

## NOTICE OF DETERMINATION OF A DEVELOPMENT APPLICATION

*Approval Issued under Section 4.18(1)(a) of the Environmental Planning and Assessment Act 1979*

<b>Application Number</b>	<b>DA-104/2022</b>
<b>Applicant</b>	Mr Timothy James Russell
<b>Land to be developed</b>	Lot 10 DP 837790, Lot 9 DP 837790, Lot 8 DP 837790 23-27 Brissett Street, INVERELL 2360
<b>Approved development</b>	Boundary Adjustment and Construction of Bus Storage Shed
<b>Building Code of Australia Classification</b>	7b
<b>Determination</b>	The determination is <b>consent granted subject to conditions.</b>
<b>Determination date</b>	9 November 2022
<b>Consent is to operate from</b>	9 November 2022
<b>Consent will lapse on</b>	9 November 2027
	Unless the work or use to which this consent relates has lawfully commenced on-site in accordance with Section 4.53 of Environmental Planning and Assessment Act 1979.

### CONDITIONS OF CONSENT

#### PRELIMINARY

1. Inverell Shire Council issues its consent, subject to conditions stated hereunder, in accordance with Section 4.17 of the *Environmental Planning and Assessment Act 1979*.

Consent is granted for:

- A boundary adjustment and consolidation resulting in:
  - Proposed Lot 1 – 23-25 Brissett Street – An approximate 9,176m<sup>2</sup> lot being a consolidation of Lots 9 and 10 DP 837790 (existing Inverell Bus Service) and undeveloped land from the rear of Lot 8 DP 837790; and
  - Proposed Lot 2 – 27 Brissett Street - An approximate 1,450m<sup>2</sup> lot containing the existing shed and car parking areas.
- Construction of a bus storage shed; and
- Installation of a self-bunded diesel fuel tank within the new bus storage shed.

To confirm and clarify the terms of consent, the development must be carried out in accordance with the stamped and approved plans (as amended in red), unless modified by any following condition. Any deviation will require the consent of Council.

2. Separate development consent is required for the extension to the existing bus storage shed on Lot 10 DP 837790, 23 Brissett Street, Inverell as noted in red on the approved plans.
3. The applicant must comply with all relevant prescribed conditions as contained in Part 4, Division 2 of the *Environmental Planning & Assessment Regulation 2021*.

#### CONDITIONS RELATING TO THE BOUNDARY ADJUSTMENT

4. A Subdivision Certificate must be obtained from Council in accordance with the *Environmental Planning and Assessment Act 1979*.

5. Prior to issue of a Subdivision Certificate, all stormwater from proposed Lot 2 must be:
- Directed to Council's stormwater drainage system in Brissett Street; or
  - Directed to the Council drain within Lot 2 DP 1080168 at the rear of the site, via an easement through proposed Lot 1.

### **CONDITIONS RELATING TO THE BUS STORAGE SHED**

#### ***During Construction***

6. To safeguard the local amenity, reduce noise nuisance and to prevent environmental pollution during the construction period:
- Works on site are to be carried out in accordance with the *Protection of the Environment Operations Act 1997* in relation to noise, dust and associated nuisances from the site. The carrying out of works shall not interfere with the quiet enjoyment of the surrounding neighbourhood;
  - Construction may only be carried out between 7.00am and 5.00pm, Monday to Saturday, and no construction is to be carried out at any time on a Sunday or Public Holiday. Council may consent to vary these hours in particular circumstances where it can be demonstrated that it is unavoidable;
  - Stockpiles of topsoil, sand, aggregate, spoil or other material shall be stored clear of any drainage path of easement, natural watercourse, footpath, kerb or road surface and shall implement measures to prevent the movement of such material off site;
  - Building operations such as brick cutting, washing tools, concreting and bricklaying shall be undertaken on the building block. The pollutants from these building operations shall be contained on site;
  - Builders waste must not be burnt or buried on site. All waste (including felled trees) must be contained and removed to a waste disposal depot; and
  - Where the proposed development involves the disturbance of any existing survey monuments, those monuments affected will need to be relocated by a registered surveyor under the *Surveying and Spatial Information Act 2002*. A plan showing the relocated monuments will then be required to be lodged as a matter of public record at the Lands Titles Office.
7. Prior to commencement of works (including earthworks), run-off and erosion control measures must be implemented in accordance with the approved plans to prevent soil erosion, water pollution and the discharge of loose sediment on the surrounding land.

Run-off and erosion control measures must be in place for the duration of building work and until adequate cover is established on the site.

#### ***Prior to Occupation***

8. An Occupation Certificate must be issued for the building in accordance with the *Environmental Planning and Assessment Act 1979*.

*Note: Prior to issue of the Occupation Certificate, the Principal Certifying Authority is required to be satisfied, amongst other things, that:*

- *all required inspections (including each applicable mandatory critical stage inspection) have been carried out; and*
  - *any preconditions to the issue of the certificate required by a development consent have been met.*
9. Prior to issue of an Occupation Certificate:
- The boundary adjustment approved under this consent is to be completed and registered with the NSW Registry Office; or
  - Lots 8, 9 and 10 DP 837790 are to be consolidated into a single allotment, with a plan of consolidation registered with the NSW Registry Office.

10. Prior to issue of an Occupation Certificate, all stormwater shall be drained in accordance with the approved engineering plans.
11. Prior to issue an Occupation Certificate, all car parking is to be constructed, bitumen sealed and line marked in accordance with the approved plans.
12. Prior to issue of an Occupation Certificate, the bitumen sealed hard stand area is to be extended to the new bus storage shed.
13. Prior to issue of an Occupation Certificate, all landscaping is to be completed in accordance with the approved plans.
14. Prior to issue of an Occupation Certificate, the owner of the building must provide Council with a fire safety certificate with respect to each fire safety or other safety measures installed in the building.
15. Prior to issue of an Occupation Certificate, the disconnection of the historic water main through Lot 9 DP 837790 and new internal water connection/s are to be completed in accordance with the approved engineering plans.

*Note: The connection and disconnection costs will be subject to quote from Council's engineering division.*

#### **Ongoing Use**

16. All landscaping, driveways, car parking and bitumen hard stand areas area are to be maintained in perpetuity in a reasonable manner.
17. The owner of the building must certify to Inverell Shire Council every year that the essential fire safety measures installed in the building have been inspected and are capable of operating to the required minimum standard.
18. All vehicles must enter and leave the site in a forward direction.
19. All fuels, waste oils, hydraulic fluids, etc. are to be stored within the bus storage shed a suitably bunded area. Waste oils, hydraulic fluids, etc. are to be disposed in accordance with the Protection of Environment Operations Act 1997.  
  
A spill procedure is to be implemented on-site and spills (i.e. fuel, oils, hydraulic fluids) are not to be hosed down drains, driveways or street gutters.
20. The western side of the bus storage shed is not to be enclosed, including the installation of roller/sliding doors, without the prior consent of Council.

#### **REASONS FOR CONDITIONS**

The above conditions have been imposed:

1. To ensure compliance with the terms of the applicable environmental planning instruments.
2. Having regard to Council's duties of consideration under Section 4.15 of the *Environmental Planning and Assessment Act 1979*, as well as Section 4.17 which authorizes the imposing of the consent conditions.
3. Having regard to the circumstances of the case and the public interest.

## REASONS FOR APPROVAL

1. The development, subject to conditions, is consistent with the objectives of the IN1 General Industrial zone.
2. The boundary adjustment complies with the subdivision controls of the Inverell Development Control Plan 2013.
3. The built form and design of the bus storage shed, subject to conditions is consistent with industrial area and complies with the industrial and parking controls of the Inverell Development Control Plan 2013.
4. The above fuel ground fuel is self-bunded and located within the proposed building. Subject to conditions, it is not considered to have a significant adverse environmental impact.

## COMMUNITY CONSULTATION

Neighbour notification was undertaken in accordance with the Inverell Community Participation Plan. No submissions were received.

## RIGHT OF APPEAL

If you are dissatisfied with this decision, Division 8.3 of the *Environmental Planning and Assessment Act 1979* gives you the right to appeal to the Land and Environment Court within 6 months after the date on which you receive this notice. You are also advised that Division 8.2 of the *Environmental Planning and Assessment Act 1979* provides that you may apply to Council for a review of this decision subject to the limitations contained in that section and payment of the prescribed fee.

On behalf of Inverell Shire Council



**CHRIS FALEY**  
**DEVELOPMENT SERVICES COORDINATOR**

Our Ref: DA-104/2022 & CC-87/2022

18 January 2023

Dineen Holdings Pty Limited  
37 Mansfield Street  
Inverell NSW 2360

Dear Sir/Madam

**NOTICE OF DETERMINATION  
SECTION 68 PART B APPROVAL – LOCAL GOVERNMENT ACT 1993  
LOTS 8, 9 AND 10 DP 837790 – 23-27 BRISSETT STREET, INVERELL**

Reference is made to DA-104/2022 and CC-87/2022.

Notice is hereby given that approval is granted under Section 68 of the *Local Government Act 1993*, as per the following particulars:

Property Address: 23-27 Brissett Street, Inverell

Property Description: Lots 8, 9 and 10 DP 837790

Development: The carrying out of:

- Water supply work;
- Sewerage work; and
- Stormwater drainage work.

The works were approved by Council on 18 January 2023 subject to the following conditions:

***General***

1. The works are to be undertaken in accordance with the approved development application (DA-104/2022) and construction certificate (CC-87/2022) plans.

***Prior to the Commencement of Works***

2. Prior to the commencement of any water supply and/or sewerage works, a Notice of Work by a licensed plumber is to be submitted to Council.

***During Works***

3. Council is to undertake the following inspections for sewerage works:
  - Internal drainage; and
  - External drainage.

*Note: Refer to the relevant Construction Certificate or Complying Development Certificate for other mandatory inspections required for the project.*

4. To safeguard the local amenity, reduce noise nuisance and to prevent environmental pollution during the construction period:
  - Works on site are to be carried out in accordance with the *Protection of the Environment Operations Act 1997* in relation to noise, dust and associated nuisances from the site. The carrying out of works shall not interfere with the quiet enjoyment of the surrounding neighbourhood.
  - Stockpiles of topsoil, sand, aggregate, spoil or other material shall be stored clear of any drainage path of easement, natural watercourse, footpath, kerb or road surface and shall implement measures to prevent the movement of such material off site.
  - Builders waste must not be burnt or buried on site. All waste (including felled trees) must be contained and removed to a Waste Disposal Depot.
  - Sediment and erosion control measures are to be implemented onsite and maintained until the site is fully stabilised, in accordance with Council's Erosion and Sedimentation Control Policy 2004.
  - Where the proposed development involves the disturbance of any existing survey monuments, those monuments affected will need to be relocated by a Surveyor registered under the Surveyors Act. A plan showing the relocated marks will then be required to be lodged as a matter of public record at the Lands Titles Office.
5. The applicant will:
  - Repair, or pay the full costs associated with repairing any public infrastructure that is damaged by the development, and
  - Relocate, or pay the full costs associated with relocating any public infrastructure that needs to be relocated as a result of the development.
6. All works must be undertaken in accordance with WorkCover requirements.
7. All plumbing and drainage work are to comply with Australian Standard 3500.

#### ***Upon Completion of Works***

8. Upon completion of water supply and/or sewerage works, a Certificate of Compliance is to be submitted to Council by a licensed plumber.
9. Upon completion of sewerage work, a works-as-executed diagram is to be submitted to Council.

The above conditions have been imposed having regard to Council's duties of consideration under the *Local Government Act 1993* and the *Local Government (General) Regulation 2005*, including:

- a) The protection of public health;
- b) The protection of the environment;
- c) The safeguarding of Council assets; and
- d) Matters relevant to the particular circumstances.

Any applicant who is dissatisfied with a determination may appeal to the Land and Environment Court within 12 months after the date on which this notice is received.

If you require any further information of assistance, please do not hesitate to contact Council's Development Services Division by telephoning 67288200.

Yours faithfully



**CHRIS FALEY**  
**DEVELOPMENT SERVICES COORDINATOR**

## HYDRAULIC DESIGN CERTIFICATE

**BUILDING DESCRIPTION:** PROPOSED EXTENSION INVERELL BUS SERVICE  
**BUILDING OWNER:** CAVANAGH  
**SITE ADDRESS:** 25 BRISSETT STREET INVERELL NSW 2360  
**OUR REFERENCE** JC/BT/T228765-23031CTF

**Kelley Covey Group Pty Ltd**, Consulting Engineers, being "Hydraulic Engineers", hereby certify that this office is responsible for the hydraulic design of the design shown on drawings T228765 – Hydraulic Services Sheets 1-7 Revision C dated 19/12/2022 for the proposed redevelopment of the Proposed Extension at Inverell Bus Service.

We also certify that this work was designed and complies with:

Australian Standard AS3500.1 – Water Services  
Australian Standard AS3500.2 – Plumbing and drainage Sanitary plumbing and drainage  
Australian Standard AS3500.3 – Plumbing and drainage Stormwater drainage

Furthermore, this work is in accordance with sound, widely accepted engineering principles.

**SIGNATURE:**



**Justin Cant**  
BEng, CPEng, MIEAust, RPEQ, NER, PE2165, PRE1962

**DATE:** 09 January 2023

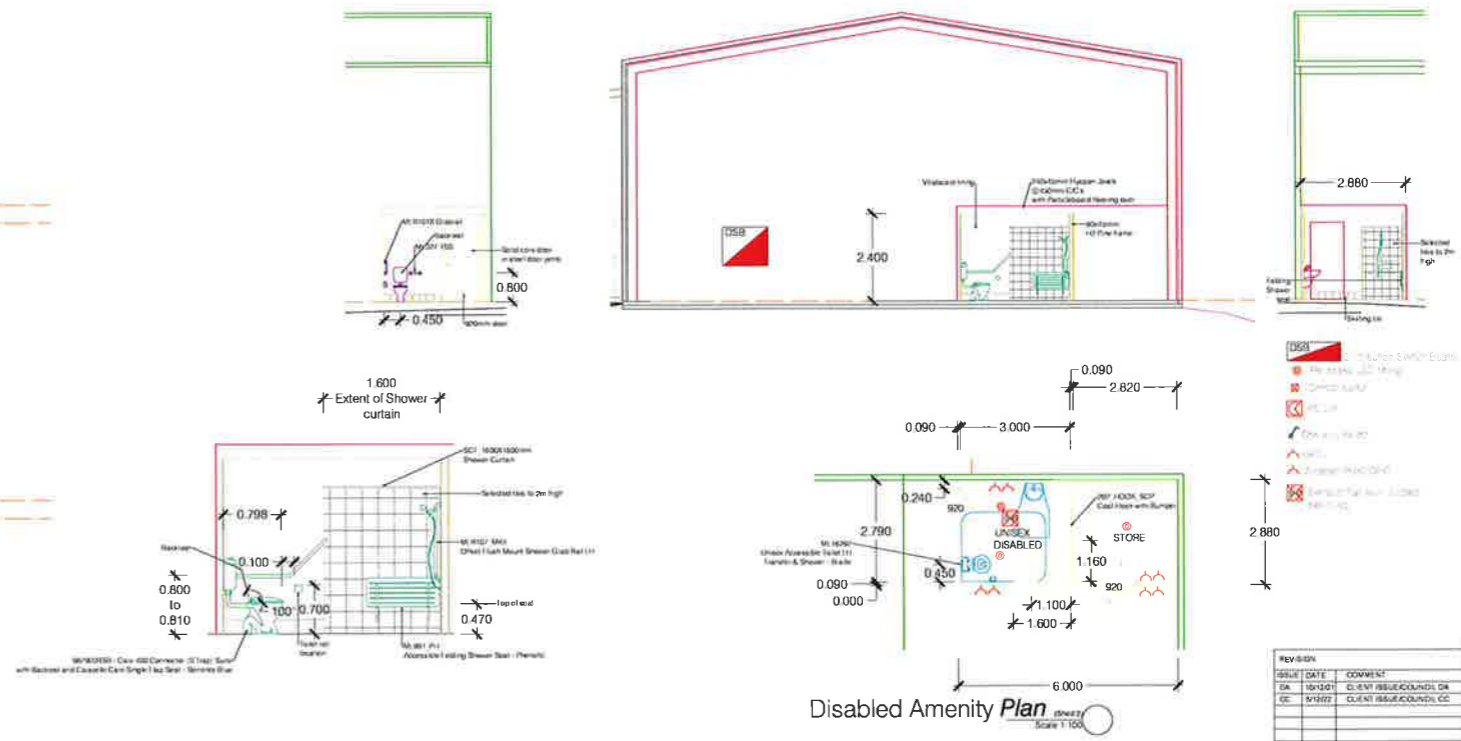
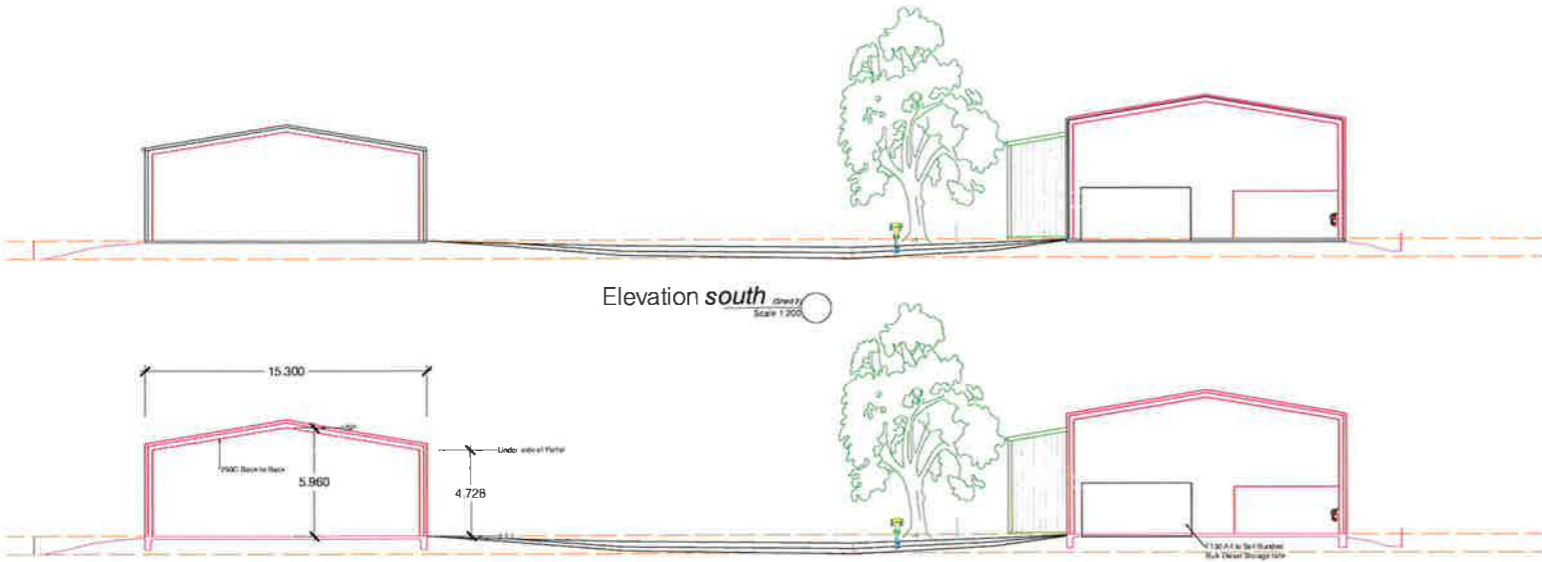


*Working Harder for You*



**INVERELL SHIRE COUNCIL  
CONSTRUCTION CERTIFICATE**  
Approved subject to the provision of the EP & A Act 1979 and EP & A Regulations 2000  
Construction Approval No: CC-87/2022  
Date: 18 January 2023

Council Officer: *[Signature]*



**INVERELL SHIRE COUNCIL  
DEVELOPMENT APPROVAL**  
Approved subject to the provisions of the E.P. & A. Act 1979 and any conditions contained in the attached written approval.  
Development Approval No: DA-104/2022  
Date: 9 NOVEMBER 2022  
Council Officer: *[Signature]*  
This is a development approval only and a Construction Certificate must still be obtained for any building work.

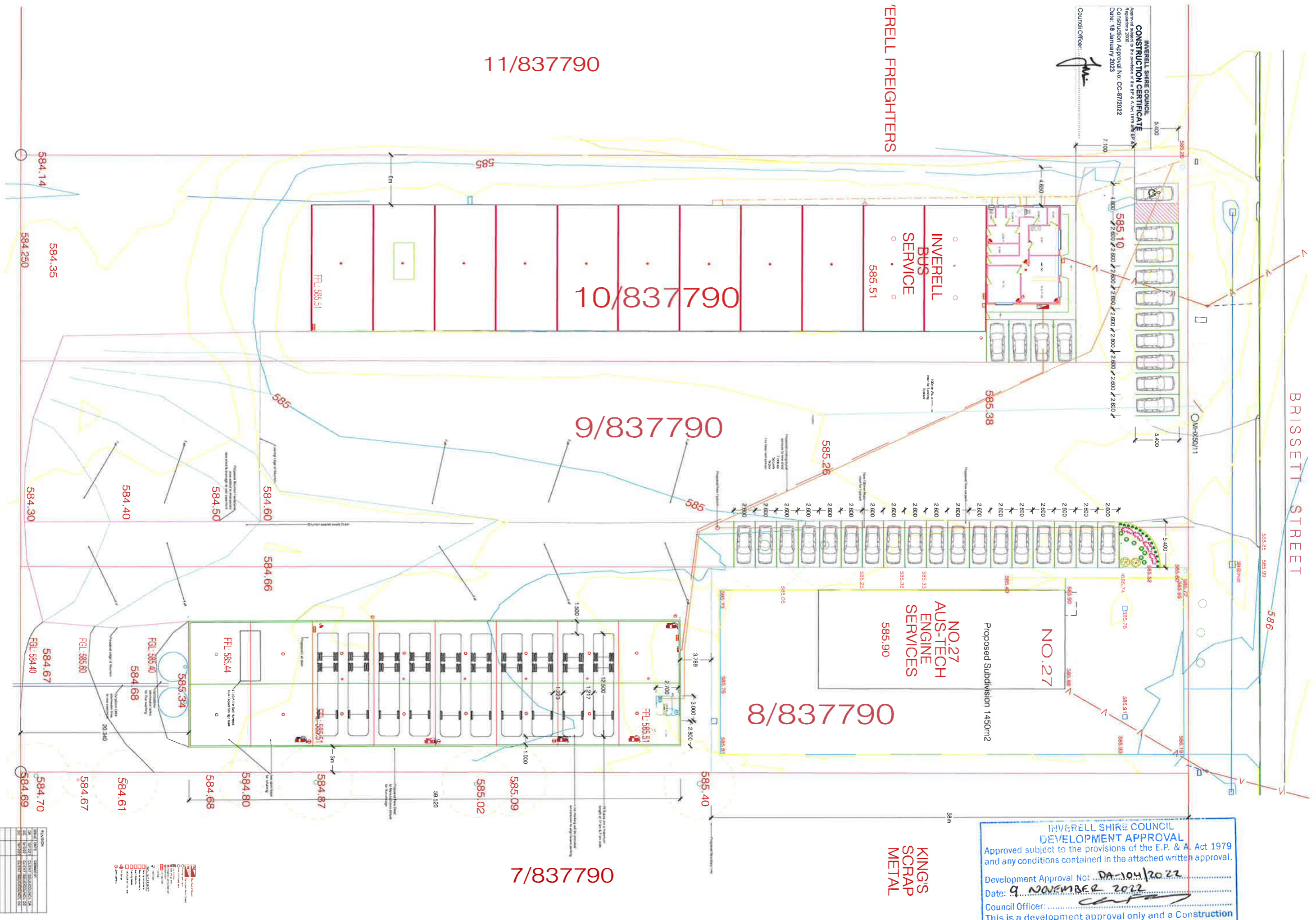
Project: Proposed Extensions Inverell Bus Service Brissett St Inverell NSW 2360	Client: Cavanagh	Area: Existing: = 1360m <sup>2</sup> New Shed: = 911m <sup>2</sup>	Sheet No Scale Date Datum	3 of 4 1:200 19/3/22
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REV	DATE	COMMENT
01	19/03/22	CLIENT ISSUE COUNCIL OK
02	19/03/22	CLIENT ISSUE COUNCIL OK



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**KING'S**  
**SCRAP**  
**METAL**



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 Council Officer: [Signature]

11/837790

10/837790

9/837790

8/837790

7/837790

INVERELL BUS SERVICE

NO. 27 AUS-TECH ENGINE SERVICES

KING'S SCRAP METAL

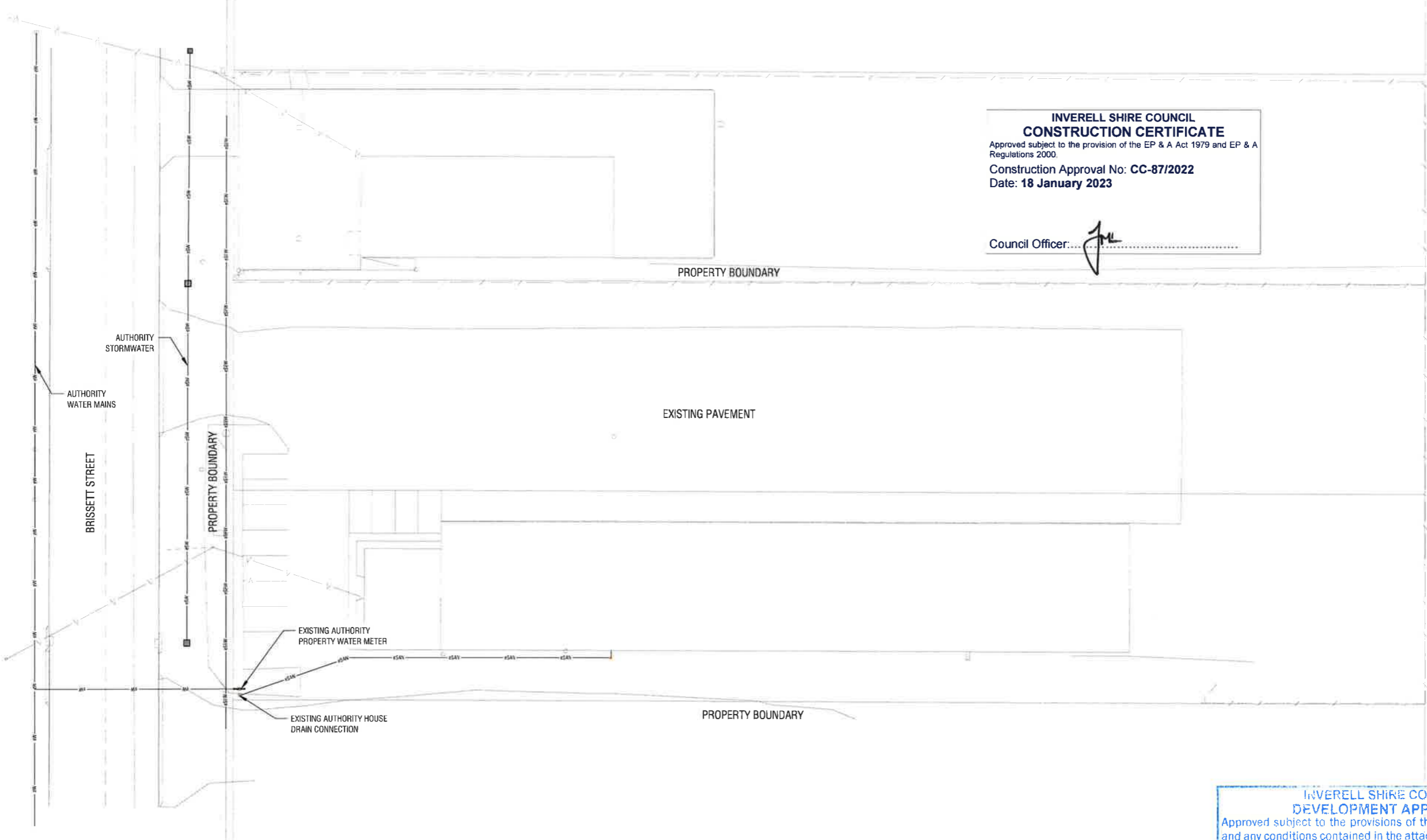
BRISSETT STREET

OMHSQ/11

NO. 27  
Proposed Subdivision 1450m<sup>2</sup>







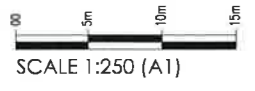
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Checked - **JC** Approved - **JC**  
 Design - **BS** Drawn - **TW**  
 Scales - **AS NOTED** Date - **08.03.22**  
 Document Stage - **APPROVAL**

**KELLEY COVEY**  
 GROUP PTY LTD

Consulting Civil, Structural and Environmental Engineers  
 Project Management, Planning and Landscape Architecture

42N 093 097 800  
 A/N 3109 1097 800

**DIRECTOR:**  
**KEVIN COVEY**  
 BEng, CPEng, MIEAust, RPEQ, MSPEP/NG

**MANAGER:**  
**JUSTIN CANT**  
 BEng, CPEng, MIEAust, NER, RPEQ, EC

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 UNIT 1  
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OFFICES AT:  
 Maroochydore QLD and Northlakes QLD  
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Project - **PROPOSED EXTENSION INVERELL BUS SERVICE**  
 Client - **CAVANAGH**

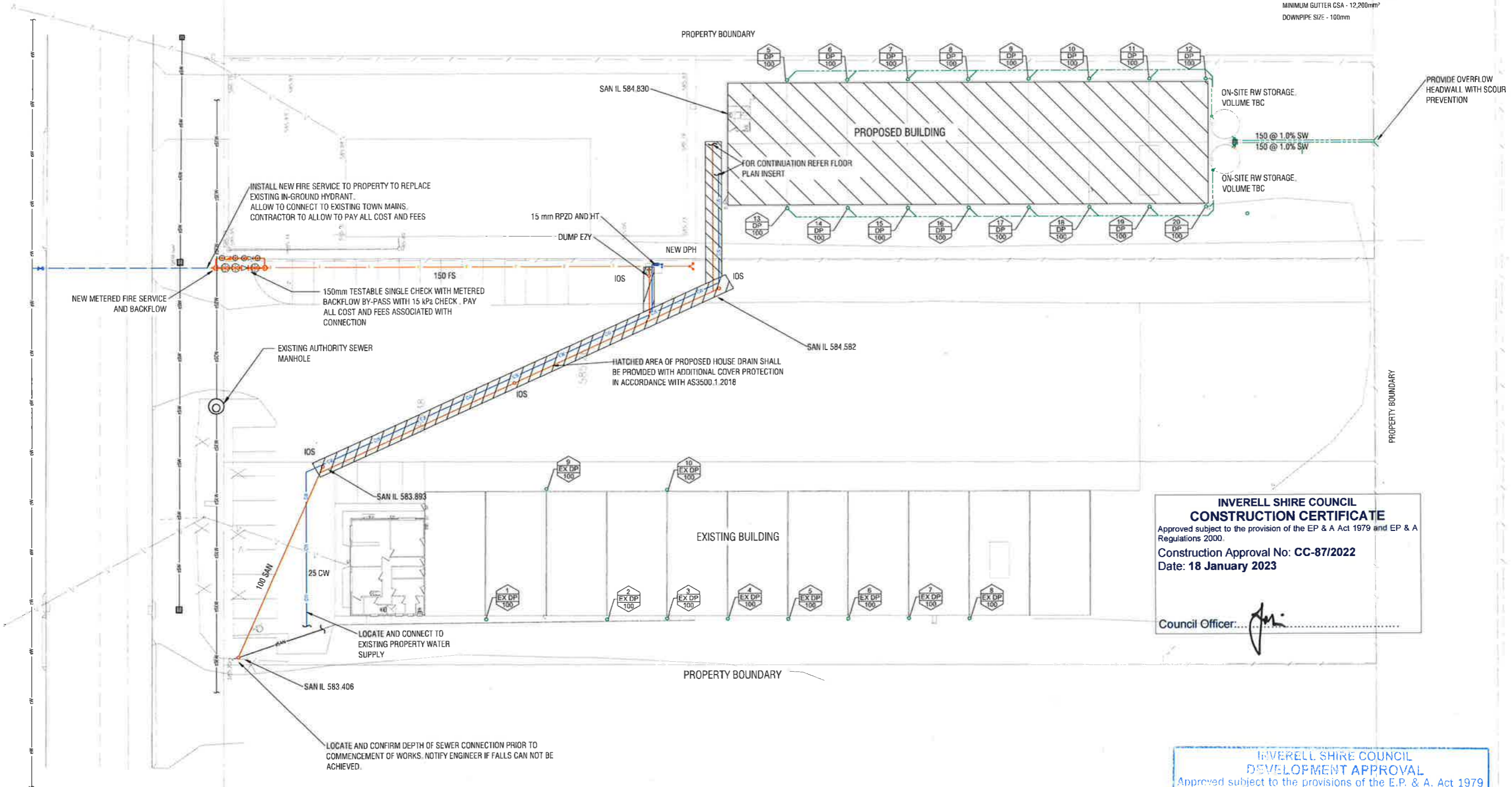
Site - **BRISSETT STREET, INVERELL, NSW 2360**

Drawing title - **SITE PLAN EXISTING**

C	19.12.2022	AIR LOCK ADDED	BS
B	07.06.2022	APPROVAL ISSUE	BS
A	12.02.2021	ORIGINAL ISSUE	BS
<b>Issue</b>	<b>Date</b>	<b>Description</b>	<b>By</b>
Project	T228765	Sheet No. 2 of 7	
Digital Ref:		Issue: C	
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**NOTES:**  
 1. EAVES GUTTERS HAVE BEEN SIZED IN ACCORDANCE WITH AS3500.3 2018  
 MINIMUM GRADE - FLATTER THAN 1 IN 500  
 MINIMUM GUTTER CSA - 12,200mm<sup>2</sup>  
 DOWNPIPE SIZE - 100mm



**INVERELL SHIRE COUNCIL  
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 Construction Approval No: **CC-87/2022**  
 Date: **18 January 2023**  
 Council Officer: *[Signature]*

**INVERELL SHIRE COUNCIL  
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 Approved subject to the provisions of the E.P. & A. Act 1979 and any conditions contained in the attached written approval.  
 Development Approval No: **DA-104/2022**  
 Date: **4 NOVEMBER 2022**  
 Council Officer: *[Signature]*  
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C	10.12.2023	AIR LOCK ADDED	BS
B	02.06.2022	APPROVAL ISSUE	BS
A	12.02.2021	ORIGINAL ISSUE	BS

Checked - **JC** Approved - **JC**  
 Design - **BS** Drawn - **TW**  
 Scales - **AS NOTED** Date - **08.03.22**  
 Document Stage - **APPROVAL**

**KELLEY COVEY**  
 GROUP PTY LTD  
 Consulting Civil, Structural and Environmental Engineers  
 Project Management, Planning and Landscape Architecture  
 ACN 599 697 820  
 ABN 3309 9091 820

**DIRECTOR:**  
**KEVIN COVEY**  
 BEng, CPEng, MIEAust, RPEQ, MSPEP/NG  
**MANAGER:**  
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 BEng, CPEng, MIEAust, NER, RPEQ, EC

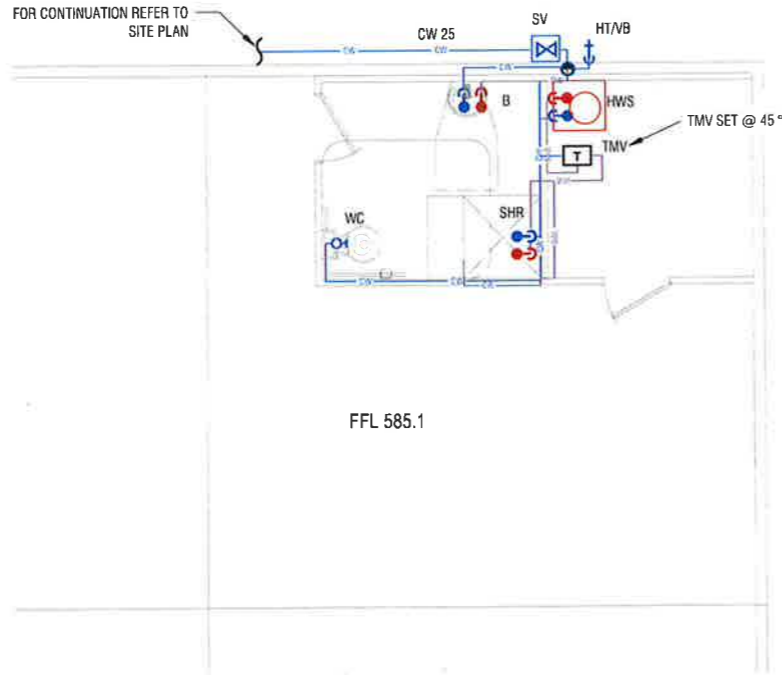
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 (07) 5443 7777 and (07) 30942800  
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Project - **PROPOSED EXTENSION INVERELL BUS SERVICE**  
 Client - **CAVANAGH**

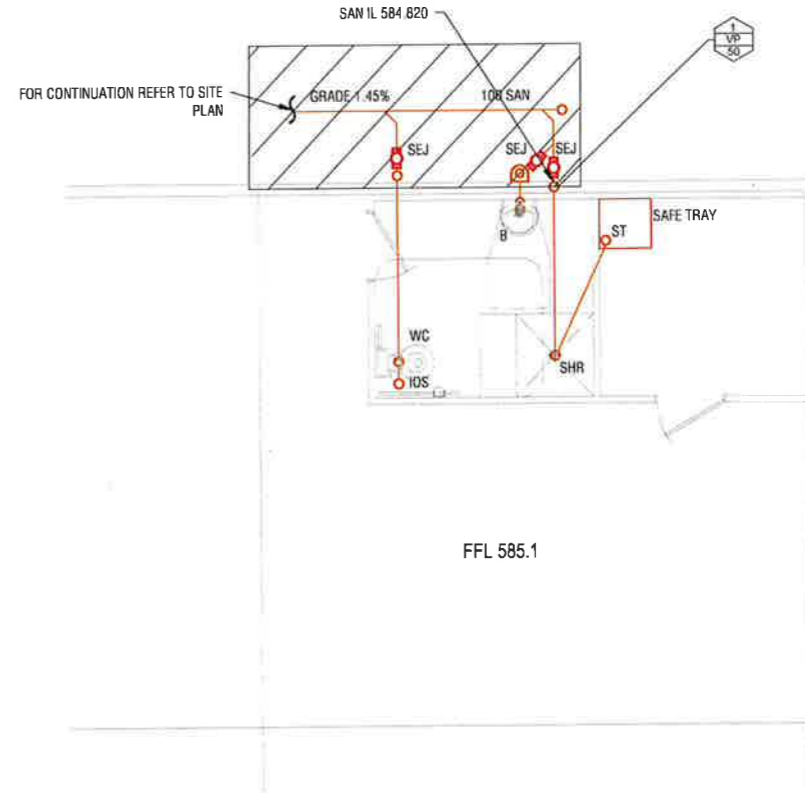
Site - **BRISSETT STREET, INVERELL, NSW 2360**

Drawing title - **PROPOSED SITE SERVICES**

Project **T228765** Sheet No. **3** of **7**  
 Digital Ref: Issue: **C**  
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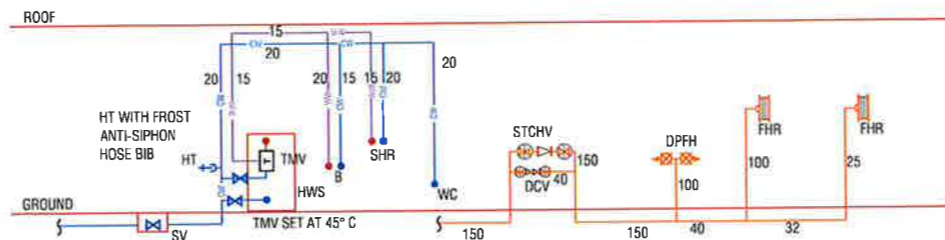
WATER SUPPLY FLOOR PLAN  
SCALE 1:50 (A1)



SANITARY DRAINAGE FLOOR PLAN  
SCALE 1:50 (A1)

**INVERELL SHIRE COUNCIL  
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Date: **9 NOVEMBER 2022**  
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COLD, HOT AND WARM WATER AND FIRE SCHEMATIC  
SCALE 1:50 (A1)

SCALE 1:50 (A1)

C	18.12.2022	AIR LOCK ADDED	BS
B	07.06.2022	APPROVAL ISSUE	BS
A	17.02.2021	ORIGINAL ISSUE	BS

Checked - **JC** Approved - **JC**  
Design - **BS** Drawn - **TW**  
Scales - **AS NOTED** Date - **08.03.22**  
Document Stage - **APPROVAL**

**KELLEY COVEY**  
GROUP PTY LTD  
Consulting Civil, Structural and Environmental Engineers  
Project: Management, Planning and Landscape Architecture  
MCN 099 697 800  
ABN 3109 8297 800

**DIRECTOR:**  
**KEVIN COVEY**  
BEng, CPEng, MIEAust, RPEQ, MSPPEPNG  
**MANAGER:**  
**JUSTIN CANT**  
BEng, CPEng, MIEAust, NER, RPEQ, EC

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EMAIL: [engineers@kelleycovey.com.au](mailto:engineers@kelleycovey.com.au) [www.kelleycovey.com.au](http://www.kelleycovey.com.au)

Project - **PROPOSED EXTENSION INVERELL BUS SERVICE**  
Client - **CAVANAGH**

Site - **BRISSETT STREET, INVERELL, NSW 2360**

Drawing Title - **FLOOR PLAN - WATER SUPPLY AND SANITARY WASTE INSERT**

Project **T228765** Sheet No. **4 of 7**  
Digital Ref: Issue: **C**  
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**STREET FIRE HYDRANT TEST - SOUTHERN FOOT PATH @ 27 BRISSETT STREET INVERELL NSW**

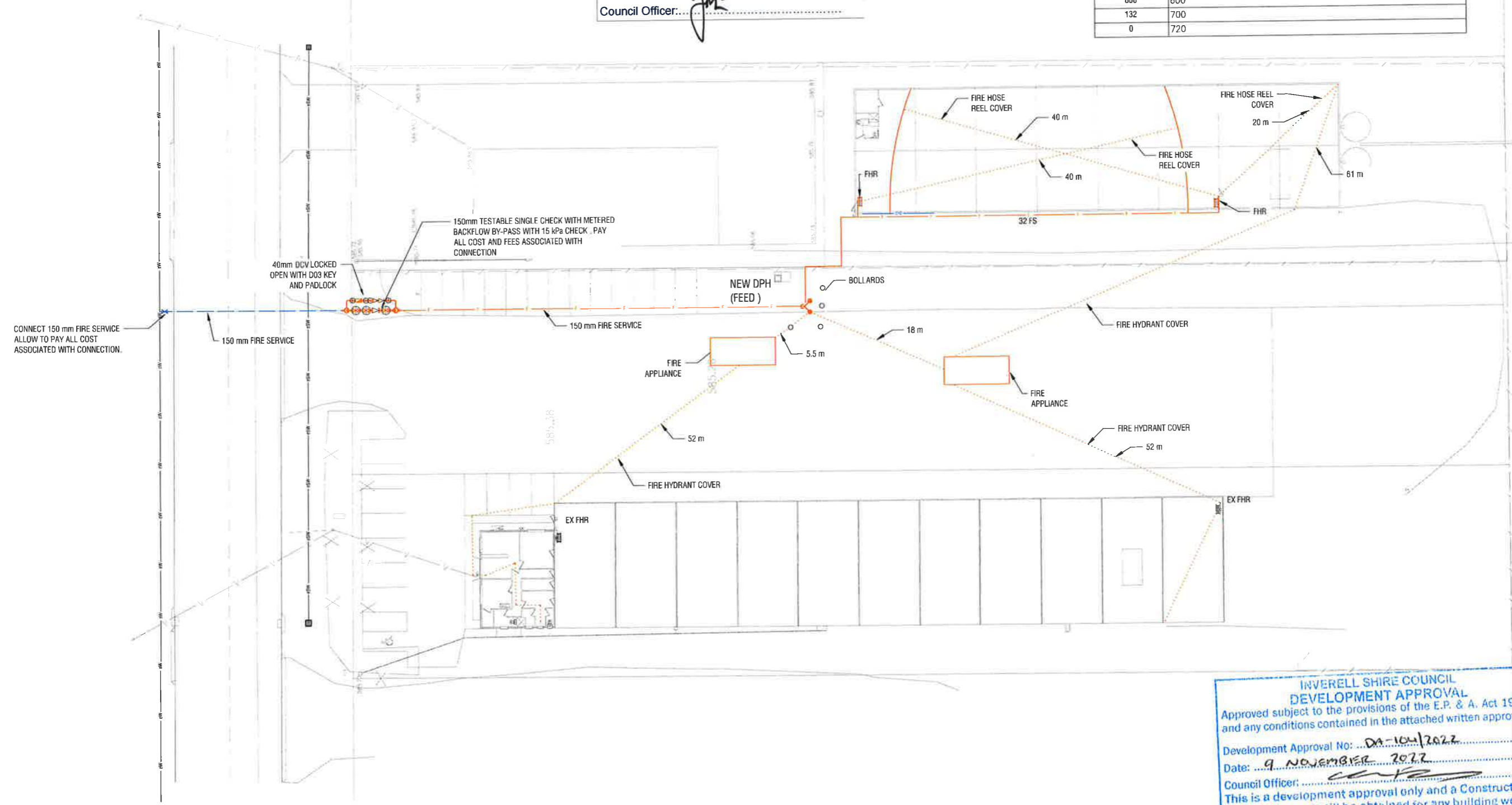
DATE: 4 TH MAY 2022 @ 11.00 am

FLOW (L/min)	PRESSURE (KPA)
1433	0
1383	100
1290	200
1154	300
1005	400
830	500
606	600
132	700
0	720

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Project Management, Planning and Landscape Architecture

ACN 099 097 800  
ABN 3709 9087 800

**DIRECTOR:**  
**KEVIN COVEY**  
BEng, CPEng, MIEAust, RPEQ, MSPCPNG

**MANAGER:**  
**JUSTIN CANT**  
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Project - **PROPOSED EXTENSION INVERELL BUS SERVICE**  
Client - **CAVANAGH**

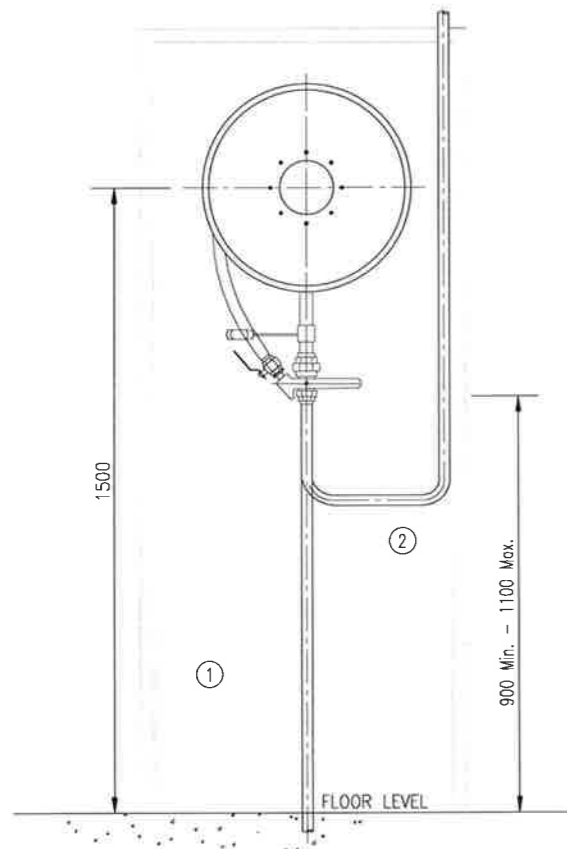
Site - **BRISSETT STREET, INVERELL, NSW 2360**

Drawing title - **FLOOR PLAN - FIRE SERVICE**

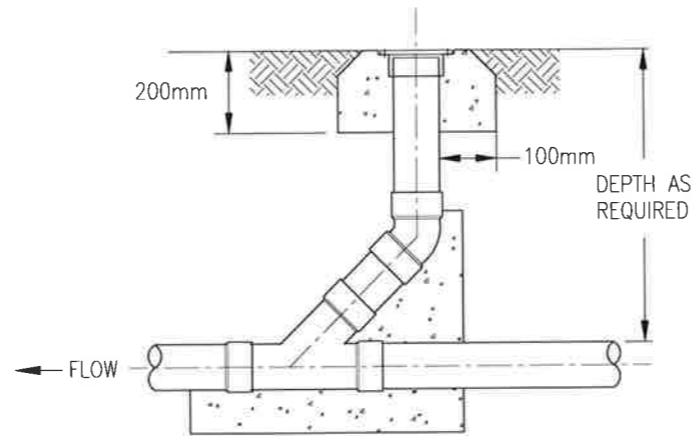
Issue	Date	Description	By
C	16/12/2022	AIR LOOK ADDED	BS
B	02/06/2022	APPROVAL ISSUE	BS
A	12/02/2021	ORIGINAL ISSUE	BS

Project **T228765** Sheet No. **5** of **7**  
Digital Ref: **T217850-A-SCW.dwg** Issue: **C**

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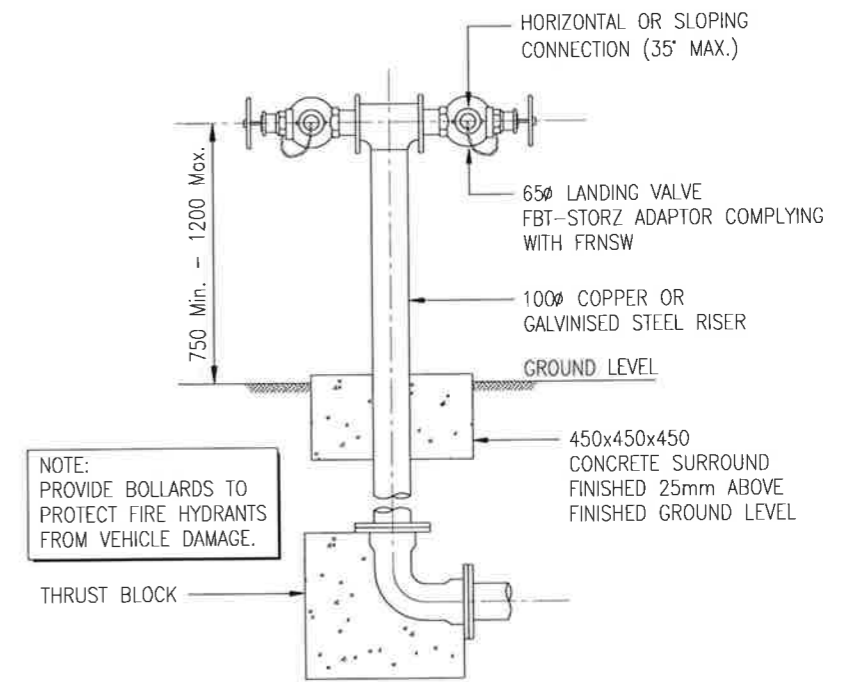


**FIRE HOSE REEL DETAIL**  
N.T.S.



PROVIDE BRASS OR STAINLESS TOP (CLIENT TO ADVISE) TO ALL INTERNAL AREAS AND EXTERNAL WALKWAYS

**TYPICAL I.O.S. DETAIL**  
N.T.S.



**DUAL PILLAR FIRE HYDRANT DETAIL**  
N.T.S.

NOTE:  
PROVIDE BOLLARDS TO PROTECT FIRE HYDRANTS FROM VEHICLE DAMAGE.

**INVERELL SHIRE COUNCIL  
CONSTRUCTION CERTIFICATE**  
Approved subject to the provision of the EP & A Act 1979 and EP & A Regulations 2000.  
Construction Approval No: **CC-87/2022**  
Date: **18 January 2023**  
  
Council Officer: *[Signature]*

**INVERELL SHIRE COUNCIL  
DEVELOPMENT APPROVAL**  
Approved subject to the provisions of the E.P. & A. Act 1979 and any conditions contained in the attached written approval.  
Development Approval No: **DA-104/2022**  
Date: **9 NOVEMBER 2022**  
Council Officer: *[Signature]*  
This is a development approval only and a Construction Certificate must still be obtained for any building work.

NOTE:  
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Checked - **JC** Approved - **JC**  
Design - **BS** Drawn - **TW**  
Scales - **AS NOTED** Date - **08.03.22**  
Document Stage - **APPROVAL**

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Project - **PROPOSED EXTENSION INVERELL BUS SERVICE**  
Client - **CAVANAGH**

Site - **BRISSETT STREET, INVERELL, NSW 2360**

Drawing title - **DETAILS**

Issue Date	Description	By
03.06.2022	APPROVAL ISSUE	BS
12.02.2022	ORIGINAL ISSUE	BS
Project <b>T228765</b> Sheet No. <b>6</b> of <b>7</b>		
Digital Ref: <b>TT217850-A-SCW.dwg</b> Issue: <b>B</b>		
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**SITE CLASSIFICATION:**

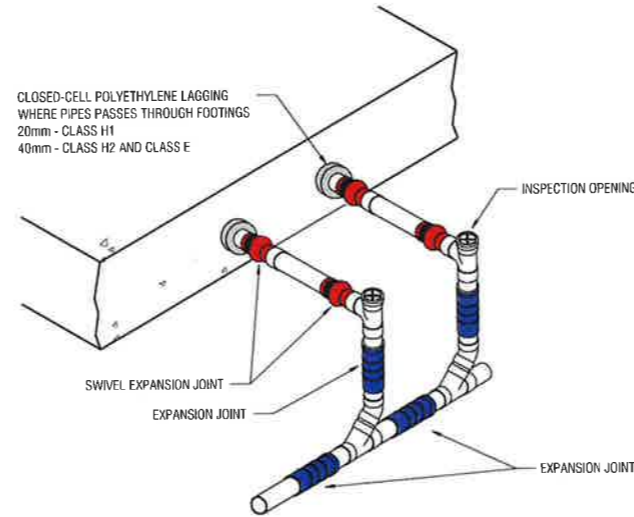
BASED ON THE RESULTS OF THE GEOTECHNICAL INVESTIGATION BY EAST WEST ENVIROAG PTY LTD , REPORT NUMBER: RGS 33361, 1-AA, THE SITE IS CLASSIFIED AS CLASS 'P'. BASED ON THE SOIL PROFILES THE SITE WOULD HAVE THE CHARACTERISTICS OF AN 'P' SITE IN ACCORDANCE WITH AS2870-2011 RESIDENTIAL SLABS AND FOOTINGS.

PS  
SOIL CLASSIFICATIONS:  
AS2870-2011

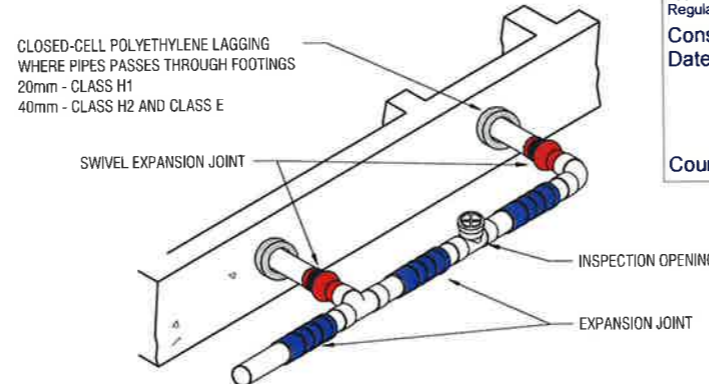
- S = SLIGHTLY REACTIVE YS ≤ 20 MM
- M = MODERATELY REACTIVE 20 MM < YS ≤ 40 MM
- H1 = HIGHLY REACTIVE 40 MM < YS ≤ 60 MM
- H2 = HIGHLY REACTIVE 60 MM < YS ≤ 75 MM
- E = EXTREMELY REACTIVE YS > 75 MM
- P = SOILS AFFECTED BY ABNORMAL MOISTURE CONDITIONS
- P2 = UNCONTROLLED FILL, SOFT SOILS OR COLLAPSING SOILS

**DRAINAGE ARTICULATION NOTES:**

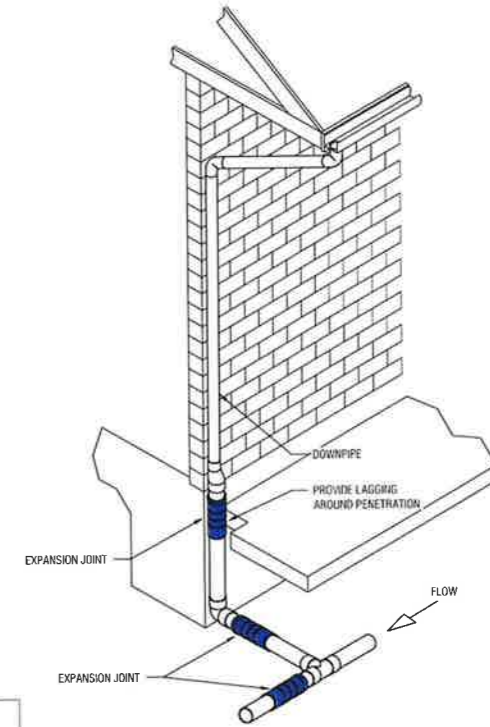
1. THE IN-GROUND MOVEMENT EFFECTS ON SANITARY & STORMWATER DRAINAGE IS TO BE CONTROLLED IN ACCORDANCE WITH AS3500 & AS2870. EXPANSION & ARTICULATION JOINTS ARE TO BE INSTALLED. THESE PLANS SHALL BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS DRAWINGS & GEOTECHNICAL REPORT.
2. 'STORM PLASTICS' EXPANSION & SWIVEL JOINT FLEXIBLE SYSTEMS ARE TO BE USED. FOR FURTHER INFORMATION AND INSTALLATIONS PROCEDURES, CONTACT 'STORM PLASTICS' PHONE: (07) 3865 4811
3. THE BASE OF TRENCHES SHALL BE SLOPED AWAY FROM THE BUILDING. TRENCHES SHALL BE BACKFILLED WITH CLAY IN THE TOP 300MM WITHIN 1.5M OF THE BUILDING. THE CLAY USED FOR BACKFILLING SHALL BE COMPACTED.
4. WHERE PIPES PASS UNDER THE FOOTING SYSTEM, THE TRENCH SHALL BE BACKFILLED FULL DEPTH WITH CLAY OR CONCRETE TO RESTRICT THE INGRESS OF WATER BENEATH THE FOOTING SYSTEM. ALTERNATIVELY, A PLASTIC MEMBRANE ACROSS THE CROSS-SECTION OF THE TRENCH, TAPED TO THE PIPE AND KEYED INTO THE SIDES AND BASE OF THE TRENCH MAY BE USED.
5. PENETRATIONS OF THE EDGE BEAMS OF A RAFT AND PERIMETER STRIP FOOTINGS SHALL BE AVOIDED WHERE PRACTICABLE, BUT WHERE NECESSARY SHALL BE DETAILED TO ALLOW FOR MOVEMENT. CLOSED-CELL POLYETHYLENE LAGGING SHALL BE USED AROUND ALL STORMWATER AND SANITARY PLUMBING DRAIN PIPE PENETRATIONS THROUGH FOOTINGS. THE LAGGING SHALL BE A MINIMUM OF 20mm THICK ON CLASS H1 SITES AND 40 MM THICK ON CLASS H2 AND CLASS E SITES. VERTICAL PENETRATIONS DO NOT REQUIRE LAGGING.
6. DRAINS ATTACHED TO OR EMERGING FROM UNDERNEATH THE BUILDING SHALL INCORPORATE FLEXIBLE JOINTS IMMEDIATELY OUTSIDE THE FOOTING AND COMMENCING WITHIN 1m OF THE BUILDING PERIMETER TO ACCOMMODATE A TOTAL RANGE OF DIFFERENTIAL MOVEMENT IN ANY DIRECTION EQUAL TO THE ESTIMATED CHARACTERISTIC SURFACE MOVEMENT OF THE SITE (YS). THE FITTINGS OR OTHER DEVICES THAT ARE PROVIDED TO ALLOW FOR THE MOVEMENT SHALL BE SET AT THE MID-POSITION OF THEIR RANGE OF POSSIBLE MOVEMENT AT THE TIME OF INSTALLATION, SO AS TO ALLOW FOR MOVEMENT EQUAL TO 0.5YS IN ANY DIRECTION FROM THE INITIAL SETTING. THIS REQUIREMENT APPLIES TO ALL STORMWATER AND SANITARY PLUMBING DRAINS AND DISCHARGE PIPES.
7. WHERE PIERS ARE USED TO SUPPORT A SLAB ON UNCONTROLLED FILL MATERIAL, PLUMBING AND DRAINAGE PIPES FOUNDING WITHIN SUCH FILL SHALL BE HUNG FROM THE SLAB MESH WITH NON-CORROSIVE STRAPS OR ARTICULATION JOINT INSTALLED IN ACCORDANCE WITH 'STORMPLASTICS' TECHNICAL GUIDELINES
8. DETAIL AND SUPPORT OF TRAPS AT THE ORG TO BE CONSIDERED ON-SITE TO ALLOW FOR POTENTIAL MOVEMENTS. THE ORG SHOULD BE CAST INTO CONCRETE MONOLITHICALLY WITH THE FOOTING SYSTEM ON CLASS 'H' AND 'E' SITE.
9. ALL DETAILS ARE INDICATIVE ONLY. FOR DESIGN OF PATHS, FOOTINGS ETC REFER TO STRUCTURAL ENGINEERS DRAWINGS.
10. TERMITTE PROTECTIONS NOT SHOWN ON THE DRAWINGS. REFER TO BUILDING DESIGNER.
11. REFER TO HYDRAULIC SERVICES DRAWINGS FOR DRAINAGE ARTICULATION JOINT LOCATIONS.



TYPICAL THROUGH SLAB  
N.T.S.



TYPICAL THROUGH SLAB - SHALLOW END  
N.T.S.



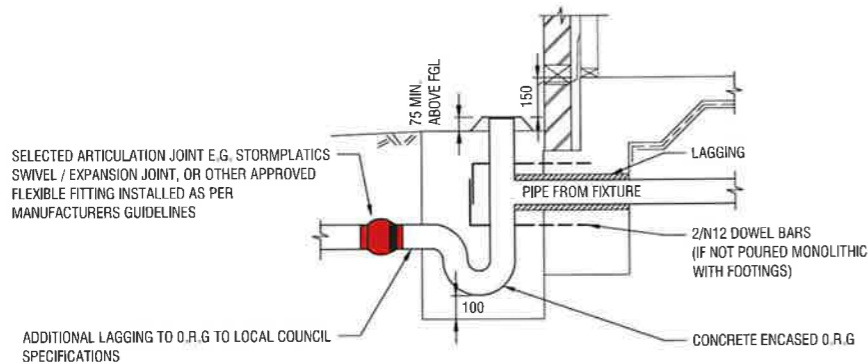
TYPICAL STORMWATER DRAINAGE  
N.T.S.

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CONSTRUCTION CERTIFICATE**  
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Construction Approval No: **CC-87/2022**  
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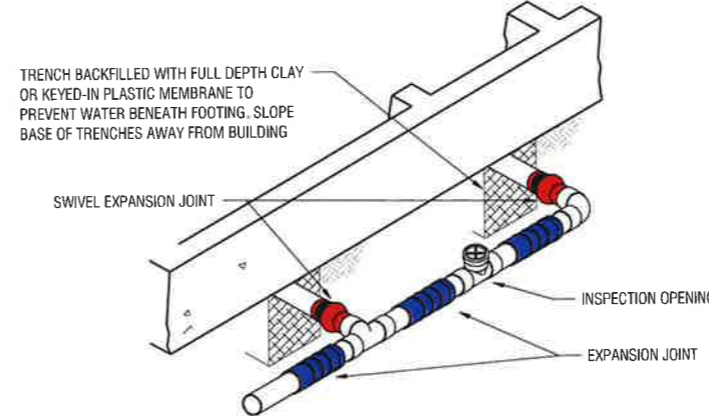
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TYPICAL SERVICE PENETRATION THROUGH SLAB  
N.T.S.



TYPICAL SECTION AT O.R.G. TO PREVENT SHEAR AT FOOTING FACE  
N.T.S.



TYPICAL UNDER SLAB - SHALLOW END  
N.T.S.

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**KELLEY COVEY**  
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**MANAGER:**  
**JUSTIN CANT**  
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Project - **PROPOSED EXTENSION INVERELL BUS SERVICE**  
Client - **CAVANAGH**

Site - **BRISSETT STREET, INVERELL, NSW 2360**

Drawing Title - **ARTICULATION DETAILS**

Issue No	Date	Description	By
B	02.06.2022	APPROVAL ISSUE	BS
A	12.02.2022	ORIGINAL ISSUE	BS
Project		T228765	Sheet No. 7 of 7
Digital Ref:		TT217850-A-SCW.dwg	Issue : A

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JULY 2022  
 T228765 DRAWING SCHEDULE  
 DA ISSUE

KELLEY COVEY GROUP PTY.  
 LTD.  
 Contact No. 02-6766-1944  
 FOR CAVANAGH PTY LTD

# PROPOSED EXTENSIONS, INVERELL BUS SERVICE

AT

INVERELL, NSW

**INVERELL SHIRE COUNCIL  
 CONSTRUCTION CERTIFICATE**  
 Approved subject to the provision of the EP & A Act 1979 and EP & A  
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 Date: **18 January 2023**  
 Council Officer: *[Signature]*



## SHEET INDEX

CIVIL DRAWING INDEX		
NO.	TITLE	ISSUE
1	TITLE SHEET	A
2	CONSTRUCTION NOTES 1 OF 2	A
3	CONSTRUCTION NOTES 2 OF 2	A
4	SITE PLAN	A
5	STORMWATER DRAINAGE PLAN AND LONGITUDINAL SECTION	A
6	PAVEMENT JOIN PLAN	A
7	EROSION AND SEDIMENT CONTROL PLAN	A



SITE LOCATION PLAN  
 NOT TO SCALE

**INVERELL SHIRE COUNCIL  
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Consulting Civil, Structural  
 and Environmental Engineers  
 Project Management,  
 Planning and  
 Landscape Architecture

ACN 099 097 800  
 ABN 3709 9097 800



CONSTRUCTION NOTES CONTINUED

CONCRETE

C1. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600-2001. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:-

Table with 2 columns: Item (FOOTINGS, SLAB ON GROUND, BLOCKWORK/BRICKWORK, PRECAST WALL PANELS, DRIVEWAY, PAVING/KERB/DRAIN) and Specification (F'c=25 MPA AT 28 DAYS, 20 NOMINAL AGGREGATE 80 SLUMP, etc.)

ALL CONCRETE SHALL BE MOISTURE CURED FOR (7) DAYS AFTER POURING, BY AN APPROVED METHOD.

- C2. EXPOSURE CLASSIFICATION = A2 (INTERNAL WORK) EXPOSURE CLASSIFICATION = A2 (EXTERNAL WORK)
C3. NO ADMIXTURES SHALL BE USED IN THE CONCRETE MIX UNLESS APPROVED BY STRUCTURAL ENGINEER IN WRITING.
C4. SUBMIT FOR APPROVAL THE FOLLOWING TO THE ENGINEER : CURING PROCEDURE (PVA MEMBRANES NOT PERMITTED) STRIPPING PROCEDURE DETAILS AND LOCATION OF CAST IN SERVICES CONDUITS, PENETRATIONS AND CONSTRUCTION JOINT LOCATIONS.
C5. FOR TENDER PURPOSES ASSUME MINIMUM STRIPPING TIMES AND EXTENT OF BACK PROPPING AS PER AS3610-1995 SECTION 5.0 AND AS PER GENERAL NOTES FOR FORMWORK AND PROPPING.

C6. FORMWORK FINISH CLASSIFICATION TO AS3600 :

Table with 2 columns: ELEMENT and CLASS. Includes items like INGROUND FOOTINGS (5), RETAINING WALLS (5 EARTH FACE), etc.

C7. SURFACE FINISHES :

Table with 2 columns: ELEMENT and FINISH. Includes items like FLOOR SLABS (U.N.O.) (MACHINE FLOAT), STAIRS (STEEL TROWEL), etc.

C8. INCLUDING FOOTINGS AND SLABS, COMPACT ALL CONCRETE USING MECHANICAL VIBRATORS.

C9. PLACE CONCRETE CONTINUOUSLY BETWEEN CONSTRUCTION JOINTS SHOWN ON PLAN. DO NOT BREAK OR INTERRUPT SUCCESSIVE POURS SUCH THAT COLD JOINTS OCCUR. ANY REVISIONS OR ADDITIONS TO CONSTRUCTION JOINTS SHOWN ON PLAN REQUIRE APPROVAL FROM THE STRUCTURAL ENGINEER.

C10. CONCRETE PROFILES :

BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE THE SLAB THICKNESS. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

PROVIDE DRIP GROOVES AT ALL EXPOSED EDGES. CHAMFERS, DRIP GROOVES, REGLETS ETC TO BE TO ARCHITECTS DETAILS.

C11. ALL PENETRATIONS TO HAVE 2/N16 TRIMMER BARS TOP AND BOTTOM TO EACH FACE U.N.O. EXTEND TRIMMERS 600 BEYOND PENETRATION.

C12. SETDOWNS OR FALLS IN FLOOR SURFACES ARE NOT PERMITTED UNLESS SHOWN ON DRAWINGS. MAINTAIN MINIMUM SLAB THICKNESS SHOWN ON PLAN WHERE FALLS OCCUR.

REINFORCEMENT

R1. REINFORCEMENT GRADE IS DESIGNATED AS FOLLOWS:- 'R' DENOTES ROUND MILD STEEL BAR, GRADE 500 'N' DENOTES NORMAL YIELD DEFORMED BAR, GRADE 500 'SL' DENOTES WELDED FABRIC, GRADE 500 'W' DENOTES HARD DRAWN DEFORMED WIRE, GRADE 500.

MINIMUM CLEAR CONCRETE COVER

Table with 4 columns: ELEMENT, FORMED AND SHELTERED LOCATION, FORMED AND EXPOSED TO WEATHER/ EARTH, WITH EARTH AS FORM. Includes items like FOOTINGS (65), COLUMNS (40), WALLS (30), BEAMS (40), SLABS (30).

MINIMUM REINFORCEMENT LAPS

Table with 4 columns: MEMBER, LAP, MEMBER, LAP. Includes items like N12 (350), N16 (600), N20 (800), N24 (1200), N28 (1650).

R2. TRENCH MESH IN FOOTING BEAMS TO BE ANCHORED BY THE WIDTH OF THE FABRIC AT 'T' AND 'L' INTERSECTIONS AT 'L' INTERSECTIONS A BENT LAP BAR 500MM LONG ON EACH LEG SHALL BE PROVIDED UNLESS OTHERWISE INDICATED ON THE PLAN

R3. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, AND NOT NECESSARILY IN TRUE PROJECTION. BARS SHOWN ARE INDICATIVE ONLY AND LENGTHS MAY VARY. BEAM ELEVATIONS TAKE PRECEDENCE OVER SECTIONS. SLAB PLANS TAKE PRECEDENCE OVER SECTIONS. REFER TO SECTIONS FOR EXTRA BARS THAT MAY BE REQUIRED.

R4. USE ONLY ALL PLASTIC OR CONCRETE CHAIRS AT EXTERNAL SURFACES.

R5. SITE BENDING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT HEATING USING A RE-BENDING TOOL. THE BARS SHALL BE RE-BENT AGAINST A FLAT SURFACE OR A PIN WITH A DIAMETER NOT LESS THAN THE MINIMUM PIN SIZE.

R6. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.

R7. FOR LAPS IN MESH REFER TO SLAB ON GROUND NOTES.

R8. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.

R9. AT EXTERNALLY EXPOSED SURFACES NO METALLIC ITEMS INCLUDING FORM BOLTS, FORM SPACERS, METALLIC BAR CHAIRS AND TIEWIRE ARE TO BE PLACED IN THE COVER ZONE.

R10. ALL REINFORCEMENT, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION AND INSPECTED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

R11. HOLD DOWN BOLTS SHALL BE HOT DIPPED GALVANIZED.

CONCRETE TESTING

1. REQUIREMENT :

- PRODUCTION ASSESSMENT - TESTING TO BE CARRIED OUT BY THE BATCHING PLANT.
- PROJECT ASSESSMENT - TESTING OF SAMPLES TO BE TAKEN ON SITE AT DISCHARGE POINT.

2. PROVIDE EVIDENCE OF PRODUCTION ASSESSMENT TO AS1379 PRIOR TO POURING.

3. CONCRETE SHRINKAGE AND CONCRETE FOR SLABS (UP TO 110MM THICK) ON GROUND, TO BE VERIFIED BY PRODUCTION ASSESSMENT.

4. CARRY OUT PROJECT ASSESSMENT FOR REMAINDER OF CONCRETE AS FOLLOWS:

- SUPPLY OF CONCRETE SHALL BE FROM A CONCRETE BATCHING PLANT, THAT CARRIES OUT PRODUCTION ASSESSMENT, FOR THE GRADES OF CONCRETE SPECIFIED FOR THIS PROJECT.
- CONCRETE SHALL BE SUPPLIED AND TESTED IN ACCORDANCE WITH AS1379 AND AS1012.
- THE ORGANISATION(S) RESPONSIBLE FOR SAMPLING AND TESTING OF CONCRETE TO HAVE RELEVANT 'NATA' LABORATORY REGISTRATION, BE INDEPENDENT, AND USE TRAINED, COMPETENT PERSONNEL FOR THE TAKING OF SAMPLES AND SPECIMENS AND THE PREPARATION OF MATERIALS AND WORK FOR TESTING.

CONCRETE TESTING

- SLUMP AT TIME OF POURING TO BE WITHIN THE PERMISSIBLE TOLERANCE IN AS1379 FOR NOMINAL SLUMP SPECIFIED.

- AT LEAST 1 SAMPLE FOR EVERY 50m3 SHALL BE TAKEN AT THE SITE, BUT NOT LESS THAN 3 SAMPLES SHALL BE TAKEN PER POUR. FIRST AND LAST BATCH PER DAY TO BE SAMPLED, THE OTHER TAKEN PROGRESSIVELY DURING THE POUR, RECORDING LOCATION IN POUR WHERE SAMPLE WAS TAKEN.

- IT IS PERMISSIBLE TO REDUCE THE NUMBER OF SAMPLES TO 2 FOR POURS OF LESS THAN 30m3, AND 1 FOR POURS OF LESS THAN 10m3.

- A SAMPLE CONSISTS OF AT LEAST 3 CYLINDERS. ONE CYLINDER SHALL BE TESTED AT 7 DAYS. TWO CYLINDERS SHALL BE TESTED AT 28 DAYS. 7 & 28 DAY TEST RESULTS TO BE SENT IMMEDIATELY TO THE STRUCTURAL ENGINEER.

- AS1379 CLAUSE B2 SHALL NOT APPLY UNLESS THE SAMPLE CONSISTS OF 6 CYLINDERS MIN. AT EACH TEST AGE.

- IF MORE THAN ONE STRENGTH GRADE IS BEING USED IN A POUR, EACH STRENGTH GRADE SHALL BE CONSIDERED A SEPARATE POUR FOR THE PURPOSES OF TESTING.

CONCRETE MATERIALS

1. CARRY OUT ALL CONCRETE WORK IN ACCORDANCE WITH AS3600 AND NATSPEC CONCRETE STANDARDS.

2. PORTLAND CEMENT :
- STANDARD - TO AS3972

3. BLENDED CEMENTS :
- STANDARD - TO AS3972
- REQUIREMENT - USE ONLY WHEN SPECIFIED.

4. FLY ASH :
- STANDARD - TO AS3582.1 'FINE GRADE' ONLY.
- REQUIREMENT - ONLY WHEN SPECIFIED. ALTERNATIVE MIX DESIGN WITH FLY ASH WILL BE CONSIDERED, PROVIDED THE CEMENTITIOUS MATERIAL MEETS THE PERFORMANCE REQUIREMENT OF THE CEMENT TYPE SPECIFIED.

5. SILICA FUME :
- STANDARD - TO AS3972
- REQUIREMENT - ONLY WHEN SPECIFIED. ALTERNATIVE MIX DESIGN WITH SILICA FUME WILL BE CONSIDERED, PROVIDED THE CEMENTITIOUS MATERIAL MEETS THE PERFORMANCE REQUIREMENT OF THE CEMENT TYPE SPECIFIED.

6. AGGREGATE :
- STANDARD - TO AS2758.1
- FINE AGGREGATE - DENSE, NATURALLY OCCURRING SAND OR ROCK, CRUSHED OR UNCRUSHED, AND EITHER SINGLE SOURCED OR BLENDED, CONFORMING TO GRADING REQUIREMENTS OF 'TABLE 3', UNCRUSHED FINE AGGREGATE OF AS2758.1
- COARSE AGGREGATE - CLEAN, HARD, DURABLE PARTICLES OF DENSE, NATURALLY OCCURRING GRAVEL OR ROCK, CRUSHED OR UNCRUSHED, AND EITHER SINGLE SOURCED OR BLENDED, CONFORMING TO GRADING REQUIREMENTS OF 'TABLE 1', 20MM GRADED AGGREGATE OF AS2758.1
- PARTICLE DENSITY - TO AS2758.1 CLAUSE 8.1, MINIMUM 2100 KG/M3/
- BULK DENSITY - TO AS2758.1 CLAUSE 8.3, MINIMUM 2100 KG/M3/
- WATER ABSORPTION - TO AS2758.1 CLAUSE 8.3, MAXIMUM 2.5%
- DURABILITY - TO AS2758.1 CLAUSE 10 CONCRETE EXPOSURE CLASSIFICATION-"SEVERE".
- ALKALI REACTIVITY - TEST FOR ALKALI REACTIVE MATERIALS TO AS2758.1 CLAUSE 14.3. SEPARATE TESTING REQUIRED ON EACH SINGLE SOURCED AGGREGATE.
- PARTICLE SHAPE - TO AS2758.1 CLAUSE 9.3, AND THE PROPORTION OF MISSHAPEN PARTICLES USING A 2:1 RATIO, NOT EXCEED 35% WHEN DETERMINED IN ACCORDANCE WITH AS:1141, SECTION 14.

FORMWORK

1. THE DESIGN, CERTIFICATION, CONSTRUCTION, INSPECTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK SHALL BE THE RESPONSIBILITY OF THE FORMWORK SUB-CONTRACTOR, EXCEPT TO THE EXTENT THAT FORMWORK DESIGN IS SHOWN ON THE STRUCTURAL DRAWINGS.

2. FORMWORK SHALL BE CERTIFIED BY A STRUCTURAL ENGINEER EXPERIENCED IN FORMWORK DESIGN IN ACCORDANCE WITH WORKCOVER REGULATIONS AND THE WORKCOVER CODE OF PRACTICE.

3. FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH AS3610. THE DESIGN SHALL ACCOMMODATE MOVEMENTS AND LOAD RE-DISTRIBUTION DUE TO ANY POST TENSIONING.

4. PROVIDE RESTRAINT OR SUPPORT TO ENSURE STABILITY OF FORMWORK THAT IS INDEPENDENT OF THE PERMANENT STRUCTURE. APPROVAL FROM THE STRUCTURAL ENGINEER IS REQUIRED IF FORMWORK SUPPORT IS REQUIRED FROM THE PERMANENT STRUCTURE.

5. FOUNDATIONS SUPPORTING THE FORMWORK SHALL BE DETERMINED BY THE FORMWORK SUB-CONTRACTOR FROM THE CONDITIONS EXISTING ON SITE AT THE TIME OF CONSTRUCTION. REFER TO THE GEOTECHNICAL REPORT FOR THE SITE.

6. FORMWORK CONSTRUCTION DIMENSIONAL TOLERANCES AND STRIPPING TIMES SHALL COMPLY WITH AS3610 AND AS3600 UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.

7. DURING CONSTRUCTION, SUPPORT PROPPING WILL BE REQUIRED WHERE LOADS FROM STACKED MATERIALS, FORMWORK AND OTHER SUPPORTED SLABS INDUCE LOADS IN A SLAB OR BEAM WHICH EXCEED THE DESIGN CAPACITY FOR STRENGTH OR SERVICEABILITY LIMIT STATES AT THAT AGE. ONCE THE NOMINATED 28 DAY STRENGTH HAS BEEN ATTAINED, THESE LOADS SHALL NOT EXCEED THE DESIGN SUPERIMPOSED LOADS SET OUT IN THESE GENERAL NOTES AT ITEM 9.

8. IT IS TO BE ANTICIPATED IN MULTI-STORY CONSTRUCTION THAT BACK-PROPPING MAY BE REQUIRED TO EXTEND A NUMBER OF LEVELS BELOW THE FLOOR BEING CAST. PROP REMOVAL IS TO BE PROGRAMMED TO AVOID DISTRESS TO PREVIOUSLY CAST FLOORS. RE-SHORING OR BACKPROPPING PROPOSALS SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.

9. FORMED CONCRETE SURFACES SHALL HAVE FORMWORK CLASS AND SURFACE FINISHES IN ACCORDANCE WITH AS3610, AS SPECIFIED BY THE PROJECT ARCHITECT, AND THE STRUCTURAL NOTES, CONCRETE SECTION.

10. DO NOT PLACE PERMANENT LOADS ON THE CONCRETE STRUCTURE UNTIL AFTER FORMWORK AND PROPPING IS REMOVED.

11. REFER TO PROJECT ARCHITECT'S DRAWINGS FOR TEST PANEL REQUIREMENTS. REINFORCEMENT FOR TEST PANELS SHALL BE SIMILAR TO THAT IN THE PERMANENT STRUCTURE REPRESENTED BY THE TEST PANEL.

12. BEFORE PLACING REINFORCEMENT IN THE FORMWORK, APPLY A RELEASE AGENT TO THE FACE OF THE FORMWORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

13. DO NOT APPLY A RELEASE AGENT TO THE FACE OF CONCRETE WHERE CONCRETE SURFACE FINISH OR APPLIED COVERINGS ARE INCOMPATIBLE WITH RELEASE AGENT.

14. CHAMFER RE-ENTRANT ANGLES AND FILLET ALL CORNERS BY 25MM UNO. PROVIDE DRIP GROOVES TO UNDERSIDE OF ALL EXPOSED EDGES.

15. BEFORE PLACING CONCRETE, REMOVE ALL WATER, DUST, AND DEBRIS FROM THE FORMWORK.

16. FILL ALL HOLES LEFT BY FORM TIE BOLTS WITH MORTAR MATCHING THE COLOUR OF THE FINISHED SURFACE.

IVERRELL SHIRE COUNCIL CONSTRUCTION CERTIFICATE
Approved subject to the provision of the EP & A Act 1979 and EP & A Regulations 2000.
Construction Approval No: CC-87/2022
Date: 18 January 2023
Council Officer: [Signature]

IVERRELL SHIRE COUNCIL DEVELOPMENT APPROVAL
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Development Approval No: DA-104/2022
Date: 9 NOVEMBER 2022
Council Officer: [Signature]
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Checked - MF Approved - JC
Design - AH Drawn - AH
Scales - AS NOTED Date - 18.07.2022
Document Stage - ORIGINAL ISSUE

KELLEY COVEY GROUP PTY LTD
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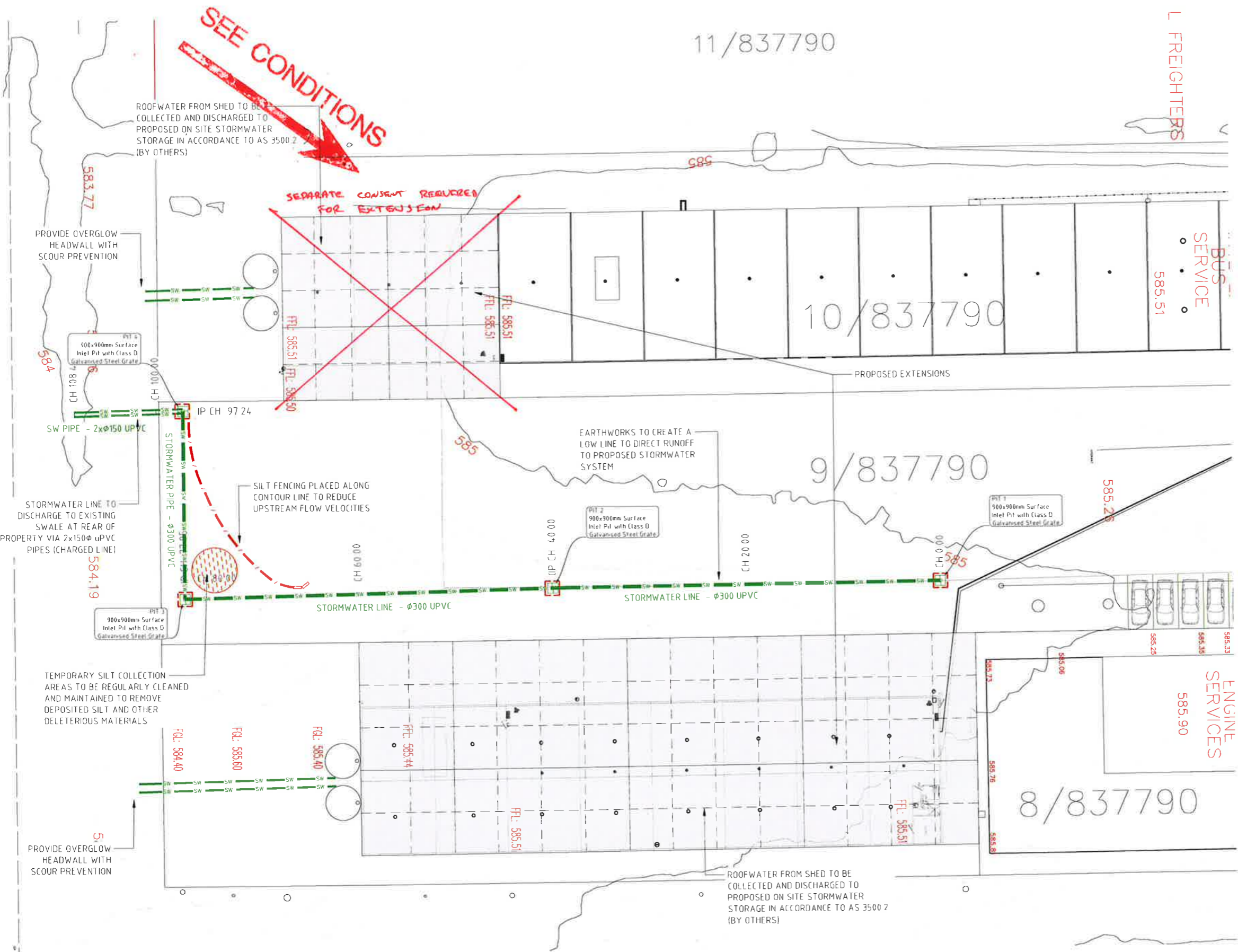
Project - PROPOSED EXTENSIONS IVERRELL BUS SERVICE
Client - CAVANAGH
128 DANGAR STREET UNIT 1 ARMDALE NSW 2350
P (02) 6766 0266

Site - 23-27 BRISETT STREET IVERRELL, NSW 2360

Drawing title - CONSTRUCTION NOTES 2 OF 2

Table with 3 columns: Issue Date, Description, By. Includes Project T228765, Sheet No. 3 of 7, Digital Ref: T228765\_RevA.dwg, Issue: A.

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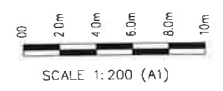


**LEGEND OF SYMBOLS & LINETYPES**

PROPOSED SILT FENCE	
PROPOSED DROP INLET SEDIMENT TRAP	
PROPOSED STRAW BALE SEDIMENT FILTER	
PROPOSED STORMWATER NETWORK	
TEMPORARY SILT COLLECTION AREA	

**INVERELL SHIRE COUNCIL**  
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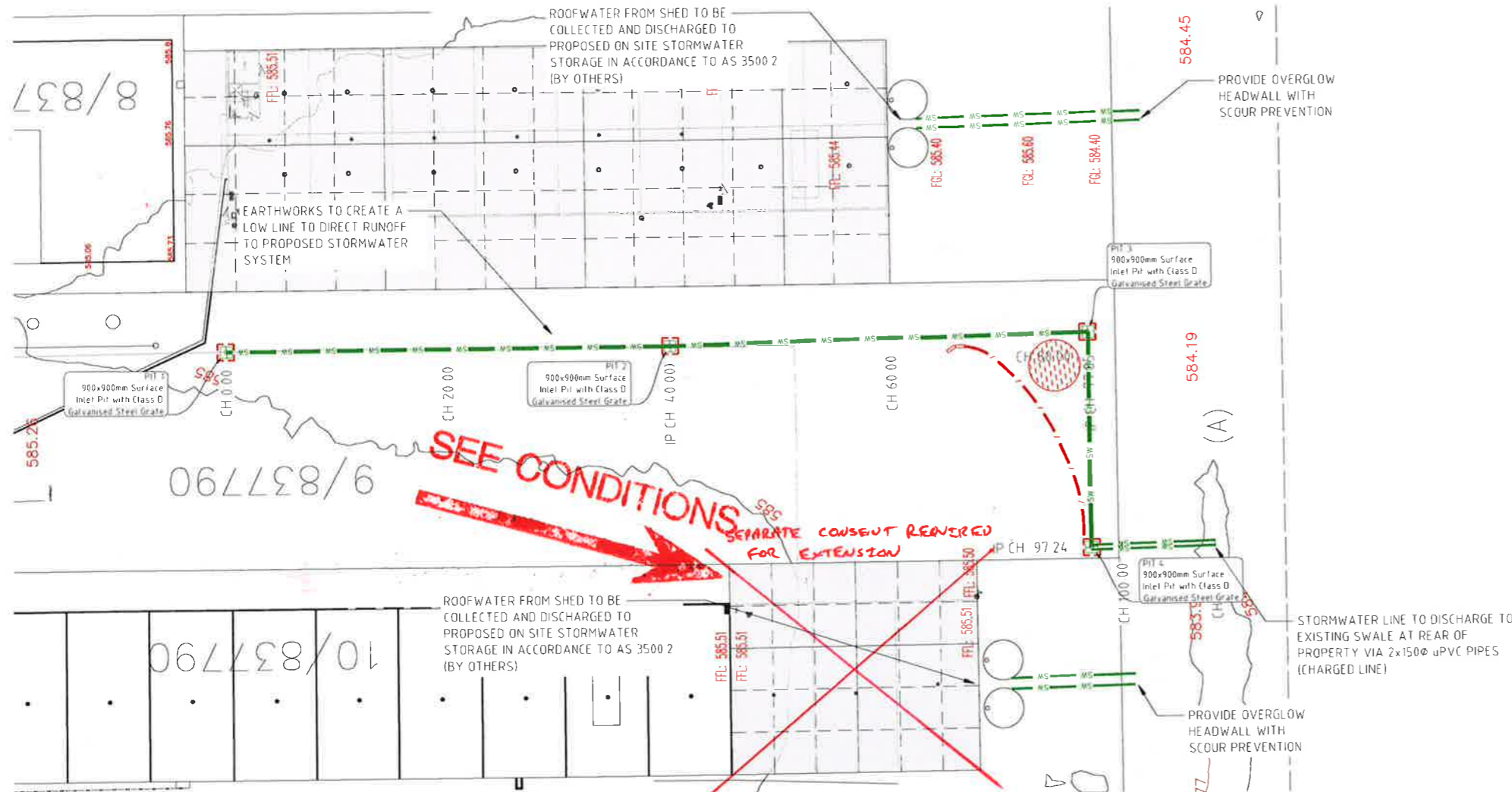
Project - PROPOSED EXTENSIONS  
 INVERELL BUS SERVICE  
 Client - CAVANAGH

Site - 23-27 BRISETT STREET  
 INVERELL, NSW 2360

Drawing title -  
 SITE PLAN

Issue Date	Description	By
08.07.2022	ORIGINAL ISSUE	AH
Project T228765	Sheet No. 4 of 7	
Digital Ref: T228765_RevA.dwg	Issue: A	

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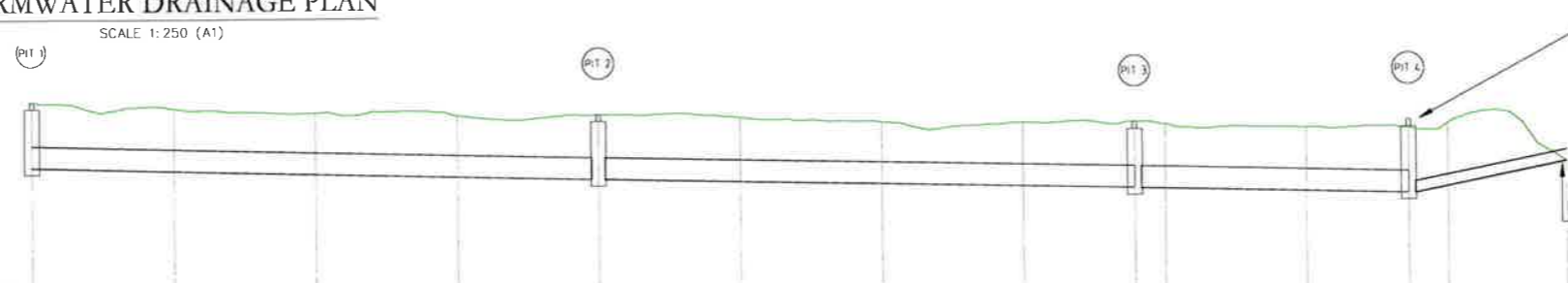
**STORMWATER DRAINAGE PLAN**

SCALE 1:250 (A1)

**LEGEND OF SYMBOLS & LINETYPES**

- PROPOSED SILT FENCE
- PROPOSED DROP INLET SEDIMENT TRAP
- PROPOSED STRAW BALE SEDIMENT FILTER
- PROPOSED STORMWATER NETWORK
- TEMPORARY SILT COLLECTION AREA

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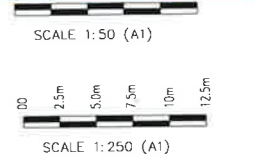


PIPE DATA	300Ø UPVC 39 550m @ 0.54%		300Ø UPVC 37 396m @ 0.50%		300Ø UPVC 18 940m @ 0.55%		2x150Ø UPVC 10 722m @ 4.00%		
INVERT LEVEL AND MINIMUM COVER	583.952 0.61m		0.60m 583.739	583.737 0.60m	0.62m 583.550	583.550 0.62m	0.60m 583.441	583.441 0.74m	-0.16m 583.870
DESIGN SURFACE LEVEL	584.874	584.777	584.708	584.652	584.648	584.590	584.505	584.481	584.475
EXISTING SURFACE LEVEL	584.87	584.78	584.71	584.65	584.65	584.59	584.50	584.48	584.47
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	77.847
									80.000
									90.000
									97.236
									100.000
									108.409

**STORMWATER DRAINAGE LONGITUDINAL SECTION**

SCALE HORIZONTAL 1:250; VERTICAL 1:50 (A1)

**INVERELL SHIRE COUNCIL**  
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**KELLEY COVEY**  
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 Consulting Civil, Structural and Environmental Engineers  
 Project Management, Planning and Landscape Architecture

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**MANAGER:**  
 JUSTIN CANT  
 BEng, CPEng, MIE Aust, NER, RPEQ, EC

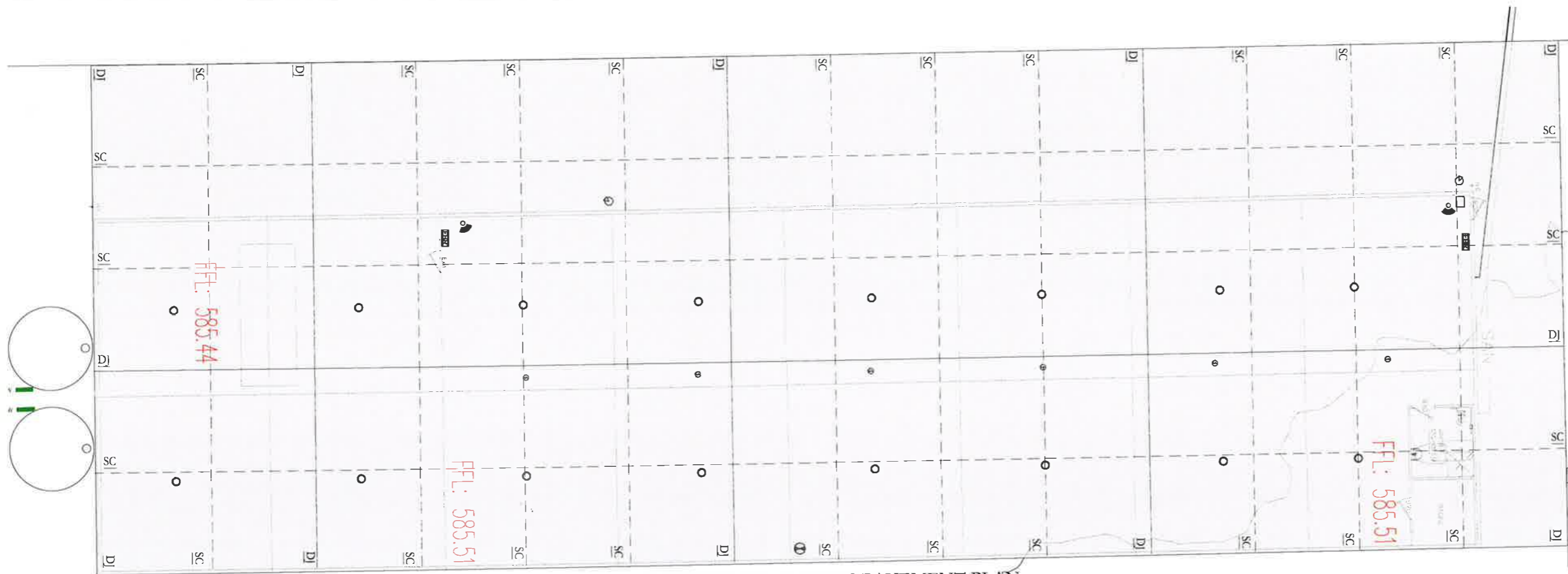
162 MARIUS STREET  
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 (07) 5443 7777 and (07) 30942600  
 EMAIL: engineers@kelleycovey.com.au www.kelleycovey.com.au

Project - **PROPOSED EXTENSIONS INVERELL BUS SERVICE**  
 Client - **CAVANAGH**  
 Site - **23-27 BRISETT STREET INVERELL, NSW 2360**

Drawing title - **STORMWATER DRAINAGE PLAN AND LONGITUDINAL SECTION**

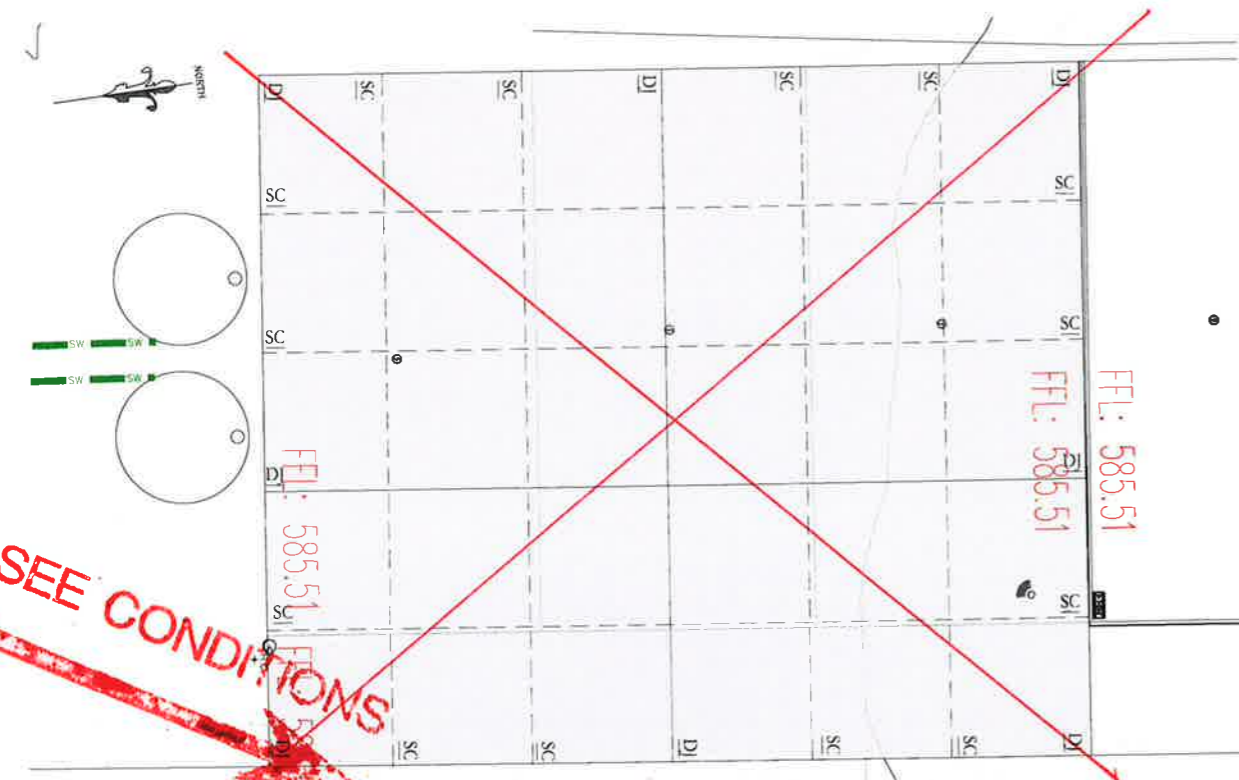
Issue Date	Description	By
08.07.2022	ORIGINAL ISSUE	AH
	Project T228765 Sheet No. 5 of 7	
	Digital Ref: T228765_RevA.dwg Issue: A	

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**EASTERN EXTENSIONS PAVEMENT PLAN**

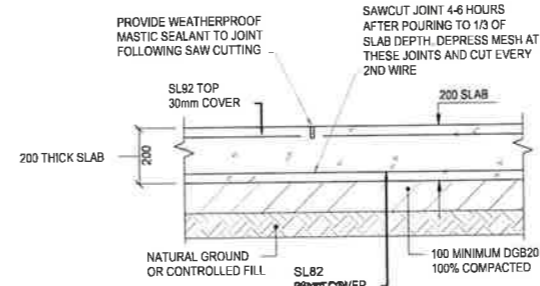
SCALE 1:100 (A1)



~~**WESTERN EXTENSIONS PAVEMENT PLAN**~~

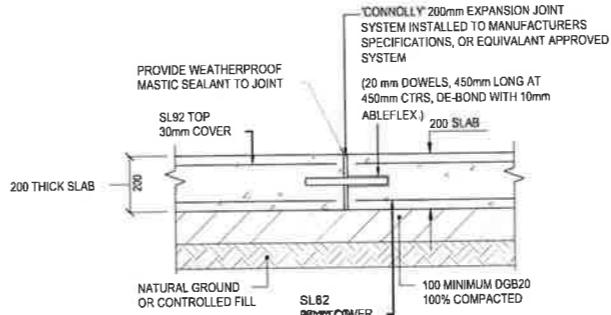
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**SEPARATE CONSENT REQUIRED FOR EXTENSION**



**TYPICAL SAW-CUT JOINT (SC)**

SCALE - NTS



**TYPICAL DOWEL JOINT (DJ)**

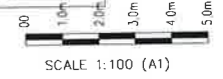
SCALE - NTS

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 Council Officer: *[Signature]*  
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**LEGEND OF SYMBOLS & LINETYPES**

- PROPOSED SILT FENCE:
- PROPOSED DROP INLET SEDIMENT TRAP:
- PROPOSED STRAW BALE SEDIMENT FILTER:
- PROPOSED STORMWATER NETWORK:
- TEMPORARY SILT COLLECTION AREA:

**INVERELL SHIRE COUNCIL**  
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 Council Officer: *[Signature]*



SCALE 1:100 (A1)  
 CONTOURS: MAJOR: 1.0m, MINOR: 0.25m

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**KELLEY COVEY**  
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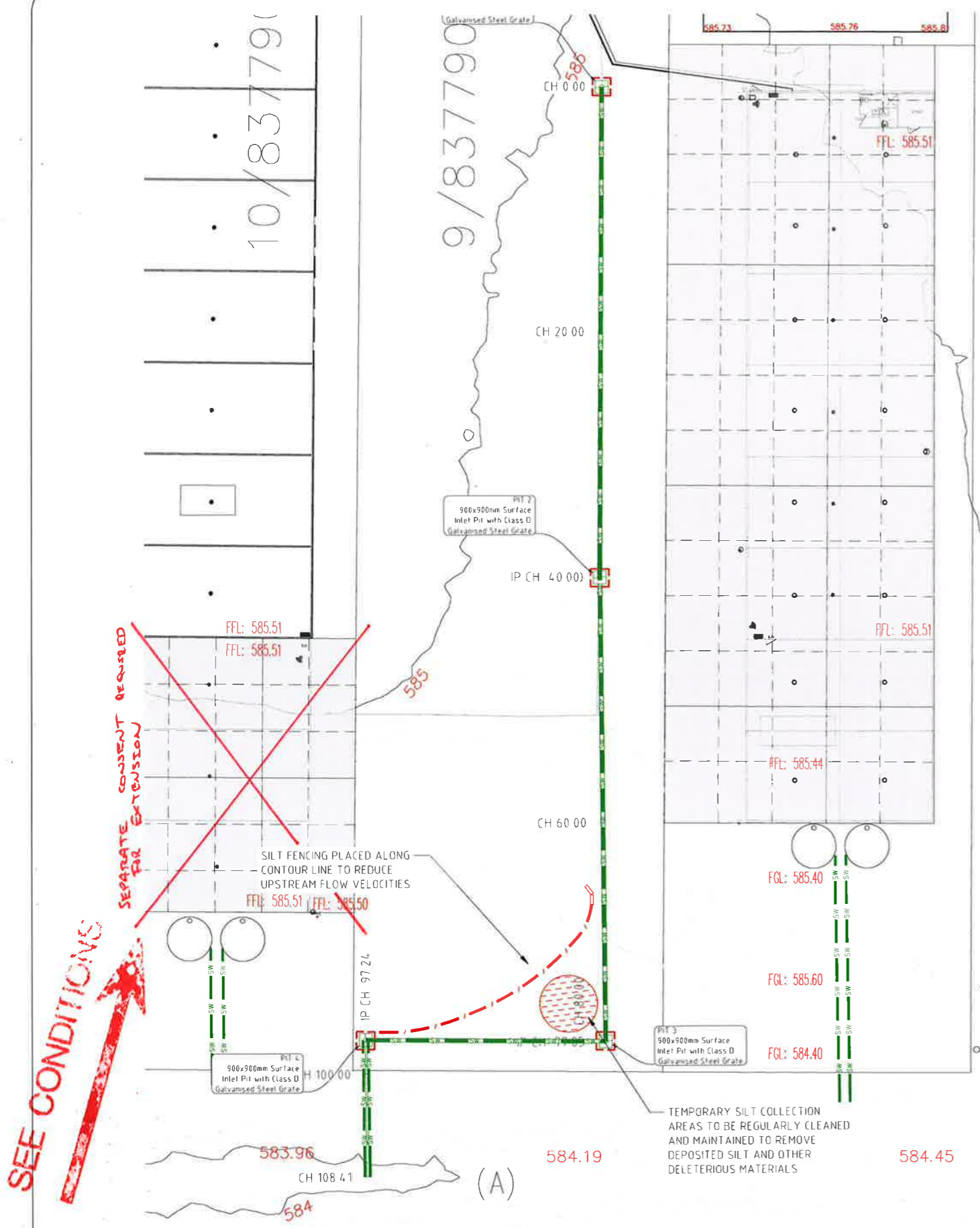
Project - **PROPOSED EXTENSIONS INVERELL BUS SERVICE**  
 Client - **CAVANAGH**

Site - **23-27 BRISETT STREET INVERELL, NSW 2360**

Drawing title - **PAVEMENT JOINTS PLAN**

Issue Date	Description	By
A 08.07.2022	ORIGINAL ISSUE	AH
Project T228765	Sheet No. 6 of 7	
Digital Ref: T228765_RevA.dwg	Issue: A	

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**EROSION AND SEDIMENT CONTROL PLAN**

SCALE 1:200 (A1)

**EROSION & SEDIMENTATION CONTROL**

DUST NUISANCE MUST BE CONTROLLED BY REGULARLY WATERING HAUL ROADS, ACCESS TRACKS AND CONSTRUCTION AREAS.

ALL DIVERSION BANKS, SILT TRAPS AND SEDIMENT DRAINS SHOWN ON THIS PLAN ARE TO BE CONSTRUCTED PRIOR TO THE REMOVAL OF TOPSOIL AND MAINTAINED FOR THE DURATION OF THE WORKS AND UNTIL SUFFICIENT VEGETATION COVER IS ACHIEVED.

SEDIMENT AND EROSION CONTROL FACILITIES ARE TO BE PROVIDED IN ACCORDANCE WITH DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT, REFER PUBLICATION "URBAN EROSION AND SEDIMENT CONTROL" FOR DETAILS.

THE CONTRACTOR IS TO MINIMISE THE THE AREA OF SOIL EXPOSURE. WHERE REQUIRED, TOPSOIL IS TO BE STOCKPILED CLEAR OF WATER COURSES OR FLOW PATHS.

SITE FILLED AREAS ARE TO BE TOPSOILED AND REVEGETATED WITHIN FIFTEEN (15) WORKING DAYS OF FINAL SHAPING.

TEMPORARY DIVERSION DRAINS ARE TO BE PROVIDED AT APPROX 2% GRADE ON FILL AREAS AT THE COMPLETION OF DAILY OPERATIONS, THE DRAINS ARE TO EXTEND TO UNDISTURBED AREAS WITH STRAW BALES OR GEOFABRIC BARRIER AT THE DOWNSTREAM END.

SEDIMENT CONTROL STRUCTURES ARE TO BE MAINTAINED AT ALL TIMES AND CLEANED AS REQUIRED.

TURF LINING OF CHANNELS AND SWALES TO BE COMPLETED AS SOON AS PRACTICABLE FOLLOWING CONSTRUCTION OF CHANNEL PROFILES SO AS TO MINIMISE POTENTIAL FOR EROSION AND SCOUR.

STRAW BALES AND SEDIMENT FENCING IN CHANNELS TO BE INSTALLED IMMEDIATELY FOLLOWING CONSTRUCTION OF CHANNEL PROFILES AND RE-INSTATED FOLLOWING INSTALLATION OF TURF LINING.

SHOULD WORKS BE STOPPED FOR A PERIOD EXPECTED TO EXCEED TWO MONTHS, TEMPORARY REHABILITATION OF EXPOSED SOILS IS TO BE UNDERTAKEN.

**LEGEND OF SYMBOLS & LINETYPES**

- PROPOSED SILT FENCE: - - - - -
- PROPOSED DROP INLET SEDIMENT TRAP: [Symbol]
- PROPOSED STRAW BALE SEDIMENT FILTER: [Symbol]
- PROPOSED STORMWATER NETWORK: [Symbol]
- TEMPORARY SILT COLLECTION AREA: [Symbol]

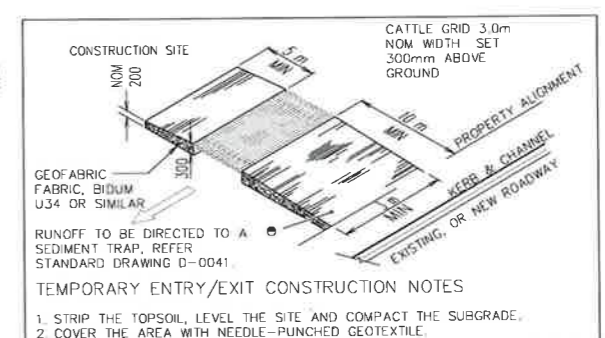
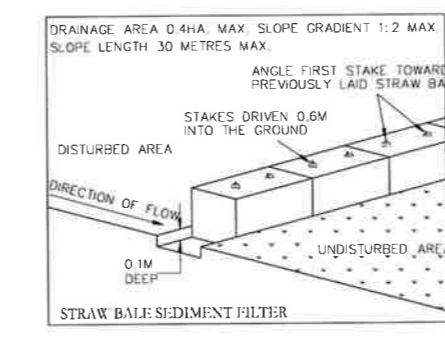
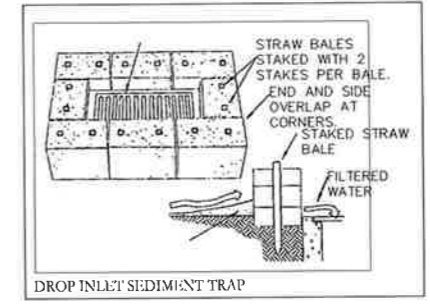
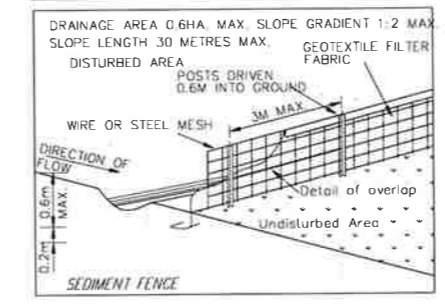
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Date: **18 January 2023**

Council Officer: [Signature]

**SEDIMENT CONTROL DETAILS**



- TEMPORARY ENTRY/EXIT CONSTRUCTION NOTES**
- STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
  - COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
  - CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
  - ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
  - WHERE SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP OR GRATE IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

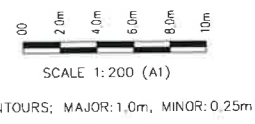
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Design - AH	Drawn - AH
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**KELLEY COVEY GROUP PTY LTD**

Consulting Civil, Structural and Environmental Engineers  
Project Management, Planning and Landscape Architecture

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ABN 3708 1081 800

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**MANAGER:**  
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Project - **PROPOSED EXTENSIONS  
INVERELL BUS SERVICE**

Client - **CAVANAGH**

Site - **23-27 BRISETT STREET  
INVERELL, NSW 2360**

Drawing title - **EROSION AND SEDIMENT CONTROL  
PLAN**

Issue Date	Description	By
A 08.07.2022	ORIGINAL ISSUE	AH
Project	1228765	Sheet No. 7 of 7
Digital Ref:	T228765_RevA.dwg	Issue: A

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