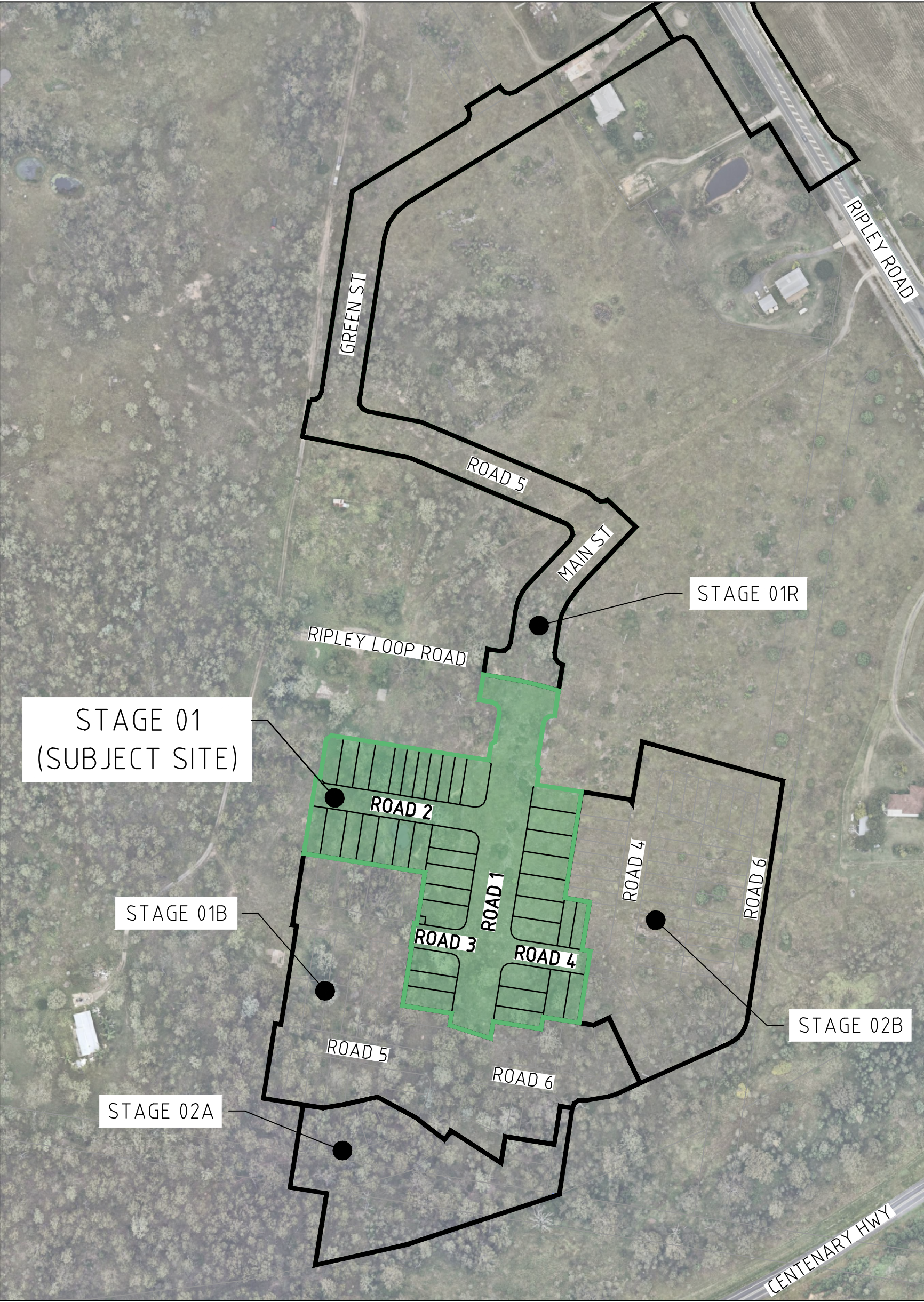


# AMORY AT RIPLEY

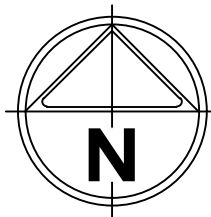
## STAGE 01

### RIPLEY ESTATE DEVELOPMENT PTY LTD



LOCALITY PLAN

NTS



| DRAWING SCHEDULE        |                                                          |
|-------------------------|----------------------------------------------------------|
| DRAWING                 | DESCRIPTION                                              |
| GENERAL                 |                                                          |
| 320678-01-C0100         | DRAWING SCHEDULE & LOCALITY PLAN                         |
| 320678-01-C0101         | GENERAL NOTES & LEGEND                                   |
| 320678-01-C0102         | OVERALL KEY PLAN                                         |
| 320678-01-C0103         | CONTROL LINE LAYOUT PLAN & TYPICAL SECTIONS              |
| EARTHWORKS              |                                                          |
| 320678-01-C0200         | EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2                    |
| 320678-01-C0201         | EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2                    |
| 320678-01-C0202         | EARTHWORKS SITE SECTIONS                                 |
| ROADWORKS               |                                                          |
| 320678-01-C0300         | ROADWORKS STANDARD NOTES & DETAILS                       |
| 320678-01-C0301         | ROADWORKS LAYOUT PLAN - SHEET 1 OF 2                     |
| 320678-01-C0302         | ROADWORKS LAYOUT PLAN - SHEET 2 OF 2                     |
| 320678-01-C0303         | ROAD 1 LONGITUDINAL SECTIONS - SHEET 1 OF 2              |
| 320678-01-C0304         | ROAD 1 LONGITUDINAL SECTIONS - SHEET 2 OF 2              |
| 320678-01-C0305         | ROAD 1 CROSS SECTIONS - SHEET 1 OF 2                     |
| 320678-01-C0306         | ROAD 2 LONGITUDINAL SECTIONS                             |
| 320678-01-C0307         | ROAD 2 CROSS SECTIONS                                    |
| 320678-01-C0308         | ROAD 3 & ROAD 4 LONGITUDINAL SECTIONS                    |
| 320678-01-C0309         | ROAD 3 & ROAD 4 CROSS SECTIONS                           |
| 320678-01-C0310         | RIPLEY LOOP/ROAD 1 INTERSECTION DETAIL                   |
| 320678-01-C0311         | ROAD1/ROAD 2 INTERSECTION DETAIL                         |
| 320678-01-C0312         | ROAD 3/ROAD 4 INTERSECTION DETAILS - SHEET 1 OF 2        |
| 320678-01-C0313         | ROAD 3/ROAD 4 INTERSECTION DETAILS - SHEET 2 OF 2        |
| 320678-01-C0314         | TRAFFIC ISLAND SETOUT DETAILS                            |
| SIGNAGE & LINEMARKING   |                                                          |
| 320678-01-C0400         | SIGNAGE & LINEMARKING DETAILED LAYOUT PLAN               |
| STORMWATER DRAINAGE     |                                                          |
| 320678-01-C0500         | STORMWATER DRAINAGE STANDARD NOTES & DETAILS             |
| 320678-01-C0501         | STORMWATER DRAINAGE CATCHMENT PLAN                       |
| 320678-01-C0502         | STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 3 |
| 320678-01-C0503         | STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 3 |
| 320678-01-C0504         | STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 3 |
| 320678-01-C0505         | BASIN 1 CATCHMENT - OVERALL CATCHMENT PLAN               |
| 320678-01-C0506         | STORMWATER DRAINAGE CALCULATIONS TABLE - SHEET 1 OF 4    |
| 320678-01-C0507         | STORMWATER DRAINAGE CALCULATIONS TABLE - SHEET 2 OF 4    |
| 320678-01-C0508         | STORMWATER DRAINAGE CALCULATIONS TABLE - SHEET 3 OF 4    |
| 320678-01-C0509         | STORMWATER DRAINAGE CALCULATIONS TABLE - SHEET 4 OF 4    |
| 320678-01-C0510         | STORMWATER STRUCTURE DETAILS                             |
| SAFETY IN DESIGN REPORT |                                                          |
| 320678-01-C0900         | 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 name: 320678-01-C0100.dwg layout name: C0100 plotted by: Charlene Chessells  
FILE DETAILS

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

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

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

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0100

Rev  
2



NOTES:

GENERAL

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- 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.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- 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.
- 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.
- PROJECT SURVEYOR SHALL PEG COMMON BOUNDARY WITH ADJOINING PROPERTIES.
- CONTRACTOR SHALL ASSESS LOCATION AND LEVEL OF ANY EXISTING FENCING AND RETAINING WALLS RELATIVE TO PROPOSED RETAINING WALL CONSTRUCTION.
- 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.
- CONTRATOR TO PROVIDE DILAPIDATION REPORT OF ALL ASSETS IN THE VICINITY OF WORKS

EARTHWORKS

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
- 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.
- 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.
- 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.
- 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.
- ALL WORK SHALL BE IN ACCORDANCE WITH IPSWICH CITY COUNCIL DESIGN STANDARDS.
- ALL EARTHWORKS & WORKS ASSOCIATED WITH PROPOSED DEVELOPMENT SHALL BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE PROJECT SPECIFIC GEOTECHNICAL REPORT AND AS3978.
- WORKS MUST BE UNDERTAKEN IN ACCORDANCE WITH BUTLER PARTNERS REPORTS 010-218K - '633 RIPLEY ROAD' & '695 AND 787-815 RIPLEY ROAD' 31/01/2021
- WHERE NEW WORK ABUTS EXISTING WORK THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE PLACEMENT OF ALL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENDURE THAT ALL FILL IS PLACED IN A "CONTROLLED MANNER", IN ACCORDANCE WITH AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS".
- 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.
- STRIPPED TOPSOIL SHALL BE STOCKPILED WITHIN THE DEVELOPMENT SITE IN A POSITION APPROVED BY THE SUPERINTENDENT.
- ANY IMPORTED FILL SHALL BE APPROVED AND FREE OF ORGANIC MATTER WITH CERTIFICATES PROVIDED
- FILL SHALL BE PLACED IN MAXIMUM150mm LAYERS

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

ROAD CONSTRUCTION

- CONCRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.
- ONCE EXCAVATION TO SUBGRADE LEVEL HAS OCCURRED, CONTRACTOR TO PROVIDE CBR TEST RESULTS TO SUPERINTENDENT FOR FINAL PAVEMENT DESIGN CONFIRMATION.
- PRIOR TO PLACING EACH LAYER OF PAVEMENT, COMPACTION TEST RESULTS ARE TO BE PROVIDED TO SUPERINTENDENT FOR ACCEPTANCE.
- CONSTRUCTION OF KERB TO BE IN ACCORDANCE WITH RELEVANT COUNCIL STANDARDS.
- 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 | 95                | STANDARD MAXIMUM DRY DENSITY |
| b) <0.5m BELOW PAVEMENT SUBGRADE | 100               |                              |

GENERAL STORMWATER DRAINAGE

- 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.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN.
- ALL PIPES ≤600 DIAMETER TO BE RUBBER RING JOINTED (R.R.J.) UNLESS STATED OTHERWISE. ALL OTHER PIPES TO BE FLUSH JOINTED (F.J) UNLESS STATED OTHERWISE.
- ALL DRAINAGE AND DRAINAGE STRUCTURES TO BE IN ACCORDANCE WITH COUNCIL STANDARDS WITH THE INSTALLATION OF HEAVY DUTY LIDS.
- CONCRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.

PAVEMENT

- 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.
- 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.
- 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

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

CONCRETE

- CONCRETE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600 AND RELEVANT AUTHORITY STANDARDS.

RETAINING WALLS

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

LEGEND

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

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



© 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<br>T.MULLEN                | Checked<br>K. HOWELLS |
| Authorised<br>M. READMAN RPEQ 28295 | Date<br>DECEMBER 23   |

AMORY AT RIPLEY  
STAGE 01  
GENERAL NOTES & LEGEND

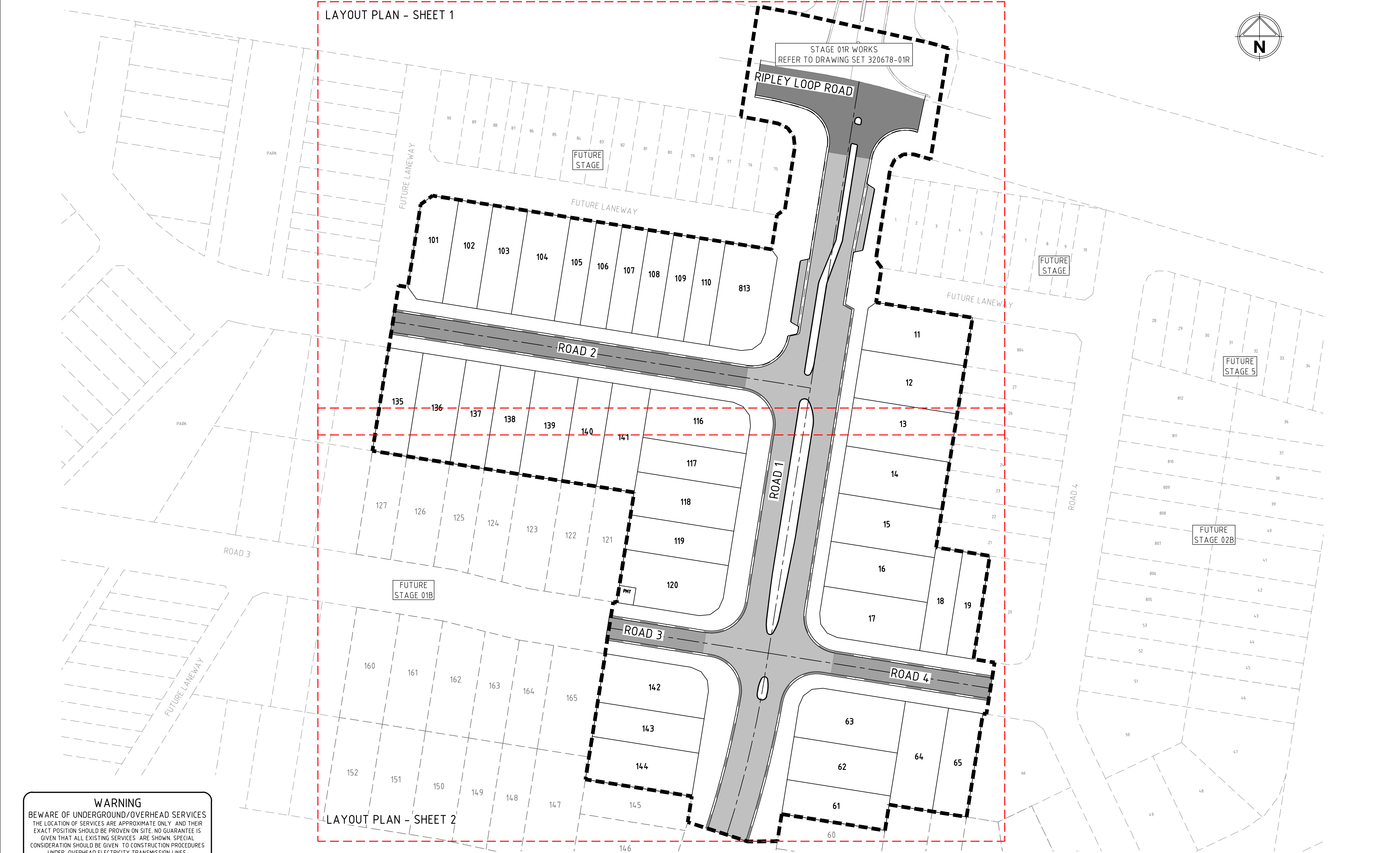
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
**320678-01-C0101**

Rev  
**2**



file name: 320678-01A-C0102.dwg layout name: C0102 plotted by: Charlene Chessells  
FILE DETAILS



|     |                        |          |          |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| Rev | Amendments             | Approved | Date     |

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

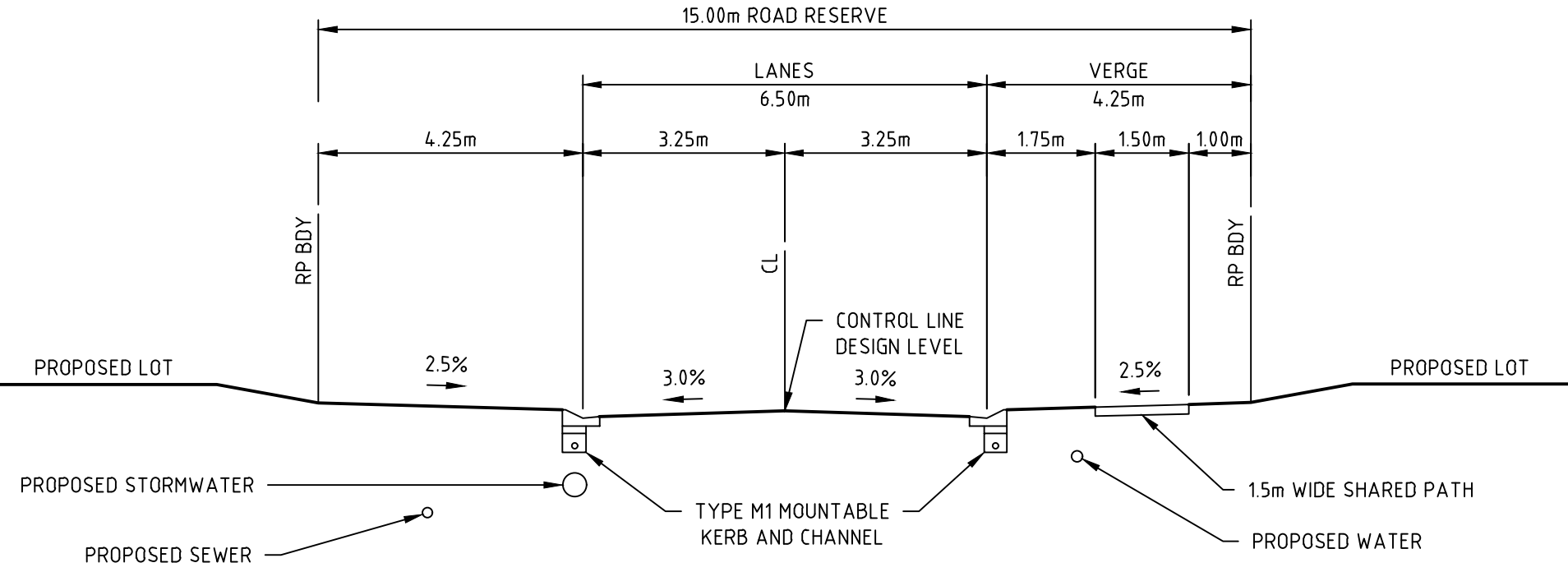
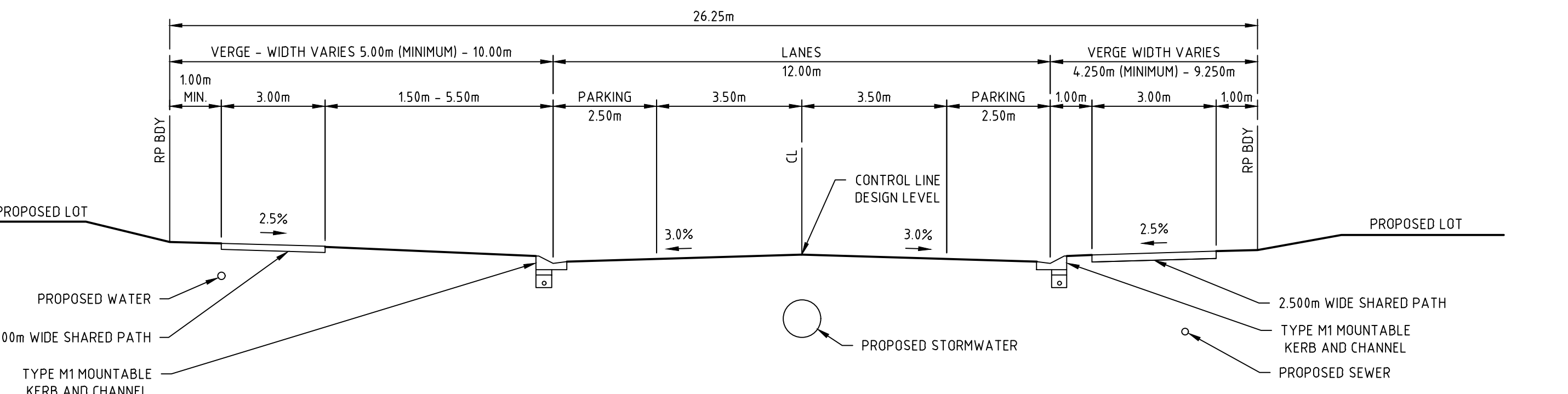
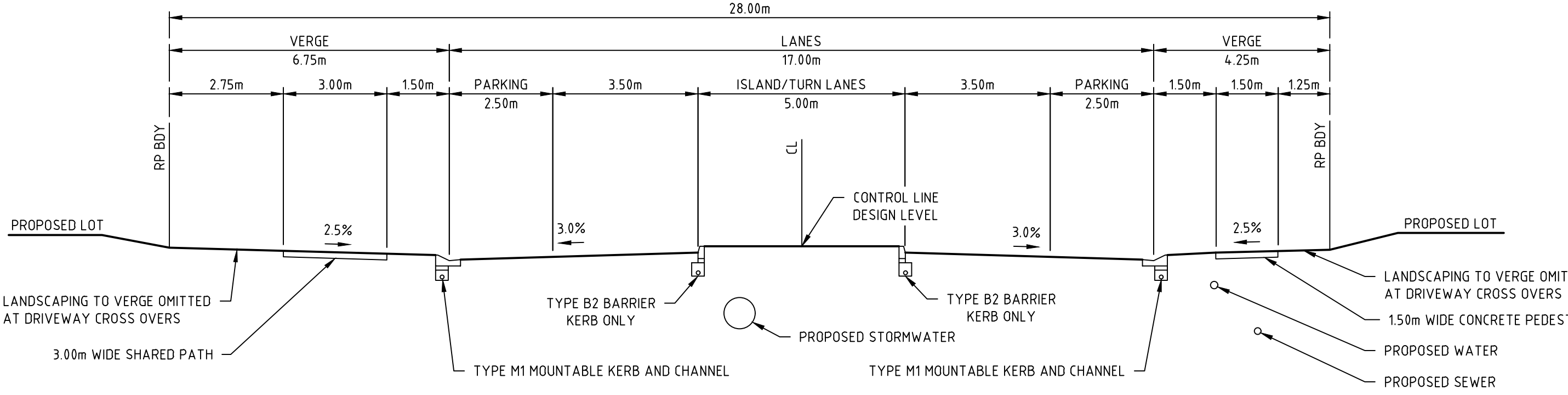
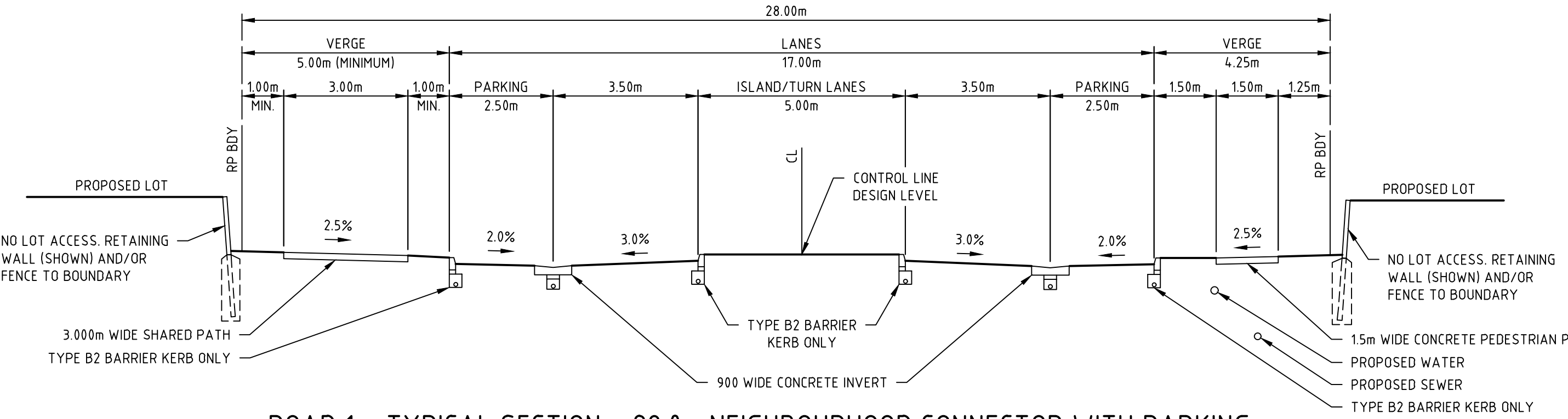
**AMORY AT RIPLEY  
STAGE 01  
OVERALL KEY PLAN**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0102

Rev  
2



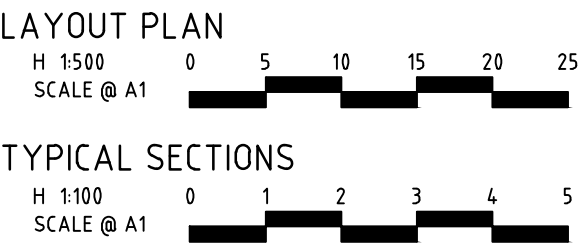


**NOTE:**

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

**TYPICAL SECTION - 15.00m NEIGHBOURHOOD ACCESS ROAD**  
**ROAD 2 - CH.000 TO CH 121.500**  
**ROAD 3 - CH.000 TO CH 46.750**  
**ROAD 4 - CH.000 TO CH 64.500**  
SCALE 1:100

|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| 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  
Checked K. HOWELLS  
Authorised M. READMAN RPEQ 28295  
Date DECEMBER 23

**AMORY AT RIPLEY**  
**STAGE 01**  
**CONTROL LINE LAYOUT PLAN**  
**AND TYPICAL ROAD SECTIONS**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD  
**CONSTRUCTION** Drg No 320678-01-C0103 Rev 2



## 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

FUTURE  
STAGE

FUTURE  
STAGE

## 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 1 OF 2

SCALE 1:250

FOR CONTINUATION REFER TO DRG 320678-01-C0201

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

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.

**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 01  
EARTHWORKS LAYOUT PLAN  
SHEET 1 OF 2**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0200

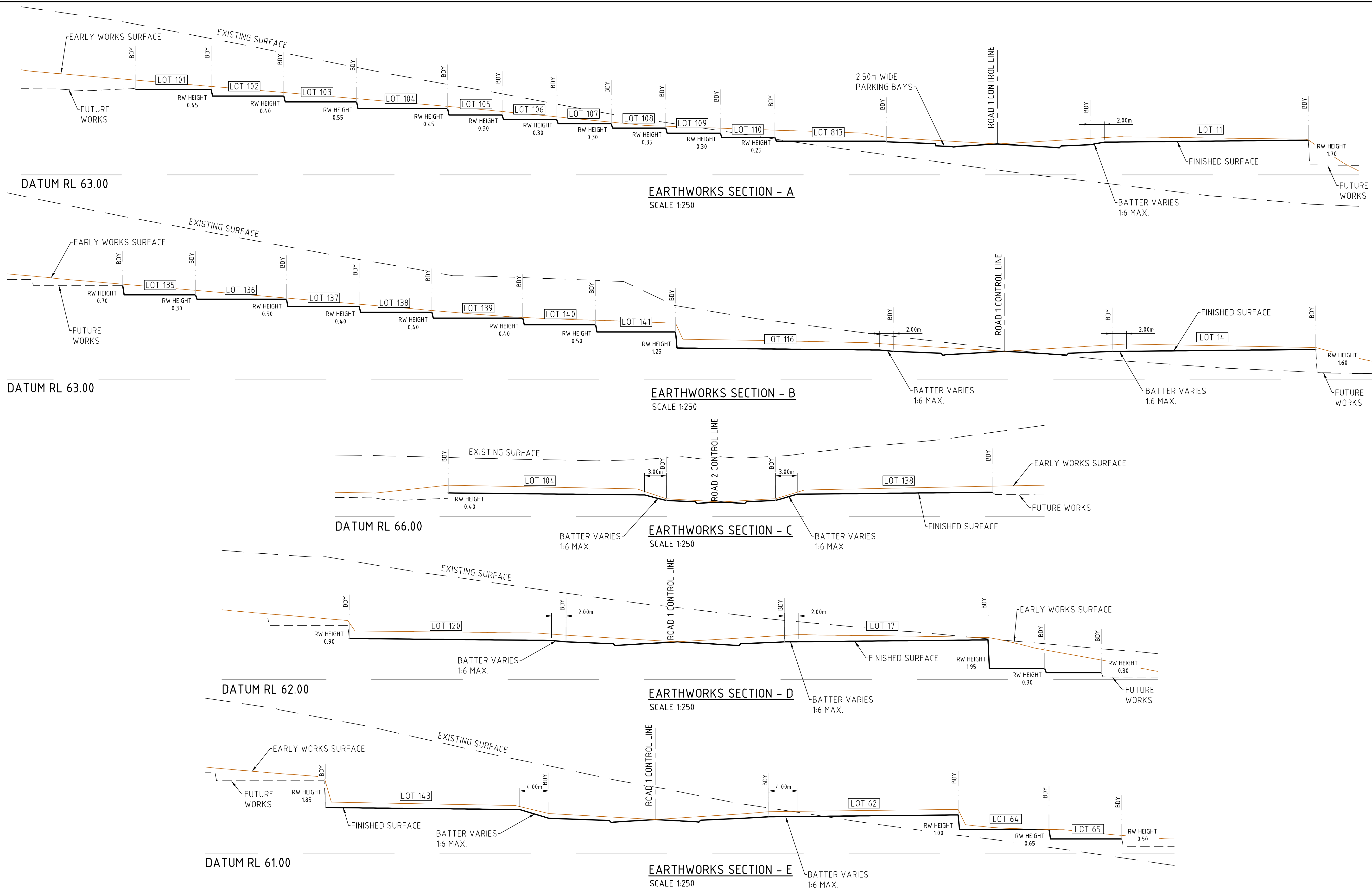
Rev  
2



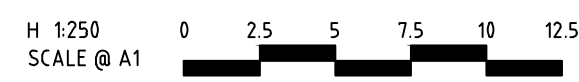




file name: 320678-01A-C0202.dwg layout name: C0202 plotted by: Charlene Chessells



| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



© 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 01  
EARTHWORKS SITE SECTIONS**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0202

Rev  
2



DESIGN PAVEMENT PROFILE- TYPE A

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

DESIGN PAVEMENT PROFILE- TYPE B

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

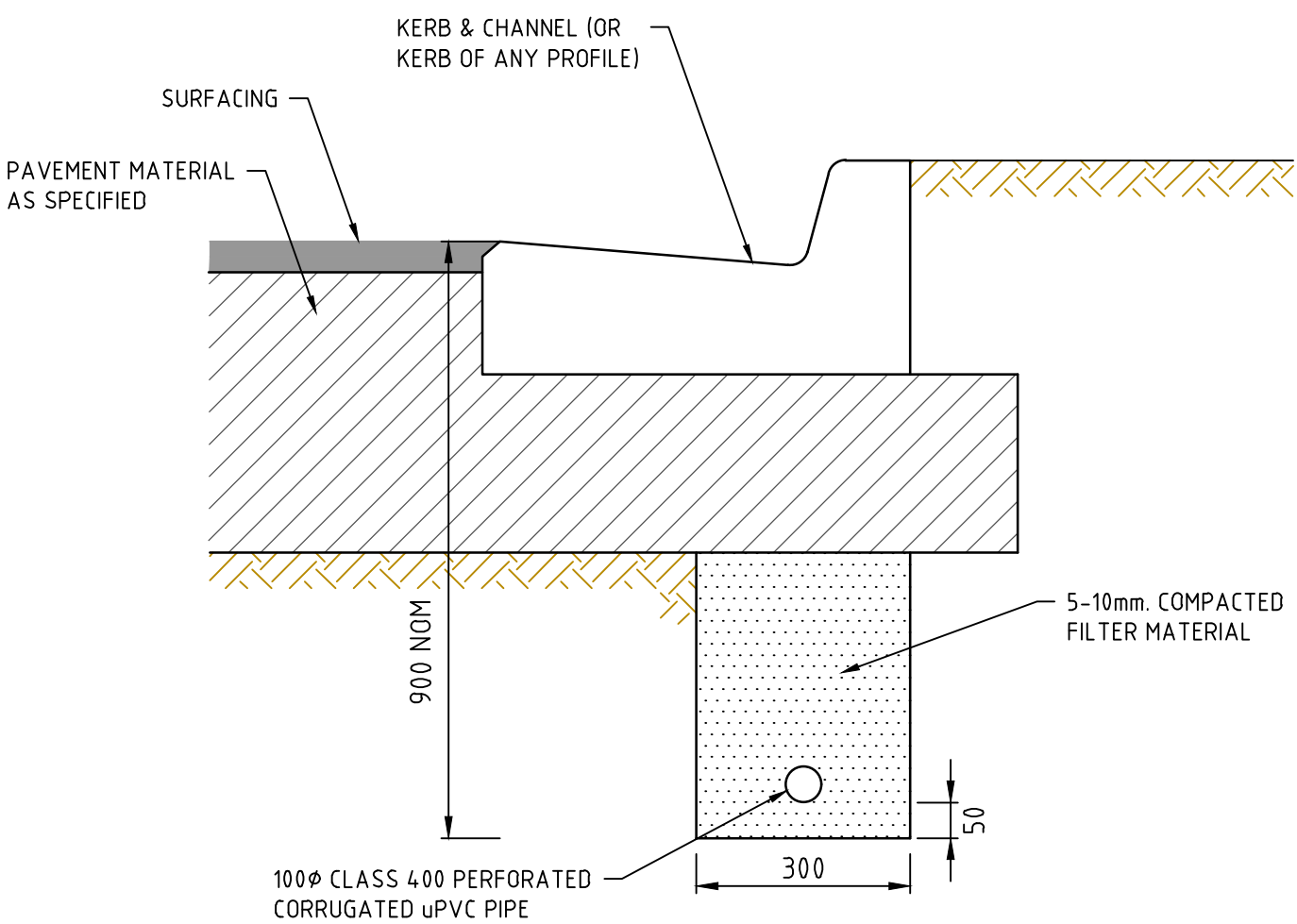
DESIGN PAVEMENT PROFILE- TYPE C

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

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

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

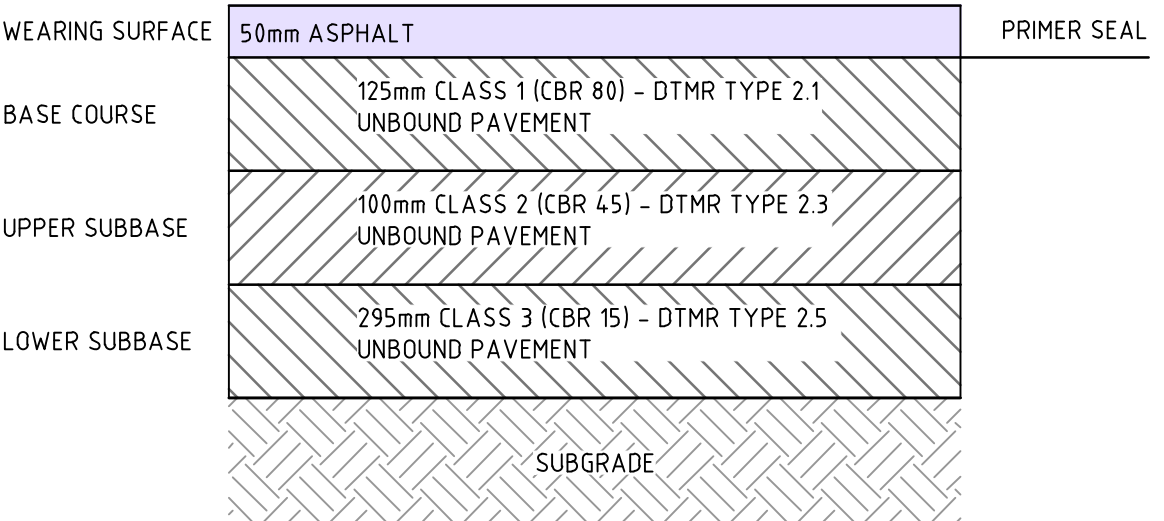
100mm N32 CONCRETE WITH 50mm SAND- REFER IPWEA RS-065

FOOTPATHS

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

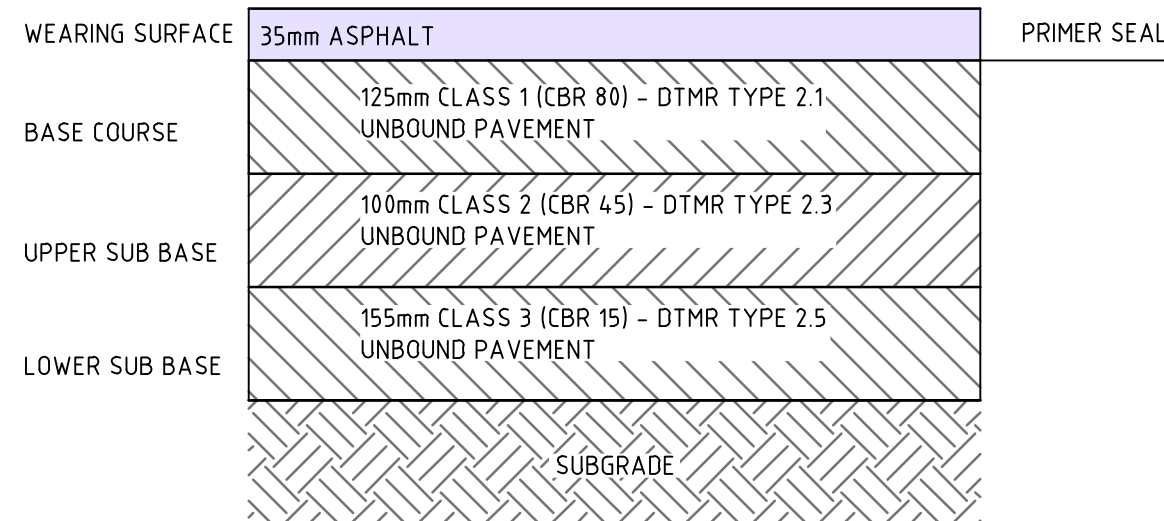
DRIVEWAYS (FUTURE LANEWAY ACCESS)

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



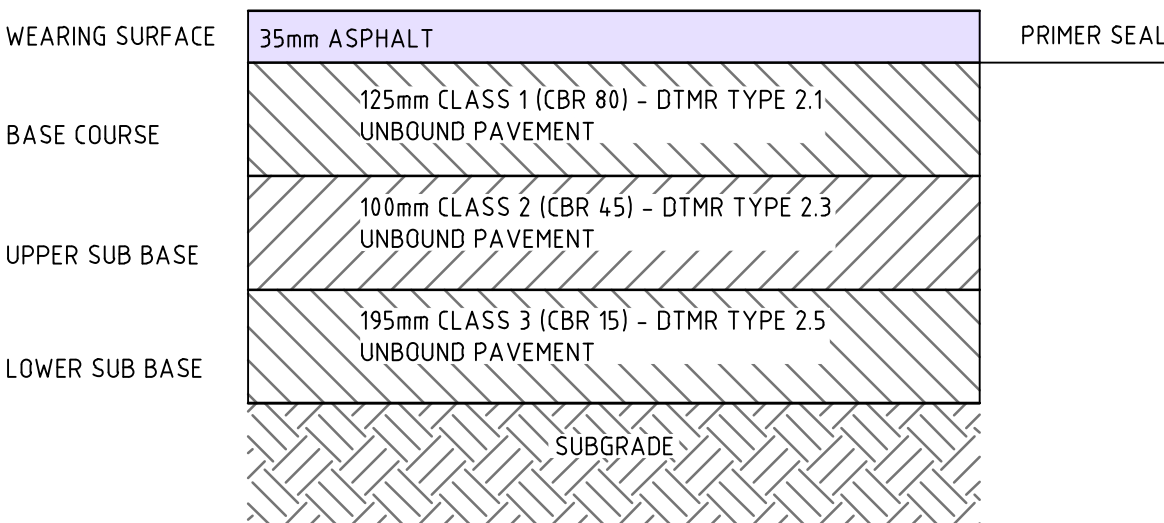
PAVEMENT TYPE A

RIPLEY LOOP



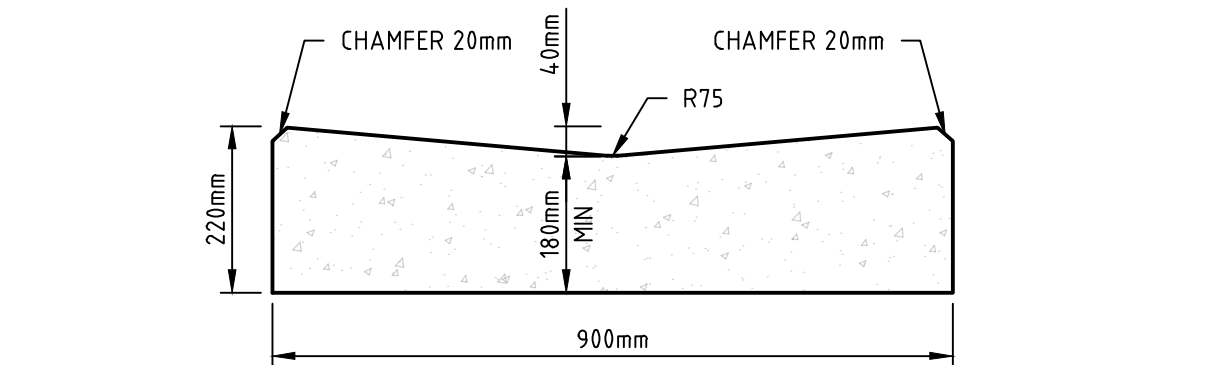
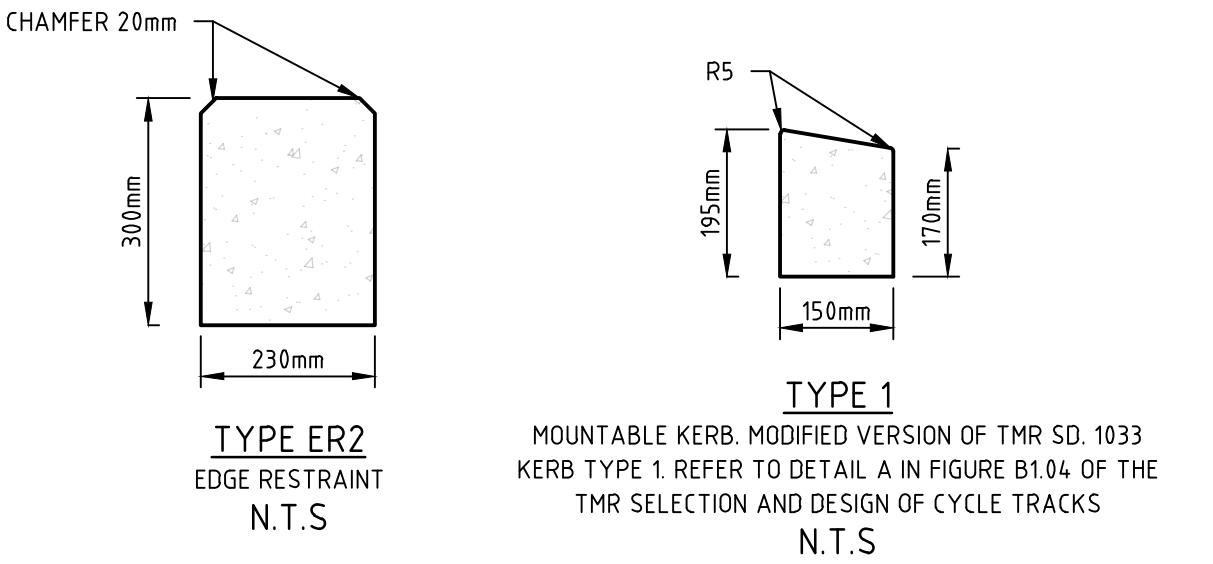
PAVEMENT TYPE B

ROAD 2, 3, 4



PAVEMENT TYPE C

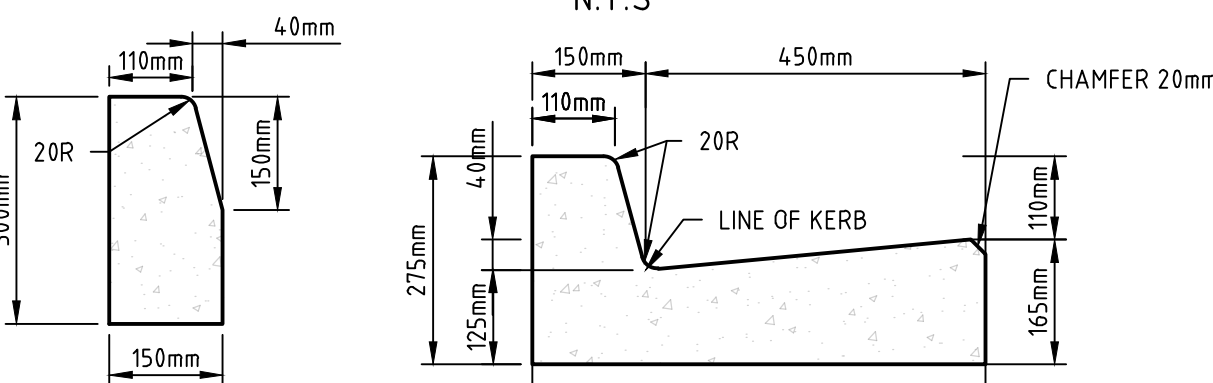
ROAD 1



TYPE CHANNEL

INVERT

N.T.S.



TYPE B2

BARRIER KERB

N.T.S.

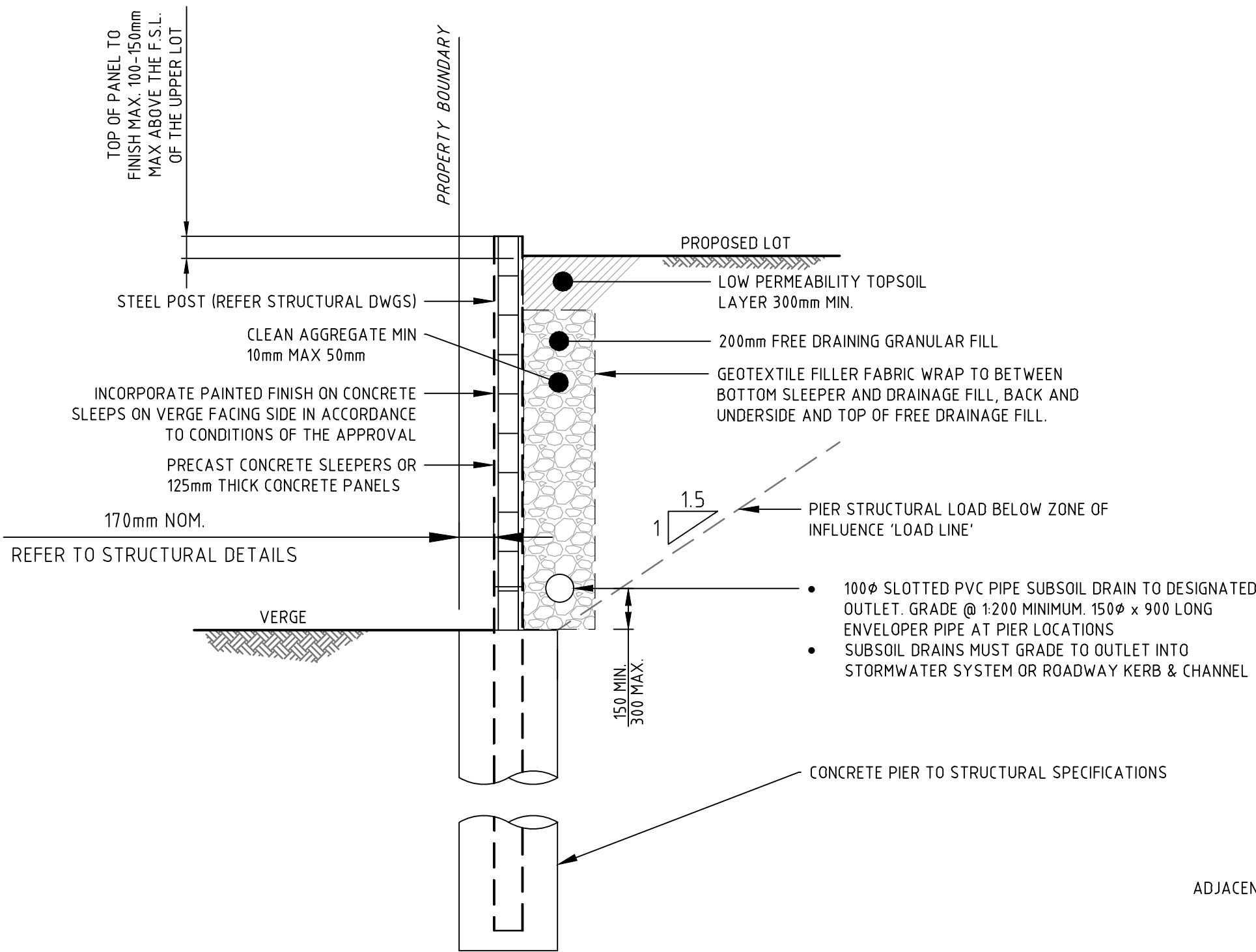
TYPE B1

BARRIER KERB

N.T.S.

STANDARD KERB PROFILES

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

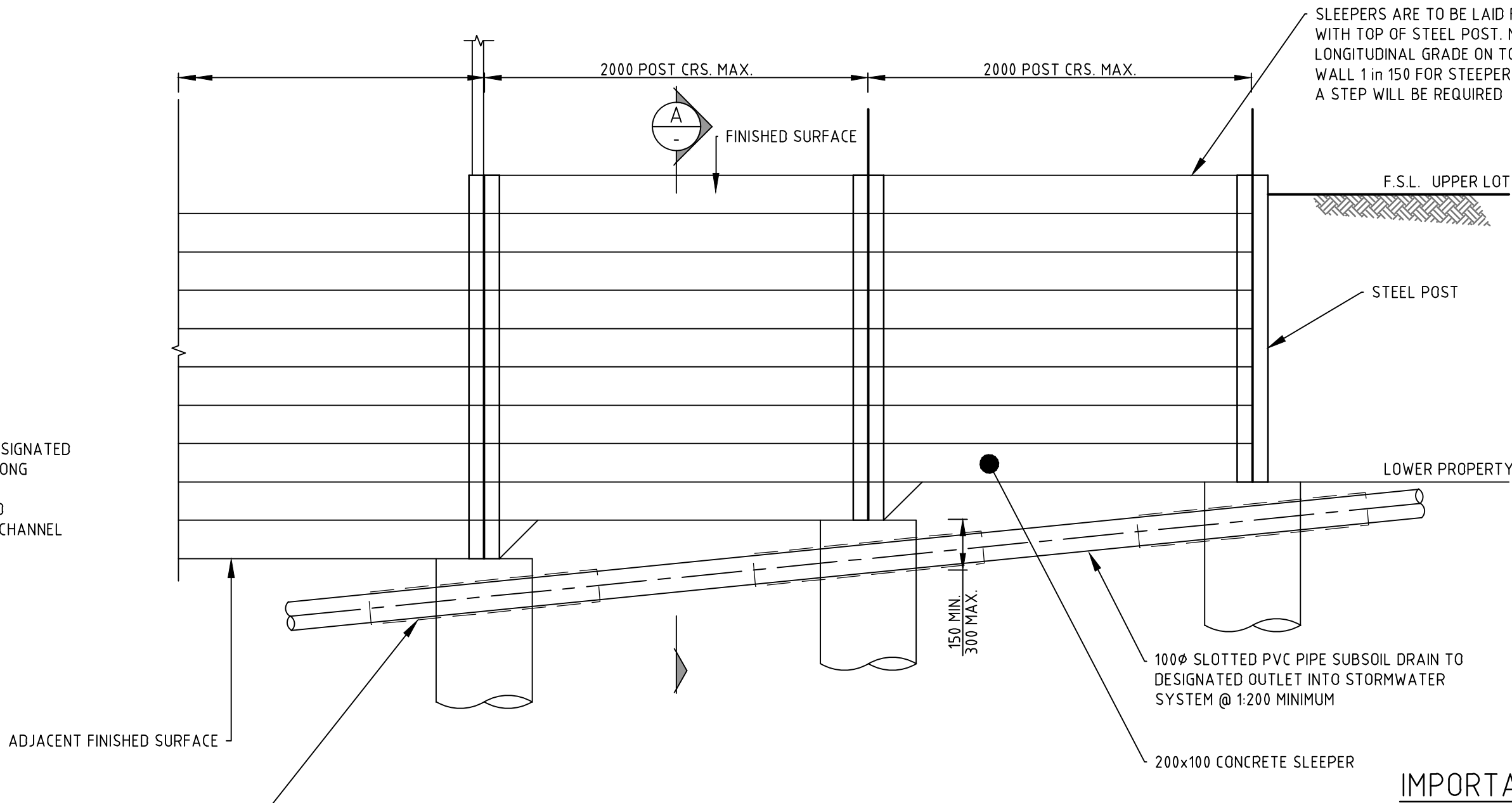


RETAINING WALL FRONTING ROAD RESERVE

Scale 1: 25

RETAINING WALL FRONTING ROAD RESERVE NOTE:-

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



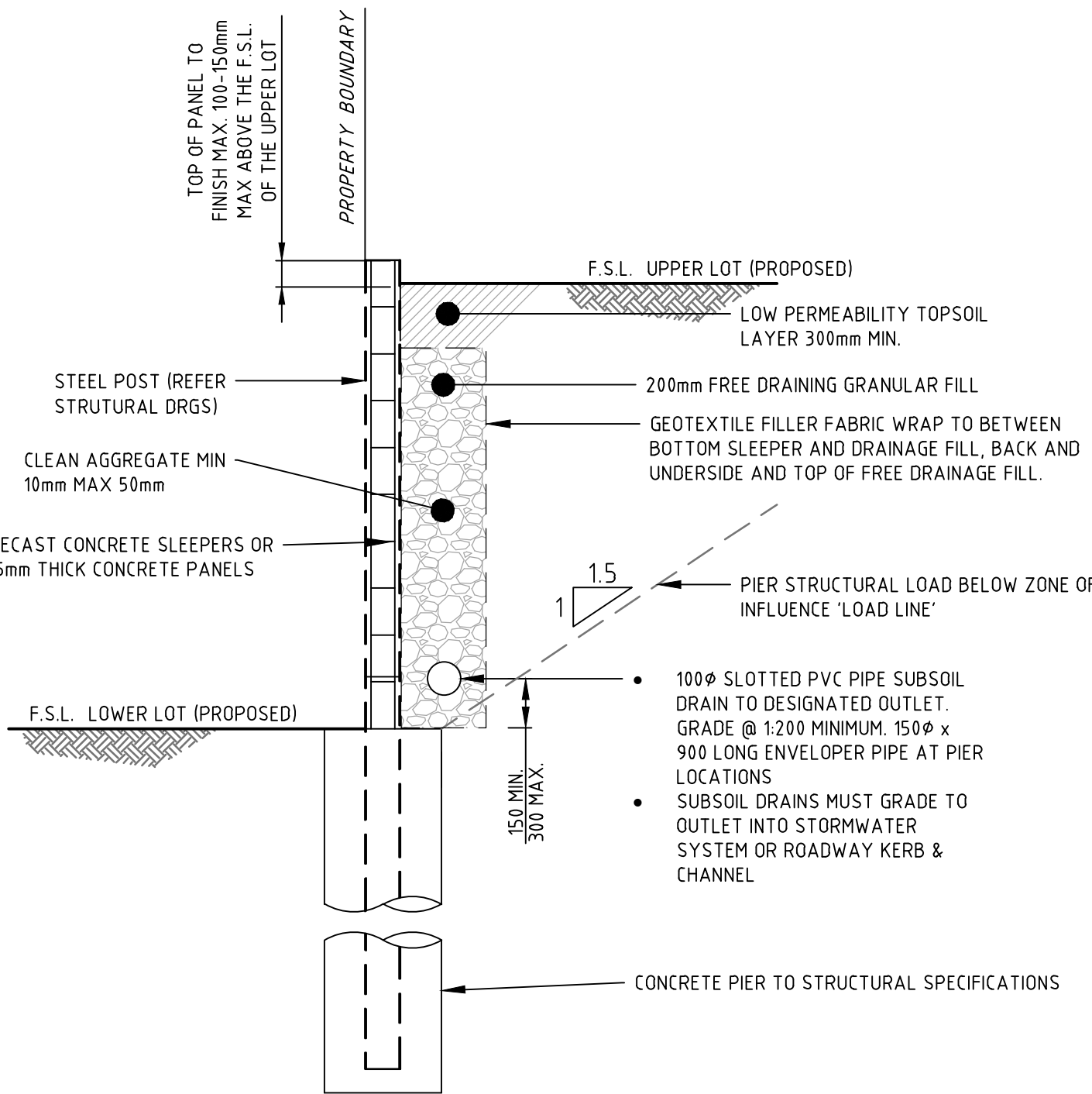
TYPICAL RETAINING WALL PART ELEVATION

Scale 1: 25

IMPORTANT NOTES:-

RETAINING WALLS/PROPERTY BOUNDARY

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



SECTION - A

Scale 1: 25

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



© 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 01**  
**ROADWORKS STANDARD NOTES AND DETAILS**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
**320678-01-C0300**

Rev  
**2**

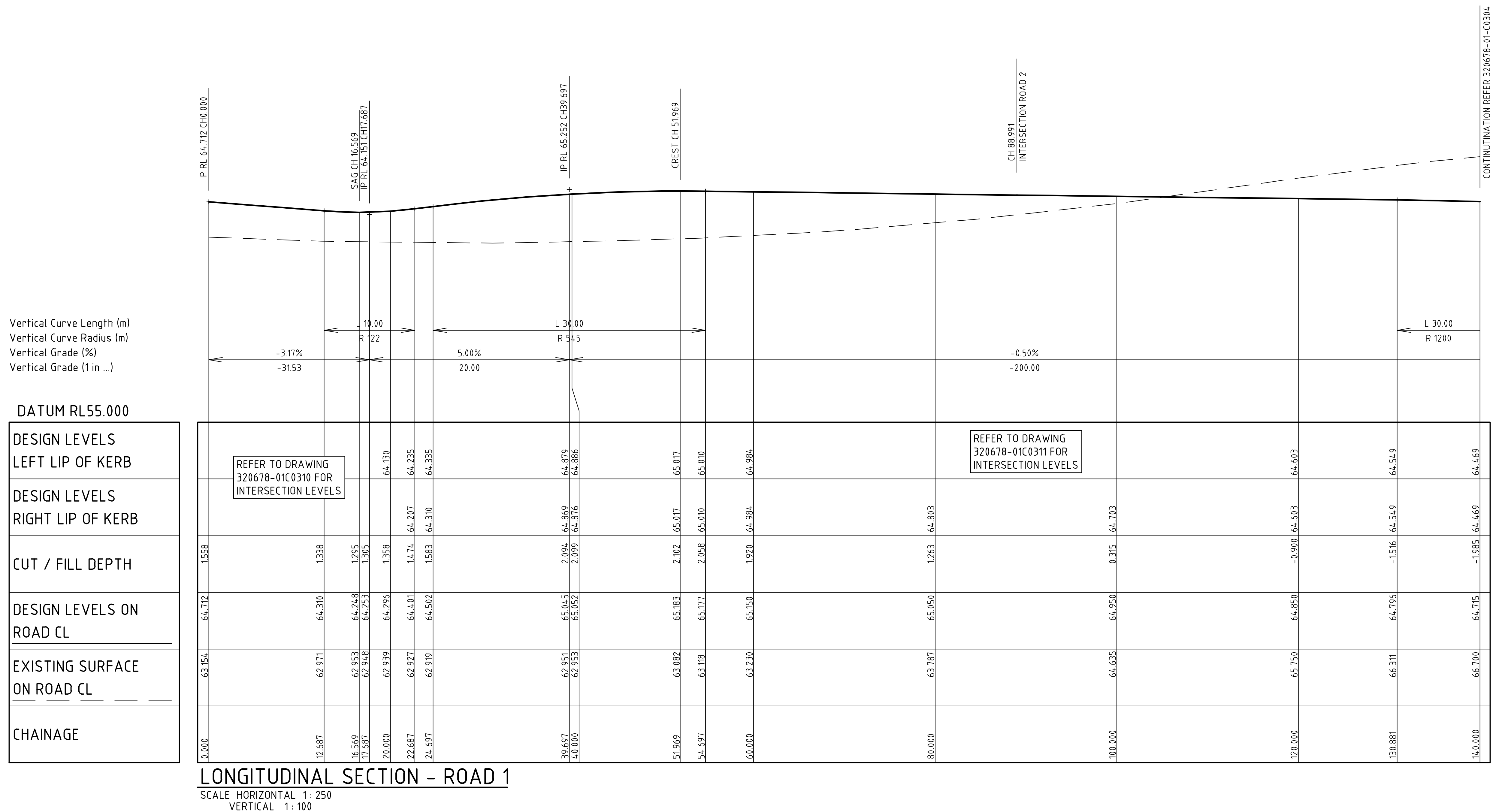












|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| Rev | Amendments             | Approved | Date     |



**spiire**



Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

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

Rev  
2



file name 320678-01AC0304.dwg layout name C0304 plotted by Charlene Chessells  
FILE DETAILS

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

DATUM RL55.000

| DESIGN LEVELS<br>LEFT LIP OF KERB  |
|------------------------------------|
| DESIGN LEVELS<br>RIGHT LIP OF KERB |
| CUT / FILL DEPTH                   |
| DESIGN LEVELS ON<br>ROAD CL        |
| EXISTING SURFACE<br>ON ROAD CL     |
| CHAINAGE                           |



| CONTROL LINE - ROAD 1 - HORIZONTAL POINTS |          |          |           |        |               |             |          |             |
|-------------------------------------------|----------|----------|-----------|--------|---------------|-------------|----------|-------------|
| PT                                        | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE  |
| IP 1                                      | 0.000    | 9979.420 | 37281.728 | 64.712 | 189°00'50.01" |             |          |             |
|                                           | 10.000   | 9977.853 | 37271.852 | 64.395 | 189°00'50.01" |             |          |             |
|                                           | 20.000   | 9976.287 | 37261.975 | 64.296 | 189°00'50.01" |             |          |             |
|                                           | 30.000   | 9974.720 | 37252.099 | 64.741 | 189°00'50.01" |             |          |             |
|                                           | 40.000   | 9973.153 | 37242.222 | 65.052 | 189°00'50.01" |             |          |             |
|                                           | 50.000   | 9971.586 | 37232.346 | 65.180 | 189°00'50.01" |             |          |             |
|                                           | 60.000   | 9970.020 | 37222.469 | 65.150 | 189°00'50.01" |             |          |             |
|                                           | 70.000   | 9968.453 | 37212.593 | 65.100 | 189°00'50.01" |             |          |             |
|                                           | 80.000   | 9966.886 | 37202.716 | 65.050 | 189°00'50.01" |             |          |             |
|                                           | 90.000   | 9965.319 | 37192.840 | 65.000 | 189°00'50.01" |             |          |             |
|                                           | 100.000  | 9963.753 | 37182.963 | 64.950 | 189°00'50.01" |             |          |             |
|                                           | 110.000  | 9962.186 | 37173.087 | 64.900 | 189°00'50.01" |             |          |             |
|                                           | 120.000  | 9960.619 | 37163.210 | 64.850 | 189°00'50.01" |             |          |             |
|                                           | 130.000  | 9959.052 | 37153.334 | 64.800 | 189°00'50.01" |             |          |             |
|                                           | 140.000  | 9957.486 | 37143.457 | 64.715 | 189°00'50.01" |             |          |             |
|                                           | 150.000  | 9955.919 | 37133.581 | 64.548 | 189°00'50.01" |             |          |             |
|                                           | 160.000  | 9954.352 | 37123.704 | 64.297 | 189°00'50.01" |             |          |             |
| TC                                        | 170.000  | 9952.786 | 37113.828 | 63.997 | 189°00'50.01" |             |          |             |
|                                           | 172.831  | 9952.342 | 37111.031 | 63.912 | 189°00'50.01" |             |          |             |
|                                           | 180.000  | 9951.134 | 37103.965 | 63.697 | 190°22'58.82" |             |          |             |
| IP 2                                      | 190.000  | 9949.168 | 37094.161 | 63.397 | 192°17'34.31" |             |          |             |
|                                           | 196.167  | 9948.678 | 37087.937 | 63.212 |               | R = 300.000 | 46.672   | 8°54'49.22" |
|                                           | 200.000  | 9946.877 | 37084.428 | 63.097 | 194°12'09.80" |             |          |             |
| CT                                        | 210.000  | 9944.262 | 37074.776 | 62.797 | 196°06'45.30" |             |          |             |
|                                           | 219.503  | 9941.481 | 37065.689 | 62.512 | 197°55'39.23" |             |          |             |
|                                           | 220.000  | 9941.328 | 37065.217 | 62.497 | 197°55'39.23" |             |          |             |

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

H 1: 250  
SCALE @ A1  
V 1: 100

0 2.5 5 7.5 10 12.5  
0 1 2 3 4 5



© 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 01  
ROAD 1 LONGITUDINAL SECTION  
SHEET 2 OF 2  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

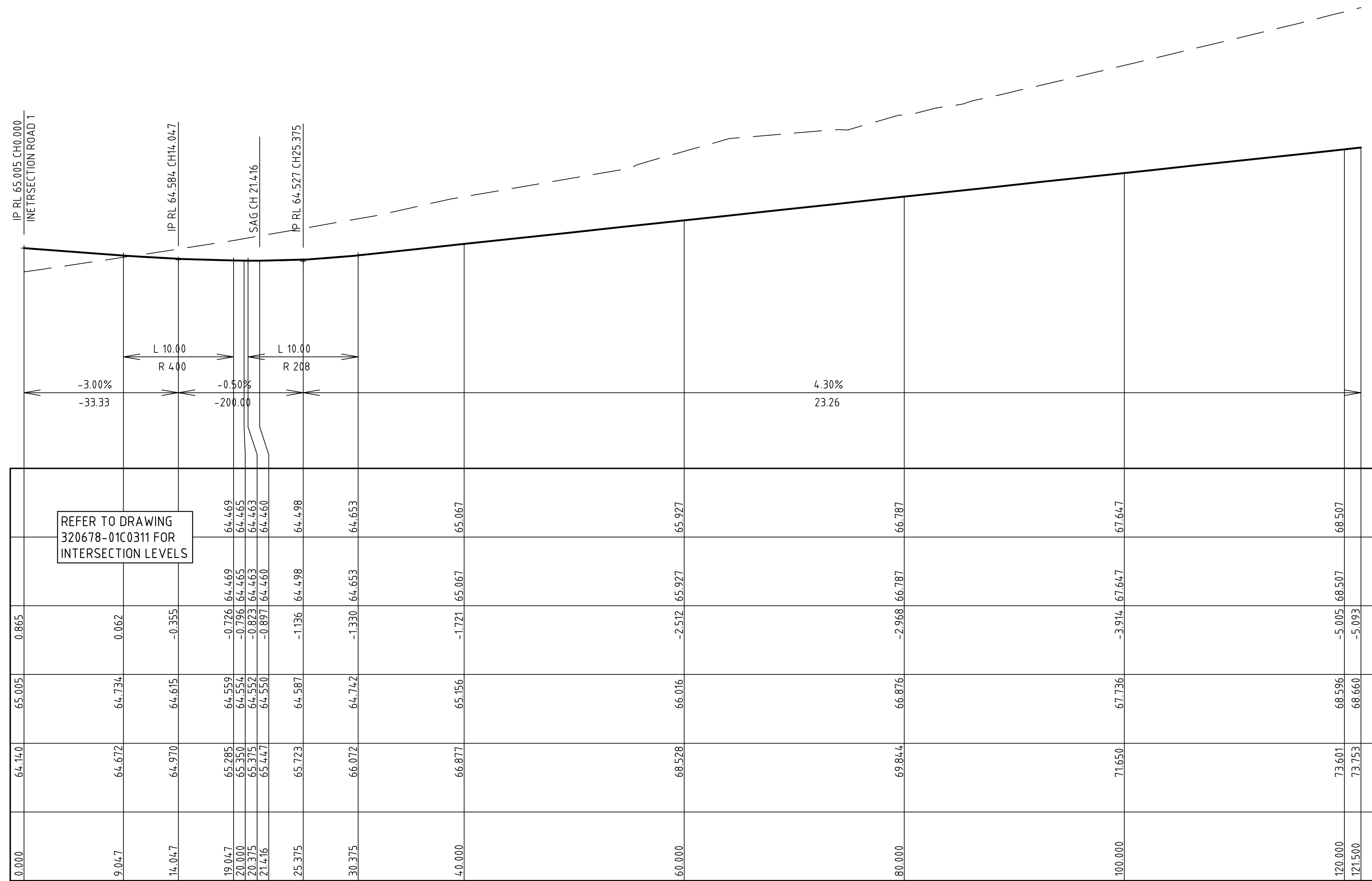
**CONSTRUCTION** Drg No  
320678-01-C0304

Rev  
2



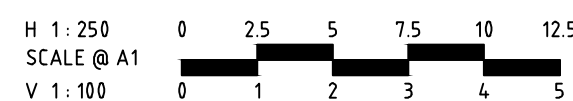






| CONTROL LINE - ROAD 2 - HORIZONTAL POINTS |          |           |           |               |               |
|-------------------------------------------|----------|-----------|-----------|---------------|---------------|
| PT                                        | CHAINAGE | EASTING   | NORTHING  | HEIGHT        | BEARING       |
| IP 1                                      | 0.00     | 9965.481  | 37193.836 | 65.005        | 279°00'49.57" |
|                                           | 10.00    | 9955.605  | 37195.403 | 64.706        | 279°00'49.57" |
|                                           | 20.00    | 9945.728  | 37196.969 | 64.554        | 279°00'49.57" |
|                                           | 30.00    | 9935.852  | 37198.536 | 64.726        | 279°00'49.57" |
|                                           | 40.00    | 9925.975  | 37200.103 | 65.156        | 279°00'49.57" |
|                                           | 50.00    | 9916.099  | 37201.669 | 65.586        | 279°00'49.57" |
|                                           | 60.00    | 9906.222  | 37203.236 | 66.016        | 279°00'49.57" |
|                                           | 70.00    | 9896.346  | 37204.803 | 66.446        | 279°00'49.57" |
|                                           | 80.00    | 9886.469  | 37206.370 | 66.876        | 279°00'49.57" |
|                                           | 90.00    | 9876.593  | 37207.936 | 67.306        | 279°00'49.57" |
|                                           | 100.00   | 9866.716  | 37209.503 | 67.736        | 279°00'49.57" |
|                                           | 110.00   | 9856.840  | 37211.070 | 68.166        | 279°00'49.57" |
| 120.00                                    | 9846.963 | 37212.637 | 68.596    | 279°00'49.57" |               |

|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| 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. READ

Checked  
K. HOWELLS

Date  
DECEMBER 23

**AMORY AT RIPLEY**  
**STAGE 01**  
**ROAD 2 LONGITUDINAL SECTION**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01-C0306**

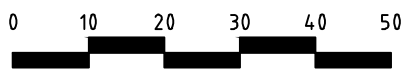
Rev  
2



file name: 320678-01AC0307.dwg layout name: C0307 plotted by: Charlene Chessells  
FILE DETAILS

|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| Rev | Amendments             | Approved | Date     |

H: 1/1000  
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<br><b>T.MULLEN</b>                | Checked<br><b>K. HOWELLS</b> |
| Authorised<br><b>M. READMAN RPEQ 28295</b> | Date<br><b>DECEMBER 23</b>   |

**AMORY AT RIPLEY  
STAGE 01  
ROAD 2 CROSS SECTIONS**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01-C0307** Rev **2**

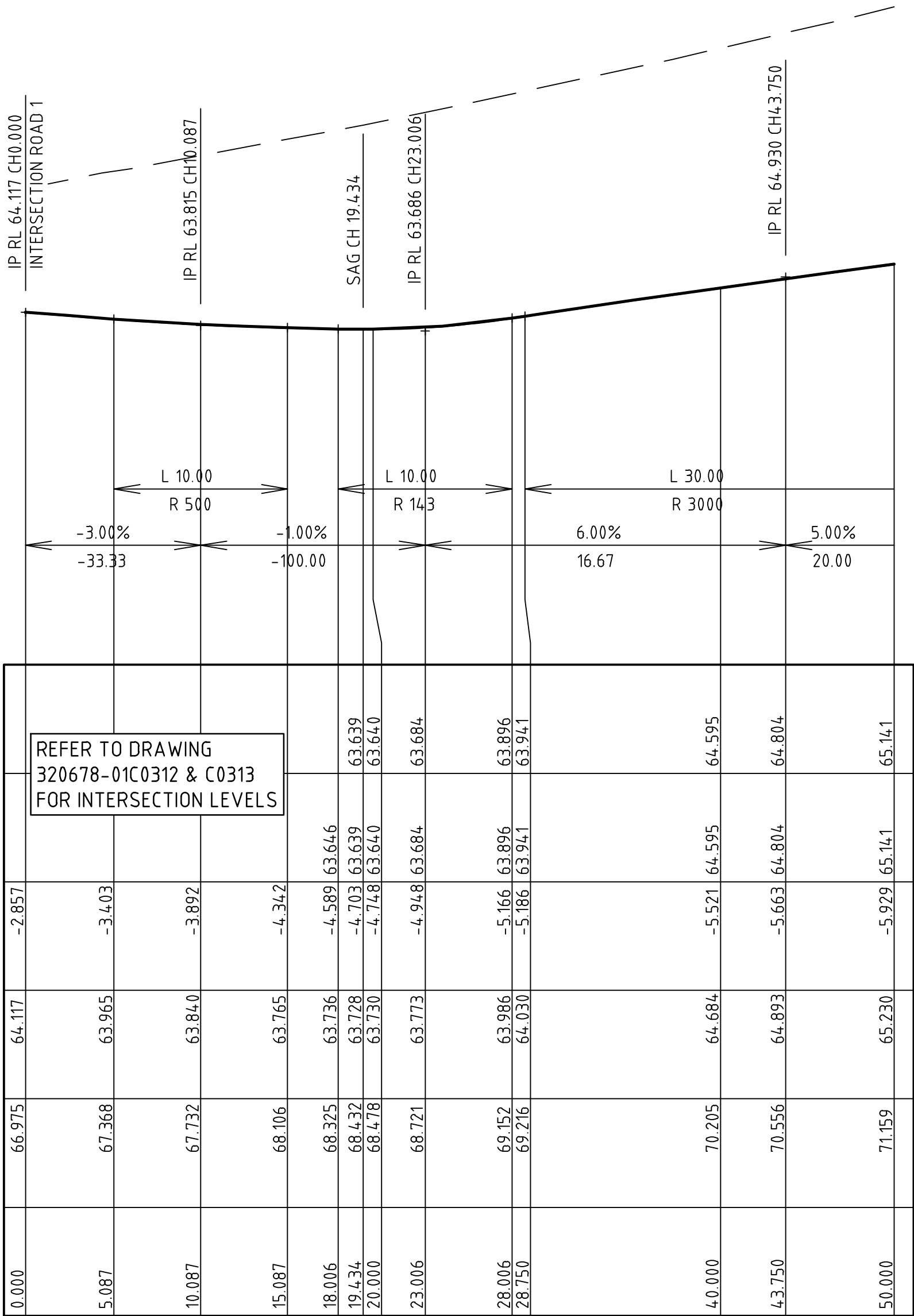


file name 320678-01AC0308.dwg layout name C0308 plotted by Charlene Chessells

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

DATUM RL56.000

| DESIGN LEVELS<br>LEFT LIP OF KERB  |
|------------------------------------|
| DESIGN LEVELS<br>RIGHT LIP OF KERB |
| CUT / FILL DEPTH                   |
| DESIGN LEVELS ON<br>ROAD CL        |
| EXISTING SURFACE<br>ON ROAD CL     |
| CHAINAGE                           |



### LONGITUDINAL SECTION - ROAD 3

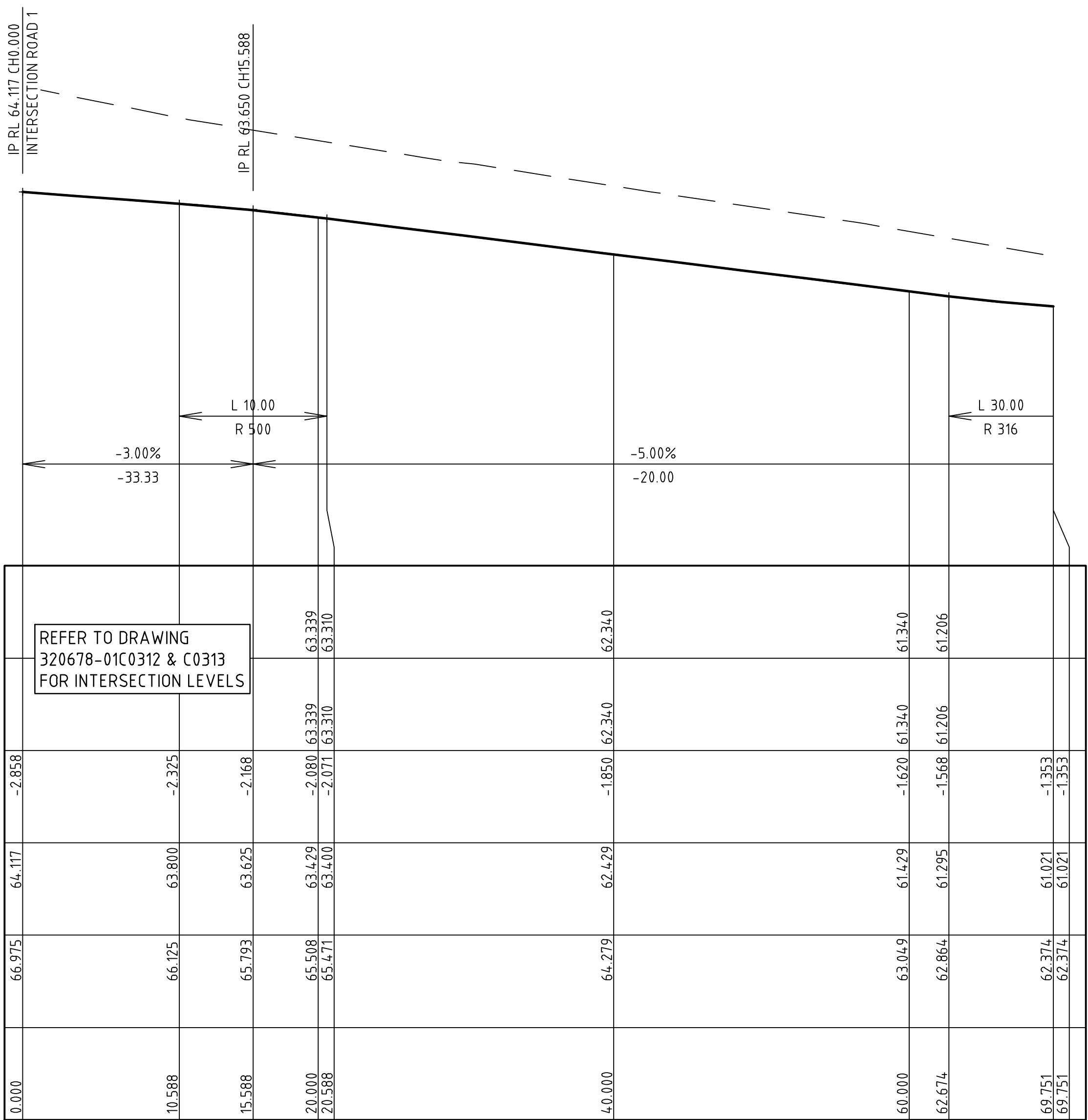
SCALE HORIZONTAL 1 : 250  
VERTICAL 1 : 100

| CONTROL LINE - ROAD 3 - HORIZONTAL POINTS |          |          |           |        |               |
|-------------------------------------------|----------|----------|-----------|--------|---------------|
| PT                                        | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       |
| IP 1                                      | 0.000    | 9953.419 | 37117.787 | 64.117 | 279°00'49.79" |
|                                           | 10.000   | 9943.542 | 37119.353 | 63.842 | 279°00'49.79" |
|                                           | 20.000   | 9933.666 | 37120.920 | 63.730 | 279°00'49.79" |
|                                           | 30.000   | 9923.789 | 37122.487 | 64.105 | 279°00'49.79" |
|                                           | 40.000   | 9913.913 | 37124.054 | 64.684 | 279°00'49.79" |
|                                           | 50.000   | 9904.036 | 37125.620 | 65.230 | 279°00'49.79" |

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

DATUM RL54.000

| DESIGN LEVELS<br>LEFT LIP OF KERB  |
|------------------------------------|
| DESIGN LEVELS<br>RIGHT LIP OF KERB |
| CUT / FILL DEPTH                   |
| DESIGN LEVELS ON<br>ROAD CL        |
| EXISTING SURFACE<br>ON ROAD CL     |
| CHAINAGE                           |



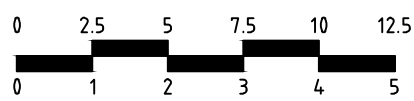
### LONGITUDINAL SECTION - ROAD 4

SCALE HORIZONTAL 1 : 250  
VERTICAL 1 : 100

| CONTROL LINE - ROAD 4 - HORIZONTAL POINTS |          |           |           |        |              |
|-------------------------------------------|----------|-----------|-----------|--------|--------------|
| PT                                        | CHAINAGE | EASTING   | NORTHING  | HEIGHT | BEARING      |
| IP 1                                      | 0.000    | 9953.413  | 37117.787 | 64.117 | 99°00'49.87" |
|                                           | 10.000   | 9963.289  | 37116.221 | 63.817 | 99°00'49.87" |
|                                           | 20.000   | 9973.166  | 37114.654 | 63.429 | 99°00'49.87" |
|                                           | 30.000   | 9983.042  | 37113.087 | 62.929 | 99°00'49.87" |
|                                           | 40.000   | 9992.919  | 37111.521 | 62.429 | 99°00'49.87" |
|                                           | 50.000   | 10002.795 | 37109.954 | 61.929 | 99°00'49.87" |
|                                           | 60.000   | 10012.672 | 37108.387 | 61.429 | 99°00'49.87" |
| TC                                        | 69.751   | 10022.302 | 37106.859 | 61.021 | 99°00'49.87" |

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

H 1 : 250  
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  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

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

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0308 Rev  
2







file name: 320678-01A-C0310.dwg layout name: C0310 plotted by: Charlene Chessells

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

DATUM RL59.000

| CUT / FILL DEPTH            | 0.715  | 0.704  | 0.445  | 0.219  | -0.271 |
|-----------------------------|--------|--------|--------|--------|--------|
| DESIGN LEVELS ON ROAD CL    | 64.127 | 64.367 | 64.686 | 64.931 | 65.265 |
| EXISTING SURFACE ON ROAD CL | 63.412 | 63.663 | 64.241 | 64.712 | 65.535 |
| CHAINAGE                    | 0.000  | 7.313  | 14.627 | 20.000 | 29.253 |

LONGITUDINAL SECTION - RD1/RIPLEY LOOP  
SCALE HORIZONTAL 1:200  
VERTICAL 1:50

INTERSECTION DETAIL PLAN - RIPLEY LOOP/ROAD 1  
SCALE 1:100

| KERB RETURN RD1/RIPLEY LOOP - HORIZONTAL POINTS |          |          |           |        |               |              |          |              |
|-------------------------------------------------|----------|----------|-----------|--------|---------------|--------------|----------|--------------|
| PT                                              | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL   | A.LENGTH | DEFL.ANGLE   |
| IP 1                                            | 0.000    | 9970.819 | 37262.932 | 64.127 | 9°00'50.01"   | R = -10.450  | 14.915   | 81°46'31.49" |
|                                                 | 5.000    | 9970.414 | 37267.868 | 64.282 | 341°35'58.72" |              |          |              |
| IP 2                                            | 7.457    | 9972.237 | 37271.869 | 64.372 | 314°11'07.42" | R = -10.450  | 14.915   | 81°46'31.49" |
|                                                 | 10.000   | 9967.782 | 37272.063 | 64.475 |               |              |          |              |
| CC                                              | 14.915   | 9963.595 | 37274.550 | 64.700 | 287°14'18.52" | R = -100.450 | 14.339   | 8°10'43.01"  |
|                                                 | 15.000   | 9963.513 | 37274.575 | 64.704 | 287°11'23.50" |              |          |              |
| IP 3                                            | 20.000   | 9958.702 | 37275.933 | 64.931 | 284°20'16.46" | R = -100.450 | 14.339   | 8°10'43.01"  |
|                                                 | 22.084   | 9956.736 | 37276.678 | 65.016 | 281°29'09.42" |              |          |              |
| IP 4                                            | 25.000   | 9953.829 | 37277.051 | 65.125 | 281°29'09.42" | R = -100.450 | 14.339   | 8°10'43.01"  |
|                                                 | 29.253   | 9949.644 | 37277.809 | 65.265 | 279°03'35.51" |              |          |              |

| KERB RETURN RIPLEY LOOP/RD1 - HORIZONTAL POINTS |          |          |           |        |               |             |          |              |
|-------------------------------------------------|----------|----------|-----------|--------|---------------|-------------|----------|--------------|
| PT                                              | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
| IP 1                                            | 0.000    | 9995.695 | 37267.898 | 64.042 | 286°06'24.93" | R = -10.450 | 17.708   | 97°05'34.92" |
|                                                 | 5.000    | 9990.747 | 37268.106 | 64.075 | 258°41'33.63" |             |          |              |
| IP 2                                            | 8.854    | 9984.328 | 37271.180 | 64.100 | 231°16'42.34" | R = -10.450 | 17.708   | 97°05'34.92" |
|                                                 | 10.000   | 9986.259 | 37266.011 | 64.108 | 203°51'51.04" |             |          |              |
| IP 3                                            | 15.000   | 9983.239 | 37262.086 | 64.141 | 189°00'50.01" | R = -10.450 | 17.708   | 97°05'34.92" |
|                                                 | 17.708   | 9982.475 | 37259.496 | 64.158 | 189°00'50.01" |             |          |              |

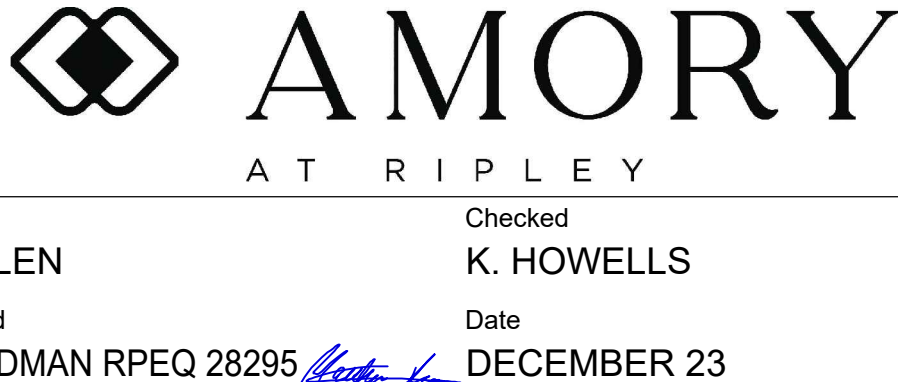
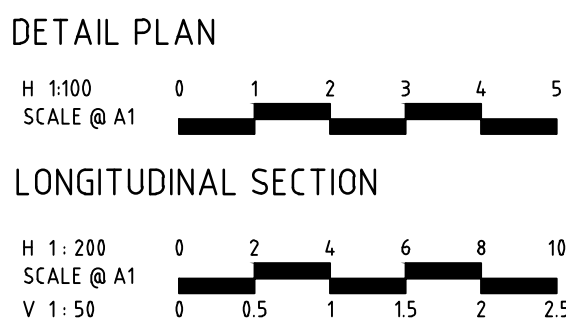
Vertical Curve Length (m)  
Vertical Curve Radius (m)  
Vertical Grade (%)  
Vertical Grade (1 in ...)

DATUM RL58.000

| CUT / FILL DEPTH            | 2.519  | 1.721  |
|-----------------------------|--------|--------|
| DESIGN LEVELS ON ROAD CL    | 64.042 | 64.158 |
| EXISTING SURFACE ON ROAD CL | 61.523 | 62.437 |
| CHAINAGE                    | 0.000  | 17.708 |

LONGITUDINAL SECTION - RIPLEY LOOP/RD1  
SCALE HORIZONTAL 1:200  
VERTICAL 1:50

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



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

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

CONSTRUCTION  
Drg No  
320678-01-C0310

Rev  
2



file name: 320678-01-C0311.dwg layout name: C0311 plotted by: Charlene Chessells

|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| Rev | Amendments             | Approved | Date     |

DETAIL PLAN

H 1:100  
SCALE @ A1

LONGITUDINAL SECTION

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**

A T R I P L E Y

Designed  
T.MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

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

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0311

Rev  
2

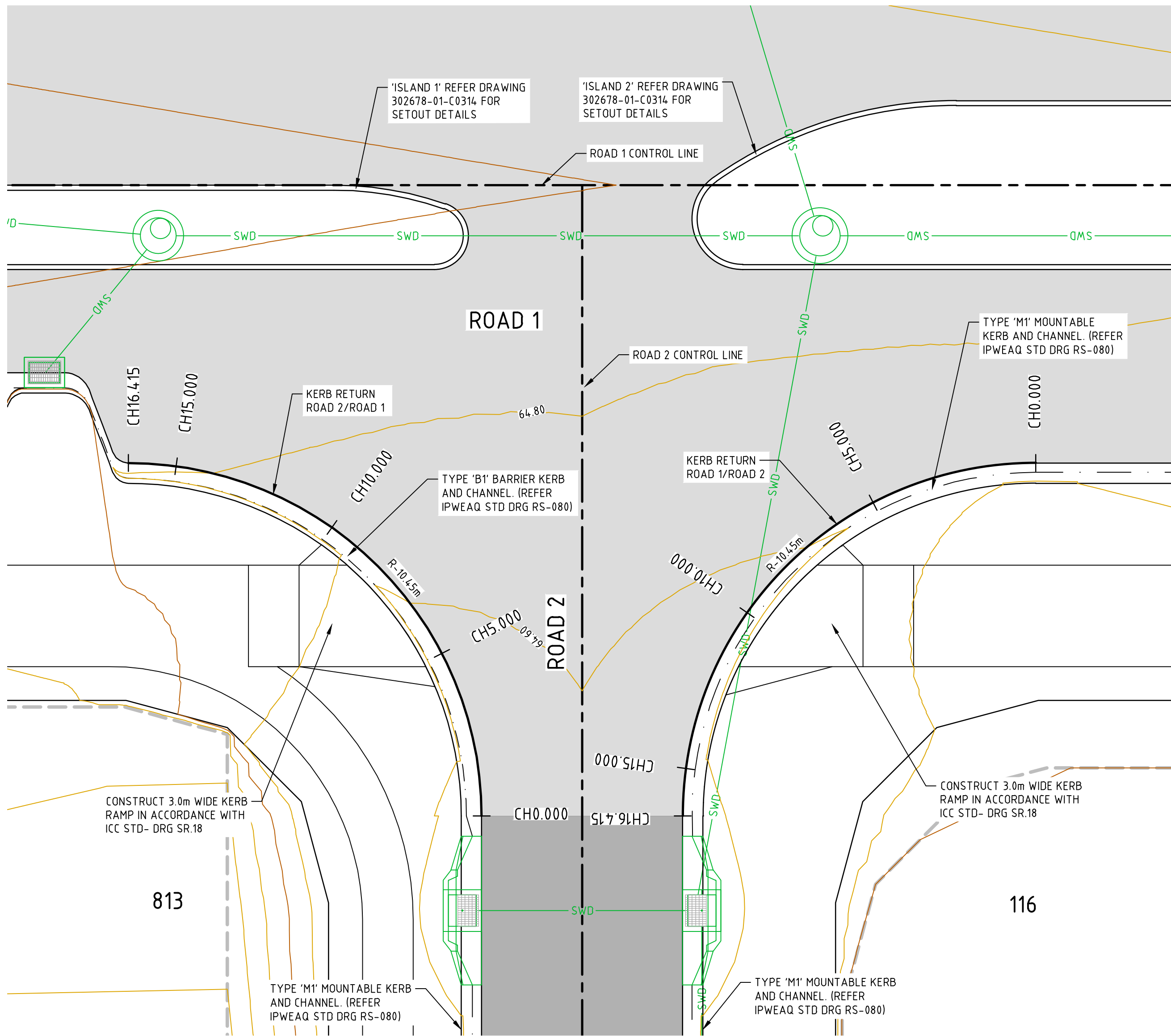
Vertical Curve Length (m)  
Vertical Curve Radius (m)  
Vertical Grade (%)  
Vertical Grade (1 in ...)

DATUM RL60.000

| CUT / FILL DEPTH             | -0.692 | -0.357 | 0.053  | 0.430  | 0.671  |
|------------------------------|--------|--------|--------|--------|--------|
| DESIGN LEVELS ON KERB LIP    | 64.472 | 64.528 | 64.650 | 64.771 | 64.825 |
| EXISTING SURFACE ON KERB LIP | 65.163 | 64.885 | 64.597 | 64.341 | 64.155 |
| CHAINAGE                     | 0.000  | 4.104  | 8.207  | 12.311 | 16.415 |

LONGITUDINAL SECTION - RD2 RD1

SCALE HORIZONTAL 1:200  
VERTICAL 1:50



INTERSECTION DETAIL PLAN - ROAD 1/ROAD 2

SCALE 1:100

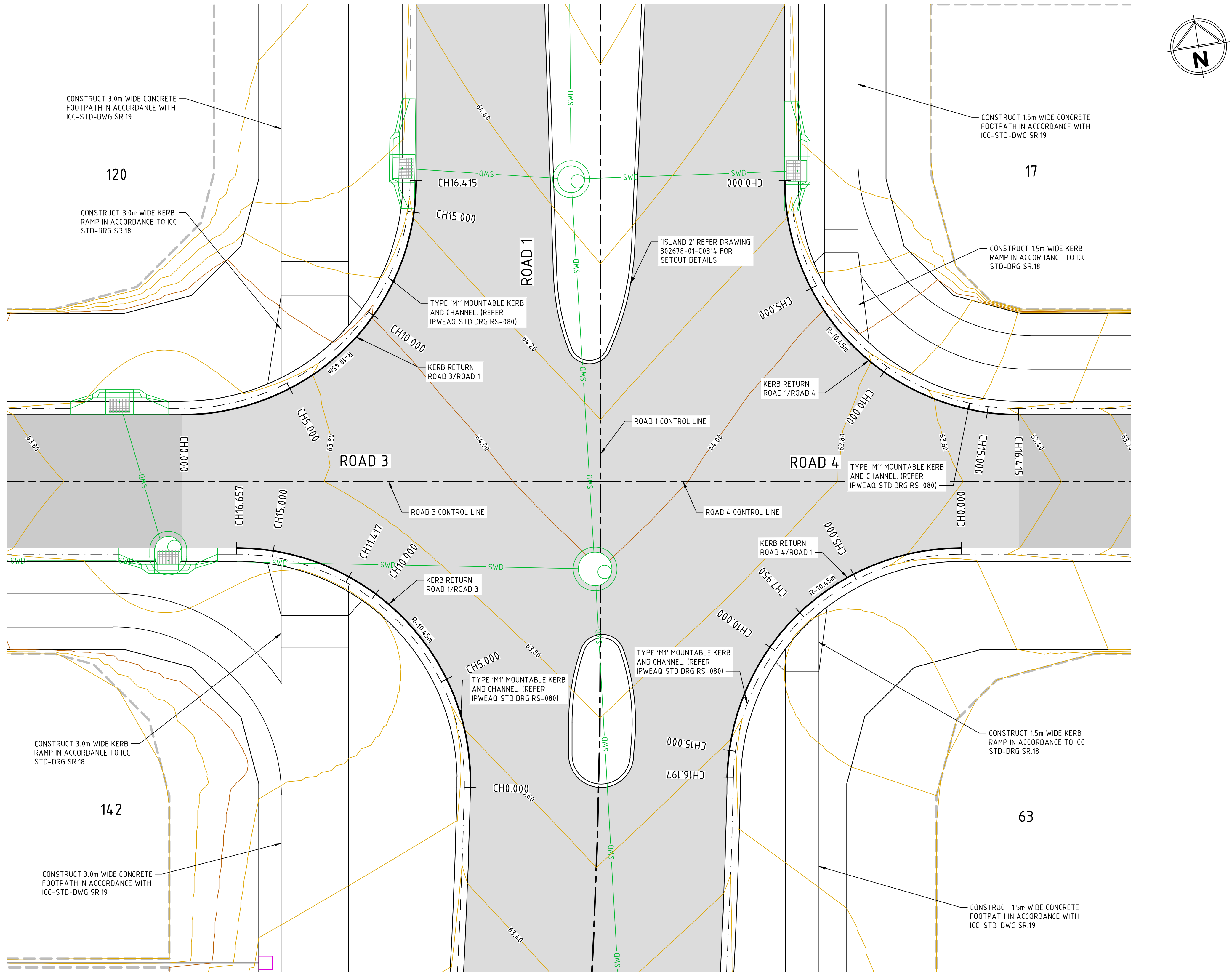
KERB RETURN - RD2 RD1 HORIZONTAL POINTS

| PT   | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING      | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
|------|----------|----------|-----------|--------|--------------|-------------|----------|--------------|
| IP 1 | 0.000    | 994.7499 | 37199.701 | 64.472 | 99°00'49.57" |             |          |              |
|      | 5.000    | 9952.435 | 37200.106 | 64.549 | 71°35'58.27" |             |          |              |
|      | 8.207    | 9957.820 | 37198.063 | 64.650 |              | R = -10.450 | 16.415   | 89°59'59.55" |
| IP 2 | 10.000   | 9956.630 | 37202.738 | 64.711 | 44°11'06.98" |             |          |              |
|      | 15.000   | 9959.142 | 37207.006 | 64.814 | 16°46'15.68" |             |          |              |
|      | 16.415   | 9959.457 | 37208.384 | 64.825 | 9°00'50.01"  |             |          |              |

KERB RETURN - RD1 RD2 HORIZONTAL POINTS

| PT   | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
|------|----------|----------|-----------|--------|---------------|-------------|----------|--------------|
| IP 1 | 0.000    | 9955.251 | 37181.866 | 64.691 | 9°00'50.01"   |             |          |              |
|      | 5.000    | 9954.846 | 37186.802 | 64.641 | 34°35'58.72"  |             |          |              |
|      | 8.207    | 9956.888 | 37192.187 | 64.583 |               | R = -10.450 | 16.415   | 90°00'00.45" |
| IP 2 | 10.000   | 9952.213 | 37190.997 | 64.548 | 314°11'07.42" |             |          |              |
|      | 15.000   | 994.7945 | 37193.509 | 64.482 | 286°46'16.13" |             |          |              |
|      | 16.415   | 9946.567 | 37193.824 | 64.472 | 279°00'49.51" |             |          |              |





INTERSECTION DETAIL PLAN - ROAD 1/ROAD 3/ROAD4  
SCALE 1:100

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

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

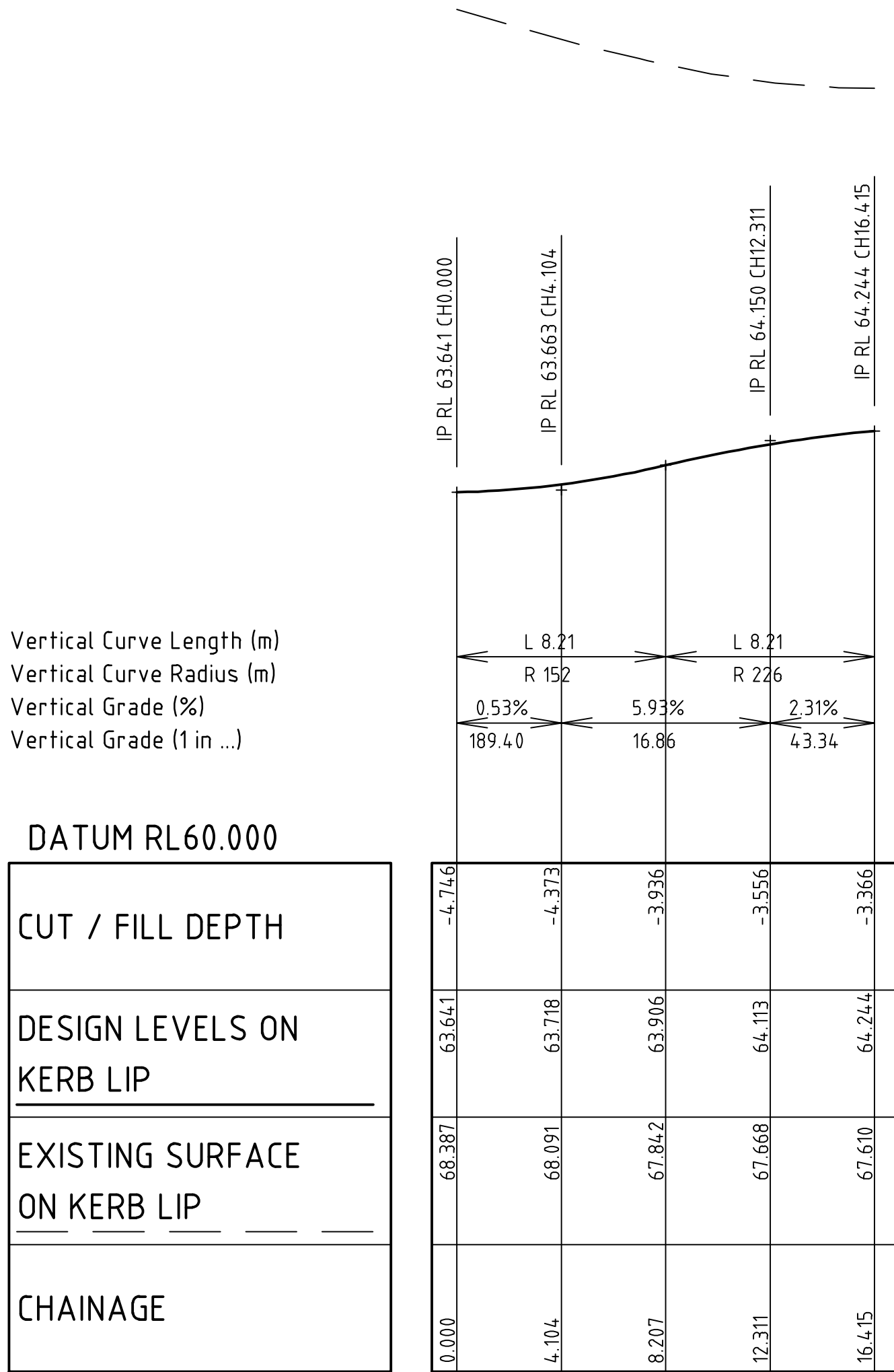
**AMORY AT RIPLEY**  
**STAGE 01**  
**ROAD 1/ROAD 3 AND 4 INTERSECTION DETAIL**  
**SHEET 1 OF 2**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0312

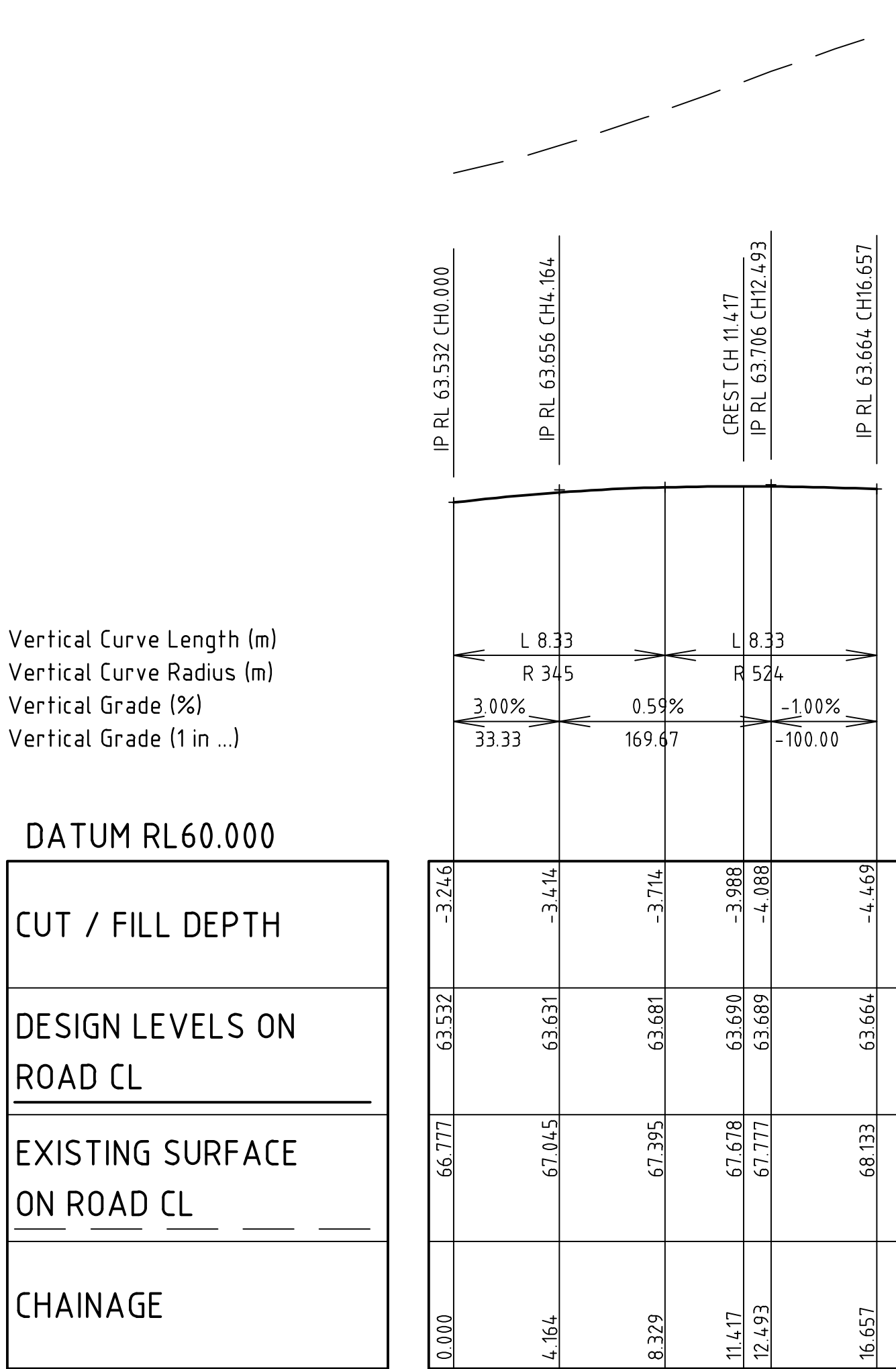
Rev  
2



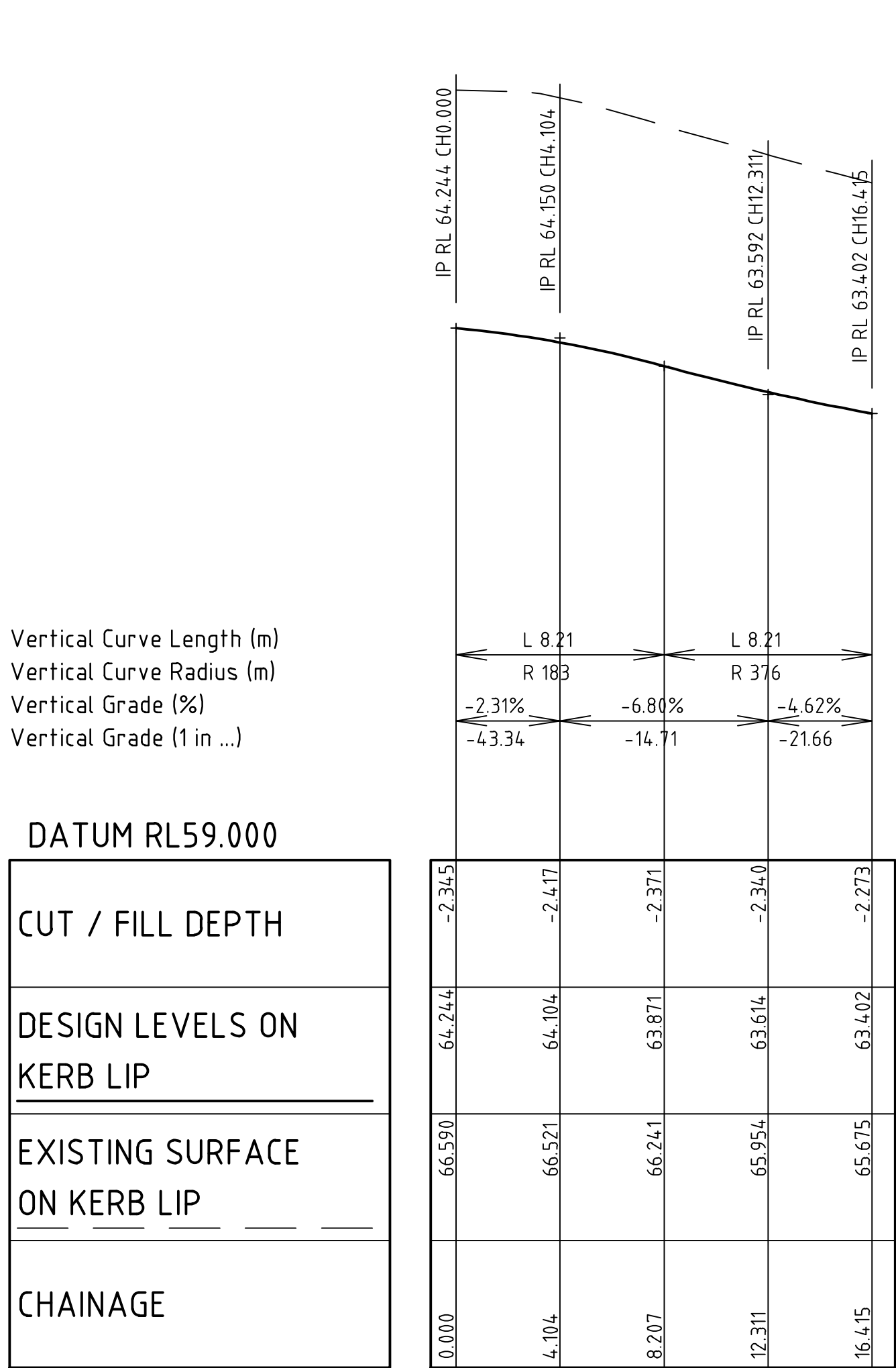
file name: 202678-01A-C0313.dwg layout name: C0313 plotted by: Charlene Chessells  
FILE DETAILS



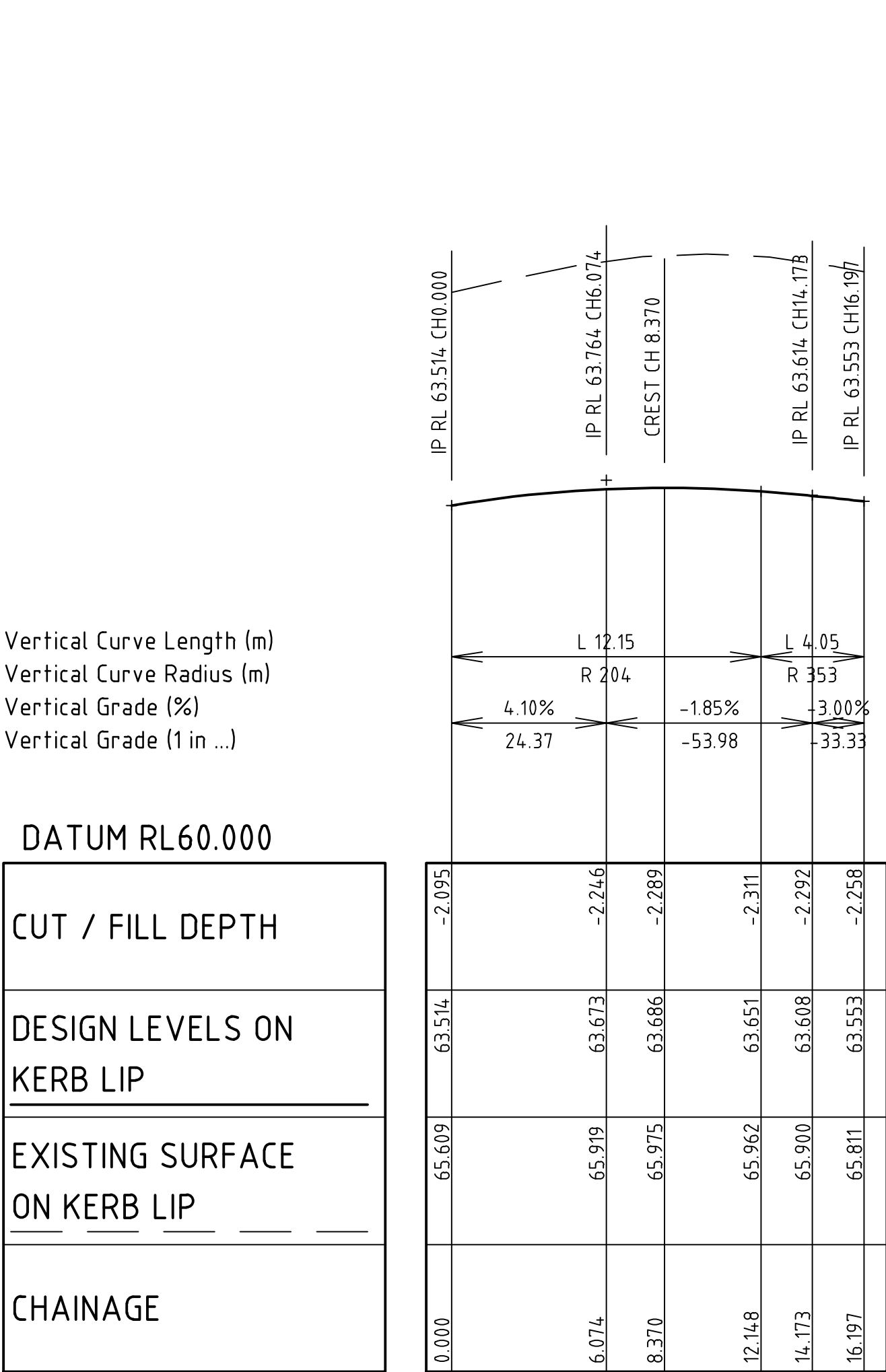
LONGITUDINAL SECTION - RD3 RD1  
SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD1 RD3  
SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD1 RD4  
SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50



LONGITUDINAL SECTION - RD4/RD1  
SCALE HORIZONTAL 1 : 200  
VERTICAL 1 : 50

| KERB RETURN - RD3 RD1 HORIZONTAL POINTS |          |          |           |        |              |             |          |              |
|-----------------------------------------|----------|----------|-----------|--------|--------------|-------------|----------|--------------|
| PT                                      | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING      | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
| IP 1                                    | 0.000    | 9935.435 | 37123.652 | 63.641 | 99°00'49.79" | R = -10.450 | 16.415   | 89°59'59.78" |
|                                         | 5.000    | 9940.371 | 37124.057 | 63.750 | 71°35'58.50" |             |          |              |
|                                         | 8.207    | 9945.756 | 37122.014 | 63.906 |              |             |          |              |
| IP 2                                    | 10.000   | 9944.566 | 37126.689 | 64.006 | 44°11'07.20" | R = -10.450 | 16.415   | 91°19'45.90" |
|                                         | 15.000   | 9947.078 | 37130.957 | 64.207 | 16°46'15.91" |             |          |              |
|                                         | 16.415   | 9947.394 | 37132.335 | 64.244 | 9°00'50.01"  |             |          |              |

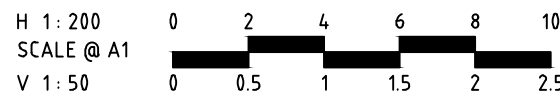
| KERB RETURN - RD1 RD3 HORIZONTAL POINTS |          |          |           |        |               |             |          |              |
|-----------------------------------------|----------|----------|-----------|--------|---------------|-------------|----------|--------------|
| PT                                      | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
| IP 1                                    | 0.000    | 9945.540 | 37105.198 | 63.532 | 10°20'35.69"  | R = -10.450 | 16.657   | 91°19'45.90" |
|                                         | 5.000    | 9945.249 | 37110.142 | 63.645 | 342°55'44.40" |             |          |              |
|                                         | 8.329    | 9947.460 | 37115.720 | 63.681 |               |             |          |              |
| IP 2                                    | 10.000   | 9942.715 | 37114.397 | 63.688 | 315°30'53.10" | R = -10.450 | 16.657   | 91°19'45.90" |
|                                         | 15.000   | 9938.506 | 37117.007 | 63.678 | 288°06'01.81" |             |          |              |
|                                         | 16.657   | 9936.897 | 37117.395 | 63.664 | 279°00'49.79" |             |          |              |

| KERB RETURN - RD1 RD4 HORIZONTAL POINTS |          |          |           |        |               |             |          |              |
|-----------------------------------------|----------|----------|-----------|--------|---------------|-------------|----------|--------------|
| PT                                      | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
| IP 1                                    | 0.000    | 9963.640 | 37129.758 | 64.244 | 189°00'50.01" | R = -10.450 | 16.415   | 90°00'00.14" |
|                                         | 5.000    | 9964.046 | 37124.822 | 64.061 | 161°35'58.72" |             |          |              |
|                                         | 8.207    | 9962.003 | 37119.437 | 63.871 |               |             |          |              |
| IP 2                                    | 10.000   | 9966.678 | 37120.627 | 63.753 | 134°11'07.42" | R = -10.450 | 16.415   | 88°48'23.92" |
|                                         | 15.000   | 9970.946 | 37118.115 | 63.470 | 106°46'16.13" |             |          |              |
|                                         | 16.415   | 9972.324 | 37117.800 | 63.402 | 99°00'49.87"  |             |          |              |

| KERB RETURN - RD4 RD1 HORIZONTAL POINTS |          |          |           |        |               |             |          |              |
|-----------------------------------------|----------|----------|-----------|--------|---------------|-------------|----------|--------------|
| PT                                      | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL  | A.LENGTH | DEFL.ANGLE   |
| IP 1                                    | 0.000    | 9968.855 | 37112.326 | 63.514 | 279°00'49.87" | R = -10.450 | 16.197   | 88°48'23.92" |
|                                         | 5.000    | 9963.919 | 37111.920 | 63.658 | 251°35'58.58" |             |          |              |
|                                         | 8.099    | 9958.747 | 37113.929 | 63.686 |               |             |          |              |
| IP 2                                    | 10.000   | 9959.724 | 37109.288 | 63.680 | 224°11'07.28" | R = -10.450 | 16.197   | 88°48'23.92" |
|                                         | 15.000   | 9957.212 | 37105.020 | 63.587 | 196°46'15.99" |             |          |              |
|                                         | 16.197   | 9956.933 | 37103.857 | 63.553 | 190°12'25.96" |             |          |              |

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

LONGITUDINAL SECTION



© 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

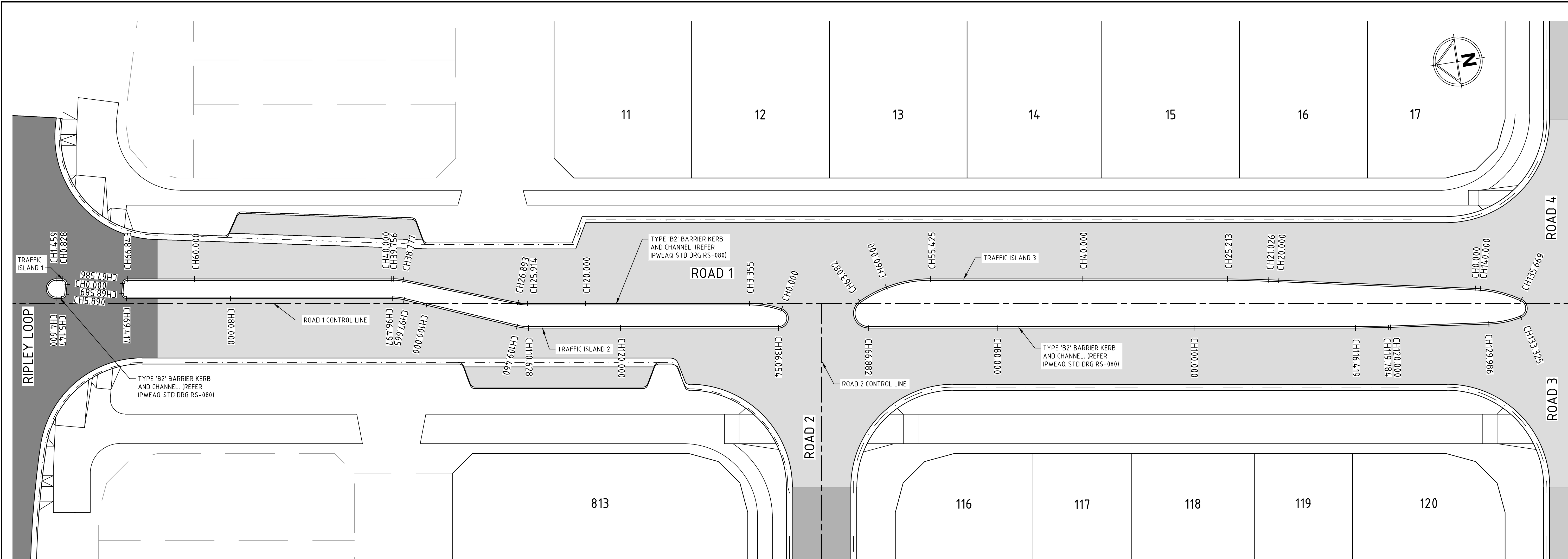
Designed  
T.MULLEN  
Authorised  
M. READMAN RPEQ 28295  
Checked  
K. HOWELLS  
Date  
DECEMBER 23

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

**CONSTRUCTION** Drg No  
320678-01-C0313

Rev  
2





TRAFFIC ISLAND 1, 2 & 3 DETAIL PLAN

SCALE 1:200

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

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

| ISLAND 3 SETOUT - HORIZONTAL POINTS |          |          |           |        |               |              |          |              |  |
|-------------------------------------|----------|----------|-----------|--------|---------------|--------------|----------|--------------|--|
| PT                                  | CHAINAGE | EASTING  | NORTHING  | HEIGHT | BEARING       | RAD/SPIRAL   | A.LENGTH | DEFL.ANGLE   |  |
| IP 1                                | 0.000    | 9956.579 | 37127.939 | 64.374 | 11°24'32.43"  | R = -100.000 | 4.188    | 2°23'57.66"  |  |
| TC                                  | 21.026   | 9960.739 | 37148.549 | 64.700 | 11°24'32.43"  |              |          |              |  |
| IP 2                                | 23.120   | 9961.153 | 37150.602 | 64.712 |               |              |          |              |  |
| CT                                  | 25.213   | 9961.481 | 37152.670 | 64.724 | 9°00'34.76"   | R = -12.500  | 7.657    | 35°05'48.49" |  |
| IP 3                                | 55.425   | 9966.212 | 37182.509 | 64.875 |               |              |          |              |  |
| IP 4                                | 59.253   | 9966.831 | 37186.413 | 64.912 |               |              |          |              |  |
| CC                                  | 63.082   | 9965.093 | 37189.963 | 64.979 | 333°55'01.58" | R = -1.500   | 1.900    | 72°34'58.89" |  |
| IP 5                                | 64.032   | 9964.609 | 37190.953 | 64.970 |               |              |          |              |  |
| CC                                  | 64.982   | 9963.520 | 37190.787 | 64.938 | 261°20'02.70" |              |          |              |  |
| IP 6                                | 65.932   | 9962.431 | 37190.621 | 64.910 |               | R = -1.500   | 1.900    | 72°34'58.89" |  |
| IP 7                                | 66.882   | 9962.263 | 37189.532 | 64.896 |               |              |          |              |  |
| TC                                  | 116.419  | 9954.506 | 37140.607 | 64.595 | 189°00'36.21" | R = -100.000 | 3.366    | 1°55'42.10"  |  |
| IP 8                                | 118.102  | 9954.242 | 37138.944 | 64.567 |               |              |          |              |  |
| CT                                  | 119.784  | 9954.035 | 37137.274 | 64.540 | 187°04'54.11" |              |          |              |  |
| TC                                  | 129.986  | 9952.777 | 37127.150 | 64.321 | 187°04'54.11" | R = -10.000  | 3.339    | 19°08'01.43" |  |
| IP 9                                | 131.656  | 9952.569 | 37125.478 | 64.282 |               |              |          |              |  |
| CC                                  | 133.325  | 9952.921 | 37123.830 | 64.248 | 167°56'52.68" |              |          |              |  |
| IP 10                               | 133.911  | 9953.060 | 37123.181 | 64.249 |               | R = -1.000   | 1.172    | 67°08'48.68" |  |
| CC                                  | 134.497  | 9953.712 | 37123.056 | 64.260 | 100°48'04.00" |              |          |              |  |
| IP 11                               | 135.083  | 9954.364 | 37122.932 | 64.277 |               |              |          |              |  |
| CC                                  | 135.669  | 9954.731 | 37123.484 | 64.278 | 33°39'15.32"  | R = -12.500  | 4.853    | 22°14'42.89" |  |
| IP 12                               | 138.096  | 9956.093 | 37125.530 | 64.321 |               |              |          |              |  |
| IP 13                               | 140.522  | 9956.579 | 37127.939 | 64.374 | 11°24'32.43"  |              |          |              |  |

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

H 1200  
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

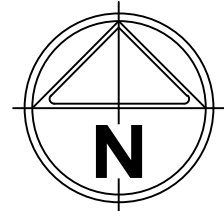
AMORY AT RIPLEY  
STAGE 01  
TRAFFIC ISLAND SETOUT DETAILS

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0314

Rev  
2





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

| LINEMARKING LEGEND: |                                    |                                                                                 |
|---------------------|------------------------------------|---------------------------------------------------------------------------------|
| SYMBOL:             | DESCRIPTION:                       | REMARK:                                                                         |
|                     | DIAGONAL AND CHEVRON MARKINGS      | AS1742.2 CLAUSE 5.6                                                             |
|                     | SINGLE CONTINUOUS LANE LINE        | CONTINUOUS LINE, 100mm WIDE. AS1742.2 CLAUSE 5.3                                |
|                     | CONTINUITY LINE                    | 1m LINE, 3m GAP, 150mm WIDE. AS1742.2 CLAUSE 5.3                                |
|                     | STOP LINE                          | CONTINUOUS LINE, 450mm WIDE. AS1742.2 CLAUSE 5.5 & AS1742.14 CLAUSE 6.2.1       |
|                     | TURN LINE                          | 600mm LINE, 600mm GAP, 100mm WIDE. AS1742.2 CLAUSE 5.3 & AS1742.14 CLAUSE 6.2.4 |
|                     | PEDESTRIAN GUIDE LINE              | 1m LINE 300mm GAP, 150mm WIDE. AS1742.2 CLAUSE 5.5 & AS1742.14 CLAUSE 6.2.3     |
|                     | GIVE WAY LINE                      | 600mm LINE, 600mm GAP, 450mm WIDE. AS1742.2 CLAUSE 5.5                          |
|                     | INTERSECTION ARROW                 | AS1742.2 CLAUSE 5.7 & AS1742.14 CLAUSE 6.2.2                                    |
|                     | LINEMARKING TO BE REMOVED          |                                                                                 |
|                     | BICYCLE LANE GREEN PAINTED SURFACE | SECTION 6.6-1, PART 10, TRUM MANUAL VOL. 1. APPROVED COLOUR EMERALD GREEN G13   |
|                     | BICYCLE SYMBOL (ROAD)              | AS1742.2 CLAUSE 5.8 FIGURE 5.4.1                                                |
|                     | BICYCLE SYMBOLS (PATH)             | AS1742.2 CLAUSE 5.8 FIGURE 5.4.4                                                |
|                     | SINGLE BROKEN DIVIDING LINE - PATH | 1m LINE, 3m GAP, 100mm WIDE. AS1742.2 CLAUSE 5.3                                |

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

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 01  
SIGNAGE & LINEMARKING LAYOUT PLAN**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0400

Rev  
2



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 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"

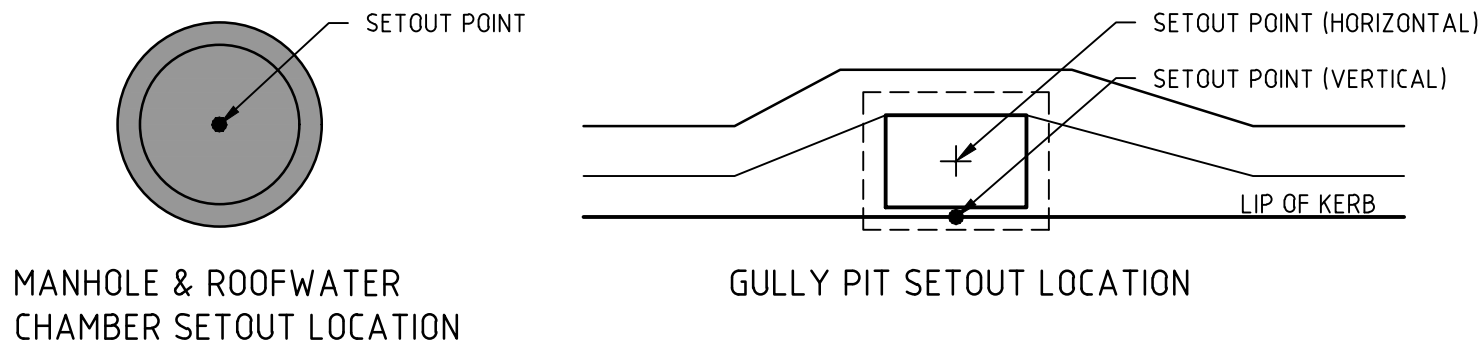
- 2 = RCP CLASS '2'

- 3 = RCP CLASS '3'

- 4 = RCP CLASS '4'

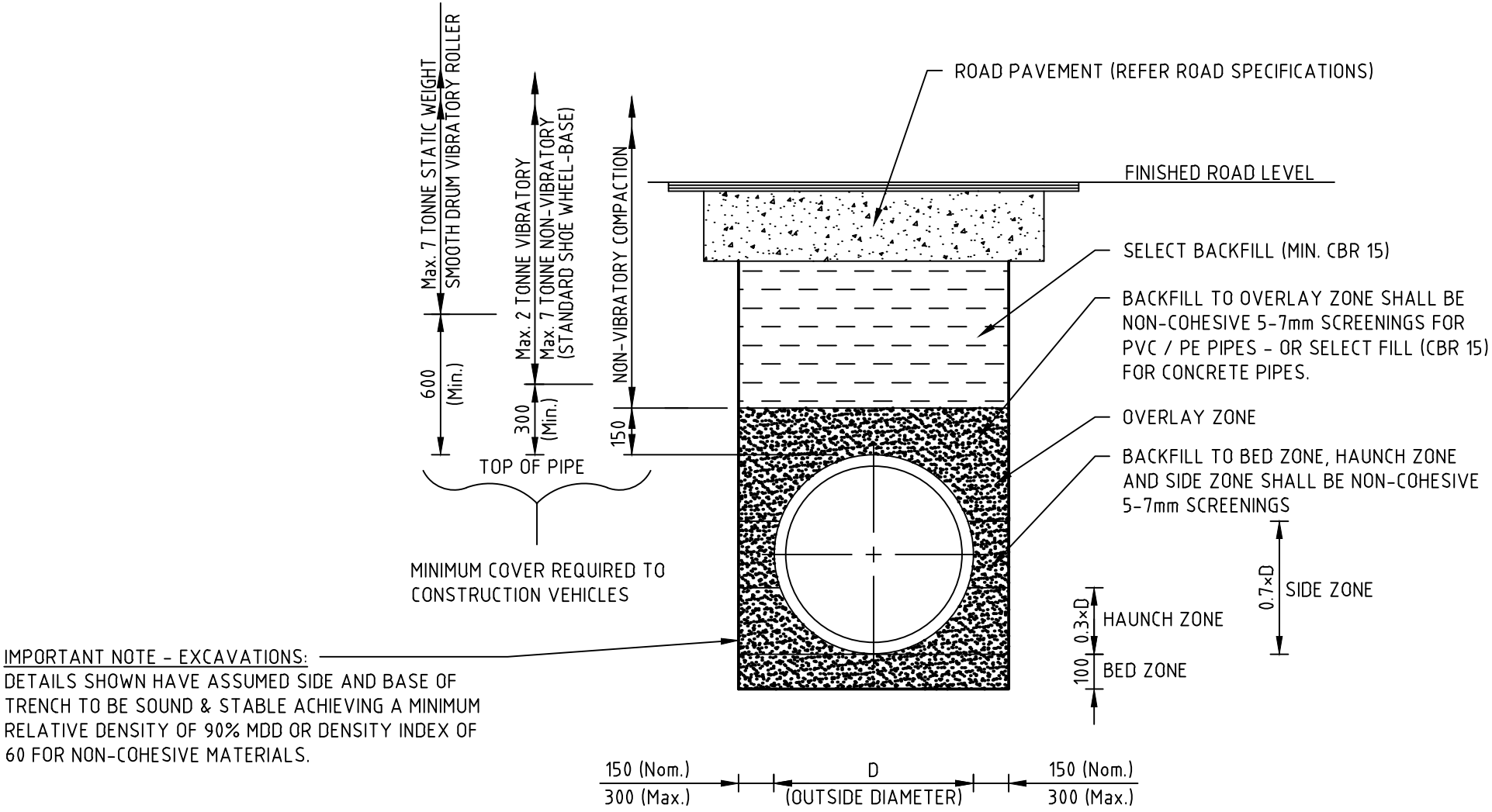
ROOFWATER CONNCTION NOTE:

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



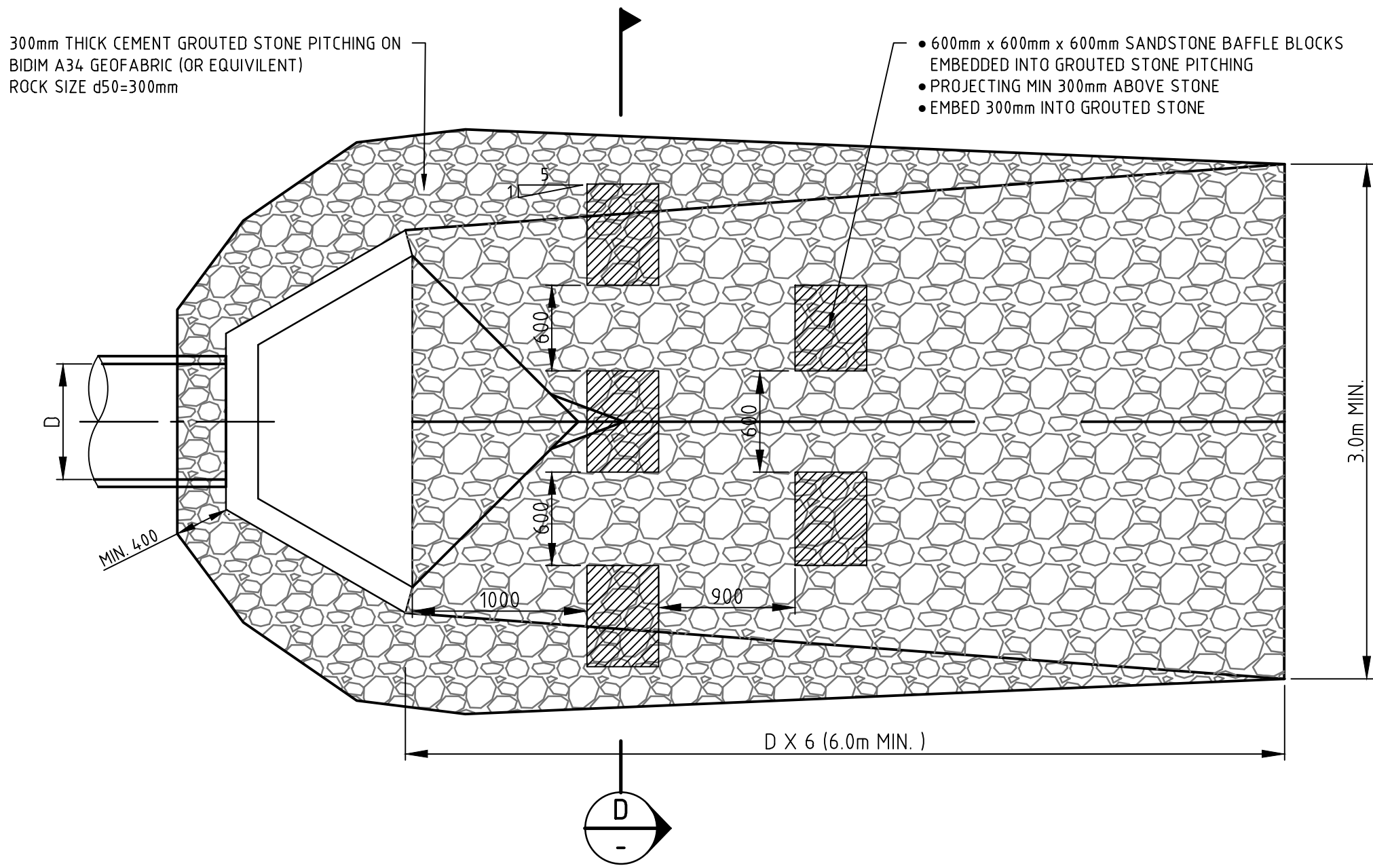
SETOUT POINTS LOCATION DETAIL

N.T.S



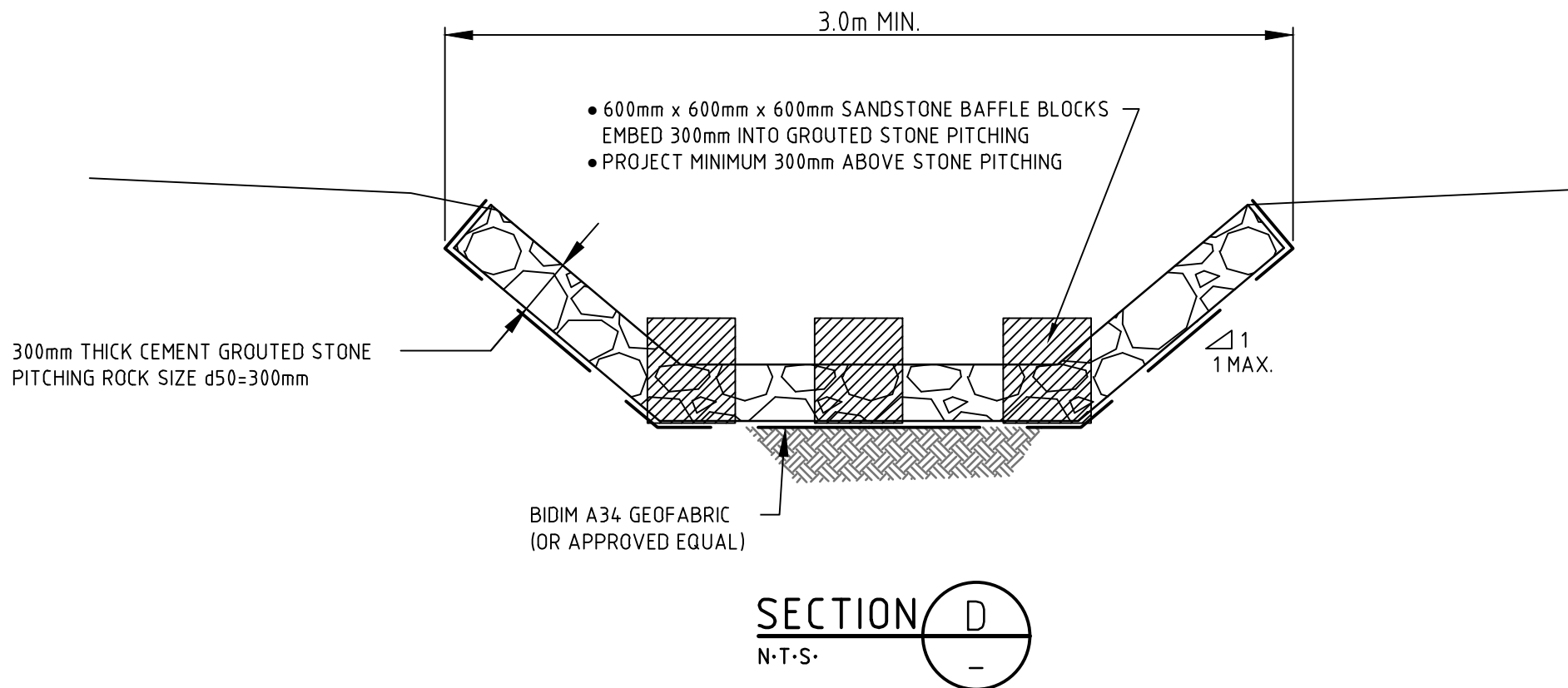
TYPICAL STORMWATER TRENCH DETAIL  
TYPE "HS2" SUPPORT - SINGLE BARREL

N.T.S



STORMWATER OUTLET SCOUR PROTECTION DETAIL - TYPICAL

N.T.S



file name: 320678-01AC0500.dwg layout name: C0500 plotted by: Charlene Chessells FILE DETAILS

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



© 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



AMORY  
AT RIPLEY

Designed  
T.MULLEN

Checked  
K. HOWELLS

Authorised  
M. READMAN RPEQ 28295

Date  
DECEMBER 23

AMORY AT RIPLEY  
STAGE 01  
STORMWATER DRAINAGE STANDARD NOTES & DETAILS

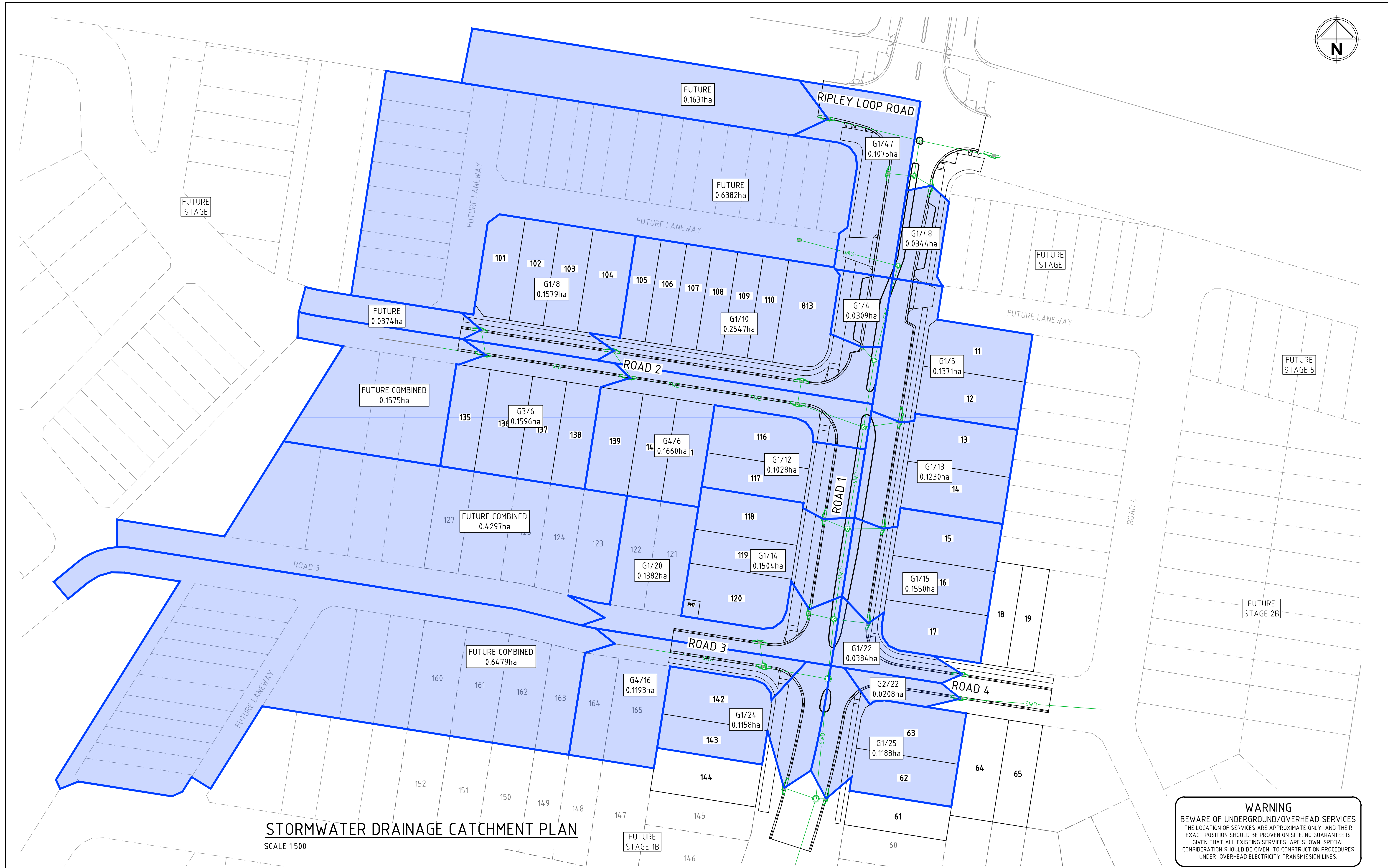
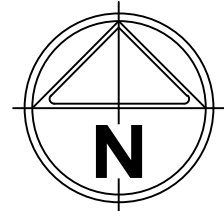
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION**

Drg No  
320678-01-C0500

Rev  
2



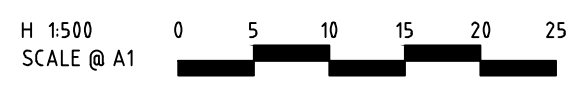


# STORMWATER DRAINAGE CATCHMENT PLAN

SCALE 1:500

**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.

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



© 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 01  
STORMWATER DRAINAGE CATCHMENT PLAN**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01-C0501



file:page\_320678-01AC0502.dwg layout name: C0502, plotted by: Charlene Chessells  
FILE DETAILS

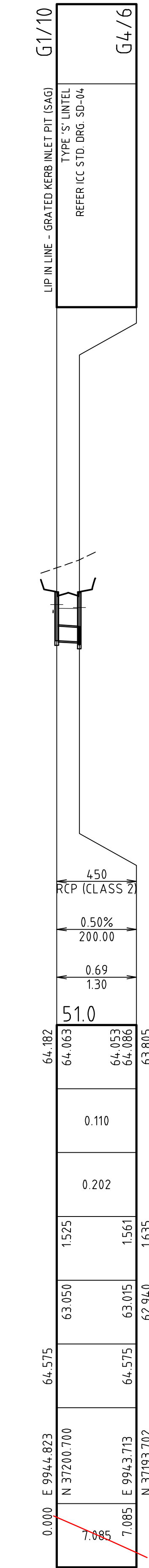
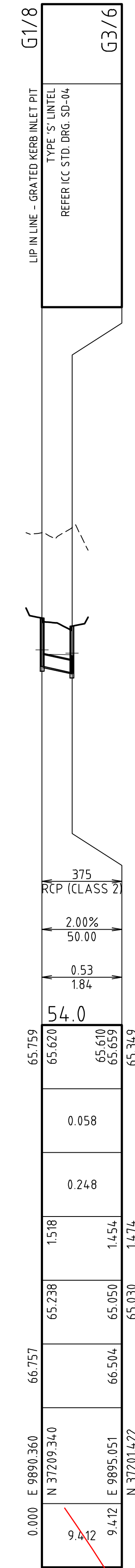
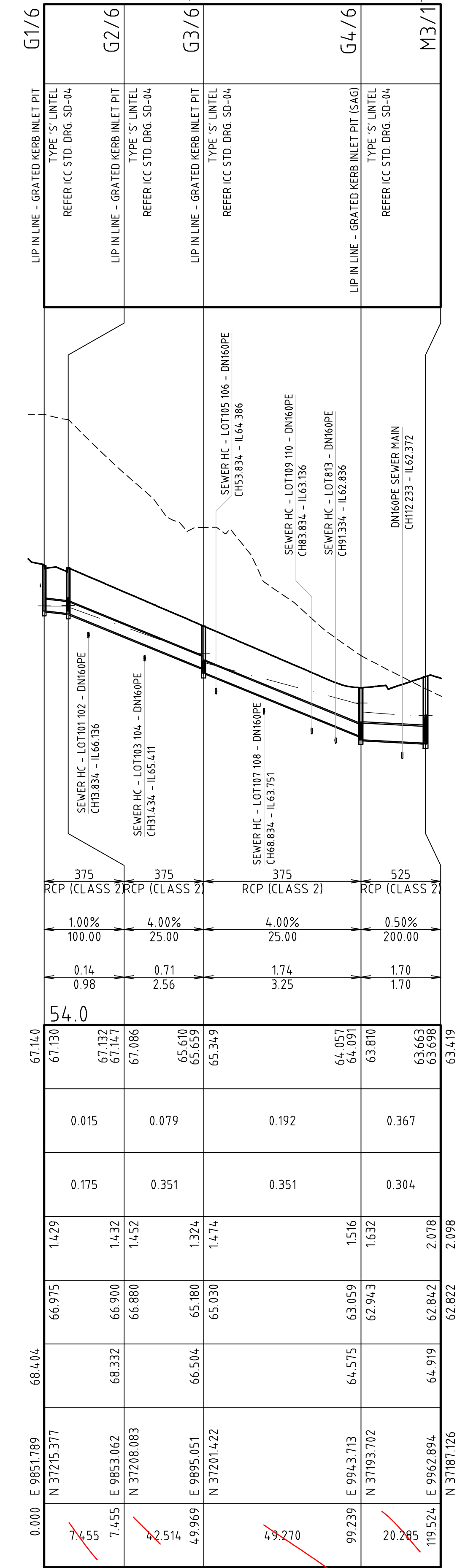
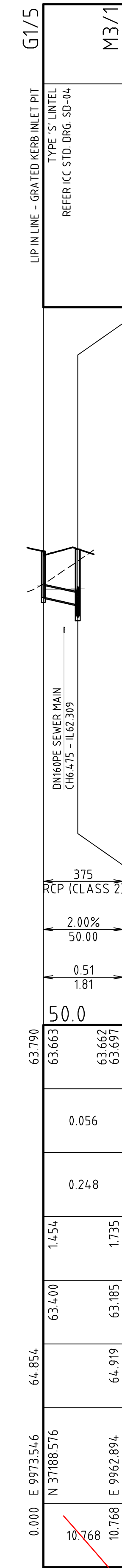
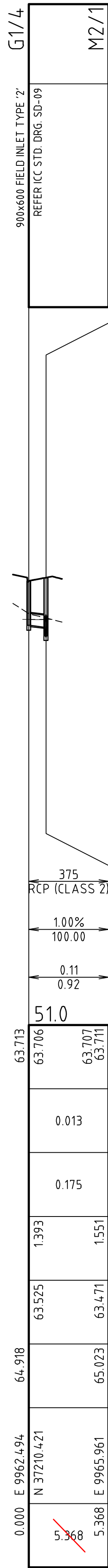
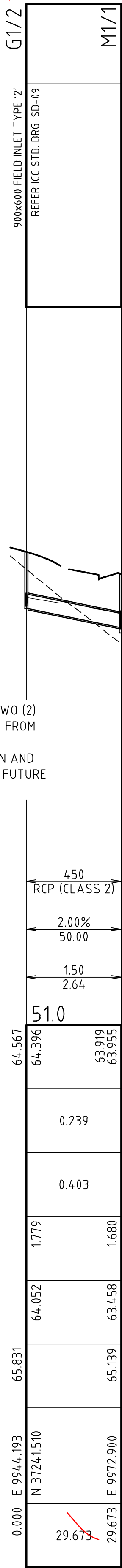
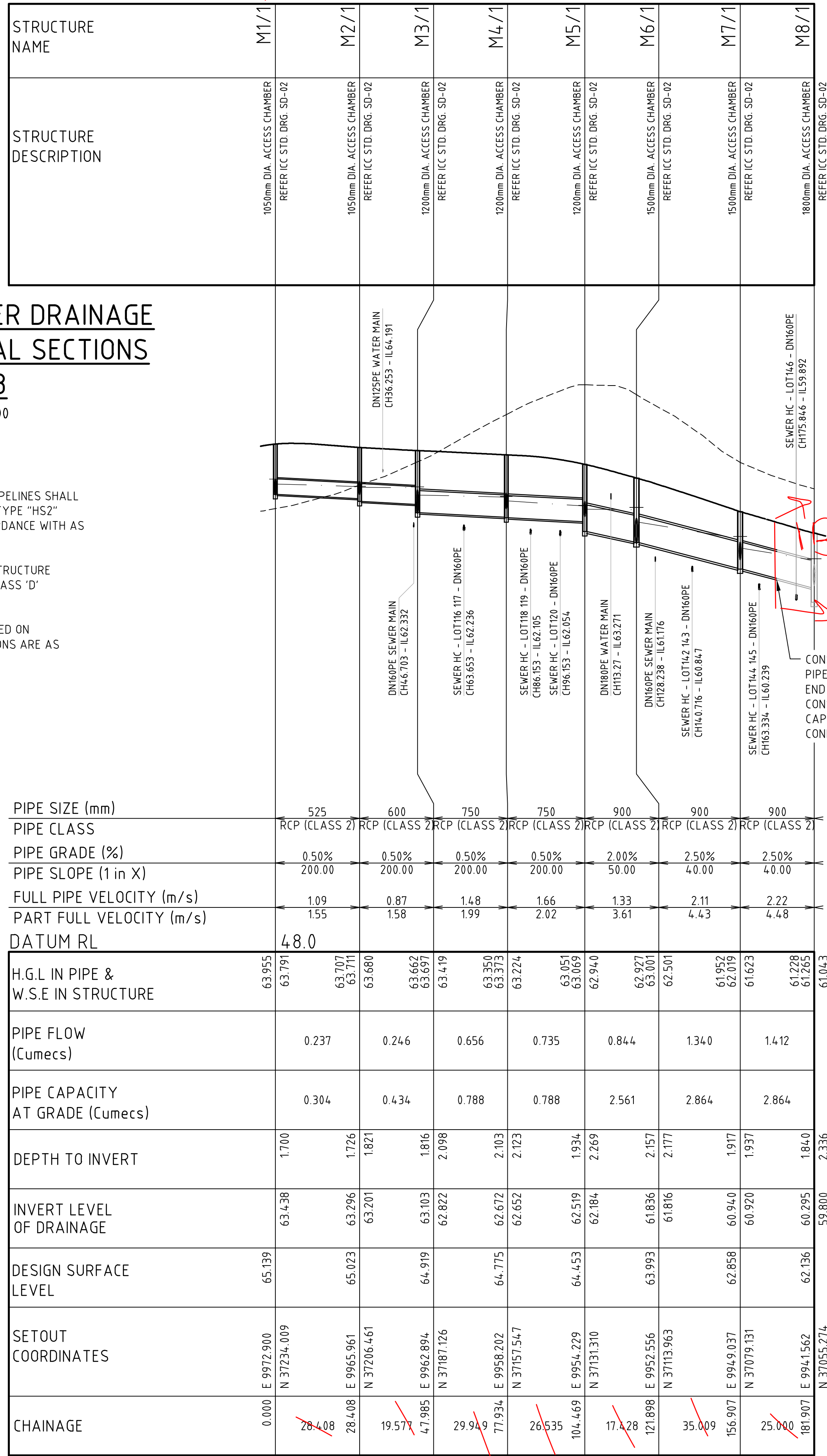
## STORMWATER DRAINAGE LONGITUDINAL SECTIONS

### SHEET 1 OF 3

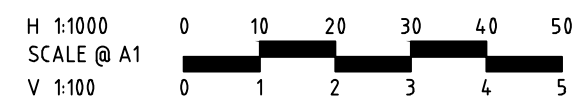
SCALE HORIZONTAL 1:1000  
VERTICAL 1:100

#### 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'



| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |



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

**AMORY AT RIPLEY  
STAGE 01  
STORMWATER DRAINAGE LONGITUDINAL SECTIONS  
SHEET 1 OF 3**  
IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No **320678-01-C0502** Rev **2**



file name: 320678-01AC0503.dwg layout name: C0503 plotted by: Charlene Chessells  
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'

CONSTRUCT TWO (2) PIPE LENGTHS FROM END OF ROAD CONSTRUCTION AND CAP PIPE FOR FUTURE CONNECTION

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| PIPE SIZE (mm)                      | 375                                            |
| PIPE CLASS                          | RCP (CLASS 2)                                  |
| PIPE GRADE (%)                      | 3.94%                                          |
| PIPE SLOPE (1 in X)                 | 25.35                                          |
| FULL PIPE VELOCITY (m/s)            | 0.25                                           |
| PART FULL VELOCITY (m/s)            | 1.88                                           |
| DATUM RL                            | 58.0                                           |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 68.390<br>68.368<br>67.432<br>67.447<br>67.086 |
| PIPE FLOW (Cumecs)                  | 0.027                                          |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.348                                          |
| DEPTH TO INVERT                     | 1.426<br>1.332<br>1.452                        |
| INVERT LEVEL OF DRAINAGE            | 68.250<br>67.000<br>66.880                     |
| DESIGN SURFACE LEVEL                | 69.676<br>68.332                               |
| SETOUT COORDINATES                  | 0.000 E 9821.761<br>N 37213.048<br>31.693<br>A |
| CHAINAGE                            | 0.000<br>31.693<br>N 37208.083                 |

LINE

FUTURE 1

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/F1                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 375                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 2.00%                                                                              |
| PIPE SLOPE (1 in X)                 | 50.00                                                                              |
| FULL PIPE VELOCITY (m/s)            | 0.38                                                                               |
| PART FULL VELOCITY (m/s)            | 1.67                                                                               |
| DATUM RL                            | 51.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 63.444<br>63.373<br>63.350<br>63.373<br>63.224                                     |
| PIPE FLOW (Cumecs)                  | 0.042                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.248                                                                              |
| DEPTH TO INVERT                     | 1.472<br>1.700<br>2.123                                                            |
| INVERT LEVEL OF DRAINAGE            | 63.225<br>63.075<br>62.652                                                         |
| DESIGN SURFACE LEVEL                | 64.697<br>64.775                                                                   |
| SETOUT COORDINATES                  | 0.000 E 9951.273<br>N 37160.413<br>7.510<br>A                                      |
| CHAINAGE                            | 0.000<br>7.510<br>N 37157.547                                                      |

12

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/13                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 375                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 2.00%                                                                              |
| PIPE SLOPE (1 in X)                 | 50.00                                                                              |
| FULL PIPE VELOCITY (m/s)            | 0.45                                                                               |
| PART FULL VELOCITY (m/s)            | 1.76                                                                               |
| DATUM RL                            | 51.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 63.464<br>63.362<br>63.350<br>63.373<br>63.224                                     |
| PIPE FLOW (Cumecs)                  | 0.050                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.248                                                                              |
| DEPTH TO INVERT                     | 1.497<br>1.784<br>2.123                                                            |
| INVERT LEVEL OF DRAINAGE            | 63.200<br>62.991<br>62.652                                                         |
| DESIGN SURFACE LEVEL                | 64.697<br>64.775                                                                   |
| SETOUT COORDINATES                  | 0.000 E 9968.641<br>N 37157.659<br>10.446<br>A                                     |
| CHAINAGE                            | 0.000<br>10.446<br>N 37157.547                                                     |

13

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/14                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 375                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 2.04%                                                                              |
| PIPE SLOPE (1 in X)                 | 49.09                                                                              |
| FULL PIPE VELOCITY (m/s)            | 0.56                                                                               |
| PART FULL VELOCITY (m/s)            | 1.86                                                                               |
| DATUM RL                            | 51.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 63.283<br>63.130<br>63.048<br>63.069<br>62.940                                     |
| PIPE FLOW (Cumecs)                  | 0.061                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.248                                                                              |
| DEPTH TO INVERT                     | 1.423<br>1.657<br>2.269                                                            |
| INVERT LEVEL OF DRAINAGE            | 62.950<br>62.796<br>62.184                                                         |
| DESIGN SURFACE LEVEL                | 64.373<br>64.453                                                                   |
| SETOUT COORDINATES                  | 0.000 E 9946.867<br>N 37132.978<br>7.550<br>A                                      |
| CHAINAGE                            | 0.000<br>7.550<br>N 37131.310                                                      |

14

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/15                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 375                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 2.00%                                                                              |
| PIPE SLOPE (1 in X)                 | 50.00                                                                              |
| FULL PIPE VELOCITY (m/s)            | 0.57                                                                               |
| PART FULL VELOCITY (m/s)            | 1.88                                                                               |
| DATUM RL                            | 51.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 63.270<br>63.108<br>63.048<br>63.069<br>62.940                                     |
| PIPE FLOW (Cumecs)                  | 0.063                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.248                                                                              |
| DEPTH TO INVERT                     | 1.445<br>1.730<br>2.269                                                            |
| INVERT LEVEL OF DRAINAGE            | 62.925<br>62.723<br>62.184                                                         |
| DESIGN SURFACE LEVEL                | 64.370<br>64.453                                                                   |
| SETOUT COORDINATES                  | 0.000 E 9964.270<br>N 37130.106<br>10.113<br>A                                     |
| CHAINAGE                            | 0.000<br>10.113<br>N 37131.310                                                     |

15

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G3/16                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 450                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 5.00%                                                                              |
| PIPE SLOPE (1 in X)                 | 20.00                                                                              |
| FULL PIPE VELOCITY (m/s)            | 2.49                                                                               |
| PART FULL VELOCITY (m/s)            | 4.22                                                                               |
| DATUM RL                            | 55.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 65.175<br>64.710<br>63.034<br>63.046<br>62.968<br>62.927<br>63.001<br>62.501       |
| PIPE FLOW (Cumecs)                  | 0.396                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.638                                                                              |
| DEPTH TO INVERT                     | 1.630<br>1.647<br>1.727<br>2.157<br>2.177                                          |
| INVERT LEVEL OF DRAINAGE            | 64.291<br>62.107<br>62.027<br>61.836<br>61.816                                     |
| DESIGN SURFACE LEVEL                | 65.922<br>63.754                                                                   |
| SETOUT COORDINATES                  | 54.560 E 9890.582<br>N 37124.168<br>43.679<br>A                                    |
| CHAINAGE                            | 54.560<br>98.239<br>19.132<br>117.371<br>N 37113.963                               |

16

|                                     |                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/20                                                                                     |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT (ISAG)<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 450                                                                                       |
| PIPE CLASS                          | RCP (CLASS 2)                                                                             |
| PIPE GRADE (%)                      | 1.00%                                                                                     |
| PIPE SLOPE (1 in X)                 | 100.00                                                                                    |
| FULL PIPE VELOCITY (m/s)            | 0.45                                                                                      |
| PART FULL VELOCITY (m/s)            | 1.49                                                                                      |
| DATUM RL                            | 52.0                                                                                      |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 63.111<br>63.037<br>63.033<br>63.045<br>62.966                                            |
| PIPE FLOW (Cumecs)                  | 0.071                                                                                     |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.285                                                                                     |
| DEPTH TO INVERT                     | 1.539<br>1.598<br>1.733                                                                   |
| INVERT LEVEL OF DRAINAGE            | 62.230<br>62.156<br>62.021                                                                |
| DESIGN SURFACE LEVEL                | 63.769<br>63.754                                                                          |
| SETOUT COORDINATES                  | 0.000 E 9932.763<br>N 37124.650<br>74.28<br>A                                             |
| CHAINAGE                            | 0.000<br>74.28<br>N 37117.323                                                             |

20

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/24                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 450                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 1.00%                                                                              |
| PIPE SLOPE (1 in X)                 | 100.00                                                                             |
| FULL PIPE VELOCITY (m/s)            | 0.30                                                                               |
| PART FULL VELOCITY (m/s)            | 1.33                                                                               |
| DATUM RL                            | 50.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 61.999<br>61.955<br>61.952<br>62.019<br>61.623                                     |
| PIPE FLOW (Cumecs)                  | 0.047                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.285                                                                              |
| DEPTH TO INVERT                     | 1.547<br>1.580<br>1.937                                                            |
| INVERT LEVEL OF DRAINAGE            | 61.375<br>61.277<br>60.920                                                         |
| DESIGN SURFACE LEVEL                | 62.922<br>62.858                                                                   |
| SETOUT COORDINATES                  | 0.000 E 9939.780<br>N 37082.238<br>9.765<br>A                                      |
| CHAINAGE                            | 0.000<br>9.765<br>N 37079.131                                                      |

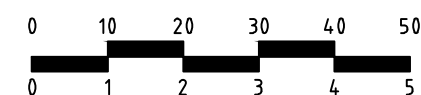
24

|                                     |                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------|
| STRUCTURE NAME                      | G1/25                                                                              |
| STRUCTURE DESCRIPTION               | LIP IN LINE - GRATED KERB INLET PIT<br>TYPE 'S' UNTEL<br>REFER ICC STD. DRG. SD-04 |
| PIPE SIZE (mm)                      | 450                                                                                |
| PIPE CLASS                          | RCP (CLASS 2)                                                                      |
| PIPE GRADE (%)                      | 2.00%                                                                              |
| PIPE SLOPE (1 in X)                 | 50.01                                                                              |
| FULL PIPE VELOCITY (m/s)            | 0.30                                                                               |
| PART FULL VELOCITY (m/s)            | 1.71                                                                               |
| DATUM RL                            | 49.0                                                                               |
| H.G.L. IN PIPE & W.S.E IN STRUCTURE | 61.999<br>61.953<br>61.952<br>62.019<br>61.623                                     |
| PIPE FLOW (Cumecs)                  | 0.048                                                                              |
| PIPE CAPACITY AT GRADE (Cumecs)     | 0.403                                                                              |
| DEPTH TO INVERT                     | 1.526<br>1.517<br>1.937                                                            |
| INVERT LEVEL OF DRAINAGE            | 61.400<br>61.341<br>60.920                                                         |
| DESIGN SURFACE LEVEL                | 62.926<br>62.858                                                                   |
| SETOUT COORDINATES                  | 0.000 E 9951.994<br>N 37079.135<br>2.974<br>A                                      |
| CHAINAGE                            | 0.000<br>2.974<br>N 37079.131                                                      |

25

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

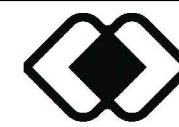
H 1:1000  
SCALE @ A1  
V 1:100



© 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

A T R I P L E Y

Designed  
T.MULLEN

Authorised  
M. READMAN RPEQ 28295

Checked  
K. HOWELLS

Date  
DECEMBER 23

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

**CONSTRUCTION** Drg No  
**320678-01-C0503**

Rev  
**2**



file name: 320678-01AC0504.dwg layout name: C0504, plotted by: Charlene Chessells  
FILE DETAILS

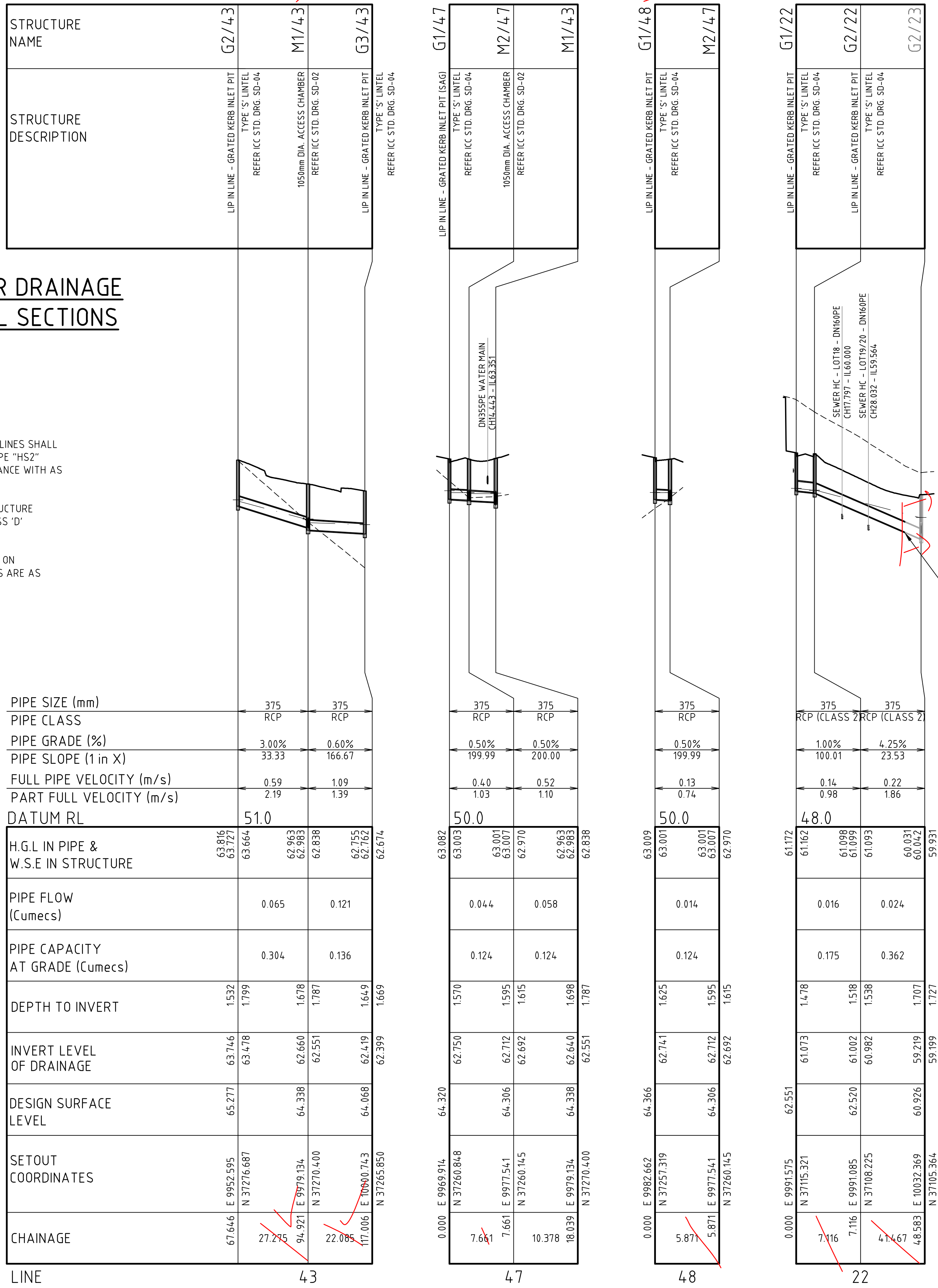
## STORMWATER DRAINAGE LONGITUDINAL SECTIONS

### SHEET 3 OF 3

SCALE HORIZONTAL 1:1000  
VERTICAL 1:100

#### NOTES:

- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;
  - U = uPVC CLASS "SN8"
  - 2 = RCP CLASS '2'
  - 3 = RCP CLASS '3'
  - 4 = RCP CLASS '4'



LINE

43

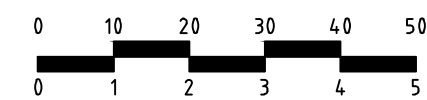
47

48

22

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

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

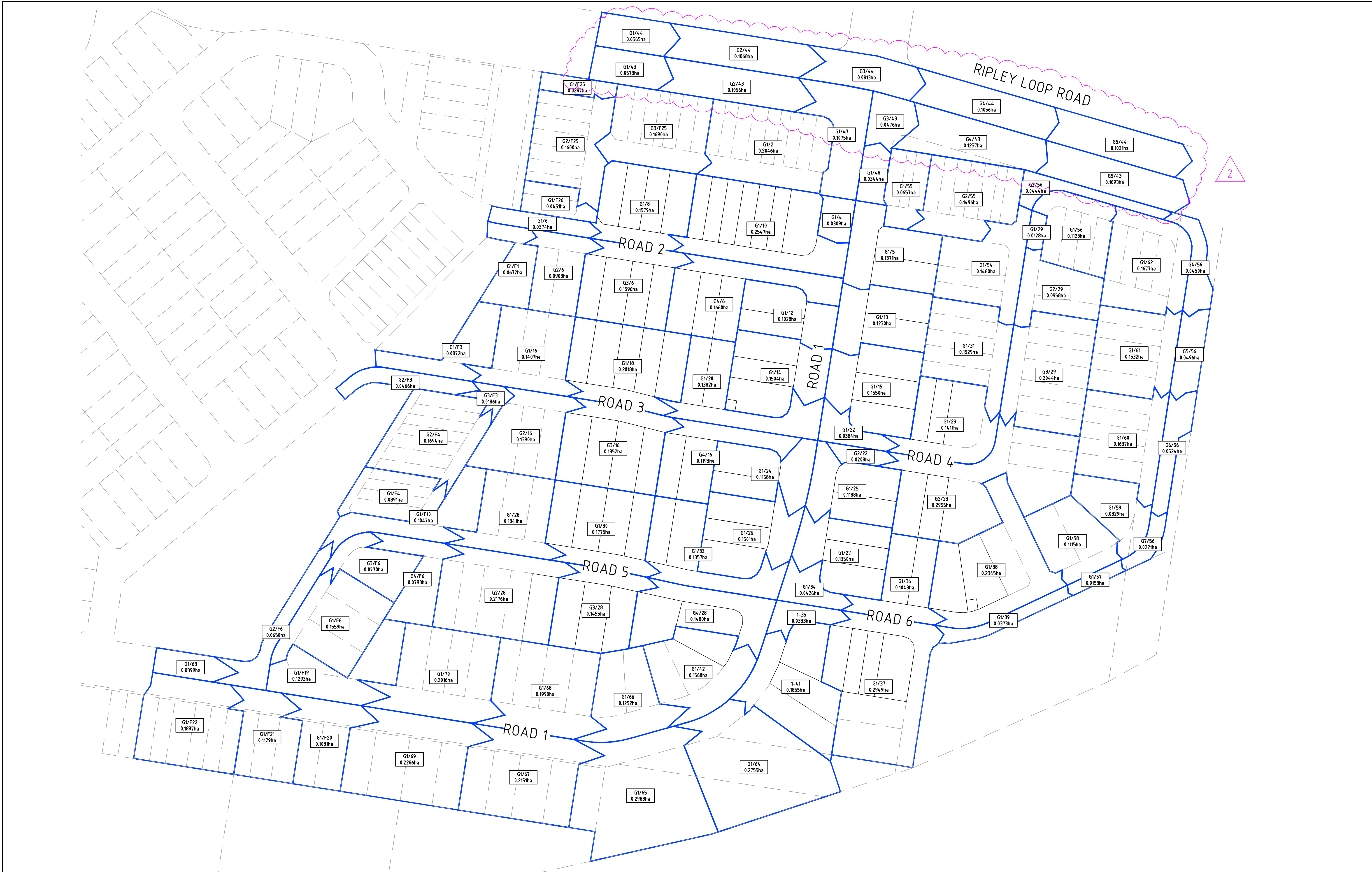
|                                     |                       |
|-------------------------------------|-----------------------|
| Designed<br>T.MULLEN                | Checked<br>K. HOWELLS |
| Authorised<br>M. READMAN RPEQ 28295 | Date<br>DECEMBER 23   |

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

**CONSTRUCTION** Drg No 320678-01-C0504 Rev 2

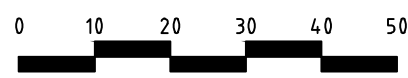


file name: 320678-01AC0505.dwg layout name: C0505 plotted by: Charlene Chessells



| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |

H 1:1000  
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 01  
BASIN 1 CATCHMENT - OVERALL CATCHMENT PLAN**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

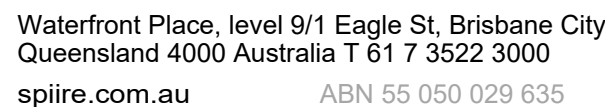
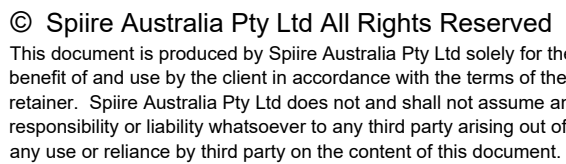
**CONSTRUCTION** Drg No  
320678-01-C0505

Rev  
2



File name 320678-01AC0506.dwg layout name C0506 plotted by Charlene Chessells  
on 05/05/2016 at 10:05:11 AM

H 1:1000  
SCALE @ A1

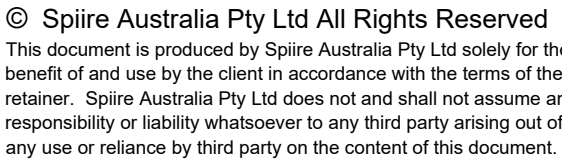


## CONSTRUCTION



File name 320678-01AC0507.dwg layout name C0507 plotted by Charlene Chessells

H 1:1000  
SCALE @ A1



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



**CONSTRUCTION** Drg No  
**320678-01-C0507**



file name: 201678-01AC0508.dwg layout name: C0508 plotted by: Charlene Chessells

| DESIGN ID | STRUCTURE No. | LOCATION | SUB-CATCHMENTS CONTRIBUTING | SUB-CATCHMENT RUNOFF |     |     |    |    |    |    | INLET DESIGN          |                     |                  |            |    |    |    |    |   |     | DRAIN DESIGN |    |    |    |    |   |   |                            |   |      |                                     |                     |                                          |      |    |    |    |    |    | PART FULL |    |               |                    |               |     |                       |          |                             |   | DESIGN LEVELS |    |    |     |    |     |    |    |    |    |    |    |   |   |    |     |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------|---------------|----------|-----------------------------|----------------------|-----|-----|----|----|----|----|-----------------------|---------------------|------------------|------------|----|----|----|----|---|-----|--------------|----|----|----|----|---|---|----------------------------|---|------|-------------------------------------|---------------------|------------------------------------------|------|----|----|----|----|----|-----------|----|---------------|--------------------|---------------|-----|-----------------------|----------|-----------------------------|---|---------------|----|----|-----|----|-----|----|----|----|----|----|----|---|---|----|-----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|           |               |          |                             | Tc                   | I   | C10 | C  | A  | Cx | Q  | FLOW IN (L/s) (IPASS) | ROAD GRADE AT INLET | MINOR FLOW WIDTH | INLET TYPE | Qg | Qb | dv | tc | I | +CA | Q1           | Q2 | Q3 | Q4 | Qp | L | S | PRE-BOX DIMENSIONS (GLASS) | V | Qcap | FLOW CAPACITY (PIPE GRADE VELOCITY) | STRUCTURE CHART No. | STRUCTURE RATES FOR N-VALUE CALCULATIONS | V2g2 | Ku | hu | Kw | hw | Sf | If        | Vp | OBVERT LEVELS | DRAIN SECTION (GL) | UPSTREAM (GL) | W.E | SURFACE OR M/C INVERT | FLOORWAD | STRUCTURE No. / UNSTRUCTURE |   |               |    |    |     |    |     |    |    |    |    |    |    |   |   |    |     |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|           |               |          |                             | min                  | mmh |     | ha | ha | ls | ls |                       |                     |                  |            |    |    |    |    |   |     |              |    |    |    |    |   |   |                            |   |      |                                     |                     |                                          |      |    |    |    |    |    |           |    |               |                    |               |     |                       |          |                             | % | m             | ls | ls | m/s | mm | mmh | ha | ls | ls | ls | ls | ls | m | % | mm | m/s | ls | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m | m |



[illegible]

|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| 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

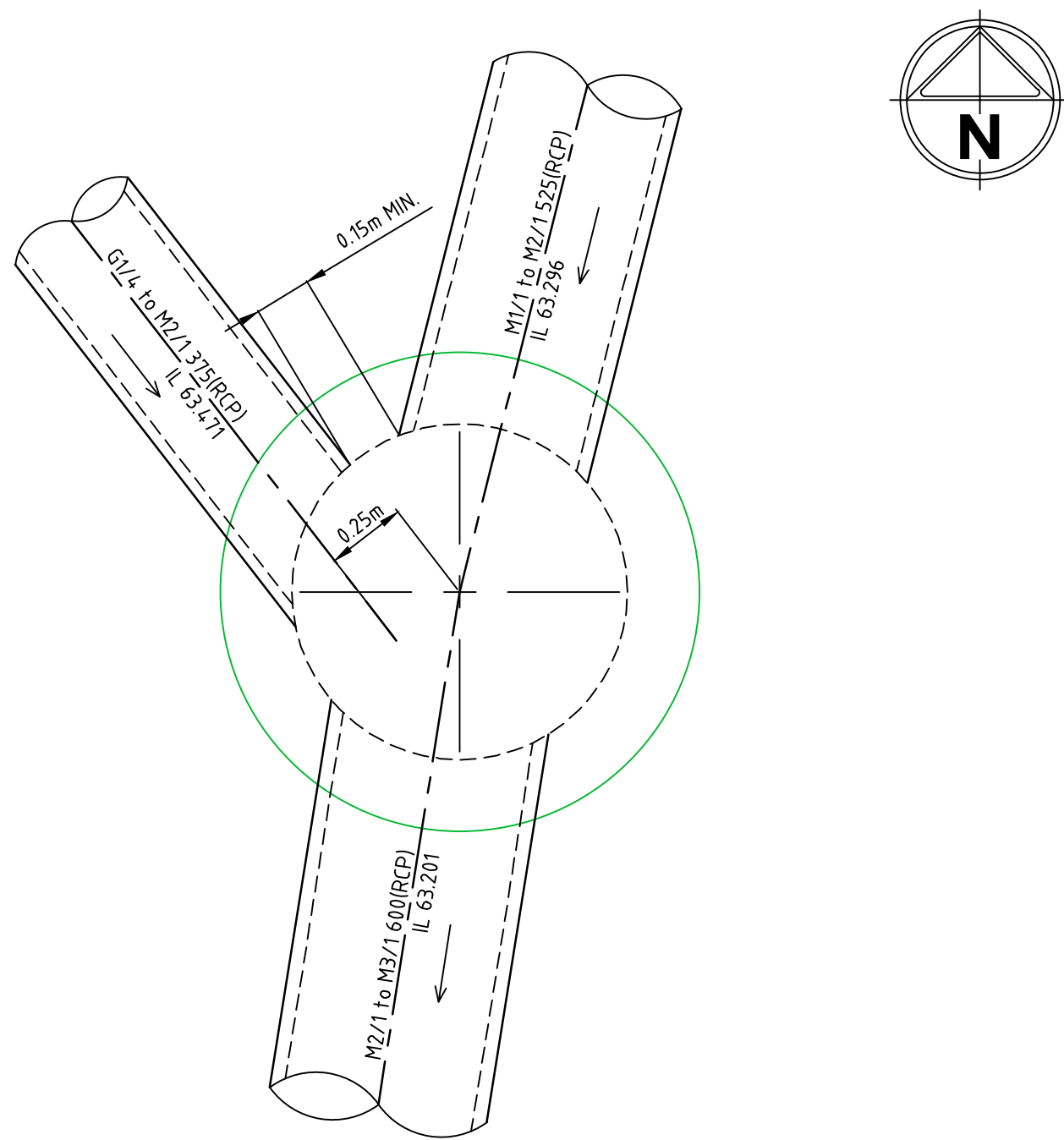
**AMORY AT RIPLEY**  
**STAGE 01**  
**STORMWATER DRAINAGE CALCULATION TABLE**  
**SHEET 4 OF 4**  
 IPSWICH CITY COUNCIL  
 RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No 320678-01-C0509

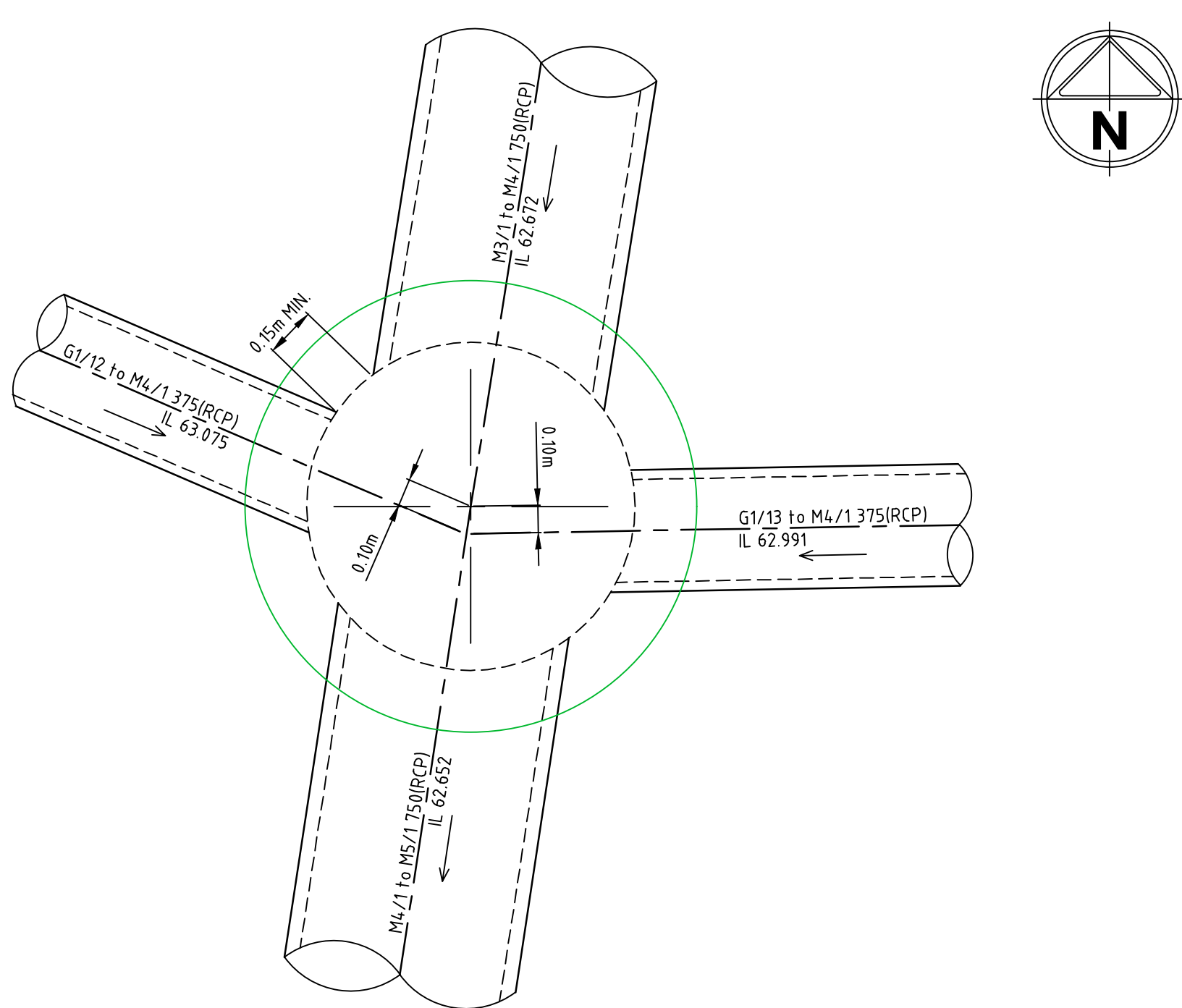
Rev  
2



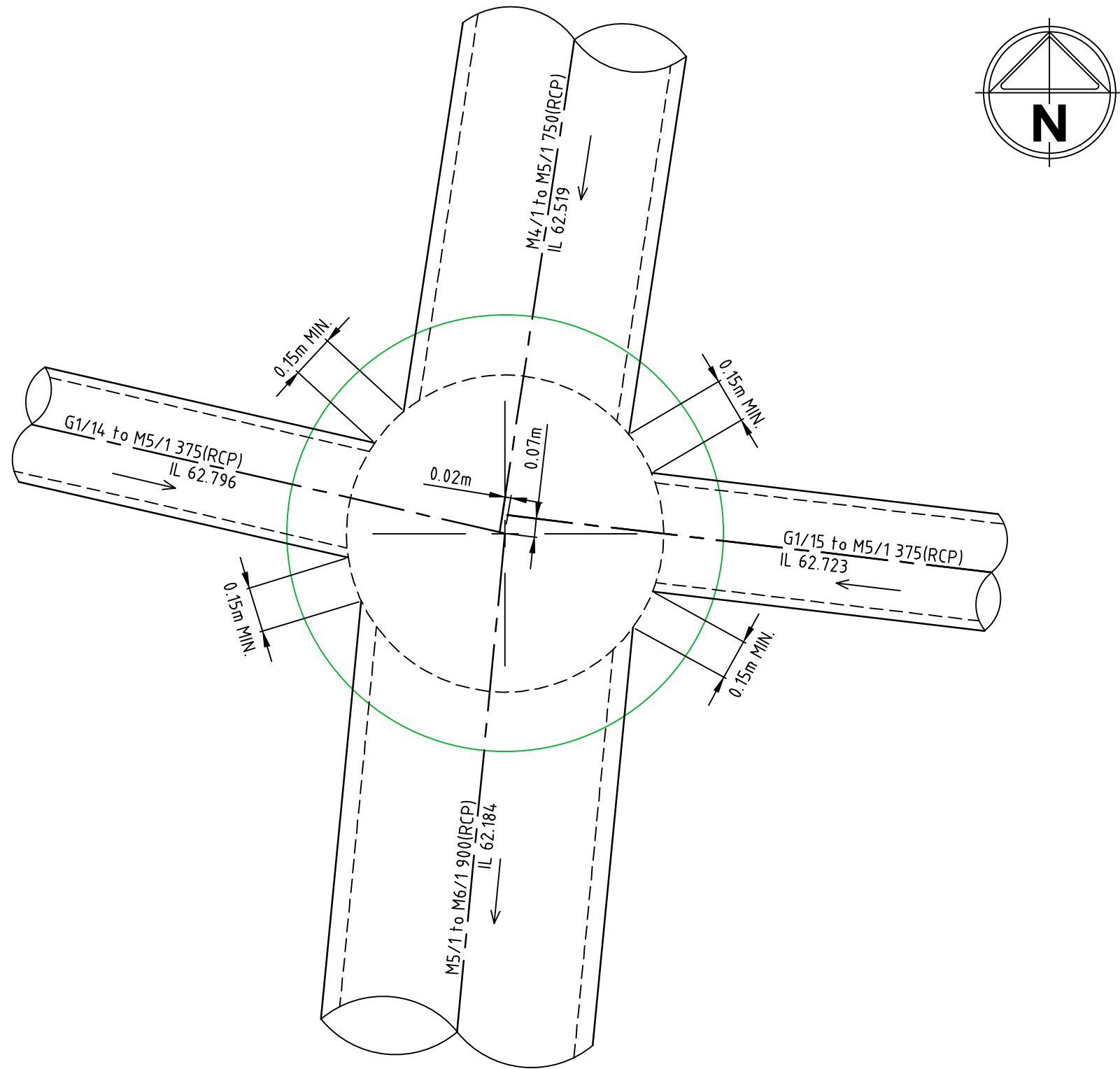
file name: 320678-01AC0510.dwg layout name: C0510 plotted by: Charlene Chessells  
FILE DETAILS



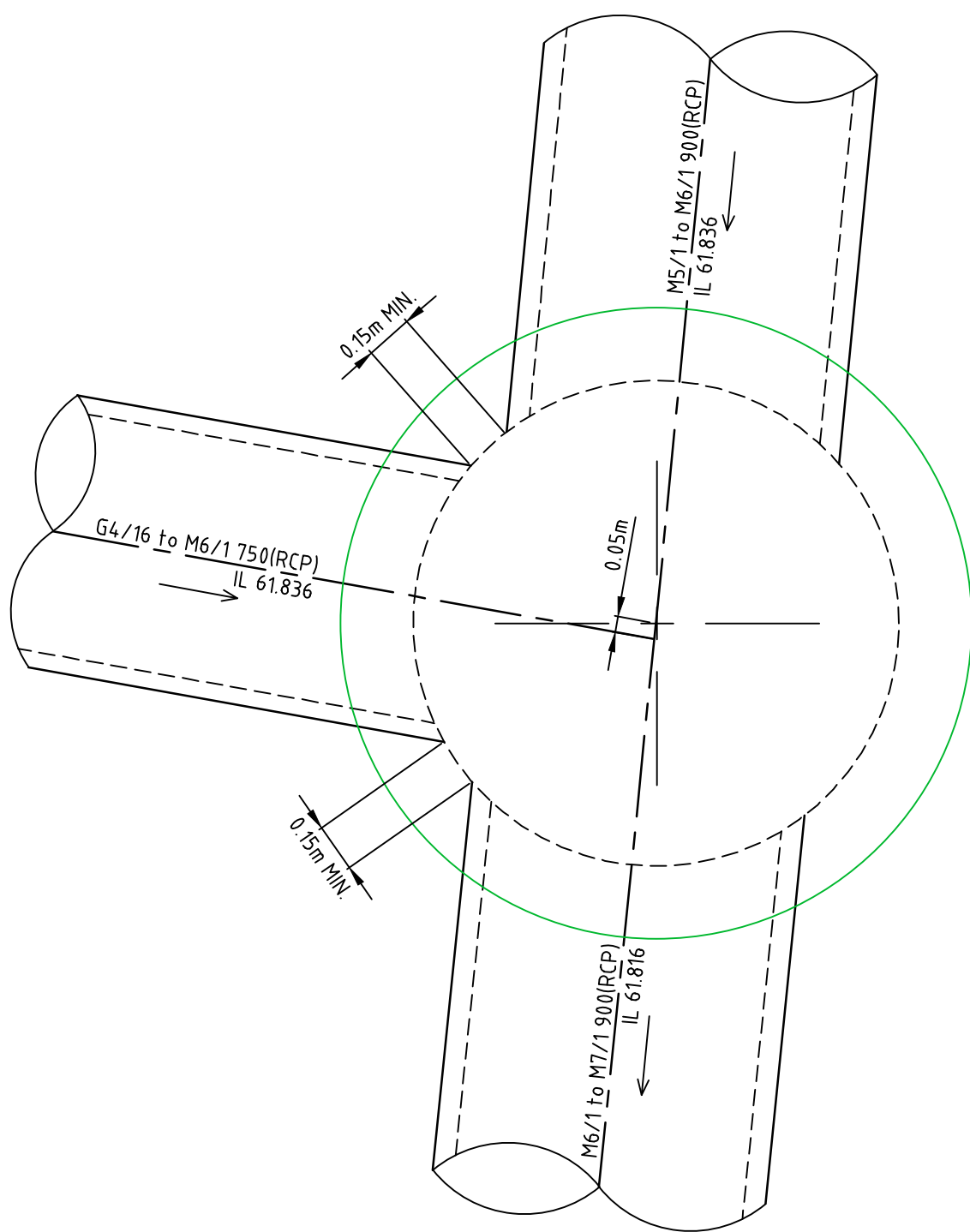
STORMWATER STRUCTURE M2/1 - 1050 $\phi$  MANHOLE  
SCALE : 1 : 20



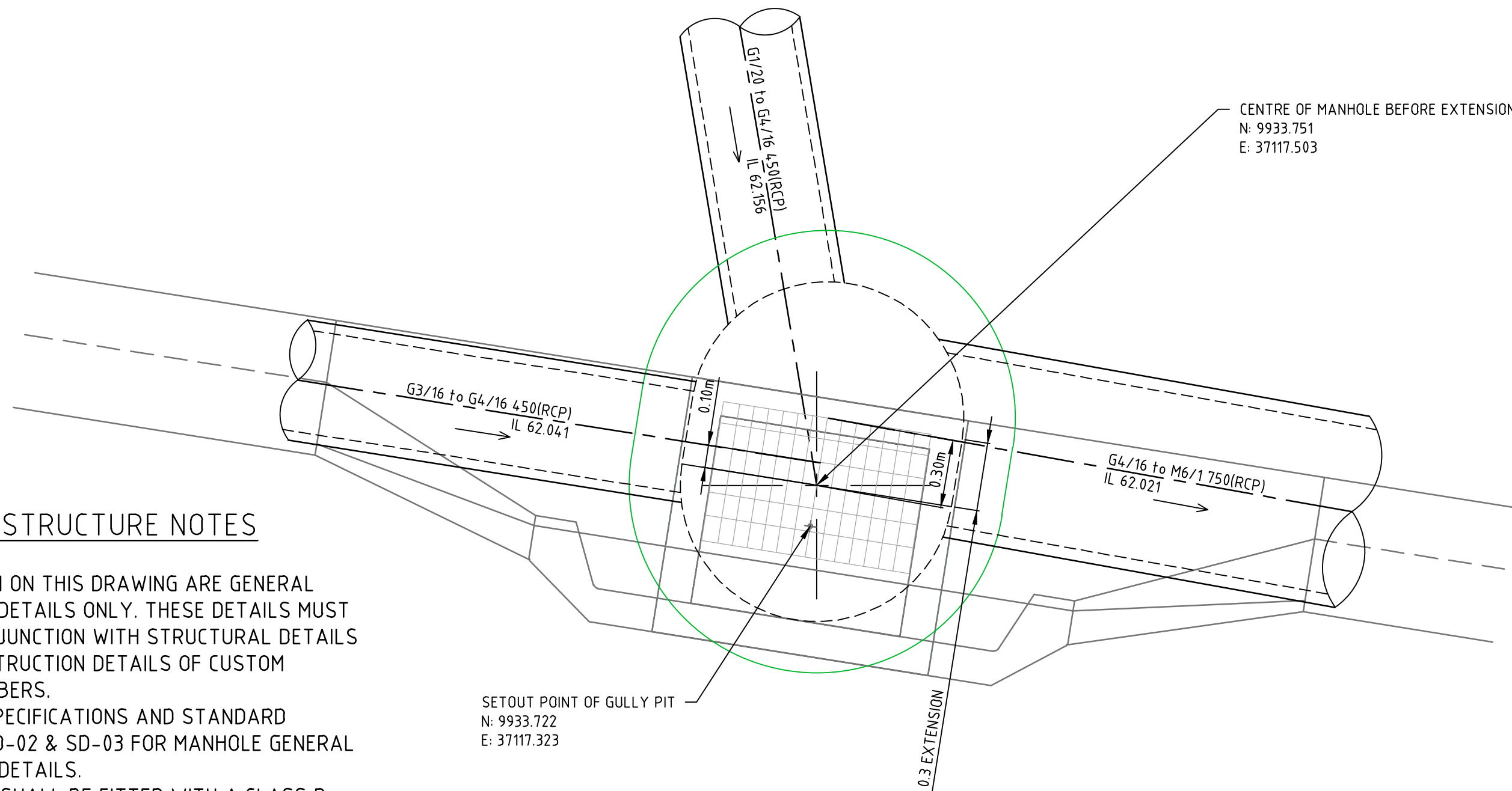
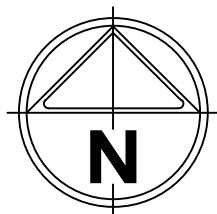
STORMWATER STRUCTURE M4/1 - 1200 $\phi$  MANHOLE  
SCALE : 1 : 20



STORMWATER STRUCTURE M5/1 - 1200 $\phi$  MANHOLE  
SCALE : 1 : 20



STORMWATER STRUCTURE M6/1 - 1500 $\phi$  MANHOLE  
SCALE : 1 : 20



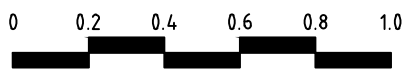
STORMWATER STRUCTURE G4/16 - 1200 $\phi$  MANHOLE EXT 300mm  
SCALE : 1 : 20

#### 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.

| Rev | Amendments             | Approved | Date     |
|-----|------------------------|----------|----------|
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 14-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 12-11-24 |

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 01  
STORMWATER STRUCTURE DETAILS**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION** Drg No  
320678-01-C0510

Rev  
2



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<br>5                          | HAS HAPPENED SEVERAL TIMES IN THE PAST YEAR AND IN EACH OF THE PREVIOUS 5 YEARS <u>OR</u> HAS A >90% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.    |
| LIKELY<br>4                                  | HAS HAPPENED AT LEAST ONCE IN THE PAST YEAR AND IN EACH OF THE PREVIOUS 5 YEARS <u>OR</u> HAS A 60-90% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.  |
| POSSIBLE<br>3                                | HAS HAPPENED DURING THE PAST 5 YEARS BUT NOT EVERY YEAR <u>OR</u> HAS A 40-60% CHANCE OF OCCURRING IN THE NEXT 24 MONTHS IF THE RISK IS NOT MITIGATED.                          |
| UNLIKELY<br>2                                | MAY HAVE OCCURRED ONCE IN THE LAST 5 YEARS <u>OR</u> HAS A 10-30% CHANCE OF OCCURRING IN THE FUTURE IF THE RISK IS NOT MITIGATED.                                               |
| RARE<br>1                                    | HAS NOT OCCURRED IN THE PAST 5 YEARS <u>OR</u> 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<br>5                            | ONE OR MORE FATALITIES OR LIFE THREATENING INJURIES OR ILLNESS, <u>OR</u> PUBLIC OR STAFF EXPOSED TO A SEVERE, ADVERSE LONG TERM HEALTH IMPACT OR LIFE THREATENING HAZARD.                                                                  |
| MAJOR<br>4                             | ONE OR MORE MAJOR INJURIES OR ILLNESS REQUIRING MAJOR SURGERY OR RESULTING IN PERMANENT DISABLEMENT <u>OR</u> PUBLIC OR STAFF EXPOSED TO A HAZARD THAT RESULTS IN MAJOR SURGERY, PERMANENT DISABLEMENT OR ADVERSE PERMANENT HEALTH EFFECTS. |
| MODERATE<br>3                          | ONE OR MORE INJURIES OR ILLNESS REQUIRING TREATMENT BY A PHYSICIAN OR HOSPITALISATION <u>OR</u> PUBLIC OR STAFF EXPOSED TO A HAZARD THAT COULD CAUSE INJURIES OR MODERATE ADVERSE HEALTH EFFECTS.                                           |
| MINOR<br>2                             | ONE OR MORE INJURIES OR ILLNESS REQUIRING TREATMENT BY A QUALIFIED FIRST AID PERSON <u>OR</u> EXPOSURE OF PUBLIC OR STAFF TO A HAZARD THAT COULD CAUSE MINOR INJURIES OR MINOR ADVERSE HEALTH EFFECTS.                                      |
| NEGLIGIBLE<br>1                        | MINOR INJURY OR AILMENT THAT DOES <u>NOT</u> REQUIRE MEDICAL TREATMENT BY A PHYSICIAN OR A QUALIFIED FIRST AID PERSON.                                                                                                                      |

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

| RISK LEVEL | REQUIRED ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VERY HIGH  | <u>ACT IMMEDIATELY:</u><br>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       | <u>ACT TODAY:</u><br>THE PROPOSED ACTIVITY CAN ONLY PROCEED, PROVIDED THAT:<br>(i) THE RISK LEVEL HAS BEEN REDUCED TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS;<br>(ii) THE RISK CONTROLS MUST INCLUDE THOSE IDENTIFIED IN LEGISLATION, STANDARDS, CODES OF PRACTICE ECT.<br>(iii) THE RISK ASSESSMENT HAS BEEN REVIEWED AND APPROVED BY THE SUPERVISOR AND<br>(iv) THE SUPERVISOR MUST REVIEW AND DOCUMENT THE EFFECTIVENESS OF THE IMPLEMENTED RISK CONTROLS. |
| MEDIUM     | <u>ACT THIS WEEK:</u><br>THE PROPOSED TASK OR PROCESS CAN PROCEED, PROVIDED THAT:<br>(i) THE RISK LEVEL HAS BEEN REDUCED TO AS LOW AS REASONABLY PRACTICABLE USING THE HIERARCHY OF RISK CONTROLS;<br>(ii) THE RISK ASSESSMENT HAS BEEN REVIEWED AND APPROVED BY THE SUPERVISOR.                                                                                                                                                                                                             |
| LOW        | <u>ACT THIS MONTH:</u><br>MANAGED BY LOCAL DOCUMENTED ROUTINE PROCEDURES WHICH MUST INCLUDE APPLICATION OF THE HIERARCHY OF CONTROLS.                                                                                                                                                                                                                                                                                                                                                        |
| VERY LOW   | <u>KEEP A WATCHING BRIEF:</u><br>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: 320678-01AC0900.dwg layout name: C0900 plotted by: Charlene Chessells FILE DETAILS

|     |                        |          |          |
|-----|------------------------|----------|----------|
|     |                        |          |          |
| 2   | ISSUE FOR CONSTRUCTION | K.H.     | 18-02-25 |
| 1   | ISSUE FOR CONSTRUCTION | K.H.     | 06-01-25 |
| 0   | ISSUE FOR CONSTRUCTION | K.H.     | 20-11-24 |
| C   | ISSUE FOR APPROVAL     | K.H.     | 05-09-24 |
| B   | ISSUE FOR TENDER       | K.H.     | 21-02-24 |
| A   | ISSUE FOR APPROVAL     | K.H.     | 01-12-23 |
| 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<br>T.MULLEN                | Checked<br>K. HOWELLS |
| Authorised<br>M. READMAN RPEQ 28295 | Date<br>DECEMBER 23   |

**AMORY AT RIPLEY  
STAGE 01  
SAFETY IN DESIGN REPORT**

IPSWICH CITY COUNCIL  
RIPLEY ESTATE DEVELOPMENT PTY LTD

**CONSTRUCTION**      Drg No  
320678-01-C0900

Rev  
**2**