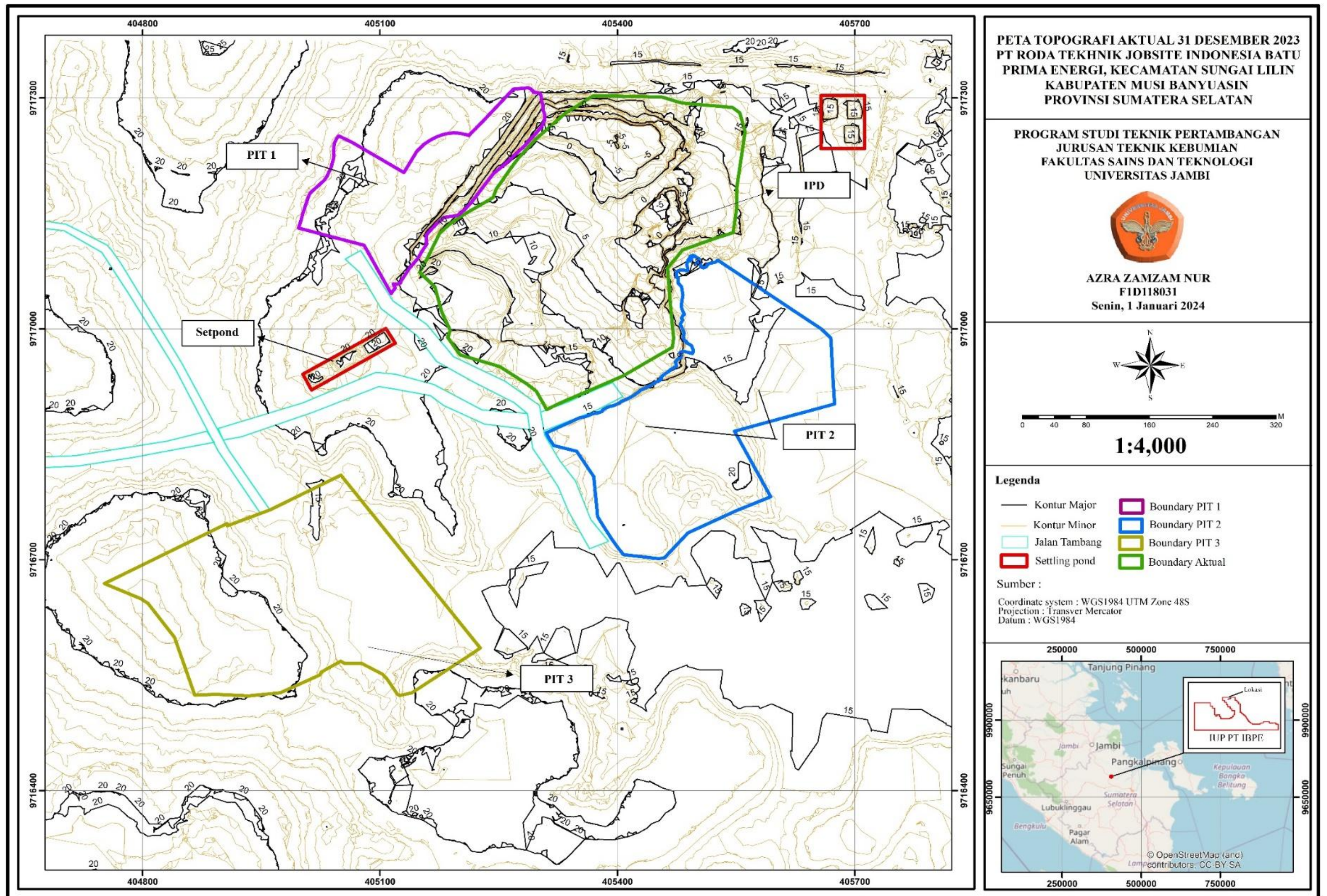


LAMPIRAN

Lampiran 1. Peta Topgrapi Aktual



Lampiran 2. Standar Parameter Operasional (SPO)

STANDAR PARAMETER OPERASIONAL						
Month				Januari	Februari	Maret
Available Hours	hrs	24		744	696	744
Public Holiday	hrs					
Delay Hours Coal	hrs			264.28	248.13	265.28
Delay Hours Overburden	hrs			248.78	233.63	249.78
S1. Rain/Smog/Fog	hrs	3.59	hrs/day	111.29	104.11	111.29
S2. Slippery	hrs	1	hrs/day	30.85	28.86	30.85
S3. P2H & P5M	hrs	0.33	hrs/day	10.33	9.67	10.33
S4. Shift Change	hrs	0.25	hrs/day	7.75	7.25	7.75
S5. Pit Stop (refueling)	hrs	0.33	hrs/day	10.33	9.67	10.33
S6. Prepare Front Loading	hrs	0.25	hrs/day	7.75	7.25	7.75
S7. Pit/Disposal Maintenance	hrs	0	hrs/day	0	0	0
S8. No Operator	hrs	0	hrs/day	0	0	0
S9. Meal & Rest	hrs	2	hrs/day	62	58	62
S10. No Hauler/No Dozer	hrs	0	hrs/day	0	0	0
S11. Friday hours/month	hrs	1	hrs/week	4	4	5
S12. Safety Talk	hrs	0.5	hrs/week	2	2.5	2
S13. Fasting	hrs	0	hrs/day	0	0	0
S14. Waiting Survey	hrs	0.08	hrs/day	2.48	2.32	2.48
S15. Stockpile Delay / WB Problem	hrs	0.5	hrs/day	15.5	14.5	15.5
S16. Others	hrs	0	hrs/day	0	0	0
Available WH Coal	hrs			479.72	447.87	478.72
Available WH Overburden	hrs			495.22	462.37	494.22

<i>Physical Availabilty (PA)</i>				Januari	Februari	Maret
<i>Overburden Excavator</i>						
SY 330 H				92%	92%	92%
SY 365 H				92%	92%	92%
<i>Overburden Hauler</i>						
CWE 370 64R				92%	92%	92%
SYZ326C				92%	92%	92%
<i>Coal Excavator</i>						
SY 330 H				95%	95%	95%
SY 215 ACE				95%	95%	95%
<i>Coal Hauler</i>						
CWE 370 64R				95%	95%	95%

<i>Use of Availabilty (UA)</i>				Januari	Februari	Maret
<i>Overburden Excavator</i>						
SY 330 H				64%	64%	64%
SY 365 H				64%	64%	64%
<i>Overburden Hauler</i>						
CWE 370 64R				64%	64%	64%
SYZ326C				64%	64%	64%
<i>Coal Excavator</i>						
SY 330 H				63%	62%	62%
SY 215 ACE				63%	62%	62%
<i>Coal Hauler</i>						
CWE 370 64R				63%	62%	62%

Lampiran 3. Kapasitas Produksi Unit

Production Capacity (Waste Removal)						
<i>Fleet 1</i>				Januari	Februari	Maret
SY 330 H	Excavator			28,013.11	26,090.17	27,884.67
CWE 370 64R	Hauler			26,543.04	24,721.01	26,421.34
<i>MF</i>						
SY 330 H	Excavator			1	1	1
CWE 370 64R	Hauler			3	3	3
<i>Total Produksi</i>				26,543.04	24,721.01	26,421.34
<i>Fleet 2</i>						
SY 365 H	Excavator			28,013	26,090	27,885
SYZ326C	Hauler			27,080	25,221	26,956
<i>MF</i>						
SY 365 H	Excavator			1	1	1
SYZ326C	Hauler			3	3	3
<i>Total Produksi</i>				27,079.97	25,221.08	26,955.80

Production Capacity (Coal Getting)						
<i>Fleet 1</i>				Januari	Februari	Maret
SY 215 ACE	Excavator			26,224	24,426	26,106
CWE 370 64R	Hauler			25,999	24,216	25,882
<i>MF</i>						
SY 215 ACE	Excavator			1	1	1
CWE 370 64R	Hauler			5	5	5

<i>Total Produksi</i>			25,998.88	24,215.86	25,881.51
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TOTAL PRODUCTION	Januari	Februari	Maret
<i>OVERBURDEN</i>	53,623.00	49,942.09	53,377.14
<i>COAL</i>	25,998.88	24,215.86	25,881.51
<i>SR</i>	2.06	2.06	2.06

Lampiran 4. Produktivitas *Excavattor* SY 215 ACE dan *Hauler* CWE 370 64R *Coal Getting*

PERHITUNGAN CYCLE TIME COAL

Unit :		CWE 370 64 R		
Kelas :		DT 20/30 Ton	Kapasitas Vessel	16 Ton / Rit
Jarak Hauling Pit - Stockroom				5.0 Km
				5,000 Meter
Hauling		Kec. Km/Jam	Waktu (Menit)	
Waktu Antri Muat & Manuver			1.5	menit
Waktu Loading Coal			7.7	menit
Waktu Travel (bermuatan)		18	16.7	menit
Waktu Antri Bongkar			-	menit
Waktu Dumping & Manuver			1.0	menit
Waktu Travel (Kosongan)		25	12.0	menit
Efesiensi			80%	%
Total Waktu			39	menit
Waktu edar 1 kali putaran			1.54	Rit / jam
Produksi per jam			20	Ton

Unit :	SY 215 ACE		
Kelas :	20 Ton	Kapasitas Bucket	1.1 BCM
Loading		Waktu (Menit)	
Waktu Loading Coal		0.4	menit
Efisiensi pemuatan		80%	%
Density		1.3	Ton
Faktor Bucket		0.85	
Swell Factor		0.74	
Jumlah Pengisian		18	kali
Digging		10	detik
Fill Swing		6	detik
Dumping		5	detik
Empty Swing		5	detik
Produksi per jam		100	Ton
Jumlah DT yang dibutuhkan 1 Fleet		5	Unit

Lampiran 5. Produktivitas *Excavator* SY 330 H dan *Hauler* CWE 370 64R *Overburden*

PERHITUNGAN CYCLE TIME OVERBURDEN

Unit :	CWE 370 64 R		
Kelas :	DT 20 Ton	Kapasitas Vessel	16.00 BCM / Rit
Jarak Hauling Pit - ROM			1.0 Km
			1,000 Meter
Hauling	Kec. Km/Jam	Waktu (Menit)	
Waktu Antri Muat & Manuver		2.0	menit
Waktu Loading OB		7.0	menit
Waktu Travel (bermuatan)	15	4.0	menit
Waktu Antri Bongkar		-	menit
Waktu Dumping & Manuver		2.0	menit
Waktu Travel (Kosongan)	20	3.0	menit
Efesiensi		65%	%
Total Waktu		18	menit
Waktu edar 1 kali putaran		3.33	Rit / jam
Produksi per jam		35	Ton

Unit :		SY 330 H		
Kelas :		30 Ton	Kapasitas Bucket	1.8 BCM
Loading			Waktu (Menit)	
Waktu Loading OB			0.5	menit
Efisiensi pemuatan			80%	%
Density				Ton
Faktor Bucket			0.85	
Swell Factor			0.74	
Jumlah Pengisian			14	kali
Digging			11.7	detik
Fill Swing			6	detik
Dumping			6	detik
Empty Swing			6	detik
Produksi per jam			110	Ton
Jumlah DT yang dibutuhkan 1 Fleet			3	Unit

Lampiran 6. Produktivitas *Excavator* SY 365 H dan *Hauler* SYZ 326 C *Overburden*

PERHITUNGAN CYCLE TIME OVERBURDEN

Unit :	SYZ 326 C			
Kelas :	DT 20/30 Ton	Kapasitas Vessel	16.00	BCM / Rit
Jarak Hauling Pit - ROM 			1.0	Km
			1,000	Meter
Hauling		Kec. Km/Jam	Waktu (Menit)	
Waktu Antri Muat & Manuver		15	3.0	menit
Waktu Loading OB			7.0	menit
Waktu Travel (bermuatan)			4.0	menit
Waktu Antri Bongkar			-	menit
Waktu Dumping & Manuver		20	2.0	menit
Waktu Travel (Kosongan)			3.0	menit
Efesiensi			70%	%
Total Waktu			19	menit
Waktu edar 1 kali putaran			3.16	Rit / jam
Produksi per jam			35	Ton

Unit :	SY 365 H			
Kelas :	30 Ton	Kapasitas Bucket	1.8	BCM
Loading			Waktu (Menit)	
Waktu Loading OB			0.5	menit
Efisiensi pemuatan			80%	%
Density				Ton
Faktor Bucket			0.85	
Swell Factor			0.74	
Jumlah Pengisian			14	kali
Digging			11.7	detik
Fill Swing			6	detik
Dumping			6	detik
Empty Swing			6	detik
Produksi per jam			110	Ton
Jumlah DT yang dibutuhkan 1 Fleet			4	Unit

Lampiran 7. *Cycletime Coal Getting*

No	Digging	Fill Swing	Dumping	Empty Swing	Total Cycle Time
1	9.76	7.78	5.02	5.12	27.68
2	8.47	5.85	4.23	5.61	24.16
3	12.37	7.94	6.09	4.51	30.90
4	11.64	8.76	3.27	5.12	28.79
5	9.90	5.06	5.16	5.95	26.08
6	7.98	3.32	5.36	4.24	20.90
7	9.74	6.77	4.46	5.82	26.78
8	5.63	4.07	3.88	5.42	19.00
9	8.64	6.52	4.76	5.55	25.46
10	10.58	6.49	4.05	5.67	26.78
11	12.11	6.60	5.66	5.96	30.33
12	9.50	6.63	4.39	3.60	24.12
13	9.46	4.15	5.33	4.49	23.43
14	10.80	8.74	4.70	5.00	29.23
15	10.54	6.56	2.92	3.27	23.29
16	9.92	8.11	5.98	4.96	28.96
17	8.25	4.00	3.15	3.89	19.29
18	12.03	6.45	4.93	5.11	28.52
19	4.11	6.05	4.95	5.57	20.69
20	10.62	7.34	5.41	5.27	28.63
21	10.27	6.55	4.71	7.70	29.23
22	9.09	7.28	5.39	7.05	28.83
23	10.29	5.00	5.86	3.20	24.34
24	8.28	7.01	4.86	6.24	26.38
25	6.78	6.50	4.71	4.66	22.64
26	9.12	5.87	4.67	4.08	23.73
27	8.75	5.17	4.81	5.23	23.97
28	12.94	7.47	4.51	4.49	29.42
29	13.08	5.00	3.43	6.49	28.00
30	11.20	8.89	4.62	5.52	30.22
31	7.10	6.74	7.26	5.11	26.21
Jumlah	298.94	198.66	148.53	159.89	806.01

Lampiran 8. *Cycle Time Overburden*

No	Digging	Fill Swing	Dumping	Empty Swing	Total Cycle Time
1	13.02	6.11	6.69	6.48	32.30
2	14.14	4.02	6.35	6.24	30.75
3	11.42	5.16	6.38	6.17	29.12
4	12.45	5.07	4.57	6.89	28.97
5	14.01	6.17	5.71	5.11	31.01
6	13.51	5.20	4.42	5.48	28.60
7	12.14	4.85	5.09	4.69	26.77
8	11.84	3.82	6.54	6.81	29.01
9	12.71	6.28	5.85	5.84	30.68
10	14.22	6.08	4.31	5.75	30.36
11	11.63	5.57	4.15	5.10	26.45
12	10.96	6.16	7.20	6.61	30.93
13	15.07	6.47	5.63	6.39	33.57
14	15.65	5.99	6.20	6.81	34.66
15	8.42	6.31	6.30	5.53	26.56
16	13.65	6.10	4.00	6.41	30.16
17	11.07	5.49	6.83	5.07	28.46
18	13.67	6.76	6.33	5.36	32.12
19	14.90	5.74	5.47	6.14	32.25
20	12.10	5.26	5.82	5.77	28.95
21	13.55	5.08	5.60	5.84	30.07
22	11.68	5.14	6.13	6.67	29.62
23	9.27	5.99	5.97	5.19	26.41
24	12.81	5.78	5.39	4.64	28.62
25	12.17	5.91	6.79	5.23	30.10
26	11.04	4.61	5.43	4.63	25.71
27	12.73	4.85	5.77	5.03	28.38
28	13.07	6.75	7.21	5.84	32.87
29	15.40	7.56	6.50	5.18	34.64
30	12.45	6.26	7.36	5.53	31.60
31	13.28	5.39	6.29	5.29	30.25
Jumlah	394.02	175.93	182.24	177.72	929.91

Lampiran 9. Spesifikasi Excavator SY 365 H

Technical specifications

Specifications		Main performance	
Total weight	36000kg	Traveling speed (high/low)	5.5/3.5 (km/h)
Bucket capacity	1.6~1.8(1.6-rock)m ³	Slewing speed	9.5rpm
		Gradeability	70% (35°)
Engine		Ground pressure	65kPa
Model	GH-6HK1XK5C	Digging force of bucket	235kN
Type	Direct injection, 6-cylinder, 4-stroke, turbocharged, inter-cooling and water-cooled	Digging force of bucket rod	180kN
Rated power	212kW/2000rpm		
Maximum torque	1080Nm/1500rpm		
Displacement	7.79L		

Capacity of oil and coolant		Traveling section	
Fuel tank	690L	Number of track shoes	49
Engine oil	36L	Carrier wheel on each side	2
Radiator	12.3L	Thrust wheel on each side	9
Final drive	2×8.5L	Standard track	600mm

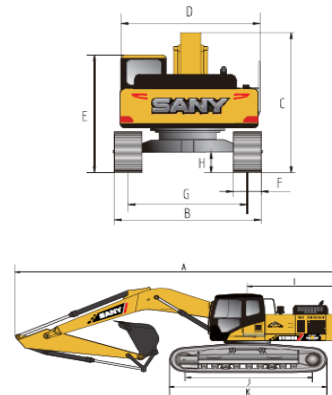
Boom---	6500mm	Bucket rod---	2900mm	Width of track---	600mm	Counter weight---	6900KG		
		3.0m	4.5m	6.0m	7.5m	9.0m			
		Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal	Transverse	Longitudinal	Transverse
7.5m	Kg								
6.0m	Kg								
4.5m	Kg								
3.0m	Kg								
1.5m	Kg								
地面	Kg								
-1.5m	Kg								
-3.0m	Kg								

1. The lifting capacity is calculated in accordance with ISO10560 and SAE1097, where limit coefficient of hydraulic system is 0.87 and tilting limit coefficient is 0.75;

2. The item with the mark * is limited by hydraulic pressure and the item without the mark * is limited by stability;

3. Lifting point is front support hole of bucket rod (excluding the weight of bucket). It is necessary to deduct from the above lifting capacity if additional accessory is installed such as bucket etc.;

Overall dimensions (mm)



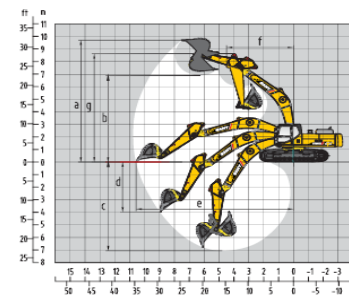
Overall dimensions: mm SY365H

A. Overall length (in transportation state)	11530
B. Overall width	3190
C. Overall height (in transportation state)	3545
D. Upper width	3150
E. Overall height (cab top)	3320
F. Width of standard track shoe	600
G. Track gauge	2590
H. Minimum ground clearance	550
I. Slewing radius of tail	3560
J. Ground contact length of track	4140
K. Track shoe length	5065

Performance Parameters SY365H

Total weight, kg	36000
Bucket capacity, m ³	1.6~1.8
Rated power, kW/rpm	212/2000
Traveling speed (high/low), km/h	5.5/3.5
Slewing speed, rpm	9.5
Gradeability	70%/35°
Ground pressure, kPa	65
Digging force of bucket, kN	235
Digging force of bucket rod, kN	180

Operating range (mm)



Operating range: mm SY365H

a. Maximum digging height	9890
b. Maximum unloading height	6920
c. Maximum digging depth	7050
d. Maximum digging depth with vertical boom	3970
e. Maximum digging distance	10780
f. Minimum slewing radius	4495
g. Maximum height at minimum slewing radius	8600

Powerful Tool for
Mining Excavation
Value Leader

17/18

Lampiran 10. Spesifikasi Excavator SY 330 H

SPECIFICATIONS SPESIFIKASI

ENGINE

Model Isuzu GH-6HK1*
 Type In-line direct injection,
 6-cylinder, 4-stroke, inter-cooling and water-cooled
 Aspiration Turbocharged
 Horse Power
 ISO 9249 / SAE J1349 212 kW 284 HP
 Rated rpm 2 000 rpm
 Numbers of Cylinders 6
 Bore 115 mm
 Stroke 125 mm
 Piston Displacement 7.8 L
 Fan Drive Method Belt drive
 Governor All-speed control, electronic CRI
 *China Tier 3 emission

HYDRAULIC SYSTEM

Number of selectable working modes 4
 Control Type Electronic positive flow control model
 Main pump
 Type Axial variable double plunger pump
 Maximum flow 2 x 300 L/min
 Relief Valve settings:
 Safety valve 34.3 MPa 350 kg/cm²
 Travel circuit 34.3 MPa 350 kg/cm²
 Swing circuit 29 MPa 296 kg/cm²
 Control circuit 3.9 MPa 40 kg/cm²
 Hydraulic cylinders
 (no. of cylinder – bore x stroke)
 Boom 2 - 140 mm x 1 407 mm
 Arm 1 - 160 mm x 1 646 mm
 Bucket 1 - 140 mm x 1 151 mm

TRANSMISSION

Max travel speed
 Hi 5.4 km/h
 Lo 3.2 km/h
 Swing Speed 9.0 rpm
 Gradeability 70% 35°
 Maximum drawbar pull 268 kN 27 320 kg

UNDERCARRIAGE

Number of track shoes (each side) 47
 Number of carrier roller 2 each side
 Number of track roller 8 each side

SY305H/330H SANY Hydraulic Excavator

DIGGING FORCE

SY305H
 Bucket digging force 204 kN
 Arm digging force 153 kN
 SY330H
 Bucket digging force 204 kN
 Arm digging force 167 kN

COOLANT & LUBRICANT

Fuel Tank 540L
 Hydraulic Oil Tank 380L
 Engine Oil 2x4.0L
 Coolant 35L
 Final Drive 11L

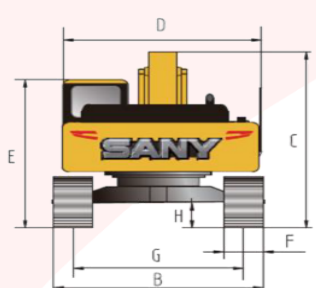
OPERATING WEIGHT

SY305H
 Operating weight including 6 150 mm Boom length, 3 200 mm Arm,
 Bucket 1.6 m³ SAE, Track shoes width 800 mm triple grouser.
*Berat operasi termasuk panjang Boom 6 150 mm, Panjang Arm
 3 200 mm, Bucket 1.6 m³ SAE, Lebar Track shoes 800 mm triple
 grouser.*
SY330H
 Operating weight including 6 150 mm Boom length, 2 900 mm
 Arm, Bucket 2.0 m³ SAE, Shoe width 800 mm triple grouser.
*Berat operasi termasuk panjang Boom 6 150 mm, Panjang Arm
 2 900 mm, Bucket 2.0 m³ SAE, Lebar Track shoes 800 mm triple
 grouser.*
 Remark:
 The excavation force of SY330H is increased by 9%, the
 loading is more vigorous and the loading speed is faster.
*Keterangan:
 Kekuatan penggalian SY330H meningkat sebesar 9%, pemuaian
 lebih kuat dan kecepatan pemuaian lebih cepat.*

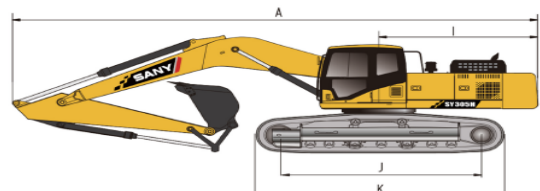
Shoes	Operating weight	Ground Pressure
800 mm	31 500 kg	62 kPa 0.63 kg/cm ²

SPECIFICATIONS SPESIFIKASI

OVERALL DIMENSIONS (mm)



Model (mm)		SY305/SY330H
A	Overall length	10 667
B	Overall width	3 190
C	Overall height (to top of Boom)	3 470
D	Upper body width (Cab top)	3 175
E	Overall height (to Top of Cab)	3 280
F	Width of standard track shoe	600
G	Track gauge	2 590
H	Ground clearance (minimum)	550
I	Tail swing radius	3 315
J	Track length on ground	3 916
K	Track overall length	4 840



BACKHOE BUCKET ARM COMBINATION

Bucket Capacity (heaped)	Width		Weight	Number of Teeth	Arm Length 2 900 mm	Arm Length 3 200 mm
	Without Side Shroud	With Side Shroud				
SAE, PCSA						
1.6 m ³	1 610 mm	1 420 mm	1 384 kg	5		●
2.0 m ³	1 794 mm	1 611 mm	1 342 kg	5	●	

Maximum material density (kg/m³):
 ● 1 800 kg/m³

Lampiran 11. Spesifikasi Excavator SY 215 ACE

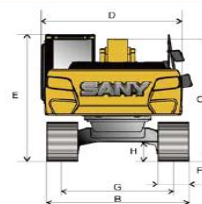
- Technical specifications

Specification	SY215ACE New supertype	Main performance	SY215ACE New supertype
Overall weight	21900kg	Traveling speed (high/low)	5.4/3.3(km/h)
Standard bucket capacity	1.1m³	Slowing speed	11rpm
		Gradeability	70%(35)
Engine		Ground pressure	47.4kPa
Model	4M50	Bucket excavator	138kN
Type	4-cylinder, 4-stroke, water-cooled, electronic injection, common rail, turbocharged	Bucket rod excavator	103kN
Rated power	118kW/2000rpm		
Maximum torque	580Nm/1600rpm		
Displacement	4.9L		

Capacity of oil and coolant		Traveling part	
Fuel tank	340L	Number of track plates	47
Hydraulic oil tank	239L	Each carrier roller side	2
Engine oil	22L	Each thrust wheel side	8
Radiator	25L	Standard track	600mm
Final drive	25.5L		



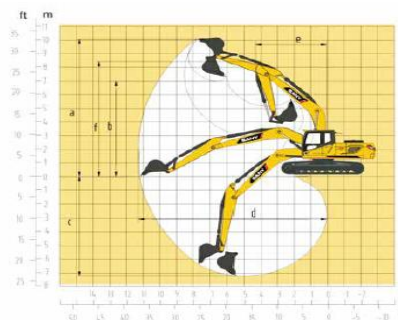
- Machine dimensions



Overall dimensions: mm SY215ACE New supertype	
A Overall length (during transportation)	9680
B Overall width	2980
C Overall height (during transportation)	3440
D Upper width	2875
E Overall height (cab top)	3440
F Width of standard track plate	600
G Track gauge	2380
H Minimum ground clearance	440
I Slewing radius of tail	2900
J Grounding length of track	3445
K Track length	4250

Performance parameters SY215ACE New supertype	
Working weight	21900
Bucket capacity m ³	1.1
Rated power kW/rpm	118/2000
Traveling speed (high/low) km/h	5.4/3.3
Slewing speed rpm	11
Gradeability	70%/35°
Ground pressure kPa	47.4
Digging force of bucket kN	138
Digging force of bucket rod kN	103

- Operating range (mm)



Name (Unit: mm)	SY215ACE New supertype
a Maximum digging height	9600
b Maximum unloading height	6730
c Maximum digging depth	6600
d Maximum digging distance	10280
e Minimum slewing radius	3730
f Maximum height at minimum slewing radius	7680

Innovation and upgrading, leading the future **19/20**

Lampiran 12. Spesifikasi Dumptruck CWE 370 64R

Spesifikasi Teknis



Fitur Baru:




Panel Instrumen
Roda Kemudi

DIMENSI (mm)	CWE 370
WB, Wheelbase	4.100 + 1.370
OL, Panjang total	8.375
OW, Lebar total	2.500
OH, Tinggi total	3.220

BERAT (kg)	
Berat kosong chassis	9.225
GVW/GCW	26.000

MESIN	GH11E 370 E5
Tipe	Mesin diesel Unit Injector dengan 6 Silinder, OHC
Isi Silinder	10,837 liter
Output maksimum	370 hp (279 kW) @ 1.900 rpm / 375 ps
Torsi maksimum	1.700 Nm @ 1.000 - 1.400 rpm / 173 kgm
Standar emisi	Euro 5

TRANSMISI	STO2009
Tipe	9-Kepcepatan Over Drive dirancang untuk torsi 2.000 Nm
Jumlah gigi	9 maju dan 1 mundur
Diameter kopling (mm)	430

SUMBU BELAKANG	RTH2611
Tipe	Tandem axle dengan hub reduction
Final gear ratio	6,37

RANGKA	FSTB080
Lebar x Tinggi x Tebal	90mm x 300mm x 8mm
Ketebalan dalam	Ketebalan 5mm mulai dari akhir mesin sampai dengan ujung chassis

REM	Full Air
Rem utama	Dual-line system dengan S-Cam dan brake chamber di posisi yang tinggi

RODA & BAN	
Ukuran ban	11.00.20.16PR
Ukuran roda	Steel wheel rims - 8.0" x 20"

KAPASITAS TANGKI	
Volume tangki BBM	315 liter
Volume tangki AdBlue *	34 / 50 liter

PERFORMA	Hub Reduction
Gradeability (tan θ)	0,70

KABIN	
Tipe	Sleeper Cab

INTERIOR	
Standar	Air conditioner Fuel coaching system Telematics



Flat Bed



Full trailer dump



Cargo (sand)



Dump



Logging



Mixer



Open Cargo

*Aksesoris dan tipe kabin dalam ilustrasi gambar, mungkin tidak termasuk dalam paket penjualan.
 *Kami berhak mengubah spesifikasi produk tanpa pemberitahuan sebelumnya.

PT UD Astra Motor Indonesia (Mar 2022)

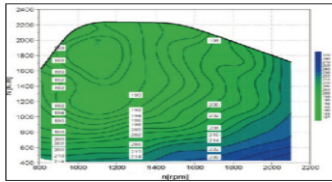
Lampiran 13. Spesifikasi Dumptruck SYZ 326 C

DURABILITY



- ◆ Reliable and high quality. Manufactured by Sany, which is ranked 2nd worldwide and the 1st nationwide in construction machinery industry.
- ◆ SANY pump truck patented steel technology for chassis frame and leaf spring, the bearing performance is improved by 10%.
- ◆ Stringent testing in Sany's self-built test field. Road test with fully loaded and high intensity for 30,000 Km, which is five times more intensive than the one done in Hainan National test field.

STRONG POWER



- ◆ Beiben Axle constitute the golden power train. Optimizing the configuration according to the application, the climbing performance is improved by 10% and the fuel consumption decreases of 5%.
- ◆ Engine is reliable, low maintainance cost, and powerful.
- ◆ transmission, standard 2400 N.m torque. Higher transmission efficiency, more stable output efficiency.
- ◆ The standard 16T Beiben cast steel axles, military quality, safe, reliable and perform a quality work.

SAFE & COMFORTABLE



- ◆ Equipped with high-end cab, large space, luxury interior, the integration of driving entertainment.
- ◆ Integrally stamped and formed cabin frame, meet the European certification of positive impact and top pressure inspection.
- ◆ layout, lower center of gravity that prevents rollovers, excellent ground clearance.

TECHNICAL SPECIFICATIONS

Model		SYZ326C-8W(R)
Overall Parameters	Code	ZZX200000045
	Rudder Direction	Right
	Curb Weight(kg)	16500
	Full Load Weight(kg)	55500
	Dimension (L×W×H)(mm)	9150×2540×3580
	Wheel Base(mm)	4200+1400
	Frame(mm)	860×316×(8+8)
	Min. Ground Clearance(mm)	≥300
	Min. turning diameter(m)	≤22
	Braking Distance $V_0=30\text{km/h(m)}$	≤10(Full load); ≤9(Empty load)
Chassis	Engine	Weichai WP12.430E201
	Displacement(L)	11.596
	Rated Power/Rev Speed(kW/rpm)	316/1900
	Maximum Torque/Rev Speed(N.m/rpm)	2000/1000-1400
	Emission Standard	Euro II
	Transmission	Fast 12JSDX240T
	Front Axle(t)	9
	Middle, Rear Axle(t)	2×16
	Cab	Sany Cab CB318
	Tyre	12.00R20
Truck	Brake	Pneumatic dual-circuit braking system with drum
	Fuel Tank(L)	400L
	Cargo Capacity(m^3)	26
	Cargo Empty(mm)	6200×2350×1800
	Lifting Angle(°)	45°
Opt. func.	Lifting Mode	Front Lifting
	GPS Terminal-EMEA	•
	ABS	-

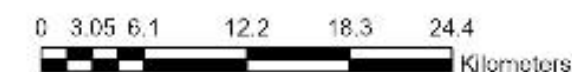
SANY HEAVY INDUSTRY CO., LTD.

SANY Industry Town, Changsha Economic and Technological Development Zone, Hunan Province, China

Distributor Info.

Lampiran 14. Peta Area Lahan PT Roda Teknik

PETA AREA LAHAN PT RODA TEHNIK
 JOBSITE PT INDONESIA BATU PRIMA ENERGI
 KECAMATAN SUNGAI LILIN DAN KELUANG
 KAB. MUSI BANYUASIN
 PROVINSI SUMATERA SELATAN



Scale: 1:10,000

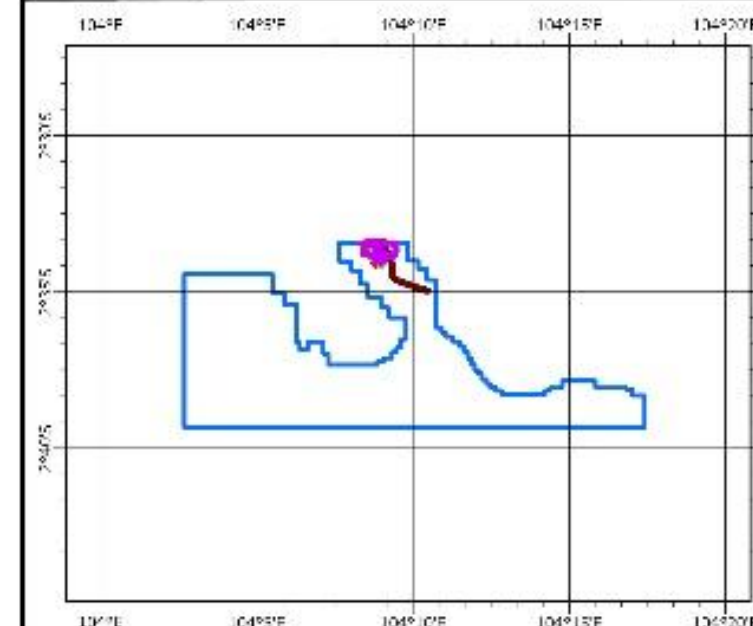
Legend

- | | |
|-------------------|-------------------|
| LAHAN BELUM BEBAS | LAHAN BEBAS |
| JALAN | BLOCK PENAMBANGAN |
| WIUP IBPE | |

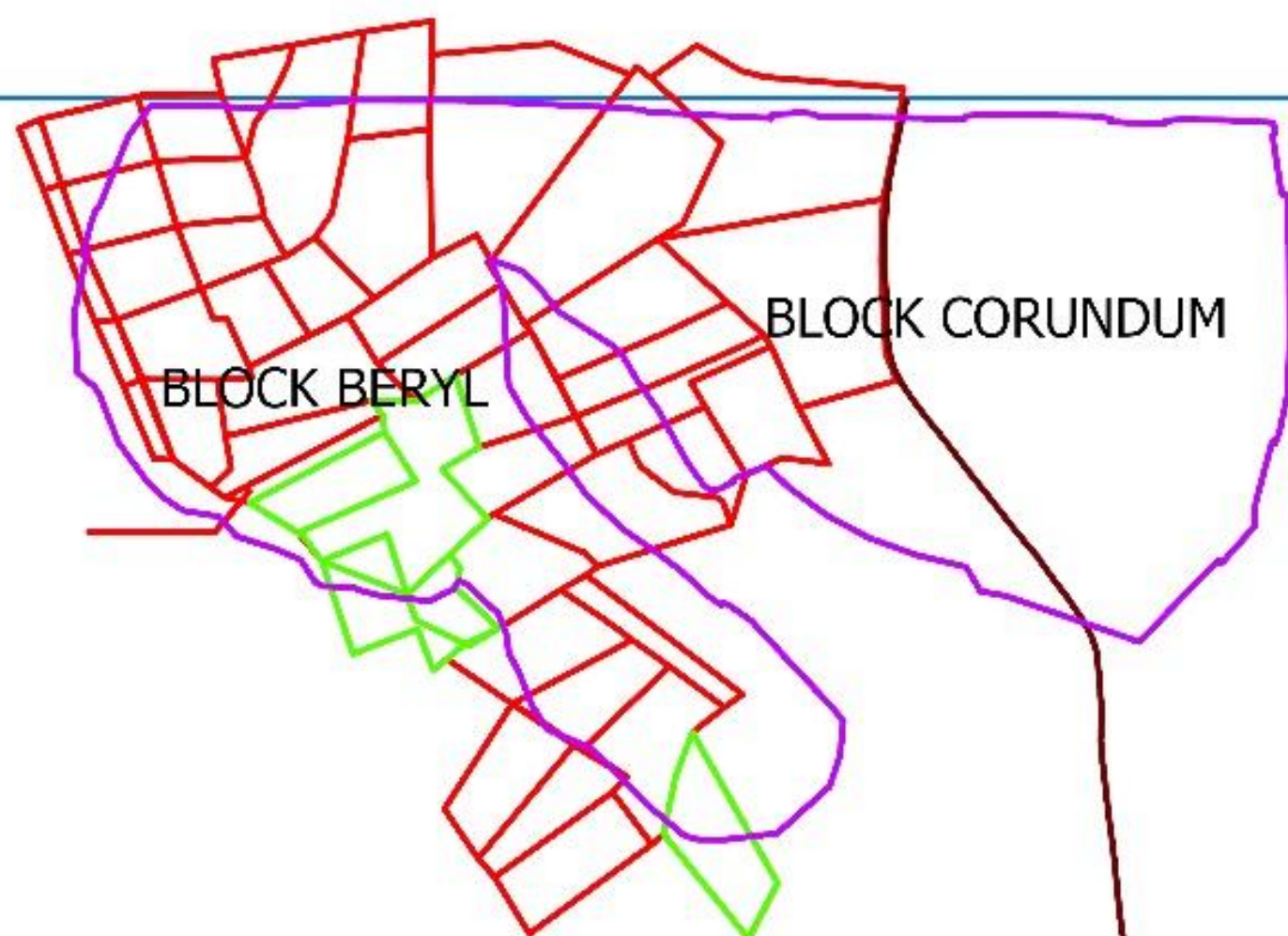
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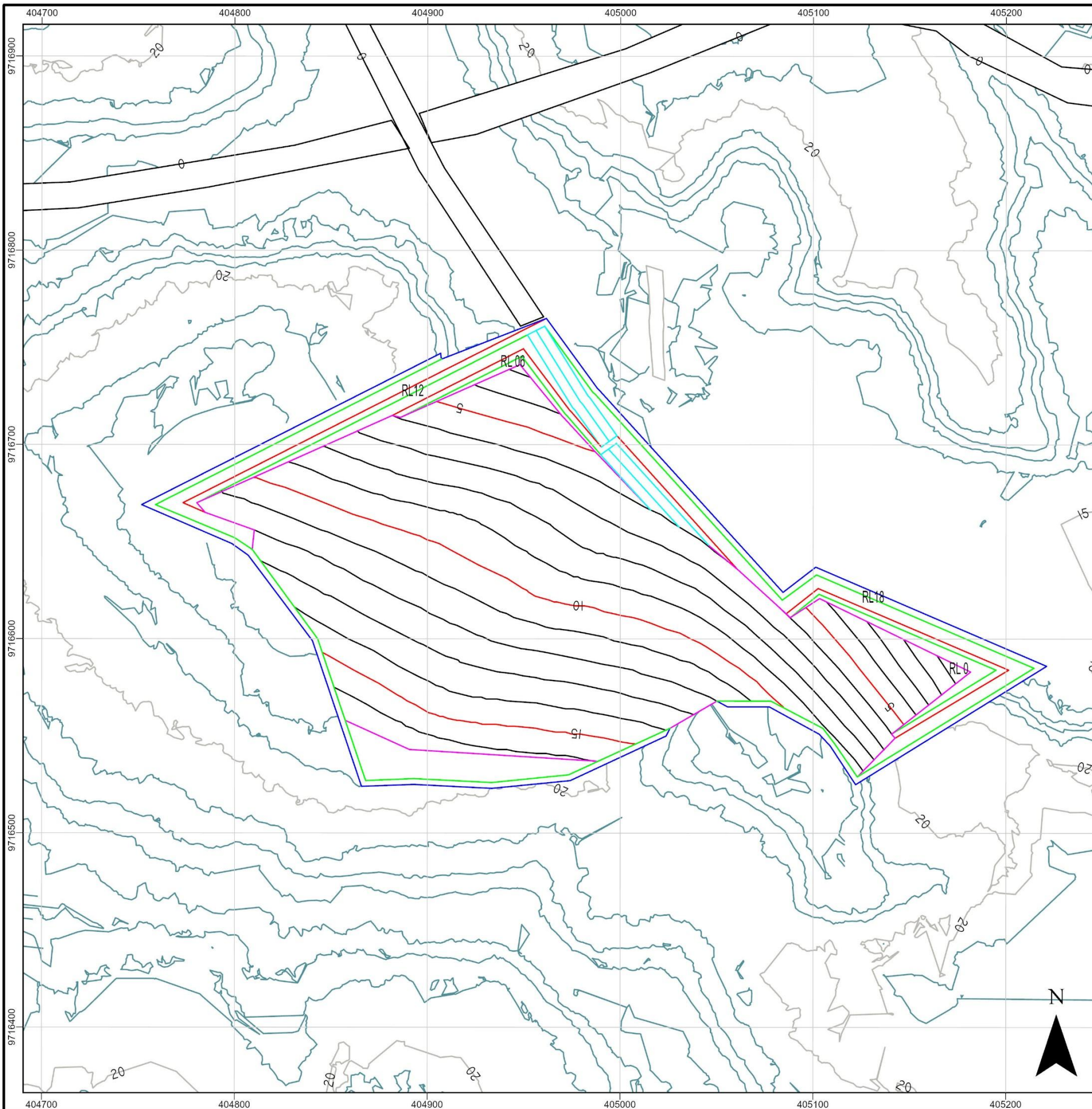
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 Map Units: Degree



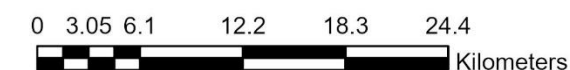
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Lampiran 15. Peta Desain Kuartal I



PETA DESAIN PENAMBANGAN
KUARTAL I PT RODA TEHNIK
JOBSITE PT INDONESIA BATU PRIMA ENERGI
KECAMATAN SUNGAI LILIN DAN KELUANG
KAB. MUSI BANYUASIN
PROVINSI SUMATERA SELATAN



Scale: 1:2,000

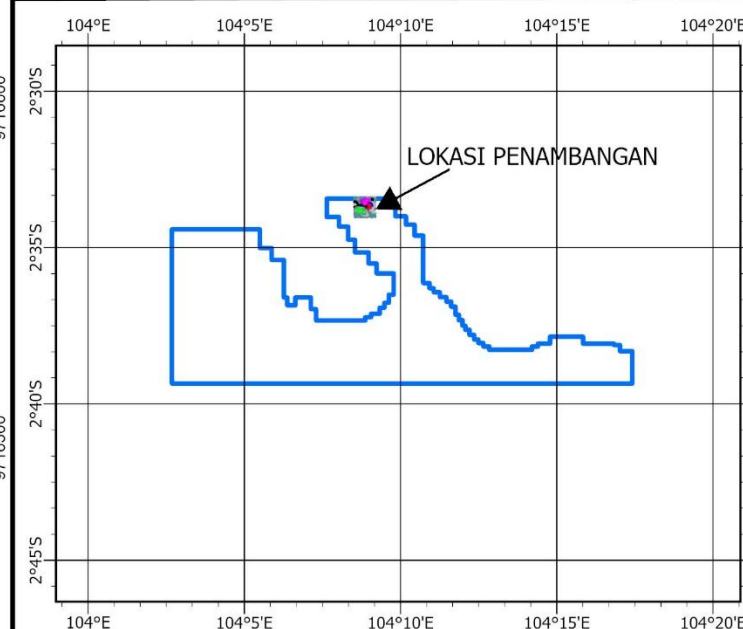
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- ▬ TOE
- ▬ JALAN
- ▬ BOUNDARY PENAMBANGAN
- ▬ CREST

Spatial Reference :

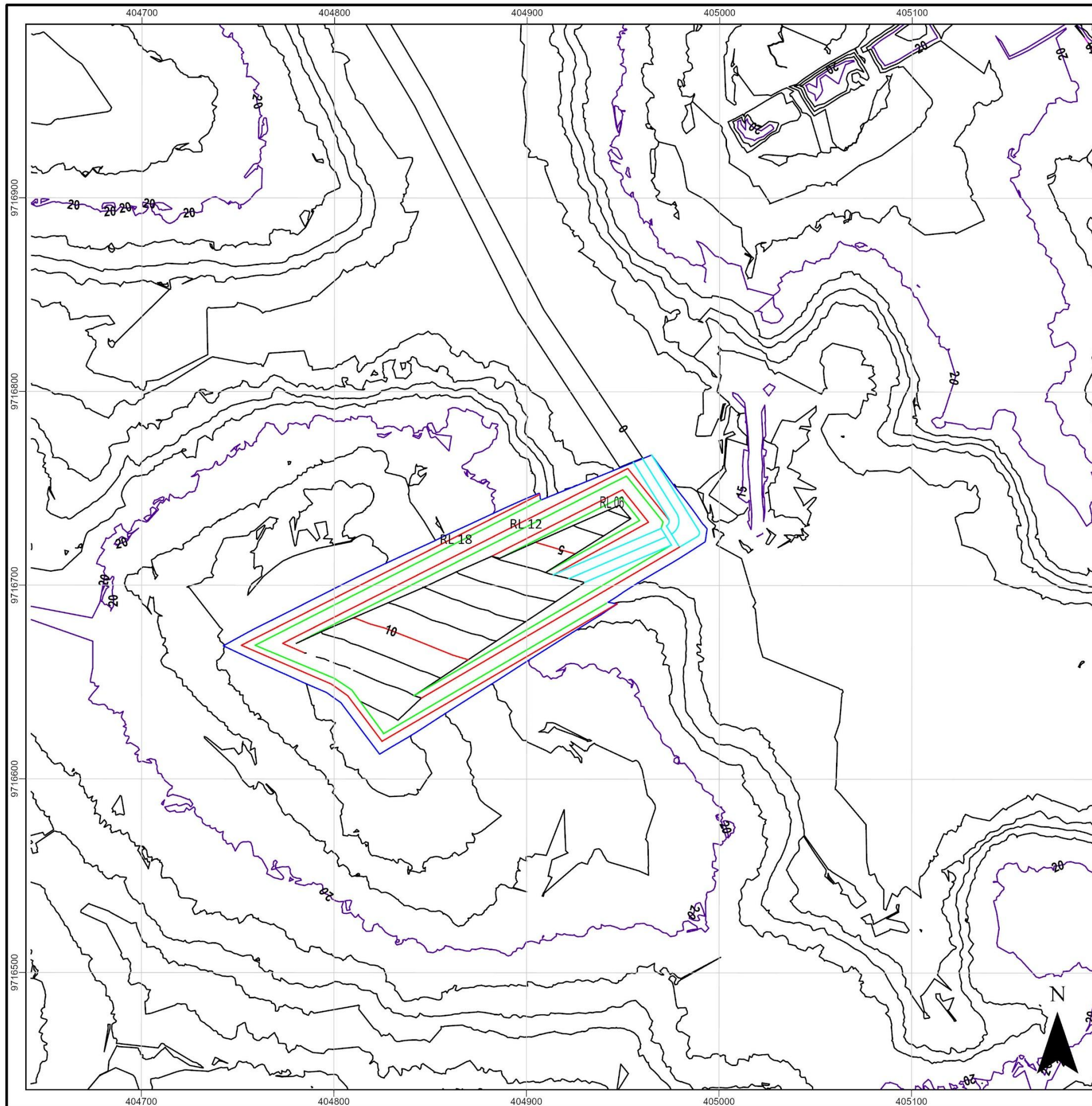
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Datum: WGS 1984
Map Units: Degree

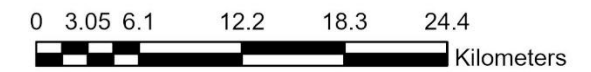


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Lampiran 16. Desain Bulan Januari 2024



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KAB. MUSI BANYUASIN
PROVINSI SUMATERA SELATAN



Scale: 1:2,000

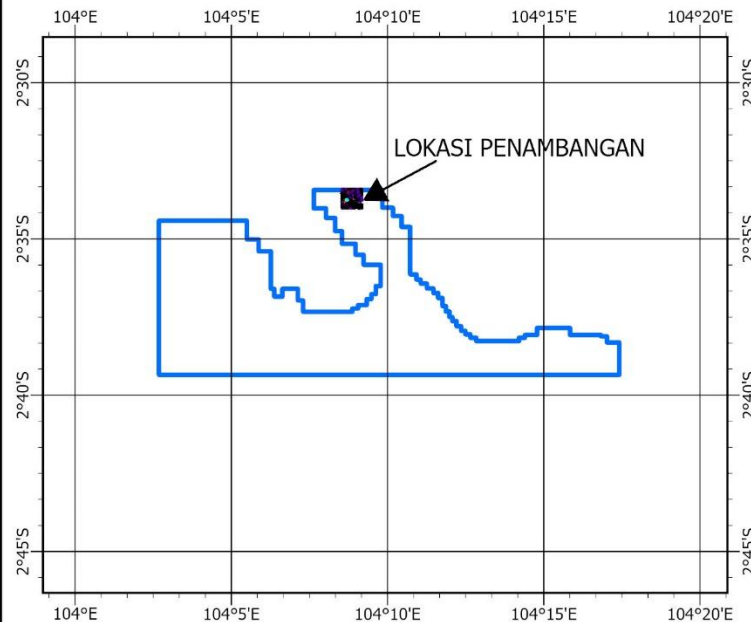
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- TOE
- JALAN
- BOUNDARY PENAMBANGAN
- CREST

Spatial Reference :

Name: GCS WGS 1984
GCS: GCS WGS 1984

Datum: WGS 1984
Map Units: Degree



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Lampiran 17. Desain Bulan Febuari 2024

PETA DESAIN PENAMBANGAN
 BULAN FEBRUARI PT RODA TEHNIK
 JOBSITE PT INDONESIA BATU PRIMA ENERGI
 KECAMATAN SUNGAI LILIN DAN KELUANG
 KAB. MUSI BANYUASIN
 PROVINSI SUMATERA SELATAN



Scale: 1:2,000

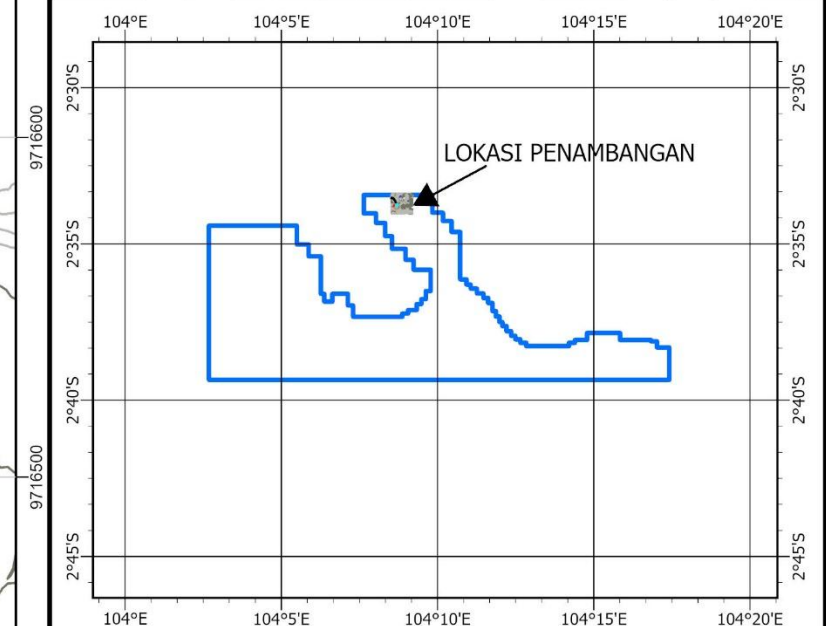
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- TOE
- JALAN
- BOUNDARY PENAMBANGAN
- CREST

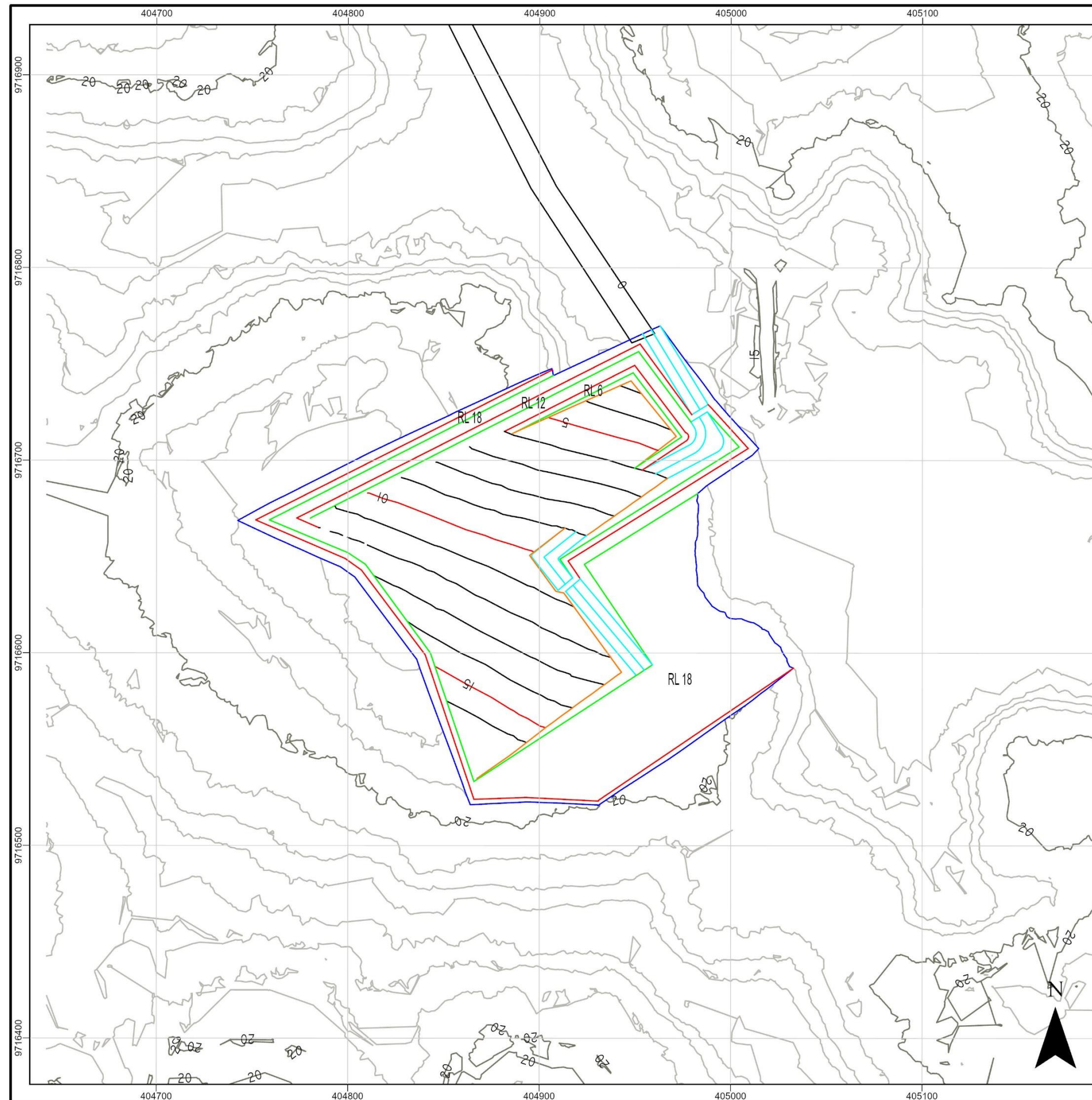
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Datum: WGS 1984
 Map Units: Degree



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Lampiran 18. Desain Bulan Maret 2024

