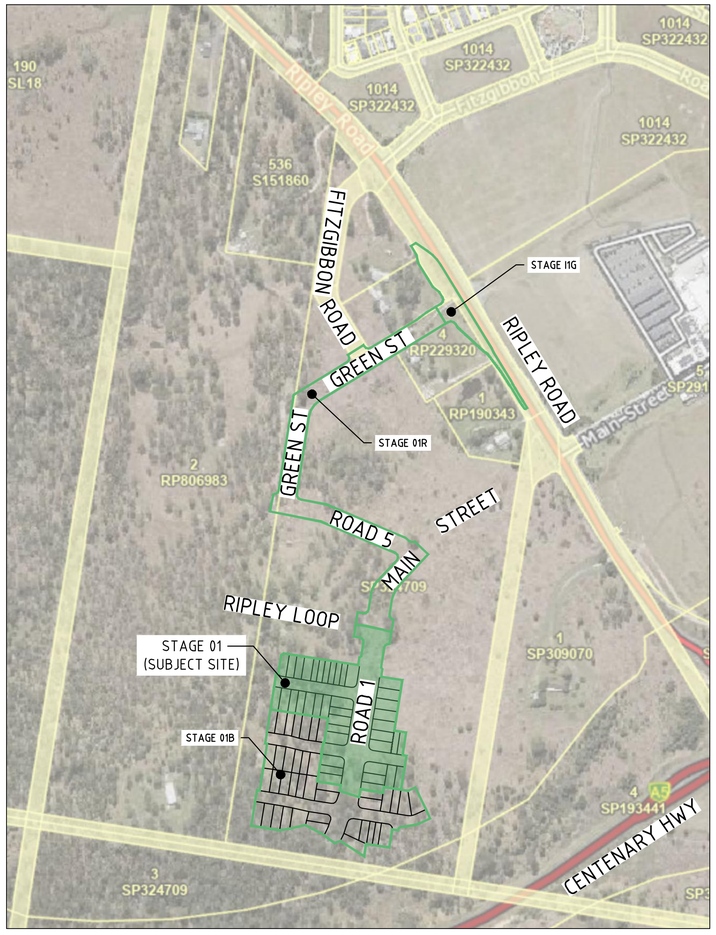
AMORY AT RIPLEY
STAGE 01
RIPLEY ESTATE DEVELOPMENT PTY LTD



LOCALITY PLAN

N.T.S.

DRAWING SCHEDULE

DRAWING	DESCRIPTION	REVISION
GENERAL		
320678-01AC0100	DRAWING SCHEDULE & LOCALITY PLAN	A
320678-01AC0101	GENERAL NOTES & LEGEND	A
320678-01AC0102	OVERALL KEY PLAN	A
320678-01AC0103	CONTROL LINE LAYOUT PLAN & TYPICAL SECTIONS	A
EARTHWORKS		
320678-01AC0200	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2	A
320678-01AC0201	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2	A
320678-01AC0202	EARTHWORKS SITE SECTIONS	A
ROADWORKS		
320678-01AC0300	ROADWORKS STANDARD NOTES & DETAILS	A
320678-01AC0301	ROADWORKS LAYOUT PLAN - SHEET 1 OF 2	A
320678-01AC0302	ROADWORKS LAYOUT PLAN - SHEET 2 OF 2	A
320678-01AC0303	ROAD 1 LONGITUDINAL SECTIONS - SHEET 1 OF 2	A
320678-01AC0304	ROAD 1 LONGITUDINAL SECTIONS - SHEET 2 OF 2	A
320678-01AC0305	ROAD 1 CROSS SECTIONS - SHEET 1 OF 2	A
320678-01AC0306	ROAD 2 LONGITUDINAL SECTIONS	A
320678-01AC0307	ROAD 2 CROSS SECTIONS	A
320678-01AC0308	ROAD 3 & ROAD 4 LONGITUDINAL SECTIONS	A
320678-01AC0309	ROAD 3 & ROAD 4 CROSS SECTIONS	A
320678-01AC0310	RIPLEY LOOP/ROAD 1 INTERSECTION DETAIL	A
320678-01AC0311	ROAD1/ROAD 2 INTERSECTION DETAIL	A
320678-01AC0312	ROAD 3/ROAD 4 INTERSECTION DETAILS - SHEET 1 OF 2	A
320678-01AC0313	ROAD 3/ROAD 4 INTERSECTION DETAILS - SHEET 2 OF 2	A
320678-01AC0314	TRAFFIC ISLAND SETOUT DETAILS	A
SIGNAGE & LINEMARKING		
320678-01AC0400	SIGNAGE & LINEMARKING DETAILED LAYOUT PLAN - SHEET 1 OF 2	A
320678-01AC0401	SIGNAGE & LINEMARKING DETAILED LAYOUT PLAN - SHEET 2 OF 2	A
STORMWATER DRAINAGE		
320678-01AC0500	STORMWATER DRAINAGE STANDARD NOTES & DETAILS	A
320678-01AC0501	STORMWATER DRAINAGE CATCHMENT PLAN	A
320678-01AC0502	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 4	A
320678-01AC0503	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 4	A
320678-01AC0504	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 4	A
320678-01AC0505	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 4 OF 4	A
320678-01AC0506	STORMWATER DRAINAGE CALCULATION TABLE - SHEET 1 OF 2	A
320678-01AC0507	STORMWATER DRAINAGE CALCULATION TABLE - SHEET 2 OF 2	A
SAFETY IN DESIGN REPORT		
320678-01AC0900	SAFETY IN DESIGN REPORT	A

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WARNING
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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale: NOT TO SCALE

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AMORY AT RIPLEY

Designed | Checked | Authorised | Date: DECEMBER 23

AMORY AT RIPLEY
STAGE 01
COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY | Drg No: 320678-01C0100 | Rev: B

file name 320678-01AC0100.dwg layout name C0100 plotted by Michael Brammer
file location C:\12d\SVdata\Spiire\SVN\01A_291\civil\ACAD plot date 23/02/2024 3:57 PM Sheet 2 of 11 Sheets

NOTES:

GENERAL

1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, SPECIFICATIONS, APPROVED AUTHORITY SPECIFICATIONS AND STANDARD DRAWINGS, AUSTRALIAN STANDARDS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE COUNCIL ENGINEER OR THEIR REPRESENTATIVE.
4. ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
5. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING SURFACES AND CONNECTION POINTS INCLUDING CONNECTION LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT ON SITE.
6. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS, BEST PRACTICE AND IN ACCORDANCE WITH INTERNATIONAL EROSION CONTROL ASSOCIATION PRACTICES AND GUIDELINES.
7. PROJECT SURVEYOR SHALL PEG COMMON BOUNDARY WITH ADJOINING PROPERTIES.
8. CONTRACTOR SHALL ASSESS LOCATION AND LEVEL OF ANY EXISTING FENCING AND RETAINING WALLS RELATIVE TO PROPOSED RETAINING WALL CONSTRUCTION.
9. CONTRACTOR MUST PROVIDE TEMPORARY PROPPING AS NECESSARY TO ENSURE THAT PROPOSED CONSTRUCTION WORKS DO NOT CAUSE ANY DAMAGE OR DRAINAGE ISSUES TO EXISTING NEIGHBORING PROPERTIES.
10. CONTRATOR TO PROVIDE DILAPIDATION REPORT OF ALL ASSETS IN THE VICINITY OF WORKS

EARTHWORKS

1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES.
3. THE CONTRACTOR SHALL ADVISE THE COUNCIL INSPECTOR OF THE PROPOSED SOURCE OF IMPORTED FILL TO BE BROUGHT ONTO THE DEVELOPMENT SITE AND PROVIDE CERTIFICATION (IF REQUESTED BY COUNCIL) FROM THE SUPPLIER / GEOTECHNICAL CONSULTANT.
4. THE CONTRACTOR SHALL ALSO ADVISE THE COUNCIL INSPECTOR OF THE PROPOSED HAUL ROUTE TO BE TAKEN BY ANY TRUCKS DELIVERING FILL TO THE PROPOSED DEVELOPMENT SITE.
5. IT IS THE PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO FILL MATERIAL IS DEPOSITED ONTO THE ROADS USED BY DELIVERY TRUCKS. ANY MATERIAL DEPOSITED ONTO ROADWAYS SHALL BE CLEANED AS NECESSARY TO AVOID CAUSING NUISANCE TO VEHICLE TRAFFIC.
6. ALL WORK SHALL BE IN ACCORDANCE WITH IPSWICH CITY COUNCIL DESIGN STANDARDS.
7. ALL EARTHWORKS & WORKS ASSOCIATED WITH PROPOSED DEVELOPMENT SHALL BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE PROJECT SPECIFIC GEOTECHNICAL REPORT AND AS3978.
8. WORKS MUST BE UNDERTAKEN IN ACCORDANCE WITH BUTLER PARTNERS REPORTS 010-218K - '633 RIPLEY ROAD' & '695 AND 787-815 RIPLEY ROAD' 31/01/2021
9. WHERE NEW WORK ABUTS EXISTING WORK THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
10. THE PLACEMENT OF ALL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENDURE THAT ALL FILL IS PLACED IN A "CONTROLLED MANNER", IN ACCORDANCE WITH AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS".
11. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A NATA ACCREDITED GEOTECHNICAL CONSULTANT TO SUPERVISE ALL EARTHWORKS PROCEDURES AND PROVIDE LEVEL 1 TESTING AND CERTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF AS3798.
12. STRIPPED TOPSOIL SHALL BE STOCKPILED WITHIN THE DEVELOPMENT SITE IN A POSITION APPROVED BY THE SUPERINTENDENT.
13. ANY IMPORTED FILL SHALL BE APPROVED AND FREE OF ORGANIC MATTER WITH CERTIFICATES PROVIDED
14. FILL SHALL BE PLACED IN MAXIMUM150mm LAYERS

LOCATION	MINIMUM DRY DENSITY RATIO (%)
BUILDING PADS	REFER SITE SPECIFIC GEOTECHNICAL REPORT RECOMMENDATIONS
ROADWAYS a) >0.5m BELOW PAVEMENT SUBGRADE b) <0.5m BELOW PAVEMENT SUBGRADE	 95 (Std.) 100 (Std.)
NOTE: THE RECOMMENDED COMPACTIONS ARE PERCENTAGES OF THE MAXIMUM DRY DENSITY DETERMINED BY AUSTRALIAN STANDARD 1289	

ROAD CONSTRUCTION

1. CONCTRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.
2. ONCE EXCAVATION TO SUBGRADE LEVEL HAS OCCURRED, CONTRACTOR TO PROVIDE CBR TEST RESULTS TO SUPERINTENDENT FOR FINAL PAVEMENT DESIGN CONFIRMATION.
3. PRIOR TO PLACING EACH LAYER OF PAVEMENT, COMPACTION TEST RESULTS ARE TO BE PROVIDED TO SUPERINTENDENT FOR ACCEPTANCE.
4. CONSTRUCTION OF KERB TO BE IN ACCORDANCE WITH RELEVANT COUNCIL STANDARDS.
5. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION. TESTING TO OCCUR AT MINIMUM 40m INTERVALS- 1 TEST FOR EVERY 2 LAYERS.

LOCATION	DENSITY RATIO (%)	TYPE
PAVEMENT	95	MODIFIED MAXIMUM DRY DENSITY
ROADWAYS a) >0.5m BELOW PAVEMENT SUBGRADE b) <0.5m BELOW PAVEMENT SUBGRADE	95 100	STANDARD MAXIMUM DRY DENSITY

GENERAL STORMWATER DRAINAGE

1. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE WITH CLEANOUTS AS REQUIRED.
2. ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN.
3. ALL PIPES ≤600 DIAMETER TO BE RUBBER RING JOINTED (R.R.J.) UNLESS STATED OTHERWISE. ALL OTHER PIPES TO BE FLUSH JOINTED (F.J) UNLESS STATED OTHERWISE.
4. ALL DRAINAGE AND DRAINAGE STRUCTURES TO BE IN ACCORDANCE WITH COUNCIL STANDARDS WITH THE INSTALLATION OF HEAVY DUTY LIDS.
5. CONCTRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.

PAVEMENT

1. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
2. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
3. WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

SIGNAGE AND LINEMARKING

1. LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL/AUTHROITY STANDARDS.
2. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742
3. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

CONCRETE

1. CONCTRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.

RETAINING WALLS

1. RETAINING WALLS SHOWN ON THESE CIVIL DRAWINGS INDICATE ONLY THE RETAINING WALL TYPE, LOCATION, HEIGHT AND RELATIVITY TO BOUNDARIES OR OTHER KNOWN ELEMENTS. ALL RETAINING WALL STRUCTURAL AND OTHER SPECIFICATION SHALL BE DETAILED BY OTHERS. THE APPOINTED CONTRACTOR SHALL REVIEW ALL DEVELOPMENT APPROVAL CONDITIONS, PLANS AND SPECIFICATIONS TO ENSURE THAT ALL RETAINING WALL LOADS, ANCILLARY DRAINAGE (SUBSOIL & SURFACE DRAINAGE) AND CONSTRAINTS ARE ACCOMMODATED (INCLUDING ANY FUTURE FENCES WHICH MAY BE ATTACHED), AND SHALL SUPPLY THE SUPERVISING ENGINEER ALL POST-CONSTRUCTION CERTIFICATIONS NECESSARY FOR RELEVANT LOCAL AUTHORITY ACCEPTANCE. FOR WORKS WITHIN QUEENSLAND THIS SHALL INCLUDE (BUT NOT LIMITED TO) QUEENSLAND GOVERNMENT - "FORM 15" AND "FORM 12" CERTIFIED BY AN R.P.E.Q. ENGINEER.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN	DW	DW
ELECTRICITY	E	
TELECOMMUNICATIONS & SERVICE PIT	T	
GAS MAIN	G	
SEWER & MAINTENANCE STRUCTURE	S	S
SWALE		
STORMWATER DRAIN & PIT	SWD	
STORMWATER PITS		
AG DRAIN AND FLUSHER	AG	AG
STORM WATER DRAINAGE PIT NUMBER		1
BARRIER KERB - TYPE B1		B1
BARRIER KERB - TYPE B2		B2
INVERT - TYPE CHANNEL		C1
EDGE RESTRAINT - TYPE ER2		ER2
MOUNTABLE KERB - TYPE 1		TYPE 1
SURFACE CONTOUR MAJOR	- 169.00 -	169.00
SURFACE CONTOUR MINOR	- 168.90 -	168.90
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
ROAD CENTERLINE		
ROAD CHAINAGES	CH200.000	CH200.000
LIMIT OF WORKS		
BATTER		
CUT EXTENTS		
FILL EXTENTS		
ROCK PITCHING		
FENCES		
GUARD RAIL		
TREE		
ROAD PAVEMENT - TYPE A		
ROAD PAVEMENT - TYPE B		
FOOTPATH		
RETAINING WALL		
RETAINING WALL HEIGHT		(2.0)

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

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AMORY AT RIPLEY

Designed | Checked | Authorised | Date DECEMBER 23

AMORY AT RIPLEY STAGE 01
GENERAL NOTES & LEGEND

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0101 Rev B

file name 320678-01AC0101.dwg Layout name C0101 plotted by Michael Brenner
file location C:\12d\SVdata\Spiire\SYN101A_29\Civil\ACAD plot date 23/02/2024 3:57 PM Sheet 2 of 11 Sheets

FOR CONTINUATION REFER DRAWING SET 320678-01R

LAYOUT PLAN - SHEET 1

N

RIPLEY LOOP

PARK

FUTURE LANEWAY

FUTURE LANEWAY

FUTURE LANEWAY

FUTURE LANEWAY

101 102 103 104 105 106 107 108 109 110 813

ROAD 2

FUTURE STAGES

PARK

135 136 137 138 139 140 141 116 117 118 119 120

ROAD 1

11 12 13 14 15 16 17 18 19

FUTURE STAGES

ROAD 4

127 126 125 124 123 122 121

ROAD 3

ROAD 3

ROAD 4

160 161 162 163 164 165 142 143 144

FUTURE STAGE 1B

63 62 64 65 61

152 151 150 149 148 147 145 60 146

FUTURE LANEWAY

OVERALL KEY PLAN

SCALE 1:500

LAYOUT PLAN - SHEET 2

FOR CONTINUATION REFER DRAWING SET 320678-01B

WARNING

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B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

H 1:500
SCALE @ A1

0 5 10 15 20 25

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AMORY AT RIPLEY

Designed Checked

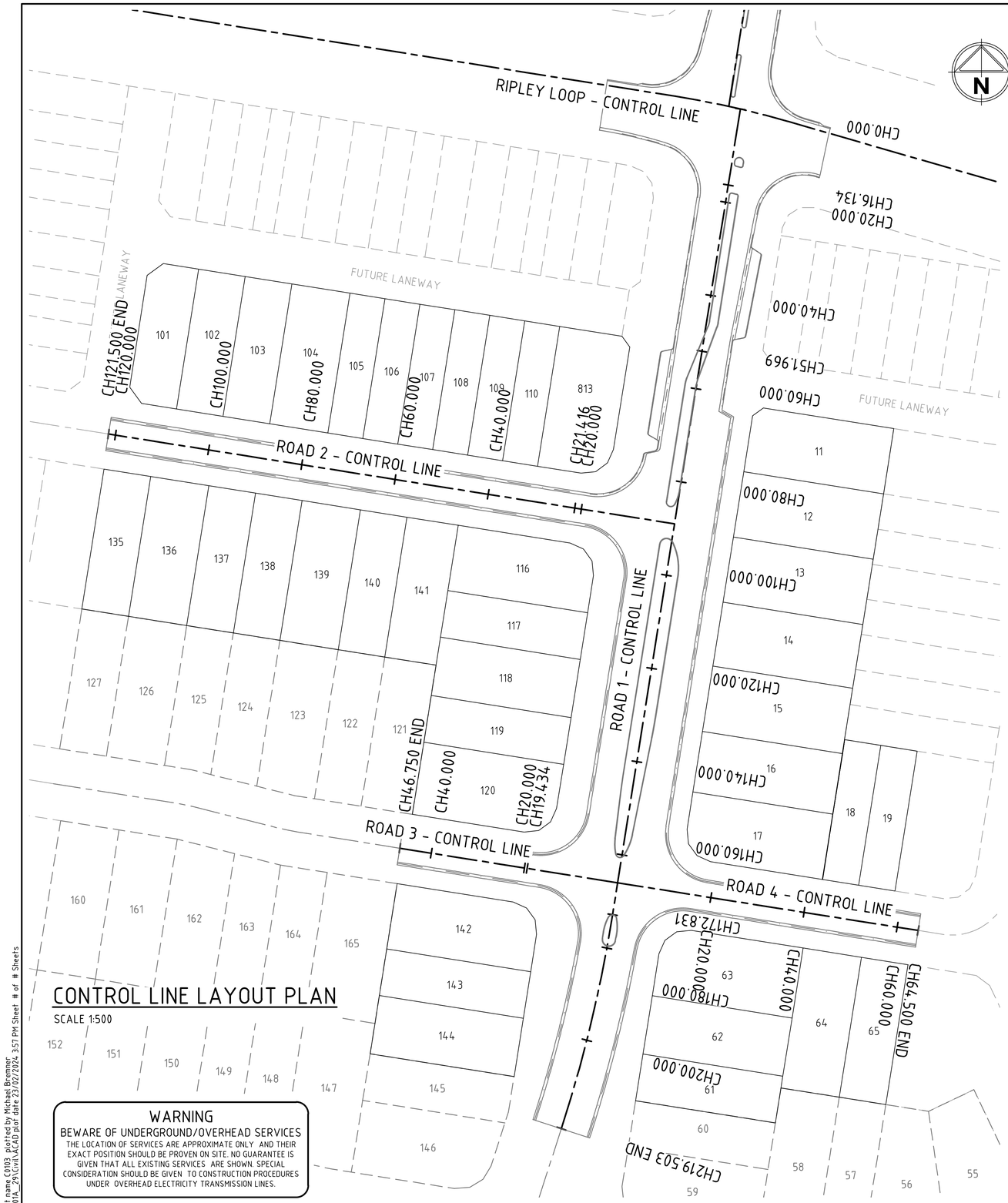
Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
OVERALL KEY PLAN

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0102 Rev B

file name 320678-01AC0102.dwg Layout name C0102 plotted by Michael Brenner
file location C:\12d\SydneyProjects\SYN\01a_29\Civil\ACAD plot date 23/02/2024 3:57 PM Sheet 2 of 9 Sheets



CONTROL LINE LAYOUT PLAN

SCALE 1:500

WARNING

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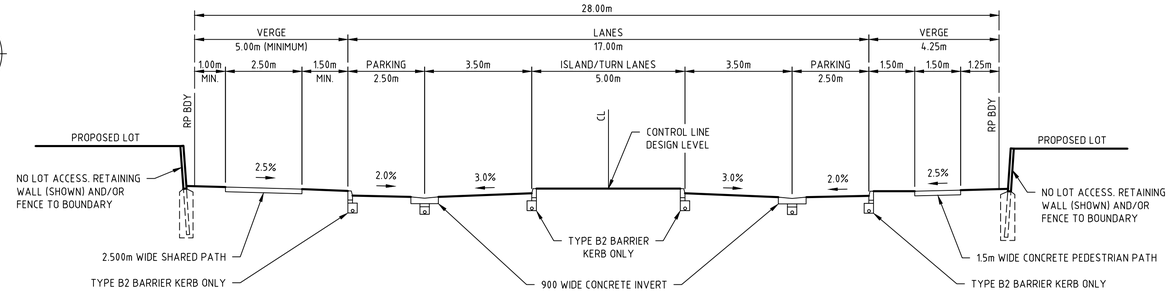
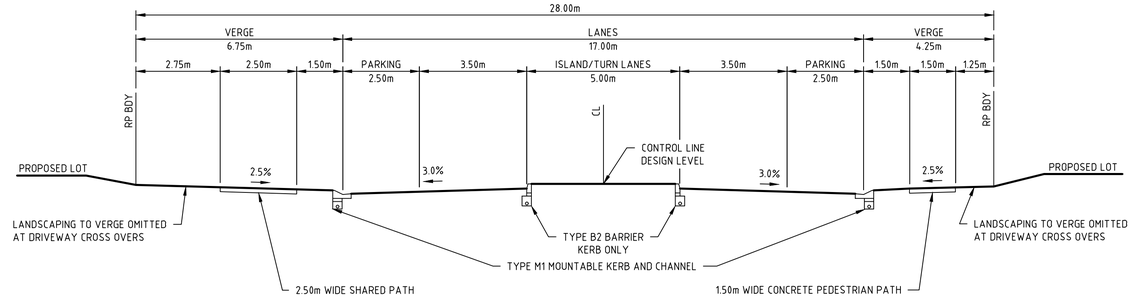


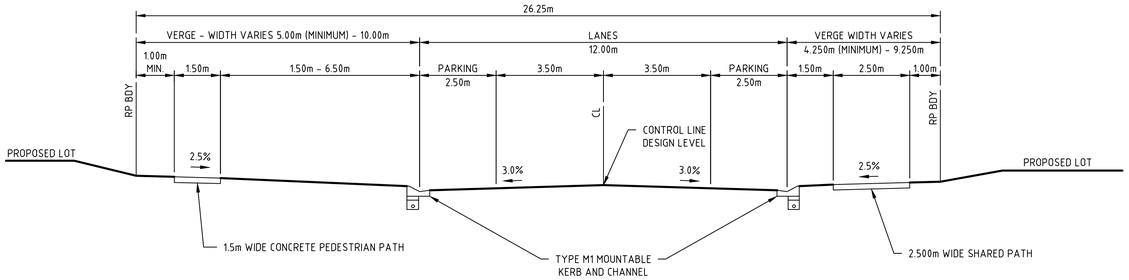
ROAD 1 - TYPICAL SECTION - 28.0m NEIGHBOURHOOD CONNECTOR WITH PARKING BAYS FROM RIPLEY LOOP TO ROAD 2 INTERSECTION

SCALE 1:100



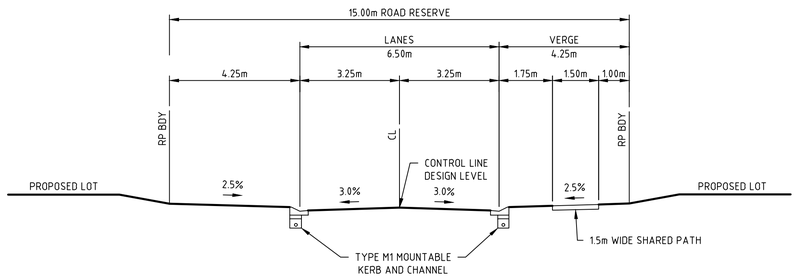
ROAD 1 - TYPICAL SECTION - 28.0m NEIGHBOURHOOD CONNECTOR WITH LOT ACCESS FROM ROAD 2 TO ROAD 3/ROAD 4 INTERSECTION

SCALE 1:100



ROAD 1 - TYPICAL SECTION - 26.25m NEIGHBOURHOOD CONNECTOR WITH LOT ACCESS FROM ROAD 3/ROAD 4 TO END OF WORKS

SCALE 1:100



TYPICAL SECTION - 15.00m NEIGHBOURHOOD ACCESS ROAD
ROAD 2 - CH.000 TO CH 121.500
ROAD 3 - CH.000 TO CH 46.750
ROAD 4 - CH.000 TO CH 64.500

SCALE 1:100

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

LAYOUT PLAN
H 1:500
SCALE @ A1
0 5 10 15 20 25

TYPICAL SECTIONS
H 1:100
SCALE @ A1
0 1 2 3 4 5

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AMORY AT RIPLEY

Designed | Checked

Authorised | Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
CONTROL LINE LAYOUT PLAN AND TYPICAL ROAD SECTIONS
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY

Drg No 320678-01C0103 Rev B

file name: 320678-01AC0103.dwg, Layout name: C0103, plotted by: Michael Bremner
file location: C:\12d\SVdata\Spiire-SYN\01a_29\Civil\ACAD plot date: 23/02/2024, 3:57 PM Sheet # of # Sheets

BULK EARTHWORKS 'EARLY WORKS' DESIGN. REFER TO DRAWING SET 320678-BEW FOR DETAILS

BULK EARTHWORKS STAGE 01R. REFER TO DRAWING SET 320678-01R FOR DETAILS

N

FUTURE LANEWAY

FUTURE LANEWAY

FUTURE LANEWAY

ROAD 2

ROAD 1

CH121.500 END

CH120.000

CH100.000

CH80.000

CH60.000

CH40.000

CH21.416

CH20.000

CH0.000

CH16.134

CH20.000

CH51.969

CH60.000

CH80.000

CH100.000

101 102 103 104 105 106 107 108 109 110 813

11 12 13

135 136 137 138 139 140 141 116

A C0203

B C0203

C C0203

FOR CONTINUATION REFER TO DRG 320678-01C0201

WARNING

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EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2

SCALE 1:250

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:250
SCALE @ A1
0 2.5 5 7.5 10 12.5

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AMORY AT RIPLEY

Designed Checked

Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
EARTHWORKS LAYOUT PLAN
SHEET 1 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0200 Rev B

file name 320678-01#C0200.dwg layout name C0200 plotted by Michael Bremner
file location C:\12#S\data\Spiire\SYN\V01#_29\Civil\ACAD plot date 23/02/2024 3:57 PM Sheet # of # Sheets

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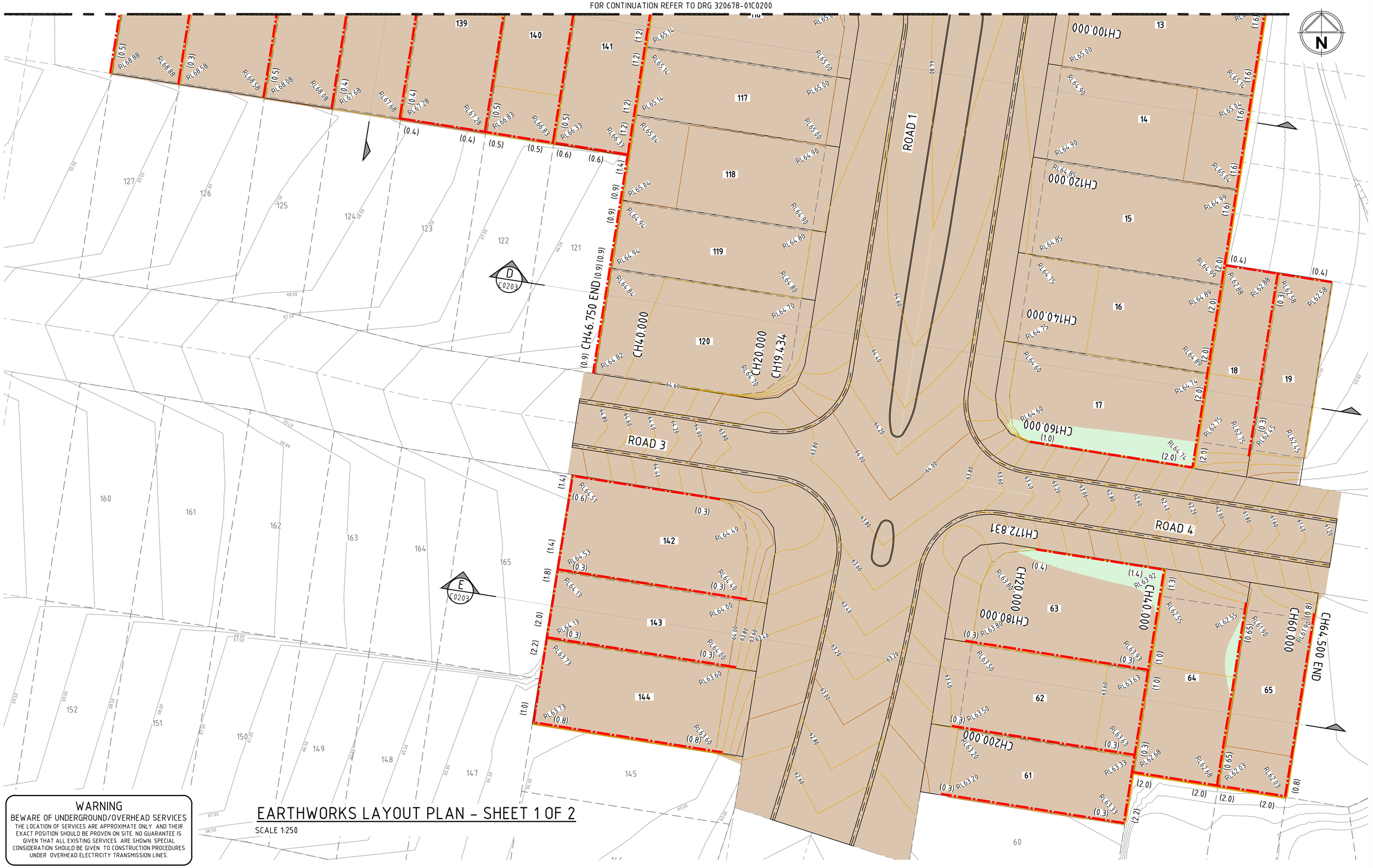

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EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2

SCALE 1:250

Rev	Amendments	Approved	Date
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A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:250
SCALE @ A1
0 2.5 5 7.5 10 12.5

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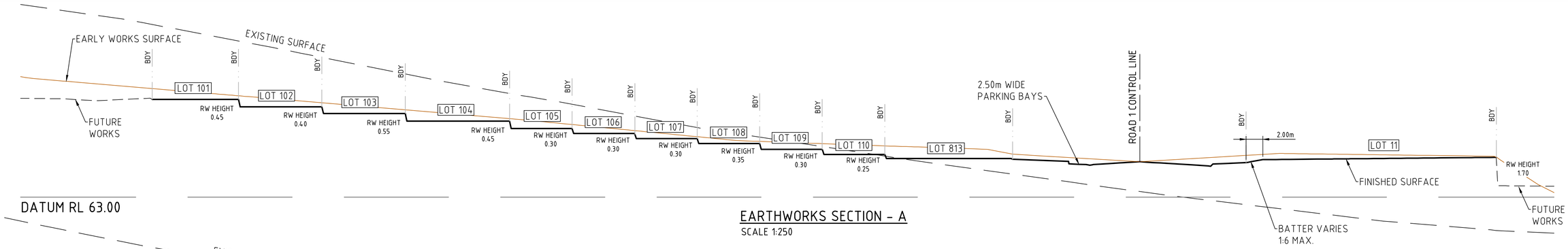
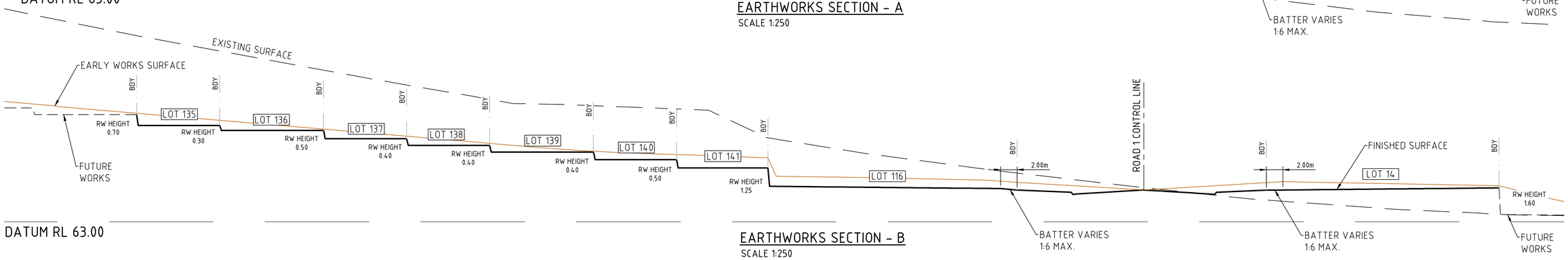
AMORY AT RIPLEY
STAGE 01
EARTHWORKS LAYOUT PLAN
SHEET 2 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0201 Rev B

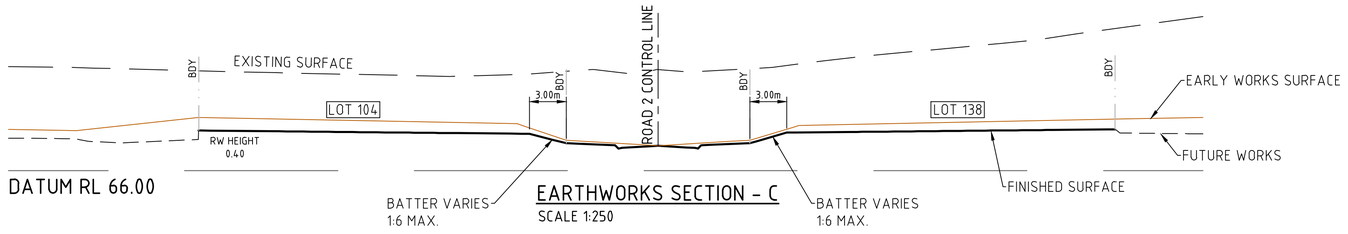
file name 320678-01AC0201.dwg Layout name C0201 plotted by Michael Brenner
file location C:\12dS\data\Spiire\SYN\01A_29\Civil\ACAD plot date 29/02/2024, 3:58 PM Sheet # of # Sheets



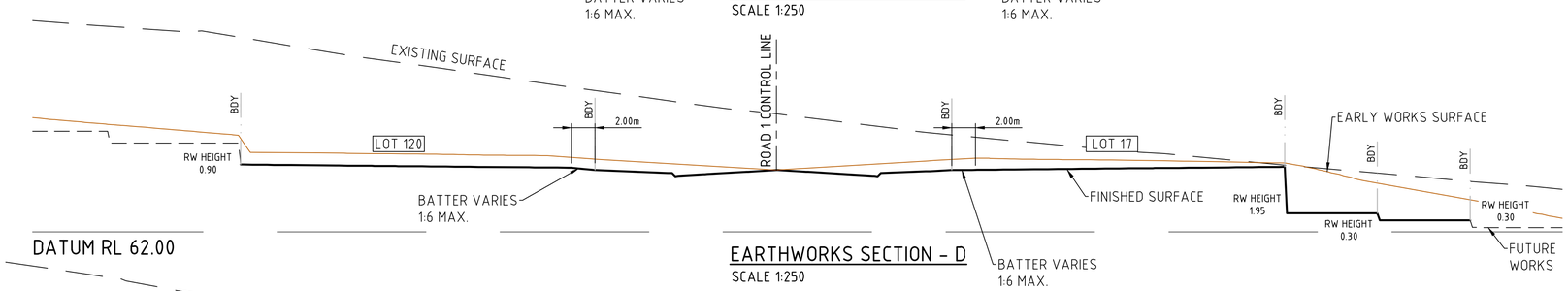
EARTHWORKS SECTION - A
SCALE 1:250



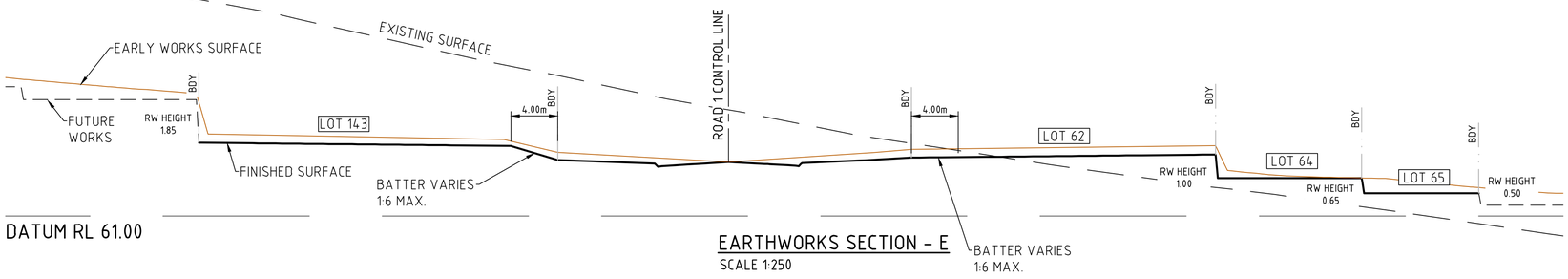
EARTHWORKS SECTION - B
SCALE 1:250



EARTHWORKS SECTION - C
SCALE 1:250



EARTHWORKS SECTION - D
SCALE 1:250



EARTHWORKS SECTION - E
SCALE 1:250

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:250
SCALE @ A1
0 2.5 5 7.5 10 12.5

System Certified

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Queensland 4000 Australia T 61 7 3522 3000
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AMORY AT RIPLEY

Designed
Checked
Authorised
Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
EARTHWORKS SITE SECTIONS

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY
Drg No 320678-01C0202
Rev B

file name 320678-01C0202.dwg layout name C0202 plotted by Michael Bremner
file location C:\12c6\Data\Spiire\SYN\01A_29\Civil\ACAD plot date 23/02/2024 3:58 PM Sheet 5 of 9 Sheets

DESIGN PAVEMENT PROFILE- TYPE A

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) TYPE A*
WEARING SURFACE	ASPHALT CONCRETE AC14M	50
PRIMER SEAL	AMC0 OR AMC00 PRIME	YES
BASE COURSE	TYPE 2.1 (MIN CBR 80)	125
	UPPER PAVEMENT TOTAL	175
UPPER SUBBASE	TYPE 2.3 (MIN CBR 45)	100
LOWER SUBBASE	TYPE 2.5 (MIN CBR 15)	295
	TOTAL PAVEMENT DEPTH	570

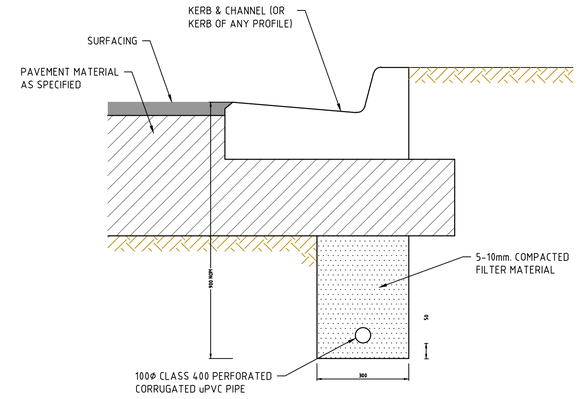
DESIGN PAVEMENT PROFILE- TYPE B

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) TYPE B*
WEARING SURFACE	ASPHALT CONCRETE AC14M	35
PRIMER SEAL	AMC0 OR AMC00 PRIME	YES
BASE COURSE	TYPE 2.1 (MIN CBR 80)	125
	UPPER PAVEMENT TOTAL	160
UPPER SUBBASE	TYPE 2.3 (MIN CBR 45)	100
LOWER SUBBASE	TYPE 2.5 (MIN CBR 15)	155
	TOTAL PAVEMENT DEPTH	415

DESIGN PAVEMENT PROFILE- TYPE C

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) TYPE B*
WEARING SURFACE	ASPHALT CONCRETE AC14M	35
PRIMER SEAL	AMC0 OR AMC00 PRIME	YES
BASE COURSE	TYPE 2.1 (MIN CBR 80)	125
	UPPER PAVEMENT TOTAL	160
UPPER SUBBASE	TYPE 2.3 (MIN CBR 45)	100
LOWER SUBBASE	TYPE 2.5 (MIN CBR 15)	195
	TOTAL PAVEMENT DEPTH	455

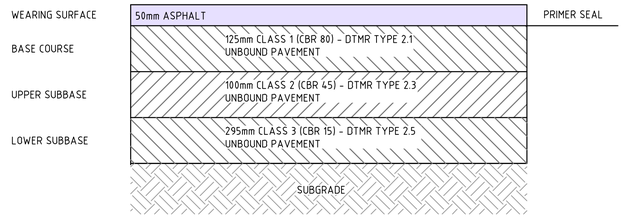
ROAD NAME	TYPE
RIPLEY LOOP ROAD	TYPE A
ROAD 1	TYPE C
ROAD 2	TYPE B
ROAD 3	TYPE B
ROAD 4	TYPE B



SUBSURFACE PAVEMENT DRAIN

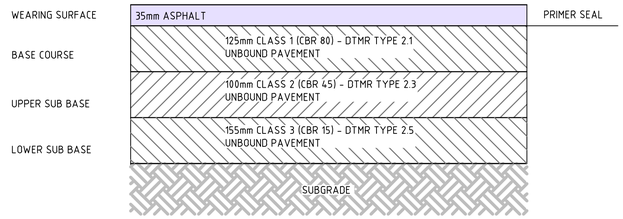
REFER TO ICC STANDARD DWG NO. SR.20

NOT TO SCALE



PAVEMENT TYPE A

RIPLEY LOOP



PAVEMENT TYPE B

ROAD 2, 3, 4

MEDIAN INFILL

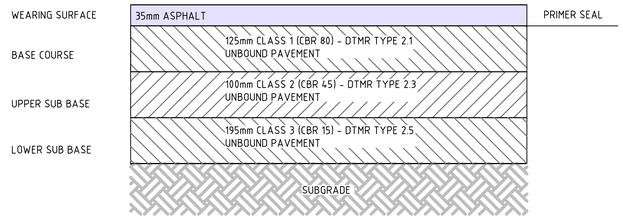
100mm N32 CONCRETE WITH 50mm SAND- REFER IPWEA RS-065

FOOTPATHS

100mm N25 CONCRETE- SL72 50 TOP COVER- REFER ICC SR.19

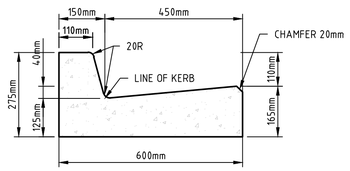
DRIVEWAYS (FUTURE LANEWAY ACCESS)

175mm N32 CONCRETE WITH SL72 MESH AND 50mm TOP COVER. REFER ICC SR13



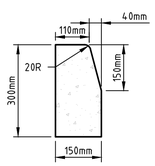
PAVEMENT TYPE C

ROAD 1



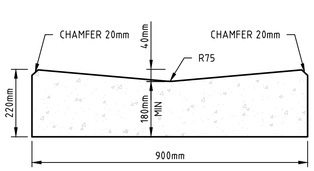
TYPE B1
BARRIER KERB

N.T.S



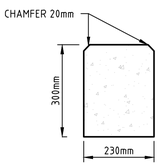
TYPE B2
BARRIER KERB

N.T.S



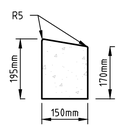
TYPE CHANNEL
INVERT

N.T.S



TYPE ER2
EDGE RESTRAINT

N.T.S



TYPE 1
MOUNTABLE KERB. MODIFIED VERSION OF TMR SD. 1033 KERB TYPE 1. REFER TO DETAIL A IN FIGURE B1.04 OF THE TMR SELECTION AND DESIGN OF CYCLE TRACKS

N.T.S

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER IPWEA STD DRAWING RS.080 UNLESS STATED OTHERWISE

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

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spiire.com.au ABN 55 050 029 635

Designed Checked

Authorised Date DECEMBER 23

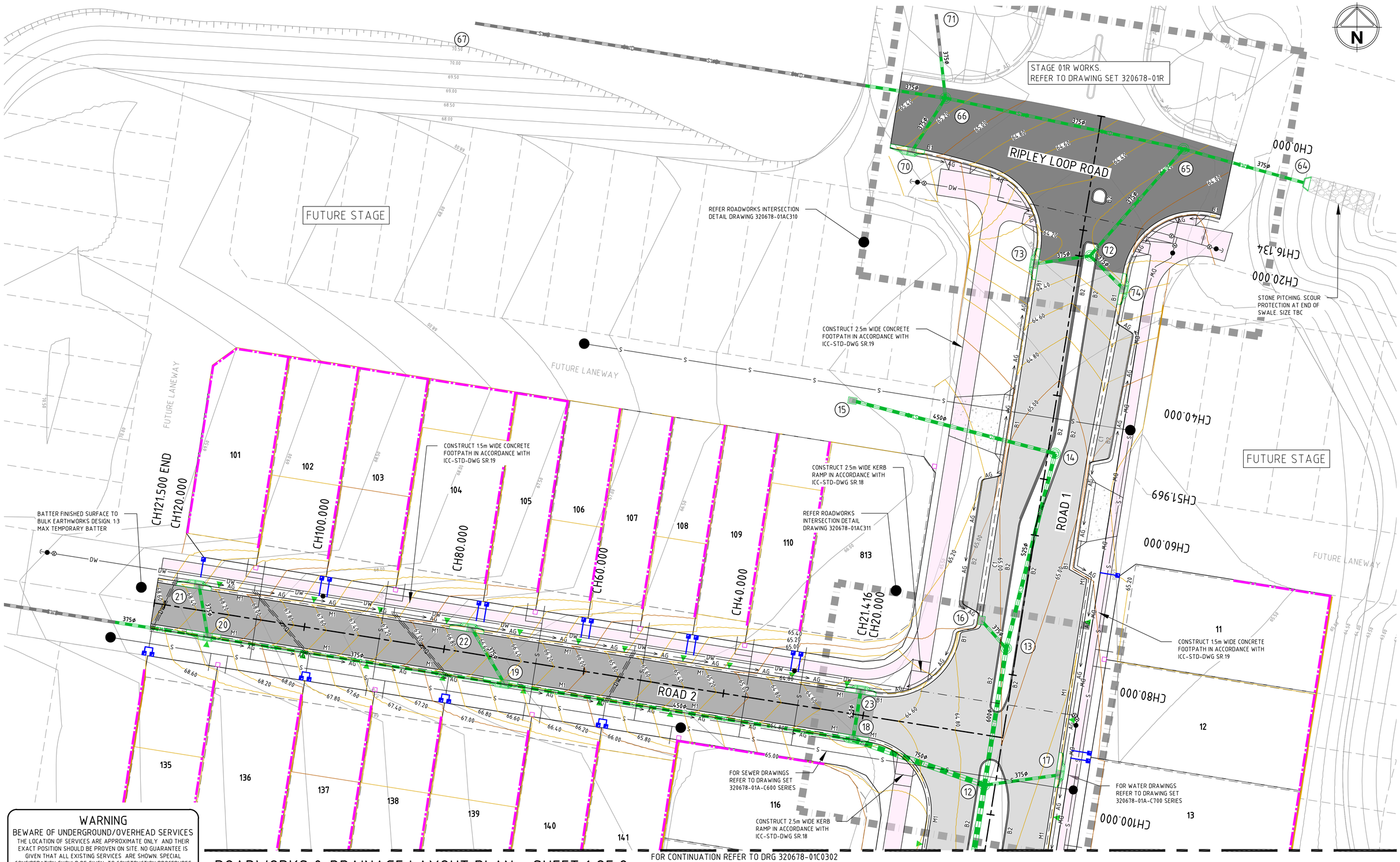
AMORY AT RIPLEY
STAGE 01
ROADWORKS STANDARD NOTES AND DETAILS

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY

Drg No 320678-01C0300 Rev B

file name: 320678_01AC0300.dwg layout name: C0300 plotted by: Michael Bremner
file location: C:\12d\S\data\Spiire_SYN\01A_25\Civil\ACAD plot date: 29/02/2024 3:58 PM Sheet 2 of 11 Sheets



WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 2

SCALE 1:250

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:250 SCALE @ A1
0 2.5 5 7.5 10 12.5

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AMORY AT RIPLEY

Designed Checked

Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROADWORKS & DRAINAGE LAYOUT PLAN
SHEET 1 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No **320678-01C0301** Rev **B**

file name: 320678-01AC0301.dwg Layout name:C0301 plotted by: Michael Brenner
file location: C:\12d\S\data\Spiire\SYN\10A_291Civil\ACAD plot date: 23/02/2024 3:59 PM Sheet 6 of 7 Sheets

FOR CONTINUATION REFER TO DRG 320678-01C0301

FUTURE STAGE 01B

CH46.750 END

CH4.000

CH20.000

CH19.434

CH120.000

CH140.000

CH160.000

CH172.831

CH180.000

CH200.000

CH219.503 END

CH40.000

CH60.000

CH64.500 END

ROAD 3

ROAD 4

ROAD 1

CONSTRUCT 2.5m WIDE CONCRETE KERB RAMP IN ACCORDANCE WITH ICC-STD-DWG SR.18

BATTER FINISHED SURFACE TO BULK EARTHWORKS DESIGN. 1:3 MAX TEMPORARY BATTER

REFER ROADWORKS INTERSECTION DETAIL DRAWING 320678-01AC312

CONSTRUCT 1.5m WIDE KERB RAMP IN ACCORDANCE WITH ICC-STD-DWG SR.18

CONSTRUCT 1.5m WIDE CONCRETE FOOTPATH IN ACCORDANCE WITH ICC-STD-DWG SR.19

FOR WATER DRAWINGS REFER TO DRAWING SET 320678-01A-C700 SERIES

CONSTRUCT 1.5m WIDE CONCRETE FOOTPATH IN ACCORDANCE WITH ICC-STD-DWG SR.19

CONSTRUCT 2.5m WIDE KERB RAMP IN ACCORDANCE WITH ICC-STD-DWG SR.18

CONSTRUCT 1.5m WIDE KERB RAMP IN ACCORDANCE WITH ICC-STD-DWG SR.18

CONSTRUCT 1.5m WIDE CONCRETE FOOTPATH IN ACCORDANCE WITH ICC-STD-DWG SR.19

CONSTRUCT 1.5m WIDE CONCRETE FOOTPATH IN ACCORDANCE WITH ICC-STD-DWG SR.19

FOR SEWER DRAWINGS REFER TO DRAWING SET 320678-01A-C600 SERIES

BATTER FINISHED SURFACE TO BULK EARTHWORKS DESIGN. 1:3 MAX TEMPORARY BATTER

STAGE 01B WORKS. REFER TO DRAWING SET 320678-01B

WARNING

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ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 2

SCALE 1:250

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

H 1:250 0 2.5 5 7.5 10 12.5

SCALE @ A1

System Certified

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Queensland 4000 Australia T 61 7 3522 3000
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AMORY AT RIPLEY

Designed Checked

Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROADWORKS & DRAINAGE LAYOUT PLAN
SHEET 2 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY

Drg No 320678-01C0302 Rev B

file name: 320678_01AC0302.dwg layout name: C0302 plotted by: Michael Brenner
file location: C:\12d\S\data\Spiire_S\YANUA_25\Civil\ACAD plot date: 29/02/2024, 3:59 PM Sheet 7 of 7 Sheets

DATUM RL55.000

DESIGN LEVELS LEFT LIP OF KERB		REFER TO DRAWING 320678-01C0310 FOR INTERSECTION LEVELS			64.127	64.229	64.335	64.879	64.886	65.017	65.010	64.984	REFER TO DRAWING 320678-01C0311 FOR INTERSECTION LEVELS		64.603	64.549	64.469
DESIGN LEVELS RIGHT LIP OF KERB						64.201	64.310	64.869	64.876	65.017	65.010	64.984	64.803	64.703	64.603	64.549	64.469
CUT / FILL DEPTH	1.518	1.323	1.284	1.296	1.354	1.467	1.583	2.094	2.099	2.102	2.058	1.920	1.263	0.315	-0.900	-1.516	-1.985
DESIGN LEVELS ON ROAD CL	64.672	64.295	64.239	64.245	64.293	64.395	64.502	65.045	65.052	65.183	65.177	65.150	65.050	64.950	64.850	64.796	64.715
EXISTING SURFACE ON ROAD CL	63.154	62.972	62.954	62.949	62.939	62.928	62.919	62.951	62.953	63.082	63.118	63.230	63.787	64.635	65.750	66.311	66.700
CHAINAGE	0.000	12.567	16.317	17.567	20.000	22.567	24.697	39.697	40.000	51.969	54.697	60.000	80.000	100.000	120.000	130.881	140.000

LONGITUDINAL SECTION - ROAD 1

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100

file name 320678-01AC0303.dwg layout name C0303 plotted by Michael Bremner
file location C:\12dS\data\SpiireSYN\01A_29\Civil\ACAD plot date 23/02/2024 3:59 PM Sheet 5 of 9 Sheets

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1 : 250 0 2.5 5 7.5 10 12.5
SCALE @ A1
V 1 : 100 0 1 2 3 4 5

System Certified

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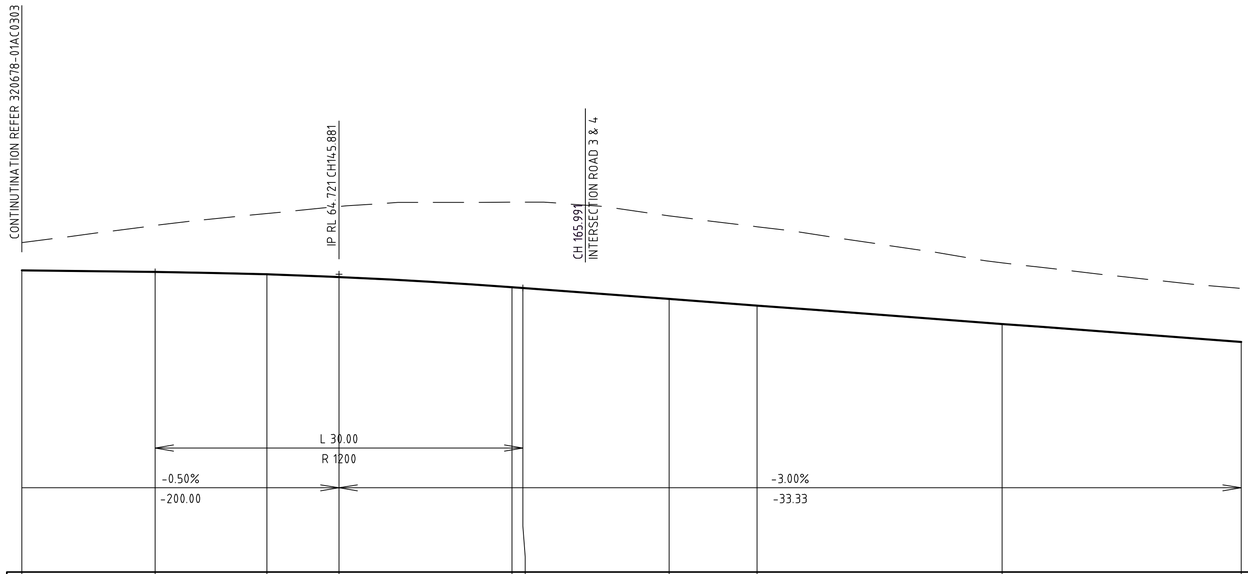
AMORY AT RIPLEY

Designed
Checked
Authorised
Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 1 LONGITUDINAL SECTION
SHEET 1 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No **320678-01C0303** Rev **B**



LONGITUDINAL SECTION - ROAD 1

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100

CONTROL LINE - ROAD 1 - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9979.420	37281.728	64.672	189°00'50.01"			
	10.000	9977.853	37271.852	64.372	189°00'50.01"			
	20.000	9976.287	37261.975	64.293	189°00'50.01"			
	30.000	9974.720	37252.099	64.741	189°00'50.01"			
	40.000	9973.153	37242.222	65.052	189°00'50.01"			
	50.000	9971.586	37232.346	65.180	189°00'50.01"			
	60.000	9970.020	37222.469	65.150	189°00'50.01"			
	70.000	9968.453	37212.593	65.100	189°00'50.01"			
	80.000	9966.886	37202.716	65.050	189°00'50.01"			
	90.000	9965.319	37192.840	65.000	189°00'50.01"			
	100.000	9963.753	37182.963	64.950	189°00'50.01"			
	110.000	9962.186	37173.087	64.900	189°00'50.01"			
	120.000	9960.619	37163.210	64.850	189°00'50.01"			
	130.000	9959.052	37153.334	64.800	189°00'50.01"			
	140.000	9957.486	37143.457	64.715	189°00'50.01"			
	150.000	9955.919	37133.581	64.548	189°00'50.01"			
	160.000	9954.352	37123.704	64.297	189°00'50.01"			
	170.000	9952.786	37113.828	63.997	189°00'50.01"			
TC	172.831	9952.342	37111.031	63.912	189°00'50.01"			
	180.000	9951.134	37103.965	63.697	190°22'58.82"			
	190.000	9949.168	37094.161	63.397	192°17'34.31"			
IP 2	196.167	9948.678	37087.937	63.212		R = 300.000	46.672	8°54'49.22"
	200.000	9946.877	37084.428	63.097	194°12'09.80"			
	210.000	9944.262	37074.776	62.797	196°06'45.30"			
CT	219.503	9941.481	37065.689	62.512	197°55'39.23"			
	220.000	9941.328	37065.217	62.497	197°55'39.23"			

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1 : 250 SCALE @ A1
V 1 : 100
0 2.5 5 7.5 10 12.5
0 1 2 3 4 5

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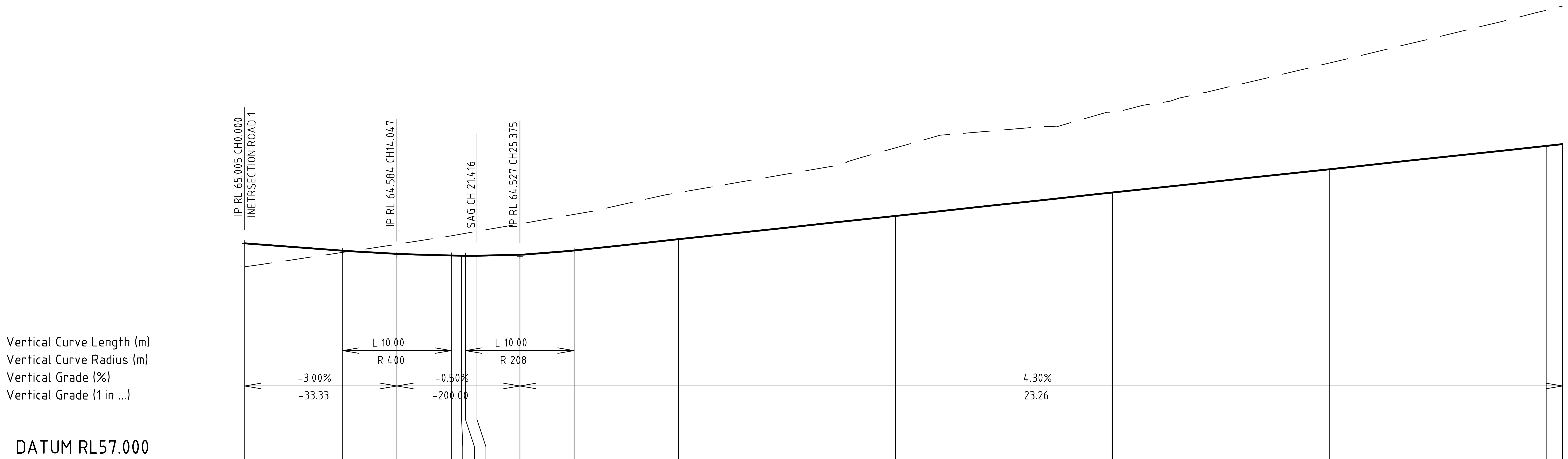
AMORY AT RIPLEY

Designed Checked
Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 1 LONGITUDINAL SECTION
SHEET 2 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY
Drg No 320678-01C0304
Rev B



DATUM RL57.000

REFER TO DRAWING 320678-01C0311 FOR INTERSECTION LEVELS

CHAINAGE	0.000	9.047	14.047	19.047	20.000	20.375	21.416	25.375
DESIGN LEVELS LEFT LIP OF KERB				64.469	64.465	64.463	64.460	64.498
DESIGN LEVELS RIGHT LIP OF KERB				64.469	64.465	64.463	64.460	64.498
CUT / FILL DEPTH	0.865	0.062	-0.355	-0.726	-0.796	-0.823	-0.897	-1.136
DESIGN LEVELS ON ROAD CL	65.005	64.734	64.615	64.559	64.554	64.552	64.550	64.587
EXISTING SURFACE ON ROAD CL	64.140	64.672	64.970	65.285	65.350	65.375	65.447	65.723

CHAINAGE	30.375	40.000	60.000	80.000	100.000	120.000	121.500
DESIGN LEVELS LEFT LIP OF KERB	64.653	65.067	65.927	66.787	67.647	68.507	
DESIGN LEVELS RIGHT LIP OF KERB	64.653	65.067	65.927	66.787	67.647	68.507	
CUT / FILL DEPTH	-1.330	-1.721	-2.512	-2.968	-3.914	-5.005	-5.093
DESIGN LEVELS ON ROAD CL	64.742	65.156	66.016	66.876	67.736	68.596	68.660
EXISTING SURFACE ON ROAD CL	66.072	66.877	68.528	69.844	71.650	73.601	73.753

LONGITUDINAL SECTION - ROAD 2

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100

CONTROL LINE - ROAD 2 - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	9965.481	37193.836	65.005	279°00'49.57"
	10.000	9955.605	37195.403	64.706	279°00'49.57"
	20.000	9945.728	37196.969	64.554	279°00'49.57"
	30.000	9935.852	37198.536	64.726	279°00'49.57"
	40.000	9925.975	37200.103	65.156	279°00'49.57"
	50.000	9916.099	37201.669	65.586	279°00'49.57"
	60.000	9906.222	37203.236	66.016	279°00'49.57"
	70.000	9896.346	37204.803	66.446	279°00'49.57"
	80.000	9886.469	37206.370	66.876	279°00'49.57"
	90.000	9876.593	37207.936	67.306	279°00'49.57"
	100.000	9866.716	37209.503	67.736	279°00'49.57"
	110.000	9856.840	37211.070	68.166	279°00'49.57"
	120.000	9846.963	37212.637	68.596	279°00'49.57"

file name 320678-01AC0306.dwg layout name C0306 plotted by Michael Bremner
file location C:\12dS\data\SpiireSYN\01A_29\Civil\ACAD plot date 23/02/2024 3:59 PM Sheet 5 of 9 Sheets

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1 : 250 — 0, 2.5, 5, 7.5, 10, 12.5
SCALE @ A1
V 1 : 100 — 0, 1, 2, 3, 4, 5

dlcs ISO 9001 certified, ISO 45001 certified, ISO 14001 certified
System Certified

spiire
Waterfront Place, level 9/1 Eagle St, Brisbane City
Queensland 4000 Australia T 61 7 3522 3000
spiire.com.au ABN 55 050 029 635

AMORY AT RIPLEY

Designed
Checked
Authorised
Date DECEMBER 23

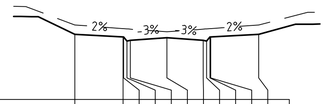
AMORY AT RIPLEY
STAGE 01
ROAD 2 LONGITUDINAL SECTION

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No **320678-01C0306** Rev **B**

CENTRELINE DATA
E = 9906.222
N = 37203.236
Z = 66.016

Datum 64.00

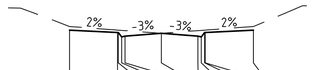


DESIGN SURFACE	66.120		66.042	66.042	65.902	65.927	66.016	65.927	65.902	66.042	66.042	66.120
EXISTING SURFACE	66.430		66.312	66.311	66.302	66.294	66.205	66.294	66.302	66.311	66.312	66.430
DESIGN OFFSET	-7.500		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 60.000

CENTRELINE DATA
E = 9845.482
N = 37212.872
Z = 68.66

Datum 67.00

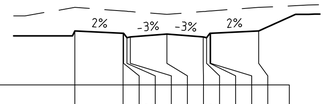


DESIGN SURFACE	68.765		68.686	68.686	68.546	68.571	68.660	68.571	68.546	68.686	68.686	68.765
EXISTING SURFACE	68.885		68.768	68.766	68.758	68.750	68.660	68.750	68.758	68.766	68.768	68.886
DESIGN OFFSET	-7.500		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 121.500

CENTRELINE DATA
E = 9925.975
N = 37200.103
Z = 65.156

Datum 63.50

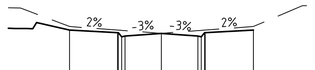


DESIGN SURFACE	65.260		65.182	65.182	65.042	65.067	65.156	65.067	65.042	65.182	65.182	65.260
EXISTING SURFACE	66.030		65.912	65.911	65.902	65.894	65.805	65.894	65.902	65.911	65.912	66.030
DESIGN OFFSET	-7.500		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 40.000

CENTRELINE DATA
E = 9846.963
N = 37212.637
Z = 68.596

Datum 66.50

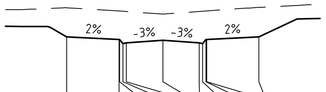


DESIGN SURFACE	68.700		68.622	68.622	68.482	68.507	68.596	68.507	68.482	68.622	68.622	68.700
EXISTING SURFACE	68.821		68.703	68.702	68.694	68.685	68.596	68.685	68.693	68.702	68.703	68.821
DESIGN OFFSET	-7.500		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 120.000

CENTRELINE DATA
E = 9945.728
N = 37196.969
Z = 64.554

Datum 62.50

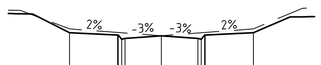


DESIGN SURFACE	64.665		64.580	64.580	64.440	64.465	64.554	64.465	64.440	64.580	64.580	64.665
EXISTING SURFACE	65.612		65.507	65.505	65.498	65.490	65.405	65.491	65.499	65.507	65.509	65.625
DESIGN OFFSET	-7.836		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.836

CH 20.000

CENTRELINE DATA
E = 9866.716
N = 37209.503
Z = 67.736

Datum 66.00

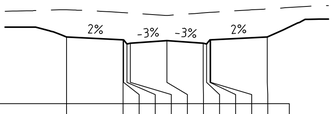


DESIGN SURFACE	67.840		67.762	67.762	67.622	67.647	67.736	67.647	67.622	67.762	67.762	67.840
EXISTING SURFACE	67.961		67.843	67.842	67.833	67.825	67.736	67.825	67.834	67.842	67.843	67.961
DESIGN OFFSET	-7.500		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 100.000

CENTRELINE DATA
E = 9947.033
N = 37196.762
Z = 64.561

Datum 62.50

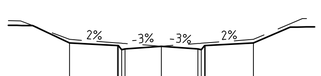


DESIGN SURFACE	64.679		64.587	64.587	64.447	64.472	64.561	64.472	64.447	64.587	64.587	64.679
EXISTING SURFACE	65.565		65.473	65.472	65.465	65.457	65.379	65.463	65.471	65.478	65.479	65.593
DESIGN OFFSET	-8.190		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	8.190

CH 18.679

CENTRELINE DATA
E = 9886.469
N = 37206.37
Z = 66.876

Datum 65.00



DESIGN SURFACE	66.980		66.902	66.902	66.762	66.787	66.876	66.787	66.762	66.902	66.902	66.980
EXISTING SURFACE	67.101		66.983	66.982	66.974	66.965	66.876	66.965	66.974	66.982	66.983	67.101
DESIGN OFFSET	-7.500		-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 80.000

CROSS SECTIONS - ROAD 2 - CH0.000 TO CH121.500

SCALE HORIZONTAL 1:250
VERTICAL 1:100

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:1000
SCALE @ A1
0 10 20 30 40 50

dlca ISO 9001 certified ISO 45001 certified ISO 14001 certified
System Certified

spiire
Waterfront Place, level 9/1 Eagle St, Brisbane City
Queensland 4000 Australia T 61 7 3522 3000
spiire.com.au ABN 55 050 029 635

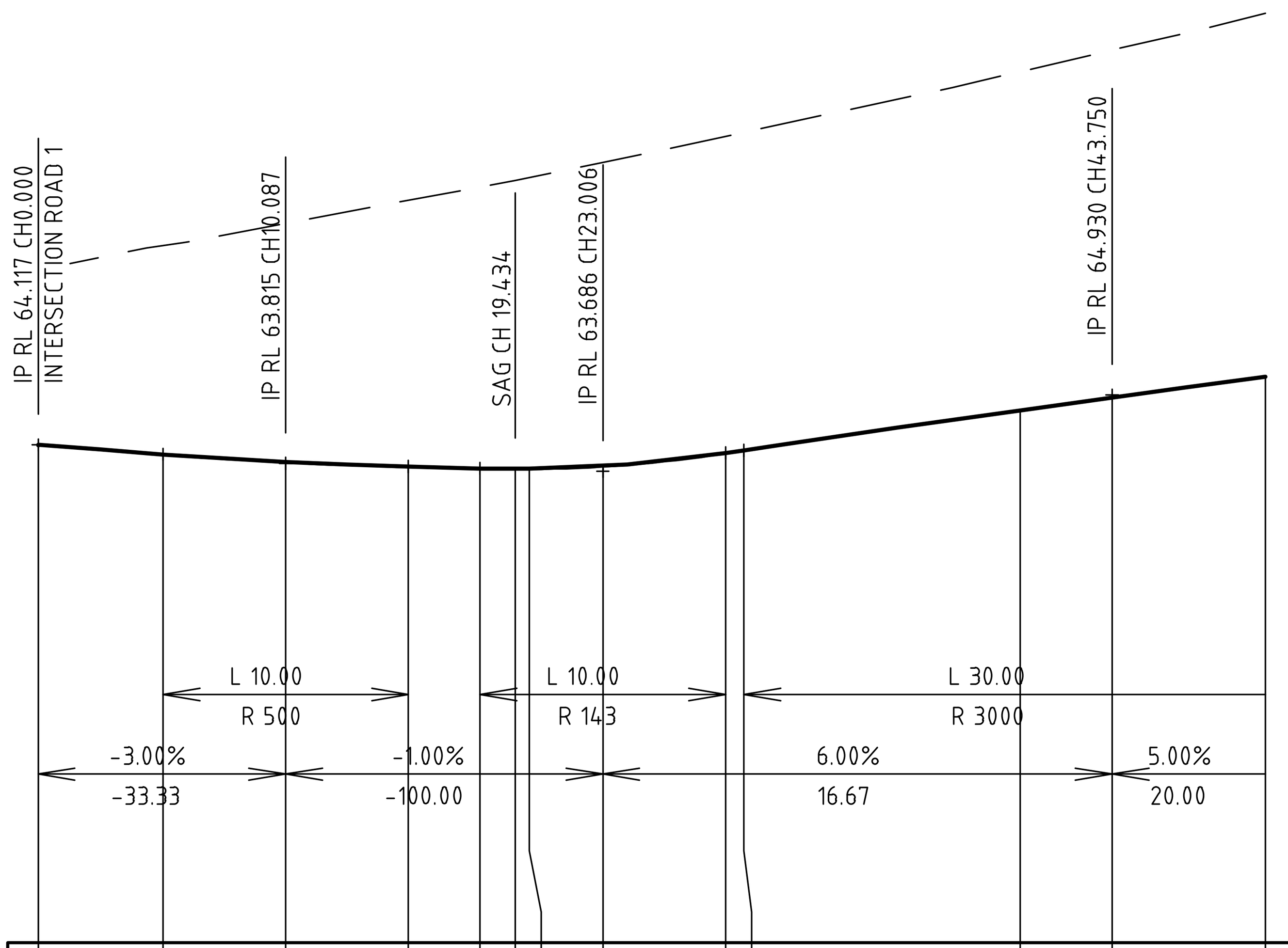
AMORY AT RIPLEY

Designed
Checked
Authorised
Date
DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 2 CROSS SECTIONS

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY
Drg No 320678-01C0307
Rev B



Vertical Curve Length (m) | Vertical Curve Radius (m) | Vertical Grade (%) | Vertical Grade (1 in ...)

Vertical curve / grade					
Vertical Curve Length (m)		L 10.00	L 10.00	L 30.00	
Vertical Curve Radius (m)		R 500	R 143	R 3000	
Vertical Grade (%)	-3.00%	-1.00%		6.00%	5.00%
Vertical Grade (1 in ...)	-33.33	-100.00		16.67	20.00

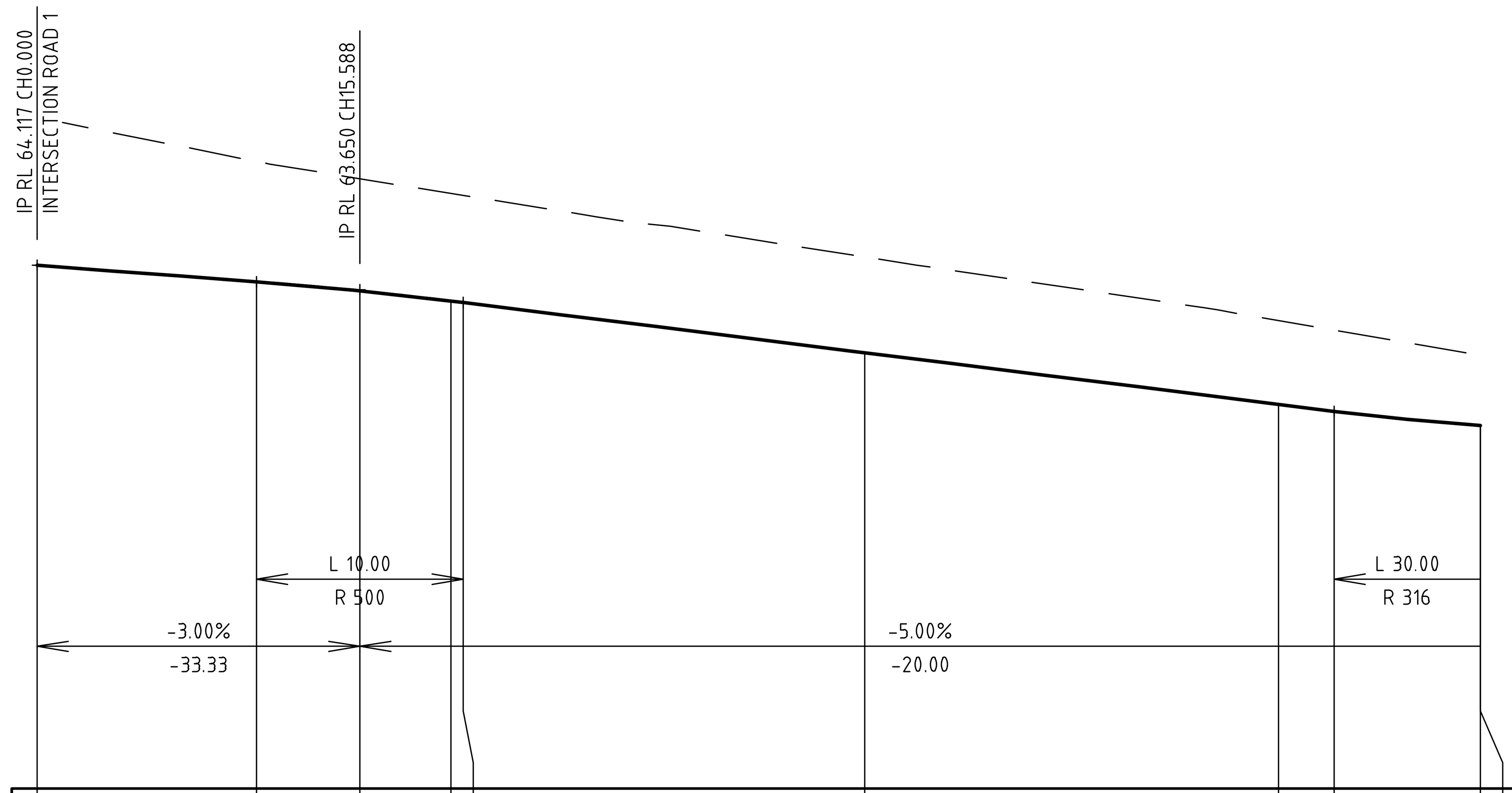
DATUM RL56.000

REFER TO DRAWING 320678-01C0312 & C0313 FOR INTERSECTION LEVELS

CHAINAGE	DESIGN LEVELS LEFT LIP OF KERB	DESIGN LEVELS RIGHT LIP OF KERB	CUT / FILL DEPTH	DESIGN LEVELS ON ROAD CL	EXISTING SURFACE ON ROAD CL
0.000			-2.857	64.117	66.975
5.087			-3.403	63.965	67.368
10.087			-3.892	63.840	67.732
15.087			-4.342	63.765	68.106
18.006		63.646	-4.589	63.736	68.325
19.434	63.639	63.639	-4.703	63.728	68.432
20.000	63.640	63.640	-4.748	63.730	68.478
23.006	63.684	63.684	-4.948	63.773	68.721
28.006	63.896	63.896	-5.166	63.986	69.152
28.750	63.941	63.941	-5.186	64.030	69.216
40.000	64.595	64.595	-5.521	64.684	70.205
43.750	64.804	64.804	-5.663	64.893	70.556
50.000	65.141	65.141	-5.929	65.230	71.159

LONGITUDINAL SECTION - ROAD 3

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100



Vertical curve / grade				
Vertical Curve Length (m)		L 10.00		L 30.00
Vertical Curve Radius (m)		R 500		R 316
Vertical Grade (%)	-3.00%		-5.00%	
Vertical Grade (1 in ...)	-33.33		-20.00	

DATUM RL54.000

REFER TO DRAWING 320678-01C0312 & C0313 FOR INTERSECTION LEVELS

CHAINAGE	DESIGN LEVELS LEFT LIP OF KERB	DESIGN LEVELS RIGHT LIP OF KERB	CUT / FILL DEPTH	DESIGN LEVELS ON ROAD CL	EXISTING SURFACE ON ROAD CL
0.000			-2.858	64.117	66.975
10.588			-2.325	63.800	66.125
15.588			-2.168	63.625	65.793
20.000	63.339	63.339	-2.080	63.429	65.508
20.588	63.310	63.310	-2.071	63.400	65.471
40.000	62.340	62.340	-1.850	62.429	64.279
60.000	61.340	61.340	-1.620	61.429	63.049
62.674	61.206	61.206	-1.568	61.295	62.864
69.751			-1.353	61.021	62.374
69.751			-1.353	61.021	62.374

LONGITUDINAL SECTION - ROAD 4

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100

CONTROL LINE - ROAD 3 - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	9953.419	37117.787	64.117	279°00'49.79"
	10.000	9943.542	37119.353	63.842	279°00'49.79"
	20.000	9933.666	37120.920	63.730	279°00'49.79"
	30.000	9923.789	37122.487	64.105	279°00'49.79"
	40.000	9913.913	37124.054	64.684	279°00'49.79"
	50.000	9904.036	37125.620	65.230	279°00'49.79"

CONTROL LINE - ROAD 4 - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	9953.413	37117.787	64.117	99°00'49.87"
	10.000	9963.289	37116.221	63.817	99°00'49.87"
	20.000	9973.166	37114.654	63.429	99°00'49.87"
	30.000	9983.042	37113.087	62.929	99°00'49.87"
	40.000	9992.919	37111.521	62.429	99°00'49.87"
	50.000	10002.795	37109.954	61.929	99°00'49.87"
	60.000	10012.672	37108.387	61.429	99°00'49.87"
TC	69.751	10022.302	37106.859	61.021	99°00'49.87"

file name 320678-01AC0308.dwg layout name C0308 plotted by Michael Bremner
file location C:\12dS\data\SpiireSYN\01A_29\Civil\ACAD plot date 23/02/2024 3:59 PM Sheet 5 of 9 Sheets

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1 : 250 — 0, 2.5, 5, 7.5, 10, 12.5
SCALE @ A1
V 1 : 100 — 0, 1, 2, 3, 4, 5

dlcs ISO 9001 certified ISO 45001 certified ISO 14001 certified
System Certified

spiire
Waterfront Place, level 9/1 Eagle St, Brisbane City Queensland 4000 Australia T 61 7 3522 3000
spiire.com.au ABN 55 050 029 635

AMORY AT RIPLEY

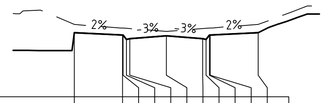
Designed | Checked
Authorised | Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 3 AND ROAD 4 LONGITUDINAL SECTION

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No **320678-01C0308** Rev **B**

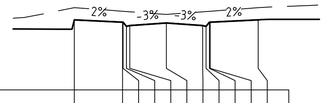
CENTRELINE DATA
E = 9908.481
N = 37124.915
Z = 64.989
Datum 63.00



DESIGN SURFACE	65.093	65.014	65.014	64.874	64.899	64.989	64.899	64.874	65.014	65.014	65.093
EXISTING SURFACE	65.360	65.242	65.241	65.233	65.224	65.135	65.224	65.233	65.241	65.242	65.360
DESIGN OFFSET	-7.500	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 45.500

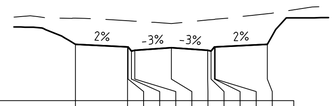
CENTRELINE DATA
E = 9913.913
N = 37124.054
Z = 64.684
Datum 62.50



DESIGN SURFACE	64.788	64.710	64.710	64.570	64.595	64.684	64.595	64.570	64.710	64.710	64.788
EXISTING SURFACE	65.184	65.067	65.065	65.057	65.049	64.959	65.049	65.057	65.065	65.067	65.184
DESIGN OFFSET	-7.500	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 40.000

CENTRELINE DATA
E = 9933.666
N = 37120.92
Z = 63.73
Datum 62.00

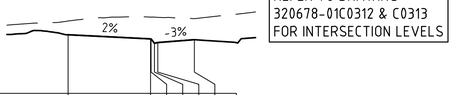


DESIGN SURFACE	63.841	63.755	63.755	63.615	63.640	63.730	63.640	63.615	63.755	63.755	63.841
EXISTING SURFACE	64.692	64.610	64.608	64.601	64.594	64.517	64.633	64.643	64.654	64.656	64.838
DESIGN OFFSET	-7.836	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.836

CH 20.000

CENTRELINE DATA
E = 9937.363
N = 37120.334
Z = 63.753
Datum 62.00

REFER TO DRAWING
320678-01C0312 & C0313
FOR INTERSECTION LEVELS



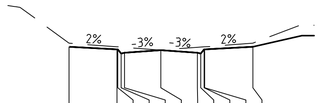
DESIGN SURFACE	63.913	63.779	63.779	63.639	63.664	63.753	
EXISTING SURFACE	64.365	64.495	64.495	64.490	64.486	64.442	
DESIGN OFFSET	-10.302	-3.575	-3.525	-3.250	-2.975	0.000	

CH 16.256

CROSS SECTIONS - ROAD 3 - CH0.000 TO CH45.500

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100

CENTRELINE DATA
E = 10012.672
N = 37108.387
Z = 61.429
Datum 59.50



DESIGN SURFACE	61.533	61.455	61.455	61.315	61.340	61.429	61.340	61.315	61.455	61.455	61.533
EXISTING SURFACE	61.654	61.536	61.535	61.527	61.518	61.429	61.518	61.527	61.535	61.536	61.654
DESIGN OFFSET	-7.500	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

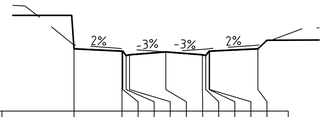
CH 60.000

CENTRELINE DATA
E = 9992.919
N = 37111.521
Z = 62.429
Datum 60.50

DESIGN SURFACE	62.533	62.455	62.455	62.315	62.340	62.429	62.340	62.315	62.455	62.455	62.533
EXISTING SURFACE	62.654	62.536	62.535	62.527	62.518	62.429	62.518	62.527	62.535	62.536	62.654
DESIGN OFFSET	-7.500	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 40.000

CENTRELINE DATA
E = 9973.166
N = 37114.654
Z = 63.429
Datum 61.50

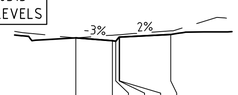


DESIGN SURFACE	63.533	63.454	63.454	63.314	63.339	63.429	63.339	63.314	63.454	63.454	63.533
EXISTING SURFACE	63.654	63.536	63.535	63.526	63.518	63.429	63.518	63.526	63.534	63.536	63.654
DESIGN OFFSET	-7.500	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500

CH 20.000

REFER TO DRAWING
320678-01C0312 & C0313
FOR INTERSECTION LEVELS

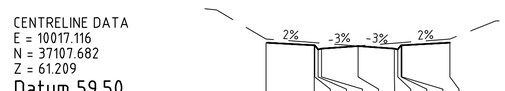
CENTRELINE DATA
E = 9969.321
N = 37115.264
Z = 63.604
Datum 61.50



DESIGN SURFACE	63.604	63.514	63.489	63.629	63.629	63.713	
EXISTING SURFACE	63.603	63.691	63.699	63.707	63.709	63.830	
DESIGN OFFSET	0.000	2.975	3.250	3.525	3.575	7.739	

CH 16.107

CENTRELINE DATA
E = 10017.116
N = 37107.682
Z = 61.209
Datum 59.50



DESIGN SURFACE	61.314	61.235	61.235	61.095	61.120	61.209	61.120	61.095	61.235	61.235	61.314	
EXISTING SURFACE	61.435	61.317	61.315	61.307	61.299	61.210	61.299	61.307	61.315	61.317	61.435	
DESIGN OFFSET	-7.500	-3.575	-3.525	-3.250	-2.975	0.000	2.975	3.250	3.525	3.575	7.500	

CH 64.500

CROSS SECTIONS - ROAD 4 - CH0.000 TO CH64.500

SCALE HORIZONTAL 1 : 250
VERTICAL 1 : 100

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:1000
SCALE @ A1
0 10 20 30 40 50

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AMORY AT RIPLEY

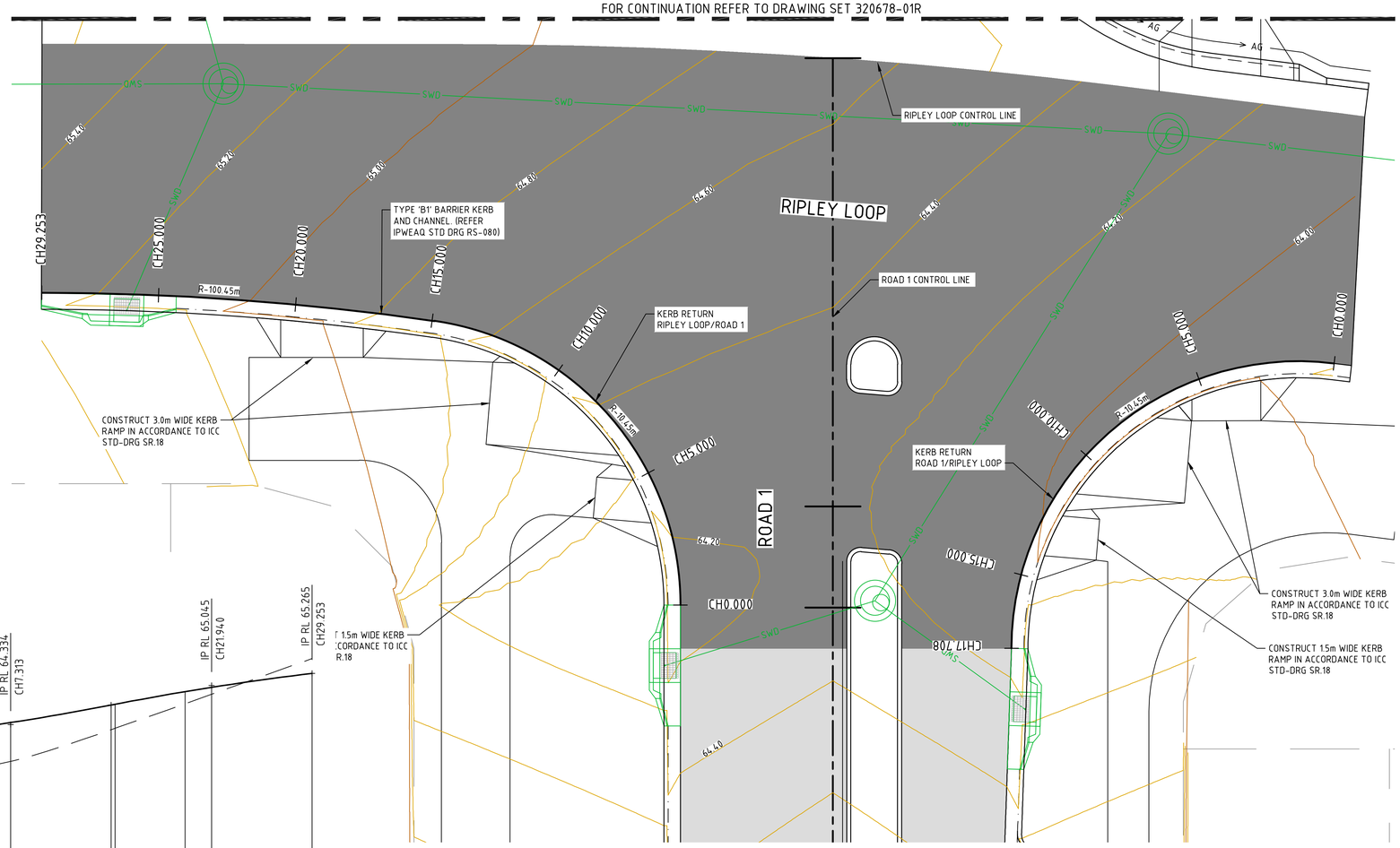
Designed
Checked
Authorised
Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 3 AND ROAD 4 CROSS SECTIONS

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY
Drg No 320678-01C0309
Rev B

FOR CONTINUATION REFER TO DRAWING SET 320678-01R



INTERSECTION DETAIL PLAN – RIPLEY LOOP/ROAD 1

SCALE 1:100

KERB RETURN RD1/RIPLEY LOOP – HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9970.819	37262.932	64.124	9°00'50.01"			
	5.000	9970.414	37267.868	64.285	341°35'58.72"			
IP 2	7.457	9972.237	37271.869	64.376		R = -10.450	14.915	81°46'31.49"
	10.000	9967.782	37272.063	64.479	314°11'07.42"			
CC	14.915	9963.595	37274.550	64.704	287°14'18.52"			
	15.000	9963.513	37274.575	64.708	287°11'23.50"			
	20.000	9958.702	37275.933	64.932	284°20'16.46"			
IP 3	22.084	9956.736	37276.678	65.017		R = -100.450	14.339	8°10'43.01"
	25.000	9953.829	37277.051	65.125	281°29'09.42"			
IP 4	29.253	9949.644	37277.809	65.265	279°03'35.51"			

KERB RETURN RIPLEY LOOP/RD1 – HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9995.695	37267.898	63.816	286°06'24.93"			
	5.000	9990.747	37268.106	63.927	258°41'33.63"			
IP 2	8.854	9984.328	37271.180	63.958		R = -10.450	17.708	97°05'34.92"
	10.000	9986.259	37266.011	63.964	231°16'42.34"			
	15.000	9983.239	37262.086	64.055	203°51'51.04"			
IP 3	17.708	9982.475	37259.496	64.150	189°00'50.01"			

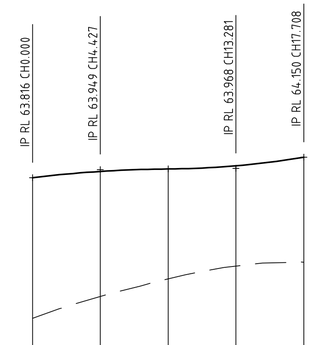
Vertical Curve Length (m) L 14.63 L 14.63
Vertical Curve Radius (m) R 737 R 786
Vertical Grade (%) 2.88% 4.86% 3.00%
Vertical Grade (1 in ...) 34.77 20.58 33.33

DATUM RL59.000

CHAINAGE	0.000	7.313	14.627	14.915	20.000	21.940	29.253
EXISTING SURFACE ON KERB LIP	63.412	63.663	64.241	64.266	64.712	64.885	65.535
DESIGN LEVELS ON KERB LIP	64.124	64.371	64.690	64.704	64.932	65.011	65.265
CUT / FILL DEPTH	0.712	0.708	0.449	0.438	0.220	0.126	-0.271

LONGITUDINAL SECTION – RD1/RIPLEY LOOP

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50



Vertical Curve Length (m) L 8.85 L 8.85
Vertical Curve Radius (m) R 317 R 226
Vertical Grade (%) 3.00% 0.21% 4.13%
Vertical Grade (1 in ...) 33.33 477.90 24.21

DATUM RL58.000

CHAINAGE	0.000	4.427	8.854	13.281	17.708
EXISTING SURFACE ON KERB LIP	61.523	61.879	62.168	62.379	62.437
DESIGN LEVELS ON KERB LIP	63.816	63.918	63.958	64.011	64.150
CUT / FILL DEPTH	2.293	2.039	1.791	1.632	1.713

LONGITUDINAL SECTION – RIPLEY LOOP/RD1

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50

WARNING

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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
DETAIL PLAN H 1:100 SCALE @ A1 0 1 2 3 4 5
LONGITUDINAL SECTION H 1:200 V 1:50 SCALE @ A1 0 2 4 6 8 10 / 0 0.5 1 1.5 2 2.5

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AMORY AT RIPLEY

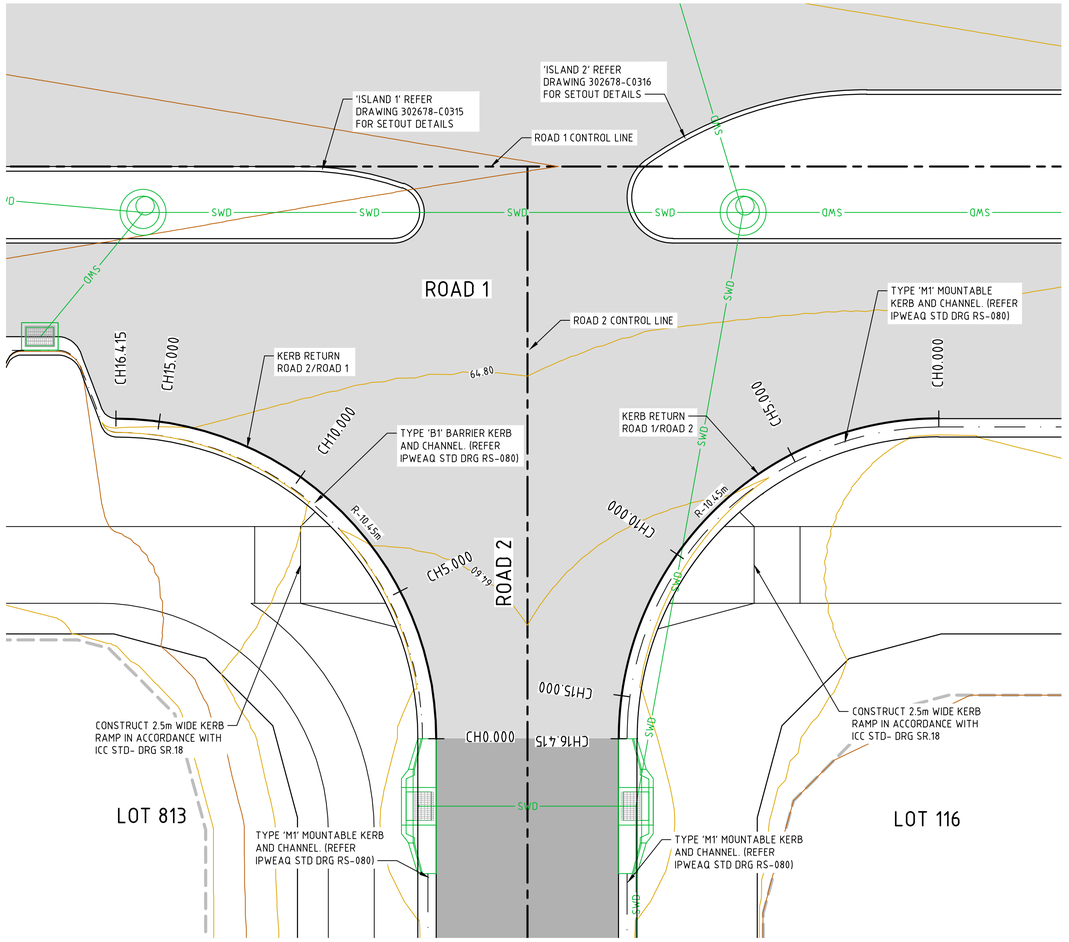
Designed Checked
Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
RIPLEY LOOP/ROAD 1 INTERSECTION DETAIL

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

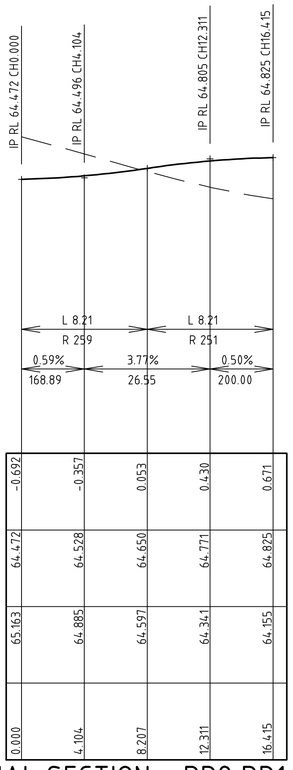
PRELIMINARY Drg No 320678-01C0310 Rev B

file name 320678-01AC0310.dwg Layout name C0310 plotted by Michael Brenner
file location C:\12d\S\data\Spiire\SYN\01A_29\Civil\ACAD plot date 29/02/2024 3:59 PM Sheet # of # Sheets



INTERSECTION DETAIL PLAN - ROAD 1/ROAD 2

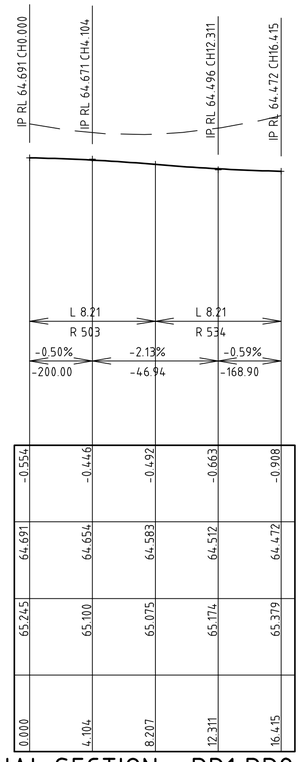
SCALE 1:100



Vertical Curve Length (m)		L 8.21	L 8.21	
Vertical Curve Radius (m)		R 259	R 251	
Vertical Grade (%)		0.59%	3.77%	0.50%
Vertical Grade (1 in ...)		168.89	26.55	200.00
DATUM RL60.000				
CUT / FILL DEPTH	-0.692	-0.357	0.053	0.430	0.671
DESIGN LEVELS ON KERB LIP	64.472	64.528	64.650	64.771	64.825
EXISTING SURFACE ON KERB LIP	65.163	64.885	64.597	64.341	64.155
CHAINAGE	0.000	4.104	8.207	12.311	16.415

LONGITUDINAL SECTION - RD2 RD1

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50



Vertical Curve Length (m)		L 8.21	L 8.21	
Vertical Curve Radius (m)		R 503	R 534	
Vertical Grade (%)		-0.50%	-2.13%	-0.59%
Vertical Grade (1 in ...)		-200.00	-46.94	-168.90
DATUM RL60.000				
CUT / FILL DEPTH	-0.554	-0.446	-0.492	-0.663	-0.908
DESIGN LEVELS ON ROAD CL	64.691	64.654	64.583	64.512	64.472
EXISTING SURFACE ON ROAD CL	65.245	65.100	65.075	65.174	65.379
CHAINAGE	0.000	4.104	8.207	12.311	16.415

LONGITUDINAL SECTION - RD1 RD2

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50

KERB RETURN - RD2 RD1 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9947.499	37199.701	64.472	99°00'49.57"			
	5.000	9952.435	37200.106	64.549	71°35'58.27"			
IP 2	8.207	9957.820	37198.063	64.650		R = -10.450	16.415	89°59'59.55"
	10.000	9956.630	37202.738	64.711	44°11'06.98"			
	15.000	9959.142	37207.006	64.814	16°46'15.68"			
IP 3	16.415	9959.457	37208.384	64.825	9°00'50.01"			

KERB RETURN - RD1 RD2 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9955.251	37181.866	64.691	9°00'50.01"			
	5.000	9954.846	37186.802	64.641	341°35'58.72"			
IP 2	8.207	9956.888	37192.187	64.583		R = -10.450	16.415	90°00'00.45"
	10.000	9952.213	37190.997	64.548	314°11'07.42"			
	15.000	9947.945	37193.509	64.482	286°46'16.13"			
IP 3	16.415	9946.567	37193.824	64.472	279°00'49.57"			

WARNING

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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
DETAIL PLAN
H 1:100 SCALE @ A1 0 1 2 3 4 5
LONGITUDINAL SECTION
H 1 : 200 SCALE @ A1 0 2 4 6 8 10
V 1 : 50 0 0.5 1 1.5 2 2.5

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AMORY AT RIPLEY

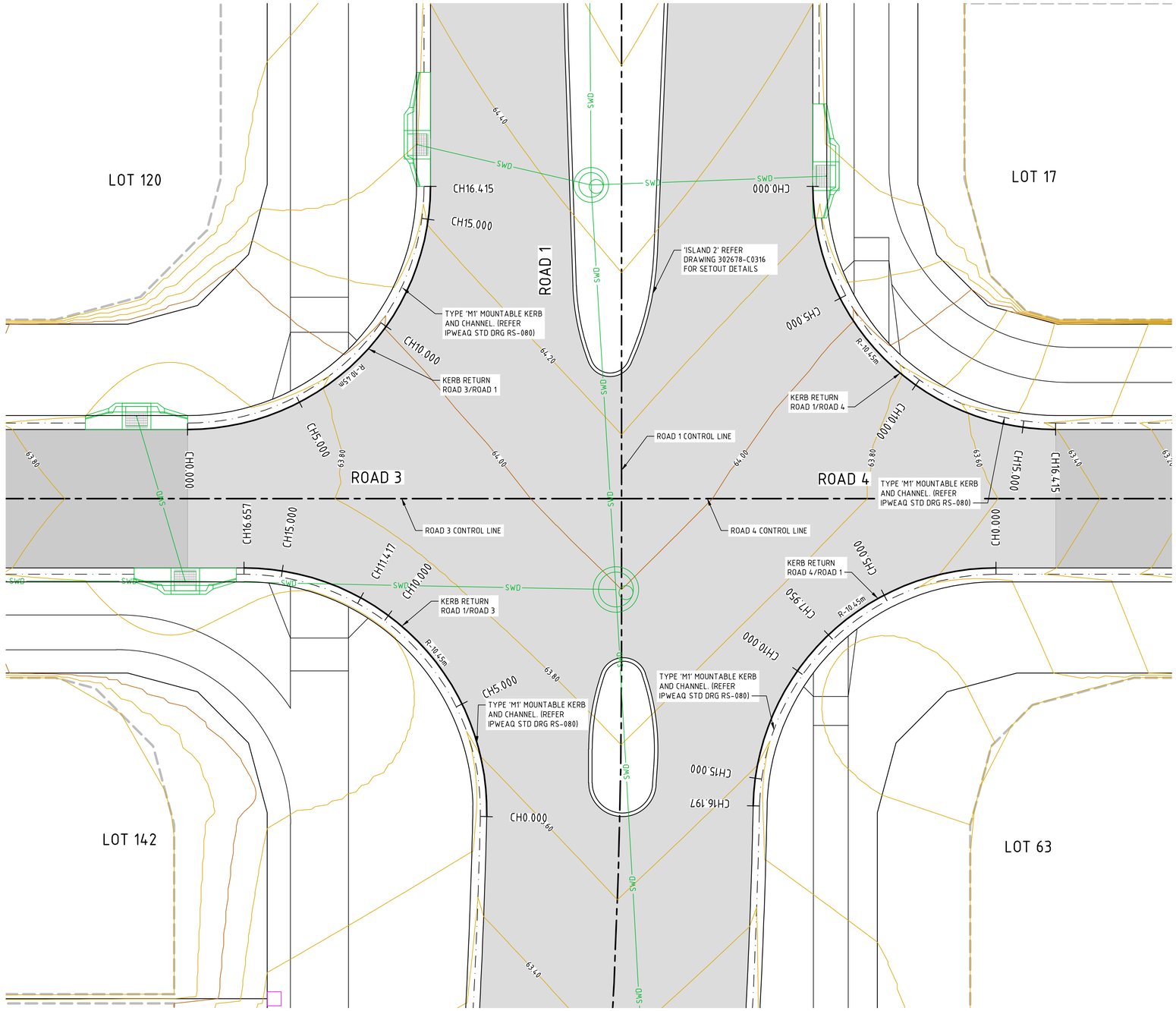
Designed Checked
Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 1/ROAD 2 INTERSECTION DETAIL

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No **320678-01C0311** Rev **B**

file name 320678-01AC0311.dwg layout name C0311 plotted by Michael Bremner
file location C:\12d\SydneyNW\Data_SYN\Civil\ACAD plot date 23/02/2024, 3:59 PM Sheet 3 of 9 Sheets



INTERSECTION DETAIL PLAN – ROAD 1/ROAD 3/ROAD4

SCALE 1:100

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

H 1:100
SCALE @ A1

0 1 2 3 4 5

dlca ISO 9001 certified ISO 45001 certified ISO 14001 certified

System Certified

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AMORY AT RIPLEY

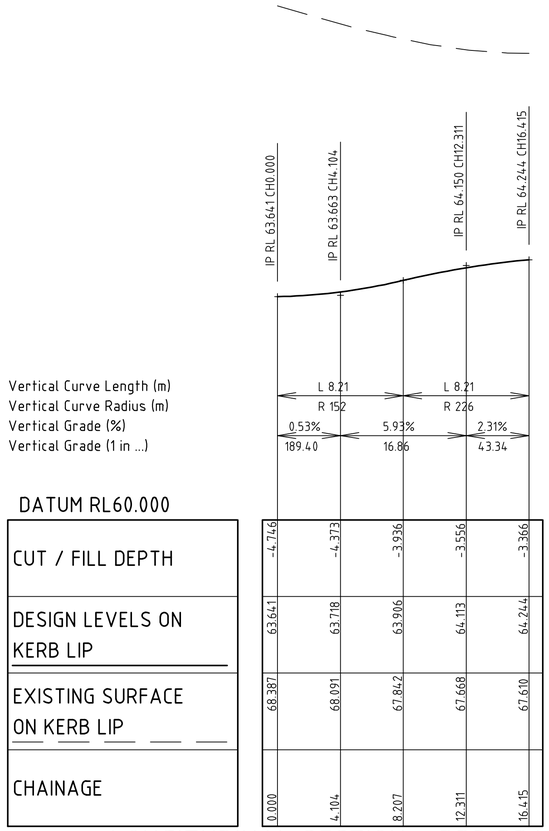
Designed Checked

Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
ROAD 1/ROAD 3 AND 4 INTERSECTION DETAIL
SHEET 1 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

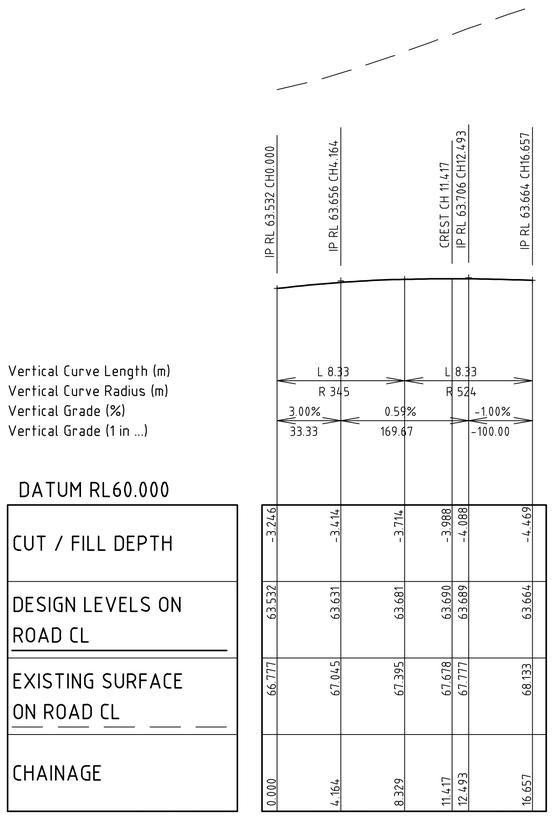
PRELIMINARY Drg No 320678-01C0312 Rev B

file name=320678_01AC0312.dwg layout name=C0312 plotted by Michael Bremner
file location=C:\12dSYS\data\Spiire\SYN\01a_25\Civil\ACAD plot date=29/02/2024 3:59 PM Sheet # of # Sheets



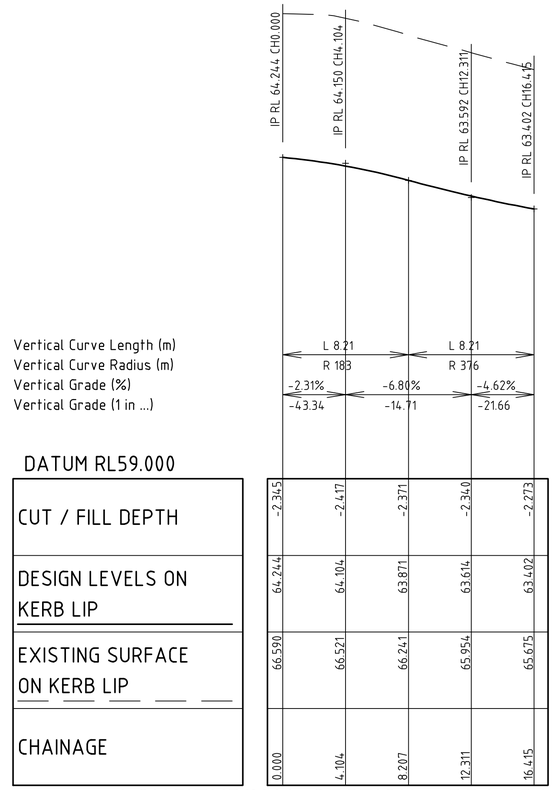
LONGITUDINAL SECTION - RD3 RD1

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50



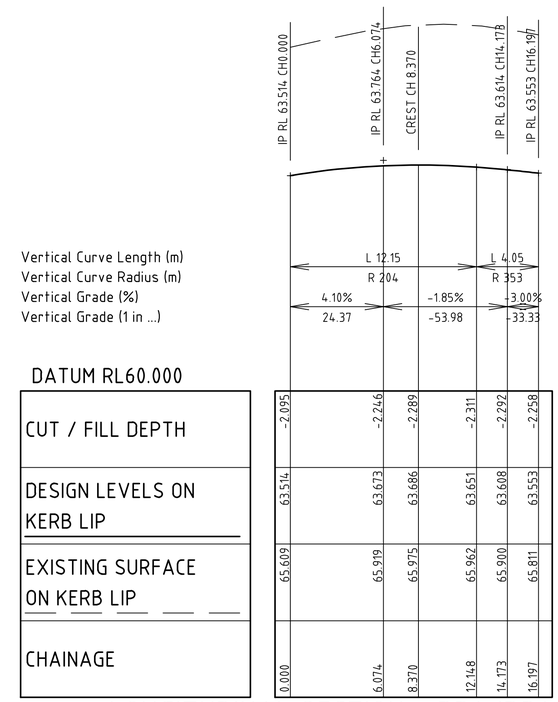
LONGITUDINAL SECTION - RD1 RD3

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD1 RD4

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD4/RD1

SCALE HORIZONTAL 1 : 200
VERTICAL 1 : 50

KERB RETURN - RD3 RD1 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9935.435	37123.652	63.641	99°00'49.79"			
	5.000	9940.371	37124.057	63.750	71°35'58.50"			
IP 2	8.207	9945.756	37122.014	63.906		R = -10.450	16.415	89°59'59.78"
	10.000	9944.566	37126.689	64.006	44°11'07.20"			
	15.000	9947.078	37130.957	64.207	16°46'15.91"			
IP 3	16.415	9947.394	37132.335	64.244	9°00'50.01"			

KERB RETURN - RD1 RD4 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9963.640	37129.758	64.244	189°00'50.01"			
	5.000	9964.046	37124.822	64.061	161°35'58.72"			
IP 2	8.207	9962.003	37119.437	63.871		R = -10.450	16.415	90°00'00.14"
	10.000	9966.678	37120.627	63.753	134°11'07.42"			
	15.000	9970.946	37118.115	63.470	106°46'16.13"			
IP 3	16.415	9972.324	37117.800	63.402	99°00'49.87"			

KERB RETURN - RD1 RD3 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9945.540	37105.198	63.532	10°20'35.69"			
	5.000	9945.249	37110.142	63.645	342°55'44.40"			
IP 2	8.329	9947.460	37115.720	63.681		R = -10.450	16.657	91°19'45.90"
	10.000	9942.715	37114.397	63.688	315°30'53.10"			
	15.000	9938.506	37117.007	63.678	288°06'01.81"			
IP 3	16.657	9936.897	37117.395	63.664	279°00'49.79"			

KERB RETURN - RD4 RD1 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9968.855	37112.326	63.514	279°00'49.87"			
	5.000	9963.919	37111.920	63.658	251°35'58.58"			
IP 2	8.099	9958.747	37113.929	63.686		R = -10.450	16.197	88°48'23.92"
	10.000	9959.724	37109.288	63.680	224°11'07.28"			
	15.000	9957.212	37105.020	63.587	196°46'15.99"			
IP 3	16.197	9956.933	37103.857	63.553	190°12'25.96"			

WARNING

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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
LONGITUDINAL SECTION
H 1 : 200
SCALE @ A1
V 1 : 50
0 2 4 6 8 10
0 0.5 1 1.5 2 2.5

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AMORY AT RIPLEY

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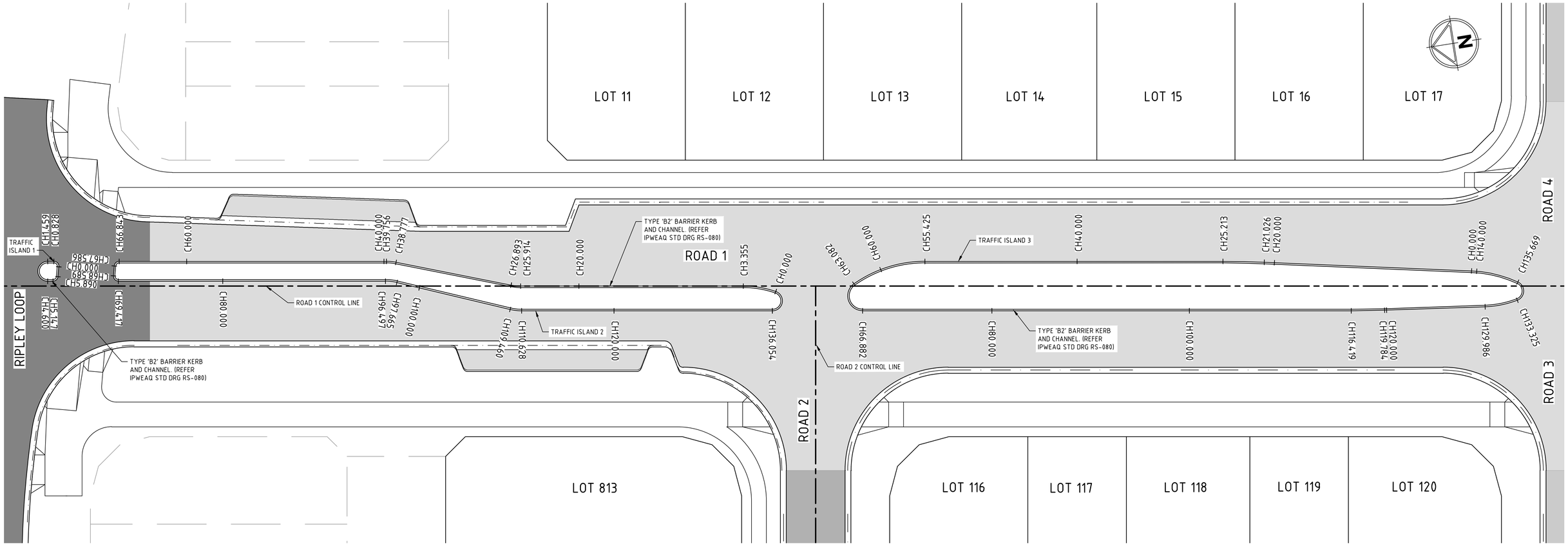
AMORY AT RIPLEY
STAGE 01
ROAD 1/ROAD 3 AND 4 INTERSECTION DETAIL
SHEET 2 OF 2
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0313 Rev B

file name 320678-01C0313.dwg layout name C0313 plotted by Michael Brennan
file location C:\12RS\data\Spiire\SYN\01A_29\Civil\ACAD plot date 23/02/2024 3:59 PM Sheet 3 of 9 Sheets



TRAFFIC ISLAND 1, 2 & 3 DETAIL PLAN

SCALE 1:200

ISLAND 1 SETOUT - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9979.430	37269.295	64.252	103°50'25.63"			
IP 2	0.414	9979.958	37269.165	64.248		R = -0.500	0.828	94°49'35.56"
CT	0.828	9980.043	37269.702	64.251	9°00'50.07"			
TC	1.459	9980.142	37270.325	64.267	9°00'50.07"			
IP 3	2.244	9980.299	37271.313	64.296		R = -1.000	1.571	90°00'00.00"
CT	3.029	9979.311	37271.470	64.323	279°00'50.07"			
IP 4	3.815	9978.324	37271.626	64.333		R = -1.000	1.571	90°00'00.00"
CT	4.600	9978.167	37270.639	64.324	189°00'50.07"			
TC	5.147	9978.081	37270.099	64.308	189°00'50.07"			
IP 5	5.518	9978.009	37269.645	64.295		R = -0.500	0.743	85°10'24.44"
CT	5.890	9978.455	37269.535	64.282	103°50'25.63"			
IP 6	6.894	9979.430	37269.295	64.252	103°50'25.63"			

ISLAND 2 SETOUT - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9965.562	37197.920	65.008	28°14'26.56"			
IP 2	1.677	9966.364	37199.412	65.027		R = -9.995	3.355	19°13'58.75"
IP 3	3.355	9966.629	37201.084	65.042				
TC	25.914	9970.162	37223.365	65.155	9°00'36.21"			
IP 4	26.403	9970.239	37223.850	65.156		R = 5.000	0.979	11°12'50.84"
CT	26.893	9970.408	37224.311	65.157	20°13'27.05"			
TC	38.777	9974.517	37235.462	65.083	20°13'27.05"			
IP 5	39.266	9974.686	37235.923	65.077		R = -5.000	0.979	11°12'46.51"
CT	39.756	9974.763	37236.408	65.070	9°00'40.53"			
IP 6	66.843	9979.006	37263.160	64.183				
IP 7	67.214	9979.078	37263.614	64.185		R = -0.500	0.743	85°10'14.04"
CT	67.586	9978.632	37263.724	64.189	283°50'25.63"			
TC	68.589	9977.657	37263.964	64.217	283°50'25.63"			
IP 8	69.003	9977.129	37264.094	64.230		R = -0.500	0.828	94°49'45.96"
CT	69.417	9977.044	37263.557	64.241	189°00'39.67"			
TC	96.497	9972.802	37236.811	65.129	189°00'39.67"			
IP 9	97.081	9972.711	37236.232	65.137		R = 5.000	1.168	13°23'04.93"
CT	97.665	9972.487	37235.690	65.146	202°23'44.60"			
TC	109.460	9967.993	37224.784	65.089	202°23'44.60"			
IP 10	110.044	9967.770	37224.242	65.083		R = -5.000	1.168	13°22'54.53"
CT	110.628	9967.678	37223.662	65.079	189°00'50.07"			
TC	136.054	9963.694	37198.550	64.947	189°00'50.07"			
IP 11	136.755	9963.562	37197.716	64.951		R = -1.000	1.403	80°22'24.07"
CC	137.456	9964.362	37197.446	64.969	108°38'26.01"			
IP 12	138.158	9965.162	37197.176	64.990		R = -1.000	1.403	80°22'24.07"
IP 13	138.859	9965.562	37197.920	65.008	28°16'01.94"			

ISLAND 3 SETOUT - HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9956.579	37127.939	64.374	11°24'32.43"			
TC	21.026	9960.739	37148.549	64.700	11°24'32.43"			
IP 2	23.120	9961.153	37150.602	64.712		R = -100.000	4.188	2°23'57.66"
CT	25.213	9961.481	37152.670	64.724	9°00'34.76"			
IP 3	55.425	9966.212	37182.509	64.875				
IP 4	59.253	9966.831	37186.413	64.912		R = -12.500	7.657	35°05'48.49"
CC	63.082	9965.093	37189.963	64.979	333°55'01.58"			
IP 5	64.032	9964.609	37190.953	64.970		R = -1.500	1.900	72°34'58.89"
CC	64.982	9963.520	37190.787	64.938	261°20'02.70"			
IP 6	65.932	9962.431	37190.621	64.910		R = -1.500	1.900	72°34'58.89"
IP 7	66.882	9962.263	37189.532	64.896				
TC	116.419	9954.506	3714.0.607	64.595	189°00'36.21"			
IP 8	118.102	9954.242	37138.944	64.567		R = -100.000	3.366	1°55'42.10"
CT	119.784	9954.035	37137.274	64.540	187°04'54.11"			
TC	129.986	9952.777	37127.150	64.321	187°04'54.11"			
IP 9	131.656	9952.569	37125.478	64.282		R = -10.000	3.339	19°08'01.43"
CC	133.325	9952.921	37123.830	64.248	167°56'52.68"			
IP 10	133.911	9953.060	37123.181	64.249		R = -1.000	1.172	67°08'48.68"
CC	134.497	9953.712	37123.056	64.260	100°48'04.00"			
IP 11	135.083	9954.364	37122.932	64.277		R = -1.000	1.172	67°08'48.68"
CC	135.669	9954.731	37123.484	64.278	33°39'15.32"			
IP 12	138.096	9956.093	37125.530	64.321		R = -12.500	4.853	22°14'42.89"
IP 13	140.522	9956.579	37127.939	64.374	11°24'32.43"			

WARNING

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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:200
SCALE @ A1
0 2 4 6 8 10

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AMORY AT RIPLEY

Designed Checked

Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
TRAFFIC ISLAND SETOUT DETAILS

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0314 Rev B

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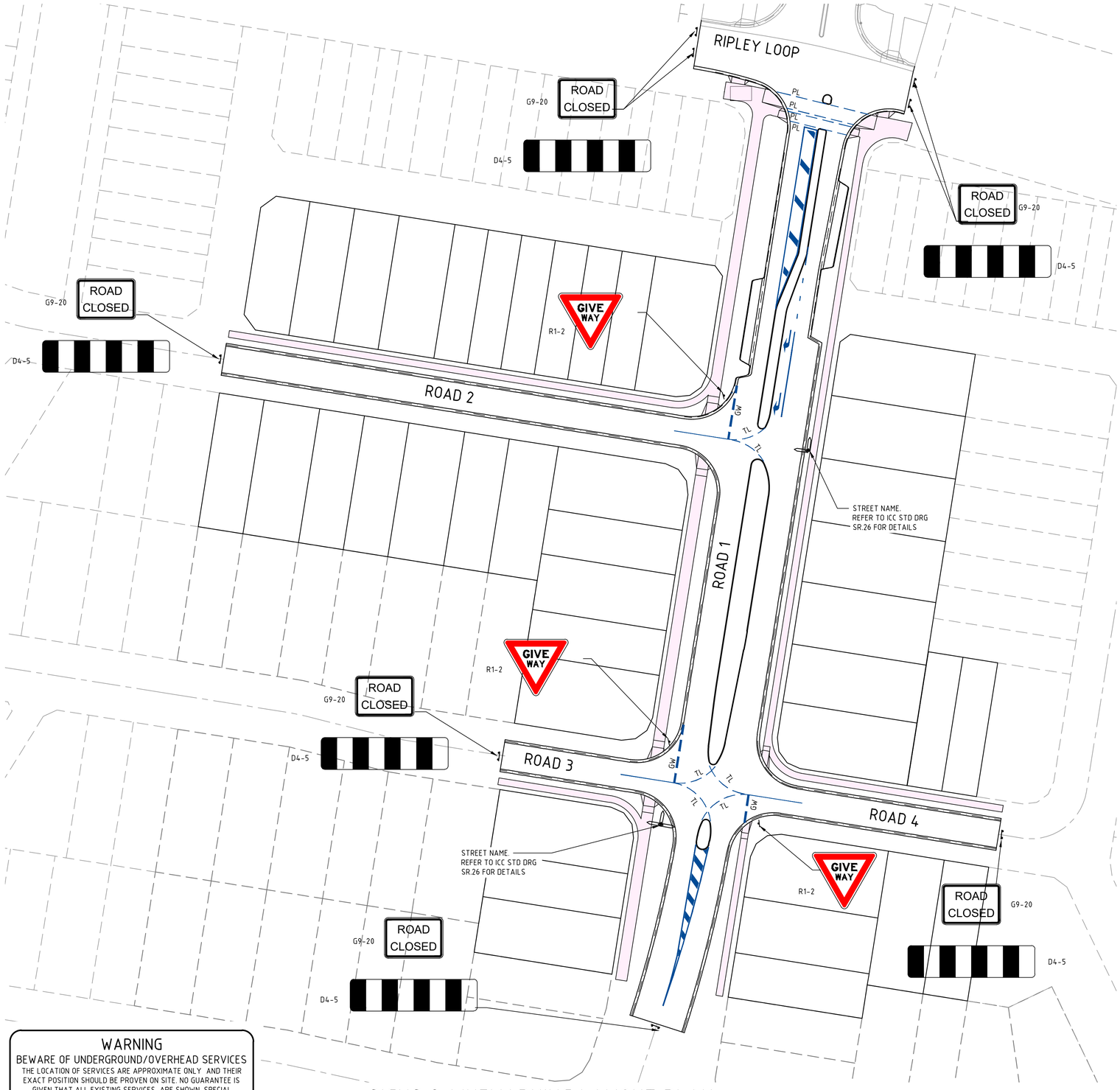
file location=C:\12dSData\Spiire\SYNC\01_Jobs\320678_29\Civil\ACAD plot date=23/02/2024 3:59 PM Sheet # of # Sheets



N

NOTES

1. T.G.S.I's TO BE PROVIDED FOR ALL KERB RAMPS AT SIGNALISED INTERSECTION, REFER TO ICC STD DWG SR.18 FOR DETAILS.
2. ALL PAVEMENT MARKINGS AND SIGNAGE TO BE IN ACCORDANCE WITH TMR AND AS1742 MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
3. FOR SIGNAGE AND ASSEMBLY DETAILS REFER TMR MANUAL OF UNIFORM CONTROL DEVICES.
4. EXISTING PAVEMENT MARKING ARE TO BE REMOVED BY GRINDING.
5. LINEMARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.

LINEMARKING LEGEND:

SYMBOL:	DESCRIPTION:	REMARK:
	DIAGONAL AND CHEVRON MARKINGS	AS1742.2 CLAUSE 5.6
	SINGLE CONTINUOUS LANE LINE	CONTINUOUS LINE, 100mm WIDE. AS1742.2 CLAUSE 5.3
CL1	CONTINUITY LINE	1m LINE, 3m GAP, 150mm WIDE. AS1742.2 CLAUSE 5.3
SL	STOP LINE	CONTINUOUS LINE, 450mm WIDE. AS1742.2 CLAUSE 5.5 & AS1742.14 CLAUSE 6.2.1
TL	TURN LINE	600mm LINE, 600mm GAP, 100mm WIDE. AS1742.2 CLAUSE 5.3 & AS1742.14 CLAUSE 6.2.4
PL	PEDESTRIAN GUIDE LINE	1m LINE 300mm GAP, 150mm WIDE. AS1742.2 CLAUSE 5.5 & AS1742.14 CLAUSE 6.2.3
GW	GIVE WAY LINE	600mm LINE, 600mm GAP, 450mm WIDE. AS1742.2 CLAUSE 5.5
	INTERSECTION ARROW	AS1742.2 CLAUSE 5.7 & AS1742.14 CLAUSE 6.2.2
	LINEMARKING TO BE REMOVED	
	BICYCLE LANE GREEN PAINTED SURFACE	SECTION 6.6-1, PART 10, TRUM MANUAL VOL. 1. APPROVED COLOUR EMERALD GREEN G13
	BICYCLE SYMBOL (ROAD)	AS1742.2 CLAUSE 5.8 FIGURE 5.41
	BICYCLE SYMBOLS (PATH)	AS1742.2 CLAUSE 5.8 FIGURE 5.44
DLP	SINGLE BROKEN DIVIDING LINE - PATH	1m LINE, 3m GAP, 100mm WIDE. AS1742.2 CLAUSE 5.3

WARNING

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SIGNS & LINEMARKING LAYOUT PLAN

SCALE 1:500

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:500
SCALE @ A1
0 5 10 15 20 25

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AMORY
AT RIPLEY

Designed
Checked
Authorised
Date
DECEMBER 23

AMORY AT RIPLEY
STAGE 01
SIGNAGE & LINEMARKING LAYOUT PLAN

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

Drg No 320678-01C0400
Rev B

file name 320678-01AC0400.dwg layout name C0400 plotted by Michael Bremner
file location C:\Vault\Data\Spiire\SYN\01A_29\Civil\ACAD plot date 23/02/2024 4:00 PM Sheet # of # Sheets

STORMWATER DRAINAGE NOTES:

1. ALL DRAINAGE MATERIALS, EXCAVATION AND CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND DETAILS AND THE FOLLOWING PUBLICATIONS (AS APPLIES TO THE TYPE OF PIPELINE):-
- CONCRETE PIPE ASSOCIATION OF AUSTRALIA TECHNICAL ADVISORY PUBLICATIONS
- AS 3725 "DESIGN FOR THE INSTALLATION OF BURIED CONCRETE PIPES"
- AS 4058 "PRE-CAST CONCRETE PIPES (PRESSURE AND NON-PRESSURE)
- AS 4139 "FIBRE REINFORCED CONCRETE PIPES AND FITTINGS"
- AS 2566 "BURIED FLEXIBLE PIPELINES"
- AS 3500 "NATIONAL PLUMBING CODE"
- AS 1254 "PVC PIPES AND FITTINGS FOR STORM & SURFACE WATER APPLICATIONS"
- AS 1273 "UNPLASTICIZED PVC (uPVC) DOWNPIPE AND FITTINGS FOR RAINWATER

2. WHERE THE DEPTH OF FILL OVER THE PIPE IS BETWEEN Min. 600mm AND Max. 1.5m HIGH:-
- ALL uPVC PIPES SHALL BE CLASS "SN8" FOR 150Ø - 225Ø AND "SN6" FOR 100Ø
- ALL CONCRETE PIPES SHALL BE MINIMUM CLASS "2".

SHOULD THE DEPTH OF COVER OVER THE PIPE BE OUTSIDE THE ABOVE MAXIMUM AND MINIMUM LIMITS, OR ANY LOADING OTHER THAN NORMAL EARTH LOADS BE APPLICABLE (INCLUDING CONSTRUCTION TRAFFIC LOADS) THE DESIGN ENGINEER MUST BE CONTACTED FOR SPECIFIC DESIGN OF PIPE CLASS.

3. UNLESS DETAILED OTHERWISE PIPE CLASSES SPECIFIED ON PROJECT DRAWINGS ARE BASED ON SINGLE PIPE BARREL ONLY - WHERE MULTIPLE PIPE BARRELS ARE PROPOSED THE PIPE CLASS MUST BE REFERRED TO THE DESIGN ENGINEER FOR CONFIRMATION.
4. UNLESS SPECIFIED OTHERWISE DESIGN LOADING ON ALL PIPELINES REQUIRE "TRENCH" TYPE BEDDING AND BACKFILL INSTALLATION IN ACCORDANCE WITH AS 3725. "EMBANKMENT" TYPE INSTALLATION WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL. STABILITY OF TRENCH BASE AND SIDES MUST BE ADEQUATE TO PROVIDE REQUIRED SUPPORT TO THE BEDDING, HAUNCH AND SIDES OF THE TRENCH - IF ANY DOUBT EXISTS THE CONTRACTOR MUST OBTAIN GEOTECHNICAL CONSULTANT CONFIRMATION.
5. THE WIDTH OF TRENCH OUTSIDE THE PIPE SHALL BE IN ACCORDANCE WITH AS 3725 (NOMINAL 300mm Max.). ANY FURTHER WIDENING OF THE TRENCH WILL INCREASE LOAD ONTO PIPE, AND WILL REQUIRE REVIEW OF PIPE CLASS AND INSTALLATION SPECIFICATIONS. ANY ADDITIONAL ASSOCIATED PIPE OR SUPPORT COSTS WILL BE AT CONTRACTOR'S EXPENSE.
6. UNLESS SPECIFIED OTHERWISE PIPE BEDDING AND SUPPORT SHALL BE INSTALLED IN ACCORDANCE WITH AS 3725 AND SHALL BE GENERALLY AS FOLLOWS:-
- "HS2" UNDER ROADWAYS
- "H2" UNDER NON-TRAFFIC / NON-LOADED AREAS

ANY CIRCUMSTANCES OUTSIDE THESE MUST BE REFERRED TO THE DESIGN ENGINEER FOR PIPE SUPPORT SPECIFICATIONS.

7. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC LOADING ONTO PIPELINES IS LIMITED TO MAXIMUM VEHICLE LOADINGS AND ACHIEVES BACKFILL COVER IN ACCORDANCE WITH AS 3725 (OR ALTERNATIVELY PROVIDE ADEQUATE TEMPORARY AND PERMANENT BRIDGING). REFER C.P.A.A. PIPE CLASS SELECTION CRITERIA / SOFTWARE FOR ACCEPTABLE LOADING APPLICATIONS.
8. ANY DRAINLINE BEING INSTALLED WITH ANY PORTION OF THE DRAINLINE BELOW THE MAXIMUM TIDAL LEVEL SHALL HAVE SALTWATER EXPOSURE COVER CLASS PIPES OR CULVERTS INSTALLED. FOR ANY DEVELOPMENT WITHIN 1 KILOMETRE OF THE COASTLINE, OR WITH PIPEWORK THE HIGHEST ASTRONAMICAL TIDE (H.A.T.) THE CONTRACTOR MUST VERIFY THIS REQUIREMENT WITH THE SUPERVISING ENGINEER.
9. WHERE DRAINLINES ARE TO BE INSTALLED IN "AGGRESSIVE" PERMEABLE SOILS AS DEFINED IN AS 3600, OR ACID SULPHATE SOILS (pH <4.0) THEY MUST BE REFERRED TO THE SUPERVISING ENGINEER FOR REVIEW OF PIPE / EXPOSURE COVER CLASS. THE CONTRACTOR SHALL VERIFY SOIL CONDITION (BY TESTING) AND UNDERTAKE SOIL REMEDIATION TREATMENT (WHERE REQUIRED) PRIOR TO DRAINLINE CONSTRUCTION.
10. MINIMUM AND MAXIMUM PIPE GRADES SHALL BE IN ACCORDANCE WITH Q.U.D.M. SPECIFICATIONS. (N.B. 150Ø=1% Min. AND 375Ø=0.4% Min.)
11. ANY PIPE DOWNSTREAM OF INLETS CAPTURING GROUND RUNOFF SHALL BE Min. 150Ø.
12. WHERE PIPES AND STRUCTURES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL ELEMENTS (e.g. BUILDING FOOTINGS, RETAINING WALLS . . . etc.) THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION TO ENSURE NO UNDUE LOADING ONTO STORMWATER PIPES AND STRUCTURES. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE AND THE STORMWATER DESIGN ENGINEER.
13. CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO CONSTRUCTING DRAINLINES. ANY CONFLICT SHALL BE REFERRED TO THE SUPERINTENDENT FOR RE-DESIGN PRIOR TO ANY PIPELINE CONSTRUCTION.
14. BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
15. WHERE RECTANGULAR PITS OR STRUCTURES ARE CONSTRUCTED, PIPES MUST NOT CONNECT INTO THE STRUCTURE AT CORNERS.
16. ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT WORKPLACE HEALTH AND SAFETY ACT INCLUDING AMENDMENTS SUBSEQUENT TO THE ORIGINAL PUBLICATION.
17. BASE AND SHAFT OF ALL STORMWATER STRUCTURES SHALL BE "CAST IN-SITU" CONCRETE UNLESS OTHERWISE APPROVED IN WRITING BY THE SUPERVISING ENGINEER.
18. ALL GRATED INLETS SHALL BE MINIMUM "CLASS D" TRAFFICABLE, AND SHALL BE BOLTED DOWN UNLESS OTHERWISE APPROVED BY THE SUPERVISING ENGINEER.
19. WHERE A BRANCH CONNECTION IS INDICATED DIRECTLY ONTO THE RECEIVING PIPELINE (I.E. WITHOUT JUNCTION PIT) - A PROPRIETORY OBLIQUE BRANCH FITTING SHALL BE INSTALLED ONTO RECEIVING PIPELINE SIZE UP TO 300MM, OR APPROVED SADDLE BRANCH INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER SPECIFICATIONS FOR PIPES FOR RECEIVING PIPELINE SIZE 375MM OR GREATER. THE MAXIMUM SIZE OF THE CONNECTING BRANCH LINE (WITHOUT JUNCTION PIT) SHALL BE 150MM U.N.O.
20. ALL PIPED OUTLETS AND INLETS MUST BE PROVIDED WITH CEMENT GROUTED STONE PITCHING SCOUR PROTECTION IN ACCORDANCE WITH IPWEA STANDARD DRAWING NUMBER D-0081. ALL VOIDS BETWEEN STONES MUST BE CEMENT GROUTED - NO SHALL NOT BE LOOSE STACKED. ALL STONE PITCHING SHALL BE PLACED OVER GEOFABRIC - BIDIM A24 OR EQUIVALENT.

STORMWATER DESIGN CRITERIA:

1. STORMWATER HAS BEEN DESIGNED IN ACCORDANCE WITH QUEENSLAND URBAN DRAINAGE MANUAL (Q.U.D.M.) AND BRISBANE COUNCIL PLANNING SCHEME, POLICIES & DEVELOPMENT STANDARDS.
2. STORMWATER DESIGN EVENTS ADOPTED ARE AS FOLLOWS:-
   "MINOR STORM" PIPED SYSTEM - 10 YEAR A.R.I.
   "MAJOR STORM" OVERLAND FLOW - 100 YEAR A.R.I.
3. CATCHMENT LABELS CORRELATE TO INLET STRUCTURE LABELS U.N.O.

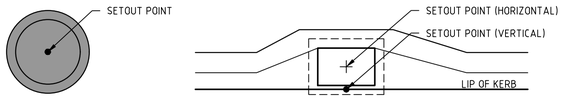
NOTES:

1. ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
2. ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
3. PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;

- U = uPVC CLASS "SN8"
- 2 = RCP CLASS '2'
- 3 = RCP CLASS '3'
- 4 = RCP CLASS '4'

ROOFWATER CONNCTION NOTE:

1. LOTS SHALL BE PROVIDED WITH KERB ADAPTER INSTALLED INTO KERB & CHANNEL IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-081.

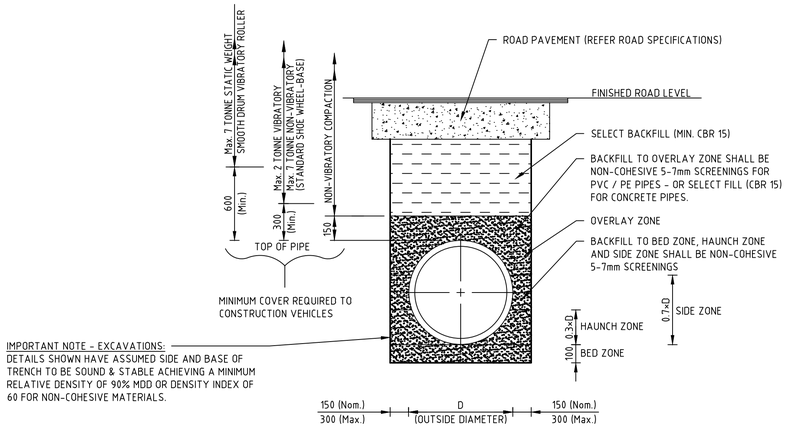


MANHOLE & ROOFWATER CHAMBER SETOUT LOCATION

GULLY PIT SETOUT LOCATION

SETOUT POINTS LOCATION DETAIL

N.T.S



TYPICAL STORMWATER TRENCH DETAIL TYPE "HS2" SUPPORT - SINGLE BARREL)

N.T.S

WARNING

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Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale

dlca ISO 9001 certified ISO 45001 certified ISO 14001 certified
System Certified

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AMORY AT RIPLEY

Designed Checked

Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
STORMWATER DRAINAGE STANDARD NOTES & DETAILS

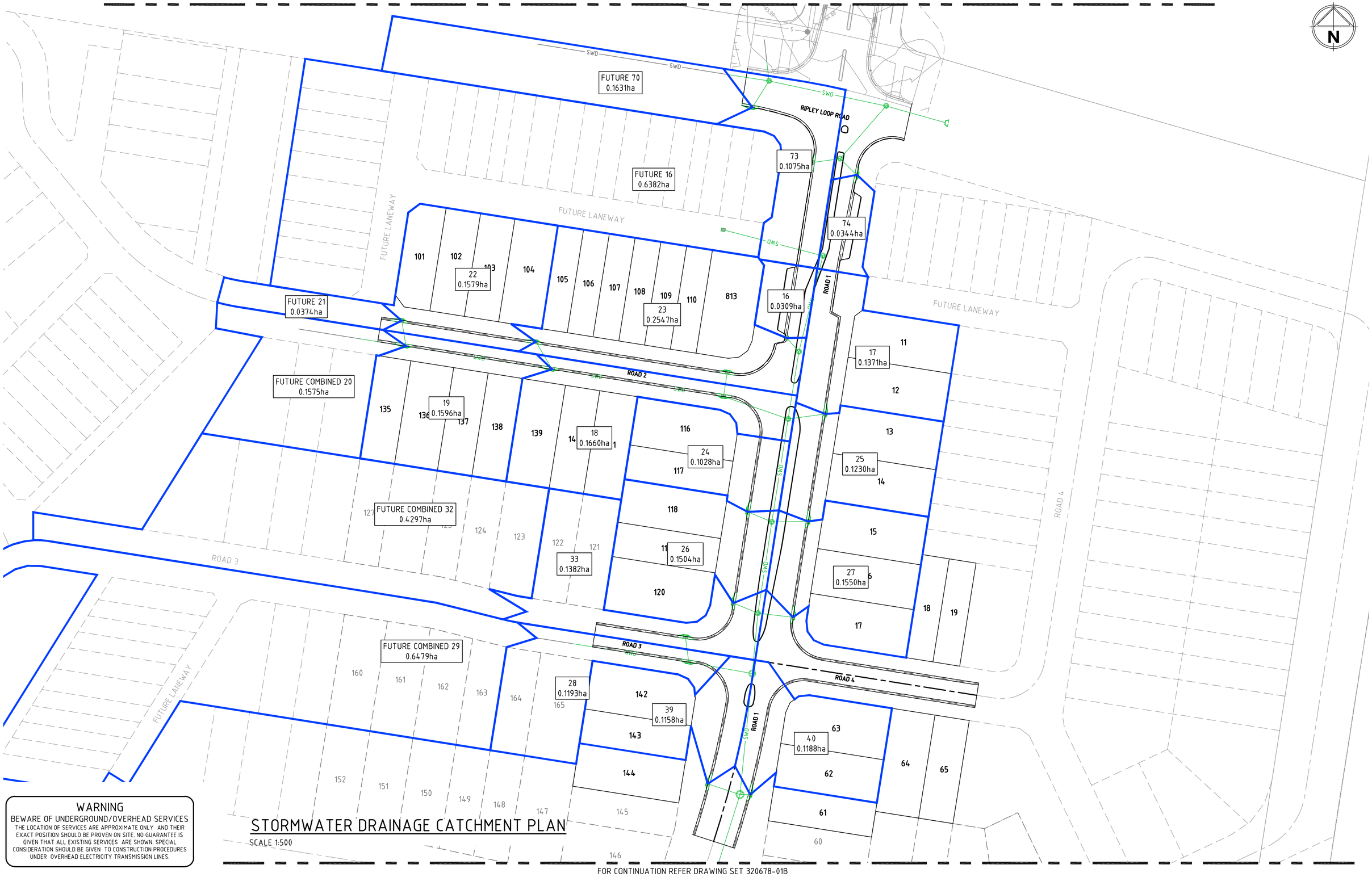
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY

Drg No 320678-01C0500 Rev B

file name: 320678-01AC0500.dwg Layout name: C0500 plotted by: Michael Brennan
file location: C:\12d\S\data\Spiire\SYNVIA_29\Civil\ACAD plot date: 23/02/2024 4:00 PM Sheet 2 of 9 Sheets

FOR CONTINUATION REFER DRAWING SET 320678-01R



WARNING

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STORMWATER DRAINAGE CATCHMENT PLAN

SCALE 1:500

FOR CONTINUATION REFER DRAWING SET 320678-01B

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:500
SCALE @ A1
0 5 10 15 20 25

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AMORY AT RIPLEY

Designed
Checked
Authorised
Date
DECEMBER 23

AMORY AT RIPLEY
STAGE 01
STORMWATER DRAINAGE CATCHMENT PLAN

IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY

Drg No 320678-01C0501
Rev B

file name:320678-01AC0501.dwg layout name:C0501 plotted by:Michael Brenner
file location:C:\12dS\Data\Spiire\SYN\01a_29\Civil\ACAD plot date:23/02/2024 4.00 PM Sheet 6 of 7 Sheets

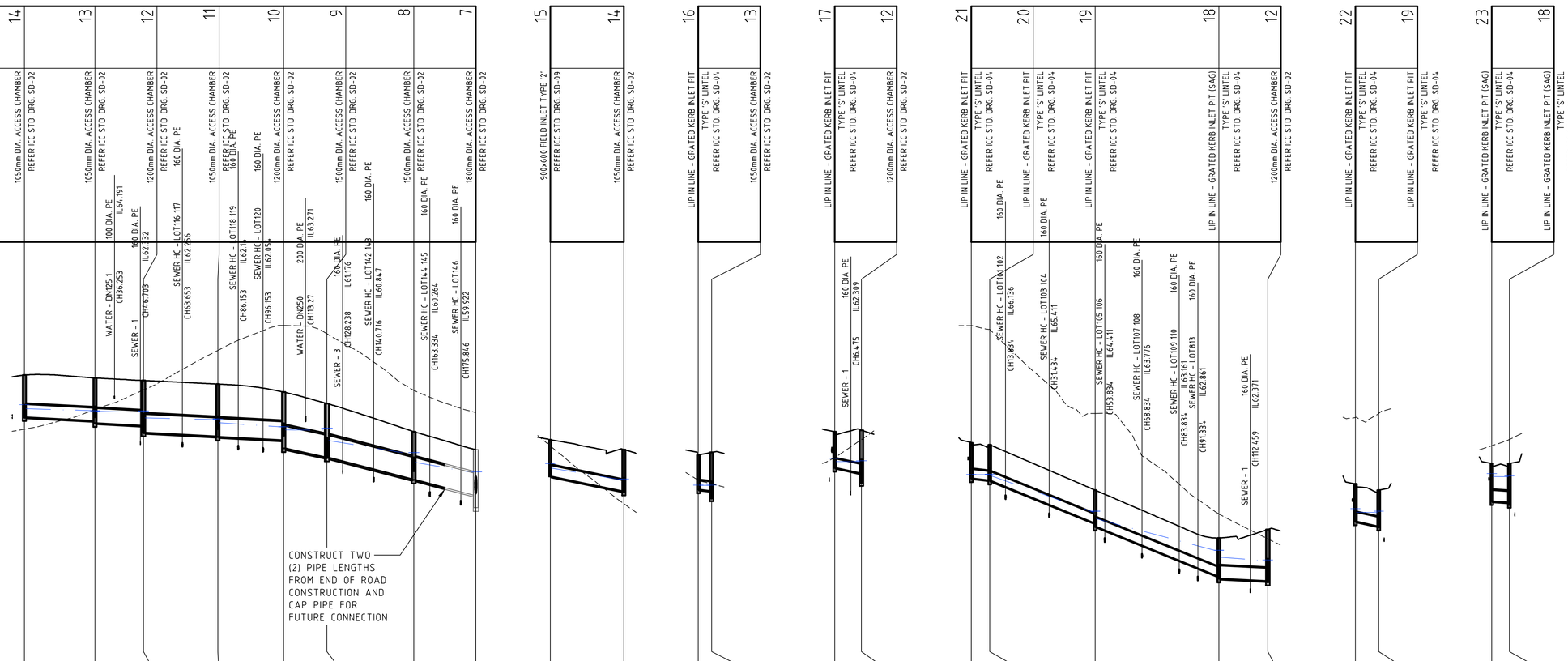
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 4

SCALE HORIZONTAL 1:1000
VERTICAL 1:100

NOTES:

- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;

- U = uPVC CLASS "SN8"
- 2 = RCP CLASS '2'
- 3 = RCP CLASS '3'
- 4 = RCP CLASS '4'



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STRUCTURE DESCRIPTION	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1200mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1200mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1500mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1500mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1800mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	900x600 FIELD INLET TYPE 'Z' REFER ICC STD. DRG. SD-09	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1200mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT (SAG) TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1200mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	LIP IN LINE - GRATED KERB INLET PIT (SAG) TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04
PIPE SIZE (mm)		525	600	750	750	900	900	900		450		375		375		375	375	375	525		375		450
PIPE CLASS		RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)		RCP (CLASS 2)		RCP (CLASS 2)		RCP (CLASS 2)		RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)		RCP (CLASS 2)		RCP (CLASS 2)
PIPE GRADE (%)		0.50%	0.50%	0.50%	0.50%	2.00%	2.50%	2.50%		2.00%		1.00%		2.00%		1.00%	4.00%	4.00%	0.50%		2.00%		0.50%
PIPE SLOPE (1 in X)		200.00	200.00	200.00	200.00	50.00	40.00	40.00		50.00		100.00		50.00		100.00	25.00	25.00	200.00		50.00		200.00
FULL PIPE VELOCITY (m/s)		1.09	0.87	1.48	1.66	1.32	2.10	2.21		1.50		0.12		0.50		0.14	0.71	1.74	1.69		0.53		0.69
PART FULL VELOCITY (m/s)		1.55	1.58	1.99	2.02	3.61	4.42	4.48		2.64		0.93		1.80		0.97	2.56	3.25	1.69		1.83		1.29
DATUM RL	48.0								51.0		51.0		50.0		54.0					54.0		51.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.951	63.788	63.701 63.705	63.674	63.656 63.691	63.415	63.347 63.370	63.223	63.050 63.062	62.934	62.922 62.996	62.500	61.949 62.015	61.622	61.206 61.242	61.023	64.565	64.395	63.915 63.951	63.788	63.707	63.700	63.701 63.705	63.674
PIPE FLOW (Cumecs)		0.236		0.246		0.653		0.733		0.841		1.335		1.407			0.238				0.013			
PIPE CAPACITY AT GRADE (Cumecs)		0.304		0.434		0.788		0.788		2.561		2.864		2.864			0.403				0.175			
DEPTH TO INVERT		1.700	1.726	1.821	1.816	2.098	2.103	2.123	1.934	2.269	2.157	2.177	1.917	1.937	1.840	2.336	1.485		1.680	1.700	1.393		1.551	1.821
INVERT LEVEL OF DRAINAGE		63.438	63.296	63.201	63.103	62.822	62.672	62.652	62.519	62.184	61.836	61.816	60.940	60.920	60.295	59.800	64.052		63.458	63.438	63.525		63.471	63.201
DESIGN SURFACE LEVEL	65.139		65.023		64.919		64.775		64.453		63.993		62.858		62.136		65.537		65.139		64.918		65.023	
SETOUT COORDINATES	E 9972.900 N 37234.009		E 9965.961 N 37206.461		E 9962.894 N 37187.126		E 9958.202 N 37157.547		E 9954.229 N 37131.310		E 9952.556 N 37113.963		E 9949.037 N 37079.131		E 9941.562 N 37055.274		E 9944.193 N 37241.510		E 9972.900 N 37234.009		E 9962.494 N 37210.421		E 9965.961 N 37206.461	
CHAINAGE	0.000	28.408	28.408	19.577	47.985	29.949	77.934	26.535	104.469	17.428	121.898	35.009	156.907	25.000	181.907		0.000	29.673	29.673		0.000	5.368	5.368	
LINE						1												2				4		

LINE	5	6	6	8	10
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.778 63.656	63.656 63.691	67.139 67.130 67.131 67.146	67.085 65.608 65.657	65.349 64.046 64.079	63.799 63.656 63.691	63.415	65.756 65.618 65.608 65.657	65.349	64.176 64.056 64.046 64.079	63.799
PIPE FLOW (Cumecs)		0.055		0.015	0.078	0.192	0.366		0.058		0.110	
PIPE CAPACITY AT GRADE (Cumecs)		0.248		0.175	0.351	0.351	0.304		0.248		0.202	
DEPTH TO INVERT		1.454	1.735	1.429	1.432 1.452	1.324 1.474	1.541 1.636	2.078	2.098	1.518	1.454	1.474	1.526	1.562	1.636
INVERT LEVEL OF DRAINAGE		63.400	63.185	62.822	66.975 66.900 66.880	65.180 65.030	63.035 62.940	62.842	62.822	65.238 65.050	65.030	63.050	63.015	62.940	
DESIGN SURFACE LEVEL	64.854		64.919		68.404 68.332	66.504	64.576	64.919	62.822	66.757 66.504	64.576	64.576			
SETOUT COORDINATES	E 9973.546 N 37188.576		E 9962.894 N 37187.126		E 9851.789 N 37215.377 E 9853.062 N 37208.083	E 9895.051 N 37201.422	E 9944.305 N 37193.608	E 9962.894 N 37187.126		E 9890.360 N 37209.340	E 9895.051 N 37201.422	E 9944.305 N 37193.608			
CHAINAGE	0.000	10.768	10.768		0.000 7.455 7.455	42.514 49.969	49.870 99.839	19.694 119.534		0.000 9.412	9.412 9.412	7.085 7.085			
LINE	5		6				6			8				10	

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:1000 SCALE @ A1
V 1:100
0 10 20 30 40 50
0 1 2 3 4 5

dlca ISO 9001 certified ISO 45001 certified ISO 14001 certified
System Certified

spiire
Waterfront Place, level 9/1 Eagle St, Brisbane City
Queensland 4000 Australia T 61 7 3522 3000
spiire.com.au ABN 55 050 029 635

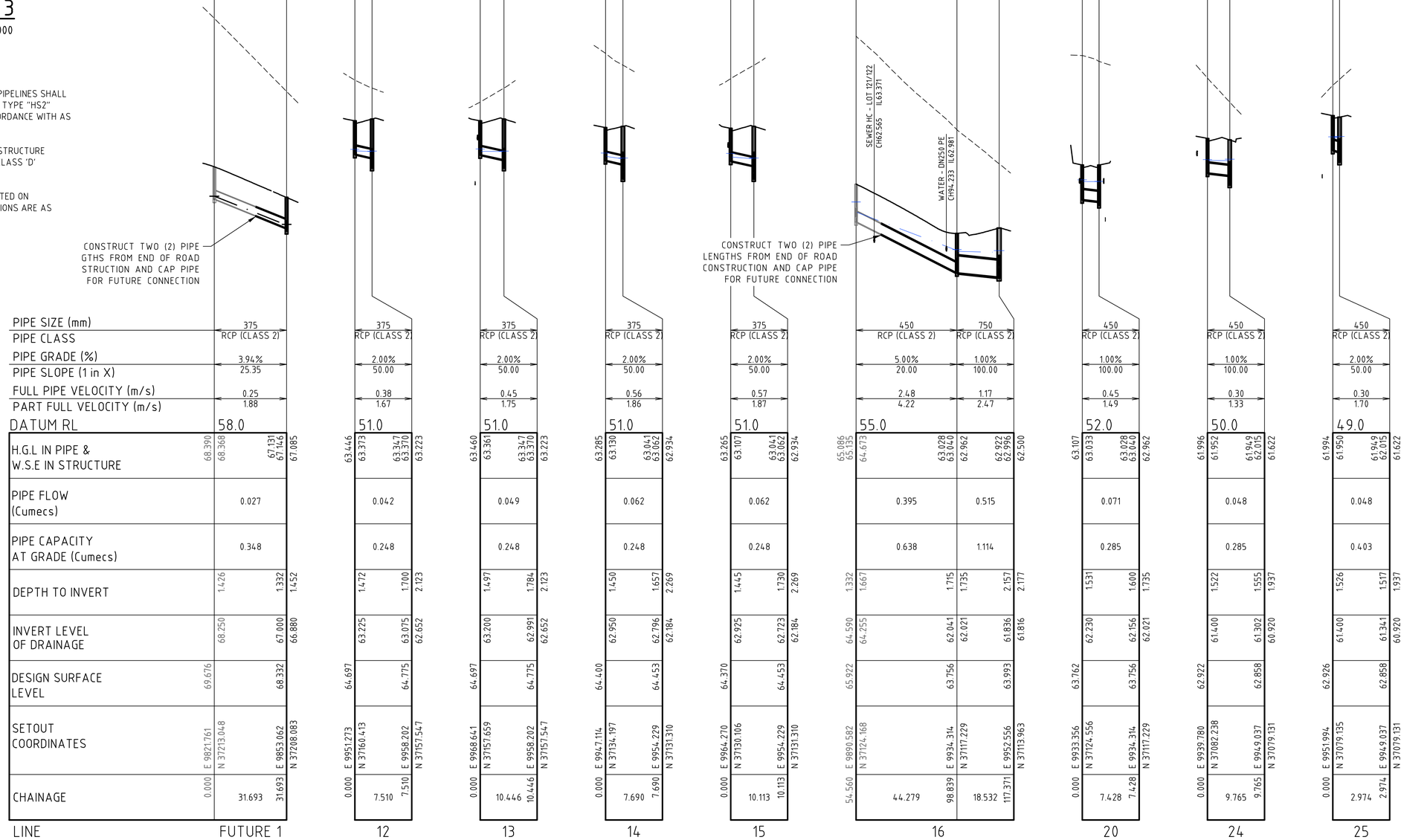
AMORY AT RIPLEY

Designed | Checked
Authorised | Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
STORMWATER DRAINAGE LONGITUDINAL SECTIONS
SHEET 1 OF 4
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0502 Rev B

file name: 320678_01C0502.dwg layout name: C0502 plotted by: Michael Brenner
file location: C:\12d\S\data\Spiire_S\YA\01A_29\Civil\ACAD plot date: 29/02/2024 4:00 PM Sheet 7 of 7 Sheets



STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 3

SCALE HORIZONTAL 1:1000
VERTICAL 1:100

NOTES:

- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;

- U = uPVC CLASS "SN8"
- 2 = RCP CLASS '2'
- 3 = RCP CLASS '3'
- 4 = RCP CLASS '4'

STRUCTURE NAME	82			20	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	
PIPE SIZE (mm)			375		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			3.94%		
PIPE SLOPE (1 in X)			25.35		
FULL PIPE VELOCITY (m/s)			0.25		
PART FULL VELOCITY (m/s)			1.88		
DATUM RL		58.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	68.390	68.368		67.131 67.146	67.085
PIPE FLOW (Cumecs)			0.027		
PIPE CAPACITY AT GRADE (Cumecs)			0.348		
DEPTH TO INVERT		1.426		1.332	1.452
INVERT LEVEL OF DRAINAGE		68.250		67.000	66.880
DESIGN SURFACE LEVEL	69.676			68.332	
SETOUT COORDINATES	E 9821.761	N 37213.048		E 9853.062	N 37208.083
CHAINAGE	0.000		31.693	31.693	
LINE			FUTURE 1		

STRUCTURE NAME	24			11	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			375		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			2.00%		
PIPE SLOPE (1 in X)			50.00		
FULL PIPE VELOCITY (m/s)			0.38		
PART FULL VELOCITY (m/s)			1.67		
DATUM RL		51.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.446	63.373		63.347 63.370	63.223
PIPE FLOW (Cumecs)			0.042		
PIPE CAPACITY AT GRADE (Cumecs)			0.248		
DEPTH TO INVERT		1.472		1.700	2.123
INVERT LEVEL OF DRAINAGE		63.225		63.075	62.652
DESIGN SURFACE LEVEL	64.697			64.775	
SETOUT COORDINATES	E 9951.273	N 37160.413		E 9958.202	N 37157.547
CHAINAGE	0.000		7.510	7.510	
LINE			12		

STRUCTURE NAME	25			11	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			375		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			2.00%		
PIPE SLOPE (1 in X)			50.00		
FULL PIPE VELOCITY (m/s)			0.45		
PART FULL VELOCITY (m/s)			1.75		
DATUM RL		51.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.460	63.361		63.347 63.370	63.223
PIPE FLOW (Cumecs)			0.049		
PIPE CAPACITY AT GRADE (Cumecs)			0.248		
DEPTH TO INVERT		1.497		1.784	2.123
INVERT LEVEL OF DRAINAGE		63.200		62.991	62.652
DESIGN SURFACE LEVEL	64.697			64.775	
SETOUT COORDINATES	E 9968.641	N 37157.659		E 9958.202	N 37157.547
CHAINAGE	0.000		10.446	10.446	
LINE			13		

STRUCTURE NAME	26			10	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1200mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			375		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			2.00%		
PIPE SLOPE (1 in X)			50.00		
FULL PIPE VELOCITY (m/s)			0.56		
PART FULL VELOCITY (m/s)			1.86		
DATUM RL		51.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.285	63.130		63.041 63.062	62.934
PIPE FLOW (Cumecs)			0.062		
PIPE CAPACITY AT GRADE (Cumecs)			0.248		
DEPTH TO INVERT		1.450		1.657	2.269
INVERT LEVEL OF DRAINAGE		62.950		62.796	62.184
DESIGN SURFACE LEVEL	64.400			64.453	
SETOUT COORDINATES	E 9947.114	N 37134.197		E 9954.229	N 37131.310
CHAINAGE	0.000		7.690	7.690	
LINE			14		

STRUCTURE NAME	27			10	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1200mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			375		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			2.00%		
PIPE SLOPE (1 in X)			50.00		
FULL PIPE VELOCITY (m/s)			0.57		
PART FULL VELOCITY (m/s)			1.87		
DATUM RL		51.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.265	63.107		63.041 63.062	62.934
PIPE FLOW (Cumecs)			0.062		
PIPE CAPACITY AT GRADE (Cumecs)			0.248		
DEPTH TO INVERT		1.445		1.730	2.269
INVERT LEVEL OF DRAINAGE		62.925		62.723	62.184
DESIGN SURFACE LEVEL	64.370			64.453	
SETOUT COORDINATES	E 9964.270	N 37130.106		E 9954.229	N 37131.310
CHAINAGE	0.000		10.113	10.113	
LINE			15		

STRUCTURE NAME	29			28			9	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			LIP IN LINE - GRATED KERB INLET PIT (SAG) TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1500mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			450			750		
PIPE CLASS			RCP (CLASS 2)			RCP (CLASS 2)		
PIPE GRADE (%)			5.00%			1.00%		
PIPE SLOPE (1 in X)			20.00			100.00		
FULL PIPE VELOCITY (m/s)			2.48			1.17		
PART FULL VELOCITY (m/s)			4.22			2.47		
DATUM RL		55.0						
H.G.L IN PIPE & W.S.E IN STRUCTURE	65.086 65.135	64.673		63.028 63.040	62.962		62.922 62.996	62.500
PIPE FLOW (Cumecs)			0.395			0.515		
PIPE CAPACITY AT GRADE (Cumecs)			0.638			1.114		
DEPTH TO INVERT	1.332	1.667		1.715	1.735		2.157	2.177
INVERT LEVEL OF DRAINAGE	64.590	64.255		62.041	62.021		61.836	61.816
DESIGN SURFACE LEVEL	65.922			63.756			63.993	
SETOUT COORDINATES	E 9890.582	N 37124.168		E 9934.314	N 37117.229		E 9952.556	N 37113.963
CHAINAGE	54.560		44.279	98.839		18.532	117.371	
LINE				16				

STRUCTURE NAME	33			28	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT (SAG) TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			LIP IN LINE - GRATED KERB INLET PIT (SAG) TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	
PIPE SIZE (mm)			450		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			1.00%		
PIPE SLOPE (1 in X)			100.00		
FULL PIPE VELOCITY (m/s)			0.45		
PART FULL VELOCITY (m/s)			1.49		
DATUM RL		52.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.107	63.033		63.028 63.040	62.962
PIPE FLOW (Cumecs)			0.071		
PIPE CAPACITY AT GRADE (Cumecs)			0.285		
DEPTH TO INVERT		1.531		1.600	1.735
INVERT LEVEL OF DRAINAGE		62.230		62.156	62.021
DESIGN SURFACE LEVEL	63.762			63.756	
SETOUT COORDINATES	E 9933.356	N 37124.556		E 9934.314	N 37117.229
CHAINAGE	0.000		7.428	7.428	
LINE			20		

STRUCTURE NAME	39			8	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1500mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			450		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			1.00%		
PIPE SLOPE (1 in X)			100.00		
FULL PIPE VELOCITY (m/s)			0.30		
PART FULL VELOCITY (m/s)			1.33		
DATUM RL		50.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.996	61.952		61.949 62.015	61.622
PIPE FLOW (Cumecs)			0.048		
PIPE CAPACITY AT GRADE (Cumecs)			0.285		
DEPTH TO INVERT		1.522		1.555	1.937
INVERT LEVEL OF DRAINAGE		61.400		61.302	60.920
DESIGN SURFACE LEVEL	62.922			62.858	
SETOUT COORDINATES	E 9939.780	N 37082.238		E 9949.037	N 37079.131
CHAINAGE	0.000		9.765	9.765	
LINE			24		

STRUCTURE NAME	40			8	
STRUCTURE DESCRIPTION	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04			1500mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	
PIPE SIZE (mm)			450		
PIPE CLASS			RCP (CLASS 2)		
PIPE GRADE (%)			2.00%		
PIPE SLOPE (1 in X)			50.00		
FULL PIPE VELOCITY (m/s)			0.30		
PART FULL VELOCITY (m/s)			1.70		
DATUM RL		49.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.994	61.950		61.949 62.015	61.622
PIPE FLOW (Cumecs)			0.048		
PIPE CAPACITY AT GRADE (Cumecs)			0.403		
DEPTH TO INVERT		1.526		1.517	1.937
INVERT LEVEL OF DRAINAGE		61.400		61.341	60.920
DESIGN SURFACE LEVEL	62.926			62.858	
SETOUT COORDINATES	E 9951.994	N 37079.135		E 9949.037	N 37079.131
CHAINAGE	0.000		2.974	2.974	
LINE			25		

file name 320678-01AC0503.dwg layout name C0503 plotted by Michael Bremner
file location C:\12dS\data\SpiireSYN\01A_29\Civil\ACAD plot date 23/02/2024 4:00 PM Sheet 2 of 9 Sheets

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:1000 SCALE @ A1 V 1:100
0 10 20 30 40 50
0 1 2 3 4 5

System Certified

Waterfront Place, level 9/1 Eagle St, Brisbane City
Queensland 4000 Australia T 61 7 3522 3000
spiire.com.au ABN 55 050 029 635

Designed
Checked
Authorised
Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
STORMWATER DRAINAGE LONGITUDINAL SECTIONS
SHEET 2 OF 3
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY
Drg No **320678-01C0503**
Rev **B**

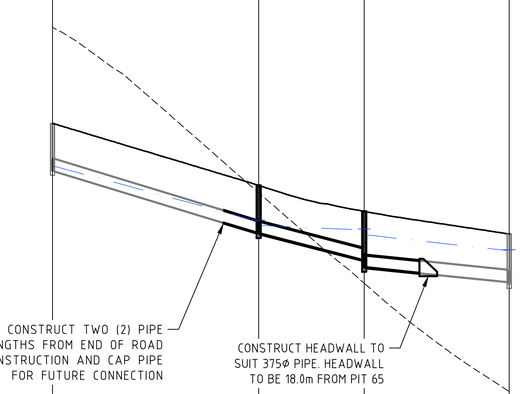
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 3

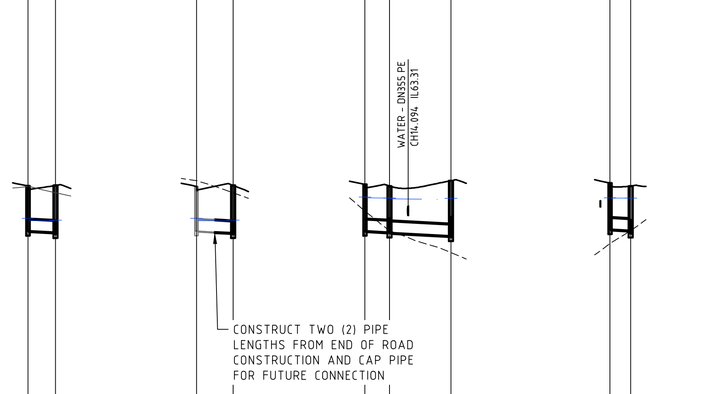
SCALE HORIZONTAL 1:1000
VERTICAL 1:100

NOTES:

- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;

- U = uPVC CLASS "SN8"
- 2 = RCP CLASS '2'
- 3 = RCP CLASS '3'
- 4 = RCP CLASS '4'





STRUCTURE NAME	67	66	65	64	70	66	71	66	73	72	65	74	72
STRUCTURE DESCRIPTION	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT (SAG) TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02	LIP IN LINE - GRATED KERB INLET PIT TYPE 'S' LINTEL REFER ICC STD. DRG. SD-04	1050mm DIA. ACCESS CHAMBER REFER ICC STD. DRG. SD-02
PIPE SIZE (mm)		375	375	375	375		375		375	375		375	
PIPE CLASS		RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP		RCP (CLASS 2)		RCP (CLASS 2)	RCP (CLASS 2)		RCP (CLASS 2)	
PIPE GRADE (%)		3.00%	2.50%	1.00%	0.50%		0.50%		0.50%	0.50%		0.50%	
PIPE SLOPE (1 in X)		33.33	40.00	100.00	199.64		199.99		200.06	200.00		199.99	
FULL PIPE VELOCITY (m/s)		0.40	1.17	1.66	0.40		0.40		0.40	0.52		0.13	
PART FULL VELOCITY (m/s)		1.96	2.47	1.80	1.03		1.03		1.02	1.10		0.74	
DATUM RL	51.0				51.0		51.0		50.0			50.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	65.940 / 65.919	64.133 / 64.155	63.985 / 63.832 / 63.865	63.679 / 63.161 / 63.189 / 62.946	64.216 / 64.137	64.133 / 64.155 / 63.985	64.218 / 64.139	64.133 / 64.155 / 63.985	63.913 / 63.882	63.877 / 63.878 / 63.854	63.832 / 63.865 / 63.679	63.881 / 63.877	63.878 / 63.854
PIPE FLOW (Cumecs)		0.044	0.129	0.183	0.044		0.044		0.044	0.058		0.014	
PIPE CAPACITY AT GRADE (Cumecs)		0.304	0.277	0.175	0.124		0.124		0.124	0.124		0.124	
DEPTH TO INVERT	1.527 / 1.547	1.542	1.570 / 1.585	1.824 / 1.558 / 1.635	1.477	1.535 / 1.570	1.460	1.550 / 1.570	1.527	1.509 / 1.529	1.804 / 1.824	1.516	1.453 / 1.529
INVERT LEVEL OF DRAINAGE	65.787 / 65.767	63.748	63.720 / 62.859	62.620 / 62.147 / 62.070	63.800	63.755 / 63.720	63.800	63.740 / 63.720	62.800	62.760 / 62.740	62.640 / 62.620	62.850	62.816 / 62.740
DESIGN SURFACE LEVEL	67.314	65.290	64.444 / 63.705		65.277	65.290	65.260	65.290	64.327	64.269	64.444	64.366	64.269
SETOUT COORDINATES	E 9890.886 / N 37294.878	E 9957.343	N 37284.246 / E 9991.038	N 37277.101 / E 10036.465 / N 37263.984	E 9952.595 / N 37276.687	E 9957.343 / N 37284.246	E 9956.058 / N 37296.147	E 9957.343 / N 37284.246	E 9969.914 / N 37260.848	E 9977.832 / N 37261.979	N 37277.101 / E 9991.038	E 9982.662 / N 37257.319	E 9977.832 / N 37261.979
CHAINAGE	9.617	67.303 / 76.920	34.444 / 111.364	47.283 / 158.647	0.000	8.962 / 8.962	0.000	11.986 / 11.986	0.000	8.018 / 8.018	20.076 / 28.095	0.000	6.784 / 6.784
LINE		43			45		46		47			48	

Rev	Amendments	Approved	Date
B	ISSUE FOR TENDER	K.H.	21-02-24
A	ISSUE FOR APPROVAL	K.H.	01-12-23

Scale
H 1:1000 SCALE @ A1 V 1:100
0 10 20 30 40 50
0 1 2 3 4 5

dlcs System Certified

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Waterfront Place, level 9/1 Eagle St, Brisbane City
Queensland 4000 Australia T 61 7 3522 3000
spiire.com.au ABN 55 050 029 635

AMORY AT RIPLEY

Designed Checked
Authorised Date DECEMBER 23

AMORY AT RIPLEY
STAGE 01
STORMWATER DRAINAGE LONGITUDINAL SECTIONS
SHEET 3 OF 3
IPSWICH CITY COUNCIL
RIPLEY ROAD DEVELOPMENT PTY LTD

PRELIMINARY Drg No 320678-01C0504 Rev B

file name 320678-01MC0504_dwg layout name C0504 plotted by Michael Brenner
file location C:\12dS\data\Spiire\SYN\01A_29\Civil\ACAD plot date 23/02/2024 4:00 PM Sheet # of # Sheets