



**SLP PERUNDING SDN BHD** 198501011642 (144094-A)  
**CONSULTING ENGINEERS**

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Ruj. Kami : 2019/8829/PETRON-Behrang/TgMalim/164  
Ruj. Tuan :  
Tarikh : 11 April 2025

**KORIDOR UTILITI DARUL RIDZUAN SDN BHD**

B-G-11, Greentown Suria, Jalan  
Dato' Seri Ahmad Said, 30450  
Ipoh,  
Perak Darul Ridzuan

U/P : Pegawai Koridor Negeri

Tuan,

**CADANGAN MEMBINA SEBUAH STESEN MINYAK SATU TINGKAT YANG MENDUNGKI KEDAI SERBAGUNA, TANDAS DAN SURAU, 1 UNIT RUMAH SAMPAH SERTA 1 UNIT PENCAWANG ELEKTRIK PADAT, SELUAD 1 EKAR, DI ATAS LOT PT 21037, KM 382.80, LEBUHRAYA UTARA-SELATAN (BERSEBELAHAN HENTIAN REHAT BEHRANG ARAH UTARA), MUKIM HULU BERNAM TIMUR, DAERAH MUALLIM, PERAK DARUL RIDZUAN UNTUK TETUAN PETRON MALAYSIA REFINING & MARKETING BHD.**

Per : Serahan Dokumen Lengkap Bagi Permohonan Kelulusan Izin Lalu Dengan segala hormatnya perkara di atas adalah dirujuk.

2. Bersama-sama ini kami sertakan dokumen-dokumen/lampiran berkaitan untuk rujukan dan kelulusan pihak Tuan:

- i. Lukisan Tapak (Pelan Skematik)
- ii. Peta Penandaan Lokasi
- iii. Gambar Lokasi

3. Mohon pihak tuan mengaturkan satu tarikh lawatan tapak bersama bagi menentukan serta meluluskan cadangan laluan yang dinyatakan seperti di atas.

4. Sebarang pertanyaan atau kemusykilan berhubung perkara ini, pihak tuan boleh menghubungi pegawai kami Dato' Sri Fernando Yu di talian 012-3055116 dan pada emel fernandoyu.slp@gmail.com untuk keterangan lanjut.

5. Perhatian serta kerjasama pihak tuan amat dihargai dan diucapkan terima kasih.

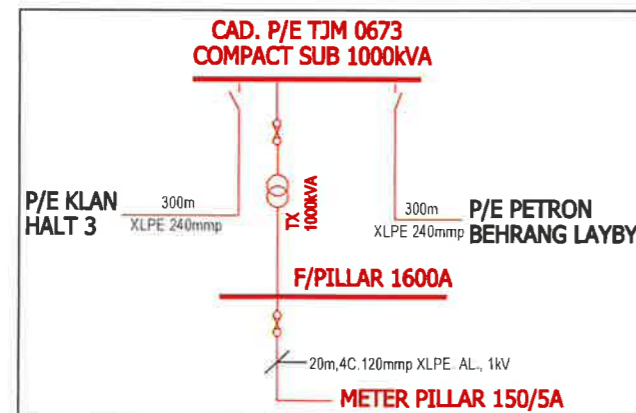
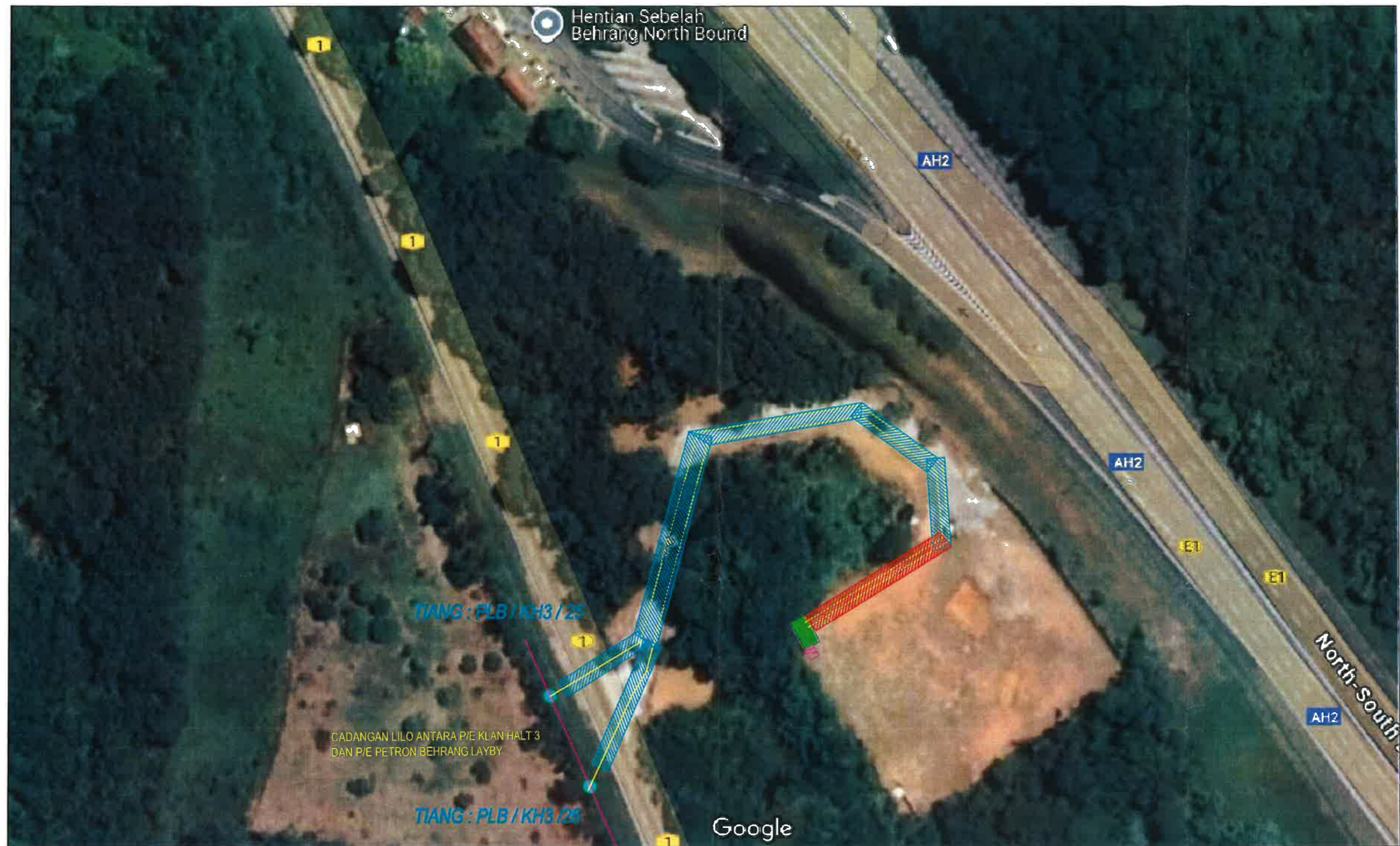
Sekian.

Yang Benar,

**SLP PERUNDING SDN BHD**

**DATO' SRI FERNANDO YU**

Pengarah/ Ketua Pegawai Operasi



PETUNJUK	
	SEDIADA ABC 3X240mm, 11kV CADANGAN U/G XLPE 240mm, 3C, 11kV
	HDD PAIP PN10 150mm (Disediakan Oleh Pemaju)
	COMPACT SUB 1000kVA
	METER PILLAR 150/5A
	PAIP PVC CLASS B (Telah Disediakan Oleh Pemaju)

TENAGA NASIONAL BERHAD	
Kawasan : PERAK	Daerah : TG. MALIM
No. Fail : TJM 0673	
CADANGAN MEMBINA SEBUAH STESEN MINYAK SATU TINGKAT YANG MANGANDUNGI KEDAI SERBAGUNA, TANDAS DAN SURAU, 1 UNIT RUMAH SAMPAH SERTA 1 UNIT PENCAWANG ELEKTRIK PADAT, SELUAS 1.0 EKAR, DI ATAS LOT PT 21037, KM 382.80 LEBUH UTARA-SELATAN (BERSEBELAHAN HENTIAN REHAT BEHRANG ARAH UTARA), MUKIM HULU BERNAM TIMUR, DAERAH MUALLIM, PERAK DARUL RIDZUAN UNTUK TETUAN PETRON MALAYSIA REFFINING & MARKETING SDN. BHD.	
Dilukis : HADRI	Diluluskan : EN SYUKRI
Disemak : IZZAT	Tarikh : 14/3/2025
No. Lukisan : C:\2-BEKALAN\CPP\TJM\FY2024\TJM 0673 - PETRON	

**TABLE 1 - GEOMETRY**

ROAD DESIGN INFORMATION AND CRITERIA							
Road Name	Road Area	Road Design Standard	Category Of Road	Terrain	Design speed (km/hr)	Letter Height (mm)	
Lebuhraya (State / Federal) / Rautan Sublebuhraya (Belting KM SR 86) / Arah Utara	Rural	R1	Expressway	F	80	330	3.750m

**TABLE 2 - TAPER LENGTH CALCULATION**

a)  $Td = \frac{Y}{Vd} \times \frac{Vd}{Vt}$       b)  $Ta = \frac{Y}{Vt} \times \frac{Vt}{Vd}$

$Y = 90 \text{ km/hr}$        $Y = 90 \text{ km/hr}$

$Vd = 7.6 \times 0.9 = 6.84$        $Vd = 7.6 \times 0.8 = 6.08$

$Vt = 124.0 \text{ km/hr}$        $Vt = 124.0 \text{ km/hr}$

**LEGEND**

TL - Min. Length of Pavement Taper For Diverging Movement (m)

Ta - Min. Length of Pavement Taper For Merging Movement (m)

VL - Lateral Deflection Of Diverging Traffic (m)

Vm - Lateral Deflection Of Merging Traffic (m)

**TABLE 3 - LENGTH OF DECELERATION LANE**

Design Speed Of Approach Road (km/hr)

Design Speed (km/hr)	0	20	30	40	50	60	80
0	-	-	-	-	-	-	-
45	45	40	32	-	-	-	-
50	50	54	46	32	-	-	-
60	60	74	64	50	28	-	-
80	120	112	104	84	62	64	-
100	170	162	152	144	120	116	80

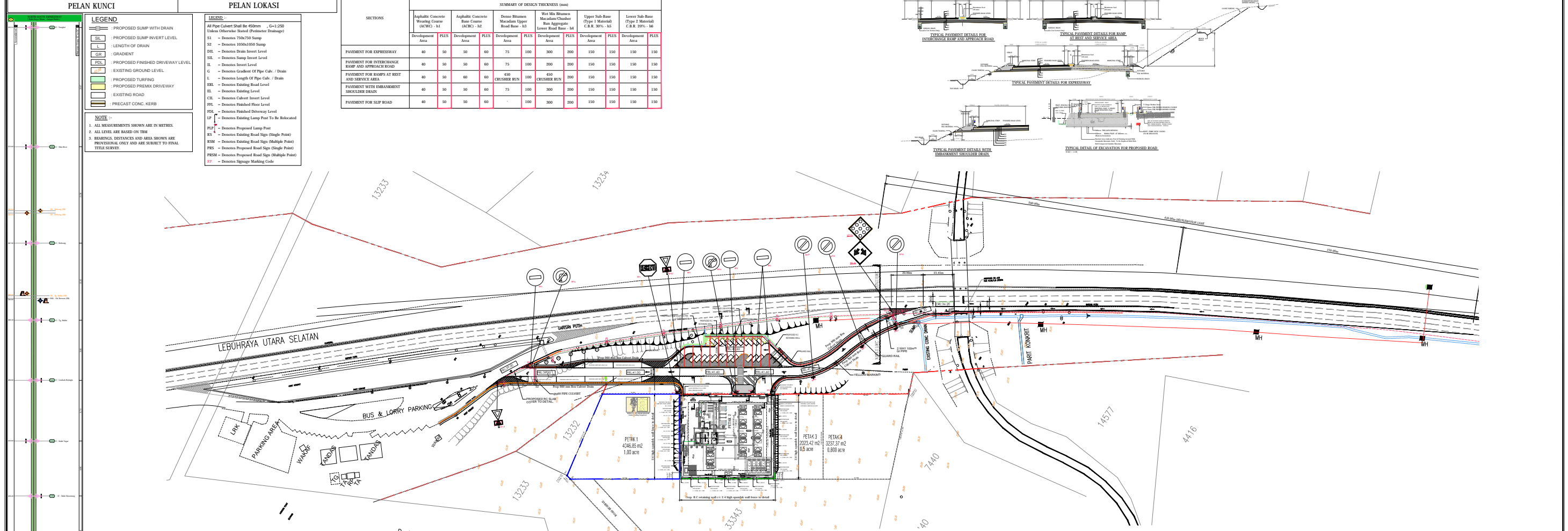
**TABLE 4 - LENGTH OF ACCELERATION LANE**

Design Speed Of Road Being Entered (km/hr)

Design Speed (km/hr)	0	20	30	40	50	60	80
0	-	-	-	-	-	-	-
45	45	45	35	-	-	-	-
50	50	55	45	30	-	-	-
60	120	120	100	75	60	-	-
80	220	215	200	180	145	100	-
100	320	315	290	270	250	200	100

**TABLE 1 - PAVEMENT LAYER THICKNESS**

SECTIONS	SUMMARY OF DESIGN THICKNESS (mm)											
	Asphaltic Concrete Wearing Course (ACWC) - A1		Asphaltic Concrete Base Course (ACBC) - A1		Dense Bitumen Macadam Upper Road Base - A1		Wet Mix Bitumen Macadam/Chamber Run Aggregate Lower Road Base - A1		Upper Sub-Base (Type 1 Material) C.R. 20% - A1		Lower Sub-Base (Type 2 Material) C.R. 20% - A1	
Development Area	PLUS	Development Area	PLUS	Development Area	PLUS	Development Area	PLUS	Development Area	PLUS	Development Area	PLUS	
PAVEMENT FOR EXPRESSWAY	40	50	30	40	75	100	300	200	150	150	150	150
PAVEMENT FOR INTERCHANGE RAMP AND APPROACH ROAD	40	50	30	40	75	100	200	200	150	150	150	150
PAVEMENT FOR RAMP AT JUNCTION AND SERVICE AREA	40	50	40	40	400	100	400	200	150	150	150	150
PAVEMENT WITH EMBANKMENT SKEWER DRAIN	40	50	30	40	75	100	300	200	150	150	150	150
PAVEMENT FOR SLIP ROAD	40	50	30	40	75	100	300	200	150	150	150	150



**PELAN KUNCI**

**PELAN LOKASI**

**LEGEND**

PROPOSED SLUMP WITH DRAIN

PROPOSED FINISHED DRIVEWAY LEVEL

EXISTING GROUND LEVEL

PROPOSED TURFING

PROPOSED PREMIX DRIVEWAY

EXISTING ROAD

PRECAST CONC. KERB

**LEGEND**

All Pipe Culvert Shall Be 450mm, G=1:250

S1 - Densitas 1700/1700 Sump

S2 - Densitas 1050/1050 Sump

D1L - Densitas Drain Invert Level

D1S - Densitas Sump Invert Level

R - Densitas Invert Level

C - Densitas Gradient Of Pipe Culi / Drain

L - Densitas Length Of Pipe Culi / Drain

EBL - Densitas Existing Road Level

EL - Densitas Existing Level

CEL - Densitas Culvert Invert Level

FEL - Densitas Finished Floor Level

FEL - Densitas Finished Driveway Level

LP - Densitas Existing Lamp Post To Be Relocated

PLP - Densitas Proposed Lamp Post

ES - Densitas Existing Road Signs (Single Point)

ESM - Densitas Existing Road Signs (Multiple Point)

PEL - Densitas Proposed Road Signs (Single Point)

PEM - Densitas Proposed Road Signs (Multiple Point)

PSM - Densitas Proposed Road Signs (Multiple Point)

SP - Densitas Signage Marking Code

**NOTE**

1. ALL MEASUREMENTS SHOWN ARE IN METRES.

2. ALL LEVELS ARE BASED ON TBM.

3. BEARING, DISTANCES AND AREA SHOWN ARE PROVISIONAL ONLY AND ARE SUBJECT TO FINAL TITLE SURVEY.

**REVISION**

No.	Date	Description	Appr.
1		ROAD AND DRAINAGE KEY PLAN, LOCATION PLAN AND SITE PLAN	
2		REVISION 2022	

**PROJEK**

LEBUHRAYA UTARA SELATAN

CADANGAN MEMBINA SEBUAH STESEN MINYAK YANG MENDANGENGI SEMPANG DI KAMPUNG BAHARU BERHANG, MUKIM ULU BERHANG, DAERAH BATANG PADANG KM 82.80, LEBUHRAYA UTARA SELATAN, PERAK DARUL RIDZUAN

UNTUK TETAPAN

PETRON MALAYSIA REFINING & MARKETING BHD.

No. Rujukan Persekitaran : No. Gub. / No. Gub. / No. Gub.

Tarikh : 03 NOV 2023

Projek : SPL17/PETRON/8829/LLM/RD/01

**LEBUHRAYA MALAYSIA**

PROJEK LEBUHRAYA UTARA SELATAN

**PETRON MALAYSIA REFINING & MARKETING BERHAD**

Projek : LEBUHRAYA UTARA SELATAN

**SLP PERUNDING SON BHD**

CONSULTING ENGINEERS

**IR. LEE HEUK PING**

REGISTERED CIVIL ENGINEER

**REVISION**

1:1000