Preliminary Site Investigation

Proposed Development at:

Corner Railway Parade & Sladen Street, East

Henty, NSW, 2658

Lot 1, 2 & 3 / - / DP12560

N5529

30th June 2021

Report distribution

Preliminary Site Investigation

Address: Corner Railway Parade & Sladen Street, East Henty, NSW, 2658

Application Number: N5529

Date of Report Written: 30th June 2021

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1	FINAL Report	N5529	30th June 2021	Nick Caltabiano
Issued By:			**Nick Caltabiano**	

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APPENDICES

Executive Summary

NEO Consulting Pty Ltd was appointed by North Manilla Petroleum ('the client') to undertake a Preliminary Site Investigation (PSI) for the property located at Corner Railway Parade & Sladen Street, East Henty, NSW, 2658 ('the site').

The proposed plans for the site include:

1) The construction of a fuel station with a light and heavy vehicle re-fueling area; and

2) The installation of an Underground Petroleum Storage System (UPSS).

The objective of the PSI was to provide a preliminary assessment of potentially contaminating activities which may have impacted the site, and confirm that the site is suitable for the proposed development.

A site investigation was conducted on the 15th June 2021 by NEO Consulting. The site was unsealed across the entire extent, with healthy vegetation around the perimeter and no visual or aromatic indications of contamination. The Greater Hume Council possesses documents indicating that a previous UPSS system has been removed from the site. The search undertaken with Safework NSW, for the historical storage of hazardous goods returned no results. Historical ownership search confirmed there was a garage which operated, which may have operated a UPSS, however no records beyond 1968 are show and hence may be why NSW SafeWork has no records.

Six (6) soil samples were obtained from across the site, and a groundwater monitoring well (BH4) installed and sampled. Samples were submitted for chemical analyiss at SGS Alexandria, a NATA accredited laboratory. These samples were tested for CoPC including Benzene, Toluene, Ethylbenzene & Xylenes (BTEX), Total Recoverable Hydrocarbons (TRH), Pesticides (OCP/OPP), Polycyclic Aromatic Hydrocarbons (PAH), heavy metals and asbestos.

Analytical results indicate no significant contamination at within the site. Therefore, NEO Consulting finds that the site is suitable for the proposed land use, providing the recommendations within section 15 of this report are undertaken.

1. Introduction

NEO Consulting Pty Ltd was commissioned by North Manilla Petroleum ('the client') to undertake a Preliminary Site Investigation (PSI) for the property located at Corner Railway Parade & Sladen Street, East Henty, NSW, 2658 ('the site'). The site is legally identified as Lot 1, 2 & 3 / - / DP12560 and has a total area of approximately 2,290 m^2. The site is currently zoned as RU5- Village.

The proposed plans for the site include:

1) The construction of a fuel station with a light and heavy vehicle re-fueling area; and

2) The installation of an Underground Petroleum Storage System (UPSS).

This PSI was requested by the council, and the report was aimed to provide a preliminary assessment of potentially contaminating activities which may have impacted the site. The format of this report follows the NSW EPA "*Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*" (2020). In addition, NEO Consulting will provide recommendations if further investigation on site is required.

A site inspection was undertaken on the 15th June 2021 by NEO Consulting. Reporting and photos were conducted on the day of inspection and with reference to the relevant regulatory criteria. Further information from the inspection is outlined in Section 4 of this report.

2. Scope of Work

The PSI has been prepared in general accordance with the following regulatory framework:

- NSW Environmental Protection Authority (EPA) "*Consultants Reporting on Contaminated Land: Contaminated Land Guidelines*" (2020);
- NEPM (2013), *Schedule B2 – Guideline on Site Characterisation;*

- State Environment Protection Policy 55 (SEPP 55). Remediation of Land Under the Environmental Planning and Assessment Act 1997; and
- National Environmental Protection (Assessment of Site Contamination) Measure – National Environmental Protection Council 2013.

The scope of works required to complete the PSI includes:

- A site inspection for evidence of sources of potential contamination on-site and neighbouring properties;
- A soil sampling program, and laboratory testing for CoPC including Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Polycyclic Aromatic Hydrocarbons (PAH), Organochlorine Pesticides (OCP), Organophosphorus Pesticides (OPP), heavy metals and asbestos.
- One representative ground water sample taken from a water monitoring well installed by NEO at the location of BH4.
- Historical investigations relating to the site;
- Information on the current and Historical Certificates of Title;
- Local Council records and planning certificates;
- NSW EPA environmental contaminated lands register;
- Protection of the Environment Operations (POEO) Act public register;
- Dial-Before-You-Dig enquiry for an evaluation into local underground services and assets;
- Review of local geological and hydrogeological information, including an evaluation of the WaterNSW registered groundwater bore database;
- Acid sulphate soils (ASS) data maps;
- Establish whether data gaps may exist within the investigation;
- Development of a Conceptual Site Model (CSM) to identify the connections between potential sources of contamination, exposure pathways, and human/ecological receptors; and

- Recommendations for additional investigations (if any), based on the identified data gaps and findings of the PSI.

3. Site Details

Table 1. Site Details

Address	**Corner Railway Parade & Sladen Street, East Henty, NSW, 2658**
Deposited Plan	Lot 1, 2 & 3 / - / DP12560
Zoning	RU5- Village
Locality Map	**Figure 1**
Site Plan	**Figure 2**
Area (approx.)	2290 m^2

Table 2. Surrounding Land-Use Adjacent to the Site

Direction from Site	Land-Use
North	Sladen Street, residential and rural properties
East	Sladen Street, residential and rural properties
West	Railway Parade, residential properties
South	Fuel stations, auto-mechanic's, residential properties

4. Site Condition

A qualified environmental consultant inspected the site on the 15th June 2021. Site photographs are provided in **Appendix A**. Observations noted during the inspection are summarised below:

- The site was composed of three (3) vacant lots.
- Previous UPSS documented on-site, however no remaining infrastructure or indication of contamination was observed.
- The site contained chain-link and steel fences around its perimeter, the northern border was unfenced.
- This site was located on a corner block, at the intersection between Railway Parade & Sladen Street.
- No signs of contamination were observed during inspection.
- The topsoil was composed of an organic-rich silt layer to approximately 1m bgl.

- The soil underlying the fill was composed of dense orange clay that increased in moisture content with depth.
- During the installation of a groundwater monitoring well at location BH4, the groundwater underlying the site was encountered. No signs of contamination were observed.

Within a 500m radius, surrounding sites include a number of other residential and rural properties, as well as Liberty Henty, Shell Henty, Weston Automotive Repairs, Henty Public School and Henty Automotive. The closest water body to the site is Buckargingah Creek, located approximately 300 metres north of the site.

5. Site History

The title history and supporting documents can be found in **Appendix B**.

Table 3. Title History

Year	**Propietor(s)**
	(Lots 1, 2 & 3 DP 12560 – A/C 4272-206)
2018 – todate	North Manilla Petroleum Pty Ltd *(ACN 612 851 368)*
1999 – 2018	Henty Machinery Field Days Co-Operative Limited
1998 – 1999	Robert Michael Harrison
1996 – 1998	Edward Arthur Dale
1993 – 1996	Barry James Schneider, farmer
	(Lots 1, 2 & 3 DP 12560 – Area 2 Roods 5 ¾ Perches – CTVol 4272 Fol 206)
1968 – 1993	Barry James Schneider, farmer
1968 – 1968	Geier Farm Equipment Pty Limited
1953 – 1968	Edward Clarence Geier, garage proprietor
1933 – 1953	Stanley Robert Doig, garage proprietor
1933 – 1933	John Barrie, junior, contractor
1929 – 1933	Bendigo Mutual Permanent Land and Building Society

1929 – 1929	John Barrie, junior, contractor
	(Lots 1, 2 & 3 DP 12560 and other lands – Total Area 13 Acres 0 Roods 4 Perches – CTVol 4037 Fol 82)
1927 – 1929	William Henry Murrell, builder
	(Part Portion 1 Parish Henty – Area 116 Acres 1 Rood 20 Perches – CTVol 3450 Fol 100)
1923 – 1927	William John Scott, grazier William Henry Murrell, builder John Joseph Crennan, auctioneer Albert Gordon Clements, storekeeper

From the above results, there is no specific confirmation that the site operated a service station, however from 1923 there is evidence that there was a store onsite, with 1933 – 1968 records showing evidence of a garage proprietor. It is assumed this is associated with the historical UPSS, which appears to have ceased operating in 1968, hence no records with NSW SafeWork.

5.2 Section 10.7 (2) Planning Certificate

A Section 10.7 Planning Certificate describes how a property may be used and the restrictions on development. The Planning Certificate is issued under Section 149 of the Environmental Planning and Assessment Act 1979. At the time of reporting, NEO Consulting could not access the Planning Certificate.

5.3 NSW EPA Contaminated Land Register

A search within the NSW EPA contaminated land register was undertaken for the site, with no results for the site or within 200m.

5.4 Protection of the Environment Operations Act (POEO) Public Register

A search on the POEO public register of licensed and delicensed premises (DECC) was undertaken for the site, with no results for the site or within 200m.

5.5 SafeWork NSW Hazardous Goods

A Safework NSW Hazardous Goods Search was undertaken as part of this investigation; This search indicated that Safework NSW has no records of hazardous goods being stored at this location.

5.6 Product Spill and Loss History

The site inspection carried out found no evidence to suggest chemical contamination impact on the site (i.e. chemical staining, unhealthy vegetation). A soil sampling program was undertaken to ascertain the accuracy of these observations.

5.7 Dial Before You Dig

A review of assets and services via a Dial-Before-You-Dig request suggests no contamination is expected to impact the site via underground services and assets or act as a portal to transport potential contamination offsite.

6. Site Geology and Hydrology

The Geological Map of Wagga Wagga (Geological Series Sheet S1 55-15, Scale 1:250,000, Edition 1, 1966), published by the Department of Minerals and Energy indicates the residual soil within East Henty is underlain by alluvium-gravel, sand, silt, clay.

A groundwater bore search was conducted on 28th June 2021 and no registered groundwater bores were detected within 500m of the proposed site.

It was beyond the scope of works to study the groundwater flow direction. However, based on regional topography and the nearest surface water source, groundwater is expected to flow towards the north-east.

7. Acid Sulphate Soils

To determine whether there is a potential for ASS to be present at the site, information was reviewed utilising the NSW Office of Environment and Heritage and eSPADE map viewer. This search indicated that the site is located in an area in which there is 'no available data'.

8. Areas of Environmental Concern

Based on the above information, the potential Areas of Environmental Concern (AEC) and their associated Contaminants of Potential Concern (CoPC) for the site were identified and summarised in **Table 4** below.

Table 4. Potential Areas and Contaminants of Concern

Potential Areas of Concern	Potentially Contaminating/ Hazardous Activity	CoPCs	Likelihood of Impact to Site	Comments
Entire site	Importation of fill material from unknown origin.	Metals, TRH, BTEX, OCP/OPP, Asbestos	Low	Based on site observations, the presence of imported fill material is possible, a thick layer of silt was found above the natural clay which underlies the site.
	Contamination due to previous UPSS.	Metals, TRH, BTEX, PAH	Low	Based on site observations, it is unlikely that any residual contamination remains from the historical UPSS on the property.

Abbreviations: Asbestos Containing Materials (ACM), Benzene, Toluene, Ethylbenzene and Xylene (BTEX), Ozone Depleting Substances (ODS), Polychlorinated biphenyls (PCBs), Polycyclic Aromatic Hydrocarbon (PAH), Total Recoverable Hydrocarbons (TRH), Synthetic Mineral Fibres (SMF).

9. Conceptual Site Model

A Conceptual Site Model (CSM) has been developed and presented in **Table 5** below, and provides a representation of the potential risks associated with the connections between the following elements:

- Potential contamination sources and their associated CoPCs;
- Potential human receptors that may be impacted by the site contamination are current and future site users including occupants to the dwelling/infrastructures onsite, site workers and the general public within the immediate vicinity of the site;
- Potential environmental receptors to the site including but not limited to: groundwater and surface water bodies, residual soils at and/or nearby the site.
- Potential exposure pathways; and
- Whether source-pathway-receptor connections are complete based on current and future suite conditions.

Table 5. Conceptual Site Model

Potential Sources	**Potential Receptor**	**Potential Exposure Pathway**	**Complete connection**	**Risk**	**Justification/Control Measures**
Contaminated soil from importation of uncontrolled fill across the site.	Site occupants, workers, general public	Dermal contact, inhalation/ingestion of particulates	Limited (current)	Low	Direct contact with potentially contaminated soils is limited.
			No (future)	Low	If present, impacted soils are to be disposed of off-site.
	Buckargingah Creek	Migration of impacted groundwater and	No (current)	Moderate	Buckargingah Creek is located approximately 300m north of the site. It is possible that surface contamination from

		surface water run-off.			the site could reach this waterway in the case of significant surface runoff.
			Limited (future)	Low	If present, contaminated soils and groundwater are to be remediated.
	Underlying aquifer	Leaching and migration of contaminants through groundwater infiltration.	Limited (current)	Low	Due to existing unsealed surfaces, unknown bedrock characteristics and leachability of CoPCs, migration of CoPCs is possible at this location, however the clay underlying the site is likely to limit transport.
			Limited (future)	Low	If present, contaminated soil and/or groundwater is to be remediated.

10. Data Gaps

The following data gaps have been identified at the site:

- The origin and thickness of fill material; and
- Historical UPSS details

11. Investigation Methodologies

NEO Consulting conducted the onsite investigation and soil sampling program on the 15th June 2021. Sample locations for the site are presented in **Appendix A, Figure 3**. The investigation methodology is presented below.

11.1 Sampling Analysis Plan

To assess the potential for soil contamination at the site, NEO Consulting completed the following scope of works:

- NEO Consulting undertook soil sampling at depths of 0.3-1m below ground level, in order to find any historical onsite contamination in proximity of the surface.
- 6 soil samples were collected (BH1-BH6). Refer to **Figure 3** for sample depths and locations;
- Visual inspection of the ground surface for asbestos;
- Submission of all soil samples to a NATA accredited laboratory for analysis of CoPC comprising TRH, BTEX, PAH, OCP, OPP, heavy metals and asbestos;
- Installation of a Groundwater Monitoring well in the location of BH4;
- Collection of a sample from groundwater beneath the site; and
- Submission of water sample to a NATA accredited laboratory for analysis of COPC comprising TRH, BTEX, PAH and heavy metals.

11.2 Soil Sampling Methodology

All boreholes were completed using a drill rig to a maximum depth of 1m below ground level (bgl). Soil samples were collected directly from the hand auger, placed in laboratory prepared 250ml soil jars, labelled and placed on ice in an esky for transport under chain of custody (COC) to a NATA Accredited Laboratory for the analysis of the COPC.

11.3 Water Sampling Methodology

The groundwater was sampled using Hydra-Sleeve method due to convenience and low probability of potential contamination based on the onsite drilling and field assessment. The water samples for hydrocarbon analysis were

drained into new 125mL glass amber bottles rinsed with hydrochloric acid and filled so that no air bubbles or headspace was present. The bottles were sealed with a teflon lined cap. Water samples were also poured into two 44mL glass vials so that no air space was present. Water samples for metal analysis were filtered on-site with a 45 micron filter directly into the sample container with nitric acid rinse.

12. Assessment Criteria

The following assessment criteria were adopted for the investigation.

12.1 NEPM Health Investigation Level D (HIL-D)

HILs are scientific, risk-based guidance levels to be used as in the primary stage of assessing soil contamination to evaluate the potential risks to human health from chronic exposure to contaminants. HILs are applicable to a broad range of metals and organic substances, and generally apply to depths up to 3m below the surface for residential use.

Tier 1 HILs are divided into the following sub-criteria:

- HIL A – residential with garden/accessible soils
- HIL B – residential with minimal opportunities for soil access
- HIL C – public open space/recreational areas
- HIL D – commercial/industrial premises

12.2 NEPM Health Screening Level D (HSL-D)

HSLs have been developed for selected petroleum compounds and fractions and are used for the assessment of potential risks to human health from chronic inhalation and direct contact pathways of petroleum vapour emanating off petroleum contaminated soils (Vapour Risk). HSLs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to depths below surface to >4m.

Tier 1 HSLs are divided into the following sub-criteria:

- HSL A – residential with garden/accessible soils
- HSL B – residential with minimal opportunities for soil access
- HSL C – public open space/recreational areas
- HSL D – commercial/industrial premises

12.3 NEPM Ecological Investigation Level (EIL) – Commercial and Industrial

Ecological investigation levels (EILs) have been developed to assess the risk for the presence of metals and organic substance in a terrestrial ecosystem. EILs are guided by land-use scenarios, specific soil physicochemical properties and generally apply to the top 2m of soil. EILs can be applied for arsenic (As), copper (Cu), chromium III (Cr(III)), dichlorodiphenyltrichloroethane (DDT), naphthalene, nickel (Ni), lead (Pb) and zinc (Zn). The NEPM Soil Quality Guidelines (SQG) for EILs are calculated using the Added Contamination Limit (ACL) to determine the amount of contamination that had to be added to the soil to cause toxicity, including ambient background concentration (ABC).

12.4 NEPM Ecological Screening Level (ESL) – Commercial and Industrial

ESLs have been developed for selected petroleum hydrocarbons (BTEX, benzo(a)pyrene, TRH F1 and F2) in soil, based on fresh contamination. These parameters are applicable to coarse and fine-grained soil and apply from the surface of the soil to 2m below ground level, which corresponds with the root and habitat zone for many species.

12.5 NEPM Management Limits – Commercial and Industrial

Management Limits for petroleum have been developed for prevention of explosive vapour accumulation, prevention of the formation of observable Light Non-Aqueous Phase Liquids (LNAPL) and protection against effects on buried infrastructure. Commercial and Industrial limits have been adopted based on the proposed land use.

13. Investigation Results

13.1 Soil Analytical Results

The soil analytical results are summarised below. Soil analytical results are presented in the laboratory reports in **Appendix C.**

Total Recoverable Hydrocarbons

Analytical results for TRH were below HSL-D, ESL and Management Limits.

Table 6. TRH results

Chemical	HSL-D Direct contact mg/kg	HSL-D Vapour Intrusion (0-<1m) (clay) mg/kg	ESL Commercial/ Industrial (fine-grained soil) mg/kg	Management Limits Commercial/ Industrial (fine-grained soil) mg/kg	Sample					
					BH1 (1m)	BH2 (0.8m)	BH3 (0.4m)	BH4 (1m)	BH5 (0.8m)	BH6 (0.4m)
$C_6 - C_{10}$	26,000	310 (C6-C10 less BTEX (F1))	215	800	<25	<25	<25	<25	<25	<25
$> C_{10} - C_{16}$	20,000	NL (>C10-C16 less Naphthalene (F2))	170	1,000	<25	<25	<25	<25	<25	<25
$>C_{16} - C_{34}$	27,000	-	2,500	5,000	<90	<90	<90	<90	<90	<90
$>C_{34} - C_{40}$	38,000	-	6,600	10,000	<120	<120	<120	<120	<120	<120

Benzene Toluene Ethylbenzene Xylenes

Analytical results for BTEX were below HSL-D and ESL.

Table 7. BTEX results

Chemical	HSL-D Direct contact mg/kg	HSL-D Vapour Intrusion (0-<1m) (clay) mg/kg	ESL Commercial/ Industrial (fine-grained soil) mg/kg	Sample					
				BH1 (1m)	BH2 (0.8m)	BH3 (0.4m)	BH4 (1m)	BH5 (0.8m)	BH6 (0.4m)
Benzene	430	4	95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	99,000	-	135	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	27,000	-	185	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	81,000	-	95	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

Polycyclic Aromatic Hydrocarbons

Table 8. Analytical results for PAHs were below the HIL-D, ESL and EIL guideline limits. The carcinogenic PAHs (Benzo(a)anthracene; Benzo(a)pyrene; Benzo(b+j)fluoranthene; Benzo(k)fluoranthene; Benzo(g,h,i)perylene; Chrysene; and Dibenz(a,h)anthracene) potency is calculated relative to Benzo(a)pyrene to produce a Toxicity Equivalent Factor (TEF). The Toxicity Equivalent Quotient (TEQ) is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its Benzo(a)pyrene (B(a)P) TEF. Total PAH includes Naphthalene, 2-methylnaphthalene, 1-methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene and the carcinogenic PAHs.

Chemical	HIL-D mg/kg	ESL Commercial/Industrial (fine-grained soil) mg/kg	EIL Commercial/Industrial mg/kg	Sample					
				BH1 (1m)	BH2 (0.8m)	BH3 (0.4m)	BH4 (1m)	BH5 (0.8m)	BH6 (0.4m)
Naphthalene	-	-	370	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	-	0.7	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAH	40	-	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH	4,000	-	-	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8

Heavy Metals

Analytical results for heavy metals were below the HIL-D and EIL guideline limits.

Table 9. Heavy Metal results

Chemical	HIL-D mg/kg	EIL Commercial/Industrial mg/kg	Sample					
			BH1 (1m)	BH2 (0.8m)	BH3 (0.4m)	BH4 (1m)	BH5 (0.8m)	BH6 (0.4m)
Arsenic	3,000	160	**1**	<1	**8**	<1	**2**	**1**
Cadmium	900	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	3,600	-	**8.0**	**7.7**	**12**	**7.2**	**11**	**9.2**
Copper	240,000	-	**5.1**	**6.0**	**6.5**	**5.5**	**21**	**9.1**
Lead	1,500	-	**6**	**13**	**220**	**7**	**74**	**19**
Mercury	730	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Nickel	6,000	-	**5.5**	**4.3**	**1.9**	**3.6**	**2.5**	**8.8**
Zinc	400,000	-	**4.0**	**5.2**	**34**	**2.6**	**37**	**11**

OCP/OPP

Table 10. No OCP/OPPs were detected in any of the samples taken.

Chemical	HIL-D mg/kg	EIL Commercial/Industrial mg/kg	Sample					
			BH1 (1m)	BH2 (0.8m)	BH3 (0.4m)	BH4 (1m)	BH5 (0.8m)	BH6 (0.4m)
DDT	-	640	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
^ Sum of DDD + DDE + DDT	3,600	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Asbestos

Table 11. Asbestos values for each sample undertaken. No asbestos was detected.

Chemical	Sample	BH1 (1m)	BH2 (0.8m)	BH3 (0.4m)	BH4 (1m)	BH5 (0.8m)	BH6 (0.4m)
Asbestos Detected		No	No	No	No	No	No

13.2 Groundwater Analytical Results

The water sample taken at this site showed no indication of contamination. The results of laboratory testing are shown in **Table 12**, and can be seen in **Appendix C**.

Table 12. Summary of water analytical results. Bold numbers are above the laboratory limits of reporting.

Sample ID			MW1
Analyte	Health Assessment Criteria	Ecological Assessment Criteria	Depth of well = 6.8mbgl Depth to water = 6.5mbgl.
TRH (µg/L)	HSL for vapour intrusion	**NEPM GILs (fresh water)**	
F1 (TRH C6-C10) less BTEX	-	-	<50
F2 (TRH C10-C16) less Napthalene	-	-	<60
F3 (TRH C16-C34)	-	-	<500
F4 (TRH C34-C40)	-	-	<500
BTEXN (µg/L)	**HSL for Vapour Intrusion**	**NEPM GILs (fresh water)**	
Benzene	30	950	<0.5
Toluene	-	-	<0.5
Ethylbenzene	-	-	<0.5
Meta- & para-Xylene	-	200	<1
Ortho-Xylenes	-	350	<0.5
Total Arsenic	-	24 as AS(III) 13 as AS(V)	<1
Total Cadmium	-	0.2	<0.1
Total Chromium	-	1	<1
Total Copper	-	1.4	<1
Total Nickel	-	11	**1**
Total Lead	-	3.4	<1
Total Zinc	-	8	**6**
Total Mercury	-	0.06	<0.0001
Total PAH	-	-	<1

14. Conclusion

NEO Consulting finds that the site is suitable for the proposed land use, providing the recommendations within section 15 of this report are undertaken.

15. Recommendations

Based on the information collected and available during this investigation, the following recommendations have been made:

- Any soils requiring excavation, on-site reuse and/or removal must be classified in accordance with "Waste Classification Guidelines Part 1: Classifying Waste" NSW EPA (2014);
- Any areas of the site suspected of containing ACM including soil and/or fill material are to be handled in accordance with relevant Australian Standards, SafeWork NSW codes of practice and any other applicable requirements; and
- A site specific 'Unexpected Finds Protocol' is to be made available for reference for all occupants and/or site workers in the event unanticipated contamination is discovered, including asbestos.

References

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- WaterNSW, https://realtimedata.waterNSW.com.au/, accessed on 28th June 2021.

Limitations

The findings of this report are based on the scope of work outlined in Section 2. Neo Consultants performed the services in a manner consistent with the normal level of care and expertise exercised by members of the environmental consulting profession. No warranties, express or implied are made.

The results of this assessment are based upon the information documented and presented in this report. All conclusions and recommendations regarding the site are the professional opinions of Neo Consultants personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, Neo Consultants assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of Neo Consulting, or developments resulting from situations outside the scope of this project.

The results of this assessment are based on the site conditions identified at the time of the site inspection and validation sampling. Neo Consulting will not be liable to revise the report to account for any changes in site characteristics, regulatory requirements, assessment criteria or the availability of additional information, subsequent to the issue date of this report.

Neo Consulting is not engaged in environmental consulting and reporting for the purpose of advertising sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes.

NEO Consulting Pty Ltd

Prepared by:

Oskar Lamperts
Environmental Scientist

Sarah Houlahan
Project Manager

APPENDIX A

Figures and photographic log

Figure 1: The site is located approximately 201 km south-west of the Canberra CBD.

Site location

Source: SIX Maps 2021

Figure 1	Locality Map
Project	Railway Parade Corner Sladen Street, East Henty, NSW, 2658

Figure 2: The total area of this site is 2290 m^2.

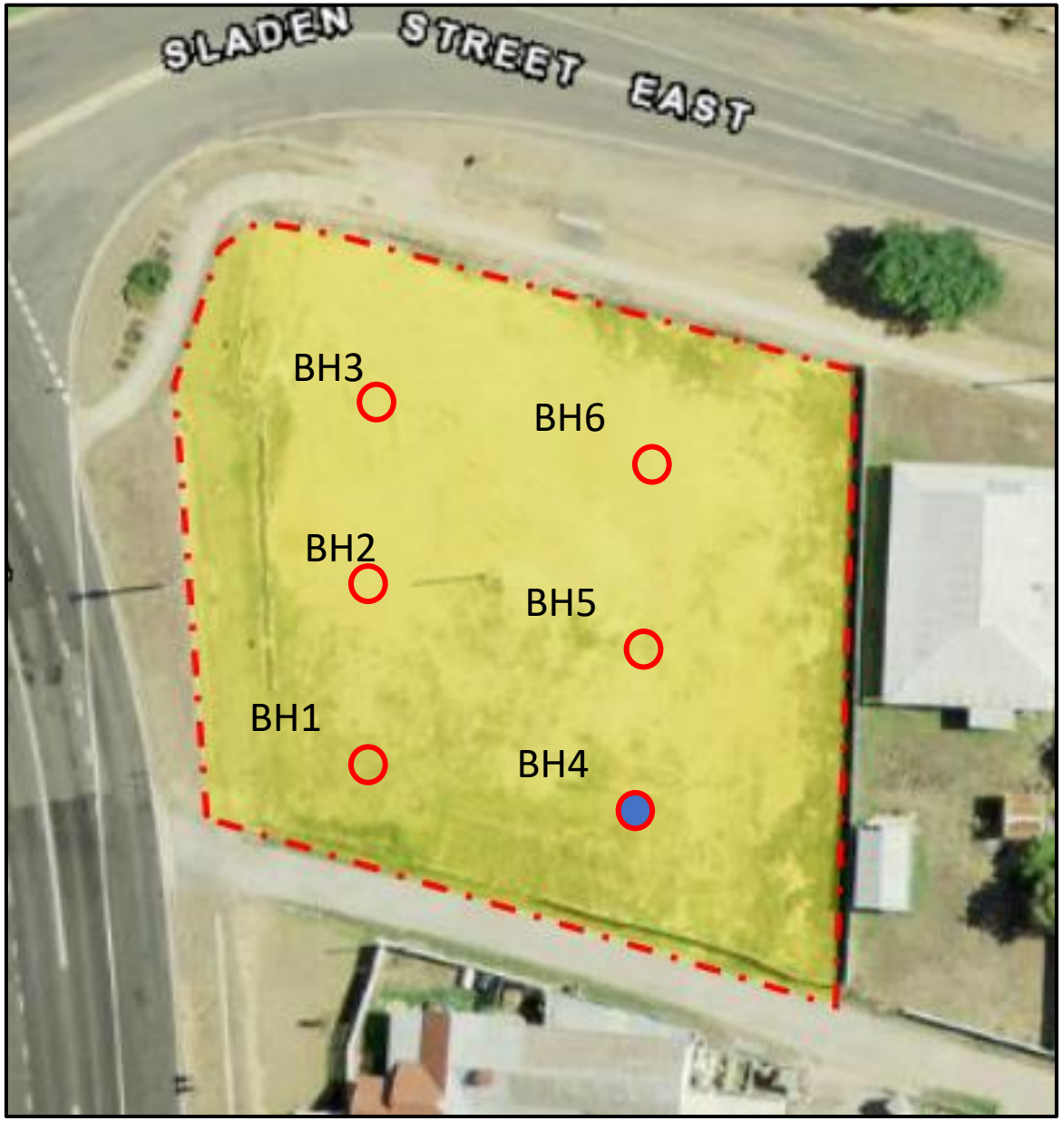
Source: SIX Maps 2021

Figure 2	Site Area
Project	Railway Parade Corner Sladen Street, East Henty, NSW, 2658

N

Figure 3: Location of the six (6) boreholes on site. One (1) sample was taken from each borehole, see table. BH4 continued below the sample depth and was established as a groundwater monitoring well.

Sample I.D	Sample/Borehole Depth (m)
BH1	1
BH2	0.8
BH3	0.4
BH4	1
BH5	0.8
BH6	0.4



Monitoring well

Borehole

Source: SIX Maps 2021

Figure 3	Borehole Locations & Sample Details
Project	Railway Parade Corner Sladen Street, East Henty, NSW, 2658

On-site photographs taken on 15/06/21

Image 1: The site was a vacant paddock. The grass across the site was healthy and showed no signs of contamination during inspection.

Image 2: The site was located on a corner block. No foreign materials or remains of structures were identified during inspection.

Image 3: The western site border had a chain-link fence along its perimeter.

Image 4: The eastern boundary of the site shares a border with a number of residential and rural lots.

Image 5: The site is underlain by an organic-rich silt, which continues to 1m bgl. This is followed by an orange clay.

Image 6: With depth, the clay composition of the site's soil increases, as does the moisture level.

APPENDIX B

Architectural Documents, Safework Search Results, Title History

Greater Hume Council

All correspondence
PO Box 99 Holbrook NSW 2644

P 02 6036 0100 or 1300 653 538
E mail@greaterhume.nsw.gov.au
greaterhume.nsw.gov.au

ABN 44 970 341 154

RJ Sinclair Pty Ltd
PO Box 503
ROUND CORNER NSW 2158

C/- designs@rjsinclair.com.au

Dear Sir/Madam

10.2021.72.1 – New Service Station – Lot 1, 2 & 3 DP12560 Railway Parade Henty

This letter is provided to advise that Council has completed a preliminary assessment of the proposed development application and now seeks further information to assist with the assessment of the application.

In addition, the public notification period for the application has also been completed and as a result, a number of submissions have been received to the proposal. These submissions have raised a variety of issues.

To enable further assessment of the application the following additional information is required:

1. The SEPP 33 analysis submitted with this application does not align with proposed storage of petroleum products. Council considers that screening threshold in applying SEPP 33 has been exceeded for this development application. Therefore, Council requires submission of a preliminary hazard analysis in accordance Hazardous Industry Planning Advisory Paper No 6 – Hazard Analysis.
2. Submit an acoustic report prepared by a suitable qualified person to establish that noise impacts from 24 hour trading will not have an adverse effect on nearby residents. If necessary the report should nominate methods of attenuation to be implemented in order to achieve acceptable noise levels.
3. Provide details of the proposed finishes for the canopies and the sales building.
4. Provide additional details of light sources to ensure that light spill does not occur to adjacent properties, particularly to the east, north and south.
5. Council's records show that the site has previously been used for industrial purposes including the retailing of petroleum. Council has on its records a satisfactory report on the underground petroleum tank removal. However, no additional investigations on land contamination has been performed. Accordingly Council requires the submission of preliminary investigation of the land to ascertain its suitability for the proposed service station. In accordance with Council's Contaminated Land Policy the consultant undertaking the preliminary investigation must have achieved the following minimum standard of competency:
   - Site Contamination Practitioners Australia (SCPA); and
   - Environment Institute of Australia and New Zealand's (EIANZ) Contaminated Land Assessment Specialist Certified Environmental Practitioner (CLA Specialist CEnvP).
6. It advised that RMS will require additional information on the proposed signage including potential layouts.

The application will be held pending receipt of the above information which may be emailed to: **mail@greaterhume.nsw.gov.au to be formally recorded.**

Should you require further information please contact Council's Director Environment & Planning, Colin Kane on 6036 0100 or mobile 0428 667 071.

Yours faithfully

Colin Kane
Director Environment & Planning
Registration No. BDC0878
GREATER HUME COUNCIL

20 May 2021

Our Ref: CJK:SG:P10123263:P50791

PROPOSED SERVICE STATION

LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST

HENTY NSW 2658

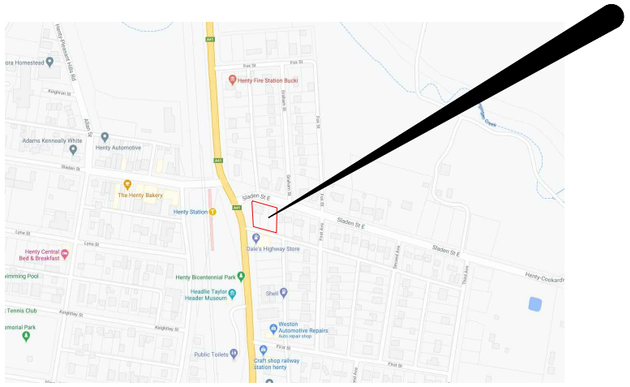
FOR

NORTH MANILA PETROLEUM Pty Ltd

DRAWING SCHEDULE

SURVEY PREPARED BY : T.J. HINCHCLIFFE & ASSOCIATES Pty Ltd.	19270		SITE SURVEY
CONSTRUCTION MANAGEMENT	CMP01		CONSTRUCTION MANAGEMENT PLAN
	CMP02		CONSTRUCTION MANAGEMENT NOTES AND DETAILS
	CMP03		SEDIMENT MAINTENANCE SCHEDULE
ARCHITECTURAL	A	00	COVER SHEET & DRAWINGS SCHEDULE
	A	01	EXISTING SITE PLAN
	A	02	PROPOSED SITE PLAN
	A	03	SITE DIMENSIONED PLAN
	A	04	SITE LEVELS & CONTOURS PLAN
	A	20	SALES BUILDING FLOOR PLAN
	A	21	SALES BUILDING DIMENSIONED PLAN
	A	22	SALES BUILDING ROOF PLAN
	A	23	SALES BUILDING ELEVATIONS / SECTIONS
	A	100	LIGHT VEHCILE CANOPY FLOOR, CEILING AND ROOF PLAN
	A	101	LIGHT VEHCILE CANOPY ELEVATIONS AND SECTION
	A	200	HEAVY VEHCILE CANOPY FLOOR, CEILING AND ROOF PLAN
	A	301	HEAVY VEHCILE CANOPY ELEVATIONS AND SECTION
SIGNAGE	SS	01	SITE SIGANGE PLAN
	SS	02	SIGNAGE DETAILS
TRADE WASTE	TW	01	TRADE WASTE PLAN
	TW	02	TRADE WASTE DETAILS
STORMWATER	SD	01	STORMWATER DRAINAGE PLAN
	SD	02	STORMWATER CATCHMENT PLAN
	SD	03	STORMWATER DRAINAGE DETAILS
TURNING STUDY	TS	01	TURNING STUDY - CARS & CARAVANS
	TS	02	TURNING STUDY - DELIVERY TRUCKS
	TS	03	TURNING STUDY - TRUCKS
LANDSCAPING	L	01	LANDSCAPE PLAN
	L	02	LANDSCAPE NOTES AND DETAILS

SITE



LOCATION MAP

STREET MAP IMAGE
COURTESY GoogleMaps®

PHOTO MAP

AERIAL PHOTOGRAPHY IMAGE
COURTESY NearMap®

APPROVAL ISSUE

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

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Multi-Discipline Design + Project Management

Chartered Member :
BUILDING DESIGNERS AUSTRALIA
Accredited Building Designer : 6318
Victoria : RBP DP-AD 15529
Queensland : QBCC 1082914
Tasmania : ABP CC 6710

NOTES :

1. REFER TO T.J. HINCHCLIFFE & ASSOCIATES Pty Ltd DRAWINGS JOB REF. 19270 FOR FULL SURVEY DETAILS.

Lot 1 DP652787

Lot 2 DP12486

Lot 3 DP12486

HIGHWAY

SLADEN STREET EAST

RAILWAY PARADE

BOUNDARY LINE 47.125

BOUNDARY LINE 45.695

BOUNDARY LINE 45.025

BOUNDARY LINE 47.245

Lot 1 DP878288

Lot 1 DP12560

Lot 2 DP12560

Lot 3 DP12560

Lot 4 DP12560

Lot 79 DP12560

LANE

FOOTPATH

TRAFFIC ISLAND

GARDEN

CONCRETE

BITUMEN

GRAVEL

EDGE

KERB

TOP

OF

INVERT

LINEMARKING

CENTRELINE

DRAIN

SWP

SW 100 CONC DBY

BENCHMARK RL 238.888

REMOVE EXISTING STREET TREE.

REMOVE PORTION OF EXISTING KERB, FOOTPATH AND VERGE TO MAKE WAY FOR NEW ENTRY DRIVEWAY.

REMOVE THE WHOLE OF THE SITE FENCING.

REMOVE ALL GRASS, WEEDS AND SHRUBS TO MAKE WAY FOR NEW DEVELOPMENT.

REMOVE PORTION OF EXISTING PATH TO MAKE WAY FOR FOOTPATH REALIGNMENT. REFER TO DRAWINGS A - 02 FOR DETAILS.

REMOVE PORTION OF EXISTING CONCRETE DRAIN AND MAKE GOOD TO SUIT NEW DRIVEWAY. REFER TO STORMWATER DRAWINGS FOR DETAILS.

EXISTING SITE POWER CONNECTION TO REMOVED. NEW CONNECTION TO SUIT PROPOSED SITE PLAN. ALL TO FUTURE DETAIL.

REMOVE PORTION OF KERBS AND VERGE TO MAKE WAY FOR NEW EXIT DRIVEWAY.

RELOCATE EXISTING STREET NO STOPPING SIGN. ALL TO FUTURE DETAIL.

REMOVE PORTION OF EXISTING CONCRETE DRAIN AND MAKE GOOD TO SUIT NEW DRIVEWAY. REFER TO STORMWATER DRAWINGS FOR DETAILS.

APPROVAL ISSUE

EXISTING SITE PLAN AND DEMOLITION PLAN

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

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NOT FOR CONSTRUCTION

No.	Amendment	By	Date
PI	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	04.03.2021
P2	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	11.03.2021
DAI	ISSUED FOR DEVELOPMENT APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	31.03.2021

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Web : www.rjsinclair.com.au
Multi-Discipline Design + Project Management

Project
PROPOSED SERVICE STATION
LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
EXISTING SITE PLAN

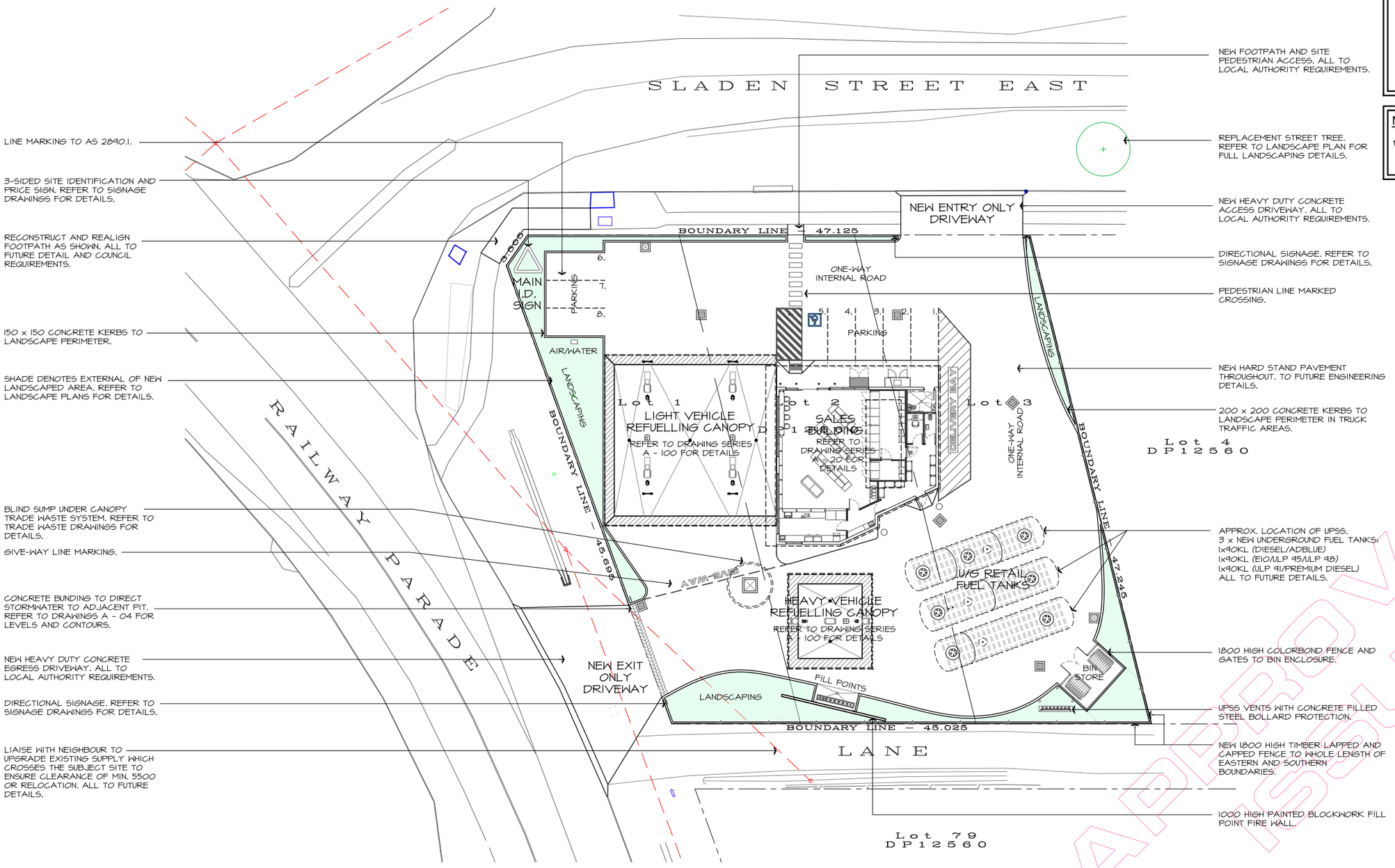
Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:200 @ A1 & 1:400 @ A2	Checked
Project No.: 19 - 045	Drawing No.: A - 01
	Amdt.: DAI

SITE ANALYSIS

TOTAL SITE AREA :	2,178 m²
SALES BUILDING AREA :	(GFA) 185 m²
LIGHT VEHICLE REFUELLING AREA :	256 m²
HEAVY VEHICLE REFUELLING AREA :	72 m²
LANDSCAPES AREA :	235 m²
PARKING :	
LIGHT VEHICLE:	8 SPACES
DELIVERY BAY:	1 SPACES
LV REFUELLING BAY:	8 SPACES
HV REFUELLING BAY:	2 SPACES
TOTAL SPACES:	19 SPACES

NOTES :

1. REFER TO T.J. HINCHCLIFFE & ASSOCIATES Pty Ltd DRAWINGS JOB REF. 19270 FOR FULL SURVEY DETAILS.



PROPOSED SITE PLAN

SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

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P3	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	08.03.2021
P4	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	11.03.2021
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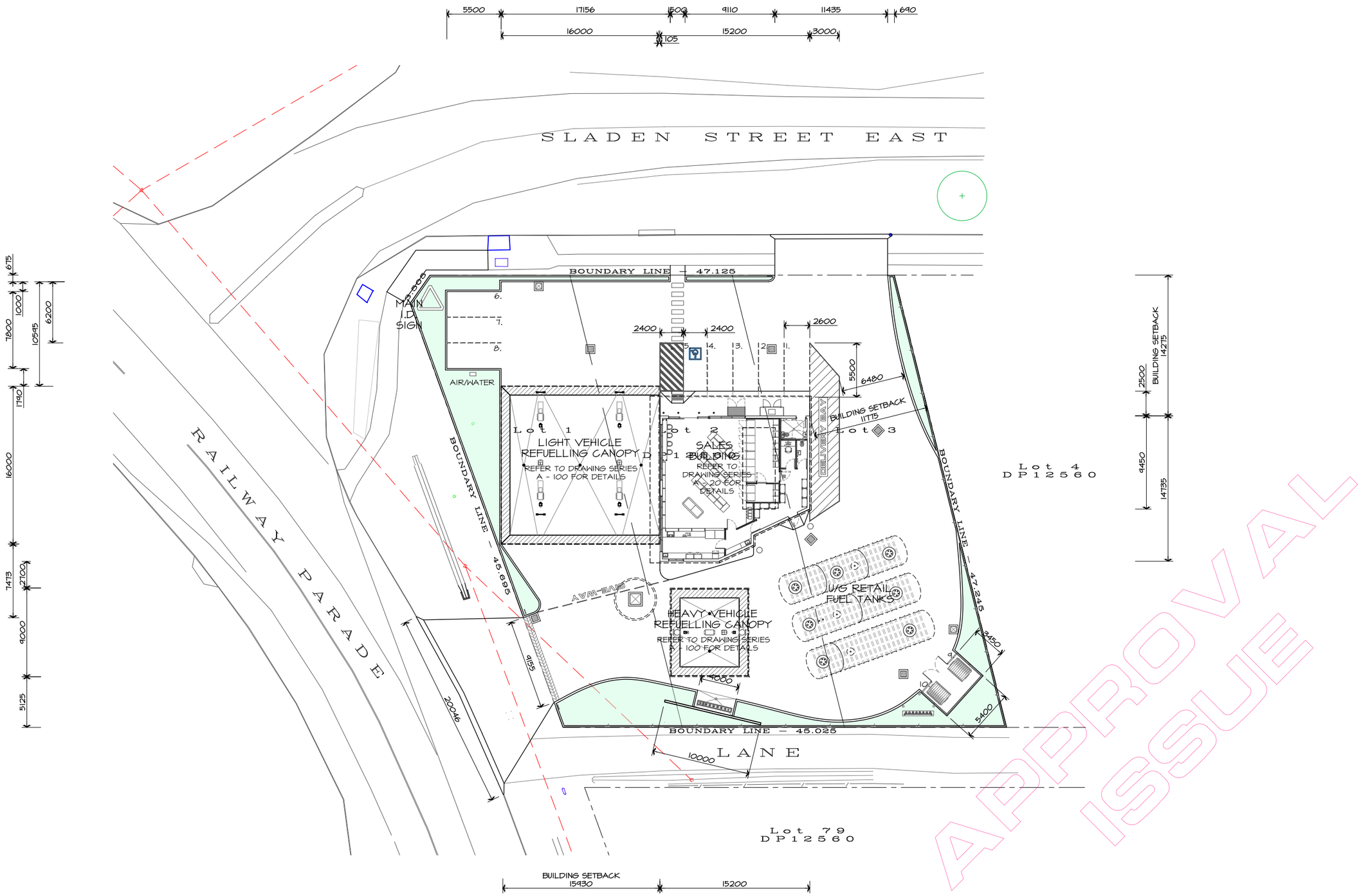
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
PROPOSED SITE PLAN

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:200 @ A1 & 1:400 @ A2	Checked
Project No.: 19 - 045	Drawing No.: A - 02
	Amdt.: DA1



DIMENSIONED SITE PLAN

SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

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No.	Amendment	By	Date
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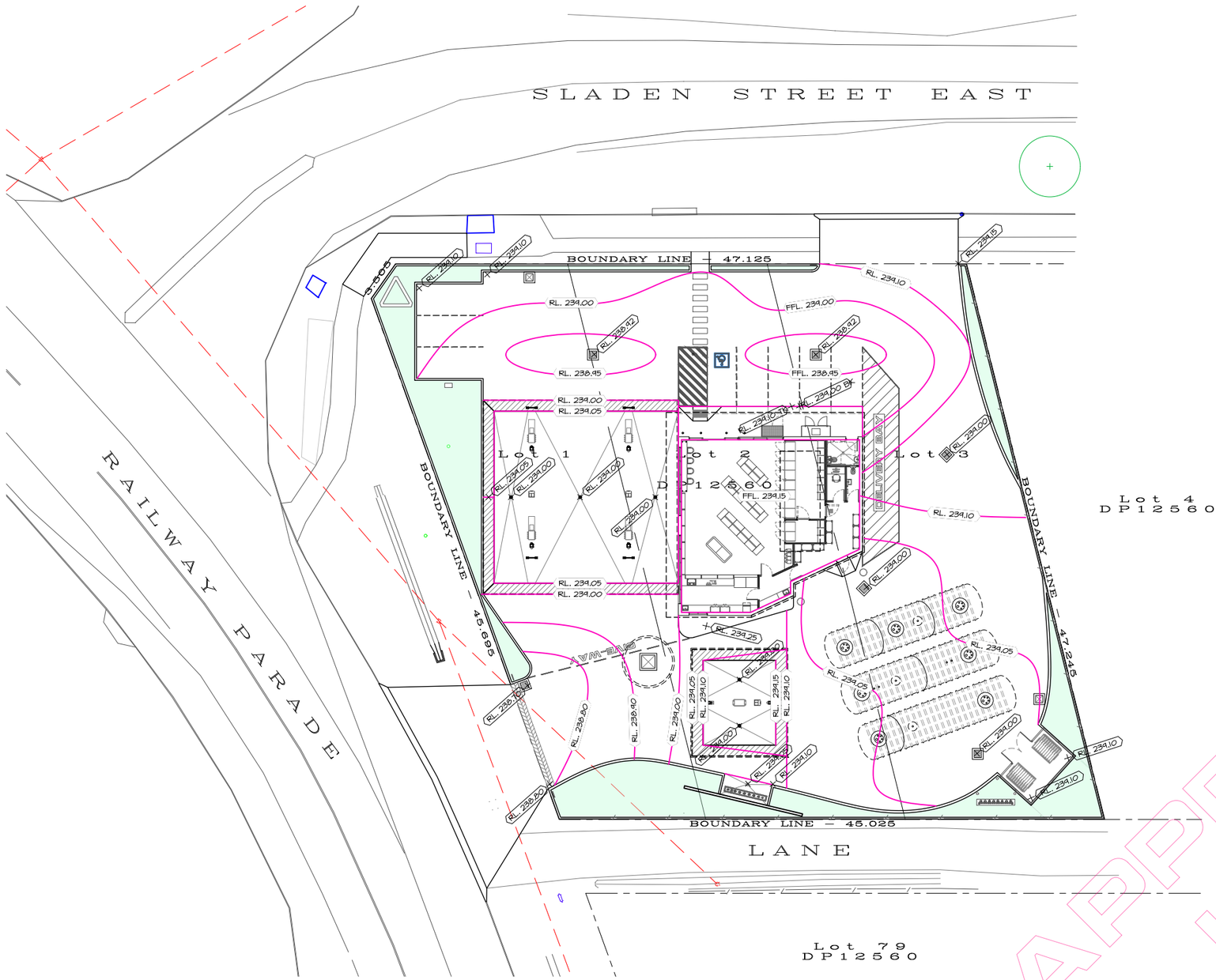
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
DIMENSIONED SITE PLAN

Approved	Designed VP
Date March 2021	Drawn VP
Scale 1:200 @ A1 & 1:400 @ A2	Checked
Project No. 19 - 045	Drawing No. A - 03
	Amdt. DAI

NOTES :

1. FOR EXISTING LEVELS AND CONTOURS REFER TO SURVEY BY T.J. HINCHCLIFFE & ASSOCIATES Pty Ltd JOB REF. 19270 FOR FULL SURVEY DETAILS.



SITE LEVELS & CONTOURS PLAN

SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

ISSUED FOR DEVELOPMENT APPROVAL
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FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
SITE LEVELS & CONTOURS PLAN

Approved	Designed VP
Date March 2021	Drawn VP
Scale 1:200 @ A1 & 1:400 @ A2	Checked
Project No. 19 - 045	Drawing No. A - 04
	Amdt. DA1

ALL ACCESSIBLE PARKING AND SHARED ZONE ALL IN ACCORDANCE WITH AS2890.6

OUTLINE OF ACP FASCIA FRAME OVER. REFER TO ELEVATIONS FOR DETAILS.

KERB RAMPS TO BE IN ACCORDANCE WITH AS 1428.1.

FRAMELESS GLASS AUTOMATIC SLIDING DOOR.

PAINTED STEEL FRAMED CONCRETE FILLED BOLLARDS.

ALUMINUM FRAME BLIND MULLION SHOPFRONT GLAZING. REFER TO ELEVATIONS FOR EXTENT.

PAINTED FC SHEETING OVER STEEL FRAMED EXTERNAL WALLS. COLOURS TO SUIT FUTURE TENANT DETAILS. REFER TO ELEVATIONS FOR EXTENT.

OUTLINE OF ACP FASCIA FRAME OVER. REFER TO ELEVATIONS FOR DETAILS.

OUTLINE OF LIGHT VEHICLE CANOPY OVER.

ALL INTERNAL LAYOUTS/JOINERY/EQUIPMENT INDICATIVE ONLY AND TO BE FINALISED TO FUTURE DETAILS.

ALUMINUM FRAME BLIND MULLION SHOPFRONT WINDOW.

RAISED CONCRETE PLINTH .

OUTLINE OF ACP FASCIA FRAME OVER. REFER TO ELEVATIONS FOR DETAILS.

ALL LINE PARKING LINE MARKING TO BE IN ACCORDANCE WITH AS 2890.1. WITH 100mm HIGH PLINTH TO ALLOW 600mm VEHICLE OVERHANG.

RAISED CONCRETE PLINTH .

OUTLINE OF COLORBOND EAVES GUTTER OVER.

PAINTED PAVEMENT MARKING TO IDENTIFY DELIVERY BAY PARKING AREA.

PAINTED FC SHEETING OVER STEEL FRAMED EXTERNAL WALLS. COLOURS TO SUIT FUTURE TENANT DETAILS. REFER TO ELEVATIONS FOR EXTENT.

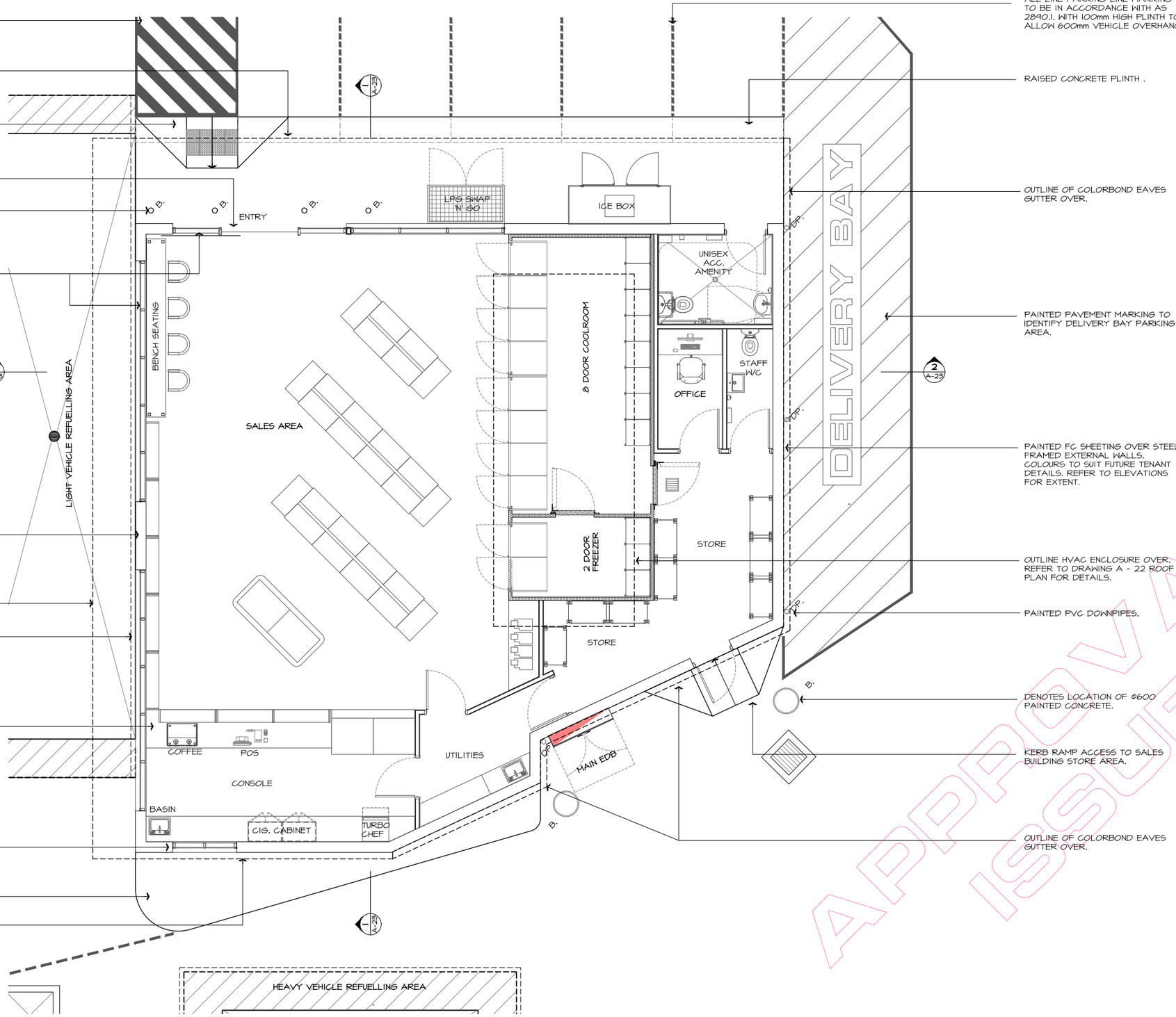
OUTLINE HVAC ENCLOSURE OVER. REFER TO DRAWING A - 22 ROOF PLAN FOR DETAILS.

PAINTED PVC DOWNPIPES.

DENOTES LOCATION OF Φ600 PAINTED CONCRETE.

KERB RAMP ACCESS TO SALES BUILDING STORE AREA.

OUTLINE OF COLORBOND EAVES GUTTER OVER.



SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

PROPOSED SALES BUILDING PLAN

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

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Project
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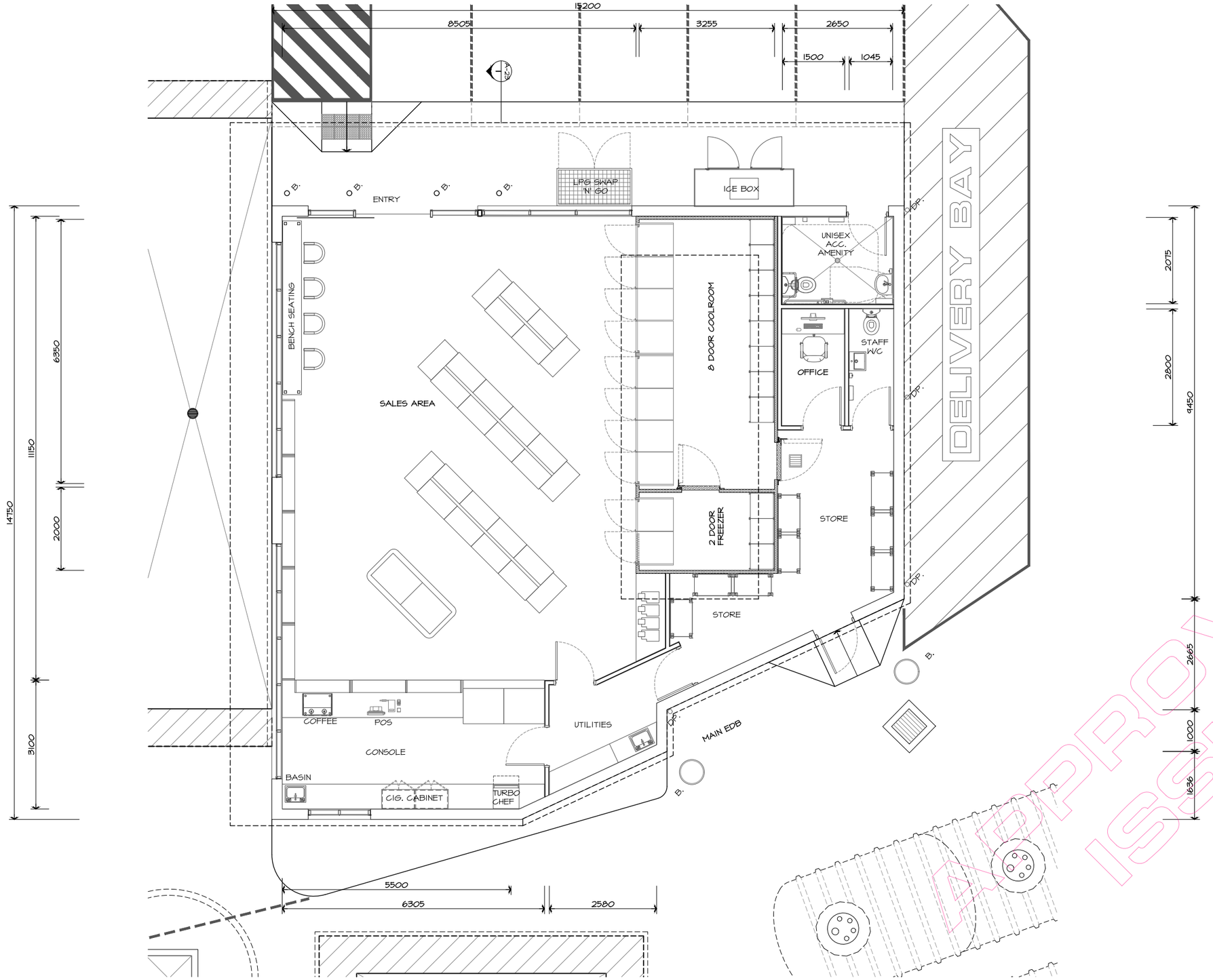
LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
SALES BUILDING FLOOR PLAN

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:50 @ A1 & 1:100 @ A2	Checked
Project No.: 19 - 045	Drawing No.: A - 20
	Amdt.: DAI



SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

SALES BUILDING DIMENSIONED PLAN

ISSUED FOR DEVELOPMENT APPROVAL
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Project
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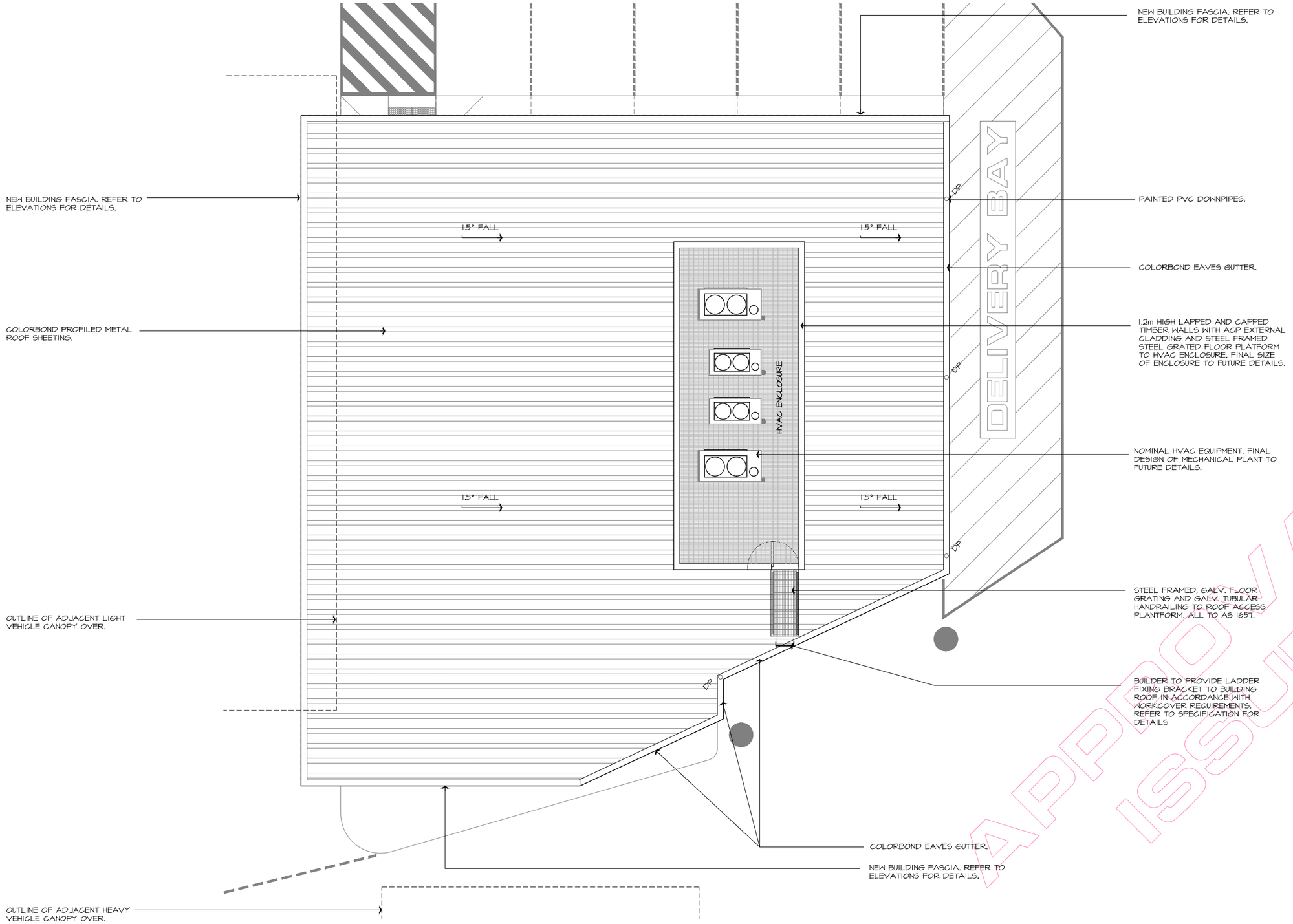
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
SALES BUILDING DIMENSIONED PLAN

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:50 @ A1 & 1:100 @ A2	Checked
Project No.: 19 - 045	Drawing No.: A - 21
	Amdt.: DAI



SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

SALES BUILDING ROOF PLAN

APPROVAL ISSUE

ISSUED FOR DEVELOPMENT APPROVAL
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Chartered Member:
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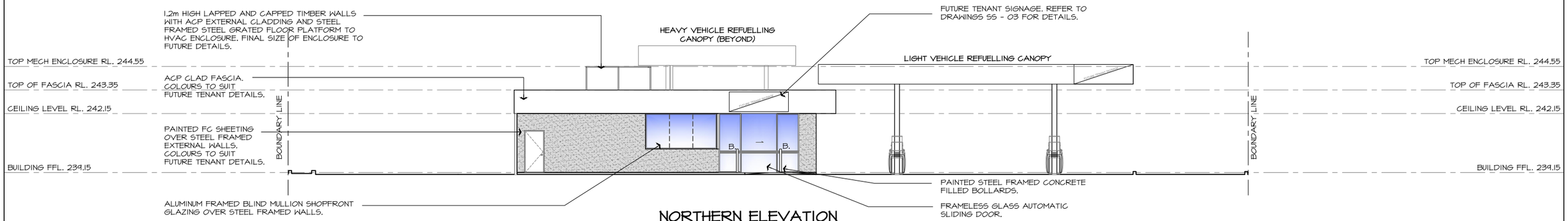
Multi-Discipline Design + Project Management

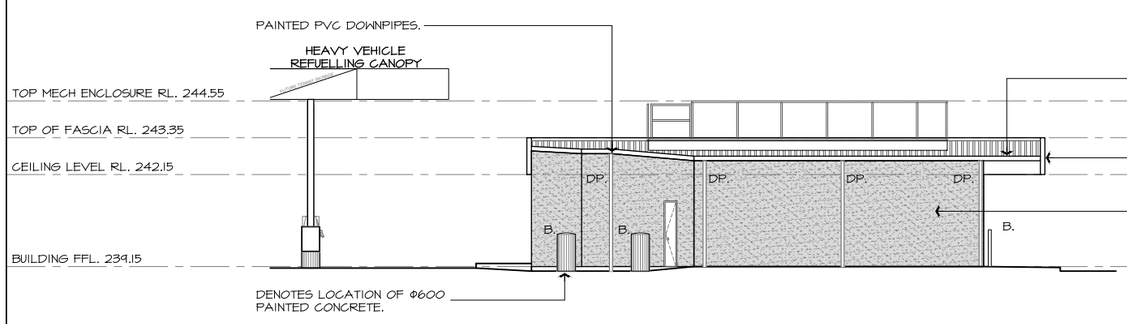
Project
PROPOSED SERVICE STATION
LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
SALES BUILDING ROOF PLAN

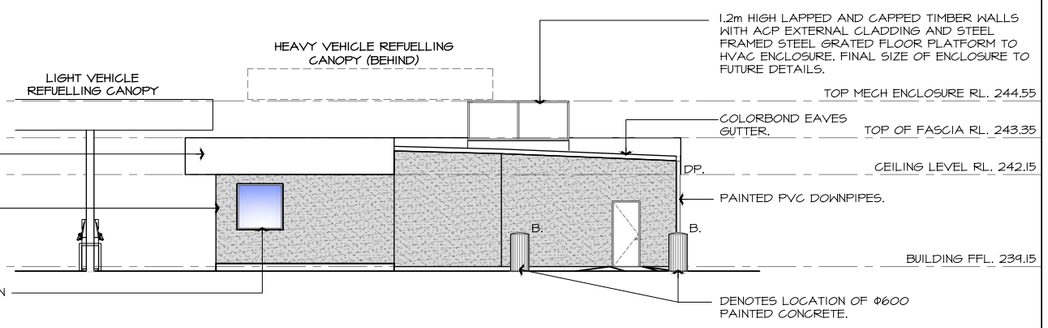
Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:50 @ A1 & 1:100 @ A2	Checked
Project No.: 19 - 045	Drawing No.: A - 22
	Amdt.: DAI



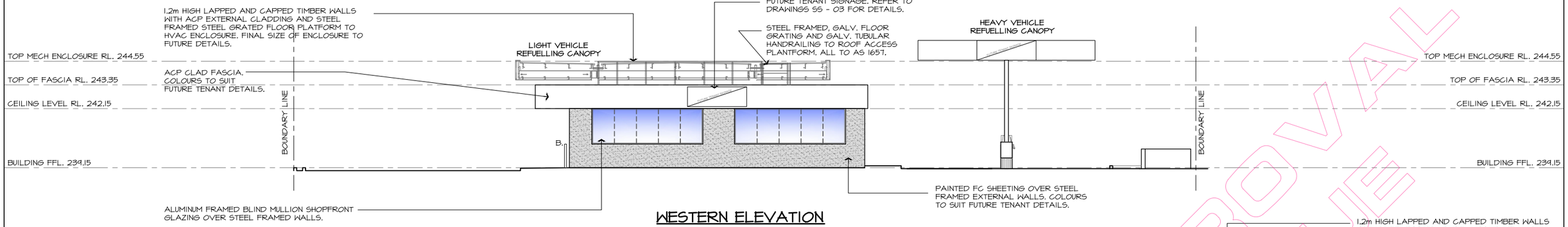
NORTHERN ELEVATION



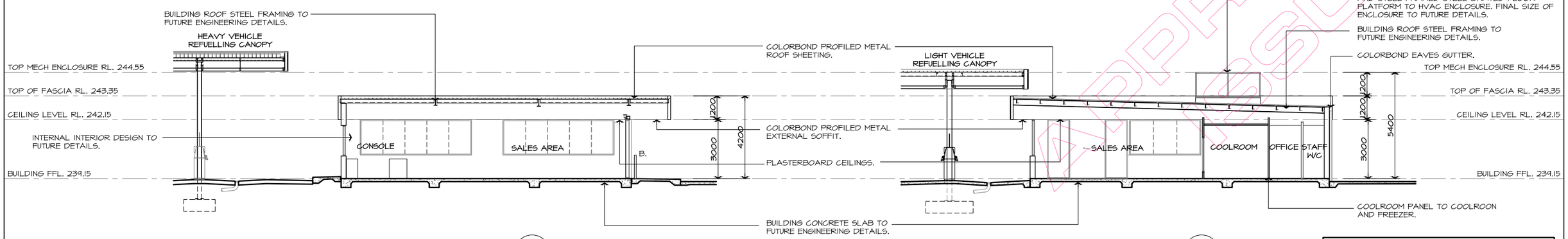
EASTERN ELEVATION



SOUTHERN ELEVATION



WESTERN ELEVATION



SECTION 1 — A-20

SECTION 2 — A-20

SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

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PI	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	11.03.2021
DAI	ISSUED FOR DEVELOPMENT APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	31.03.2021

Chartered Member:
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Drawing Title
SALES BUILDING ELEVATIONS / SECTIONS

Approved	Designed: VP
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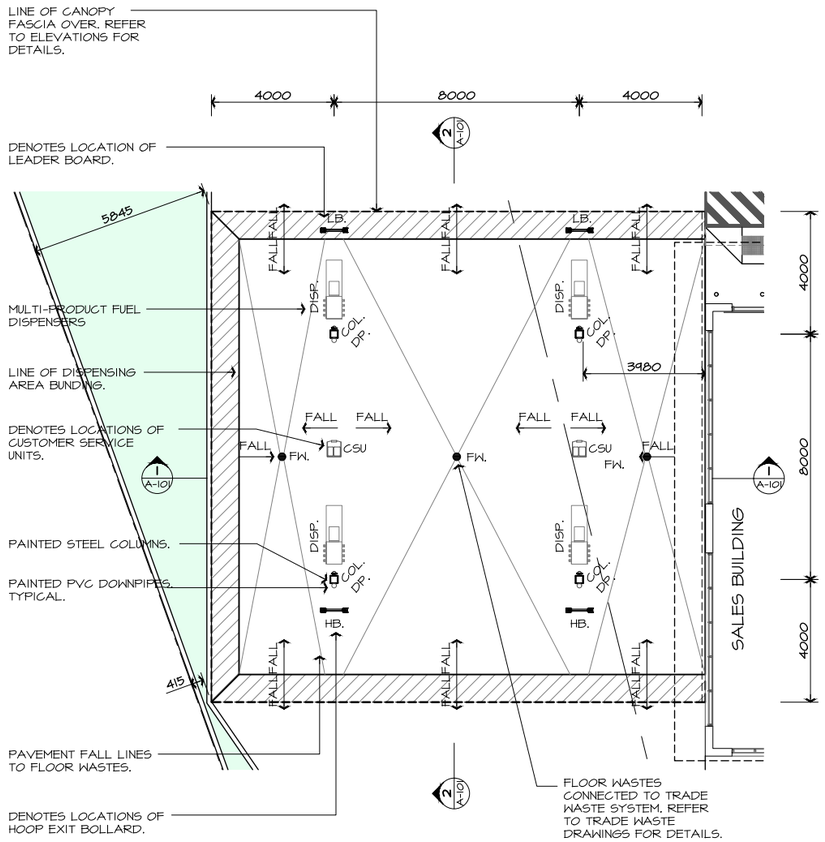
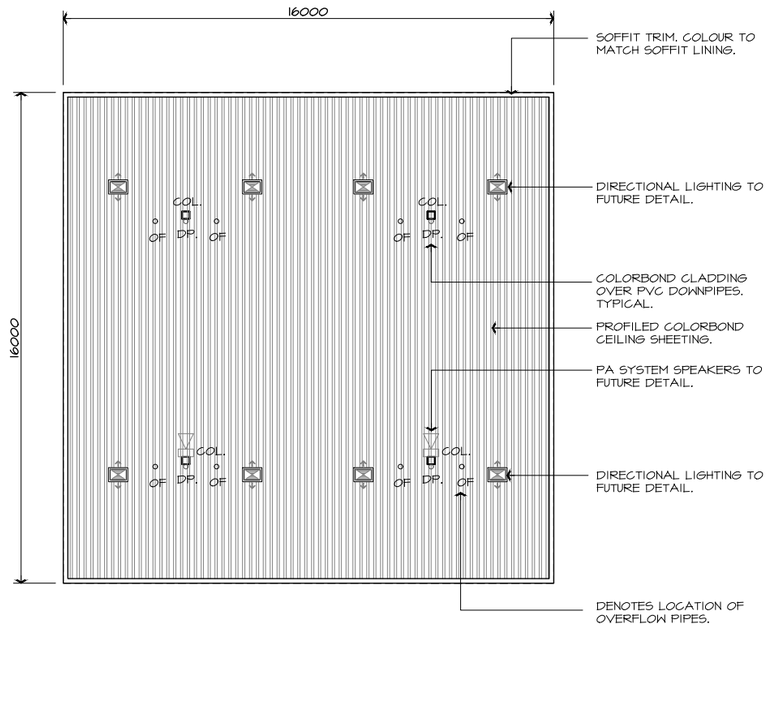
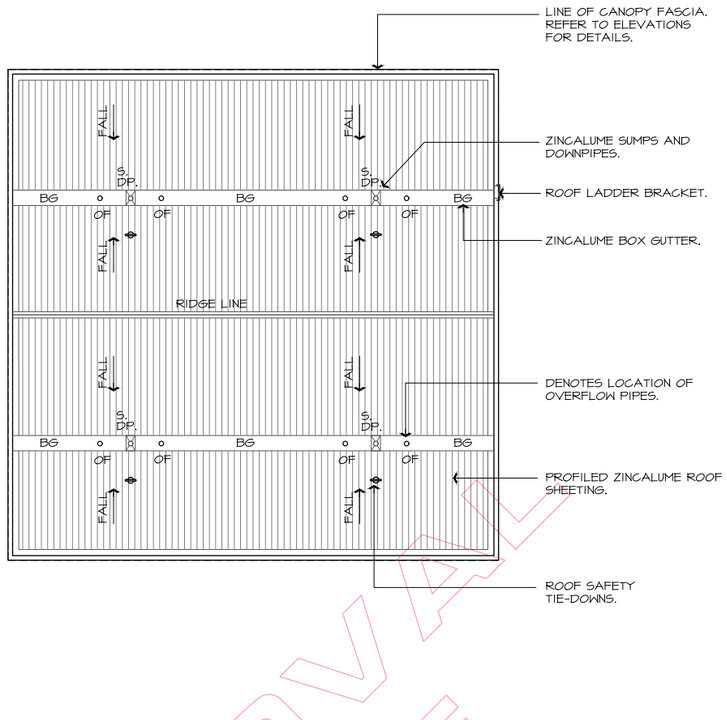
Project No.: 19 - 045	Drawing No.: A - 23
	Amdt.: DAI



CANOPY FLOOR PLAN



CANOPY REFLECTED CEILING PLAN



CANOPY ROOF PLAN

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

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FOR
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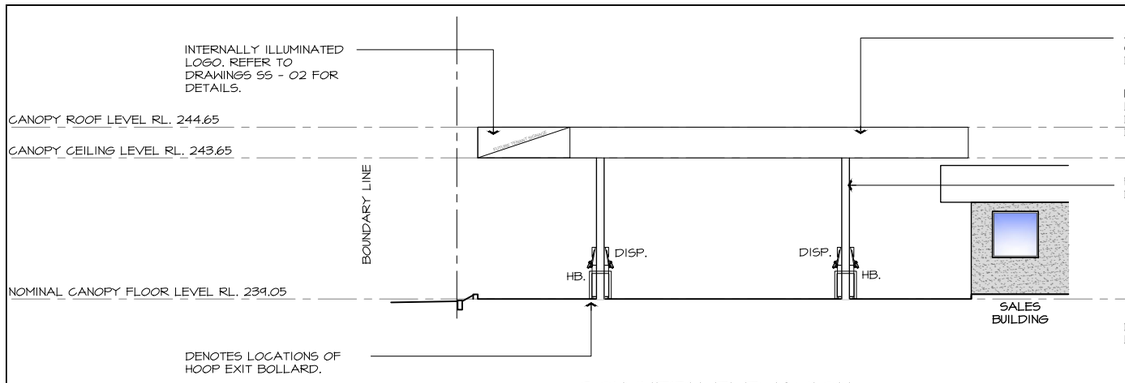
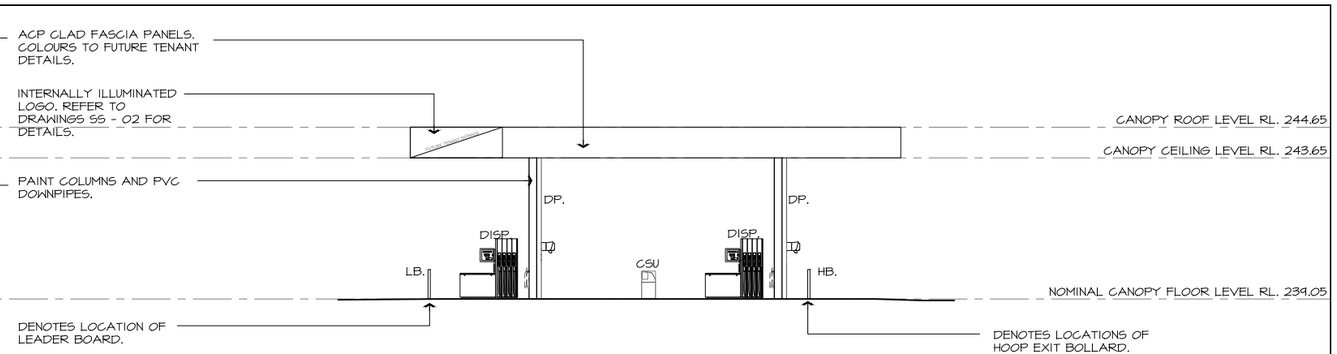
Drawing Title
LIGHT VEHICLE REFUELLING CANOPY FLOOR, CEILING AND ROOF PLAN

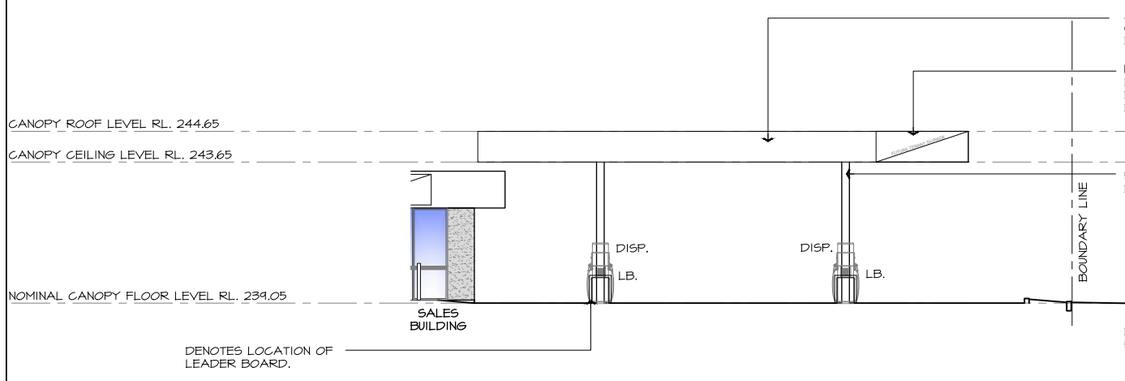
Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:100 @ A1 & 1:200 @ A3	Checked
Project No.: 19 - 045	Drawing No.: A - 100
	Amdt.: DAI



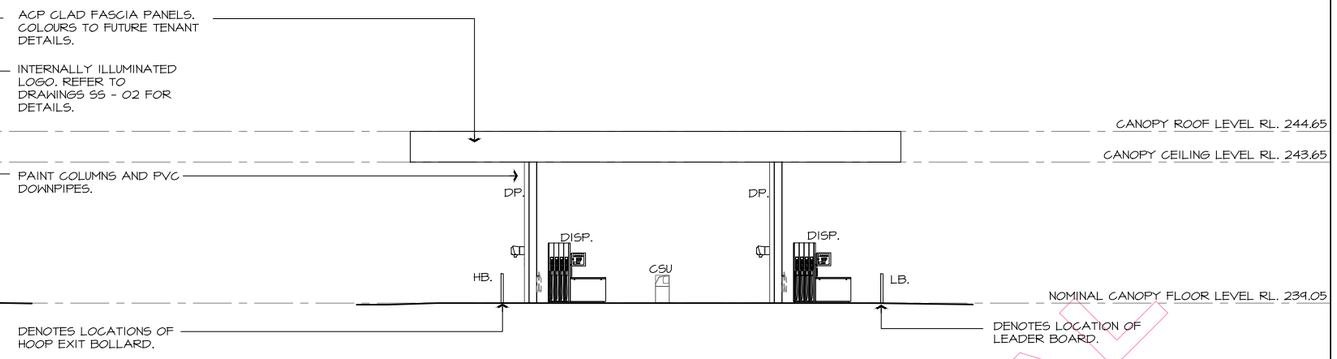
SOUTHERN ELEVATION



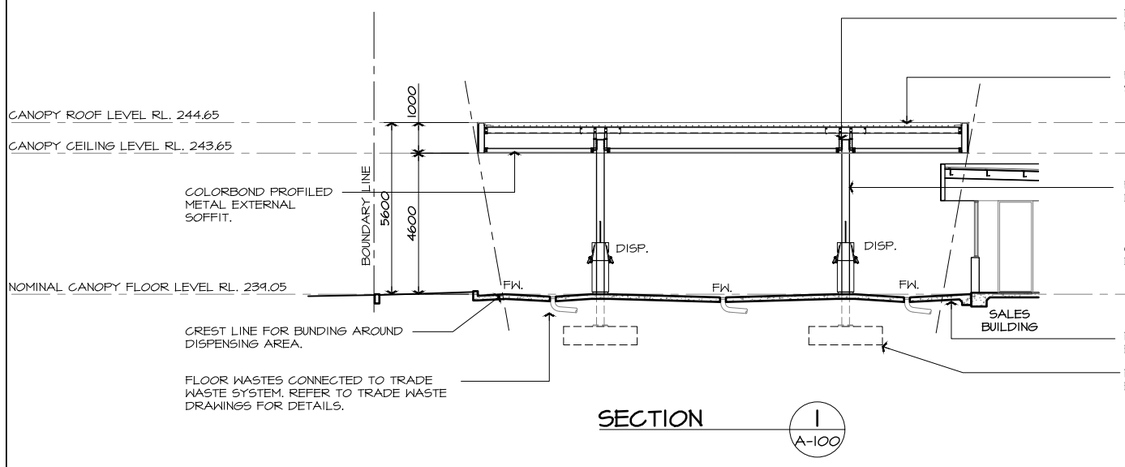
WESTERN ELEVATION



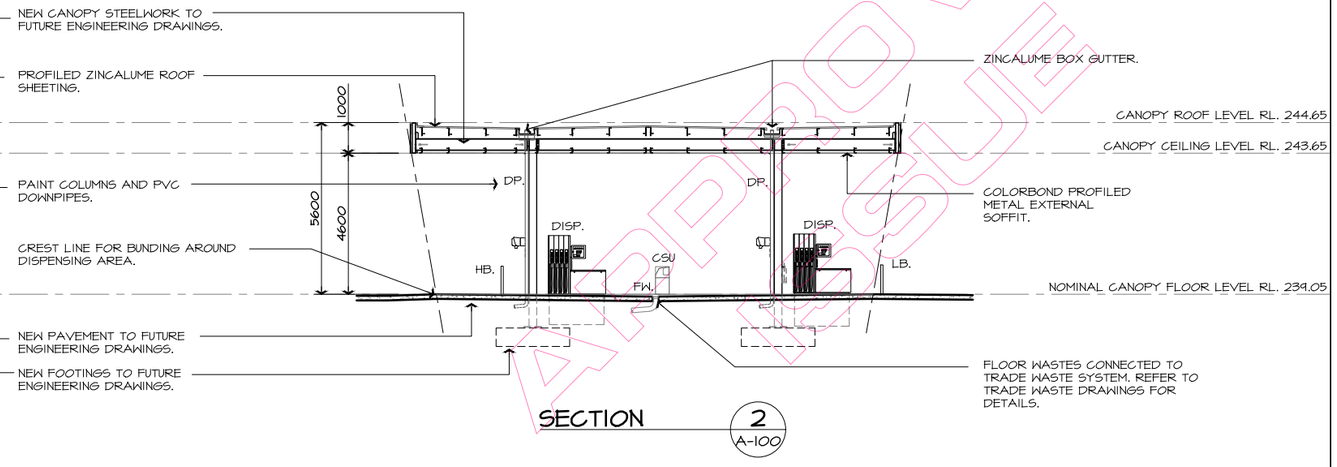
NORTHERN ELEVATION



EASTERN ELEVATION



SECTION 1 / A-100



SECTION 2 / A-100

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

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HENTY NSW 2658
FOR
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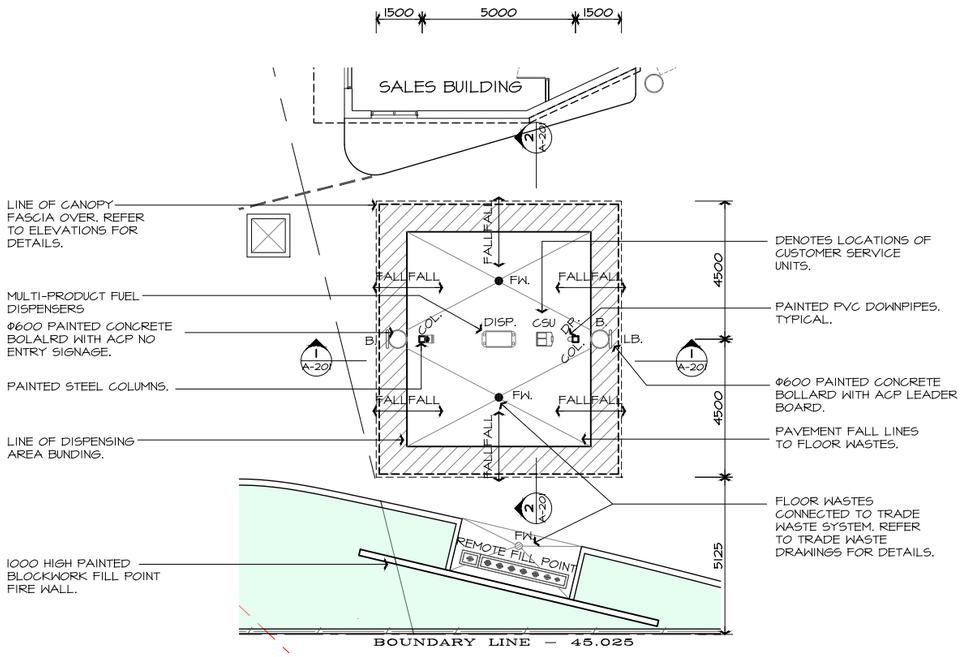
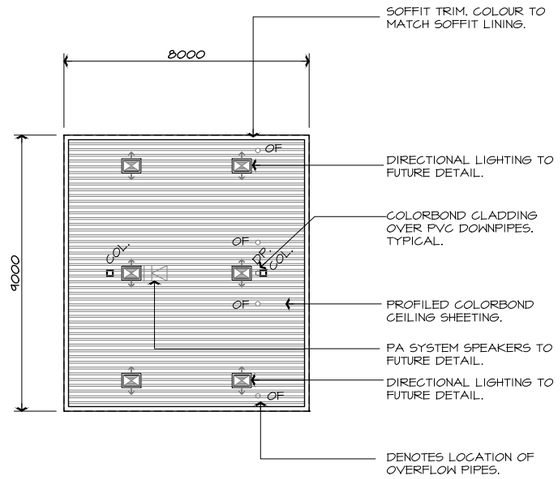
Drawing Title
LIGHT VEHICLE REFUELLING CANOPY ELEVATIONS & SECTIONS

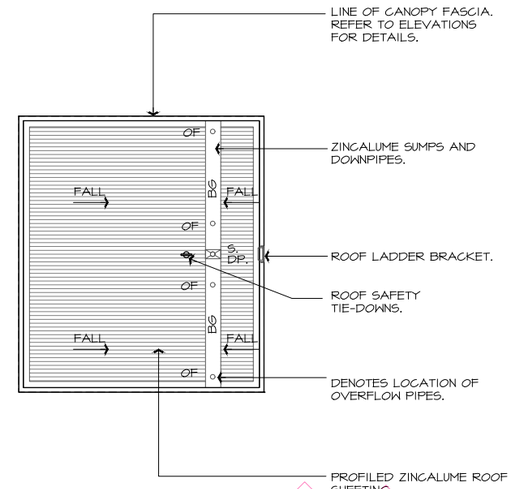
Approved	Designed VP
Date March 2021	Drawn VP
Scale 1:100 @ A1 & 1:200 @ A3	Checked
Project No. 19 - 045	Drawing No. A - 101
	Amdt. DAI



CANOPY FLOOR PLAN



CANOPY REFLECTED CEILING PLAN



CANOPY ROOF PLAN

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

ISSUED FOR DEVELOPMENT APPROVAL
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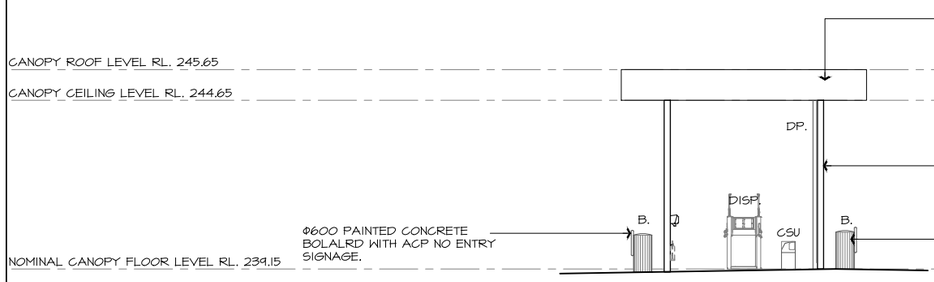
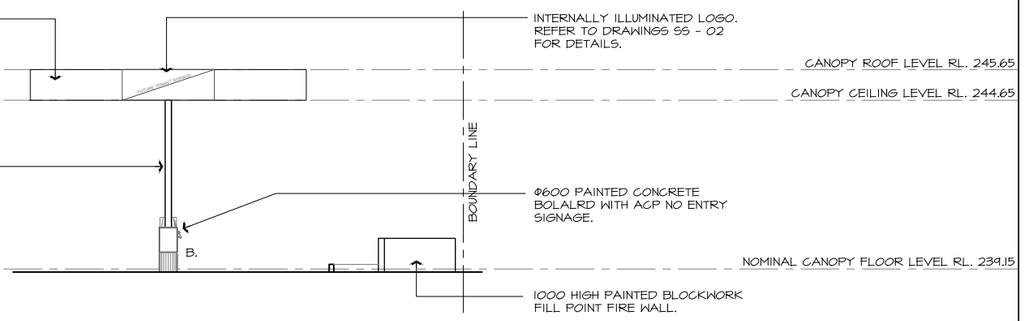
Project
PROPOSED SERVICE STATION
LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
HEAVY VEHICLE REFUELLING CANOPY FLOOR, CEILING AND ROOF PLAN

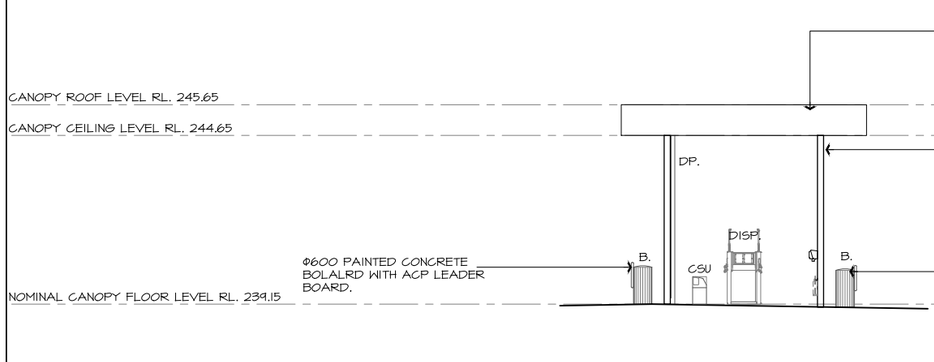
Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:100 @ A1 & 1:200 @ A3	Checked
Project No.: 19 - 045 / Drawing No.: A - 200	Amdt.: DA1



SOUTHERN ELEVATION



WESTERN ELEVATION



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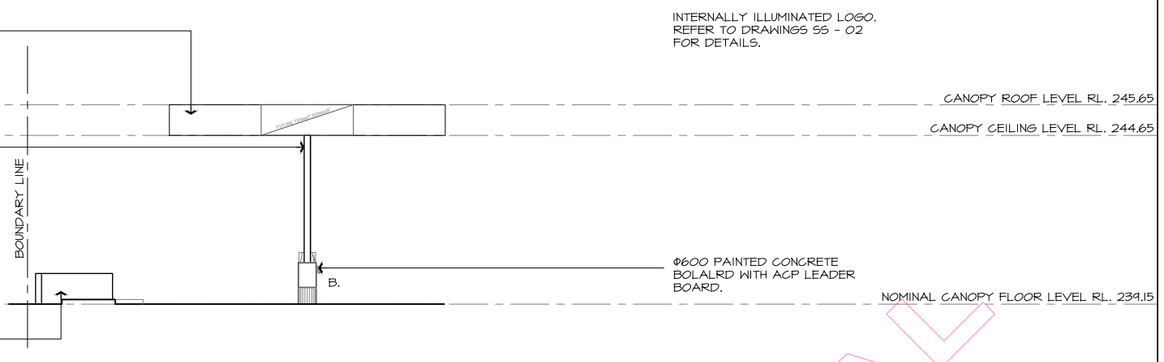
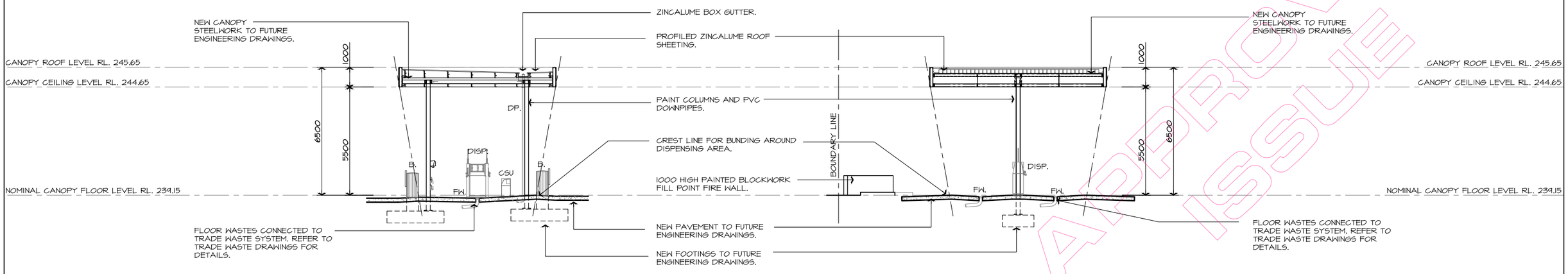


EASTERN ELEVATION



SECTION 1
A-200

SECTION 2
A-200

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

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PROPOSED SERVICE STATION
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HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
HEAVY VEHICLE REFEULLING CANOPY ELEVATIONS & SECTIONS

Approved	Designed VP
Date March 2021	Drawn VP
Scale 1:100 @ A1 & 1:200 @ A3	Checked
Project No. 19 - 045	Drawing No. A - 201
	Amdt. DAI

NOTES : AERIAL POWER LINES

1. AERIAL POWER LINES ARE LOCATED WITHIN THE AREA OF WORK. CARE IS TO BE TAKEN WHEN WORKING IN THESE AREAS.
2. PROVIDE ADEQUATE WORKING CLEARANCE AT ALL TIMES DURING THE WORK.
3. PROVIDE ALL TIGER TAILS AND OTHER PROTECTION REQUIRED BY THE SUPPLY AUTHORITY FOR THE DURATION OF THE WORK.

GENERAL NOTES :

1. UNLOADING OF MATERIALS BY CRANE MUST BE COMPLETED WHOLLY WITHIN SITE BOUNDARY - REFER TO NOTES ON DWG No. CMP - 02.
2. CONTRACTOR IS TO SEEK PERMISSION FROM ADJOINING SITE OWNERS TO ENTER/WORK NEIGHBORING SITE PRIOR TO ANY WORKS CARRIED OUT. PROVIDE TEMPORARY FENCING ON NEIGHBORING SITE TO SUIT WORKS.
3. CONTRACTOR SHALL SEEK SECTION 138 APPROVAL FOR WORKS WITHIN THE ROAD RESERVE ALL IN ACCORDANCE WITH THE CONSENT AND LOCAL AUTHORITIES REQUIREMENTS.
4. BUILDER TO PROVIDE 2 x 90kg PORTABLE FIRE EXTINGUISHERS ON SITE DURING CONSTRUCTION.
5. ALL PERSONNEL, CONTRACTORS, COUNCIL OR PUBLIC SHALL SIGN IN AND BE INDUCTED BY THE NOMINATED BUILDING CONTRACTOR PRIOR TO ACCESS INTO THE CONSTRUCTION SITE.
7. TO ENSURE PUBLIC SAFETY, THE BUILDER IS TO MAINTAIN EXISTING FOOTPATH ACCESS ALONG SLADEN STREET. IF PUBLIC ACCESS ALONG SLADEN STREET IS COMPROMISED DURING CONTRUCTION THE BUILDING CONTRACTOR SHALL PREPARE SWMS AND JSA TO MANAGE TEMPORARY FOOTPATH CLOSURE AND/OR DETOUR.

PROVIDE 6m WIDE ACCESS GATES. RELOCATE AS NECESSARY TO SUIT CONSTRUCTION SEQUENCE.

PROVIDE TEMPORARY WATER SUPPLY ADJACENT CONSTRUCTION EXIT FOR WASH DOWN PURPOSES.

PROVIDE SITE SIGNAGE TO COUNCIL REQUIREMENTS ADJACENT TO MAIN ENTRY GATES - INCLUDE SITE ACCESS REQUIREMENTS AND VISITOR INSTRUCTIONS. REFER TO NOTES ON DWG No. CMP-02

LOCATION OF BULK MATERIAL STORAGE AREA. RELOCATE ON SITE AS REQUIRED TO SUIT CONSTRUCTION PHASES.

NOMINAL POSITION FOR GENERAL WASTE BIN AND BUILDING MATERIAL STORAGE. RELOCATE ON SITE AS NECESSARY TO SUIT CONSTRUCTION SEQUENCE.

PROVIDE AND MAINTAIN SILTATION FENCE TO LOW SIDE OF SITE FOR THE DURATION OF CONSTRUCTION. RELOCATED ON SITE TO SUIT CONSTRUCTION SEQUENCE. REFER TO DWG No. CMP-02 AND CMP - 03 FOR DETAILS.

NOTE EXISTING AERIAL POWER LINES - ENSURE ADEQUATE CLEARANCE AT ALL TIMES DURING CONSTRUCTION. REFER TO NOTES : AERIAL POWER LINES.

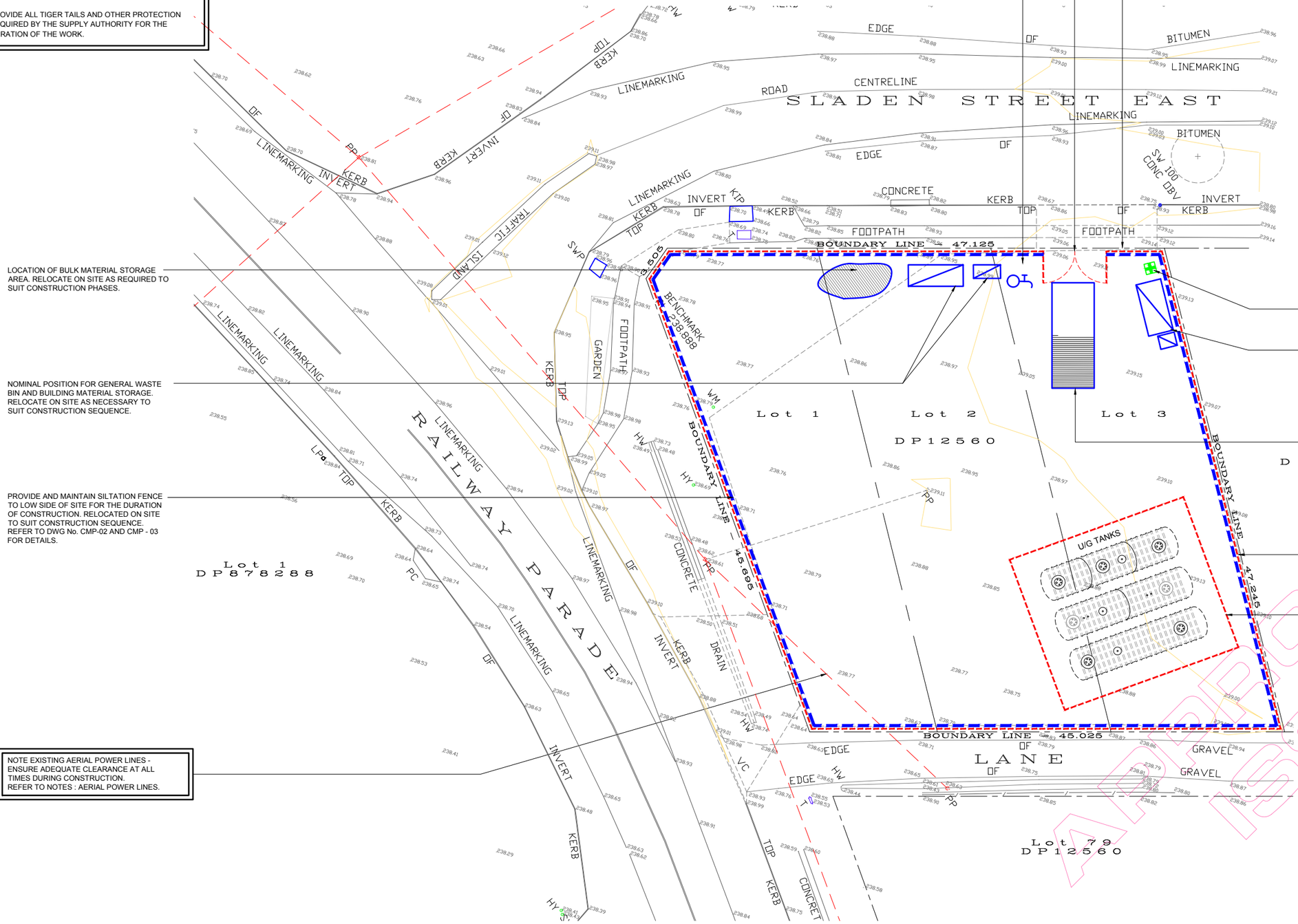
FIRST AID , EMERGENCY PLAN & EVACUATION ASSEMBLY POINT REFER TO NOTES ON DWG No. CMP-02

NOMINAL POSITION FOR TEMPORARY OFFICE/AMENITIES SHED AND TOILET - PROVIDE TEMPORARY WATER, SEWER AND ELECTRICAL CONNECTIONS TO COMPLY WITH COUNCIL REQUIREMENTS. RELOCATE ON SITE AS NECESSARY TO SUIT CONSTRUCTION SEQUENCE.

TEMPORARY STABILISED CONSTRUCTION EXIT AND SHAKER GRID. RELOCATE ON SITE AS REQUIRED TO SUIT CONSTRUCTION SEQUENCE. REFER TO DETAIL ON CMP-02

PROVIDE TEMPORARY SECURITY FENCE TO ENSURE FULL PERIMETER OF SITE IS SECURE.

PROVIDE TEMPORARY BARRIERS AROUND ALL OPEN EXCAVATIONS. REFER TO NOTES ON DRG No. CMP - 02



SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

CONSTRUCTION MANAGEMENT PLAN

DIAL BEFORE YOU DIG www.1100.com.au

The Essential First Step.

THIS DRAWING IS TO BE PRINTED AND DISTRIBUTED IN COLOUR

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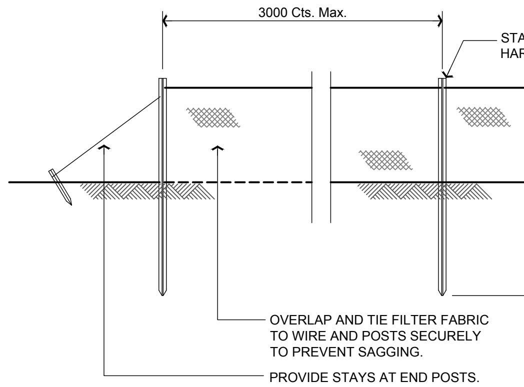
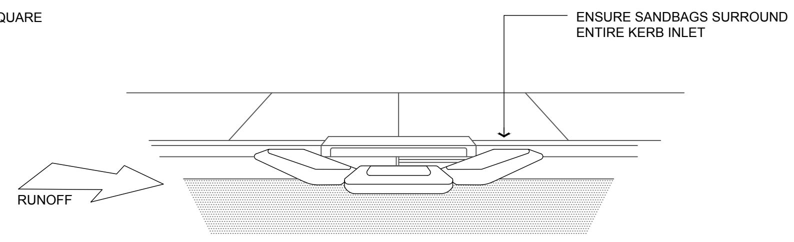
Drawing Title
CONSTRUCTION MANAGEMENT PLAN

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:200 @ A1 & 1:400 @ A3	Checked
Project No.: 19 - 045	Drawing No.: CMP - 01
	Amdt.: DA1

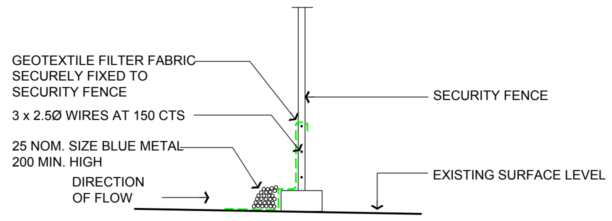
EROSION, SEDIMENT CONTROL + FENCING



TYPICAL SILT FENCE ELEVATION

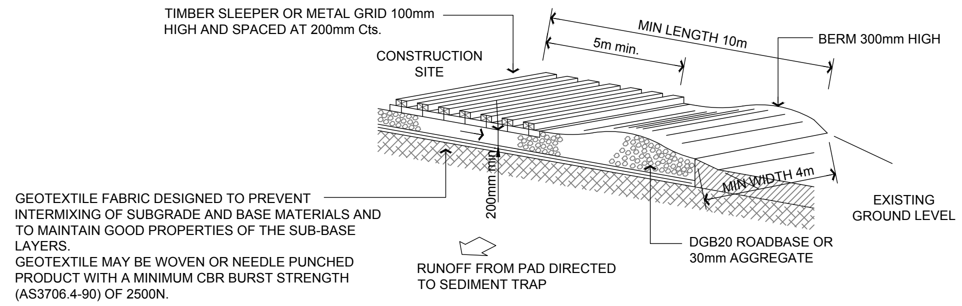


SANDBAG SEDIMENT TRAP AT EXISTING STORMWATER PIT



SILT/SECURITY FENCE DETAIL

NOTE : END OF SILT/SECURITY FENCE TO RETURN UP SLOPE TO PREVENT RUNOFF



CONSTRUCTION NOTES

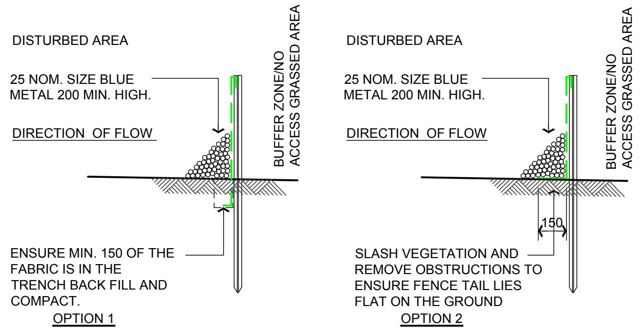
1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200MM THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30MM AGGREGATE.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED

MAINTENANCE NOTES

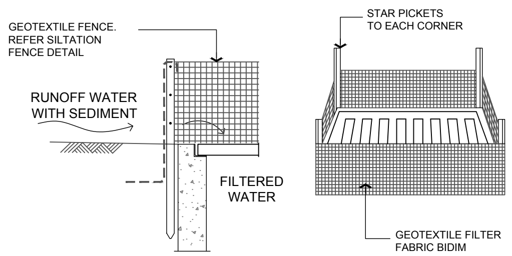
1. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE.
2. WHEN REQUIRED, TOP DRESS WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

TEMPORARY STABILISED CONSTRUCTION EXIT

ENSURE THAT ALL COUNCIL AND PUBLIC UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT



TYPICAL SILT FENCE SECTIONS



GEOTEXTILE FILTER PIT (GFP)

GENERAL INSTRUCTIONS

E1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.

E2. THE SITE SUPERINTENDENT WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION.

E3. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

E4. THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :

a. INSTALL SEDIMENT FENCES AND TEMPORARY STABILISED CONSTRUCTION EXIT.

b. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

E5. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

FENCING

E6. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

E7. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

OTHER MATTERS

E8. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

E9. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.

SITE INSPECTION & MAINTENANCE

E10. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.

SAFETY + SITE MANAGEMENT NOTES

PRINCIPAL CONTRACTOR

1. REFER TO CONTRACT DOCUMENTS FOR PRINCIPAL CONTRACTOR REQUIREMENTS AND RESPONSIBILITIES

SITE ESTABLISHMENT - REFER DWG CMP - 01

1. PRINCIPAL CONTRACTOR TO PREPARE TRAFFIC MANAGEMENT PLAN, EMERGENCY PLANS, SITE INDUCTION MATERIAL
2. IDENTIFIED RISKS:
   - DBYD INFO (EXPOSE EXISTING SERVICES)
   - SITE SIGNAGE (VISITOR ACCESS REQUIREMENTS, SITE INDUCTIONS ETC.)
   - EMERGENCY MANAGEMENT PLAN / FIRST AID / EGRESS
   - TRAFFIC MANAGEMENT
3. CODES OF PRACTICE:
   - CONSTRUCTION WORK - C.O.P (SWA)
   - FIRST AID IN THE WORKPLACE - C.O.P (SWA)
   - TRAFFIC MANAGEMENT IN WORKPLACES DRAFT C.O.P (SWA).

DEMOLITION

1. DEMOLITION TO BE CARRIED OUT BY A LICENSED DEMOLITION CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SCOPE OF WORKS AND CODES OF PRACTICE NOMINATED BELOW.
2. DEMOLITION CONTRACTOR TO PREPARE DETAILED DEMOLITION PLAN, TRAFFIC MANAGEMENT PLAN, WASTE MANAGEMENT PLAN, WHS PLAN, AND SWMS FOR ALL DEMOLITION WORK).
3. ALL EXISTING BUILDINGS TO BE ASSESSED FOR ASBESTOS AND HAVE ASBESTOS REMOVED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH RELEVANT CODES OF PRACTICE.
4. EXISTING STRUCTURES TO BE ASSESSED BY A STRUCTURAL ENGINEER TO DETERMINE THE SAFEST METHOD FOR DEMOLITION.
6. REFER TO SAFE DESIGN REPORT FOR FUTURE DEMOLITION PROCEDURE OF PROPOSED STRUCTURES.
7. CODES OF PRACTICE:
   - DEMOLITION WORK - C.O.P (SWA)
   - CONFINED SPACES - C.O.P (SWA)
   - HOW TO SAFELY REMOVE ASBESTOS - C.O.P (SWA)
   - HOW TO MANAGE AND CONTROL ASBESTOS IN THE WORKPLACE - C.O.P (SWA)
   - DRAFT CRANES - C.O.P (SWA)

EXCAVATION

1. EXCAVATION CONTRACTOR REQUIREMENTS: GEOTECH REPORT, EXCAVATION SAFETY PLAN, DEMOLITION PLAN, WASTE MANAGEMENT, TRAFFIC MANAGEMENT, EMERGENCY PLANS
2. PREPARE A SWMS FOR ALL EXCAVATION (INCLUDING BORED PIERS).
3. PROVIDE TEMPORARY BARRIERS AROUND ALL OPEN EXCAVATION AND CHANGES IN LEVEL GREATER THAN 600mm.
4. CODES OF PRACTICE:
   - EXCAVATION WORK - C.O.P (SWA)
   - CONSTRUCTION WORK - C.O.P (SWA)
   - CONFINED SPACES - C.O.P (SWA)
   - MANAGING THE RISK OF FALLS AT WORKPLACES - C.O.P (SWA)

CONSTRUCTION

1. PRINCIPAL CONTRACTOR TO PREPARE SWMS & WHS MANAGEMENT PLANS. REFER TO TEMPLATES IN THE CONSTRUCTION WORK CODE OF PRACTICE.
2. 'DIAL BEFORE YOU DIG' REPORTS TO BE COORDINATED AND ALL EXISTING SERVICES IDENTIFIED PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO PREPARE SWMS FOR ALL WORK CARRIED OUT UNDER POWER LINES INCLUDING CONCRETE VERGE CROSSINGS, VEHICULAR DELIVERIES, MATERIALS HANDLING WITH CRANES. DETERMINE HEIGHT OF EXISTING POWER LINES AND ESTABLISH NO-GO ZONES IN ACCORDANCE WITH CODES OF PRACTICE. INSTALL WARNING SIGNAGE AND HIGH VISIBILITY BUNTING TO DELINEATE NO-GO ZONE.
4. CODES OF PRACTICE:
   - CONSTRUCTION WORK - C.O.P (SWA)
   - DRAFT CRANES - C.O.P (SWA)
   - WC01394 WORK NEAR OVERHEAD POWERLINES - C.O.P (WORKCOVER NSW)
   - MANAGING ELECTRICAL RISKS IN THE WORKPLACE - C.O.P (SWA)
   - DRAFT - WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND ELECTRIC LINES - C.O.P'

CONFINED SPACES

1. ACCESS TO CONFINED SPACES TO BE RESTRICTED AND MANAGED IN ACCORDANCE WITH THE PRINCIPAL CONTRACTORS' WHS REPORT AND RELEVANT CODES OF PRACTICE.
2. IDENTIFIED RISKS:
   - TANKS INSTALLATION
   - EXCAVATIONS
   - ROOF VOIDS
3. CODES OF PRACTICE:
   - CONFINED SPACES - C.O.P (SWA)

SLIPS, TRIPS & FALLS

1. PRINCIPAL CONTRACTOR TO IDENTIFY RISKS OF SLIPS, TRIPS & FALLS AND INCLUDE METHODS TO ELIMINATE OR REDUCE RISK IN THE WHS MANAGEMENT PLAN.
2. MAINTAIN CONSTRUCTION SITE FREE OF LOOSE DEBRIS.
3. IDENTIFIED RISKS
   - FLOOR FINISHES (SLIP RESISTANCE)
   - STAIRS & RAMPS (SLIP RESISTANCE, HIGHLIGHTING STRIPS, TACTILES ETC.)
   - PEDESTRIAN PATHS OF TRAVEL CLEARLY MARKED
   - ROOF ACCESS PROVISIONS & FALL ARREST SYSTEMS
   - OPEN EXCAVATIONS (PROVIDE WARNING TAPE / TEMPORARY BARRIERS)
   - WORKING AT HEIGHTS (DEMOLITION, BUILDING ROOFS, SAFETY WIRE MESH ETC.)
4. CODES OF PRACTICE
   - MANAGING THE RISK OF FALLS AT WORKPLACES - C.O.P (SWA)
   - PREVENTING FALLS IN HOUSING CONSTRUCTION - C.O.P (SWA)

FALLING OBJECTS

1. PRINCIPAL CONTRACTOR TO IDENTIFY RISKS OF FALLING OBJECTS AND INCLUDE METHODS TO ELIMINATE OR REDUCE RISK IN THE WHS MANAGEMENT PLAN.
2. MOVEMENT OF MATERIAL WITH CRANES TO BE PERFORMED WHOLLY WITHIN THE SITE IN ACCORDANCE WITH SWMS.
3. IDENTIFIED RISKS:
   - WORKING AT HEIGHTS (LOOSE MATERIAL OR SMALL OBJECTS)
   - DEMOLITION OF BUILDING COMPONENTS
   - WORKING IN EXCAVATED TRENCHES (BATTERS, GEOFABRIC, FENCING ETC.)
   - TEMPORARY BRACING FOR UNFINISHED STRUCTURES
   - LIFTING BY CRANES / FORKLIFTS
4. CODES OF PRACTICE:
   - CONSTRUCTION WORK - C.O.P (SWA)
   - DEMOLITION WORK - C.O.P (SWA)
   - EXCAVATION WORK - C.O.P (SWA)
   - DRAFT CRANES - C.O.P (SWA)

OPERATIONAL USE OF BUILDING

1. THE COMPLETED SITE IS TO BE OPERATED IN ACCORDANCE WITH FUEL INDUSTRY SAFETY PROCEDURES.
2. CODES OF PRACTICE
   - FIRST AID IN THE WORKPLACE - C.O.P (SWA)
   - MANAGING THE RISK OF FALLS AT WORKPLACES - C.O.P (SWA)

DUST CONTROL

1. PRINCIPAL CONTRACTOR TO MONITOR WEATHER AND CONSTRUCTION WORKS CONDITIONS AND PROVIDE DUST CONTROLS TO SUIT. INCLUDING BUT LIMIT TO;
   - COVER STOCK PILES
   - LIGHTLY WATER PROBLEM AREAS
   - STOP RELEVANT WORKS

HAZARDOUS SUBSTANCES

1. PRINCIPAL CONTRACTOR TO IDENTIFY HAZARDOUS SUBSTANCES AT ALL STAGES OF CONSTRUCTION AND HANDLE IN ACCORDANCE WITH RELEVANT SPECIFICATIONS.
2. EXISTING BUILDINGS ON THIS SITE MAY CONTAIN ASBESTOS. REFER DEMOLITION NOTES FOR FURTHER DETAIL.
3. IDENTIFIED RISKS:
   - ASBESTOS
   - ABOVEGROUND LPG TANK
   - UNDERGROUND FUEL TANKS
4. CODES OF PRACTICE:
   - HOW TO SAFELY REMOVE ASBESTOS - C.O.P (SWA)
   - HOW TO MANAGE AND CONTROL ASBESTOS IN THE WORKPLACE - C.O.P (SWA)
   - MANAGING RISKS OF HAZARDOUS CHEMICALS IN THE WORKPLACE - C.O.P (SWA)
   - WC04096 SAFE HANDLING OF TIMBER PRESERVATIVES AND TREATED TIMBER - C.O.P (WORKCOVER NSW)

ABBREVIATIONS LEGEND

C.O.P.	:	CODE OF PRACTICE
DBYD	:	DIAL BEFORE YOU DIG (www.1100.com.au)
SWA	:	SAFE WORK AUSTRALIA (www.safeworkaustralia.com.au)
SWMS	:	SAFE WORK METHOD STATEMENT
WHS	:	WORKPLACE HEALTH & SAFETY

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NOT FOR CONSTRUCTION

APPROVAL ISSUE

SCALE BAR 1 : 1 On A1 Size Original
0 10 20 30 40 50 60 70 80 90 100
0 20 40 60 80 100 120 140 160 180 200
SCALE BAR 1 : 2 On A3 Size Reduction

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Multi-Discipline Design + Project Management

Project: PROPOSED SERVICE STATION LOT 1,2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST HENTY NSW 2658	Approved:	Designed: VP
FOR: NORTH MANILA PETROLEUM Pty Ltd	Date: March 2021	Drawn: VP
	Scale: NOT TO SCALE	Checked:
Drawing Title: CONSTRUCTION MANAGEMENT NOTES + DETAILS	Project No.: 19 - 045	Drawing No.: CMP - 02 · Amdt.: DA1

SEDIMENT & EROSION CONTROL MAINTENANCE SCHEDULE

OBJECTIVE	□ Comply with all Australian Statutory Requirements □ Comply with 'Office of Environment & Heritage: Volume 1 Blue Book' □ Avoid or minimise adverse impacts of potential hazards through proper maintenance of soil and water conservation works □ To mitigate the risk of potential hazards of sediment pollution to downslope areas, neighbouring residences, associated building structures and other community members by keeping soil erosion at the site. □ Ensure water quality run off leaving each site to be of an acceptable standard in accordance with current legislation. Mitigate the risk of penalties where pollution to downslope lands and waterways occurs. Note: legislation does not recognise difficult sites, problems encountered in implementing proposed plan, and poor familiarity with good soil and water standards. □ To address ongoing maintenance of all permanent soil and water control structures in the planning phase. Ensure authority for maintenance successfully passes from the developers/site operators and their contractors to local consent authority. □ Establish and maintain good relations with the community and neighbouring sites.
SITE CONTROL MEASURES	□ Site manager to check the operation of all soil and management works each day and initiate repair or maintenance as required. □ Effective maintenance program should include ongoing modification to any plan as development progresses. Site is subject to changes in slope gradients and drainage paths with their exact form frequently unpredictable before works begin. □ Inspect locations where vehicles enter and leave the site □ Inspect all installed erosion and sediment control measures, ensuring they are operating correctly □ Inspect areas that might show whether sediment or other pollutants are leaving the site or have the potential to do so □ Inspect all discharge points, to assess whether the erosion and sediment control measures are effective in preventing impacts to the receiving waters.

CONTROL MEASURES	TIMING	METHODOLOGY	MONITORING	MEASURE
Education on sediment/ pollution control responsibilities will be provided for staff and subcontractors	Prior to commencing work	As part of the site induction, and repeated through toolbox talks and prestart as required	Induction, toolbox and prestart records	All personnel are aware of the sediment & pollution control measures
Prior to commencement of works, undertake dilapidations surveys at nominated existing/adjoining buildings to determine existing site contamination. Undertake post construction dilapidation surveys at the	Prior to commencing work	Appoint a consultant to undertake the surveys Dilapidation surveys may be	As dictated by the dilapidation consultant Pre-construction	Surveyor report received prior to major works commencing
completion of the development.		staged to reflect the construction program.	inspection	
Empty bins for concrete and mortar slurries, paints, acid washings, lightweight waste materials and litter at least weekly and otherwise as necessary. Dispose of any waste in an approved manner.	Weekly or as required.	Include in contracts with waste sub-contractors. Approved license contractor used.	Site inspections Entry gate pick up records	Registration cited. Nil overfilling of skip bin
Clean any catch drains, diversion banks, table drains, berm drains and drop-down structures (including inlet and outlet works) that have become blocked through sediment pollution etc. Redesign any crossings to permit continued vehicle access without affecting the function of the drain.	As required.	Prior to construction & as required.	Site inspections Maintenance records	Undisturbed site drainage
Check that drains are operating as intended where no low points exist which can overtop in a large storm event. Either raise low points or, temporarily, line the downslope side with sandbags, straw bales etc.	Prior to commencing work & as required.	Consider during work planning.	Site inspections	Undisturbed site drainage
Ensure areas of erosion are repaired by lining suitable material such as grass, plastic, geotextile, rock or concrete. Install additional diversions upslope to reduce velocity of flow.	As required.	Supervision to monitor and ensure correct and efficient operation of erosion control structures.	Site inspections Maintenance records	Minimal erosion downslope
Regularly clean out sediment trapped behind sediment fences and other traps	Weekly or as required.	Include in contracts.	Maintenance records	Minimal sediment volume within traps
Ensure removal of any sand/soil/spoil materials placed closer than 2 metres from hazard areas, such as waterways, gutters, paved areas and driveways.	Weekly or as required.	Include in contracts.	Site inspections	Minimal sediment volume
Control emission of dust from unsealed roads and other exposed surfaces, such as unprotected earth or soil stockpiles, by use of surface sealants and/or water spray carts or other appropriate equipment. Keep the surfaces moist rather than wet.	At all times.	Consider during work planning.	Site inspections	Minimal dust emission Personnel using PPE
Construct additional erosion and /or sediment control works as necessary to ensure the desired protection is given to downslope lands and waterways. Make ongoing changes to the plans.	As required.	Supervision to monitor and ensure correct and efficient operation of erosion control structures.	Site inspections Maintenance records	Minimal erosion downslope
Maintain erosion and sediment control measures until all earthwork activities are completed and the site rehabilitated.	At all times.	Include in contracts.	Site inspections	Minimal erosion downslope
Temporary soil conservation structures/measures are to be removed and surfaces restored to the final landform as the last activity in the works program. Vegetative rehabilitation of these areas can begin following the requirements of the landscaping plan.	Final stages.	Include in contracts.	Site inspections	Final landscape is in accordance with plans and sediment structures removed. Site Inspection
Remove all treatment techniques or structures that are no longer required in a way that complies with safety standards, consent conditions, requirements that sediment and other materials are disposed in an approved manner, and sound construction principles.	Final stages.	Include in contracts.	Site inspections	Final landscape is in accordance with plans and sediment structures removed. Site Inspection
A self-auditing program should be established based on a check sheet developed for the site. A site inspection using the check sheet should be made by the site manager. Undertake the self-audit by: - Walking around the site systematically (e.g. clockwise) - recording the condition of every sediment device - recording maintenance requirements (if any) - recording the volumes of sediment removed from sediment retention systems, where applicable - recording the site where sediment is disposed - forwarding a signed duplicate of the completed Check Sheet to the project manager/ developer/ site operator for their information. Keep a complete set of the self-audit check sheets on-site and make them available to any officer of the local council, NSW DEC or other authorised person on request.	Weekly, immediately before site closure & immediately following rainfall events that cause runoff	Include in contracts.	Ongoing Site Inspections Self-Audit Checklist Maintenance records	Register of Inspection Minimal erosion downslope Undisturbed site drainage
Ensure fuel storage areas are covered and spill should be eliminated as part of a regular equipment maintenance program	At all times.	Consider during work planning & include in contracts	Site inspections	Personnel using PPE No pollutant spills
Building site manager to responsibly manage the following environmentally degrading and pollution source material including waste discharges, leakage or spills, soil, sand , gravel slurries, concrete, and toxic chemicals such as fuels, paints, sealants, adhesives etc.	At all times.	Consider during work planning & include in contracts	Site inspections	Personnel using PPE No pollutant spills

SCALE BAR 1 : 1 On A1 Size Original
0 10 20 30 40 50 60 70 80 90 100
0 20 40 60 40 100 120 140 160 180 200
SCALE BAR 1 : 2 On A3 Size Reduction

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PROPOSED SERVICE STATION
LOT 1,2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

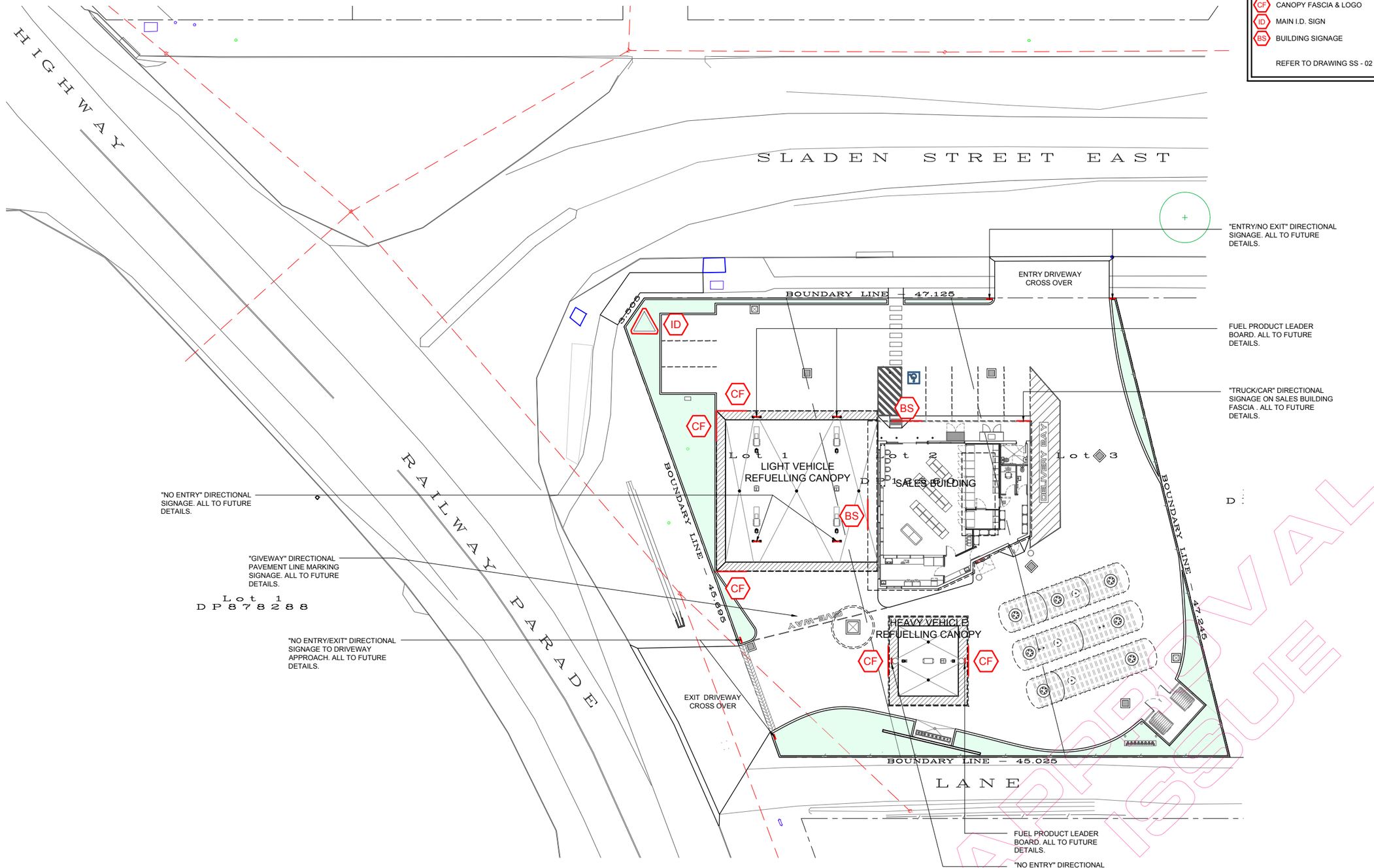
Drawing Title
SEDIMENT MAINTENANCE SCHEDULE

Approved		Designed VP
Date March 2021		Drawn VP
Scale NOT TO SCALE		Checked
Project No. 19 - 045	Drawing No. CMP - 03	Amdt. DA1

SIGNAGE LEGEND :

- CF — CANOPY FASCIA & LOGO
- ID — MAIN I.D. SIGN
- BS — BUILDING SIGNAGE

REFER TO DRAWING SS - 02 FOR SIGNAGE DETAILS.



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SITE SIGNAGE PLAN

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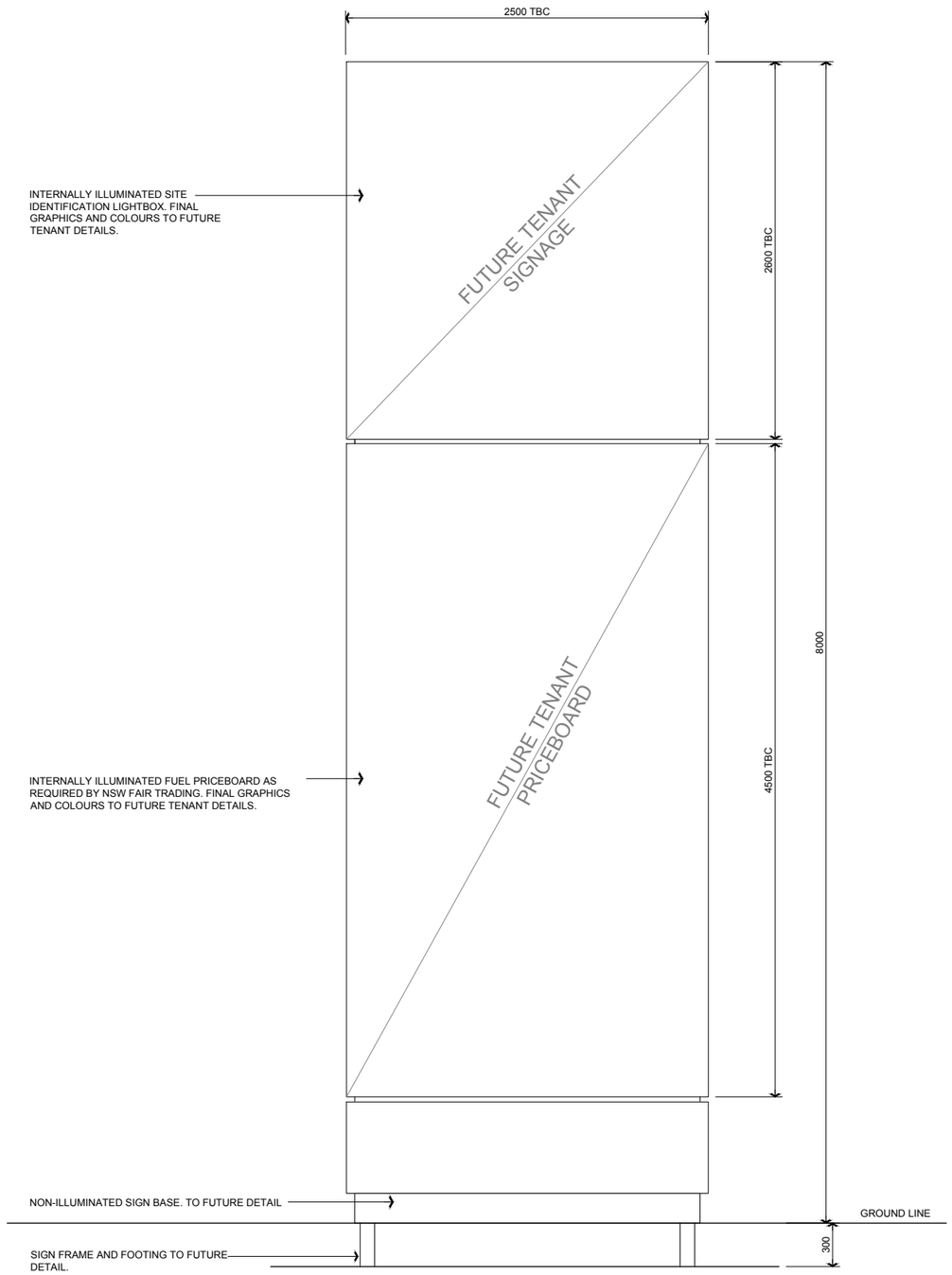
Drawing Title
SITE SIGNAGE PLAN

Approved	Designed VP
Date March 2021	Drawn VP
Scale 1:200 @ A1 & 1:400 @ A3	Checked
Project No. 19 - 045	Drawing No. SS - 01
	Amdt. DA1



MAIN ID SIGN

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3 SIDED FREE STANDING SIGN

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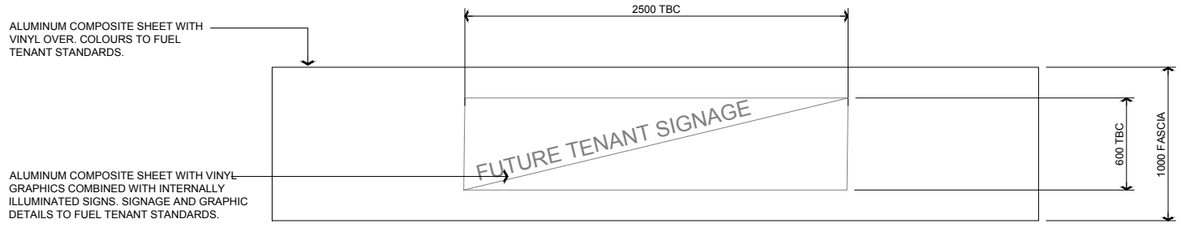

CANOPY FASCIA & LOGO

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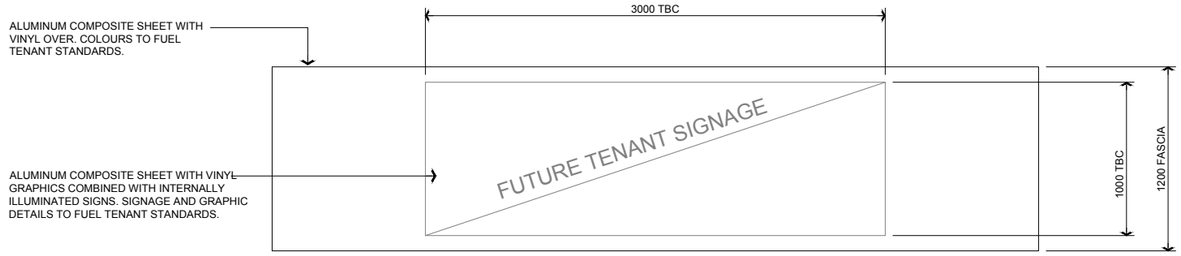
CF



BUILDING FASCIA SIGNAGE

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ONE SIDED

BF

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SCALE BAR 1 : 2 On A3 Size Reduction

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Drawing Title
SIGNAGE DETAILS

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:20 @ A1 & 1:40 @ A3	Checked
Project No.: 19 - 045	Drawing No.: SS - 02
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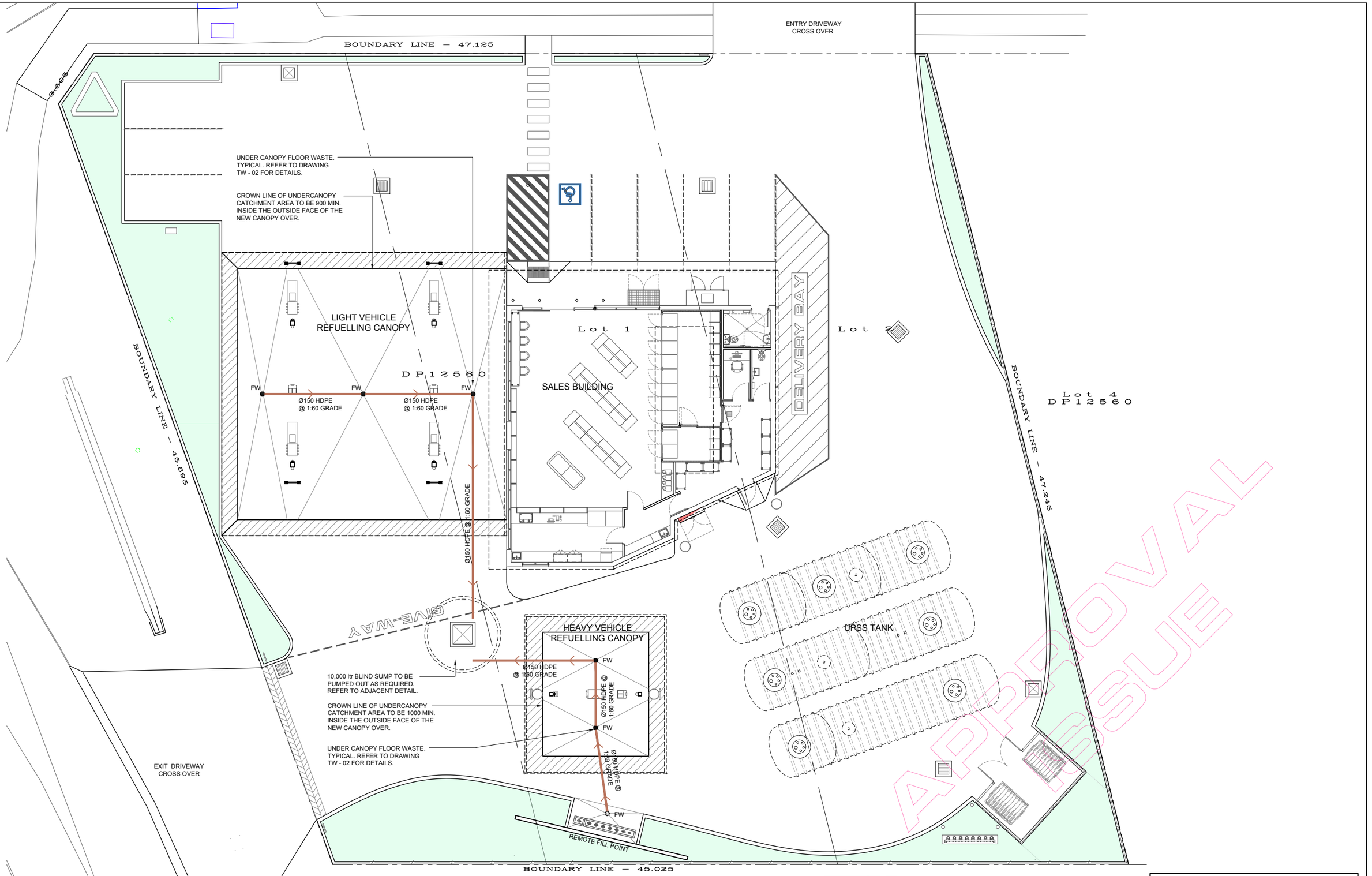

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SCALE BAR 1 : 2 On A3 Size Reduction

TRADE WASTE PLAN

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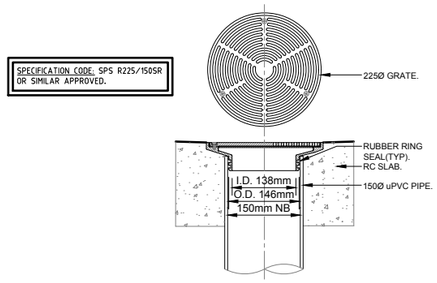
Multi-Discipline Design + Project Management

Project
PROPOSED SERVICE STATION
LOT 1,2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

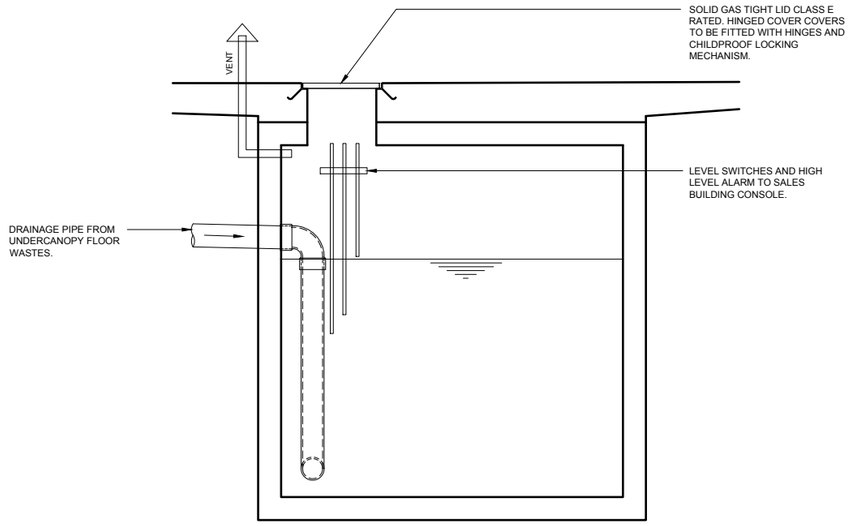
Drawing Title
SITE TRADE WASTE PLAN

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: 1:100 @ A1 & 1:200 @ A3	Checked
Project No.: 19 - 045	Drawing No.: TW - 01
	Amdt.: DA1



UNDER CANOPY 150mmØ FLOOR WASTE

NOT TO SCALE



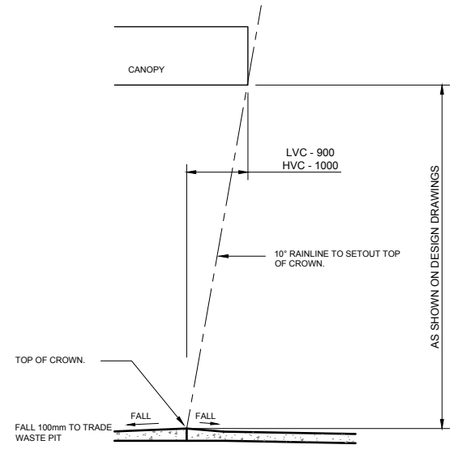
BLIND SUMP

10,000 LITRES Nom. STORAGE

TRADE WASTE SCHEMATIC ELEVATION

NOTES

1. ALL TANKS, EQUIPMENT Etc. IS TO BE SUPPLIED AND INSTALLED BY THE BUILDING CONTRACTOR UNLESS NOTED OTHERWISE.
2. ALL TANKS ARE TO BE PRECAST CONCRETE, AND FITTED WITH LADDER RUNGS IN ACCORDANCE WITH AUSTRALIAN STANDARDS, FOR CLEANOUT PURPOSES. ALL TANKS TO BE FITTED WITH A TRAFFICABLE MANHOLE WITH HINGES AND CHILDPROOF LOCKING MECHANISM. ALL STEELWORK IS TO BE HOT DIPPED GALV.
3. HIGH LEVEL ALARM SYSTEM TO BE INSTALLED SO THAT VISUAL AND AUDIO ALARMS ARE ACTIVATED. PROVIDE VISUAL ALARM (AUDIO AND VISUAL) IN SERVICE STATION CONSOLE AREA. SITE OPERATOR TO ARRANGE DISPOSAL OF SUMP CONTENTS OFF-SITE WITH A SUITABLE TRADE WASTE CONTRACTOR.



BUNDING TYPICAL DETAIL

SCALE : 1:50

APPROVAL ISSUE

SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

No.	Amendment	By	Date
P1	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	11.03.2021
DA1	ISSUED FOR DEVELOPMENT APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	31.03.2021

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Drawing Title
TRADE WASTE DETAILS

Approved	Designed: VP
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Scale: 1:20 @ A1 & 1:40 @ A3	Checked
Project No.: 19 - 045	Drawing No.: TW - 02
	Amdt.: DA1

NOTES :

1. FOR EXISTING LEVELS AND CONTOURS REFER TO SURVEY BY T.J. HINCHCLIFFE & ASSOCIATES Pty Ltd JOB REF. 19270 FOR FULL SURVEY DETAILS.
2. FOR PROPOSED LEVELS AND CONTOURS REFER TO DRAWING A - 04.

EXISTING KIP/SEP.

ASSUMED INVERT OF EXISTING PIT I.L. 237.84. CONTRACTOR TO CONFIRM LEVELS PRIOR TO COMMENCEMENT OF WORKS.

IL. 237.086

Ø225 PVC @ MIN 0.5% FALL

BOUNDARY LINE — 47.125

ENTRY DRIVEWAY CROSS OVER

JP 600 x 600
CLASS 'D' LID
CL. 239.10
US IL. 237.91
DS IL. 238.89

Ø225 PVC @ MIN 0.5% FALL

SWP 600 x 600
CLASS 'D' LID
CL. 238.92
US IL. 238.10
DS IL. 238.08

Ø225 PVC @ MIN 0.5% FALL

SWP 600 x 600
CLASS 'D' LID
CL. 238.92
US IL. 237.98
DS IL. 238.96

Ø150 PVC @ MIN 0.5% FALL

Ø150 PVC @ MIN 0.5% FALL

CHARGED PIPEWORK TO PICK UP DOWNPIPES.

SWP 600 x 600
CLASS 'E' LID
CL. 239.00
US IL. 238.19
DS IL. 238.10

Ø150PVC @ MIN 0.5% FALL

DP

Ø150 PVC @ MIN 0.5% FALL

DP

LIGHT VEHICLE REFUELLING CANOPY

D P 1 2 5 6 0

Lot 1

SALES BUILDING

DELIVERY BAY

Lot

Lot 4
D P 1 2 5 6 0

BOUNDARY LINE — 47.245

BOUNDARY LINE — 45.695

CHARGED PIPEWORK TO PICK UP DOWNPIPES.

Ø150PVC @ MIN 0.5% FALL

DP

Ø150 PVC @ MIN 0.5% FALL

DP

Ø150 PVC @ MIN 0.5% FALL

Ø150 PVC @ MIN 0.5% FALL

Ø150 PVC @ MIN 0.5% FALL

DP

Ø150 PVC @ MIN 0.5% FALL

SWP 600 x 600
CLASS 'E' LID
CL. 239.00
IL. 238.26

PROVIDE NEW HEADWALL TO EXISTING OPEN DRAIN FOR NEW SITE STORMWATER DISHARGE.

EXISTING OPEN DRAIN

PROVIDE NEW HEADWALL TO NEW EXISTING MAIN EXTENSION. ALL TO SUIT COUNCIL REQUIREMENTS.

Ø150 PVC @ MIN 0.5% FALL

DRIVE-WAY

HEAVY VEHICLE REFUELLING CANOPY

DP

URSS TANK

JP 600 x 600
CLASS 'E' LID
CL. 239.10
US IL. 238.32
DS IL. 238.30

Ø150 PVC @ MIN 0.5% FALL

SWP 600 x 600
CLASS 'E' LID
CL. 238.70
IL. 238.40

Ø150 PVC @ MIN 0.5% FALL

SWP 600 x 600
CLASS 'E' LID
CL. 239.00
IL. 238.35

EXTEND EXISTING U.G PIPE UNDER NEW DRIVEWAY FROM EXISTING U/G PIPE TO NEW HEAD WALL. SIZE MATERIAL AND FALL TO MATCH EXISTING. ALL TO SUIT COUNCIL REQUIREMENTS.

EXIT DRIVEWAY CROSS OVER

REMOTE FILL POINT

BOUNDARY LINE — 45.025

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

STORMWATER DRAINAGE PLAN

THIS DRAWING IS TO BE PRINTED AND DISTRIBUTED IN COLOUR

ISSUED FOR DEVELOPMENT APPROVAL NOT FOR CONSTRUCTION

No.	Amendment	By	Date
P1	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	26.03.2021
P2	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	29.03.2021
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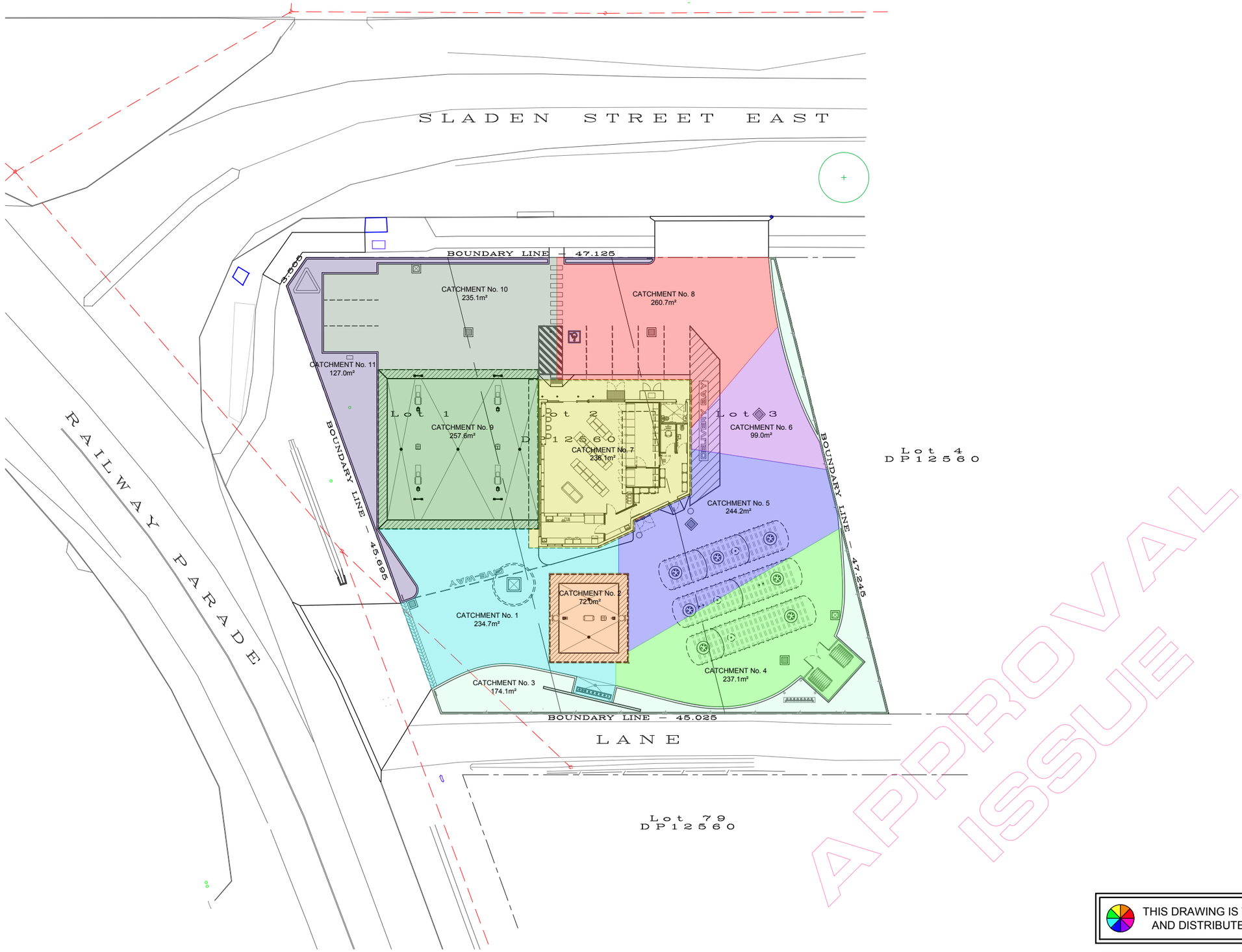
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
STORMWATER DRAINAGE PLAN

Approved	Designed: SF
Date: March 2021	Drawn: VP
Scale: 1:100 @ A1 & 1:200 @ A3	Checked
Project No.: 19 - 045	Drawing No.: SD - 01
	Amdt.: DA1



APPROVAL ISSUE

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SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

STORMWATER CATCHMENT PLAN

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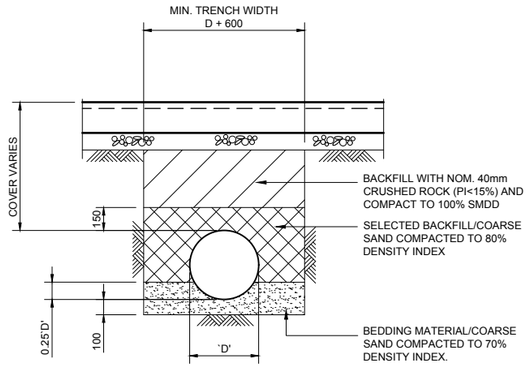
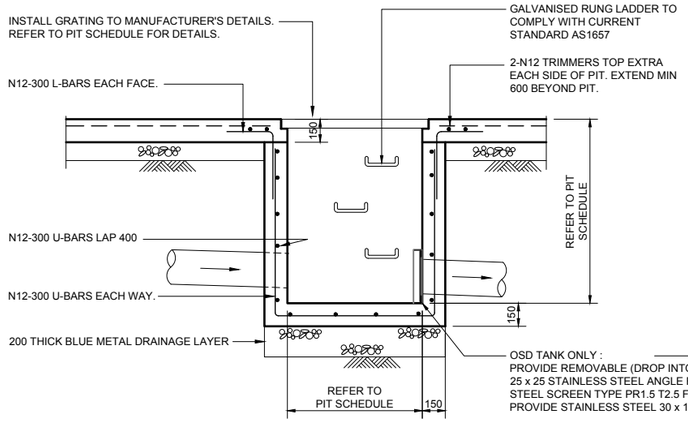
Drawing Title
STORMWATER CATCHMENT PLAN

Approved			Designed SF
Date March 2021			Drawn VP
Scale 1:200 @ A1 & 1:400 @ A3			Checked
Project No. 19 - 045	Drawing No. SD - 02		Amdt. DA1

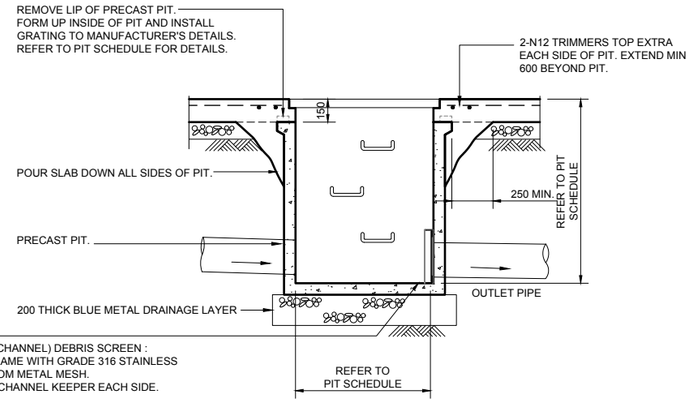
NOTE: THE CHOICE TO USE EITHER CAST INSITU OR PRECAST STORMWATER PITS TO BE MADE BY THE CONTRACTOR.



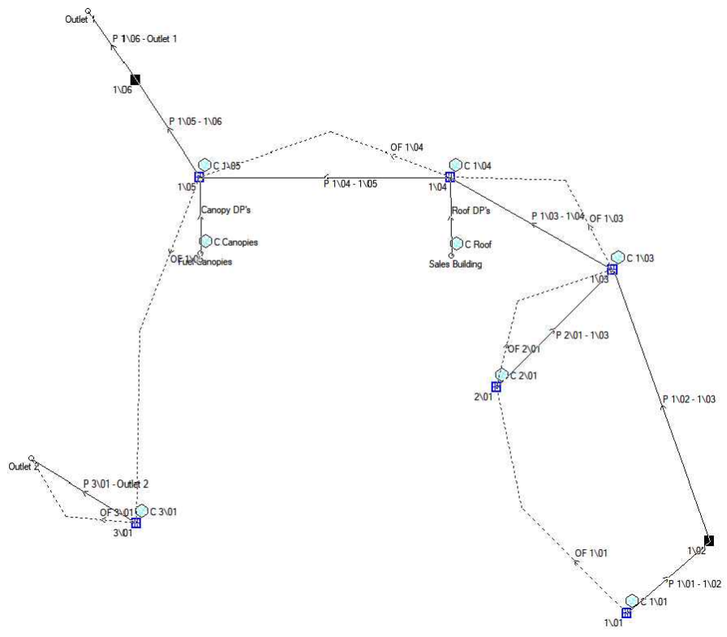
TYPICAL PIPE TRENCH DETAIL



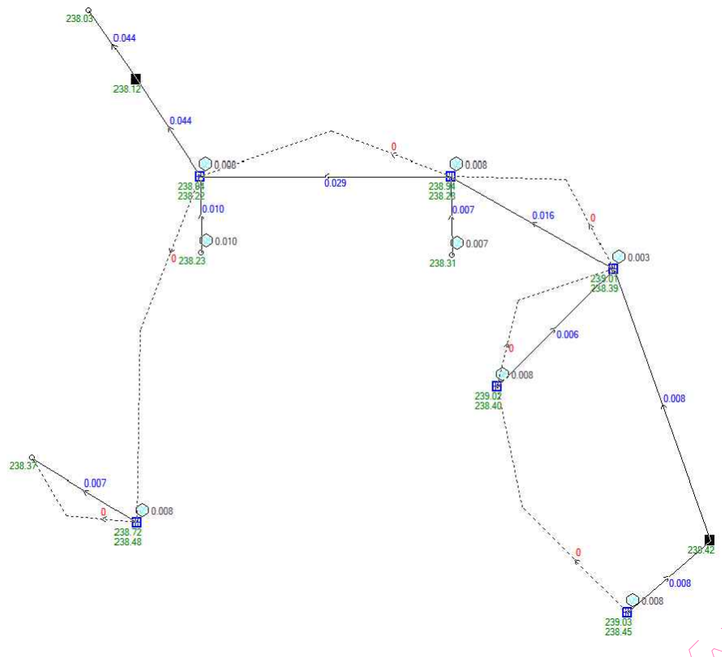
TYPICAL INSITU STORMWATER DRAINAGE PIT DETAIL



TYPICAL PRECAST STORMWATER DRAINAGE PIT DETAIL



DRAINS MODEL PIT & PIPE ARRAGEMENT



10% AEP - DRAINS MODEL OUTPUT

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

SCALE BAR 1 : 2 On A3 Size Reduction

0 20 40 60 80 100 120 140 160 180 200

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PROPOSED SERVICE STATION
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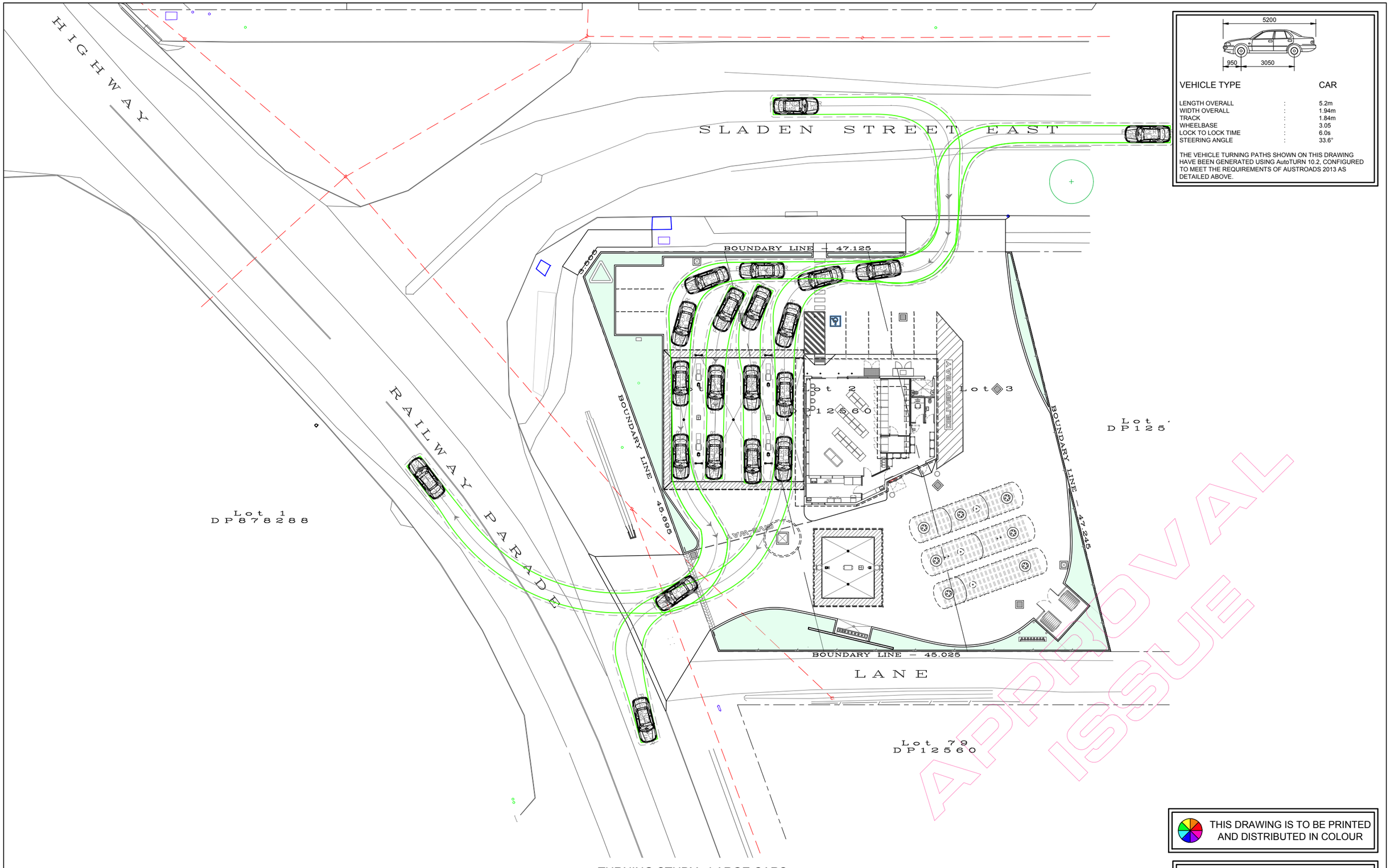
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
STORMWATER DRAINAGE DETAILS

Approved	Designed: SF
Date: March 2021	Drawn: VP
Scale: 1:20 @ A1 & 1:40 @ A3	Checked
Project No.: 19 - 045	Drawing No.: SD - 03
	Amdt.: DA1



VEHICLE TYPE		CAR
LENGTH OVERALL	:	5.2m
WIDTH OVERALL	:	1.94m
TRACK	:	1.84m
WHEELBASE	:	3.05
LOCK TO LOCK TIME	:	6.0s
STEERING ANGLE	:	33.6°

THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 10.2, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTROADS 2013 AS DETAILED ABOVE.

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SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 40 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

TURNING STUDY - LARGE CARS

No.	Amendment	By	Date
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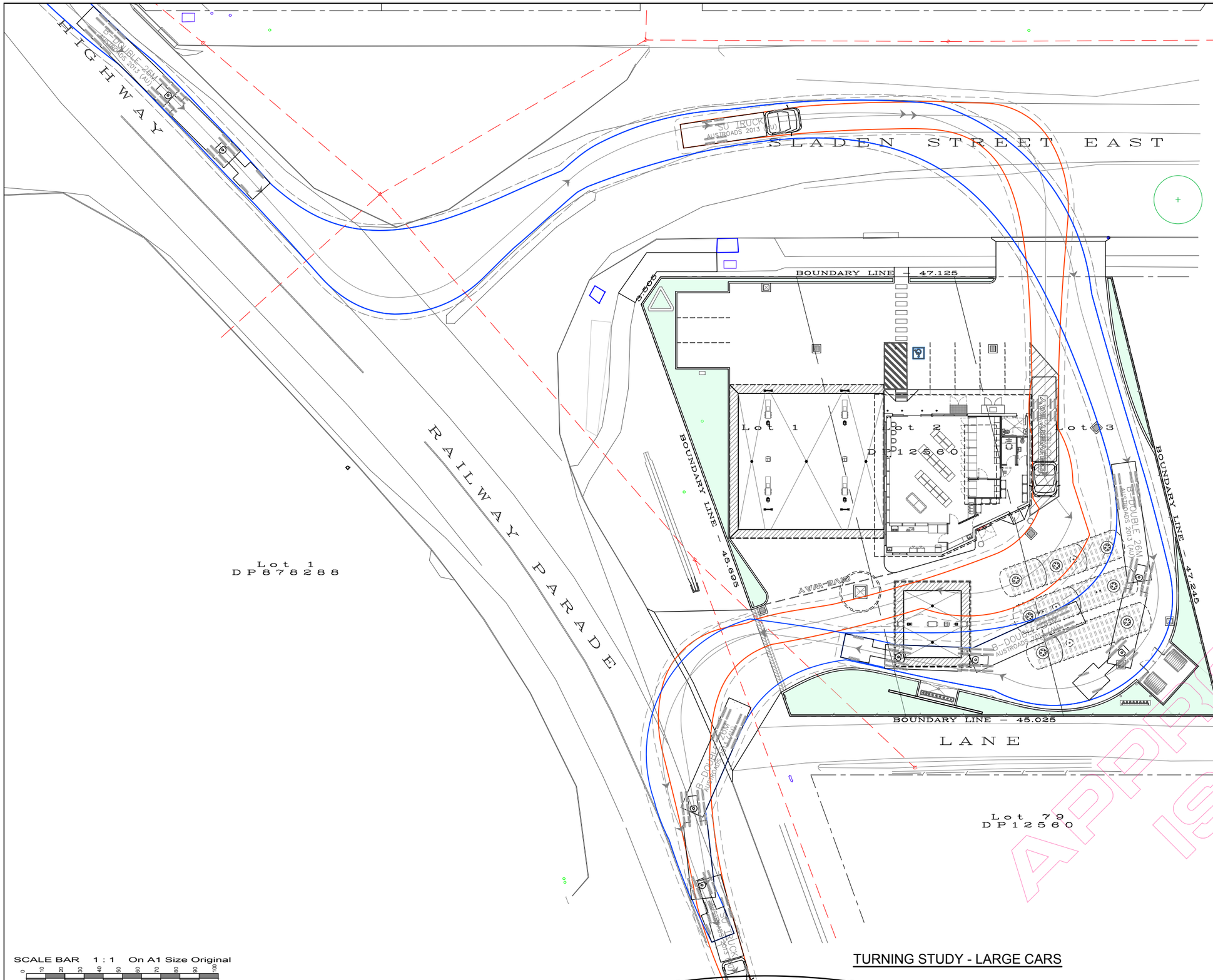
Project
PROPOSED SERVICE STATION
LOT 1,2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
TURNING STUDY - LARGE CARS

Approved	Designed
	VP
Date: March 2021	Drawn: VP
Scale: 1:200 @ A1 & 1:400 @ A3	Checked
Project No.: 19 - 045	Drawing No.: TS - 01
	Amdt.: DA1



VEHICLE TYPE		B-DOUBLE
LENGTH OVERALL	:	26m
TRACTOR WIDTH	:	2.5m
TRAILER WIDTH	:	2.5m
TRACTOR TRACK	:	2.5m
TRAILER TRACK	:	2.5m
LOCK TO LOCK TIME	:	6.0s
STEERING ANGLE	:	23.4°
ARTICULATING ANGLE	:	70.0°

THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 10.2, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTROADS 2013 AS DETAILED ABOVE.

VEHICLE TYPE		SINGLE UNIT TRUCK
LENGTH OVERALL	:	12.5m
WIDTH OVERALL	:	2.5m
TRACK	:	2.5m
WHEEL BASE	:	6.85m
LOCK TO LOCK TIME	:	6.0s
STEERING ANGLE	:	36.6°

THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 10.2, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTROADS 2013 AS DETAILED ABOVE.

SCALE BAR 1 : 1 On A1 Size Original

SCALE BAR 1 : 2 On A3 Size Reduction

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TURNING STUDY - LARGE CARS

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PROPOSED SERVICE STATION
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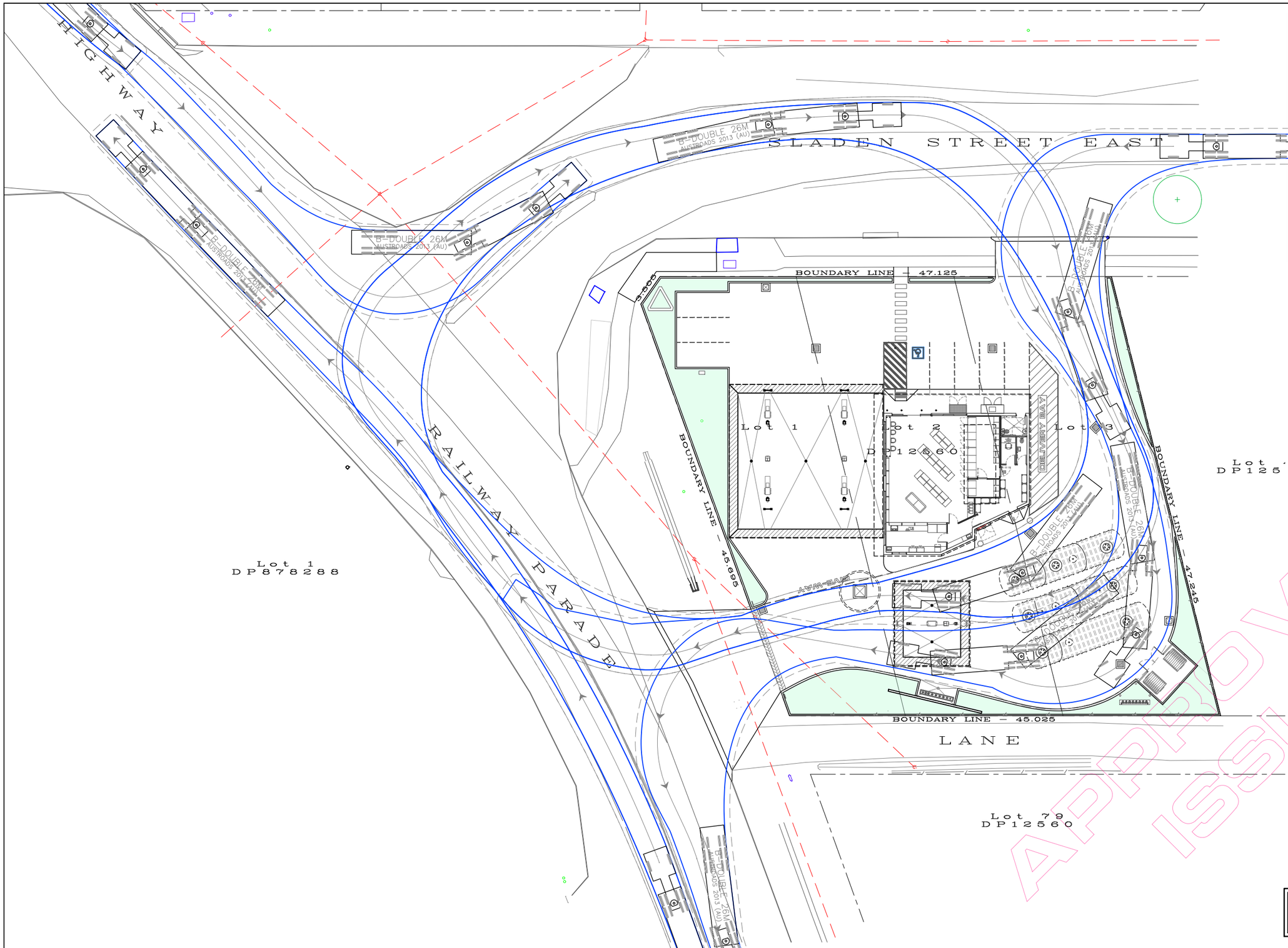
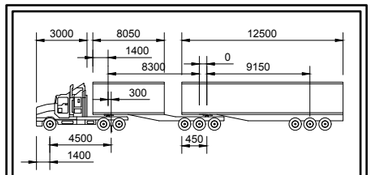
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
TURNING STUDY - DELIVERY TRUCKS

Approved		Designed
		VP
Date		Drawn
March 2021		VP
Scale		Checked
1:200 @ A1 & 1:400 @ A3		
Project No.	Drawing No.	Amdt.
19 - 045	TS - 02	DA1





VEHICLE TYPE		B-DOUBLE
LENGTH OVERALL	:	26m
TRACTOR WIDTH	:	2.5m
TRAILER WIDTH	:	2.5m
TRACTOR TRACK	:	2.5m
TRAILER TRACK	:	2.5m
LOCK TO LOCK TIME	:	6.0s
STEERING ANGLE	:	23.4°
ARTICULATING ANGLE	:	70.0°

THE VEHICLE TURNING PATHS SHOWN ON THIS DRAWING HAVE BEEN GENERATED USING AutoTURN 10.2, CONFIGURED TO MEET THE REQUIREMENTS OF AUSTROADS 2013 AS DETAILED ABOVE.

TURNING STUDY - TRUCKS

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

0 20 40 60 80 100 120 140 160 180 200

SCALE BAR 1 : 2 On A3 Size Reduction

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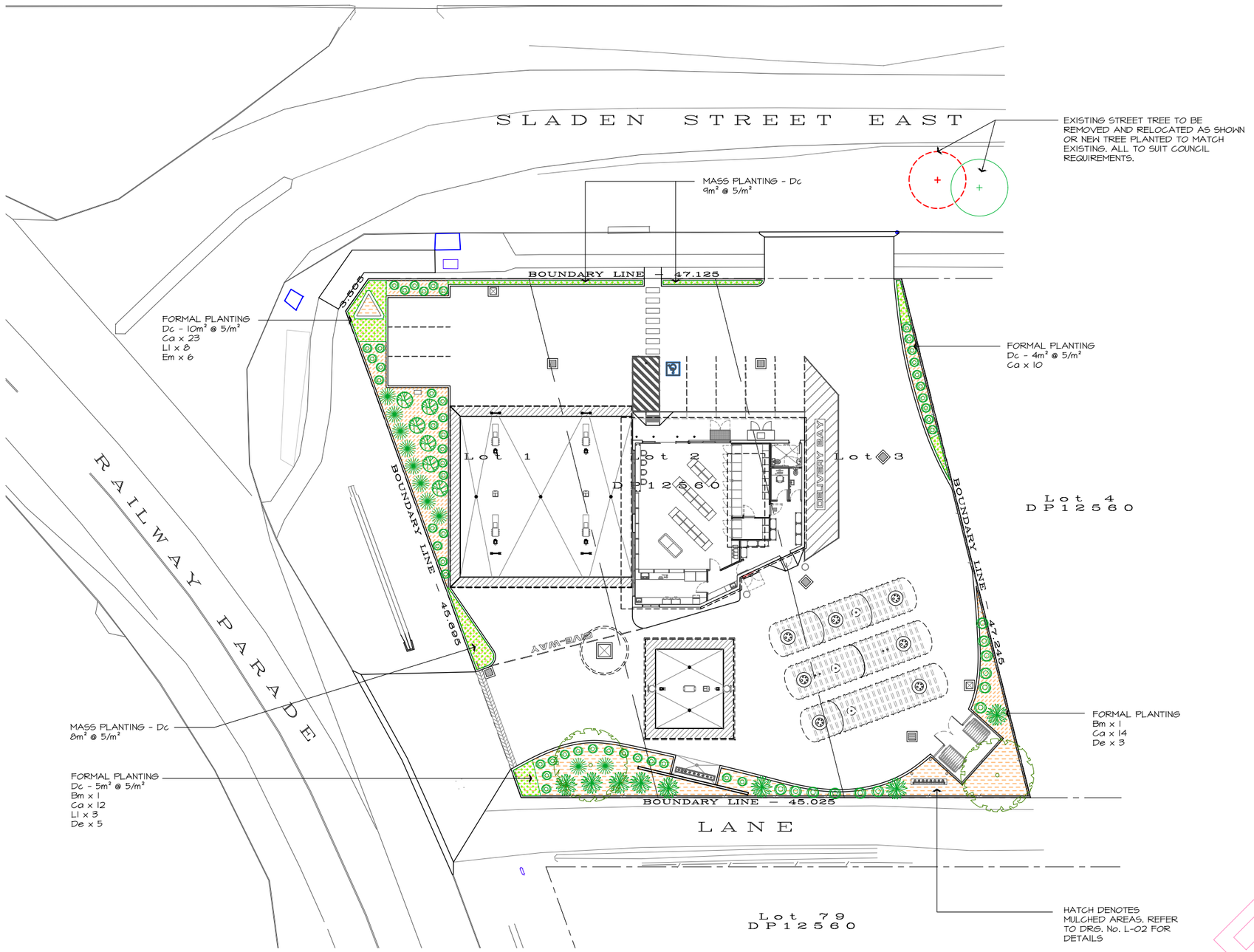

PLANT SCHEDULE

BANKSIA MARGINATA

SILVER BANKSIA
5.0m H x 5.0m W
150 mm

Bm - 2 OFF

CAREX APPRESSA

TALL SEDGE
1.0m H x 0.6m W
TUBE

Ca - 60 OFF

DORYANTHES EXCELSA

GYMEA LILY
3.0m H x 1.5m W
45 L

De - 8 OFF

ERIOSTEMON MYOPOROIDES

LONG LEAF WAX FLOWER
1.5m H x 1.5m W
150 mm

Em - 6 OFF

DIANELLA CAERULEA 'LITTLE JESS'

FLAX LILY, PAROO LILY
0.5m H x 0.5m W
TUBE

Dc - 30m² @ 5/m²

LOMANDRA LONGIFOLIA SP.

MAT RUSH
0.9m H x 1.2m W
150 mm

Ll - 10

LANDSCAPE PLAN

PROVIDE SUBSOIL DRAINAGE AND PIPEWORK FOR AUTOMATIC IRRIGATION SYSTEM TO ALL LANDSCAPED AREAS. REFER TO DRG. No. L-02 FOR DETAILS. PROVIDE 40mm PVC CONDUIT UNDER CONCRETE PAVED AREAS WHERE REQUIRED.

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

SCALE BAR 1 : 2 On A3 Size Reduction

0 20 40 60 80 100 120 140 160 180 200

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R.J. SINCLAIR Pty Ltd
Building Design
Office : Suite B111 - Sky City
NorWest Business Park
20 Lexington Drive
BELLA VISTA NSW 2153
Postal : PO Box 503
ROUND CORNER NSW 2158
Phone : 02 8883 0999
E-mail : designs@rjsinclair.com.au
Web : www.rjsinclair.com.au
Multi-Discipline Design + Project Management

Project
PROPOSED SERVICE STATION
LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
LANDSCAPE PLAN

Approved	Designed VP
Date March 2021	Drawn VP
Scale 1:200 @ A1 & 1:400 @ A3	Checked
Project No. 19 - 045	Drawing No. L - 01
	Amdt. DAI

LANDSCAPING SPECIFICATION

VEGETATION CONTROL
ALL ON SITE VEGETATION OTHER THAN THAT FOR RETENTION IS TO BE REMOVED FROM SITE EITHER BY EXCAVATING THE UPPER 200mm OR BY USE OF HERBICIDE WITH NON-RESIDUAL EFFECT.

EXCAVATION
EXCAVATE ALL MASS (TREE/SHRUB/GROUND COVER) PLANTING AREAS TO A DEPTH OF 300mm BELOW ADJACENT FINISHED LEVELS.

CULTIVATION
ALL EXCAVATED PLANTING AREAS ARE THEN TO BE CULTIVATED BY HARROWING OR RIPPING, ENSURING NO DAMAGE OCCURS TO TREES OR SHRUBS.

PLANTING MIX
SUPPLY AND INSTALL TO ALL MASS PLANTING AREAS, IN MAXIMUM 150mm CONSOLIDATED LAYERS, A PLANTING MIX COMPRISING OF 3 PARTS TOPSOIL AND 1 PART DECOMPOSED COW MANURE OF NATURAL PH VALUE. THOROUGHLY INCORPORATE WITH PREPARED SUBGRADE AND FINISH 50mm BELOW ADJACENT LEVEL.

PLANTING
ALL PLANT MATERIAL I.E. SHRUBS AND GROUND COVERS, IS TO BE WELL GROWN OF TYPICAL FORM, NOT SOFT OR FORCED, BE HARDENED OF AND HAVE HEALTHY WELL DEVELOPED ROOT SYSTEMS. NO INDIVIDUAL PLANT IS TO BE ROOT BOUND AND EACH MUST BE FREE FROM DISEASE AND INSECT PESTS.

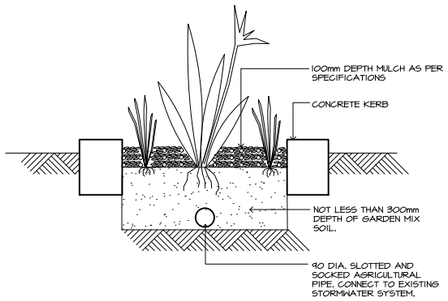
TO PLANT, EXCAVATE A HOLE TWICE THE DIAMETER OF THE ROOT BALL, PRESS FERTILIZER PELLETS EQUIVALENT TO KOKEI RELEASE AROUND BASE OF EACH HOLE AT THE RATE SPECIFIED.

TURFING
PROVIDE 200MM OF TOPSOIL TO MATCH THE TOP OF EXISTING GROUND LEVEL PRIOR TO THE LAYING OF THE TURF.
TURF TO BE WINTERGREEN VARIETY COUCHGRASS.

MULCHING
ALL PLANTING AREAS ARE TO BE MULCHED WITH A MINIMUM 100mm DEEP LAYER OF LOCAL RIVER SHINGLE SPALLS (ROCK CHIPS).

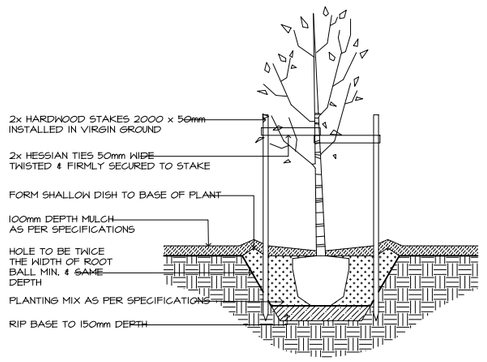
MAINTENANCE
THE FOLLOWING MATTERS ARE TO BE ATTENDED TO FOR A PERIOD OF 13 WEEKS:
- WATERING
- WEEDING
- FERTILIZING
- REPLACEMENT OF ANY FAILED PLANTS
- RECTIFICATION OF ANY SOIL SUBSIDENCE

IRRIGATION
THE BUILDING CONTRACTOR SHALL SUPPLY AND INSTALL AN "OFF THE SHELF" FULLY AUTOMATIC WATERING SYSTEM TO ALL LANDSCAPED AREAS. CONNECT TO RAIN WATER TANK AND PROVIDE BALL VALVE AT TANK. PROVIDE A HARVESTED RAINWATER / POTABLE WATER CROSSOVER SYSTEM, SUCH AS A "RAINBANK" COMPLETE WITH SOLENOID VALVES TO ALLOW SYSTEM TO CONTINUE OPERATING WHEN RAINWATER TANK IS EMPTY. PROVIDE A BACKFLOW PREVENTION DEVICE BETWEEN IRRIGATION SYSTEM AND SITE RETICULATION. PROVIDE AN AUTOMATIC CONTROLLER THAT PROVIDES FOR MULTIPLE ZONE SCHEDULING AND HOURLY MULTI-CYCLE OPERATION. THE CONTROLLER SHALL HAVE A MANUAL OVERRIDE. IF MICRO SPRAY HEADS ARE INCLUDED THEY SHALL BE CAPABLE OF BEING TURNED OFF OR ISOLATED DURING DESIGNATED PERIOD OF WATER RESTRICTIONS WHILE STILL BEING ABLE TO OPERATE DRIPPER. THE CONTROLLER SHALL HAVE A SECURE HOUSING AND BE PROTECTED FROM THE WEATHER. EXTEND ELECTRICAL SERVICES AS REQUIRED TO CONTROLLER, AND PROVIDE ALL CONNECTIONS WITH WATERPROOF CONNECTORS.



TYPICAL GARDEN BED SECTION

NOT TO SCALE



TYPICAL PLANTING DETAIL

NOT TO SCALE

SCALE BAR 1 : 1 On A1 Size Original

0 10 20 30 40 50 60 70 80 90 100

SCALE BAR 1 : 2 On A3 Size Reduction

0 20 40 60 80 100 120 140 160 180 200

ISSUED FOR DEVELOPMENT APPROVAL
NOT FOR CONSTRUCTION

No.	Amendment	By	Date
PI	PRELIMINARY ISSUE FOR DISCUSSION PURPOSES ONLY. NOT FOR CONSTRUCTION.	VP	11.03.2021
DAI	ISSUED FOR DEVELOPMENT APPROVAL ONLY. NOT FOR CONSTRUCTION.	VP	31.03.2021

Chartered Member
Australian Institute of Architects
Accredited Building Designers
Victoria : RBP DP-AD 13529
Queensland : QBCC 1082914
Tasmania : ABP CC6910

R.J. SINCLAIR Pty Ltd
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Project
PROPOSED SERVICE STATION
LOT 1, 2 & 3 DP12560 - RAILWAY PARADE Cnr SLADEN STREET EAST
HENTY NSW 2658
FOR
NORTH MANILA PETROLEUM Pty Ltd

Drawing Title
LANSCAPING NOTES AND DETAILS

Approved	Designed: VP
Date: March 2021	Drawn: VP
Scale: NTS	Checked
Project No.: 19 - 045	Drawing No.: L - 02
	Amdt.: DAI

Locked Bag 2906, Lisarow NSW 2252
Customer Experience 13 10 50
ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D21/093860

1 July 2021

Mr Nick Caltabiano and Mr Luke Breva
NEO Consulting Pty Ltd
nick@neoconsulting.com.au, luke@neoconsulting.com.au

Dear Mr Caltabiano and Mr Breva

RE SITE: Railway Parade Corner Sladen Street, East Henty, NSW, 2658

I refer to your site search request received by SafeWork NSW requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely

Gabriela Draper

Licensing Representative
Licensing and Funds, Better Regulation
SafeWork NSW

ADVANCE LEGAL SEARCHERS PTY LTD

(ACN 147 843 842)
ABN 82 147 943 842

18/36 Osborne Road,
Manly NSW 2095

Telephone: +612 9977 6713
Mobile: 0412 169 809
Email: search@alsearchers.com.au

17th June, 2021

NEO CONSULTING PTY LIMITED
P.O. Box 279
RIVERSTONE NSW 2765

Attention: Nick Caltabiano,

RE: **Corner Railway Parade & Sladen Street,**
Henty
Job Reference: Henty

Current Search

Folio Identifier Auto Consol 4272-206 (title attached)
Lots 1, 2 & 3 DP 12560 (plan attached)
Dated 16th June, 2021
Registered Proprietor:
NORTH MANILLA PETROLEUM PTY LTD *(ACN 612 851 368)*

Title Tree
Lots 1, 2 & 3 DP 12560

Folio Identifier Auto Consol 4272-206

Certificate of Title Volume 4272 Folio 206

Certificate of Title Volume 4037 Folio 82

Certificate of Title Volume 3450 Folio 100

****

Summary of proprietor(s)
Lots 1, 2 & 3 DP 12560

Year	Proprietor(s)
	(Lots 1, 2 & 3 DP 12560 – A/C 4272-206)
2018 – todate	North Manilla Petroleum Pty Ltd *(ACN 612 851 368)*
1999 – 2018	Henty Machinery Field Days Co-Operative Limited
1998 – 1999	Robert Michael Harrison
1996 – 1998	Edward Arthur Dale
1993 – 1996	Barry James Schneider, farmer
	(Lots 1, 2 & 3 DP 12560 – Area 2 Roods 5 ¾ Perches – CTVol 4272 Fol 206)
1968 – 1993	Barry James Schneider, farmer
1968 – 1968	Geier Farm Equipment Pty Limited
1953 – 1968	Edward Clarence Geier, garage proprietor
1933 – 1953	Stanley Robert Doig, garage proprietor
1933 – 1933	John Barrie, junior, contractor
1929 – 1933	Bendigo Mutual Permanent Land and Building Society
1929 – 1929	John Barrie, junior, contractor
	(Lots 1, 2 & 3 DP 12560 and other lands – Total Area 13 Acres 0 Roods 4 Perches – CTVol 4037 Fol 82)
1927 – 1929	William Henry Murrell, builder
	(Part Portion 1 Parish Henty – Area 116 Acres 1 Rood 20 Perches – CTVol 3450 Fol 100)
1923 – 1927	William John Scott, grazier William Henry Murrell, builder John Joseph Crennan, auctioneer Albert Gordon Clements, storekeeper

****

Cadastral Records Enquiry Report : Lot 2 DP 12560

Ref : NOUSER

Locality : HENTY
Parish : HENTY
LGA : GREATER HUME SHIRE
County : HUME

This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

	Status	Surv/Comp	Purpose
DP1132262			
Lot(s): 1, 2			
DP859575	HISTORICAL	SURVEY	SUBDIVISION
DP1128127	HISTORICAL	SURVEY	SUBDIVISION
DP1221963			
Lot(s): 5557			
CA176063 - LOT 5557 DP1221963			

Plan	Surv/Comp	Purpose
DP12486	SURVEY	UNRESEARCHED
DP12560	SURVEY	UNRESEARCHED
DP224378	SURVEY	SUBDIVISION
DP301282	SURVEY	UNRESEARCHED
DP583251	COMPILATION	SUBDIVISION
DP604639	SURVEY	SUBDIVISION
DP652787	COMPILATION	DEPARTMENTAL
DP667767	COMPILATION	DEPARTMENTAL
DP667768	COMPILATION	DEPARTMENTAL
DP667769	COMPILATION	DEPARTMENTAL
DP758514	COMPILATION	CROWN ADMIN NO.
DP787277	SURVEY	SUBDIVISION
DP839946	SURVEY	PRIMARY APPLN NON SUBDIVISION
DP851571	SURVEY	SUBDIVISION
DP859575	SURVEY	SUBDIVISION
DP878288	SURVEY	SUBDIVISION
DP946953	COMPILATION	UNRESEARCHED
DP1112743	COMPILATION	LIMITED FOLIO CREATION
DP1132262	SURVEY	SUBDIVISION
DP1221963	COMPILATION	LIMITED FOLIO CREATION

97-01TP

TRANSFER UNDER POWER OF SALE

Section 58 Real Property Act 1900

2175055 R

Office o

07/05/1996 $2.00 994001611 27
2099911 4272-206 TFR
COMMONWEALTH BANK DALE EA
$13000.00 $0.00 041709

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

Auto Consol 4272-206

(B) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone
35D	MORRIS, HAYES & EDGAR LAW STATIONERS 74 CASTLEREAGH ST., SYDNEY DX 420 232 2411 REFERENCE (max. 15 characters): 188 8978Tiethens

(C) **TRANSFEROR** COMMONWEALTH BANK OF AUSTRALIA ACN 123 123 124

being the mortgagee in **MORTGAGE** Z533076 dated 27th August, 1980 from the registered proprietor of the above Land, acknowledges receipt of the consideration of $ 13,000.00 and in exercise of power of sale under that Mortgage transfers an estate in fee simple in the above Land to the Transferee

(D) subject to the following **ENCUMBRANCES** 1. Nil 2. 3.

(E) **TRANSFEREE**

TP

EDWARD ARTHUR DALE

(F) ~~TENANCY:~~ OFF ME Z533076

(G) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATE** 17-5-96

Signed in my presence by the transferor who is personally known to me

SIGNED IN MY PRESENCE BY
TREVOR ROGER BROWN
Signature of Witness
.....
(Name of Witness BLOCK LETTERS)
of the Commonwealth Bank of Australia, ACN 123 123 124, the duly constituted Attorney of the said Bank who is personally known to me.
.....
Address of Witness
VICKI HAMILTON
Level 1, Cnr Pitt St & Martin Place Sydney

COMMONWEALTH BANK OF AUSTRALIA ACN 123 123 124 by its attorney who is MANAGER ASSET MANAGEMENT LENDING SERVICES for the time being at Sydney and who is the attorney mentioned and referred to in power of Attorney registered in the LAND TITLES Book 4043 No. 617

Signature of Transferor

Signed in my presence by the transferee who is personally known to me.

.....
Signature of Witness

.....
Name of Witness (BLOCK LETTERS)

.....
Address of Witness

(Richard Hickey)

.....
Signature of Transferee solicitor

CHECKED BY (office use only)

6296166F

2

97-01T Licence Number 022CN/0500/96

TRANSFER

New South Wales
Real Property Act 19

OFFICE OF STATE REVENUE (N.S.W. TREASURY)
CLIENT No. 58591 STAMP No. 212
STAMP DUTY $2-00 SIGNATURE
TRANSACTION No. 9 DATE 21/10/99
ASSESSMENT DETAILS:

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

$2.00

(A) LAND TRANSFERED
Show no more than 20 References to Title.
If appropriate, specify the share transfered.

Auto Consol 4272-206

(B) LODGED BY

L.T.O. Box	Name, Address or DX and Telephone
35D	MORRIS, HAYES & EDGAR LAW STATIONERS 74 CASTLEREAGH ST., SYDNEY DX 9232 2411

/BJ4057 Commins(H)

REFERENCE (max. 15 characters)

(C) TRANSFEROR ROBERT MICHAEL HARRISON

(D) acknowledges receipt of the consideration of $22,000.00
and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) Encumbrances (if applicable) 1. Nil 2. 3.

(F) TRANSFEREE

T TS (s713LGA) TW (Sheriff)	HENTY MACHINERY FIELD DAYS CO-OPERATIVE LIMITED

(G) ~~TENANCY~~:

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. DATE 15-10-99

Signed in my presence by the Transferor who is personally known to me.

L. E. Kelly
Signature of Witness

Lorraine Kelly
Name of Witness (BLOCK LETTERS)

P.O. Box 73 Glenelg
Address of Witness

Signature of Transferor

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

(CA Lollback)
Signature of Transferee's Solicitor

NB: if signed on the transferee's behalf by a solicitor or licensed conveyancer, show the signatory's full name in block letters.

CHECKED BY (LTO use) 9

System Document Identification

Form Number: 01T-e
Template Number: T_nsw16
ELN Document ID: 7535689
ELN NOS ID: 7535690

TRANSFER

New South Wales
Real Property Act 1900

Land Registry Document Identification

AN686124

Stamp Duty: 9435533-001

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

LODGED BY:

Responsible Subscriber: ROSTRON CARLYLE SOLICITORS NSW PTY LTD ABN 54164871032
Address: SE 13.05, 88 Phillip ST
Sydney 2000
Telephone:
PEXA Subscriber Number: 24232
Customer Account Number: 503470E
Document Collection Box: 1W
Client Reference: SD840482

LAND TITLE REFERENCE

4272-206

TRANSFEROR

HENTY MACHINERY FIELD DAYS CO-OPERATIVE LIMITED
Co-operative

TRANSFEREE

NORTH MANILLA PETROLEUM PTY LTD ACN 612851368
Registered company

Tenancy: Sole Proprietor

CONSIDERATION

The transferor acknowledges receipt of the consideration of $55,000.00

ESTATE TRANSFERRED

FEE SIMPLE

The Transferor transfers to the Transferee the Estate specified in this Instrument and acknowledges receipt of any Consideration shown.

SIGNING FOR TRANSFEROR

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferor.

Party Represented by Subscriber:

HENTY MACHINERY FIELD DAYS CO-OPERATIVE LIMITED

Signed By: Sean Daly
Signer Capacity: Practitioner Certifier
PEXA Signer Number: 19517
Digital Signing Certificate Number: 10855

Signed for Subscriber: KENT MCRAE PTY LTD ABN 52145337926

KENT MCRAE LAWYERS

Subscriber Capacity: Representative Subscriber
PEXA Subscriber Number: 8438 **Customer Account Number:** 501335
Date: 05/09/2018

SIGNING FOR TRANSFEREE

I certify that:

1. The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.
2. The Certifier has retained the evidence supporting this Registry Instrument or Document.
3. The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.
4. The Certifier has taken reasonable steps to verify the identity of the transferee.

Party Represented by Subscriber:

NORTH MANILLA PETROLEUM PTY LTD

Signed By: James Hatzopoulos **Signer Capacity:** Practitioner Certifier
PEXA Signer Number: 61077 **Digital Signing Certificate Number:** 34389

Signed for Subscriber: RCR LAWYERS NSW PTY LTD ABN 54164871032

ROSTRON CARLYLE SOLICITORS NSW PTY LTD

Subscriber Capacity: Representative Subscriber
PEXA Subscriber Number: 24232 **Customer Account Number:** 503470
Date: 05/09/2018

Plan Form No. 1 (for Deposited Plan).

B.65792. 2·4·24.

Municipality of
Shire of Culcairn.

PLAN

DP12560

of subdivision of part of the land in C.T.^s Vol: 3450 Fol: 100

PARISH OF HENTY   COUNTY OF HUME

Scale 100 feet to an inch

John H. [illegible]
[illegible]
[illegible]
W. H. [illegible]
} Owners

NOTE:- All new streets and lanes, together with the strip for widening Sladen St. East, to be dedicated to the public.
Where corners have been cut off the length of the connection to the point of intersection is 5ft. unless otherwise stated.
No restrictions exist as to user of the land.
Permanent Marks (shown by "P.M." in plan) are in each case an iron plug set in concrete block according to Regulations.

Datum line of Azimuth A-B.

Approved of by Council at meeting held 10th November 1923
Covered by Council Clerk's Certificate No 27 of 16 November 1923

[illegible] President

[illegible] Shire Clerk

I Oliver Claude Raymond of Dean St., Albury Licensed Surveyor, specially Licensed under the Real Property Act, do hereby solemnly and sincerely declare that the boundaries and measurements shown in this plan are correct for the purposes of the said Act, and that the survey of the land to which the plan relates has been made* by me and I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act, 1900.

O. C. Raymond
Licensed Surveyor.

Subscribed and declared before me at ~~Sydney~~ Albury
this 2nd day of November 1923

John Campbell J.P.

Date of Survey 20th September 1923.

*Add here by me or under my immediate supervision as the case may be.

CONVERSION TABLE ADDED IN
REGISTRAR GENERAL'S DEPARTMENT

DP 12560

FEET	INCHES	METRES
-	7 5/8	0.195
2	-	0.61
2	0 3/4	0.63
3	6	1.065
4	11	1.5
5	-	1.525
5	3 5/8	1.615
5	11 1/4	1.81
6	-	1.83
6	2	1.88
6	2 3/4	1.9
6	4 3/4	1.95
6	7 1/2	2.02
6	10 3/4	2.1
7	0 5/8	2.15
7	1	2.16
7	3 1/4	2.215
7	6	2.285
7	8 1/4	2.345
7	10	2.39
7	10 1/2	2.4
7	11	2.415
8	-	2.44
8	0 1/2	2.45
8	0 5/8	2.455
10	-	3.05
11	6	3.505
12	6	3.81
13	3	4.04
17	0 3/4	5.2
17	2 3/8	5.24
20	-	6.095
20	0 1/4	6.1
20	0 1/2	6.11
20	1 1/2	6.135
20	1 3/4	6.14
20	2 1/4	6.155
20	3 3/4	6.19
20	6 1/4	6.255
20	6 3/4	6.265
20	7 1/4	6.28
21	3	6.475
23	2 1/4	7.065
23	6 1/4	7.17
30	1 3/4	9.19
30	6 1/4	9.305
30	11	9.425
31	7 3/4	9.645
32	8	9.955
33	6	10.21
37	-	11.28
37	1 1/2	11.315
37	7 1/2	11.47
39	8 1/2	12.105
41	-	12.495
42	1 1/2	12.84
42	4 3/4	12.92
43	11 1/4	13.39
45	10 1/2	13.985
46	3	14.095
46	7 1/4	14.205
47	9	14.555
48	3 3/8	14.715
48	3 1/2	14.72
49	-	14.935
49	11	15.215
50	-	15.24
50	7 1/4	15.425
51	-	15.545
51	3	15.62
51	4	15.645
51	7 3/4	15.74
51	9 1/2	15.785
52	-	15.85
52	4 3/4	15.97
52	7 3/4	16.045
53	-	16.155

CONVERSION TABLE ADDED IN
REGISTRAR GENERAL'S DEPARTMENT

DP 12560 CONTINUED

FEET	INCHES	METRES
55	3 1/2	16.245
54	-	16.46
54	0 3/4	16.48
54	3	16.535
54	6	16.61
54	11	16.74
55	-	16.765
55	1 1/8	16.79
55	5 1/4	16.895
55	7 3/4	16.96
56	-	17.07
56	10 1/2	17.335
57	-	17.575
57	4 3/4	17.495
58	-	17.68
58	1 1/2	17.715
58	5	17.805
58	5 1/8	17.81
59	-	17.985
59	3 1/2	18.07
60	-	18.29
60	1 1/8	18.315
60	1 3/4	18.33
60	2 1/2	18.35
60	2 3/4	18.36
60	5 1/4	18.42
61	-	18.595
61	2	18.645
62	-	18.9
62	8	19.1
62	10 3/4	19.17
63	5	19.33
64	-	19.505
64	2	19.56
65	-	19.81
65	2 3/4	19.88
65	9	20.04
66	-	20.115
66	10 1/2	20.385
67	-	20.42
69	-	21.03
69	6 1/2	21.195
70	-	21.335
70	6 1/4	21.495
70	8 3/4	21.56
71	1	21.665
71	5 1/4	21.775
72	-	21.945
72	8 1/2	22.16
74	-	22.555
74	5 1/2	22.695
75	-	22.86
76	-	23.165
76	6	23.315
77	1	23.495
77	8 1/2	23.685
77	11	23.75
78	-	23.775
78	4 3/4	23.895
78	6	23.925
79	-	24.08
79	2 1/2	24.145
79	4 1/4	24.185
80	8	24.585
81	4 1/2	24.805
86	1 1/4	26.245
88	0 1/2	26.835
89	3 1/4	27.21
90	5 1/2	27.57
91	-	27.735
101	8 1/2	31
115	3	35.13
135	-	41.15
138	11	42.34
146	0 3/4	44.52
146	6 1/2	44.665
146	11	44.78

CONVERSION TABLE ADDED IN
REGISTRAR GENERAL'S DEPARTMENT

DP 12560 CONTINUED

FEET	INCHES	METRES
148	4 1/2	45.225
149	7 1/2	45.605
149	11	45.695
150	-	45.72
151	6 1/2	46.19
153	-	46.635
153	2 1/2	46.7
154	11	47.22
155	-	47.245
155	4	47.345
158	1 1/4	48.19
158	2 1/2	48.22
158	11	48.44
159	7	48.64
159	11	48.745
160	-	48.77
160	5	48.895
160	10 1/4	49.03
163	6	49.835
164	6	50.14
165	-	50.29
166	1 1/2	50.63
166	5 1/4	50.73
167	9	51.13
168	3 1/4	51.29
168	9 1/4	51.44
169	7 3/4	51.71
170	-	51.82
170	11 3/4	52.11
171	5	52.25
172	-	52.43
172	10 1/4	52.69
174	0 3/4	53.05
174	1	53.06
174	2 1/2	53.1
175	-	53.34
175	2 1/2	53.4
175	8 1/2	53.56
176	0 3/4	53.66
176	4	53.75
176	8 1/4	53.85
177	5 1/4	54.08
179	5	54.64
179	4	54.66
179	5	54.69
179	7 3/4	54.76
179	10 1/2	54.83
180	-	54.86
180	4	54.97
180	8	55.07
181	1 1/4	55.2
181	2 1/2	55.23
181	11 3/4	55.47
182	5 1/2	55.61
183	1 3/4	55.82
184	11	56.36
185	8	56.59
186	8 3/4	56.92
186	10 1/2	56.96
189	7	57.78
189	7 1/4	57.79
190	5 1/2	58.05
190	7	58.09
191	4 1/2	58.33
192	3	58.6
192	5 1/2	58.61
194	4	59.23
537	1	163.7
537	7	163.86
551	-	167.94
664	-	202.39
779	4 1/4	237.55
892	1	271.91
1160	-	353.57
1160	5	353.7
1165	-	355.09
1179	7 3/4	359.56

CONVERSION TABLE ADDED IN
REGISTRAR GENERAL'S DEPARTMENT

DP 12560 CONTINUED

FEET	INCHES	METRES
1180	-	359.66
1181	2 1/2	360.03
1183	1 3/4	360.62
1186	10 1/2	361.76

AC	RD	P	SQ M
-	-	3.7	93.6
-	-	26	657.6
-	-	26 1/4	663.9
-	-	29 1/4	739.8
-	-	29 3/4	752.5
-	-	30 1/4	765.1
-	-	30 3/4	777.8
-	-	31 1/2	796.7
-	-	32	809.4
-	-	32 1/4	815.7
-	-	32 1/2	822
-	-	32 3/4	828.3
-	-	33	834.7
-	-	33 1/4	841
-	-	33 1/2	847.3
-	-	33 3/4	853.6
-	-	34	860
-	-	34 1/4	866.3
-	-	34 1/2	872.6
-	-	34 3/4	878.9
-	-	35	885.2
-	-	35 1/4	891.6
-	-	35 3/4	904.2
-	-	36	910.5
-	-	36 1/4	916.9
-	-	36 1/2	923.2
-	-	37	935.8
-	-	37 1/4	942.2
-	-	37 1/2	948.5
-	-	37 3/4	954.8
-	-	38	961.1
-	-	38 1/2	973.8
-	-	38 3/4	980.1
-	-	39	986.4
-	-	39 1/4	992.7
-	-	39 1/2	999.1
-	1	-	1012
-	1	1/2	1024
-	1	3/4	1031
-	1	1 1/4	1043
-	1	1 1/2	1050
-	1	2	1062
-	1	2 1/4	1069
-	1	2 1/2	1075
-	1	2 3/4	1081
-	1	3	1088
-	1	3 1/4	1094
-	1	3 1/2	1100
-	1	4	1113
-	1	4 1/4	1119
-	1	4 3/4	1132
-	1	7 1/4	1195
-	1	8	1214

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
16/6/2021 11:50AM

FOLIO: AUTO CONSOL 4272-206

Recorded	Number	Type of Instrument	C.T. Issue
1/7/1993		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 4272-206 PARCELS IN CONSOL ARE: 1-3/12560.	
22/5/1996	2175055	TRANSFER BY MORTGAGEE UNDER POWER OF SALE	EDITION 1
19/2/1997	2848236	CAVEAT	
15/7/1997	3178672	WITHDRAWAL OF CAVEAT	
15/7/1997	3143324	MORTGAGE	EDITION 2
25/3/1998	3876319	CAVEAT	
1/9/1998	5234222	WITHDRAWAL OF CAVEAT	
1/9/1998	5234223	TRANSFER BY MORTGAGEE UNDER POWER OF SALE	
1/9/1998	5234224	MORTGAGE	EDITION 3
27/10/1999	6296165	DISCHARGE OF MORTGAGE	
27/10/1999	6296166	TRANSFER	EDITION 4
23/7/2014	AI755932	MORTGAGE	EDITION 5
4/4/2017	AM280844	DISCHARGE OF MORTGAGE	EDITION 6
5/9/2018	AN686124	TRANSFER	EDITION 7

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: AUTO CONSOL 4272-206

SEARCH DATE	TIME	EDITION NO	DATE
16/6/2021	11:49 AM	7	5/9/2018

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
LOCAL GOVERNMENT AREA GREATER HUME SHIRE
PARISH OF HENTY COUNTY OF HUME
TITLE DIAGRAM DP12560

FIRST SCHEDULE

NORTH MANILLA PETROLEUM PTY LTD (T AN686124)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS

LOTS 1-3 IN DP12560.

*** END OF SEARCH ***

advlegs PRINTED ON 16/6/2021

APPENDIX C

Laboratory Report and Chain of Custody

SGS

CHAIN OF CUSTODY & ANALYSIS REQUEST

Page 1 of 1

SGS Environmental Services
Unit 16, 33 Maddox Street
Alexandria NSW 2015
Telephone No: (02) 85940400
Facsimile No: (02) 85940499
Email: au.samplereceipt.sydney@sgs.com

Company Name: NEO Consulting Pty Ltd
Address: 186 Riverstone Parade, Riverstone, NSW, 2765
Contact Name: Nick Caltabiano, Luke Brevu

Project Name/No: N5529
Purchase Order No:
Results Required By: Next day / 3 days / Standard (Circle One)
Telephone: Nick mobile: 0416 680 375 Luke's mobile: 0455 485 502
Facsimile:
Email Results: [Read Comment section]

Client Sample ID	Date Sampled	Lab Sample ID	WATER	SOIL	PRESERVATIVE	NO OF CONTAINERS	TRH	BTEX	Heavy Metals	Asbestos	OCP/OPP	PAH
BH1		1					FOR					
" 2		2										
" 3		3					ALL					
" 4		4										
" 5		5										
" 6		6										
MW1		7								X	X	

SGS EHS Sydney COC
SE220758

Relinquished By:	Date/Time:	Received By: George Zhi	Date/Time 16/6/21 @ 6pm
Relinquished By:	Date/Time:	Received By:	Date/Time
Samples Intact: (Yes) / No	Temperature: Ambient / (Chilled)	Sample Cooler Sealed: Yes/ No	Laboratory Quotation No:

Comments: Email Reports and Invoices to all emails =>
① nick@neoconsulting.com.au
② luke@neoconsulting.com.au
③ admin@neoconsulting.com.au
④ Oskar@neoconsulting.com.au
5. sarah@neconsult.com.au
⑥ Ehsan.zare1984@gmail.com

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Admin
Client	NEO CONSULTING PTY LTD
Address	PO BOX 279 RIVERSTONE NSW 2765
Telephone	0416 680 375
Facsimile	(Not specified)
Email	admin@neoconsulting.com.au
Project	**N5529**
Order Number	(Not specified)
Samples	7

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE220758 R0**
Date Received	16/6/2021
Date Reported	23/6/2021

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

A portion of the soil sample supplied has been sub-sampled for asbestos according to SGS In-house procedures. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Industries & Environment recommends supplying approximately 50-100g of sample in a separate container.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

SIGNATORIES

Akheeqar BENIAMEEN
Chemist

Dong LIANG
Metals/Inorganics Team Leader

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

VOC's in Soil [AN433] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Benzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o-xylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Benzene	mg/kg	0.1	<0.1
Toluene	mg/kg	0.1	<0.1
Ethylbenzene	mg/kg	0.1	<0.1
m/p-xylene	mg/kg	0.2	<0.2
o-xylene	mg/kg	0.1	<0.1
Total Xylenes	mg/kg	0.3	<0.3
Total BTEX	mg/kg	0.6	<0.6
Naphthalene	mg/kg	0.1	<0.1

Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
TRH C6-C9	mg/kg	20	<20	<20	<20	<20	<20
Benzene (F0)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TRH C6-C10	mg/kg	25	<25	<25	<25	<25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25	<25	<25	<25	<25

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
TRH C6-C9	mg/kg	20	<20
Benzene (F0)	mg/kg	0.1	<0.1
TRH C6-C10	mg/kg	25	<25
TRH C6-C10 minus BTEX (F1)	mg/kg	25	<25

TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
TRH C10-C14	mg/kg	20	<20	<20	<20	<20	<20
TRH C15-C28	mg/kg	45	<45	<45	<45	<45	<45
TRH C29-C36	mg/kg	45	<45	<45	<45	<45	<45
TRH C37-C40	mg/kg	100	<100	<100	<100	<100	<100
TRH >C10-C16	mg/kg	25	<25	<25	<25	<25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25	<25	<25	<25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90	<90	<90	<90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120	<120	<120	<120	<120
TRH C10-C36 Total	mg/kg	110	<110	<110	<110	<110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210	<210	<210	<210	<210

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
TRH C10-C14	mg/kg	20	<20
TRH C15-C28	mg/kg	45	<45
TRH C29-C36	mg/kg	45	<45
TRH C37-C40	mg/kg	100	<100
TRH >C10-C16	mg/kg	25	<25
TRH >C10-C16 - Naphthalene (F2)	mg/kg	25	<25
TRH >C16-C34 (F3)	mg/kg	90	<90
TRH >C34-C40 (F4)	mg/kg	120	<120
TRH C10-C36 Total	mg/kg	110	<110
TRH >C10-C40 Total (F bands)	mg/kg	210	<210

PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Naphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8	<0.8	<0.8	<0.8	<0.8

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Naphthalene	mg/kg	0.1	<0.1
2-methylnaphthalene	mg/kg	0.1	<0.1
1-methylnaphthalene	mg/kg	0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.1	<0.1
Phenanthrene	mg/kg	0.1	<0.1
Anthracene	mg/kg	0.1	<0.1
Fluoranthene	mg/kg	0.1	<0.1
Pyrene	mg/kg	0.1	<0.1
Benzo(a)anthracene	mg/kg	0.1	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo(b&j)fluoranthene	mg/kg	0.1	<0.1
Benzo(k)fluoranthene	mg/kg	0.1	<0.1
Benzo(a)pyrene	mg/kg	0.1	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	<0.1
Dibenzo(ah)anthracene	mg/kg	0.1	<0.1
Benzo(ghi)perylene	mg/kg	0.1	<0.1
Carcinogenic PAHs, BaP TEQ <LOR=0	TEQ (mg/kg)	0.2	<0.2
Carcinogenic PAHs, BaP TEQ <LOR=LOR	TEQ (mg/kg)	0.3	<0.3
Carcinogenic PAHs, BaP TEQ <LOR=LOR/2	TEQ (mg/kg)	0.2	<0.2
Total PAH (18)	mg/kg	0.8	<0.8
Total PAH (NEPM/WHO 16)	mg/kg	0.8	<0.8

OC Pesticides in Soil [AN420] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Lindane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Isodrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Mirex	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1	<1	<1	<1	<1

OC Pesticides in Soil [AN420] Tested: 21/6/2021 (continued)

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Hexachlorobenzene (HCB)	mg/kg	0.1	<0.1
Alpha BHC	mg/kg	0.1	<0.1
Lindane	mg/kg	0.1	<0.1
Heptachlor	mg/kg	0.1	<0.1
Aldrin	mg/kg	0.1	<0.1
Beta BHC	mg/kg	0.1	<0.1
Delta BHC	mg/kg	0.1	<0.1
Heptachlor epoxide	mg/kg	0.1	<0.1
o,p'-DDE	mg/kg	0.1	<0.1
Alpha Endosulfan	mg/kg	0.2	<0.2
Gamma Chlordane	mg/kg	0.1	<0.1
Alpha Chlordane	mg/kg	0.1	<0.1
trans-Nonachlor	mg/kg	0.1	<0.1
p,p'-DDE	mg/kg	0.1	<0.1
Dieldrin	mg/kg	0.2	<0.2
Endrin	mg/kg	0.2	<0.2
o,p'-DDD	mg/kg	0.1	<0.1
o,p'-DDT	mg/kg	0.1	<0.1
Beta Endosulfan	mg/kg	0.2	<0.2
p,p'-DDD	mg/kg	0.1	<0.1
p,p'-DDT	mg/kg	0.1	<0.1
Endosulfan sulphate	mg/kg	0.1	<0.1
Endrin Aldehyde	mg/kg	0.1	<0.1
Methoxychlor	mg/kg	0.1	<0.1
Endrin Ketone	mg/kg	0.1	<0.1
Isodrin	mg/kg	0.1	<0.1
Mirex	mg/kg	0.1	<0.1
Total CLP OC Pesticides	mg/kg	1	<1

OP Pesticides in Soil [AN420] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Dichlorvos	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7	<1.7	<1.7	<1.7	<1.7

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Dichlorvos	mg/kg	0.5	<0.5
Dimethoate	mg/kg	0.5	<0.5
Diazinon (Dimpylate)	mg/kg	0.5	<0.5
Fenitrothion	mg/kg	0.2	<0.2
Malathion	mg/kg	0.2	<0.2
Chlorpyrifos (Chlorpyrifos Ethyl)	mg/kg	0.2	<0.2
Parathion-ethyl (Parathion)	mg/kg	0.2	<0.2
Bromophos Ethyl	mg/kg	0.2	<0.2
Methidathion	mg/kg	0.5	<0.5
Ethion	mg/kg	0.2	<0.2
Azinphos-methyl (Guthion)	mg/kg	0.2	<0.2
Total OP Pesticides*	mg/kg	1.7	<1.7

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Arsenic, As	mg/kg	1	1	<1	8	<1	2
Cadmium, Cd	mg/kg	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium, Cr	mg/kg	0.5	8.0	7.7	12	7.2	11
Copper, Cu	mg/kg	0.5	5.1	6.0	6.5	5.5	21
Lead, Pb	mg/kg	1	6	13	220	7	74
Nickel, Ni	mg/kg	0.5	5.5	4.3	1.9	3.6	2.5
Zinc, Zn	mg/kg	2	4.0	5.2	34	2.6	37

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Arsenic, As	mg/kg	1	1
Cadmium, Cd	mg/kg	0.3	<0.3
Chromium, Cr	mg/kg	0.5	9.2
Copper, Cu	mg/kg	0.5	9.1
Lead, Pb	mg/kg	1	19
Nickel, Ni	mg/kg	0.5	8.8
Zinc, Zn	mg/kg	2	11

Mercury in Soil [AN312] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Mercury	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Mercury	mg/kg	0.05	<0.05

Moisture Content [AN002] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
% Moisture	%w/w	1	**19.3**	**15.3**	**17.2**	**11.9**	**10.1**

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
% Moisture	%w/w	1	**14.3**

Fibre Identification in soil [AN602] Tested: 21/6/2021

PARAMETER	UOM	LOR	BH1 SOIL - 15/6/2021 SE220758.001	BH2 SOIL - 15/6/2021 SE220758.002	BH3 SOIL - 15/6/2021 SE220758.003	BH4 SOIL - 15/6/2021 SE220758.004	BH5 SOIL - 15/6/2021 SE220758.005
Asbestos Detected	No unit	-	No	No	No	No	No
Estimated Fibres*	%w/w	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

PARAMETER	UOM	LOR	BH6 SOIL - 15/6/2021 SE220758.006
Asbestos Detected	No unit	-	No
Estimated Fibres*	%w/w	0.01	<0.01

VOCs in Water [AN433] Tested: 18/6/2021

PARAMETER	UOM	LOR	MW1 WATER - 15/6/2021 SE220758.007
Benzene	µg/L	0.5	<0.5
Toluene	µg/L	0.5	<0.5
Ethylbenzene	µg/L	0.5	<0.5
m/p-xylene	µg/L	1	<1
o-xylene	µg/L	0.5	<0.5
Total Xylenes	µg/L	1.5	<1.5
Total BTEX	µg/L	3	<3
Naphthalene	µg/L	0.5	<0.5

Volatile Petroleum Hydrocarbons in Water [AN433] Tested: 18/6/2021

PARAMETER	UOM	LOR	MW1 WATER - 15/6/2021 SE220758.007
TRH C6-C9	µg/L	40	<40
Benzene (F0)	µg/L	0.5	<0.5
TRH C6-C10	µg/L	50	<50
TRH C6-C10 minus BTEX (F1)	µg/L	50	<50

TRH (Total Recoverable Hydrocarbons) in Water [AN403] Tested: 18/6/2021

PARAMETER	UOM	LOR	MW1 WATER - 15/6/2021 SE220758.007
TRH C10-C14	µg/L	50	<50
TRH C15-C28	µg/L	200	<200
TRH C29-C36	µg/L	200	<200
TRH C37-C40	µg/L	200	<200
TRH >C10-C16	µg/L	60	<60
TRH >C10-C16 - Naphthalene (F2)	µg/L	60	<60
TRH >C16-C34 (F3)	µg/L	500	<500
TRH >C34-C40 (F4)	µg/L	500	<500
TRH C10-C40	µg/L	320	<320

PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 18/6/2021

PARAMETER	UOM	LOR	MW1 WATER - 15/6/2021 SE220758.007
Naphthalene	µg/L	0.1	<0.1
2-methylnaphthalene	µg/L	0.1	<0.1
1-methylnaphthalene	µg/L	0.1	<0.1
Acenaphthylene	µg/L	0.1	<0.1
Acenaphthene	µg/L	0.1	<0.1
Fluorene	µg/L	0.1	<0.1
Phenanthrene	µg/L	0.1	<0.1
Anthracene	µg/L	0.1	<0.1
Fluoranthene	µg/L	0.1	<0.1
Pyrene	µg/L	0.1	<0.1
Benzo(a)anthracene	µg/L	0.1	<0.1
Chrysene	µg/L	0.1	<0.1
Benzo(b&j)fluoranthene	µg/L	0.1	<0.1
Benzo(k)fluoranthene	µg/L	0.1	<0.1
Benzo(a)pyrene	µg/L	0.1	<0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.1	<0.1
Dibenzo(ah)anthracene	µg/L	0.1	<0.1
Benzo(ghi)perylene	µg/L	0.1	<0.1
Total PAH (18)	µg/L	1	<1

Trace Metals (Dissolved) in Water by ICPMS [AN318] Tested: 18/6/2021

PARAMETER	UOM	LOR	MW1 WATER - 15/6/2021 SE220758.007
Arsenic, As	µg/L	1	<1
Cadmium, Cd	µg/L	0.1	<0.1
Chromium, Cr	µg/L	1	<1
Copper, Cu	µg/L	1	<1
Lead, Pb	µg/L	1	<1
Nickel, Ni	µg/L	1	**1**
Zinc, Zn	µg/L	5	**6**

Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 17/6/2021

PARAMETER	UOM	LOR	MW1 WATER - 15/6/2021 SE220758.007
Mercury	mg/L	0.0001	<0.0001

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN020	Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B.
AN040/AN320	A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.
AN040	A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.
AN311(Perth)/AN312	Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.
AN312	Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid , mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser . Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500
AN318	Determination of elements at trace level in waters by ICP-MS technique,, referenced to USEPA 6020B and USEPA 200.8 (5.4).
AN403	Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.
AN403	Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents .
AN403	The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.
AN420	(SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS /ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN433	VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection/reporting limit (RL) of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

AN602	The sample can be reported “no asbestos found at the reporting limit (RL) of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- (a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres): (b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and (c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.