



Turning Knowledge
Into Value

Engineering Services Report

Lot 8002 Baringa Drive, Aura Caloundra West

Prepared for Stockland Development Pty Ltd

18 August 2022

Calibre Professional Services Pty Ltd
55 070 683 037

QUALITY ASSURANCE STATEMENT

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Approved for Issue by	Shaun Pilcher	

DOCUMENT CONTROL

ISSUE	DATE	ISSUE DETAILS	AUTHOR	CHECKED	APPROVED
A	28.07.2021	Draft	AG	SP	SP
B	17.09.2021	Response to RFI	AG	SP	SP
C	20.09.2021	Updated Drawings in Attachment A	AG	SP	SP
D	18.08.2022	Updated Drawings in Attachment A	AG	EC	SP

21-000157 ESR01D.AG.RI.Docx

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1. Introduction

Calibre Professional Services Pty Ltd has been commissioned by Stockland Development to prepare this Engineering Services Report in support of a Development Application for the proposed medium density development located within the Aura Development, Caloundra West. The site will be described as Lot 8002 SP312963 which is located on Baringa Drive, Aura, Caloundra West within the Sunshine Coast Regional Council (SCRC) Local Government Area. The site is located on the corner of Baringa Drive and Lukin Terrace.

This report covers issues related to civil infrastructure required to suitably service the site. The civil infrastructure to be addressed includes, water reticulation, sewer reticulation, roadworks, stormwater infrastructure and treatment, earthworks and car parking.

The objective of this report is to demonstrate that the proposed development can be supported by the existing infrastructure, serviced by new infrastructure and that the development is compliant with the Sunshine Coast Planning Scheme 2014, Queensland Streets, Australian Standards and other relevant guidelines. **Figure 1** indicates the location of the site:



Figure 1: Site Locality Plan (Nearmap)

1.1 Revision to this report

Revision C of this report has been prepared in response to MEDQ's further issues letter dated 27/08/21. The changes include:

- Pad level changes resulting in no need for fill material;
- Revision to layout plans to reflect the current architectural layout (namely the Pool location);
- Addition of a car wash bay;
- Inclusion of a line marking and signage plan to address the traffic movements at the internal intersection (refer Section 4.2); and
- Relocation of the stormwater treatment tank to provide improved maintenance access.

Revised Engineering drawings are provided in Attachment 1.

2. Existing Site Features

In its current form, the site is currently vacant land with slight grade from the West to East. The site is bound by Evans Lane to the west, Baringa Drive to the East and Lukin Terrace to the South and existing Goodstart Early Learning Centre to the North. Furthermore, Baringa State Primary School also exists to the East of the site. An existing stormwater connection is provided on the South-Eastern corner of the site (corner Lukin Terrace and Baringa Drive).

3. Earthworks

In its current form, the site is generally flat with ground levels ranging from RL 7.8m AHD to RL 6.4m AHD slightly falling from West to East. Earthworks proposed for the development include reshaping of the existing surface levels to achieve building pads and road grading. A preliminary earthworks calculation has identified approximately 370m³ of excess material to be removed off the site. In 2016 bulk earthworks have been completed on this site as part of bulk earthworks operations in Precinct 2. Level 1 report is available should that information be required.

4. Movement Network

4.1 Access and Internal Movements

There are two access/egress points proposed as shown on drawing 21-000157-104 as follows:

1. Primary all movements access off Lukin Terrace to the South. This will be a controlled “gated” entry/exit and will form the main access for day to use and servicing; and
2. Secondary on to Evans Lane. This will be a controlled “gated” entry/exit and will be closed on days when garbage collection is scheduled as the Bin Collection Zone is located along the kerb in front of gate area.

The formation of both driveway accesses will be in accordance with IPWEAQ standard drawing RS-051.

A swept path analyses have been completed and is shown on drawings 21-000157-118 to 21-000157-120. The swept paths analysis analysed the paths of a 12.5m single unit truck, 8.8m service vehicle and a 5.2m passenger vehicle movements within the site.

It is proposed that Waste will be collected kerbside from Evans Lane on servicing day. An internal bin storage location is proposed for day-to-day bin storage and use by occupants. On collection day bins will be transported to the kerb side for servicing. This approach avoids the need for the Waste Collection vehicle to enter and manoeuvre on the site.

4.2 Internal Road Network

The development will be serviced by an internal access road that links between Evans Lane to Lukin Terrace. The proposed formation is an approx. 6m wide inverted vee with central drainage. This approach avoids the need for kerb and channel along the pavement edge, creating a smooth interface between the pavement and individual driveways.

An informal pedestrian footpath is proposed along the southern and western sides of the internal road along the boundary. Regardless, the internal road will serve as a shared zone and will be designed/signed as a slow speed environment.

A line marking and signage plan has been prepared as shown on drawing 21-000157-121 to assist in defining movements at the main intersection adjacent to the entrance. In addition to the linemarking and signage, a separate intersection threshold treatment has been included in the design. This threshold will act as a visual prompt for drivers to highlight the approach to the intersection.

5. Stormwater Management

5.1 Quantity

Stormwater will be conveyed by a combination of road flows and underground pipe network. An existing stormwater connection point is provided along the eastern edge of the site which connects to the external major drainage line on the corner of Baringa Drive and Lukin Terrace.

The minor design rainfall event for this site is 10% AEP due to the medium density land use. The major design rainfall event is the 1% AEP.

Due to the flat nature of the site and the proposal inverted roads, the 1% AEP shall be conveyed via the underground pipe network. This approach provides a level of redundancy in the stormwater network and allows freeboard to habitable floor levels to be maximum.

The minimum lot level for the purpose of flooding is RL7.2m AHD, based on the regional flood level of RL6.49m (2100 Q100 including climate Change). Local design flood levels checks will need to be completed as part of detailed design to ensure that freeboard to the local flood levels in the surrounding roads is achieved.

Refer to drawings 21-000157-104 for preliminary drainage design.

5.2 Quality

A Stormwater Quality Management Plan (SWQMP) has been prepared by Calibre and should be read in conjunction with this report. The SWQMP sets out the required water quality performance objectives and the treatment system required to achieve the objectives.

In summary, the treatment strategy comprises the construction of six (6) SPEL Stormsacks distributed across the site and thirteen (13) SPEL Filter cartridges in a SPEL precast rectangular tank. The Stormsacks and Filter cartridges will treat local catchments prior to discharging to the stormwater network.

Refer to drawing 21-000157-113 for locations, sizes and formations.

6. Utilities

6.1 Water Supply

The site is serviced by an existing water connection located at the western end of the site along Evans Lane which is connected to a 100mm diameter main. This connection will not be used and a new connection coming from the 150mm main in Lukin Terrace is proposed.

An application to Unitywater will be required for the approval and construction of the site master meter. A plumbing and drainage approval will also be required from Sunshine Coast Council for the internal water reticulation, which will be carried out by the hydraulics consultant as part of detailed design.

Refer to drawings 21-000157-104 for proposed details of the water services for the site.

6.2 Sewerage and Sanitary Drainage

The site has an existing sewer connection located adjacent Lukin Terrace. The existing sewer connection will be used as the sole connection for sewerage to the site. The connection will be subject to Unitywater approval. A plumbing and drainage approval from Sunshine Coast Council will be required for the sanitary drainage, which will be completed as part of the detailed design.

Refer to drawings 21-000157-101 for proposed details of the sewerage and sanitary drainage proposed for the site.

6.3 Electrical and Communication

The site will be serviced with electrical and telecommunication reticulation in accordance with agreements with the relevant providers. Detailed design will be undertaken at the Building Application stage to ensure the additional buildings are adequately serviced. A proposed Pad Mount Transformer is to be located at the western end of the site along Evans Lane which will provide the main supply point to the site.

7. Construction

7.1 Environmental Management

The Environmental Management includes the management of sediment control and other nuisance resulting from the construction activities. This includes:

- Sediment and Erosion Control.
- Dust Control.
- Noise, Vibration and Odour Control.
- Management of existing neighbouring allotments to minimise disruption.

Erosion and sediment control will consist of clean and water cut-off drains, temporary sediment basin, silt fences and shakedown facilities to meet Sunshine Coast Councils requirements. These devices will be designed at the Operational Works Phase as necessary.

The design intent of the Sediment and Erosion Control shall be to minimise the disturbance and likelihood of sediment transportation. This includes both water and sediment run-off.

7.2 Traffic Management

The Contractor will be required to submit a site-specific traffic management plan to manage construction traffic flow, ingress and egress from construction site, pedestrian routes, and general site access during construction.

7.3 Construction Management Plan

The contractor will be required to submit a site-specific Construction Management Plan (CMP) for approval prior to commencement of site works.

The CMP will address Health and Safety, Traffic Management, Environmental Management, Quality Management, Construction Methodology (Work Method Statement) and Programme of Works. This plan will also cover dust controls, noise and vibration management, site stability and construction site access.

8. Conclusion

This report has been prepared to support the Site Development Plan (SDP) application for the Aura Caloundra West Lot 8002 Medium Density site.

This report provides engineering details in relation to Earthworks, roads and drainage, water and sewer required to service the development.

We are of the opinion that the information contained within this report and the various technical reports prepared for the Development Application along with the accompanying engineering plans, demonstrates that the proposed development is in accordance with Council's requirements.

Lot 8002 Baringa Drive, Aura Caloundra West

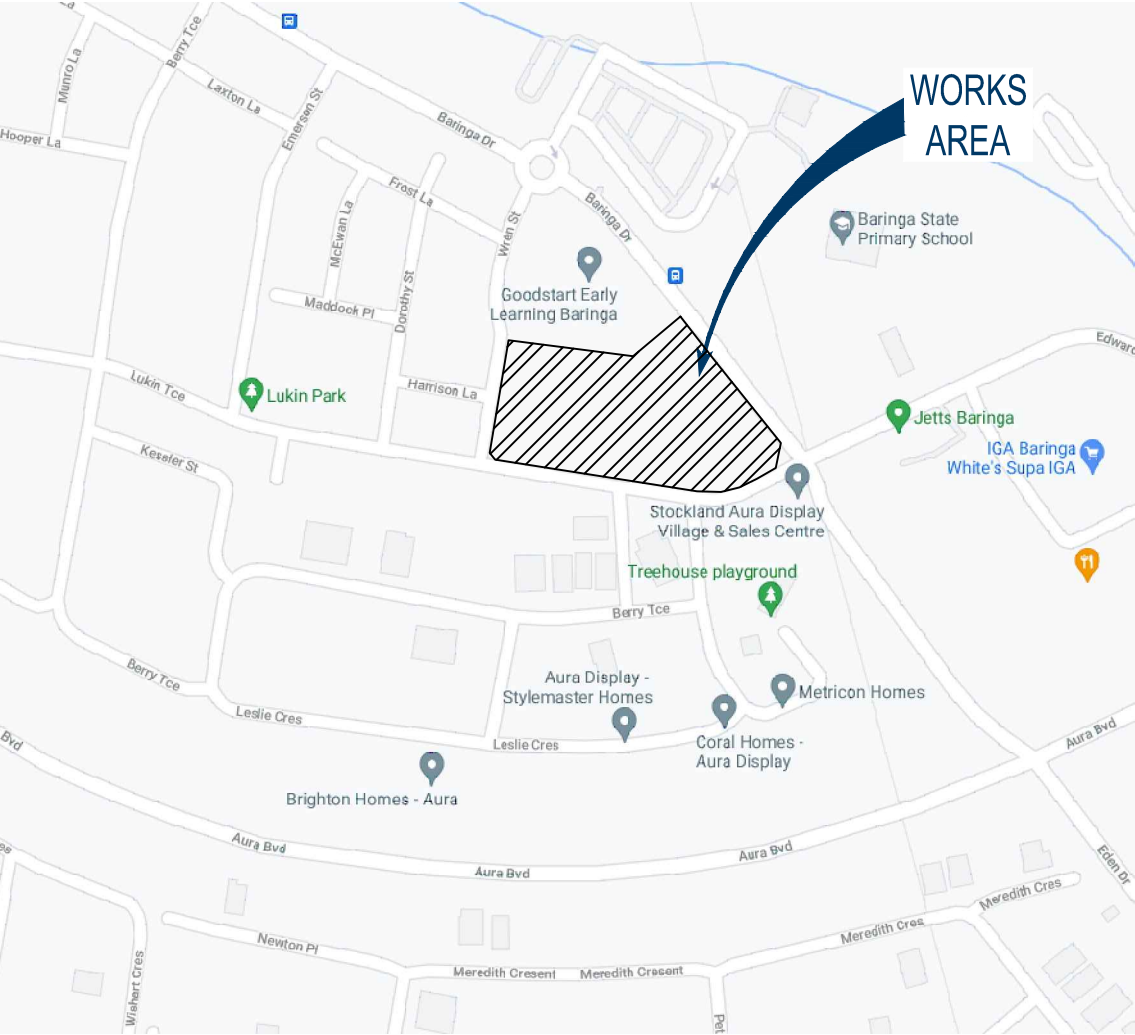
Attachment 1 Engineering Drawings

Stockland Kawana Waters Pty Ltd

BARINGA LOT 8002



STOCKLAND DEVELOPMENTS PTY LTD

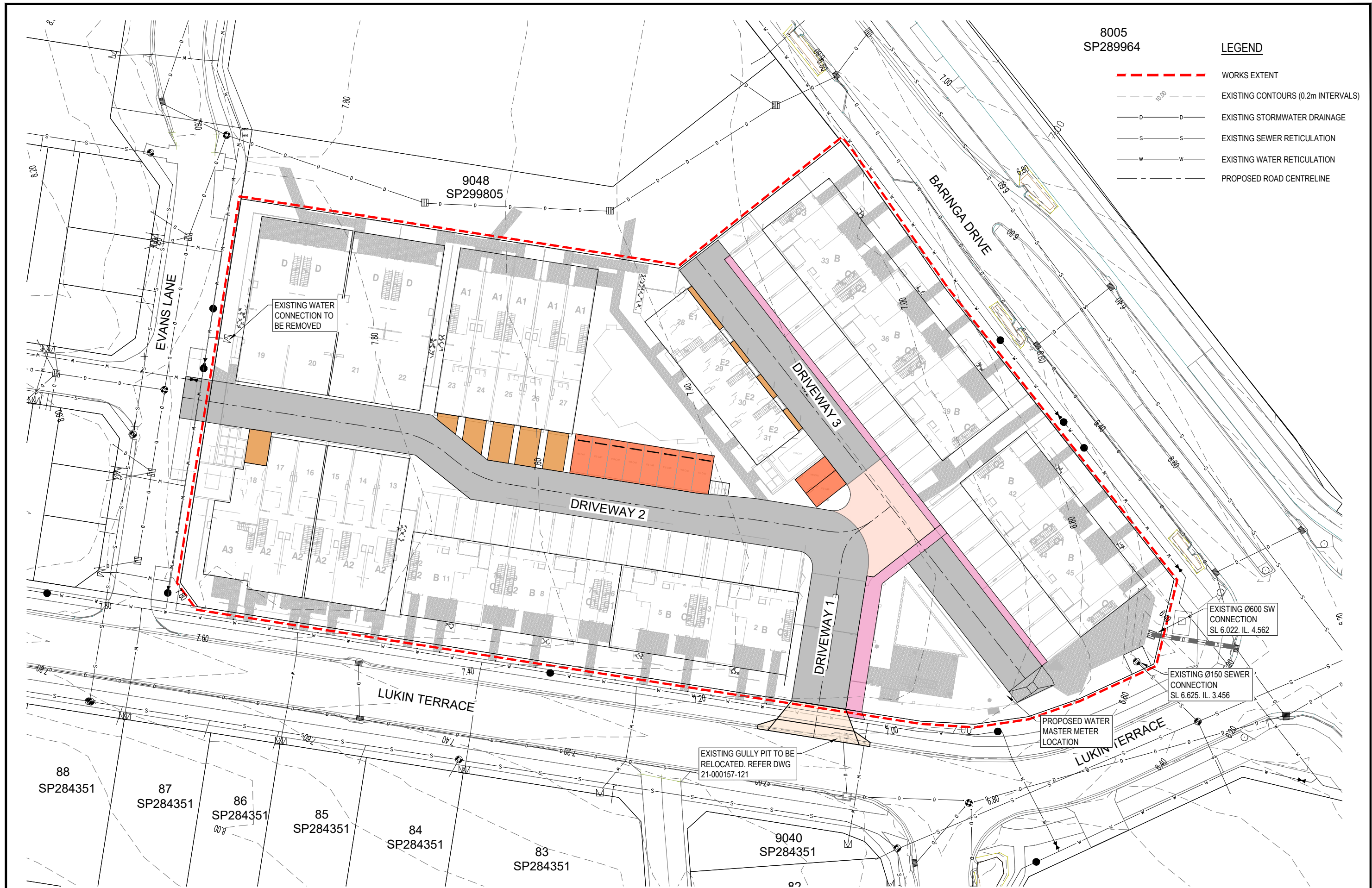


DRAWING INDEX		
DWG No	REVISION	DRAWING TITLE
21-000157-100	B	COVER SHEET
21-000157-101	F	PLAN OF EXISTING LEVELS AND SERVICES
21-000157-102	F	SURVEY SETOUT PLAN
21-000157-103	F	BULK EARTHWORKS LAYOUT PLAN
21-000157-104	F	ROADS AND DRAINAGE LAYOUT PLAN
21-000157-105	F	ROAD LONGITUDINAL SECTIONS SHEET 1 OF 2
21-000157-106	F	ROAD LONGITUDINAL SECTIONS SHEET 2 OF 2
21-000157-107	F	TYPICAL SECTIONS
21-000157-108	F	EROSION AND SEDIMENT CONTROL LAYOUT PLAN
21-000157-109	F	EROSION AND SEDIMENT CONTROL GENERAL NOTES
21-000157-110	F	EROSION AND SEDIMENT CONTROL TYPICAL DETAILS
21-000157-111	F	CONCRETE DETAILS
21-000157-112	F	CONCRETE JOINTING PLAN
21-000157-113	F	SPEL STORMWATER DEVICE DETAIL PLAN
21-000157-114	F	STORMWATER LONGITUDINAL SECTIONS
21-000157-115	F	STORMWATER Q10 CALCULATION TABLES
21-000157-116	C	STORMWATER Q100 CALCULATION TABLES
21-000157-117	F	DRIVEWAY LEVELS LAYOUT PLAN
21-000157-118	F	URNS PATHS 12.5m SINGLE UNIT TRUCK
21-000157-119	F	TURN PATHS 8.8m SERVICE VEHICLE
21-000157-120	F	TURN PATHS 5.2m PASSENGER VEHICLE
21-000157-121	F	SIGNS AND LINEMARKING LAYOUT PLAN
21-000157-122	F	STORMWATER RELOCATION DETAIL PLAN

09 JULY 2022



BARINGA LOT 8002



8005
SP289964

LEGEND

- WORKS EXTENT
- EXISTING CONTOURS (0.2m INTERVALS)
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER RETICULATION
- EXISTING WATER RETICULATION
- PROPOSED ROAD CENTRELINE

FILE: 21-000157-101.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE: 21-000157-BASE, DA 2.2, DWG (S) LOT 8002 - GROUND LEVEL-03-08-2022, 15-002215-006-AS Con, 21-000157-Existing Contours-200, 21-000157-BASE-DC-TURNPATH

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
	WP	WP	SP	SP	27.07.21	
A	WP	WP	SP	SP	29.09.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	21.10.21	TENDER ISSUE
C	WP	WP	SP	SP	13.12.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	05.05.22	AMENDED LAYOUT
E	WP	WP	SP	SP	12.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	09.08.22	AMENDED LAYOUT

STATUS

APPROVAL ISSUE

APPROVED

BY: SHAWN PILCHER 14593

SIGN: *Shawn Pilcher*

DATE: 31.05.22

SCALE

0 2.5 5 7.5 10 12.5 15 17.5 20

SCALE 1:250 (A1)

SCALE 1:500 (A3)

CLIENT

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PROJECT

BARINGA LOT 8002

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

DRAWING TITLE

PLAN OF EXISTING LEVELS AND SERVICES

PROJECT No. 21-000157

DRAWING No. 21-000157-101

REVISION

F

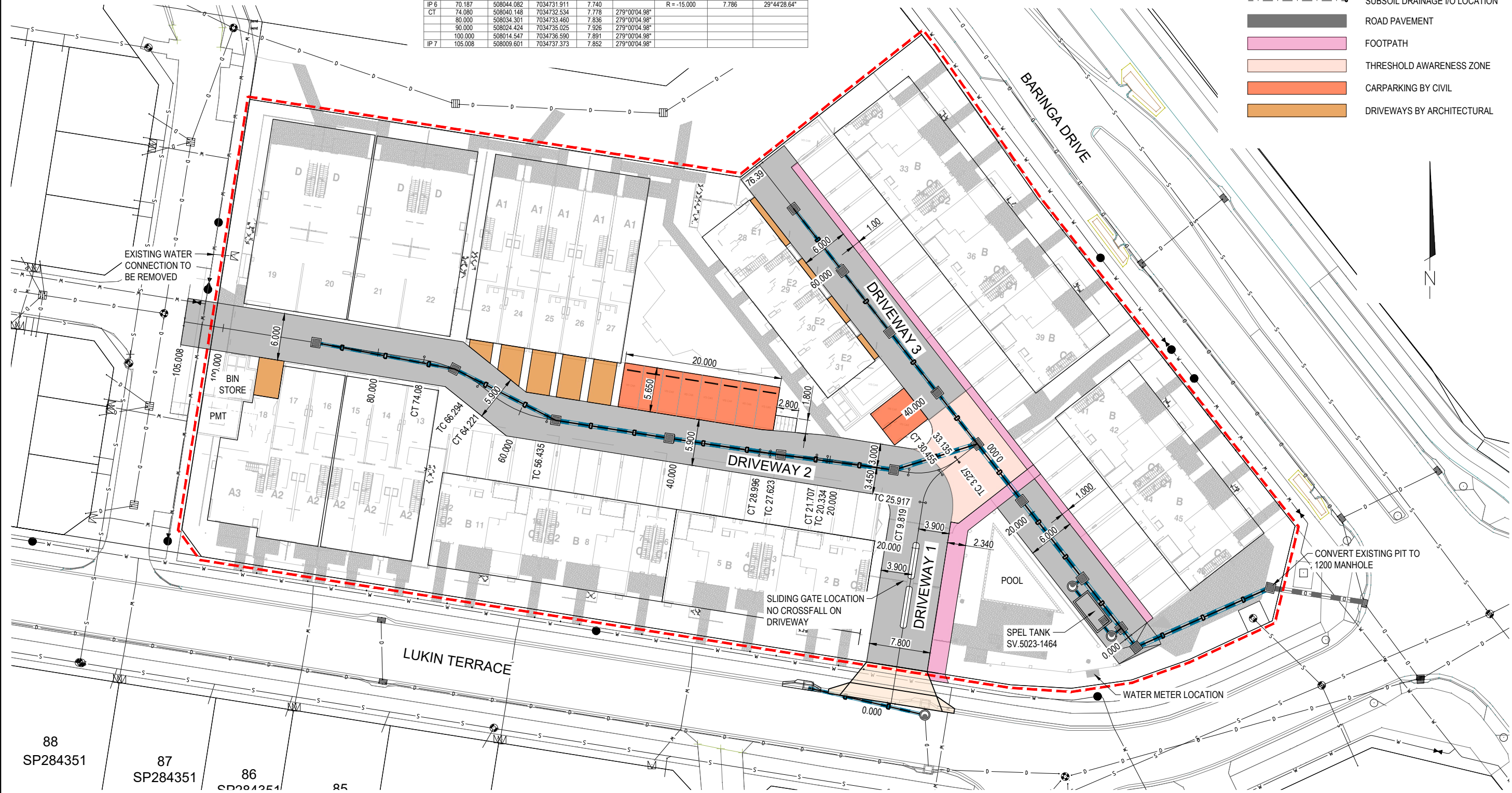
DRIVEWAY 1 CENTRELINE							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPiral	DEFL.ANGLE
IP 1	0.000	508099.690	7034688.760		8°59'59.57"		
TC	10.000	508101.255	7034698.637	7.201	8°59'59.57"		
IP 2	20.000	508102.819	7034708.514	7.208	8°59'59.57"		
TC	25.917	508103.745	7034714.358	7.154	8°59'59.57"		
IP 2	28.186	508104.117	7034716.712	7.133		R = 6.000	43°19'59.18"
TC	30.000	508105.855	7034717.878	7.117	47°59'22.77"		
CT	30.455	508106.004	7034718.169	7.113	52°19'58.75"		
IP 3	33.135	508108.126	7034719.807	7.088	52°19'58.75"		

DRIVEWAY 2 CENTRELINE							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPiral	DEFL.ANGLE
IP 1	0.000	508110.693	7034721.812	7.056	232°00'12.93"		
TC	3.257	508108.126	7034719.807	7.088	232°00'12.93"		
IP 2	6.538	508105.385	7034717.666	7.120		R = 8.000	46°59'46.64"
CT	9.819	508101.950	7034718.210	7.152	278°59'59.57"		
TC	10.000	508101.771	7034718.238	7.154	278°59'59.57"		
IP 3	20.000	508091.894	7034719.802	7.251	278°59'59.57"		
TC	20.334	508091.564	7034719.855	7.254	278°59'59.57"		
IP 3	21.020	508090.886	7034719.962	7.261		R = -20.000	3°55'58.42"
CT	21.707	508090.202	7034720.023	7.268	275°04'01.14"		
TC	27.623	508084.309	7034720.545	7.326	275°04'01.14"		
IP 4	28.310	508083.625	7034720.606	7.332		R = 20.000	3°55'58.43"
CT	28.996	508082.946	7034720.713	7.339	278°59'59.57"		
TC	30.000	508081.955	7034720.870	7.349	278°59'59.57"		
IP 5	40.000	508072.078	7034722.435	7.446	278°59'59.57"		
TC	50.000	508062.201	7034723.999	7.544	278°59'59.57"		
CT	56.435	508055.845	7034725.006	7.606	278°59'59.57"		
IP 5	60.000	508052.423	7034725.975	7.641	292°37'04.24"		
CT	60.328	508051.911	7034725.629	7.644		R = 15.000	29°44'34.06"
TC	64.221	508048.805	7034728.122	7.682	308°44'33.63"		
CT	66.294	508047.188	7034729.418	7.702	308°44'33.63"		
IP 6	70.000	508044.042	7034731.359	7.738	294°35'06.24"		
CT	70.187	508044.082	7034731.911	7.740		R = -15.000	29°44'28.64"
TC	74.080	508040.148	7034732.534	7.778	279°00'04.98"		
CT	80.000	508034.301	7034733.460	7.836	279°00'04.98"		
TC	90.000	508024.424	7034735.025	7.926	279°00'04.98"		
IP 7	100.000	508014.547	7034736.590	7.891	279°00'04.98"		
CT	105.008	508009.601	7034737.373	7.852	279°00'04.98"		

DRIVEWAY 3 CENTRELINE							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPiral	DEFL.ANGLE
IP 1	0.000	508129.937	7034697.180	6.900	321°59'59.58"		
TC	10.000	508123.781	7034705.060	6.950	321°59'59.58"		
IP 2	20.000	508117.624	7034712.940	7.000	321°59'59.58"		
TC	30.000	508111.467	7034720.820	7.050	321°59'59.58"		
IP 2	40.000	508105.311	7034728.701	7.100	321°59'59.58"		
TC	50.000	508099.154	7034736.581	7.150	321°59'59.58"		
IP 2	60.000	508092.998	7034744.461	7.200	321°59'59.58"		
TC	70.000	508086.841	7034752.341	7.250	321°59'59.58"		
IP 2	76.390	508082.907	7034757.376	7.282	321°59'59.58"		

LEGEND

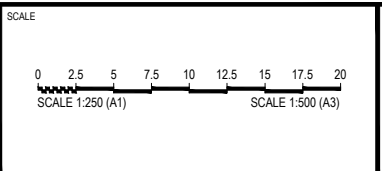
- WORKS EXTENT
- EXISTING STORMWATER DRAINAGE
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- EXISTING WATER RETICULATION
- PROPOSED ROAD CENTRELINE
- PROPOSED STORMWATER DRAINAGE
- PERMEABLE PAVEMENT SUBSOIL
- SUBSOIL DRAINAGE I/O LOCATION
- ROAD PAVEMENT
- FOOTPATH
- THRESHOLD AWARENESS ZONE
- CARPARKING BY CIVIL
- DRIVEWAYS BY ARCHITECTURAL



FILE: 21-000157-102.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: 21-000157-BASE, DA, 2, 2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 15-02-2021, 006-AS Con, 21-000157-BASE-DC-TURNPATH

FIRST	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
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E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT
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PROJECT
BARINGA LOT 8002

DISCLAIMER
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DRAWING TITLE
SURVEY SETOUT PLAN

PROJECT No. 21-000157
DRAWING No. 21-000157-102
REVISION F

EARTHWORKS NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL REMOVE ALL STRUCTURES, DEBRIS AND FENCES FROM THE SITE TO THE SATISFACTION OF THE SUPERINTENDENT.
3. EXISTING SURFACE IS TO BE CLEAR OF VEGETATION MATTER PRIOR TO THE START OF FILLING.
4. FILL IS TO BE OF GOOD QUALITY AND FREE OF UNSUITABLE MATERIAL.
5. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, THE FINISHED SURFACE LEVELS MAY BE ADJUSTED BY THE

WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION AFTER AMENDED DRAWINGS HAVE BEEN APPROVED BY COUNCIL.

6. ALL EXCAVATION AND FILLING SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF AS3798-2007 AND IN ACCORDANCE WITH THE CURRENT COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS.
7. LEVEL 1 CERTIFICATION IS REQUIRED ON ALL LOTS IN ACCORDANCE WITH AS3798-2007.
8. ALL DRAINAGE STRUCTURES ARE BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
9. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

EARTHWORKS VOLUMES

STRIP TOPSOIL (100mm) 797m³
CUT TO FILL 450m³ (UNCOMPACTED)
REMOVE FROM SITE 370m³

ASSUMES 100mm TOPSOIL STRIPPING
275mm ROAD BOX
250mm AT BUILDING SLABS
200m³ POOL EXCAVATION
50m³ TRENCH SPOIL

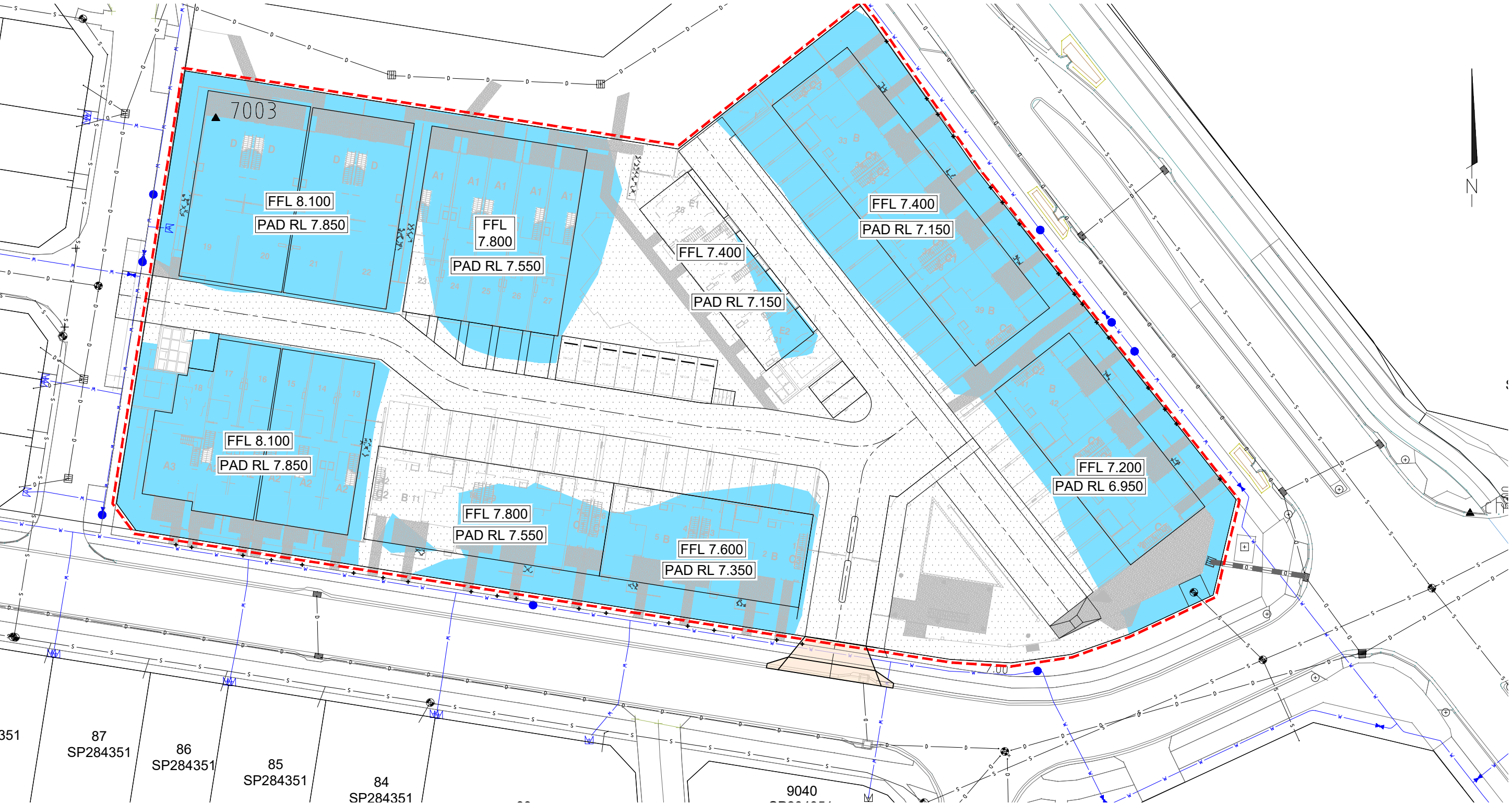
LEGEND

- PROPOSED WORKS BOUNDARY
- S

EXISTING SEWER
- D

EXISTING STORMWATER
- W

EXISTING WATER MAIN
- AREA OF CUT
- AREA OF FILL



FILE: 21-000157-103.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE: 21-000157-BASE, DA 2.2, DWG (S) LOT 8002 - GROUND LEVEL-03-08-2022, 21-000157-EVWS, 21-000157-BASE-DC-TURNPATH, 15-002215,006-AS-CON

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SCALE 1:500 (A3)

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PROJECT

BARINGA LOT 8002

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DRAWING TITLE

BULK EARTHWORKS LAYOUT PLAN

PROJECT No.

21-000157

DRAWING No.

21-000157-103

REVISION

F

ROADWORKS & DRAINAGE NOTES

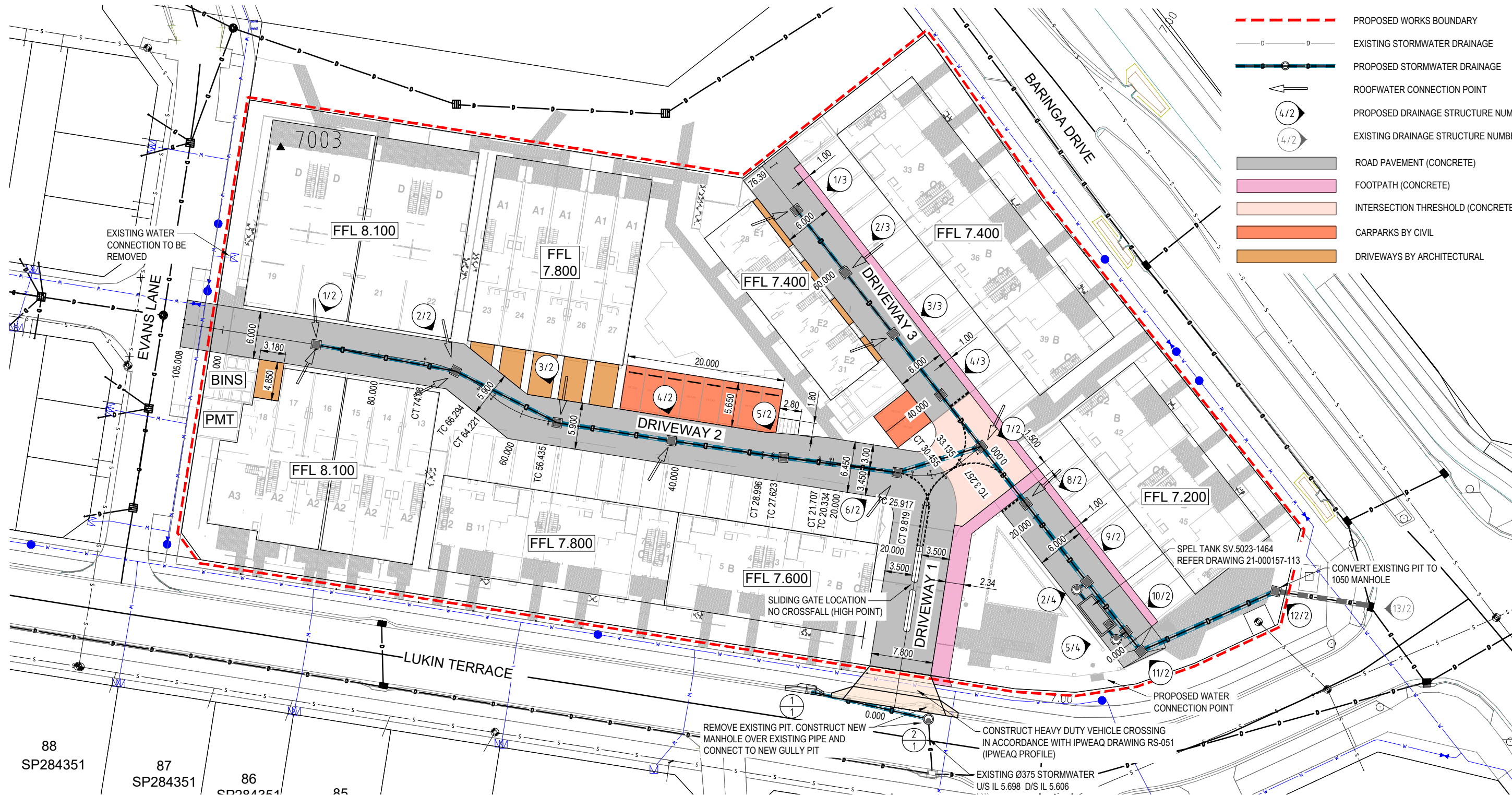
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
2. CONTRACTOR TO LIAISE WITH ALL THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
3. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF DEMOLISHING ANY EXISTING STRUCTURES WITHIN THE SITE AREAS.
4. NOT WITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS SHALL BE DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION AFTER AMENDED DRAWINGS HAVE BEEN APPROVED BY COUNCIL.

5. ALL ALLOTMENT FILL IS TO BE COMPACTED TO THE REQUIREMENTS OF AS3798-2007 AND IN ACCORDANCE WITH CURRENT SCC. SPECIFICATIONS.
6. VERGE AND BATTERS TO HAVE A MINIMUM OF 75mm TOPSOIL AND FULL WIDTH TURF IF ORDERED.
7. MATCH TO EXISTING AC PAVEMENT EXTENSION OR WIDENING TO BE IN ACCORDANCE WITH IPWEA STD DRG RS-170.
8. SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME FOR COUNCIL APPROVAL OF PAVEMENT DESIGN.
9. LEVELS FOR KERB AND CHANNELLING/EDGE OF PAVEMENT CONSTRUCTION ARE AT EQUAL INTERVALS AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.

10. SIDE DRAINS TO BE CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL AS PER SCC STANDARDS. REFER TO SCC STD DRG RS-140 FOR DETAILS.
11. ALL STORMWATER PIPES UNDER ROADWAYS AND FOOTPATHS SHALL BE CLASS '2' R.C.P.R.R.J. UNLESS NOTED OTHERWISE.
12. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY, AND THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES, IF NECESSARY, IN ACCORDANCE WITH A.S 3725-1989. AT THE CONTRACTORS COST.
13. ALL LOTS NOT DRAINING TO A PROPERTY PIT TO HAVE 2 KERB ADAPTORS . KERB ADAPTORS SHOWN ARE INDICATIVE ONLY AND ARE TO BE INSTALLED IN ACCORDANCE WITH SCC STD DRG RS-081.
14. CONCRETE FOOTPATHS TO BE INSTALLED BY THE CIVIL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO SCC STD DRG RS-065 FOR CONSTRUCTION DETAILS.

LEGEND

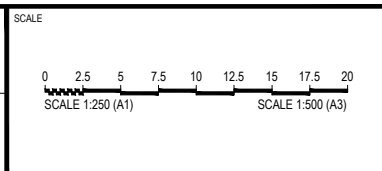
- PROPOSED WORKS BOUNDARY
- EXISTING STORMWATER DRAINAGE
- PROPOSED STORMWATER DRAINAGE
- ROOFWATER CONNECTION POINT
- 4/2 PROPOSED DRAINAGE STRUCTURE NUMBER
- 4/2 EXISTING DRAINAGE STRUCTURE NUMBER
- ROAD PAVEMENT (CONCRETE)
- FOOTPATH (CONCRETE)
- INTERSECTION THRESHOLD (CONCRETE)
- CARPARKS BY CIVIL
- DRIVEWAYS BY ARCHITECTURAL



FILE: 21-000157-104.dwg DATE: 18-03-2019 USER: WESLEY.PIKE
XREFS: 21-000157-BASE_DA_2.2.DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 21-000157-BASE-DC-TURNPATH, 15-002215-006-AS Con

FIRST ISSUE	DESIGN				DATE	AMENDMENT DETAILS
	DESIGN	DRAWN	CHECK	APPROVED		
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	13.12.21	AMENDED LAYOUT
E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT
					09.08.22	AMENDED LAYOUT

STATUS		APPROVAL ISSUE	
APPROVED	BY: SHAWN PILCHER 14593	SIGN: <i>Shawn Pilcher</i>	DATE: 31.05.22



CLIENT

STOCKLAND DEVELOPMENTS PTY LTD

Stockland

Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522

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PROJECT

BARINGA LOT 8002

DISCLAIMER
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DRAWING TITLE

ROADS AND DRAINAGE LAYOUT PLAN

PROJECT No. 21-000157 DRAWING No. 21-000157-104 REVISION F

DATUM R.L.4.000

ROAD GRADING

CUT (-) \ FILL (+)

LHS LIP LEVEL

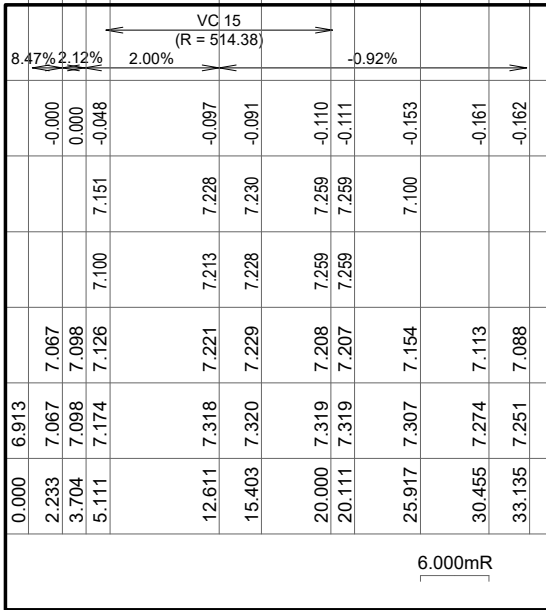
RHS LIP LEVEL

DESIGN

EXISTING
SURFACE

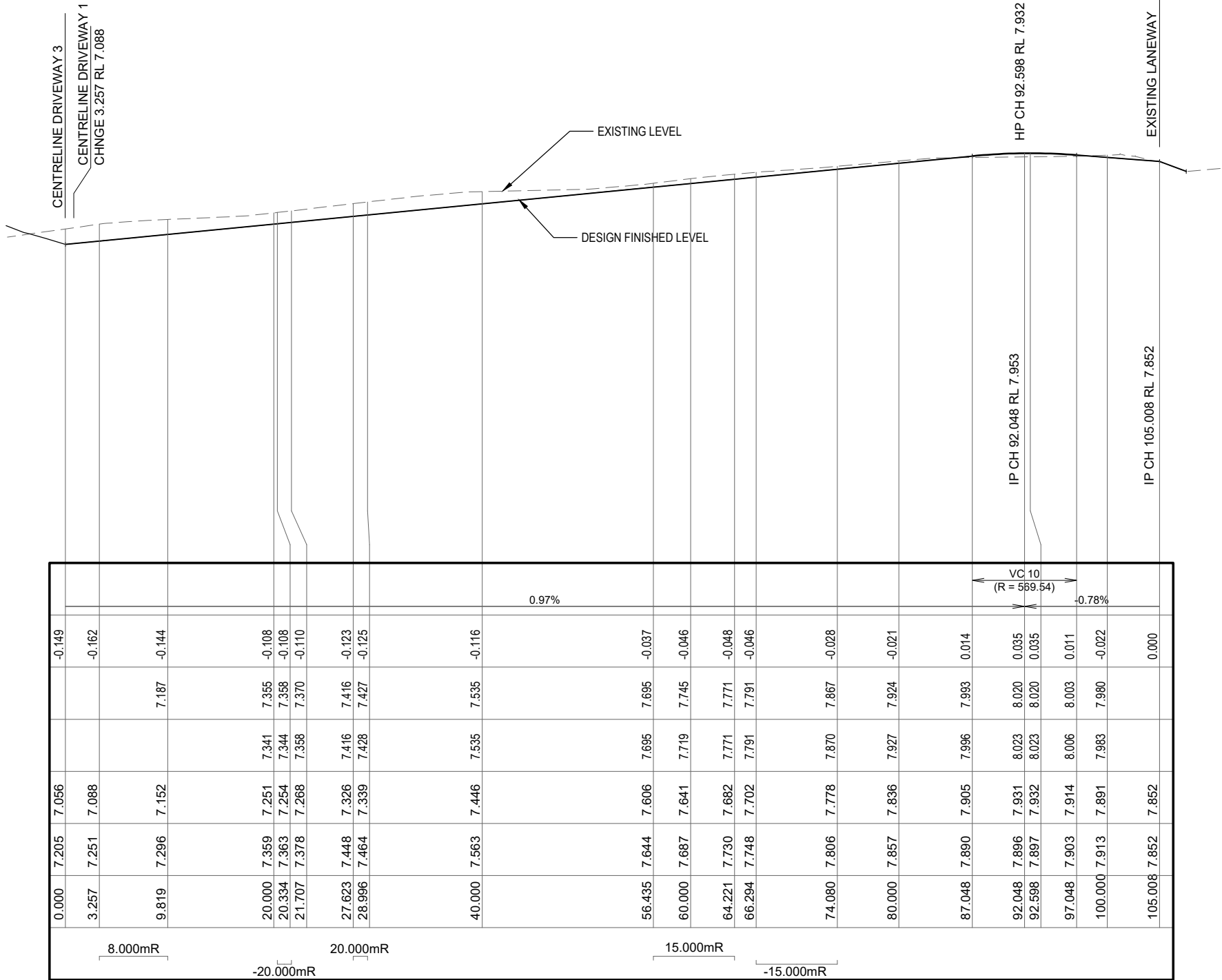
CHAINAGES

HORIZONTAL ALIGNMENT



DRIVEWAY 1 LONGITUDINAL SECTION

HORIZ SCALE: 250
VERTICAL SCALE: 25



DRIVEWAY 2 LONGITUDINAL SECTION

HORIZ SCALE: 250
VERTICAL SCALE: 25

FILE: 21-000157-105.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
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B	WP	WP	SP	SP	21.10.21	TENDER ISSUE
C	WP	WP	SP	SP	13.12.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	05.05.22	AMENDED LAYOUT
E	WP	WP	SP	SP	12.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	09.08.22	AMENDED LAYOUT

STATUS	
APPROVAL ISSUE	
APPROVED	
BY: SHAWN PILCHER 14593	
SIGN: <i>Shawn Pilcher</i>	DATE: 31.05.22

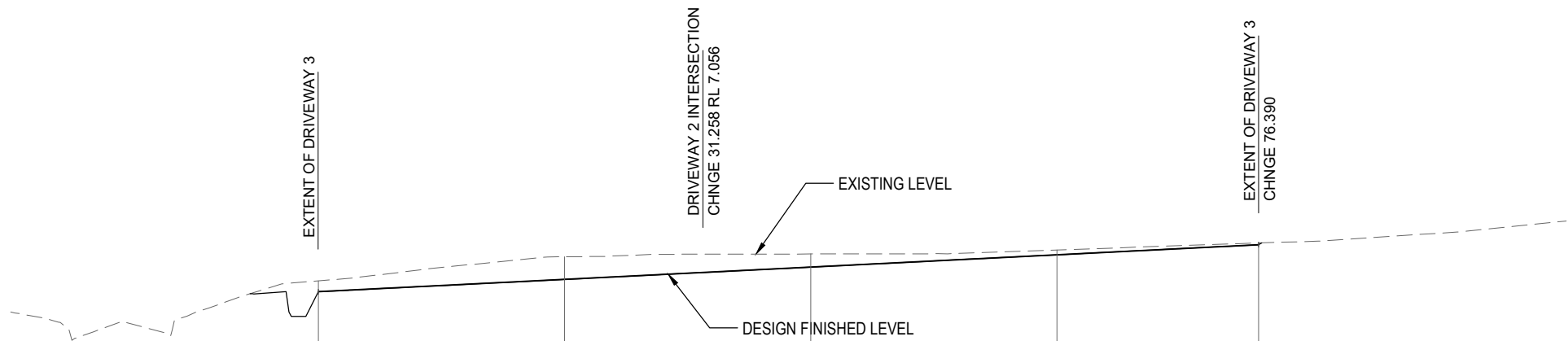
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CLIENT	
STOCKLAND DEVELOPMENTS PTY LTD	

PROJECT	
BARINGA LOT 8002	
Calibre Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522	

PROJECT	
BARINGA LOT 8002	
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.	

DRAWING TITLE	
ROAD LONGITUDINAL SECTIONS SHEET 1 OF 2	
PROJECT No. 21-000157	DRAWING No. 21-000157-105
REVISION F	



DATUM R.L.4.000

ROAD GRADING	0.50%					
CUT (-) \ FILL (+)	-0.088	-0.184	-0.107	-0.039	-0.014	
LHS LIP LEVEL	6.990	7.090	7.190	7.290	7.784	
RHS LIP LEVEL	6.904	7.090	7.190	7.290	7.784	
DESIGN	6.900	7.000	7.100	7.200	7.282	
EXISTING SURFACE	6.988	7.184	7.207	7.239	7.296	
CHAINAGES	0.000	20.000	40.000	60.000	76.390	
HORIZONTAL ALIGNMENT						

DRIVEWAY 3 LONGITUDINAL SECTION

HORIZ SCALE: 250
VERTICAL SCALE: 25

FILE: 21-000157-106.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
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F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT
					09.08.22	AMENDED LAYOUT

STATUS	
APPROVAL ISSUE	
APPROVED	
BY: SHAWN PILCHER 14593	
SIGN: <i>Shawn Pilcher</i>	DATE: 31.05.22

SCALE	
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	SCALE 1:50 (A3)

CLIENT	
STOCKLAND DEVELOPMENTS PTY LTD	

PROJECT	
Calibre Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522	

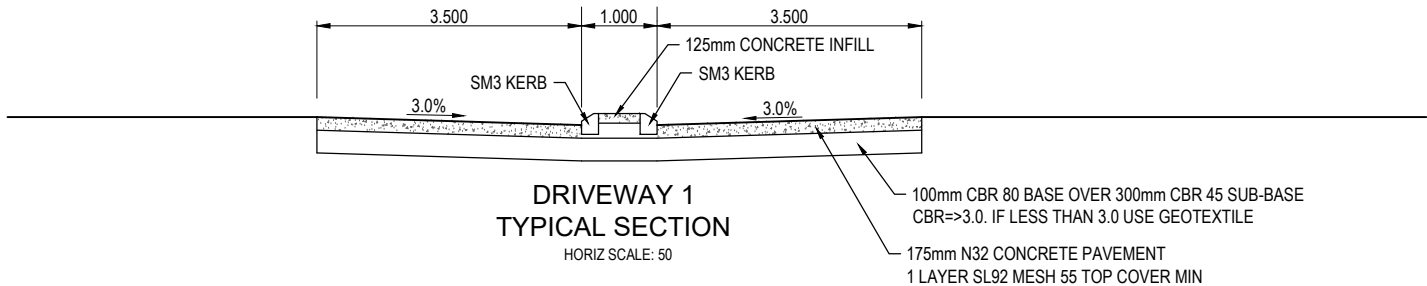
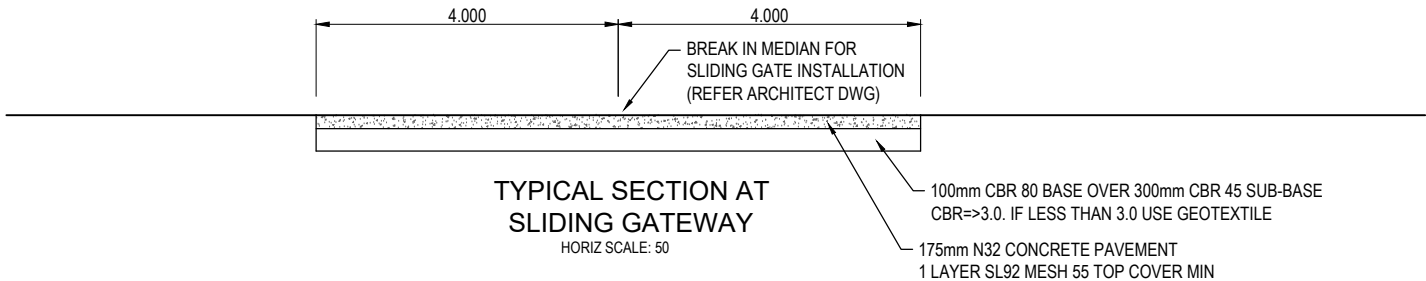
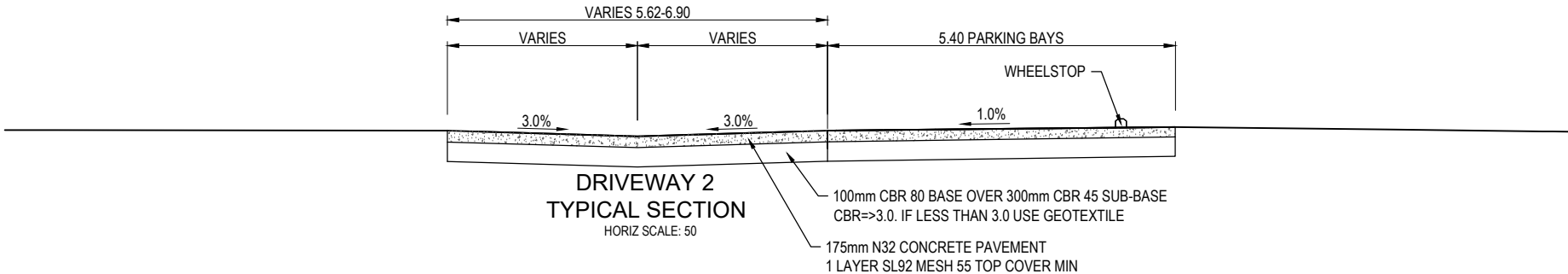
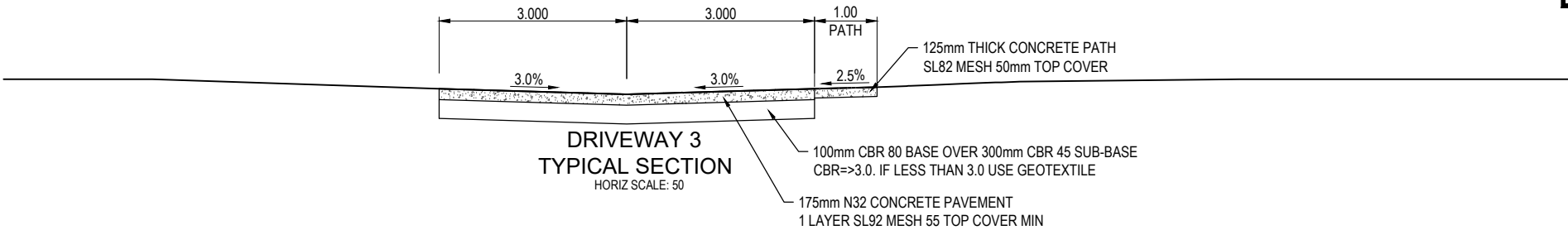
PROJECT	
BARINGA LOT 8002	
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.	

DRAWING TITLE		
ROAD LONGITUDINAL SECTIONS SHEET 2 OF 2		
PROJECT No. 21-000157	DRAWING No. 21-000157-106	REVISION F

MINIMUM PAVEMENT DESIGN

ROAD	TRAFFIC ESA's	SURFACING (mm)	BASE (mm) (CBR 80) (TYPE 2.1)	SUB BASE (mm) (CBR 45) (TYPE 2.5)	SUBGRADE REPLACEMENT (mm) (CBR 15)	TOTAL BOX (mm)	STREET CLASSIFICATION
DRIVEWAY	5.0 X 10 ⁴	# 175 CONC	100	300		575	LANEWAY/DRIVEWAY

NOTE
175 CONCRETE SL92 MESH 55mm TOP COVER MIN



FILE: 21-000157-107.dwg DATE: 17-09-2021 USER: WESLEY PIKE
XREFS: 21-000157-BASE, Lot 8002 OVERALL SITE PLAN, 15-002215-006-AS Con

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL
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E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT
					09.08.22	

STATUS	APPROVAL ISSUE
APPROVED	BY: SHAWN PILCHER 14593
SIGN:	DATE: 31.05.22

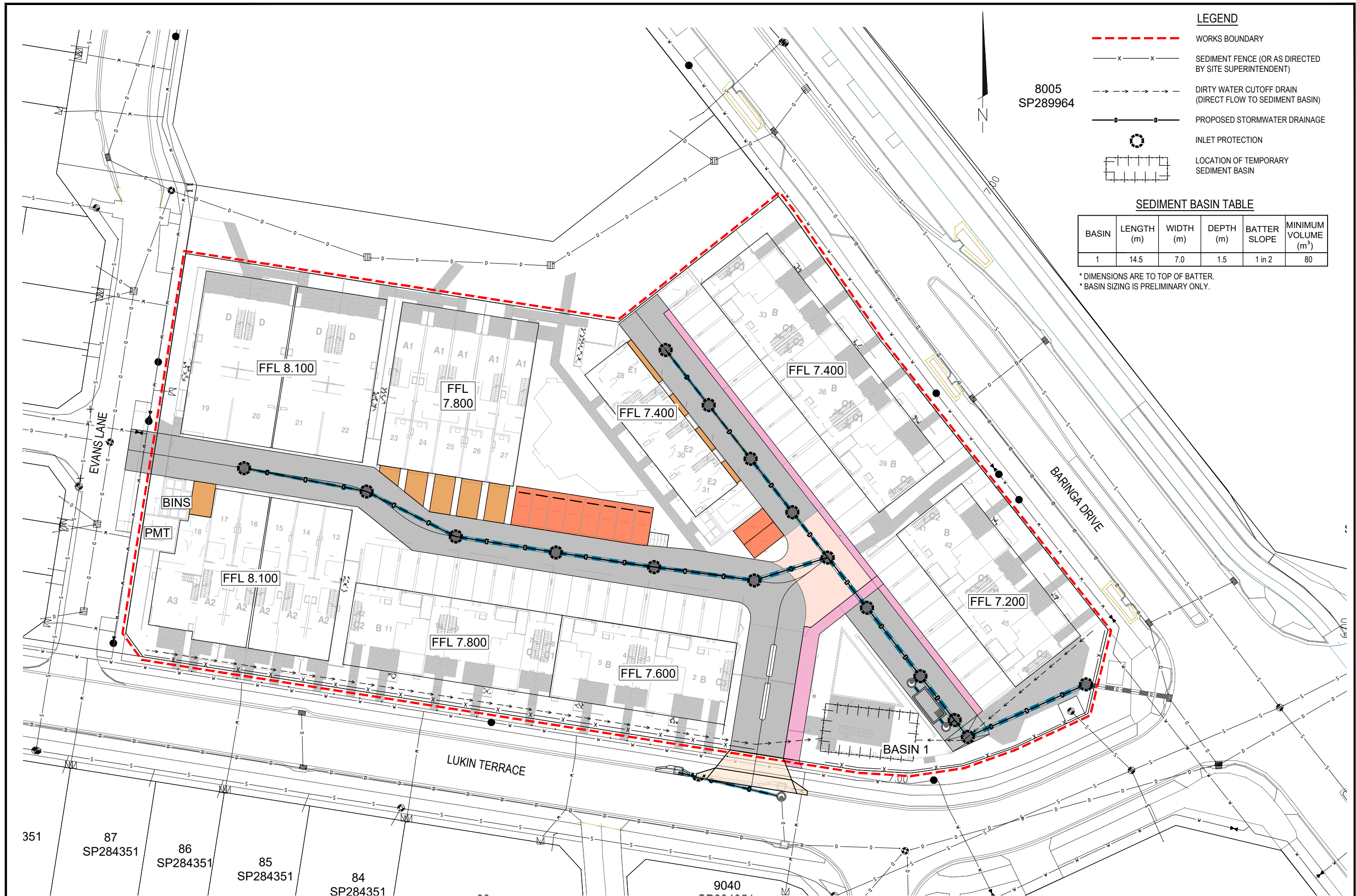
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CLIENT	STOCKLAND DEVELOPMENTS PTY LTD

	Calibre Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522
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PROJECT	
DISCLAIMER	ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

DRAWING TITLE	TYPICAL SECTIONS
PROJECT No.	21-000157
DRAWING No.	21-000157-107
REVISION	F



LEGEND

- WORKS BOUNDARY
- SEDIMENT FENCE (OR AS DIRECTED BY SITE SUPERINTENDENT)
- DIRTY WATER CUTOFF DRAIN (DIRECT FLOW TO SEDIMENT BASIN)
- PROPOSED STORMWATER DRAINAGE
- INLET PROTECTION
- LOCATION OF TEMPORARY SEDIMENT BASIN

8005
SP289964

SEDIMENT BASIN TABLE

BASIN	LENGTH (m)	WIDTH (m)	DEPTH (m)	BATTER SLOPE	MINIMUM VOLUME (m³)
1	14.5	7.0	1.5	1 in 2	80

* DIMENSIONS ARE TO TOP OF BATTER.
* BASIN SIZING IS PRELIMINARY ONLY.

FILE: 21-000157-108.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE: 21-000157-BASE, DA 2.2, DWG (S) LOT 8002 - GROUND LEVEL-03-08-2022, 15-002215-006-AS Con, 21-000157-BASE-DC-TURNPATH

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
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					09.08.22	AMENDED LAYOUT

STATUS

APPROVAL ISSUE

APPROVED BY: SHAWN PILCHER 14593

SIGN: *Shawn Pilcher* DATE: 31.05.22

SCALE

0 2.5 5 7.5 10 12.5 15 17.5 20

SCALE 1:250 (A1) SCALE 1:500 (A3)

CLIENT

STOCKLAND DEVELOPMENTS PTY LTD

Stockland

calibre

Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522

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PROJECT

BARINGA LOT 8002

DISCLAIMER
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DRAWING TITLE

EROSION AND SEDIMENT CONTROL LAYOUT PLAN

PROJECT No. 21-000157 DRAWING No. 21-000157-108 REVISION F

GENERAL NOTES

1. THIS DESIGN FOR EROSION AND SEDIMENT CONTROL IS CONCEPTUAL ONLY. THE CONTRACTOR SHALL MODIFY OR INSTALL ADDITIONAL/ ALTERNATIVE MEASURES DURING THE CONSTRUCTION AND MAINTENANCE PERIOD IN ORDER TO COMPLY WITH BEST PRACTICE STANDARDS IN ACCORDANCE WITH BUT NOT LIMITED TO CALIBRE CONSULTING'S SPECIFICATION 17 , THE MANUAL FOR EROSION AND SEDIMENT CONTROL (V1.2) AND ALL STATUTORY REQUIREMENTS.
2. PRESCRIBED WATER CONTAMINANTS (AS DEFINED IN THE ENVIRONMENTAL PROTECTION ACT 1994) MUST NOT BE RELEASED FROM THE SITE, OR BE LIKELY TO BE RELEASED SHOULD RAINFALL OCCUR, UNLESS ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT OR MINIMISE THE RELEASE AND CONCENTRATION OF CONTAMINATION. THESE MEASURES MUST INCLUDE AS A MINIMUM, BUT ARE NOT LIMITED TO, THE FOLLOWING:

A. ENSURE NON ESSENTIAL EXPOSURE OF SOIL IS PREVENTED BY: RESTRICTING THE EXTENT OF CLEARING TO THAT NECESSARY FOR ACCESS TO, AND SAFE CONSTRUCTION OF, THE APPROVED WORKS; PROTECTING VEGETATION IN ALL OTHER AREAS OF THE SITE; AND BY MINIMISING THE DURATION OF SOIL EXPOSURE BY:

• STAGING THE WORKS TO MINIMISE THE AREA OF SOIL EXPOSED AT ANY ONE TIME;

• EFFECTIVELY STABILISING CLEARED AREAS PRIOR TO RAINFALL IF WORKS ARE DELAYED OR WORKS ARE NOT INTENDED TO OCCUR IMMEDIATELY. SEE E&SC ADVICE NOTE 1;

• EFFECTIVELY STABILISING AREAS AT FINISHED LEVEL WITHOUT DELAY AND PRIOR TO RAINFALL; AND

• EFFECTIVELY STABILISING STEEP AREAS, SUCH AS STOCKPILES, BATTERS AND EMBANKMENTS, WHICH ARE NOT BEING ACTIVELY WORKED AND PRIOR TO RAINFALL.

B. WHERE IT IS NOT FEASIBLE TO EFFECTIVELY STABILISE CLEARED AREAS OF EXPOSED SOIL, SUCH AS AREAS BEING ACTIVELY WORKED, IMPLEMENT A FULL SUITE OF EROSION AND SEDIMENT CONTROLS TO MAXIMISE SEDIMENT CAPTURE IN THOSE AREAS AND TO MINIMISE EROSION SUCH THAT EROSION BY ALL FORMS OTHER THAN SPLASH (RAINDROP IMPACT) EROSION AND SHEET EROSION DOES NOT OCCUR; AND

C. IN AREAS OF EXPOSED SOIL WHERE IT IS NOT FEASIBLE TO EITHER EFFECTIVELY STABILISE THE SURFACE OR IMPLEMENT A FULL SUITE OF EROSION AND SEDIMENT CONTROLS, FOR EXAMPLE IN THE AREAS BEING ACTIVELY WORKED AND WHERE THE IMPLEMENTATION OF SOME EROSION AND SEDIMENT CONTROLS WOULD IMPEDE CONSTRUCTION ACTIVITIES, ENSURE CONTINGENCY MEASURES ARE AVAILABLE ON SITE AND ARE IMPLEMENTED, PRIOR TO RAIN, TO MAXIMISE SEDIMENT CAPTURE AND TO MINIMISE EROSION SUCH THAT EROSION BY ALL FORMS OTHER THAN SPLASH (RAINDROP IMPACT) EROSION AND SHEET EROSION DOES NOT OCCUR

D. EFFECTIVELY STABILISE ALL STOCKPILES, BATTERS AND EMBANKMENTS WITHOUT DELAY. WHERE IT IS NOT FEASIBLE TO EFFECTIVELY STABILISE A STOCKPILE, BATTER OR EMBANKMENT, SUCH AS AREAS BEING ACTIVELY WORKED, ENSURE THAT SEDIMENT CONTROLS ARE INSTALLED AND SURFACE STORMWATER FLOWS ARE MANAGED SUCH THAT EROSION OF STOCKPILES, BATTERS OR EMBANKMENTS IS NOT CAUSED BY CONCENTRATED STORMWATER FLOWS.

E. ENSURE CLEAN STORMWATER IS DIVERTED OR MANAGED AROUND OR THROUGH THE SITE WITHOUT INCREASING THE CONCENTRATION OF TOTAL SUSPENDED SOLIDS OR OTHER CONTAMINANTS IN THE FLOW AND WITHOUT CAUSING EROSION (ON SITE OR OFF SITE). IF IT IS NOT FEASIBLE TO DIVERT ALL AREAS DISCHARGING CLEAN STORMWATER AROUND OR THROUGH THE SITE, MANAGE THE CLEAN STORMWATER RUNOFF AS FOR CONTAMINATED STORMWATER RUNOFF, AND ENSURE THAT SEDIMENT BASINS ARE SIZED TO ACCOMMODATE THE ADDITIONAL VOLUME OF RUNOFF (SEE E&SC ADVICE NOTE 2).

F. ENSURE SHEET FLOWS OF STORMWATER ARE MANAGED SUCH THAT SHEET AND RILL EROSION IS PREVENTED OR MINIMISED.

G. ENSURE THAT ALL CONCENTRATED STORMWATER FLOWS INCLUDING DRAINAGE LINES, DIVERSION DRAINS, CHANNELS AND BATTER CHUTES ARE MANAGED ONTO, THROUGH, AND AT RELEASE POINTS FROM THE SITE IN ALL RAIN EVENTS UP TO AND INCLUDING THE AVERAGE RECURRENCE INTERVAL (ARI) EVENT OF 1 IN 2 YEAR ARI WITHOUT CAUSING WATER CONTAMINATION, SHEET, RILL OR GULLY EROSION, SEDIMENTATION, OR DAMAGE TO STRUCTURES OR PROPERTY

H. ENSURE MEASURES HAVE BEEN IMPLEMENTED SUCH THAT THE RUNOFF FROM ALL DISTURBED AREAS FLOWS TO A SEDIMENT BASIN OR BASINS. WHERE IT IS NOT FEASIBLE TO DIVERT RUNOFF FROM DISTURBED AREAS OF THE SITE TO A SEDIMENT BASIN, IMPLEMENT COMPENSATORY EROSION AND DRAINAGE CONTROLS PRIOR TO RAINFALL TO ENSURE THAT EROSION OF THOSE AREAS DOES NOT OCCUR, INCLUDING EROSION CAUSED BY EITHER SPLASH (RAINDROP IMPACT), SHEET, RILL OR GULLY EROSION PROCESSES (SEE E&SC ADVICE NOTE 3).

I. ENSURE EACH SEDIMENT BASIN HAS THE CAPACITY TO TREAT FLOWS TO CURRENT BEST PRACTICE STANDARDS (SEE E&SC ADVICE NOTE 4) AND AS A MINIMUM TO CONTAIN ALL THE STORMWATER RUNOFF FROM THE 80TH PERCENTILE 5 DAY RAINFALL DEPTH AND STORE 2 MONTHS SEDIMENT FROM THE RECEIVING CATCHMENT, AS DETERMINED USING THE REVISED UNIVERSAL SOIL LOSS EQUATION.
- J. ENSURE SEDIMENT BASINS ARE MAINTAINED WITH SUFFICIENT STORAGE CAPACITY TO CAPTURE AND TREAT THE RUNOFF FOR THE DESIGN RAINFALL DEPTH OR EVENT. WHERE SEDIMENT BASINS ARE PROPOSED TO BE OVERSIZED FOR STORAGE OF CAPTURED WATER FOR RE-USE, INSTALL SURVEY MARKERS IN EACH SUCH BASIN TO INDICATE THE LEVEL THAT WATER WITHIN THE BASIN MUST BE LOWERED TO, IN ORDER TO MEET THE STORAGE CAPACITY SPECIFIED IN THE ABOVE REQUIREMENT.

K. ENSURE SEDIMENT BASINS ARE DEWATERED AS SOON AS PRACTICABLE AFTER EACH RAINFALL EVENT.

L. ENSURE THAT DURING DEWATERING, THE CONCENTRATION OF TOTAL SUSPENDED SOLIDS (TSS) DISCHARGED DOES NOT EXCEED 50MG/L AND THAT PH IS WITHIN THE RANGE OF 6.5-8.5. THE CONCENTRATION OF TSS RELEASED BY DEWATERING MAY ONLY EXCEED 50MG/L WHERE IT CAN BE DEMONSTRATED AND SUPPORTED THROUGH DOCUMENTATION THAT:

• FURTHER SIGNIFICANT RAINFALL IS FORECAST TO OCCUR BEFORE THE TSS CONCENTRATION IS LIKELY TO BE REDUCED TO 50MG/L ; AND

• RELEASING A HIGHER CONCENTRATION OF TOTAL SUSPENDED SOLID WILL RESULT IN A BETTER ENVIRONMENTAL OUTCOME BY PROVIDING STORAGE FOR THE CAPTURE AND TREATMENT OF RUNOFF FROM THE IMMINENT RAINFALL AND RUNOFF; AND

• FLOCCULENT HAS BEEN APPLIED AND THE CONCENTRATION OF TSS IN THE CAPTURED WATER HAS ALREADY SIGNIFICANTLY DECREASED.

M. ENSURE SEDIMENT BASINS AND ASSOCIATED STRUCTURES SUCH AS INLETS, OUTLETS AND SPILLWAYS ARE STRUCTURALLY SOUND FOR 10 YEAR ARI RAINFALL EVENT.

N. ENSURE ACCUMULATED SEDIMENT FROM BASINS AND OTHER CONTROLS IS REMOVED AND DISPOSED OF APPROPRIATELY WITHOUT CAUSING WATER CONTAMINATION.

O. ENSURE SEDIMENT DOES NOT LEAVE THE SITE ON THE TYRES OF VEHICLES.

3. THE ENVIRONMENTAL PROTECTION ACT 1994 STATES THAT A PERSON MUST NOT CARRY OUT ANY ACTIVITY THAT CAUSES, OR IS LIKELY TO CAUSE, ENVIRONMENTAL HARM UNLESS THAT PERSON TAKES ALL REASONABLE AND PRACTICAL MEASURES TO PREVENT OR MINIMISE THE HARM. ENVIRONMENTAL HARM INCLUDES ENVIRONMENTAL NUISANCE. IN REGARD PERSONS AND ENTITIES, INVOLVED IN THE CIVIL, EARTHWORKS AND CONSTRUCTION PHASES OF THIS DEVELOPMENT, ARE TO ADHERE TO THEIR 'GENERAL ENVIRONMENTAL DUTY' TO MINIMISE THE RISK OF CAUSING ENVIRONMENTAL HARM.

ENVIRONMENTAL; HARM IS DEFINED BY THE ACT AS ANY ADVERSE AFFECT, OR POTENTIAL ADVERSE AFFECT WHETHER TEMPORARY OR PERMANENT AND OF WHATEVER MAGNITUDE, DURATION OR FREQUENCY ON AN ENVIRONMENTAL VALUE AND INCLUDES ENVIRONMENTAL NUISANCE. THEREFORE, NO PERSON SHOULD CAUSE ANY INTERFERENCE WITH THE ENVIRONMENT OR AMENITY OF THE AREA BY REASON OF THE EMISSION OF NOISE, VIBRATION, SMELL, FUMES, SMOKE, VAPOR, STEAM, SOOT , ASH, DUST, WASTE WATER, WASTE PRODUCTS, GRIT, SEDIMENT, OIL OR OTHERWISE, OR CAUSE HAZARDS LIKELY IN THE OPINION OF THE ADMINISTERING AUTHORITY TO CAUSE UNDUE DISTURBANCE OR ANNOYANCE TO PERSONS OR AFFECT PROPERTY NOT CONNECTED WITH THE USE.

4. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.

5. WHERE IT IS REQUIRED TO SLASH EXISTING VEGETATION EITHER PRIOR TO THE COMMENCEMENT OF WORKS, DURING THE CONSTRUCTION WORKS AND / OR DURING THE MAINTENANCE PERIOD, SAID VEGETATION SHALL BE SLASHED TO A MINIMUM HEIGHT OF 75mm TO ASSIST WITH THE RETENTION OF SOILS ON SITE (I.E. ASSIST IN THE PREVENTION OF EROSION).

6. WHERE THE EXISTING VEGETATION WITHIN THE PROPOSED LOTS AND / OR PARKLAND IS DISTURBED AS A RESULT OF THE CONSTRUCTION WORKS, SAID EARTHWORKS ARE TO BE TOPSOILED AND EFFECTIVELY STABILISED WITHIN FIVE (5) DAYS, (EARLIER IF RAIN EXPECTED) OF FINAL ALLOTMENT EARTHWORKS. AN EFFECTIVELY STABILISED SURFACE IS DEFINED AS ONE THAT DOES NOT HAVE

• VISIBLE EVIDENCE OF SOIL LOSS CAUSED BY SHEET, RILL OR GULLY EROSION OR

• LEAD TO SEDIMENTATION, OR

• LEAD TO WATER CONTAMINATION.

7. ALL CONSTRUCTION VEHICLES ARE TO ACCESS THE SITE VIA A SINGLE POINT OF ACCESS; THE POINT OF ACCESS, TOGETHER WITH THE MEASURES TO BE IMPLEMENTED, ARE TO BE AGREED WITH COUNCIL'S DESIGNATED REPRESENTATIVE ON SITE. THE PRINCIPLE AIM OF THE MEASURE(S) TO BE IMPLEMENTED IS / ARE TO LIMIT THE TRACKING OF DELETERIOUS MATERIALS ONTO THE SURROUNDING ROAD NETWORK.
8. THE CONTRACTOR SHALL PROVIDE GULLY INLET PROTECTION TO ALL GULLY INLET STRUCTURES LOCATED, DIRECTLY DOWNSTREAM OF THE PROPOSED DEVELOPMENT WORKS.

9. APPROPRIATE PROVISIONS ARE TO BE PROVIDED TO THE INTERFACE BETWEEN THE EXISTING ROADWAY PAVEMENTS AND THE NEW ROADWORK'S CONSTRUCTION. THE PROVISIONS SHALL ADDRESS WORKPLACE HEALTH AND SAFETY CONCERNS (I.E. RESTRICTING ACCESS BY THE GENERAL PUBLIC TO THE SITE).

10. THE LOCATION OF THE CONSTRUCTION VEHICLE COMPOUND, SITE OFFICE AND THE VEHICLE SERVICING AREA SHALL BE AGREED WITH COUNCIL'S DESIGNATED REPRESENTATIVE ON SITE, PRIOR TO THE COMMENCEMENT OF WORKS.

11. CLEARED VEGETATION IS TO NOT BE BURNED ON SITE, ALL VEGETATIVE WASTE(S) SHALL BE MULCHED AND THEREAFTER RETAINED ON SITE FOR USE AS PART OF THE EROSION AND SEDIMENTATION CONTROL STRATEGY OR THE LANDSCAPING / REVEGETATION WORKS. ALL STUMPS AND / OR OTHER ORGANIC MATTER NOT SUITABLE FOR MULCHING SHALL BE DISPOSED OF AT AN APPROVED WASTE DISPOSAL FACILITY.

12. SEDIMENT FENCE AND TURFING RUNNING DOWNSLOPES SHALL HAVE REGULAR FLOW DISSIPATERS AT 45° TO SLOPE AS DIRECTED CONSISTING OF SAND BAGS OR SIMILAR AS REQUIRED.

13. DURING THE CONSTRUCTION PROCESS INCLUDING THAT PERIOD DURING WHICH THE WORKS ARE 'ON MAINTENANCE' SHOULD COUNCIL'S DESIGNATED REPRESENTATIVE REQUEST ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BE IMPLEMENTED, SAID MEASURES SHALL BE IMPLEMENTED AT THE EARLIEST TIME POSSIBLE. NOTWITHSTANDING THE ABOVE REQUIREMENT ANY MEASURES REQUESTED TO BE IMPLEMENTED BY COUNCIL'S DESIGNATED REPRESENTATIVE SHALL BE IMPLEMENTED WITHIN 24 HOURS OF THE TIME OF THE REQUEST.

14. ALL ROOFWATER / SEWER RETICULATION TRENCHES EITHER ADJACENT TO EXISTING DEVELOPMENT OR PERPENDICULAR TO THE CROSSFALL OF THE LAND ARE TO BE TOPSOILED (75mm MINIMUM) AND TURFED. FOR A MINIMUM 900mm WIDTH.

15. THE CONTRACTOR SHALL CONSTRUCT LINED CUTOFF DRAINS IN WORK AREAS SO AS TO LIMIT SLOPE LENGTHS TO A MAXIMUM OF 80M.

16. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO RELEASE OR FLOW IS PERMITTED FROM THE SITE, THROUGHOUT THE EARTHWORKS AND CONSTRUCTION PERIOD TO ANY WATER WAYS OR STORMWATER DRAINLINES LEADING TO A WATERWAY OR AREA OF NATIVE VEGETATION UNLESS THE LEVELS OF TOTAL SUSPENDED SOLIDS DOES NOT EXCEED A CONCENTRATION OF 50 MGL.

17. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%.

18. ALL PERIMETER BANK/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.

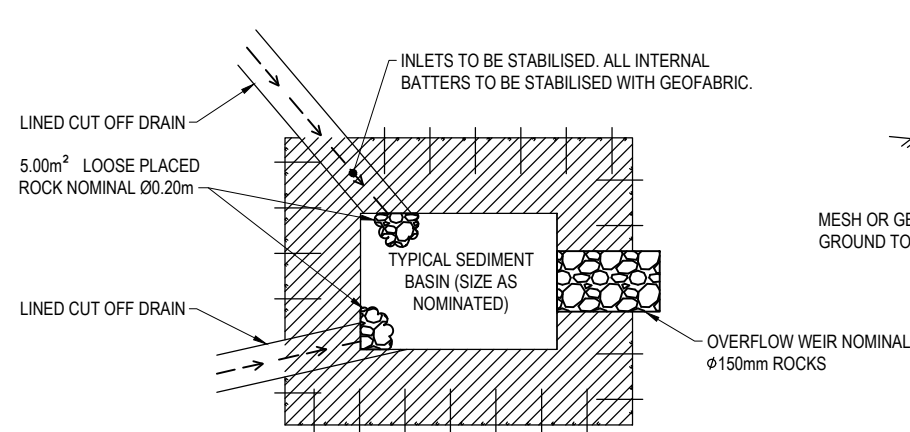
19. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT OR STABILISE ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS.

20. CLEARING OF SITE AND STOCK PILE AREAS TO BE AS DIRECTED BY THE SUPERINTENDENT.

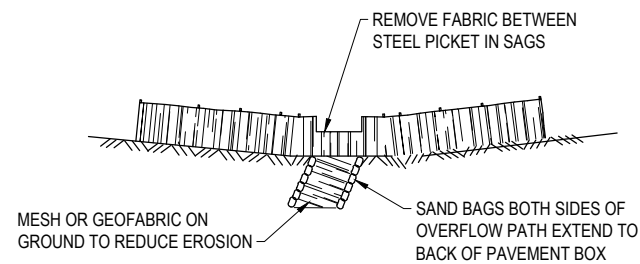
21. WHERE PRACTICAL THE CONTRACTOR SHALL DIVERT CLEAN WATER ENTERING THE SITE FROM EXTERNAL CATCHMENT(S) AND DIRECTED TO THE STORMWATER SYSTEM. THIS DISCHARGE POINT SHOULD BE ROCK LINED. REGULAR ROCK CHECK DAMS SHOULD BE POSITIONED ALONG THE VEGETATED DRAINAGE LINE LEADING TO THIS DISCHARGE POINT.

22. REGULAR INSPECTIONS AND MAINTENANCE OF VEHICLE WASHDOWN AREA, SITE AND STORAGE COMPOUND TO BE CARRIED OUT BY CONTRACTOR.

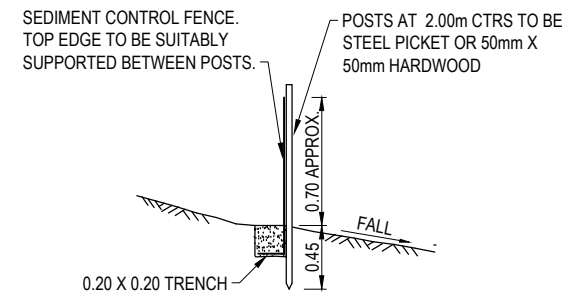
23. AREAS USED FOR STORAGE OF CHEMICALS USED FOR CONSTRUCTION PURPOSES SHALL HAVE STORMWATER CONTROL DEVICES ERECTED ADJACENT TO THEM (I.E. EARTH BUND AND SEDIMENT FENCES). UPON COMPLETION OF ROADWORKS WASTE PRODUCTS ARE TO BE DISPOSED OF AS PER LOCAL AUTHORITY GUIDELINES AND TEMPORARY DEVICES ARE TO BE REMOVED AND AREA REHABILITATED.
- FILE: 21-000157-109.dwg DATE: 18-03-2019 USER: WESLEY.PIKE
XREFS: X-20-000315,1024-SIGNATURE
- | AMENDMENTS | FIRST ISSUE | DESIGN | DRAWN | CHECK | APPROVED | DATE | AMENDMENT DETAILS | | STATUS | | SCALE | | CLIENT | | PROJECT | | DRAWING TITLE | |
|------------|-------------|--------|-------|-------|----------|----------|------------------------|--|-------------------------|--|---|--|--|--|-----------------------|--|--|--|
| | A | WP | WP | SP | SP | 27.07.21 | | | APPROVAL ISSUE | | | | STOCKLAND DEVELOPMENTS PTY LTD | | BARINGA LOT 8002 | | EROSION AND SEDIMENT CONTROL GENERAL NOTES | |
| | B | WP | WP | SP | SP | 29.09.21 | REVISED APPROVAL ISSUE | | APPROVED | | 0 2.5 5 7.5 10 12.5 15 17.5 20
SCALE 1:250 (A1) SCALE 1:500 (A3) | |  Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522 | | PROJECT No. 21-000157 | | DRAWING No. 21-000157-109 | |
| | C | WP | WP | SP | SP | 21.10.21 | TENDER ISSUE | | BY: SHAUN PILCHER 14593 | | | | | | | | | |
| | D | WP | WP | SP | SP | 13.12.21 | REISSUE FOR APPROVAL | | SIGN: 31.05.22 | | | | | | | | | |
| | E | WP | WP | SP | SP | 05.05.22 | AMENDED LAYOUT | | | | | | | | | | | |
| | F | WP | WP | SP | SP | 12.05.22 | LAYOUT UPDATED | | | | | | | | | | | |
| | | | | | | 09.08.22 | AMENDED LAYOUT | | | | | | | | | | REVISION F | |



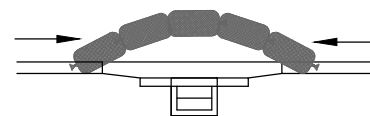
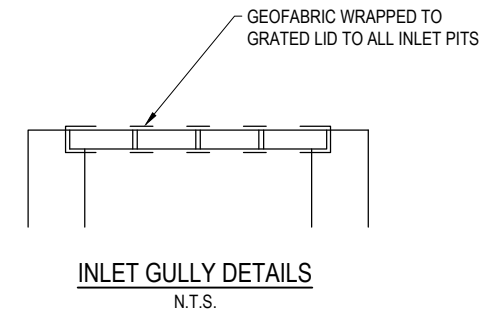
TYPICAL SEDIMENT BASIN



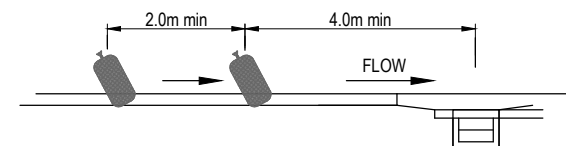
SPILL THROUGH WEIR DETAIL
INSTALL AT ALL SAG POINTS IN SILT FENCES



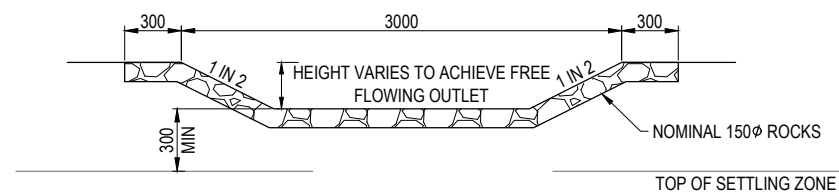
SEDIMENT FENCE DETAIL



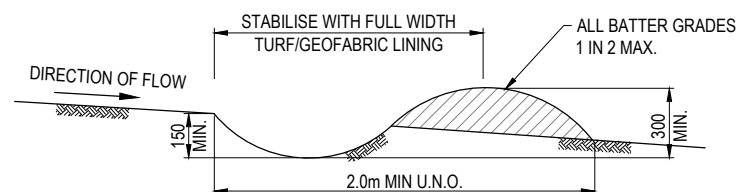
SANDBAGS AT SAG GULLIES
TO BE PROVIDED AT ALL SAG GULLIES



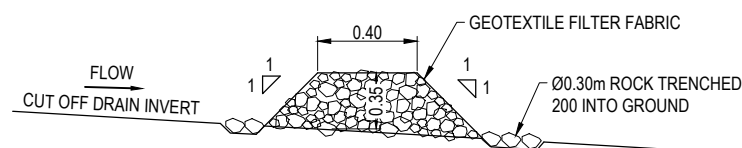
SANDBAGS AT GULLIES ON GRADE
TO BE PROVIDED AT ALL ON-GRADE GULLIES



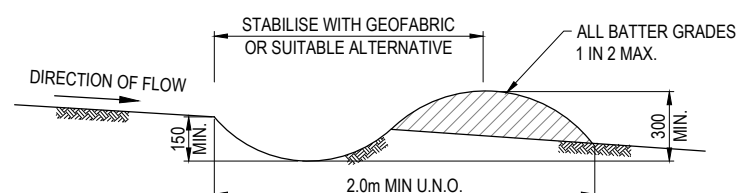
OVERFLOW WEIR DETAIL



CLEAN WATER CUTOFF DRAIN DETAIL



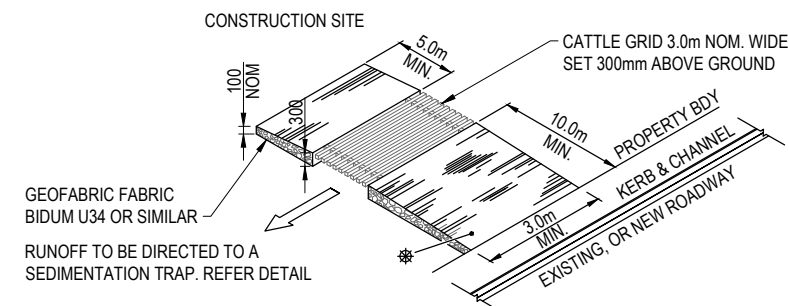
TYPICAL ROCK CHECK DAM SECTION



DIRTY WATER CUTOFF DRAIN DETAIL

- CUTOFF DRAINS - MAINTENANCE PROGRAM
1. INSPECTIONS TO BE CARRIED OUT AFTER EACH RUNOFF EVENT.
 2. SEDIMENT BUILD UP TO BE REMOVED DURING CONSTRUCTION AS REQUIRED BY THE SUPERINTENDENT.

NOTE: DRAIN TO BE CIRCULAR PARABOLIC OR TRAPEZOIDAL, V SHAPED IS NOT ACCEPTABLE. GRADIENT BETWEEN 1.0% TO 5.0%



NOTE:- THE TOP ELEVATION OF THE AGGREGATE AND THE MESH FILTER SHALL BE AT LEAST 150mm BELOW THE SURROUNDING GROUND LEVEL INCLUDING ANY NECESSARY PERIMETER BERMS.

UNBOUND PAVEMENT MATERIAL (GRAVEL) TO GRADING 'B', TABLE 9 OF QT SPECIFICATION MRS11.05, EXCLUDE MATERIAL FINER THAN A.S. SIEVE 2.36mm

TEMPORARY CONSTRUCTION
ENTRY/EXIT SEDIMENT TRAP
N.T.S.

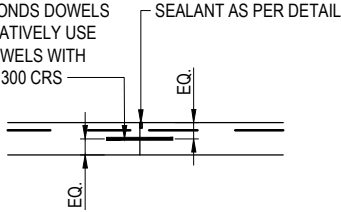
FILE: 21-000157-110.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE	APPROVAL ISSUE		STOCKLAND DEVELOPMENTS PTY LTD	BARINGA LOT 8002	EROSION AND SEDIMENT CONTROL TYPICAL DETAILS
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE					
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL					
D	WP	WP	SP	SP	13.12.21	AMENDED LAYOUT					
E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED					
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT					
					09.08.22	AMENDED LAYOUT					

APPROVED BY: SHAWN PILCHER 14593	SIGN: <i>Shawn Pilcher</i>	DATE: 31.05.22
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DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.	PROJECT No. 21-000157	DRAWING No. 21-000157-110	REVISION F
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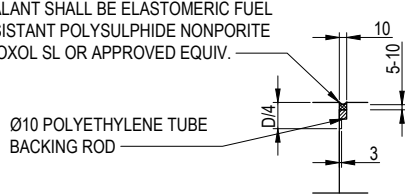
"DANLEY" 6mm DIAMONDS DOWELS
AT 450 CRS. ALTERNATIVELY USE
R16 GALVANISED DOWELS WITH
DOWEL SLEEVES AT 300 CRS



DOWELLED JOINT (DJ) OPTION

N.T.S.

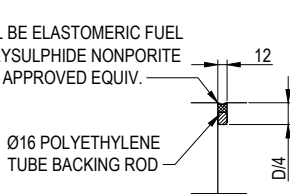
SEALANT SHALL BE ELASTOMERIC FUEL
RESISTANT POLYSULPHIDE NONPORITE
THIOXOL SL OR APPROVED EQUIV.



SJ SEALANT DETAIL

N.T.S.

SEALANT SHALL BE ELASTOMERIC FUEL
RESISTANT POLYSULPHIDE NONPORITE
THIOXOL SL OR APPROVED EQUIV.

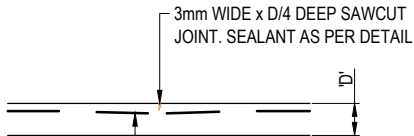


EJ & DJ SEALANT DETAIL

N.T.S.

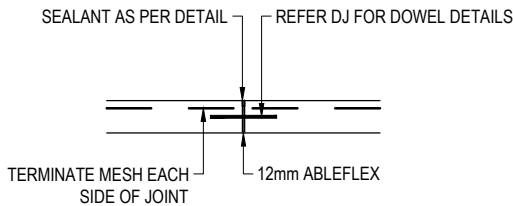
LEGEND

- E.J. EXPANSION JOINT
C.J. CONTRACTION JOINT (EITHER SJ OR DJ)



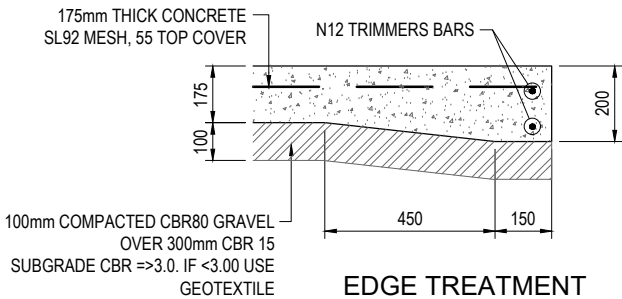
SAWN JOINT (SJ) OPTION

N.T.S.



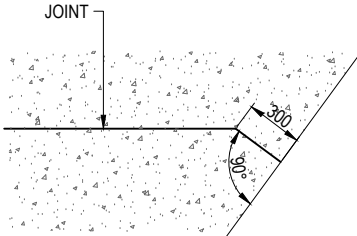
EXPANSION JOINT DETAIL (EJ)

N.T.S.



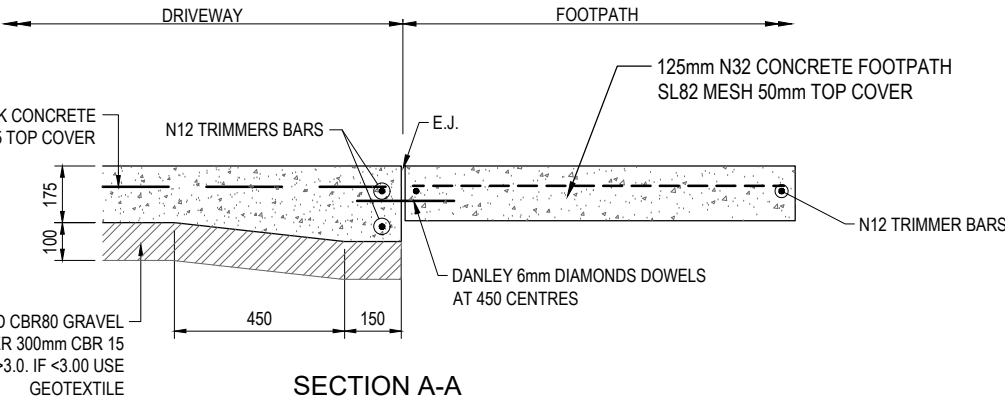
EDGE TREATMENT

SCALE 1:10 (A1)



**TYP. JOINT TERMINATION AT
OBLIQUE SLAB EDGE**

N.T.S.



SECTION A-A

SCALE 1:10 (A1)

CONCRETE NOTES

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS.3600 S.A.A. CONCRETE STRUCTURES.
- C2 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- C3 THE FACE OF ALL CONCRETE AGAINST WHICH NEW CONCRETE IS TO BE CAST IS TO BE THOROUGHLY MECHANICALLY SCABBLED, FULLY EXPOSING THE AGGREGATE MATRIX, UNLESS OTHERWISE NOTED.
- C4 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. THE INTERFACE OF THE HARDENED CONCRETE SHALL BE THOROUGHLY SCABBLED TO REMOVE LAITANCE AT ALL CONSTRUCTION JOINTS.
- C5 FORMWORK SHALL BE DESIGNED AND CONSTRUCTED BY THE BUILDER IN ACCORDANCE WITH AS.3610 S.A.A. FORMWORK CODE.
- C6 CONCRETE TESTING SHALL BE 'PROJECT ASSESSMENT' IN ACCORDANCE WITH SECTION 20.7 OF AS.3600.
- C7 CONCRETE SIZES AS DRAWN DO NOT INCLUDE APPLIED FINISHES AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT APPROVAL OF THE ENGINEER.
- C8 SAW CUTTING OF JOINTS IN SLABS ON GROUND SHALL COMMENCE AS EARLY AS POSSIBLE WITHOUT CAUSING UNACCEPTABLE RAVELLING OF JOINT EDGES. (NORMALLY WITHIN 24 HOURS OF CASTING SLAB) SAW CUTTING SHALL BE COMPLETED WITHIN 36 HOURS OF SLAB CASTING.
- C9 CONCRETE SLUMP SHALL BE 80 mm UNLESS STATED OTHERWISE.
- C10 THE APPROVED METHOD OF CURING SHALL BE IN PLACE FOR A MINIMUM PERIOD OF 7 DAYS.
- C11 CONCRETE CHARACTERISTIC STRENGTH (f_c) SHALL BE AS FOLLOWS UNLESS STATED OTHERWISE:
- | ELEMENT | EXPOSURE CLASSIFICATION | COVER (mm) | GRADE (MPa) |
|----------------|-------------------------|------------|-------------|
| SLAB ON GROUND | B1 | 40 | 32 |
- C12 MAXIMUM CONCRETE AGGREGATE SIZE TO BE 20mm UNO.

REINFORCING STEEL

- S1 ABBREVIATIONS FOR STEEL GRADE AND TYPE: -
"R" - STRUCTURAL GRADE 230 PLAIN ROUND BAR TO AS1302
"Y" - GRADE 410 Y HOT ROLLED DEFORMED BAR TO AS1302
"N" - GRADE D500N TO AS/NZS4671
"F" - HARD DRAWN STEEL WIRE REINFORCING FABRIC TO AS1304
"W" - STEEL WIRE TO AS1303
- S2 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- S3 WELDING SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
- S4 ENSURE THE CORRECT SPACING OF BARS IS MAINTAINED AND ALL REINFORCEMENT IS SUPPORTED IN ITS CORRECT POSITION BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS @ 1000 MAX CRS.
- S5 ALL INTERSECTIONS OF BARS SHALL BE TIED WITH 1.25mm Ø MIN ANNEALED WIRE.
- S6 LAPS TO FABRIC REINFORCEMENT SHALL BE AT LEAST 225mm OR 2 CROSS WIRES ON EACH SHEET. LAPS TO TRENCH MESH SHALL BE 500mm MINIMUM AT SPLICES AND FULL WIDTH AT INTERSECTIONS.
- S7 IF BARS OF DIFFERENT DIAMETERS ARE LAPPED, THE LAP LENGTH SHALL BE CALCULATED USING THE LESSER DIAMETER.

FILE: 21-000157-111.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: X-20-000315,1024-SIGNATURE, 21-000157-BASE, Lot 8002 OVERALL SITE PLAN, 15-002215,006-AS Con

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
	WP	WP	SP	SP	27.07.21	
A	WP	WP	SP	SP	29.09.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	21.10.21	TENDER ISSUE
C	WP	WP	SP	SP	13.12.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	05.05.22	AMENDED LAYOUT
E	WP	WP	SP	SP	12.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	09.08.22	AMENDED LAYOUT

STATUS		APPROVAL ISSUE	
APPROVED		BY: SHAWN PILCHER 14593	
SIGN:		DATE: 31.05.22	

SCALE

CLIENT
STOCKLAND DEVELOPMENTS PTY LTD

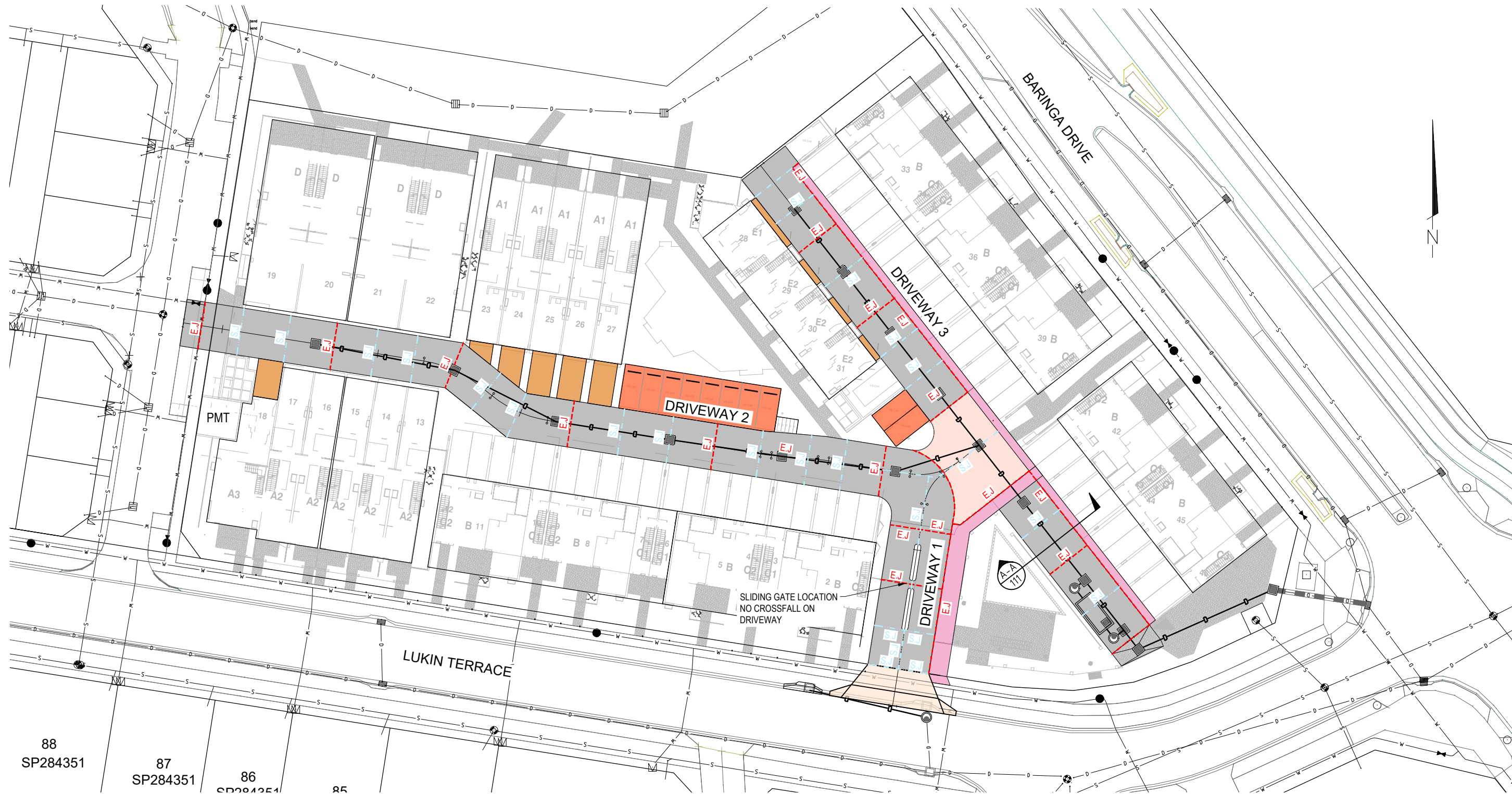
Calibre Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522

PROJECT
BARINGA LOT 8002
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

DRAWING TITLE		
CONCRETE DETAILS		
PROJECT No.	DRAWING No.	REVISION
21-000157	21-000157-111	F

LEGEND

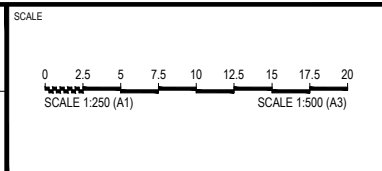
- WORKS EXTENT
- E.J. EXPANSION JOINT
- S.J. SAWN JOINT



FILE: 21-000157-112.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: 21-000157-BASE, DA, 2, 2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 15-02-2021, 006-AS Con, 21-000157-BASE-DC-TURNPATH

REV	ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	REVISION
A	WP	WP	SP	SP	27.07.21	AMENDMENT DETAILS	
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E	WP	WP	SP	SP	05.05.22	AMENDED LAYOUT	
F	WP	WP	SP	SP	12.05.22	LAYOUT UPDATED	
G	WP	WP	SP	SP	09.08.22	AMENDED LAYOUT	

STATUS		APPROVAL ISSUE	
APPROVED		BY: SHAWN PILCHER 14593	
SIGN:		DATE: 31.05.22	



CLIENT

STOCKLAND DEVELOPMENTS PTY LTD

Stockland

Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522

calibre
calibregroup.com

PROJECT

BARINGA LOT 8002

DISCLAIMER
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DRAWING TITLE

CONCRETE JOINTING PLAN

PROJECT No. 21-000157 DRAWING No. 21-000157-112 REVISION F

NOTE
ALL INLET PITS ARE TO BE FITTED WITH A SPEL STORMSACK
TO SUIT PIT SIZE

LEGEND

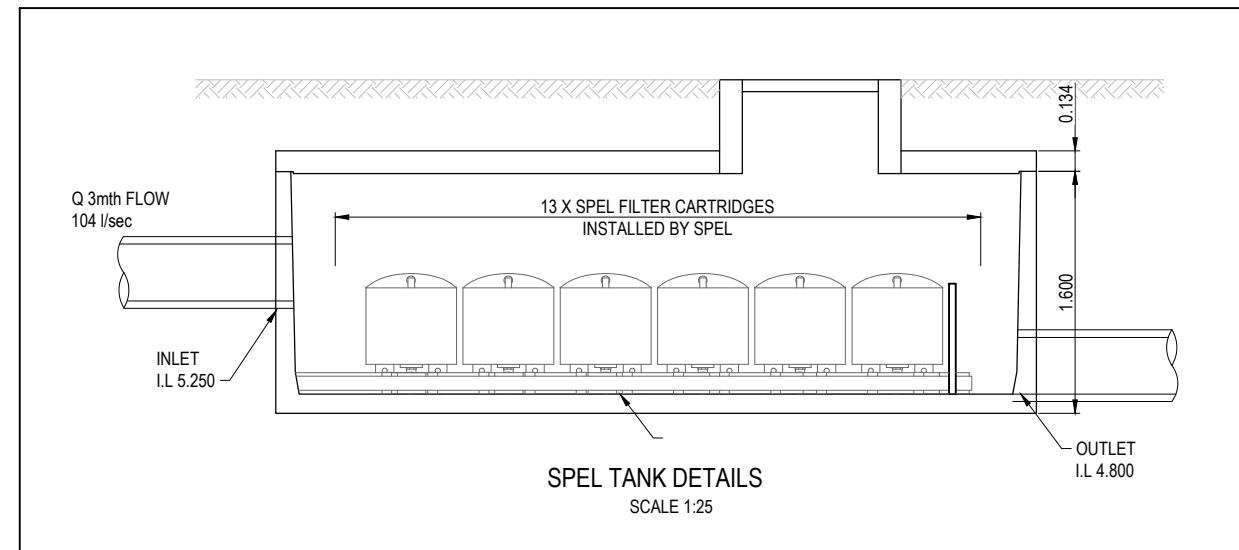
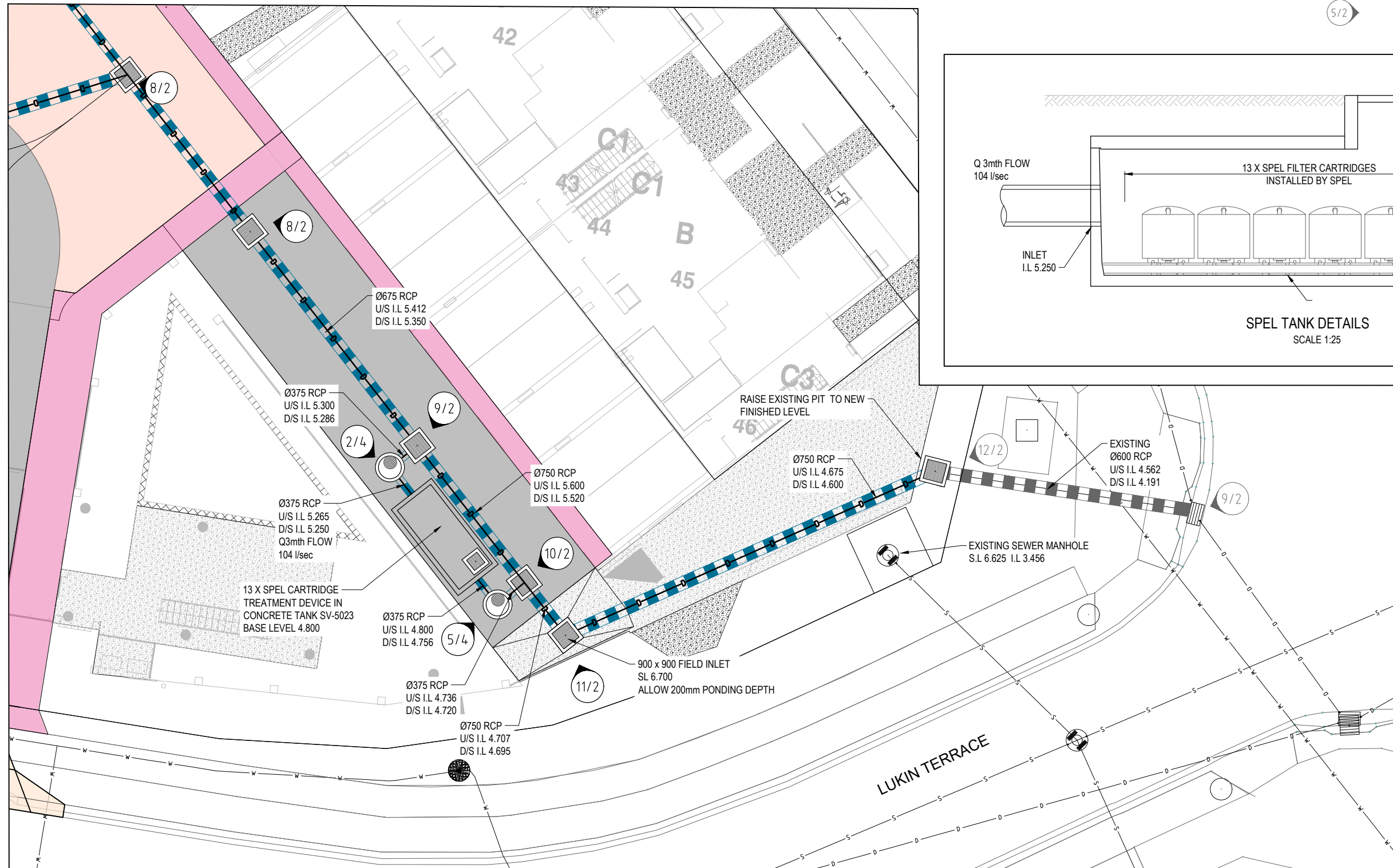
--- WORKS EXTENT

--- EXISTING STORMWATER DRAINAGE

--- PROPOSED STORMWATER DRAINAGE

5/2 PROPOSED DRAINAGE STRUCTURE NUMBER

5/2 EXISTING DRAINAGE STRUCTURE NUMBER



NOTE
REFER TO MANUFACTURERS SPECIFICATIONS
FOR SPEL TANK DETAILS

FILE: 21-000157-113.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: 21-000157-BASE, DA, 2.2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 15-02-2021, 006-AS Con, 21-000157-BASE-DC-TURNPATH

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
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F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT
G	WP	WP	SP	SP	09.08.22	AMENDED LAYOUT

STATUS

APPROVAL ISSUE

APPROVED BY: SHAWN PILCHER 14593

SIGN: *Shawn Pilcher* DATE: 31.05.22

SCALE

0 1 2 3 4 5 6 7 8

SCALE 1:100 (A1) SCALE 1:200 (A3)

CLIENT

STOCKLAND DEVELOPMENTS PTY LTD

Stockland

calibre

Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522

calibregroup.com

PROJECT

BARINGA LOT 8002

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DRAWING TITLE

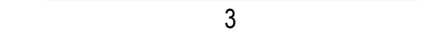
SPEL STORMWATER DEVICE
DETAIL PLAN

PROJECT No. 21-000157 DRAWING No. 21-000157-113 REVISION F

Q10 HGL

Q100 HGL

LINE	1
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Q10 CALCULATION TABLES

DRAWING TITLE		
STORMWATER Q10 CALCULATION TABLES		
PROJECT No.	DRAWING No.	REVISION
21-000157	21-000157-115	F

Q100 CALCULATION TABLES

DRAWING TITLE		
STORMWATER Q100 CALCULATION TABLES		
PROJECT No.	DRAWING No.	REVISION
21-000157	21-000157-116	C

SETOUT COORDS EDGE OF DRIVEWAY			
1	508104.284	7034692.832	7.092
2	508096.580	7034694.052	7.145
3	508105.110	7034698.047	7.187
4	508101.653	7034698.595	7.200
5	508100.863	7034698.720	7.202
6	508097.406	7034699.267	7.214
7	508105.853	7034702.738	7.226
8	508102.396	7034703.285	7.229
9	508101.606	7034703.410	7.230
10	508098.149	7034703.958	7.231
11	508106.103	7034704.318	7.236
12	508102.646	7034704.865	7.230
13	508101.856	7034704.991	7.230
14	508098.399	7034705.538	7.236
15	508106.737	7034708.319	7.260
16	508103.280	7034708.867	7.212
17	508102.490	7034708.992	7.212
18	508099.033	7034709.539	7.260
19	508107.166	7034711.027	7.266
20	508103.314	7034711.637	7.179
21	508099.548	7034712.794	7.268
22	508110.693	7034721.812	7.056
23	508108.126	7034719.807	7.088

SETOUT COORDS EDGE OF DRIVEWAY			
24	508104.754	7034718.263	7.125
25	508101.950	7034718.210	7.152
26	508102.319	7034721.189	7.243
27	508097.657	7034715.397	7.293
28	508094.317	7034715.926	7.325
29	508094.857	7034719.333	7.222
30	508095.326	7034722.296	7.312
31	508090.463	7034716.536	7.364
32	508090.885	7034719.950	7.261
33	508091.254	7034722.941	7.352
34	508086.640	7034717.142	7.395
35	508086.922	7034720.314	7.300
36	508087.449	7034723.279	7.387
37	508087.731	7034725.056	7.405
38	508084.966	7034725.494	7.435
39	508084.654	7034723.527	7.415
40	508085.523	7034729.013	7.470
41	508065.769	7034732.141	7.667
42	508064.885	7034726.561	7.610
43	508082.343	7034717.822	7.429
44	508082.805	7034720.736	7.340
45	508083.266	7034723.650	7.429
46	508071.616	7034719.521	7.535

SETOUT COORDS EDGE OF DRIVEWAY			
47	508072.078	7034722.435	7.446
48	508072.539	7034725.348	7.535
49	508063.715	7034720.773	7.613
50	508064.176	7034723.686	7.524
51	508056.801	7034721.868	7.681
52	508057.263	7034724.781	7.592
53	508057.724	7034727.695	7.681
54	508050.676	7034722.838	7.751
55	508052.122	7034726.104	7.644
56	508053.146	7034728.420	7.720
57	508045.571	7034726.934	7.788
58	508047.417	7034729.235	7.699
59	508049.263	7034731.536	7.788
60	508042.847	7034729.120	7.816
61	508043.871	7034731.436	7.740
62	508045.160	7034734.828	7.851
63	508039.686	7034729.620	7.867
64	508040.148	7034732.534	7.778
65	508040.625	7034735.546	7.870
66	508033.839	7034730.547	7.924
67	508034.301	7034733.460	7.836
68	508034.778	7034736.473	7.927
69	508026.877	7034731.650	7.993

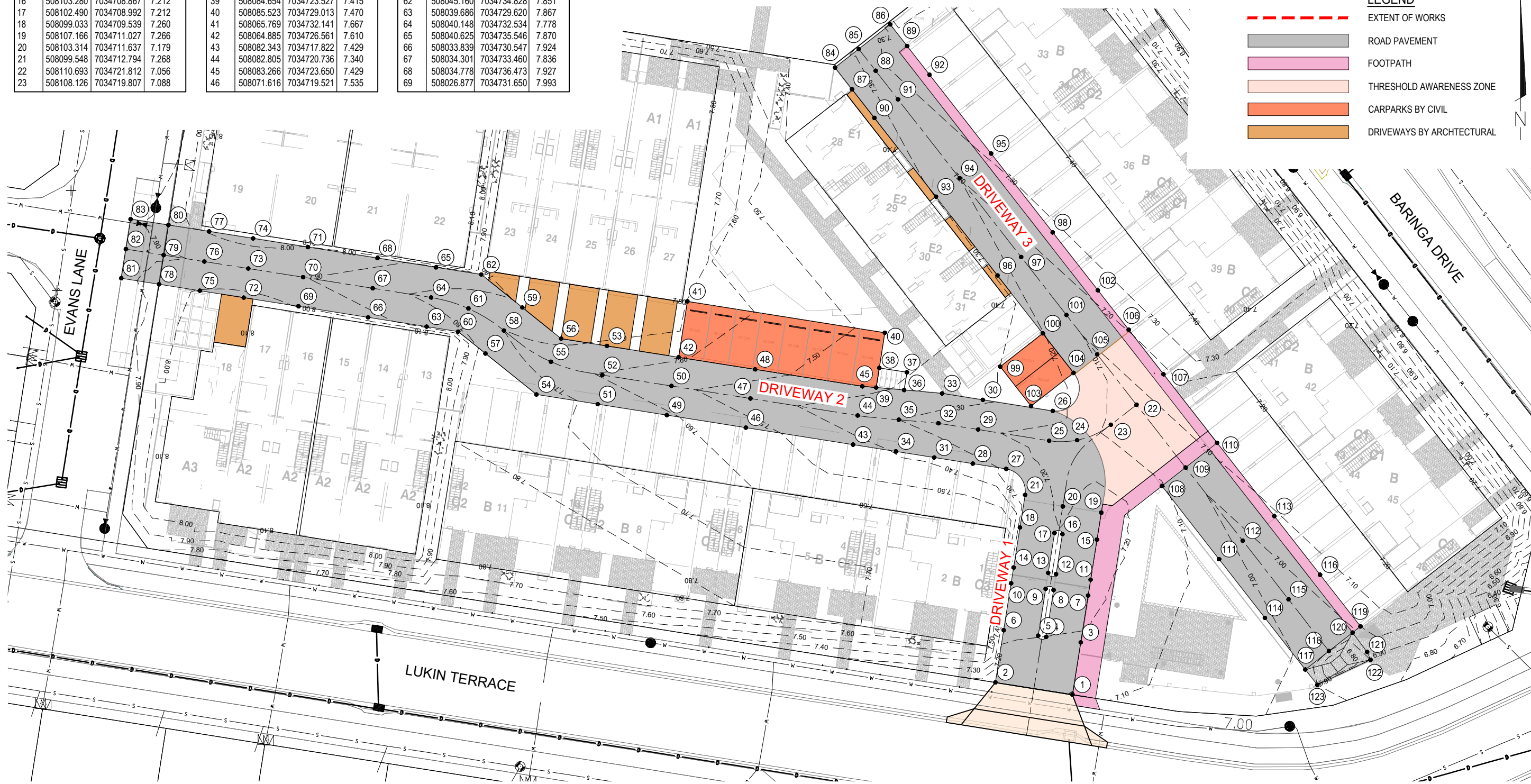
SETOUT COORDS EDGE OF DRIVEWAY			
70	508027.339	7034734.563	7.905
71	508027.816	7034737.575	7.996
72	508021.396	7034732.518	8.020
73	508021.858	7034735.431	7.932
74	508022.335	7034738.443	8.023
75	508017.001	7034733.214	8.003
76	508017.462	7034736.128	7.914
77	508017.939	7034739.140	8.006
78	508012.927	7034733.859	7.970
79	508013.389	7034736.773	7.882
80	508013.866	7034739.785	7.973
81	508009.147	7034734.458	7.850
82	508009.608	7034737.372	7.852
83	508010.083	7034740.368	7.855

SETOUT COORDS EDGE OF DRIVEWAY			
84	508080.543	7034755.529	7.372
85	508082.907	7034757.376	7.282
86	508086.059	7034759.839	7.402
87	508082.237	7034753.361	7.358
88	508084.601	7034755.208	7.268
89	508087.753	7034757.671	7.383
90	508084.477	7034750.494	7.340
91	508086.841	7034752.341	7.250
92	508089.993	7034754.804	7.365
93	508090.634	7034742.614	7.290
94	508092.998	7034744.461	7.200
95	508096.150	7034746.923	7.315
96	508096.790	7034734.734	7.240
97	508099.154	7034736.581	7.150

SETOUT COORDS EDGE OF DRIVEWAY			
98	508102.306	7034739.043	7.265
99	508097.060	7034725.617	7.298
100	508101.315	7034728.942	7.203
101	508103.679	7034730.789	7.113
102	508106.831	7034733.251	7.228
103	508100.138	7034721.677	7.273
104	508104.394	7034725.002	7.178
105	508106.758	7034726.849	7.088
106	508109.910	7034729.311	7.203
107	508113.388	7034724.859	7.175
108	508113.235	7034713.686	7.106
109	508115.599	7034715.533	7.016
110	508118.751	7034717.996	7.131
111	508118.954	7034706.365	7.060

SETOUT COORDS EDGE OF DRIVEWAY			
112	508121.318	7034708.212	6.970
113	508124.470	7034710.675	7.085
114	508123.535	7034700.502	7.023
115	508125.899	7034702.349	6.933
116	508129.051	7034704.812	7.048
117	508127.573	7034695.334	6.990
118	508129.937	7034697.180	6.900
119	508133.089	7034699.643	7.001
120	508132.301	7034699.028	6.990
121	508133.760	7034697.095	6.935
122	508134.090	7034696.314	6.900
123	508128.771	7034693.800	6.900

- LEGEND**
- EXTENT OF WORKS
 - ROAD PAVEMENT
 - FOOTPATH
 - THRESHOLD AWARENESS ZONE
 - CARPARKS BY CIVIL
 - DRIVEWAYS BY ARCHITECTURAL



FILE: 21-000157-117.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: 21-000157-BASE, D2, D2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 21-000157-BASE-DC-TURNPATH, 15-002215.006-AS Con

REV	DATE	BY	CHKD	APPD	DATE	REVISION
A	27.07.21	WP	WP	SP	27.07.21	REVISED APPROVAL ISSUE
B	29.09.21	WP	WP	SP	29.09.21	TENDER ISSUE
C	21.10.21	WP	WP	SP	21.10.21	REISSUE FOR APPROVAL
D	13.12.21	WP	WP	SP	13.12.21	AMENDED LAYOUT
E	05.05.22	WP	WP	SP	05.05.22	LAYOUT UPDATED
F	12.05.22	WP	WP	SP	12.05.22	AMENDED LAYOUT
F	09.08.22	WP	WP	SP	09.08.22	AMENDED LAYOUT

STATUS	
APPROVAL ISSUE	
APPROVED BY:	SHAWN PILCHER 14593
SIGN:	Shawn Pilcher
DATE:	31.05.22

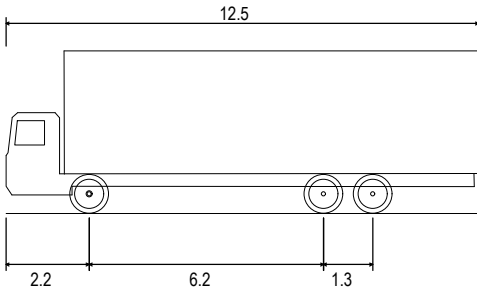
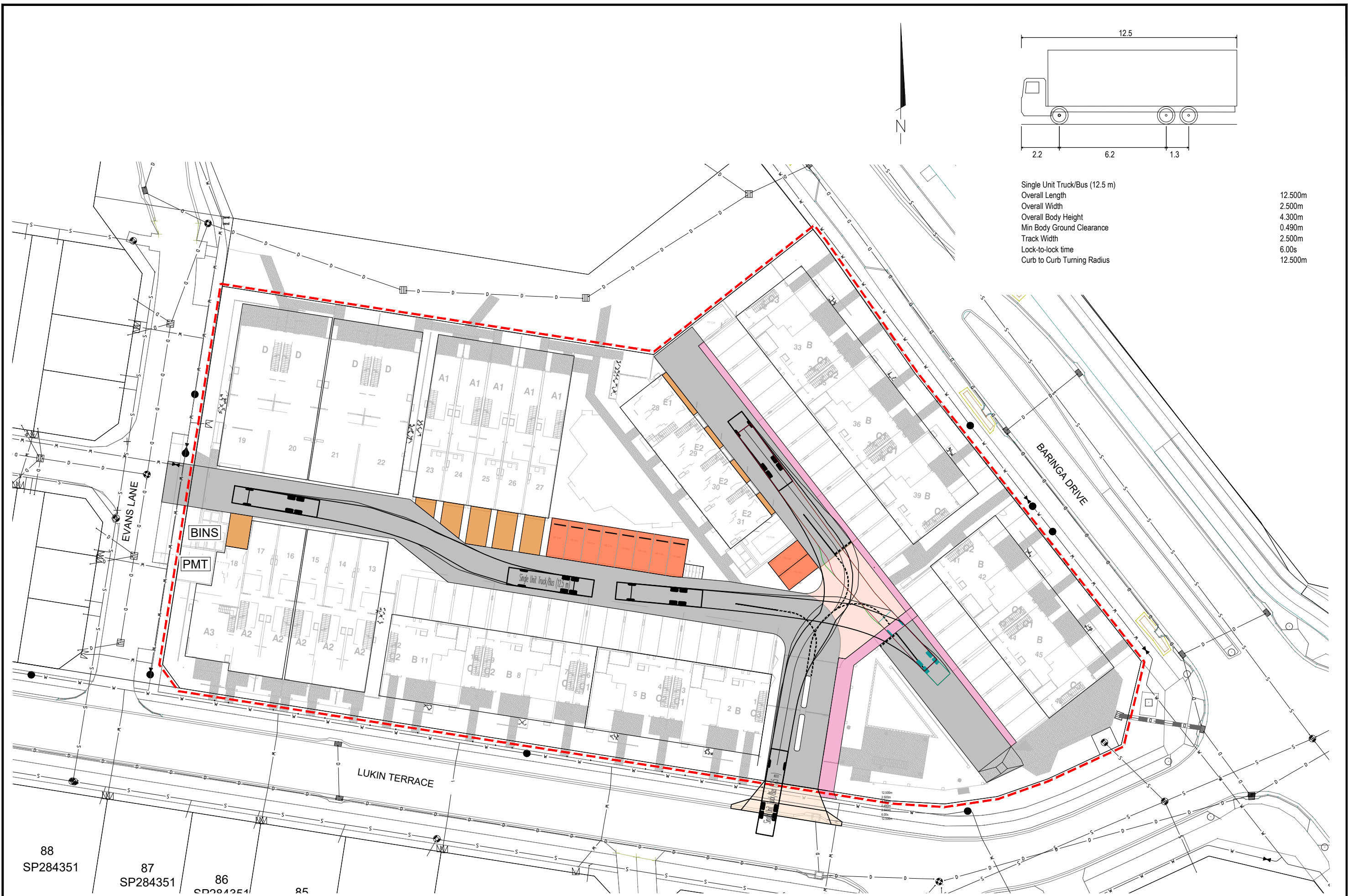
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SCALE 1:200 (A1)	SCALE 1:400 (A3)

CLIENT	
STOCKLAND DEVELOPMENTS PTY LTD	

PROJECT	
BARINGA LOT 8002	
Calibre Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522	

DRAWING TITLE	
DRIVEWAY LEVELS LAYOUT PLAN	
PROJECT No.	DRAWING No.
21-000157	21-000157-117

REVISION	
F	

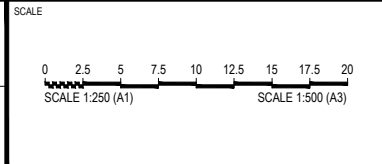


Single Unit Truck/Bus (12.5 m)	
Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

FILE: 21-000157-118.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: 21-000157-BASE, DA, 2.2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 15-02-2021, 006-AS Con, 21-000157-BASE-DC-TURNPATH

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	13.12.21	AMENDED LAYOUT
E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT

STATUS	APPROVAL ISSUE
APPROVED BY:	SHAWN PILCHER 14593
SIGN:	Shawn Pilcher
DATE:	31.05.22

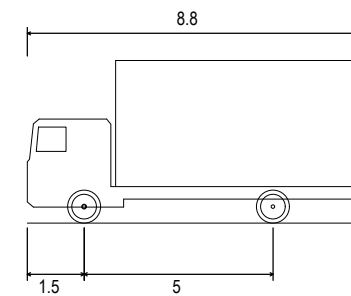
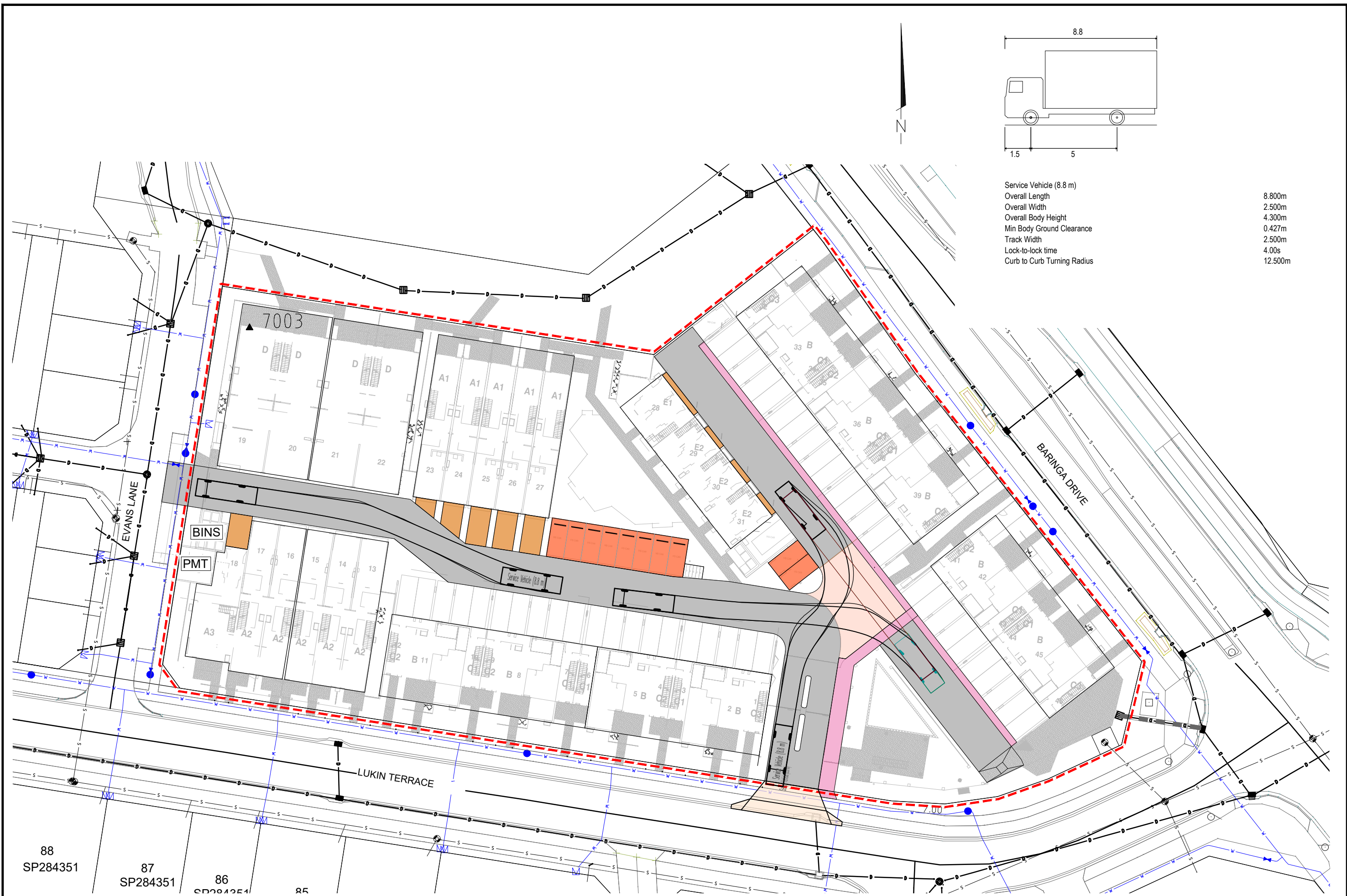


CLIENT
STOCKLAND DEVELOPMENTS PTY LTD
Stockland

Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522
calibre
calibregroup.com

PROJECT
BARINGA LOT 8002
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

DRAWING TITLE	BARINGA LOT 8002
PROJECT No.	21-000157
DRAWING No.	21-000157-118
REVISION	F



Service Vehicle (8.8 m)	
Overall Length	8.800m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.427m
Track Width	2.500m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	12.500m

FILE: 21-000157-119.dwg DATE: 18-03-2019 USER: WESLEY.PIKE
XREFS: 21-000157-BASE, DA, 2,2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 21-000157-BASE-DC-TURNPATH, 15-002215.006-AS Con

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	13.12.21	AMENDED LAYOUT
E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT

STATUS	APPROVAL ISSUE
APPROVED BY:	SHAWN PILCHER 14593
SIGN:	Shawn Pilcher
DATE:	31.05.22

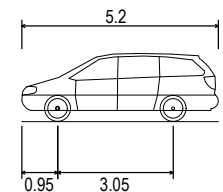
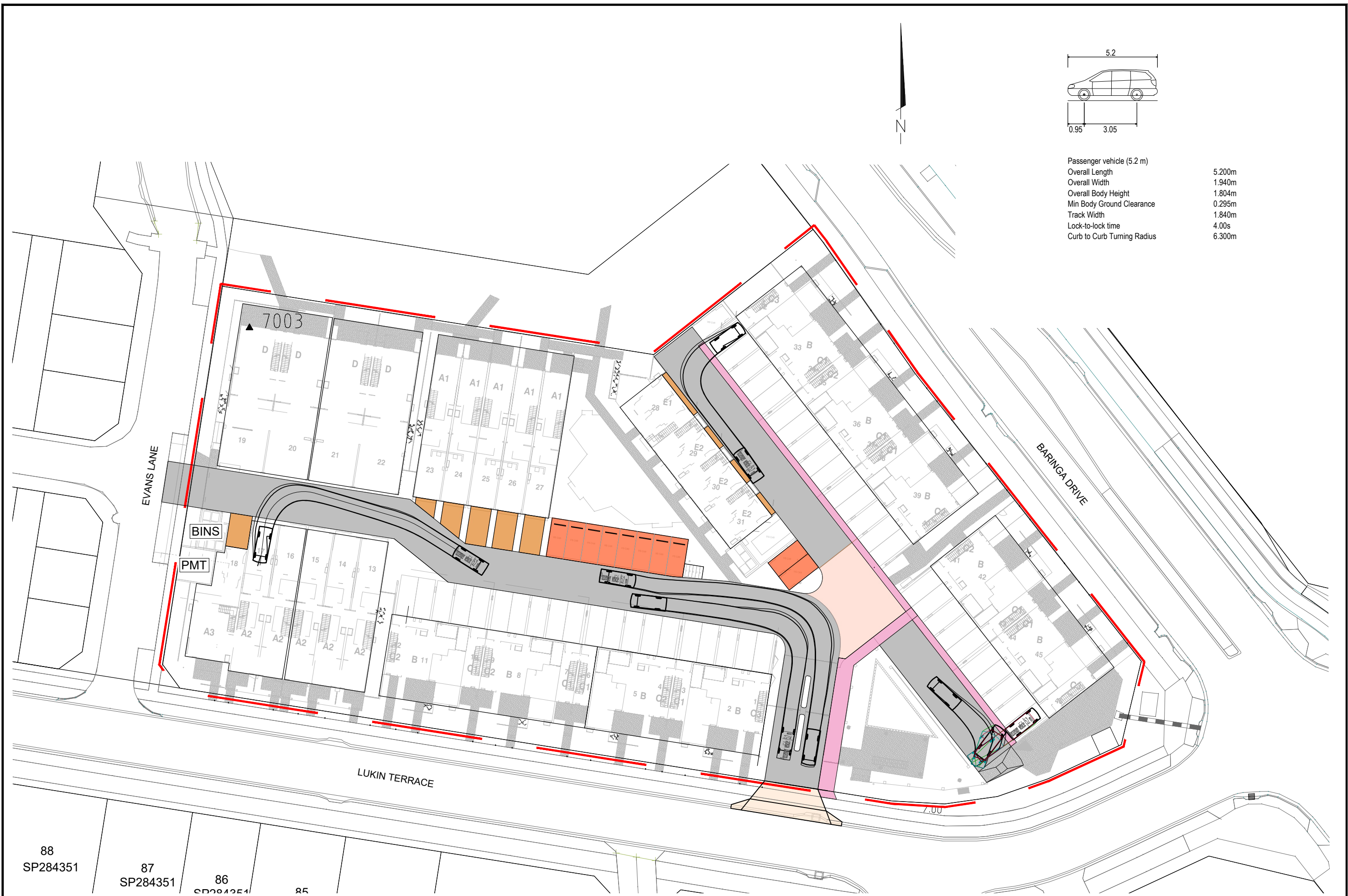
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SCALE 1:250 (A1)	SCALE 1:500 (A3)

CLIENT	STOCKLAND DEVELOPMENTS PTY LTD
	Stockland

Calibre Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522
calibre
calibregroup.com

PROJECT	BARINGA LOT 8002
DISCLAIMER	ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

DRAWING TITLE	TURN PATHS 8.8m SERVICE VEHICLE
PROJECT No.	21-000157
DRAWING No.	21-000157-119
REVISION	F

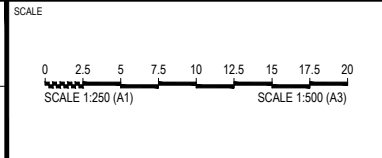


Passenger vehicle (5.2 m)	
Overall Length	5.200m
Overall Width	1.940m
Overall Body Height	1.804m
Min Body Ground Clearance	0.295m
Track Width	1.840m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	6.300m

FILE: 21-000157-120.dwg DATE: 18-03-2019 USER: WESLEY.PIKE
XREFS: 21-000157-BASE, DA, 2,2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 21-000157-BASE-DC-TURNPATH, 15-002215.006-AS Con

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	13.12.21	AMENDED LAYOUT
E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT

STATUS	APPROVAL ISSUE
APPROVED BY:	SHAWN PILCHER 14593
SIGN:	Shawn Pilcher
DATE:	31.05.22



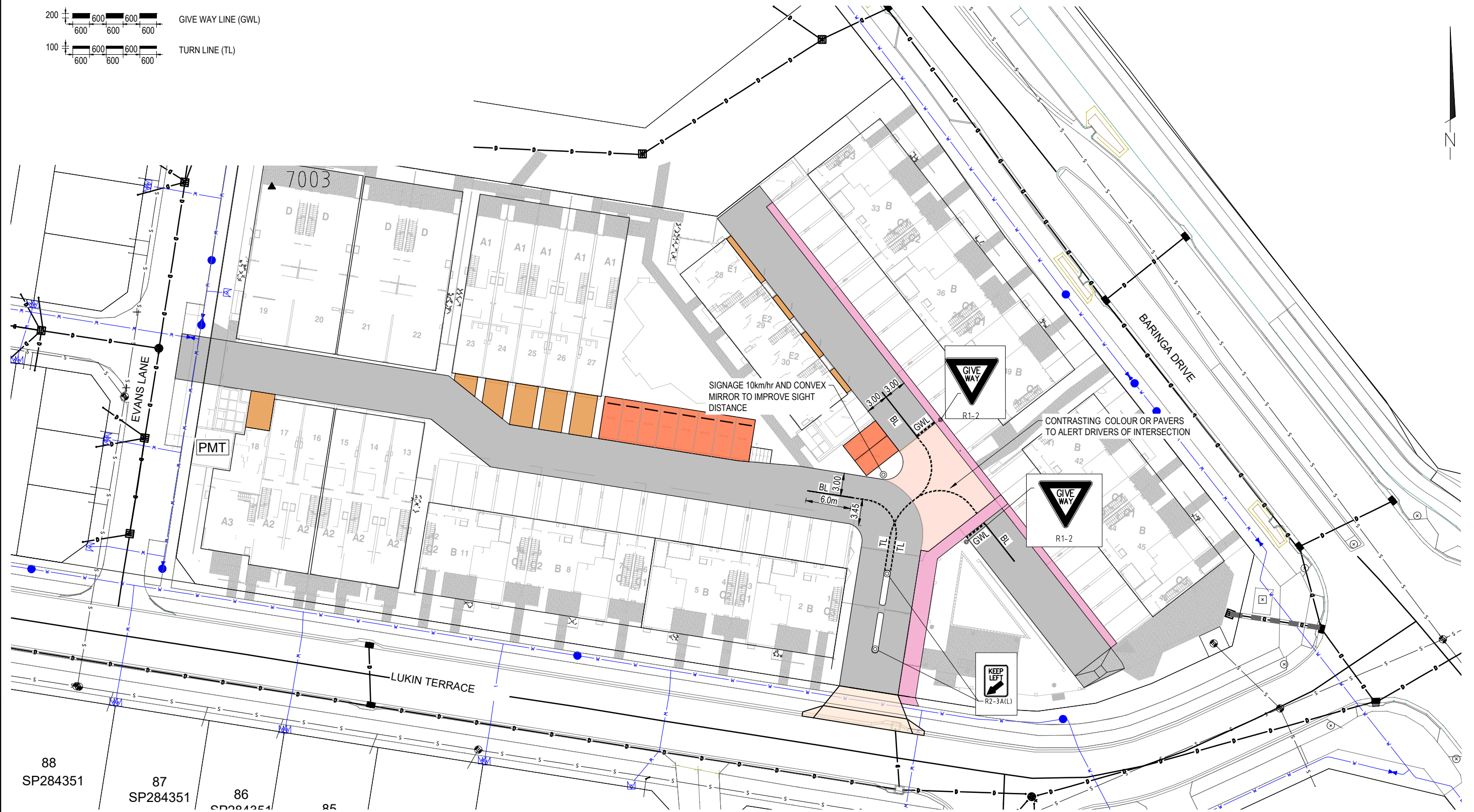
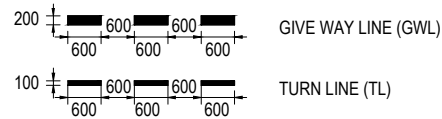
CLIENT
STOCKLAND
DEVELOPMENTS PTY LTD
Stockland

Calibre Professional Services Pty Ltd
Level 4, Unit 401, 8 Market Lane,
Maroochydore, QLD 4558
Telephone 07 5314 2520
Facsimile 07 5314 2522
calibre
calibregroup.com

PROJECT
BARINGA LOT 8002
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO
CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.

DRAWING TITLE	TURN PATHS 5.2m PASSENGER VEHICLE
PROJECT No.	21-000157
DRAWING No.	21-000157-120
REVISION	F

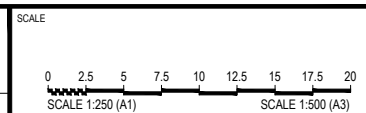
LINEMARKING DETAILS
DIMENSIONS IN MILLIMETERS



FILE: 21-000157-121.dwg DATE: 18-03-2019 USER: WESLEY.PIKE
XREFS: 21-000157-BASE, DA, 2,2, DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, R1-2, 21-000157-BASE-DC-TURNPATH, 15-002215, 006-AS Con

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPROVED	DATE	AMENDMENT DETAILS
A	WP	WP	SP	SP	27.07.21	REVISED APPROVAL ISSUE
B	WP	WP	SP	SP	29.09.21	TENDER ISSUE
C	WP	WP	SP	SP	21.10.21	REISSUE FOR APPROVAL
D	WP	WP	SP	SP	13.12.21	AMENDED LAYOUT
E	WP	WP	SP	SP	05.05.22	LAYOUT UPDATED
F	WP	WP	SP	SP	12.05.22	AMENDED LAYOUT
					09.08.22	

STATUS	APPROVAL ISSUE
APPROVED	BY: SHAWN PILCHER 14593
SIGN:	Shawn Pilcher
DATE:	31.05.22



CLIENT

STOCKLAND
DEVELOPMENTS PTY LTD

Stockland

calibre

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Telephone 07 5314 2520
Facsimile 07 5314 2522

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PROJECT

BARINGA LOT 8002

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO
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DRAWING TITLE

SIGNS AND LINEMARKING
LAYOUT PLAN

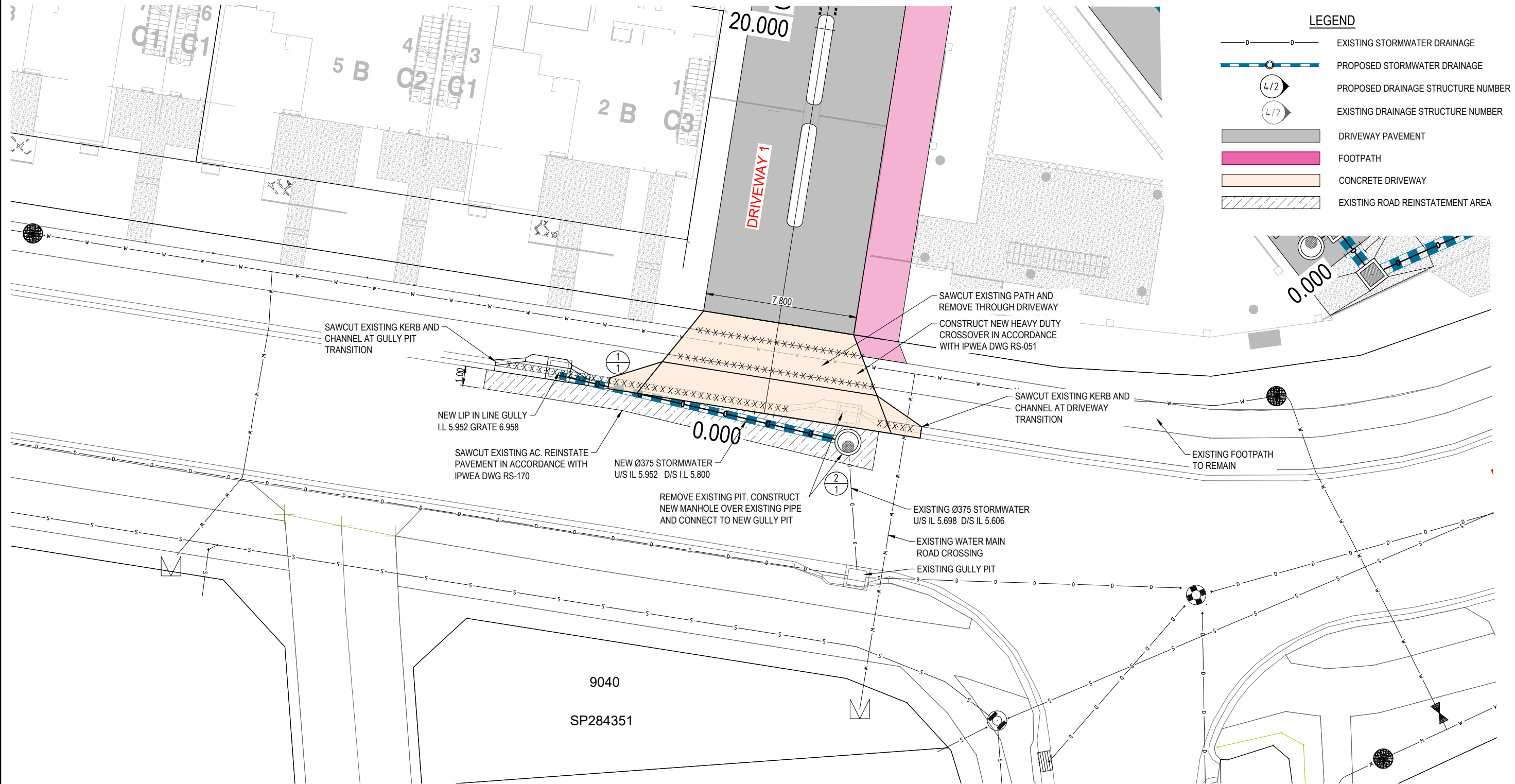
PROJECT No. 21-000157 DRAWING No. 21-000157-121 REVISION F

ROADWORKS & DRAINAGE NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
2. CONTRACTOR TO LIAISE WITH ALL THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
3. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF DEMOLISHING ANY EXISTING STRUCTURES WITHIN THE SITE AREAS.
4. NOT WITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS SHALL BE DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION AFTER AMENDED DRAWINGS HAVE BEEN APPROVED BY COUNCIL.

5. ALL ALLOTMENT FILL IS TO BE COMPACTED TO THE REQUIREMENTS OF AS3798-2007 AND IN ACCORDANCE WITH CURRENT SCC. SPECIFICATIONS.
6. VERGE AND BATTERS TO HAVE A MINIMUM OF 75mm TOPSOIL AND FULL WIDTH TURF IF ORDERED.
7. MATCH TO EXISTING AC PAVEMENT EXTENSION OR WIDENING TO BE IN ACCORDANCE WITH IPWEA STD DRG RS-170.
8. SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME FOR COUNCIL APPROVAL OF PAVEMENT DESIGN.
9. LEVELS FOR KERB AND CHANNELLING/EDGE OF PAVEMENT CONSTRUCTION ARE AT EQUAL INTERVALS AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.

10. SIDE DRAINS TO BE CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL AS PER SCC STANDARDS. REFER TO SCC STD DRG RS-140 FOR DETAILS.
11. ALL STORMWATER PIPES UNDER ROADWAYS AND FOOTPATHS SHALL BE CLASS '2' R.C.P R.R.J. UNLESS NOTED OTHERWISE.
12. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY, AND THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES, IF NECESSARY, IN ACCORDANCE WITH A.S 3725-1989. AT THE CONTRACTORS COST.
13. ALL LOTS NOT DRAINING TO A PROPERTY PIT TO HAVE 2 KERB ADAPTORS . KERB ADAPTORS SHOWN ARE INDICATIVE ONLY AND ARE TO BE INSTALLED IN ACCORDANCE WITH SCC STD DRG RS-081.
14. CONCRETE FOOTPATHS TO BE INSTALLED BY THE CIVIL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO SCC STD DRG RS-065 FOR CONSTRUCTION DETAILS.



FILE: 21-000157-122.dwg DATE: 18-03-2019 USER: WESLEY PIKE
XREFS: 21-000157-BASE_DA_2.2_DWG (S) LOT 8002 - GROUND LEVEL 03-08-2022, 15-02-2021-006-AS Con, 21-000157-BASE-DC-TURNPATH

FIRST ISSUE	AMENDMENT DETAILS				
	DESIGN	DRAWN	CHECK	APPROVED	DATE
A	WP	WP	SP	SP	27.07.21
B	WP	WP	SP	SP	29.09.21
C	WP	WP	SP	SP	21.10.21
D	WP	WP	SP	SP	13.12.21
E	WP	WP	SP	SP	05.05.22
F	WP	WP	SP	SP	12.05.22
G	WP	WP	SP	SP	09.08.22

STATUS	
APPROVAL ISSUE	
APPROVED BY:	SHAWN PILCHER 14593
SIGN:	Shawn Pilcher
DATE:	31.05.22

SCALE	
0 1 2 3 4 5 6 7 8	
SCALE 1:100 (A1)	SCALE 1:200 (A3)

CLIENT	
STOCKLAND DEVELOPMENTS PTY LTD	

PROJECT	
Baringa Professional Services Pty Ltd Level 4, Unit 401, 8 Market Lane, Maroochydore, QLD 4558 Telephone 07 5314 2520 Facsimile 07 5314 2522	
calibregroup.com	

PROJECT	
BARINGA LOT 8002	
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.	

DRAWING TITLE	
STORMWATER RELOCATION DETAIL PLAN	
PROJECT No. 21-000157	DRAWING No. 21-000157-122
REVISION F	

Contact Us

Calibre Professional Services Pty Ltd
55 070 683 037

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PO Box 997, BUDDINA QLD 4575

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