

5 February 2020

Jackson Environment and Planning Pty Ltd Suite 102, Level 1, 25 Berry Street

NORTH SYDNEY NSW 2060

ATTENTION: MARK JACKSON

RE: SAND, SOIL & BUILDING MATERIALS RECYCLING FACILITY 90 GINDURRA ROAD, SOMERSBY CAPITAL INVESTMENT VALUE ESTIMATE

As per your request dated 23 January 2020, Muller Partnership has prepared a Capital Investment Value (CIV) Estimate as required by the planning authority for the above development totalling \$ 14,866,000 (excl. GST) and enclose our report.

The purpose of this assessment is to determine the current construction cost value of the development for council purposes only and is not to be used for project budgeting, finance, insurance, sale, mortgage or any other purposes.

Should you wish to discuss any of the above please do not hesitate to contact the undersigned.

Yours faithfully

MULLER PARTNERSHIP

PETER DALLY
DIRECTOR

PD: NW 18230 90 Gindurra Rd, Somersby - CIV Estimate



MULLER partnership

Newcastle | Sydney | Melbourne



Disclaimer

Muller Partnership have prepared this report in part on the basis of information supplied to it in the ordinary course of business by Jackson Environment and Planning Pty Ltd.

Whilst all reasonable professional care and skill have been exercised to validate its accuracy and authenticity, Muller Partnership is unable to provide any Guarantee in that regard, and will not be liable to any party for any loss arising as a result of any such information subsequently being found to be inaccurate, lacking authenticity or having been withheld.

This report is only intended for use by the Jackson Environment and Planning Pty Ltd and Muller Partnership accepts no responsibility to other parties who use opinions or information contained herein. They do so at their own risk.

In acting as Quantity Surveyor for Jackson Environment and Planning Pty Ltd, Muller Partnership's liability is limited to the scope of services and value limit, as defined in their Professional indemnity insurance cover. A copy is available on request.

This report covers only the items as contained in this report. Should Jackson Environment and Planning Pty Ltd require additional items or areas of assessment, these should be specifically requested and will be actioned as agreed between the parties.

The construction costs are current as at the date of this assessment only. The values assessed herein may change significantly and unexpectedly over a relatively short period (including as a result of general market movements or factors specific to the particular property). We do not accept liability for losses arising from such subsequent changes in values.

Document history & status

Revision	Date	Description	Ву	Review	Approved
0	05/02/2020	Capital Investment Value Estimate	YF	NW	PD



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Capital	Investment Value	Capital Investment Value of a development or project includes all costs necessary to establish and operate the project, including the design and construction of buildings, structures, associated infrastructure and fixed or mobile plant and equipment, other than the following costs:		
		(a) amounts payable, or the cost of land dedicated or any other benefit provided, under a condition imposed under Division 6 or 6A of Part 4 of the Environmental Planning and Assessment Act or a planning agreement under that Division		
		(b) costs relating to any part of the development or project that is the subject of a separate development consent or project approval		
		(c) land costs (including any costs of marketing and selling land)		
		(d) GST (as defined by A New Tax System (Goods and Services Tax) Act 1999		
Constru	iction Contingency	The Construction Contingency is a contingency allowance made for unknowns that may occur during construction due to latent conditions or issues with the documentation.		
Design Allowar	Development ace	The Design Development Allowance is a contingency included within our estimate to allow for unknown costs associated with progressing the development from the initial concept through until the 'For Construction'. At the time of For Construction documentation this contingency should be 0% as the entire project will have been designed and costed accordingly.		
Prelimii	naries & Margin	The Preliminaries and Margin Allowance is an allowance for the builders' margin and their establishment and management of the site. This item will therefore include for items such as site fencing & amenities, site foreman, head office overheads, insurances, cranage, site cleaning, OH&S management, QA, etc.		



1.0 **EXECUTIVE SUMMARY**

Project Description

The project involves the construction of the proposed Sand, Soil and Building Materials Recycling Facility and associated infrastructure located at 90 Gindurra Road, Somersby, NSW.

The update of the CIV estimate for Sand, Soil & Building Recycling Facility involves:

- Smaller noise wall along the NE corner of the site then transitioning to the eastern boundary.
- Construction of a larger water quality pond including floating wetland, level rock spreader, gross pollutant traps and a package recycled water plant.
- Construction of a Crusher Building.
- Construction of a Mulcher Building and concrete storage bays.
- Construction of Tip and Spread Building, rainwater harvesting tanks and misting system.
- Installation of dust and fire suppression systems across the site including the Secondary Sorting Warehouse.
- Installation of sprinkler system for dust suppression above landscape storage bays.
- Installation of a second weighbridge, weighbridge office, traffic control lights and boom gates on site.

Cost Overview

We confirm the estimated CIV for Sand, Soil & Building Recycling Facility, Somersby is \$ 14,866,000 (excl. GST).



Key Notes & Actions:

- Please note that this estimate has been prepared for the purpose of authority review and is preliminary in nature. Muller Partnership can provide development budgeting, scenario estimating, cost planning, or similar services on request.
- We have assumed Stage 1 works (Demolition and Secondary processing building) are complete and excluded from the estimate.
- We have used the Engineers quantities for bulk exaction etc.
- Import fill is assumed to be sourced free of charge.
- Review assumptions and exclusions.



CAPITIAL INVESTMENT VALUE SUMMARY 2.0

CAPITAL INVESTMENT VALUE SUMMA	RY
Item	Total Cost (\$)
Demolition & Site Preparation	1,861,000
Construction Works	
Crusher Operation Building	184,000
Mulcher Operation Building	134,000
Tip and Spread Building	830,000
Secondary Processing Building	EXCL
Admin Office and Amenities	EXCL
External Works and Service	7,203,000
Works Outside Boundary	59,000
Mobile Plant and Equipment	3,622,000
Design Development Allowance	EXCL
Preliminaries, Overheads and Profit (7%)	973,000
Total Construction Cost (Excl GST)	14,866,000
Construction Contingency	EXCL
Professional Fees	EXCL
Consultant Fees	EXCL
Authority Fees and Contributions	EXCL
Escalation	EXCL
Total Project Cost (Excl GST)	14,866,000

NB. Above costs are rounded to nearest thousand.



3.0 AREA SUMMARY

Summary of areas is as follows:

Sand, Soil & Building Materials Recycling Facility	Area (m²)
Site	60,568
Tip and Spread Building	1,277
Mulcher Operation Building	96
Crusher Operation Building	147
Waste Storage Area	4,962
Admin Office and Amenities	104
Secondary Processing Building	2,378

^{*}Areas (m²) are measured as per the definitions stated in the AIQS Book of Areas.



METHODOLOGY 4.0

Muller Partnership has used the following information in compiling our CIV Estimate:

All rates used within our Capital Investment Estimate have been gathered from our in-house databases as well as being constructed from first principles namely labour, materials and waste to reflect current market and project specific value.

Muller Partnership has used the following plans prepared by Sustainability Workshop, dated 16 December 2019, and received on 31 January 2020:

- Sheet 106 [Rev 2] General Arrangement Plan
- Sheet 107 [Rev 2] Civil Works Plan
- Sheet 108 [Rev 2] Retaining Wall Long Sections Sheet 1 of 2
- Sheet 109 [Rev 2] Retaining Wall Long Sections Sheet 2 of 2
- Sheet 110 [Rev 2] Bulk Earthwork Plan
- Sheet 111 [Rev 2] Turning Movement Plan
- Sheet 113 [Rev 2] Detailed Secondary Processing Building Plan
- Sheet 115 [Rev 2] Stormwater Plan
- Sheet 116 [Rev 2] Stormwater Sections & Details

Crusher and Mulcher Operation Building Plan by Raybal Constructions, received 31 January 2020 and named as follows:

- SSD-A-01-011 [Rev 3] Building Plans and Elevations
- SSD-A-01-012 [Rev 6] Tip and Spread Bay Plan and Section
- SSD-A-01-012 [Rev 6] Tip and Spread Bay Elevations



5.0 **ASSUMPTIONS**

We have made the following assumptions in the preparation of our CIV Estimate:

- 1. The works will be competitively tendered to a number of suitable qualified contractors on a lump sum basis.
- 2. Works will be completed during normal working hours.
- 3. Works are included for Stage 2 only (Stage 1 to include all demolition works and construction of warehouse).
- 4. Assumed builder will have clear access to the work area.
- 5. Assumed existing service connections are sufficient (NB: Unless noted otherwise in our foregoing estimate).
- 6. Assumed no hazardous material to be removed from site.
- 7. All hazardous materials and excess spoil is to be stockpiled and remain on site.
- 8. All volumes have been taken from Sustainability Workshop's provided bulk quantities as per the provided Civil Drawings (Refer to Schedule of Information for Details).
- 9. Sustainability Workshop Bulk Earthwork Quantities are assumed to be for Stage 2 only and exclude earthworks to the Stage 1 Structures.
- 10. Quantity of trees (25 No.) to be removed is a provisional quantity.
- 11. Heavy vehicle pavement and asphalt pavement profiles has been assumed.
- 12. Waste receive area concrete slab profile has been assumed.
- 13. An allowance for site signage has been assumed to be required.
- 14. All electrical services have been assumed include extent of lighting and connection requirements.
- 15. Retaining wall details have been assumed based on previous project data and should be updated once further information becomes available.
- 16. Fencing has been assumed to be included in Stage 1 works as per the Waste Management Report prepared by Jackson Environment and Planning Pty Ltd.
- 17. Supply of equipment has been adopted as per Jackson Environment & Planning advice.



- 18. Project duration for road work has been assumed to be 1 week and include afterhours work.
- 19. Preliminaries, Overheads and Profit allowance of 7% has been included.
- 20. We have made allowances for the following Provisional Sums:
 - Weighbridge \$200,000
 - Signage \$10,000
 - Floating wetlands -\$33,795
 - Traffic Light (2 Sets) \$25,000
 - Dust suppression system \$228,765.

EXCLUSIONS 6.0

Within the following CIV the acronym 'EXCL' means work that has not been included in our estimate. We specifically note the following exclusions from the estimated cost:

- 1. Contamination & remediation.
- 2. Services diversions.
- 3. Excavation in rock.
- 4. Ground water.
- 5. Dewatering.
- Disposal of excavated material as VENM at local waste facility.
- 7. Demolition of existing sheds/buildings on site.
- Site security fencing including sliding entry gate and 6m wide double gate.
- 9. Secondary Processing Building and Admin Office and Amenities.
- 10. Outbound weighbridge once facility reaches 100KTPA.
- 11. Waste skip bins / receptables.
- 12. Retroreflective markers.
- 13. Greywater reuse system.
- 14. OSD tank approved under Stage 1.
- 15. Sewer pump station.
- 16. External gas supply.



- 17. Maintenance to landscaping.
- 18. CCTV.
- 19. Substation.
- 20. Amplification of existing services.
- 21. Escalation & changes in market conditions.
- 22. Client Side Project Management.
- 23. Finance costs.
- 24. Works outside normal hours.
- 25. Aboriginal and Heritage impacts.
- 26. Delays resulting from approvals such as Environmental/ Authorities.

- 27. Construction contingency.
- 28. Design contingency.
- 29. Professional Fees.
- 30. Authority Fees.
- 31. GST.







		Quantity	Unit	Rate	Total
1	DEMOLITION & SITE PREPARATION				\$1,860,676.00
2	CRUSHER OPERATION BUILDING				\$183,750.00
3	MULCHER OPERATION BUILDING				\$134,400.00
4	TIP AND SPREAD BUILDING				\$830,050.00
5	SECONDARY PROCESSING BUILDING				
6	ADMIN OFFICE AND AMENITIES				
7	EXTERNAL WORKS AND SERVICES				\$7,203,453.11
8	WORKS OUTSIDE BOUNDARY				\$59,005.00
9	MOBILE PLANT/ EQUIPMENT				\$3,622,000.00
10	DESIGN DEVEOPMENT ALLOWANCE				
11	PRELIMINARIES & MARGIN				\$972,533.39
12	CONSTRUCTION CONTINGENCY				
13	IDENTIFIED RISK ITEMS				
14	PROFESSIONAL FEES				
15	CONSULTANT FEES				
16	AUTHORITY FEES AND CONTRIBUTIONS	}			
17	ESCALATION				
				Subtotal	\$14,865,867.50
			_	Adjustment	\$0.00
				Total	\$14,865,867.50



		Quantity	Unit	Rate	Total
1	DEMOLITION & SITE PREPARATION				\$1,860,676.00
1.1	DEMOLITION & ALTERATIONS				
1.1.1	Allowance for demolition to recycling facility [NB: Assumed all required demolition has been completed in Stage 1]	1	item		EXCL
1.2	SITE PREPARATION				\$1,860,676.00
1.2.1	Site Clearing				\$49,176.00
1.2.1.1	Allowance to strip vegetative material and stockpile the material on site	60,568	m2	\$0.75	\$45,426.00
1.2.1.2	Allowance for removal of trees to site area [NB: Provisional Quantity and assumed 500/1000mm girth]	25	No	\$150.00	\$3,750.00
1.2.2	Earthworks				\$1,811,500.00
1.2.2.1	Allowance for bulk cut to fill [NB: Quantities & methodology adopted as per Drawing BEP110]	35,900	m3	\$10.00	\$359,000.00
1.2.2.2	Allowance for fill using site material from existing stockpiles [NB: Ditto]	20,000	m3	\$8.50	\$170,000.00
1.2.2.3	Allowance for imported fill (assumed sourced FOC off site within 20kms)	51,300	m3	\$25.00	\$1,282,500.00
2	CRUSHER OPERATION BUILDING				\$183,750.00
2.1	Crusher operation building (excl. equipment)	147	m2	\$1,250.00	\$183,750.00
3	MULCHER OPERATION BUILDING				\$134,400.00
3.1	Mulcher operation building (excl. equipment)	96	m2	\$1,400.00	\$134,400.00
4	TIP AND SPREAD BUILDING				\$830,050.00
4.1	Tip and spread building	1,277	m2	\$650.00	\$830,050.00
5	SECONDARY PROCESSING BUILDING				
5.1	Secondary processing building - Assumed part of Stage 1	2,378	m2		EXCL
6	ADMIN OFFICE AND AMENITIES				
6.1	Admin office and amenities - Assumed part of Stage 1	104	m2		EXCL
7	EXTERNAL WORKS AND SERVICES				\$7,203,453.11
7.1	EXTERNAL WORKS				\$6,062,059.11
7.1.1	Roads, footpaths and paving				\$3,673,639.11
7.1.1.1	200mm thick reinforced concrete [40Mpa] slab on ground comprising SL82 T&B mesh, laid on 50mm sand blinding complete [Assumed no details provided]	6,535	m2	\$110.00	\$718,850.00
7.1.1.2	450mm NOM. recycled crushed concrete pavement and primer seal	30,726	m2	\$50.00	\$1,536,300.00



2.1.1.3 Series over for 150mm drainage layer assumed blue metal with geotextile Asphalt parement comprising 200mm thick DGE20 subbase, 200mm thick DGE		1	Quantity	Unit	Rate	Total
7.1.1.4 200mm thick DGS20 subbase, 200mm thick DGS20 base course, 7mm primer seal and 40mm thick AC layer (fassumed no details provided) 7.1.1.5 Kerbs, gutters and edge strips 7.1.1.5 (Concrete kerb and gutter 327 m \$65.00 \$21,255.00 \$7.1.2 Retaining Walls \$948,877.00 \$21,255.00 \$7.1.2 Retaining Walls \$948,877.00 \$21,255.00 \$7.1.2 In Foundations for retaining wall 01 & 0.30 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	7.1.1.3	layer assumed blue metal with		m2	\$19.00	\$583,787.11
7.1.2.1 Concrete kerb and gutter 327 m \$65.00 \$21,255.00 7.1.2 Retaining Walls \$948,877.00 7.1.2.1 Foundations for retaining wall 01 & 0.2	7.1.1.4	Asphalt pavement comprising 200mm thick DGB20 subbase, 200mm thick DGS20 base course, 7mm primer seal and 40mm thick AC layer [Assumed no details	11,457	m2	\$71.00	\$813,447.00
7.1.2 Retaining Walls \$948,877.00 7.1.2.1 Foundations for retaining wall 01 & 0.2 1,031 m \$282.00 \$290,742.00 7.1.2.2 retaining wall (Type 01 - Avg. height 4.5m) 190 thick core filled concrete block retaining wall (Type 01 - Avg. height 4.5m) 190 thick core filled concrete block retaining wall (Type 02 - Avg. height 2.0m) 2,10m] 190 thick core filled concrete block retaining wall (Type 02 - Avg. height 2.0m] 1,085 m2 \$180.00 \$195,300.00 2.0m] 190 thick core filled concrete block retaining wall (Type 02 - Avg. height 2.0m] 1,031 m \$65.00 \$195,300.00 7.1.2.4 Allow for ag line drain to back of retaining walls 372 m \$282.00 \$104,904.00 7.1.31 Foundations for concrete block wall for noise attenuation inside site 1,115 m2 \$180.00 \$200,700.00 \$200,7	7.1.1.5	Kerbs, gutters and edge strips				\$21,255.00
7.1.2.1 Foundations for retaining wall 01 & 02 1.031 m \$282.00 \$290,742.00 7.1.2.2 190 thick core filled concrete block retaining wall [Type 01 - Avg. height 4.5m] 190 thick core filled concrete block retaining wall [Type 02 - Avg. height 4.5m] 190 thick core filled concrete block retaining wall [Type 02 - Avg. height 2.0m] 1.085 m2 \$180.00 \$195,300.00 7.1.2.4 Allow for ag line drain to back of retaining walls 1,085 m2 \$180.00 \$195,300.00 7.1.2.4 Allow for ag line drain to back of retaining walls 1,031 m \$65.00 \$67,015.00 7.1.3 Noise Walls 372 m \$282.00 \$104,904.00 7.1.3.1 Foundations for concrete block wall 372 m \$282.00 \$104,904.00 7.1.3.2 3000mm high concrete block wall 7,115 m2 \$180.00 \$200,700.00 7.1.3.3 Allowance for 5000mm high 150 150 150 150 7.1.3.4 Fencing and Gates 2,170 m2 \$290.00 \$629,300.00 7.1.4 Fencing and Gates \$30,758.99 7.1.4.1 2000mm high security fence along boundary, open type picket fence 1,078 m EXCL 7.1.4.2 Allowance for swimming pool 94.727 m \$150.00 \$14,208.99 7.1.4.3 Silding entry gate [Assumed to be included in Stage 1] 1 No EXCL 7.1.4.4 Extra over for 6000mm wide double gate for maintenance access 1 Pr EXCL 7.1.4.5 Silding entry gate [Assumed to be included in Stage 1] 10000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge 1 Item \$200,000.00 \$200,000.00 7.1.5.2 Item S200,000.00 \$200,000.00 7.1.5.5 Item S200,000.00 \$200,000.00 7.1.5.7 Item S200,000.00	7.1.1.5.1	Concrete kerb and gutter	327	m	\$65.00	\$21,255.00
7.1.2.1 02 1.90 thick core filled concrete block retaining wall [Type 01 - Avg. height 4.5m] 190 thick core filled concrete block retaining wall [Type 02 - Avg. height 4.5m] 190 thick core filled concrete block retaining wall [Type 02 - Avg. height 2.0m] 1.085 m2 \$180.00 \$195,300.00 2.0m] 7.1.2.4 Allow for ag line drain to back of retaining walls	7.1.2	Retaining Walls				\$948,877.00
Table Transmission Transmissio	7.1.2.1		1,031	m	\$282.00	\$290,742.00
Tetalning wall Type 02 - Avg. height 1,085 m2 \$180.00 \$195,300.00 2.0m	7.1.2.2	retaining wall [Type 01 - Avg. height	2,199	m2	\$180.00	\$395,820.00
7.1.2.4 retaining walls	7.1.2.3	retaining wall [Type 02 - Avg. height	1,085	m2	\$180.00	\$195,300.00
7.1.3.1 Foundations for concrete block wall 372 m \$282.00 \$104,904.00 7.1.3.2 3000mm high concrete block wall for noise attenuation inside site 1,115 m2 \$180.00 \$200,700.00 7.1.3.3 Historic preast concrete panel wall fixed to top of blockwork retaining wall 2,170 m2 \$290.00 \$629,300.00 wall fixed to top of blockwork retaining wall 2,170 m2 \$290.00 \$629,300.00 wall 5000 fixed to top of blockwork retaining wall 2,170 m2 \$290.00 \$629,300.00 wall 5000 fixed to top of blockwork retaining wall 2,170 m2 \$290.00 \$629,300.00 wall 5000 fixed to top of blockwork retaining wall 2,170 m2 \$290.00 \$629,300.00 wall 5000 fixed to top of blockwork retaining wall 5000 fixed to top of blockwork retaining wall 5000 fixed to top of blockwork retaining wall 5000 m2 \$30,758.99 m2 \$30,758.99 m2 \$30,758.99 m3 \$10.00 fixed to be included in Stage 1] 7.14.1 blockwork fence along boundary, open type picket fence [Assumed to be included in Stage 1] 7.14.2 Allowance for swimming pool compliant fencing around OSD pong 94.727 m \$150.00 \$14,208.99 m2 \$1.4.3 slide and stage 1] 7.14.3 Sliding entry gate [Assumed to be included in Stage 1] 8.1 No 8.1 Extra over for 6000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 m3 \$2,55	7.1.2.4		1,031	m	\$65.00	\$67,015.00
7.1.3.2 3000mm high concrete block wall for noise attenuation inside site 1,115 m2 \$180.00 \$200,700.00	7.1.3	Noise Walls				\$934,904.00
For noise attenuation inside site	7.1.3.1	Foundations for concrete block wall	372	m	\$282.00	\$104,904.00
7.1.3.3 thick precast concrete panel wall fixed to top of blockwork retaining wall 2,170 m2 \$290.00 \$629,300.00 7.1.4 Fencing and Gates \$30,758.99 7.1.4.1 2000mm high security fence along boundary, open type picket fence [Assumed to be included in Stage 1] 1,078 m EXCL 7.1.4.2 Allowance for swimming pool compliant fencing around OSD pong compliant fencing around OSD pong of included in Stage 1] 94.727 m \$150.00 \$14,208.99 7.1.4.3 Sliding entry gate [Assumed to be included in Stage 1] 1 No EXCL 7.1.4.4 gate for maintenance access [Assumed to be included in Stage 1] 1 Pr EXCL 7.1.4.5 10000mm wide double gate for maintenance access [Assumed to be included in Stage 1] 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 \$264,800.00 7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge 1 Item	7.1.3.2		1,115	m2	\$180.00	\$200,700.00
7.1.4.1 2000mm high security fence along boundary, open type picket fence [Assumed to be included in Stage 1] 7.1.4.2 Allowance for swimming pool compliant fencing around OSD pong 94.727 m \$150.00 \$14,208.99 7.1.4.3 Sliding entry gate [Assumed to be included in Stage 1] 7.1.4.4 Sliding entry gate [Assumed to be included in Stage 1] 7.1.4.5 Extra over for 6000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.5 10000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge \$200,000.00 7.1.5.3 Item \$200,000.00 \$200,000.00 7.1.5.4 Proposed weighbridge 1 Item \$200,000.00 \$200,000.00 7.1.5.5.2 Installed once facility reaches 1 Item EXCL	7.1.3.3	thick precast concrete panel wall fixed to top of blockwork retaining	2,170	m2	\$290.00	\$629,300.00
7.1.4.1 boundary, open type picket fence [Assumed to be included in Stage 1] 1,078 m EXCL 7.1.4.2 Allowance for swimming pool compliant fencing around OSD pong 94.727 m \$150.00 \$14,208.99 7.1.4.3 Slidding entry gate [Assumed to be included in Stage 1] 1 No EXCL Extra over for 6000mm wide double gate for maintenance access [Assumed to be included in Stage 1] 1 Pr EXCL 7.1.4.5 10000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge 1 Item \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 7.1.5.2.2 Outbound weighbridge to be installed once facility reaches 1 Item EXCL	7.1.4	Fencing and Gates				\$30,758.99
7.1.4.2 compliant fencing around OSD pong 7.1.4.3 Sliding entry gate [Assumed to be included in Stage 1] Extra over for 6000mm wide double gate for maintenance access [Assumed to be included in Stage 1] 7.1.4.4 gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.5 10000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge 1 Item \$200,000.00 \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 \$200,000.00 7.1.5.2.2 installed once facility reaches 1 Item EXCL	7.1.4.1	boundary, open type picket fence	1,078	m		EXCL
7.1.4.3 Sliding entry gate [Assumed to be included in Stage 1] 1 No EXCL 7.1.4.4 Extra over for 6000mm wide double gate for maintenance access [Assumed to be included in Stage 1] 1 Pr EXCL 7.1.4.5 10000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge 1 Item \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 7.1.5.2.2 Outbound weighbridge to be installed once facility reaches 1 1 Item EXCL	7.1.4.2		94.727	m	\$150.00	\$14,208.99
7.1.4.4 gate for maintenance access [Assumed to be included in Stage 1] 1 Pr EXCL 7.1.4.5 10000mm wide double gate for maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge 1 Item \$200,000.00 7.1.5.2.1 Proposed weighbridge to be installed once facility reaches installed once facility reaches 1 Item EXCL	7.1.4.3	Sliding entry gate [Assumed to be	1	No		EXCL
7.1.4.5 maintenance access 1 Pr \$2,550.00 \$2,550.00 7.1.4.6 Boom gate 4 No \$3,500.00 \$14,000.00 7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 \$200,000.00 7.1.5.2.2 installed once facility reaches 1 Item EXCL	7.1.4.4	gate for maintenance access	1	Pr		EXCL
7.1.5 External Structures \$264,800.00 7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge \$200,000.00 \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 7.1.5.2.2 Outbound weighbridge to be installed once facility reaches 100KTPA 1 Item EXCL	7.1.4.5		1	Pr	\$2,550.00	\$2,550.00
7.1.5.1 Demountable building weighbridge office 36 m2 \$1,800.00 \$64,800.00 7.1.5.2 Weighbridge \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 \$200,000.00 Outbound weighbridge to be installed once facility reaches 1 Item EXCL 100KTPA	7.1.4.6	Boom gate	4	No	\$3,500.00	\$14,000.00
7.1.5.2 Weighbridge \$200,000.00 7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 \$200,000.00 Outbound weighbridge to be installed once facility reaches 1 Item EXCL 100KTPA	7.1.5	External Structures				\$264,800.00
7.1.5.2.1 Proposed weighbridge 1 Item \$200,000.00 \$200,000.00 Outbound weighbridge to be installed once facility reaches 1 Item EXCL 100KTPA	7.1.5.1		36	m2	\$1,800.00	\$64,800.00
Outbound weighbridge to be 7.1.5.2.2 installed once facility reaches 1 Item EXCL 100KTPA	7.1.5.2	Weighbridge				\$200,000.00
7.1.5.2.2 installed once facility reaches 1 Item EXCL 100KTPA	7.1.5.2.1	Proposed weighbridge	1	Item	\$200,000.00	\$200,000.00
7.1.6 Signage and Linemarking \$15,040.00	7.1.5.2.2	installed once facility reaches	1	Item		EXCL
	7.1.6	Signage and Linemarking				\$15,040.00



7.1.6.1 Allowance for miscellaneous 1 Item EXCL 7.1.6.2 Waste skip bins / receptables 1 Item EXCL 7.1.6.3 1200mm wide pedestrian path 96 m2 \$50.00 \$44,800.00 7.1.6.4 Allowance for signage to the site 1 Item \$10,000.00 7.1.6.5 Allowance for signage to the site 1 Item \$10,000.00 7.1.6.6 Allowance for directional arrow 1 Item EXCL 7.1.6.7 Line marking to storage area 1 Item EXCL 7.1.6.7 Line marking to waiting area 1 Item EXCL 7.1.7 Soft Landscaping \$194,040.00 7.1.7.1 Irrigated landscaped buffer (5m 4,185 m2 \$15.00 \$62,775.00 7.1.7.2 Medialeuca Biconvexa buffer area 1,057 m2 \$25.00 \$26,425.00 7.1.7.3 Irrigation 5,242 m2 \$20.00 \$104,840.00 7.1.7.4 Mintenance 1 Item EXCL 7.2 EXTERNAL SERVICES \$1,141,394.00 7.2.1.1 Trench Excavation \$78,055.00 7.2.1.1 Assumed no change from previous report \$78,055.00 7.2.1.1 Allowance for trench excavation to 703 m3 \$55.00 \$38,665.00 7.2.1.1.1 Ditto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.2 Pipework \$207,365.00 7.2.1.2 Pipework \$207,365.00 7.2.1.2 Pipework \$207,365.00 7.2.1.3 Ditto 375mm dia RCP 263 m \$250.00 \$227,365.00 7.2.1.2.1 Contact Con			Quantity	Unit	Rate	Total
7.1.6.2 Waste skip bins / receptables 1 Item EXCL 7.1.6.3 1200mm wide pedestrian path 96 m2 \$50.00 \$4,800.00 7.1.6.4 Allowance for linemarking 48 m \$5.00 \$240.00 7.1.6.5 Allowance for signage to the site [Provisional Sum] 1 item \$10,000.00 \$10,000.00 7.1.6.6 Allowance for directional arrow linemarking to storage area 1 item EXCL 7.1.6.7 Line marking to waiting area 1 item \$20,000 \$62,775.00 7.1.7 Soft Landscaping 4,185 m2 \$15.00 \$62,775.00 7.1.7.1 Irrigated landscaped buffer (Sm wide) 4,185 m2 \$15.00 \$62,775.00 7.1.7.2 Melaleuca Biconvexa buffer area 1,057 m2 \$25.00 \$26,475.00 7.1.7.3 Irrigation \$7,422 m2 \$20.00 \$104,840.00 7.2.1. External Stormwater Services \$884,129.00 \$2.1 \$2.1 External Services \$884,129.00	7.1.6.1		1	item		EXCL
7.1.6.4 Allowance for linemarking 48 m \$5.00 \$240.00 7.1.6.5 Allowance for signage to the site [provisional Sum] 1 item \$10,000.00 \$10,000.00 7.1.6.6 Allowance for directional arrow linemarking to storage area 1 item EXCL 7.1.6.7 Line marking to waiting area 1 item EXCL 7.1.7.1 Unificated landscaped buffer (Sm wide) 4,185 m2 \$15.00 \$62,775.00 7.1.7.2 Melaleuca Biconvexa buffer area 1,057 m2 \$25.00 \$26,425.00 7.1.7.3 Irrigation 5,242 m2 \$20.00 \$104,840.00 7.1.7.4 Maintenance 1 item EXCL 7.2 EXTERNAL SERVICES \$1,141,394.00 \$7.21.1 7.2.1 External Stormwater Services \$884,129.00 \$7.21.1 7.2.1.1 Assumed no change from previous report \$78,055.00 \$78,055.00 7.2.1.1.1 Assumed no change from previous report \$2.1.2 \$2.1.2 \$2.1.2 7.2.1.2.1 </td <td>7.1.6.2</td> <td></td> <td>1</td> <td>item</td> <td></td> <td>EXCL</td>	7.1.6.2		1	item		EXCL
7.1.6.5 Allowance for signage to the site 1 1 1 1 1 1 1 1 1	7.1.6.3	1200mm wide pedestrian path	96	m2	\$50.00	\$4,800.00
Provisional Sum 1 1 1 1 1 1 1 1 1	7.1.6.4	Allowance for linemarking	48	m	\$5.00	\$240.00
T.1.6.5	7.1.6.5		1	item	\$10,000.00	\$10,000.00
	7.1.6.6		1	item		EXCL
7.1.7.1 Irrigated landscaped buffer (5m wide) 4,185 m2 \$15.00 \$62,775.00 7.1.7.2 Melaleuca Biconvexa buffer area 1,057 m2 \$25.00 \$26,425.00 7.1.7.3 Irrigation 5,242 m2 \$20.00 \$104,840.00 7.1.7.4 Maintenance 1 litem EXCL 7.2 EXTERNAL SERVICES \$1,141,394.00 7.2.1 External Stormwater Services \$884,129.00 7.2.1.1 Trench Excavation \$78,055.00 7.2.1.1 Trench Excavation \$78,055.00 7.2.1.1 Passumed no change from previous report 7.2.1.1.2 Allowance for trench excavation to drainage lines 7.2.1.1.4 Disposal of excess material 1 litem EXCL 7.2.1.1.4 Disposal of excess material 1 litem EXCL 7.2.1.2 Pipework \$207,365.00 7.2.1.2.1 Passumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$255.00 \$68,117.00 7.2.1.2.2 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,110.00 7.2.1.3 Pits \$23,110.00 \$23,110.00 7.2.1.3 Pits \$23,110.00	7.1.6.7	Line marking to waiting area	1	item		EXCL
7.1.7.1 wide) 4,163 III2 \$15.00 \$862,775.00 7.1.7.2 Melaleuca Biconvexa buffer area 1,057 m2 \$25.00 \$26,425.00 7.1.7.3 Irrigation 5,242 m2 \$20.00 \$104,840.00 7.1.7.4 Maintenance 1 item EXCL	7.1.7	Soft Landscaping				\$194,040.00
7.1.7.3 Irrigation 5,242 m2 \$20.00 \$104,840.00 7.1.7.4 Maintenance 1 item EXCL 7.2 EXTERNAL SERVICES \$1,141,394.00 7.2.1 External Stormwater Services \$884,129.00 7.2.1.1 Trench Excavation \$78,055.00 7.2.1.1.1 Assumed no change from previous report drainage lines 606 m3 \$55.00 \$38,665.00 \$7.2.1.1.3 Ditto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 \$7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report \$7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 \$7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 \$7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 \$7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 \$7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 \$7.2.1.3 Pits \$23,100.00 7.2.1.3 Pits \$23,100.00 7.2.1.3 Assumed no change from previous report report 14 No \$1,650.00 \$23,100.00 \$7.2.1.3.1 Assumed no change from previous report 15.1.3.2 Allowance for 900x900 reinforced 14 No \$1,650.00 \$23,100.00 \$7.2.1.3.1 Excavation - Assumed part of cut to fill 1 item EXCL	7.1.7.1		4,185	m2	\$15.00	\$62,775.00
7.1.7.4 Maintenance 1 item EXCL 7.2 EXTERNAL SERVICES \$1,141,394.00 7.2.1 External Stormwater Services \$884,129.00 7.2.1.1 Trench Excavation \$78,055.00 7.2.1.1.1 Assumed no change from previous report \$703 m3 \$55.00 \$38,665.00 7.2.1.1.2 Allowance for trench excavation to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.3 Diltto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2.1 Pipework \$207,365.00 \$20,365.00 7.2.1.2.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report \$207,365.00 \$68,117.00 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 13 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 525mm dia RCP	7.1.7.2	Melaleuca Biconvexa buffer area	1,057	m2	\$25.00	\$26,425.00
7.2 EXTERNAL SERVICES \$1,141,394.00 7.2.1 External Stormwater Services \$884,129.00 7.2.1.1.1 Trench Excavation \$78,055.00 7.2.1.1.1 Assumed no change from previous report 7.2.1.1.2 7.2.1.1.2 Allowance for trench excavation to drainage lines 606 m3 \$55.00 \$38,665.00 7.2.1.1.3 Ditto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2.1 Pipework \$207,365.00 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1	7.1.7.3	Irrigation	5,242	m2	\$20.00	\$104,840.00
7.2.1.1 External Stormwater Services \$884,129.00 7.2.1.1.1 Trench Excavation \$778,055.00 7.2.1.1.1 Assumed no change from previous report Allowance for trench excavation to drainage lines 606 m3 \$55.00 \$38,665.00 7.2.1.1.3 Ditto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3 Pits \$23,100.00 7.2.1.3 Assumed no change from previous report Round RCP Report Repor	7.1.7.4	Maintenance	1	item		EXCL
7.2.1.1 Trench Excavation \$78,055.00 7.2.1.1.1 Assumed no change from previous report	7.2	EXTERNAL SERVICES				\$1,141,394.00
7.2.1.1.1 Assumed no change from previous report 7.2.1.1.2 Allowance for trench excavation to drainage lines for previous report 7.2.1.1.3 Ditto backfilling to drainage lines for many separation of the previous report 7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3 Pits \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4 Excavation - Assumed part of cut to fill item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1	External Stormwater Services				\$884,129.00
7.2.1.1.2 report 7.2.1.1.2 Ditto backfilling to drainage lines 703 m3 \$55.00 \$38,665.00 7.2.1.1.3 Ditto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3 Assumed no change from previous report 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond Excavation - Assumed part of cut to fill 7.2.1.4.1 Excavation - Assumed part of cut to fill 7.2.1.4.2 Stacked sandstone wall	7.2.1.1	Trench Excavation				\$78,055.00
7.2.1.1.2 drainage lines 703 m3 \$55.00 \$33,665.00 7.2.1.1.3 Ditto backfilling to drainage lines 606 m3 \$65.00 \$39,390.00 7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2 Pipework \$207,365.00	7.2.1.1.1					
7.2.1.1.4 Disposal of excess material 1 item EXCL 7.2.1.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.1.2		703	m3	\$55.00	\$38,665.00
7.2.1.2 Pipework \$207,365.00 7.2.1.2.1 Assumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.1.3	Ditto backfilling to drainage lines	606	m3	\$65.00	\$39,390.00
7.2.1.2.1 Assumed no change from previous report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.1.4	Disposal of excess material	1	item		EXCL
7.2.1.2.1 report 7.2.1.2.2 Supply and install 300mm dia RCP 263 m \$259.00 \$68,117.00 7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.2	Pipework				\$207,365.00
7.2.1.2.3 Ditto 375mm dia RCP 113 m \$261.00 \$29,493.00 7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.2.1					
7.2.1.2.4 Ditto 450mm dia RCP 67 m \$345.00 \$23,115.00 7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.2.2	Supply and install 300mm dia RCP	263	m	\$259.00	\$68,117.00
7.2.1.2.5 Ditto 525mm dia RCP 70 m \$438.00 \$30,660.00 7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.2.3	Ditto 375mm dia RCP	113	m	\$261.00	\$29,493.00
7.2.1.2.6 Ditto 750mm dia RCP 90 m \$622.00 \$55,980.00 7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report	7.2.1.2.4	Ditto 450mm dia RCP	67	m	\$345.00	\$23,115.00
7.2.1.3 Pits \$23,100.00 7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.2.5	Ditto 525mm dia RCP	70	m	\$438.00	\$30,660.00
7.2.1.3.1 Assumed no change from previous report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond 5499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.2.6	Ditto 750mm dia RCP	90	m	\$622.00	\$55,980.00
7.2.1.3.1 report 7.2.1.3.2 Allowance for 900x900 reinforced concrete pits 14 No \$1,650.00 \$23,100.00 7.2.1.4 OSD Pond \$499,179.00 7.2.1.4.1 Excavation - Assumed part of cut to fill EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.3	Pits				\$23,100.00
7.2.1.4.1 OSD Pond \$1,650.00 \$23,100.00 7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.3.1	report				
7.2.1.4.1 Excavation - Assumed part of cut to fill 1 item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.3.2		14	No	\$1,650.00	\$23,100.00
7.2.1.4.1 to fill 1 Item EXCL 7.2.1.4.2 Stacked sandstone wall 916 m2 \$270.00 \$247,320.00	7.2.1.4	OSD Pond				\$499,179.00
	7.2.1.4.1		1	item		EXCL
7.2.1.4.3 Foundation for headwall 15 m \$250.00 \$3,750.00	7.2.1.4.2	Stacked sandstone wall	916	m2	\$270.00	\$247,320.00
	7.2.1.4.3	Foundation for headwall	15	m	\$250.00	\$3,750.00



	1	Quantity	Unit	Rate	Total
	Cast in-situ or precast reinforced				
7.2.1.4.4	concrete wall [Headwall] with scour protection	89	m2	\$471.00	\$41,919.00
7.2.1.4.5	Floating wetlands [Provisional Cost]	1,502	m2	\$22.50	\$33,795.00
7.2.1.4.6	Outlets with watertight penstocks [Included within Headwall cost]	3	No	\$150.00	\$450.00
7.2.1.4.7	Barramy gross pollutant trap	4	No	\$25,000.00	\$100,000.00
7.2.1.4.8	Dish drain with minimum 1% fall	219	m	\$75.00	\$16,425.00
7.2.1.4.9	Rock apron	192	m2	\$50.00	\$9,600.00
7.2.1.4.10	Level spreader [Assumed part of cut to fill]	50	m		INCL
7.2.1.4.11	Bioswale including waterproof liner 1.5mm HDPE or GCL, 100mm Vinidex slotted subsoil (SN6) no sock, 5mm gravel drainage layer, 100mm transition layer and 400mm sand media layer	328	m	\$140.00	\$45,920.00
7.2.1.5	Pipework				\$11,430.00
7.2.1.5.1	Assumed no change from previous report				
7.2.1.5.2	Supply and install 300mm dia RCP	18	m	\$259.00	\$4,662.00
7.2.1.5.3	Ditto 675mm dia RCP	12	m	\$564.00	\$6,768.00
7.2.1.6	18kL rainwater tanks (for dust suppression inside tip and spread building)	10	No	\$5,000.00	\$50,000.00
7.2.1.7	Min. 20kL rainwater tank for wash bay	1	No	\$5,000.00	\$5,000.00
7.2.1.8	Pumps, etc	1	item	\$10,000.00	\$10,000.00
7.2.1.9	OSD tank (approved under Stage 1)	1	item		EXCL
7.2.2	External Sewer Services				\$2,500.00
7.2.2.1	Connection into existing supply	1	item	\$2,500.00	\$2,500.00
7.2.3	External Water Supply				\$1,000.00
7.2.3.1	Connection into existing supply	1	item	\$1,000.00	\$1,000.00
7.2.4	External Gas Supply				
7.2.4.1	External Gas Supply	1	item		EXCL
7.2.5	External Fire Protection				\$228,765.00
7.2.5.1	Proposed dust suppression [45No oulets] - Provisional allowance	15,251	m2	\$15.00	\$228,765.00
7.2.6	External Electrical				\$25,000.00
7.2.6.1	Amplification of services	1	item		EXCL
7.2.6.2	Substation	1	item		EXCL
7.2.6.3	Traffic Lights (2 sets) Access control & communications system to weigh bridge (Provisional Sum)	1	item	\$25,000.00	\$25,000.00
7.2.6.4	Allowance for CCTV security system [Provisional]	1	item		EXCL



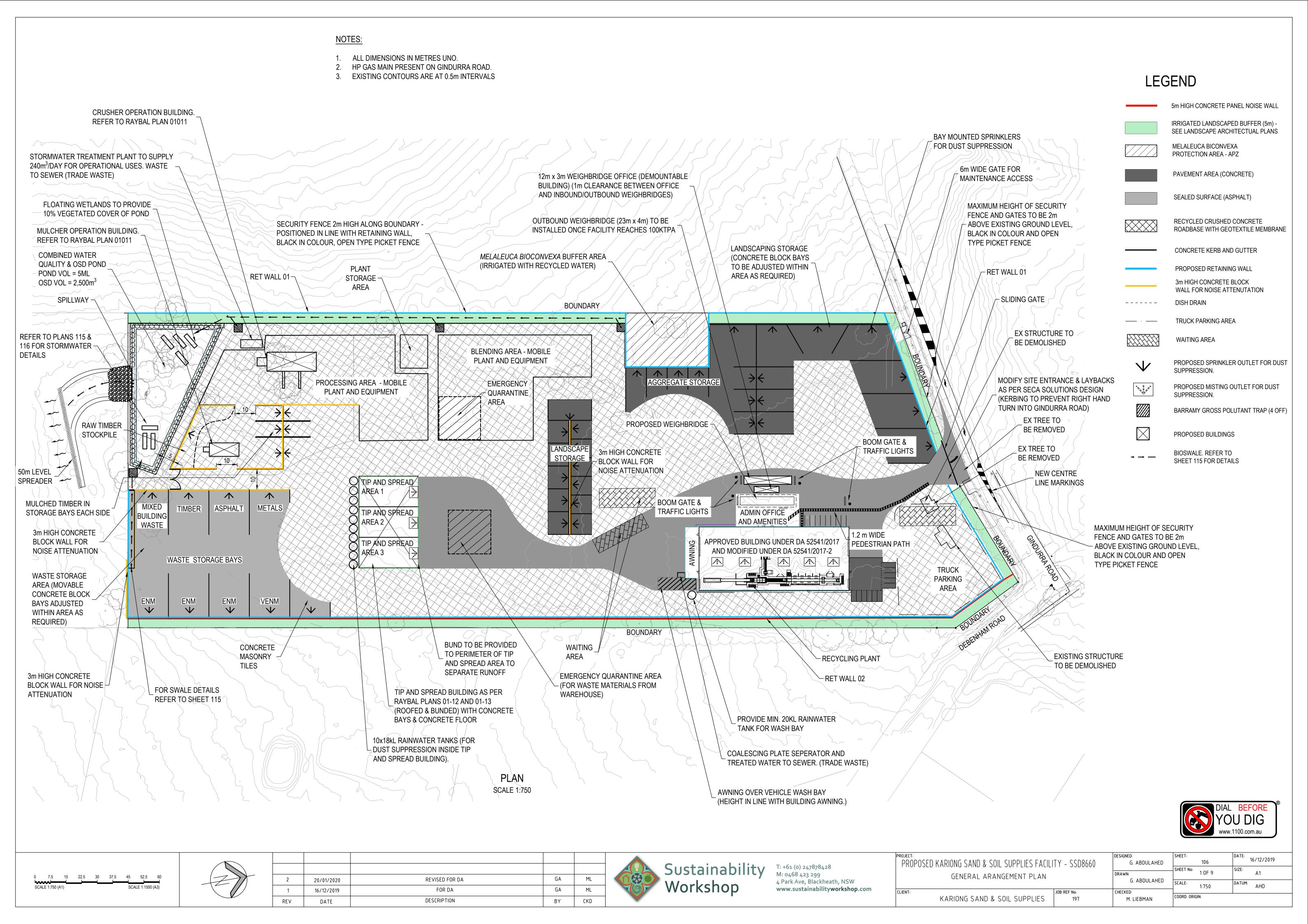
		Quantity	Unit	Rate	Total
8	WORKS OUTSIDE BOUNDARY				\$59,005.00
8.1	General				\$34,800.00
8.1.1	Site establishment and demobilisation	1	item	\$2,500.00	\$2,500.00
8.1.2	Contractors supervision	1	wks	\$10,000.00	\$10,000.00
8.1.3	Survey and set out of works by registered surveyor	3	days	\$1,800.00	\$5,400.00
8.1.4	Location of services	1	item	\$2,000.00	\$2,000.00
8.1.5	Protection of services [Provisional]	1	item	\$5,000.00	\$5,000.00
8.1.6	Traffic control	1	wks	\$1,900.00	\$1,900.00
8.1.7	Extra over for out of hours work	1	item	\$3,000.00	\$3,000.00
8.1.8	Work as executed drawings	1	item	\$5,000.00	\$5,000.00
8.2	Concrete Works				\$17,005.00
8.2.1	New asphalt pavement comprising 200mm thick DGB20 subbase, 200mm thick DGS20 base course, 7mm primer seal and 40mm thick AC layer	179	m2	\$95.00	\$17,005.00
8.3	Linemarking				\$7,200.00
8.3.1	New centre line markings	180	m2	\$40.00	\$7,200.00
9	MOBILE PLANT/ EQUIPMENT				\$3,622,000.00
9.1	Rubber tyred loader - Volvo L150 [NB: Adopted value as per Jackson Environment & Planning advice]	1	item	\$400,000.00	\$400,000.00
9.2	Picking Station / Trommel / Blower / Magnetic [Kiverco]	1	item	\$1,100,000.00	\$1,100,000.00
9.3	Bagging Plant - Rotto Chopper [Ditto]	1	item	\$100,000.00	\$100,000.00
9.4	Crushing Plant - Metso 1213S [Ditto]	1	item	\$1,022,000.00	\$1,022,000.00
9.5	Waste Handler - Liebherr LH24 [Ditto]	1	item	\$440,000.00	\$440,000.00
9.6	Screening Plant - Metso ST3.5 [Ditto]	1	item	\$260,000.00	\$260,000.00
9.7	Excavator 30 Tonne - Cat 330 [Ditto]	1	item	\$300,000.00	\$300,000.00
10	DESIGN DEVEOPMENT ALLOWANCE				
10.1	Design development allowance (%)	1	item		EXCL
11	PRELIMINARIES & MARGIN				\$972,533.39
11.1	Allowance for Builders preliminaries, overhead & margin (7%)	1	item	\$972,533.39	\$972,533.39
12	CONSTRUCTION CONTINGENCY				
12.1	Construction contingency allowance	1	item		EXCL
13	IDENTIFIED RISK ITEMS				
13.1	Identified Risks	1	Item		EXCL
14	PROFESSIONAL FEES				

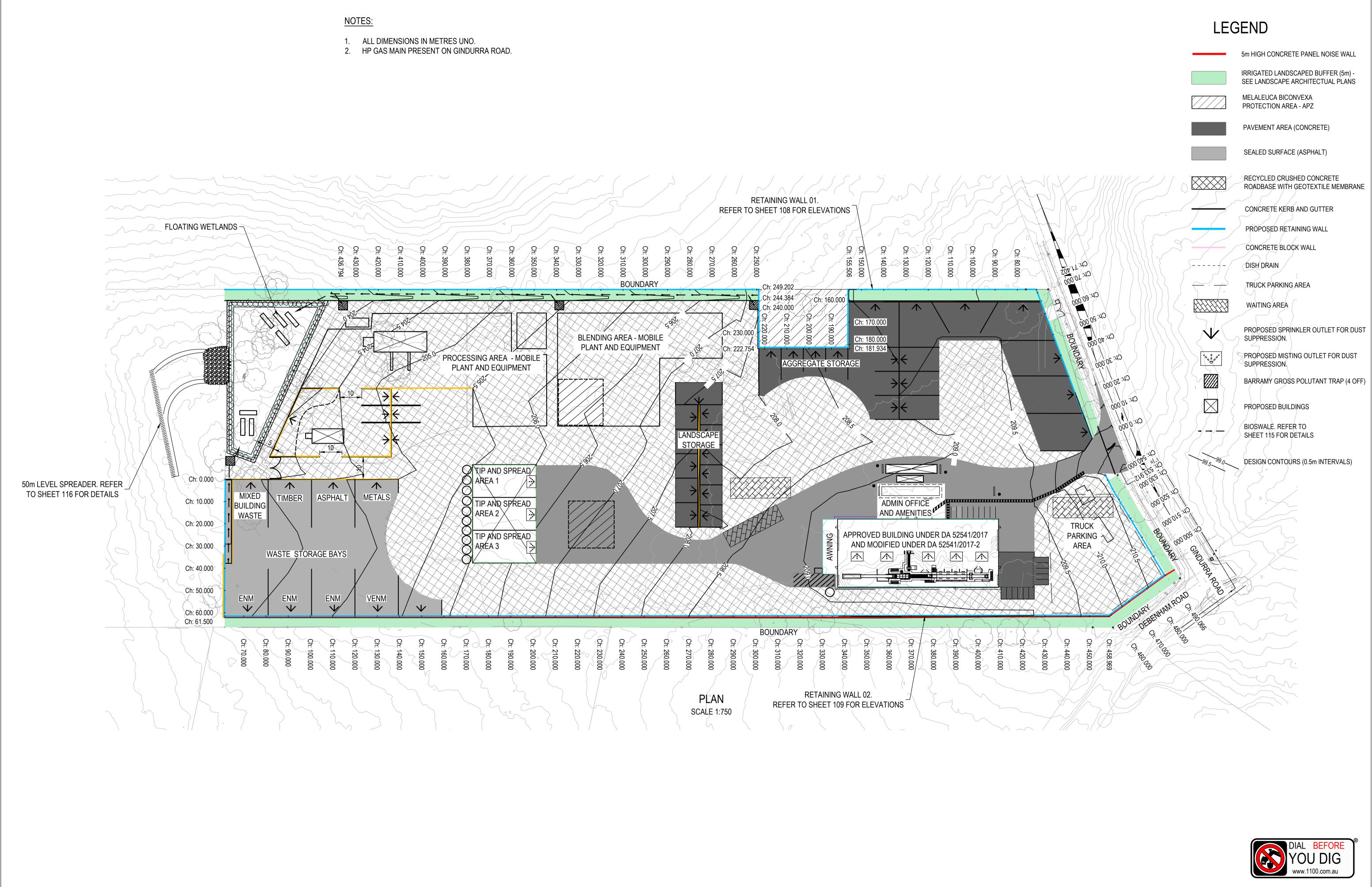


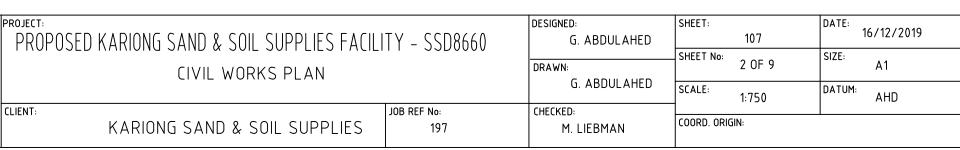
		Quantity	Unit	Rate	Total
14.1	Professional Fees	1	item		EXCL
15	CONSULTANT FEES				
15.1	Consultant Fees	1	item		EXCL
16	AUTHORITY FEES AND CONTRIBUTION	NS			
16.1	Authority Fees and Contributions	1	item		EXCL
17	ESCALATION				
17.1	Escalation	1	item		EXCL
				Subtotal	\$14,865,867.50
				Adjustment	\$0.00
				Total	\$14,865,867.50

APPENDIX B - SUPPORTING DOCUMENTS

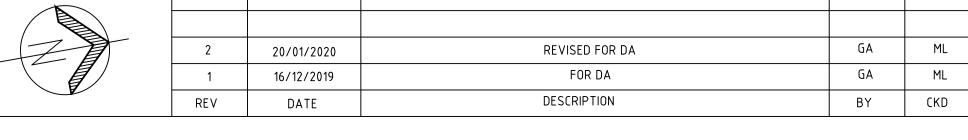






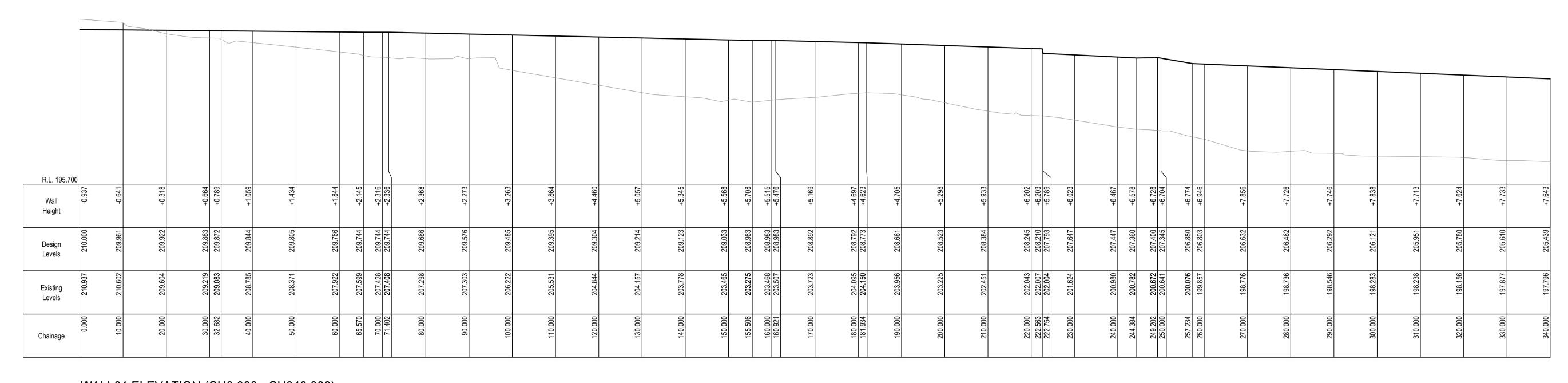






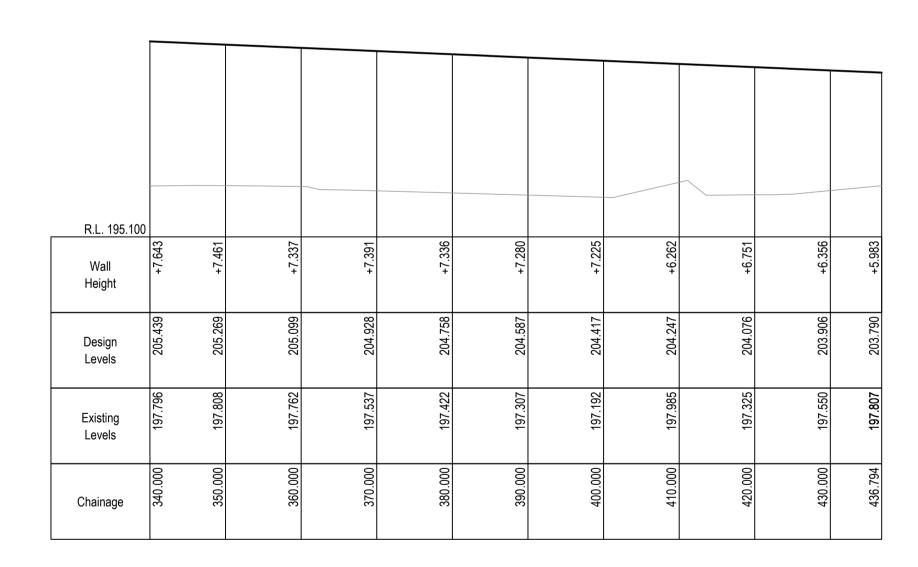


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www.sustainabilityworkshop.com



WALL01 ELEVATION (CH0.000 - CH340.000)

SCALES H 1:500
V 1:200



WALL01 ELEVATION (CH340.000 - CH436.794)

SCALES H 1:500
V 1:200

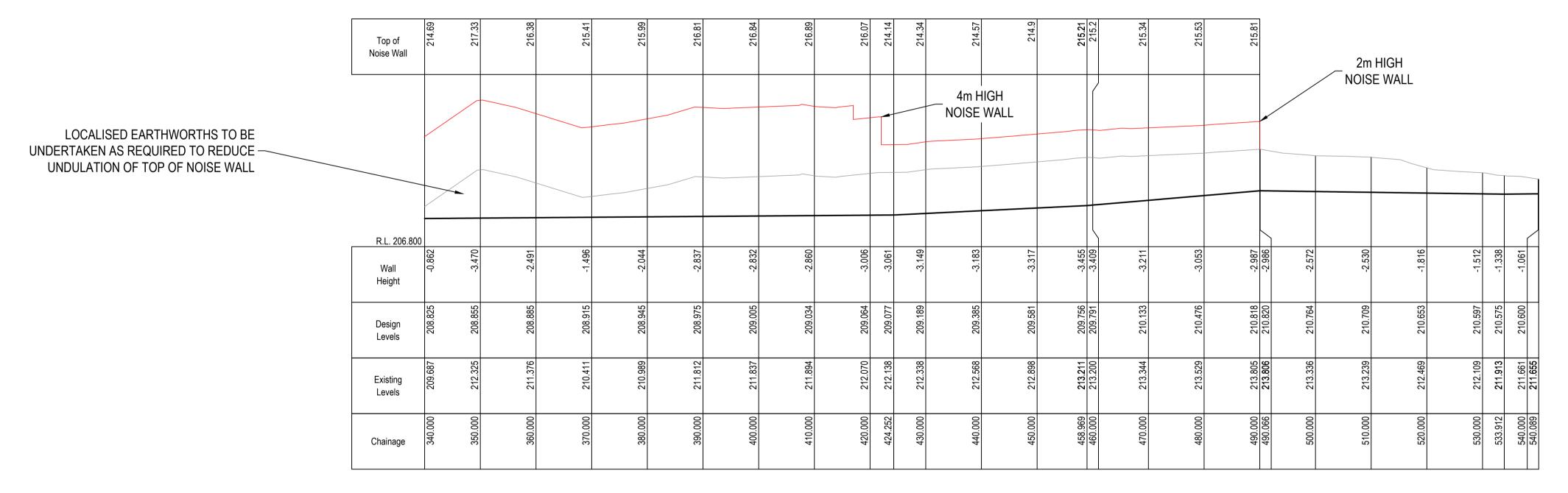


2	20/01/2020	REVISED FOR DA	GA	ML	Sustainability	T: +61 (o) 247878428 M: 0468 423 299 4 Park Ave, Blackheath, NSW	PROPOSED KARIONG SAND & SOIL SUPPLIES FACILITY - SSD8660 RETAINING WALL LONG SECTIONS - SHEET 1 OF 2	DESIGNED: G. ABDULAHED DRAWN: G. ABDULAHED	SHEET: 108 SHEET No: 3 OF 9	DATE: 16/12/2019 SIZE: A1
1 REV	16/12/2019 DATE	FOR DA DESCRIPTION	GA BY	ML CKD	Workshop	www.sustainabilityworkshop.com	CLIENT: KARIONG SAND & SOIL SUPPLIES 197	CHECKED: M. LIEBMAN	COORD. ORIGIN:	DATUM: AHD

2	20/01/2020	REVISED FOR DA	GA	ML	Sustainability	T: +61 (o) 247878428 M: 0468 423 299 4 Park Ave, Blackheath, NSW	PROPOSED KARIONG SAND & SOIL SUPPLIES FACILITY - SSD8660 RETAINING WALL LONG SECTIONS - SHEET 2 OF 2	DESIGNED: G. ABDULAHED DRAWN: G. ABDULAHED	SHEET: 109 SHEET No: 4 OF 9 SCALE:	DATE: 16/12/2019 SIZE: A1 DATUM: ALID
1	16/12/2019	FOR DA	GA	ML	Workshop	$www.sustainability {\color{red}workshop.com}$	CLIENT: JOB REF No:	CHECKED:	_	AHU
REV	DATE	DESCRIPTION	ВҮ	CKD			KARIONG SAND & SOIL SUPPLIES 197	M. LIEBMAN	COORD. ORIGIN:	

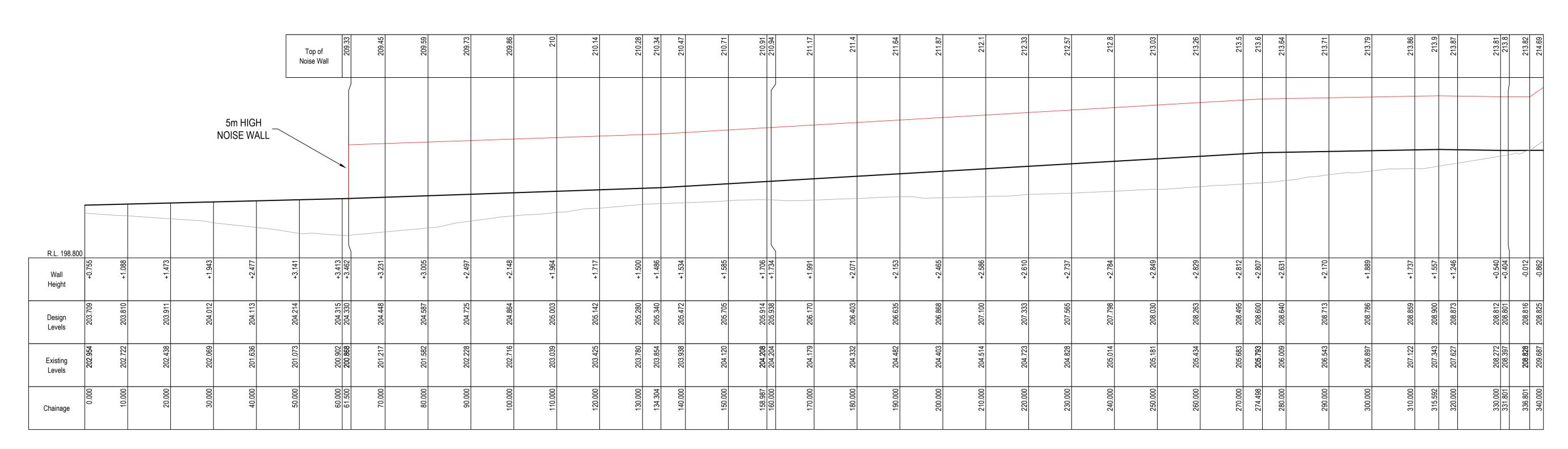
WALL02 ELEVATION (CH340.000 - CH540.089)

SCALES H 1:500
V 1:200



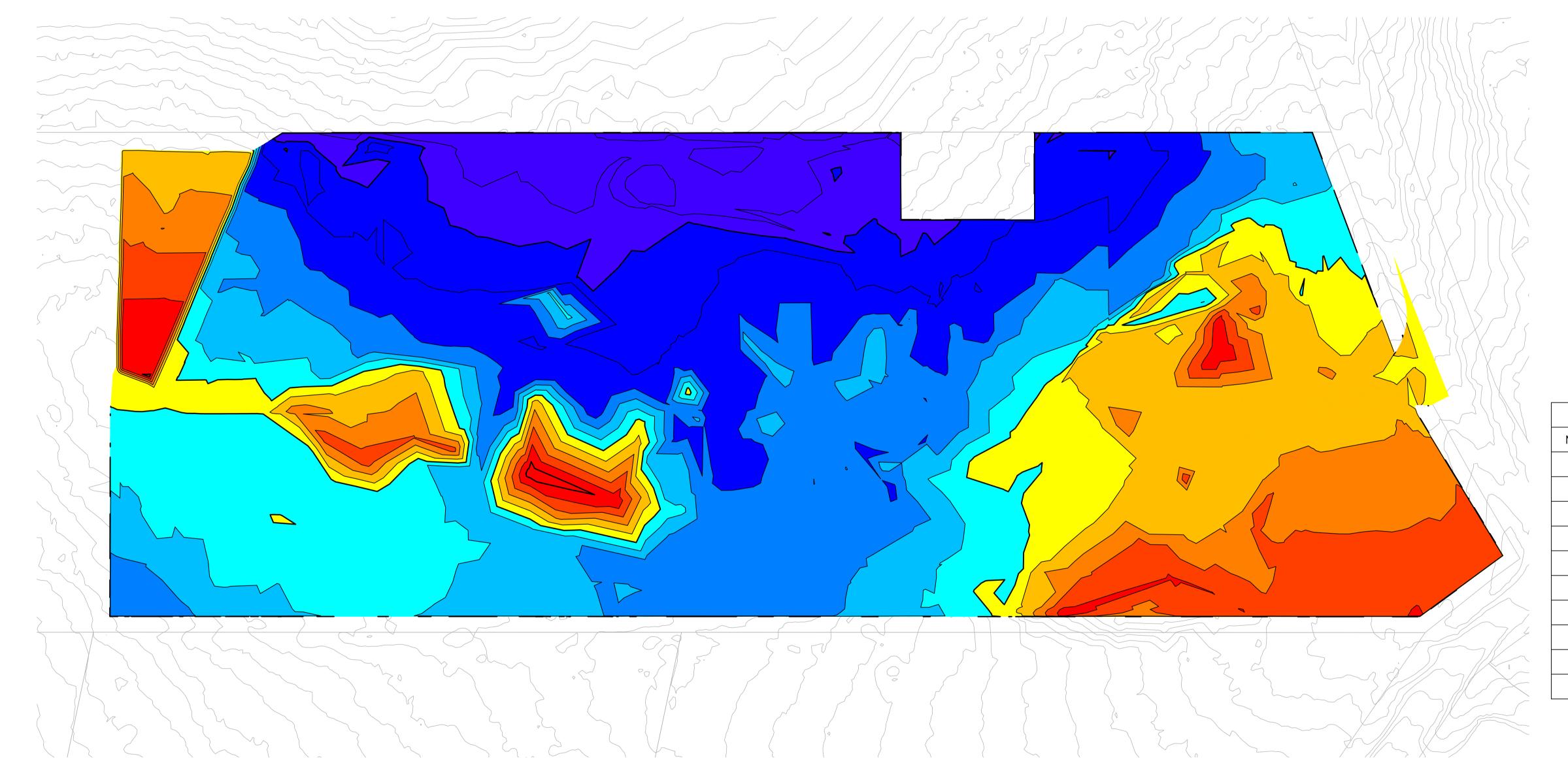
WALL02 ELEVATION (CH0.000 - CH340.000)

SCALES H 1:500
V 1:200



NOTES:

- 1. NET FILL VOLUME ABOVE EXISTING SURFACE = 107,200m³
- 2. NET CUT VOLUME BELOW EXISTING SURFACE = 35,900m³
- 3. BALANCE OF CUT : FILL = (107,200m³ 35,900m³) = 71,300m³ FILL REQUIRED
- PAVEMENT VOLUME = 25,200m³
 DRAINAGE LAYER VOLUME = 8,400m³
- 6. CONCRETE AREA = 6,600m²
 7. ASPHALT AREA = 11,500m²
- 8. UNSEALED PAVEMENT AREA = 30,500m²
- 9. ALL ABOVE AREAS ARE EXCLUDING BUILDINGS



	Levels Table									
Number	Minimum Level	Maximum Level	Colour							
1	-6.000	-4.000								
2	-4.000	-3.000								
3	-3.000	-2.000								
4	-2.000	-1.000								
5	-1.000	0.000								
6	0.000	1.000								
7	1.000	2.000								
8	2.000	3.000								
9	3.000	5.000								
10	5.000	8.000								

PLAN SCALE 1:750



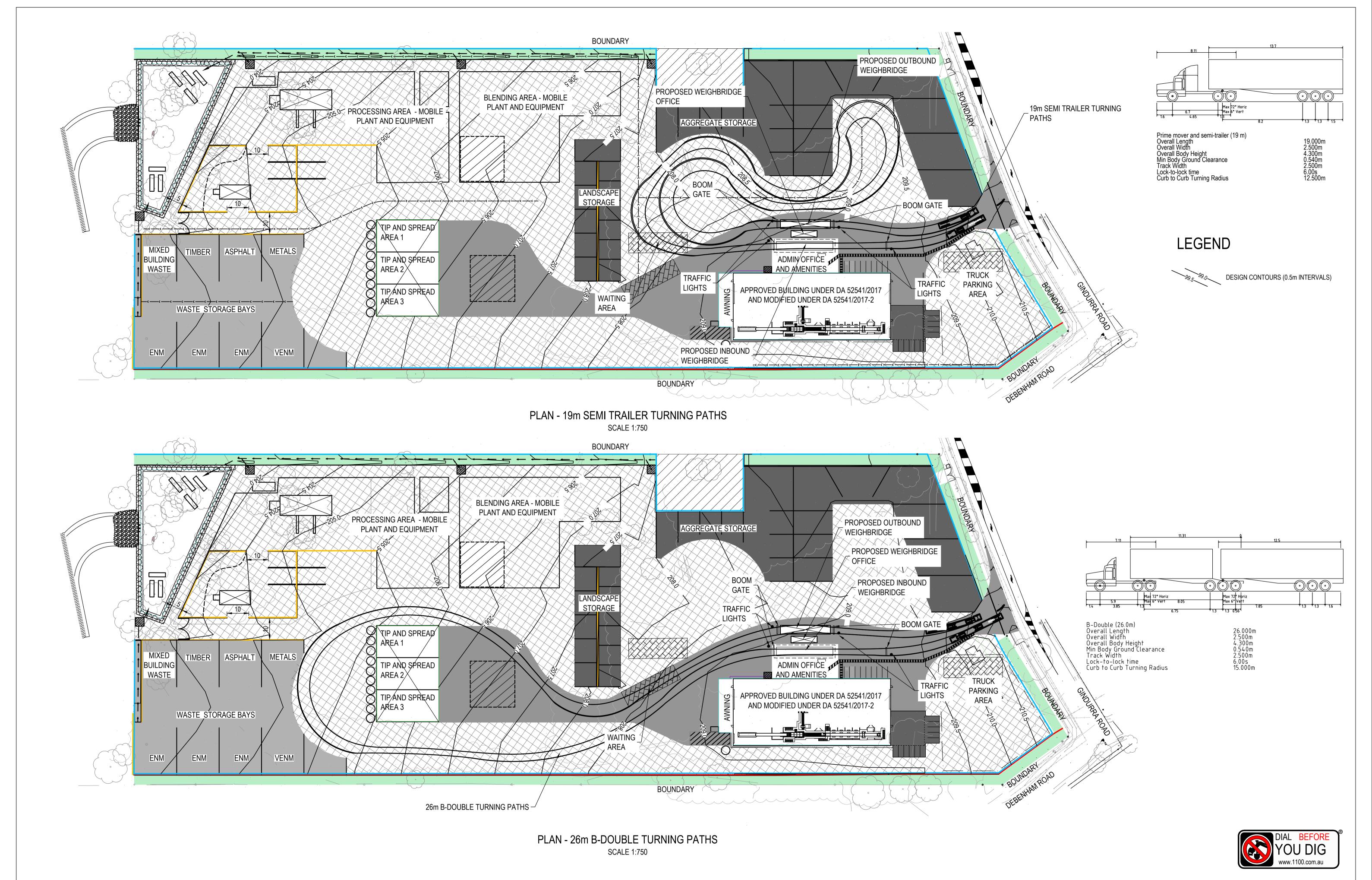
	7.5	15	22.5	30	37.5	45	52.5	60	-	$\frac{1}{2}$	Z	3	-
SC/	ALE 1:750 ((A1)				SCA	LE 1:1500	(A3)					

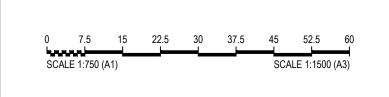
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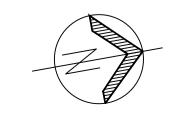


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4 Park Ave, Blackheath, NSW
www.sustainabilityworkshop.com

PROJECT:		DESIGNED:	SHEET:		DATE:	16 (40 (0040
PROPOSED KARIONG SAND & SOIL SUPPLIES FACILI	TY - SSD8660	G. ABDULAHED		110		16/12/2019
THO GOLD WITHOUT GAMES A GOLL GOT FELLO FACILI	11 000000		SHEET No:	F 0F 0	SIZE:	
BULK EARTHWORKS PLAN		DRAWN:		5 OF 9		A1
BOEN EARNOTH ON EARN		G. ABDULAHED	SCALE:		DATUM:	
	1			1:750		AHD
CLIENT:	JOB REF No:	CHECKED:				
KARIONG SAND & SOIL SUPPLIES	197	M. LIEBMAN	COORD. ORIG	ilN:		







2	20/01/2020	REVISED FOR DA	GA	ML
1	16/12/2019	FOR DA	GA	ML
REV	DATE	DESCRIPTION	BY	CKD



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PROJECT:	ED KARIONG SAND & SOIL SUPPLIES FACILI	DESIGNED: G. ABDULAHED	SHEET:	111	DATE: 16/12/2019	
1110100	TURNING MOVEMENTS PLAN	DRAWN: G. ABDULAHED	SHEET No: 6 OF 9		SIZE: A1	
CLIENT:		JOB REF No:	CHECKED:	SCALE:	1:750	DATUM: AHD
CEIEIVI	KARIONG SAND & SOIL SUPPLIES	197	M. LIEBMAN	COORD. OR	RIGIN:	

