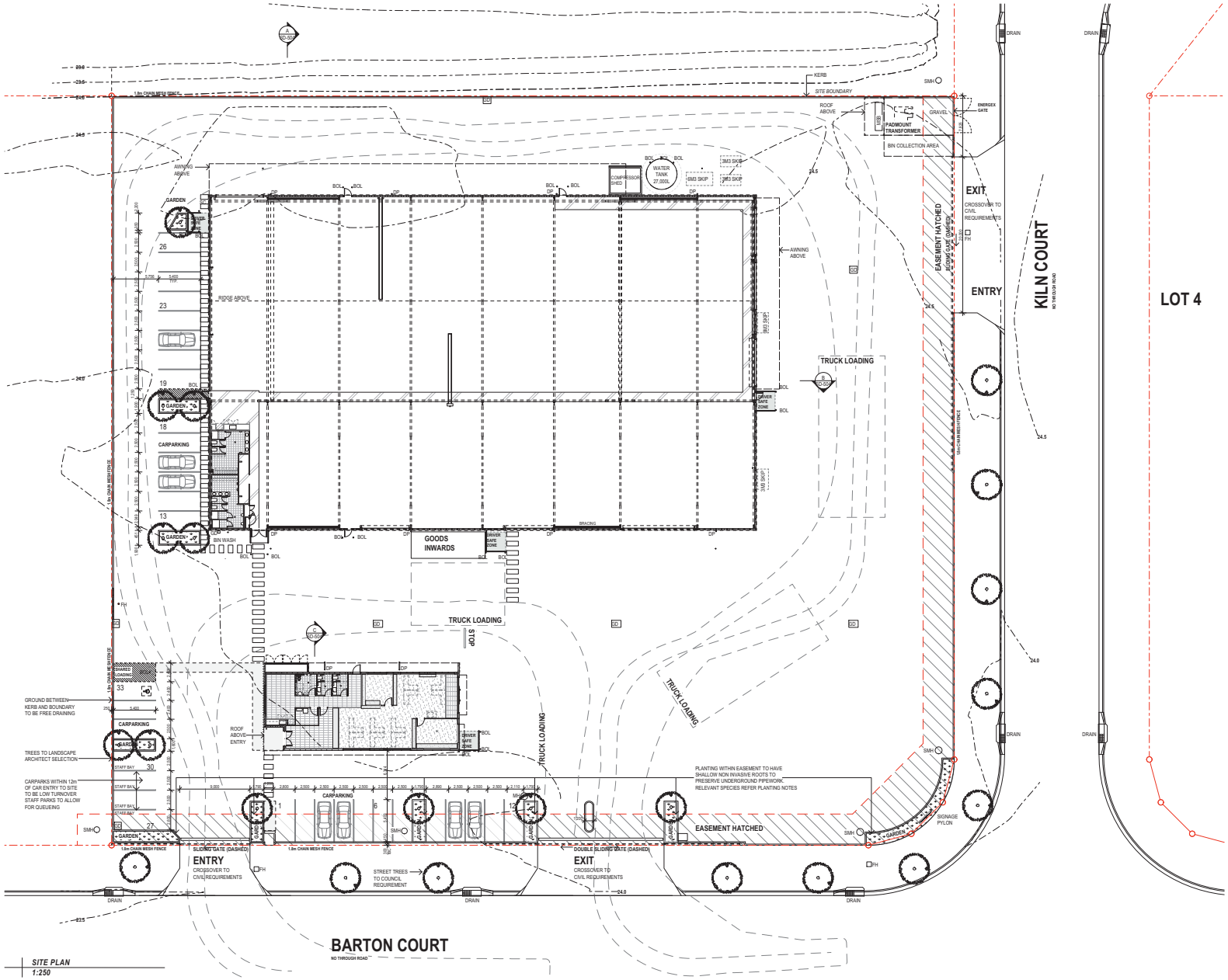


SITE PLAN
1:250

SITE ADDRESS
BARTON COURT, PARKHURST ROCKHAMPTON, Q 4702

LOCAL COUNCIL:
ROCKHAMPTON REGIONAL COUNCIL

RPD
LOT 3 ON SP 326319
EMT D - SP326319

SITE AREA
10,345 SQM

GFA
WAREHOUSE - 3,013m2
ADMIN BUILDING - 243m2

TOTAL GFA= 3,256m2

SITE COVER
31%

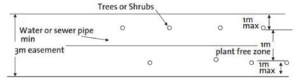
IMPERVIOUS AREA
10,215m2

PLANTING NOTES:
WHERE PLANTING OCCURS IN COUNCIL EASEMENT, SELECT FROM FOLLOWING PLANT SPECIES:

SCREENING SHRUBS:
Syzgium australe

SHRUBS/ GRASSES:
THAT CAN BE PLANTED DIRECTLY ABOVE PIPE
Dianella caerulea
Lomandra longifolia
Poa labillardierei
Themeda triandra
Hovea linearis

SHRUBS/ GRASSES:
THAT CAN BE PLANTED 1.5m TO 3.0m AWAY FROM PIPES:
Dwarf banksia
Phebalium woombye
Indigofera australis



ROCKHAMPTON REGIONAL COUNCIL
AMENDED PLANS APPROVED
27 January 2023
DATE
These plans are approved subject to the current conditions of approval associated with
Development Permit No.: D/114-2022
Dated: 5 December 2022

reddogarchitects.com
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email@reddogarchitects.com
QLD Board of Architects Registration - 2995

0 4 10 20m
SCALE 1:250@A1 1:500@A3

ISSUE	DATE	BY	DESCRIPTION	CHKD
P9	26.09.22	SH	REVISED ISSUE	GT
P10	12.10.22	SH	REVISED ISSUE	GT
P11	21.10.22	SH	REVISED DA ISSUE	GT
P12	15.12.22	SH	REVISED DA ISSUE	GT
P13	20.12.22	SH	REVISED DA ISSUE	GT

BARTON COURT WAREHOUSE

DRAWING
SITE PLAN

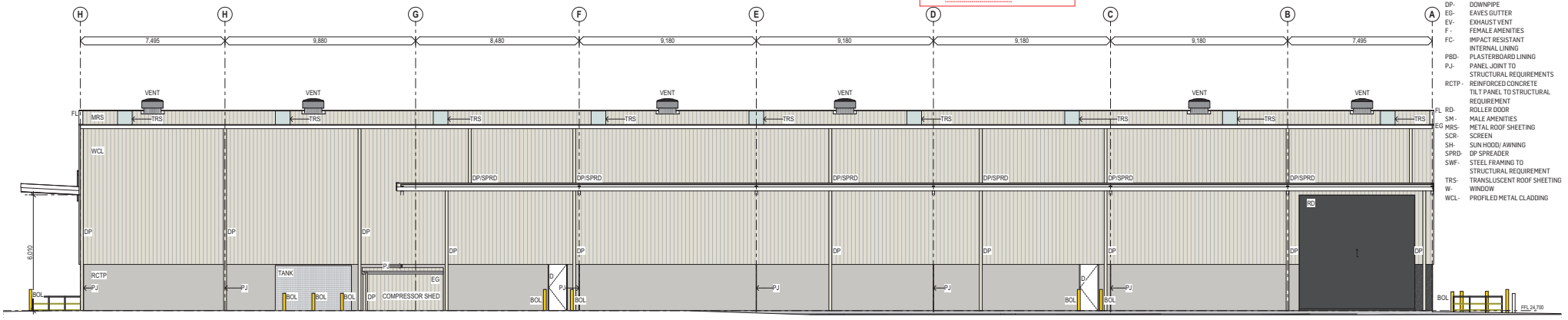
PROJECT NO. **2790-262**
DRAWING NO. **SD-101**
ISSUE **P13**

Document Set ID: 40178640
Version: 1, Version Date: 03/01/2023

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
These plans are approved subject to the current conditions of approval associated with
Development Permit No.: D/114-2022
Dated: 5 December 2022

ELEVATION LEGEND

ACC -	ACCESSIBLE
BG -	BOX GUTTER
BOL-	BOLLARD
CFC-	FLAT SHEET CLADDING
D-	PERSONNEL DOOR
DP-	DOWNPIPE
EG-	EAVES GUTTER
EV-	EXHAUST VENT
F -	FEMALE AMENITIES
FC-	IMPACT RESISTANT INTERNAL LINING
PBD-	PLASTERBOARD LINING
PJ-	PANEL JOINT TO STRUCTURAL REQUIREMENTS
RCTP -	REINFORCED CONCRETE TILT PANEL TO STRUCTURAL REQUIREMENT
RD-	ROLLER DOOR
SM -	MALE AMENITIES
MRS-	METAL ROOF SHEETING
SCR-	SCREEN
SH-	SUN HOOD/ AWNING
SPRD-	DP SPREADER
SWF-	STEEL FRAMING TO STRUCTURAL REQUIREMENT
TRS-	TRANSLUSCENT ROOF SHEETING
W-	WINDOW
WCL-	PROFILED METAL CLADDING



North West Elevation- Warehouse
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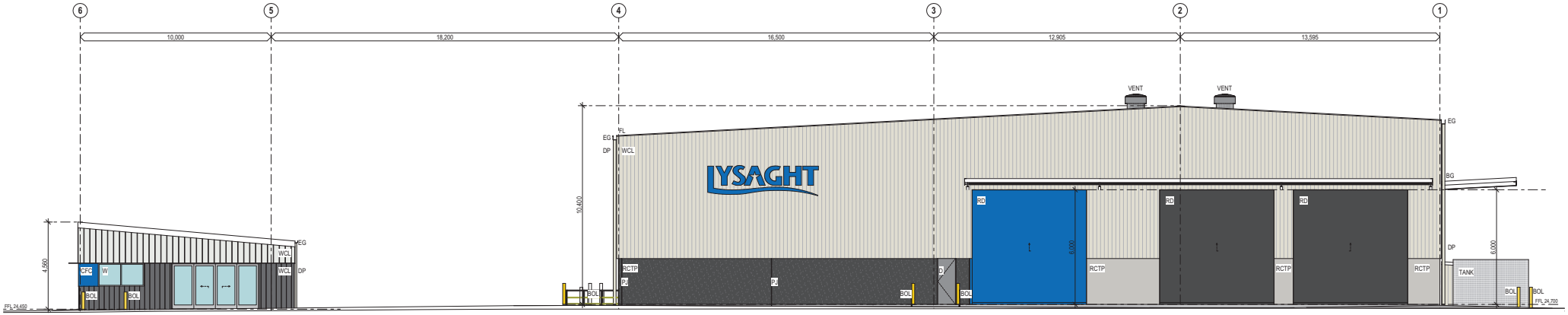

North East Elevation
1:100

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0 2 4 10m
SCALE 1:100@A1 1:200@A3

ISSUE	DATE	BY	DESCRIPTION	CHKD
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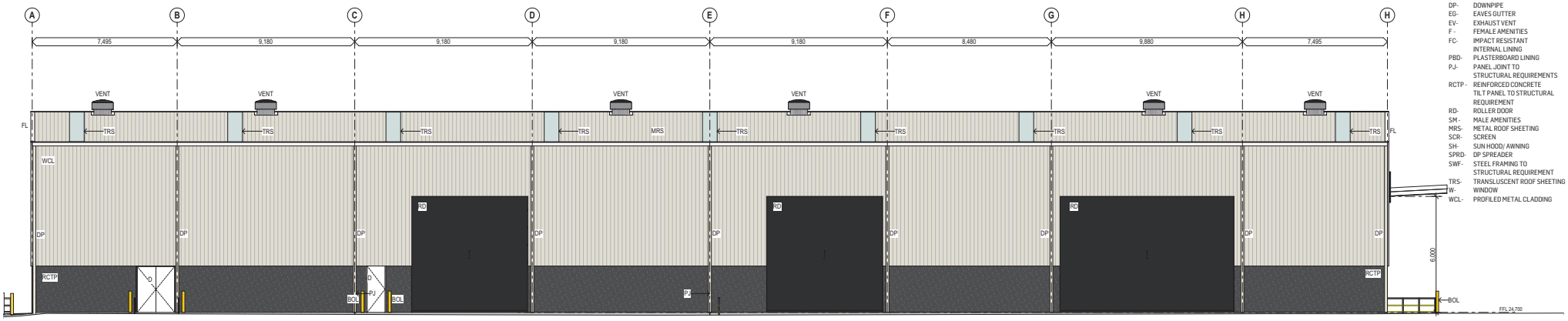
P6	26.09.22	SH	REVISED ISSUE	GT
P7	12.10.22	SH	REVISED ISSUE	GT
P8	21.10.22	SH	REVISED DA ISSUE	GT

BARTON COURT WAREHOUSE

DRAWING
ELEVATIONS 1

PROJECT NO.	DRAWING NO.	ISSUE
2790-262	SD-501	P8



South East Elevation - Warehouse
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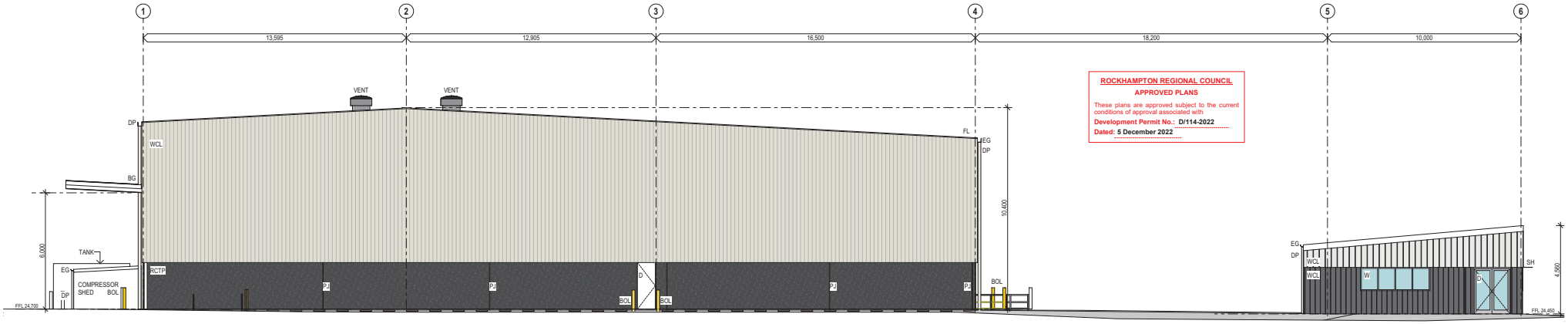

South West Elevation
1:100

ELEVATION LEGEND

ACC -	ACCESSIBLE
BG -	BOX GUTTER
BOL-	BOLLARD
CFC-	FLAT SHEET CLADDING
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W-	WINDOW
WCL-	PROFILED METAL CLADDING

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
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Dated: 5 December 2022

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P8	21.10.22	SH	REVISED DA ISSUE	GT

BARTON COURT WAREHOUSE

DRAWING
ELEVATIONS 2

PROJECT NO.	DRAWING NO.	ISSUE
2790-262	SD-502	P8

ELEVATION LEGEND

ACC -	ACCESSIBLE
BG -	BOX GUTTER
BOL-	BOLLARD
CFC-	FLAT SHEET CLADDING
D-	PERSONNEL DOOR
DP-	DOWNPIPE
EG-	EAVES GUTTER
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ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
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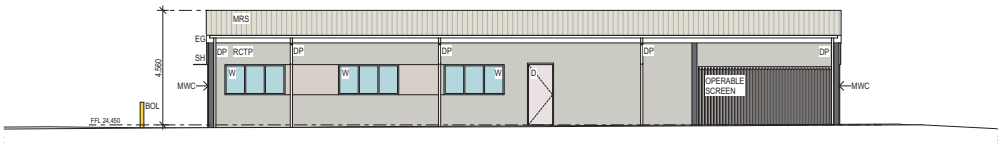
Dated: 5 December 2022



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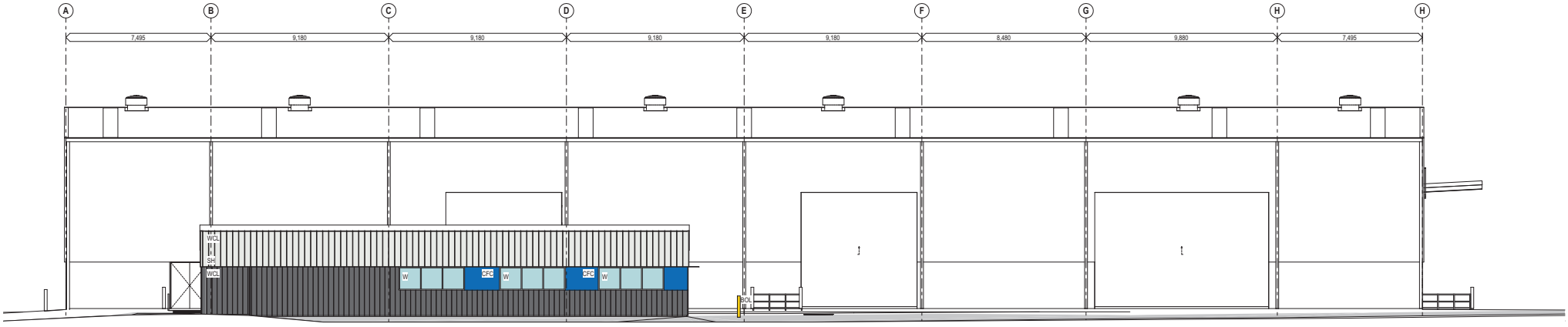

South East Elevation - Admin
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P8	21.10.22	SH	REVISED DA ISSUE	GT

BARTON COURT WAREHOUSE

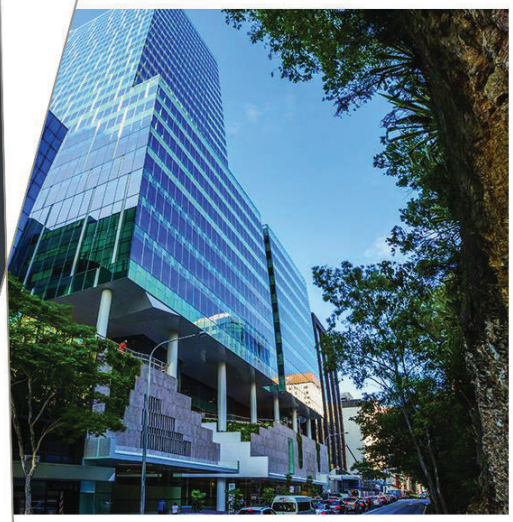
DRAWING
ELEVATIONS 3

PROJECT NO.	DRAWING NO.	ISSUE
2790-262	SD-503	P8

Traffic Impact Assessment

Bluescope, Rockhampton

304900692



Prepared for

TPM Builders

03 August 2022

Cardno

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Document Information

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Author(s):

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Effective Date 3/08/2022

Approved By:

Andy Johnston
Technical Director

Date Approved 3/08/2022

Document History

Version	Effective Date	Description of Revision	Prepared by	Reviewed by
01	02/07/2022	Final	Jasmine Ting	Tetteh Anang

Table of Contents

Tables

Figures

Appendices

1 Introduction

1.1 Overview

Cardno (now Stantec) has been engaged by TPM Builders to provide traffic and transport engineering advice in relation to the proposed warehouse development located at Lot 3 on SP 326319 at Barton Court, Parkhurst.

The development plans are included at Appendix A.

The purpose of this report is to assess the traffic and transport components of the proposed development against the requirements of the Rockhampton Regional Council Planning Scheme and Australian Standards. Therefore, the report addresses the following:

- External traffic impacts
- Internal traffic arrangements, including:
  - Parking provisions
  - Site access design
  - Servicing provisions
- Active and public transport connections

1.2 References

The following resources were referred to in the preparation of the report:

- Australian Standards, *AS2890.1:2004 Parking Facilities Part 1: Off-street Car Parking,* 2004
- Rockhampton Regional Council Planning Scheme
- Queensland Department of Transport and Main Roads (TMR), Guide to Traffic Impact Assessments (GTIA), 2017
- RTA, *Guide to Traffic Generating Developments (Version 2.2),* October 2002

1.3 Limitations

Cardno has completed this traffic report in accordance with the usual care and thoroughness of the consulting profession. The assessment is based on accepted traffic engineering practises and standards applicable at the time of undertaking the assessment. The assessment was completed in July 2022, and is based upon the conditions encountered and project information available at the time. Cardno disclaims responsibility for any changes to project planning or road conditions that may occur after completion of the assessment.

2 Existing Conditions

2.1 Site Location

The proposed development site is located at Lot 3 on SP 326319 at Barton Court, Parkhurst, and is zoned as a high impact industry land use. The site is bound by Barton Court to the South, Kiln Court to the East, and surrounding high impact industry to the North and West.

The site location is shown on Figure 2-1, with the key road characteristics summarised in Table 2-1.

Figure 2-1 Site Location

Source: Nearmap

Table 2-1 Key Road Characteristics

Road	Authority	Classification	Posted Speed	Typical Form
Barton Court	Council	Industrial Access*	50km/hr	Two lane, two way, undivided
Kiln Court	Council	Industrial Access*	50km/hr	Two lane, two way, undivided
Bruce Highway	TMR	Highway	70km/hr	Four lane, two way, median divided
Boundary Road	Council	Urban Arterial	60km/hr	Two lane, two way, undivided
Yaamba Road	Council	Minor Urban Collector^	50km/hr	Two lane, two way, undivided

**Barton Court and Kiln Court not identified on Rockhampton Regional Council Planning Scheme, therefore have been classed as Industrial Access based on zoning, and road design.*

^Yaamba Road not identified on Rockhampton Regional Council Planning Scheme, therefore has been classed as a Minor Urban Collector based on its connection to the Bruce Highway and provision of access to Access Streets.

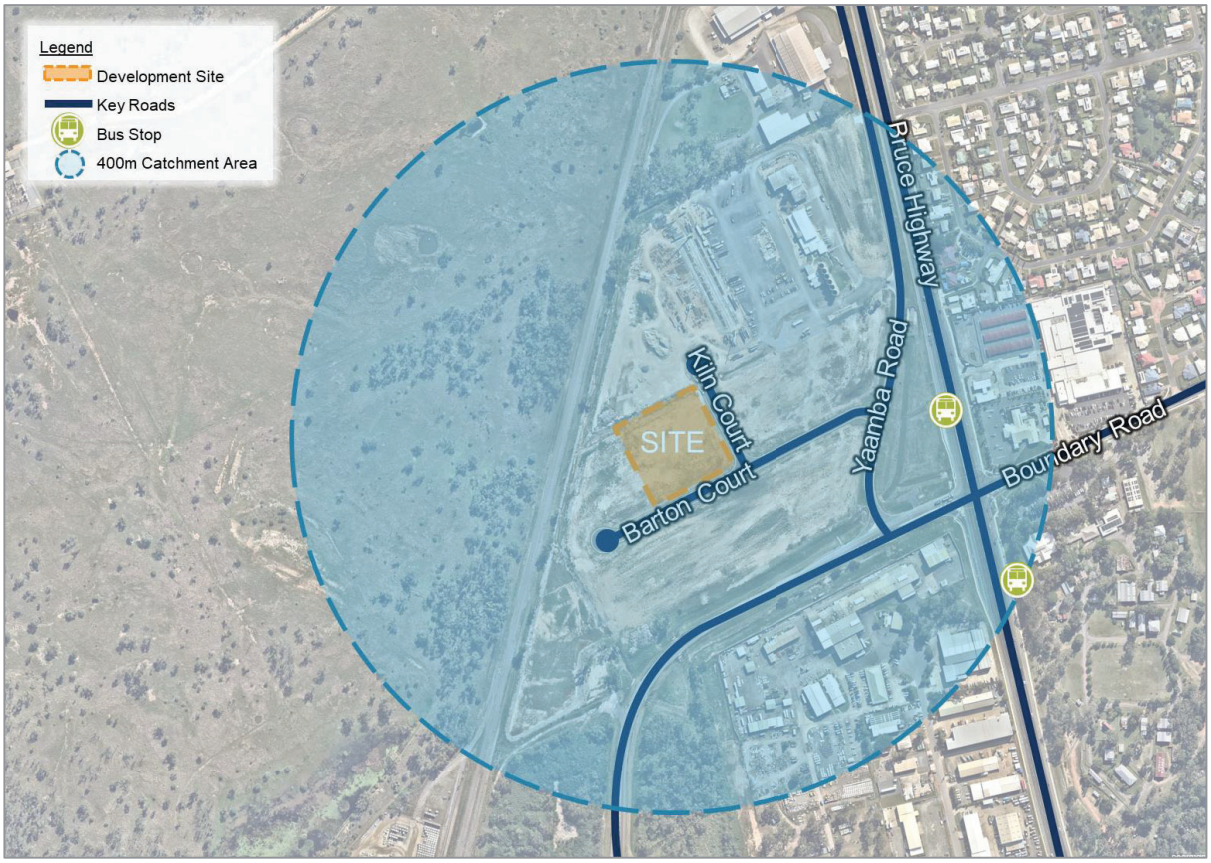
2.2 Existing Land Uses

The site is currently unoccupied, and is accessed via Barton Court and Kiln Court.

2.3 Public Transport Facilities

The development site is serviced by the existing public transport network, being located within a 400m radius of two bus stops serviced by bus route 410. The nearby bus stops and key characteristics have been shown on Figure 2-2 and Table 2-2.

Figure 2-2 Public Transport Facilities



Source: Nearmap

Table 2-2 Bus Route Key Characteristics

Route	Destinations	Peak Frequency	Serviced Bus Stops
410	Parkhurst to City Centre via Stockland	60 minutes	Yaamba Road at Boundary Road ID: 860643
			Yaamba Road at Boundary Road ID: 860317

2.4 Active Transport Facilities

The development site has pedestrian footpaths and cyclist lanes along the major roads surrounding the site. While it is noted that the direct site frontage and connecting roads do not have active transport facilities as the area is still being developed, the cyclist lanes and pedestrian footpaths along the major roads provide access to the broader active transport network.

The active transport facilities have been shown on Figure 2-3.

Figure 2-3 Pedestrian and Cyclist Facilities

Source: Nearmap

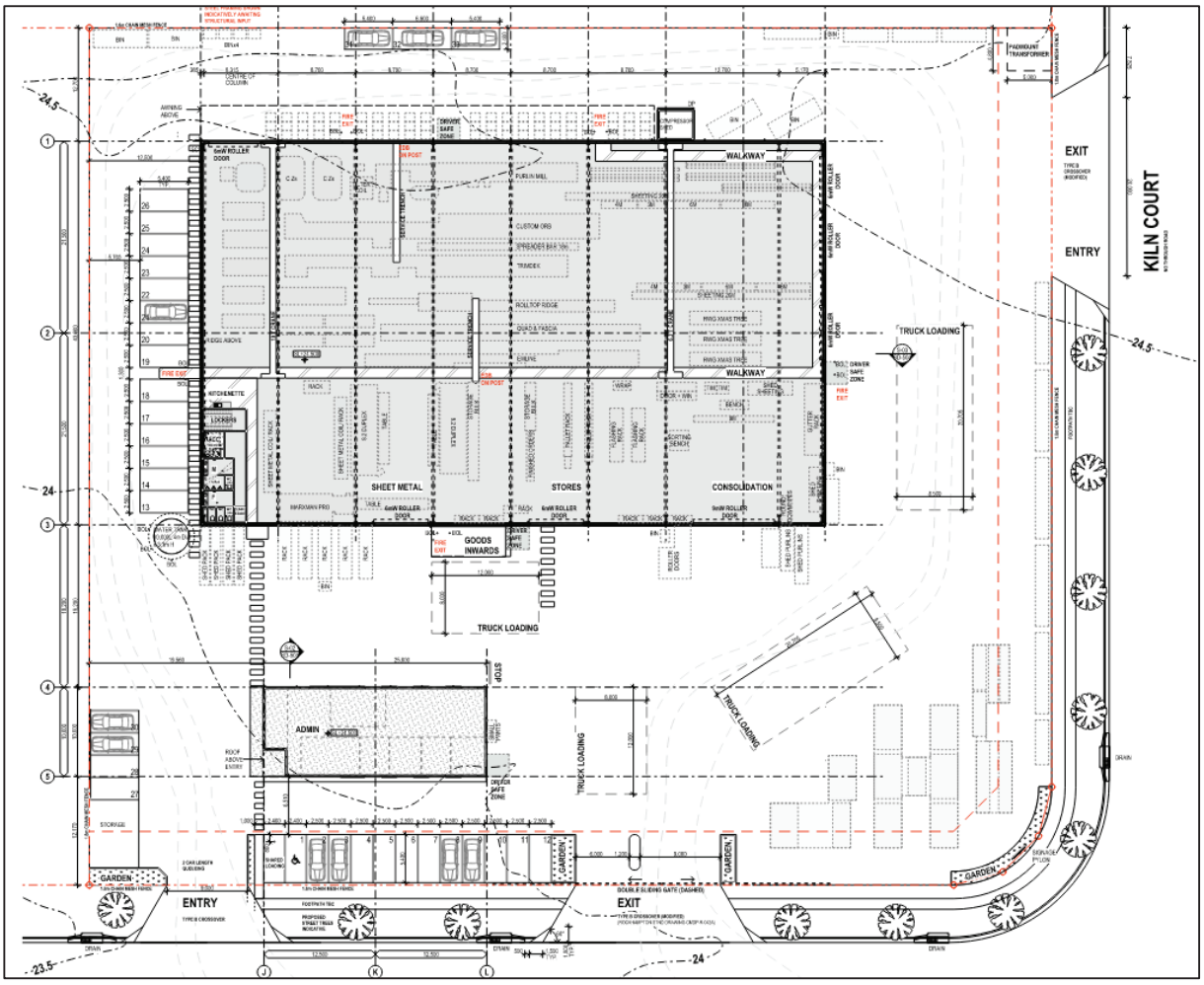
3 Proposed Development

3.1 Proposed Yield

The proposed development consists of a warehouse of 3,262m^2 GFA.

Figure 3-1 illustrates the proposed site layout. Detailed plans for the development are enclosed in Appendix A.

Figure 3-1 Proposed Site Layout \



3.2 Design Considerations Overview

Cardno has undertaken a detailed review of the proposed site layout to ensure compliance with relevant standards and guidelines, including:

- Rockhampton Regional Council Planning Scheme
- Australian Standards: Parking Facilities Part 1 - Off-street Car Parking (AS2890.1) 2004

The review focused on site access, parking provision, carpark design and servicing.

3.3 Access

3.3.1 Crossover

In accordance with AS2890.1, the access should be designed on the basis of the following characteristics:

- Parking facility class 1 (employees) and class 2 (visitors)

- Local road frontage
- 33 parking spaces (between 25 to 100)

On the basis of the above, Table 3-1 summarises the access requirements.

Table 3-1 Access Design Compliance

Access Facility	Design Criteria	Proposed Design	Council Compliant
Category 2	6.0m to 9.0m	Barton Court Entry: 9.0m Barton Court Exit: 6.0m, 9.0m Kiln Court Combined Entry / Exit: 20.0m	✓

The development proposes separate entry and exit driveways on Barton Court, and a combined entry/exit on Kiln Court.

- The Barton Court entry driveway is proposed to be 9.0m wide.
- The Barton Court egress driveway has been designed with a 1.2m wide median separating two exit lanes of 6.0m and 9.0m width. It is proposed that the 6.0m wide exit lane will accommodate standard cars and smaller trucks for the site such as HRVs, while the 9.0m wide exit lane will service larger vehicles such as 20m AVs and 26m B-Doubles. Separation of light and heavy vehicles is encouraged to increase safety.
- The Kiln Court driveway consists of a 20m wide combined entry and exit.

All access driveways either satisfy or exceed the design criteria, and provide sufficient space for the largest anticipated vehicle to safely access and manoeuvre the site. Therefore, the access design is suitable for the proposed development.

3.3.2 Location

In accordance with the Rockhampton Regional Council Transport Code, access driveways are not to be located within 20m of an unsignalised road intersection in an industrial zone. There is greater than 20m spacing between all access driveways and the nearest unsignalised intersection, therefore satisfying the minimum requirements.

3.3.3 Sight Distance

In accordance with AS2890.1, the minimum sight distance requirement is 45m (for a posted speed limit of 50km/h), measured 2.5m back from the edge of frontage road. There is sufficient sight distance at all access driveways to observe oncoming traffic from both directions.

3.3.4 Queueing Provision

In accordance with Table 3.3 of AS2890.1, it is indicated that for parking areas with not more than 100 parking spaces, there is a queueing requirement of the greater of a minimum of 2 cars or 3% of capacity. Accordingly, this development requires a minimum of 2 vehicles' queuing length to be accommodated. The proposed development provides for queuing of more than two vehicles, therefore the queueing provision is acceptable.

3.4 Parking Provision

3.4.1 Car Parking Requirement

In accordance with the Rockhampton Regional Council access, parking and transport code, the car parking requirements have been summarised in Table 3-2 below.

Table 3-2 Car Parking Requirements

Land Use	Yield	Car Parking Rate	Car Parking Requirement
Warehouse	3,262m^2 GFA	One (1) space per 100 square metres of part thereof of gross floor area	33 car parking spaces

3.4.2 Car Parking Adequacy (waiting on updated plans for 33 car parking spaces)

As shown in Table 3-2 above, application of the above parking rate indicates that the proposed development requires a minimum of 33 car parking spaces. Development plans indicate that 33 car parking spaces are provided on site. Therefore, the car parking supply is sufficient for the development.

3.5 Design Review

Cardno has conducted a design review of the car park against the relevant design guidelines, and the compliance has been summarised in Table 3-3.

Table 3-3 Car Park Design Compliance

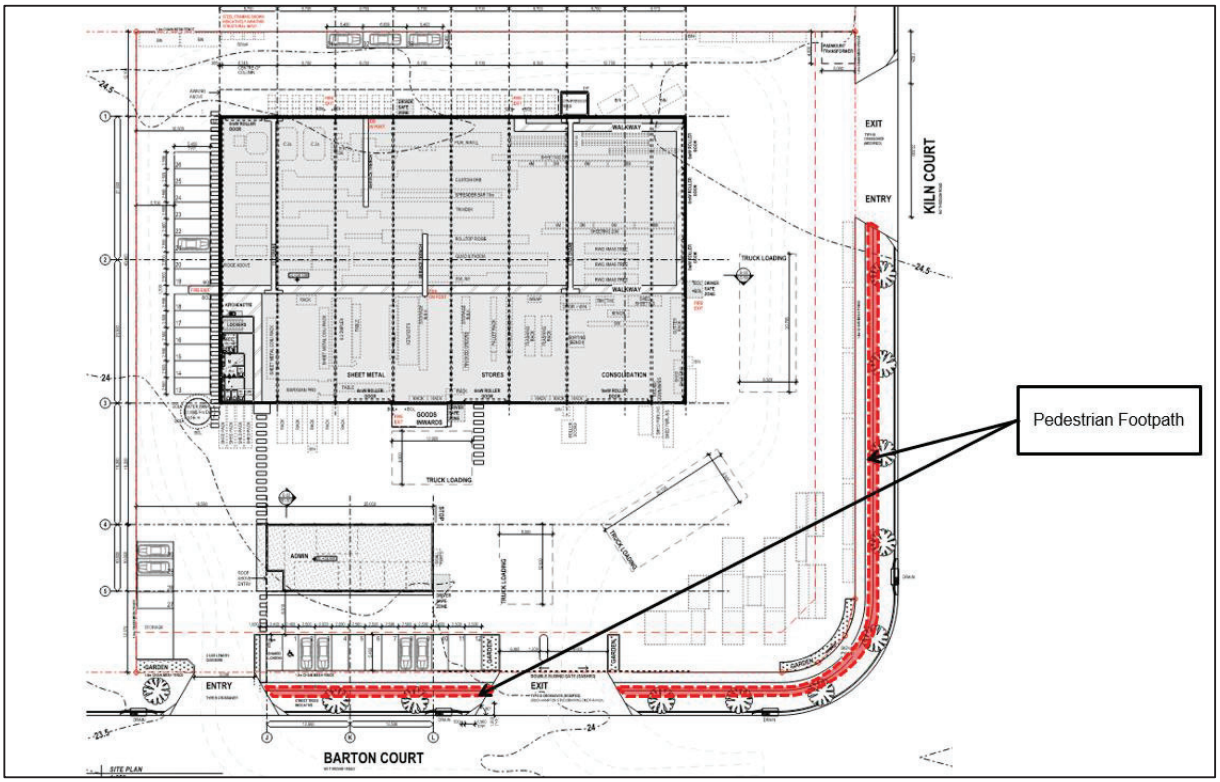
Design Criteria Description	AS2890.1 Standard	Proposed Design	AS2890.1 Compliant
Bay length – standard	5.4m	5.4m	✓
Bay width	2.4m - 2.5m	2.5m	✓
Bay width – PWD (including shared zone)	2.4m plus 2.4m shared zone	2.4m plus 2.4m shared zone	✓
Aisle width (class 2)	5.8m	Minimum 6.51m	✓
Service bay – AV	3.5m x 19.0m	8.5m x 20.705m	✓

The results in Table 3-3 indicate that the proposed car parking design complies with the requirements outlined in AS2890.1.

3.6 Pedestrian Connectivity

It is noted that there are no existing footpaths directly surrounding the development at time of writing. However, the development proposes pedestrian footpaths along the site frontage on Barton Court and Kiln Court. It is expected that these provisions will enable potential connections to the greater pedestrian / cycle network in the future, as illustrated on Figure 3-2 below.

Figure 3-2 Pedestrian Connectivity



3.7 Servicing

3.7.1 Design Vehicle

Council's Transport Code does not specify a minimum class of service vehicle for the proposed development. The largest design vehicle expected at the development is a 26m B-Double. Therefore, the site has been designed to accommodate this vehicle.

3.7.2 Swept Path Assessment

A swept path assessment has been undertaken for a 26m B-Double as well as a 20m Articulated Vehicle (AV). The swept paths indicate that the design vehicles can safely and efficiently access and manoeuvre on / off the site.

Refer to Appendix B for swept path assessment.

4 Traffic Impact

The proposed development consists of a warehouse of 3,262m^2 GFA. Application of the adopted peak trip generation rate has been summarised in Table 4-1, which has been sourced from the RTA Guide to Traffic Generating Developments.

Table 4-1 Trip Generation

Land use	Yield	Peak Generation Rate	Peak Generation
Warehouse	3,262m^2 GFA	0.5 trips per hour per 100m^2 gross floor area	17 vph

As shown in Table 4-1, the proposed development is anticipated to generate a total of 17vph during the peak periods, which is considered to have a negligible traffic impact on the operation of the road network.

5 Conclusions and Recommendations

Cardno has been engaged by TPM Builders to provide traffic and transport engineering advice in relation to the proposed warehouse development located at Lot 3 on SP 326319 at Barton Court, Parkhurst.

Based on our assessment, Cardno has the following findings:

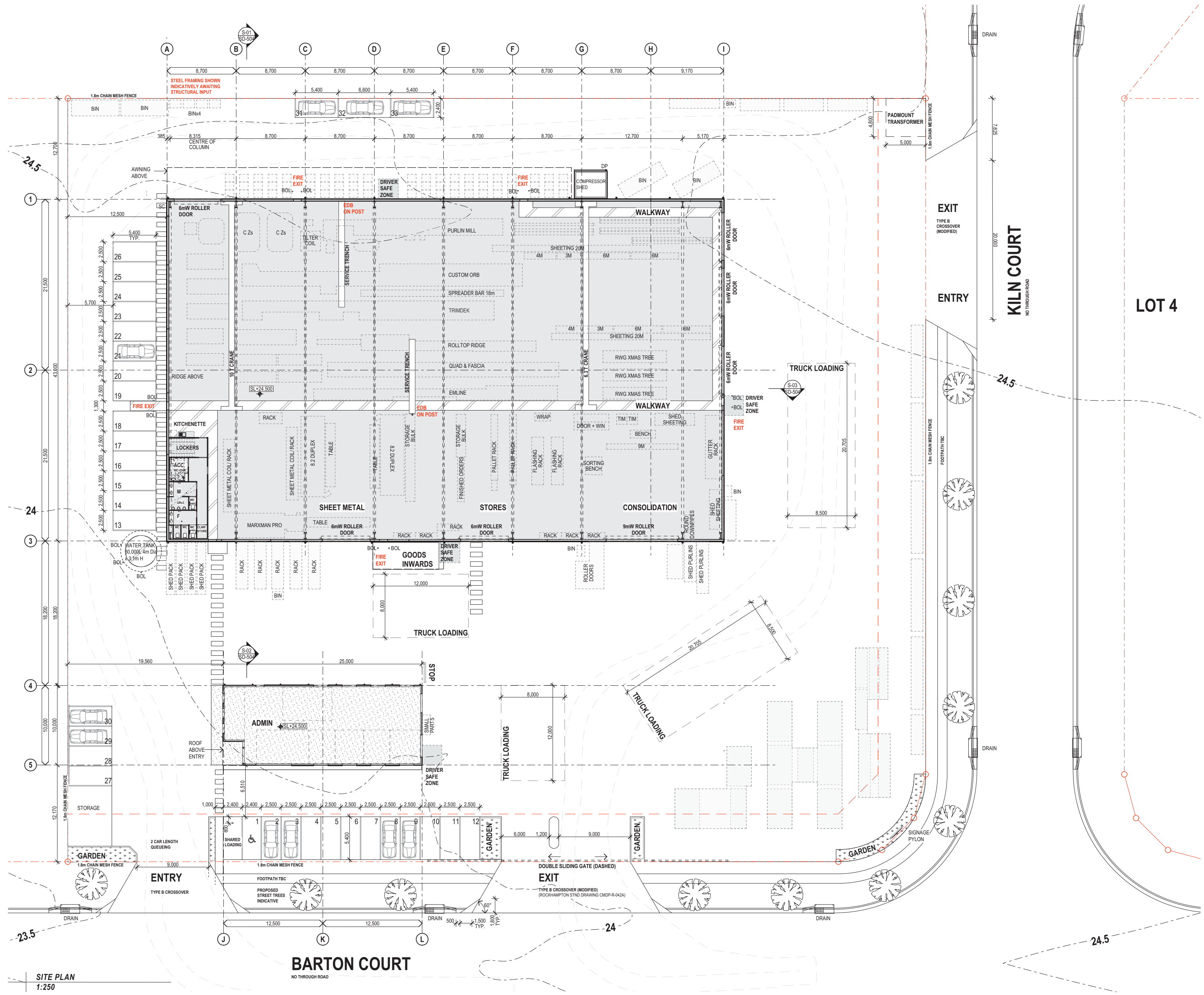
- The proposed development consists of a warehouse of 3,262m^2 GFA.
- Access to the development is gained via both Barton Court and Kiln Court frontages. The Barton Court entry is 9.0m wide, the Barton Court exit has lanes of 6.0m and 9.0m width, and Kiln Court has a combined entry/exit of 20.0m width. All crossovers are compliant with Australian Standards requirements.
- The locations of the accesses are at least 20m from the nearest unsignalised intersection in accordance with the Rockhampton Regional Council requirements, and provide at least 45m sight distance to observe oncoming traffic in both directions in line with Australian Standards requirements.
- The proposed development provides sufficient queueing at all accesses.
- The parking requirements indicate a minimum parking requirement of 33 car spaces. Development plans indicate that these are provided, therefore the car parking supply is compliant with Council requirements.
- The carpark design is compliant with Australian Standards.
- A swept path assessment has been undertaken which indicates that a 20m AV and a 26m B-Double can access the site as required. Additionally, the carpark swept paths indicate that all design vehicles can safely and efficiently manoeuvre on and off the site.
- The proposed development is anticipated to generate 17vph during the peak periods, which is considered to have a negligible traffic impact on the operation of the road network.

Based on the above, Cardno believe that the development is suitable from a traffic engineering perspective.

Bluescope, Rockhampton

APPENDIX A

DEVELOPMENT PLANS



SITE ADDRESS
BARTON COURT, PARKHURST ROCKHAMPTON, Q 4702

LOCAL COUNCIL:
ROCKHAMPTON REGIONAL COUNCIL

RPD
LOT 3 ON SP 326319

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GFA
WAREHOUSE - 3,013m2
ADMIN BUILDING - 243m2

TOTAL GFA= 3,256m2

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P3	23.06.22	SH	PRELIMINARY ISSUE	GT
P4	07.07.22	SH	PRELIMINARY ISSUE	GT

BARTON COURT WAREHOUSE

DRAWING
SITE PLAN

PROJECT NO. **2790-262**
DRAWING NO. **SD-101**
ISSUE **P4**

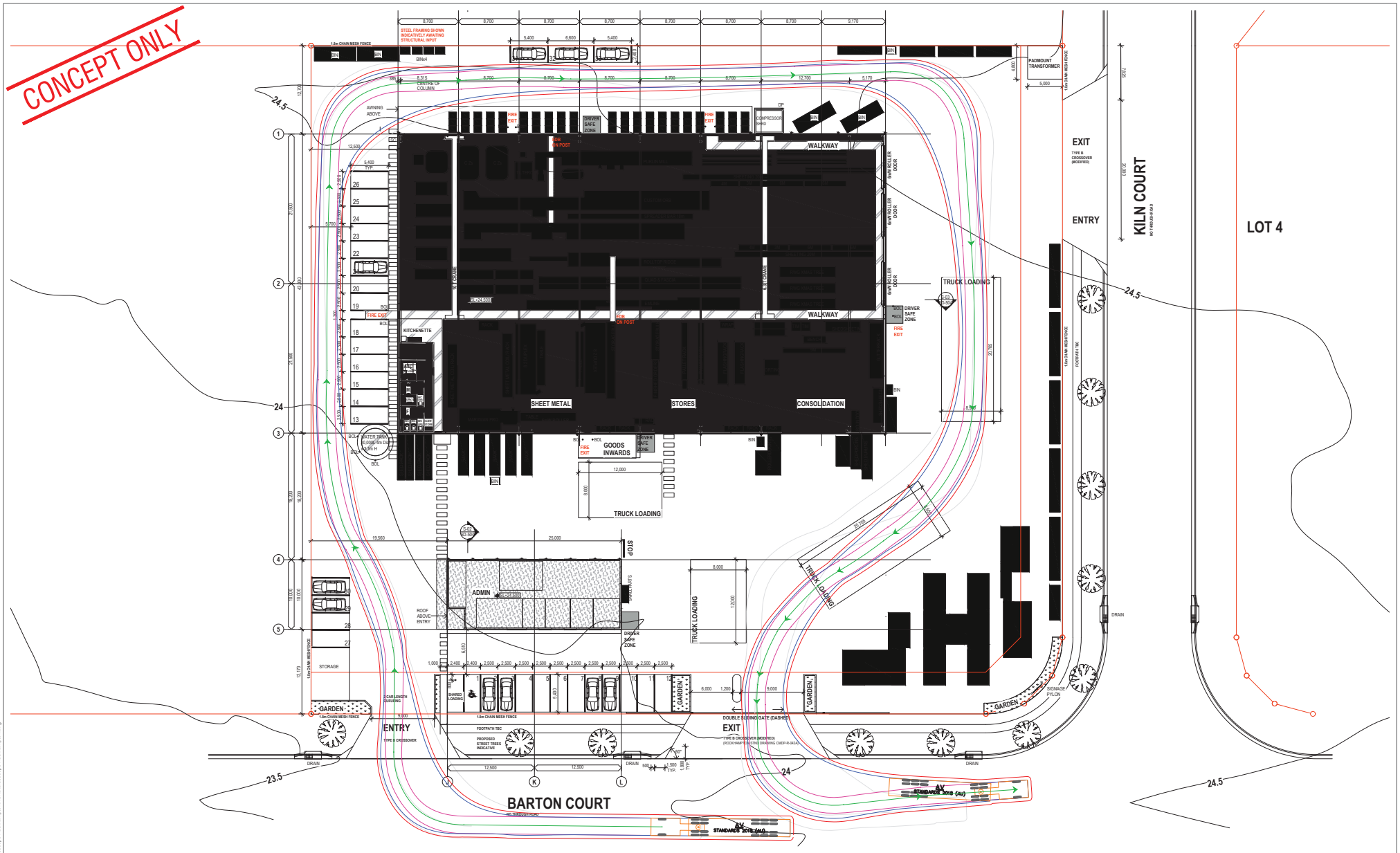
Document Set ID: 39376235
Version: 1, Version Date: 26/10/2022

Bluescope, Rockhampton

APPENDIX B

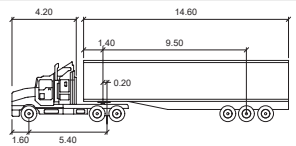
SWEPT PATH ASSESSMENT

CONCEPT ONLY



SWEPT PATH LEGEND

- VEHICLE BODY
- FRONT TIRES
- VEHICLE PATH
- VEHICLE CLEARANCE (500mm)
- VEHICLE



20M AV

	meters
Tractor Width	: 2.50
Trailer Width	: 2.50
Tractor Track	: 2.50
Trailer Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 28.3
Articulating Angle	: 72.0

NORTH

0 5 10 15 20 25m

SCALE 1:500 @ A3

Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 11, 515 St Paul's Terrace
Fortitude Valley, QLD 4006
Tel: 07 3369 9822 Fax: 07 3369 9722
Web: www.cardno.com.au

TPM Builders
Bluescope Rockhampton
Access Review
20m AV Swept Path

Drawn	Date	Scale	Size
J.Ting	02/08/2022	1:500	A3

Drawing Number: SK02
Revision: B

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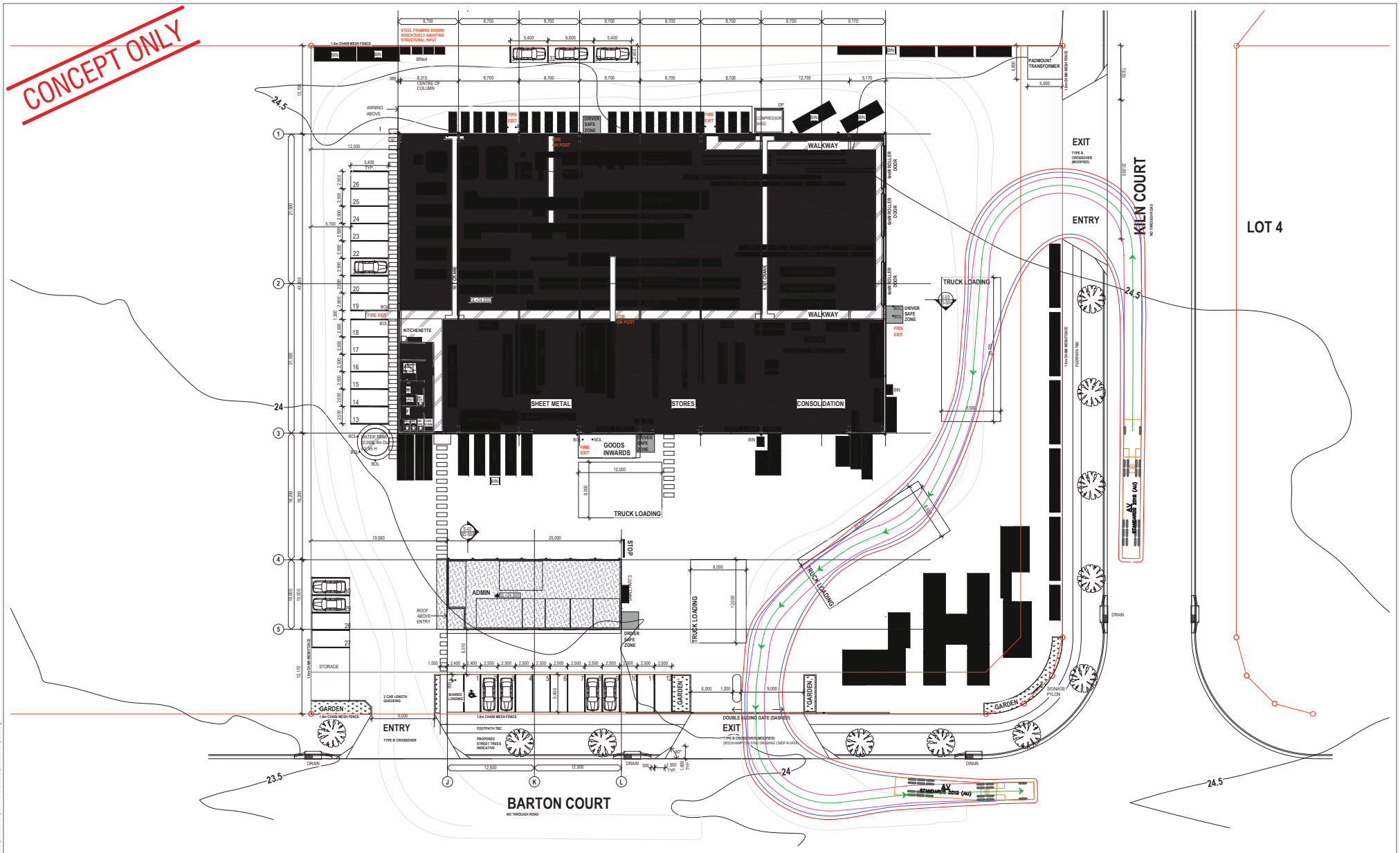
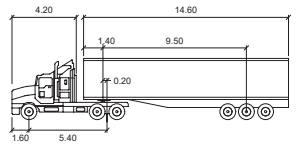
Imagery supplied by nearmap - June 2022

CONCEPT ONLY



SWEPT PATH LEGEND

- VEHICLE BODY
- FRONT TIRES
- VEHICLE PATH
- VEHICLE CLEARANCE (500mm)
- VEHICLE



20M AV

	meters
Tractor Width	: 2.50
Trailer Width	: 2.50
Tractor Track	: 2.50
Trailer Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 28.3
Articulating Angle	: 72.0

NORTH

0 5 10 15 20 25m

SCALE 1:500 @ A3

Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 11, 515 St Paul's Terrace
Fortitude Valley, QLD 4006
Tel: 07 3369 9822 Fax: 07 3369 9722
Web: www.cardno.com.au

TPM Builders
Bluescope Rockhampton
Access Review
20m AV Swept Path

Drawn	Date	Scale	Size
J.Ting	02/08/2022	1:500	A3

Drawing Number: SK03
Revision: B

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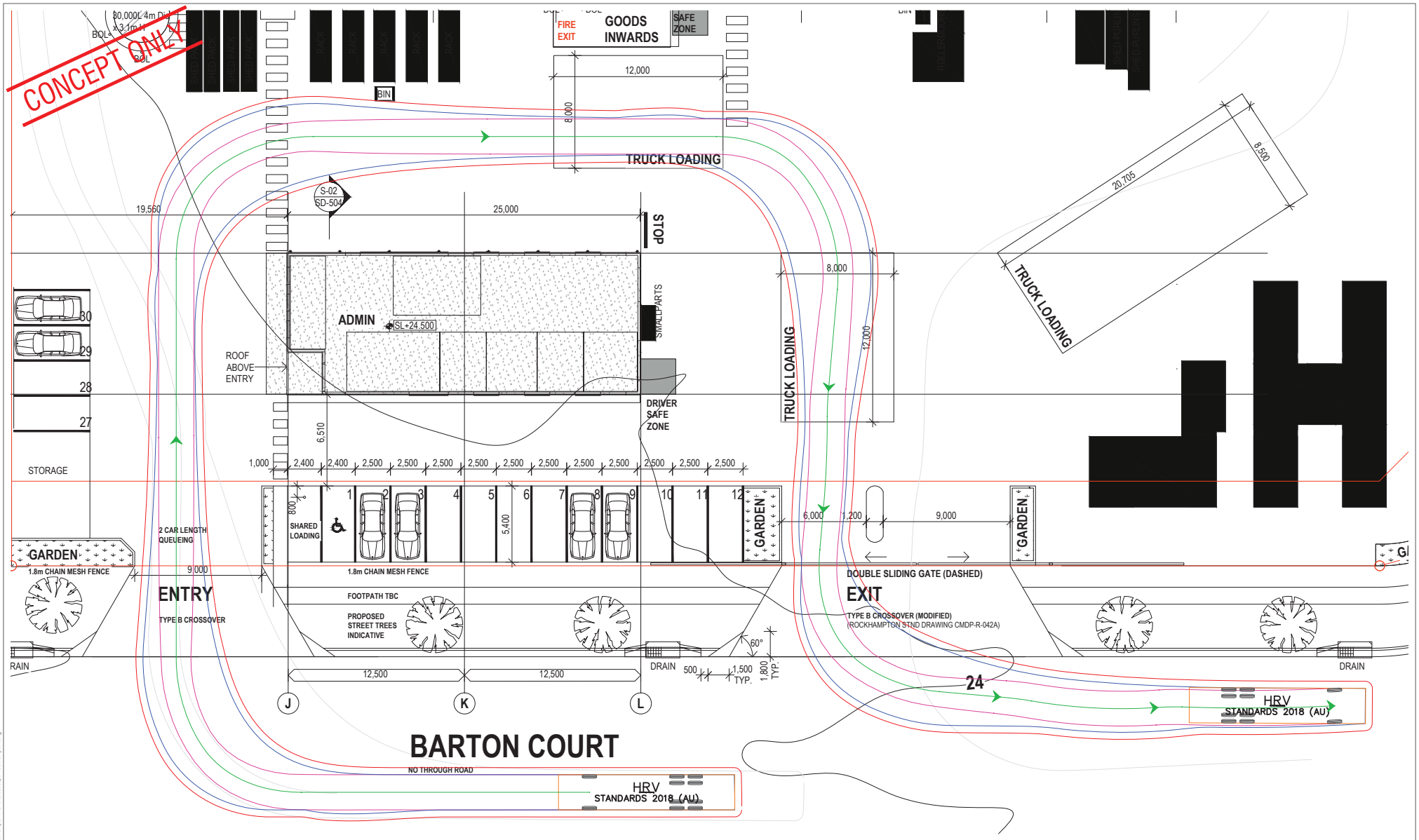
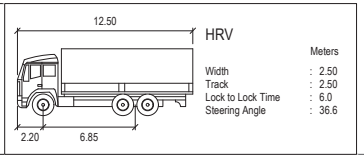
Imagery supplied by nearmap - June 2022



SWEPT PATH LEGEND

- VEHICLE BODY
- FRONT TIRES
- VEHICLE PATH
- VEHICLE CLEARANCE (500mm)
- VEHICLE



HRV

Meters	
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6

SCALE 1:250 @ A3

Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 11, 515 St Paul's Terrace
Fortitude Valley, QLD 4006
Tel: 07 3369 9822 Fax: 07 3369 9722
Web: www.cardno.com.au

TPM Builders
Bluescope Rockhampton
Access Review
HRV Swept Path

Drawn	Date	Scale	Size
J.Ting	02/08/2022	1:250	A3

Drawing Number: SK04
Revision: B

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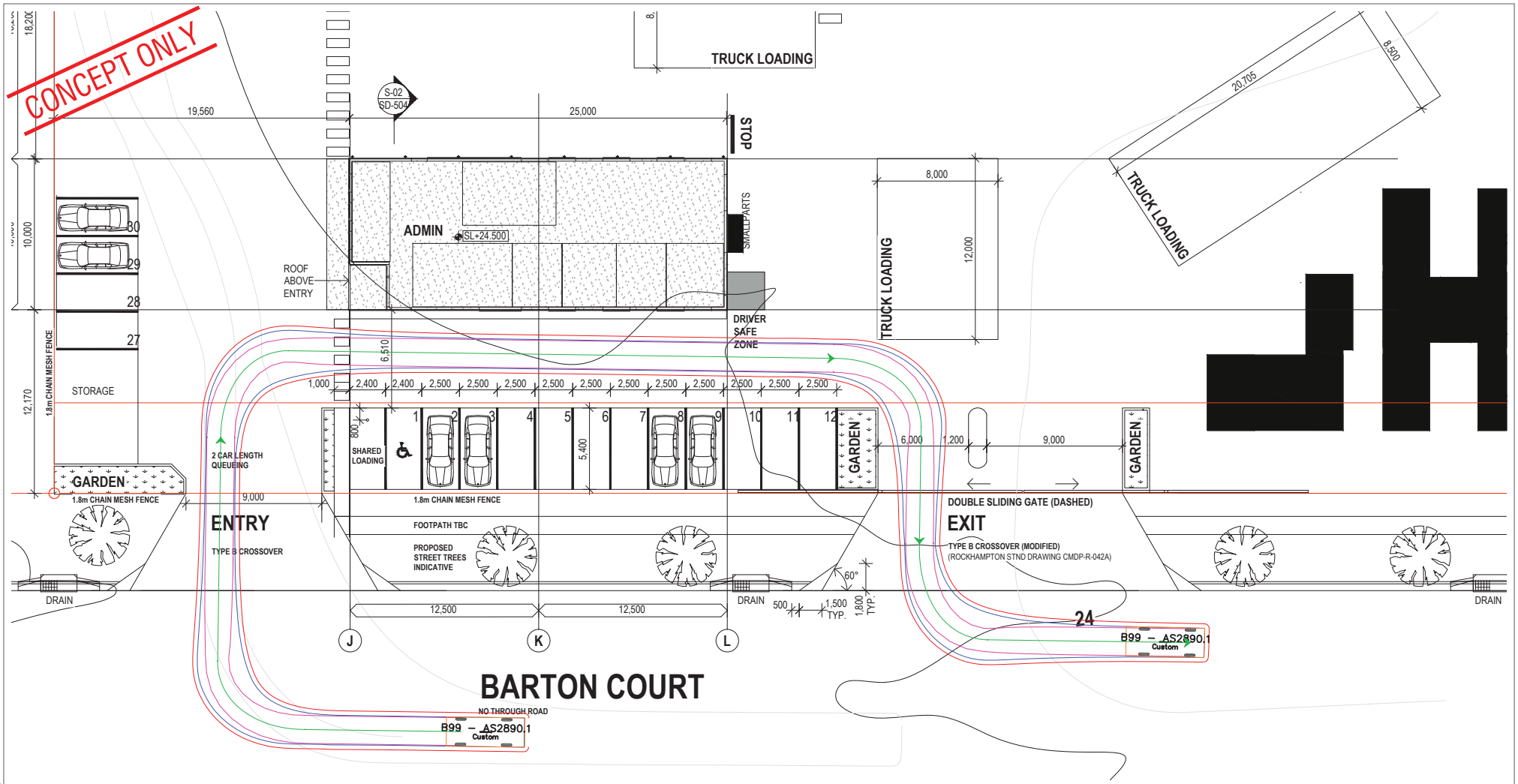
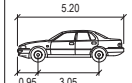


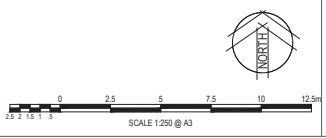
SWEPT PATH LEGEND

- VEHICLE BODY
- FRONT TIRES
- VEHICLE PATH
- VEHICLE CLEARANCE (300mm)
- VEHICLE



B99

	Meters
Width	: 1.94
Track	: 1.84
Lock to Lock Time	: 6.0
Steering Angle	: 40.0



Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 11, 515 St Paul's Terrace
Fortitude Valley, QLD 4006
Tel: 07 3369 9822 Fax: 07 3369 9722
Web: www.cardno.com.au

TPM Builders
Bluescope Rockhampton
Access Review
B99 Swept Path

Drawn	Date	Scale	Size
J.Ting	02/08/2022	1:250	A3

Drawing Number: SK05
Revision: B

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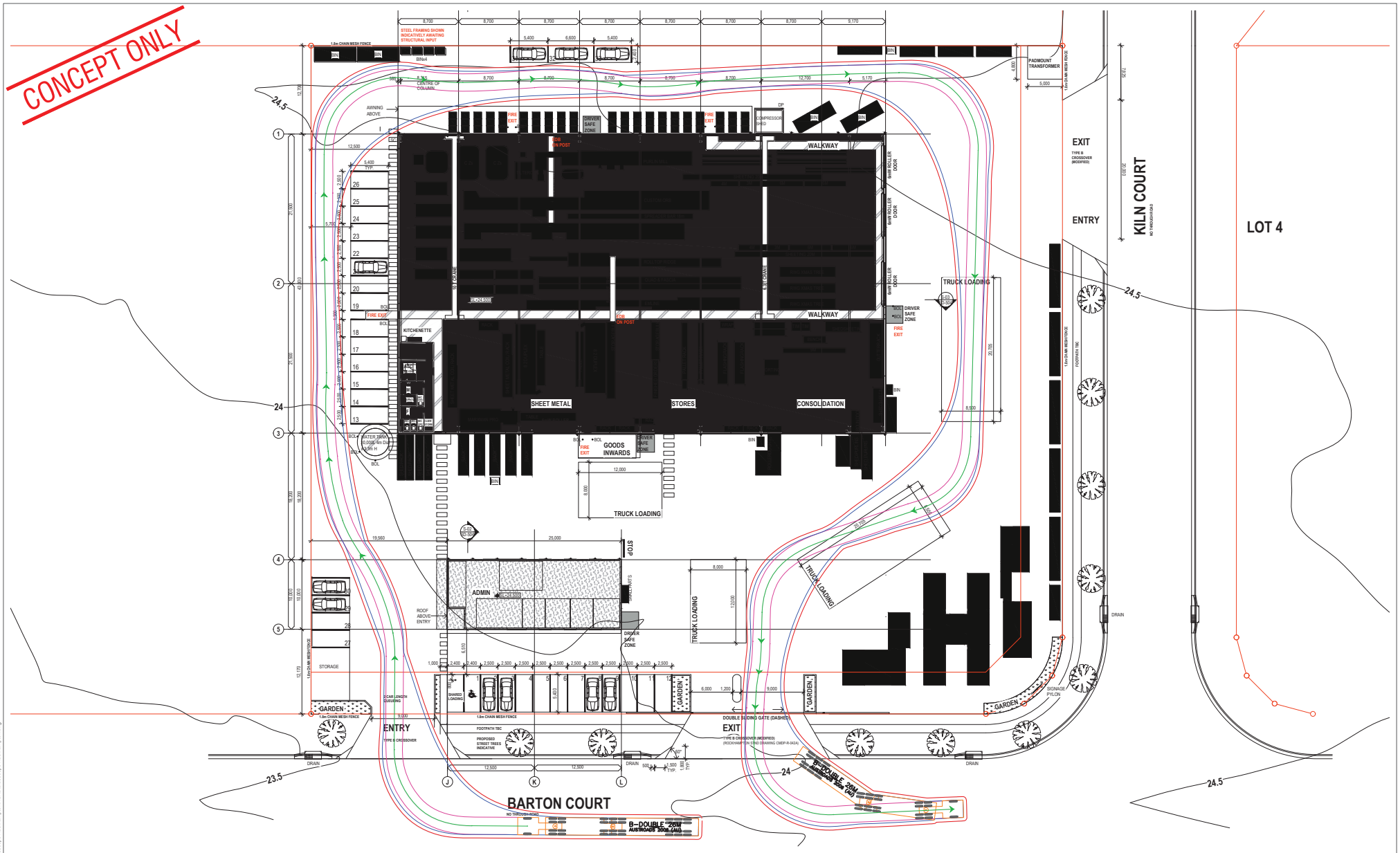
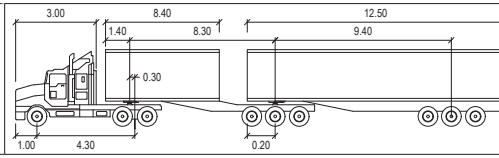
Imagery supplied by nearmap - June 2022



SWEPT PATH LEGEND

- VEHICLE BODY
- FRONT TIRES
- VEHICLE PATH
- VEHICLE CLEARANCE (500mm)
- VEHICLE



B-DOUBLE 26M

Meters	
Tractor Width	: 2.50
Trailer Width	: 2.50
Tractor Track	: 2.50
Trailer Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 22.2
Articulating Angle	: 70.0

Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 11, 515 St Paul's Terrace
Fortitude Valley, QLD 4006
Tel: 07 3369 9822 Fax: 07 3369 9722
Web: www.cardno.com.au

TPM Builders
Bluescope Rockhampton
Access Review
26m B-Double Swept Path

Drawn	Date	Scale	Size
J.Ting	02/08/2022	1:500	A3

Drawing Number: SK06
Revision: B

C:\3D File G\ Jobs with no reference numbers\ Bluescope Rockhampton\ACAD\Bluescope Rockhampton.dwg

Imagery supplied by nearmap - June 2022

URBIS

LEVEL 32
300 GEORGE STREET
BRISBANE QLD 4000

URBIS.COM.AU
Urbis Pty Ltd
ABN 50 105 256 228

17 October 2022

Anthony Collins
TPM Builders
PO Box 7234
Brendale QLD 4500

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/114-2022

Dated: 5 December 2022

Dear Anthony,

BLUESCOPE LYSAGHT - BARTON COURT, PARKHURST RESPONSE TO INFORMATION REQUEST - B-DOUBLE SWEPT PATHS

Urbis has been engaged to prepare traffic engineering advice for the proposed industrial development at Barton Court, Parkhurst, north of Rockhampton. As part of the application (application reference D/114-2022), an Information Request was issued by Rockhampton Regional Council (RRC). Item 3 of the Information Request is outlined below:

> *3. Please provide detailed scaled plans which demonstrate turning movements / swept paths of the passenger vehicle, refuse collection vehicle and the largest vehicle to be used to supply and remove goods or services.*
>
> *Note: If the proposal is to be serviced by B-double, then please provide the vehicle swept paths, for both movements, at the following intersections:*
> - *Access driveway I Kiln Court*
> - *Access driveway(s) I Barton Court*
> - *Barton Court I Kiln Court*
> - *Barton Court I Yaamba Road Service Road*
> - *Service Road I Boundary Road.*

It is understood that the swept paths for the access driveways at Kiln Court and Barton Court have been completed and demonstrated with the Traffic Impact Assessment (TIA) prepared by Cardno. Therefore, assessment of these accesses has not been prepared for this response.

This response concerns the B-double swept paths, as the largest vehicle to access the site. The swept paths of the external road network (Barton Court / Kiln Court, Yaamba Road Service Road, Boundary Road and Yaamba Road) have been demonstrated at the drawings enclosed. These demonstrate that a 25m B-double vehicle is able to adequately travel through the external road network without conflicting with road infrastructure or other road users.

It is noted that Yaamba Road and Boundary Road are approved B-double routes. The swept paths demonstrate a B-double path turning into and out of the Yaamba Road / Boundary Road intersection to / from both the north and south, as well as to / from the west via Boundary Road.

Kind regards,

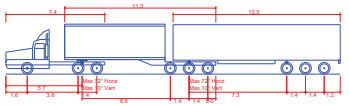
Alice Shi
Associate Director, RPEQ 22028
+61 7 3007 3831
ashi@urbis.com.au

Enc: Swept path drawings

Vehicle Body

Line for vehicle Body

500mm Clearance line for vehicle Body



B-Double (25.0m) (abs min radius)

Overall Length	25.000m
Overall Width	2.500m
Overall Body Height	3.736m
Min Body Ground Clearance	0.417m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

ALL DRAWINGS ARE DESIGNED TO BE PRINTED AND READ IN COLOUR

IT IS THE CONTRACTORS' RESPONSIBILITY TO PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE

URBIS

Level 32, 300 George Street | Brisbane QLD 4000 Australia | +61 7 3007 3800 | URBIS Pty Ltd | ABN 50 105 256 228

DATA SOURCE

P0038823 - Bluescope Steel Warehouse Parkhurst

PROJECTION

Drawing number - 38823 - 01

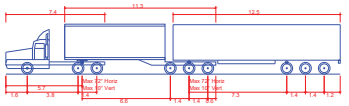
REV	DESCRIPTION	DWN	CHK	DATE
		RD	AJ	6/10/2022

SET DRAWING SCALE

Vehicle Body

Line for vehicle Body

500mm Clearance line for vehicle Body



B-Double (25.0m) (abs min radius)

Overall Length	25.000m
Overall Width	2.500m
Overall Body Height	3.736m
Min Body Ground Clearance	0.417m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

ALL DRAWINGS ARE DESIGNED TO BE PRINTED AND READ IN COLOUR

IT IS THE CONTRACTORS' RESPONSIBILITY TO PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE

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DATA SOURCE

P0038823 - Bluescope Steel Warehouse Parkhurst

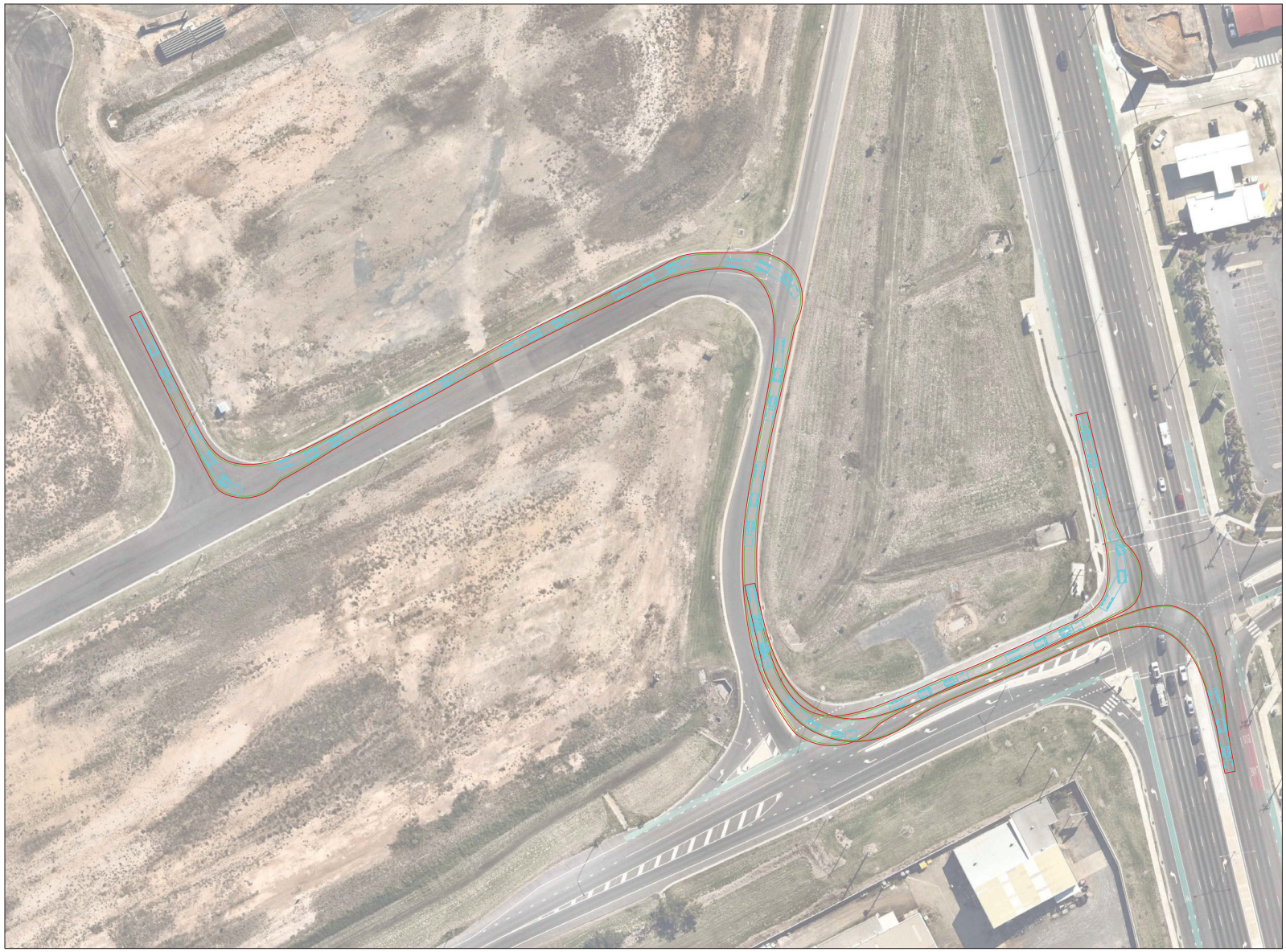
PROJECTION

Drawing number - 38823 - 02

REV	DESCRIPTION	DWN	CHK	DATE
		RD	AJ	6/10/2022

DISCLAIMER

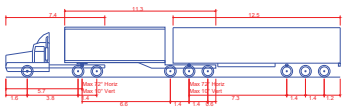
SET DRAWING SCALE



Vehicle Body

Line for vehicle Body

500mm Clearance line for vehicle Body



B-Double (25.0m) (abs min radius)

Overall Length	25.000m
Overall Width	2.500m
Overall Body Height	3.736m
Min Body Ground Clearance	0.417m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

ALL DRAWINGS ARE DESIGNED TO BE PRINTED AND READ IN COLOUR

IT IS THE CONTRACTORS' RESPONSIBILITY TO PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE

URBIS

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DATA SOURCE

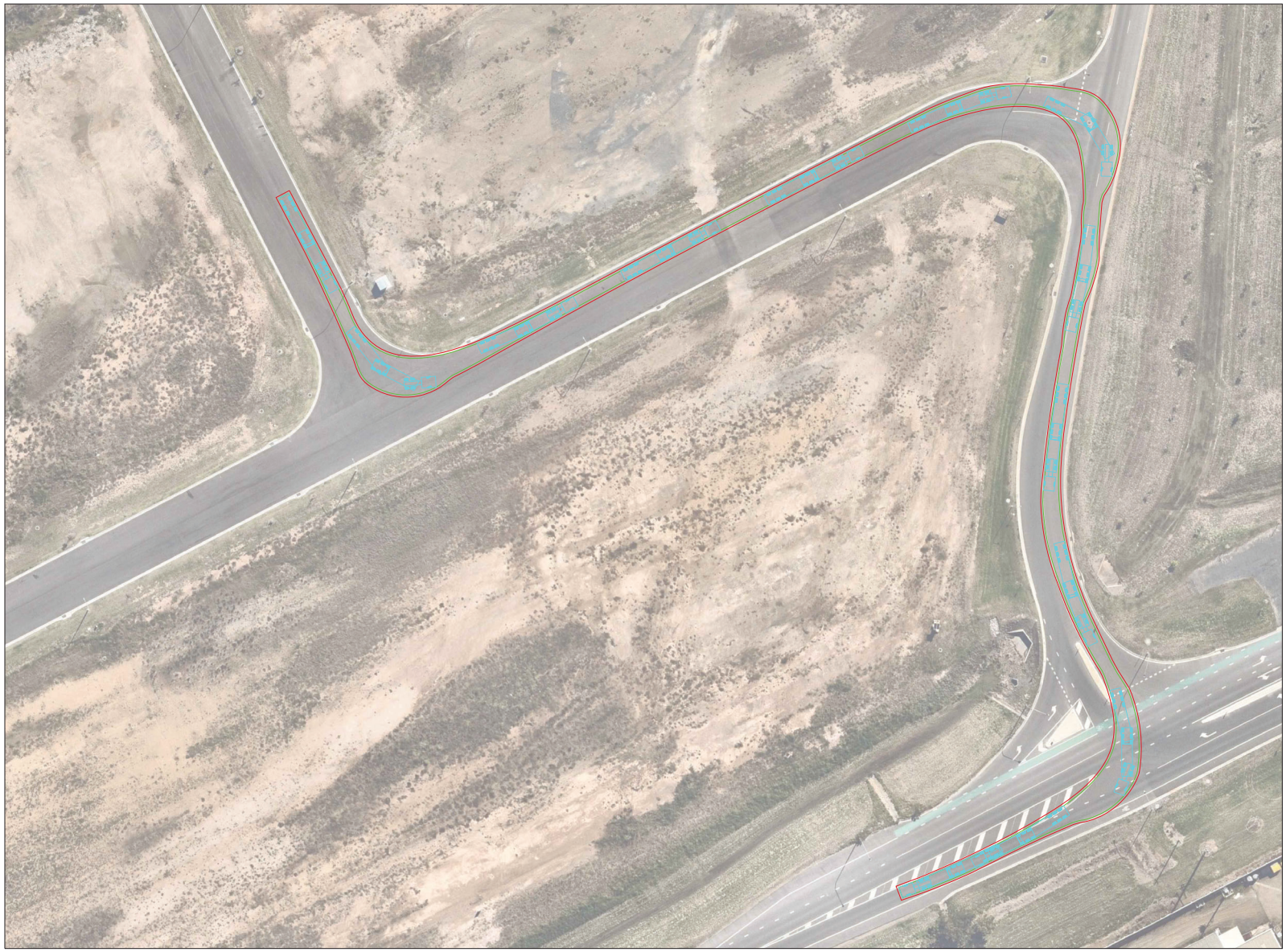
P0038823 - Bluescope Steel Warehouse Parkhurst

PROJECTION

Drawing number - 38823 - 03

REV	DESCRIPTION	DWN	CHK	DATE
		RD	AJ	6/10/2022

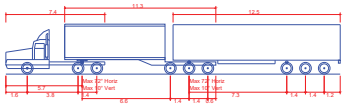
SET DRAWING SCALE



Vehicle Body

Line for vehicle Body

500mm Clearance line for vehicle Body



B-Double (25.0m) (abs min radius)

Overall Length	25.000m
Overall Width	2.500m
Overall Body Height	3.736m
Min Body Ground Clearance	0.417m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

ALL DRAWINGS ARE DESIGNED TO BE PRINTED AND READ IN COLOUR

IT IS THE CONTRACTORS' RESPONSIBILITY TO PRINT DRAWINGS IN COLOUR TO AVOID ANY POTENTIAL DISCREPANCIES IF DRAWINGS ARE PRINTED IN BLACK AND WHITE

URBIS

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DATA SOURCE
P0038823 - Bluescope Steel Warehouse Parkhurst

PROJECTION
Drawing number - 38823 - 04

REV	DESCRIPTION	DWN	CHK	DATE
		RD	AJ	6/10/2022

SET DRAWING SCALE

Engineering Report

10 Barton Court, Parkhurst
Rockhampton QLD 4702

Prepared for: TPM Builders

Job Reference Number – 10371

Revision C

Date: 19 October 2022

ROCKHAMPTON REGIONAL COUNCIL

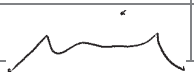
APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/114-2022

Dated: 5 December 2022

Document Status

Rev No	Author	Reviewer	Approved for Issue			
			Name	Signature	RPEQ	Date
A	Hilton Reid	Joshua Falco	Hilton Reid		2098	24/08/2022
B	Hilton Reid	Joshua Falco	Hilton Reid		2098	29/8/2022
C	Hilton Reid	Joshua Falco	Hilton Reid		2098	19/10/2022

Distribution

Rev No	Date	Issue	Issued To	Format
A	24/08/2022	TPM Builders	Anthony Collins	PDF
B	29/8/2022	TPM Builders	Anthony Collins	PDF
B	29/8/2022	Urbis	Michael Cantoni	PDF
C	19/10/2022	TPM Builders	Anthony Collins	PDF
C	19/10/2022	Urbis	Rachael Greene	PDF

TABLE OF CONTENTS

1 General

The site is part of Stage 3 of the Lily Place Estate, located at the corner of Barton Court and Kiln Court, RPD Lot 3 on SP326319. The Site Locality Plan is contained in Appendix A.

2 Existing Services

Existing services have been provided at subdivision stage. Details of these services, obtained from the Operational Works Drawings, are contained in Appendix B.

3 Earthworks

The site falls gently towards the southeastern corner of the lot. The workshop Ground Floor Level has been set at RL 27.70, approximately 300mm above the ground level under the building footprint. Therefore, only minimal earthworks will be required to achieve the design levels shown on the Civil Site Plan contained in Appendix C.

4 Flooding

The Developed 1% AEP Flood Mapping Plan is contained in Appendix D. It appears that the terrain on which the mapping is imposed is that prior to the subdivision earthworks being carried out. In the location of the estate detention basin a flood level of RL21.99 is marked.

Flood levels in the open channels servicing the Estate are also contained in Appendix D. The CH500 Cross Section in Channel 3, located at the head of the detention basin has a 1%AEP level of approximately RL21.9, which closely corresponds to the Flood Mapping level in this location. The CH 150 Cross Section in Channel 4, adjacent to the northeastern corner of the site has a 1%AEP level of approximately RL24.0, which of necessity must be higher than the corresponding flood level in Barton Court.

The Ground Floor Levels of the office and workshop have been set at RL 24.5 and RL24.7 respectively. They therefore more than the 500mm freeboard required by PSP SC6.18.5.6

5 Water Quantity

The Estate stormwater drainage system includes a substantial detention basin in the southeastern corner of the estate. It can therefore be assumed that the system has been designed for fully developed lots.

The Capricorn Municipal Development Guideline D5 Stormwater Drainage Tables D05.04.1 and D05.04.2 require the Industrial Development Category to have a Minor and Major Design Standard of 2 year ARI and 100 year ARI respectively. A review of the Estate Operational Works Drawings indicate that the Estate Minor System has been designed for the 10 year ARI.

Given the above it can be assumed that both the Minor and Major Systems are the Legal Point of Discharge for the development.

Drawing SCE-115-017 shows 2 catchments on Lot 3 and the adjacent sections of Road Reserve being directed to Gullies 1/4 and 1/5. It will be necessary to provide connections from these gullies to the site. In addition, it is proposed to discharge to the open channel adjacent to the northern boundary. Details of the internal drainage system including the catchments and discharges are contained in Appendix C.

6 Stormwater Quality

The drainage system servicing the site drains to a bio-retention basin located in the Southeastern corner of the estate. It is assumed that this provides the necessary level of treatment for the site. All field inlet pits within the site will be provided with Ocean Guard inserts with 200-micron filter bags to remove litter and sediment prior to discharge from the site.

7 Fire Services

There will be fire hydrants located on the northern, eastern and southern corners of the lot (two off Barton Court and one off Kiln Court). This will provide coverage of the building. This is shown in the approved Operational Works drawings in Appendix B.

Appendices

Appendix A – Locality Plan

JRT CIVIL
PARKHURST HOLDINGS PTY LTD
LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

DEVELOPMENT SITE

OPERATIONAL WORKS PLANS

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021

Harsha R. Weerasinghe
RPEQ 8372

PLAN REGISTER

Plan No.	Plan Title
SCE-115/001	Cover Sheet
SCE-115/002	Staging Plan
SCE-115/003	Road Sections
SCE-115/004	Sewer Reticulation Plan - Stage 1 - Sheet 1
SCE-115/005	Sewer Reticulation Plan - Stage 1 - Sheet 2
SCE-115/006	Sewer Reticulation Plan - Stage 2
SCE-115/007	Sewer Reticulation Plan - Stage 4
SCE-115/008	Sewer Reticulation Plan - Stage 5
SCE-115/009	Sewer Reticulation Plan - Stage 6
SCE-115/010	Sewer Long Section Plan - Sheet 1
SCE-115/011	Sewer Long Section Plan - Sheet 2
SCE-115/012	Sewer Long Section Plan - Sheet 3
SCE-115/013	Stormwater Reticulation Plan - Stage 2
SCE-115/014	Stormwater Reticulation Plan - Stage 4
SCE-115/015	Stormwater Reticulation Plan - Stage 5
SCE-115/016	Stormwater Reticulation Plan - Stage 6
SCE-115/017	Stormwater Catchment Plan
SCE-115/018	Stormwater Long Sections Plan - Sheet 1
SCE-115/019	Stormwater Long Sections Plan - Sheet 2
SCE-115/020	Stormwater Calculation Sheet - Major & Minor Rainfall Events
SCE-115/021	Stormwater Basin Long Sections & Culvert Cross Section Plan
SCE-115/022	Stormwater Chamber Details Plan
SCE-115/023	Stormwater Drain Chainages Plan
SCE-115/024	Stormwater Drain Long Section Plan - Sheet 1
SCE-115/025	Stormwater Drain Long Section Plan - Sheet 2
SCE-115/026	Stormwater Drain Cross Sections Plan - Sheet 1
SCE-115/027	Stormwater Drain Cross Sections Plan - Sheet 2
SCE-115/028	Stormwater Drain Cross Sections Plan - Sheet 3
SCE-115/029	Stormwater Chamber Details Plan
SCE-115/030	Headwall Details Plan
SCE-115/031	Water & Electrical Reticulation Plan - Stage 1
SCE-115/032	Water & Electrical Reticulation Plan - Stage 2
SCE-115/033	Water & Electrical Reticulation Plan - Stage 3
SCE-115/034	Water & Electrical Reticulation Plan - Stage 4
SCE-115/035	Water & Electrical Reticulation Plan - Stage 6
SCE-115/036	Roadworks General Details
SCE-115/037	Control Line Setout Details - Stage 2
SCE-115/038	Control Line Setout Details - Stage 4
SCE-115/039	Control Line Setout Details - Stage 5
SCE-115/040	Control Line Setout Details - Stage 6
SCE-115/041	Roadworks Plan - Stage 2
SCE-115/042	Roadworks Plan - Stage 4
SCE-115/043	Roadworks Plan - Stage 5
SCE-115/044	Roadworks Plan - Stage 6
SCE-115/045	Intersection & Vehicle Turn Paths Plan
SCE-115/046	Cul-De-Sac & Intersection Setout Details
SCE-115/047	Road A Long Section Plan - Sheet 1
SCE-115/048	Road A Long Section Plan - Sheet 2
SCE-115/049	Road B Long Section Plan - Sheet 1
SCE-115/050	Road A Cross Sections Plan - Sheet 1
SCE-115/051	Road A Cross Sections Plan - Sheet 2
SCE-115/052	Road A Cross Sections Plan - Sheet 3
SCE-115/053	Road A Cross Sections Plan - Sheet 4
SCE-115/054	Road B Cross Sections Plan
SCE-115/055	Erosion & Sediment Control Notes Sheet
SCE-115/056	Erosion Control Devices Details Plan
SCE-115/057	Erosion & Sediment Control Plan - Stage 1
SCE-115/058	Erosion & Sediment Control Plan - Stage 2
SCE-115/059	Erosion & Sediment Control Plan - Stage 3
SCE-115/060	Erosion & Sediment Control Plan - Stage 4
SCE-115/061	Erosion & Sediment Control Plan - Stage 5
SCE-115/062	Erosion & Sediment Control Plan - Stage 6

SIRIS & ASSOCIATES
CONSULTING ENGINEERS

EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

PLAN NUMBER: SCE-115-001 (E)

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 1 - Lot 6

SEWERAGE NOTES

1. House connections shall be 100 dia. and terminate at the inlet end of the inspection pipe. The end shall be sealed with plug and clip and the invert level of the bend shall be as directed by the superintendent.
2. Alignment of sewer main in private property shall be 1.5m from the front and rear property boundary, 1.0m from the side property boundary and 2.0m from the rear boundary where inter-allotment drainage run parallel unless noted otherwise.
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5. Manhole lids to be constructed to follow slope of batters if possible.
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8. For manhole lid details for access chambers located within park reserve or below Q10 flood event, refer local authority standard drawings.
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10. All chambers are to have precast fibreglass bases and are to be constructed and installed as per the manufacturer's specifications.
11. All proposed sewerage access chambers located within a park or reserve, or below Q10 flood event, must be provided with bolt down lids.

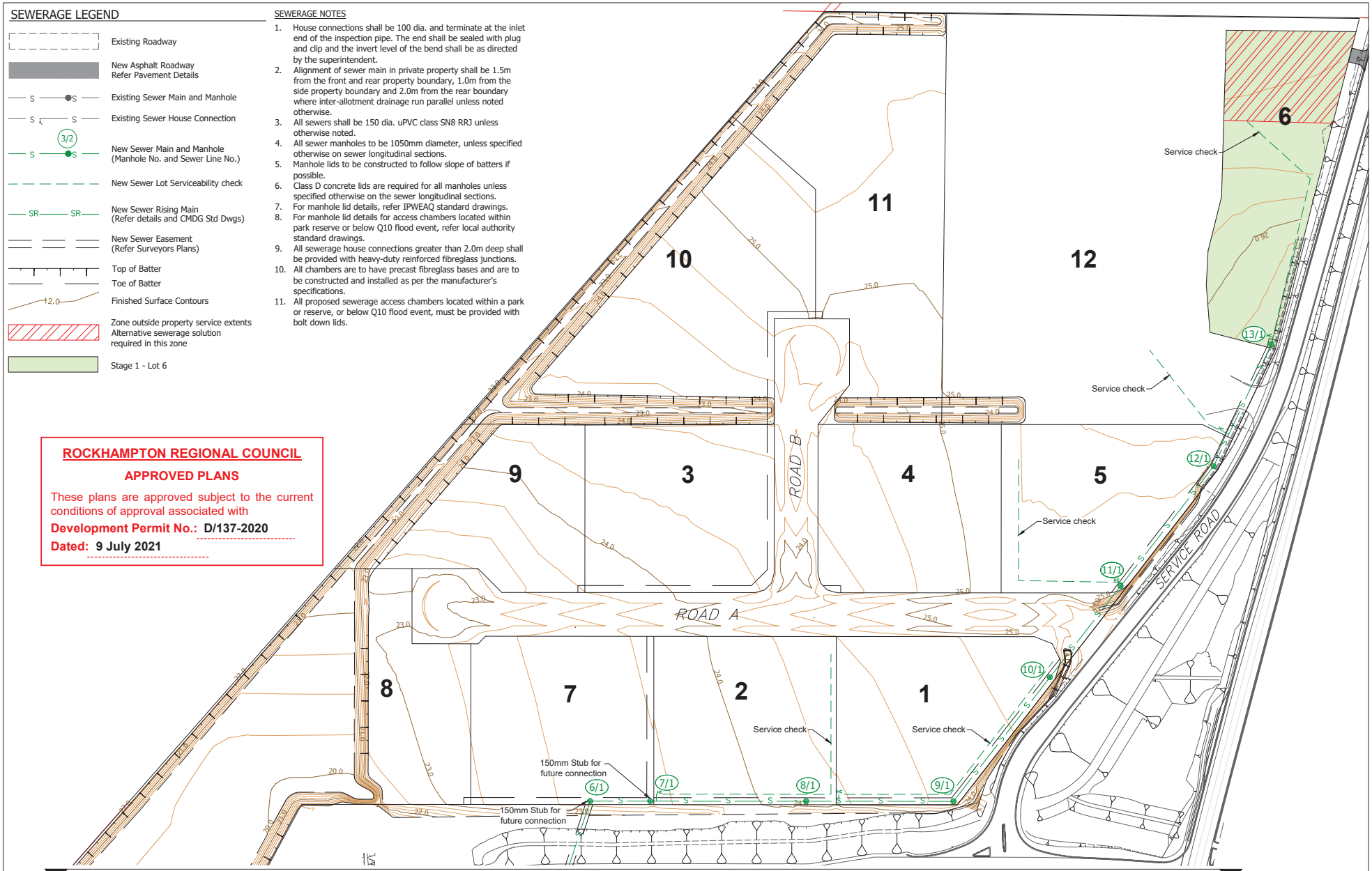
ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021



JOINS PLAN SCE-115-005

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
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E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 1 - SHEET 1

PLAN NUMBER: SCE-115-004
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

Appendix B – Subdivision Operational Works Drawings

JRT CIVIL
PARKHURST HOLDINGS PTY LTD
LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

DEVELOPMENT SITE

OPERATIONAL WORKS PLANS

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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Development Permit No.: D/137-2020

Dated: 9 July 2021

Harsha R. Weerasinghe
RPEQ 8372

PLAN REGISTER

Plan No.	Plan Title
SCE-115/001	Cover Sheet
SCE-115/002	Staging Plan
SCE-115/003	Road Sections
SCE-115/004	Sewer Reticulation Plan - Stage 1 - Sheet 1
SCE-115/005	Sewer Reticulation Plan - Stage 1 - Sheet 2
SCE-115/006	Sewer Reticulation Plan - Stage 2
SCE-115/007	Sewer Reticulation Plan - Stage 4
SCE-115/008	Sewer Reticulation Plan - Stage 5
SCE-115/009	Sewer Reticulation Plan - Stage 6
SCE-115/010	Sewer Long Section Plan - Sheet 1
SCE-115/011	Sewer Long Section Plan - Sheet 2
SCE-115/012	Sewer Long Section Plan - Sheet 3
SCE-115/013	Stormwater Reticulation Plan - Stage 2
SCE-115/014	Stormwater Reticulation Plan - Stage 4
SCE-115/015	Stormwater Reticulation Plan - Stage 5
SCE-115/016	Stormwater Reticulation Plan - Stage 6
SCE-115/017	Stormwater Catchment Plan
SCE-115/018	Stormwater Long Sections Plan - Sheet 1
SCE-115/019	Stormwater Long Sections Plan - Sheet 2
SCE-115/020	Stormwater Calculation Sheet - Major & Minor Rainfall Events
SCE-115/021	Stormwater Basin Long Sections & Culvert Cross Section Plan
SCE-115/022	Stormwater Chamber Details Plan
SCE-115/023	Stormwater Drain Chainages Plan
SCE-115/024	Stormwater Drain Long Section Plan - Sheet 1
SCE-115/025	Stormwater Drain Long Section Plan - Sheet 2
SCE-115/026	Stormwater Drain Cross Sections Plan - Sheet 1
SCE-115/027	Stormwater Drain Cross Sections Plan - Sheet 2
SCE-115/028	Stormwater Drain Cross Sections Plan - Sheet 3
SCE-115/029	Stormwater Chamber Details Plan
SCE-115/030	Headwall Details Plan
SCE-115/031	Water & Electrical Reticulation Plan - Stage 1
SCE-115/032	Water & Electrical Reticulation Plan - Stage 2
SCE-115/033	Water & Electrical Reticulation Plan - Stage 3
SCE-115/034	Water & Electrical Reticulation Plan - Stage 4
SCE-115/035	Water & Electrical Reticulation Plan - Stage 6
SCE-115/036	Roadworks General Details
SCE-115/037	Control Line Setout Details - Stage 2
SCE-115/038	Control Line Setout Details - Stage 4
SCE-115/039	Control Line Setout Details - Stage 5
SCE-115/040	Control Line Setout Details - Stage 6
SCE-115/041	Roadworks Plan - Stage 2
SCE-115/042	Roadworks Plan - Stage 4
SCE-115/043	Roadworks Plan - Stage 5
SCE-115/044	Roadworks Plan - Stage 6
SCE-115/045	Intersection & Vehicle Turn Paths Plan
SCE-115/046	Cul-De-Sac & Intersection Setout Details
SCE-115/047	Road A Long Section Plan - Sheet 1
SCE-115/048	Road A Long Section Plan - Sheet 2
SCE-115/049	Road B Long Section Plan - Sheet 1
SCE-115/050	Road A Cross Sections Plan - Sheet 1
SCE-115/051	Road A Cross Sections Plan - Sheet 2
SCE-115/052	Road A Cross Sections Plan - Sheet 3
SCE-115/053	Road A Cross Sections Plan - Sheet 4
SCE-115/054	Road B Cross Sections Plan
SCE-115/055	Erosion & Sediment Control Notes Sheet
SCE-115/056	Erosion Control Devices Details Plan
SCE-115/057	Erosion & Sediment Control Plan - Stage 1
SCE-115/058	Erosion & Sediment Control Plan - Stage 2
SCE-115/059	Erosion & Sediment Control Plan - Stage 3
SCE-115/060	Erosion & Sediment Control Plan - Stage 4
SCE-115/061	Erosion & Sediment Control Plan - Stage 5
SCE-115/062	Erosion & Sediment Control Plan - Stage 6

SIRIS & ASSOCIATES
CONSULTING ENGINEERS

EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

PLAN NUMBER: SCE-115-001 (E)

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 1 - Lot 6

SEWERAGE NOTES

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ROCKHAMPTON REGIONAL COUNCIL

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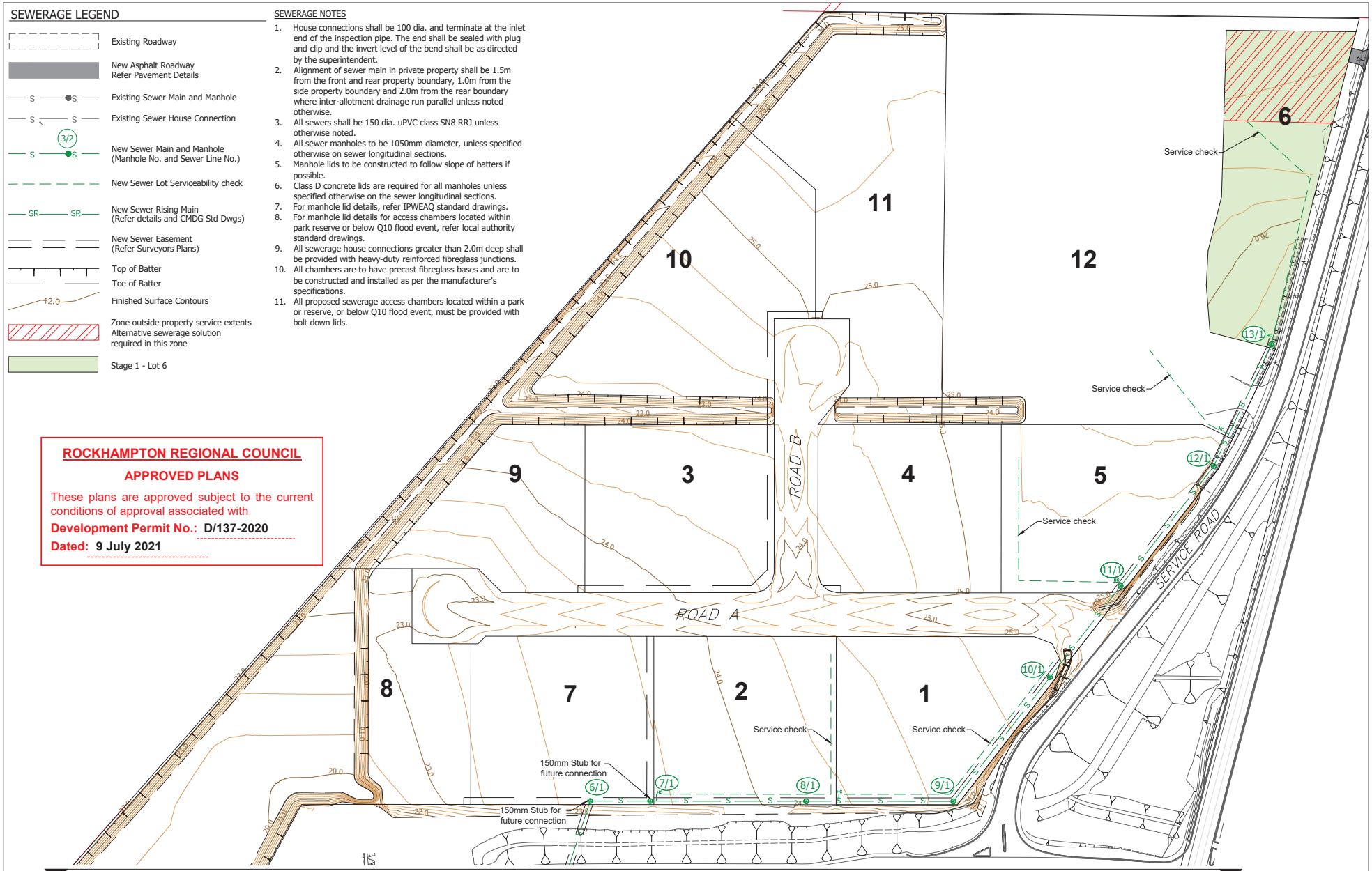

JOINS PLAN SCE-115-005

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
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CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

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PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 1 - SHEET 1

PLAN NUMBER: SCE-115-004
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone

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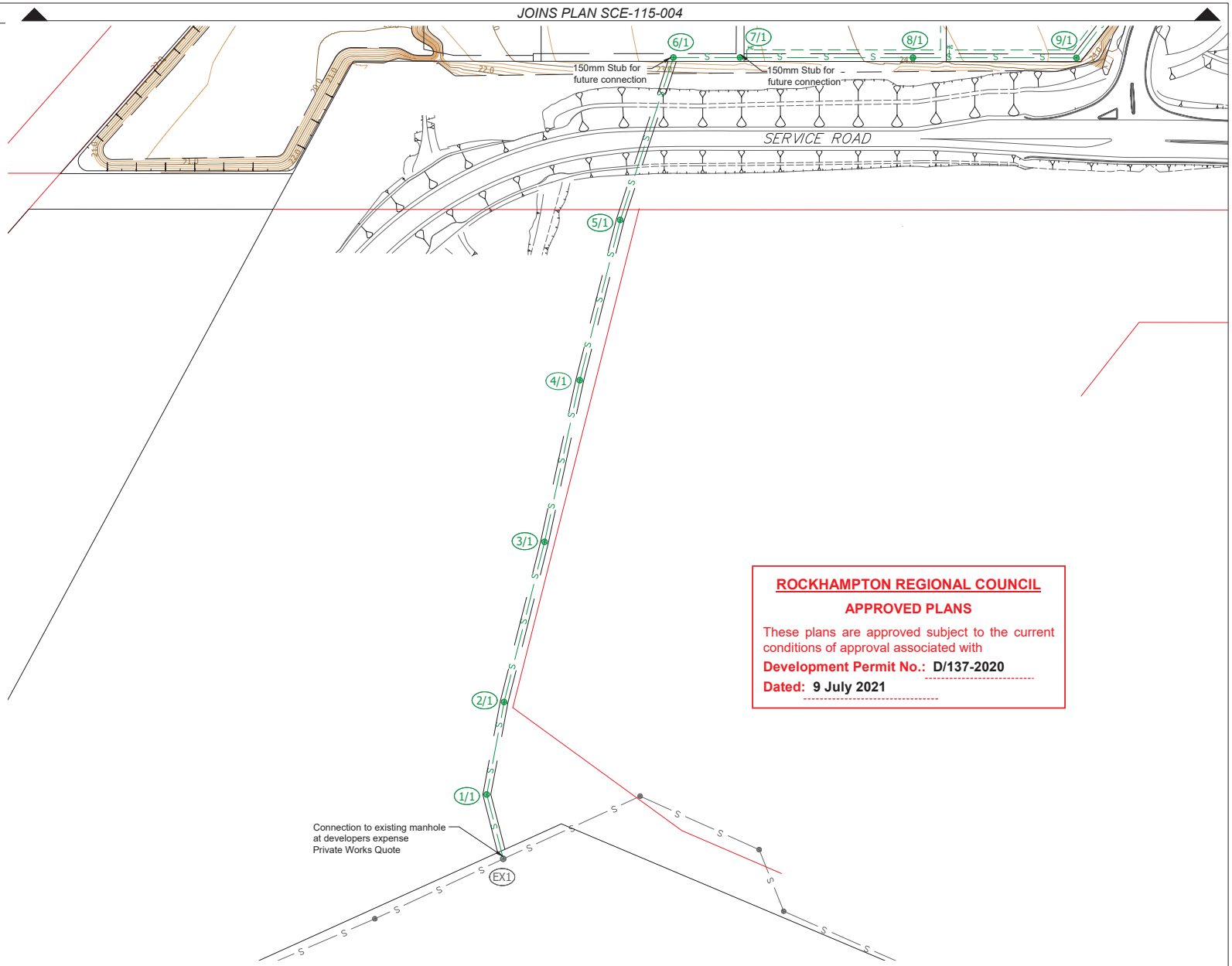

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DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD
DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

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ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 1 - SHEET 2

PLAN NUMBER: SCE-115-005
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 3 - Lot 4

SEWERAGE NOTES

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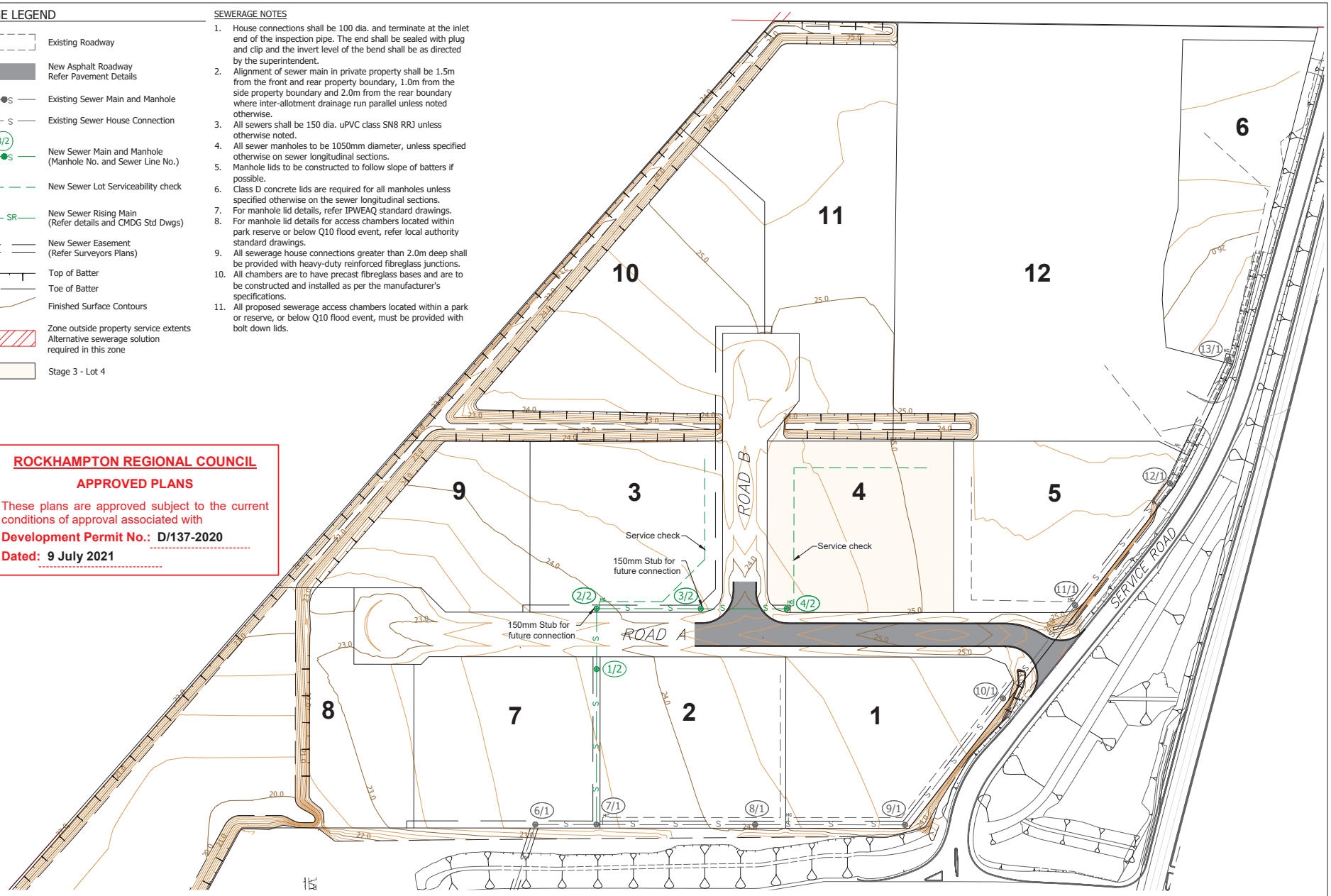

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DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD
DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

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EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
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LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 3

PLAN NUMBER: SCE-115-006
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 4 - Lots 2 & 3

SEWERAGE NOTES

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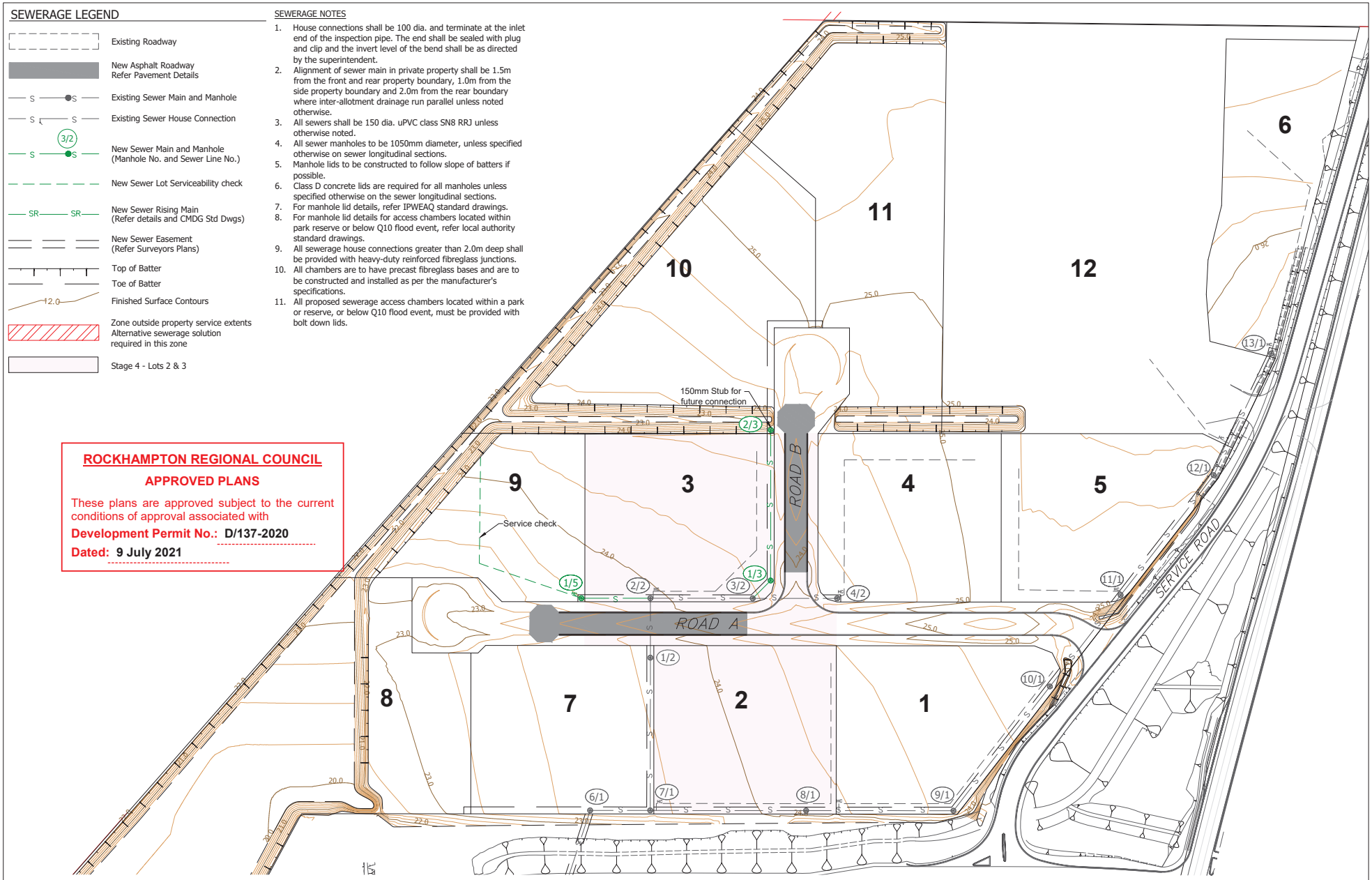

ROCKHAMPTON REGIONAL COUNCIL

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D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW:
DRAFTING REVIEW:
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 4

PLAN NUMBER: SCE-115-007
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 5 - Lots 10, 11 & 12

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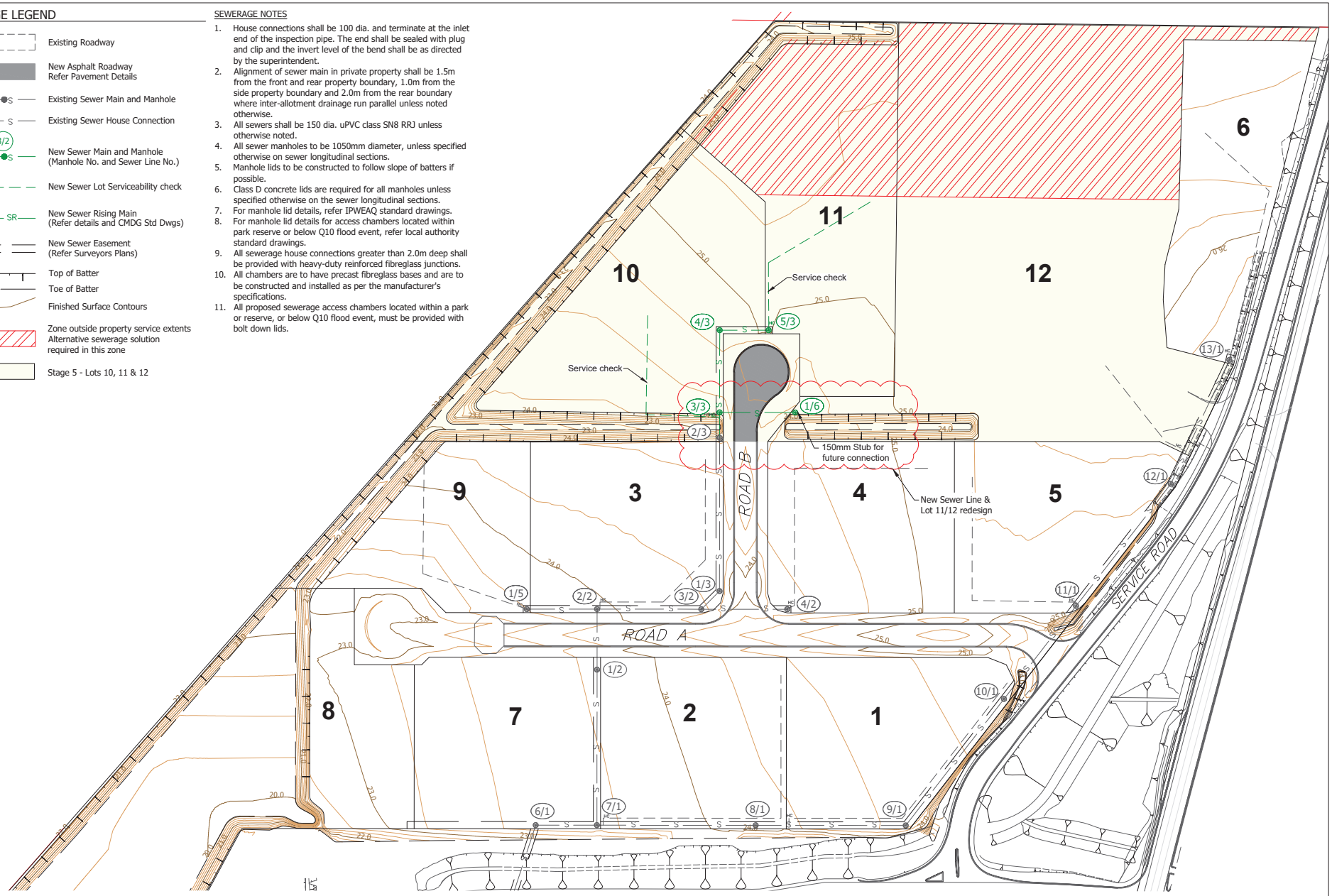

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D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN
F	DWC	JDD	08/21	NEW SEWER LINE & LOT DESIGNS

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD
DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

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ABN:34 481 028 699

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 5

PLAN NUMBER: SCE-115-008
REVISION: F

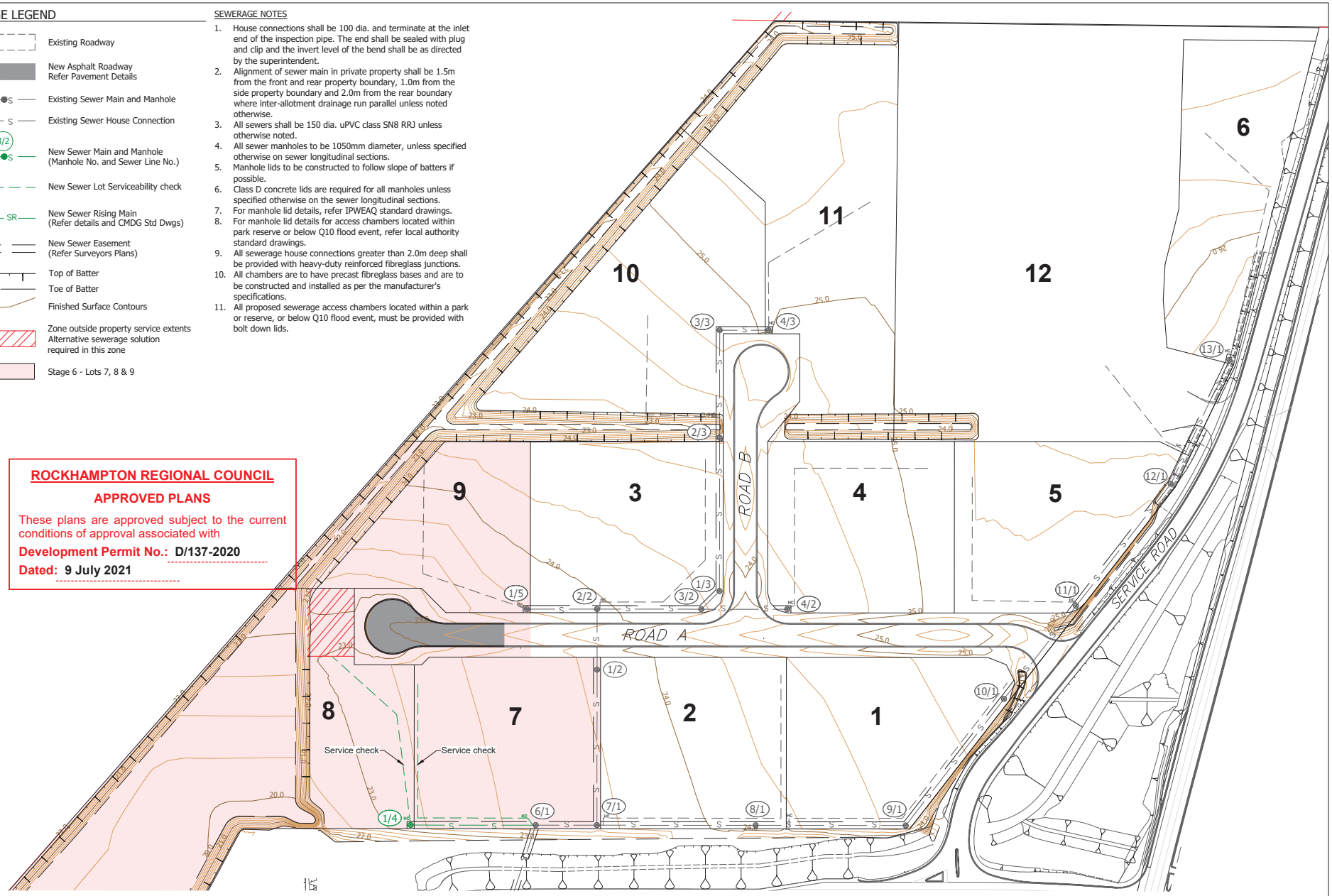
0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 6 - Lots 7, 8 & 9

SEWERAGE NOTES

1. House connections shall be 100 dia. and terminate at the inlet end of the inspection pipe. The end shall be sealed with plug and clip and the invert level of the bend shall be as directed by the superintendent.
2. Alignment of sewer main in private property shall be 1.5m from the front and rear property boundary, 1.0m from the side property boundary and 2.0m from the rear boundary where inter-allotment drainage run parallel unless noted otherwise.
3. All sewers shall be 150 dia. uPVC class SN8 RRJ unless otherwise noted.
4. All sewer manholes to be 1050mm diameter, unless specified otherwise on sewer longitudinal sections.
5. Manhole lids to be constructed to follow slope of batters if possible.
6. Class D concrete lids are required for all manholes unless specified otherwise on the sewer longitudinal sections.
7. For manhole lid details, refer IPWEAQ standard drawings.
8. For manhole lid details for access chambers located within park reserve or below Q10 flood event, refer local authority standard drawings.
9. All sewerage house connections greater than 2.0m deep shall be provided with heavy-duty reinforced fibreglass junctions.
10. All chambers are to have precast fibreglass bases and are to be constructed and installed as per the manufacturer's specifications.
11. All proposed sewerage access chambers located within a park or reserve, or below Q10 flood event, must be provided with bolt down lids.



ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
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D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
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PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 6

PLAN NUMBER: SCE-115-009
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

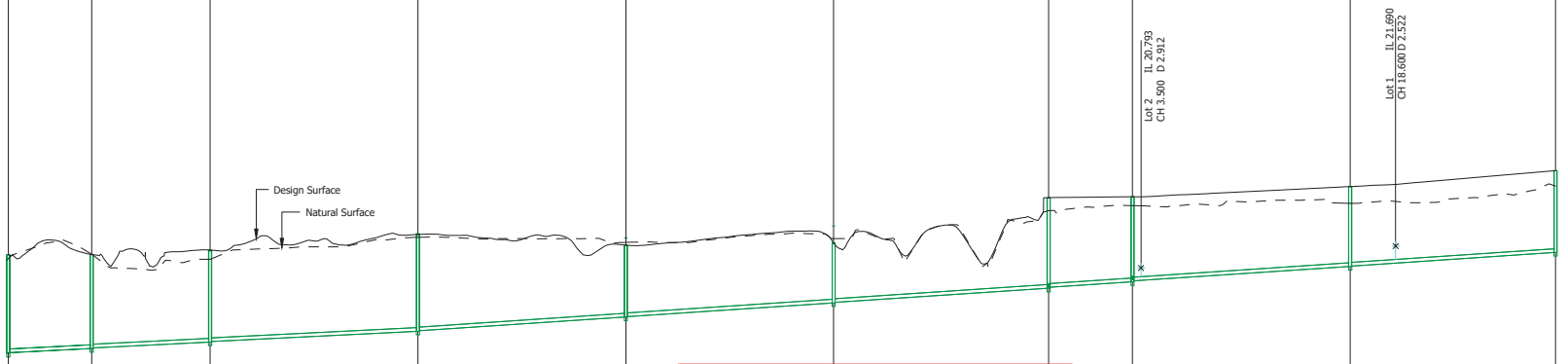
[STAGE 1]

MAINTENANCE HOLE / SHAFT NAME	MH. EX1	MH. 1/1	MH. 2/1	MH. 3/1	MH. 4/1	MH. 5/1	MH. 6/1	MH. 7/1	MH. 8/1	MH. 9/1
MH / MS COVER TYPE	CRC	CRC	CRC	CRC	CRC	CRC	CRC	CRC	CRC	CRC
MH / MS TYPE	EXISTING	1050 RCP	1050 RCP	1050 RCP	1050 RCP	1050 RCP	1050 RCP	1050 RCP	1050 RCP	1050 RCP
DS MH / MS DROP TYPE	A	A	A	A	A	A	A	A	A	A
LINE DEFLECTION & BRANCHES		25°	4°	-2°	2°	4°	72° SEWER#2 -108°	SEWER#2 -90°		-52°
PROPERTY CONNECTION TYPE								B	B	

MANHOLE SEWER INLET DROPS TYPE
"A" & "B" AS PER COUNCIL STD DWG

HOUSE CONNECTIONS TO SEWERS & MANHOLES
TYPE "A" & "B" AS PER COUNCIL STD DWG
TYPE BSG JUMP UP WITH SUGDEN CONNECTION
HC GREATER THAN 2.0m REQUIRE GRP HEAVY DUTY EXTENDED DROP JUNCTION AND PIPE, RISING TO SURFACE

NOTE: ALL STUBS FOR FUTURE CONNECTIONS OR HOUSE CONNECTIONS TO BE 150mm



ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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Dated: 9 July 2021

DATUM RL	6.000									
PROPERTY DESCRIPTION										
PIPE SIZE (mm), CLASS	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	150 uPVC SN8	
PIPE GRADE (%)	Grade 0.50%	Grade 0.50%	Grade 0.50%	Grade 0.67%	Grade 0.67%	Grade 0.67%	Grade 0.67%	Grade 0.67%	Grade 0.67%	
LENGTH	33.107	30.512	88.996	88.950	88.950	88.434	33.244	88.950	82.508	
EMBEDMENT TYPE										
FINISHED (& EXISTING) SURFACE LEVEL	21.338 (21.178)	21.350 (21.360)	21.530 (21.156)	22.173 (22.053)	21.731 (21.845)	21.819 (22.000)	23.674 (23.142)	23.712 (23.347)	24.129 (23.444)	24.778 (24.143)
DEPTH OF INVERT BELOW FSL	4.030 3.998	3.844 3.814	3.758 3.738	3.961 3.941	2.939 2.919	2.447 2.427	3.703 3.663	3.479 3.439	3.269 3.249	3.346
INVERT LEVEL	17.308 17.340	17.505 17.535	17.772 17.792	18.212 18.232	18.792 18.812	19.372 19.392	19.971 20.011	20.233 20.273	20.859 20.879	21.432
CHAINAGE	0.000	33.094	34.144 47.366	82.560 83.951	167.561 84.013	252.625 83.951	337.626 86.912	425.588 33.244	459.882 87.950	548.882 82.985	632.916

LINE SEWER01

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E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD
DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
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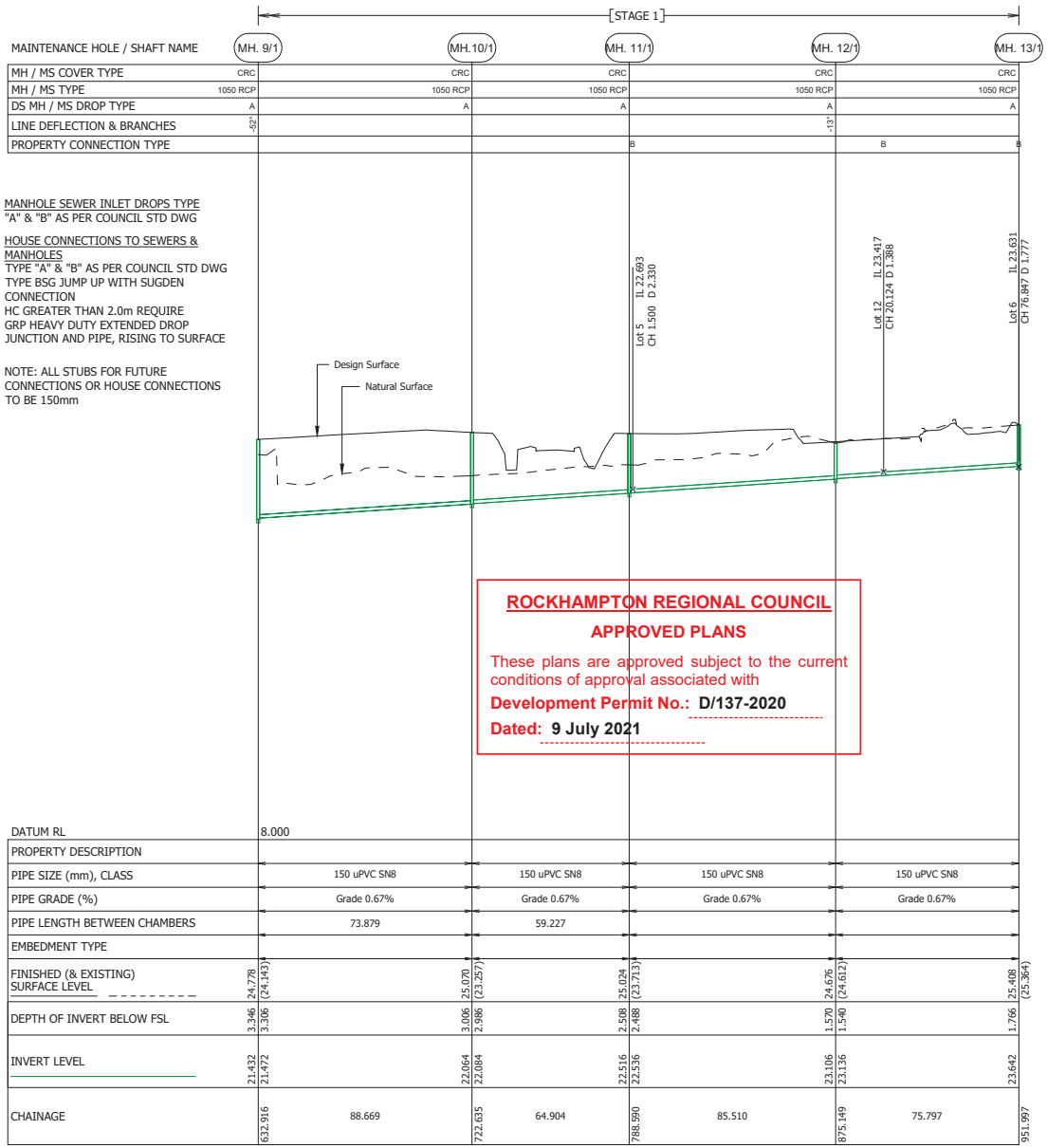
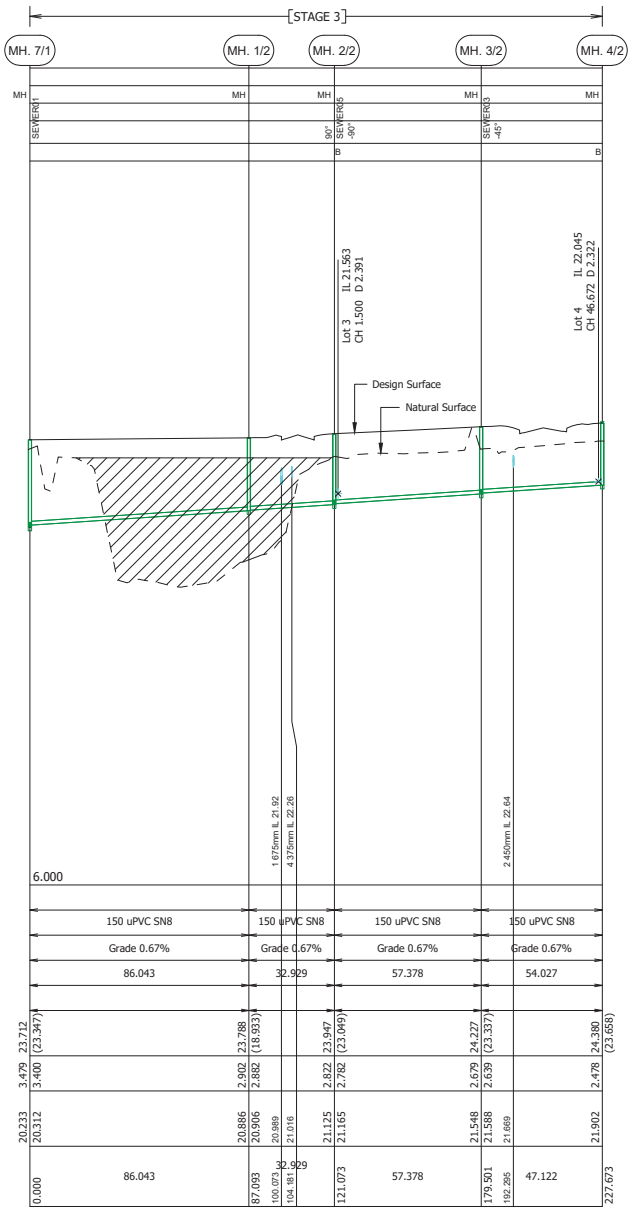
PHONE: 07 4930 2877 (office), 0404 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
SEWER LONG SECTIONS PLAN
SHEET 1

PLAN NUMBER: SCE-115-010
REVISION: E

1 : 2000 HORT.
0 25 50
1 : 200 VERT.
0 2.5 5
DO NOT SCALE - ASK IF IN DOUBT





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DATUM: AHD
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DESIGN REVIEW
DRAFTING REVIEW
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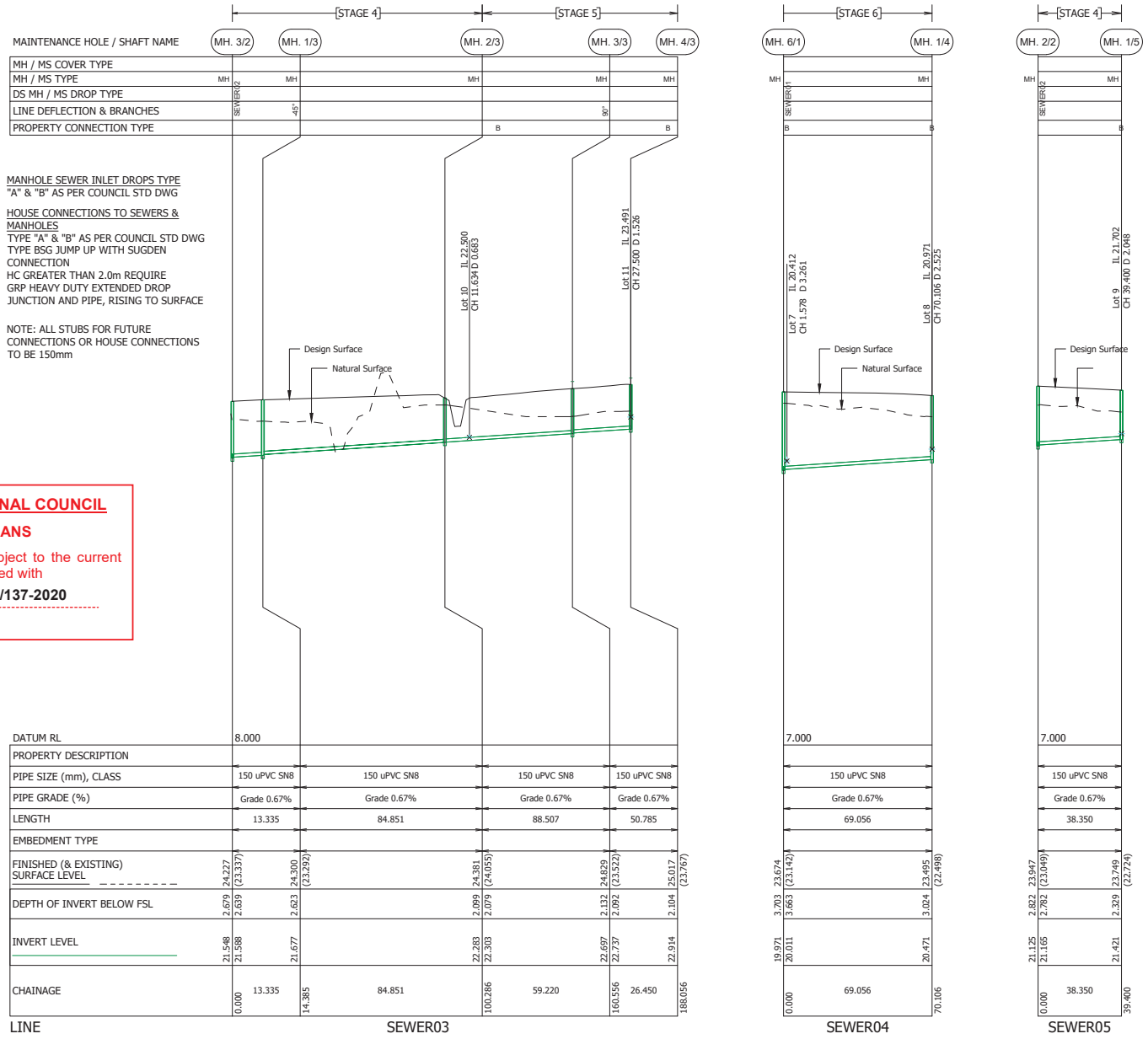
LILY PLACE ESTATE
SEWER LONG SECTIONS PLAN SHEET 2

PLAN NUMBER: SCE-115-011
REVISION: E

1 : 2000 HORT.
0 25 50
1 : 200 VERT.
0 2.5 5
DO NOT SCALE - ASK IF IN DOUBT



ROCKHAMPTON REGIONAL COUNCIL

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E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
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DRAFTING REVIEW

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ABN:34 481 028 699

LILY PLACE ESTATE
SEWER LONG SECTIONS PLAN
SHEET 3

PLAN NUMBER: SCE-115-012
REVISION: E

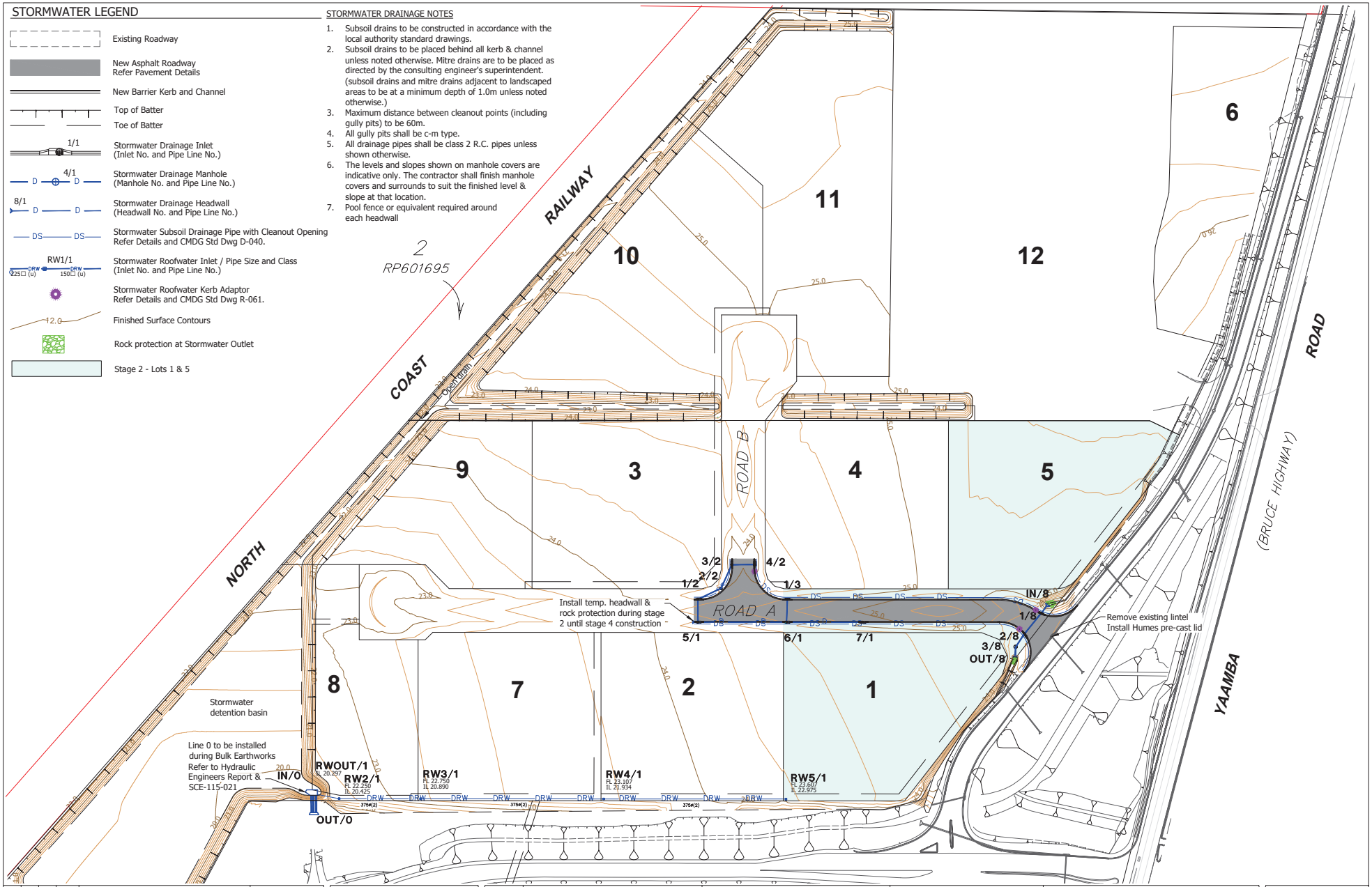
1 : 2000 HORT.
0 25 50
0 2.5 5
1 : 200 VERT.
DO NOT SCALE - ASK IF IN DOUBT

STORMWATER LEGEND

- Existing Roadway
- New Asphalt Roadway
  Refer Pavement Details
- New Barrier Kerb and Channel
- Top of Batter
- Toe of Batter
- 1/1 — Stormwater Drainage Inlet (Inlet No. and Pipe Line No.)
- 4/1 D — D — Stormwater Drainage Manhole (Manhole No. and Pipe Line No.)
- 8/1 D — D — Stormwater Drainage Headwall (Headwall No. and Pipe Line No.)
- DS — DS — Stormwater Subsoil Drainage Pipe with Cleanout Opening
  Refer Details and CMDG Std Dwg D-040.
- RW1/1 DRW Ø225□ (u) — DRW 150□ (u) — Stormwater Roofwater Inlet / Pipe Size and Class (Inlet No. and Pipe Line No.)
- Stormwater Roofwater Kerb Adaptor
  Refer Details and CMDG Std Dwg R-061.
- 12.0 — Finished Surface Contours
- Rock protection at Stormwater Outlet
- Stage 2 - Lots 1 & 5

STORMWATER DRAINAGE NOTES

1. Subsoil drains to be constructed in accordance with the local authority standard drawings.
2. Subsoil drains to be placed behind all kerb & channel unless noted otherwise. Mitre drains are to be placed as directed by the consulting engineer's superintendent. (subsoil drains and mitre drains adjacent to landscaped areas to be at a minimum depth of 1.0m unless noted otherwise.)
3. Maximum distance between cleanout points (including gully pits) to be 60m.
4. All gully pits shall be c-m type.
5. All drainage pipes shall be class 2 R.C. pipes unless shown otherwise.
6. The levels and slopes shown on manhole covers are indicative only. The contractor shall finish manhole covers and surrounds to suit the finished level & slope at that location.
7. Pool fence or equivalent required around each headwall



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E	DWC	JDD	06/21	REVISED DRAIN DESIGN
F	DWC	JDD	09/21	REVISED INTERALLOTMENT DRAINAGE

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW
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ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
STORMWATER RETICULATION PLAN
STAGE 2

PLAN NUMBER: SCE-115-013
REVISION: F

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

STORMWATER LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- New Barrier Kerb and Channel
- Top of Batter
- Toe of Batter
- 1/1 — Stormwater Drainage Inlet (Inlet No. and Pipe Line No.)
- 4/1 D — D — Stormwater Drainage Manhole (Manhole No. and Pipe Line No.)
- 8/1 D — D — Stormwater Drainage Headwall (Headwall No. and Pipe Line No.)
- DS — DS — Stormwater Subsoil Drainage Pipe with Cleanout Opening — Refer Details and CMDG Std Dwg D-040.
- RW1/1 DRW Ø225□ (u) — DRW 150□ (u) — Stormwater Roofwater Inlet / Pipe Size and Class (Inlet No. and Pipe Line No.)
- Stormwater Roofwater Kerb Adaptor — Refer Details and CMDG Std Dwg R-061.
- 12.0 — Finished Surface Contours
- Rock protection at Stormwater Outlet
- Stage 4 - Lots 2 & 3

STORMWATER DRAINAGE NOTES

1. Subsoil drains to be constructed in accordance with the local authority standard drawings.
2. Subsoil drains to be placed behind all kerb & channel unless noted otherwise. Mitre drains are to be placed as directed by the consulting engineer's superintendent. (subsoil drains and mitre drains adjacent to landscaped areas to be at a minimum depth of 1.0m unless noted otherwise.)
3. Maximum distance between cleanout points (including gully pits) to be 60m.
4. All gully pits shall be c-m type.
5. All drainage pipes shall be class 2 R.C. pipes unless shown otherwise.
6. The levels and slopes shown on manhole covers are indicative only. The contractor shall finish manhole covers and surrounds to suit the finished level & slope at that location.
7. Pool fence or equivalent required around each headwall

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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Dated: 9 July 2021

2 RP601695

RAILWAY

COAST

NORTH

ROAD B

ROAD A

SERVICE ROAD

ROAD (BRUCE HIGHWAY)

YAAMBA

Install temp. headwall & rock protection during stage 4 until stage 6 construction

Stormwater detention basin

IN/0 RWOUT/1 RL 20.819 RW2/1 FL 22.800 IL 20.947

OUT/0

RW3/1 FL 23.500 IL 21.412

RW4/1 FL 23.700 IL 22.456

RW5/1 FL 24.300 IL 23.500

IN/8 OUT/8

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DATUM AHD CO-ORD. GDA94

DESIGN REVIEW

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LILY PLACE ESTATE
STORMWATER RETICULATION PLAN
STAGE 4

PLAN NUMBER: SCE-115-014

REVISION: E

0 10.0 40.0m
1:2000

DO NOT SCALE - ASK IF IN DOUBT

STORMWATER LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- New Barrier Kerb and Channel
- Top of Batter
- Toe of Batter
- 1/1 — Stormwater Drainage Inlet (Inlet No. and Pipe Line No.)
- 4/1 — Stormwater Drainage Manhole (Manhole No. and Pipe Line No.)
- 8/1 — Stormwater Drainage Headwall (Headwall No. and Pipe Line No.)
- DS — Stormwater Subsoil Drainage Pipe with Cleanout Opening — Refer Details and CMDG Std Dwg D-040.
- RW1/1 — Stormwater Roofwater Inlet / Pipe Size and Class (Inlet No. and Pipe Line No.)
- Stormwater Roofwater Kerb Adaptor — Refer Details and CMDG Std Dwg R-061.
- 12.0 — Finished Surface Contours
- Rock protection at Stormwater Outlet
- Stage 5 - Lots 10, 11 & 12

STORMWATER DRAINAGE NOTES

1. Subsoil drains to be constructed in accordance with the local authority standard drawings.
2. Subsoil drains to be placed behind all kerb & channel unless noted otherwise. Mitre drains are to be placed as directed by the consulting engineer's superintendent. (subsoil drains and mitre drains adjacent to landscaped areas to be at a minimum depth of 1.0m unless noted otherwise.)
3. Maximum distance between cleanout points (including gully pits) to be 60m.
4. All gully pits shall be c-m type.
5. All drainage pipes shall be class 2 R.C. pipes unless shown otherwise.
6. The levels and slopes shown on manhole covers are indicative only. The contractor shall finish manhole covers and surrounds to suit the finished level & slope at that location.
7. Pool fence or equivalent required around each headwall

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RAILWAY
COAST
NORTH
ROAD B
ROAD A
SERVICE ROAD
(BRUCE HIGHWAY)
YAAMBA ROAD
SERVICE ROAD
Overland flow
Stormwater detention basin
2 RP601695
OUT/7
OUT/8
OUT/0
IN/0
IN/7
IN/8
RWOUT/1 IL 20.815
RW2/1 FL 22.800 IL 20.947
RW3/1 FL 23.500 IL 21.412
RW4/1 FL 23.700 IL 22.456
RW5/1 FL 24.300 IL 23.500
1 2 3 4 5 6 7 8 9 10 11 12

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
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D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM AHD
CO-ORD. GDA94

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DRAFTING REVIEW
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
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LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD
DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

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LILY PLACE ESTATE
STORMWATER RETICULATION PLAN
STAGE 5

PLAN NUMBER: SCE-115-015
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

STORMWATER LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- New Barrier Kerb and Channel
- Top of Batter
- Toe of Batter
- 1/1 — Stormwater Drainage Inlet (Inlet No. and Pipe Line No.)
- 4/1 — Stormwater Drainage Manhole (Manhole No. and Pipe Line No.)
- 8/1 — Stormwater Drainage Headwall (Headwall No. and Pipe Line No.)
- DS — Stormwater Subsoil Drainage Pipe with Cleanout Opening — Refer Details and CMDG Std Dwg D-040.
- RW1/1 — Stormwater Roofwater Inlet / Pipe Size and Class (Inlet No. and Pipe Line No.)
- Stormwater Roofwater Kerb Adaptor — Refer Details and CMDG Std Dwg R-061.
- 12.0 — Finished Surface Contours
- Rock protection at Stormwater Outlet
- Stage 6 - Lots 7, 8 & 9

STORMWATER DRAINAGE NOTES

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2. Subsoil drains to be placed behind all kerb & channel unless noted otherwise. Mitre drains are to be placed as directed by the consulting engineer's superintendent. (subsoil drains and mitre drains adjacent to landscaped areas to be at a minimum depth of 1.0m unless noted otherwise.)
3. Maximum distance between cleanout points (including gully pits) to be 60m.
4. All gully pits shall be c-m type.
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6. The levels and slopes shown on manhole covers are indicative only. The contractor shall finish manhole covers and surrounds to suit the finished level & slope at that location.
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Note:
Bio-basin Paramaters
- 2100m² Surface Media
- 1100m² Filter Area
- 0.6m Filter Depth

Final location to be determined on site

Approximate location of bio-retention basin. Refer approved SWMP 12-June-2020 Rev B

Stormwater detention basin

RAILWAY

COAST

NORTH

ROAD

(BRUCE HIGHWAY)

YAAMBA

ROAD A

ROAD B

SERVICE ROAD

SERVICE ROAD

2 RP601695

Open Drain

OUT/0 OUT/1 OUT/7 OUT/8

IN/0 IN/7 IN/8

RWOUT/1 RW2/1 RW3/1 RW4/1 RW5/1

1 2 3 4 5 6 7 8 9 10 11 12

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
B	DWC	JDD	02/21	RRC RFI RESPONSE
C	DWC	JDD	05/21	RRC RFI RESPONSE
D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM AHD CO-ORD. GDA94

DESIGN REVIEW

DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
STORMWATER RETICULATION PLAN
STAGE 6

PLAN NUMBER: SCE-115-016

REVISION: E

0 10.0 40.0m
1:2000

DO NOT SCALE - ASK IF IN DOUBT

STORMWATER CATCHMENT LEGEND

- Proposed Stormwater Catchment Boundary
- 12.0 — Finished Surface Contours
- 1/1 — Stormwater Drainage Inlet (Inlet No. and Pipe Line No.)
- 4/1 D D — Stormwater Drainage Manhole (Manhole No. and Pipe Line No.)
- 8/1 D D — Stormwater Drainage Headwall (Headwall No. and Pipe Line No.)

CATCHMENT DETAILS TABLE

OUTLET	AREA (HA)	MINOR	MAJOR
OUT/1	4.055	10 Years	100 Years
OUT/7	4.551	10 Years	100 Years
OUT/8	1.560	10 Years	100 Years

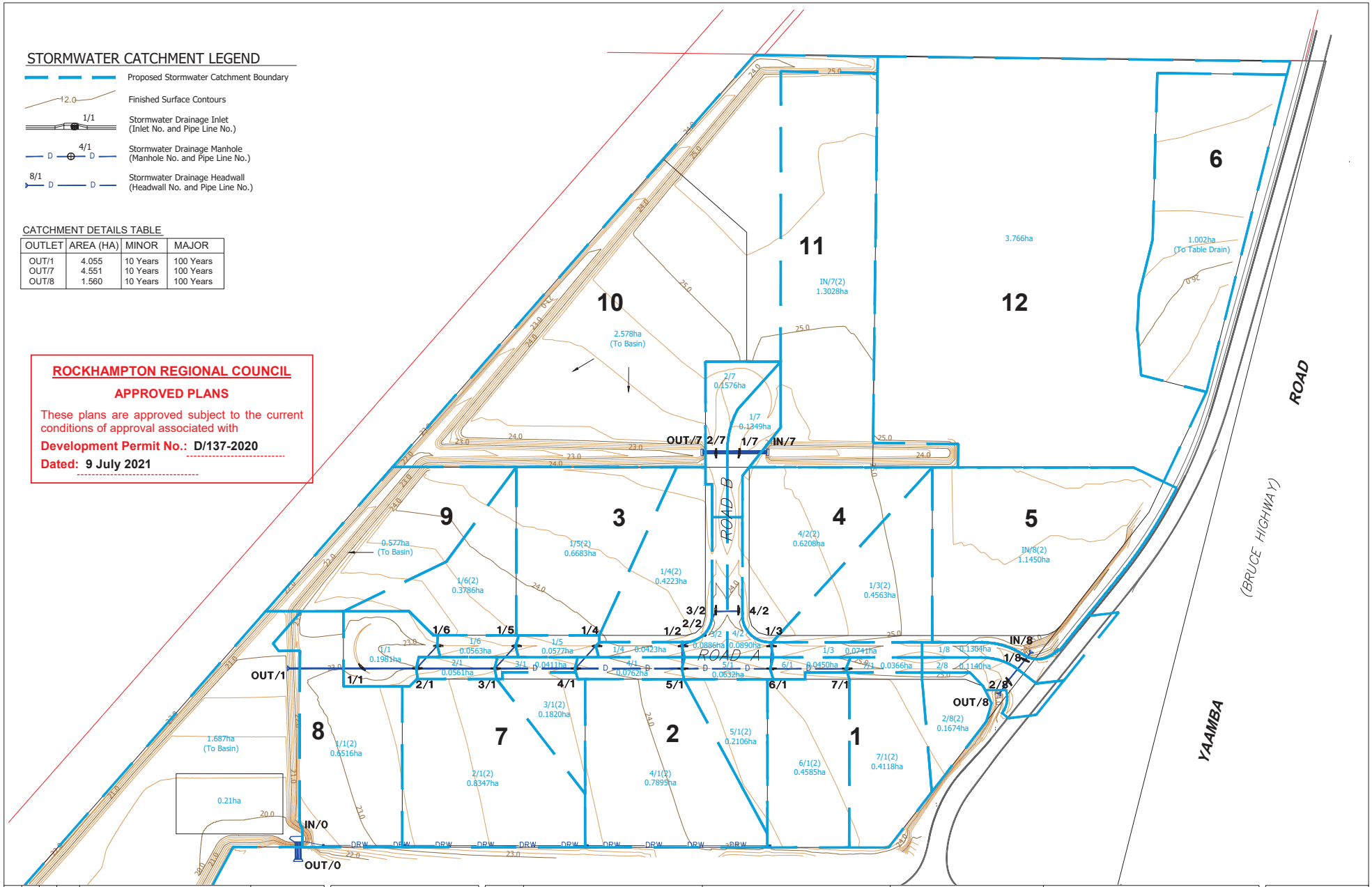
ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021



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DATUM: AHD
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LILY PLACE ESTATE
STORMWATER CATCHMENT PLAN

PLAN NUMBER: SCE-115-017
REVISION: E

0 10.0 40.0m
1:2000
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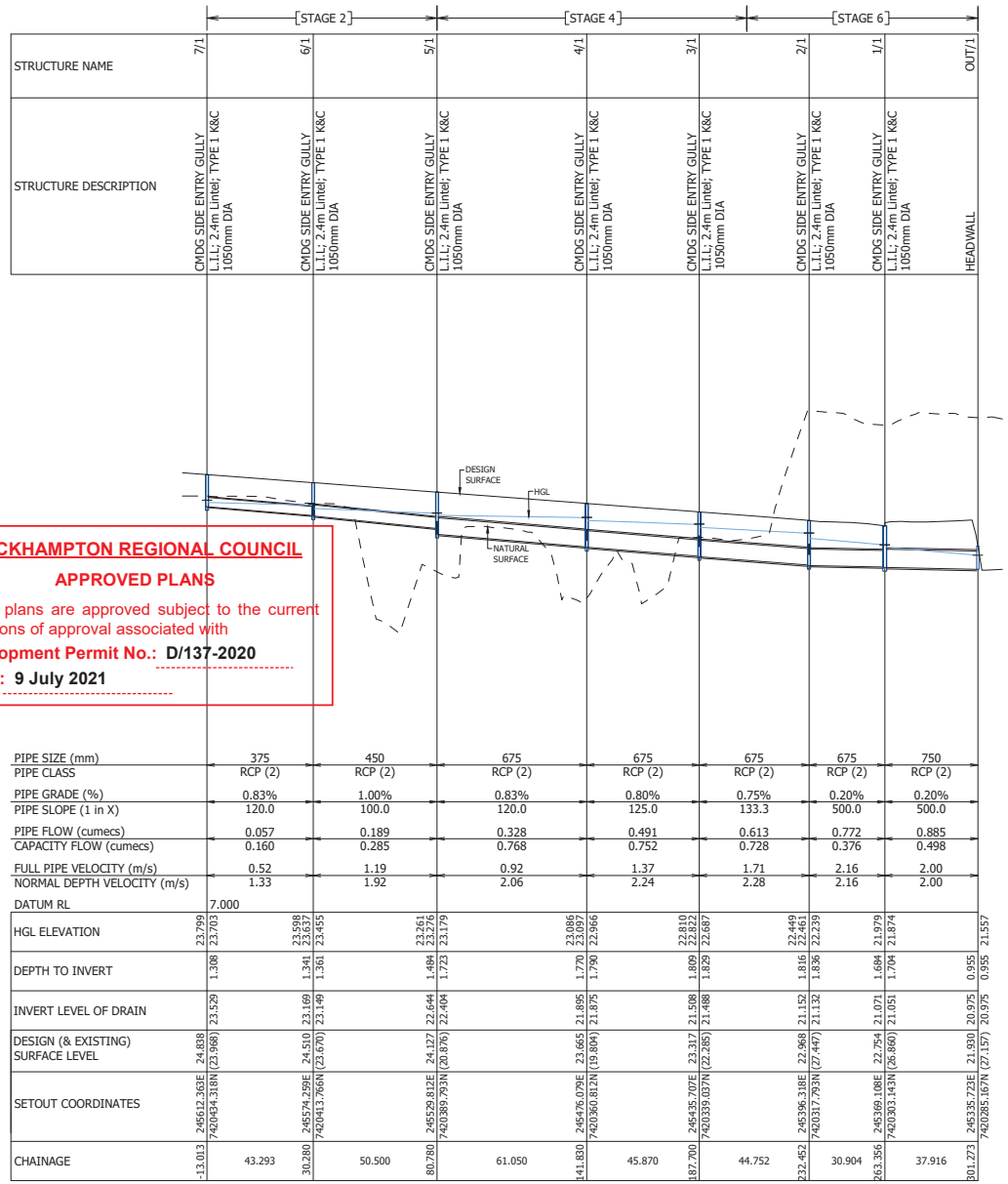

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DRAFTING REVIEW

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ABN:34 481 028 699

LILY PLACE ESTATE
STORMWATER LONG SECTION PLAN
SHEET 1

PLAN NUMBER: SCE-115-018
REVISION: E

1 : 2000 HORT.
0 25 50
1 : 200 VERT.
0 2.5 5
DO NOT SCALE - ASK IF IN DOUBT

ROCKHAMPTON REGIONAL COUNCIL

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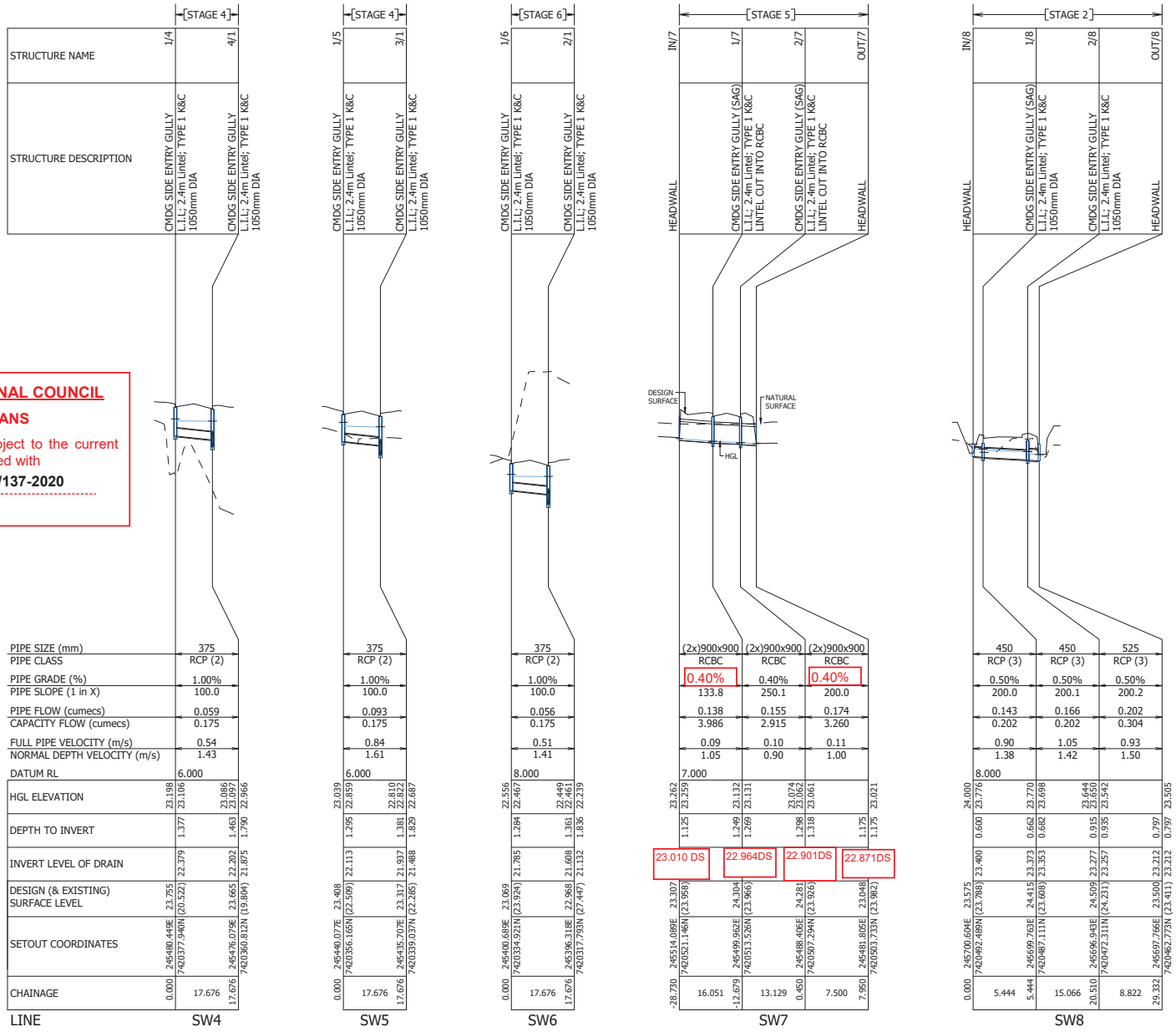

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DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
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CLIENT DETAILS:
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DEVELOPMENT DETAILS:
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LILY PLACE ESTATE
STORMWATER LONG SECTION PLAN SHEET 2

PLAN NUMBER: SCE-115-019
REVISION: E

1 : 2000 HORT.
0 25 50
1 : 200 VERT.
0 2.5 5
DO NOT SCALE - ASK IF IN DOUBT

WATER & ELECTRICAL RETICULATION LEGEND

- Existing Roadway
- New Bitumen Roadway
  Refer Pavement Details
- Existing Water Reticulation Main
- Existing Water Fire Hydrant
- Existing Water Sluice Valve
- Existing Electrical Main - Underground
- Existing Electrical Pillar Box
- New 150dia. mPVC Class 16 Water Reticulation Main
  Refer CMDG Std Dwgs W-040 and W-041
- New Water Fire Hydrant
  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Water Sluice Valve
  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Electrical Main - Underground
  (Concept Layout Only)
- New Electrical Pillar Box - Property Connection
  (Concept Layout Only)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Stage 1 - Lot 6

WATER RETICULATION NOTES

1. All pipes are to be mPVC class 16 RRJ to AS 2977 unless noted otherwise and have a minimum 600mm cover.
2. Hydrant and valve installation to be in accordance with local authority standard drawings.
3. Reticulation mains to be laid 2.5m from the property boundary unless otherwise noted on the drawings.
4. For pipes to be laid on curves, the perferred maximum pipe joint deflection per joint shall be 1.5 degrees. (the absolute maximum deflection per joint shall be 3 degrees.)
5. Water conduit crossings shall be aligned from the common boundary of allotments served.
6. uPVC mains to be flushed and tested in accordance with the specification.
7. All valves and reducers at water main junctions shall be flange - flange jointed unless noted otherwise.
8. All bends, tees and deadends are to have thrust blocks as per local authority standard drawings and must be DICL socketed minimum Class 14.
9. For thrust block details, refer local authority standard drawings.
10. Conduits under roadways shall be 100mm dia. uPVC SN8 conduit sealed each end with heavy duty plastic tape. Refer local authority standard drawings.
11. Service marker stake and brass indicator discs to be installed as per local authority standard drawings.
12. All fittings and elongated gibaults are to comprise stainless steel bolts.
13. Hydrant locations to be marked as per local authority standard drawings.
14. Water mains and service conduits to be laid in accordance with local authority standard drawings.
15. Marker tape (200mm with tracer wire for electro detection) shall be provided over all watermains and services.
16. End caps and fire hydrants to be provided for water mains at end of stages if stages completed separately, as per local authority guidelines.

ELECTRICAL RETICULATION NOTES

1. This electrical conduit layout is a CONCEPTUAL underground electrical design to assist the local authority with the Operational Works Application. Refer certified electrical plans and Ergon Energy URD CONSTRUCTION CIVIL DRAWINGS for trenching and lighting arrangements. The formal electrical design must be completed by Ergon Energy or an Electrical Engineer certified by Ergon Energy.
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3. The contractor shall identify the extent and location of all existing services within or surrounding the works area. All services shall be protected against any damage during construction of the works. The contractor shall be responsible for all costs incurred by any damage to the existing services.
4. All Electricity trenching to be on 0.450m alignment where running parallel with property boundaries, in accordance with Ergon Energy and the local authority policies and requirements.
5. Kerb markers to be installed where conduits cross existing new roadways in accordance with CMDG Std Dwg R-070.

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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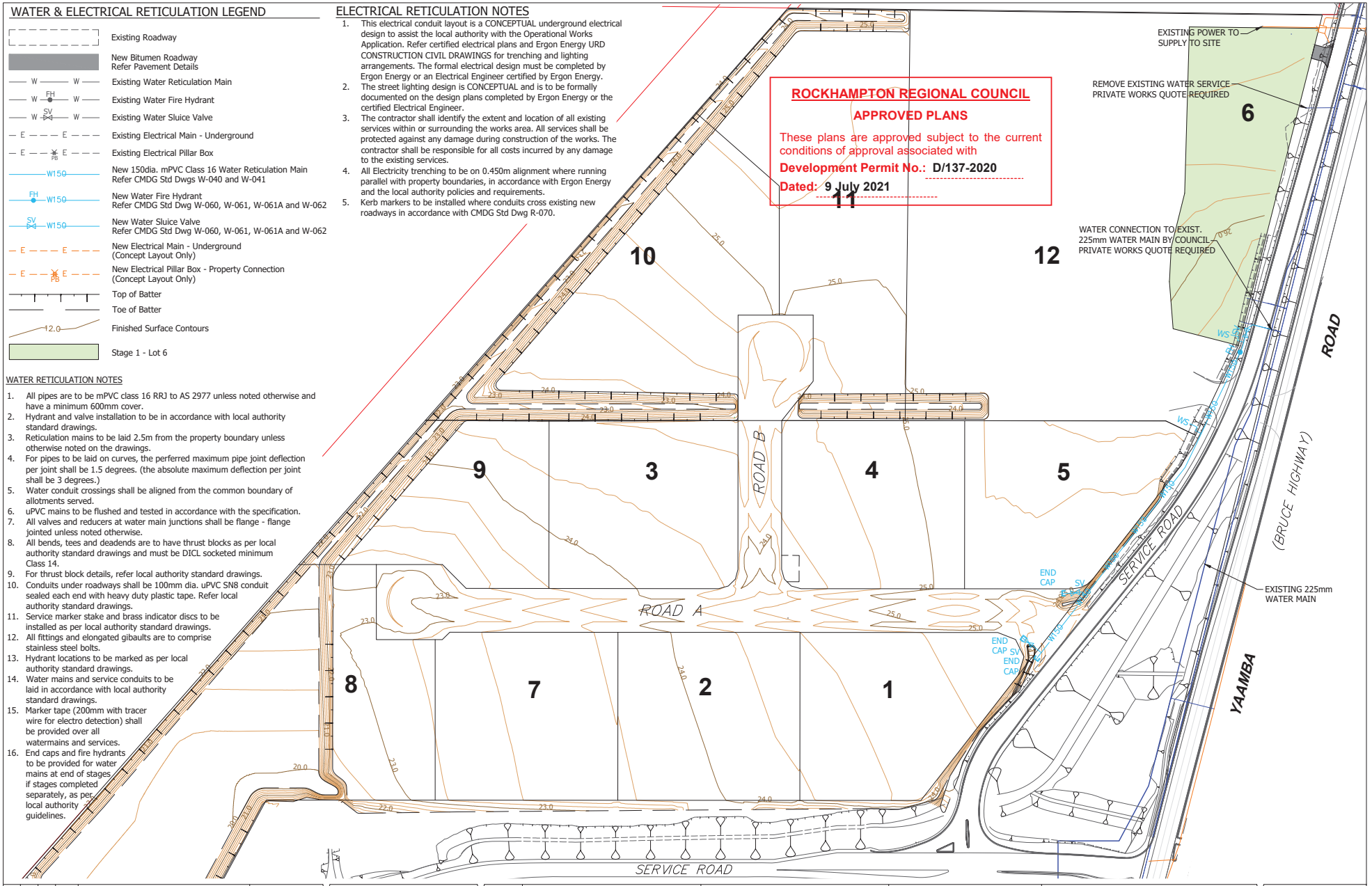

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DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

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ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703
ABN:34 481 028 699

LILY PLACE ESTATE
WATER & ELECTRICAL RETICULATION PLAN - STAGE 1

PLAN NUMBER: SCE-115-031
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

WATER & ELECTRICAL RETICULATION LEGEND

- Existing Roadway
- New Bitumen Roadway
  Refer Pavement Details
- Existing Water Reticulation Main
- Existing Water Fire Hydrant
- Existing Water Sluice Valve
- Existing Electrical Main - Underground
- Existing Electrical Pillar Box
- New 150dia. mPVC Class 16 Water Reticulation Main
  Refer CMDG Std Dwgs W-040 and W-041
- New Water Fire Hydrant
  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Water Sluice Valve
  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Electrical Main - Underground
  (Concept Layout Only)
- New Electrical Pillar Box - Property Connection
  (Concept Layout Only)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Stage 2 - Lots 1 & 5

WATER RETICULATION NOTES

1. All pipes are to be mPVC class 16 RRJ to AS 2977 unless noted otherwise and have a minimum 600mm cover.
2. Hydrant and valve installation to be in accordance with local authority standard drawings.
3. Reticulation mains to be laid 2.5m from the property boundary unless otherwise noted on the drawings.
4. For pipes to be laid on curves, the perferred maximum pipe joint deflection per joint shall be 1.5 degrees. (the absolute maximum deflection per joint shall be 3 degrees.)
5. Water conduit crossings shall be aligned from the common boundary of allotments served.
6. uPVC mains to be flushed and tested in accordance with the specification.
7. All valves and reducers at water main junctions shall be flange - flange jointed unless noted otherwise.
8. All bends, tees and deadends are to have thrust blocks as per local authority standard drawings and must be DICL socketed minimum Class 14.
9. For thrust block details, refer local authority standard drawings.
10. Conduits under roadways shall be 100mm dia. uPVC SN8 conduit sealed each end with heavy duty plastic tape. Refer local authority standard drawings.
11. Service marker stake and brass indicator discs to be installed as per local authority standard drawings.
12. All fittings and elongated gibaults are to comprise stainless steel bolts.
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14. Water mains and service conduits to be laid in accordance with local authority standard drawings.
15. Marker tape (200mm with tracer wire for electro detection) shall be provided over all watermains and services.
16. End caps and fire hydrants to be provided for water mains at end of stages if stages completed separately, as per local authority guidelines.

ELECTRICAL RETICULATION NOTES

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5. Kerb markers to be installed where conduits cross existing new roadways in accordance with CMDG Std Dwg R-070.

ROCKHAMPTON REGIONAL COUNCIL

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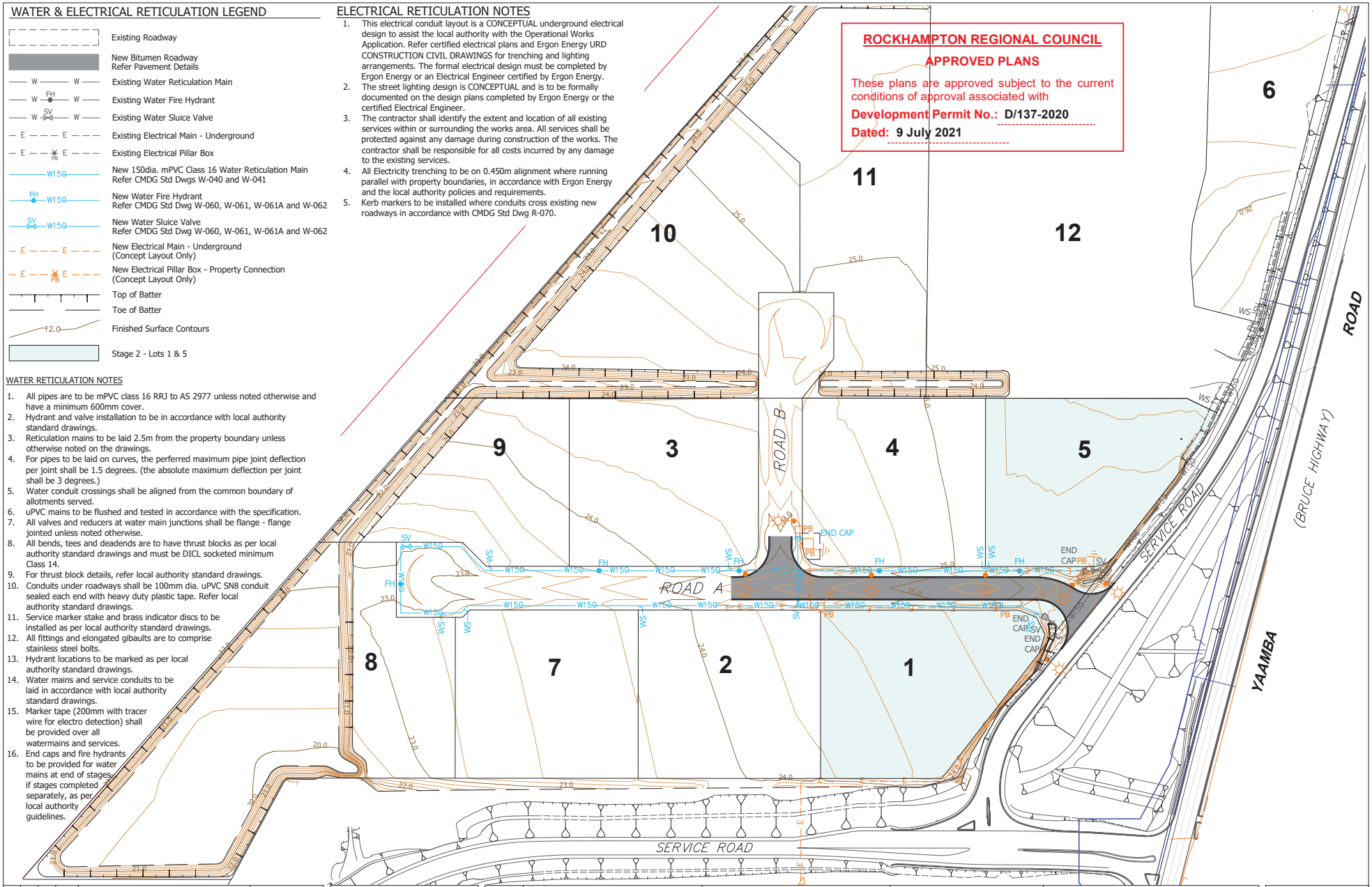

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LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

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CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS:
LILY PLACE ESTATE
777 YAAMBA ROAD
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LILY PLACE ESTATE
WATER & ELECTRICAL RETICULATION PLAN - STAGE 2

PLAN NUMBER: SCE-115-032
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

WATER & ELECTRICAL RETICULATION LEGEND

- Existing Roadway
- New Bitumen Roadway
  Refer Pavement Details
- Existing Water Reticulation Main
- Existing Water Fire Hydrant
- Existing Water Sluice Valve
- Existing Electrical Main - Underground
- Existing Electrical Pillar Box
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- New Water Sluice Valve
  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Electrical Main - Underground
  (Concept Layout Only)
- New Electrical Pillar Box - Property Connection
  (Concept Layout Only)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Stage 3 - Lot 4

WATER RETICULATION NOTES

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3. Reticulation mains to be laid 2.5m from the property boundary unless otherwise noted on the drawings.
4. For pipes to be laid on curves, the perferred maximum pipe joint deflection per joint shall be 1.5 degrees. (the absolute maximum deflection per joint shall be 3 degrees.)
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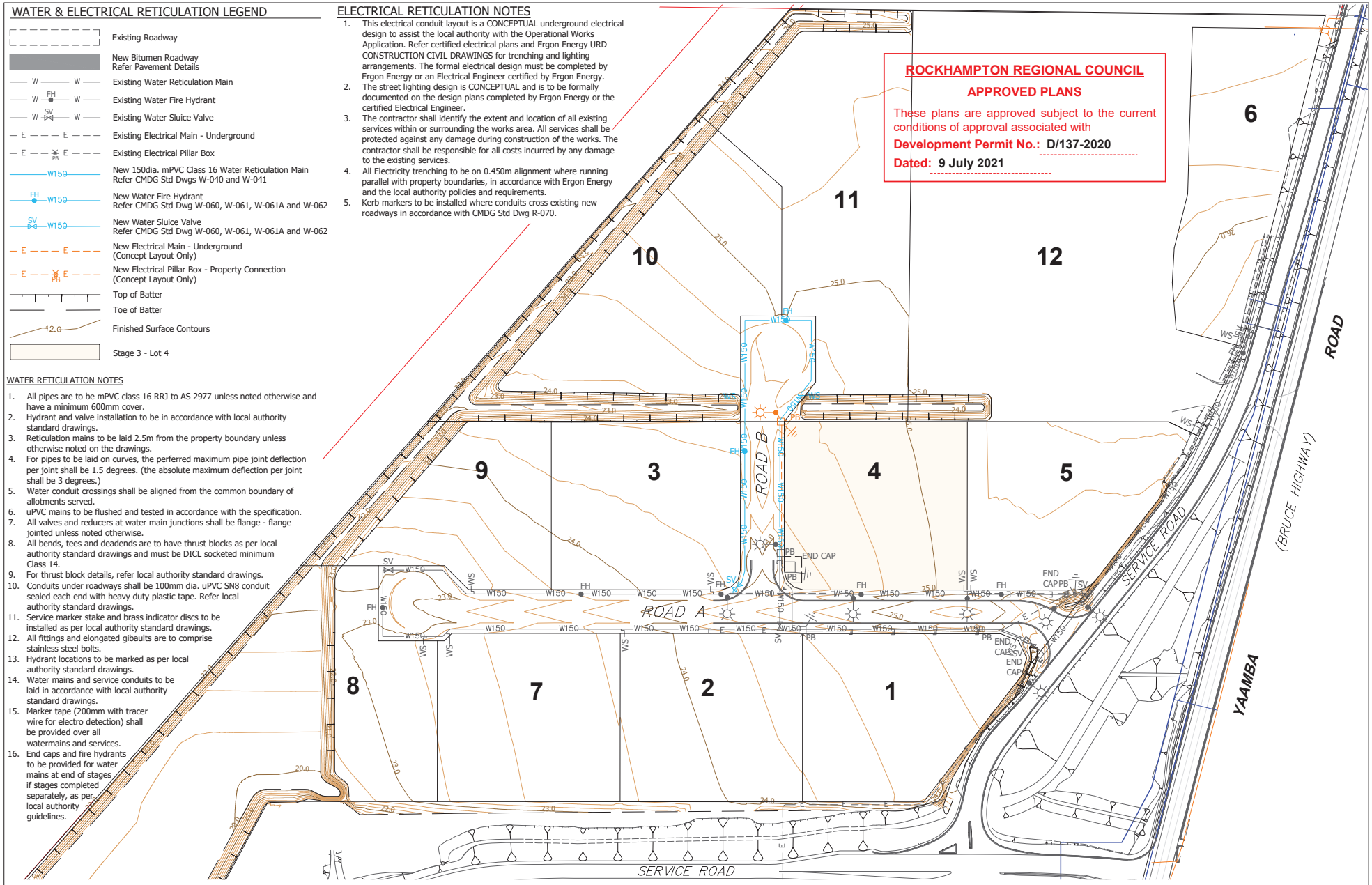

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CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS:
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LILY PLACE ESTATE
WATER & ELECTRICAL RETICULATION PLAN - STAGE 3

PLAN NUMBER: SCE-115-033
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

WATER & ELECTRICAL RETICULATION LEGEND

- Existing Roadway
- New Bitumen Roadway
  Refer Pavement Details
- Existing Water Reticulation Main
- Existing Water Fire Hydrant
- Existing Water Sluice Valve
- Existing Electrical Main - Underground
- Existing Electrical Pillar Box
- New 150dia. mPVC Class 16 Water Reticulation Main
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  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Water Sluice Valve
  Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Electrical Main - Underground
  (Concept Layout Only)
- New Electrical Pillar Box - Property Connection
  (Concept Layout Only)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Stage 4 - Lots 2 & 3

WATER RETICULATION NOTES

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2. The street lighting design is CONCEPTUAL and is to be formally documented on the design plans completed by Ergon Energy or the certified Electrical Engineer.
3. The contractor shall identify the extent and location of all existing services within or surrounding the works area. All services shall be protected against any damage during construction of the works. The contractor shall be responsible for all costs incurred by any damage to the existing services.
4. All Electricity trenching to be on 0.450m alignment where running parallel with property boundaries, in accordance with Ergon Energy and the local authority policies and requirements.
5. Kerb markers to be installed where conduits cross existing new roadways in accordance with CMDG Std Dwg R-070.

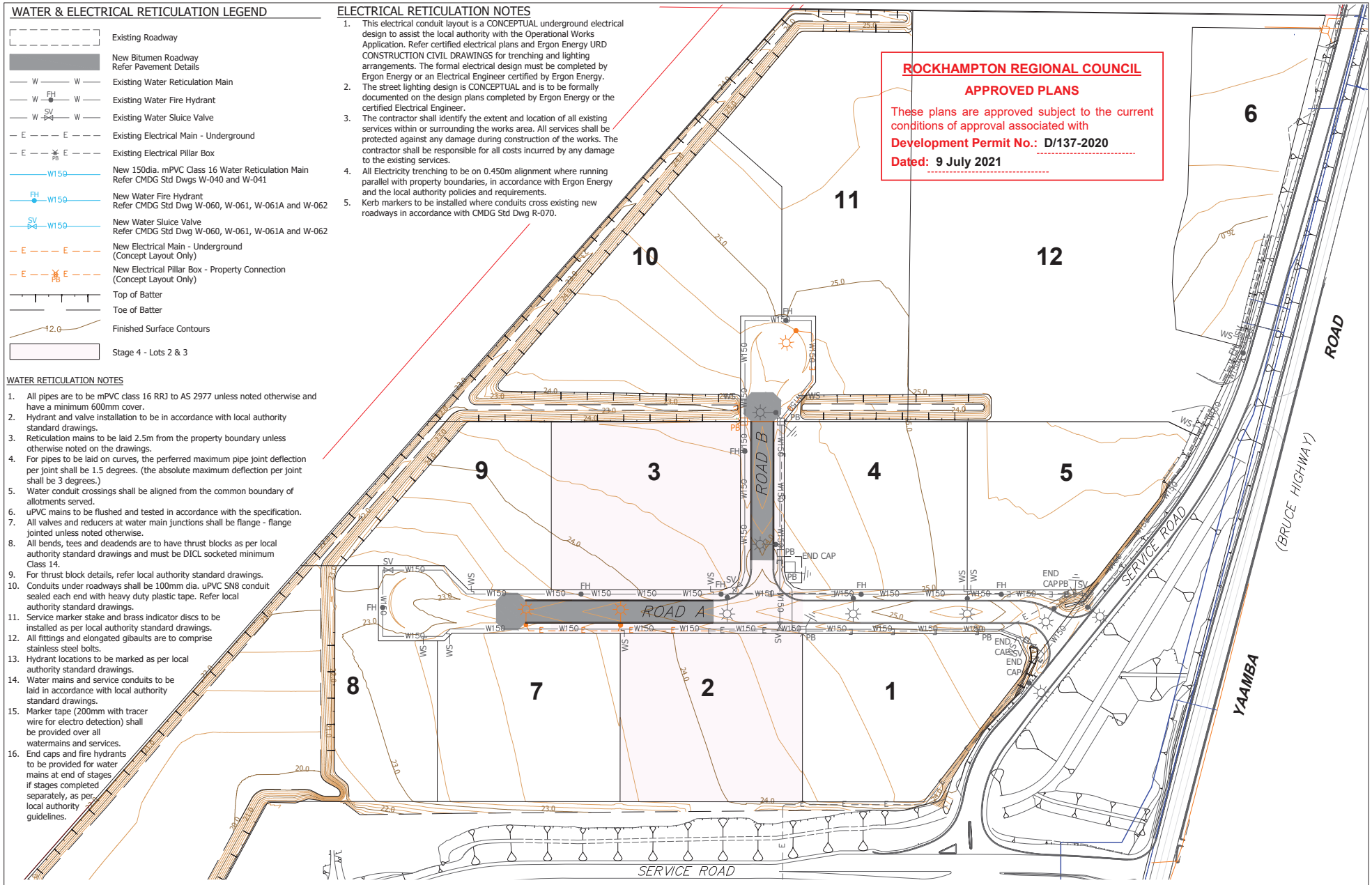
ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021



ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
B	DWC	JDD	02/21	RRC RFI RESPONSE
C	DWC	JDD	05/21	RRC RFI RESPONSE
D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS:
LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703
ABN:34 481 028 699

LILY PLACE ESTATE
WATER & ELECTRICAL RETICULATION
PLAN - STAGE 4

PLAN NUMBER: SCE-115-034
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

WATER & ELECTRICAL RETICULATION LEGEND

- Existing Roadway
- New Bitumen Roadway — Refer Pavement Details
- Existing Water Reticulation Main
- Existing Water Fire Hydrant
- Existing Water Sluice Valve
- Existing Electrical Main - Underground
- Existing Electrical Pillar Box
- New 150dia. mPVC Class 16 Water Reticulation Main — Refer CMDG Std Dwgs W-040 and W-041
- New Water Fire Hydrant — Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Water Sluice Valve — Refer CMDG Std Dwg W-060, W-061, W-061A and W-062
- New Electrical Main - Underground (Concept Layout Only)
- New Electrical Pillar Box - Property Connection (Concept Layout Only)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Stage 6 - Lots 7, 8 & 9

ELECTRICAL RETICULATION NOTES

1. This electrical conduit layout is a CONCEPTUAL underground electrical design to assist the local authority with the Operational Works Application. Refer certified electrical plans and Ergon Energy URD CONSTRUCTION CIVIL DRAWINGS for trenching and lighting arrangements. The formal electrical design must be completed by Ergon Energy or an Electrical Engineer certified by Ergon Energy.
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4. All Electricity trenching to be on 0.450m alignment where running parallel with property boundaries, in accordance with Ergon Energy and the local authority policies and requirements.
5. Kerb markers to be installed where conduits cross existing new roadways in accordance with CMDG Std Dwg R-070.

WATER RETICULATION NOTES

1. All pipes are to be mPVC class 16 RRJ to AS 2977 unless noted otherwise and have a minimum 600mm cover.
2. Hydrant and valve installation to be in accordance with local authority standard drawings.
3. Reticulation mains to be laid 2.5m from the property boundary unless otherwise noted on the drawings.
4. For pipes to be laid on curves, the perferred maximum pipe joint deflection per joint shall be 1.5 degrees. (the absolute maximum deflection per joint shall be 3 degrees.)
5. Water conduit crossings shall be aligned from the common boundary of allotments served.
6. uPVC mains to be flushed and tested in accordance with the specification.
7. All valves and reducers at water main junctions shall be flange - flange jointed unless noted otherwise.
8. All bends, tees and deadends are to have thrust blocks as per local authority standard drawings and must be DICL socketed minimum Class 14.
9. For thrust block details, refer local authority standard drawings.
10. Conduits under roadways shall be 100mm dia. uPVC SN8 conduit sealed each end with heavy duty plastic tape. Refer local authority standard drawings.
11. Service marker stake and brass indicator discs to be installed as per local authority standard drawings.
12. All fittings and elongated gibaults are to comprise stainless steel bolts.
13. Hydrant locations to be marked as per local authority standard drawings.
14. Water mains and service conduits to be laid in accordance with local authority standard drawings.
15. Marker tape (200mm with tracer wire for electro detection) shall be provided over all watermains and services.
16. End caps and fire hydrants to be provided for water mains at end of stages if stages completed separately, as per local authority guidelines.

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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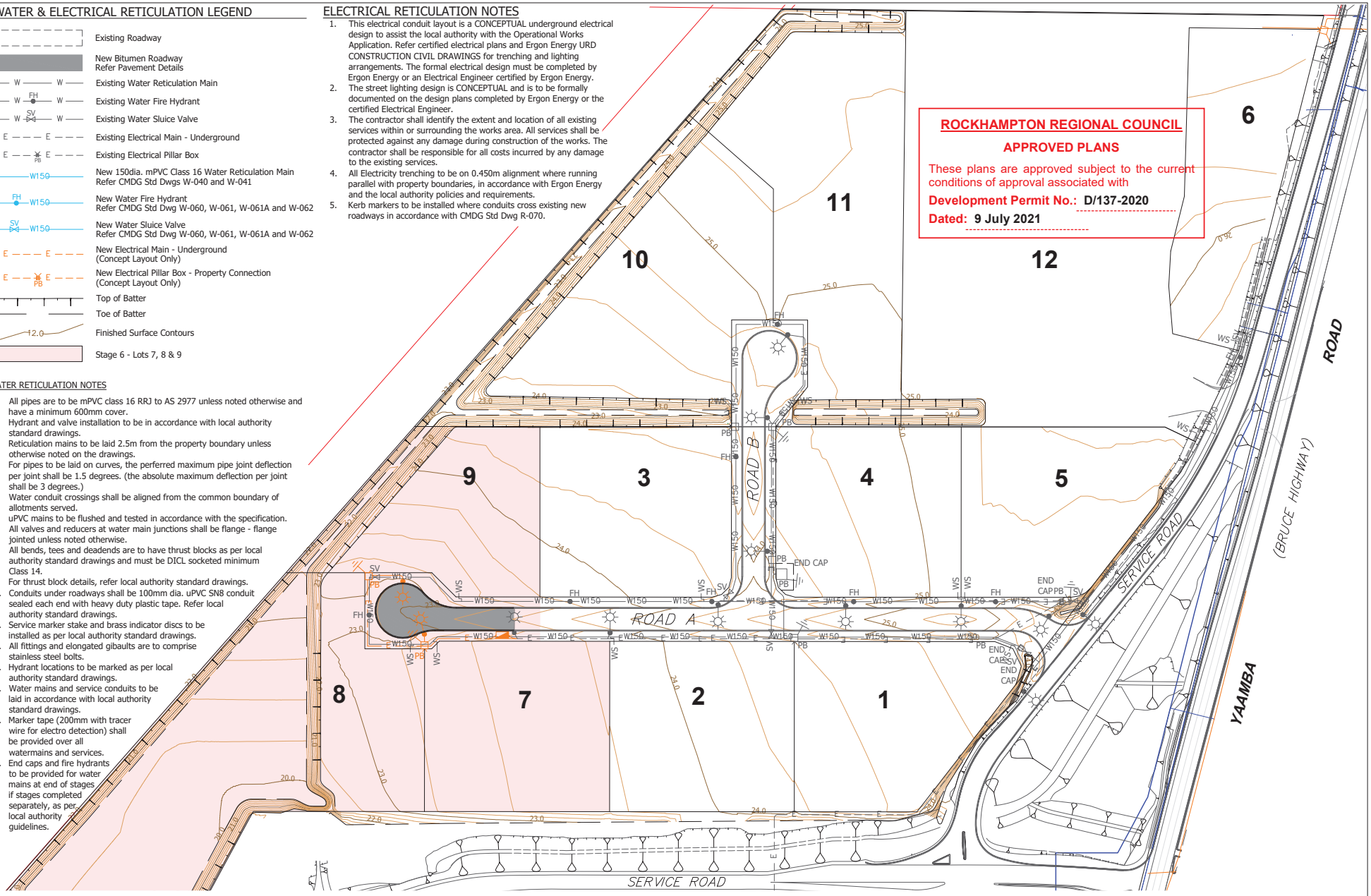
Development Permit No.: D/137-2020

Dated: 9 July 2021



ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
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DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

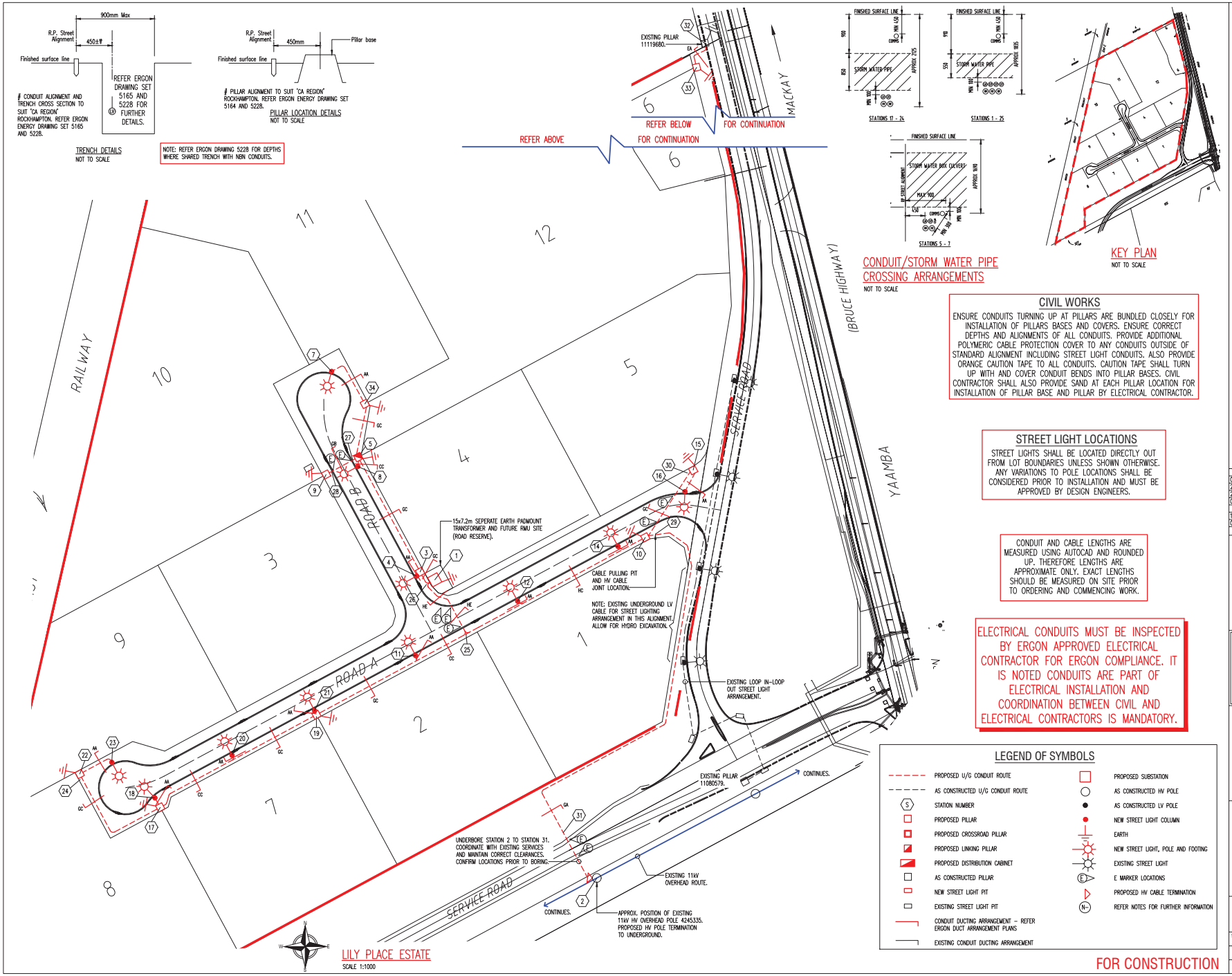
DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703
ABN:34 481 028 699

LILY PLACE ESTATE
WATER & ELECTRICAL RETICULATION PLAN - STAGE 6

PLAN NUMBER: SCE-115-035
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT



GENERAL NOTES:

ON JOB COMPLETION MARK UP THIS PRINT CLEARLY WITH ALL FIELD CHANGES AND RETURN TO NETWORK DATA GROUP FOR YOUR REGION.

CHANGES: YES / NO

COMPLETION DATE: _____

NAME: _____

POSITION: _____

SIGNITURE: _____

DATE: _____

ANDERSON CONSULTING ENGINEERS
RPEQ 4383

Date	Rev	Details	App
04/08/21	G	STATION 5 AMENDED.	GA
21/07/21	F	FOR CONSTRUCTION.	GA
20/07/21	E	ADD STN 34 & REPOSITION STN 7&8.	GA
07/07/21	D	REPOSITIONED PILLARS FOR LOTS 1&2 & STREET LIGHTS ST 11, 12, 14	GA
17/06/21	C	REPOSITIONED STN 4,11,12,14. ADD 33.	GA
01/04/21	B	FOR CONSTRUCTION	GA

Client

PARKHURST HOLDINGS PTY LTD.

WRN: 1639963

ANDERSON CONSULTING ENGINEERS
43 Denison Street, Rockhampton, Q. 4700
P.O. Box 27, Rockhampton, Q. 4700
Phone: (07) 4927 2077
Facsimile: (07) 4927 2882
ACN 112 866 529 ABN 98 112 866 529

Project:

LILY PLACE ESTATE

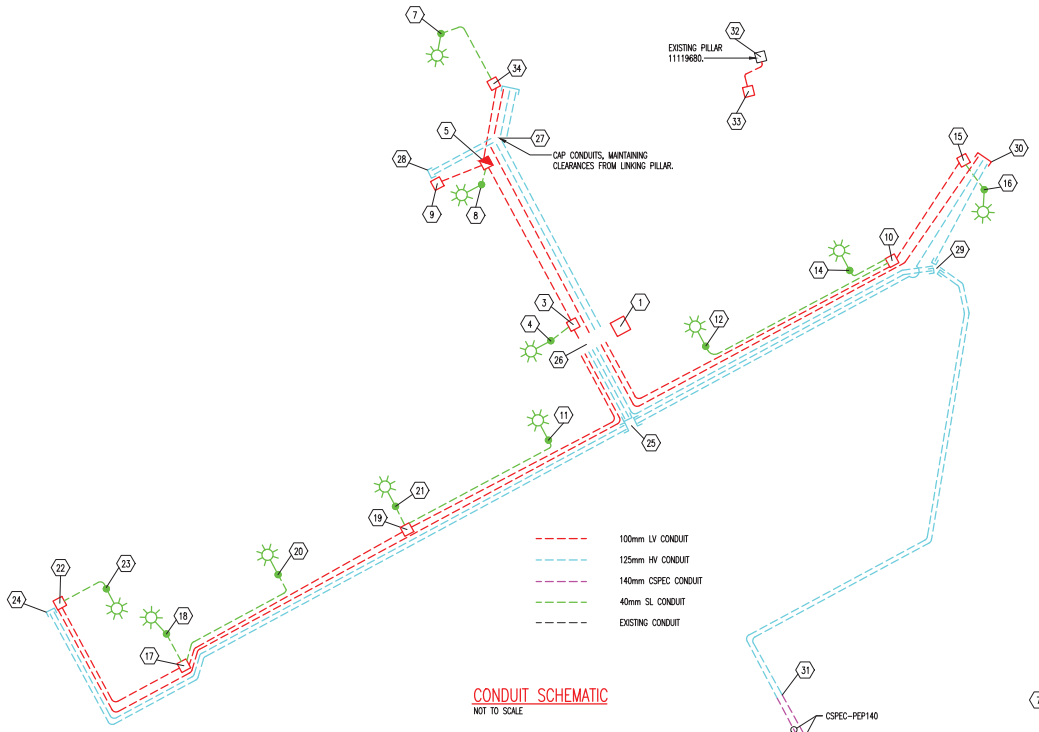
777 YAAMBA RD, PARKHURST.
COMMERCIAL/INDUSTRIAL SUBDIVISION.

Title:

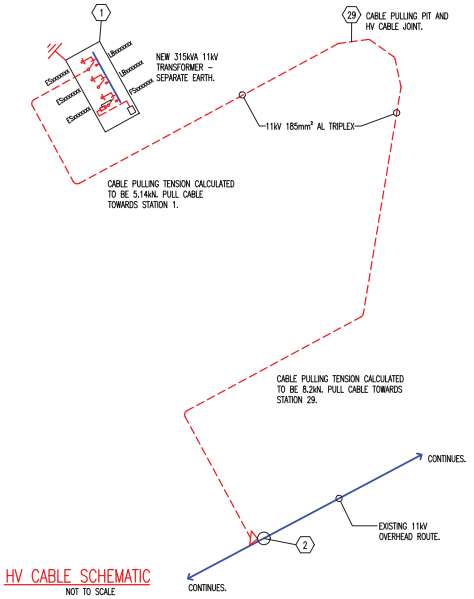
ELECTRICAL SERVICES
SITE PLAN.
LEGEND OF SYMBOLS.
NOTES.

Drawing No: **20293-E001** Rev: **G**

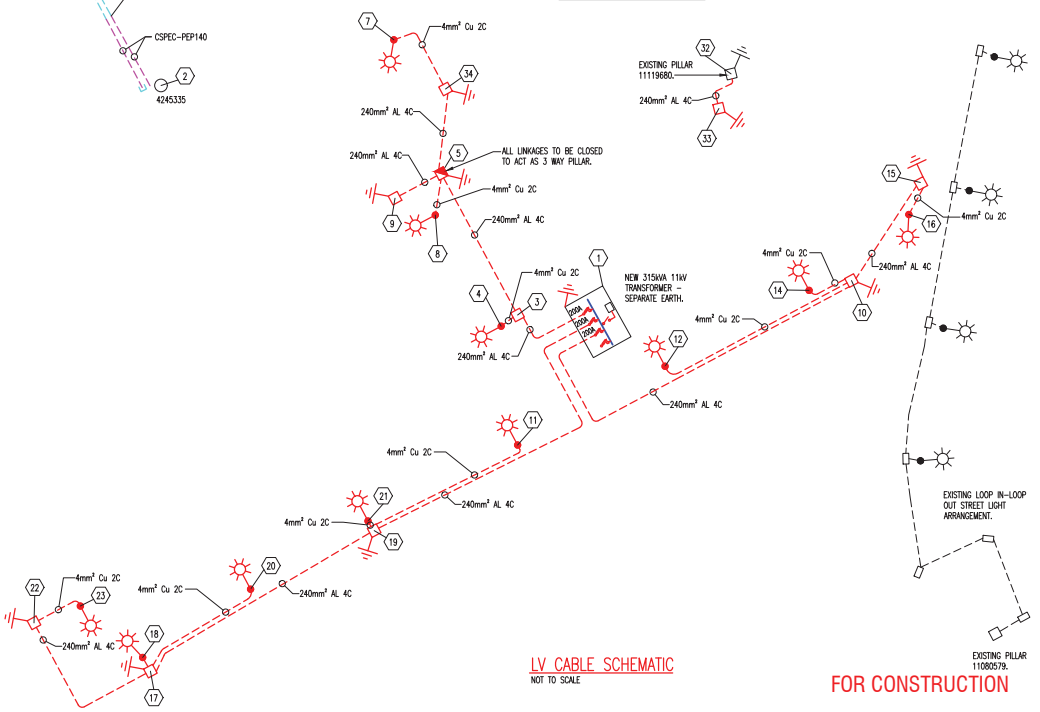
Scale:	1:1000	Designed:	JPM
Drawn:	CG	Certified:	GA
Date:	DECEMBER 2020	No: 1 Of: 3	A1



CONDUIT SCHEMATIC
NOT TO SCALE



HV CABLE SCHEMATIC
NOT TO SCALE



LV CABLE SCHEMATIC
NOT TO SCALE

FOR CONSTRUCTION

GENERAL NOTES

1. PROVIDE TRENCHING FOR INSTALLATION OF UNDERGROUND CONDUITS, INSTALLATION OF ROAD LIGHT FOUNDATIONS AND SITE FINISH. INSTALL DRAW WIRES IN ALL CONDUITS FOR PULLING OF FUTURE CABLES.

2. THIS PLAN IS TO BE READ IN CONJUNCTION WITH ERGON ENERGY'S STANDARD DRAWINGS, MANUALS AND SPECIFICATIONS INCLUDING THE FOLLOWING:
   - DISTRIBUTION DESIGN MANUAL.
   - DISTRIBUTION FIELD MANUAL.
   - UNDERGROUND CONSTRUCTION MANUAL.
   - OVERHEAD CONSTRUCTION MANUAL.
   - LIGHTING CONSTRUCTION MANUAL.
   - STANDARD SPECIFICATIONS.

3. APPROVED MATERIALS TO BE PROVIDED INCLUDING POLYMERIC CABLE PROTECTION COVER, ORANGE WARNING TAPE, CONDUIT/CABLE MARKERS, CONDUITS, ROAD LIGHTING FOUNDATIONS, AND DRAW CORDS. ALL MATERIALS INCLUDING THOSE LISTED IN UDC CIVIL WORKS SHALL BE ERGON ENERGY APPROVED.

4. ELECTRICAL PRE–START MEETING, AUDITS, CABLE INSTALLATION, PILLAR INSTALLATION, CABLE TERMINATING AND JOINTING, ROAD LIGHTING, EQUIPMENT IDENTIFICATION AND NUMBERING, TESTING AND EARTHING SHALL BE AS PER UDC ELECTRICAL WORKS AND REFERENCED DOCUMENTS.

5. INSTALLATION AND LOCATIONS OF EQUIPMENT TO BE AS PER ERGON ENERGY'S UNDERGROUND CONSTRUCTION MANUAL (INCLUDING SPECIFIC REGION REQUIREMENTS), AND THE LIGHTING CONSTRUCTION MANUAL.

6. DO NOT SCALE FROM DRAWINGS, SITE MEASURE PRIOR TO ORDERING ANY ITEMS. DIMENSIONS SHOWN ARE IN METERS UNLESS OTHERWISE NOTED.

7. ALL WORK SHALL COMPLY WITH AS3000, AS3008 AND THE ELECTRICITY SAFETY ACT.

8. 100mm DIAMETER UNDERGROUND CONDUIT IS FOR RETICULATION OF LV TO PILLARS. 40mm DIAMETER UNDERGROUND CONDUITS ARE FOR RETICULATION TO STREET LIGHTS AND INTO PROPERTIES. PVC END CAPS SHALL BE INSTALLED ON 40mm DIAMETER UNDERGROUND CONDUITS INTO PROPERTIES FOR FUTURE CONNECTION BY OTHERS.

9. SERVICE PHASES MUST BE BALANCED OVER THREE PHASES CONTINUOUSLY ALONG THE CIRCUIT TO EACH PROPERTY, AND STREET LIGHTS.

10. TRENCHES SHALL BE LEFT OPEN UNTIL COMMUNICATIONS CONDUITS AND ASSOCIATED EQUIPMENT HAVE BEEN INSTALLED. COORDINATE INSTALLATION OF UNDERGROUND COMMUNICATION SERVICES.

11. CONDUIT DEPTHS, ALIGNMENTS & TRENCHING DETAIL REFER 'UNDERGROUND CONSTRUCTION MANUAL' TRENCHING DRAWING 5165. PROVIDE POLYMERIC CABLE PROTECTION COVER IN ACCORDANCE WITH 'UNDERGROUND CONSTRUCTION MANUAL' CONSTRUCTION PRACTICES.

UNDERGROUND SERVICES

UNDERGROUND SERVICES SHOWN ARE INDICATIVE ONLY. CONSTRUCTION CONTRACTOR TO ENSURE THE NOMINATED SITE IS CLEAR OF ANY UNDERGROUND SERVICES PRIOR TO ANY EXCAVATION OR TRENCHING. (DIAL BEFORE YOU DIG. PH: 1100. FAX: 07 3394 4080)

ONSITE SERVICES CHECKS

UNDERGROUND SERVICES SHOWN ON THIS PLAN IN THE VICINITY OF PROPOSED EXCAVATION ARE INDICATIVE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF DAMAGE TO ANY EXISTING UNDERGROUND ASSETS CAUSED BY HIS WORKS AND THE RE–ESTABLISHMENT OF ANY SURVEY MARKS DISLODGED. THE CONTRACTOR SHALL REQUEST ON SITE IDENTIFICATION AND LOCATION OF EXISTING UNDERGROUND SERVICES FROM THE QUEENSLAND DIAL BEFORE YOU DIG SERVICE. PH: 1100. FAX: 07 3394 4080. A MINIMUM OF TWO DAYS NOTICE IS NORMALLY REQUIRED.

STREET LIGHTING NOTES

1. OUTREACHS SHALL BE AT RIGHT ANGLES TO THE CARRIAGEWAY UNLESS SHOWN OTHERWISE.
2. ALL LUMINAIRES SHALL BE FITTED WITH INDIVIDUAL PHOTOCELL AS SPECIFIED BY ERGON.
3. OBTAIN PRIOR APPROVAL FROM OVERSEEING ORGANISATION BEFORE SWITCHING ON OR OFF, DISMANTLING, REPLACING OR REMOVING ANY LIGHTING UNITS.
4. AFTER INSTALLATION AND ENERGISING OF NEW LUMINAIRES PROVIDE SPILL LIGHT/GLARE SHIELDS AS REQUIRED TO MINIMISE ANNOYANCE TO PROPERTIES.

ON JOB COMPLETION MARK UP THIS PRINT CLEARLY WITH ALL FIELD CHANGES AND RETURN TO NETWORK DATA GROUP FOR YOUR REGION.

	CHANGES: YES / NO
COMPLETION DATE:	
NAME:	
POSITION:	
SIGNITURE:	
DATE:	

ANDERSON CONSULTING ENGINEERS
RPEQ 4383

GENERAL NOTES:

Date	Rev	Details	App
04/08/21	G	STATION 5 AMENDED.	GA
20/07/21	F	FOR CONSTRUCTION	GA
20/07/21	E	ADD STN 34 & REPOSITION STN 7&8.	GA
07/07/21	D	REPOSITIONED PILLARS FOR LOTS 1&2 & STREET LIGHTS ST 11, 12, 14	GA
17/06/21	C	REPOSITIONED STN 4,11,12,14. ADD 33.	GA
01/04/21	B	FOR CONSTRUCTION	GA

Client
PARKHURST HOLDINGS PTY LTD.

WRN: 1639963

ANDERSON CONSULTING ENGINEERS
43 Denison Street, Rockhampton, Q. 4700
P.O. Box 27, Rockhampton, Q. 4700
Phone: (07) 4927 2077
Facsimile: (07) 4927 2882
ACN 112 866 529 ABN 98 112 866 529

Project:
LILY PLACE ESTATE

777 YAAMBA RD, PARKHURST.
COMMERCIAL/INDUSTRIAL SUBDIVISION.

Title:
ELECTRICAL SERVICES
SCHEMATICS.
NOTES.

Drawing No: **20293-E002** Rev: **G**

Scale:	AS NOTED	Designed:	JPM
Drawn:	CG	Certified:	GA
Date:	DECEMBER 2020	No: 2 Of: 3	A1

ERGON SCHEDULE OF WORKS

STN NO	SITE LABEL	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	REMARKS
2	4245335	INSTALL	HV POLE TERMINATION	11CTP/185TI/M	5101	HV POLE TERMINATION CONNECTION AT STATION 2.
32	11119680	UPGRADE	PILLAR – 2WAY	LVPN2I-2/240	5026	ERGON TO UPGRADE AND CONNECT.

NOTE THAT THESE WORKS ARE BY ERGON AND NOT BY THE ELECTRICAL CONTRACTOR.

CONSTRUCTION SCHEDULE

STN NO	SITE LABEL	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	REMARKS
1	50861490	INSTALL	PADMOUNT SUBSTATION	PM11/315/RDAH2S1F	5368	
1	11759538	INSTALL	SUBSTATION FOUNDATION	PMF11U	5000, 5004, 5005	
1	–	INSTALL	DISTRIBUTION PADLOCK	595-5	–	
1	50861490	INSTALL	SUBSTATION EARTH	EPM11/SEP	5014	
1	50861490	INSTALL	HV CABLE TERMINATION	11PM/CTC/RDAH/185TI	5373	
1	50861490	INSTALL	LV CABLE TERMINATION	LVCTPM11/240	5087	
1	–	INSTALL	LV ISOLATING DEVICE	529-13	529	200AMP FUSE.
1	50861490	INSTALL	LV CABLE TERMINATION	LVCTPM11/240	5087	
1	–	INSTALL	LV ISOLATING DEVICE	529-13	529	200AMP FUSE.
1	50861490	INSTALL	LV CABLE TERMINATION	LVCTPM11/240	5087	
1	–	INSTALL	LV ISOLATING DEVICE	529-13	529	200AMP FUSE.
2	4245335	INSTALL	HV POLE TERMINATION	11CTP/185TI/M	5101	BY ERGON. HV POLE TERMINATION CONNECTION AT STATION 2.
3	11759539	INSTALL	PILLAR – 2WAY & SL	LVPN2/65/240	5026	
4	11759531	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
5	11759524	INSTALL	LINKING PILLAR – 3WAY & SL	LVPL3/65/240	5382	PROVIDE 32AMP STREET LIGHT FUSE.
5	11759524	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
7	11759528	INSTALL	COLUMN MAJOR	SLBPM/105/145/UG/C11	1-5-6-1	4.5m OUTREACH.
8	11759541	INSTALL	COLUMN MAJOR	SLBPM/105/145/UG/C11	1-5-6-1	4.5m OUTREACH.
9	11759532	INSTALL	PILLAR – C&I TYPE A 1WAY	LVPCA1/3/240	5102	
9	11759532	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
10	11759525	INSTALL	PILLAR – C&I TYPE A 2WAY & SL	LVPCA2/3S/240	5102	ADDITIONAL STREET LIGHT FUSE.
10	11759525	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
11	11759527	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
12	11759521	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
14	11759535	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
15	11759536	INSTALL	PILLAR – C&I TYPE A 1WAY & SL	LVPCA1/3S/240	5102	
15	11759536	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
16	11759534	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
17	11759540	INSTALL	PILLAR – C&I TYPE A 2WAY & SL	LVPCA2/3S/240	5102	ADDITIONAL STREET LIGHT FUSE.
17	11759540	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
18	11759528	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
19	11759533	INSTALL	PILLAR – C&I TYPE A 2WAY & SL	LVPCA2/3S/240	5102	ADDITIONAL STREET LIGHT FUSE.
20	11759522	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
21	11759537	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
22	11759523	INSTALL	PILLAR – C&I TYPE A 1WAY & SL	LVPCA1/3S/240	5102	
22	11759523	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
23	11759529	INSTALL	COLUMN MAJOR	SLBPM/105/130/UG/C11	1-5-6-1	
29	–	INSTALL	HV CABLE JOINT	11I-CJS185T	–	PROVIDE ELECTRONIC CABLE MARKER TO JOINT LOCATION
33	11812320	INSTALL	PILLAR – C&I TYPE A 1WAY	LVPCA1/3/240	5102	
33	11812320	INSTALL	PILLAR EARTH	EMEN/PIL	5085	
34	–	INSTALL	PILLAR – C&I TYPE A 1WAY & SL	LVPCA1/3S/240	5102	
34	–	INSTALL	PILLAR EARTH	EMEN/PIL	5085	

CONDUIT DUCTING SCHEDULE – LV

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	BENDS	REMARKS
1	3	INSTALL	C100L	6.0	1x45°1200R	
1	10	INSTALL	C100L	159.0	1x45°1200R; 6x15°1830R; 2x45°1830R	2 x E MARKERS
1	19	INSTALL	C100L	139.0	1x45°1200R; 6x15°1830R; 2x45°1830R	
1	24	INSTALL	C100L	321.5	6x15°1830R; 6x45°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
1	27	INSTALL	C100L	83.0	–	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
1	30	INSTALL	C100L	207.5	10x15°1830R; 3x45°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL. 2 x E MARKERS.
3	4	INSTALL	C40H	5.0	2x90°300R	
3	5	INSTALL	C100L	77.0	2x45°1200R	
5	8	INSTALL	C40H	7.0	2x90°300R	
5	9	INSTALL	C100L	25.0	2x45°1200R; 4x15°1830R	2 x E MARKERS
5	34	INSTALL	C100L	29.0	2x45°1200R; 1x30°1830R	
10	12	INSTALL	C40H	87.0	2x90°300R; 1x90°600R	
10	14	INSTALL	C40H	21.0	2x90°300R; 1x90°600R	
10	15	INSTALL	C100L	49.5	2x45°1200R; 4x15°1830R	
15	16	INSTALL	C40H	16.0	2x90°300R	
17	18	INSTALL	C40H	8.5	2x90°300R	
17	20	INSTALL	C40H	56.5	1x90°300R; 1x90°600R	
17	19	INSTALL	C100L	106.5	1x45°1200R; 2x45°1830R	
19	11	INSTALL	C40H	72.0	2x90°300R; 1x90°600R	
19	21	INSTALL	C40H	4.5	2x90°300R	
17	22	INSTALL	C100L	76.5	2x45°1200R; 2x45°1830R	
22	23	INSTALL	C40H	26.5	2x90°300R; 1x90°600R	
27	34	INSTALL	C100L	29.0	–	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
32	33	INSTALL	C100L	18.5	2x45°1200R; 4x45°1830R	ERGON TO CONNECT TO STN 32.
34	7	INSTALL	C40H	35.5	2x90°300R; 1x90°600R	

// INSTALL ORANGE CAUTION TAPE AND POLYMERIC CABLE PROTECTION COVER AS SHOWN ON DRAWINGS IN UNDERGROUND CONSTRUCTION MANUAL. ANY CONDUITS OUTSIDE OF STANDARD ALIGNMENT INCLUDING ROAD CROSSINGS AND STREET LIGHT CONDUITS REQUIRE ADDITIONAL POLYMERIC CABLE PROTECTION OVER.
// ALSO REFER CONDUIT SCHEMATIC.
// PROVIDE 90°300R SERVICE CONDUITS INTO THE PROPERTY BOUNDARIES FROM PILLARS (NOT LISTED IN THE CONDUIT DUCTING SCHEDULE ABOVE).

CONDUIT DUCTING SCHEDULE – HV

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	BENDS	REMARKS
1	25	INSTALL	C125L	40.0	6x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
1	25	INSTALL	C125L	40.0	6x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
1	27	INSTALL	C125L	83.0	–	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
1	27	INSTALL	C125L	83.0	–	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
1	29	INSTALL	C125L	161.0	7x15°1830R; 2x45°1830R	
2	31	INSTALL	CSPEC – PEP140	33.0	UNDERBORE	2 x E MARKERS. UNDERBORE. REFER RSC09.
2	31	INSTALL	CSPEC – PEP140	33.0	UNDERBORE	UNDERBORE. REFER RSC09. SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
24	25	INSTALL	C125L	282.5	4x45°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
24	25	INSTALL	C125L	282.5	4x45°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
25	29	INSTALL	C125L	122.0	1x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
25	30	INSTALL	C125L	168.5	5x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
27	28	INSTALL	C125L	25.0	4x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
27	28	INSTALL	C125L	25.0	4x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
27	34	INSTALL	C125L	29.0	1x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
27	34	INSTALL	C125L	29.0	1x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
29	30	INSTALL	C125L	50.0	4x15°1830R	SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.
29	31	INSTALL	C125L	230.0		
29	31	INSTALL	C125L	230.0		SPARE. CAP WITH ELECTRONIC CABLE MARKER BALL.

// INSTALL ORANGE CAUTION TAPE AND POLYMERIC CABLE PROTECTION COVER AS SHOWN ON DRAWINGS IN UNDERGROUND CONSTRUCTION MANUAL. ANY CONDUITS OUTSIDE OF STANDARD ALIGNMENT INCLUDING ROAD CROSSINGS AND STREET LIGHT CONDUITS REQUIRE ADDITIONAL POLYMERIC CABLE PROTECTION OVER.
// ALSO REFER CONDUIT SCHEMATIC.

PUBLIC LIGHTING SCHEDULE

STN NO	SITE LABEL	ACTION	LUMINAIRE DESCRIPTION	STRUCTURE DESCRIPTION	RATE	OWNER	MOUNTING HEIGHT (m)	REMARKS	ORIENTATION (DEGREES FROM EAST)	LOCATION
4	11759531	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	208°	X CO-ORD 245540.84; Y CO-ORD 7420438.88. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
7	11759526	INSTALL	SLED PH 080B A	SLBPM90/1/45/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST, 4.5m OUTREACH.	254°	X CO-ORD 245491.85; Y CO-ORD 7420557.71. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
8	11759541	INSTALL	SLED PH 0509 A	SLBPM90/1/45/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST, 4.5m OUTREACH.	208°	X CO-ORD 245506.02; Y CO-ORD 7420502.91. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
11	11759527	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	298°	X CO-ORD 245540.20; Y CO-ORD 7420394.09. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
12	11759521	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	298°	X CO-ORD 245598.83; Y CO-ORD 7420425.40. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
14	11759535	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	298°	X CO-ORD 245656.72; Y CO-ORD 7420456.92. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
16	11759534	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	267°	X CO-ORD 245695.72; Y CO-ORD 7420488.54. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
18	11759528	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	133°	X CO-ORD 245390.15; Y CO-ORD 7420312.17. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
20	11759522	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	118°	X CO-ORD 245434.51; Y CO-ORD 7420336.73. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
21	11759537	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	118°	X CO-ORD 245482.08; Y CO-ORD 7420362.33. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.
23	11759529	INSTALL	SLED PH 0509 A	SLBPM90/1/30/UGCI1	NPL2L-MAJOR	ROCKHAMPTON REGIONAL COUNCIL	10.5	0° UPCAST.	298°	X CO-ORD 245365.36; Y CO-ORD 7420332.62. USE CO-ORDINATES AS A GUIDE ONLY. ENSURE POLE MOUNTED MINIMUM 1.0m FROM BACK OF KERB TO FRONT OF POLE.

// REFER ERGON ENERGY LIGHTING CONSTRUCTION MANUAL, FOR DETAILS OF CAST IN SITU FOUNDATION. FOUNDATION DEPTH AND HOLD DOWN BOLT ASSEMBLY PCD SHALL BE TO SUIT COLUMN TYPE (MINOR OR MAJOR).

ELECTRICAL CONDUITS MUST BE INSPECTED BY ERGON APPROVED ELECTRICAL CONTRACTOR FOR ERGON COMPLIANCE. IT IS NOTED CONDUITS ARE PART OF ELECTRICAL INSTALLATION AND COORDINATION BETWEEN CIVIL AND ELECTRICAL CONTRACTORS IS MANDATORY.

CIVIL WORKS

ENSURE CONDUITS TURNING UP AT PILLARS ARE BUNDLED CLOSELY FOR INSTALLATION OF PILLARS BASES AND COVERS. ENSURE CORRECT DEPTHS AND ALIGNMENTS OF ALL CONDUITS. PROVIDE ADDITIONAL POLYMERIC CABLE PROTECTION COVER TO ANY CONDUITS OUTSIDE OF STANDARD ALIGNMENT INCLUDING STREET LIGHT CONDUITS. ALSO PROVIDE ORANGE CAUTION TAPE TO ALL CONDUITS. CAUTION TAPE SHALL TURN UP WITH AND COVER CONDUIT BENDS INTO PILLAR BASES. CIVIL CONTRACTOR SHALL ALSO PROVIDE SAND AT EACH PILLAR LOCATION FOR INSTALLATION OF PILLAR BASE AND PILLAR BY ELECTRICAL CONTRACTOR.

STREET LIGHT LOCATIONS

STREET LIGHTS SHALL BE LOCATED DIRECTLY OUT FROM LOT BOUNDARIES UNLESS SHOWN OTHERWISE. ANY VARIATIONS TO POLE LOCATIONS SHALL BE CONSIDERED PRIOR TO INSTALLATION AND MUST BE APPROVED BY DESIGN ENGINEERS.

UNDERGROUND CABLE SCHEDULE – LV

STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH (m)	CABLE LENGTH (m)	REMARKS
1	3	INSTALL	415V	LV-240C4/673	6.0	16.0	
1	10	INSTALL	415V	LV-240C4/673	159.0	169.0	
1	19	INSTALL	415V	LV-240C4/673	139.0	149.0	
3	4	INSTALL	240V	LVI-4CU2NS/1671	5.0	9.0	
3	5	INSTALL	415V	LV-240C4/673	77.0	81.0	
34	7	INSTALL	240V	LVI-4CU2NS/1671	35.5	39.5	
5	8	INSTALL	240V	LVI-4CU2NS/1671	7.0	11.0	
5	9	INSTALL	415V	LV-240C4/673	25.0	29.0	
5	34	INSTALL	415V	LV-240C4/673	29.0	33.0	
10	12	INSTALL	240V	LVI-4CU2NS/1671	87.0	91.0	
10	14	INSTALL	240V	LVI-4CU2NS/1671	21.0	25.0	
10	15	INSTALL	415V	LV-240C4/673	49.5	53.5	
15	16	INSTALL	240V	LVI-4CU2NS/1671	16.0	20.0	
17	18	INSTALL	240V	LVI-4CU2NS/1671	8.5	12.5	
17	20	INSTALL	240V	LVI-4CU2NS/1671	56.5	60.5	
17	19	INSTALL	415V	LV-240C4/673	106.5	110.5	
19	11	INSTALL	240V	LVI-4CU2NS/1671	72.0	76.0	
19	21	INSTALL	240V	LVI-4CU2NS/1671	4.5	8.5	
17	22	INSTALL	415V	LV-240C4/673	77.0	81.0	
22	23	INSTALL	240V	LVI-4CU2NS/1671	26.5	30.5	
32	33	INSTALL	415V	LV-240C4/673	18.5	22.5	ERGON TO CONNECT AT STN 32.

UNDERGROUND CABLE SCHEDULE – HV

STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH (m)	CABLE LENGTH (m)	REMARKS
1	29	INSTALL	11kV	11I-185T/1720	162.0	168.0	CABLE JOINT IN CABLE PULLING PIT LOCATED AT STATION 29.
2	29	INSTALL	11kV	11I-185T/1720	262.0	270.0	POLE TERMINATION CONNECTION AT STN 2 BY ERGON.

SITE MEASURE PRIOR TO ORDERING HV CABLE.

TOTAL CONDUIT LENGTHS REQUIRED (m)

C100L	1327.0
C40H	339.5
C125L	1822.5
CSPEC – PEP140	66.0

TOTAL CABLE LENGTHS REQUIRED (m)

LV-240C4/673	744.5
LVI-4CU2NS/1671	383.5
11I-185T/1720	438.0

CONDUIT AND CABLE LENGTHS ARE MEASURED USING AUTOCAD AND ROUNDED UP. THEREFORE LENGTHS ARE APPROXIMATE ONLY. EXACT LENGTHS SHOULD BE MEASURED ON SITE PRIOR TO ORDERING AND COMMENCING WORK.

ANDERSON CONSULTING ENGINEERS
RPEQ 4383

ON JOB COMPLETION MARK UP THIS PRINT CLEARLY WITH ALL FIELD CHANGES AND RETURN TO NETWORK DATA GROUP FOR YOUR REGION.

CHANGES: YES / NO

COMPLETION DATE: _____
NAME: _____
POSITION: _____
SIGNITURE: _____
DATE: _____

FOR CONSTRUCTION

GENERAL NOTES:

Date	Rev	Details	App
04/08/21	H	STATION 5 AMENDED.	GA
21/07/21	G	FOR CONSTRUCTION.	GA
20/07/21	F	ADD STN 34 & REPOSITION STN 7&8.	GA
07/07/21	E	REPOSITIONED PILLARS FOR LOTS 1&2 @ STREET LIGHTS ST 11, 12, 14	GA
17/06/21	D	REPOSITIONED STN 4,11,12,14. ADD 33.	GA
14/05/21	C	SITE LABELS ADDED	GA
01/04/21	B	FOR CONSTRUCTION	GA

Client: PARKHURST HOLDINGS PTY LTD.

WRN: 1639963

ANDERSON CONSULTING ENGINEERS
43 Denison Street, Rockhampton, Q. 4700
P.O. Box 27, Rockhampton, Q. 4700
Phone: (07) 4927 2077
Facsimile: (07) 4927 2882
ACN 112 865 529 ABN 98 112 865 529

Project: **LILY PLACE ESTATE**

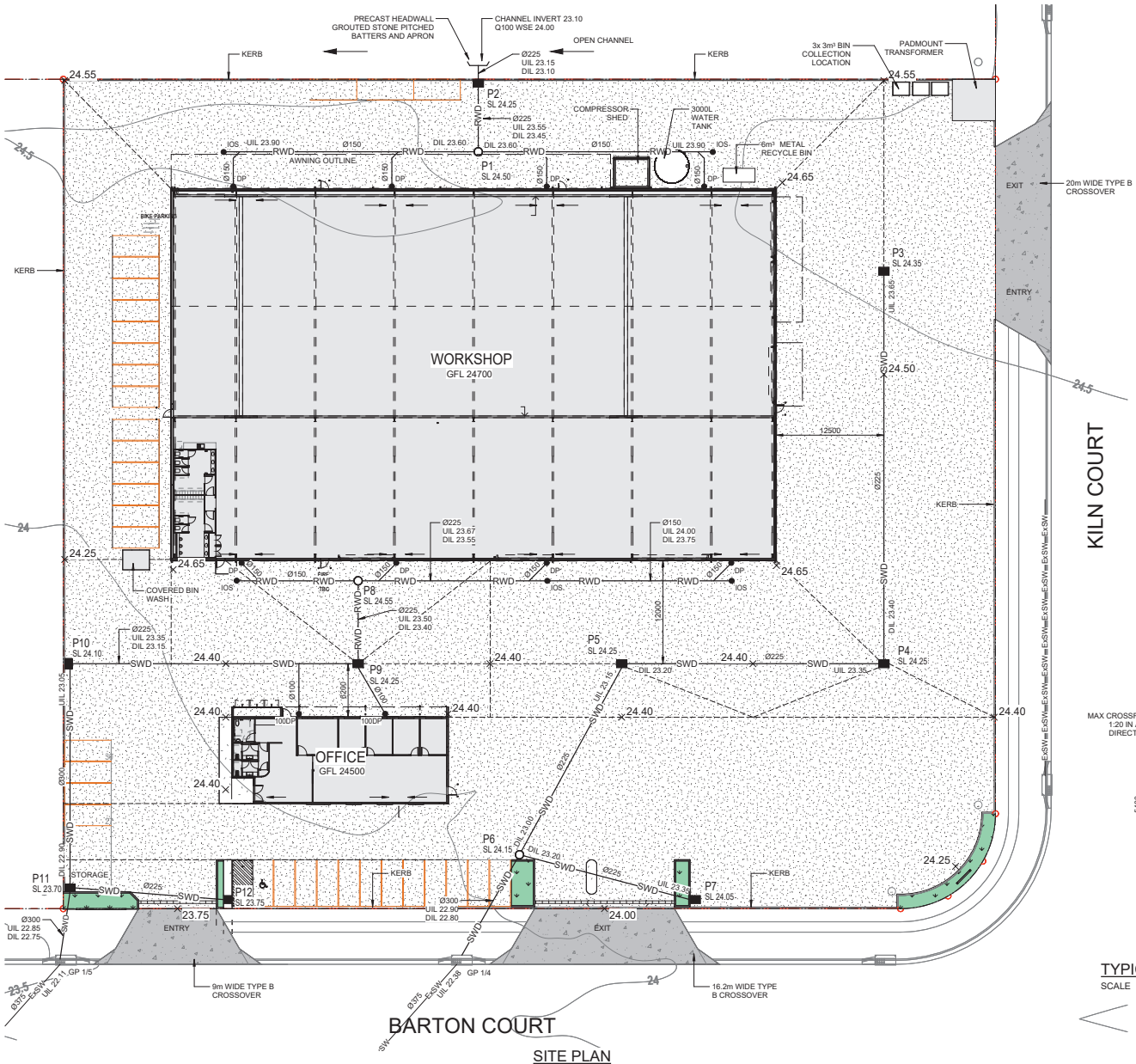
777 YAAMBA RD, PARKHURST.
COMMERCIAL/INDUSTRIAL SUBDIVISION.

Title: ELECTRICAL SERVICES
SCHEDULES.
NOTES.

Drawing No: **20293-E003** Rev: **H**

Scale:	AS NOTED	Designed:	JPM
Drawn:	CG	Certified:	GA
Date:	DECEMBER 2020	No: 3 Of: 3	A1

Appendix C – Civil Site Plan



SITE PLAN
SCALE 1 : 250

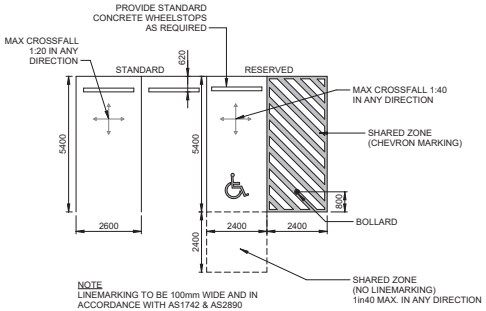
GENERAL
CONTRACTOR TO CONFIRM WITH ALL SERVICE AUTHORITIES THE POSITION OF ALL SERVICE PRIOR TO COMMENCING WORK.
ALL WORKS SHALL COMPLY WITH MBRC PLANNING SCHEME POLICIES AND STANDARD DRAWINGS UNO.

ROOFWATER
EAVES GUTTERS 200x200
ALL DPs 150Ø UNLESS NOTED OTHERWISE.

STORMWATER MANAGEMENT
STORMWATER DRAINAGE UP TO 225MM DIAMETER WITHIN THE SITE TO COMPLY WITH AS3500.3.
STORMWATER DRAINAGE 300MM AND GREATER TO COMPLY WITH LOCAL AUTHORITY STANDARDS.
PIPES <= 150 DIA ON A MIN GRADE OF 1 IN 100 UNO.
MINIMUM COVER TO PIPES TO BE 450MM.
MH'S ≤ 1200 DEEP TO BE 600Ø. MH'S >1200 DEEP TO BE 900Ø.
ALL MH'S AND PITS TO BE FULL DEPTH.
GRATES AND COVERS IN TRAFFICABLE AREAS TO BE CLASS D. GRATES AND COVERS IN OTHER AREAS TO BE CLASS B.
PIPE MATERIAL TO BE CONCRETE CLASS 2, FRC CLASS 2, PE SN8 OR UPVC SN6.

FILL MANAGEMENT
EARTHWORKS TO COMPLY WITH AS 3798
TOPSOIL TO BE STRIPPED TO A DEPTH OF 150MM FROM ALL CUT & FILL AREAS
ALL FILL MATERIAL IS TO BE OBTAINED FROM ON SITE CUT OR OFF-SITE CONTAMINATION FREE SOURCES.
WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN AREAS TO BE FILLED OR AT SUB-GRADE LEVEL, UNSUITABLE MATERIAL SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. EXISTING GROUND TO BE COMPACTED TO 95 % RDD STANDARD AFTER STRIPPING
IMPORTED FILL MATERIAL SHALL BE CLEAN SOIL OR WEATHERED ROCK FREE FROM UNSUITABLE MATERIAL AS DEFINED BY CLAUSE 4.2 OF AS 3798 AND SHALL NOT COMPRISE OF SOILS REQUIRING SPECIAL CONSIDERATION AS DETAILED IN CLAUSE 4.2 OF AS 3798. FILL MATERIAL SHALL HAVE A REMOULDED SHRINK/SWELL INDEX OF LESS THAN 1.5, OR IN THE CASE OF A GRANULAR MATERIAL A LIQUID LIMIT OF LESS THAN 40%.
ALL FILL TO BE COMPACTED TO 98% RDD STANDARD ROAD SUBGRADES TO BE COMPACTED TO 100% RDD STANDARD

LOCALITY PLAN
SCALE 1:2500



NOTE
LINEMARKING TO BE 100mm WIDE AND IN ACCORDANCE WITH AS1742 & AS2890

TYPICAL CAR PARK LINEMARKING DETAIL
SCALE 1 : 100

1 : 100 (A1)
1 : 200 (A3)
1 : 250 (A1)
1 : 500 (A3)

RP DESCRIPTION	LOT 3 on SP326319
LOCAL AUTHORITY	ROCKHAMPTON REGION COUNCIL
COUNCIL FILE	
SITE AREA	10345 m²

LEGEND

- SITE BOUNDARY
- PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- EXISTING CONTOURS
- EXISTING STORMWATER
- EXISTING SEWERAGE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING ELECTRICITY OVERHEAD
- PROPOSED STORMWATER
- PROPOSED ROOFWATER
- RETAINING WALL
- 160 CONCRETE PAVEMENT
- 100 CONCRETE FOOTPATH
- DRIVEWAY CROSSOVER
- LANDSCAPING AREA

SYMBOLS LEGEND

- BENCH MARK
- EXISTING LIGHT POLE
- EXISTING ELECTRICAL PILLAR
- EXISTING TEL PIT
- EXISTING POWER POLE
- PROPOSED DOWNPIPE
- PROPOSED SURFACE LEVEL
- EXISTING SURFACE LEVEL
- EXISTING STORMWATER MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING FIRE HYDRANT

STORMWATER PIT SCHEDULE

PIT ID	DESCRIPTION	SURFACE LEVEL
P1	900Ø PIT	SL 24.50
P2	FIP -TYPE 2 - 900x600	SL 24.25
P3	FIP -TYPE 2 - 900x600	SL 24.35
P4	FIP -TYPE 2 - 900x600	SL 24.25
P5	FIP -TYPE 2 - 900x600	SL 24.25
P6	900Ø PIT	SL 24.15
P7	FIP -TYPE 2 - 900x600	SL 24.05
P8	900Ø PIT	SL 24.55
P9	FIP -TYPE 2 - 900x600	SL 24.25
P10	FIP -TYPE 2 - 900x600	SL 24.10
P11	FIP -TYPE 2 - 900x600	SL 23.70
P12	FIP -TYPE 2 - 900x600	SL 23.75

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	APPROVED
C	ISSUED FOR DA	11/10/2022	BA	HR
B	50% ISSUE	23/09/2022	BA	HR
A	PRELIMINARY ISSUE	24/08/2022	BA	JF

ARCHITECT: REDDOG ARCHITECTS
CLIENT: TPM BUILDERS

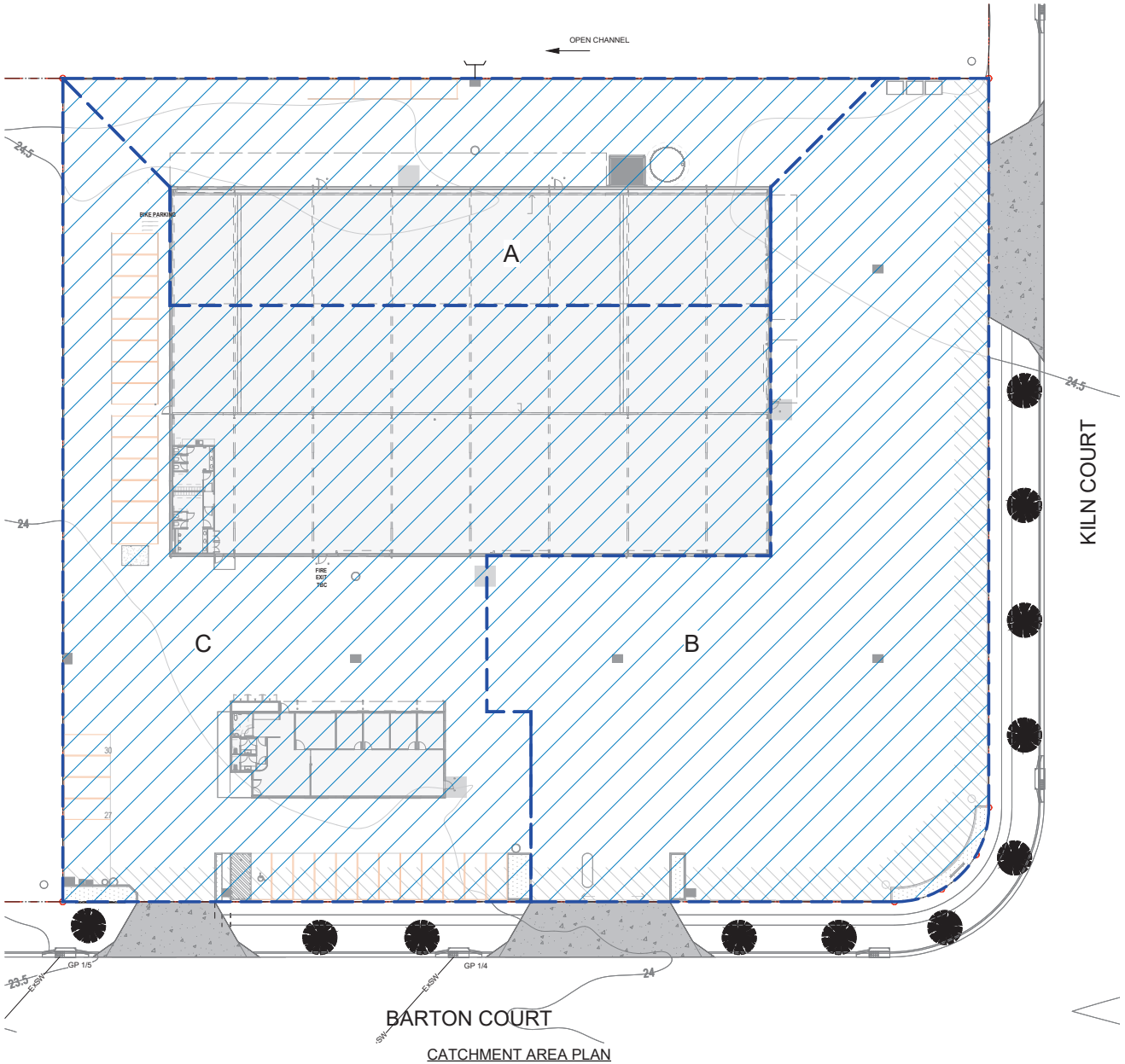
Inertia
ABN 82 115 498 023
E-mail: info@inertiaeng.com.au
2a 139 Connaught Drive, Milton, QLD 4064
Phone: 3857 7868
Fax: 3262 7359

PROJECT ENGINEER: JF
PROJECT DRAFTER: BA
PROJECT DATE: JUL 2022

PROJECT: INDUSTRIAL DEVELOPMENT
10 BARTON COURT, PARKHURST
ROCKHAMPTON QLD 4702

DRAWING TITLE: CIVIL SITE PLAN
JOB No. 10371
DRAWING No. C300
REVISION. C
SCALE: AS NOTED - A1 ORIGINAL SIZE
CERTIFIED: H. REID
RPEQ No: 2098

Document Set ID: 39376204
Version: 1, Version Date: 26/10/2022



CATCHMENT AREA PLAN

SCALE 1 : 250

HYDRAULIC TABLE									
CATCHMENT	AREA (Ha)	C_{20}	$t_{c\ min}$	I 2mm/hr	Q_{20} m³/s	C_{100}	$t_{c\ min}$	I 100mm/hr	Q_{100} m³/s
A	0.201 Ha	0.76	6	137	0.058	1.0	6	291	0.162
B	0.355 Ha	0.76	6	137	0.103	1.0	6	291	0.287
C	0.477 Ha	0.76	6	137	0.138	1.0	6	291	0.386

RP DESCRIPTION	LOT 3 on SP326319
LOCAL AUTHORITY	ROCKHAMPTON REGION COUNCIL
COUNCIL FILE	
SITE AREA	10345 m²

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

0 2 4 6 8 10 12

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	APPROVED
C	ISSUED FOR DA	11/10/2022	BA	HR
B	50% ISSUE	23/09/2022	BA	HR
A	PRELIMINARY ISSUE	24/08/2022	BA	JF

ARCHITECT: REDDOG ARCHITECTS

CLIENT: TPM BUILDERS

Inertia
ABN 82 115 498 023
E-mail: info@inertiaeng.com.au
2a 139 Coronation Drive, Milton, QLD 4064
Phone: 3857 7866
Fax: 3262 7359

PROJECT ENGINEER: JF
PROJECT DRAFTER: BA
PROJECT DATE: JUL 2022

PROJECT: INDUSTRIAL DEVELOPMENT
10 BARTON COURT, PARKHURST
ROCKHAMPTON QLD 4702

DRAWING TITLE: CATCHMENT AREA PLAN

SCALE: AS NOTED - A1 ORIGINAL SIZE

JOB No. 10371
DRAWING No. C301
REVISION. C
CERTIFIED: H. REID
RPEQ No: 2098

Appendix D – Flood Mapping

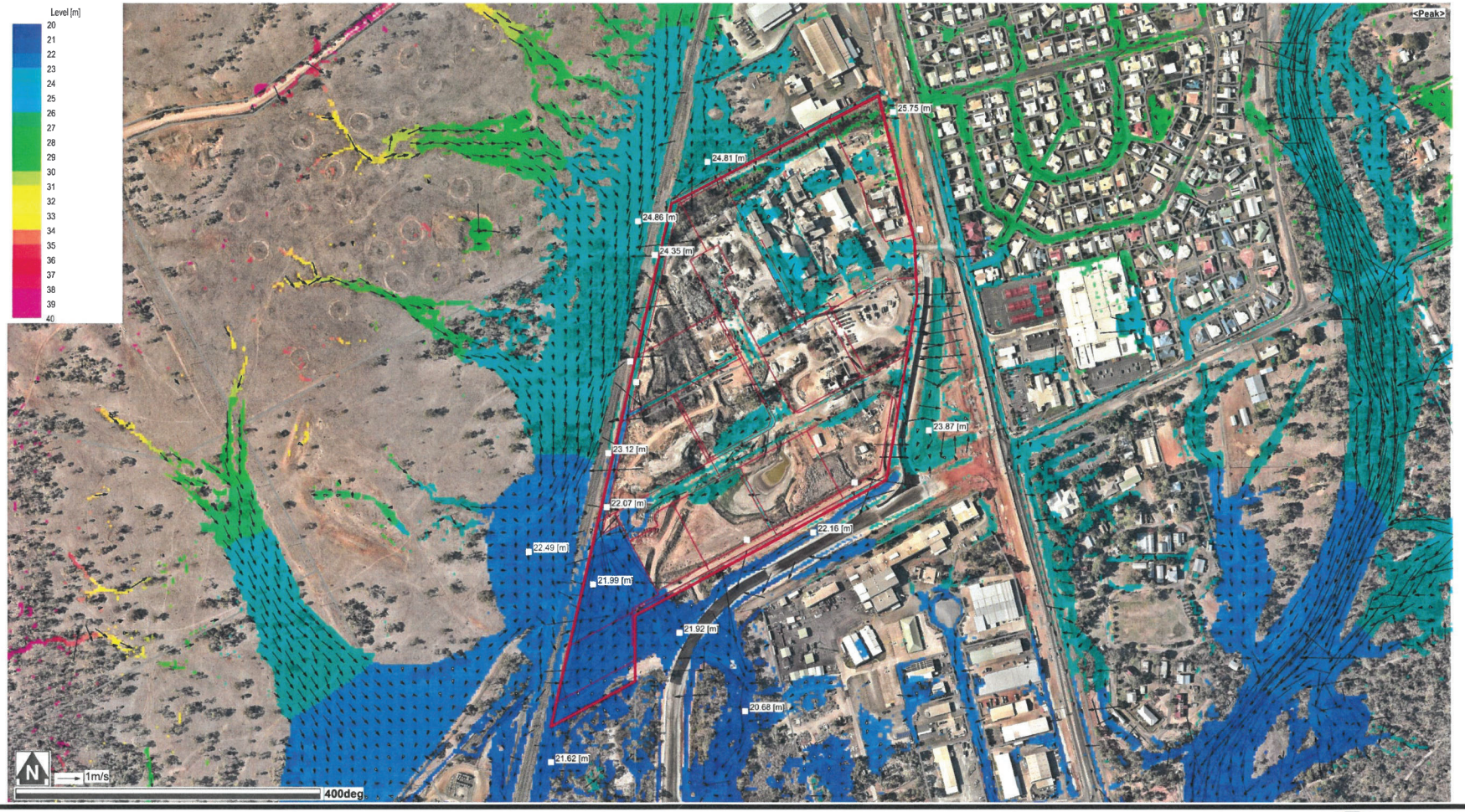


Figure F400/B
1% AEP Post-Development Flood Water Level

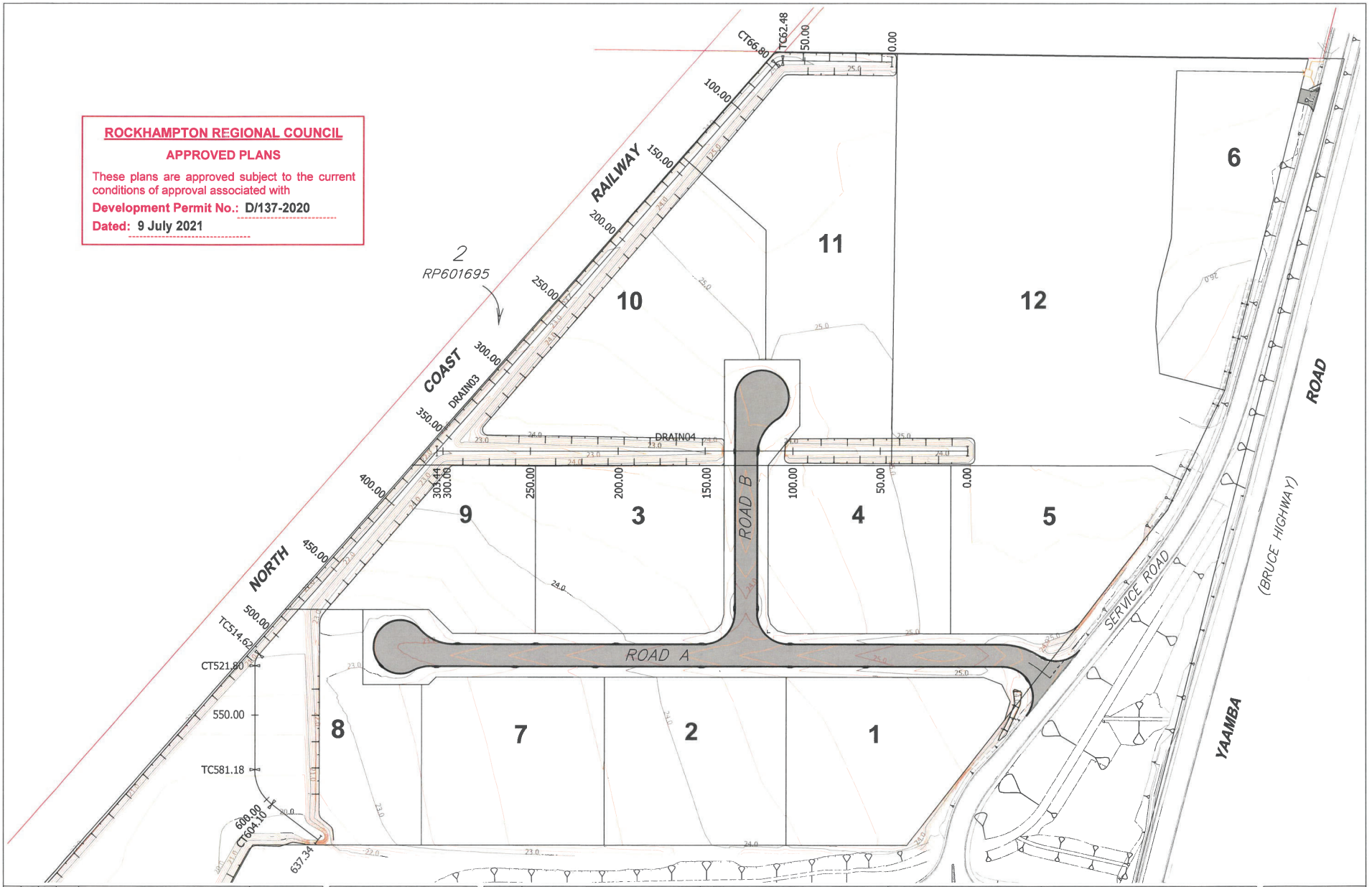
ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021



ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
B	DWC	JDD	02/21	RRC RFI RESPONSE
C	DWC	JDD	05/21	RRC RFI RESPONSE
D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD

CO-ORD.: GDA94

DESIGN REVIEW

DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES
CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0404 110 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
DRAINS CHAINAGES PLAN

PLAN NUMBER: SCE-115-022

REVISION: E

1 : 1000 HORT.
0 12.5 25
1 : 100 VERT.
0 1.25 2.5

DO NOT SCALE - ASK IF IN DOUBT

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021

DATUM RL 21.600

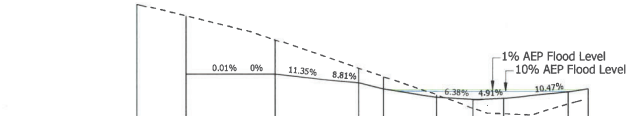
FINISHED SURFACE LEVEL		25.295	25.295	24.708	23.668	23.693	24.247
EXISTING SURFACE LEVEL	26.144	26.399	26.734	26.207	25.304	25.065	
OFFSET	-14.000	-12.000	-8.631	-6.048	-2.048	2.022	4.522

CH 100.000

DATUM RL 21.300

FINISHED SURFACE LEVEL		25.297	25.297	25.118	23.968	24.025	24.421
EXISTING SURFACE LEVEL	28.951	28.118	26.564	26.037	24.264	23.396	
OFFSET	-14.000	-12.000	-7.969	-6.600	-2.000	2.000	4.500

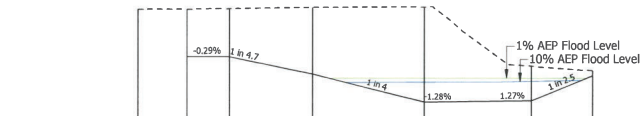
CH 50.000



DATUM RL 21.500

FINISHED SURFACE LEVEL		25.300	25.300	24.941	24.691	24.352	24.260	24.310	24.572	24.694
EXISTING SURFACE LEVEL	28.158	27.675	26.694	25.532	25.187	24.443	23.893	23.652	24.051	
OFFSET	-14.000	-12.000	-8.346	-4.907	-3.888	-1.708	-0.229	1.045	3.695	4.500

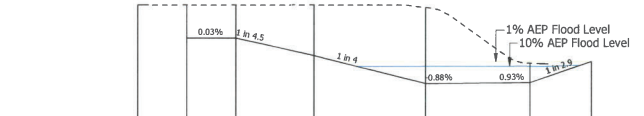
CH 0.000



DATUM RL 20.600

FINISHED SURFACE LEVEL		24.556	24.561	23.842	22.692	22.748	23.768
EXISTING SURFACE LEVEL	26.498	26.496	26.518	26.559	26.583	24.165	23.982
OFFSET	-14.000	-12.000	-10.267	-6.849	-2.249	2.131	4.631

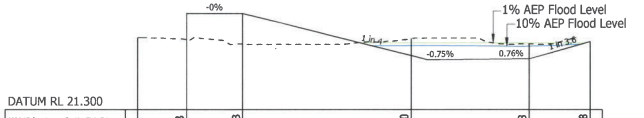
CH 250.000



DATUM RL 21.000

FINISHED SURFACE LEVEL		24.898	24.897	24.175	23.025	23.064	23.928
EXISTING SURFACE LEVEL	26.250	26.250	26.250	26.250	26.142	23.859	
OFFSET	-14.000	-12.000	-9.987	-6.782	-2.182	2.094	4.594

CH 200.000



DATUM RL 21.300

FINISHED SURFACE LEVEL		25.243	25.243	23.510	23.378	24.088	
EXISTING SURFACE LEVEL	24.250	24.175	24.000	24.211	24.000		
OFFSET	-14.000	-12.000	-9.707	-2.770	2.058	4.558	

CH 150.000

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
B	DWC	JDD	02/21	RRC RFI RESPONSE
C	DWC	JDD	03/21	RRC RFI RESPONSE
D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD

CO-ORD.: GDA94

DESIGN REVIEW

DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES
EMAIL: david@sirisengineers.com.au
PHONE: 07 4930 2877 (office), 0404 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703
ABN 34 481 028 699

LILY PLACE ESTATE
SW DRAIN 03 CROSS SECTIONS PLAN
SHEET 1

PLAN NUMBER: SCE-115-026

REVISION: E

0 1.0 4.0m
1:200

DO NOT SCALE - ASK IF IN DOUBT

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021

DATUM RL 19.700							
FINISHED SURFACE LEVEL		23.935	23.936	23.194	21.744	21.766	22.898
EXISTING SURFACE LEVEL	23.115	23.092	23.094	23.089	23.034	22.999	23.059
OFFSET	-14.000	-12.000	-11.798	-8.061	-2.261	0.792	4.740

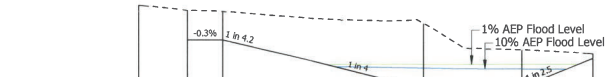
CH 400.000

DATUM RL 20.000										
FINISHED SURFACE LEVEL		22.067		22.080	22.293	22.421	22.420	22.293	22.064	22.093	23.258
EXISTING SURFACE LEVEL	26.233	25.742		25.179	24.880	24.820	24.829	24.837	24.839	23.971	23.697
OFFSET	-14.000	-12.000		-9.645	-8.446	-7.233	-6.095	-4.641	-3.231	1.263	4.704

CH 350.000

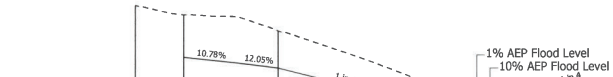
DATUM RL 19.000							
FINISHED SURFACE LEVEL		21.034	21.040	21.048	21.112	21.982	22.386
EXISTING SURFACE LEVEL	26.965	26.534	26.135	25.625	21.982	21.920	21.916
OFFSET	-14.000	-12.000	-11.190	-10.153	-0.149	3.228	4.813

CH 500.000



DATUM RL 20.300						
FINISHED SURFACE LEVEL		24.357	24.361	22.360	22.420	23.608
EXISTING SURFACE LEVEL	25.785	25.573	25.526	25.026	23.946	23.794
OFFSET	-14.000	-12.000	-10.547	-2.316	1.733	4.667

CH 300.000



DATUM RL 19.400						
FINISHED SURFACE LEVEL		23.403	22.967	21.469	21.439	22.539
EXISTING SURFACE LEVEL	25.525	25.148	24.487	22.380	22.311	22.197
OFFSET	-14.000	-12.000	-8.131	-2.151	0.321	4.776

CH 450.000

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
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E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD

CO-ORD.: GDA94

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DRAFTING REVIEW

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES
CONSULTING ENGINEERS
EMAIL: dave@sirisengineers.com.au
PHONE: 07 4930 2877 (office), 0404 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703
ABN: 34 481 028 699

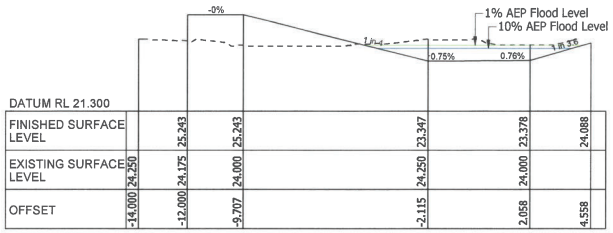
LILY PLACE ESTATE
SW DRAIN 03 CROSS SECTIONS PLAN
SHEET 2

PLAN NUMBER: SCE-115-027

REVISION: E

0 1.0 4.0m
1:200

DO NOT SCALE - ASK IF IN DOUBT



DATUM RL 21.300							
FINISHED SURFACE LEVEL		25.243	25.243		23.347	23.378	24.088
EXISTING SURFACE LEVEL	24.250	24.175	24.000		24.250	24.000	
OFFSET	-14.000	-12.000	-9.707		-2.115	2.058	4.558

CH 150.000

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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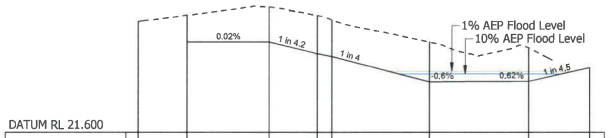
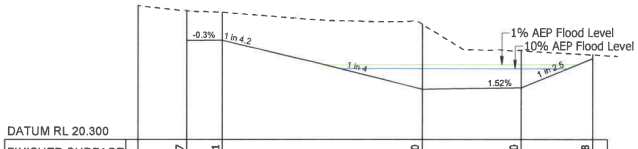
Development Permit No.: D/137-2020

Dated: 9 July 2021



DATUM RL 21.600							
FINISHED SURFACE LEVEL		25.295	25.295	24.818	24.708	23.668	23.693	24.247
EXISTING SURFACE LEVEL	26.144	26.399	26.734	26.381	26.207	25.304	25.065	
OFFSET	-14.000	-12.000	-8.631	-6.648	-6.048	-2.048	2.022	4.522

CH 100.000



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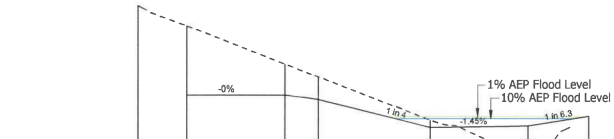
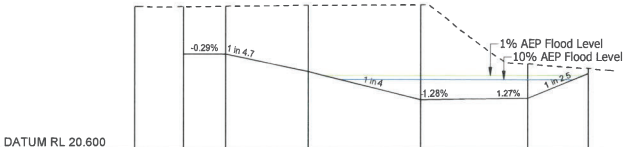
EXISTING SURFACE LEVEL	25.785	25.573	25.526		25.026	23.946	23.794
OFFSET	-14.000	-12.000	-10.547		-2.316	1.733	4.667

CH 300.000



DATUM RL 21.300							
FINISHED SURFACE LEVEL		25.297	25.297	25.118	23.968	24.025	24.421
EXISTING SURFACE LEVEL	28.951	28.118	26.564	26.037	24.264	23.396	
OFFSET	-14.000	-12.000	-7.969	-6.600	-2.000	2.000	4.500

CH 50.000



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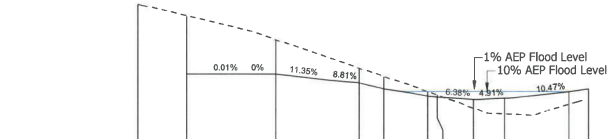
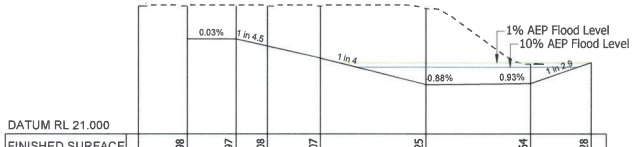
OFFSET	-14.000	-12.000	-10.267	-6.849	-2.249	2.131	4.631

CH 250.000



DATUM RL 21.500											
FINISHED SURFACE LEVEL		25.300	25.300	24.941	24.691	24.399	24.352	24.260	24.310	24.572	24.694
EXISTING SURFACE LEVEL	28.158	27.675	26.694	25.532	25.187	24.582	24.443	23.893	23.652	24.051	
OFFSET	-14.000	-12.000	-8.346	-4.907	-3.888	-2.098	-1.708	-0.229	1.045	3.695	4.500

CH 0.000



DATUM RL 21.000							
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EXISTING SURFACE LEVEL	26.250	26.250	26.250	26.250	26.250	26.142	23.859	
OFFSET	-14.000	-12.000	-9.987	-8.695	-6.514	-2.182	2.094	4.594

CH 200.000

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REVISION

DATUM: AHD

CO-ORD.: GDA94

DESIGN REVIEW

DRAFTING REVIEW

RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372

FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

SIRIS & ASSOCIATES
CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4939 3977 (office), 0404 139 734 (mobile)
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LILY PLACE ESTATE
SW DRAIN 04 CROSS SECTIONS PLAN
SHEET 1

PLAN NUMBER: SCE-115-028

REVISION: E

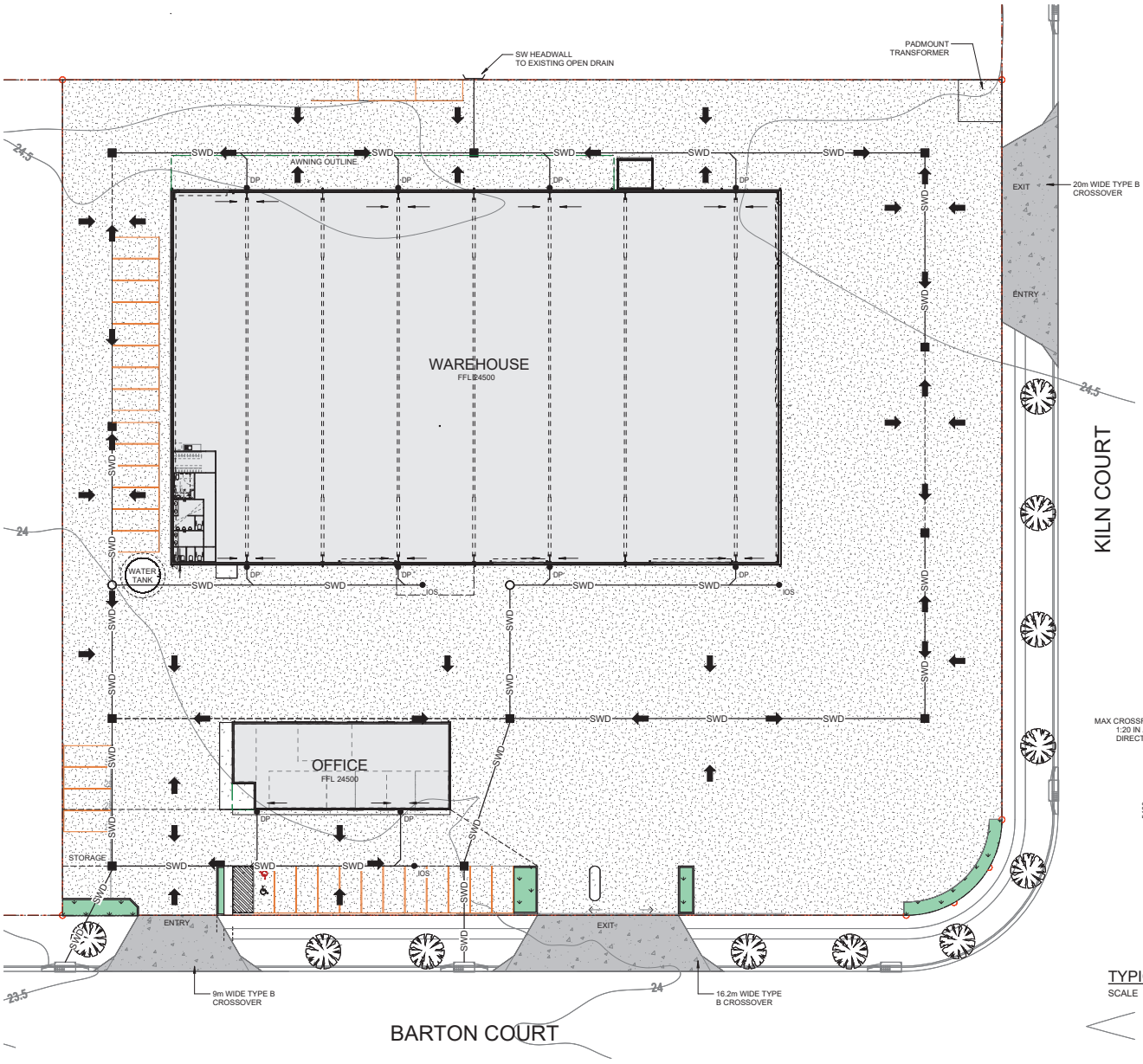
0 1.0 4.0m
1:200

DO NOT SCALE - ASK IF IN DOUBT

INERTIA ENGINEERING PTY LTD

Level 2 139 Coronation Drive, MILTON QLD 4064

P I 07 3857 7868 F I 07 3262 7359 E I info@inertiaeng.com.au



GENERAL

CONTRACTOR TO CONFIRM WITH ALL SERVICE AUTHORITIES THE POSITION OF ALL SERVICE PRIOR TO COMMENCING WORK.
ALL WORKS SHALL COMPLY WITH MBRC PLANNING SCHEME POLICIES AND STANDARD DRAWINGS UNO.

ROOFWATER

EAVES GUTTERS 200x200
ALL DPs 150Ø UNLESS NOTED OTHERWISE.

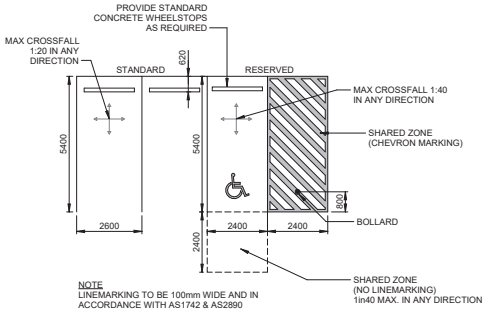
STORMWATER MANAGEMENT

STORMWATER DRAINAGE UP TO 225MM DIAMETER WITHIN THE SITE TO COMPLY WITH AS3500.3.
STORMWATER DRAINAGE 300MM AND GREATER TO COMPLY WITH LOCAL AUTHORITY STANDARDS.
PIPES <= 150 DIA ON A MIN GRADE OF 1 IN 100 UNO.
MINIMUM COVER TO PIPES TO BE 450MM.
MH'S ≤ 1200 DEEP TO BE 600Ø. MH'S >1200 DEEP TO BE 900Ø.
ALL MH'S AND PITS TO BE FULL DEPTH.
GRATES AND COVERS IN TRAFFICABLE AREAS TO BE CLASS D. GRATES AND COVERS IN OTHER AREAS TO BE CLASS B.
PIPE MATERIAL TO BE CONCRETE CLASS 2, FRC CLASS 2, PE SN8 OR UPVC SN6.

FILL MANAGEMENT

EARTHWORKS TO COMPLY WITH AS 3798.
TOPSOIL TO BE STRIPPED TO A DEPTH OF 150MM FROM ALL CUT & FILL AREAS
ALL FILL MATERIAL IS TO BE OBTAINED FROM ON SITE CUT OR OFF-SITE CONTAMINATION FREE SOURCES.
WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN AREAS TO BE FILLED OR AT SUB-GRADE LEVEL, UNSUITABLE MATERIAL SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. EXISTING GROUND TO BE COMPACTED TO 95 % RDD STANDARD AFTER STRIPPING
IMPORTED FILL MATERIAL SHALL BE CLEAN SOIL OR WEATHERED ROCK FREE FROM UNSUITABLE MATERIAL AS DEFINED BY CLAUSE 4.2 OF AS 3798 AND SHALL NOT COMPRISE OF SOILS REQUIRING SPECIAL CONSIDERATION AS DETAILED IN CLAUSE 4.2 OF AS 3798. FILL MATERIAL SHALL HAVE A REMOULDED SHRINK/SWELL INDEX OF LESS THAN 1.5, OR IN THE CASE OF A GRANULAR MATERIAL A LIQUID LIMIT OF LESS THAN 40%.
ALL FILL TO BE COMPACTED TO 98% RDD STANDARD ROAD SUBGRADES TO BE COMPACTED TO 100% RDD STANDARD

LOCALITY PLAN
SCALE 1:2500



NOTE
LINEMARKING TO BE 100mm WIDE AND IN ACCORDANCE WITH AS1742 & AS2890

TYPICAL CAR PARK LINEMARKING DETAIL
SCALE 1 : 100

RP DESCRIPTION	LOT 3 on SP326319
LOCAL AUTHORITY	ROCKHAMPTON REGION COUNCIL
COUNCIL FILE	
SITE AREA	10345 m²

LEGEND

- SITE BOUNDARY
- PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- EXISTING CONTOURS
- ExSW — EXISTING STORMWATER
- ExS — EXISTING SEWERAGE
- ExT — EXISTING TELSTRA
- ExW — EXISTING WATER
- ExE — EXISTING ELECTRICITY
- ExOH — EXISTING ELECTRICITY OVERHEAD
- SWD — PROPOSED STORMWATER
- RWD — PROPOSED ROOFWATER
- RETAINING WALL
- 160 CONCRETE PAVEMENT
- 100 CONCRETE FOOTPATH
- DRIVEWAY CROSSOVER
- LANDSCAPING AREA

SYMBOLS LEGEND

- BM — BENCH MARK
- LP — EXISTING LIGHT POLE
- EXISTING ELECTRICAL PILLAR
- EXISTING TEL PIT
- PP — EXISTING POWER POLE
- DP — PROPOSED DOWNPIPE
- 4.750 — PROPOSED SURFACE LEVEL
- 2.00 — EXISTING SURFACE LEVEL
- SWMH — EXISTING STORMWATER MANHOLE
- SMH — EXISTING SEWER MANHOLE
- FH — EXISTING FIRE HYDRANT

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS
These plans are approved subject to the current conditions of approval associated with
Development Permit No.: D/114-2022
Dated: 5 December 2022

1 : 100 (A1)
1 : 200 (A3)
1 : 250 (A1)
1 : 500 (A3)

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	APPROVED
A.	PRELIMINARY ISSUE	24/08/2022	BA	JF

ARCHITECT: REDDOG ARCHITECTS
CLIENT: TPM BUILDERS

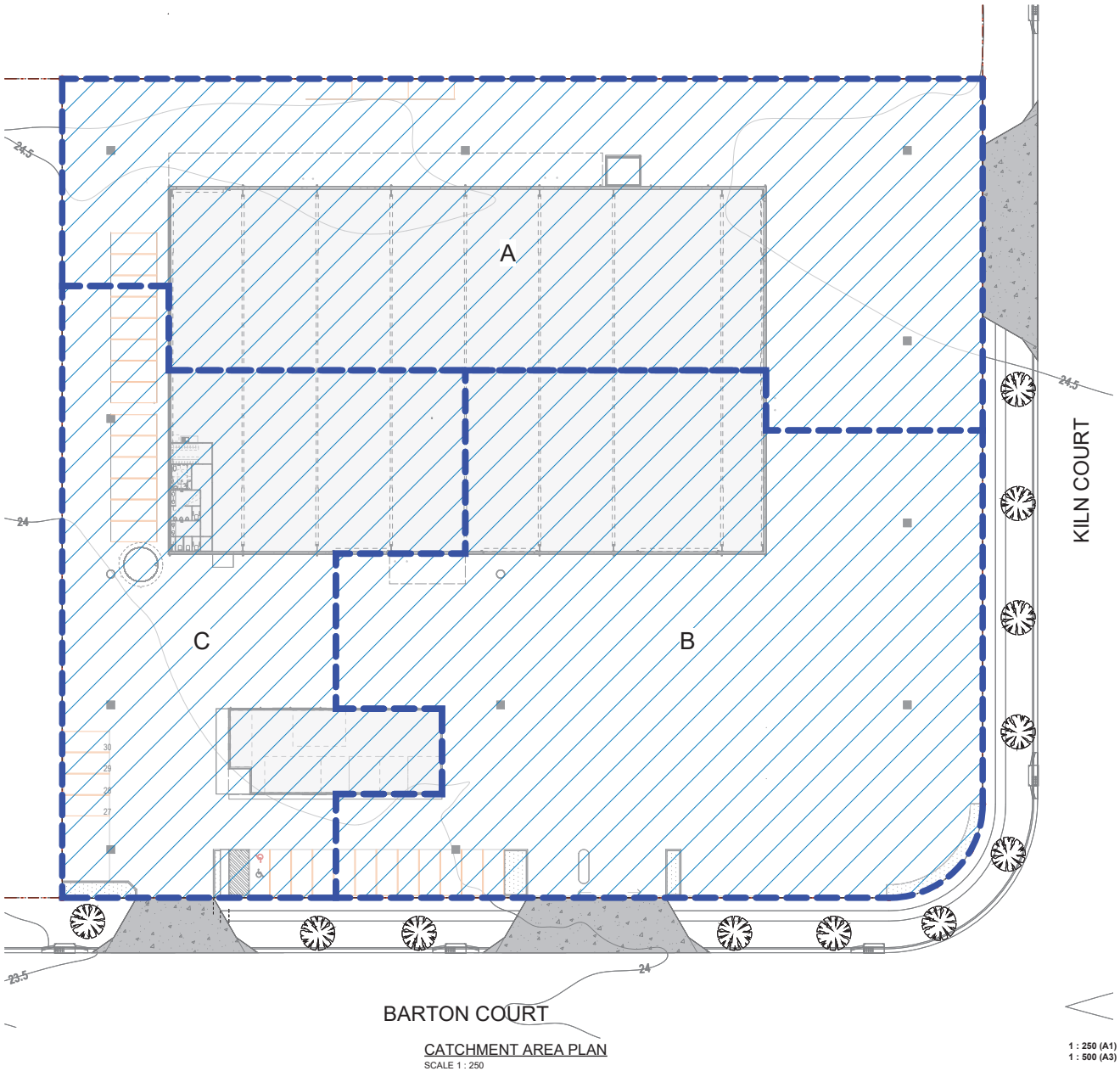
Inertia
ABN 82 115 498 023
E-mail: info@inertiaeng.com.au
2a 139 Coronation Drive, Milton, QLD 4064
Phone: 3857 7866
Fax: 3262 7359

PROJECT ENGINEER: JF
PROJECT DRAFTER: BA
PROJECT DATE: JUL 2022

PROJECT: INDUSTRIAL DEVELOPMENT
BARTON COURT, PARKHURST
ROCKHAMPTON QLD 4702

DRAWING TITLE: CIVIL SITE PLAN
SCALE: AS NOTED - A1 ORIGINAL SIZE
CERTIFIED: H. REID
RPEQ No: 2098

JOB No. 10371
DRAWING No. C300
REVISION. A



CATCHMENT AREA PLAN
SCALE 1 : 250

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

0 2 4 6 8 10 12

RP DESCRIPTION	LOT 3 on SP326319
LOCAL AUTHORITY	ROCKHAMPTON REGION COUNCIL
COUNCIL FILE	
SITE AREA	10345 m²

CATCHMENT SCHEDULE	
A	3,750m²
B	4035m²
C	2560m²

ROCKHAMPTON REGIONAL COUNCIL
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Phone: 3857 7866
Fax: 3262 7359

PROJECT ENGINEER: JF
PROJECT DRAFTER: BA
PROJECT DATE: JUL 2022

PROJECT: INDUSTRIAL DEVELOPMENT
BARTON COURT, PARKHURST
ROCKHAMPTON QLD 4702

DRAWING TITLE: CATCHMENT AREA PLAN

JOB No. 10371
DRAWING No. C301
REVISION. A
SCALE: AS NOTED - A1 ORIGINAL SIZE
CERTIFIED: H. REID
RPEQ No: 2098

Waste Management Plan

10 Barton Court, Parkhurst
Rockhampton QLD 4702

Prepared for: TPM Builders

Job Reference Number – 10371

Date: 19 October 2022

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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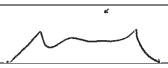
Development Permit No.: D/114-2022

Dated: 5 December 2022

Document Status

Rev No	Author	Reviewer	Approved for Issue			
			Name	Signature	RPEQ	Date
A	Hilton Reid	Joshua Falco	Hilton Reid		2098	19/10/2022

Distribution

Rev No	Date	Issue	Issued To	Format
A	19/10/2022	TPM Builders	Anthony Collins	PDF
A	19/10/2022	Urbis	Rachael Greene	PDF

TABLE OF CONTENTS

1 General

The site is part of Stage 3 of the Lily Place Estate, located at the corner of Barton Court and Kiln Court, RPD Lot 3 on SP326319. The Site Locality Plan is contained in Appendix A.

2 Waste Management Requirements

Waste Management is required to comply with Rockhampton Planning Scheme Planning Scheme Policy SC6.20.

Waste generated by the operations comprises of the following

- Domestic waste generated by the Office
- General Waste generated in the factory
- Scrap Steel Waste generated in the factory

3 Waste Management system

Waste generated by the Office will be placed into 240L standard domestic general and recycle bins. These will be collected on the kerbside by RRC on a weekly basis.

Within or adjacent to the factory 3-3m3 Front Load bins will be provided to contain general waste. These bins will be moved by forklift to the bin collection area located in the northeast corner of the site as shown on the Site Plan contained in Appendix B. Collection of these bins will be carried out weekly by a commercial waste collection company.

Scrap metal generated by the factory operations will be stored in a 6m skip located where shown on the Site Plan. This skip will be emptied weekly by a commercial metal recycling company.

In accordance with PSP SC6.20 Section SC6.20.6 an area will be provided for the washing of 3m3 General Waste bins as required. The location of the Bin Wash area is shown on the Site Plan. A hose cock with an RPZD backflow prevention device will be provided at the Bin Wash. Wastewater will be collected by a slab graded to a waste outlet directed to sewer. To prevent rainwater entering the sewer system the bin wash area will be provided with a roof with a 900mm overhang beyond the line of the dished pavement in the Bin Wash, with perimeter pavement graded away from the Bin Wash.

Appendices

Appendix A – Locality Plan

JRT CIVIL
PARKHURST HOLDINGS PTY LTD
LILY PLACE ESTATE
777 YAAMBA ROAD
PARKHURST, QLD. 4702

DEVELOPMENT SITE

OPERATIONAL WORKS PLANS

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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Dated: 9 July 2021

Harsha R. Weerasinghe
RPEQ 8372

PLAN REGISTER

Plan No.	Plan Title
SCE-115/001	Cover Sheet
SCE-115/002	Staging Plan
SCE-115/003	Road Sections
SCE-115/004	Sewer Reticulation Plan - Stage 1 - Sheet 1
SCE-115/005	Sewer Reticulation Plan - Stage 1 - Sheet 2
SCE-115/006	Sewer Reticulation Plan - Stage 2
SCE-115/007	Sewer Reticulation Plan - Stage 4
SCE-115/008	Sewer Reticulation Plan - Stage 5
SCE-115/009	Sewer Reticulation Plan - Stage 6
SCE-115/010	Sewer Long Section Plan - Sheet 1
SCE-115/011	Sewer Long Section Plan - Sheet 2
SCE-115/012	Sewer Long Section Plan - Sheet 3
SCE-115/013	Stormwater Reticulation Plan - Stage 2
SCE-115/014	Stormwater Reticulation Plan - Stage 4
SCE-115/015	Stormwater Reticulation Plan - Stage 5
SCE-115/016	Stormwater Reticulation Plan - Stage 6
SCE-115/017	Stormwater Catchment Plan
SCE-115/018	Stormwater Long Sections Plan - Sheet 1
SCE-115/019	Stormwater Long Sections Plan - Sheet 2
SCE-115/020	Stormwater Calculation Sheet - Major & Minor Rainfall Events
SCE-115/021	Stormwater Basin Long Sections & Culvert Cross Section Plan
SCE-115/022	Stormwater Chamber Details Plan
SCE-115/023	Stormwater Drain Chainages Plan
SCE-115/024	Stormwater Drain Long Section Plan - Sheet 1
SCE-115/025	Stormwater Drain Long Section Plan - Sheet 2
SCE-115/026	Stormwater Drain Cross Sections Plan - Sheet 1
SCE-115/027	Stormwater Drain Cross Sections Plan - Sheet 2
SCE-115/028	Stormwater Drain Cross Sections Plan - Sheet 3
SCE-115/029	Stormwater Chamber Details Plan
SCE-115/030	Headwall Details Plan
SCE-115/031	Water & Electrical Reticulation Plan - Stage 1
SCE-115/032	Water & Electrical Reticulation Plan - Stage 2
SCE-115/033	Water & Electrical Reticulation Plan - Stage 3
SCE-115/034	Water & Electrical Reticulation Plan - Stage 4
SCE-115/035	Water & Electrical Reticulation Plan - Stage 6
SCE-115/036	Roadworks General Details
SCE-115/037	Control Line Setout Details - Stage 2
SCE-115/038	Control Line Setout Details - Stage 4
SCE-115/039	Control Line Setout Details - Stage 5
SCE-115/040	Control Line Setout Details - Stage 6
SCE-115/041	Roadworks Plan - Stage 2
SCE-115/042	Roadworks Plan - Stage 4
SCE-115/043	Roadworks Plan - Stage 5
SCE-115/044	Roadworks Plan - Stage 6
SCE-115/045	Intersection & Vehicle Turn Paths Plan
SCE-115/046	Cul-De-Sac & Intersection Setout Details
SCE-115/047	Road A Long Section Plan - Sheet 1
SCE-115/048	Road A Long Section Plan - Sheet 2
SCE-115/049	Road B Long Section Plan - Sheet 1
SCE-115/050	Road A Cross Sections Plan - Sheet 1
SCE-115/051	Road A Cross Sections Plan - Sheet 2
SCE-115/052	Road A Cross Sections Plan - Sheet 3
SCE-115/053	Road A Cross Sections Plan - Sheet 4
SCE-115/054	Road B Cross Sections Plan
SCE-115/055	Erosion & Sediment Control Notes Sheet
SCE-115/056	Erosion Control Devices Details Plan
SCE-115/057	Erosion & Sediment Control Plan - Stage 1
SCE-115/058	Erosion & Sediment Control Plan - Stage 2
SCE-115/059	Erosion & Sediment Control Plan - Stage 3
SCE-115/060	Erosion & Sediment Control Plan - Stage 4
SCE-115/061	Erosion & Sediment Control Plan - Stage 5
SCE-115/062	Erosion & Sediment Control Plan - Stage 6

SIRIS & ASSOCIATES
CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

PLAN NUMBER: SCE-115-001 (E)

SEWERAGE LEGEND

- Existing Roadway
- New Asphalt Roadway — Refer Pavement Details
- Existing Sewer Main and Manhole
- Existing Sewer House Connection
- New Sewer Main and Manhole (Manhole No. and Sewer Line No.)
- New Sewer Lot Serviceability check
- New Sewer Rising Main (Refer details and CMDG Std Dwgs)
- New Sewer Easement (Refer Surveyors Plans)
- Top of Batter
- Toe of Batter
- Finished Surface Contours
- Zone outside property service extents Alternative sewerage solution required in this zone
- Stage 1 - Lot 6

SEWERAGE NOTES

1. House connections shall be 100 dia. and terminate at the inlet end of the inspection pipe. The end shall be sealed with plug and clip and the invert level of the bend shall be as directed by the superintendent.
2. Alignment of sewer main in private property shall be 1.5m from the front and rear property boundary, 1.0m from the side property boundary and 2.0m from the rear boundary where inter-allotment drainage run parallel unless noted otherwise.
3. All sewers shall be 150 dia. uPVC class SN8 RRJ unless otherwise noted.
4. All sewer manholes to be 1050mm diameter, unless specified otherwise on sewer longitudinal sections.
5. Manhole lids to be constructed to follow slope of batters if possible.
6. Class D concrete lids are required for all manholes unless specified otherwise on the sewer longitudinal sections.
7. For manhole lid details, refer IPWEAQ standard drawings.
8. For manhole lid details for access chambers located within park reserve or below Q10 flood event, refer local authority standard drawings.
9. All sewerage house connections greater than 2.0m deep shall be provided with heavy-duty reinforced fibreglass junctions.
10. All chambers are to have precast fibreglass bases and are to be constructed and installed as per the manufacturer's specifications.
11. All proposed sewerage access chambers located within a park or reserve, or below Q10 flood event, must be provided with bolt down lids.

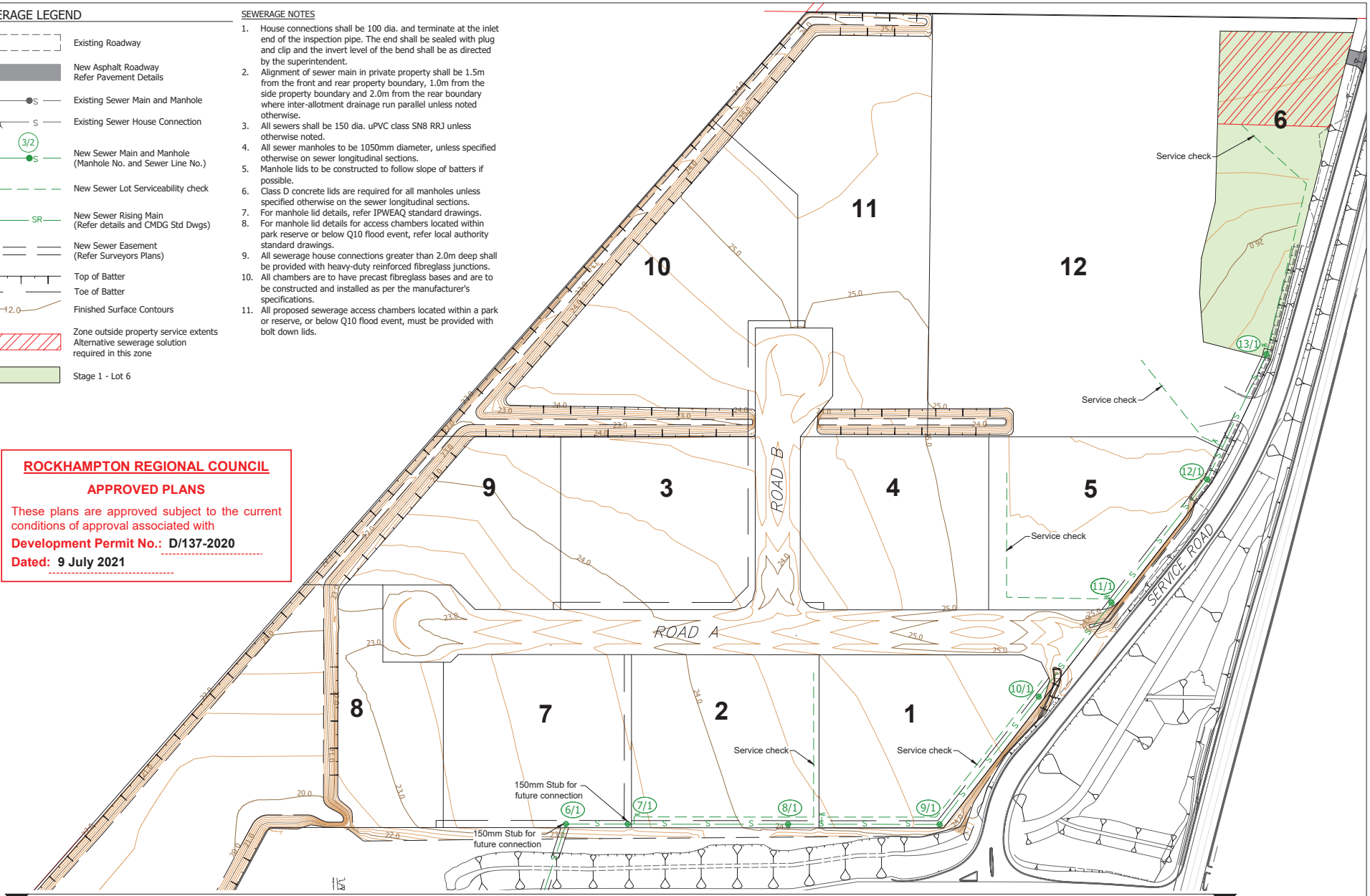
ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/137-2020

Dated: 9 July 2021



JOINS PLAN SCE-115-005

ISSUE	DESIGN	DRAWN	DATE	REVISION DETAILS
A	DWC	JDD	12/20	CIVIL OPW APPLICATION
B	DWC	JDD	02/21	RRC RFI RESPONSE
C	DWC	JDD	05/21	RRC RFI RESPONSE
D	DWC	JDD	06/21	REVISED DRAIN DESIGN
E	DWC	JDD	06/21	REVISED DRAIN DESIGN

DATUM: AHD
CO-ORD.: GDA94

DESIGN REVIEW
DRAFTING REVIEW
RPEQ CERTIFICATION: Harsha Weerasinghe RPEQ 8372
FOR & ON BEHALF OF SIRIS & ASSOCIATES CONSULTING ENGINEERS

SURVEYOR: Capricorn Survey Group
CIVIL DESIGNER: Siris Consulting Engineers
LANDSCAPE DESIGNER: Contour Consulting

CLIENT DETAILS: PARKHURST HOLDINGS PTY LTD

DEVELOPMENT DETAILS: LILY PLACE ESTATE, 777 YAAMBA ROAD, PARKHURST, QLD. 4702

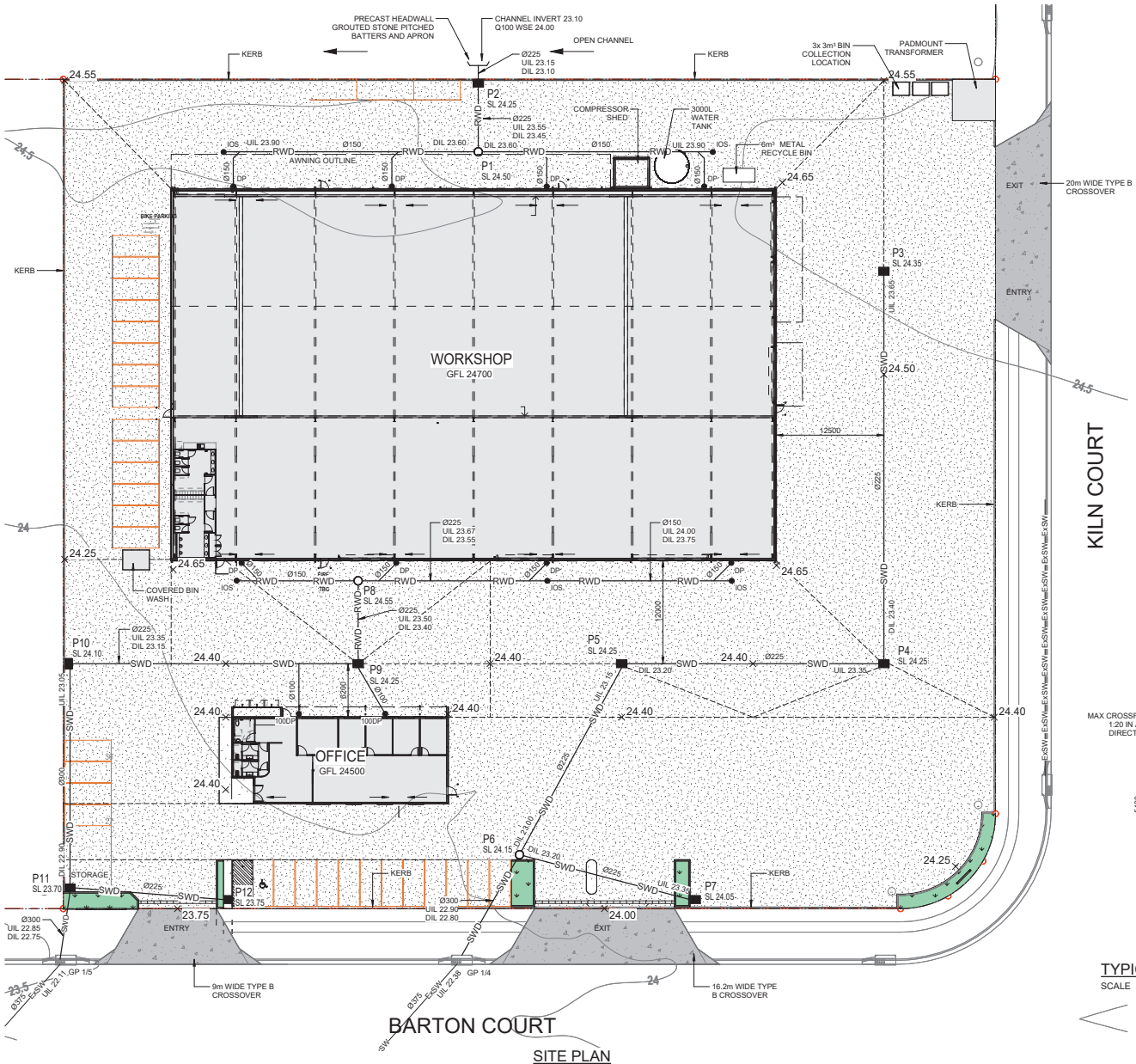
SIRIS & ASSOCIATES CONSULTING ENGINEERS
EMAIL: david@sirisengineers.com.au ABN:34 481 028 699
PHONE: 07 4930 2877 (office), 0407 119 734 (mobile)
ADDRESS: Shop 3, 5-7 Normanby Street, Yeppoon, QLD, 4703

LILY PLACE ESTATE
PROPOSED SEWERAGE PLAN
STAGE 1 - SHEET 1

PLAN NUMBER: SCE-115-004
REVISION: E

0 10.0 40.0m
1:2000
DO NOT SCALE - ASK IF IN DOUBT

Appendix B – Civil Site Plan



SITE PLAN
SCALE 1 : 250

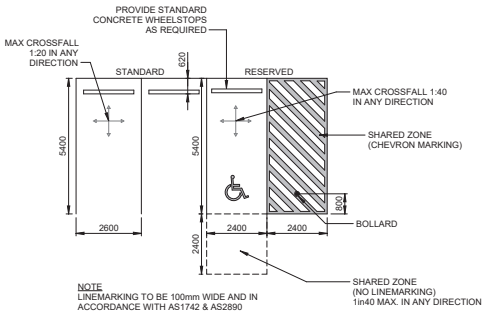
GENERAL
CONTRACTOR TO CONFIRM WITH ALL SERVICE AUTHORITIES THE POSITION OF ALL SERVICE PRIOR TO COMMENCING WORK.
ALL WORKS SHALL COMPLY WITH MBRC PLANNING SCHEME POLICIES AND STANDARD DRAWINGS UNO.

ROOFWATER
EAVES GUTTERS 200x200
ALL DPs 150Ø UNLESS NOTED OTHERWISE.

STORMWATER MANAGEMENT
STORMWATER DRAINAGE UP TO 225MM DIAMETER WITHIN THE SITE TO COMPLY WITH AS3500.3.
STORMWATER DRAINAGE 300MM AND GREATER TO COMPLY WITH LOCAL AUTHORITY STANDARDS.
PIPES <= 150 DIA ON A MIN GRADE OF 1 IN 100 UNO.
MINIMUM COVER TO PIPES TO BE 450MM.
MH'S ≤ 1200 DEEP TO BE 600Ø. MH'S >1200 DEEP TO BE 900Ø.
ALL MH'S AND PITS TO BE FULL DEPTH.
GRATES AND COVERS IN TRAFFICABLE AREAS TO BE CLASS D. GRATES AND COVERS IN OTHER AREAS TO BE CLASS B.
PIPE MATERIAL TO BE CONCRETE CLASS 2, FRC CLASS 2, PE SN8 OR UPVC SN6.

FILL MANAGEMENT
EARTHWORKS TO COMPLY WITH AS 3798
TOPSOIL TO BE STRIPPED TO A DEPTH OF 150MM FROM ALL CUT & FILL AREAS
ALL FILL MATERIAL IS TO BE OBTAINED FROM ON SITE CUT OR OFF-SITE CONTAMINATION FREE SOURCES.
WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN AREAS TO BE FILLED OR AT SUB-GRADE LEVEL, UNSUITABLE MATERIAL SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. EXISTING GROUND TO BE COMPACTED TO 95 % RDD STANDARD AFTER STRIPPING
IMPORTED FILL MATERIAL SHALL BE CLEAN SOIL OR WEATHERED ROCK FREE FROM UNSUITABLE MATERIAL AS DEFINED BY CLAUSE 4.2 OF AS 3798 AND SHALL NOT COMPRISE OF SOILS REQUIRING SPECIAL CONSIDERATION AS DETAILED IN CLAUSE 4.2 OF AS 3798. FILL MATERIAL SHALL HAVE A REMOULDED SHRINK/SWELL INDEX OF LESS THAN 1.5, OR IN THE CASE OF A GRANULAR MATERIAL A LIQUID LIMIT OF LESS THAN 40%.
ALL FILL TO BE COMPACTED TO 98% RDD STANDARD ROAD SUBGRADES TO BE COMPACTED TO 100% RDD STANDARD

LOCALITY PLAN
SCALE 1:2500



NOTE
LINEMARKING TO BE 100mm WIDE AND IN ACCORDANCE WITH AS1742 & AS2890

TYPICAL CAR PARK LINEMARKING DETAIL
SCALE 1 : 100

1 : 100 (A1)
1 : 200 (A3)
1 : 250 (A1)
1 : 500 (A3)

RP DESCRIPTION	LOT 3 on SP326319
LOCAL AUTHORITY	ROCKHAMPTON REGION COUNCIL
COUNCIL FILE	
SITE AREA	10345 m²

LEGEND

- SITE BOUNDARY
- PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- EXISTING CONTOURS
- EXISTING STORMWATER
- EXISTING SEWERAGE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING ELECTRICITY OVERHEAD
- PROPOSED STORMWATER
- PROPOSED ROOFWATER
- RETAINING WALL
- 160 CONCRETE PAVEMENT
- 100 CONCRETE FOOTPATH
- DRIVEWAY CROSSOVER
- LANDSCAPING AREA

SYMBOLS LEGEND

- BENCH MARK
- EXISTING LIGHT POLE
- EXISTING ELECTRICAL PILLAR
- EXISTING TEL PIT
- EXISTING POWER POLE
- PROPOSED DOWNPIPE
- PROPOSED SURFACE LEVEL
- EXISTING SURFACE LEVEL
- EXISTING STORMWATER MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING FIRE HYDRANT

STORMWATER PIT SCHEDULE

PIT ID	DESCRIPTION	SURFACE LEVEL
P1	900Ø PIT	SL 24.50
P2	FIP -TYPE 2 - 900x600	SL 24.25
P3	FIP -TYPE 2 - 900x600	SL 24.35
P4	FIP -TYPE 2 - 900x600	SL 24.25
P5	FIP -TYPE 2 - 900x600	SL 24.25
P6	900Ø PIT	SL 24.15
P7	FIP -TYPE 2 - 900x600	SL 24.05
P8	900Ø PIT	SL 24.55
P9	FIP -TYPE 2 - 900x600	SL 24.25
P10	FIP -TYPE 2 - 900x600	SL 24.10
P11	FIP -TYPE 2 - 900x600	SL 23.70
P12	FIP -TYPE 2 - 900x600	SL 23.75

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	APPROVED
C	ISSUED FOR DA	11/10/2022	BA	HR
B	50% ISSUE	23/09/2022	BA	HR
A	PRELIMINARY ISSUE	24/08/2022	BA	JF

ARCHITECT: REDDOG ARCHITECTS
CLIENT: TPM BUILDERS

Inertia
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E-mail: info@inertiaeng.com.au
2a 139 Connaught Drive, Milton, QLD 4064
Phone: 3857 7868
Fax: 3262 7359

PROJECT ENGINEER: JF
PROJECT DRAFTER: BA
PROJECT DATE: JUL 2022

PROJECT: INDUSTRIAL DEVELOPMENT
10 BARTON COURT, PARKHURST
ROCKHAMPTON QLD 4702

DRAWING TITLE: CIVIL SITE PLAN
JOB No. 10371
DRAWING No. C300
REVISION. C
SCALE: AS NOTED - A1 ORIGINAL SIZE
CERTIFIED: H. REID
RPEQ No: 2098

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