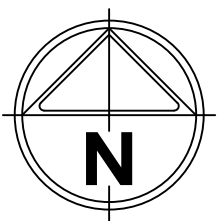
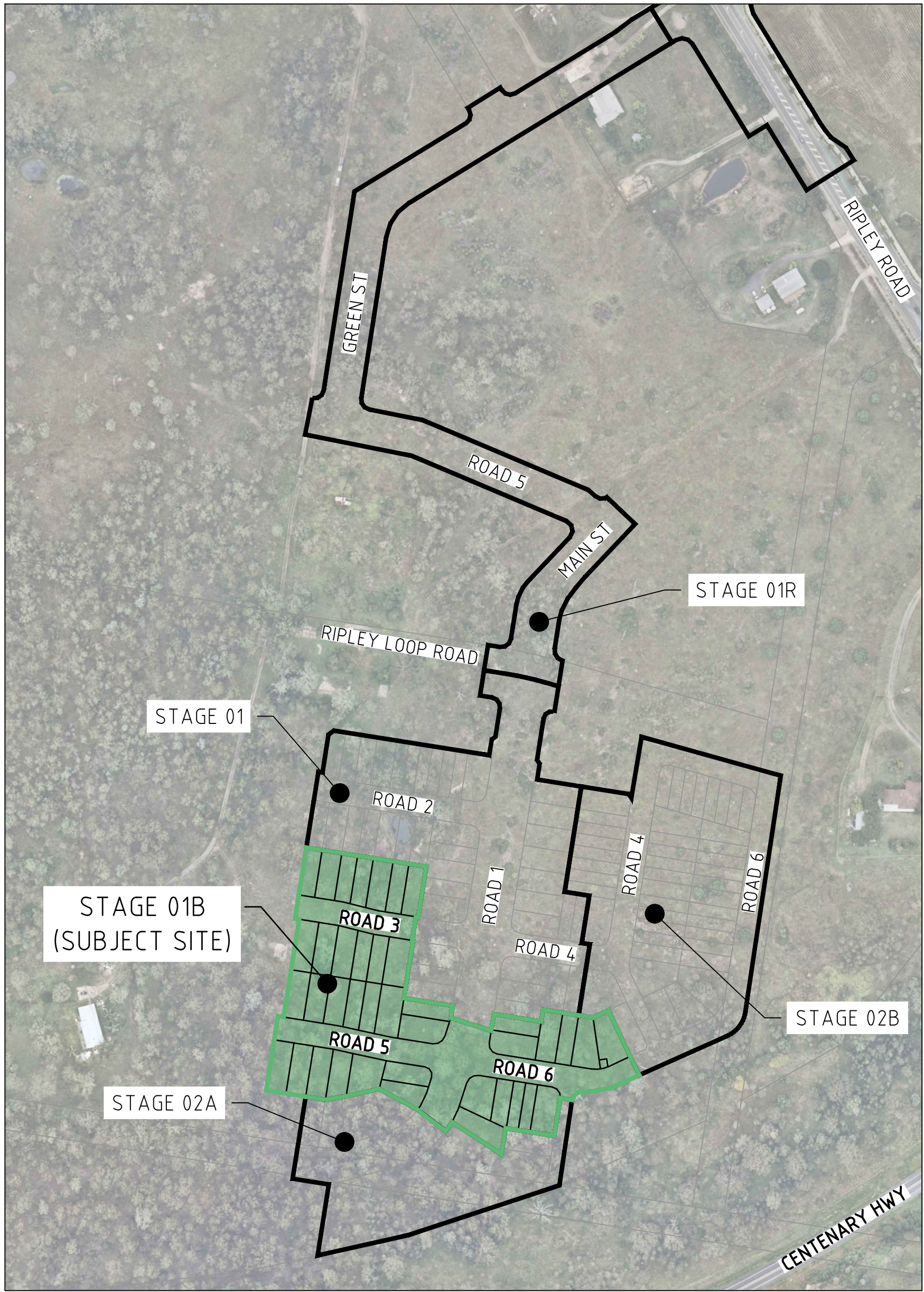


# AMORY AT RIPLEY

## STAGE 01B

### RIPLEY ESTATE DEVELOPMENT PTY LTD



LOCALITY PLAN  
NTS

DRAWING SCHEDULE	
DRAWING	DESCRIPTION
GENERAL	
320678-01B-CR100	DRAWING SCHEDULE & LOCALITY PLAN
320678-01B-CR101	STANDARD NOTES & LEGEND
320678-01B-CR102	OVERALL KEY PLAN
320678-01B-CR103	CONTROL LINE LAYOUT PLAN
320678-01B-CR104	TYPICAL CROSS SECTION
EARTHWORKS	
320678-01B-CR200	EARTHWORKS LAYOUT - SHEET 1 OF 3
320678-01B-CR201	EARTHWORKS LAYOUT - SHEET 2 OF 3
320678-01B-CR202	EARTHWORKS LAYOUT - SHEET 3 OF 3
320678-01B-CR203	EARTHWORKS SITE SECTIONS - SHEET 1 OF 2
320678-01B-CR204	EARTHWORKS SITE SECTIONS - SHEET 2 OF 2
ROADWORKS	
320678-01B-CR300	ROADWORKS STANDARD DETAILS
320678-01B-CR301	ROADWORKS LAYOUT PLAN - SHEET 1 OF 3
320678-01B-CR302	ROADWORKS LAYOUT PLAN - SHEET 2 OF 3
320678-01B-CR303	ROADWORKS LAYOUT PLAN - SHEET 3 OF 3
320678-01B-CR304	ROAD 1 LONGITUDINAL SECTIONS
320678-01B-CR305	ROAD 1 CROSS SECTIONS
320678-01B-CR306	ROAD 3 LONGITUDINAL SECTIONS
320678-01B-CR307	ROAD 3 CROSS SECTIONS
320678-01B-CR308	ROAD 5 LONGITUDINAL SECTIONS
320678-01B-CR309	ROAD 5 CROSS SECTIONS
320678-01B-CR310	ROAD 6 LONGITUDINAL SECTIONS
320678-01B-CR311	ROAD 6 CROSS SECTIONS
320678-01B-CR312	ROAD 1/ROAD 5/ROAD 6 INTERSECTION DETAIL PLAN - SHEET 1 OF 2
320678-01B-CR313	ROAD 1/ROAD 5/ROAD 6 INTERSECTION DETAIL PLAN - SHEET 2 OF 2
SIGNAGE & LINEMARKING	
320678-01B-CR400	SIGNAGE & LINEMARKING LAYOUT PLAN
STORMWATER DRAINAGE	
320678-01B-CR500	STORMWATER DRAINAGE STANDARD NOTES & DETAILS
320678-01B-CR501	STORMWATER DRAINAGE CATCHMENT PLAN
320678-01B-CR502	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 3
320678-01B-CR503	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 3
320678-01B-CR504	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 3
320678-01B-CR510	STORMWATER STRUCTURE DETAILS - SHEET 1 OF 2
320678-01B-CR511	STORMWATER STRUCTURE DETAILS - SHEET 2 OF 2
SAFETY IN DESIGN REPORT	
320678-01B-CR900	SAFETY IN DESIGN REPORT



**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.

file:aspe-320678-01B-CR100.dwg layout: name: CR100 plotted by: Tim Mullen

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

NOT TO SCALE



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN  
Checked  
K. HOWELLS  
Authorised  
M. READMAN RPEQ 28295  
Date  
DECEMBER 23

**AMORY AT RIPLEY**  
**STAGE 01B**  
**DRAWING SCHEDULE & LOCALITY PLAN**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01B-CR100 Rev  
1



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  $\pm 0.05\text{m}$ .
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. CONTRACTOR TO PROVIDE DILAPIDATION REPORT OF ALL ASSETS IN THE VICINITY OF WORKS

## EARTHWORKS

3. 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 AS3798.
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 ENSURE 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 MAXIMUM 150mm 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. CONCRETE 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  $\leq 600$  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. CONCRETE 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/AUTHORITY 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. CONCRETE 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		
SEWER & MAINTENANCE STRUCTURE		
SWALE		
STORMWATER DRAIN & PIT		
STORMWATER PITS		
KERB ADAPTOR		
AG DRAIN AND FLUSHER		
STORM WATER DRAINAGE PIT NUMBER		
MOUNTABLE KERB - TYPE M1		
SURFACE CONTOUR MAJOR		
SURFACE CONTOUR MINOR		
SIGN AND POST		
STREET SIGN		
ROAD CENTERLINE		
ROAD CHAINAGES		
BATTERY		
CUT EXTENTS		
FILL EXTENTS		
ROCK PITCHING		
FENCES		
ROAD PAVEMENT - TYPE A		
ROAD PAVEMENT - TYPE B		
FOOTPATH		
RETAINING WALL		
RETAINING WALL HEIGHT		(2.0)
LOT LEVEL		RL 60.00

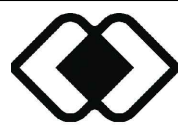
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked

K. HOWELLS

Date \_\_\_\_\_

DECEMBER 23

# AMORY AT RIPLEY

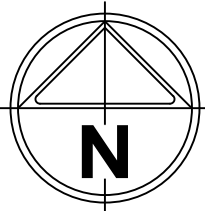
## STAGE 01B

### STANDARD NOTES & LEGEND

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01B-CR101**





LAYOUT PLAN - SHEET 1

STAGE 01 WORKS  
REFER TO DRAWING SET 320678-01

FUTURE  
STAGE

FUTURE  
STAGE 02B

FUTURE  
STAGE 02A

SEDIMENT BASIN

OVERALL KEY PLAN

SCALE 1:500

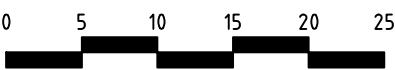
LAYOUT PLAN - SHEET 2

LAYOUT PLAN - SHEET 3

file:spire\_320678-01B-CR102.dwg layout name:CR102 plotted by:Tim Mullen  
FILE DETAILS

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1500  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

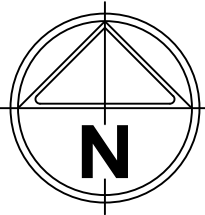
Date  
DECEMBER 23

**AMORY AT RIPLEY  
STAGE 01B  
OVERALL KEY PLAN**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01B-CR102 Rev 1





CONTROL LINE LAYOUT PLAN  
SCALE 1:500

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1500  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

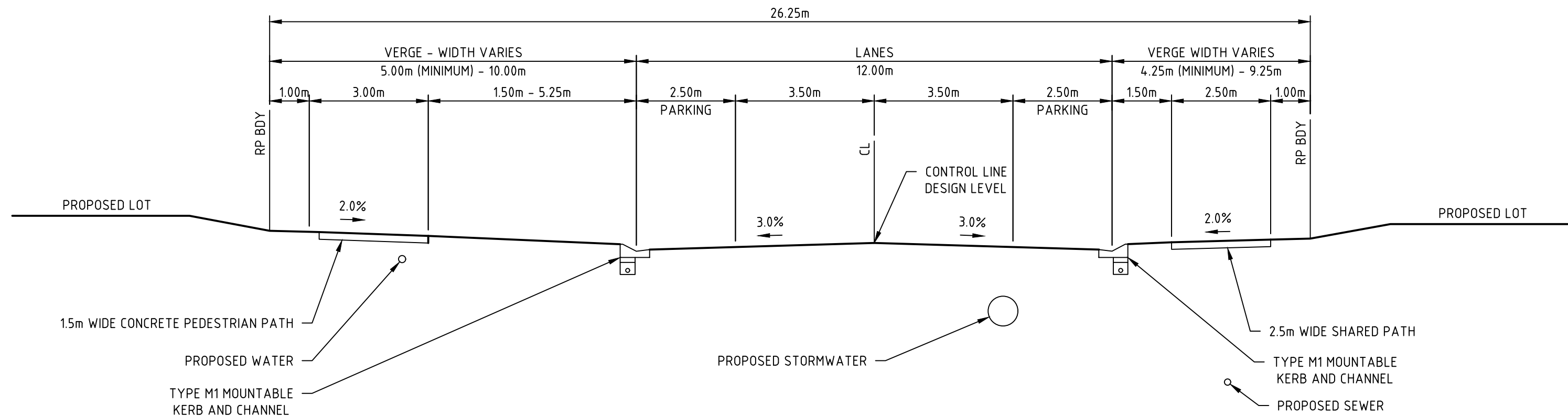
AMORY AT RIPLEY  
STAGE 01B  
CONTROL LINE LAYOUT PLAN

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

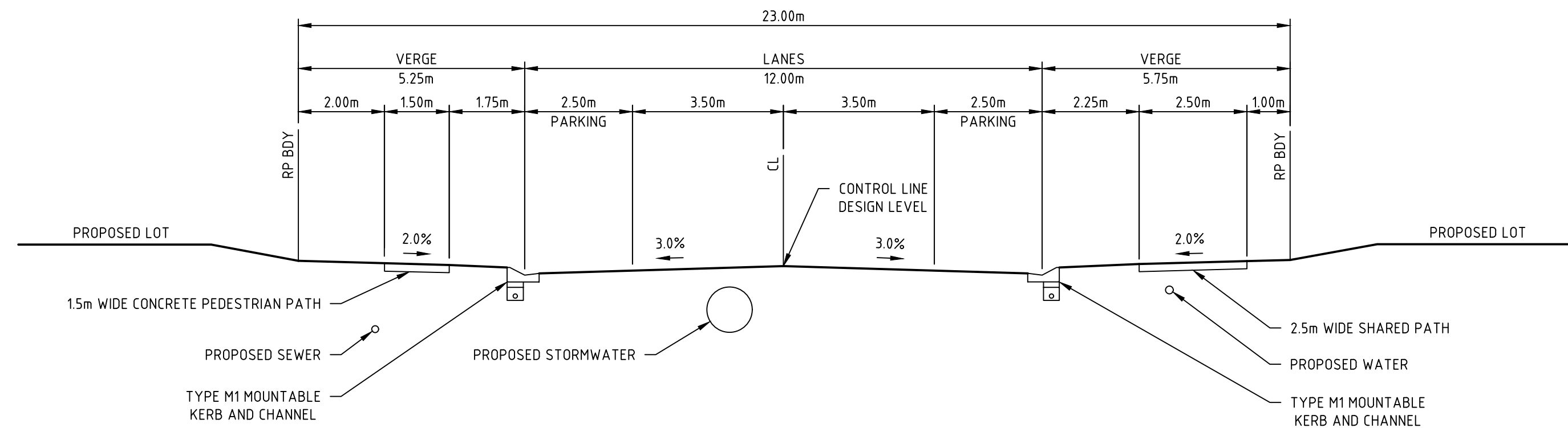
**CONSTRUCTION** Drg No 320678-01B-CR103 Rev 1



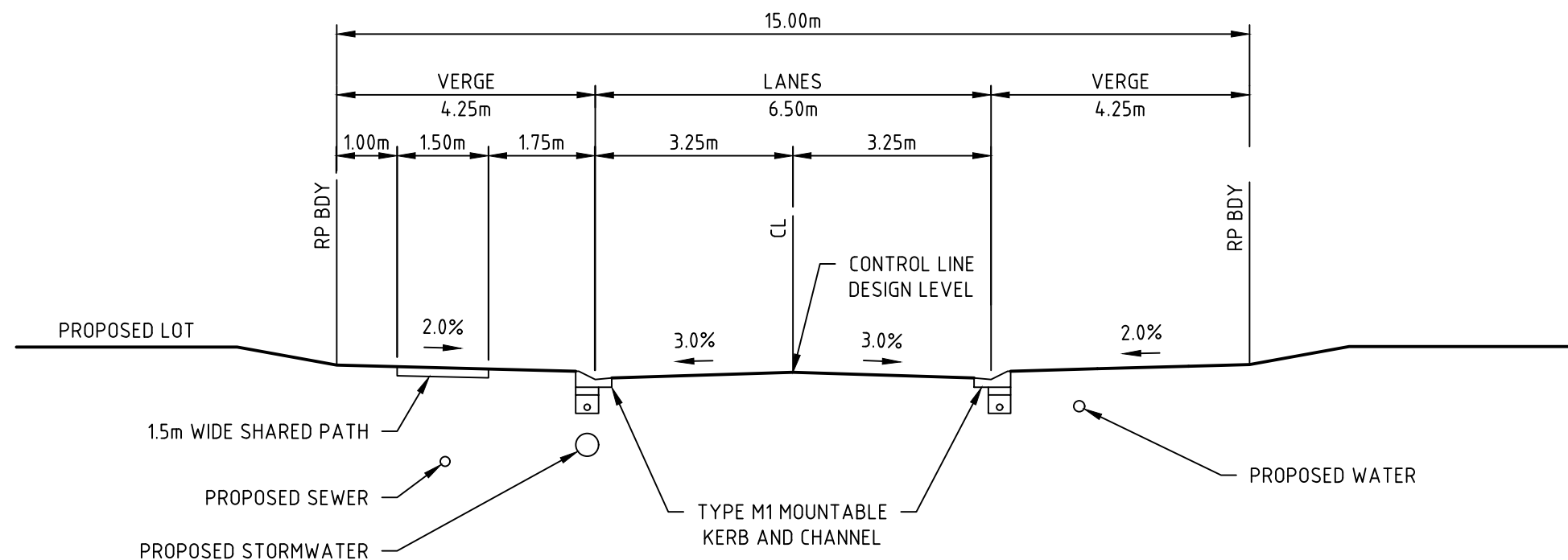
NOTE:  
- SERVICE LOCATIONS ARE INDICATIVE ONLY  
- FOR TYPICAL SERVICE CORRIDORS REFER TO ICC-STD-DWG-SR22 & SR23.



**TYPICAL SECTION - 26.25m NEIGHBOURHOOD CONNECTOR WITH LOT ACCESS**  
**ROAD 1 - BETWEEN START OF WORKS TO ROAD 5/ROAD 6**  
SCALE 1:100



**TYPICAL SECTION - 23.00m NEIGHBOURHOOD CONNECTOR WITH CAR PARKING**  
**ROAD 1 - BETWEEN ROAD 5/ROAD 6 TO END OF WORKS**  
SCALE 1:100

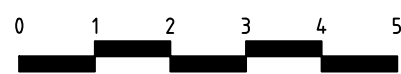


**TYPICAL SECTION - 15.00m NEIGHBOURHOOD ACCESS ROAD**  
**ROAD 3 - CH46.750 TO CH121.500**  
**ROAD 5 - CH0.000 TO CH115.400**  
**ROAD 6 - CH0.000 TO CH115.000**  
SCALE 1:100

file name: 320678-01B-CR104.dwg layout name: CR104 plotted by: Tim Mullen  
FILED: 11/11/2024 11:11:11 AM

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1:100  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

**AMORY AT RIPLEY  
STAGE 01B  
TYPICAL CROSS SECTIONS**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01B-CR104 Rev 1



**RETAINING WALLS TYPICAL NOTE:**  
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 - DEPARTMENT OF LOCAL GOVERNMENT AND CERTIFIED BY AN R.P.E.Q. ENGINEER.

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

STAGE 01 WORKS  
REFER TO DRAWING SET 320678-01

**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.

FOR CONTINUATION REFER TO DRG 320678-01B-CR201

**EARTHWORKS LAYOUT PLAN - SHEET 1 OF 3**

SCALE 1:250

H 1:250  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
**T. MULLEN**  
Authorised  
**M. READMAN RPEQ 28295**  
Checked  
**K. HOWELLS**  
Date  
**DECEMBER 23**

**AMORY AT RIPLEY  
STAGE 01B  
EARTHWORKS LAYOUT PLAN  
SHEET 1 OF 3**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
**320678-01B-CR200** Rev  
**1**

file name: 320678-01B-CR200.dwg layout name: CR200 plotted by: Tim Mullen  
FILE DETAILS



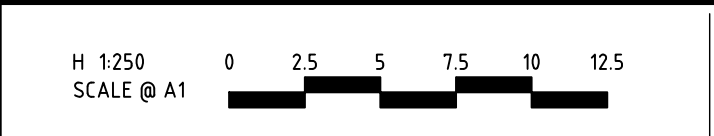
file name: 320678-01B-CR200.dwg layout name: CR201 plotted by: Tim Mullen  
FILE DETAILS

**RETAINING WALLS TYPICAL NOTE:**  
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 - DEPARTMENT OF LOCAL GOVERNMENT AND CERTIFIED BY AN R.P.E.Q. ENGINEER.

**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.

**EARTHWORKS LAYOUT PLAN - SHEET 2 OF 3**  
SCALE 1:250

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

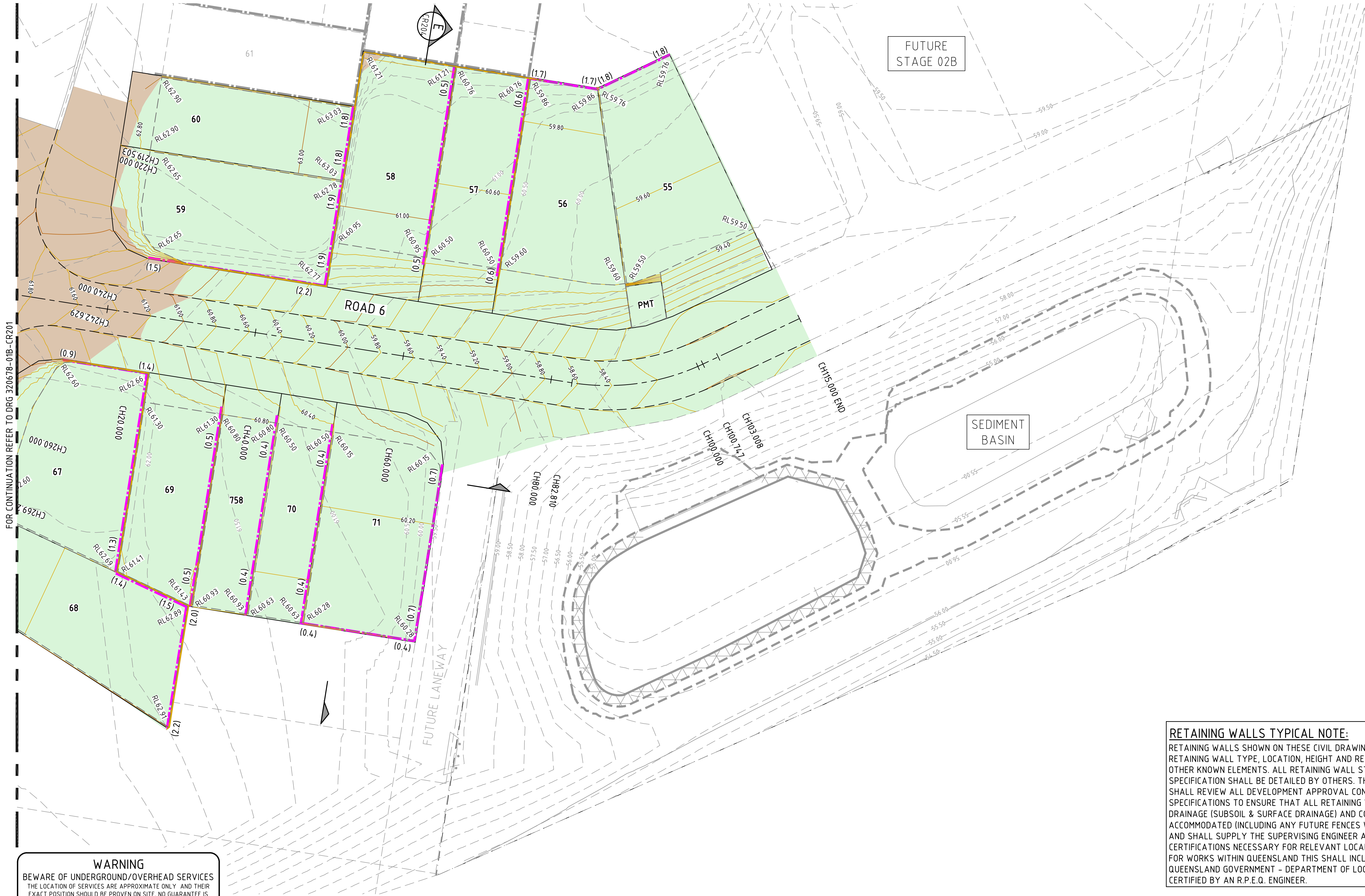
**spiire**  
Waterfront Place, level 9/1 Eagle St, Brisbane City  
Queensland 4000 Australia T 61 7 3522 3000  
spiire.com.au ABN 55 050 029 635

**AMORY**  
AT RIPLEY  
Designed  
**T. MULLEN**  
Authorised  
**M. READMAN RPEQ 28295**  
Checked  
**K. HOWELLS**  
Date  
**DECEMBER 23**

**AMORY AT RIPLEY**  
**STAGE 01B**  
**EARTHWORKS LAYOUT PLAN**  
**SHEET 2 OF 3**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD  
**CONSTRUCTION**  
Drg No  
**320678-01B-CR201**  
Rev  
**1**



FOR CONTINUATION REFER TO DRG 320678-01B-CR201

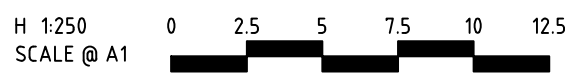


**WARNING**  
BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY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

**EARTHWORKS LAYOUT PLAN - SHEET 3 OF 3**  
SCALE 1:250

**RETAINING WALLS TYPICAL NOTE:**  
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 - DEPARTMENT OF LOCAL GOVERNMENT AND CERTIFIED BY AN R.P.E.Q. ENGINEER.

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



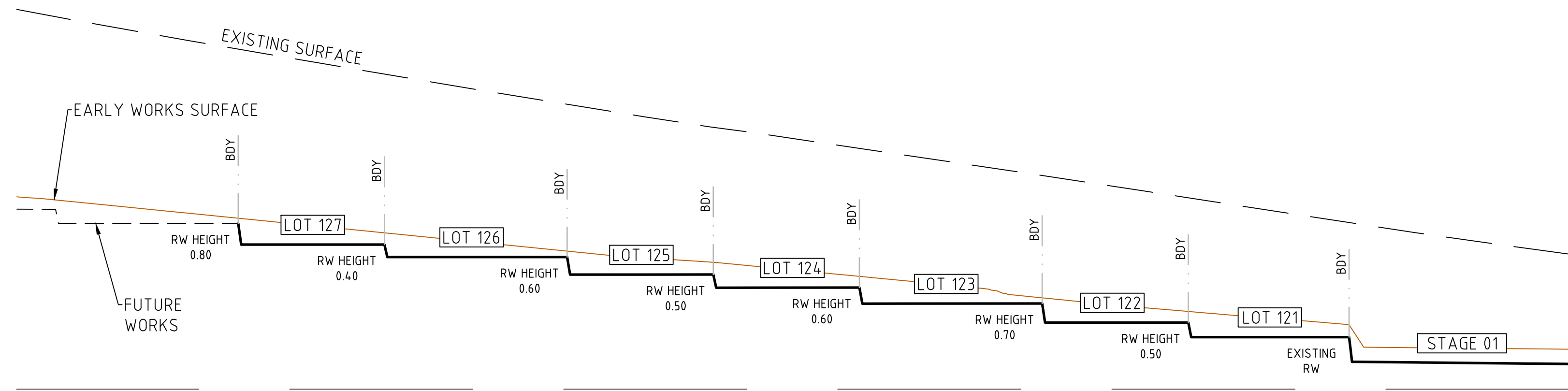
© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
**T. MULLEN**  
Authorised  
**M. READMAN RPEQ 28295**  
Checked  
**K. HOWELLS**  
Date  
**DECEMBER 23**

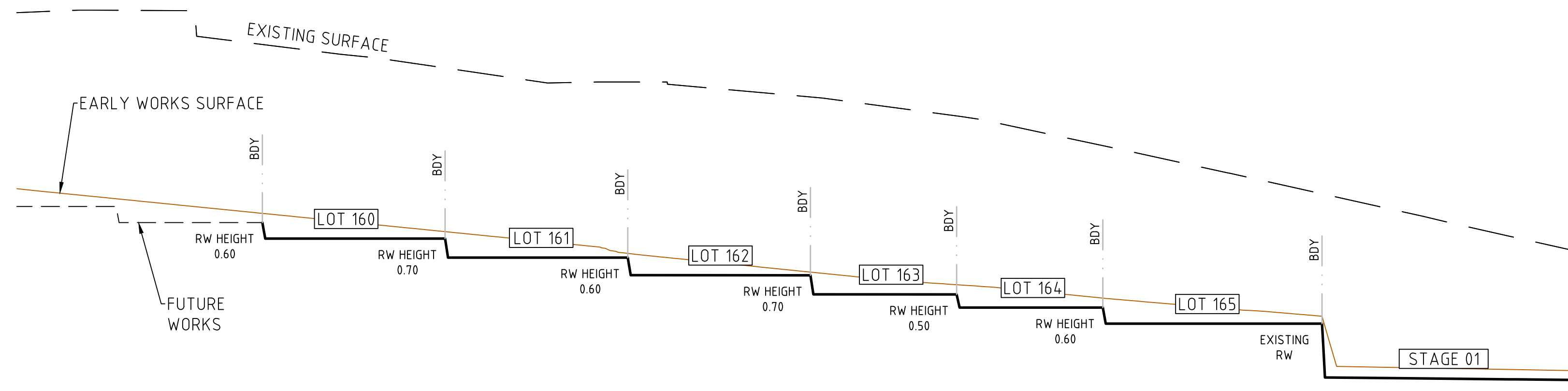
**AMORY AT RIPLEY**  
**STAGE 01B**  
**EARTHWORKS LAYOUT PLAN**  
**SHEET 3 OF 3**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD  
**CONSTRUCTION** Drg No **320678-01B-CR202** Rev **1**





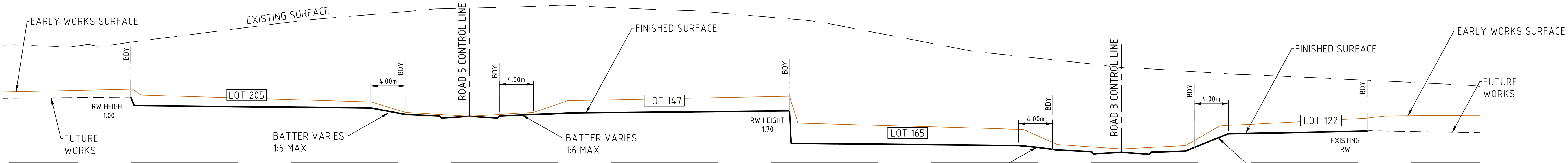
DATUM RL 64.00

**EARTHWORKS SECTION - A**  
SCALE 1:250



DATUM RL 63.00

**EARTHWORKS SECTION - B**  
SCALE 1:250



DATUM RL 63.00

**EARTHWORKS SECTION - C**  
SCALE 1:250

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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



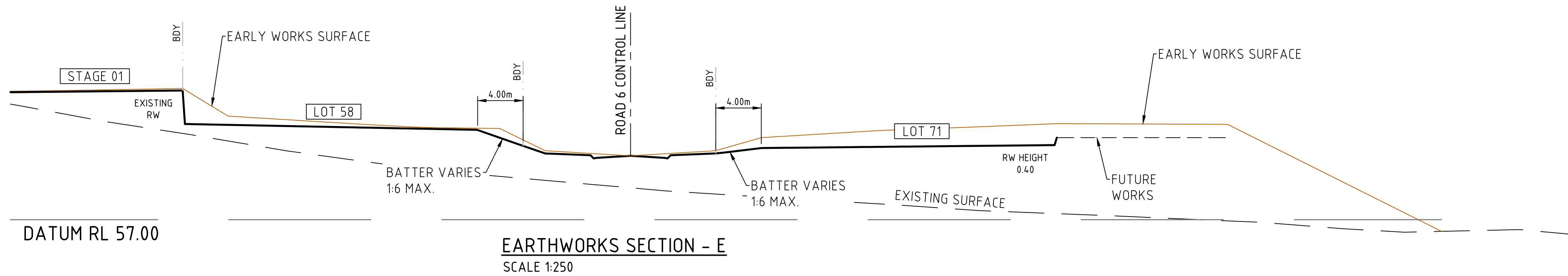
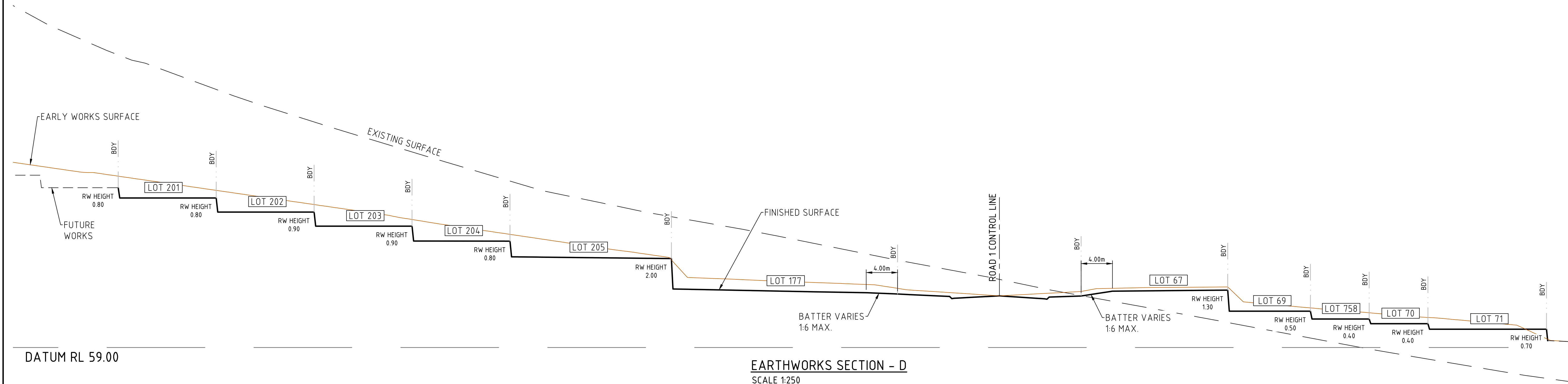
Designed  
**T. MULLEN**  
Authorised  
**M. READMAN RPEQ 28295**

Checked  
**K. HOWELLS**  
Date  
**DECEMBER 23**

**AMORY AT RIPLEY**  
**STAGE 01B**  
**EARTHWORKS SITE SECTIONS**  
**SHEET 1 OF 2**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01B-CR203** Rev **1**





Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1:250  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
EARTHWORKS SITE SECTIONS  
SHEET 2 OF 2  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01B-CR204 Rev 1



DESIGN PAVEMENT PROFILE - TYPE A

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A*
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		
UPPER SUBBASE	TYPE 2.3 (MIN CBR 45)	100
LOWER SUBBASE	TYPE 2.5 (MIN CBR 15)	155
TOTAL PAVEMENT DEPTH		415

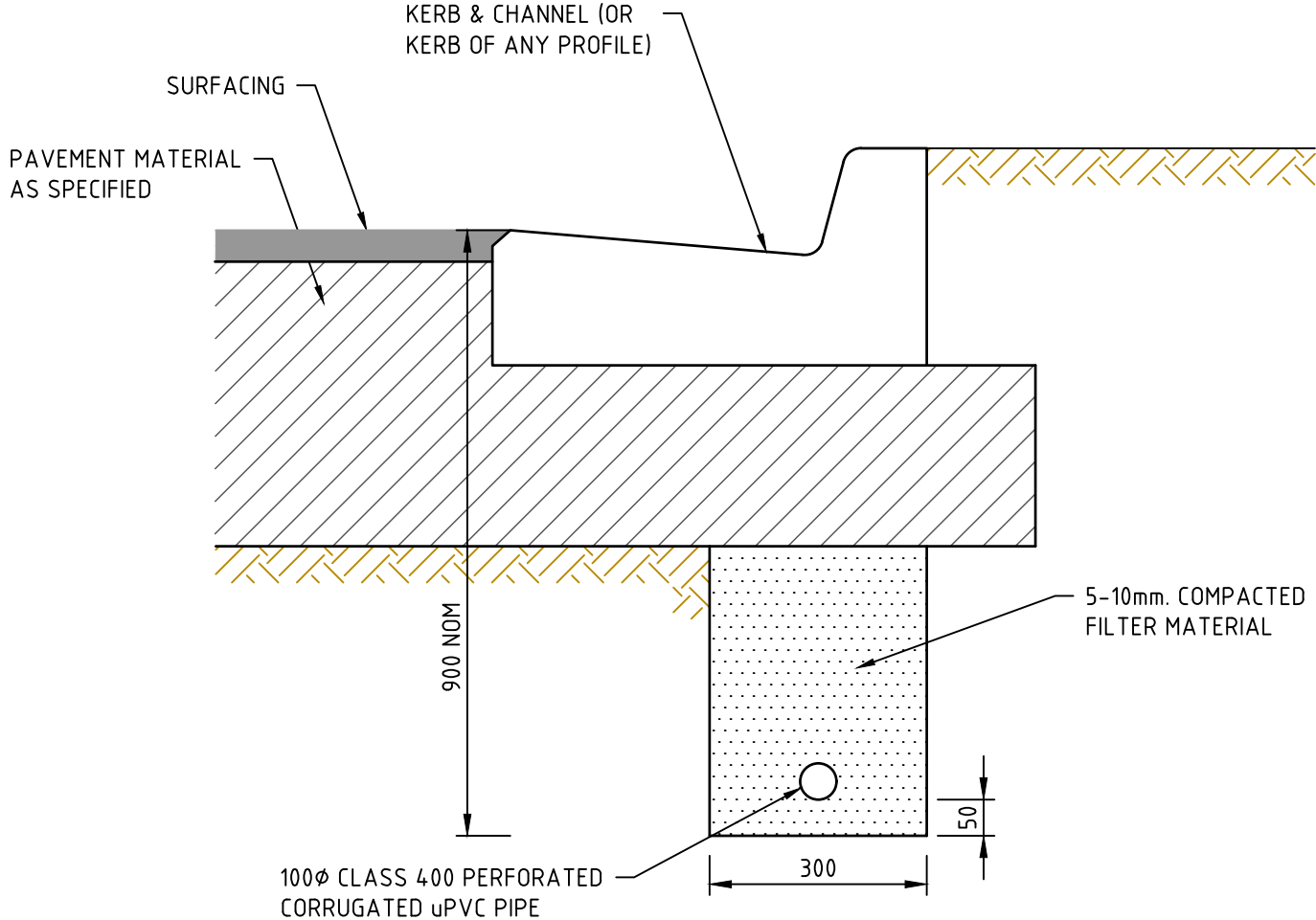
DESIGN PAVEMENT PROFILE- TYPE B

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		
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
ROAD 1	TYPE B
ROAD 3	TYPE A
ROAD 5	TYPE A
ROAD 6	TYPE A

**NOTE:**

THE PAVEMENT DEPTHS ARE INDICATIVE ONLY. PAVEMENT DESIGN IS SUBJECT TO CONFIRMATION WITH GEOTECHNICAL TESTING AND RPEQ CERTIFIED PAVEMENT DESIGN REPORT.



SUBSURFACE PAVEMENT DRAIN

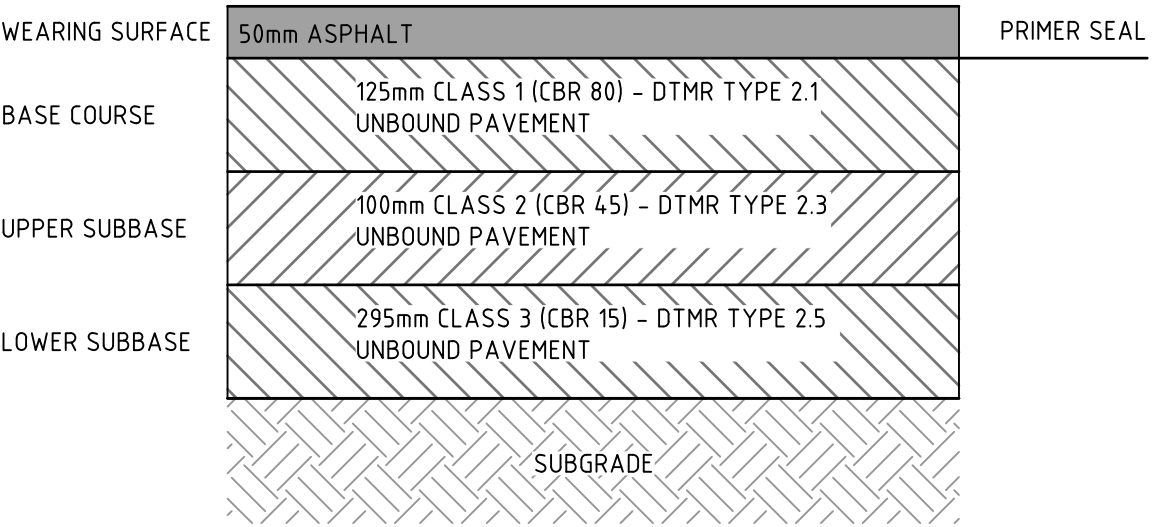
REFER TO ICC STANDARD DWG NO. SR.20  
NOT TO SCALE

MEDIAN INFILL

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

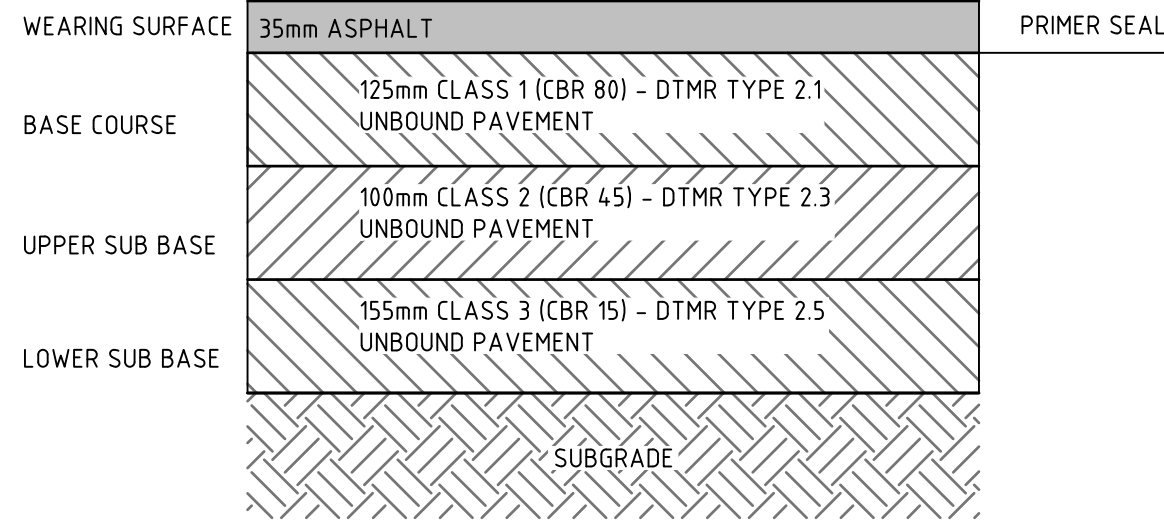
FOOTPATHS

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



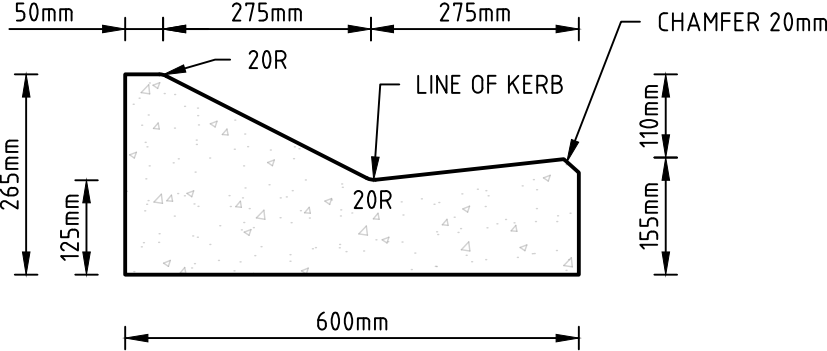
PAVEMENT TYPE A

ROAD 3, 5 & 6



PAVEMENT TYPE B

ROAD 1

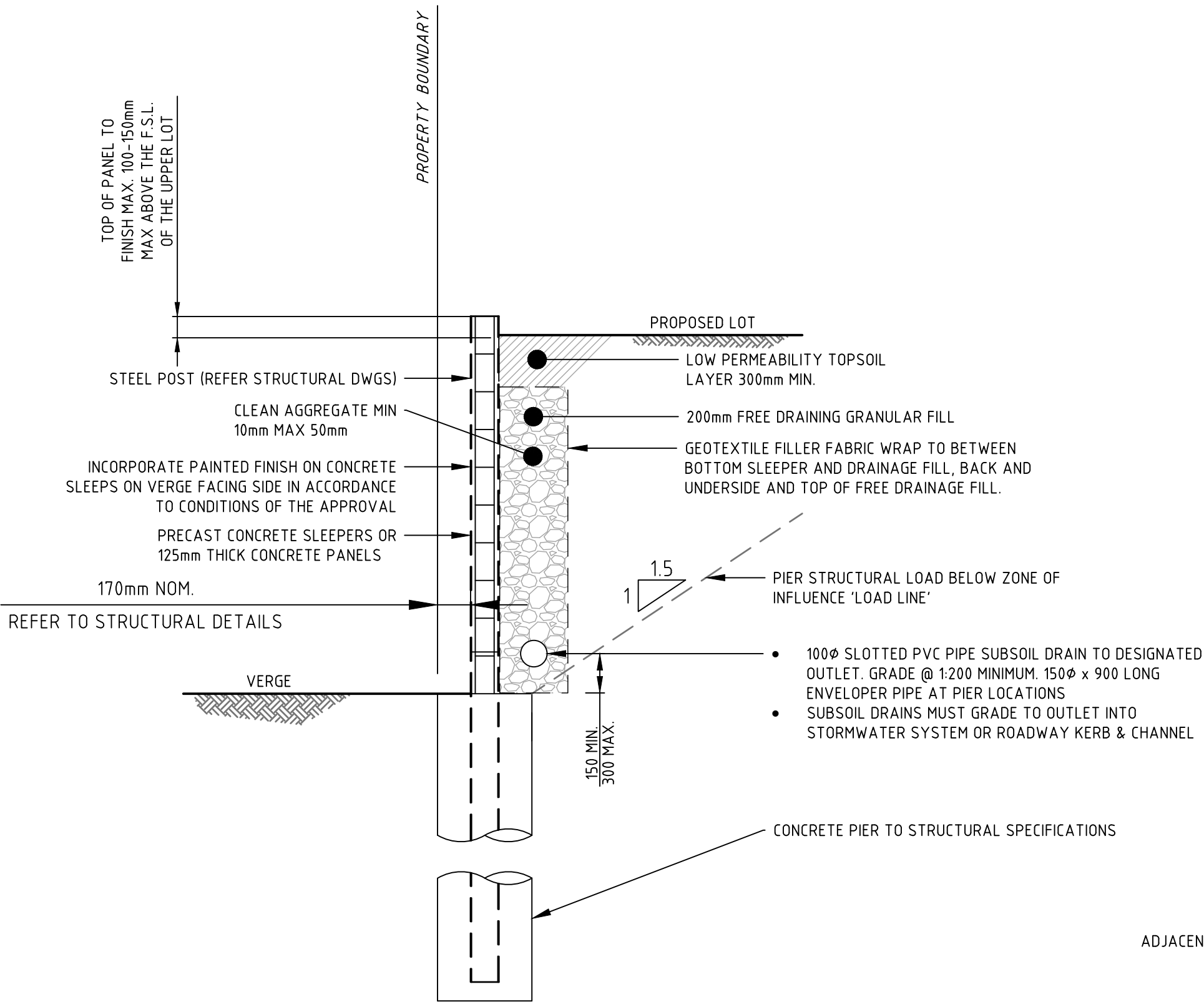


TYPE M1  
MOUNTABLE KERB

N.T.S

STANDARD KERB PROFILES

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

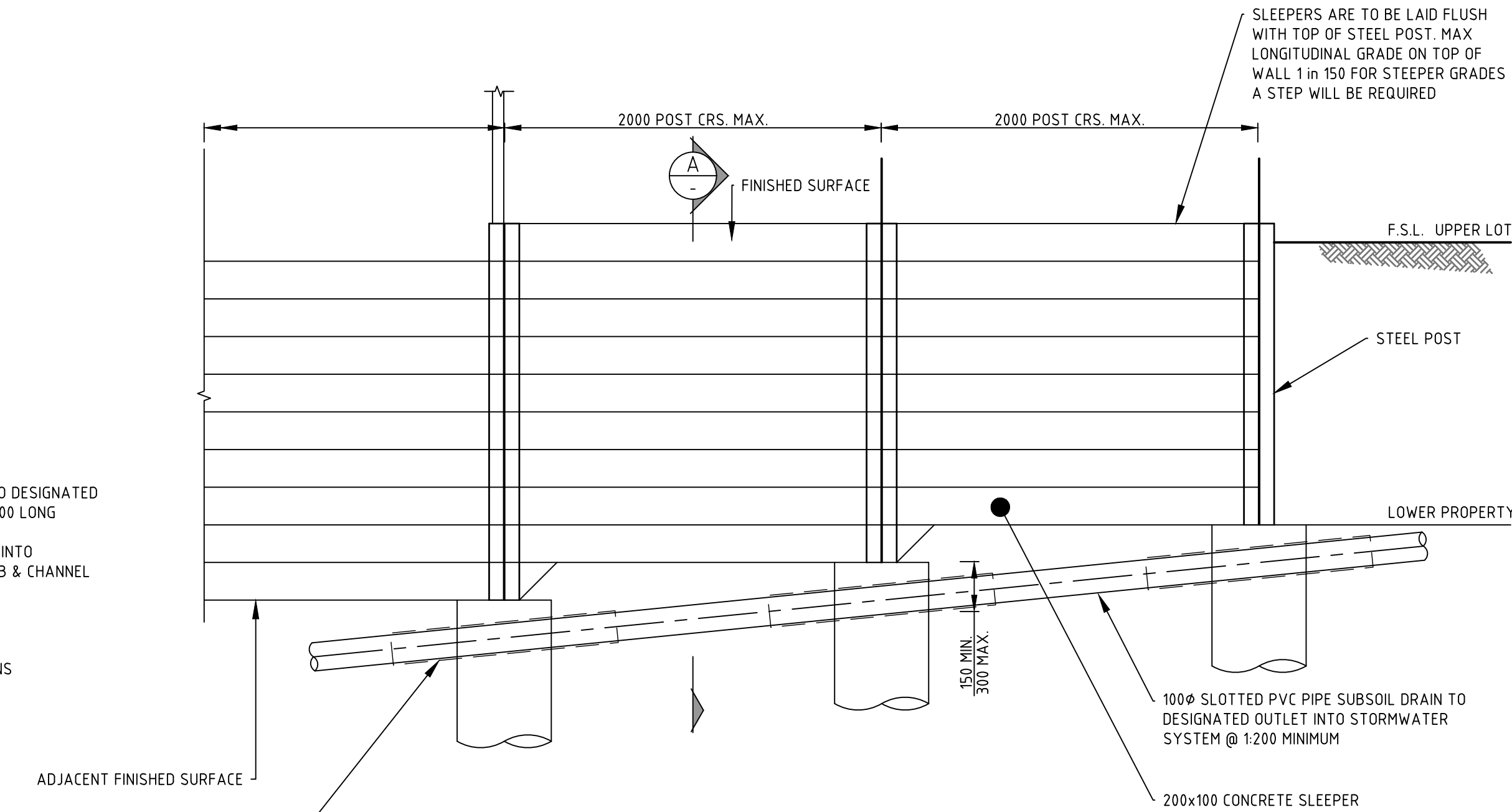


RETAINING WALL FRONTING ROAD RESERVE

Scale 1: 25

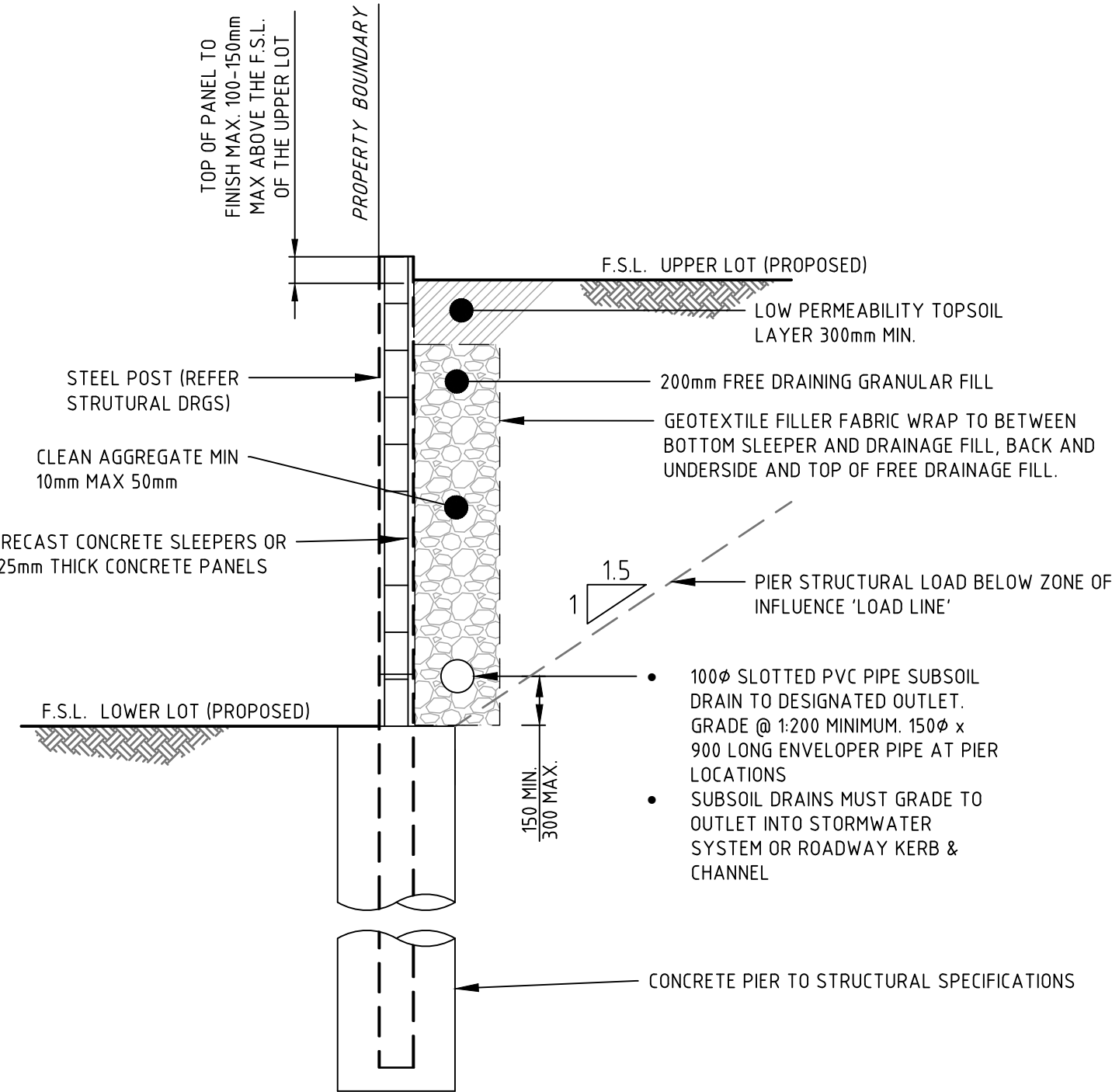
RETAINING WALL FRONTING ROAD RESERVE NOTE:-

CONTRACTOR TO CONFIRM STRUCTURAL DETAILS TO ENSURE ALL RETAINING WALL FOOTINGS ARE WITHIN PRIVATE PROPERTY.



TYPICAL RETAINING WALL PART ELEVATION

Scale 1: 25



SECTION - A

Scale 1: 25

IMPORTANT NOTES:-

RETAINING WALLS/PROPERTY BOUNDARY

1. RETAINING WALL STRUCTURE (INCLUDING FOOTING) MUST NOT ENCR OACH BEYOND PROPERTY BOUNDARY ONTO EXTERNAL PROPERTY OWNED BY OTHERS, OR COUNCIL PROPERTY.
2. FOOTING OF RETAINING WALL IS ONLY PROPOSED TO ENCR OACH OVER BOUNDARY ONTO OTHER LOTS WITHIN PROPOSED DEVELOPMENT - WHICH ARE PROPOSED TO HAVE COVENANT (OR EASEMENT) WHICH PERMITS SUCH ENCR OACHMENT.
3. THE CONTRACTOR SHALL ENSURE THAT PROPERTY BOUNDARIES ARE PEGGED ON-SITE AND RETAINING WALL LOCATIONS VERIFIED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
4. THE BOUNDARY / RETAINING WALL CONFIGURATIONS DETAILS SHOWN ARE TYPICAL DETAILS ONLY. THE CONTRACTOR MUST ASCERTAIN WHICH CONFIGURATION APPLIES AT ALL LOCATIONS.
5. SHOULD ANY DOUBT EXIST TO THE REQUIRED LOCATION OF RETAINING WALL - THE CONTRACTOR SHALL SEEK DIRECTION FROM THE SUPERINTENDENT.

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23



**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.



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

CONSTRUCT 3.0m WIDE CONCRETE FOOTPATH IN-  
ACCORDANCE WITH ICC-STD-DWG SR.19.  
NEATLY JOIN TO EXISTING FOOTPATH


144  
REFER DRAWING 320678-01B-CR312 FOR  
ROADWORKS INTERSECTION DETAILS

FOR CONTINUATION REFER TO DRG 320678-01B-CR302

ROADWORKS LAYOUT PLAN - SHEET 1 OF 3

SCALE 1:250

H 1:250  
SCALE @ A1




© Spiire Australia Pty Ltd All Rights Reserved

**spiire**

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



AMORY  
AT RIPLEY

Designed T. MULLEN	Checked K. HOWELLS
Authorised M. READMAN RPEQ 28295 	Date DECEMBER 23

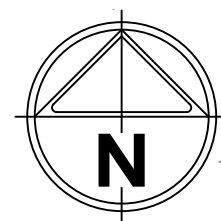
# AMORY AT RIPLEY STAGE 01B

## ROADWORKS LAYOUT PLAN SHEET 1 OF 3

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION**      Drg No **320678-01B-CR301**      Rev **1**





FOR CONTINUATION REFER TO DRG 320678-01B-CR301

REFER DRAWING 320678-01B-CR312 FOR  
ROADWORKS INTERSECTION DETAILS

FOR WATER DRAWINGS  
REFER TO DRAWING SET  
320678-01B-CR700  
SERIES

BATTER FINISHED SURFACE TO  
BULK EARTHWORKS DESIGN. 1:4  
MAX TEMPORARY BATTER

SWD TO BE CAPPED FOR  
FUTURE CONNECTION

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

CONSTRUCT 3.0m WIDE CONCRETE  
FOOTPATH IN ACCORDANCE WITH  
ICC-STD-DWG SR.19. NEATLY JOIN TO  
EXISTING FOOTPATH

BATTER FINISHED SURFACE TO  
BULK EARTHWORKS DESIGN. 1:4  
MAX TEMPORARY BATTER

SWD TO BE CAPPED FOR  
FUTURE CONNECTION

STAGE 02A WORKS  
REFER TO DRAWING SET 320678-02A

CONSTRUCT 1.5m 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

**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 LAYOUT PLAN - SHEET 2 OF 3

SCALE 1:250

H 1:250  
SCALE @ A1

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the  
benefit of and use by the client in accordance with the terms of the  
retainer. Spiire Australia Pty Ltd does not and shall not assume any  
responsibility or liability whatsoever to any third party arising out of  
any use or reliance by third party on the content of this document.

**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

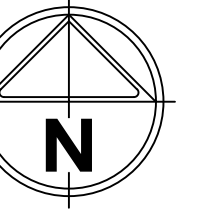
**AMORY**  
AT RIPLEY

Designed  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

**AMORY AT RIPLEY  
STAGE 01B  
ROADWORKS LAYOUT PLAN  
SHEET 2 OF 3**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01B-CR302 Rev  
1



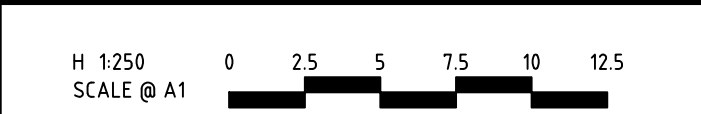


FOR CONTINUATION REFER TO DRG 320678-01B-CR302

**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 LAYOUT PLAN - SHEET 3 OF 3  
SCALE 1:250

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23



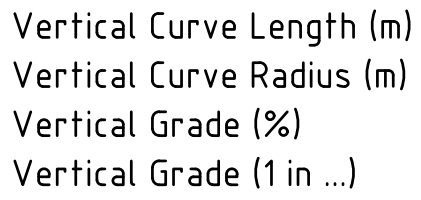
© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

**AMORY AT RIPLEY**  
STAGE 01B  
ROADWORKS LAYOUT PLAN  
SHEET 3 OF 3  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD  
**CONSTRUCTION**  
Drg No  
320678-01B-CR303  
Rev  
1

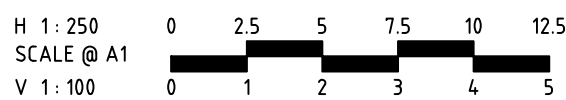




SCALE      HORIZONTAL 1 : 250  
             VERTICAL 1 : 100

CONTROL LINE - ROAD 1 - HORIZONTAL POINTS					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
CT	210.000	994.4.262	37074.776	62.797	196°06'45.30"
	219.503	994.1.481	37065.689	62.512	197°55'39.23"
	220.000	994.1.328	37065.217	62.497	197°55'39.23"
	230.000	9938.250	37055.702	62.221	197°55'39.23"
	24.000	9935.172	3704.6.188	62.094	197°55'39.23"
TC	250.000	9932.093	37036.673	62.133	197°55'39.23"
	260.000	9929.015	37027.159	62.316	197°55'39.23"
	269.290	9926.156	37018.319	62.501	197°55'39.23"
	270.000	9925.932	37017.644	62.516	198°44'26.45"
	280.000	9921.797	37008.559	62.716	210°11'59.41"
IP 3	290.000	9915.939	37000.475	62.916	221°39'32.37"
	293.938	9917.888	36992.765	62.994	
	300.000	9908.592	36993.716	63.125	233°07'05.33"
CT	310.000	9900.048	36988.552	63.486	244°34'38.29"
	318.585	9892.016	36985.549	63.956	254°24'54.55"
	320.000	9890.654	36985.168	64.047	254°24'54.55"

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

# AMORY AT RIPLEY

## STAGE 01B

### ROAD 1 LONGITUDINAL SECTIONS

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

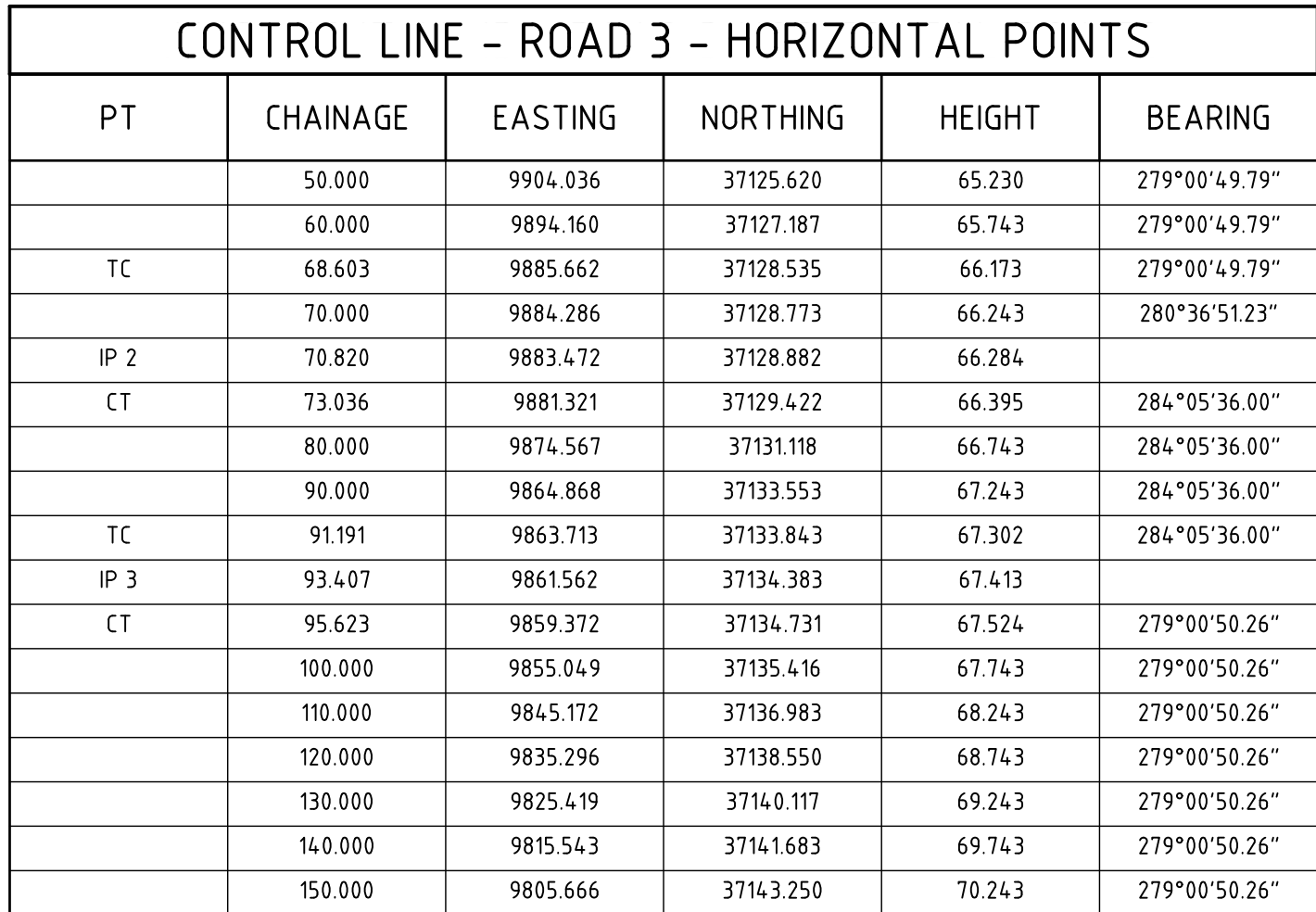
**CONSTRUCTION** Drg No **320678-01B-CR304**

Rev



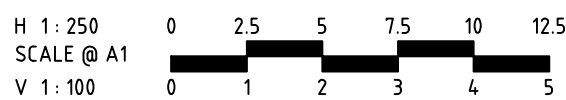






SCALE            HORIZONTAL 1 : 250  
                     VERTICAL 1 : 100

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date




© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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 T. MULLEN	Checked K. HOWELLS
Authorised M. READMAN RPEQ 28295 	Date DECEMBER 23

# AMORY AT RIPLEY

## STAGE 01B

### ROAD 3 LONGITUDINAL SECTIONS

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01B-CR306 Rev 1







CONTROL LINE - ROAD 5 - HORIZONTAL POINTS					POINTS			
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9934.141	37042.983	62.089	279°00'50.74"			
	10.000	9924.265	37044.550	61.793	279°00'50.74"			
	20.000	9914.388	37046.116	61.631	279°00'50.74"			
	30.000	9904.512	37047.683	61.981	279°00'50.74"			
	40.000	9894.635	37049.250	62.719	279°00'50.74"			
TC	40.590	9894.053	37049.342	62.762	279°00'50.74"			
IP 2	43.395	9891.281	37049.782	62.969		R = 100.000	5.611	3°12'52.84"
CT	46.200	9888.539	37050.376	63.177	282°13'43.57"			
	50.000	9884.825	37051.181	63.457	282°13'43.57"			
	60.000	9875.052	37053.299	64.195	282°13'43.57"			
	70.000	9865.279	37055.418	64.934	282°13'43.57"			
TC	74.468	9860.912	37056.364	65.263	282°13'43.57"			
IP 3	77.274	9858.170	37056.958	65.471		R = -100.000	5.611	3°12'53.44"
	80.000	9855.476	37057.386	65.672	279°03'33.60"			
CT	80.079	9855.398	37057.398	65.678	279°00'50.14"			
	90.000	9845.600	37058.952	66.410	279°00'50.14"			
	100.000	9835.723	37060.519	67.148	279°00'50.14"			
	110.000	9825.847	37062.086	67.887	279°00'50.14"			
	120.000	9815.970	37063.653	68.625	279°00'50.14"			
	130.000	9806.094	37065.219	69.363	279°00'50.14"			

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

DATUM RL54.000

DESIGN LEVELS LEFT LIP OF KERB	REFER TO DRAWING 320678-01B-CR312 & CR313 FOR INTERSECTION LEVELS											
DESIGN LEVELS RIGHT LIP OF KERB												
CUT / FILL DEPTH	-1.547	-2.616	-3.263	-3.839	-4.016	-4.058	-4.135	-4.436	-4.647	-5.113	-5.473	-7.582
DESIGN LEVELS ON ROAD CL	62.089	61.851	61.726	61.651	61.634	61.628	61.689	61.689	61.953	64.195	65.263	67.059
EXISTING SURFACE ON ROAD CL	63.636	64.466	64.989	65.490	65.650	65.603	65.763	66.125	66.599	69.308	70.737	74.731
CHAINAGE	0.000	7.940	12.940	17.940	19.625	20.818	24.625	29.625	40.000	60.000	74.468	100.000

Vertical Curve Length (m)

Vertical Curve Radius (m)

Vertical Grade (%)

Vertical Grade (1 in ...)

L 10.00

R 500

-3.00%

-33.33

L 10.00

R 119

-1.00%

-00.00

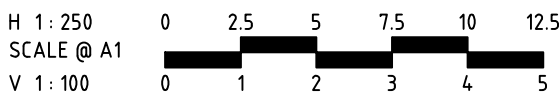
7.38%

13.55

LONGITUDINAL SECTION - ROAD 5

SCALE HORIZONTAL 1 : 250  
VERTICAL 1 : 100

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
ROAD 5 LONGITUDINAL SECTIONS

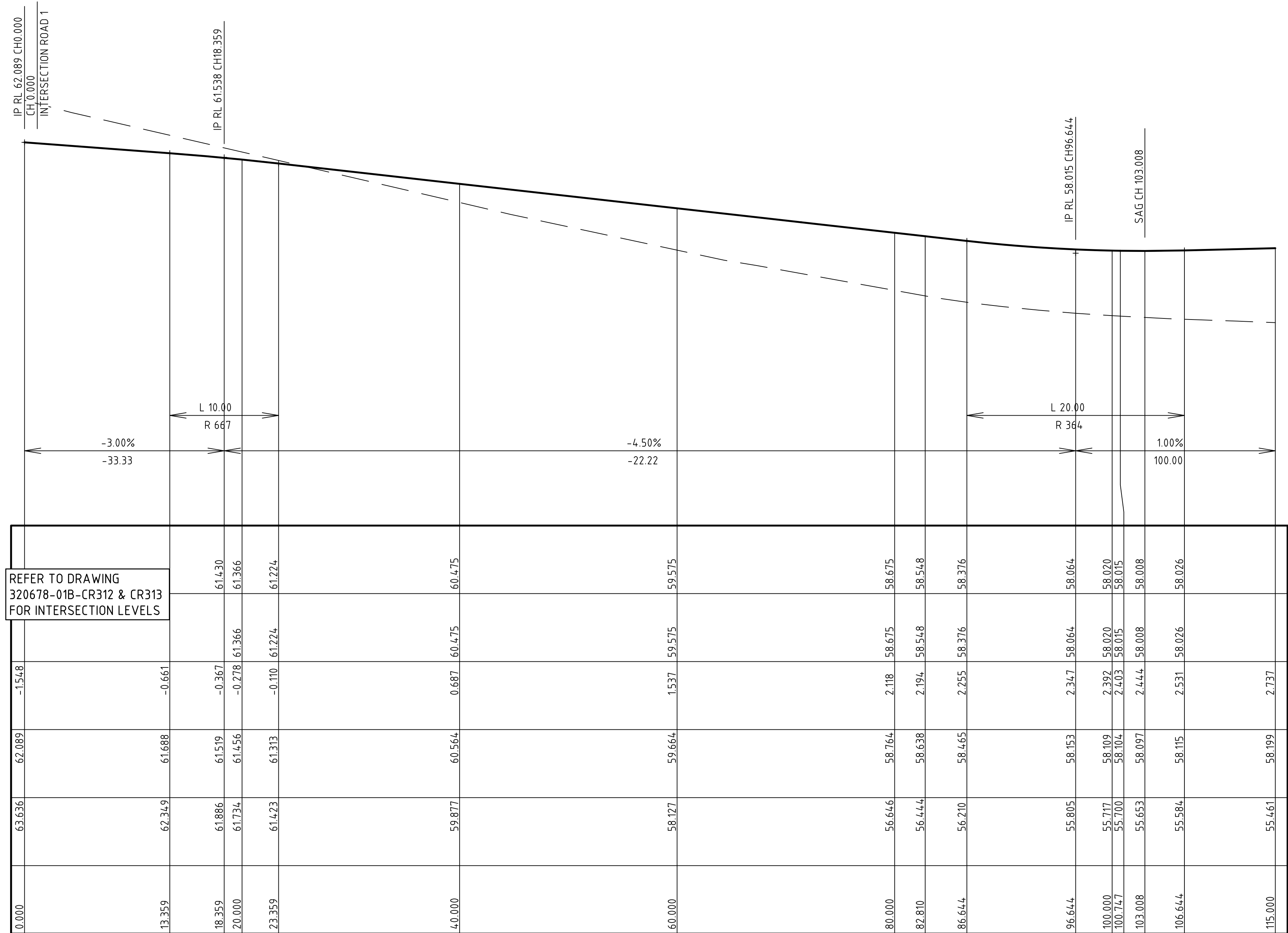
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01B-CR308 Rev  
1









SCALE      HORIZONTAL 1: 250  
              VERTICAL 1: 100

CONTROL LINE - ROAD 6 - HORIZONTAL POINTS					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	9934.134	37042.984	62.089	99°00'49.48"
	10.000	9944.010	37041.147	61.789	99°00'49.48"
	20.000	9953.887	37039.851	61.456	99°00'49.48"
	30.000	9963.763	37038.284	61.014	99°00'49.48"
	40.000	9973.640	37036.717	60.564	99°00'49.48"
	50.000	9983.516	37035.151	60.114	99°00'49.48"
	60.000	9993.393	37033.584	59.664	99°00'49.48"
	70.000	10003.269	37032.017	59.214	99°00'49.48"
TC	80.000	10013.146	37030.450	58.764	99°00'49.48"
	82.810	10015.921	37030.010	58.638	99°00'49.48"
IP 2	90.000	10023.089	37029.741	58.330	85°16'56.05"
	91.779	10025.053	37028.562	58.270	
	100.000	10032.736	37032.194	58.109	66°11'01.11"
CT	100.747	10033.415	37032.504	58.104	64°45'25.45"
	110.000	10041.785	37036.450	58.149	64°45'25.45"
	120.000	10050.830	37040.715	58.249	64°45'25.45"

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

**AMORY AT RIPLEY**  
**STAGE 01B**  
**ROAD 6 LONGITUDINAL SECTIONS**

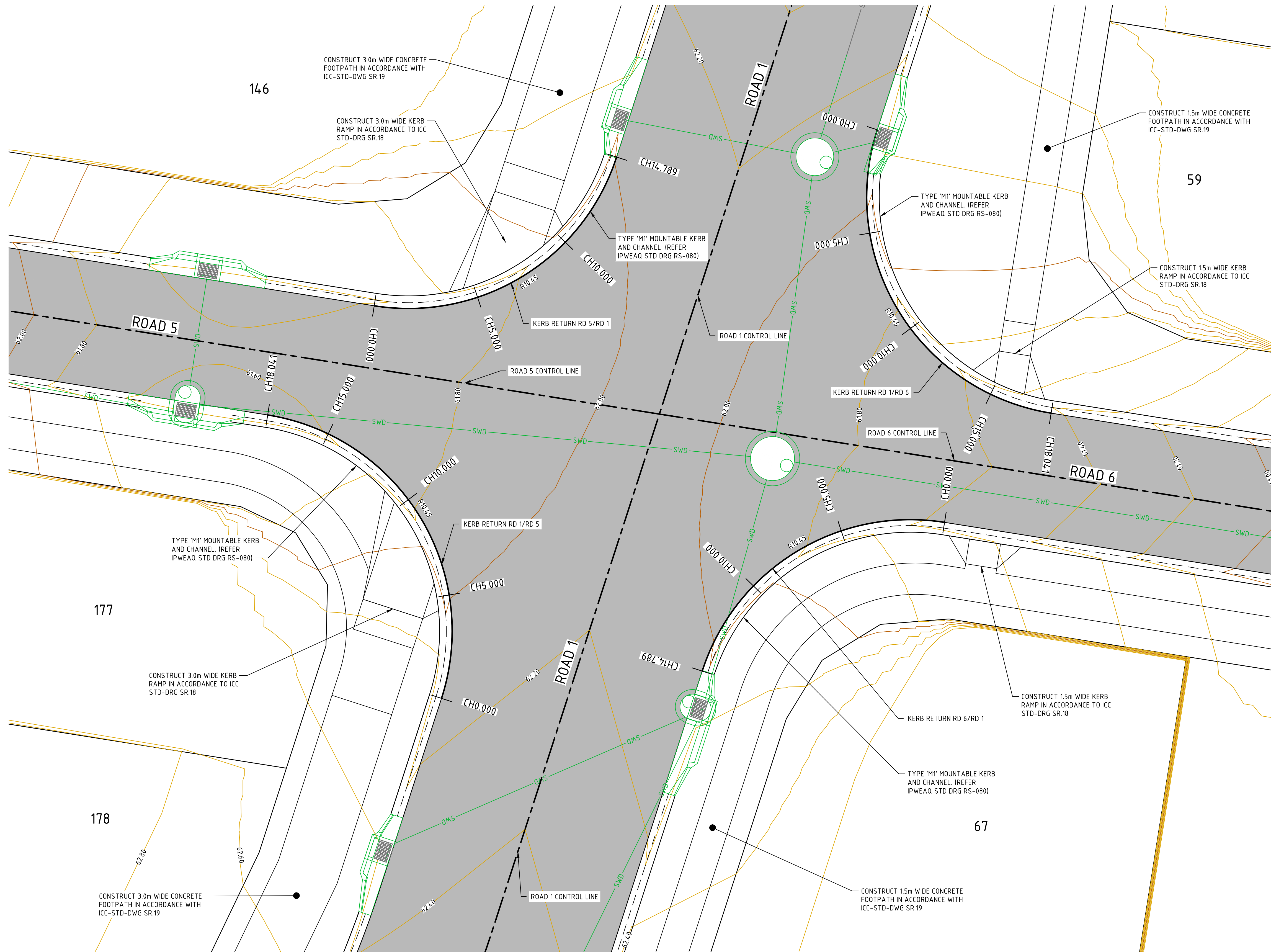
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01B-CR310** R









INTERSECTION DETAIL PLAN - ROAD 1/ROAD 5/ROAD 6

SCALE 1:100

file name: 320678-01B-CR312.dwg layout name: CR312 plotted by: Tim Mullen

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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



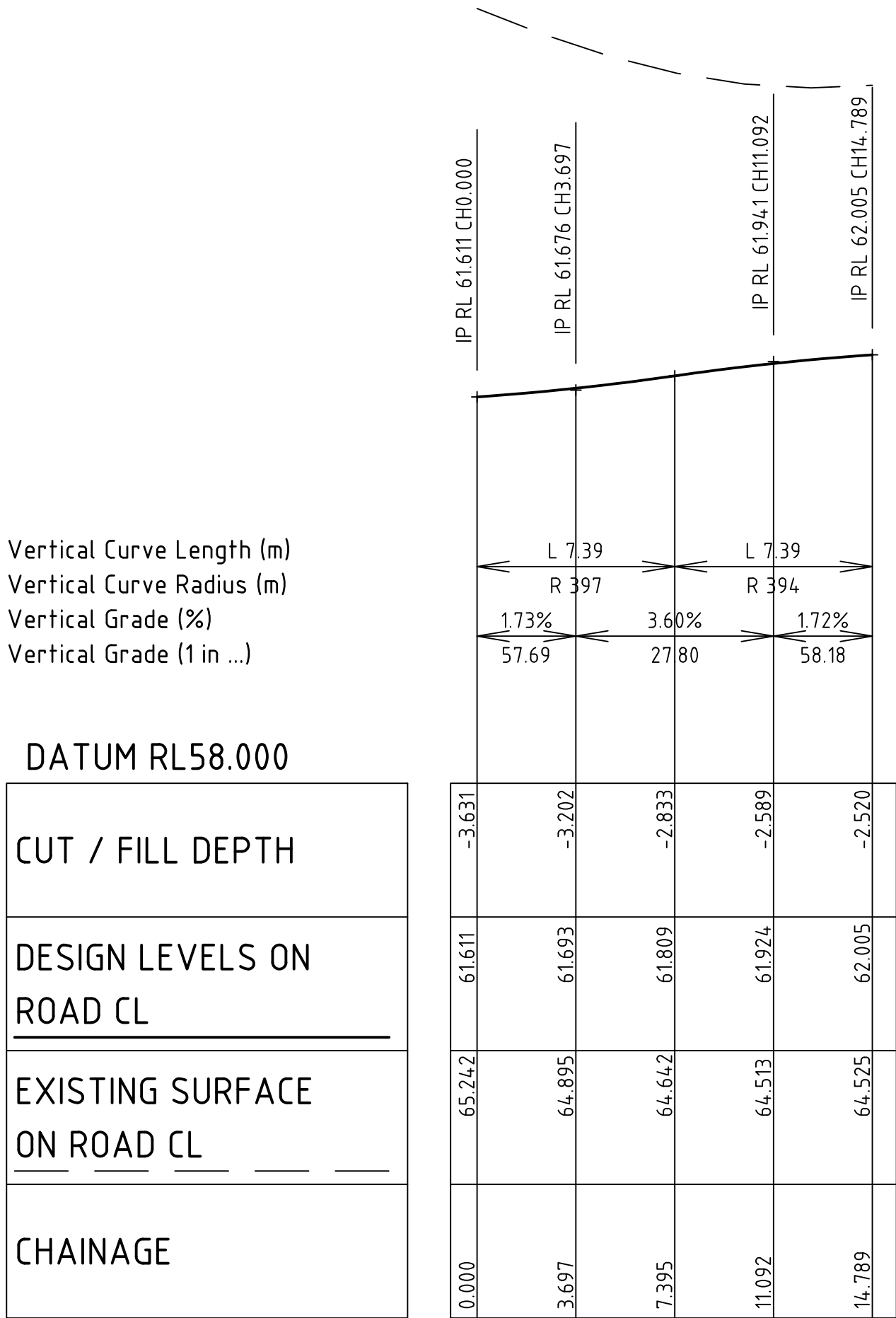
Designed  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
ROAD 1/ROAD 5/ROAD 6 INTERSECTION DETAIL PLAN  
SHEET 1 OF 2  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01B-CR312 Rev 1

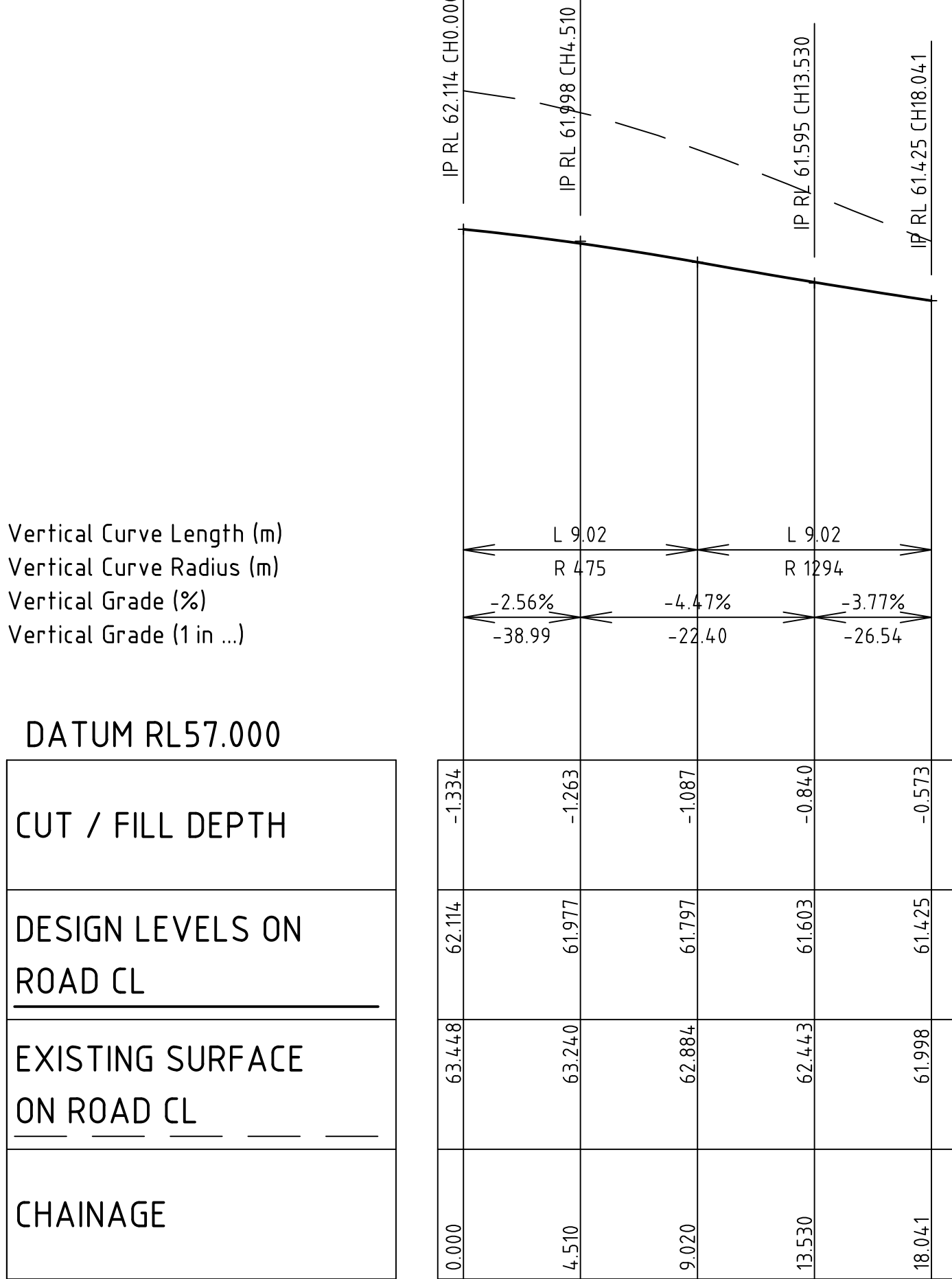


file name: 320678-01B-CR312.dwg layout name: CR312 plotted by: Tim Mullen  
FILE DETAILS



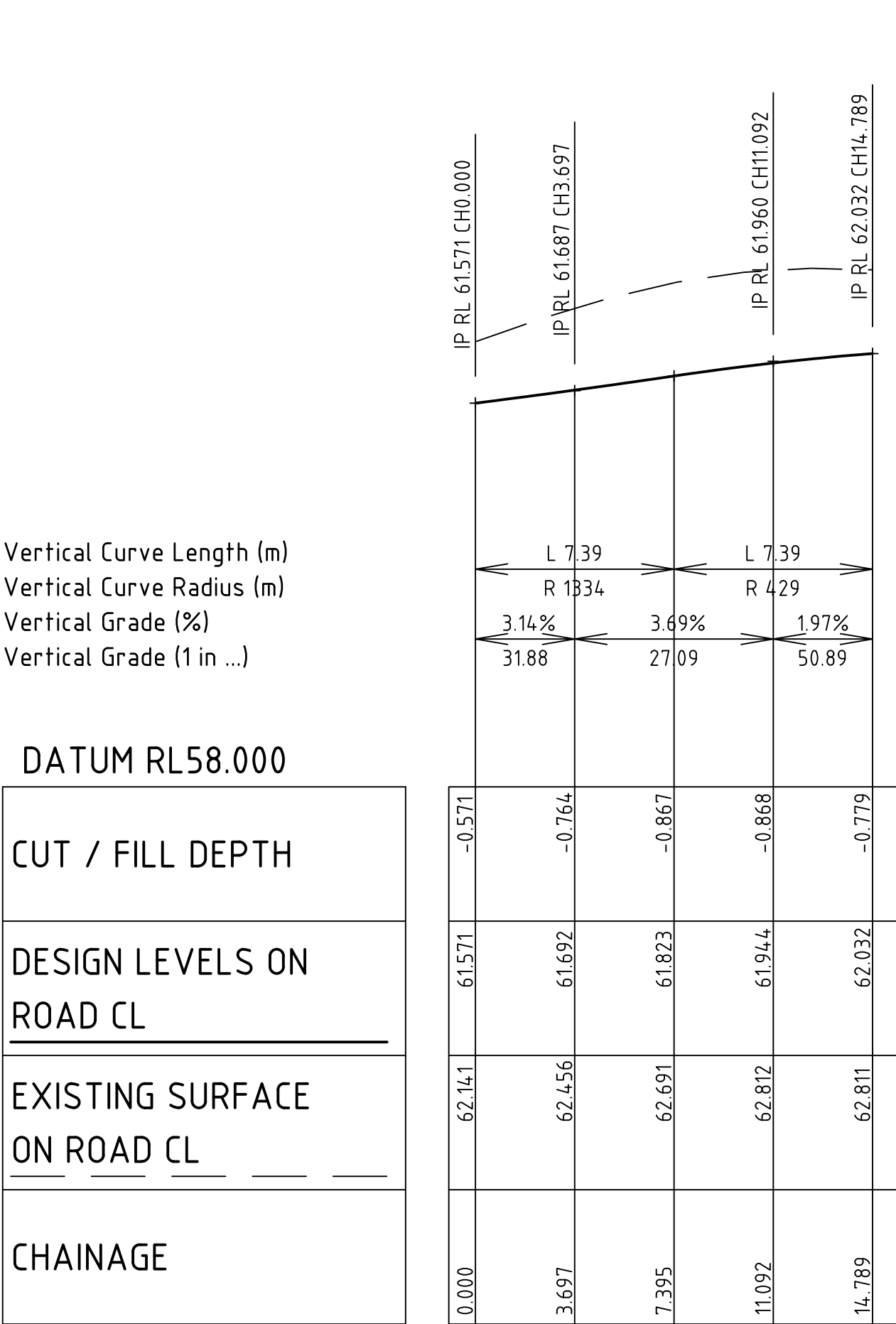
LONGITUDINAL SECTION - RD5 RD1

SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50



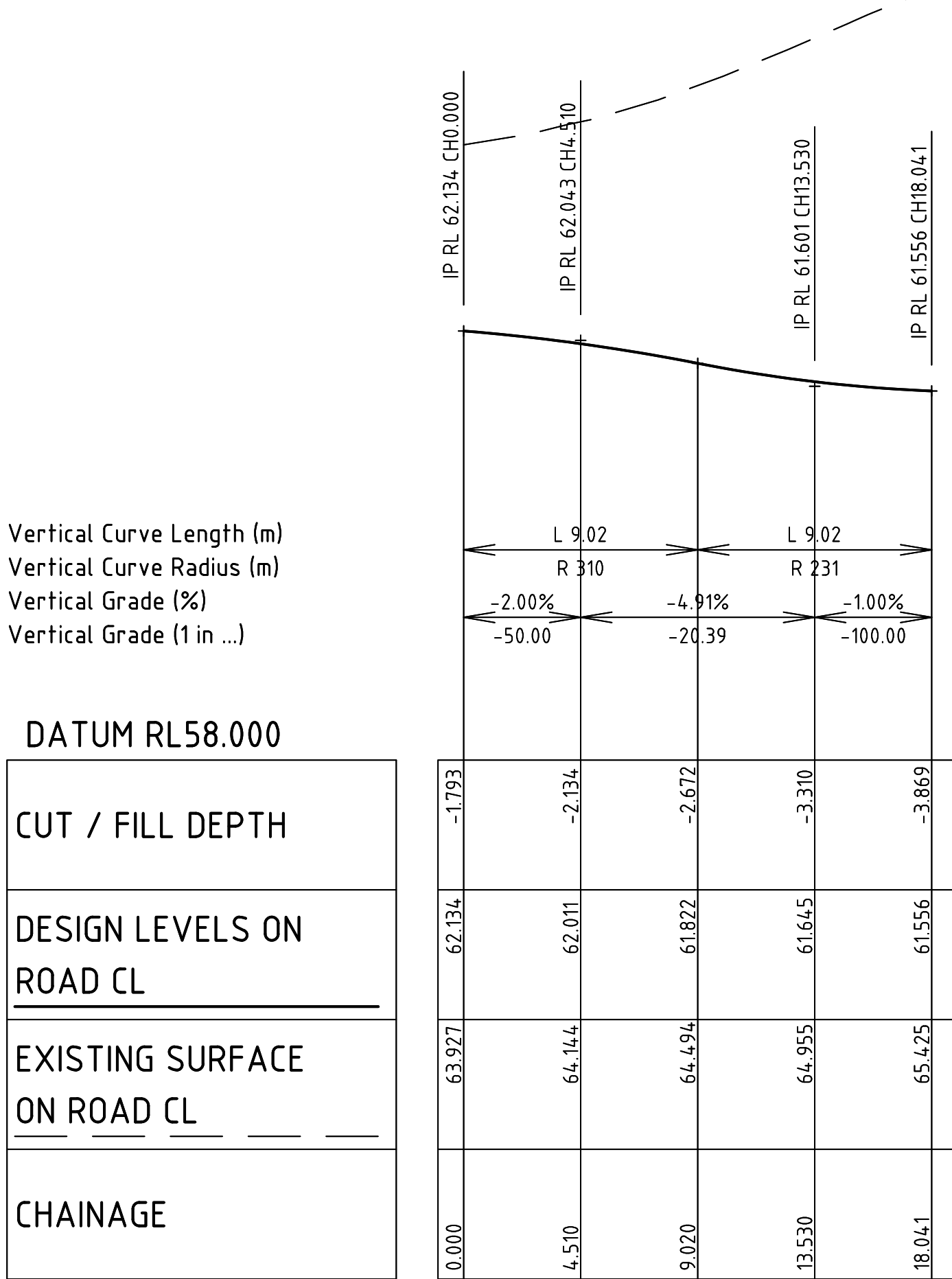
LONGITUDINAL SECTION - RD1 RD6

SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD6 RD1

SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD1 RD5

SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50

ALIGNMENT KRET 1A 1B->RD5 RD1 HORIZONTAL POINTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9920.510	37048.157	61.611	99°00'50.74"	R = -10.450	14.789	81°05'11.51"
	5.000	9925.446	37048.563	61.730	71°35'59.44"			
IP 2	7.395	9929.339	37046.757	61.809				
	10.000	9929.641	37051.195	61.894	44°11'08.15"			
IP 3	14.789	9932.090	37055.262	62.005	17°55'39.23"			

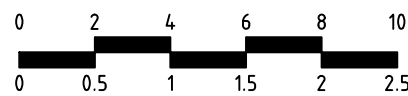
KERB RETURN - RD1 RD6 - HORIZONTAL POINTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9944.546	37056.565	62.114	197°55'39.23"	R = -10.450	18.041	98°54'49.75"
	5.000	9944.181	37051.626	61.959	170°30'47.94"			
IP 2	9.020	9940.785	37044.941	61.797				
	10.000	9946.132	37047.074	61.753	143°05'56.64"			
IP 3	15.000	9949.959	37043.931	61.543	115°41'05.35"			
	18.041	9952.851	37043.027	61.425	99°00'49.48"			

KERB RETURN - RD6 RD1 - HORIZONTAL POINTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9947.760	37037.810	61.571	279°00'49.48"	R = -10.450	14.789	81°05'10.25"
	5.000	9942.824	37037.405	61.737	251°35'58.19"			
IP 2	7.395	9938.932	37039.211	61.823				
	10.000	9938.629	37034.773	61.911	224°11'06.89"			
IP 3	14.789	9936.180	37030.706	62.032	197°55'39.23"			

KERB RETURN - RD1 RD5 - HORIZONTAL POINTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	9923.724	37029.403	62.134	17°55'39.23"	R = -10.450	18.041	98°54'48.50"
	5.000	9924.089	37034.342	61.993	350°30'47.94"			
IP 2	9.020	9927.485	37041.027	61.822				
	10.000	9922.138	37038.894	61.776	323°05'56.64"			
	15.000	9918.311	37042.037	61.606	295°41'05.35"			
	IP 3	18.041	9915.419	37042.941	61.556			

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1 : 200  
SCALE @ A1  
V 1 : 50



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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

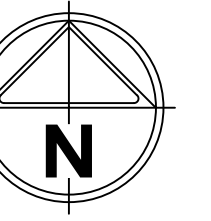
**AMORY**  
AT RIPLEY

Designed  
**T. MULLEN**  
Authorised  
**M. READMAN RPEQ 28295**  
Checked  
**K. HOWELLS**  
Date  
**DECEMBER 23**

**AMORY AT RIPLEY  
STAGE 01B  
ROAD 1/ROAD 5/ROAD 6 INTERSECTION DETAIL PLAN  
SHEET 2 OF 2**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01B-CR313** Rev **1**





- 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:

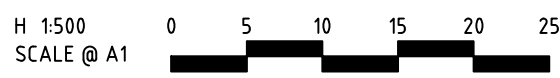
SYMBOL:	DESCRIPTION:	REMARK:
	GIVE WAY LINE	600mm LINE, 600mm GAP, 450mm WIDE. AS1742.2 CLAUSE 5.5
	CONTINUITY LINE	1m LINE, 3m GAP, 150mm WIDE. AS1742.2 CLAUSE 5.3



SIGNAGE & LINEMARKING LAYOUT PLAN

SCALE 1:500

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN

Checked  
K. HOWELLS

Authorised  
M. READMAN RPEQ 28295

Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
SIGNAGE & LINEMARKING LAYOUT PLAN

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION

Drg No  
320678-01B-CR400

Rev  
1



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 150ϕ - 225ϕ AND "SN6" FOR 100ϕ

• 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 ASTRONOMICAL 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. 150ϕ=1% Min. AND 375ϕ=0.4% Min.)
11. ANY PIPE DOWNSTREAM OF INLETS CAPTURING GROUND RUNOFF SHALL BE Min. 150ϕ.
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 PROPRIETARY 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 IPSWICH 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"

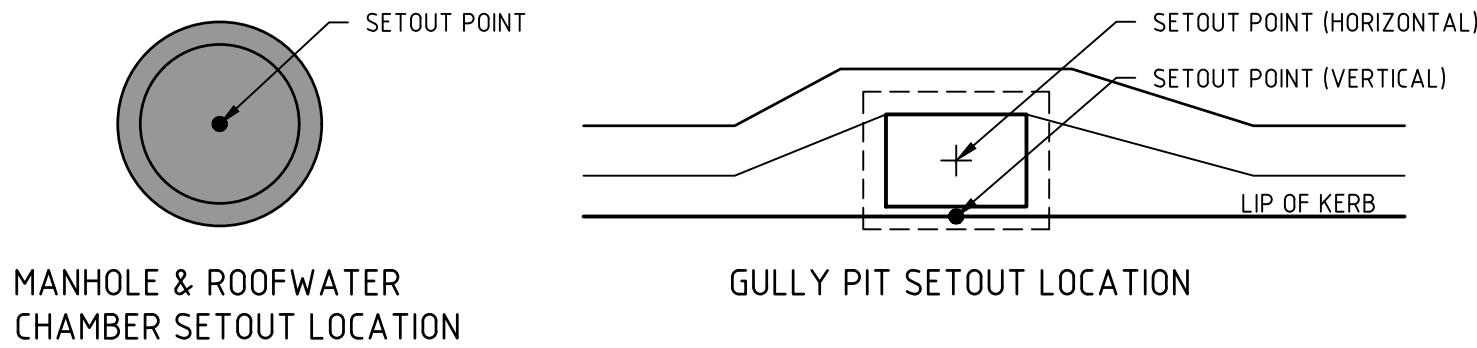
- 2 = RCP CLASS '2'

- 3 = RCP CLASS '3'

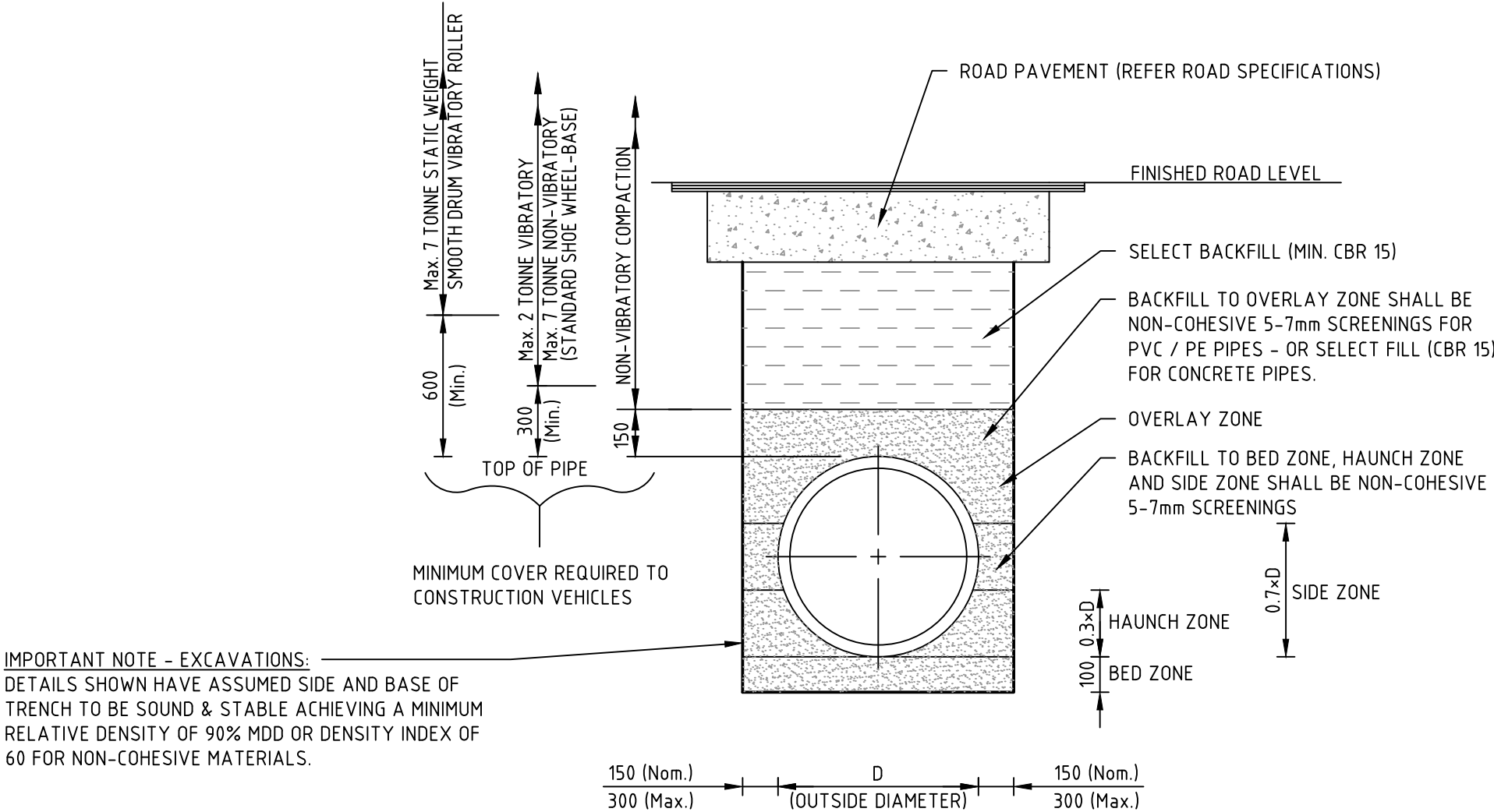
- 4 = RCP CLASS '4'

ROOFWATER CONNCTION NOTE:

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



SETOUT POINTS LOCATION DETAIL  
N.T.S



TYPICAL STORMWATER TRENCH DETAIL  
TYPE "HS2" SUPPORT - SINGLE BARREL  
N.T.S

file name: 320678-01B-CR500.dwg layout name: CR500 plotted by: Tim Mullen FILE DETAILS

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date




© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
STORMWATER DRAINAGE STANDARD NOTES & DETAILS

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

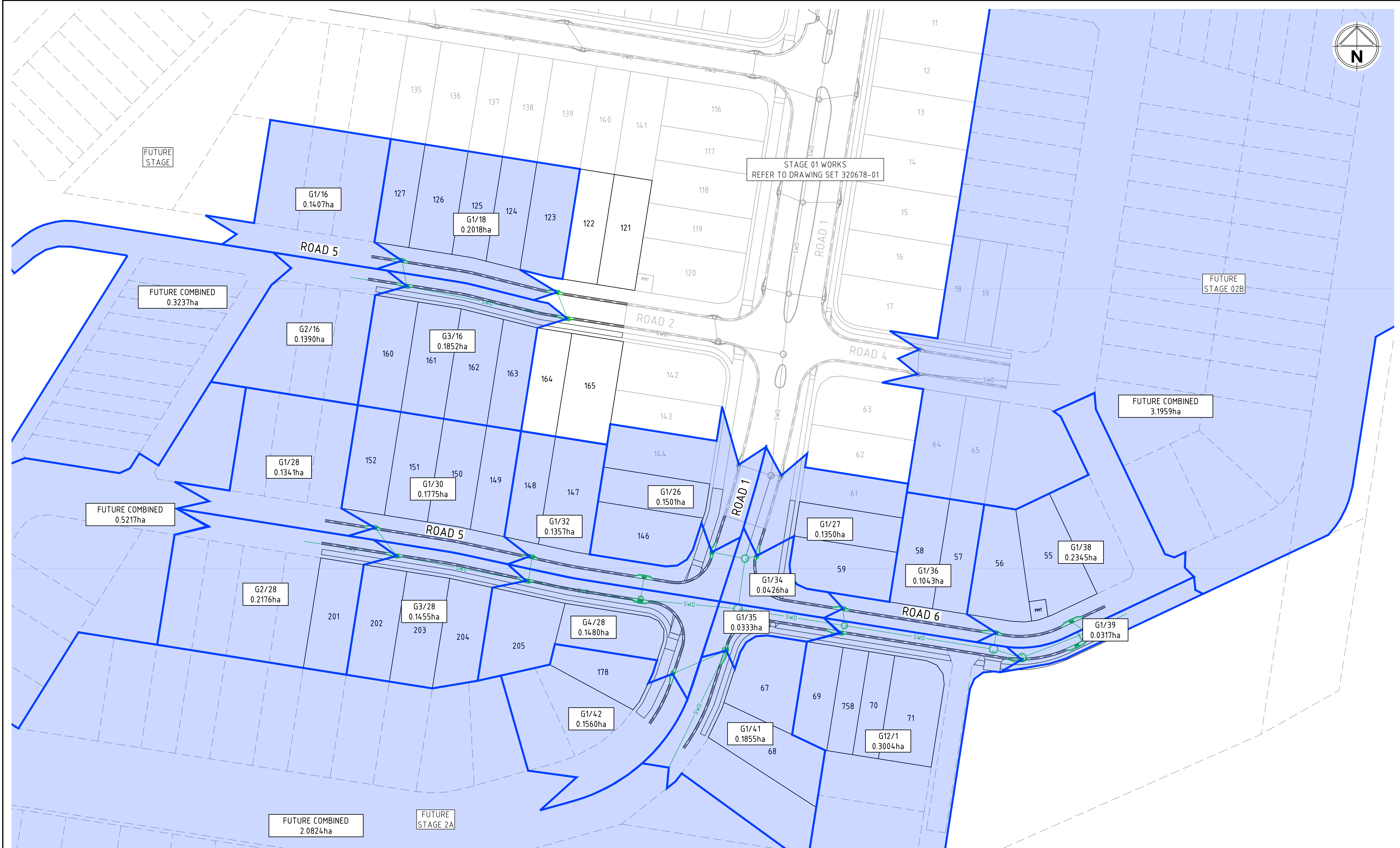
CONSTRUCTION

Drg No  
320678-01B-CR500

Rev  
1

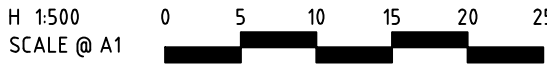
**WARNING**  
BEWARE OF UNDERGROUND/OVERHEAD SERVICES  
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY. AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY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





STORMWATER DRAINAGE CATCHMENT PLAN  
SCALE 1:500

1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
STORMWATER DRAINAGE CATCHMENT PLAN

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01B-CR501 Rev 1

file name: 320678-01B-CR501.dwg layout name: CR501 plotted by: Tim Mullen







file:spire\_320678-01B-CR502.dwg layout name:CR503 plotted by:Tim Mullen  
FILE DETAILS

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"

PIPE SIZE (mm)	375	450	450	1050
PIPE CLASS	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)
PIPE GRADE (%)	3.50%	7.25%	7.00%	2.00%
PIPE SLOPE (1 in X)	28.57	13.79	14.29	50.00
FULL PIPE VELOCITY (m/s)	0.46	1.91	2.73	0.64
PART FULL VELOCITY (m/s)	2.15	4.54	4.91	3.17
DATUM RL	55.0		50.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	66.016 65.912	65.879 65.916 65.615	63.242 63.314 62.741	61.022 61.027 61.011
PIPE FLOW (Cumecs)	0.050	0.303	0.433	0.557
PIPE CAPACITY AT GRADE (Cumecs)	0.328	0.768	0.755	3.863
DEPTH TO INVERT	14.96	1.318 1.468	14.02 15.73	1.681 2.165
INVERT LEVEL OF DRAINAGE	65.750	65.382 65.232	62.485 62.314	59.984 59.500
DESIGN SURFACE LEVEL	67.246	66.699	63.887	61.665
SETOUT COORDINATES	0.000 E 9835.321 N 37064.170	10.526 E 9841.521 N 37056.013	37.881 E 9879.100 N 37048.80	81.691 E 9911.483 N 37042.991
CHAINAGE	0.000	10.526	37.881	81.691

LINE

28

PIPE SIZE (mm)	375	450	375	375	375	525	600
PIPE CLASS	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)	RCP (CLASS 2)
PIPE GRADE (%)	1.00%	0.50%	2.00%	2.18%	2.00%	2.05%	2.00%
PIPE SLOPE (1 in X)	100.00	200.00	50.00	45.91	50.00	48.79	50.00
FULL PIPE VELOCITY (m/s)	0.63	0.40	0.16	0.21	0.20	0.34	0.13
PART FULL VELOCITY (m/s)	1.50	1.12	1.29	1.40	1.62	2.02	1.54
DATUM RL	52.0	49.0	46.0	46.0	44.0	43.0	43.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.361 63.254	61.076 61.025	59.266 59.254	59.278 59.257	57.903 57.891	57.483 57.449	57.454 57.448
PIPE FLOW (Cumecs)	0.070	0.063	0.017	0.023	0.043	0.096	0.038
PIPE CAPACITY AT GRADE (Cumecs)	0.175	0.202	0.248	0.248	0.608	0.869	0.869
DEPTH TO INVERT	14.24	15.65	1.634	1.622	2.041	2.026	1.923
INVERT LEVEL OF DRAINAGE	62.450	60.100	59.160	59.150	56.750	56.100	56.200
DESIGN SURFACE LEVEL	63.874	61.665	60.794	60.772	58.791	58.126	58.123
SETOUT COORDINATES	0.000 E 9880.401 N 37055.765	7.105 E 9879.383 N 37048.736	7.085 E 9912.593 N 37049.988	2.414 E 9970.119 N 37036.010	4.792 E 10013.669 N 37033.954	5.592 E 10039.746 N 37034.052	4.833 E 10036.893 N 37030.228
CHAINAGE	7.105	7.105	7.085	2.414	4.792	5.592	4.833

30

32

34

35

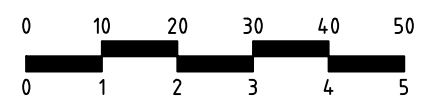
36

38

39

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1:1000  
SCALE @ A1  
V 1:100



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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 <b>T. MULLEN</b>	Checked <b>K. HOWELLS</b>
Authorised <b>M. READMAN RPEQ 28295</b>	Date <b>DECEMBER 23</b>

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

**CONSTRUCTION** Drg No **320678-01B-CR503** Rev **1**



file:asap-320678-01B-CR502.dwg layout name:CR504, plotted by: Tim Mullen  
FILE DETAILS

## STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 3

SCALE HORIZONTAL 1:100  
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'

PIPE SIZE (mm)	750	900
PIPE CLASS	RCP (CLASS 2)	RCP (CLASS 2)
PIPE GRADE (%)	2.25%	0.50%
PIPE SLOPE (1 in X)	44.46	200.00
FULL PIPE VELOCITY (m/s)	1.78	1.43
PART FULL VELOCITY (m/s)	3.72	2.19
DATUM RL	47.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.993 61.650 61.162 61.185	61.034 61.002 61.191
PIPE FLOW (Cumecs)	0.785	0.913
PIPE CAPACITY AT GRADE (Cumecs)	1.670	1.281
DEPTH TO INVERT	1.784	1.925
INVERT LEVEL OF DRAINAGE	61.100	60.257
DESIGN SURFACE LEVEL	62.884	62.083
SETOUT COORDINATES	0.000 E 9919.671 N 36995.230	37.469 E 9936.200 N 37028.843
CHAINAGE	0.000 37.469 12.470 49.939	59.861 61.191 2.988
LINE	40	

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)	0.57
PART FULL VELOCITY (m/s)	1.59
DATUM RL	48.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.311 61.156 61.153 61.180
PIPE FLOW (Cumecs)	0.091
PIPE CAPACITY AT GRADE (Cumecs)	0.285
DEPTH TO INVERT	1.583
INVERT LEVEL OF DRAINAGE	60.600
DESIGN SURFACE LEVEL	62.103
SETOUT COORDINATES	0.000 E 9936.200 N 37028.843
CHAINAGE	0.000 2.784 2.784
LINE	41

PIPE SIZE (mm)	375
PIPE CLASS	RCP (CLASS 2)
PIPE GRADE (%)	1.99%
PIPE SLOPE (1 in X)	50.33
FULL PIPE VELOCITY (m/s)	0.69
PART FULL VELOCITY (m/s)	1.97
DATUM RL	48.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.400 61.179 61.162 61.185
PIPE FLOW (Cumecs)	0.076
PIPE CAPACITY AT GRADE (Cumecs)	0.247
DEPTH TO INVERT	1.505
INVERT LEVEL OF DRAINAGE	60.900
DESIGN SURFACE LEVEL	62.083
SETOUT COORDINATES	0.000 E 9920.775 N 37022.161
CHAINAGE	0.000 17.028 17.028
LINE	42

PIPE SIZE (mm)	375
PIPE CLASS	RCP (CLASS 2)
PIPE GRADE (%)	7.00%
PIPE SLOPE (1 in X)	14.29
FULL PIPE VELOCITY (m/s)	1.73
PART FULL VELOCITY (m/s)	4.00
DATUM RL	59.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	69.829 69.878 69.577
PIPE FLOW (Cumecs)	0.191
PIPE CAPACITY AT GRADE (Cumecs)	0.464
DEPTH TO INVERT	1.392
INVERT LEVEL OF DRAINAGE	69.258
DESIGN SURFACE LEVEL	70.740
SETOUT COORDINATES	74.403 E 9787.470 N 37064.587
CHAINAGE	74.403 54.727 19.684
LINE	FUTURE 6

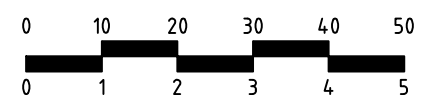
PIPE SIZE (mm)	900
PIPE CLASS	RCP (CLASS 2)
PIPE GRADE (%)	1.25%
PIPE SLOPE (1 in X)	80.00
FULL PIPE VELOCITY (m/s)	1.87
PART FULL VELOCITY (m/s)	3.31
DATUM RL	
H.G.L IN PIPE & W.S.E IN STRUCTURE	57.850 57.876 57.555
PIPE FLOW (Cumecs)	1.187
PIPE CAPACITY AT GRADE (Cumecs)	2.025
DEPTH TO INVERT	1.864
INVERT LEVEL OF DRAINAGE	55.834
DESIGN SURFACE LEVEL	58.374
SETOUT COORDINATES	74.771 E 10062.239 N 37044.740
CHAINAGE	74.771 24.904 49.675
LINE	23

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)	0.39
PART FULL VELOCITY (m/s)	1.83
DATUM RL	49.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.303 61.232 61.228 61.265
PIPE FLOW (Cumecs)	0.061
PIPE CAPACITY AT GRADE (Cumecs)	0.403
DEPTH TO INVERT	1.555
INVERT LEVEL OF DRAINAGE	60.600
DESIGN SURFACE LEVEL	62.136
SETOUT COORDINATES	0.000 E 9931.970 N 37057.141
CHAINAGE	0.000 9.775 9.775
LINE	26

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)	0.35
PART FULL VELOCITY (m/s)	1.77
DATUM RL	48.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.289 61.229 61.228 61.265
PIPE FLOW (Cumecs)	0.055
PIPE CAPACITY AT GRADE (Cumecs)	0.403
DEPTH TO INVERT	1.571
INVERT LEVEL OF DRAINAGE	60.650
DESIGN SURFACE LEVEL	62.136
SETOUT COORDINATES	0.000 E 9944.995 N 37056.113
CHAINAGE	0.000 3.607 3.607
LINE	27

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23

H 1:1000  
SCALE @ A1  
V 1:100



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

# 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

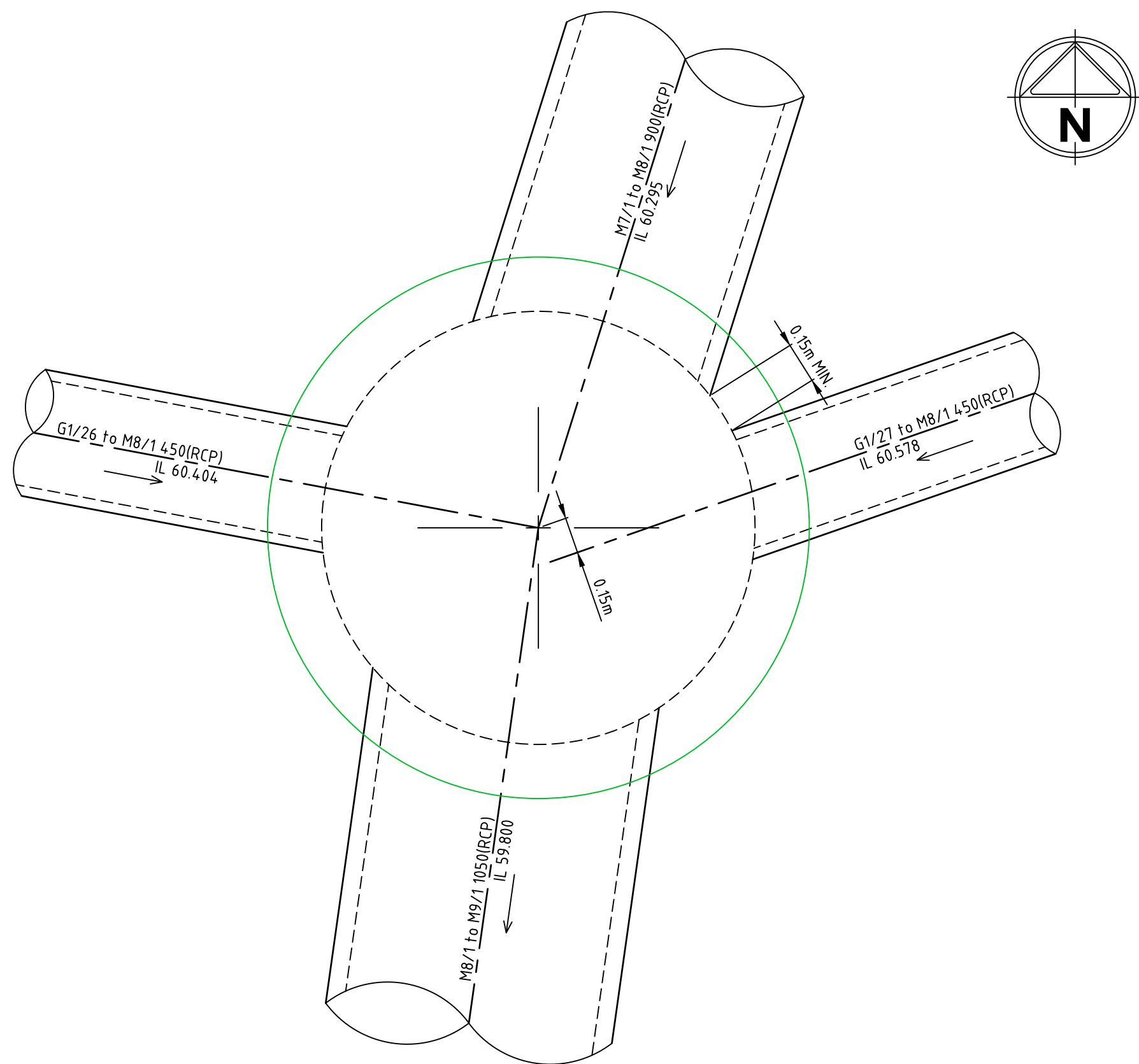
AT RIPLEY

Designed T. MULLEN	Checked K. HOWELLS
Authorised M. READMAN RPEQ 28295	Date DECEMBER 23

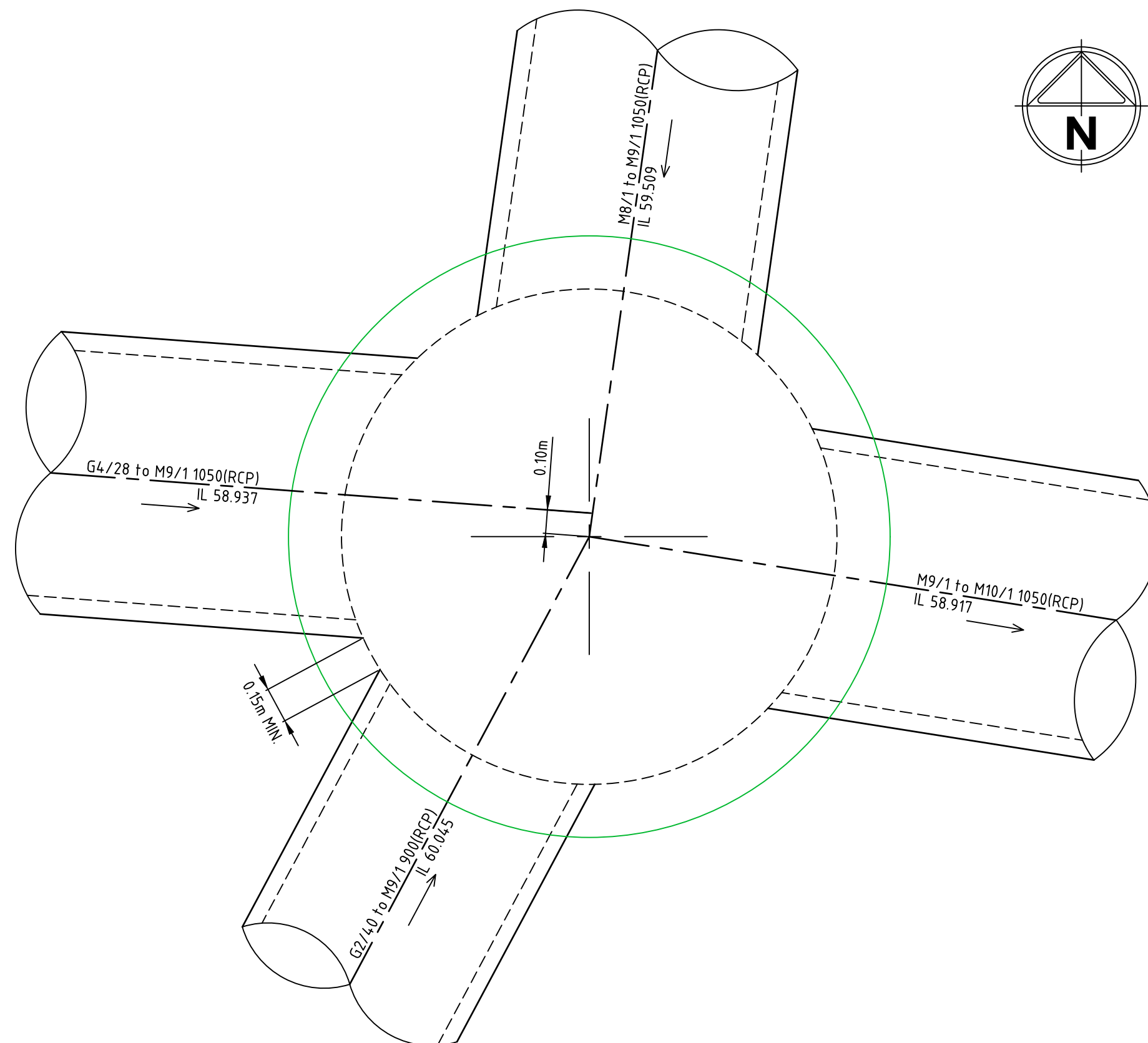
**AMORY AT RIPLEY  
STAGE 01B  
STORMWATER DRAINAGE LONGITUDINAL SECTIONS  
SHEET 3 OF 3**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01B-CR504** Rev **1**

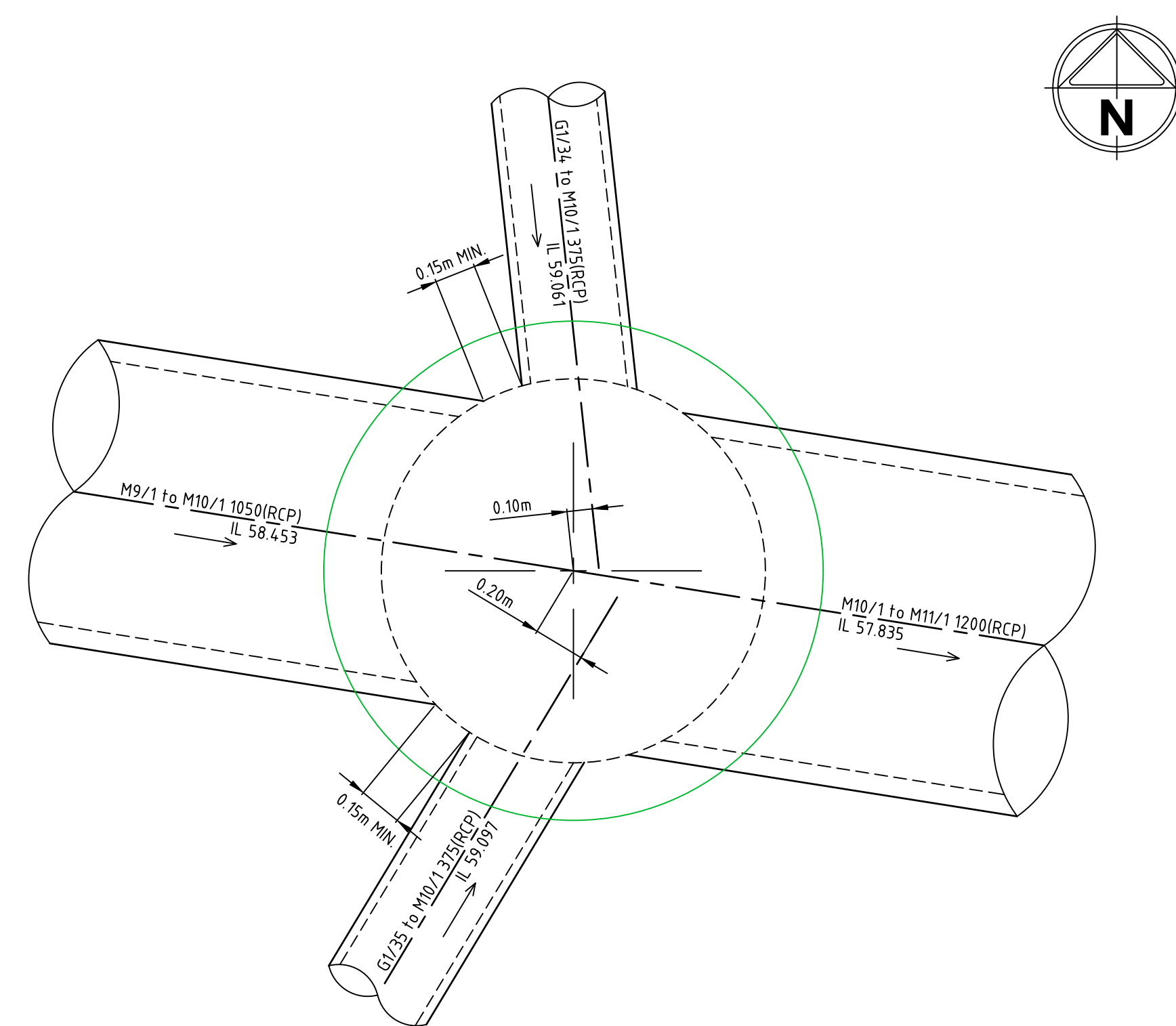




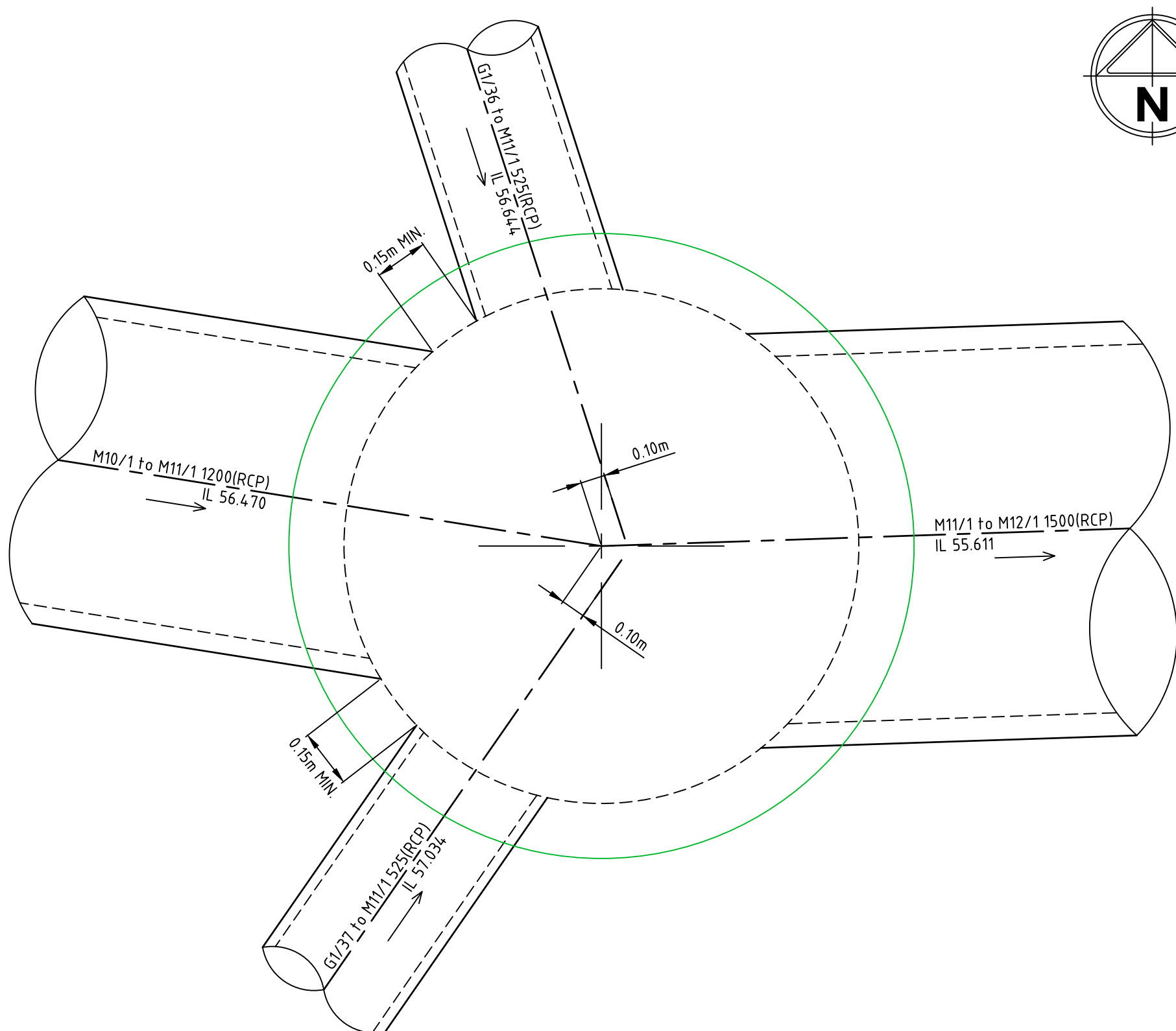
**STORMWATER STRUCTURE M8/1 - 1800ø MANHOLE**  
SCALE : 1 : 20



**STORMWATER STRUCTURE M9/1 - 2100ø MANHOLE**  
SCALE : 1 : 20



**STORMWATER STRUCTURE M10/1 - 1500ø MANHOLE**  
SCALE : 1 : 20

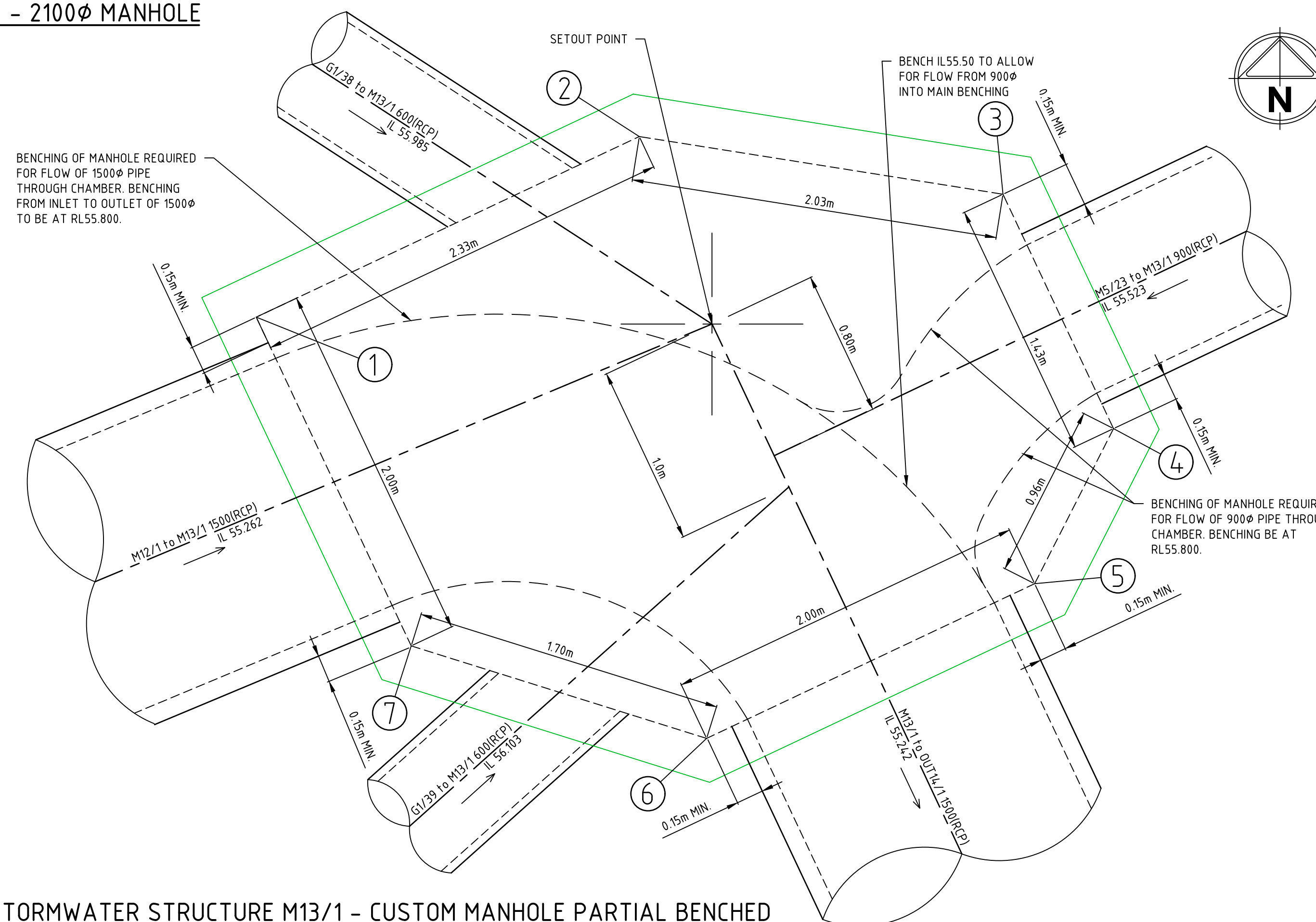


**STORMWATER STRUCTURE M11/1 - 2100ø MANHOLE**  
SCALE : 1 : 20

### STORMWATER STRUCTURE NOTES

1. DETAILS SHOWN ON THIS DRAWING ARE GENERAL ARRANGEMENT DETAILS ONLY. THESE DETAILS MUST BE READ IN CONJUNCTION WITH STRUCTURAL DETAILS FOR FULL CONSTRUCTION DETAILS OF CUSTOM MANHOLE CHAMBERS.
2. REFER TO ICC SPECIFICATIONS AND STANDARD DRAWING NO. SD-02 & SD-03 FOR MANHOLE GENERAL CONSTRUCTION DETAILS.
3. ALL MANHOLES SHALL BE FITTED WITH A CLASS D HEAVY DUTY ROADWAY TRAFFICABLE ACCESS COVER AND FRAME IN ACCORDANCE WITH ICC STANDARD DRAWING SD-02.
4. STEP RUNGS TO ICC REQUIREMENTS. REFER TO ICC STANDARD DRAWINGS SD-02 & SD-10 AND IN ACCORDANCE WITH AS1657.

PIT SETOUT POINTS		
PT	EASTING	NORTHING
1	10037.241	37034.089
2	10039.346	37035.082
3	10041.345	37034.765
4	10041.952	37033.477
5	10041.519	37032.625
6	10039.716	37031.775
7	10038.092	37032.283

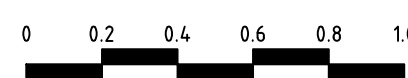


**STORMWATER STRUCTURE M13/1 - CUSTOM MANHOLE PARTIAL BENCH**

SCALE : 1 : 20

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24

H 1:20  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

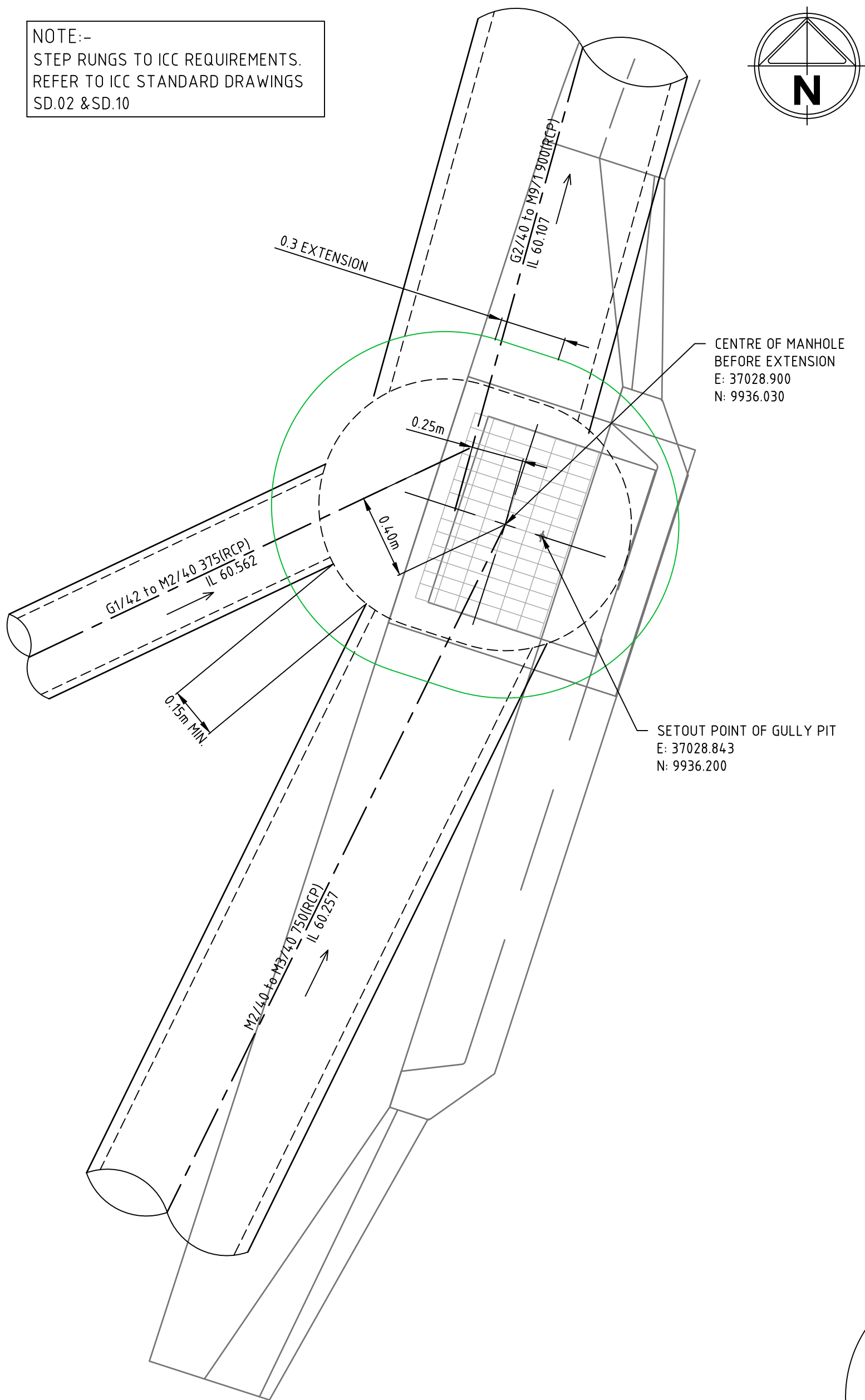
**AMORY AT RIPLEY  
STAGE 01B  
STORMWATER STRUCTURE DETAILS  
SHEET 1 OF 2**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01B-CR510 Rev  
1



file name: 320678-01B-CR511.dwg layout name: CR511 plotted by: Tim Mullen

NOTE:-  
STEP RUNGS TO ICC REQUIREMENTS.  
REFER TO ICC STANDARD DRAWINGS  
SD-02 & SD-10

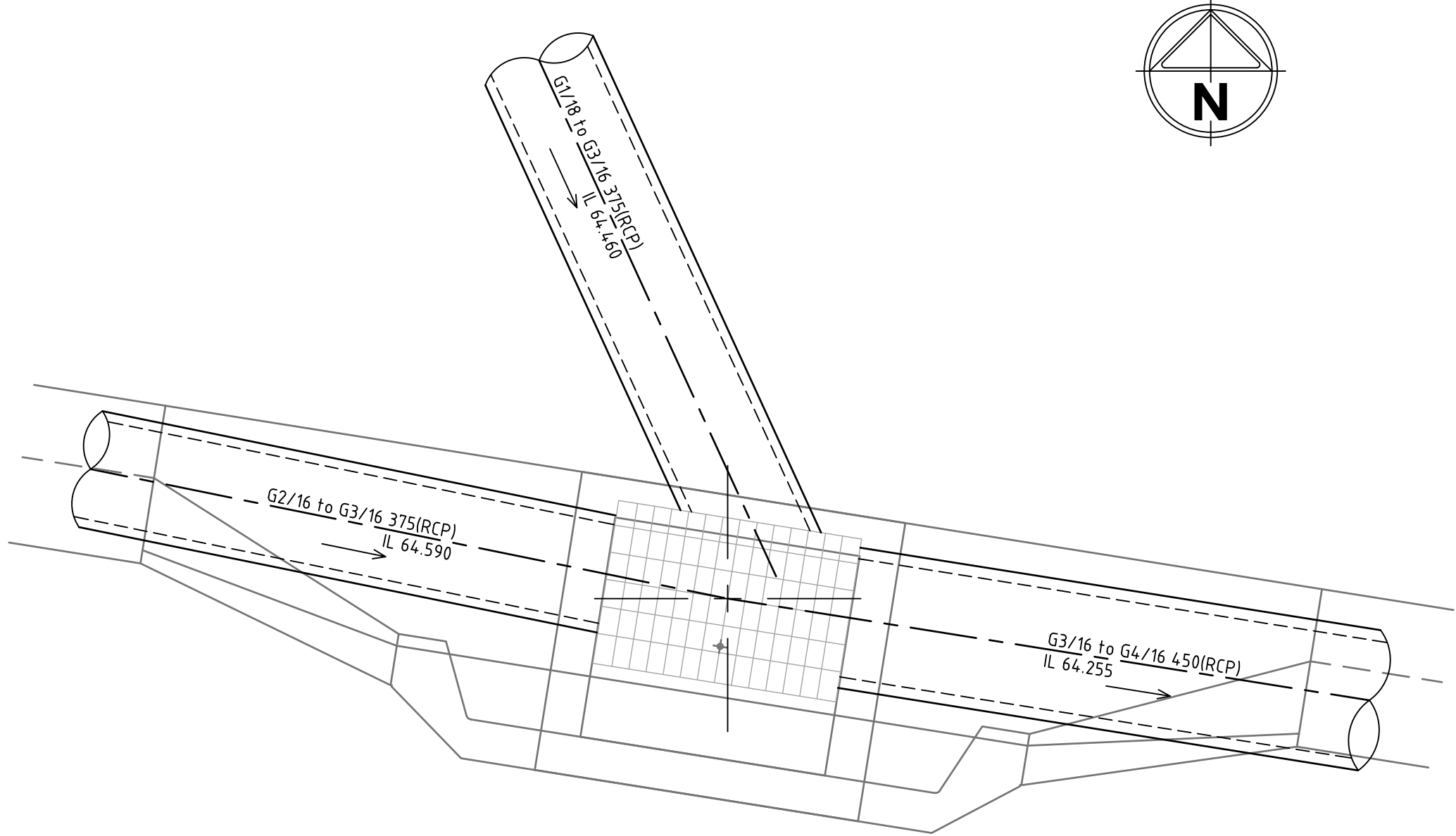


**STORMWATER STRUCTURE G2/40 -  
1200Ø MANHOLE EXT 300mm**

SCALE : 1 : 20

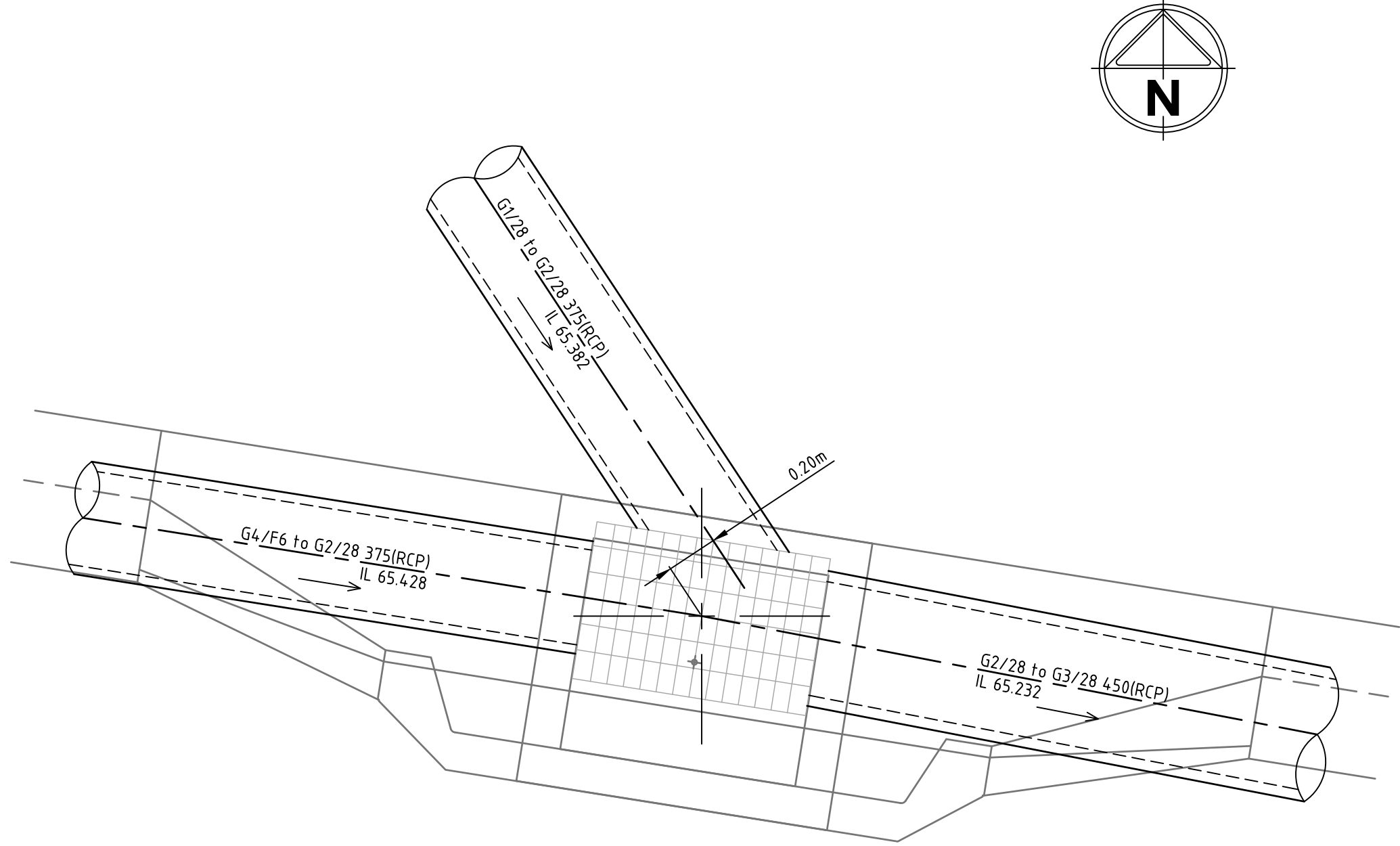
**STORMWATER STRUCTURE NOTES**

1. DETAILS SHOWN ON THIS DRAWING ARE GENERAL ARRANGEMENT DETAILS ONLY. THESE DETAILS MUST BE READ IN CONJUNCTION WITH STRUCTURAL DETAILS FOR FULL CONSTRUCTION DETAILS OF CUSTOM MANHOLE CHAMBERS.
2. REFER TO ICC SPECIFICATIONS AND STANDARD DRAWING NO. SD-02 & SD-03 FOR MANHOLE GENERAL CONSTRUCTION DETAILS.
3. ALL MANHOLES SHALL BE FITTED WITH A CLASS D HEAVY DUTY ROADWAY TRAFFICABLE ACCESS COVER AND FRAME IN ACCORDANCE WITH ICC STANDARD DRAWING SD-02.
4. STEP RUNGS TO ICC REQUIREMENTS. REFER TO ICC STANDARD DRAWINGS SD-02 & SD-10 AND IN ACCORDANCE WITH AS1657.



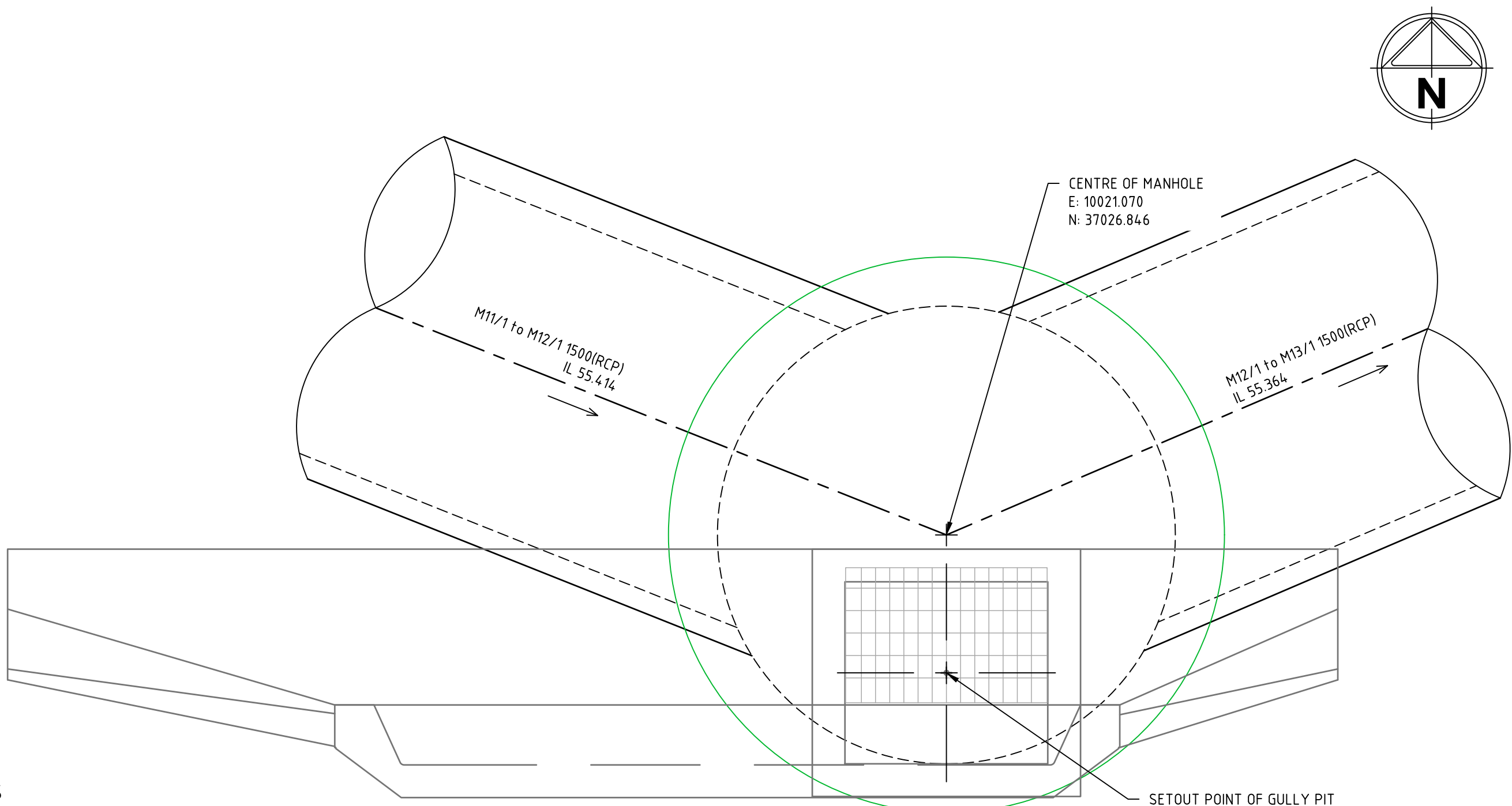
**STORMWATER STRUCTURE G3/16 - LIP IN LINE GRATE INLET PIT**

SCALE : 1 : 20



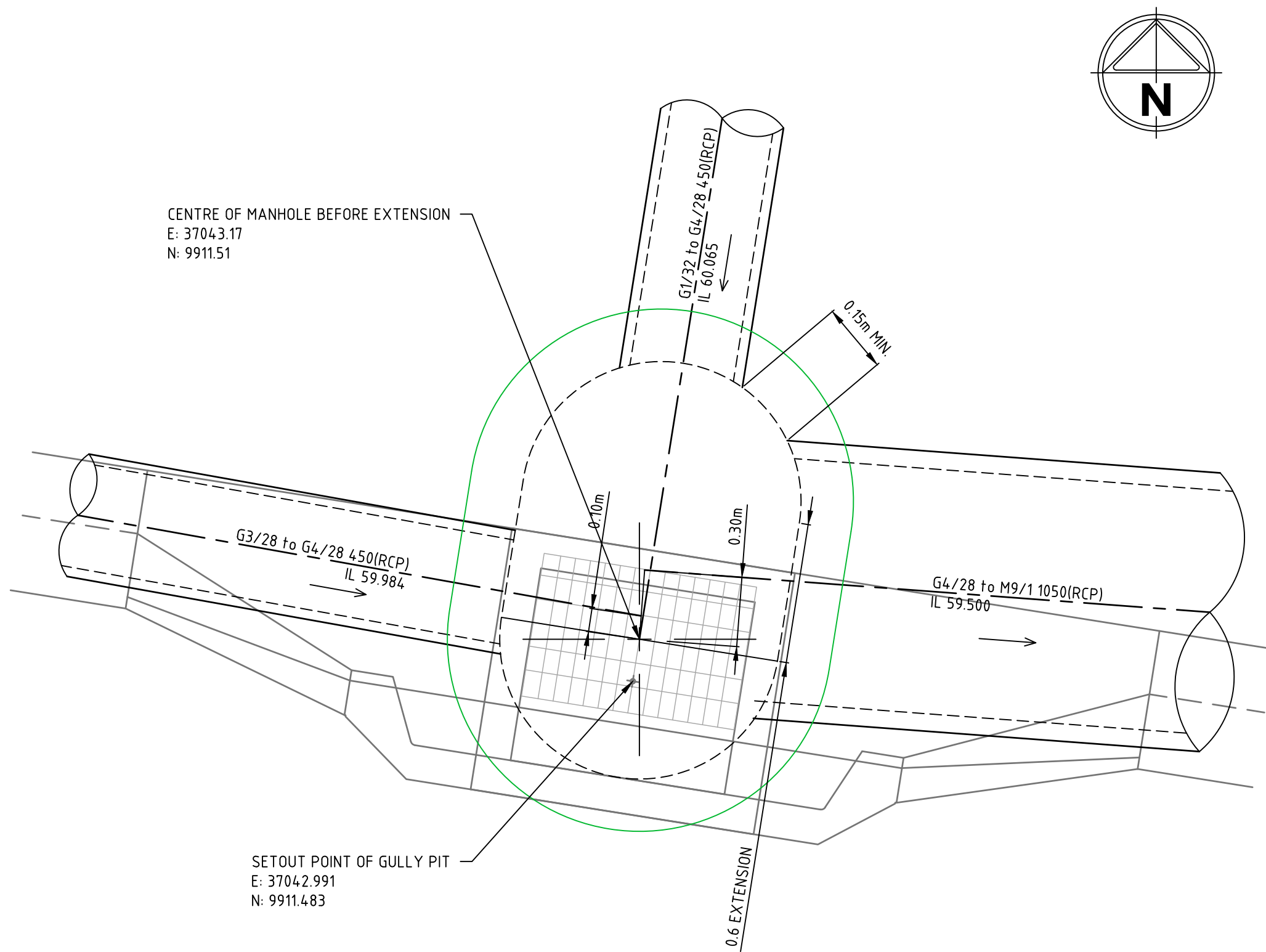
**STORMWATER STRUCTURE G2/28 - LIP IN LINE GRATE INLET PIT**

SCALE : 1 : 20



**STORMWATER STRUCTURE G12/1 - 2100Ø MANHOLE**

SCALE : 1 : 20

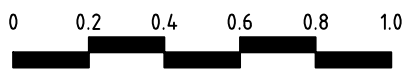


**STORMWATER STRUCTURE G4/28 - 1200Ø MANHOLE EXT 600mm**

SCALE : 1 : 20

Rev	Amendments	Approved	Date
1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24

H 1:20  
SCALE @ A1



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

**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  
T. MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

**AMORY AT RIPLEY  
STAGE 01B  
STORMWATER STRUCTURE DETAILS  
SHEET 2 OF 2**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01B-CR511 Rev  
1



SAFETY IN DESIGN REPORT

DURING THE DESIGN SPIIRE AUSTRALIA PTY LTD HAS REGULARLY REVIEWED THE DESIGN IN PROGRESS TO ELIMINATE OR REDUCE SAFETY HAZARDS SO FAR AS IS REASONABLY PRACTICABLE FOR THE CONSTRUCTION, MAINTENANCE, OPERATION AND DEMOLITION OF THE PROPOSED CIVIL WORKS. IN ACCORDANCE WITH WORK HEALTH AND SAFETY ACT AND REGULATIONS, POTENTIAL RESIDUAL HAZARDS ASSOCIATED WITH THE CIVIL DESIGN AS DOCUMENTED WILL INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

RESIDUAL RISK	LIKELIHOOD (L)	IMPACT (I)	RISK RATING (L+I)
DEMOLITION	4	4	8
GROUND VIBRATIONS	4	2	6
SURROUNDING PROPERTY AND INFRASTRUCTURE INCLUDING TREES	4	4	8
EXCAVATIONS	4	4	8
TRIP/FALL HAZARDS	4	3	7
FIRE AND OTHER EMERGENCY HAZARDS, INCLUDING EMERGENCY ROUTES AND EXITS	3	4	7
UNDERGROUND AND ABOVE GROUND SERVICES AND OBSTRUCTIONS	4	4	8
LIFTING AND POSITIONING OF STRUCTURAL COMPONENTS	3	4	7
HAZARDOUS MATERIALS	3	4	7
NOISE EXPOSURE FROM CONSTRUCTION AND SURROUNDING ACTIVITIES	3	4	7
OVER LOADING DUE TO CONSTRUCTION LOADS	3	4	7
OPEN TRENCHING	4	4	8
UNDER-BORE & AND OTHER TRENCHLESS METHODOLOGY FOR PIPELINE CONSTRUCTION	3	4	7
WORKING AT HEIGHTS	3	5	8
GENERAL SITE WORKS AND USE OF CONSTRUCTION VEHICLES & EQUIPMENT	3	5	8
SITE ACCESS INCLUDING RESTRICTED WORK SPACES	4	4	8
INTERACTION OF VEHICLES AND PERSONNEL ON THE ROAD/TRANSPORT NETWORK	4	4	8

THE ABOVE LISTED HAZARDS ARE TO BE ADDRESSED BY IMPLEMENTING AND COMPLYING WITH THE FOLLOWING NOTES, AUSTRALIAN STANDARDS, REGULATORY REQUIREMENTS AND OTHER RELEVANT DOCUMENTATION RELATING TO THE PROPOSED WORKS:

1. IT IS THE CLIENT'S RESPONSIBILITY TO PROVIDE ALL "SAFETY IN DESIGN" REPORTS TO THE BUILDER, PROJECT MANAGER AND/ OR PRINCIPAL CONTRACTOR.
2. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORKS STRICTLY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND NOT TO MAKE ANY VARIATIONS TO THE CONSTRUCTION WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE DESIGNERS.
3. IT IS THE CLIENT'S RESPONSIBILITY, THROUGH CONSULTATION AND ENGAGEMENT OF SUITABLY QUALIFIED PROFESSIONALS, TO MAKE THE DESIGNERS AWARE OF ANY INFORMATION RELATING TO HAZARDS AND RISKS WHERE CONSTRUCTION WORK IS TO BE CARRIED OUT, INCLUDING BUT NOT LIMITED TO: THE LOCATION OF UNDER GROUND AND ABOVE GROUND SERVICES, IDENTIFICATION OF CONTAMINATED SOILS AND OTHER MATERIALS OR THE PRESENCE OF DANGEROUS MATERIALS INCLUDING ASBESTOS.
4. THIS DESIGN HAS BEEN DOCUMENTED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, LOCAL AUTHORITY REGULATIONS AND STANDARD BUILDING CODES OF PRACTICE UNLESS NOTED OTHERWISE. EACH LEVEL OF CONSTRUCTION IS TO BE COMPLETED AND INSPECTED TO ENSURE DESIGN COMPLIANCE BY THE CERTIFYING AUTHORITY PRIOR TO ADVANCING TO THE NEXT STAGE OF WORK. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO PROGRAM THE WORKS IN A SAFE MANNER AND TO HIGHLIGHT TO THE DESIGNERS ANY ASPECTS OF THE WORK THAT MAY REQUIRE FURTHER CLARIFICATION OR ADVICE WITH REGARD TO THE HEALTH AND SAFETY OF THE PROJECT.
5. ALL ASPECTS DETAILED OR NOTED IN THE DOCUMENTS ARE THOSE REQUIRED FOR THE COMPLETED WORKS ONLY. THE BUILDER, PROJECT MANAGER OR THE PRINCIPAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY WORKS TO MAINTAIN THE STABILITY AND SAFETY OF THE WORKS THROUGHOUT THE CONSTRUCTION PERIOD. THE DESIGNER IS TO BE CONTACTED FOR FURTHER ADVICE IF REQUIRED.
6. WHERE THESE DESIGN DRAWINGS ONLY DOCUMENT PART OF THE WORKS, IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL DESIGN DRAWINGS ARE CO-ORDINATED BETWEEN CONSULTANTS. FOR EXAMPLE, CO-ORDINATION TO ENSURE APPROPRIATE SLAB THICKENINGS AND DETAILING FOR LOAD-BEARING AND BRACING WALL ELEMENTS, ETC.
7. DURING CONSTRUCTION, THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR SHALL PROTECT NEIGHBOURING PROPERTIES FROM NOISE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, RADIATION, GROUND VIBRATIONS AND OTHER CONSTRUCTION HAZARDS. CONDITION (DILAPIDATION) REPORTS ON NEIGHBOURING PROPERTIES AND STRUCTURES ARE RECOMMENDED PRIOR TO CONSTRUCTION.
8. THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS REQUIRED TO VERIFY AND IF NECESSARY CONDUCT FURTHER SEARCHES TO ACCURATELY LOCATE EASEMENTS, UNDER GROUND AND ABOVE GROUND SERVICES, PROPERTY BOUNDARIES, TREES, EXISTING STRUCTURES, AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. THE DESIGNER IS TO BE IMMEDIATELY NOTIFIED OF ANY ELEMENTS NOT SHOWN ON THE APPROVED DRAWINGS AS THE DESIGN AND SAFETY DESIGN REPORT MAY REQUIRE AMENDING.
9. THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR MUST OBTAIN DESIGN AND INSPECTION CERTIFICATES ON ALL ELEMENTS OF THE WORKS WHICH PRESENT ANY SAFETY RISKS.
10. THE CONSTRUCTION IS TO BE FULLY CARRIED OUT IN ACCORDANCE WITH ALL DESIGN DRAWINGS AND NOTES AS DOCUMENTED. IF CONSTRUCTION CEASES AT ANY STAGE, THE DESIGNERS ARE TO BE NOTIFIED TO PROVIDE ADVICE ON THE SAFETY OF COMPLETED CONSTRUCTION WORK AT THAT TIME.
11. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO INFORM THE DESIGNERS OF ANY CHANGE TO CONTRACTUAL ARRANGEMENTS BETWEEN THE CLIENT AND THEMSELVES WHICH MAY IMPACT ON THE DESIGN AND SAFETY OF THE DESIGN.
12. THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR SHALL PROVIDE SUITABLE FENCING AROUND ALL EXCAVATIONS AND AT NO STAGE SHOULD AN EXCAVATION BE APPROACHED OR ENTERED INTO UNLESS AN APPROVED AND CERTIFIED SHORING SYSTEM HAS BEEN INSTALLED OR THE BANKS HAVE BEEN BATTERED AND/ OR BENCHED IN ACCORDANCE WITH THE PROJECTS GEOTECHNICAL ENGINEERING SPECIFICATION AND/ OR WRITTEN INSTRUCTIONS BY THE INSPECTING GEOTECHNICAL ENGINEER.
13. AT NO STAGE SHALL SITE PERSONNEL PASS UNDER MATERIALS BEING LIFTED AND MOVED AROUND ON SITE. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SITE MATERIALS ARE DELIVERED, TRANSPORTED, STORED AND POSITIONED IN A SAFE MANNER AND IN ACCORDANCE WITH THE PRODUCT SPECIFICATION, THE SITE SPECIFIC SAFETY PLAN AND GENERAL SAFETY INDUCTION REGULATIONS.

14. CONTRACTORS ARE REQUIRED TO OBTAIN AND COMPLY WITH MATERIAL PRODUCT SPECIFICATIONS AND RECOMMENDATIONS WHEN USING MATERIALS SPECIFIED IN THE DESIGN DOCUMENTS.
15. THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR MUST ELIMINATE OR LIMIT (AS FAR AS REASONABLY PRACTICABLE) SLIP AND TRIP HAZARDS AND PROTRUDING, SHARP OR ABRASIVE ELEMENTS ON SITE. HAZARDOUS ELEMENTS MUST BE CAPPED, ADEQUATELY SCREENED OR CLEARLY MARKED TO ENSURE SITE SAFETY.
16. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SITE WORKERS ARE SUITABLY QUALIFIED, TRAINED AND INSURED FOR THE TASKS BEING UNDERTAKEN ON SITE.
17. IT IS THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SITE PERSONNEL ARE PROVIDED WITH ADEQUATE SPACE, VENTILATION AND APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO UNDERTAKE THE WORKS REQUIRED. ALL CONSTRUCTION EQUIPMENT IS TO BE USED IN ACCORDANCE WITH BEST INDUSTRY SAFETY PRACTICES AND REGULATIONS.
18. DEMOLITION WORKS ARE REQUIRED TO BE CARRIED OUT IN A SAFE, SYSTEMATIC AND ORDERLY MANNER IN ACCORDANCE WITH THE SITE SPECIFIC SAFETY PLAN AND ALL GENERAL SAFETY INDUCTION REGULATIONS. TEMPORARY PROPPING OF MEMBERS MAY BE REQUIRED IN ACCORDANCE WITH THE DIRECTION OF A SUITABLY QUALIFIED PROFESSIONAL IN ACCORDANCE WITH INDUSTRY SAFETY PRACTICES AND REGULATIONS.
19. AT ALL TIMES THE BUILDER, THE PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS TO PROVIDE SAFE ACCESS ONTO AND AROUND THE SITE INCLUDING ADEQUATE STAIRS, SCAFFOLDING, SECURE LADDER ACCESS, SAFE WORKING PLATFORMS, ACCESS PATHS FREE FROM FALLING OBJECTS, ADEQUATE RAILINGS, FALL ARREST SYSTEMS, ETC.
20. ALL FORMWORK AND SCAFFOLDING SYSTEMS ARE TO BE DESIGNED AND CERTIFIED BY A LICENSED CONTRACTOR TO COMPLY WITH RELEVANT AUSTRALIAN STANDARDS AND KEPT AND MAINTAINED IN A GOOD WORKING ORDER. REGULAR CHECKS ON ERECTED MEMBERS AND FIXINGS MUST BE CARRIED OUT BY A QUALIFIED PROFESSIONAL TO ENSURE COMPLIANCE WITH THE DESIGN.
21. CLIMBING ON SCAFFOLDING OR FORMWORK AND WORKING AT HEIGHTS WITHOUT SUITABLY APPROVED RAILINGS, BARRIERS AND RESTRAINTS FIXED OFF TO CERTIFIED ANCHOR POINTS IS STRICTLY PROHIBITED.
22. ALL SITE MACHINERY AND ELECTRICAL EQUIPMENT IS TO BE KEPT IN GOOD WORKING ORDER WITH CURRENT SAFETY TAGGING AND SERVICING WHERE APPLICABLE.
23. THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS TO ADEQUATELY TREAT AND DISPOSE OF DANGEROUS SITE MATERIALS INCLUDING CONTAMINATED SOILS AND ASBESTOS IN ACCORDANCE WITH AUTHORITY REGULATIONS, INDUSTRY STANDARDS AND PRACTICES.
24. THE BUILDER, PROJECT MANAGER OR PRINCIPAL CONTRACTOR IS TO ENSURE THAT THE SITE IS MAINTAINED IN A SAFE WORKING MANNER AND THAT ALL SITE PRACTICES ARE IN ACCORDANCE WITH CURRENT WORK PLACE HEALTH AND SAFETY LAWS AND REGULATIONS.

(L) LIKELIHOOD OF THE CONSEQUENCES OCCURRING	
RATING	DESCRIPTION
ALMOST CERTAIN 5	HAS HAPPENED SEVERAL TIMES IN THE PAST YEAR AND IN EACH OF THE PREVIOUS 5 YEARS OR HAS A >90% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.
LIKELY 4	HAS HAPPENED AT LEAST ONCE IN THE PAST YEAR AND IN EACH OF THE PREVIOUS 5 YEARS OR HAS A 60-90% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.
POSSIBLE 3	HAS HAPPENED DURING THE PAST 5 YEARS BUT NOT EVERY YEAR OR HAS A 40-60% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.
UNLIKELY 2	MAY HAVE OCCURRED ONCE IN THE LAST 5 YEARS OR HAS A 10-30% CHANCE OF OCCURRING IN THE FUTURE IF THE RISK IS NOT MITIGATED.
RARE 1	HAS NOT OCCURRED IN THE PAST 5 YEARS OR MAY OCCUR IN EXCEPTIONAL CIRCUMSTANCES AND LESS THAN 10% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.

(I) IMPACT OR CONSEQUENCE RATING TABLE	
RATING	DESCRIPTION
SEVERE 5	ONE OR MORE FATALITIES OR LIFE THREATENING INJURIES OR ILLNESS, OR PUBLIC OR STAFF EXPOSED TO A SEVERE, ADVERSE LONG TERM HEALTH IMPACT OR LIFE THREATENING HAZARD.
MAJOR 4	ONE OR MORE MAJOR INJURIES OR ILLNESS REQUIRING MAJOR SURGERY OR RESULTING IN PERMANENT DISABLEMENT OR PUBLIC OR STAFF EXPOSED TO A HAZARD THAT RESULTS IN MAJOR SURGERY, PERMANENT DISABLEMENT OR ADVERSE PERMANENT HEALTH EFFECTS.
MODERATE 3	ONE OR MORE INJURIES OR ILLNESS REQUIRING TREATMENT BY A PHYSICIAN OR HOSPITALISATION OR PUBLIC OR STAFF EXPOSED TO A HAZARD THAT COULD CAUSE INJURIES OR MODERATE ADVERSE HEALTH EFFECTS.
MINOR 2	ONE OR MORE INJURIES OR ILLNESS REQUIRING TREATMENT BY A QUALIFIED FIRST AID PERSON OR EXPOSURE OF PUBLIC OR STAFF TO A HAZARD THAT COULD CAUSE MINOR INJURIES OR MINOR ADVERSE HEALTH EFFECTS.
NEGLIGIBLE 1	MINOR INJURY OR AILMENT THAT DOES NOT REQUIRE MEDICAL TREATMENT BY A PHYSICIAN OR A QUALIFIED FIRST AID PERSON.




LIKELIHOOD RATING	CONSEQUENCE RATING				
	SEVERE 5	MAJOR 4	MODERATE 3	MINOR 2	NEGLIGIBLE 1
ALMOST CERTAIN 5	VERY HIGH 10	VERY HIGH 9	HIGH 8	HIGH 7	MEDIUM 6
LIKELY 4	VERY HIGH 9	HIGH 8	HIGH 7	MEDIUM 6	MEDIUM 5
POSSIBLE 3	HIGH 8	HIGH 7	MEDIUM 6	MEDIUM 5	LOW 4
UNLIKELY 2	HIGH 7	MEDIUM 6	MEDIUM 5	LOW 4	LOW 3
RARE 1	MEDIUM 6	MEDIUM 5	LOW 4	LOW 3	VERY LOW 2

RISK LEVEL	REQUIRED ACTION
VERY HIGH	ACT IMMEDIATELY: THE PROPOSED TASK OR PROCESS ACTIVITY MUST NOT PROCEED. STEPS MUST BE TAKEN TO LOWER THE RISK LEVEL TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS.
HIGH	ACT TODAY: THE PROPOSED ACTIVITY CAN ONLY PROCEED, PROVIDED THAT: (i) THE RISK LEVEL HAS BEEN REDUCED TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS; (ii) THE RISK CONTROLS MUST INCLUDE THOSE IDENTIFIED IN LEGISLATION, STANDARDS, CODES OF PRACTICE ECT. (iii) THE RISK ASSESSMENT HAS BEEN REVIEWED AND APPROVED BY THE SUPERVISOR AND (iv) THE SUPERVISOR MUST REVIEW AND DOCUMENT THE EFFECTIVENESS OF THE IMPLEMENTED RISK CONTROLS.
MEDIUM	ACT THIS WEEK: THE PROPOSED TASK OR PROCESS CAN PROCEED, PROVIDED THAT: (i) THE RISK LEVEL HAS BEEN REDUCED TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS; (ii) THE RISK ASSESSMENT HAS BEEN REVIEWED AND APPROVED BY THE SUPERVISOR.
LOW	ACT THIS MONTH: MANAGED BY LOCAL DOCUMENTED ROUTINE PROCEDURES WHICH MUST INCLUDE APPLICATION OF THE HIERARCHY OF CONTROLS.
VERY LOW	KEEP A WATCHING BRIEF: ALTHOUGH THE RISK LEVEL IS LOW THE SITUATION SHOULD BE MONITORED PERIODICALLY TO DETERMINE IF THE SITUATION CHANGES.

HIERARCHY OF CONTROLS	
1	ELIMINATE THE HAZARD - REMOVE IT COMPLETELY FROM YOUR WORKPLACE.
2	SUBSTITUTE THE HAZARD - WITH A SAFER ALTERNATIVE.
3	ISOLATE THE HAZARD - AS MUCH AS POSSIBLE AWAY FROM WORKERS.
4	USE ENGINEERING CONTROLS - ADAPT TOOLS OR EQUIPMENT TO REDUCE THE RISK.
5	USE ADMINISTRATIVE CONTROLS - CHANGE WORK PRACTICES AND ORGANISATION.
6	USE PERSONAL PROTECTIVE EQUIPMENT (PPE) - THIS SHOULD BE THE LAST OPTION AFTER YOU HAVE CONSIDERED ALL OTHER OPTIONS FOR YOUR WORKPLACE.

file name: 320678-01B-CR900.dwg layout name: CR900 plotted by: Tim Mullen FILE DETAILS


1	ISSUED FOR CONSTRUCTION	K.H.	18-02-25
0	ISSUED FOR CONSTRUCTION	K.H.	18-11-24
C	ISSUED FOR APPROVAL	K.H.	05-09-24
B	ISSUED FOR TENDER	K.H.	23-02-24
A	ISSUED FOR APPROVAL	K.H.	07-12-23
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved  
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



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  
T. MULLEN

Checked  
K. HOWELLS

Authorised  
M. READMAN RPEQ 28295

Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01B  
SAFETY IN DESIGN REPORT

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION

Drg No  
320678-01B-CR900

Rev  
1