



JURUSAN TEKNIK INDUSTRI
FAKULTAS TEKNIK UNIVERSITAS DARMA PERSADA

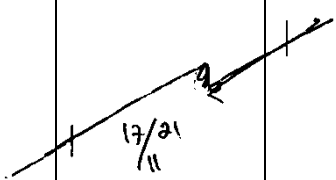
LEMBAR PERBAIKAN SIDANG SKRIPSI

NAMA : Dimas Wisnu Aji

NIM : 2017220041

JUDUL SKRIPSI :

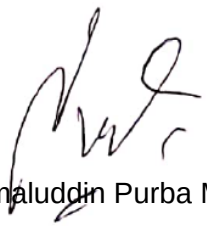
**“Analisis Waktu dan Biaya Dengan Metode Time Cost Trade Off Pada Keterlambatan Proyek
Jalan Tol Trans Sumatera”**

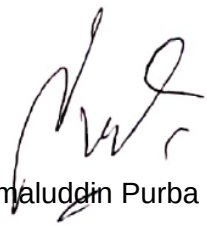
No.	Penguji	Uraian Perbaikan	Paraf
1.	Alfian Destha Joanda, ST.MT.	1. Beri penjelasan pada biaya langsung berupa satuan harga . 2. Berikan penjelasan pada kesimpulan tentang hasil penelitian. 3. Berikan keterangan pada kegiatan yang akan dilakukan <i>crashing</i>.	 17/8
2.	Dr. Ade Supriatna, ST.MT.	1. Rapihkan penyusunan biaya langsung. 2. Buat <i>Work Breakdown Structure</i> dengan format sesuai kaidah Manajemen Proyek. 3. Berikan jenis-jenis biaya tidak langsung proyek.	

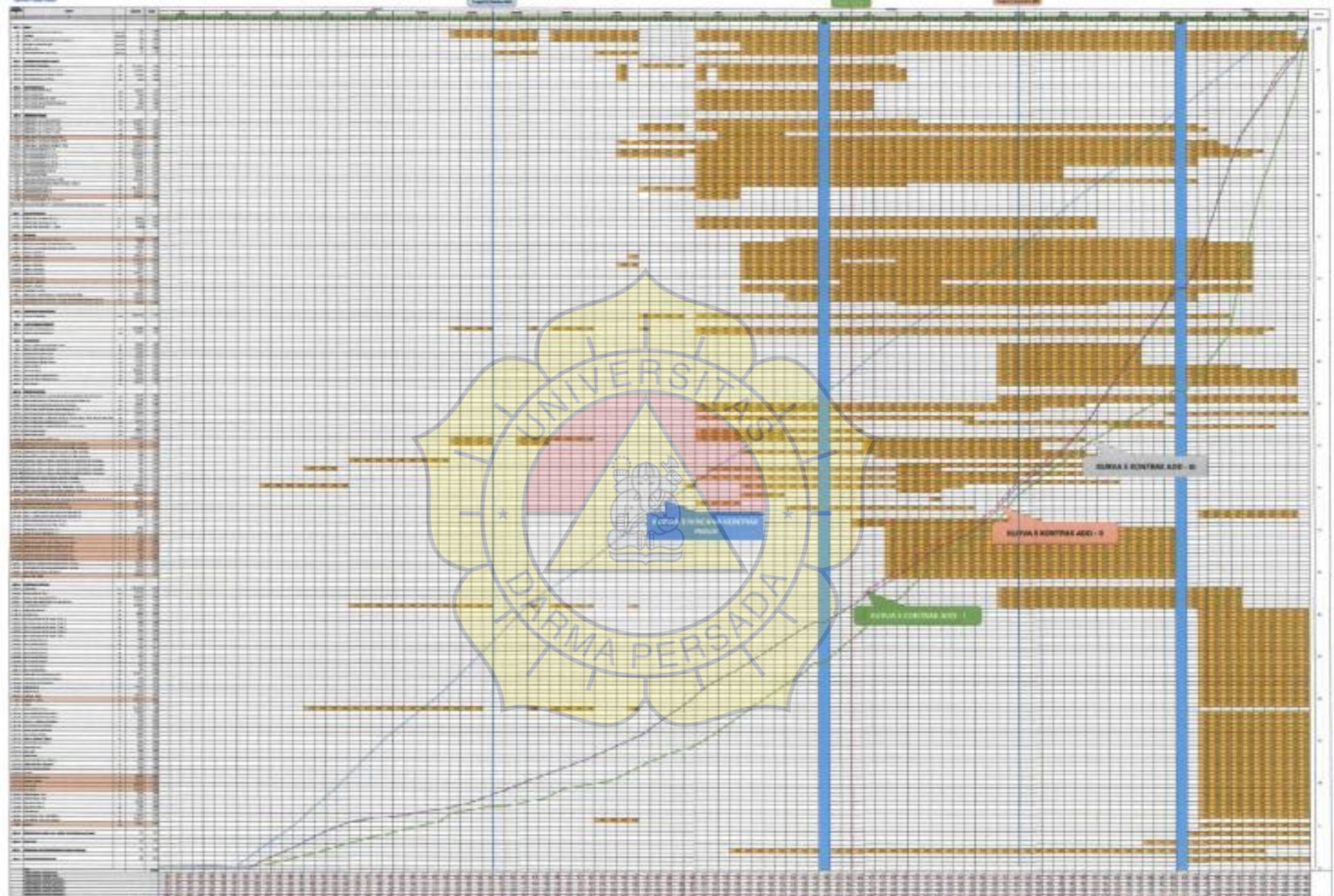
05 Agustus 2021

Mengetahui,
Ketua Jurusan Teknik Industri

Disetujui
Pembimbing Skripsi


Ir. Jamaluddin Purba M.T


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 TRANS SUMATERA Trans Sumatera  STRUKTUR																																																																																																		
LAPORAN HARIAN																																																																																																		
NAMA PROJEK : PERSEKUTUAN JALAN TOL TRANS-SUMATERA RUH PERANGKAP-INDANG DIMAS : PERANGKAP - BANGKUNING			MUSIM HARIAN ETABOND : 20 November 2020 TANGGAL : 20 NAM H2 : Eran Ratu Sepuluh																																																																																															
A. PERKERASAN <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO</th> <th>URAIAN</th> <th>LOKASI</th> <th>VOL.</th> <th>UNIT</th> </tr> </thead> <tbody> <tr> <td>1.23</td> <td>Ungapan dan Kembangan Laka</td> <td></td> <td>0.15</td> <td>12</td> </tr> <tr> <td>1.24</td> <td>Pelapisan dan Penempatan Aliran</td> <td></td> <td>0.15</td> <td>12</td> </tr> <tr> <td>2.51-2</td> <td>Pemadatan Tempa Rata</td> <td>Real Area 25-400 25-1000, 500 L</td> <td>14.507.30</td> <td>m2</td> </tr> <tr> <td>10.50-254</td> <td>Gelen Bata untuk Obang (water)</td> <td>Real Area 25-400 25-1000, 500 L</td> <td>20.000.00</td> <td>m2</td> </tr> <tr> <td>8.50-2</td> <td>Pemadatan Beton</td> <td>214 25-1000 25-1000</td> <td>700.00</td> <td>m2</td> </tr> </tbody> </table> B. MATERIAL <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO</th> <th>JENIS</th> <th>SAT.</th> <th>CACAH/VOLUME</th> <th>KETERANGAN</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ungapan dan Kembangan Laka</td> <td>12</td> <td>-</td> <td></td> </tr> <tr> <td>2</td> <td>Pelapisan dan Penempatan Aliran</td> <td>12</td> <td>-</td> <td></td> </tr> <tr> <td>3</td> <td>Pemadatan Tempa Rata</td> <td>m2</td> <td>-14.507</td> <td></td> </tr> <tr> <td>4</td> <td>Gelen Bata untuk Obang (water)</td> <td>m2</td> <td>-20.000</td> <td></td> </tr> <tr> <td>5</td> <td>Pemadatan Beton</td> <td>m2</td> <td>-700</td> <td></td> </tr> </tbody> </table>					NO	URAIAN	LOKASI	VOL.	UNIT	1.23	Ungapan dan Kembangan Laka		0.15	12	1.24	Pelapisan dan Penempatan Aliran		0.15	12	2.51-2	Pemadatan Tempa Rata	Real Area 25-400 25-1000, 500 L	14.507.30	m2	10.50-254	Gelen Bata untuk Obang (water)	Real Area 25-400 25-1000, 500 L	20.000.00	m2	8.50-2	Pemadatan Beton	214 25-1000 25-1000	700.00	m2	NO	JENIS	SAT.	CACAH/VOLUME	KETERANGAN	1	Ungapan dan Kembangan Laka	12	-		2	Pelapisan dan Penempatan Aliran	12	-		3	Pemadatan Tempa Rata	m2	-14.507		4	Gelen Bata untuk Obang (water)	m2	-20.000		5	Pemadatan Beton	m2	-700																																			
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Lampiran 1

NO MATA PEMBAYARA N	URAIAN		KUANTITAS	HARGA SATUAN (Rp)	JUMLAH HARGA (Rp)
a	b	c		e	f
DIV 1	UMUM				
1,19	Manajemen dan Keselamatan Lalu Lintas	lump sum	1,00	15.423.527.970,00	15.423.527.970,00
1,20	Mobilisasi	lump sum	1,00	33.527.289.050,00	33.527.289.050,00
1,26	Pekerjaan dan Penanganan Aliran Air yang sudah ada	lump sum	1,00	398.160.000,00	398.160.000,00
1,39	Penanganan Lingkungan Hidup	lump sum	1,00	989.000.000,00	989.000.000,00
1,40	Manajemen Mutu	lump sum	1,00	966.000.000,00	966.000.000,00
1,50	Perencanaan Rencana Teknik Akhir	lump sum	1,00	9.416.668.699,99	9.416.668.699,99
DIV 2	PEMBERSIHAN TEMPAT KERJA				
2.01 (1)	Pembersihan Tempat Kerja	M2	2.997.688,88	10.010,00	30.006.865.638,75
2.01 (2)	Pemotongan Pohon, dia. >30 cm – 50 cm	Bh	45.824,00	99.340,00	4.552.156.160,00
2.01 (3)	Pemotongan Pohon, dia. >50 cm – 75 cm	Bh	17.754,00	129.860,00	2.305.534.440,00
2.01 (4)	Pemotongan Pohon, dia. >75 cm	Bh	690,00	218.080,00	150.475.200,00
DIV 3	PEMBONGKARAN				
3.01 (2)	Pembongkaran Struktur Beton	M3	10.800,00	128.040,00	1.382.832.000,00
3.01 (3)	Pembongkaran Kerb	M1	250,00	47.240,00	11.810.000,00
3.01 (4)	Pembongkaran Rambu Lalu Lintas	Bh	48,00	182.410,00	8.755.680,00
3.01 (5)	Pembongkaran Guardrail/Railing/Chailing Link	M1	48,00	136.330,00	6.543.840,00
3.01 (6)	Pembongkaran Rumah	M2	12.350,00	166.510,00	2.056.398.500,00

DIV 4	PEKERJAAN TANAH				
4.03 (1) a	Galian Biasa untuk Timbunan max 5 km	m3	973.465,77	54.680,00	53.229.108.184,67
4.03 (1) b	Galian Biasa untuk Timbunan 5 - 10 km	m3	273.680,15	71.170,00	19.477.815.962,35
4.03 (1) c	Galian Biasa untuk Timbunan 10 - 15 km	m3	11.452,54	87.120,00	997.745.149,33
4.03 (1) d	Galian Biasa untuk Timbunan > 15 km	m3	564,00	98.900,00	55.779.600,00
4.03 (3)	Galian Biasa untuk Dibuang (waste) 0-5 km	m3	1.893.185,20	45.360,00	85.874.880.816,16
4.03 (3a)	Galian Biasa untuk Dibuang (waste) 5 - 10 km	m3	851.764,47	66.360,00	56.523.089.998,60
4.03 (3b)	Galian Biasa untuk Dibuang (waste) 10 - 15 km	m3	30.420,16	89.230,00	2.714.390.833,86
4.05 (1) a	Common Borrow Material 0 - 5 km	m3	3.778.011,43	74.370,00	280.970.709.829,71
4.05 (1) b	Common Borrow Material 5 - 10 km	m3	2.206.595,94	92.150,00	203.337.816.161,46
4.05 (1) c	Common Borrow Material 10 - 15 km	m3	188.900,57	112.020,00	21.160.642.002,91
4.05 (1) d	Common Borrow Material 15 - 20 km	m3	94.450,29	132.850,00	12.547.720.452,09
4.05 (1) e	Common Borrow Material 20 - 25 km	m3	18.890,06	154.650,00	2.921.347.335,97
4.05 (1) f	Common Borrow Material > 25 km	m3	9.445,03	166.030,00	1.568.158.093,08
4.05 (2)	Selected Borrow Material	m3	8.210,79	299.640,00	2.460.279.746,84
4.09	Urugan Material Berbutir (Granular Backfill)	m3	138.560,89	305.520,00	42.333.123.641,53
4.12 (1)	Geotekstil Filter untuk Drainase Bawah Permukaan (Kelas 2)	m2	120,00	21.450,00	2.574.000,00
4.12 (2)	Geotekstil Separator (Kelas 1)	m2	1.928.102,84	23.090,00	44.519.894.501,48
4.12 (4)	Geotekstil Separator (Kelas 3)	m2	30.663,64	18.160,00	556.851.657,00
4.12 (5)	Geotekstile Woven 100 kN	m2	191.439,87	42.190,00	8.076.848.150,99
S4.13(5)	Common Borrow Material Pre Loading PVD	m3	-	83.570,00	-
SKh-1.4.15(1)	Percepatan Konsolidasi Tanah dengan Metode Penyalir Vertikal dengan Vakum dan PVD	m2	-	990.210,00	-

DIV 5	GALIAN STRUKTUR				
5.01	Galian Struktur kedalam >0 – 2 m	m3	52.860,41	58.240,00	3.078.589.990,01
5.02	Galian Struktur kedalam >2 – 4 m	m3	9.260,65	73.830,00	683.713.533,81
5.01 (6)	Pasangan Batu Kosong (Blinding Stone)	m3	4.639,30	588.330,00	2.729.439.827,90
DIV 6	DRAINASE				
6.04 (1)	Box Culvert Drain Precast Dim. 2.00 x 2.00 M	m1	2.042,60	17.649.760,00	36.051.399.776,00
6.05 (2)	Pipa Gorong-gorong Beton Bertulang, Ø 40 cm type A	m1	708,00	1.513.760,00	1.071.742.080,00
6.05 (5)	Pipa Gorong-gorong Beton Bertulang, dia.60 cm, Type B	m1	5.175,24	4.872.667,82	25.217.225.393,06
6.06 (1)	Saluran U, Tipe DS -1	m1	278,81	88.290,00	24.616.355,63
6.06 (3a)	Saluran U, Tipe DS-3a	m1	10.550,00	1.799.810,00	18.987.995.500,00
6.06 (6)	Saluran U, Tipe DS-6	m1	53.150,00	3.156.220,00	167.753.093.000,00
6.06 (8)	Saluran U, Tipe DS-8	m1	44.786,79	506.840,00	22.699.738.924,38
6.06 (10)	Saluran U, Tipe DS-10	m1	182,60	637.740,00	116.449.964,34
6.06 (13)	Saluran U, Tipe DS-13	m1	66.288,14	499.520,00	33.112.249.694,72
6.06 (14)	Catch basin, Tipe DC-1	bh	120,00	4.674.950,00	560.994.000,00
6.06 (16)	Catchbasin, Tipe DC-3	bh	265,00	5.017.860,00	1.329.732.900,00
6.06 (25)	Inlet Drain, Tipe DI-1	bh	16,00	8.950.970,00	143.215.520,00
6.06 (29)	Outlet Drain, Tipe DO-1	bh	16,00	8.950.970,00	143.215.520,00
6.07 (1)	Bahan Porous untuk Penimbunan atau Bahan Penyaring (Filter)	m3	13.994,00	471.510,00	6.598.310.940,00
6.07 (2c)	Pipa Berlubang Banyak (Perforated Pipe) untuk Drainase Bawah Permukaan Dia.6 inch	m1	10.756,00	303.630,00	3.265.844.280,00
6.07 (2d)	Pipa Berlubang Banyak (Perforated Pipe) untuk Drainase Bawah Permukaan Dia.8 inch	m1	5.085,00	424.700,00	2.159.599.500,00

DIV 7	PENYIAPAN TANAH DASAR				
7.01	Persiapan Tanah Dasar	m2	1.359.792,00	5.550,00	7.546.845.600,00
DIV 8	LAPIS PONDASI AGREGAT				
8.01 (1)	Lapis Pondasi Agregat Kelas A	m3	205.318,80	617.700,00	126.825.422.760,00
8.01 (2)	Lapis Pondasi Agregat Kelas B	m3	8.340,00	600.810,00	5.010.755.400,00
DIV 9	PERKERASAN				
9.04	Bitumen Lapis Resap Pengikat (Prime Coat)	Kg	42.000,00	15.410,00	647.220.000,00
9.05	Bitumen Lapis Perekat (Tack Coat)	Kg	42.894,25	16.220,00	695.744.735,00
9.07 (1)	Asphalt Concreate Base Course	ton	1.335,50	865.610,00	1.156.017.826,95
9.07 (2)	Asphalt Concrete Binder Course	ton	11.967,30	865.310,00	10.355.424.882,19
9.07 (3)	Asphalt Concrete Wearing Course	ton	6.119,29	920.570,00	5.633.231.113,02
9.07 (4)	Aspal Pen.60/70	ton	1.627,45	11.040.550,00	17.967.909.534,23
9.08 (1)	Perkerasan Beton	m3	290.530,32	2.160.210,00	627.606.502.567,20
9.08 (2)	Perkerasan Beton, Double Wire Mesh	m3	3.271,62	2.333.720,00	7.635.045.026,40
9.08 (3)	Perkerasan Beton, Single Wire Mesh	m3	3.600,00	2.280.810,00	8.210.916.000,00
9.09 (1)	Lean Concrete	m3	99.183,44	1.432.090,00	142.039.612.589,60

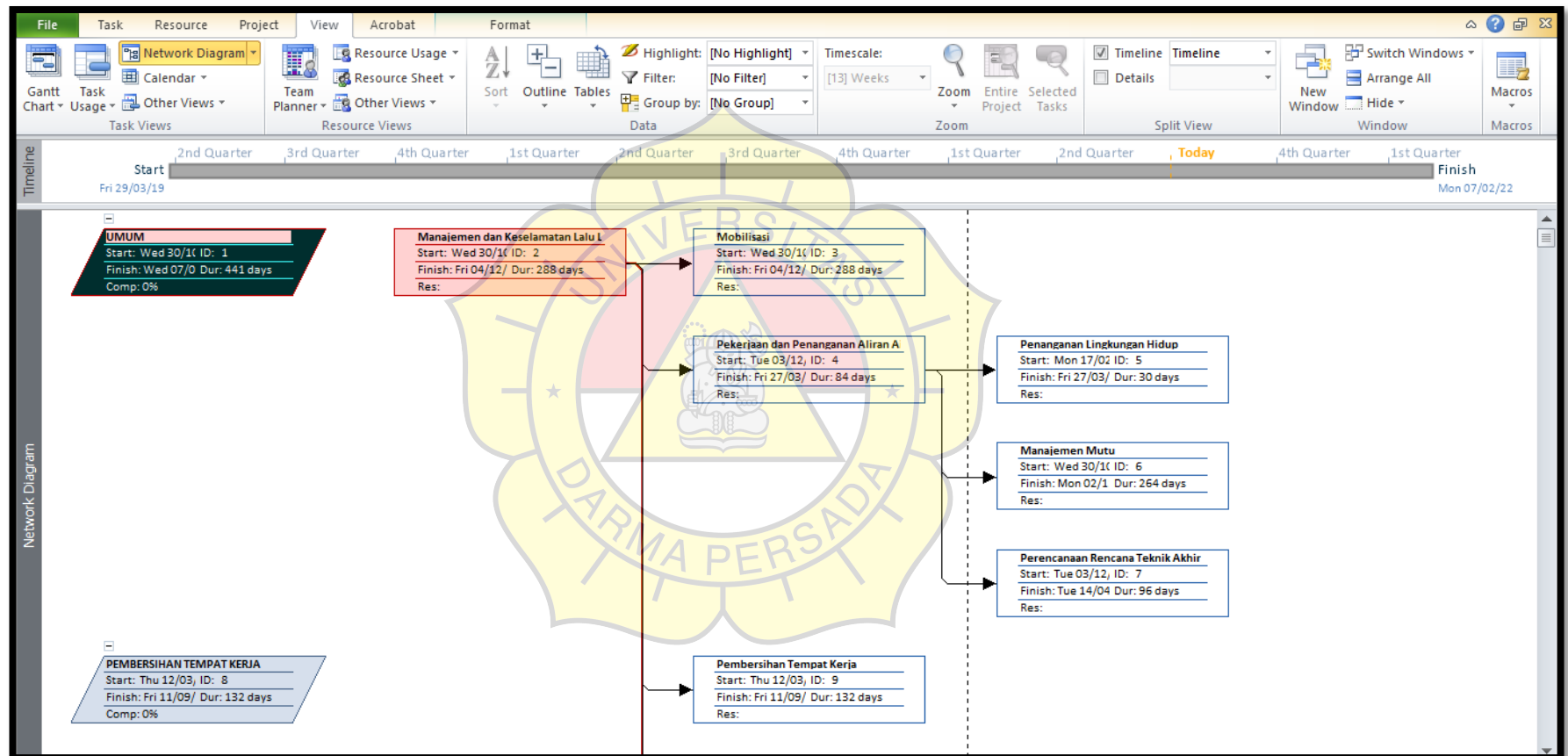
DIV 10	STRUKTUR BETON				
10.01(4a)	Beton Struktur Kelas B-1-1a (Lantai Beton Bertulang dari Gelagar Beton Pratekan U/I)	m3	9.141,73	2.272.470,00	20.774.315.126,75
10.01(5)	Beton Struktur Kelas B-1-2 (Diafragma dari Gelagar Beton Pratekan U/I)	m3	1.610,89	4.475.780,00	7.209.978.054,75
10.01(5a)	Beton Struktur Kelas B-1-3 (Kepala Pier Beton Bertulang)	m3	3.762,47	2.583.820,00	9.721.545.235,40
10.01(7f)	Beton Struktur Kelas B-1-4f (Kolom Beton Bertulang dari Pier)	m3	15.580,79	2.815.110,00	43.861.625.350,42
10.01(9)	Beton Struktur Kelas B-1-6 (Beton Penghalang/ Barrier)	m3	2.748,45	3.003.540,00	8.255.070.502,38
10.01.(10)	Beton Struktur Kelas C-1 (Abutment, Telapak Pier, Dinding Penahan Tanah, Pelat Injak, Kotak Tanam)	m3	35.111,15	2.288.880,00	80.365.219.617,53
10.01.(11)	Beton Struktur Kelas C-2 (Gorong-gorong Kotak)	m3	9.594,60	2.528.720,00	24.262.056.912,00
10.01(12)	Beton Struktur Kelas C-4 (Pelat Pracetak untuk Lantai Jembatan)	m3	631,95	3.114.670,00	1.968.323.044,66
10.01.(13)	Beton Struktur Kelas D	m3	6.288,47	1.672.900,00	10.519.973.098,50
10.01.(14)	Beton Struktur kelas E	m3	4.704,66	1.447.230,00	6.808.722.052,62
10.02.(2)	Batang Baja Tulangan Ulir BJTD - 40	kg	10.972.926,38	15.950,00	175.018.175.694,15
10.03 (20a1)	Gelagar PC-I bentang nominal 15,0m to 17,0m, H= 0,90m, penyediaan	bh	12,00	126.739.550,00	1.520.874.600,00
10.03 (20a2)	Gelagar PC-I bentang nominal 15,0m to 17,0m, H= 0,90m, pemasangan	bh	12,00	29.349.330,00	352.191.960,00
10.03(14a)	Gelagar PC-I bentang nominal 25,0m to 27,00m, H= 1,60m, penyediaan	bh	32,00	232.663.040,00	7.445.217.280,00
10.03(14b)	Gelagar PC-I bentang nominal 25,0m to 27,00m, H= 1,60m, pemasangan	bh	32,00	34.610.540,00	1.107.537.280,00
10.03.(15a)	Gelagar PC - I CTC 2,4 m Bentang Nominal 30,00 m to 32,00 m H=1,70m, Penyediaan	bh	70,00	281.495.650,00	19.704.695.500,00
10.03.(15b)	Gelagar PC - I CTC 2,4 m Bentang Nominal 30,00 m to 32,00 m H=1,70m, Pemasangan	bh	70,00	43.995.240,00	3.079.666.800,00
10.03.(16b1)	Gelagar PC - I CTC 2,4 m Bentang Nominal 39,00 m to 41,00 m H=2,10m , Penyediaan	bh	10,00	618.054.600,00	6.180.546.000,00
10.03.(16b2)	Gelagar PC - I CTC 2,4 m Bentang Nominal 39,00 m to 41,00 m H=2,10m , Pemasangan	bh	10,00	77.882.620,00	778.826.200,00
10.03 (16b3)	Gelagar PC-I bentang nominal 45,0m, H=2,10m, penyediaan	bh	10,00	723.867.250,00	7.238.672.500,00
10.03 (16b4)	Gelagar PC-I bentang nominal 45,0m, H=2,10m, pemasangan	bh	10,00	90.087.550,00	900.875.500,00
10.05.(1)	Penyediaan Tiang Pancang Beton Bulat Pretensioned, dia 60 cm	m1	57.443,00	1.762.770,00	101.258.797.110,00
10.05.(2)	Pemancangan Tiang Pancang Beton Bulat Pretensioned, dia 60 cm	m1	55.590,00	381.170,00	21.189.240.300,00
10.05.(2)a	Pre- Boring Tiang Pancang Bulat Pretensioned, dia. 60	m1	3.640,00	299.110,00	1.088.760.400,00
10.05 (7)	Pengujian Pembebanan Dinamis untuk tiang pancang beton bulat pre- tensioned, dia. 50 – 60 cm	titik	70,00	17.250.000,00	1.207.500.000,00
10.05 (10)	Penyediaan Tiang Pancang Mini Pile 20 x 20 cm	m1	8.202,00	365.830,00	3.000.537.660,00
10.05 (11)	Pemancangan Tiang Pancang Mini Pile 20 x 20 cm	m1	8.202,00	74.050,00	607.358.100,00
10.10(1a)	Sambungan Ekspansi Strip Seal Joint tipe light duty (≤80 mm)	m1	203,20	4.716.300,00	958.352.160,00
10.10(1b)	Sambungan Ekspansi Strip Seal Joint tipe light duty (≤50 mm)	m1	836,40	3.911.300,00	3.271.411.320,00
10.11(14)	Elastomeric Bearing Pad 650 x 650 x 52 (Fix)	bh	-	6.207.380,00	-
10.11(15)	Elastomeric Bearing Pad 650 x 650 x 52 (Mov)	bh	-	6.207.380,00	-
10.11(25)	Rubber Bearing Sheet 200 x 200 x 20	bh	752,00	344.240,00	258.868.480,00
10.11(27)	Anchor Bar dengan Perlengkapannya	kg	9.200,76	27.760,00	255.412.993,50
10.11 (45)	Elastomeric Bearing Pad 480mmx300mmx51mm (Fix)	bh	24,00	4.881.100,00	117.146.400,00
10.11 (45a)	Elastomeric Bearing Pad 480mmx300mmx51mm (Move)	bh	24,00	4.881.100,00	117.146.400,00
10.11 (46)	Elastomeric Bearing Pad 600mmx450mmx77mm (Fix)	bh	102,00	5.302.600,00	540.865.200,00
10.11 (46a)	Elastomeric Bearing Pad 600mmx450mmx77mm (Move)	bh	102,00	5.302.600,00	540.865.200,00
10.11 (47)	Elastomeric Bearing Pad 600mmx450mmx86mm (Fix)	bh	10,00	6.952.890,00	69.528.900,00
10.11 (47a)	Elastomeric Bearing Pad 600mmx450mmx86mm (Move)	bh	10,00	6.952.890,00	69.528.900,00
10.12(1)	Pipa Drainase D=20cm dengan perlengkapan dan dukungan	M1	3.588,42	600.920,00	2.156.350.942,72
10.12(2)	Pipa Drainase D=15cm dengan perlengkapan dan dukungan	M1	234,00	434.170,00	101.595.780,00
10.12(3)	Deck Drain Tipe 1 dengan perlengkapan	Bh	1.230,00	967.480,00	1.190.000.400,00
10.14	Cerucuk Kayu Gelam	m1	14.523,47	31.470,00	457.053.496,00

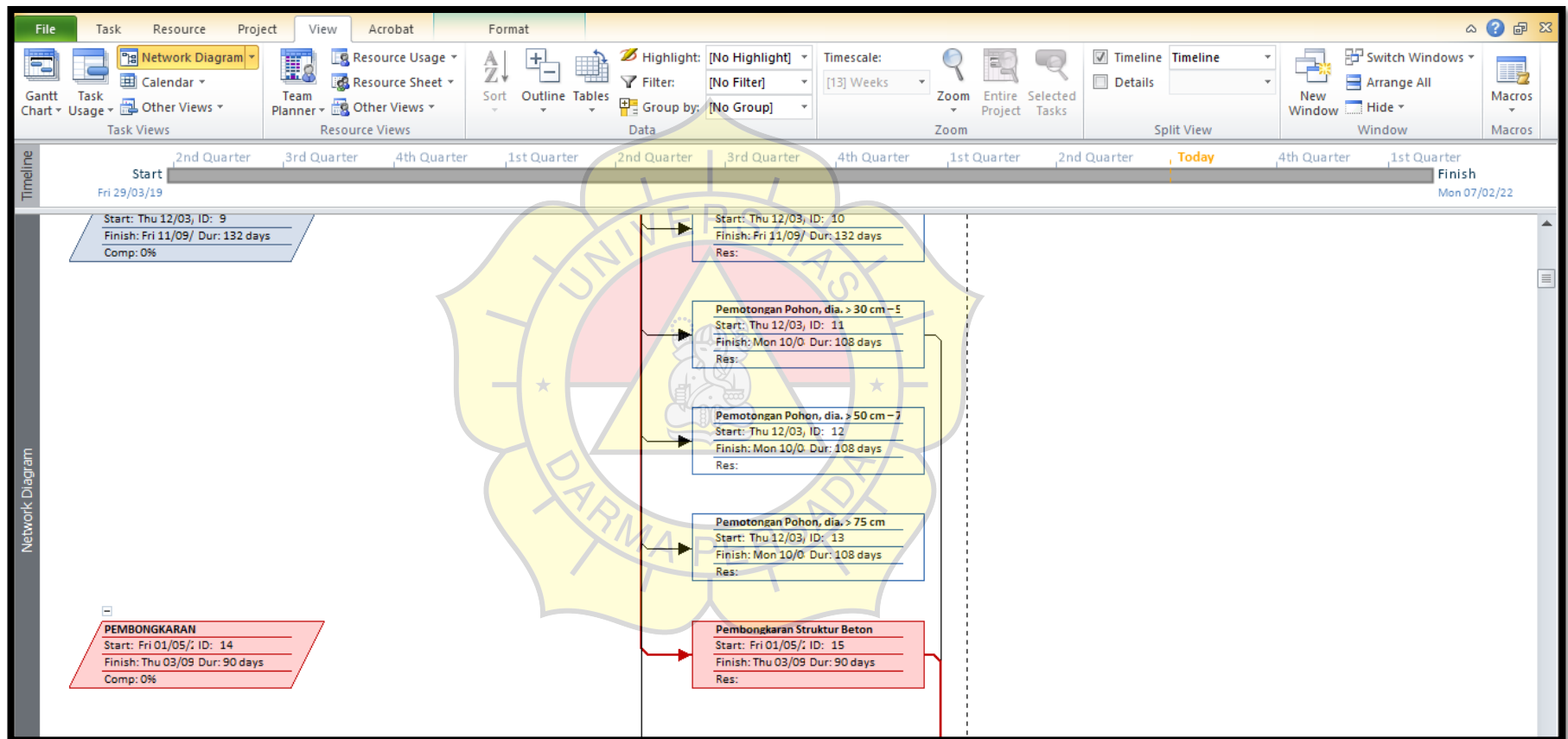
DIV 12	PEKERJAAN LAIN-LAIN				
12.01 (1)	Solid Sodding	M2	1.120.370,66	24.940,00	27.942.044.260,40
12.02 (3)	Pasangan Batu Kali Tipe C	M3	3.071,56	972.960,00	2.988.505.045,40
12.05 (5)	Pasangan Batu dengan Mortar DS.5	M3	23.732,43	1.211.590,00	28.753.968.805,75
12.05 (7)	Pasangan Batu dengan Mortar untuk Inlet dan Outlet	M3	8.210,00	1.189.590,00	9.766.532.628,39
12.06 (1)	Guardrail Kendaraan Tipe A	M1	79.660,00	734.770,00	58.531.778.200,00
12.06 (11)	Bagian Ujung Guardrail	Bh	24,00	505.230,00	12.125.520,00
12.06 (12)	Chainlink Fence	Bh	888,00	2.300.000,00	2.042.400.000,00
12.07 (1)	Rambu Pengaturan dan Peringatan, Tipe A - 1	Bh	116,00	3.565.000,00	413.540.000,00
12.07 (2)	Rambu Pengaturan dan Peringatan, Tipe A - 2	Bh	32,00	4.945.000,00	158.240.000,00
12.07 (3)	Rambu Pengaturan dan Peringatan, Tipe B - 1	Bh	58,00	3.450.000,00	200.100.000,00
12.07 (4)	Rambu Pengaturan dan Peringatan, Tipe B - 2	Bh	69,00	4.025.000,00	277.725.000,00
12.07 (5)	Rambu Pengaturan dan Peringatan, Tipe C-1	Bh	35,00	3.507.500,00	122.762.500,00
12.08 (1)	Rambu Petunjuk Tipe A-1	Bh	12,00	26.795.000,00	321.540.000,00
12.08 (2)	Rambu Petunjuk Tipe A-2	Bh	12,00	28.405.000,00	340.860.000,00
12.08 (3)	Rambu Petunjuk Tipe A-3	Bh	12,00	29.900.000,00	358.800.000,00
12.08 (4)	Rambu Petunjuk Tipe A-4	Bh	12,00	37.352.000,00	448.224.000,00
12.08 (8)	Rambu Petunjuk Tipe B-1	Bh	32,00	83.743.000,00	2.679.776.000,00
12.08 (9)	Rambu Petunjuk Tipe B-2	Bh	8,00	122.105.850,00	976.846.800,00
12.08 (10)	Rambu Petunjuk Tipe C	M2	16,00	121.578.000,00	1.945.248.000,00
12.08 (11)	Rambu Petunjuk Tipe D	M2	2,00	239.395.500,00	478.791.000,00
12.09 (1)	Marka Jalan, Tipe A (Penerapan Umum)	M2	28.322,31	213.200,00	6.038.316.000,00
12.09 (2)	Marka Jalan, Tipe A (Penerapan Khusus)	Bh	16,00	213.200,00	3.411.200,00
12.09 (4)	Marka Pengaduh (Rumble Strip)	Bh	60,00	671.640,00	40.298.400,00
12.10(1)	Delineator tipe A	M1	8.000,00	172.500,00	1.380.000.000,00
12.10(2)	Delineator tipe B	M1	91,25	115.000,00	10.493.750,00
12.12 (1)	Kerb Beton, Tipe A	M1	3.352,20	195.500,00	655.355.100,00
12.13	Conblock t = 10 cm	m2	13.619,15	212.750,00	2.897.474.800,75
12.14	Tangga	M1	122,00	2.127.500,00	259.555.000,00
12.15 (1)	Concrete Barrier, tipe - A	Bh	79.768,00	1.757.090,00	140.159.555.120,00
12.17 (1)	Semak untuk Kotak Tanaman Tipe 1	bh	1.600,00	5.666.370,00	9.066.192.000,00
12.17 (2)	Semak untuk Kotak Tanaman Tipe 2	bh	20,00	5.838.870,00	116.777.400,00
12.17 (3)	Nyemplung (Calophyllum Inophyllum)	bh	40,00	225.000,00	9.000.000,00
12.17 (4)	Ketapang(Terminalia Cattapa)	bh	40,00	225.000,00	9.000.000,00
12.17 (5)	Bungur (Lagersstroemia Indica)	bh	150,00	225.000,00	33.750.000,00
12.17 (6)	Bintaro (Cerbera Oddlam)	bh	100,00	225.000,00	22.500.000,00
12.17 (7)	Waru Laut (Hibiscus Tillaceus)	bh	100,00	225.000,00	22.500.000,00
12.17 (8)	Mahoni (Swietenia Mahagoni)	bh	20,00	225.000,00	4.500.000,00
12.17 (9)	Akasia Daun Lebar	bh	150,00	225.000,00	33.750.000,00
12.17 (10)	Biola Cantik	bh	20,00	225.000,00	4.500.000,00
12.17 (11)	Butterfly Buah	bh	20,00	225.000,00	4.500.000,00
12.17.(12)	Dadap Merah (Erythrina Oristagal)	bh	20,00	225.000,00	4.500.000,00
12.17.(13)	Kelapa Sawit (Elais Guineensis)	bh	200,00	585.000,00	117.000.000,00
12.17.(14)	Trembesi (Samanea Saman)	bh	20,00	225.000,00	4.500.000,00
12.17.(15)	Jati mas	bh	20,00	225.000,00	4.500.000,00
12.17 (16)	Bougenville (Bunga Kertas)	bh	1.856,00	225.000,00	417.600.000,00
12.17 (17)	Tanaman Tabebuia	bh	2.000,00	287.500,00	575.000.000,00
12.17 (18)	Hydroseeding	m2	79.800,00	147.551,50	11.774.609.700,00
12.17 (18a)	Grass Block	m2	12.000,00	227.750,00	2.733.000.000,00
12.19.(1)	Patok Pengarah, Tipe A	bh	366,00	218.500,00	79.971.000,00
12.19.(2)	Patok Pengarah, Tipe B	bh	170,00	115.000,00	19.550.000,00
12.19 (3)	Patok Rumija, Tipe A	bh	3.200,00	316.250,00	1.012.000.000,00
12.19 (4)	Patok Rumija, Tipe B	Bh	20,00	373.750,00	7.475.000,00
12.19.(5)	Patok Kilometer	bh	200,00	2.070.000,00	414.000.000,00
12.20.(1)	Pagar RUMJA, Tipe 1 (Panel Beton)	m1	7.040,00	846.170,00	5.957.036.800,00
12.20.(2)	Pagar RUMJA, Tipe 2 (Kawat Berduri)	m1	78.390,00	260.430,00	20.415.107.700,00
12.23	Bronjong	m3	1.099,62	983.060,00	1.080.994.403,32

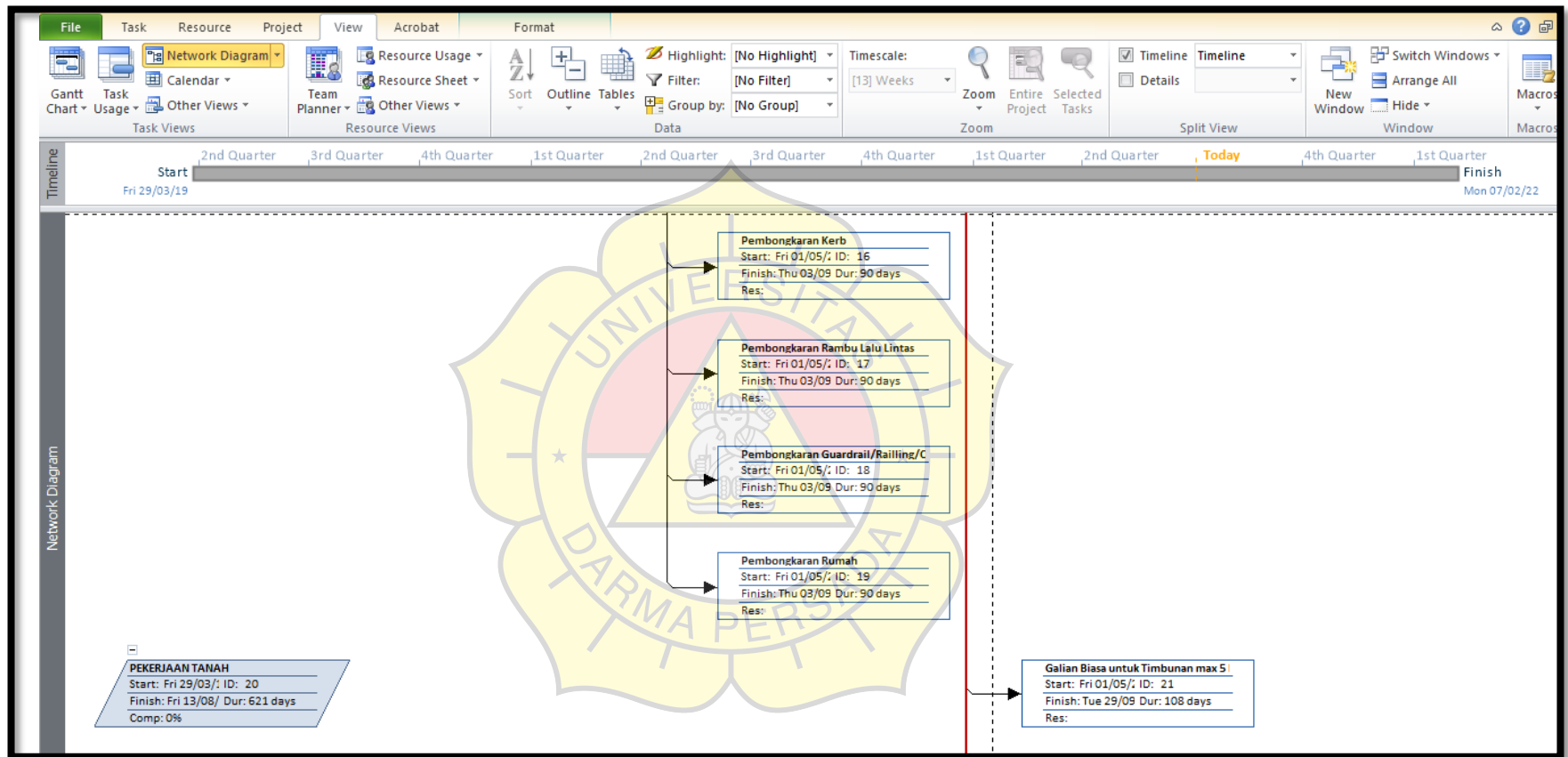
DIV 13	PENCAHAYAAN LAMPU LALU LINTAS DAN PEKERJAAN LISTRIK		1,00	16.674.488.872,00	16.674.488.872,00
DIV 14	PLAZA TOL		1,00	6.398.330.943,07	6.398.330.943,07
DIV 15	PENGALIHAN DAN PERLINDUNGAN UTILITAS YANG ADA		1,00	7.000.000.000,00	7.000.000.000,00
DIV 16	KANTOR DAN FASILITAS TOL		1,00	7.873.249.052,07	7.873.249.052,07
	Total				#####

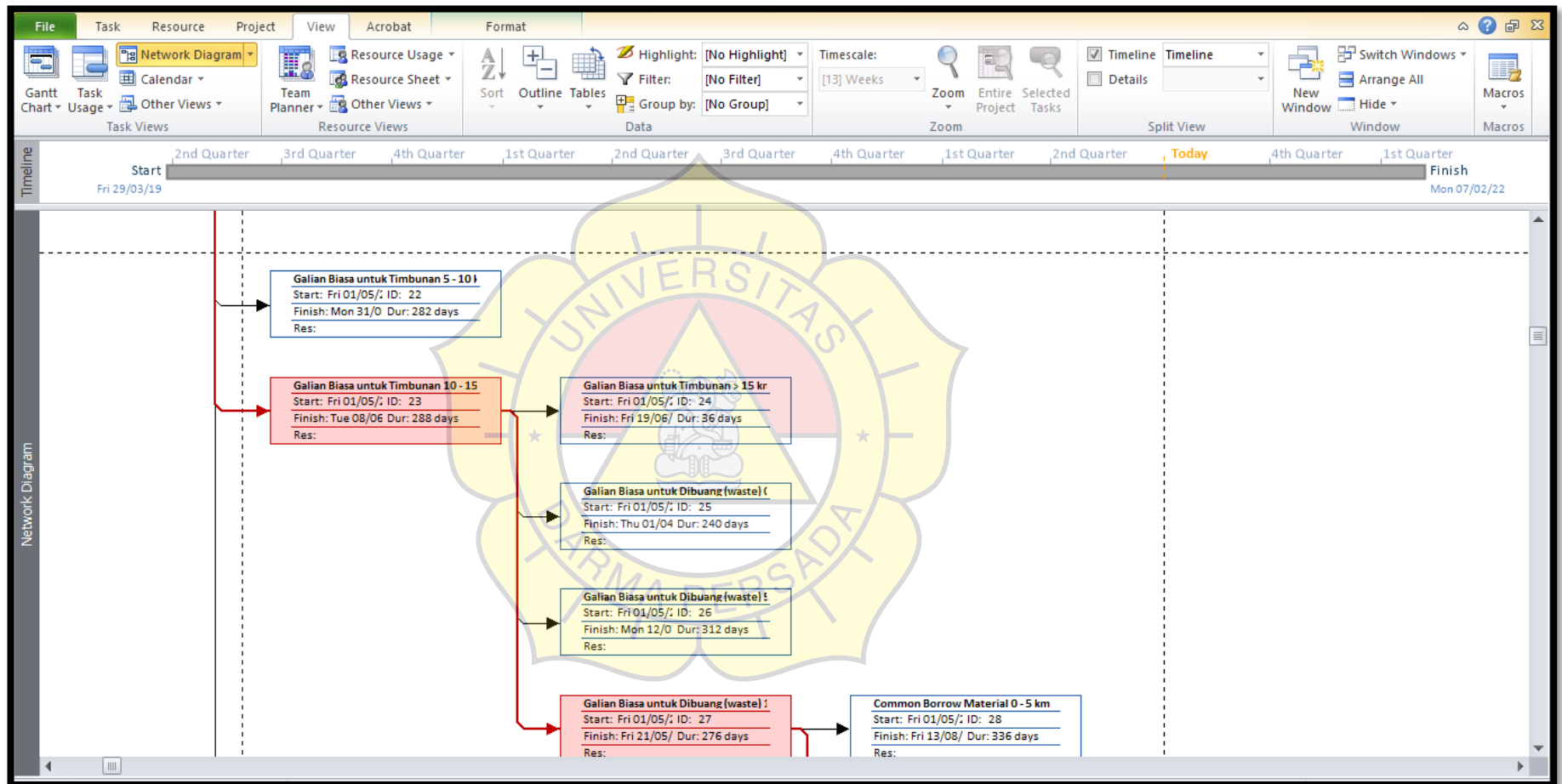


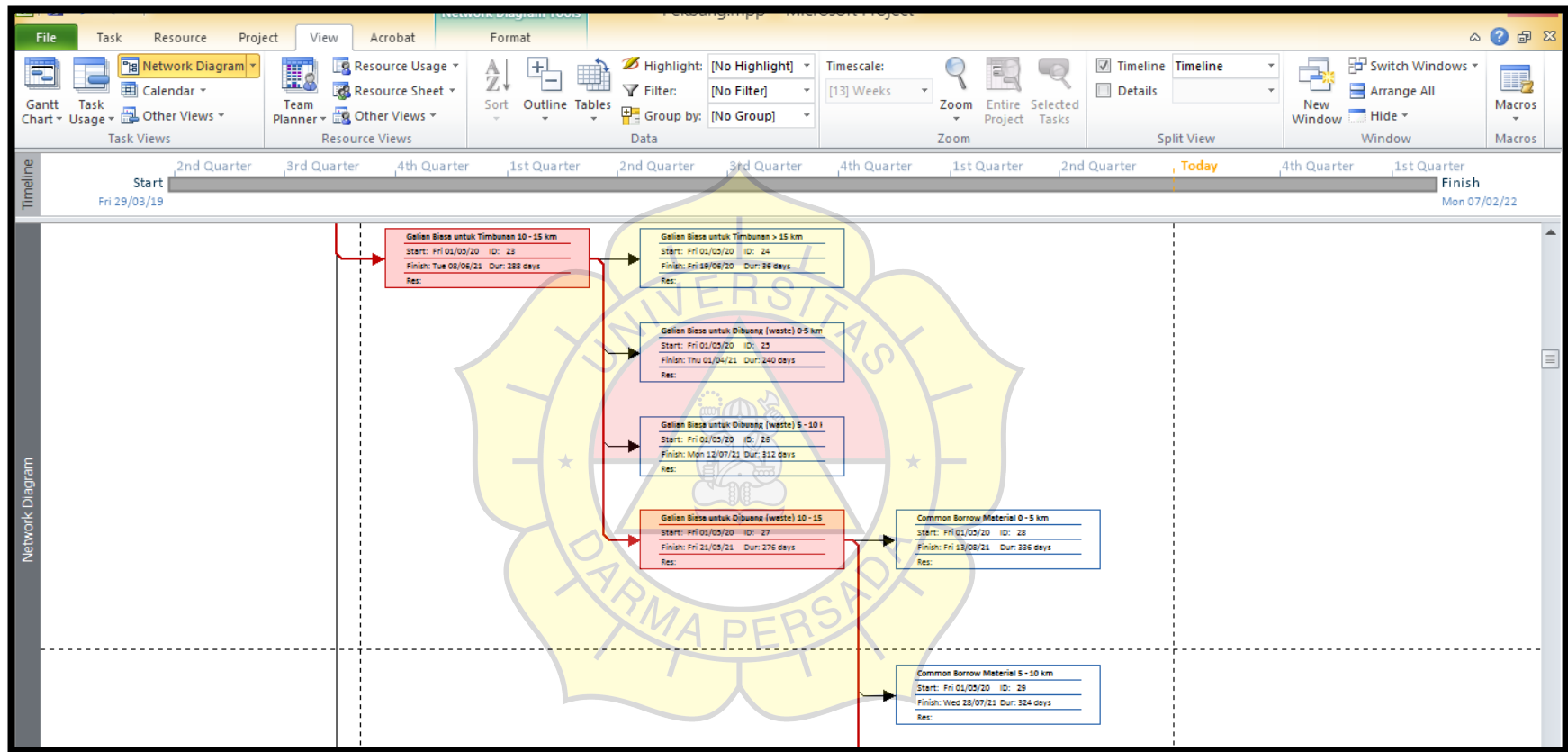
Lampiran 2

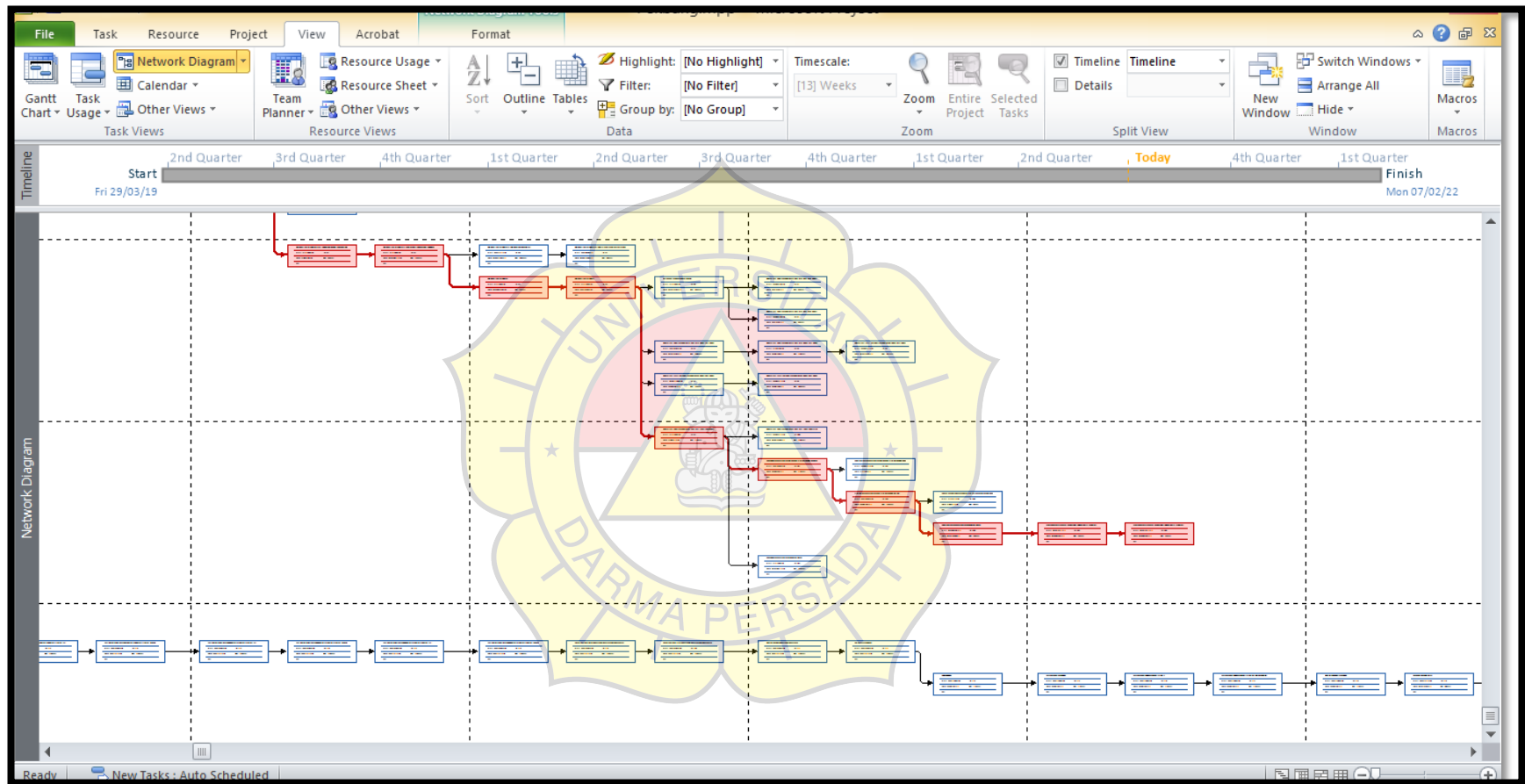








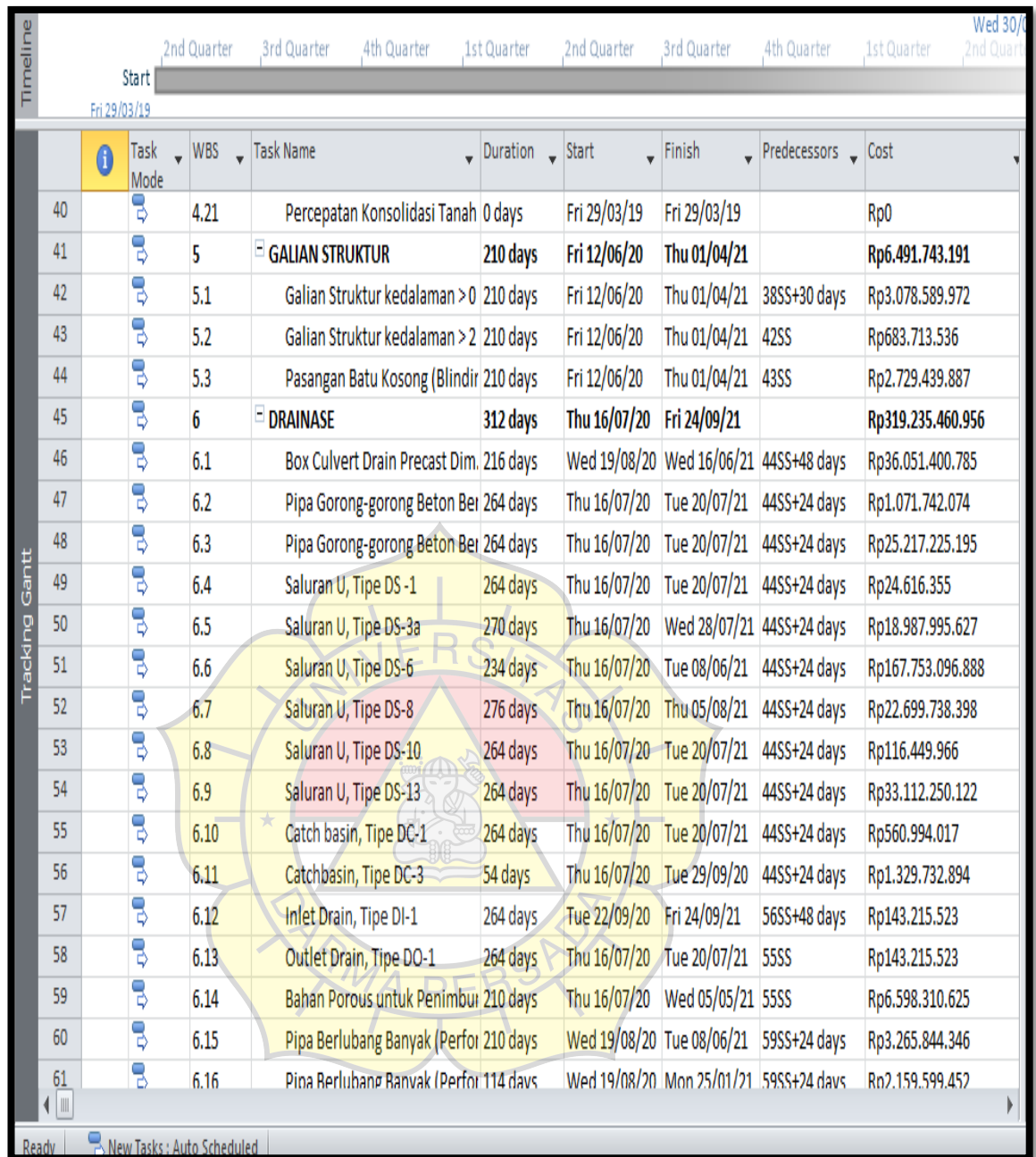




Lampiran 3

Timeline									
Start									
Fri 29/03/19									
	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Cost	
1		1	UMUM	441 days	Wed 30/10/19	Wed 07/07/21		Rp60.720.650.649	
2		1.1	Manajemen dan Keselamatan	288 days	Wed 30/10/19	Fri 04/12/20		Rp15.423.527.976	
3		1.2	Mobilisasi	288 days	Wed 30/10/19	Fri 04/12/20	2SS	Rp33.527.289.610	
4		1.3	Pekerjaan dan Penanganan Ali	84 days	Tue 03/12/19	Fri 27/03/20	2SS+24 days	Rp398.159.994	
5		1.4	Penanganan Lingkungan Hidup	30 days	Mon 17/02/20	Fri 27/03/20	4FF	Rp989.000.007	
6		1.5	Manajemen Mutu	264 days	Wed 30/10/19	Mon 02/11/20	4FF	Rp965.999.984	
7		1.6	Perencanaan Rencana Teknik	96 days	Tue 03/12/19	Tue 14/04/20	4SS	Rp9.416.668.610	
8		2	PEMBERSIHAN TEMPAT KERJA	132 days	Thu 12/03/20	Fri 11/09/20		Rp37.015.034.265	
9		2.1	Pembersihan Tempat Kerja	132 days	Thu 12/03/20	Fri 11/09/20	2SS+96 days	Rp30.006.866.083	
10		2.2	Pemotongan Pohon, dia. > 30	108 days	Thu 12/03/20	Mon 10/08/20	2SS+96 days	Rp4.552.156.119	
11		2.3	Pemotongan Pohon, dia. > 50	108 days	Thu 12/03/20	Mon 10/08/20	2SS+96 days	Rp2.305.534.361	
12		2.4	Pemotongan Pohon, dia. > 75	108 days	Thu 12/03/20	Mon 10/08/20	2SS+96 days	Rp150.475.202	
13		3	PEMBONGKARAN	90 days	Fri 01/05/20	Thu 03/09/20		Rp3.466.339.942	
14		3.1	Pembongkaran Struktur Beton	90 days	Fri 01/05/20	Thu 03/09/20	2SS+132 days	Rp1.382.832.046	
15		3.2	Pembongkaran Kerb	90 days	Fri 01/05/20	Thu 03/09/20	2SS+132 days	Rp11.809.999	
16		3.3	Pembongkaran Rambu Lalu Lir	90 days	Fri 01/05/20	Thu 03/09/20	2SS+132 days	Rp8.755.680	
17		3.4	Pembongkaran Guardrail/Rail	90 days	Fri 01/05/20	Thu 03/09/20	2SS+132 days	Rp6.543.840	
18		3.5	Pembongkaran Rumah	90 days	Fri 01/05/20	Thu 03/09/20	2SS+132 days	Rp2.056.398.438	
19		4	PEKERJAAN TANAH	621 days	Fri 29/03/19	Fri 13/08/21		Rp839.328.884.326	
20		4.1	Galian Biasa untuk Timbunan	108 days	Fri 01/05/20	Tue 29/09/20	14SS	Rp53.229.109.903	
21		4.2	Galian Biasa untuk Timbunan	282 days	Fri 01/05/20	Mon 31/05/21	14SS	Rp19.477.815.623	
22		4.3	Galian Biasa untuk Timbunan	1288 days	Fri 01/05/20	Tue 08/06/21	14SS	Rp997.745.131	

Timeline	2nd Quarter3rd Quarter4th Quarter1st Quarter2nd Quarter3rd Quarter4th Quarter1st Quarter2nd Quarter									Wed 30/0
	Start									
Fri 29/03/19										
Tracking Gantt		Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Cost	
		4	PEKERJAAN TANAH	621 days	Fri 29/03/19	Fri 13/08/21		Rp839.328.884.326		
		4.1	Galian Biasa untuk Timbunan r	108 days	Fri 01/05/20	Tue 29/09/20	14SS	Rp53.229.109.903		
		4.2	Galian Biasa untuk Timbunan s	282 days	Fri 01/05/20	Mon 31/05/21	14SS	Rp19.477.815.623		
		4.3	Galian Biasa untuk Timbunan 1	288 days	Fri 01/05/20	Tue 08/06/21	14SS	Rp997.745.131		
		4.4	Galian Biasa untuk Timbunan >	36 days	Fri 01/05/20	Fri 19/06/20	22SS	Rp55.779.599		
		4.5	Galian Biasa untuk Dibuang (w	240 days	Fri 01/05/20	Thu 01/04/21	22SS	Rp85.874.882.641		
		4.6	Galian Biasa untuk Dibuang (w	312 days	Fri 01/05/20	Mon 12/07/21	22SS	Rp56.523.090.821		
		4.7	Galian Biasa untuk Dibuang (w	276 days	Fri 01/05/20	Fri 21/05/21	22SS	Rp2.714.390.855		
		4.8	Common Borrow Material 0 - 5	336 days	Fri 01/05/20	Fri 13/08/21	26SS	Rp280.970.699.735		
		4.9	Common Borrow Material 5 - 1	324 days	Fri 01/05/20	Wed 28/07/21	26SS	Rp203.337.823.682		
		4.10	Common Borrow Material 10 -	258 days	Fri 01/05/20	Tue 27/04/21	26SS	Rp21.160.642.478		
		4.11	Common Borrow Material 15 -	258 days	Fri 01/05/20	Tue 27/04/21	26SS	Rp12.547.720.478		
		4.12	Common Borrow Material 20 -	192 days	Fri 01/05/20	Mon 25/01/21	26SS	Rp2.921.347.481		
		4.13	Common Borrow Material > 25	192 days	Fri 01/05/20	Mon 25/01/21	26SS	Rp1.568.158.023		
		4.14	Selected Borrow Material	258 days	Fri 01/05/20	Tue 27/04/21	32SS	Rp2.460.279.767		
		4.15	Urugan Material Berbutir (Gra	258 days	Fri 01/05/20	Tue 27/04/21	32SS	Rp42.333.123.379		
		4.16	Geotekstil Filter untuk Drainas	108 days	Fri 01/05/20	Tue 29/09/20	32SS	Rp2.574.000		
		4.17	Geotekstil Separator (Kelas 1)	54 days	Fri 01/05/20	Wed 15/07/20	32SS	Rp44.519.894.548		
		4.18	Geotekstil Separator (Kelas 3)	24 days	Fri 01/05/20	Wed 03/06/20	32SS	Rp556.851.650		
		4.19	Geotekstile Woven 100 kN	24 days	Fri 01/05/20	Wed 03/06/20	32SS	Rp8.076.848.005		
		4.20	Common Borrow Material Pre	0 days	Fri 29/03/19	Fri 29/03/19		Rp0		
		4.21	Perencanaan Konsolidasi Tanah	0 days	Fri 29/03/19	Fri 29/03/19		Rn0		



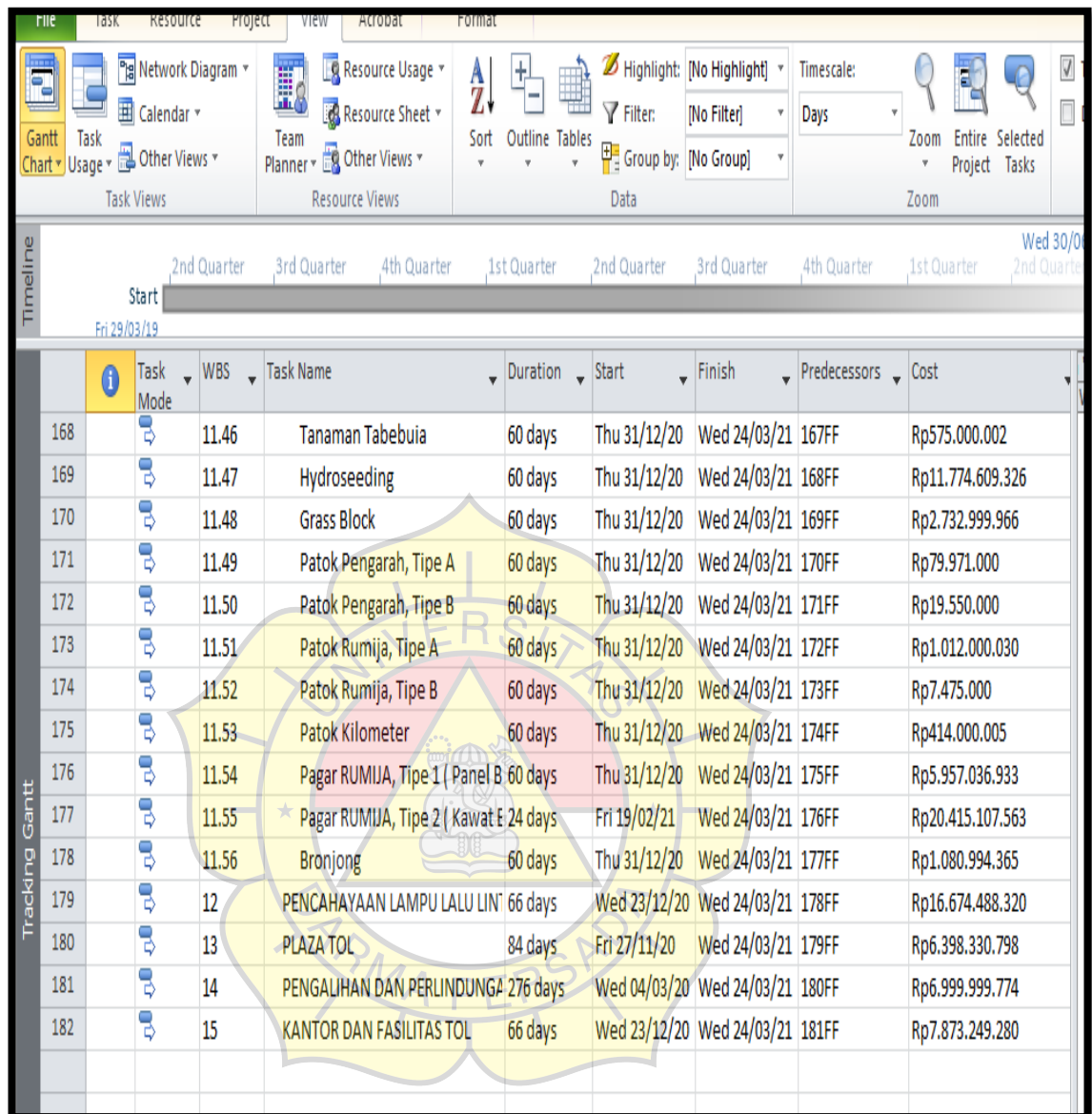
Time		Start							
		Fri 29/03/19							
	i	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Cost
62			7	PENYIAPAN TANAH DASAR	300 days	Fri 01/05/20	Thu 24/06/21		Rp7.546.845.921
63			7.1	Persiapan Tanah Dasar	300 days	Fri 01/05/20	Thu 24/06/21	36SS	Rp7.546.845.921
64			8	LAPIS PONDASI AGREGAT	360 days	Fri 12/06/20	Thu 28/10/21		Rp131.836.181.217
65			8.1	Lapis Pondasi Agregat Kelas A	360 days	Fri 12/06/20	Thu 28/10/21	63SS+30 days	Rp126.825.424.486
66			8.2	Lapis Pondasi Agregat Kelas B	294 days	Fri 12/06/20	Wed 28/07/21	65SS	Rp5.010.755.420
67			9	PERKERASAN	156 days	Mon 18/01/21	Mon 23/08/21		Rp821.947.604.664
68			9.1	Bitumen Lapis Resap Pengikat	78 days	Mon 18/01/21	Wed 05/05/21	66SS+156 days	Rp647.220.019
69			9.2	Bitumen Lapis Perekat (Tack C	78 days	Mon 18/01/21	Wed 05/05/21	68SS	Rp695.744.757
70			9.3	Asphalt Concreata Base Course	78 days	Mon 18/01/21	Wed 05/05/21	68SS	Rp1.156.017.848
71			9.4	Asphalt Concrete Binder Cour	78 days	Mon 18/01/21	Wed 05/05/21	68SS	Rp10.355.424.624
72			9.5	Asphalt Concrete Wearing Cou	78 days	Mon 18/01/21	Wed 05/05/21	68SS	Rp5.633.231.421
73			9.6	Aspal Pen.60/70	126 days	Mon 18/01/21	Mon 12/07/21	68SS	Rp17.967.909.437
74			9.7	Perkerasan Beton	156 days	Mon 18/01/21	Mon 23/08/21	68SS	Rp627.606.500.147
75			9.8	Perkerasan Beton, Double Wir	156 days	Mon 18/01/21	Mon 23/08/21	68SS	Rp7.635.044.925
76			9.9	Perkerasan Beton, Single Wire	156 days	Mon 18/01/21	Mon 23/08/21	68SS	Rp8.210.916.311
77			9.10	★ Lean Concrete	156 days	Mon 18/01/21	Mon 23/08/21	68SS	Rp142.039.612.129
78			10	STRUKTUR BETON	638 days	Thu 29/08/19	Mon 07/02/22		Rp574.323.026.821
79			10.1	Beton Struktur Kelas B-1-1a (L	150 days	Mon 18/01/21	Fri 13/08/21	77SS	Rp20.774.315.622
80			10.2	Beton Struktur Kelas B-1-2 (Di	150 days	Mon 18/01/21	Fri 13/08/21	77SS	Rp7.209.977.774
81			10.3	Beton Struktur KelasB-1-3 (Ke	210 days	Fri 12/06/20	Thu 01/04/21	66SS	Rp9.721.545.359
82			10.4	Beton Struktur KelasB-1-4f (Kc	86 days	Fri 12/06/20	Fri 09/10/20	66SS	Rp43.861.624.750
83			10.5	Beton Struktur Kelas B-1-6 (Be	72 days	Mon 24/05/21	Tue 31/08/21	80SS+90 days	Rn8.255.070.535

Ready

New Tasks : Auto Scheduled

Timeline									
2nd Quarter 3rd Quarter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter 1st Quarter 2nd Quarter									
Start Fri 29/03/19									
		Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Cost
126			11.4	Pasangan Batu dengan Mortar	126 days	Tue 11/08/20	Tue 02/02/21	125FF	Rp9.766.532.546
127			11.5	Guardrail Kendaraan Tipe A	126 days	Tue 11/08/20	Tue 02/02/21	126FF	Rp58.531.779.706
128			11.6	Bagian Ujung Guardrail	60 days	Thu 31/12/20	Wed 24/03/21	127SS+102 days	Rp12.125.519
129			11.7	Chainlink Fence	60 days	Thu 31/12/20	Wed 24/03/21	128FF	Rp2.042.399.948
130			11.8	Rambu Pengaturan dan Pering	60 days	Thu 31/12/20	Wed 24/03/21	129FF	Rp413.539.983
131			11.9	Rambu Pengaturan dan Pering	60 days	Thu 31/12/20	Wed 24/03/21	130FF	Rp158.240.000
132			11.10	Rambu Pengaturan dan Pering	60 days	Thu 31/12/20	Wed 24/03/21	131FF	Rp200.100.003
133			11.11	Rambu Pengaturan dan Pering	60 days	Thu 31/12/20	Wed 24/03/21	132FF	Rp277.724.999
134			11.12	Rambu Pengaturan dan Pering	60 days	Thu 31/12/20	Wed 24/03/21	133FF	Rp122.762.496
135			11.13	Rambu Petunjuk Tipe A-1	60 days	Thu 31/12/20	Wed 24/03/21	134FF	Rp321.539.993
136			11.14	Rambu Petunjuk Tipe A-2	60 days	Thu 31/12/20	Wed 24/03/21	135FF	Rp340.860.006
137			11.15	Rambu Petunjuk Tipe A-3	60 days	Thu 31/12/20	Wed 24/03/21	136FF	Rp358.800.015
138			11.16	Rambu Petunjuk Tipe A-4	60 days	Thu 31/12/20	Wed 24/03/21	137FF	Rp448.224.010
139			11.17	Rambu Petunjuk Tipe B-1	60 days	Thu 31/12/20	Wed 24/03/21	138FF	Rp2.679.776.051
140			11.18	Rambu Petunjuk Tipe B-2	60 days	Thu 31/12/20	Wed 24/03/21	139FF	Rp976.846.766
141			11.19	Rambu Petunjuk Tipe C	60 days	Thu 31/12/20	Wed 24/03/21	140FF	Rp1.945.248.071
142			11.20	Rambu Petunjuk Tipe D	60 days	Thu 31/12/20	Wed 24/03/21	141FF	Rp478.790.983
143			11.21	Marka Jalan, Tipe A (Penerapa	60 days	Thu 31/12/20	Wed 24/03/21	142FF	Rp6.038.315.991
144			11.22	Marka Jalan, Tipe A (Penerapa	60 days	Thu 31/12/20	Wed 24/03/21	143FF	Rp3.411.200
145			11.23	Marka Pengaduh (Rumble Stri	60 days	Thu 31/12/20	Wed 24/03/21	144FF	Rp40.298.398
146			11.24	Delineator tipe A	60 days	Thu 31/12/20	Wed 24/03/21	145FF	Rp1.380.000.071
147			11.25	Delineator tipe B	60 days	Thu 31/12/20	Wed 24/03/21	146FF	Rp10.493.750

Timeline	2nd Quarter		3rd Quarter		4th Quarter		1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		1st Quarter		2nd Quarter	
	Start																	
Fri 29/03/19																		
Tracking Gantt		Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Cost									
	147		11.25	Delineator tipe B	60 days	Thu 31/12/20	Wed 24/03/21	146FF	Rp10.493.750									
	148		11.26	Kerb Beton, Tipe A	60 days	Thu 31/12/20	Wed 24/03/21	147FF	Rp655.355.084									
	149		11.27	Conblock t = 10 cm	60 days	Thu 31/12/20	Wed 24/03/21	148FF	Rp2.897.474.682									
	150		11.28	Tangga	60 days	Mon 01/07/19	Fri 20/09/19		Rp259.555.000									
	151		11.29	Concrete Barrier, tipe – A	60 days	Thu 31/12/20	Wed 24/03/21	149FF	Rp140.159.557.304									
	152		11.30	Semak untuk Kotak Tanaman T	60 days	Thu 31/12/20	Wed 24/03/21	151FF	Rp9.066.191.912									
	153		11.31	Semak untuk Kotak Tanaman T	60 days	Thu 31/12/20	Wed 24/03/21	152FF	Rp116.777.400									
	154		11.32	Nyamplung (Calophyllum Inop	60 days	Thu 31/12/20	Wed 24/03/21	153FF	Rp9.000.000									
	155		11.33	Ketapang(Terminallia Cattapa	60 days	Thu 31/12/20	Wed 24/03/21	154FF	Rp9.000.000									
	156		11.34	Bungur (Lagersloemia Indica	132 days	Tue 22/09/20	Wed 24/03/21	155FF	Rp33.750.000									
	157		11.35	Bintaro (Cerbera Oddlam)	60 days	Thu 31/12/20	Wed 24/03/21	156FF	Rp22.499.998									
	158		11.36	Waru Laut (Hibiscus Tillaceus)	60 days	Thu 31/12/20	Wed 24/03/21	157FF	Rp22.499.998									
	159		11.37	Mahoni (Swietania Mahagoni	60 days	Thu 31/12/20	Wed 24/03/21	158FF	Rp4.500.000									
	160		11.38	★Akasia Daun Lebar	60 days	Thu 31/12/20	Wed 24/03/21	159FF	Rp33.750.000									
	161		11.39	Biola Cantik	60 days	Thu 31/12/20	Wed 24/03/21	160FF	Rp4.500.000									
	162		11.40	Butterfly Buah	60 days	Thu 31/12/20	Wed 24/03/21	161FF	Rp4.500.000									
	163		11.41	Dadap Merah (Erythrina Orista	60 days	Thu 31/12/20	Wed 24/03/21	162FF	Rp4.500.000									
	164		11.42	Kelapa Sawit (Elais Guineensis	60 days	Thu 31/12/20	Wed 24/03/21	163FF	Rp116.999.997									
	165		11.43	Trembesi (Samanea Saman)	60 days	Thu 31/12/20	Wed 24/03/21	164FF	Rp4.500.000									
	166		11.44	Jati mas	60 days	Thu 31/12/20	Wed 24/03/21	165FF	Rp4.500.000									
	167		11.45	Bougenville (Bunga Kertas)	60 days	Thu 31/12/20	Wed 24/03/21	166FF	Rp417.599.979									
	168		11.46	Tanaman Tabebuia	60 days	Thu 31/12/20	Wed 24/03/21	167FF	Rn575.000.002									



Lampiran 4

Pembersihan tempat kerja					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.012	12.000,00	141
A2	Supervisor	jam	0.035	12.500,00	439
A3	Operator	jam	0.316	13.710,00	4.336
A4	Pekerja	jam	0.047	7.710,00	361
A5	Tukang	jam	0.023	8.570,00	201
B	Peralatan				
B1	Excavator	jam	0.035	357.200,00	12.552
B2	Dump Truck	jam	0.059	210.000,00	12.299
B3	Bulldozer	jam	0.011	344.900,00	3.787
B4	Chainsaw	jam	1.143	36.875,00	42.143
Nilai HSP perm3					76.435
Total Nilai Kontrak					37.015.031.439
Galian struktur					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Supervisor	jam	0.023	15.000,00	351
A2	Surveyor	jam	0.035	12.500,00	439
A3	Operator	jam	0.316	13.710,00	4.336
A4	Pekerja	jam	0.070	7.710,00	542
A5	Mandor	jam	0.012	8.570,00	100
B	Peralatan				
B1	Excavator	jam	0.047	357.200,00	16.736
B2	Dump Truck	jam	0.131	210.000,00	27.513
B3	Bulldozer	jam	0.020	344.900,00	691
Nilai HSP perm3					56.928
Total Nilai Kontrak					6.491.743.352

Pekerjaan Tanah					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.005	12.000,00	63
A2	Supervisor	jam	0.010	15.000,00	157
A3	Surveyor	jam	0.016	12.500,00	196
A4	Operator	jam	0.235	13.710,00	3.226
A5	Pekerja	jam	0.031	7.710,00	242
B	Peralatan				
B1	Excavator	jam	0.012	357.200,00	4.184
B2	Dump Truck	jam	0.066	210.000,00	13.757
B3	Water Tanker	jam	0.022	153.500,00	3.452
B4	Motor Grader	jam	0.22	415.900	9.279
B5	Vibro Roller	jam	0.010	365.300,00	3.820
Nilai HPS perm3					38.377
Total Nilai Kontrak					839.328.776.118
Penyiapan Tanah Dasar					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.005	12.000,00	63
A2	Supervisor	jam	0.010	15.000,00	157
A3	Surveyor	jam	0.016	12.500,00	196
A4	Operator	jam	0.235	13.710,00	3.226
A5	Pekerja	jam	0.031	7.710,00	242
B	Peralatan				
B1	Excavator	jam	0.012	357.200,00	4.184
B2	Dump Truck	jam	0.066	210.000,00	13.757
B3	Water Tanker	jam	0.022	153.500,00	3.452
B4	Motor Grader	jam	0.22	415.900	9.279
B5	Vibro Roller	jam	0.010	365.300,00	3.820
C	Bahan				
C1	Borrow	m3	1200	11.570,00	13.884
Nilai HPS per m3					66.166
Total Nilai Kontrak					7.546.845.600

Lapis Pondasi Agregat					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.012	12.000,00	141
A2	Supervisor	jam	0.012	15.000,00	176
A3	Pekerja	jam	0.070	7.710,00	542
A4	Operator	jam	0.515	13.710,00	7.066
B	Peralatan				
B1	Excavator	jam	0.023	357.200,00	8.368
B2	Dump Truck	jam	0.173	210.000,00	36.404
B3	Water Tanker	jam	0.022	153.500,00	3.452
B4	Motor Grader	jam	0.077	415.900,00	2.784
B5	Vibro Roller	jam	0.010	365.300,00	38.210
C	Bahan				
C1	LPA kelas A	m3	1000	135.450,00	135.450
Nilai HPS per m3					198.203
Total Nilai Kontrak					131.836.178.160
Struktur Beton					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.027	12.000,00	321
A2	Tukang	jam	0.107	8.570,00	918
A3	Pekerja	jam	0.214	7.710,00	1.651
A4	Supervisor	jam	0.027	15.000,00	402
A5	Surveyor	jam	0.107	12.500,00	1.339
A6	Operator	jam	0.214	13.710,00	2.937
B	Peralatan				
B1	Concrete Vibrator	jam	0.044	18.700,00	416
B2	Truck Mixer	jam	0,276	286.300,00	19.779
B3	Batching Plant	jam	0.022	859.000,00	19.089
C	Bahan				
C1	Beton Kelas E	m3	1000	493.500,00	493.500
Nilai HPS per m3					540.351
Total Nilai Kontrak					575.530.428.451

Perkerasan					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.027	12.000,00	321
A2	Tukang	jam	0.107	8.570,00	918
A3	Pekerja	jam	0.214	7.710,00	1.651
A4	Supervisor	jam	0.027	15.000,00	402
A5	Surveyor	jam	0.107	12.500,00	1.339
A6	Operator	jam	0.884	13.710,00	12.113
B	Peralatan				
B1	Concrete Paver	jam	0.022	1.236.600,00	27.590
B2	Dump Truck	jam	0,784	210.000,00	164.735
B3	Batching Plant	jam	0.027	859.000,00	22.999
B4	Truck Mixer	jam	1.104	286.300,00	316.075
C	Bahan				
C1	Beton Kelas P	m3	1.000	653.400,00	653.400
C2	Plastic Sheet	m3	1.050	2.633	2.765
C3	Sealent	kg	0.245	5.375	1.317
C4	Curing Component	kg	0.150	5.912	887
C5	Geotextile	m2	1.000	16.200	16.200
Nilai HPS per m3					1.222.712
Total Nilai Kontrak					821.947.624.275

Drainase					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.010	12.000,00	321
A2	Pekerja	jam	0.020	7.710,00	1.651
A3	Tukang Besi	jam	0.010	8.570,00	86
B	Peralatan				
B1	Pembengkok	jam	0.010	6.400,00	64
B2	Bar Cutter	jam	0.010	6.400,00	64
C	Bahan				
C1	Besi Polos	Kg	1.000	8.188,00	8.188
C2	Besi Ulir	Kg	1.000	8.188,00	8.188
C3	Kawat Beton	Kg	1.000	10.750,00	10.750
Nilai HSP per m3					27.614
Total Nilai Kontrak					319.235.423.348

Plaza Tol					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.006	12.000,00	77
A2	Pekerja	jam	0.038	7.710,00	297
A3	Tukang	jam	0.019	8.570,00	165
B	Peralatan				
B1	Mesin Cat Marka	jam	0.006	27.363,00	175
C	Bahan				
C1	Cat Termoplastik	Kg	4.095	8.188,00	33.530
C2	Manik-manik kaca	Kg	0.450	8.188,00	3.685
Nilai HSP per kg					37.928
Total Nilai Kontrak					6.398.330.943

Perkerasan					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.005	12.000,00	60
A2	Pekerja	jam	0.050	7.710,00	386
B	Bahan				
B1	Geotextile	Kg	4.095	16.200,00	17.010
Nilai HSP per kg					17.456
Total Nilai Kontrak					821.947.624.248
Pekerjaan Fasilitas					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.005	12.000,00	2.743
A2	Pekerja	jam	0.050	7.710,00	3.525
A3	Tukang	jam	0,229	8.570,00	1.959
B	Bahan				
B1	Gebalan Rumput	m2	1.000	4.000,00	4.000
Nilai HSP per kg					12.226
Total Nilai Kontrak					7.873.249.053
Penyiapan Tanah Dasar					
No	Item	Sat	Vol	Harga Satuan (Rp)	Jumlah Harga(Rp)
A	Tenaga Kerja				
A1	Mandor	jam	0.005	12.000,00	7.680
A2	Pekerja	jam	0.050	7.710,00	9.869
A3	Tukang	jam	0,229	8.570,00	5.485
B	Bahan				
B1	Guard Rail	bh	1.000	1.629.250,00	1.629.250
Nilai HSP per kg					413.071
Total Nilai Kontrak					7.546.845.600