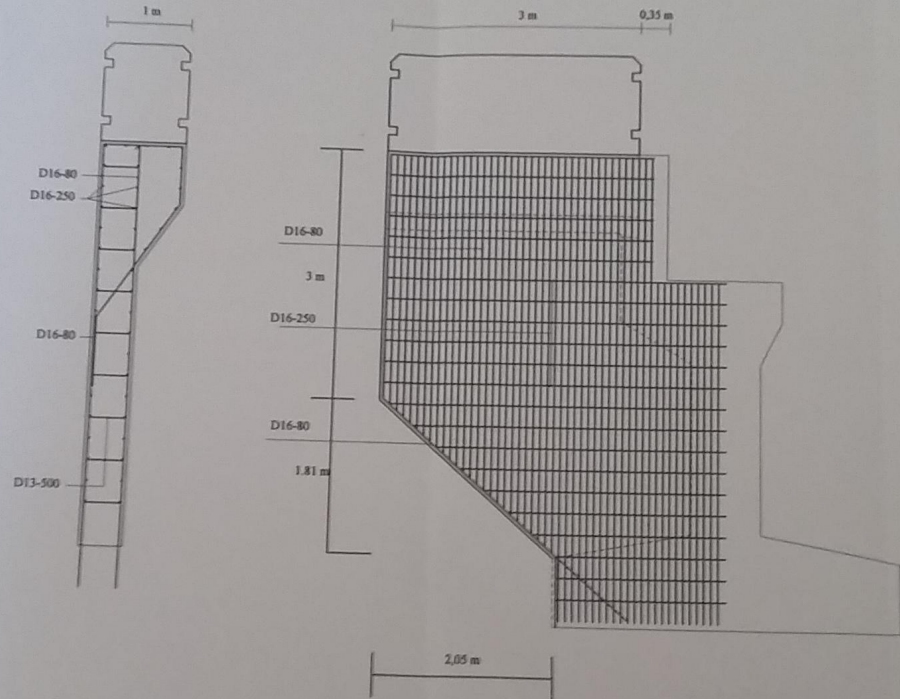
**POTONGAN TAMPAP ATAS**  
SKALA 1 : 100



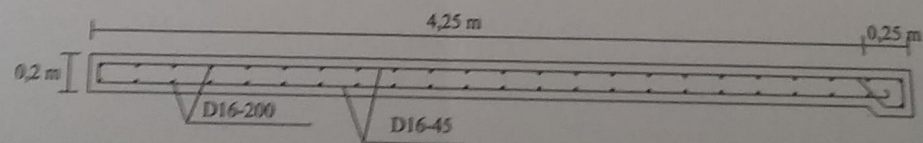
**POTONGAN 1 - 1**  
SKALA 1 : 40



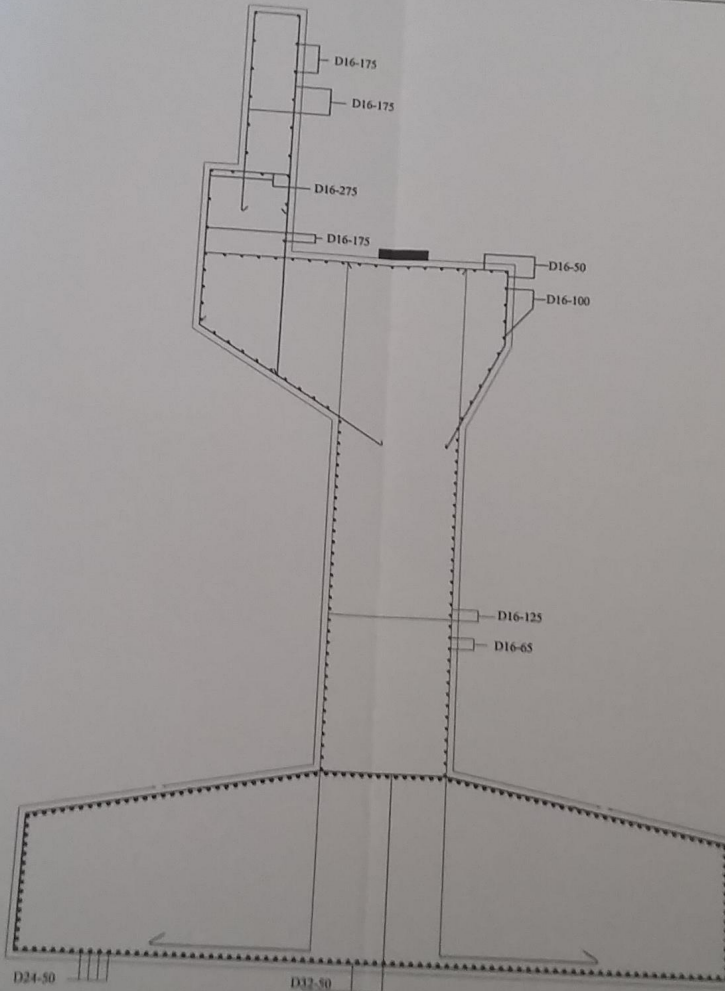
**POTONGAN II- II**  
SKALA 1 : 40



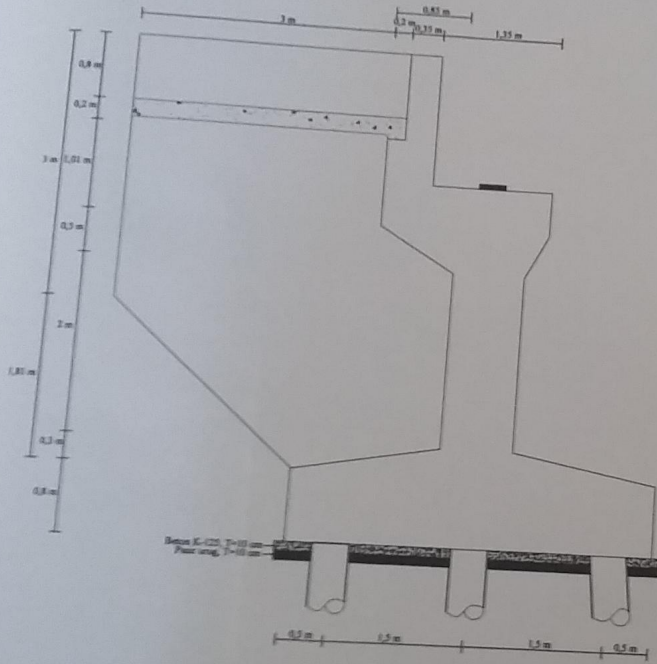
**PENULANGAN DINDING SAYAP**  
SKALA 1 : 50



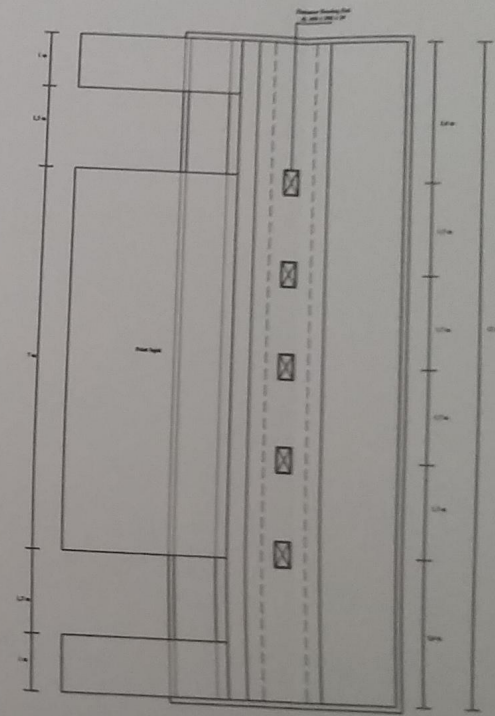
**PENULANGAN PLAT INJAK**  
SKALA 1 : 25



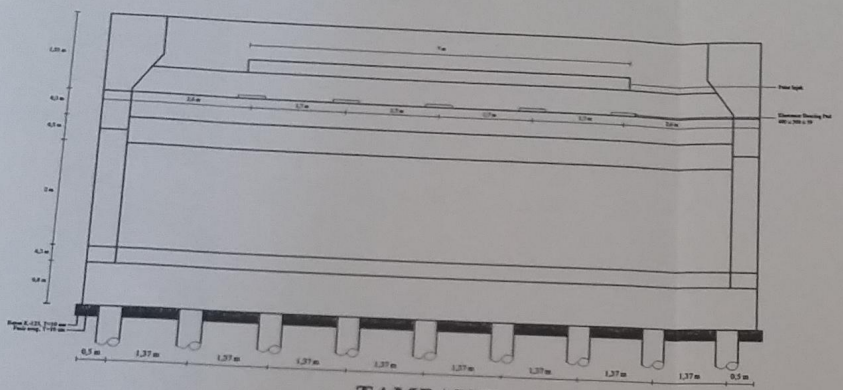
**PEMBESIAN ABUTMENT**  
SKALA 1 : 25



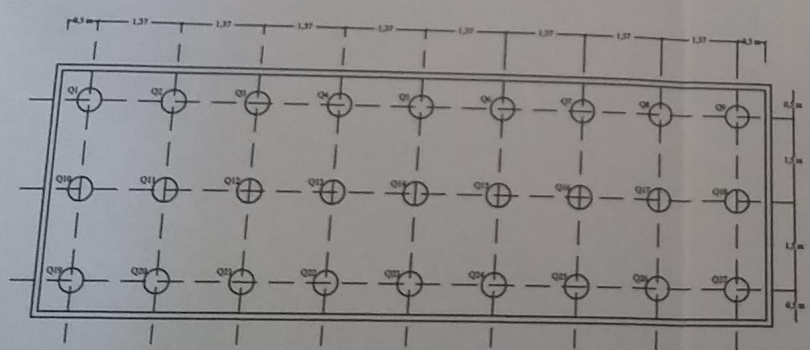
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SKALA 1 : 50



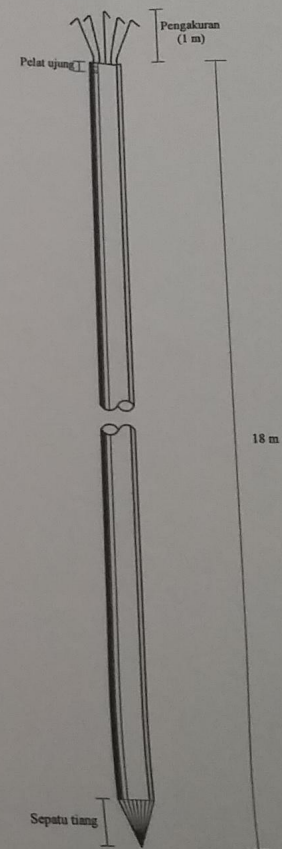
**TAMPAK A**  
SKALA 1 : 80



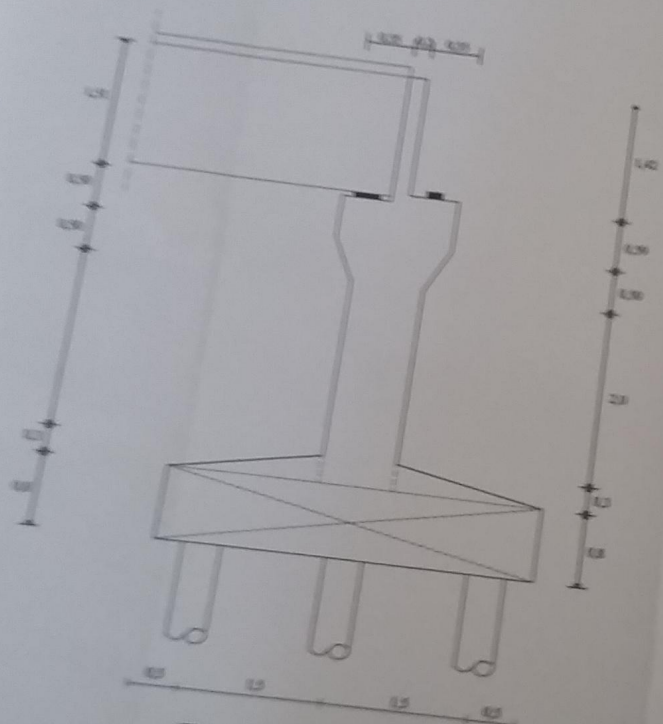
**TAMPAK B**  
SKALA 1 : 80



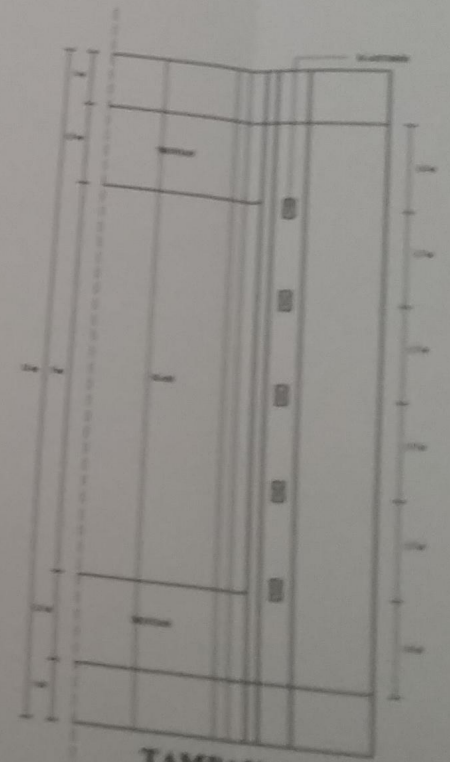
**DENAH TIANG PANCANG**  
SKALA 1 : 80



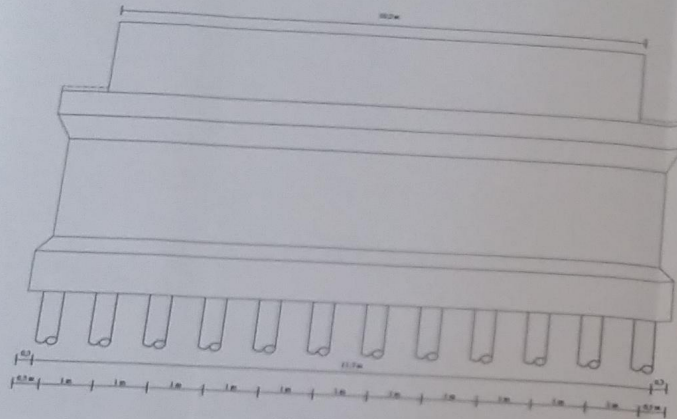
**TIANG PANCANG**  
SKALA VERTIKAL 1 : 10  
SKALA HORIZONTAL 1 : 50



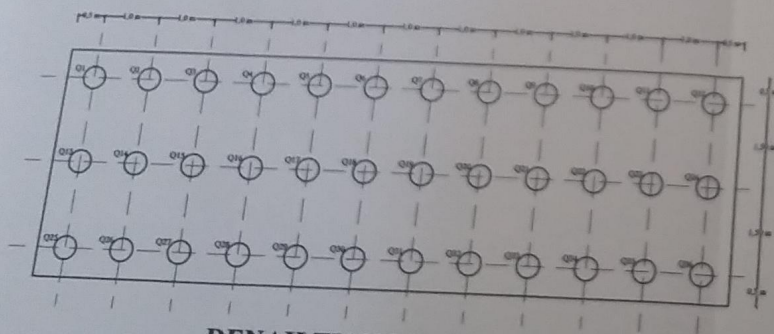
**TAMPAK SAMPING**  
**SKALA 1 : 50**



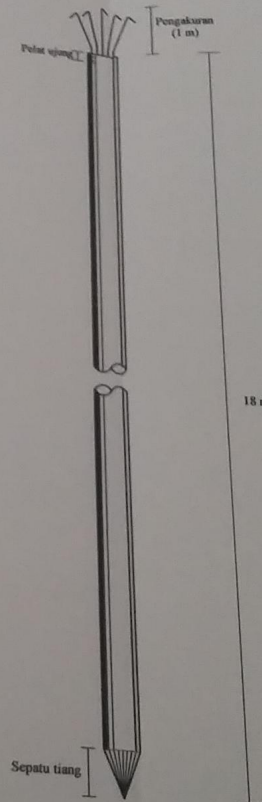
**TAMPAK A**  
**SKALA 1 : 100**



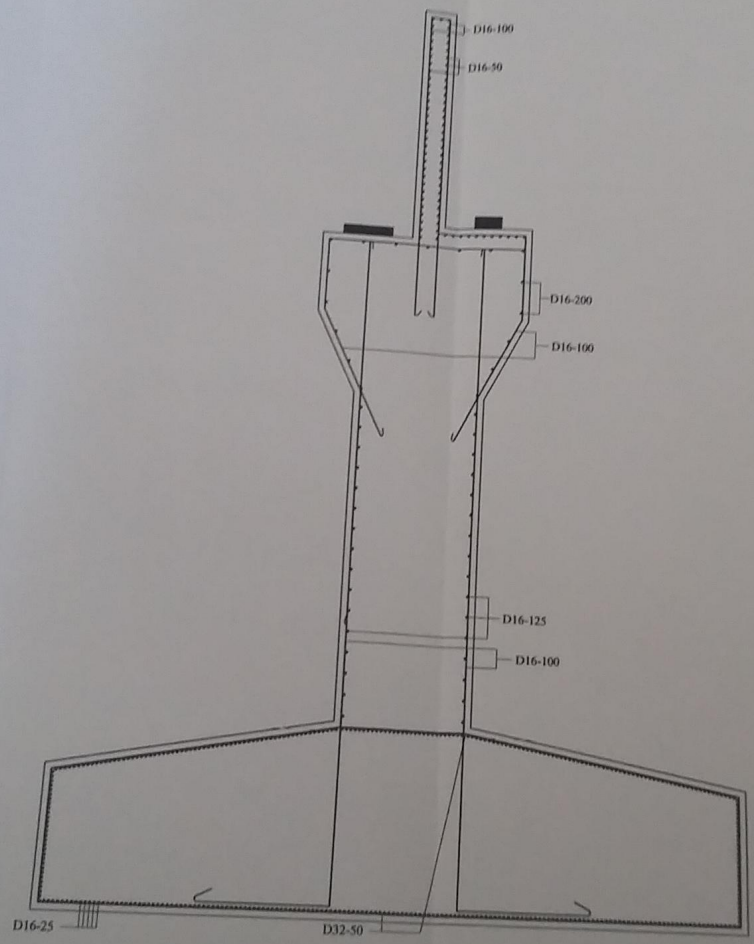
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SKALA 1 : 80



**DENAH TIANG PANCANG**  
SKALA 1 : 80

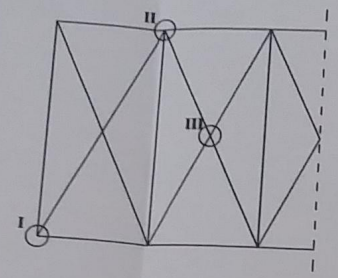


**TIANG PANCANG**  
SKALA VERTIKAL 1 : 10  
SKALA HORIZONTAL 1 : 50

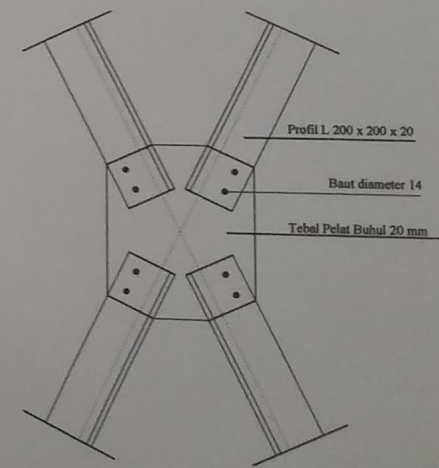
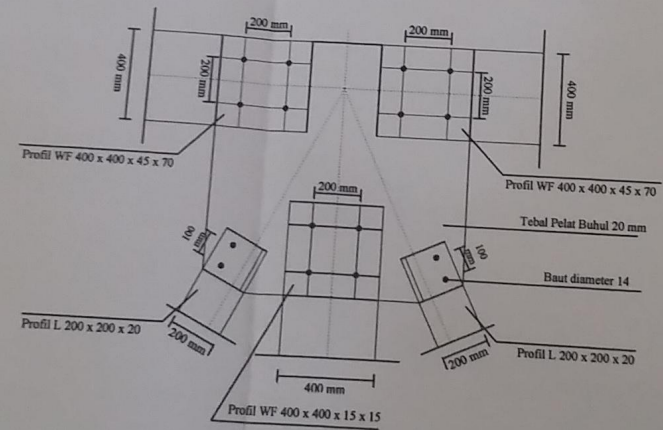
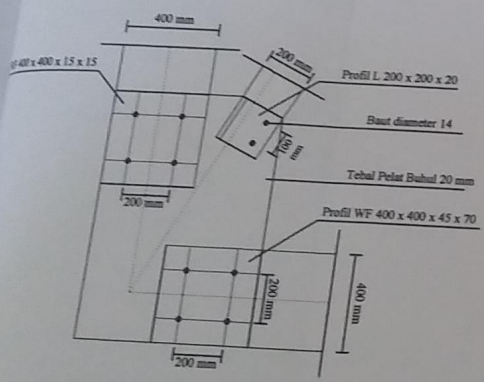


**PENULANGAN PILAR**  
SKALA 1 : 25

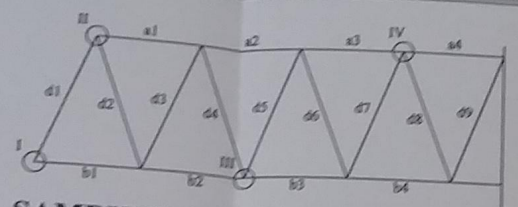




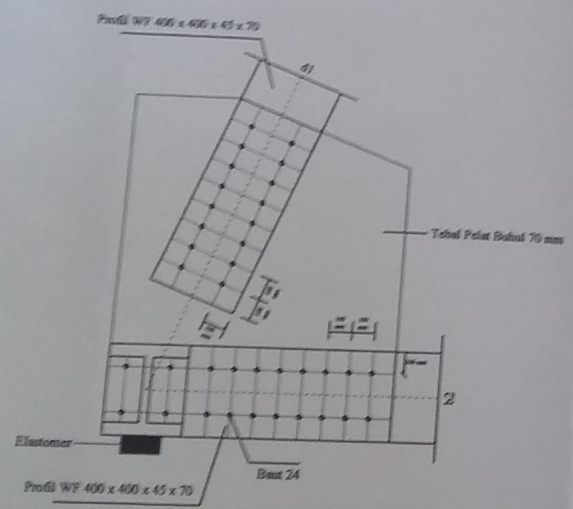
**SAMBUNGAN IKATAN ANGIN ATAS**  
SKALA 1 : 200



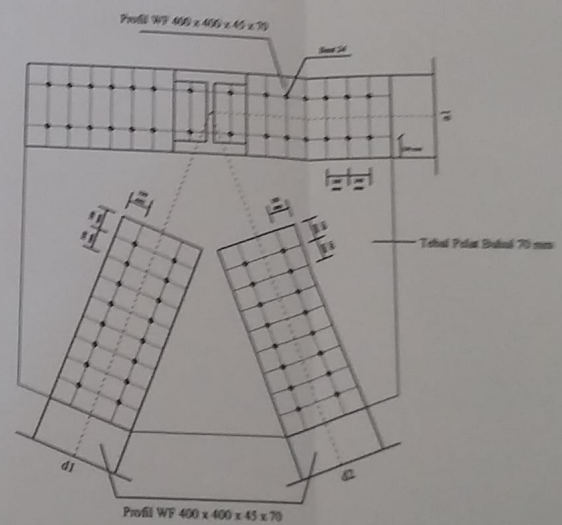
**SAMBUNGAN IKATAN ANGIN ATAS SIMPUL I, II DAN III**  
SKALA 1 : 200



**SAMBUNGAN RANGKA UTAMA**  
SKALA 1 : 200

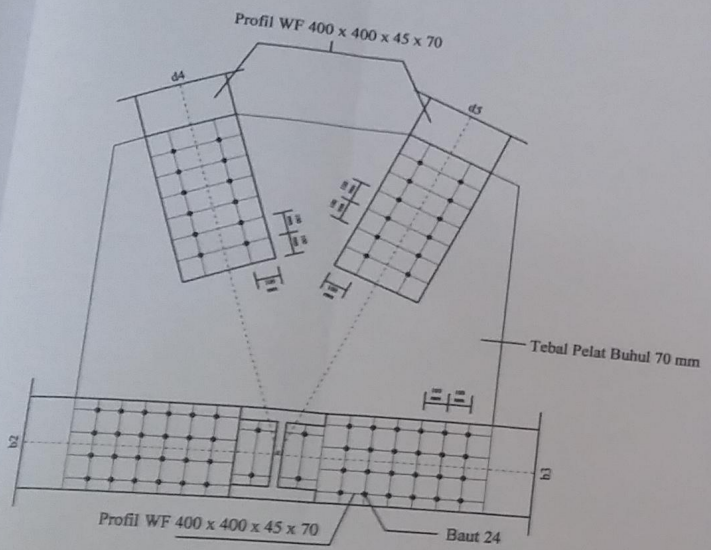


**SAMBUNGAN I**

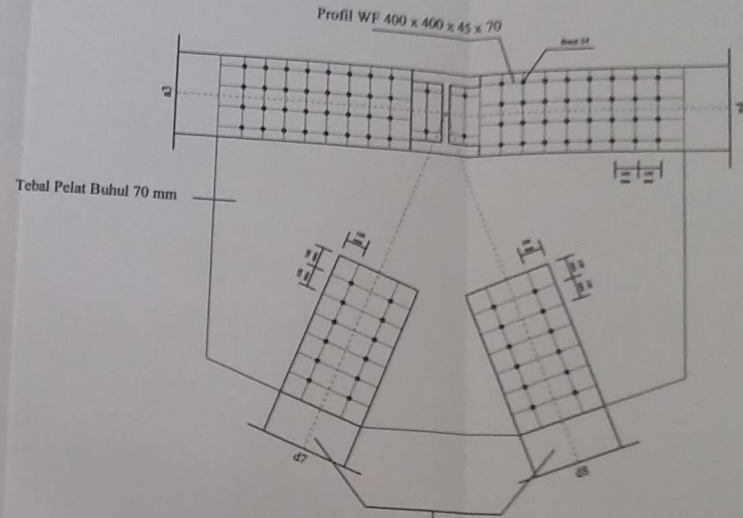


**SAMBUNGAN II**

**SAMBUNGAN RANGKA UTAMA SIMPUL I, DAN II**  
SKALA 1 : 20



**SAMBUNGAN III**



**SAMBUNGAN IV**

**SAMBUNGAN RANGKA UTAMA SIMPUL III DAN IV**  
**SKALA 1 : 20**