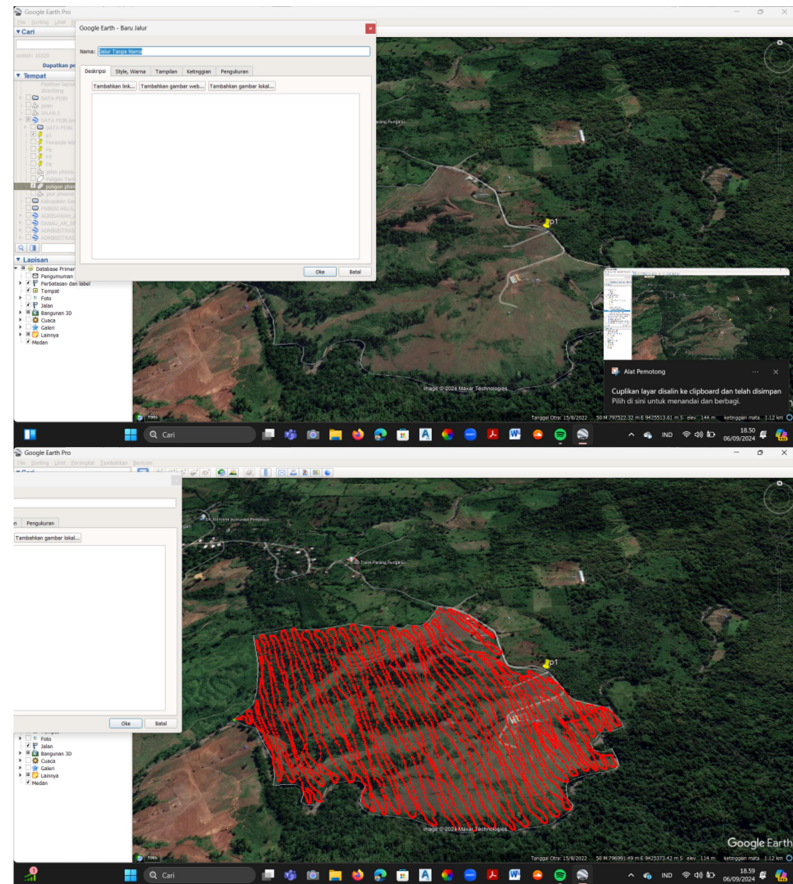
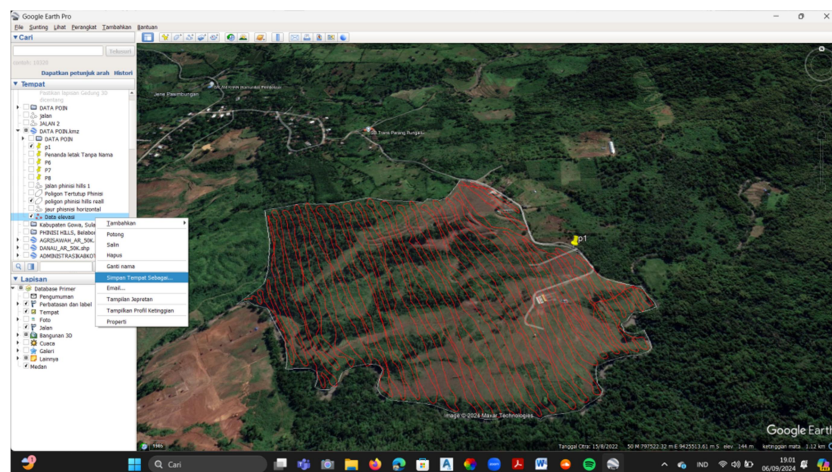


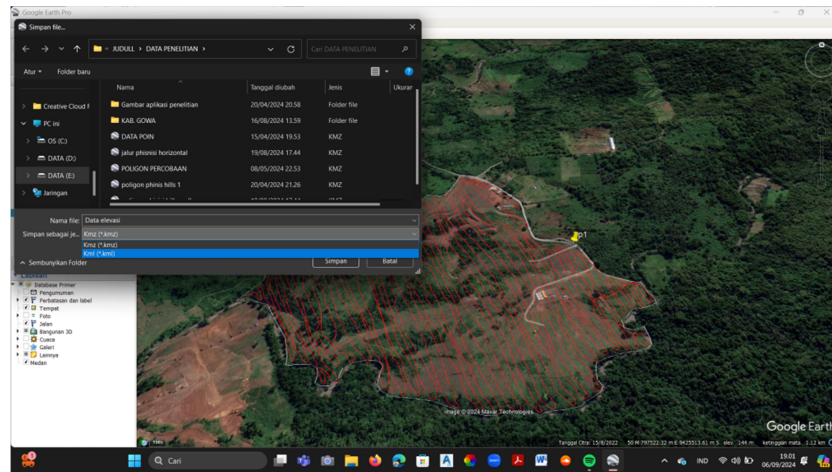
LAMPIRAN

LAMPIRAN GAMBAR DARI GOOGLE EARTH



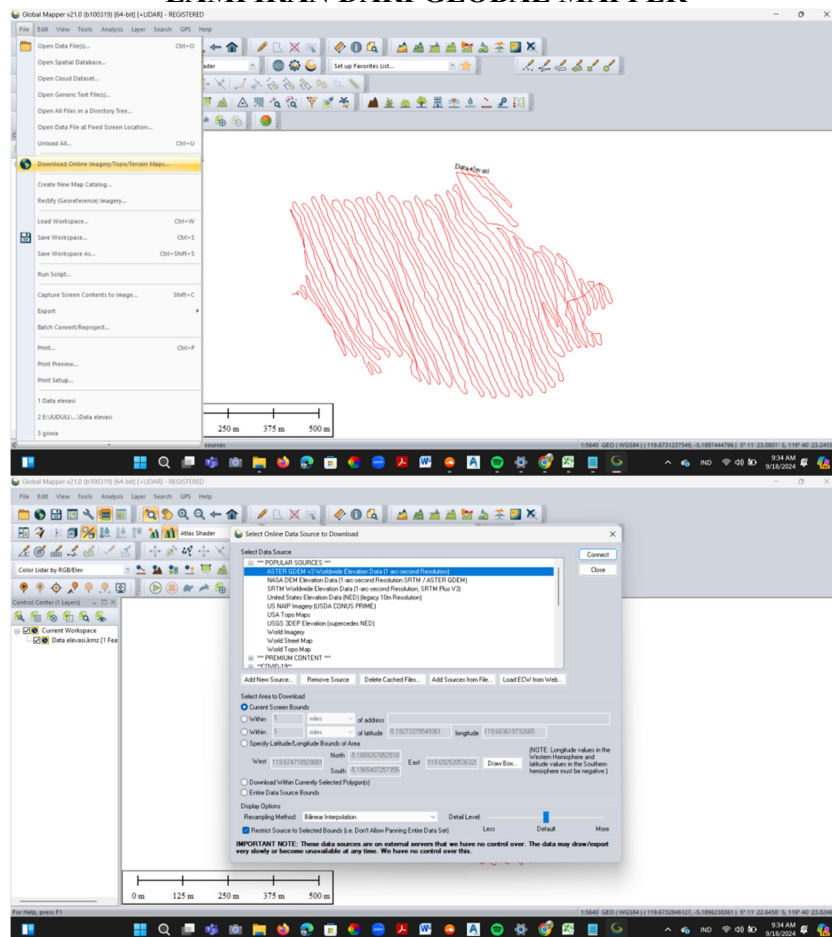
PEMBUATAN DATA PATH (JALUR)



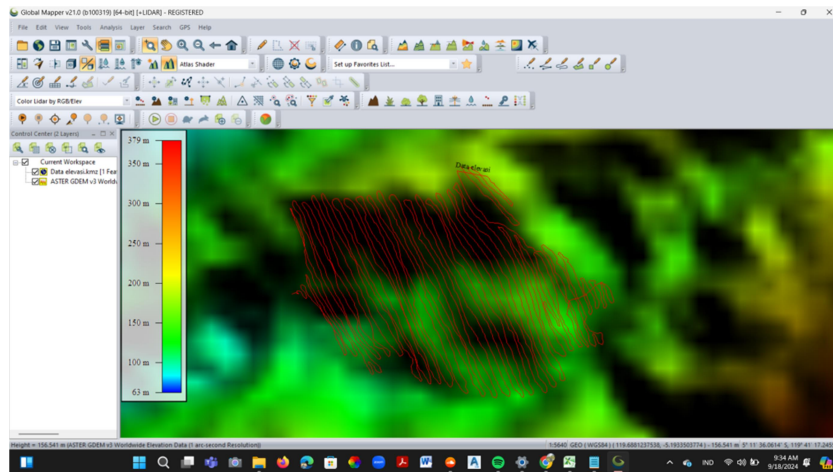


PROSES PENGAMBILAN DATA DARI GOOGLE EARTH

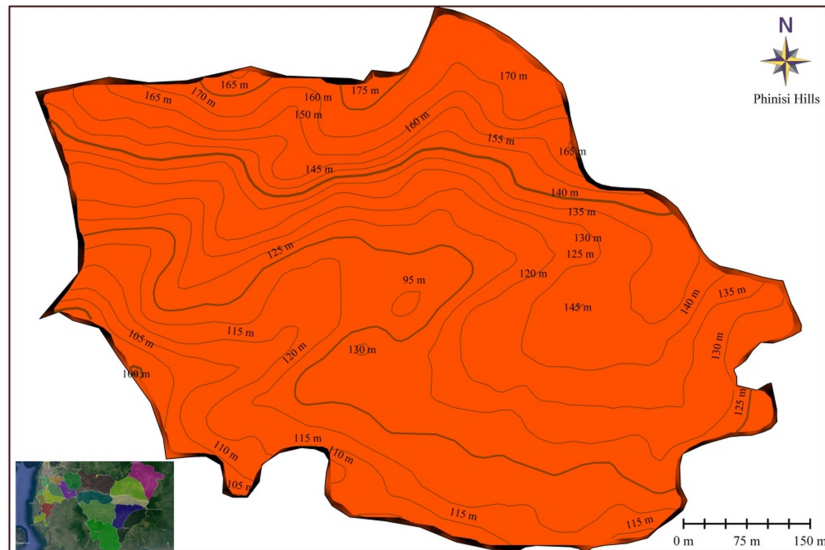
LAMPIRAN DARI GLOBAL MAPPER



PEMBUATAN PETA TOPOGRAFI

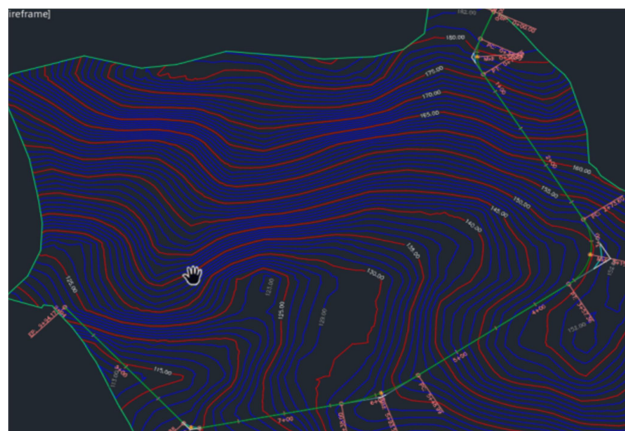


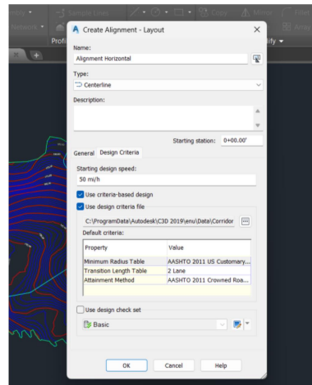
PEMBUATAN PETA TOPOGRAFI



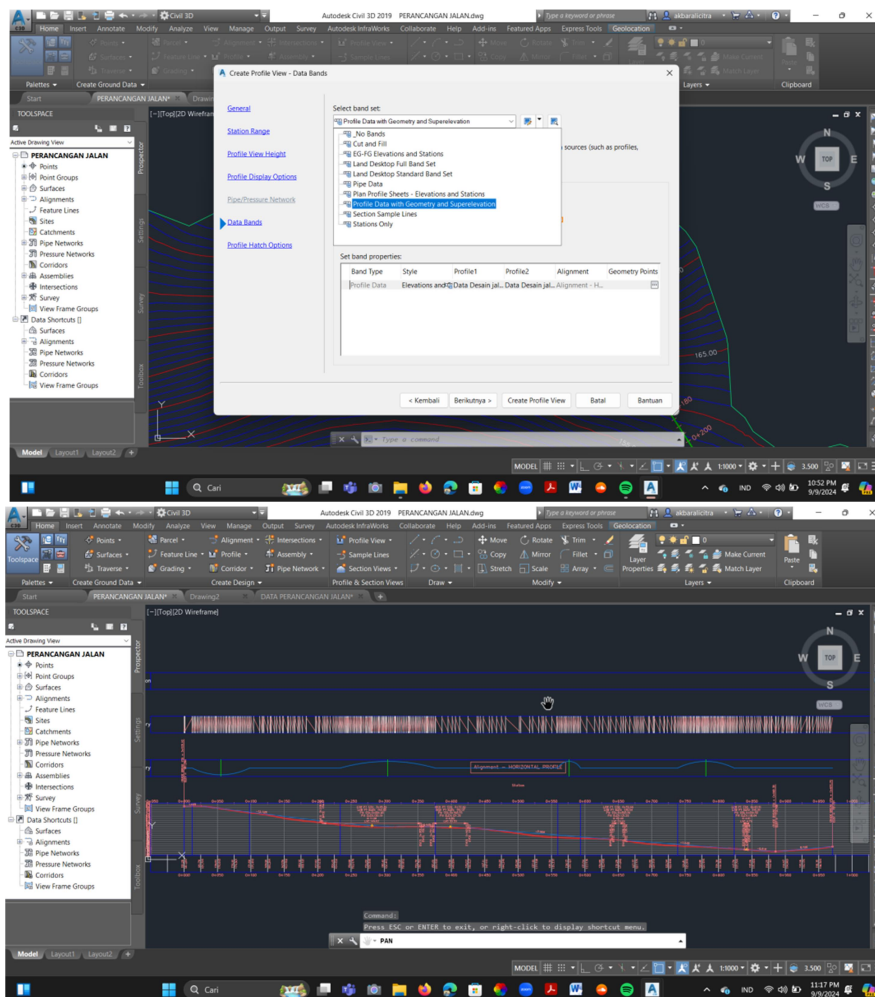
HASIL PETA TOPOGRAFI DI GLOBAL MAPPER

LAMPIRAN GAMBAR AUTOCAD CIVIL 3D

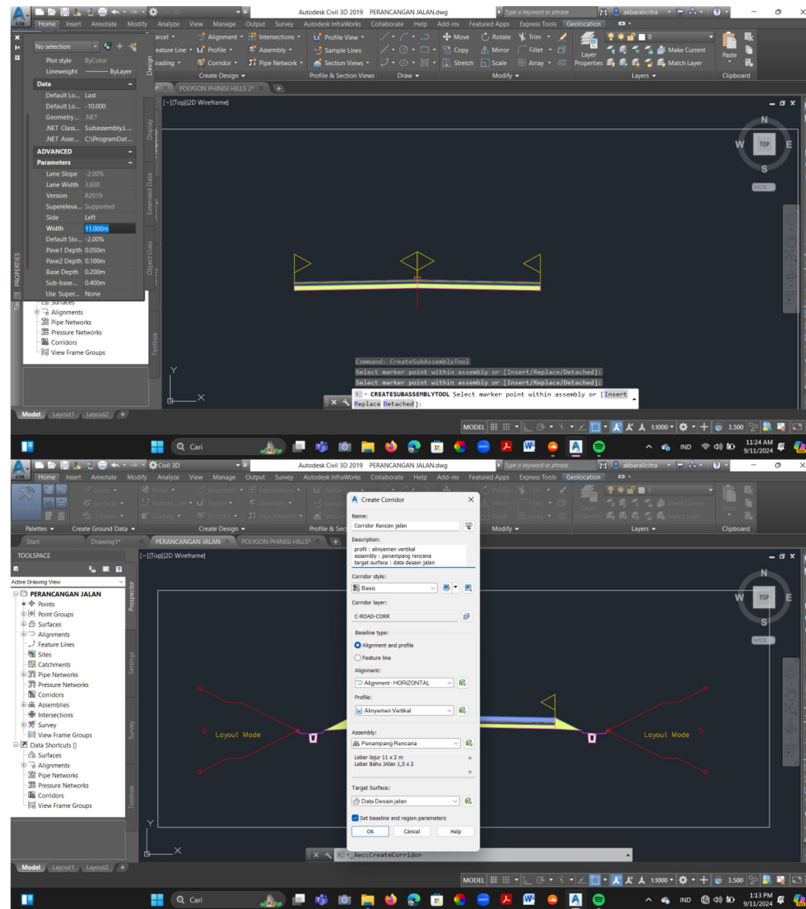




PEMBUATAN ALINYEMEN HORIZONTAL



PEMBUATAN ALINYEMEN VERTIKAL

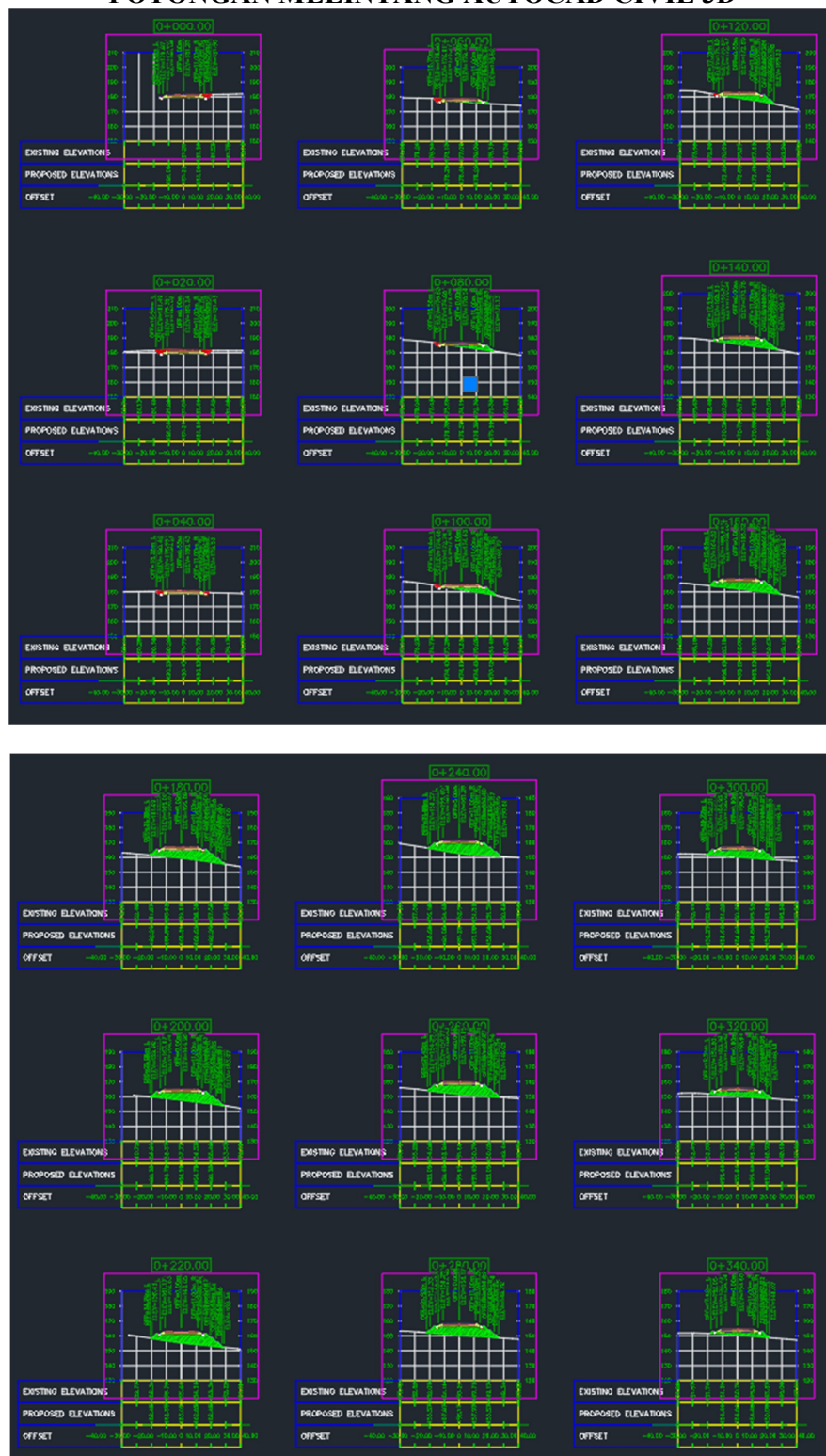


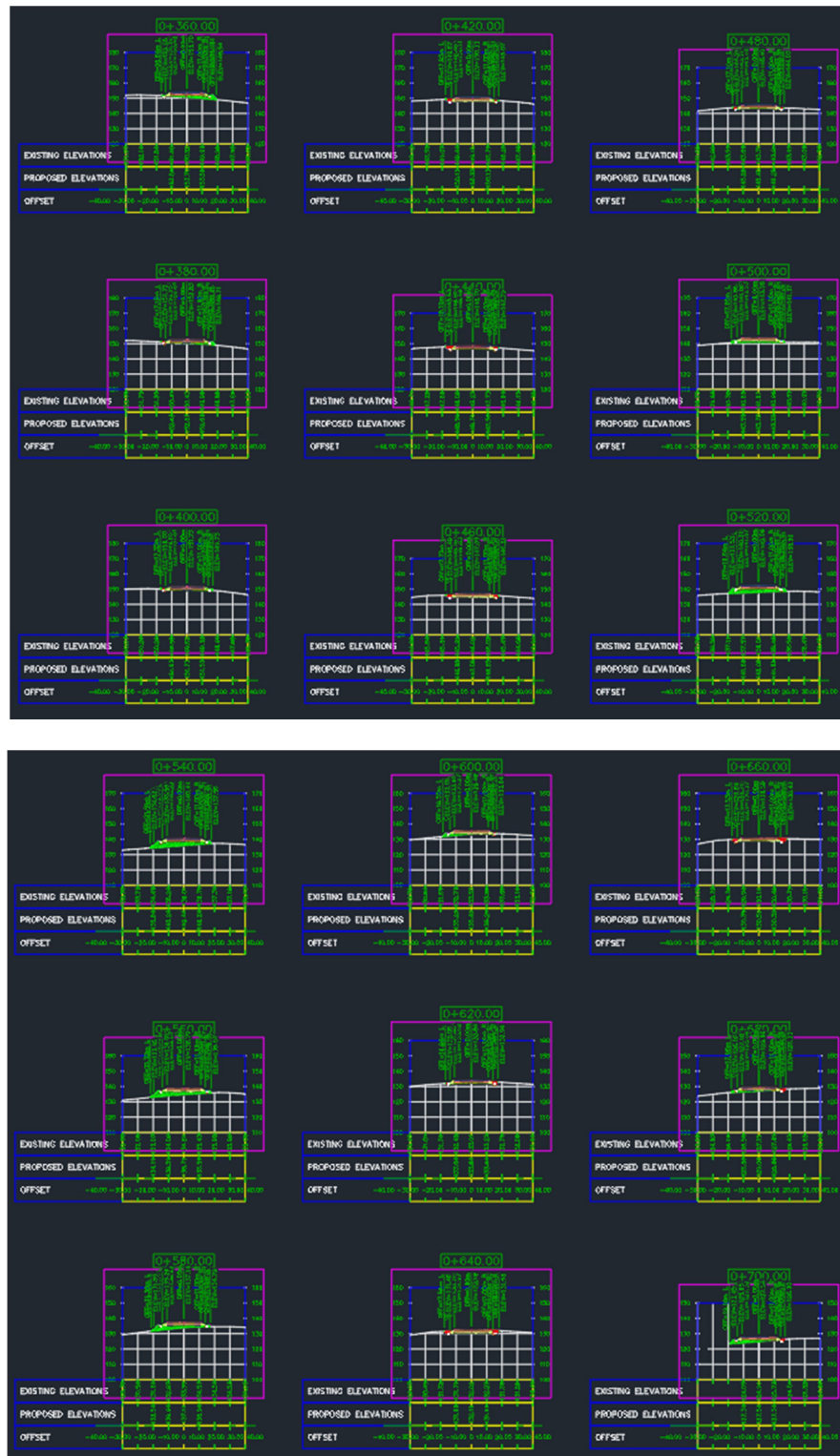
PEMBUATAN CORRIDOR CIVIL 3D

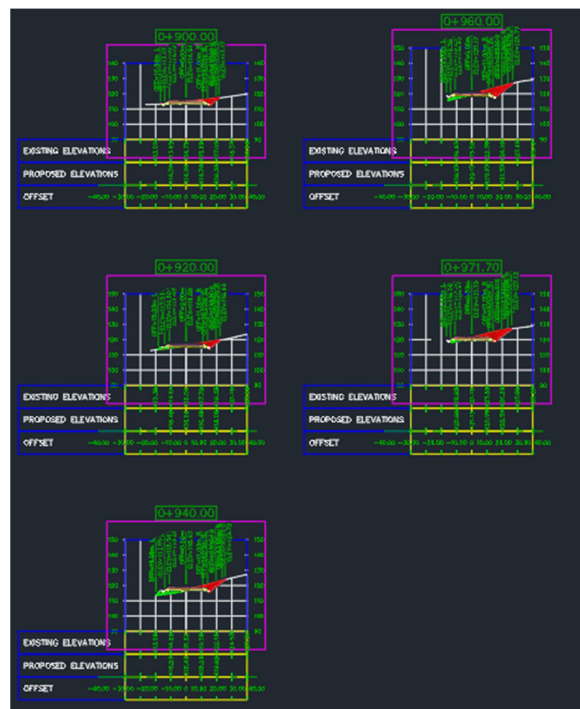


HASIL PERANCANGAN JALAN DITAMPILKAN MELALUI GEOLOCATION CIVIL 3D

POTONGAN MELINTANG AUTOCAD CIVIL 3D







DATA PERHITUNGAN VOLUME AUTOCAD CIVIL 3D

Volume CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+000.00	0.00	27.94	0.00	0.00	0.00	0.00
0+020.00	0.00	66.59	0.00	948.44	0.00	948.44
0+040.00	0.00	37.02	0.00	1017.89	0.00	1966.33
0+060.00	13.88	18.12	156.48	508.20	156.48	2474.53
0+080.00	45.28	10.87	666.68	238.88	823.16	2713.41
0+100.00	68.28	6.71	1226.44	153.76	2049.60	2867.17
0+120.00	83.10	2.85	1513.74	95.63	3563.34	2962.81
0+140.00	140.01	0.04	2231.08	28.94	5794.42	2991.75
0+160.00	219.58	0.00	3595.90	0.40	9390.32	2992.15
0+180.00	249.34	0.00	4689.16	0.00	14079.47	2992.15
0+200.00	241.55	0.00	4908.86	0.00	18988.34	2992.15
0+220.00	249.67	0.00	4912.17	0.00	23900.51	2992.15
0+240.00	273.19	0.00	5159.79	0.00	29060.30	2992.15
0+260.00	260.31	0.00	5100.05	0.00	34160.35	2992.15
0+280.00	249.93	0.00	4921.79	0.00	39082.14	2992.15
0+300.00	186.78	0.00	4225.54	0.00	43307.68	2992.15
0+320.00	127.61	0.00	3024.92	0.00	46332.61	2992.15
0+340.00	78.84	0.21	1972.48	2.42	48305.09	2994.57
0+360.00	38.17	1.94	1101.97	25.03	49407.07	3019.61
0+380.00	16.94	3.55	515.65	62.34	49922.72	3081.95
0+400.00	4.57	6.54	215.12	100.92	50137.84	3182.87
0+420.00	0.00	31.48	45.73	380.23	50183.57	3563.10
0+440.00	0.00	47.34	0.00	788.18	50183.57	4351.29
0+460.00	0.00	34.08	0.00	814.17	50183.57	5165.45
0+480.00	0.00	9.42	0.00	435.02	50183.57	5600.47
0+500.00	29.90	0.62	298.97	100.38	50482.54	5700.85
0+520.00	79.16	0.00	1090.61	6.17	51573.16	5707.02
0+540.00	97.88	0.00	1770.45	0.00	53343.61	5707.02
0+560.00	84.09	0.07	1819.69	0.68	55163.30	5707.70
0+580.00	62.15	0.45	1539.40	4.26	56702.70	5711.96
0+600.00	21.04	1.60	873.07	17.90	57575.77	5729.86
0+620.00	0.02	19.32	210.63	209.23	57786.40	5939.09
0+640.00	0.00	44.81	0.24	641.35	57786.64	6580.44
0+660.00	0.00	36.88	0.00	816.90	57786.64	7397.35
0+680.00	19.38	5.65	193.80	425.25	57980.43	7822.59
0+700.00	43.45	2.32	628.34	79.70	58608.77	7902.29
0+720.00	40.69	1.80	841.46	41.22	59450.23	7943.51
0+740.00	27.06	2.82	677.50	46.17	60127.74	7989.68
0+760.00	14.25	10.41	447.40	111.68	60575.14	8101.36
0+780.00	0.00	28.58	160.84	357.06	60735.98	8458.42
0+800.00	0.00	41.00	0.02	676.82	60736.00	9135.24
0+820.00	0.00	43.57	0.00	853.46	60736.00	9988.70
0+840.00	0.00	51.57	0.00	956.86	60736.00	10945.56
0+860.00	0.00	44.25	0.00	958.23	60736.00	11903.79
0+880.00	0.00	55.92	0.00	1001.67	60736.00	12905.46
0+900.00	0.24	51.89	2.41	1078.11	60738.41	13983.57
0+920.00	8.02	48.39	82.57	1002.79	60820.98	14986.37
0+940.00	33.57	53.87	415.91	1022.57	61236.88	16008.93
0+960.00	19.39	80.74	529.59	1346.09	61766.48	17355.03
0+971.70	7.37	92.80	156.44	1014.93	61922.92	18369.96

Volume AC-BC

Material Table			
Station	Area	Volume	Cumulative Volume
0+000.00	2.20	0.00	0.00
0+020.00	2.20	44.00	44.00
0+040.00	2.20	44.00	88.00
0+060.00	2.20	44.00	132.00
0+080.00	2.20	44.00	176.00
0+100.00	2.20	44.00	220.00
0+120.00	2.20	44.00	264.00
0+140.00	2.20	44.00	308.00
0+160.00	2.20	44.00	352.00
0+180.00	2.20	44.00	396.00
0+200.00	2.20	44.00	440.00
0+220.00	2.20	44.00	484.00
0+240.00	2.20	44.00	528.00
0+260.00	2.20	44.00	572.00
0+280.00	2.20	44.00	616.00
0+300.00	2.20	44.00	660.00
0+320.00	2.20	44.00	704.00
0+340.00	2.20	44.00	748.00
0+360.00	2.20	44.00	792.00
0+380.00	2.20	44.00	836.00
0+400.00	2.20	44.00	880.00
0+420.00	2.20	44.00	924.00
0+440.00	2.20	44.00	968.00
0+460.00	2.20	44.00	1012.00
0+480.00	2.20	44.00	1056.00
0+500.00	2.20	44.00	1100.00
0+520.00	2.20	44.00	1144.00
0+540.00	2.20	44.00	1188.00
0+560.00	2.20	44.00	1232.00
0+580.00	2.20	44.00	1276.00
0+600.00	2.20	44.00	1320.00
0+620.00	2.20	44.00	1364.00
0+640.00	2.20	44.00	1408.00
0+660.00	2.20	44.00	1452.00
0+680.00	2.20	44.00	1496.00
0+700.00	2.20	44.00	1540.00
0+720.00	2.20	44.00	1584.00
0+740.00	2.20	44.00	1628.00
0+760.00	2.20	44.00	1672.00
0+780.00	2.20	44.00	1716.00
0+800.00	2.20	44.00	1760.00
0+820.00	2.20	44.00	1804.00
0+840.00	2.20	44.00	1848.00
0+860.00	2.20	44.00	1892.00
0+880.00	2.20	44.00	1936.00
0+900.00	2.20	44.00	1980.00
0+920.00	2.20	44.00	2024.00
0+940.00	2.20	44.00	2068.00
0+960.00	2.20	44.00	2112.00
0+971.70	2.20	25.73	2137.73

Volume AC-WC

Material Table			
Station	Area	Volume	Cumulative Volume
0+000.00	11.00	0.00	0.00
0+020.00	11.00	220.00	220.00
0+040.00	11.00	220.00	440.00
0+060.00	11.00	220.00	660.00
0+080.00	11.00	220.00	880.00
0+100.00	11.00	220.00	1100.00
0+120.00	11.00	220.00	1320.00
0+140.00	11.00	220.00	1540.00
0+160.00	11.00	220.00	1760.00
0+180.00	11.00	220.00	1980.00
0+200.00	11.00	220.00	2200.00
0+220.00	11.00	220.00	2420.00
0+240.00	11.00	220.00	2640.00
0+260.00	11.00	220.00	2860.00
0+280.00	11.00	220.00	3080.00
0+300.00	11.00	220.00	3300.00
0+320.00	11.00	220.00	3520.00
0+340.00	11.00	220.00	3740.00
0+360.00	11.00	220.00	3960.00
0+380.00	11.00	220.00	4180.00
0+400.00	11.00	220.00	4400.00
0+420.00	11.00	220.00	4620.00
0+440.00	11.00	220.00	4840.00
0+460.00	11.00	220.00	5060.00
0+480.00	11.00	220.00	5280.00
0+500.00	11.00	220.00	5500.00
0+520.00	11.00	220.00	5720.00
0+540.00	11.00	220.00	5940.00
0+560.00	11.00	220.00	6160.00
0+580.00	11.00	220.00	6380.00
0+600.00	11.00	220.00	6600.00
0+620.00	11.00	220.00	6820.00
0+640.00	11.00	220.00	7040.00
0+660.00	11.00	220.00	7260.00
0+680.00	11.00	220.00	7480.00
0+700.00	11.00	220.00	7700.00
0+720.00	11.00	220.00	7920.00
0+740.00	11.00	220.00	8140.00
0+760.00	11.00	220.00	8360.00
0+780.00	11.00	220.00	8580.00
0+800.00	11.00	220.00	8800.00
0+820.00	11.00	220.00	9020.00
0+840.00	11.00	220.00	9240.00
0+860.00	11.00	220.00	9460.00
0+880.00	11.00	220.00	9680.00
0+900.00	11.00	220.00	9900.00
0+920.00	11.00	220.00	10120.00
0+940.00	11.00	220.00	10340.00
0+960.00	11.00	220.00	10560.00
0+971.70	11.00	128.66	10688.66

BASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+000.00	4.40	0.00	0.00
0+020.00	4.40	88.00	88.00
0+040.00	4.40	88.00	176.00
0+060.00	4.40	88.00	264.00
0+080.00	4.40	88.00	352.00
0+100.00	4.40	88.00	440.00
0+120.00	4.40	88.00	528.00
0+140.00	4.40	88.00	616.00
0+160.00	4.40	88.00	704.00
0+180.00	4.40	88.00	792.00
0+200.00	4.40	88.00	880.00
0+220.00	4.40	88.00	968.00
0+240.00	4.40	88.00	1056.00
0+260.00	4.40	88.00	1144.00
0+280.00	4.40	88.00	1232.00
0+300.00	4.40	88.00	1320.00
0+320.00	4.40	88.00	1408.00
0+340.00	4.40	88.00	1496.00
0+360.00	4.40	88.00	1584.00
0+380.00	4.40	88.00	1672.00
0+400.00	4.40	88.00	1760.00
0+420.00	4.40	88.00	1848.00
0+440.00	4.40	88.00	1936.00
0+460.00	4.40	88.00	2024.00
0+480.00	4.40	88.00	2112.00
0+500.00	4.40	88.00	2200.00
0+520.00	4.40	88.00	2288.00
0+540.00	4.40	88.00	2376.00
0+560.00	4.40	88.00	2464.00
0+580.00	4.40	88.00	2552.00
0+600.00	4.40	88.00	2640.00
0+620.00	4.40	88.00	2728.00
0+640.00	4.40	88.00	2816.00
0+660.00	4.40	88.00	2904.00
0+680.00	4.40	88.00	2992.00
0+700.00	4.40	88.00	3080.00
0+720.00	4.40	88.00	3168.00
0+740.00	4.40	88.00	3256.00
0+760.00	4.40	88.00	3344.00
0+780.00	4.40	88.00	3432.00
0+800.00	4.40	88.00	3520.00
0+820.00	4.40	88.00	3608.00
0+840.00	4.40	88.00	3696.00
0+860.00	4.40	88.00	3784.00
0+880.00	4.40	88.00	3872.00
0+900.00	4.40	88.00	3960.00
0+920.00	4.40	88.00	4048.00
0+940.00	4.40	88.00	4136.00
0+960.00	4.40	88.00	4224.00
0+971.70	4.40	51.47	4275.47

SUBE BASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+000.00	12.07	0.00	0.00
0+020.00	12.07	241.45	241.45
0+040.00	12.07	241.45	482.91
0+060.00	12.07	241.45	724.36
0+080.00	12.07	241.45	965.82
0+100.00	12.07	241.45	1207.27
0+120.00	12.07	241.45	1448.73
0+140.00	12.07	241.45	1690.18
0+160.00	12.07	241.45	1931.64
0+180.00	12.07	241.45	2173.09
0+200.00	12.07	241.45	2414.55
0+220.00	12.07	241.45	2656.00
0+240.00	12.07	241.45	2897.45
0+260.00	12.07	241.45	3138.91
0+280.00	12.07	241.45	3380.36
0+300.00	12.07	241.45	3621.82
0+320.00	12.07	241.45	3863.27
0+340.00	12.07	241.45	4104.73
0+360.00	12.07	241.45	4346.18
0+380.00	12.07	241.45	4587.64
0+400.00	12.07	241.45	4829.09
0+420.00	12.07	241.45	5070.55
0+440.00	12.07	241.45	5312.00
0+460.00	12.07	241.45	5553.45
0+480.00	12.07	241.45	5794.91
0+500.00	12.07	241.45	6036.36
0+520.00	12.07	241.45	6277.82
0+540.00	12.07	241.45	6519.27
0+560.00	12.07	241.45	6760.73
0+580.00	12.07	241.45	7002.18
0+600.00	12.07	241.45	7243.64
0+620.00	12.07	241.45	7485.09
0+640.00	12.07	241.45	7726.55
0+660.00	12.07	241.45	7968.00
0+680.00	12.07	241.45	8209.45
0+700.00	12.07	241.45	8450.91
0+720.00	12.07	241.45	8692.36
0+740.00	12.07	241.45	8933.82
0+760.00	12.07	241.45	9175.27
0+780.00	12.07	241.45	9416.73
0+800.00	12.07	241.45	9658.18
0+820.00	12.07	241.45	9899.64
0+840.00	12.07	241.45	10141.09
0+860.00	12.07	241.45	10382.55
0+880.00	12.07	241.45	10624.00
0+900.00	12.07	241.45	10865.45
0+920.00	12.07	241.45	11106.91
0+940.00	12.07	241.45	11348.36
0+960.00	12.07	241.45	11589.82
0+971.70	12.07	141.21	11731.03

DRAINASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+000.00	1.69	0.00	0.00
0+020.00	1.69	34.01	34.01
0+040.00	1.69	36.02	70.03
0+060.00	1.69	36.02	106.05
0+080.00	1.69	36.02	142.08
0+100.00	1.69	35.23	177.31
0+120.00	1.69	33.78	211.09
0+140.00	1.69	33.78	244.87
0+160.00	1.69	33.78	278.65
0+180.00	1.69	33.78	312.43
0+200.00	1.69	33.78	346.21
0+220.00	1.69	33.78	379.99
0+240.00	1.69	33.28	413.27
0+260.00	1.69	31.92	445.19
0+280.00	1.69	31.92	477.11
0+300.00	1.69	31.92	509.03
0+320.00	1.69	31.92	540.94
0+340.00	1.69	31.92	572.86
0+360.00	1.69	31.92	604.78
0+380.00	1.69	32.20	636.98
0+400.00	1.69	33.78	670.76
0+420.00	1.69	33.78	704.54
0+440.00	1.69	33.78	738.32
0+460.00	1.69	33.78	772.10
0+480.00	1.69	33.78	805.88
0+500.00	1.69	33.78	839.66
0+520.00	1.69	33.78	873.45
0+540.00	1.69	33.78	907.23
0+560.00	1.69	33.78	941.01
0+580.00	1.69	31.86	972.86
0+600.00	1.69	32.38	1005.25
0+620.00	1.69	33.78	1039.03
0+640.00	1.69	33.78	1072.81
0+660.00	1.69	33.78	1106.59
0+680.00	1.69	33.78	1140.37
0+700.00	1.69	33.78	1174.15
0+720.00	1.69	33.78	1207.93
0+740.00	1.69	33.78	1241.71
0+760.00	1.69	31.82	1273.53
0+780.00	1.69	31.82	1305.35
0+800.00	1.69	31.82	1337.17
0+820.00	1.69	31.82	1368.99
0+840.00	1.69	33.35	1402.35
0+860.00	1.69	33.78	1436.13
0+880.00	1.69	33.78	1469.91
0+900.00	1.69	33.78	1503.69
0+920.00	1.69	33.78	1537.47
0+940.00	1.69	33.78	1571.25
0+960.00	1.69	33.78	1605.03
0+971.70	1.69	19.76	1624.79

