

Planning Agreement

China Oriental Investment Pty Ltd ABN 30 617 023 891 ATF
China Oriental Investment Denman Trust

Muswellbrook Shire Council
ABN 86 864 180 944

THIS PLANNING AGREEMENT is made on

2026

BETWEEN:

- (1) **China Oriental Investment Pty Ltd (ABN 30 617 023 891) ATF China Oriental Investment Denman Trust** of Suite 1201, Tower 1, 495 Victoria Avenue, Chatswood NSW 2067 ("**Developer**"); and
 - (2) **Muswellbrook Shire Council (ABN 86 864 180 944)** of 60-82 Bridge St, Muswellbrook NSW 2333 (the "**Council**")
- (collectively, the "**Parties**")

INTRODUCTION

- (A) The Developer owns the Land and has been granted the Development Consent.
- (B) Pursuant to the terms of the Development Consent, the Developer is required to pay certain monetary development contributions to the Council.
- (C) The Developer has agreed to carry out and provide the Works and, where appropriate, to dedicate the completed Works to the Council as a material public benefit anticipated by the terms of this Agreement.
- (D) Subject to the terms of this Agreement, Council has agreed to accept the completed Works in lieu of the monetary development contributions otherwise payable under the Development Consent

THE PARTIES AGREE AS FOLLOWS:

1. Interpretation

1.1 Definitions

The following definitions apply in this document.

Act means the *Environmental Planning and Assessment Act 1979* (NSW).

Agreement means this document and includes any variation or amendment to it agreed to by the Parties.

Business Day means a day other than a Saturday, Sunday or public holiday or bank holiday in New South Wales.

Development means the residential subdivision of the Land as anticipated by the Development Consent as modified.

Development Consent means development consent no. DA92/2022/2 issued by Council on 28 May 2024.

Development Contributions means the contributions to be provided by the Developer as development contributions under this Agreement and the Act as detailed in **Annexure A**.

Dispute Resolution Procedures means the procedures set out in **Annexure B**.

Explanatory Note means the note exhibited with a copy of this Agreement as prepared in accordance with cl.205 of the *Environmental Planning and Assessment Regulation 2021*

(NSW)**Government Authority** means any government or any governmental, semi-governmental, administrative, fiscal or judicial body, department, commission, authority, tribunal, agency or entity

(whether local, state or federal).

GST has the same meaning as in the GST Law.

GST Act means *A New Tax System (Goods and Services Tax) Act 1999* (Cth).

GST Law has the meaning given to that term in *A New Tax System (Goods and Services Tax) Act 1999* (Cth).

Land means the property known as 184 Almond Street, Denman being the land comprised in Lot 1 in Deposited Plan 616013.

Law means any constitution or provision, statute, act, regulation, rule, ordinance, proclamation, subordinate legislation, delegated legislation, by-law, judgment, rule of common law or equity, rule, Authorisation, consent or condition of Authorisation or consent imposed by a competent entity exercising statutory jurisdiction in the relevant matter.

Modification Application means the application to modify the Development Consent submitted to Council on 24 October 2025.

Subdivision Certificate has the same meaning as in the Act.

Works means the Almond Street civil road works (no allowance for stormwater works) to be carried out by the Developer as detailed in Annexure A

1.2 Interpretation

In this Agreement, headings and bold type are for convenience only and do not affect the interpretation of this Agreement and, unless the context otherwise requires:

- (a) words importing the singular include the plural and vice versa;
- (b) word importing a gender include any gender;
- (c) other parts of speech and grammatical forms of a word or phrase defined in this Agreement have a corresponding meaning;
- (d) an expression importing a natural person includes any company, partnership, joint venture, association, corporation or other body corporate and any Government Agency;
- (e) a reference to any thing (including any right) includes a part of that thing but nothing in this clause 1.2(e) implies that performance of part of an obligation constitutes performance of the obligation;
- (f) a reference to a clause, party, annexure, exhibit or schedule is a reference to a clause of, and a party, annexure, exhibit and schedule to, this Agreement and a reference to this Agreement includes any annexure, exhibit and schedule;
- (g) a reference to a statute, regulation, proclamation, ordinance or by-law includes all statutes, regulations, proclamations, ordinances or by-laws amending, consolidating or replacing it, whether passed by the same or another Government Agency with legal power to do so, and a reference to a statute includes all regulations, proclamations, ordinances and by-laws issued under that statute;
- (h) a reference to a document includes all amendments or supplements to, or replacements or novations of, that document;
- (i) a reference to a party to a document includes that party's successors and permitted assigns and, in the case of the Developer, includes any person who at any time owns all or part of the Land;

- (j) a covenant or agreement on the part of 2 or more persons binds them severally;
- (k) a reference to an agreement other than this Agreement includes an undertaking, agreement, agreement or legally enforceable arrangement or understanding whether or not in writing;
- (l) a reference to an asset includes all property of any nature, including a business, and all rights, revenues and benefits;
- (m) a reference to a document includes any agreement in writing, or any certificate, notice, instrument or other document of any kind; and
- (n) a reference to liquidation includes official management, appointment of an administrator, compromise, arrangement, merger, amalgamation, reconstruction, winding-up, dissolution, deregistration, assignment for the benefit of creditors, scheme, composition or arrangement with creditors, insolvency, bankruptcy, or any similar procedure or, where applicable, changes in the constitution of any partnership or person, or death.

1.3 Inclusive expressions

Specifying anything in this Agreement after the words "includes" or "for example" or similar expressions does not limit what else is included unless there is express wording to the contrary.

1.4 Business Day

Where the day on or by which anything is to be done is not a Business Day, that thing must be done on or by the next Business Day.

1.5 Contra preferentum

In the interpretation of this Agreement no rule of construction shall apply to disadvantage one party on the basis that that party put forward the particular covenant term or provision.

2. Planning Agreement under the Act

The Parties agree that this Agreement is a planning agreement, governed by Subdivision 2 of Division 7.1 of Part 7 of the Act.

3. Application of this Agreement

This Agreement applies to the Development and the Land.

4. Operation of this Agreement

This Agreement operates on and from the date it is made.

5. Development Contributions to be made under this Agreement

(a) The Developer must provide the Development Contributions in accordance with Annexure A.

(b) The Works must be commenced within 18 months of the execution of this Agreement. If the Works are not commenced within 18 months of the execution of this Agreement, Council may terminate this Agreement and the monetary contributions specified in the Development Consent will be payable in accordance with the terms of the Development Consent.

(c) The Works must be completed within 24 months from following the commencement of the Works. If the Works are not completed within 24 months following commencement of the Works, Council may terminate this Agreement and the monetary contributions specified in the Development Consent will be payable in accordance with the terms of the Development Consent.

(d) The nature and extent of the provisions of Works to be made under this Agreement are set

out in Annexure A.

6. Application of Section 7.11 and Section 7.12 of the Act to the Development

Subject to clauses 5(b) and (c), this Agreement excludes the applications of Sections 7.11 and 7.12 of the Act to the Development. If the Agreement is terminated for any reason, the Developer will pay the monetary contributions under the Development Consent

7. Registration of this Agreement

- (a) The Developer shall do all things reasonably necessary after the date of this Agreement to enable Council to obtain registration of this Agreement on the title to the Land and each part of the Land under Section 7.6 of the Act by the Registrar-General such that on registration of this Agreement, the Registrar-General will have made an entry in the relevant folio of the register kept under the *Real Property Act, 1900* (NSW) in relation to the Land and each part of the Land.
- (b) On the date on which this Agreement is made, the Developer shall deliver to Council all necessary documents in registrable form together with applicable registration and PEXA fees to enable Council to lodge those documents at New South Wales Land Registry Services and obtain registration of this Agreement.
- (c) Subject to the other terms of this Agreement, within 20 Business Days after the date of issue of the final Subdivision Certificate in respect of the Development, Council will execute and provide to the Developer such documents as are reasonably required to remove notation of registration of this Agreement from the title to the Land.
- (d) The Developer will provide Council with all documents required to be executed by Council under clause 7(c) at the time that the Developer lodges an application for the final Subdivision Certificate in respect of the Development with Council.

8. Precondition to Issue of Subdivision Certificate

The Developer must complete all the Works prior to making any application for a Subdivision Certificate in respect of the Development or any part of the Development or Land.

9. Review of this Agreement

- (a) The Parties agree that from time to time, it may become necessary to review this Agreement, but any amendment to this Agreement shall only be effective in writing and signed by all Parties and registered under Section 7.6 of the Act.
- (b) If a Party requires a review, it shall request the other Party to participate in a review and the review shall be undertaken accordingly. If both parties agree to a review, any such review will be conducted in the circumstances and in the manner determined by the Parties. Any amendment to the Agreement must be accepted by both parties in writing.

10. Dispute Resolution

In the event that Council and the Developer cannot agree in relation to any matter relating to this Agreement, then Council or the Developer may give notice and particulars of such matter the subject of the failure to agree to the other and may require that the matter be resolved by the Dispute Resolution Procedures. Neither this clause nor the Dispute Resolution Procedures shall apply to either the Developer's principal obligation to carry out the Works nor the Developer's obligations in relation to the registration of this Agreement on the title to the Land.

11. Notices

- (a) Any notice or other communication, including any request, demand, consent or approval, to or by a Party to this Agreement:
 - (i) must be in legible writing and in English addressed as shown at the commencement of this Agreement or as specified to the sender by any Party by notice;
 - (ii) must be signed by the sender (if a natural person) or an officer or under the common seal of the sender (if a corporation);
 - (iii) is regarded as being given by the sender and received by the addressee:
 - (A) if by delivery in person, when delivered to the addressee;
 - (B) if by post, 5 Business Days from and including the date of postage; or
 - (C) if by email, when transmitted to the relevant email address, but if the delivery or receipt is on a day which is not a Business Day or is after 4pm (addressee's time) it is regarded as received at 9am on the following Business Day; and
 - (iv) can be relied upon by the addressee and the addressee is not liable to any other person for any consequences of that reliance if the addressee believes it to be genuine, correct and authorised by the sender.
- (b) In this clause 11, a reference to an addressee includes a reference to an addressee's officers, agents or employees.

12. Approvals and non-fetter

- (a) This Agreement is not intended to operate to fetter, in any manner, the exercise of any statutory power or discretion of the Council, including, but not limited to, any statutory power or discretion of the Council relating to the Development or any application for development consent or any modification to an approval or consent (all referred to in this Agreement as a "**Discretion**").
- (b) No provision of this Agreement is intended to constitute any fetter on the exercise of any Discretion. If, contrary to the operation of this clause 12, any provision of this Agreement is held by a court of competent jurisdiction to constitute a fetter on any Discretion, the Parties agree:
 - (i) They will take all practical steps, including the execution of any further documents, to ensure the objective of this clause is substantially satisfied, and
 - (ii) In the event that (i) cannot be achieved without giving rise to a fetter on the exercise of a Discretion, the relevant provision is to be severed and the remainder of this Agreement has full force and effect.

13. Assignment and Dealings

- (a) Rights arising out of or under this Agreement are not assignable by one Party without the prior written consent of the other Party
- (b) A Party must not unreasonably withhold its consent.
- (c) It will be reasonable for the Council to withhold its consent to any proposed assignment by the Developer unless the proposed assignee of the Developer's interest:

The fact that a Party fails to do, or delays in doing, something the Party is entitled to do under this Agreement, does not amount to a waiver of any obligation of, or breach of obligation by, another Party. A written waiver by a Party is only effective in relation to the particular obligation or breach in respect of which it is given. It is not to be taken as an implied waiver of any other obligation or breach or as an implied waiver of that obligation or breach in relation to any other occasion.

EXECUTED as an agreement.

EXECUTED for and on behalf of **China Oriental Investment Pty Ltd (ACN 617 023 891) ATF China Oriental Investment Denman Trust** pursuant to s 127 of the *Corporations Act 2001* (Cth):

签署人：



0CD49B279889405...

Signature of director

LI HAN

Name of director

签署人：



F4ACDC900AF9460...

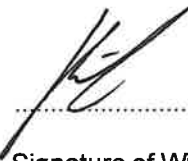
Signature of director/secretary

Rongzhen Zhao

Name of signatory

Signed for and on behalf of **MUSWELLBROOK SHIRE COUNCIL** ABN 86 864 180 944 by its authorised delegate under section 377 of the *Local Government Act 1993* in the presence of:

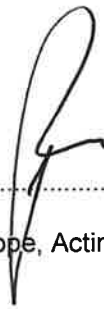
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)
)
)
)
)
)



Signature of Witness

Hamish McTaggart

Print name of Witness



Sharon Pope, Acting General Manager

(10.8.2026)

- (i) is proposed to accept the whole of the Developer's interest under this Agreement;
- (ii) Is proposed to become the registered proprietor of the whole of the Land.; and
- (iii) Is demonstrated by the Developer to be a solvent and reputable person with sufficient resources and experience to enable it to complete the Works and to otherwise carry out the Developer's obligations under this Agreement.

14. Costs

Each Party is to pay its own costs associated with the preparation and registration of this Agreement.

15. Entire Agreement

This Agreement contains everything to which the Parties have agreed in relation to the matters it deals with. No Party can rely on an earlier document, the Explanatory Note, anything said or done by another Party, or by an Authorised Officer, agent or employee of that Party, before this Agreement was executed, except as permitted by law.

16. Further Acts

Each Party must promptly execute all documents and do all things that another Party from time-to-time reasonably requests to affect, perfect or complete this Agreement and all transactions incidental to it.

17. Governing Law and Jurisdiction

This Agreement is governed by the law of New South Wales. The Parties submit to the non-exclusive jurisdiction of its courts and courts of appeal from them. The Parties will not object to the exercise of jurisdiction by those courts on any basis.

18. Joint and Individual Liability and Benefits

Except as otherwise set out in this Agreement, any agreement, covenant, representation or warranty under this Agreement by two or more persons binds them jointly and each of them individually, and any benefit in favour of two or more persons is for the benefit of them jointly and each of them individually.

19. Representations and warranties

The Parties represent and warrant that they have power to enter into this Agreement and comply with their obligations under the Agreement and that entry into this Agreement will not result in the breach of any law.

20. Severability

If a clause or part of a clause of this Agreement can be read in a way that makes it illegal, unenforceable or invalid, but can also be read in a way that makes it legal, enforceable and valid, it must be read in the latter way. If any clause or part of a clause is illegal, unenforceable or invalid, that clause or part is to be treated as removed from this Agreement, but the rest of the Agreement is not affected.

21. Modification

No modification of this Agreement will be of any force or effect unless it is in writing and signed by the Parties to this Agreement.

22. Waiver

Annexure A

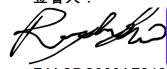
Development Contributions

签署人：



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签署人：



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Signed by:

Sharon Pope

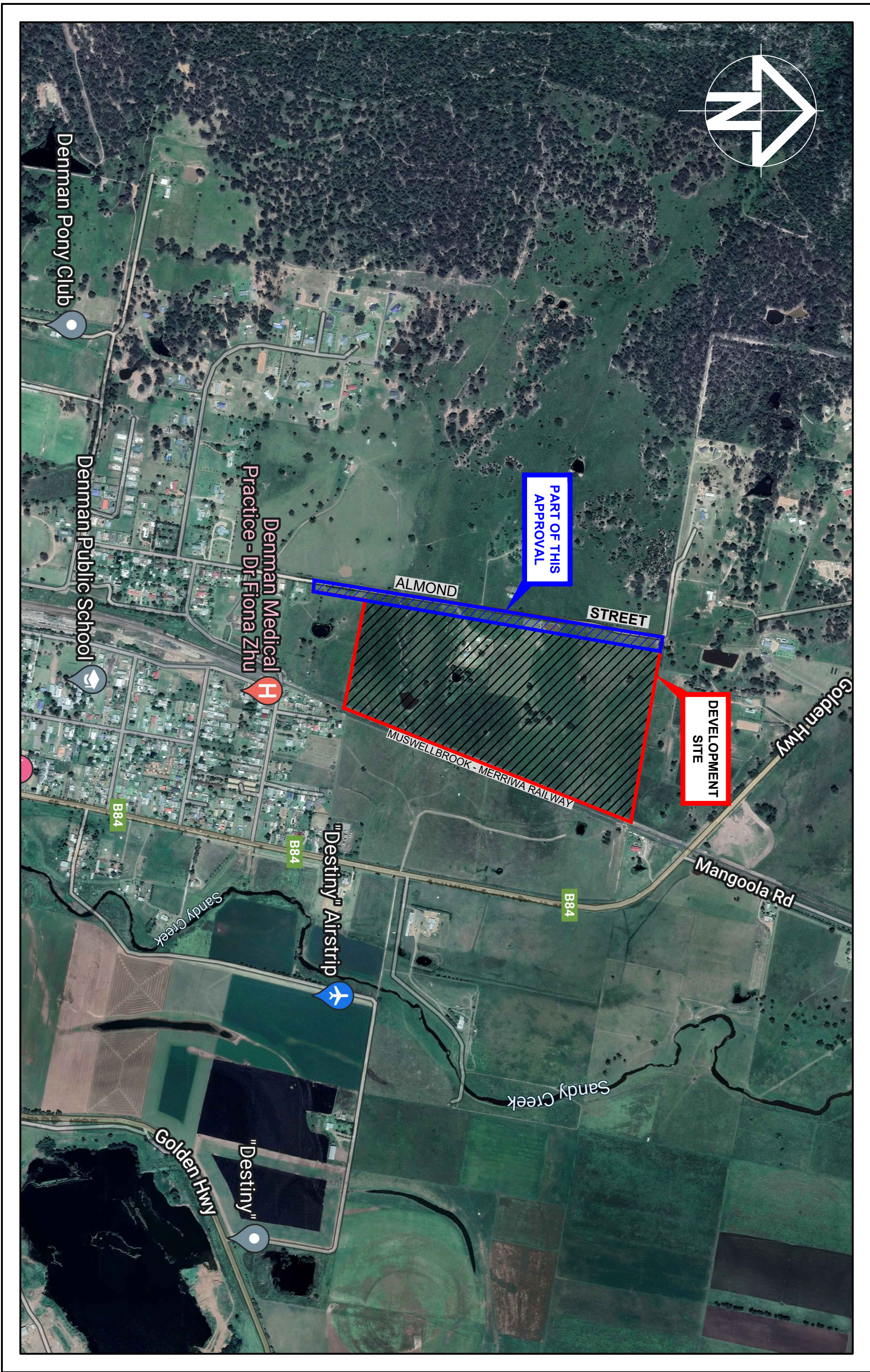
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PROPOSED RESIDENTIAL SUBDIVISION

ALMOND STREET, DENMAN

VOLUNTARY PLANNING AGREEMENT

ISSUED FOR VOLUNTARY PLANNING AGREEMENT



CLIENT: CHINA ORIENTAL

INVESTMENT DOMAIN TRUST

LOCALITY PLAN

N.T.S

LOT 1 D.P.616013

DA 2022/92



PROPOSED RESIDENTIAL SUBDIVISION

ALMOND STREET, DENMAN

CIVIL ENGINEERING PLANS

PROJECT No.: 22048

STAGE: 1

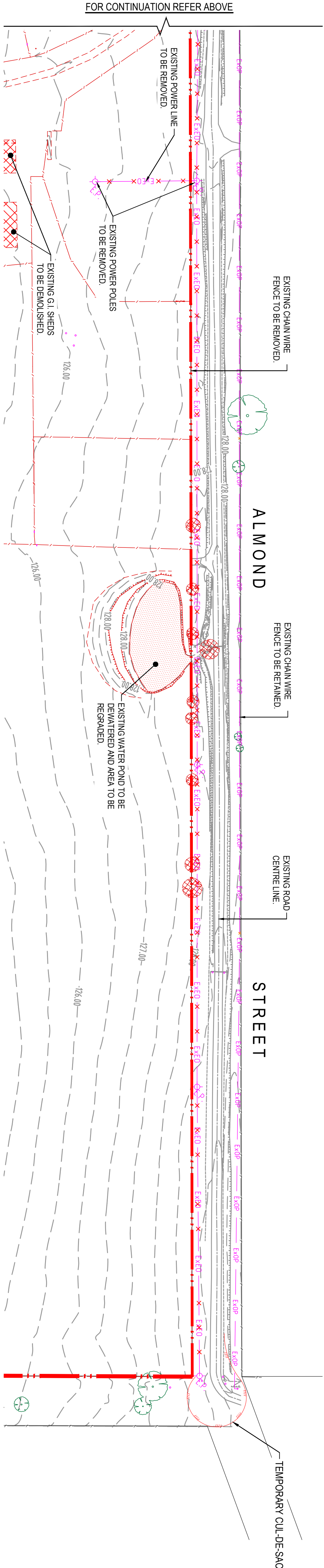
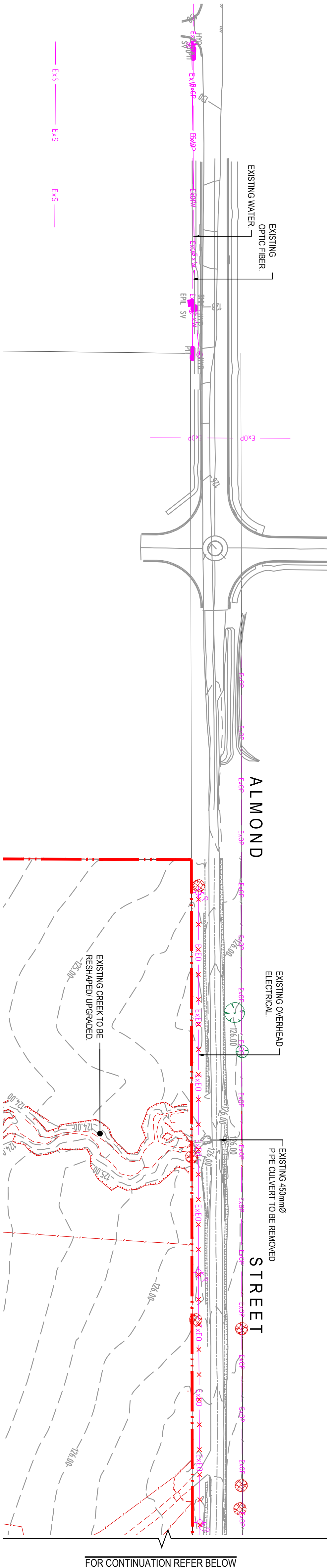
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REVISION DATE: 28/05/2026

DRAWING No.: 000

REVISION: A

DRAWING LIST	
No.	SHEET TITLE
GENERAL	
000	COVER SHEET
001	GENERAL NOTES
002	EXISTING SERVICES AND DEMOLITION PLAN
EROSION AND SEDIMENT CONTROL	
100	EROSION AND SEDIMENT CONTROL PLAN
110	EROSION AND SEDIMENT CONTROL DETAILS
EARTHWORKS	
200	BULK EARTHWORKS PLAN SHEET 1
ENGINEERING PLANS	
300	ENGINEERING PLAN AND DETAILS SHEET 1
301	ENGINEERING PLAN AND DETAILS SHEET 2
ROADS SECTIONS	
400	ALMOND STREET LONGITUDINAL AND TYPICAL CROSS SECTION SHEET 1
401	ALMOND STREET LONGITUDINAL AND TYPICAL CROSS SECTION SHEET 2
402	ALMOND STREET LONGITUDINAL AND TYPICAL CROSS SECTION SHEET 3
420	ALMOND STREET CROSS SECTIONS SHEET 1
421	ALMOND STREET CROSS SECTIONS SHEET 2
422	ALMOND STREET CROSS SECTIONS SHEET 3
423	ALMOND STREET CROSS SECTIONS SHEET 4
424	ALMOND STREET CROSS SECTIONS SHEET 5
425	ALMOND STREET CROSS SECTIONS SHEET 6
426	ALMOND STREET CROSS SECTIONS SHEET 7
427	ALMOND STREET CROSS SECTIONS SHEET 8
428	ALMOND STREET CROSS SECTIONS SHEET 9
INTERSECTION	
500	INTERSECTION & KERB RETURN DETAILS SHEET 1
501	INTERSECTION & KERB RETURN DETAILS SHEET 2
502	INTERSECTION & KERB RETURN DETAILS SHEET 3
503	INTERSECTION & KERB RETURN DETAILS SHEET 4
504	INTERSECTION & KERB RETURN DETAILS SHEET 5
505	INTERSECTION & KERB RETURN DETAILS SHEET 6
506	INTERSECTION & KERB RETURN DETAILS SHEET 7
STORMWATER	
600	STORMWATER CATCHMENT PLAN
610	STORMWATER LONGITUDINAL SECTIONS SHEET 1
611	STORMWATER LONGITUDINAL SECTIONS SHEET 2
612	STORMWATER LONGITUDINAL SECTIONS SHEET 3
613	STORMWATER LONGITUDINAL SECTIONS SHEET 4
INTERSECTION	
500	INTERSECTION & KERB RETURN DETAILS SHEET 1
501	INTERSECTION & KERB RETURN DETAILS SHEET 2
502	INTERSECTION & KERB RETURN DETAILS SHEET 3
503	INTERSECTION & KERB RETURN DETAILS SHEET 4
504	INTERSECTION & KERB RETURN DETAILS SHEET 5
505	INTERSECTION & KERB RETURN DETAILS SHEET 6
506	INTERSECTION & KERB RETURN DETAILS SHEET 7
MISCELLANEOUS ROADWORKS PLANS	
700	SIGNAGE AND LINEMARKING PLAN SHEET 1
701	SIGNAGE AND LINEMARKING PLAN SHEET 2
702	ROUNDABOUT DETAILS
705	BUS SHELTER PLAN
710	PAVEMENT PLAN
720	SWEEP PATH PLAN SHEET 1
721	SWEEP PATH PLAN SHEET 2
722	SWEEP PATH PLAN SHEET 3
723	SWEEP PATH PLAN SHEET 4
724	SWEEP PATH PLAN SHEET 5
725	SWEEP PATH PLAN SHEET 6
726	SWEEP PATH PLAN SHEET 7
727	SWEEP PATH PLAN SHEET 8
728	SWEEP PATH PLAN SHEET 9
740	MISCELLANEOUS DETAILS SHEET 1
741	MISCELLANEOUS DETAILS SHEET 2
742	MISCELLANEOUS DETAILS SHEET 3



- LEGEND**
- EXISTING LOT BOUNDARY
 - EXISTING CONTOUR
 - EXISTING KERB & GUTTER
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING OPTIC FIBER
 - EXISTING CHAIN WIRE FENCE TO BE REMOVED
 - EXISTING CHAIN WIRE FENCE TO BE RETAINED
 - EXISTING STRUCTURE TO BE DEMOLISHED
 - EXISTING TREE TO BE REMOVED
 - EXISTING TREE TO BE RETAINED

DEMOLITION AND REMOVAL

ALL ITEMS THAT ARE TO BE REMOVED/DEMOLISHED ARE TO BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL RELEVANT COUNCIL DETAILS AND SPECIFICATIONS.

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

ALMOND STREET



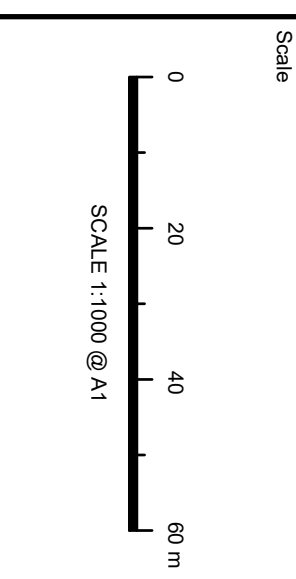
Zero Damage - Zero Harm

Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.L.B.	J.A.B.

Prepared by: Mr. James
B.E., M.E. (Reg.), P.D., F.E. Austral., CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

Council
muswellbrook
shire council

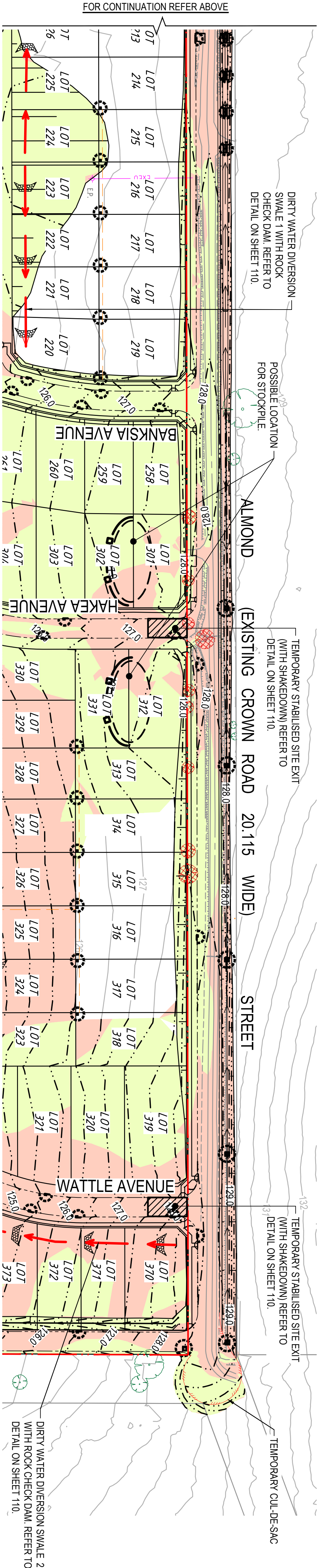
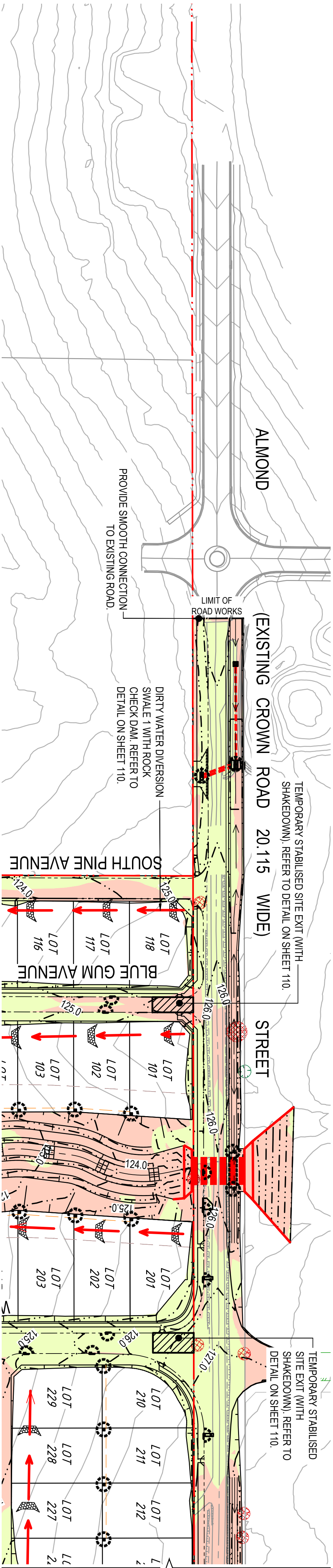
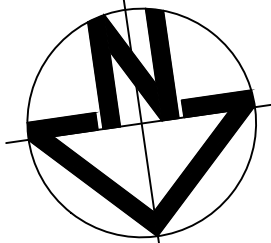


TELFORD
civil
CONSULTING CIVIL & STORMWATER ENGINEERS

Level 14, 32 Smith Street, Enrol : info@telfordcivil.com.au
Parramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Scale	Project No.	Dwg No.	Issue
1:1000	22048	002	A



LEGEND

- PROPOSED SUBDIVISION
LOT BOUNDARY
PROPOSED INVERT OF KERB
PROPOSED FINISHED CONTOURS
PROPOSED DESIGN CONTOURS
PROPOSED EDGE OF BITUMEN
TEMPORARY SEDIMENT AND DIVERSION FENCE REFER TO DETAIL ON SHEET 110
PROPOSED ACOUSTIC FENCE
DIRTY WATER DIVERSION SWALE
CLEAN WATER DIVERSION SWALE
PROPOSED EASEMENT TO DRAIN WATER
PROPOSED BUFFER APZ
PROPOSED KERB INLET PIT
PROPOSED SAG PIT
INTERALLOTMENT DRAINAGE PIT
PROPOSED HEADWALL OUTLET
- ROCK CHECK DAM
TEMPORARY FIELD INLET TRAP REFER TO DETAIL ON SHEET 110
TEMPORARY INLET PROTECT FOR GULLY SAG REFER TO DETAIL ON SHEET 110
TEMPORARY STABILISED SITE EXIT (WITH SHAKEDOWN) REFER TO DETAIL ON SHEET 110
EXISTING LOT BOUNDARY
DENOTES FILL AREA
DENOTES CUT AREA
PROPOSED HAY BALES
- NOTE:
ALL DISTURBED BATTERS ALONG ALMOND ST AND ACOUSTIC MOUNDS TO BE STABILISED WITH FILL, JUTE MESH AND GRASS SEEDING IN ADDITION TO ANY LANDSCAPING REQUIREMENTS.
- NOTE:
CONTRACTOR TO DESIGN FINAL SEDIMENT AND EROSION CONTROL PLAN IN CONSULTATION WITH THE ENGINEER CONSULTANT TO DETERMINE FINAL REQUIREMENTS INCLUDING PIPE SIZING (DEPENDANT ON CONSTRUCTION METHODOLOGY).

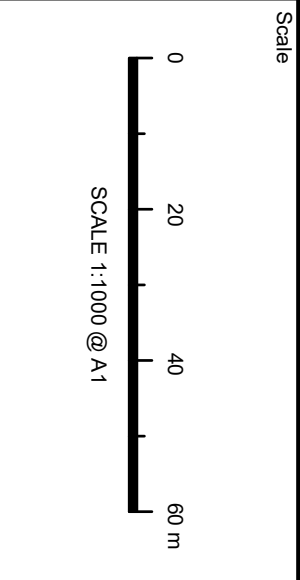


Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.J.B.	J.A.B.

Prepared by: Mr. Mark Raza
B.E., M.E. (Res), Ph.D., F.I.E. (Asst.), CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

Council
muswellbrook
shire council

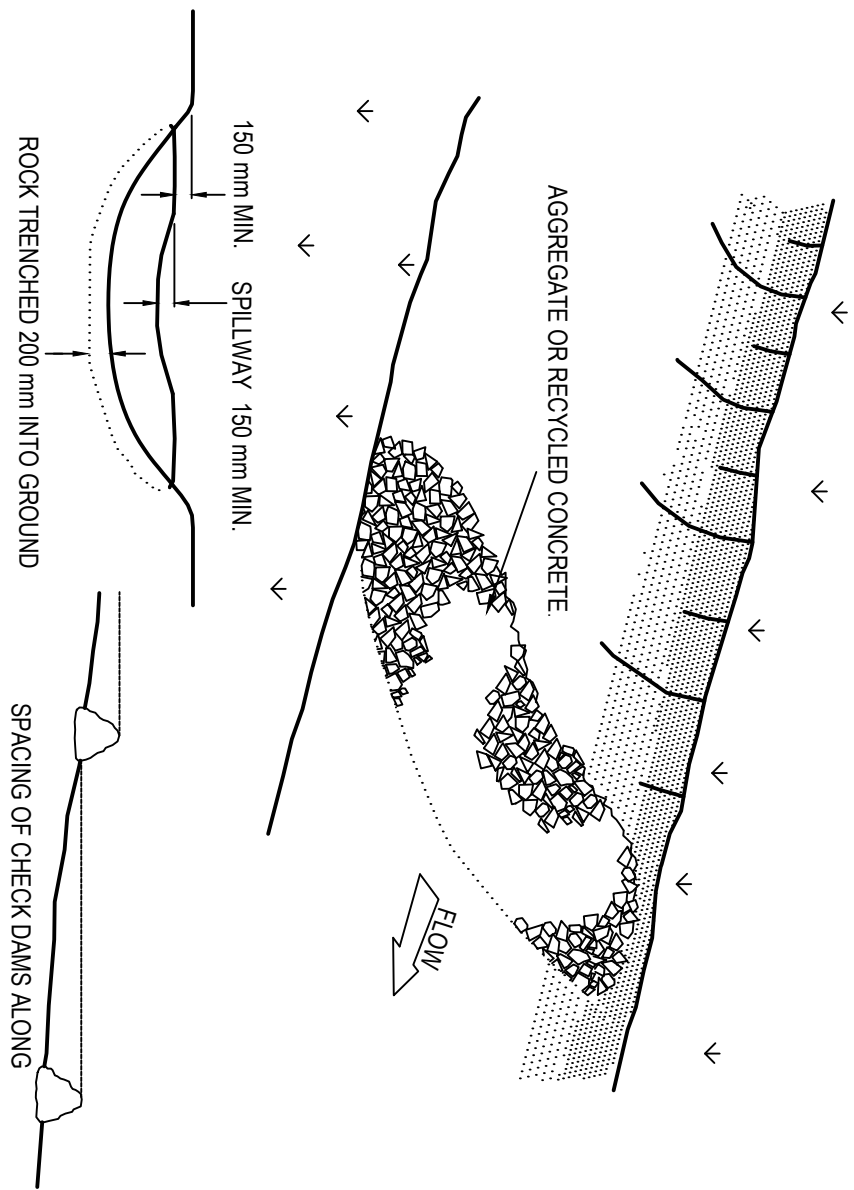


TELFORD
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PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

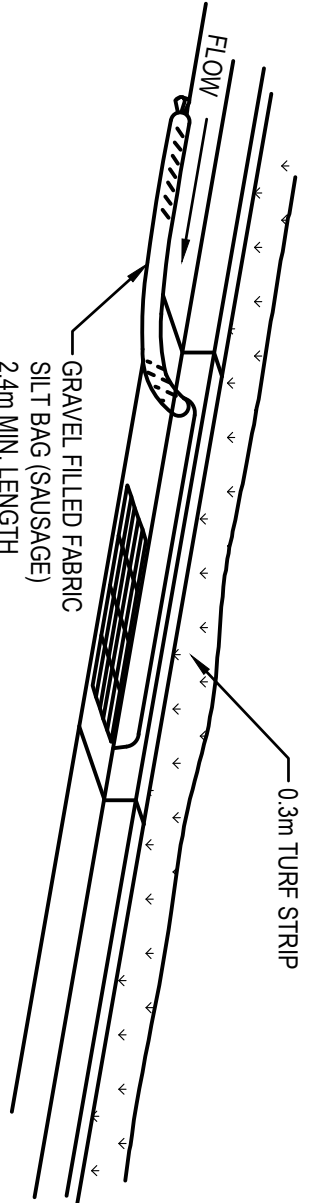
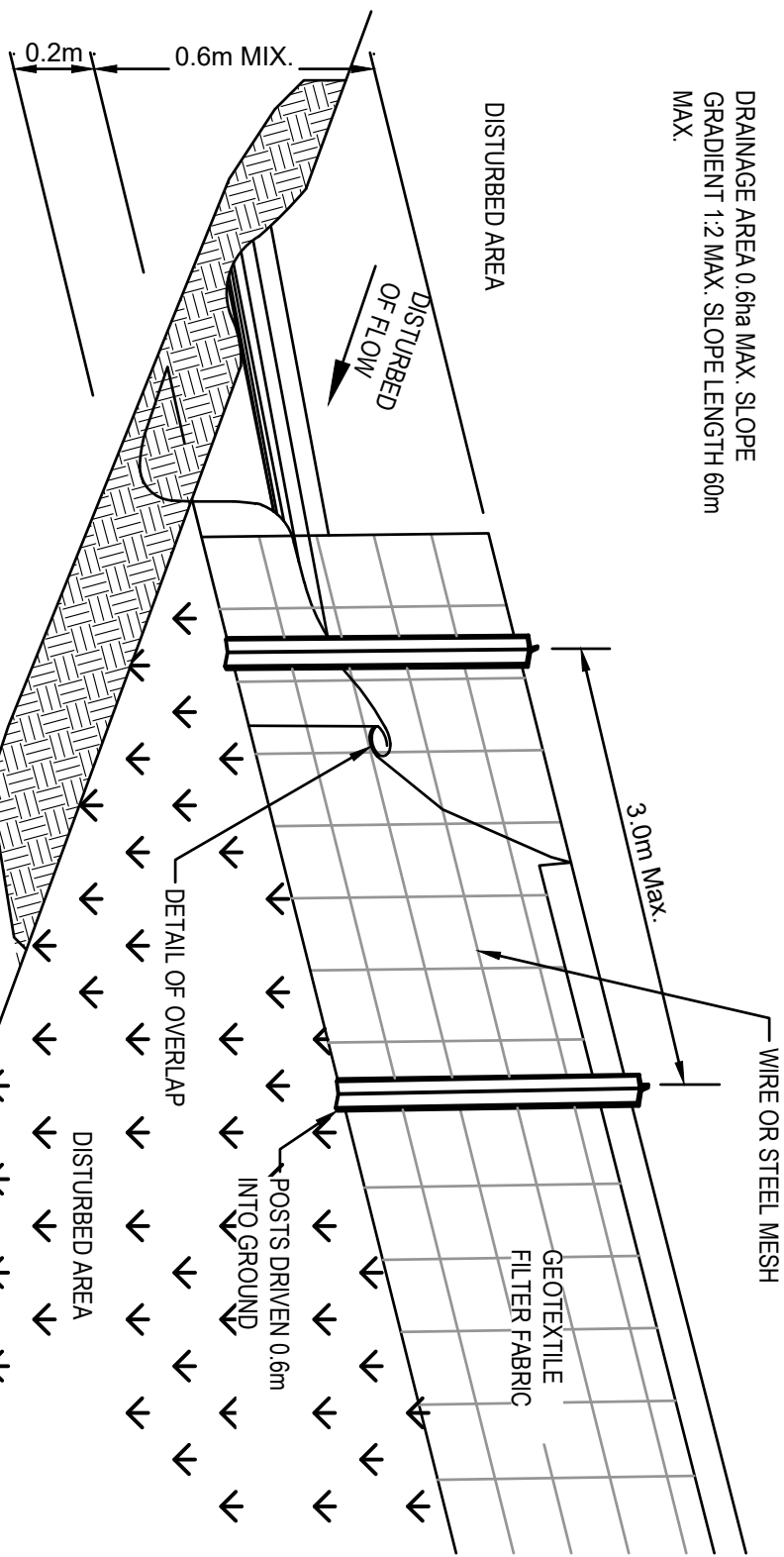
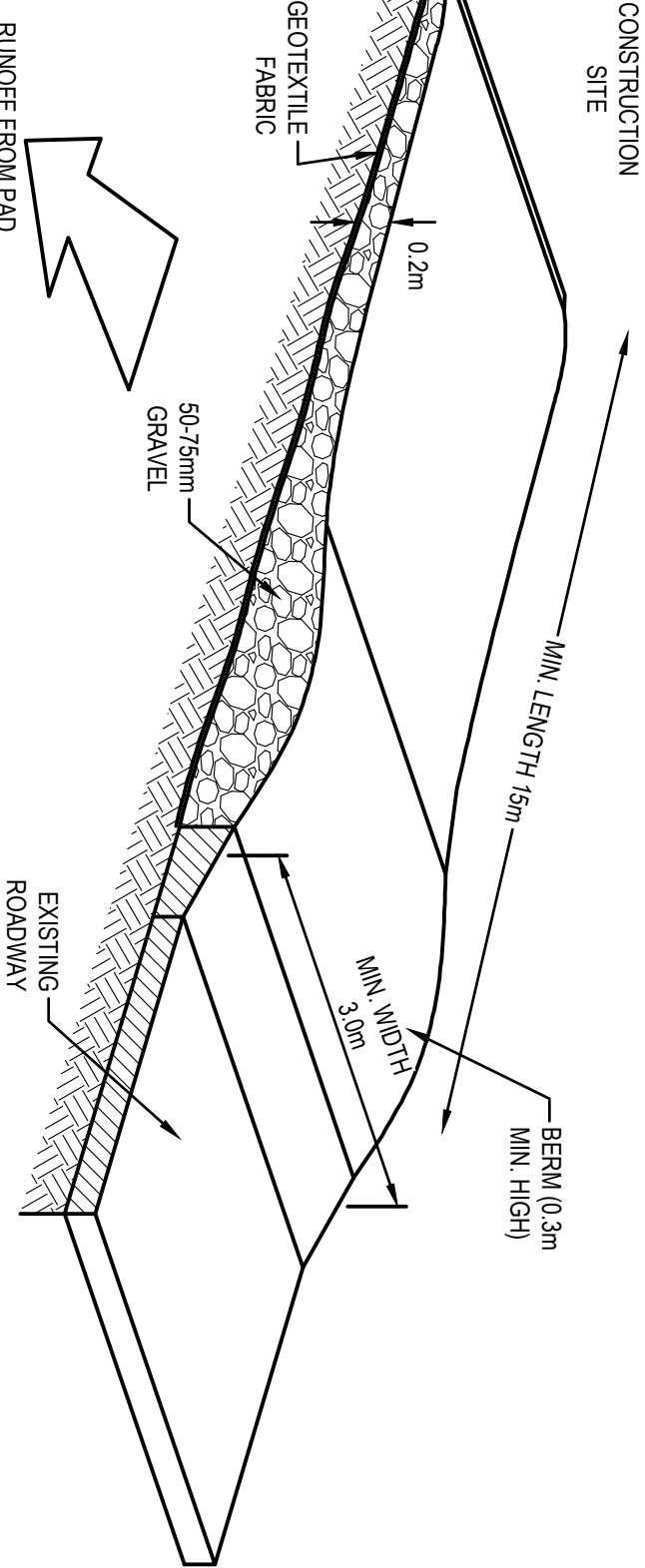
Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Scale	1:1000	Project No.	22048	Dwg No.	100	Issue	A
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akaron poppe



ROCK TRENCHED 200 mm INTO GROUND

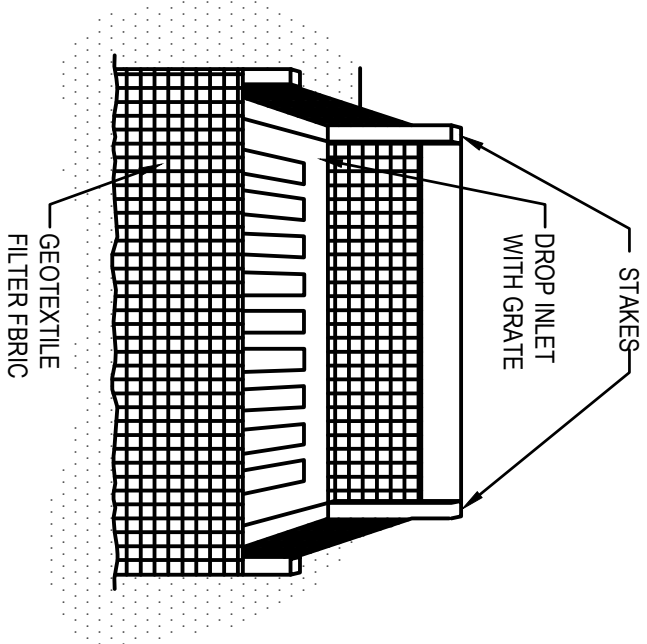
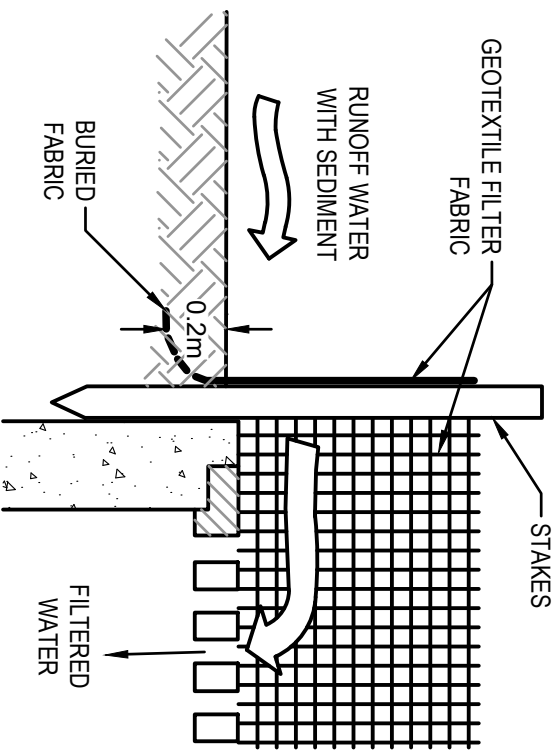


CONSTRUCTION NOTES:

- CHECK DAMS CAN BE BUILT WITH VARIOUS MATERIALS INCLUDING ROCKS, LOGS, SANDBAGS AND STRAW BALES. THE MAINTENANCE PROGRAM SHOULD ENSURE THEIR INTEGRITY IS RETAINED ESPECIALLY WHERE CONSTRUCTED WITH STRAW BALES. IN THE CASE OF BALES, THIS MIGHT REQUIRE THEIR REPLACEMENT EACH TWO TO FOUR MONTHS.
- TRENCH THE CHECK DAM 200 mm INTO THE GROUND ACROSS ITS WHOLE WIDTH. WHERE ROCKS IS USED, FILL THE TRENCHES TO AT LEAST 100 mm ABOVE THE GROUND SURFACE TO REDUCE THE RISK OF UNDERCUTTING.
- NORMALLY, THEIR MAXIMUM HEIGHT SHOULD NOT EXCEED 800 mm ABOVE THE GULLY FLOOR. THE CENTRE SHOULD ACT AS A SPILLWAY, BEING AT LEAST 150 mm LOWER THAN THE OUTER EDGES.
- SPACE THE DAMS SO THE TOE OF THE UPSTREAM DAM IS LEVEL WITH THE SPILLWAY OF THE NEXT DOWNSTREAM DAM.

ROCK CHECK DAM

SCALE N.T.S.

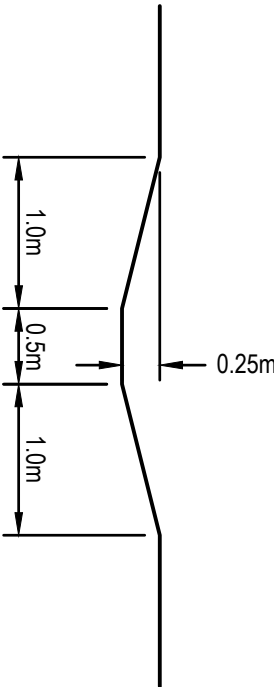


GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP

SCALE N.T.S.

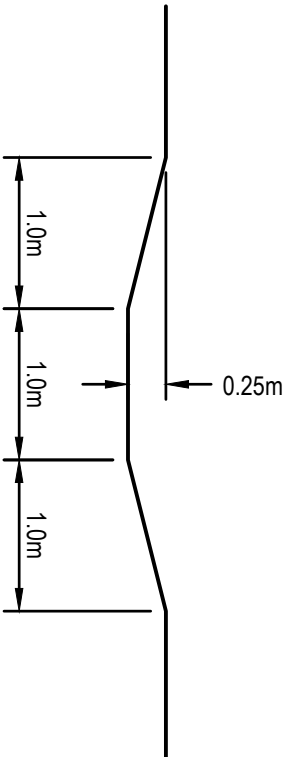
DIRTY WATER SWALE 1 TYPICAL SECTION

SCALE N.T.S.



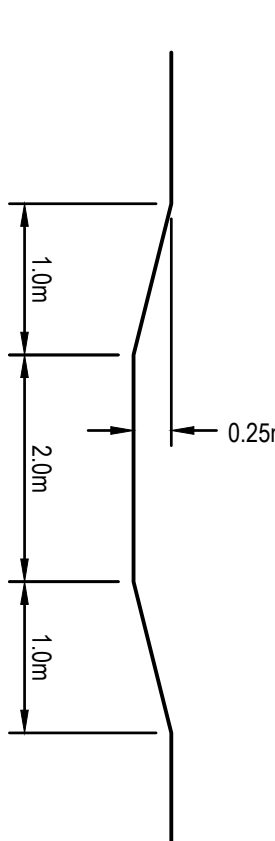
DIRTY WATER SWALE 2 TYPICAL SECTION

SCALE N.T.S.



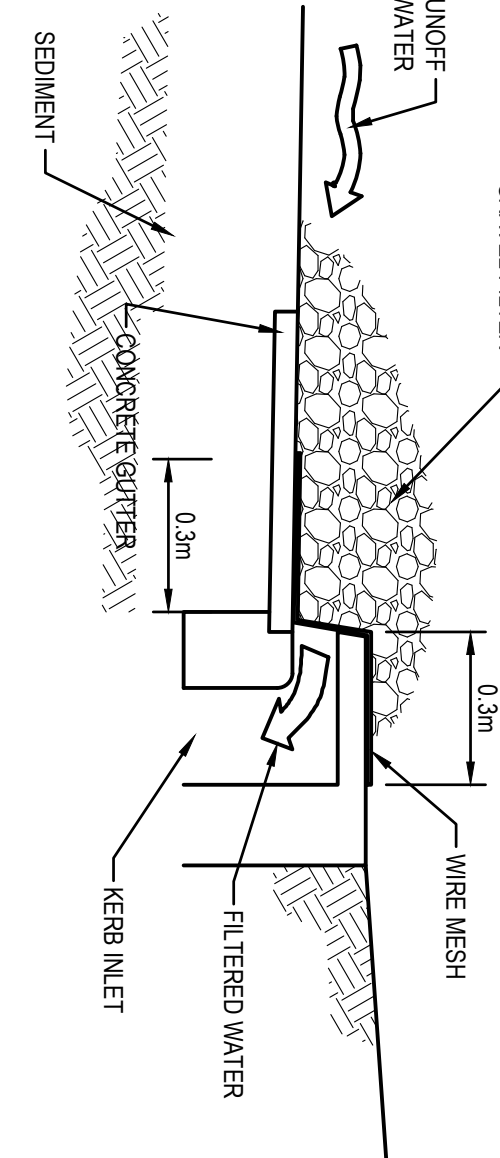
DIRTY WATER SWALE 3 TYPICAL SECTION

SCALE N.T.S.



GRAVEL KERB INLET SEDIMENT TRAP

SCALE N.T.S.



SEDIMENT FENCE

SCALE N.T.S.

KERB INLET SEDIMENT TRAP

SCALE N.T.S.

SEDIMENT BASIN SIZING CALCULATIONS - BASIN 1

$$V_S = 10^4 R_{(Y\%, S-day)}^3 C_{v1}^2 A$$

WHERE:

V_S = VOLUME OF SETTLING ZONE (m^3)

$R_{(Y\%, S-day)}$ = $Y\%$, 5-DAY RAINFALL DEPTH (mm)

C_{v1} = VOLUMETRIC RUNOFF COEFFICIENT

A = EFFECTIVE CATCHMENT SURFAC AREA CONNECTED TO THE BASIN (ha)

$$R_{(Y\%, S-day)} = 23.3 \text{ mm}$$

$$C_{v1} = 0.5$$

$$A = 22.477 \text{ ha}$$

$$\text{SETTLING ZONE VOLUME} = 2618.57 \text{ m}^3$$

$$\text{SEDIMENT STORAGE VOLUME} = 50\% \text{ SETTLING ZONE VOLUME} = 1309 \text{ m}^3$$

$$\text{TOTAL SEDIMENT BASIN VOLUME} = 3927.86 \text{ m}^3$$

SEDIMENT BASIN SIZING CALCULATIONS - BASIN 2

WHERE:

V_S = VOLUME OF SETTLING ZONE (m^3)

$R_{(Y\%, S-day)}$ = $Y\%$, 5-DAY RAINFALL DEPTH (mm)

C_{v1} = VOLUMETRIC RUNOFF COEFFICIENT

A = EFFECTIVE CATCHMENT SURFAC AREA CONNECTED TO THE BASIN (ha)

$$R_{(Y\%, S-day)} = 23.3 \text{ mm}$$

$$C_{v1} = 0.5$$

$$A = 3.4639 \text{ ha}$$

$$\text{SETTLING ZONE VOLUME} = 403.544 \text{ m}^3$$

$$\text{SEDIMENT STORAGE VOLUME} = 50\% \text{ SETTLING ZONE VOLUME} = 202 \text{ m}^3$$

$$\text{TOTAL SEDIMENT BASIN VOLUME} = 605.317 \text{ m}^3$$

SEDIMENT BASIN SIZING CALCULATIONS - BASIN 3

$$V_S = 10^4 R_{(Y\%, S-day)}^3 C_{v1}^2 A$$

WHERE:

V_S = VOLUME OF SETTLING ZONE (m^3)

$R_{(Y\%, S-day)}$ = $Y\%$, 5-DAY RAINFALL DEPTH (mm)

C_{v1} = VOLUMETRIC RUNOFF COEFFICIENT

A = EFFECTIVE CATCHMENT SURFAC AREA CONNECTED TO THE BASIN (ha)

$$R_{(Y\%, S-day)} = 23.3 \text{ mm}$$

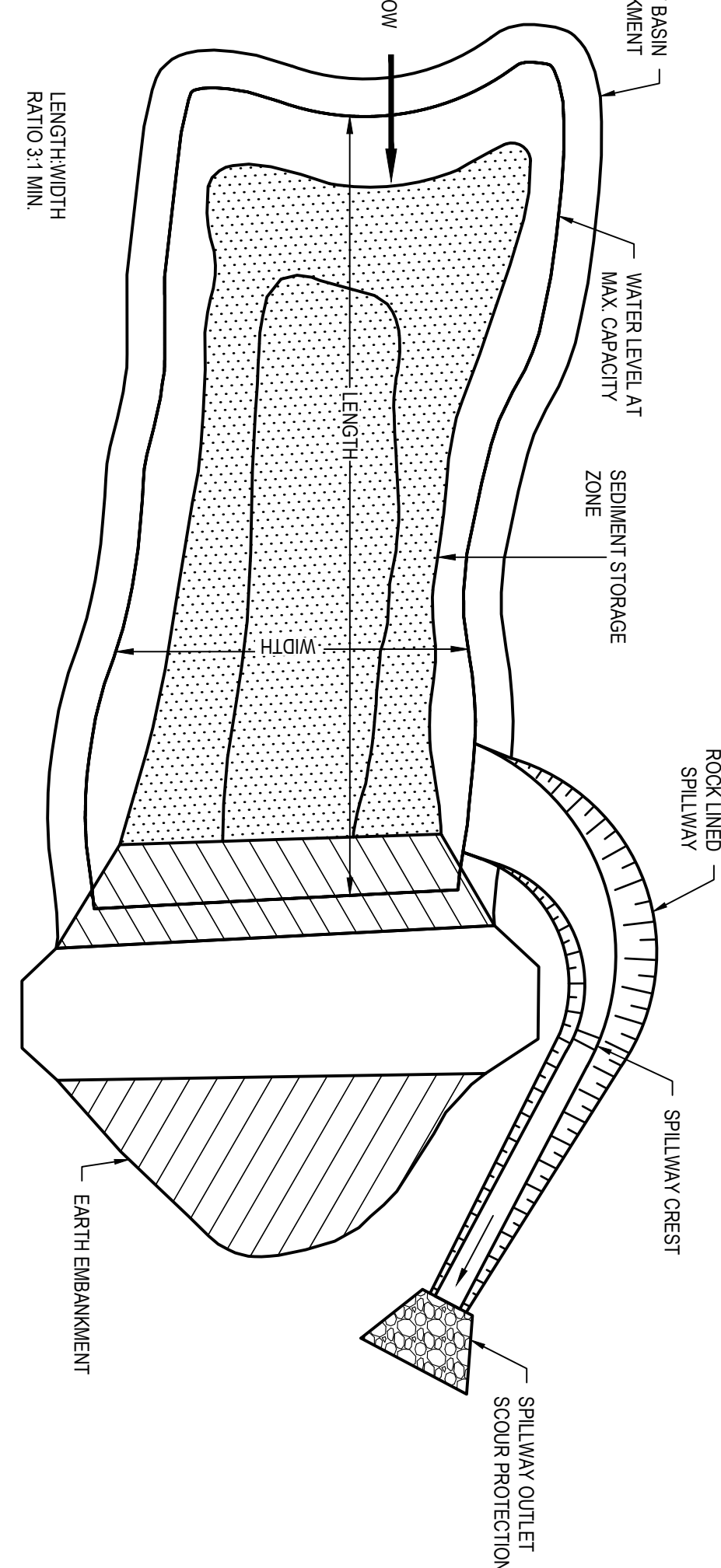
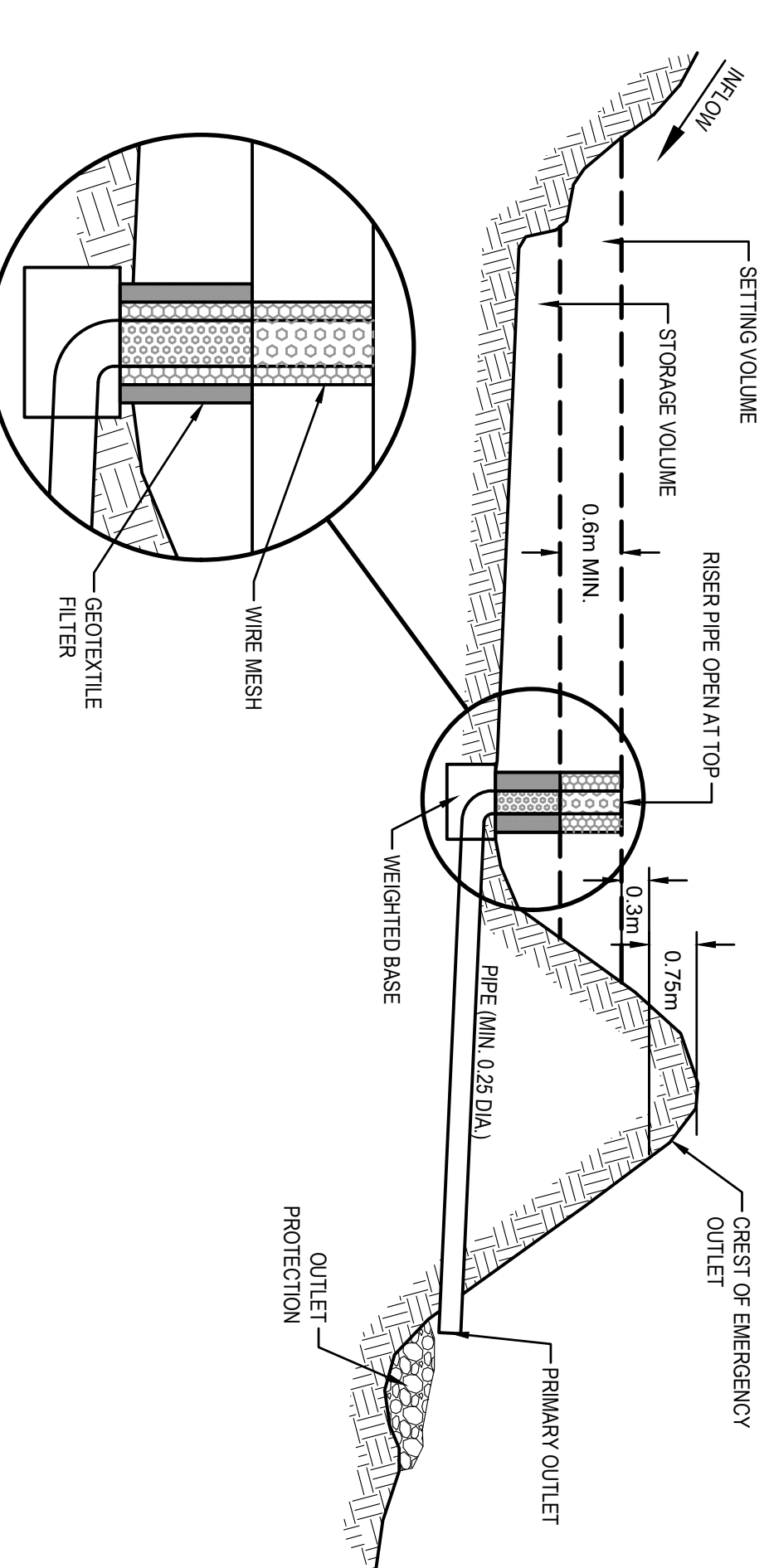
$$C_{v1} = 0.5$$

$$A = 1.6969 \text{ ha}$$

$$\text{SETTLING ZONE VOLUME} = 197.922 \text{ m}^3$$

$$\text{SEDIMENT STORAGE VOLUME} = 50\% \text{ SETTLING ZONE VOLUME} = 99 \text{ m}^3$$

$$\text{TOTAL SEDIMENT BASIN VOLUME} = 296.883 \text{ m}^3$$



CROSS SECTION OF TYPICAL SEDIMENT BASIN

SCALE N.T.S.

PLAN VIEW OF TYPICAL SEDIMENT BASIN

SCALE N.T.S.

Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.J.B.	J.A.B.
Drawn By: J.J.B.				
Checked By: J.A.B.				
Scale: N.T.S.				

Prepared By: J.J.B.
8 E. M.E. Road, P.O. Box 444, Crows Nest, NSW 1585
Civil & Structural Engineer

Client: CHINA ORIENTAL INVESTMENT DOMAIN TRUST

Council: muswellbrook shire council

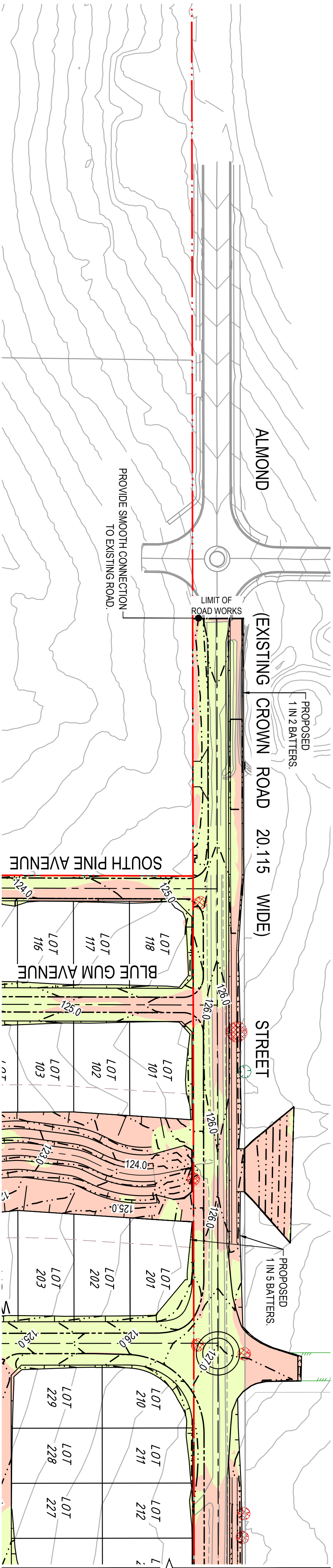
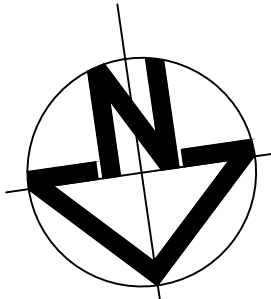
Scale:

TELFORD civil
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street, Enrol : info@tefordcivil.com.au
Parramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

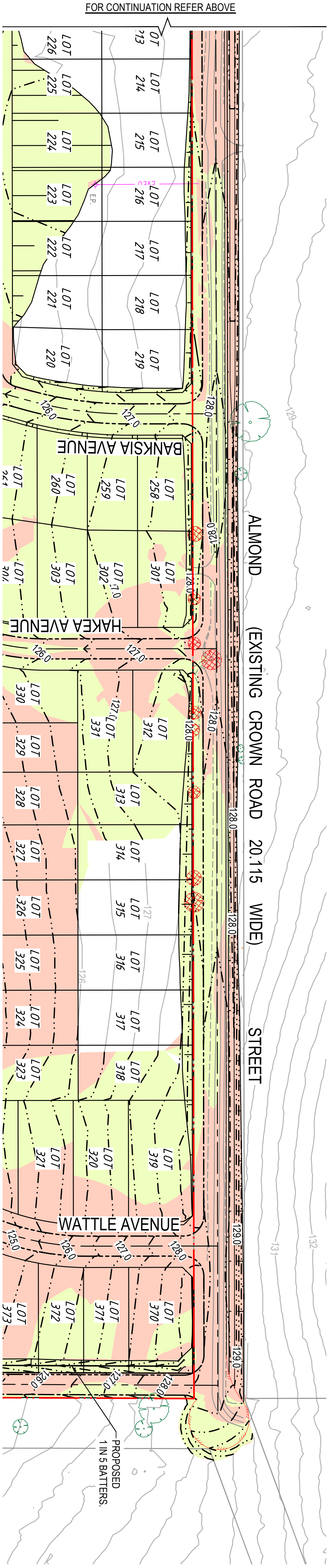
Project: PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title: EROSION AND SEDIMENT CONTROL DETAILS
Scale: N.T.S.
Project No.: 22048
Draw No.: 110
Issue: A

drawn paper



FOR CONTINUATION REFER BELOW



FOR CONTINUATION REFER ABOVE

LEGEND

- EXISTING LOT BOUNDARY
- PROPOSED INVERT OF KERB
- PROPOSED FINISHED CONTOURS
- PROPOSED DESIGN CONTOURS
- PROPOSED ACOUSTIC FENCE
- DEMOTES FILL AREA
- DEMOTES CUT AREA

BULK EARTHWORKS VOLUMES

EXCLUDING TRIMMING WORKS, BOXING, AND TRENCHES
TOTAL CUT = 31,275m³
TOTAL FILL = 49,406m³
TOTAL CUT (FROM TRIMMING WORKS, BOXING, AND TRENCHES) = 17,456m³
BALANCE = 18,131m³

TYPICAL ACOUSTIC BARRIER SECTION (COMBINATION EARTH/FENCE)

SCALE 1:100

ACOUSTIC BARRIER
FOOTING DESIGN
SUBJECT TO
GEOTECHNICAL AND
STRUCTURAL
ENGINEERS DETAILS.

NOTE:
REFER TO ACOUSTIC REPORT PREPARED
BY SPECTRUM ACOUSTIC FOR DETAILS.



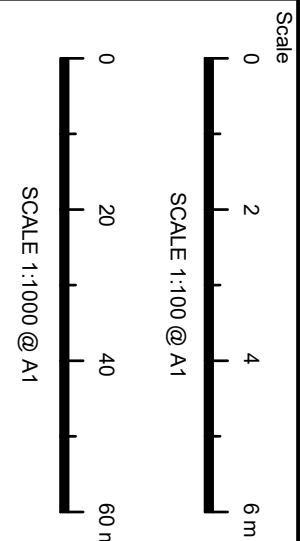
Zero Damage - Zero Harm

Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.I.B.	J.A.B.

Prepared by: Mr. Mark Davis
B.E., M.E. (Reg), P.D., F.E. Aust., CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

Council
muswellbrook
shire council



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Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title
BULK EARTHWORKS PLAN
Scale
A1
Project No.
22048
Dwg No.
200
Issue
A



ROCKERS TO BE INSTALLED AT ALL IN-SITU PITS ON BOTH THE INLET AND OUTLET SIDES. CONTRACTOR TO ENSURE PIPE ROCKERS ARE USED ON SITE DURING CONSTRUCTION.

Zero Damage - Zero Harm

Certification By: Dr. Michael Chaaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng,
Civil & Structural Engineer



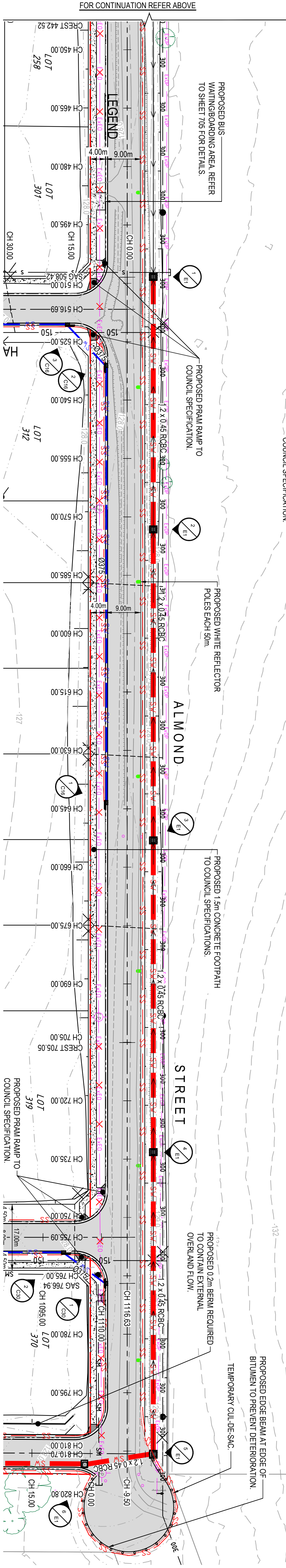
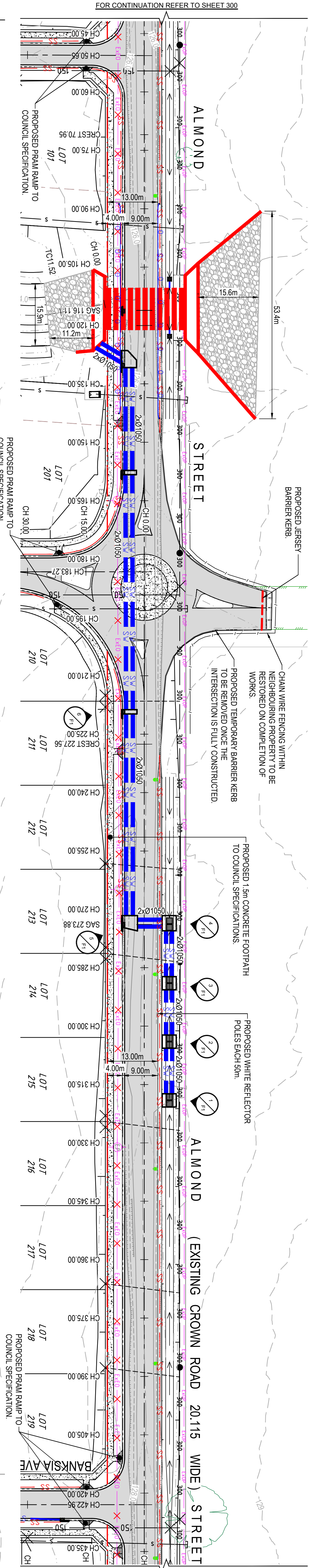
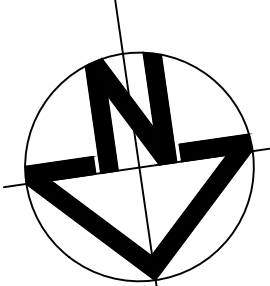
muswellbrook
shire council

TELFORD civil
 CONSULTING CIVIL & STORMWATER ENGINEERS
 14, 32 Smith Street, Email : info@telfordcivil.com

Drawing Title	
ENGINEERING PLAN AND DETAILS SHEET 1	
Scale	Project No.
A1 1:500	22048

Drawing Title	
ENGINEERING PLAN AND DETAILS SHEET 1	
Scale	Dwg. No.
1:300	300
AT	Issue
Project No.	A
22048	





LEGEND

	PROPOSED SUBDIVISION		EXISTING OVERHEAD ELECTRICAL TO BE REMOVED
	LOT BOUNDARY		PROPOSED DN 150 RRU uPVC SN 8
	PROPOSED KERB & GUTTER		PROPOSED DN 225 RRU uPVC SN 8
	PROPOSED ROLLER KERB		PROPOSED SEWER MANHOLE
	PROPOSED ROAD CENTERLINE		PROPOSED PROPERTY CONNECTION POINT
	PROPOSED PRAM RAMP		PROPOSED STUB FOR FUTURE CONNECTION
	PROPOSED EDGE OF BITUMEN		PROPOSED SEWER RISING MAIN TO BE DETAILLED BY AQUATEC
	PROPOSED FINISHED CONTOURS		PROPOSED WATER TRUNK (DN300 PVC/M2 PN12 TYPE B)
	PROPOSED SWALE		WATER SERVICE (POINT OF ENTRY)
	PROPOSED EASEMENT TO DRAIN WATER		WATER CONDUITS & SERVICES Ø100 uPVC PN9
	PROPOSED WHITE REFLECTOR POLES		SERIES SINGLE CONDUIT DEAD END
	PROPOSED STORMWATER PIPE		PROPOSED TEMPORARY BARRIER KERB
	EXISTING OPTIC FIBER		

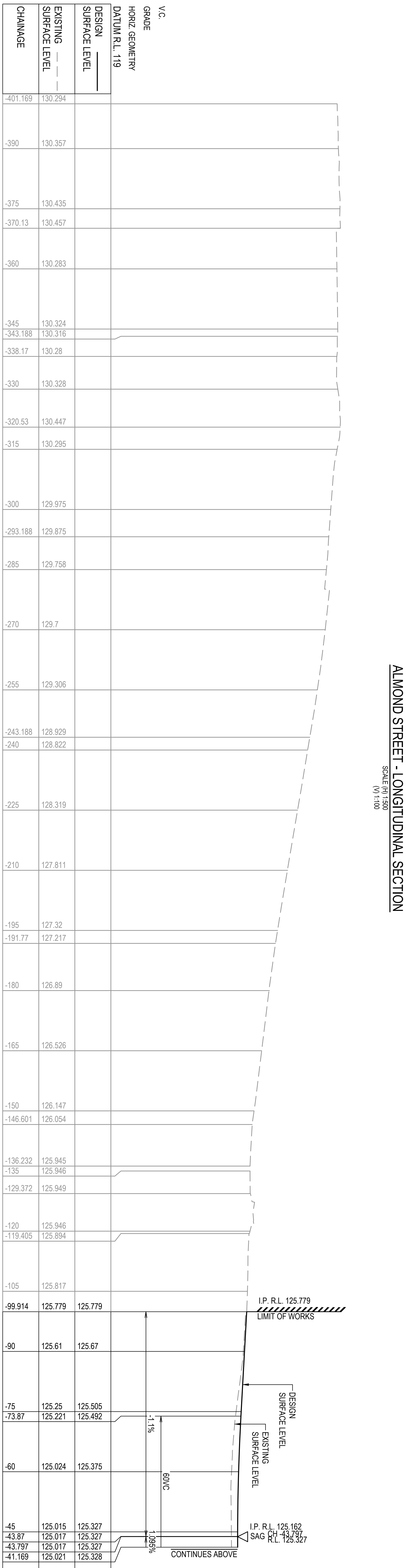
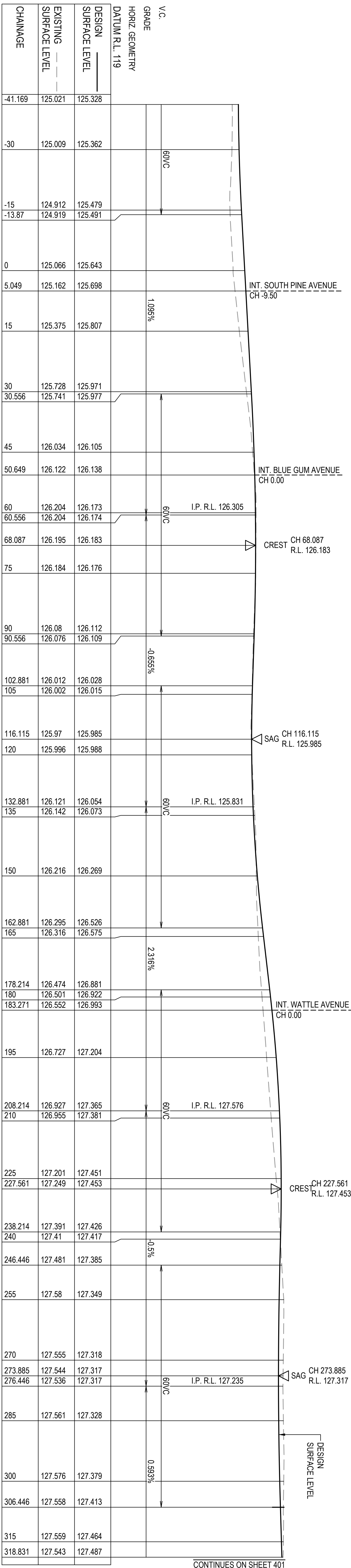
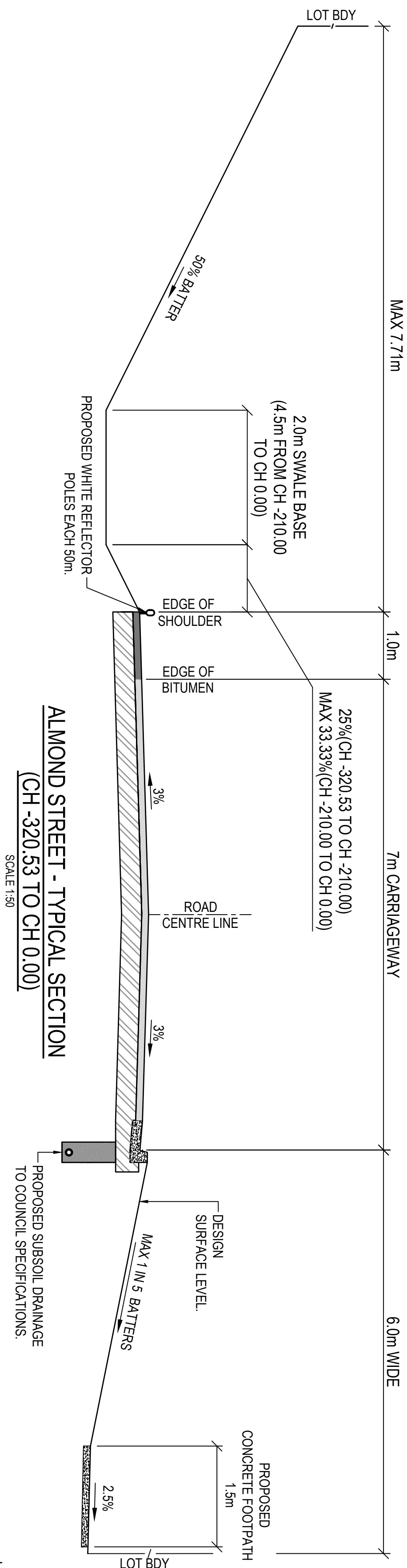
NOTE:
ROCKERS TO BE INSTALLED AT ALL IN-SITU PITS ON BOTH THE INLET AND OUTLET SIDES. CONTRACTOR TO ENSURE PIPE ROCKERS ARE USED ON SITE DURING CONSTRUCTION.

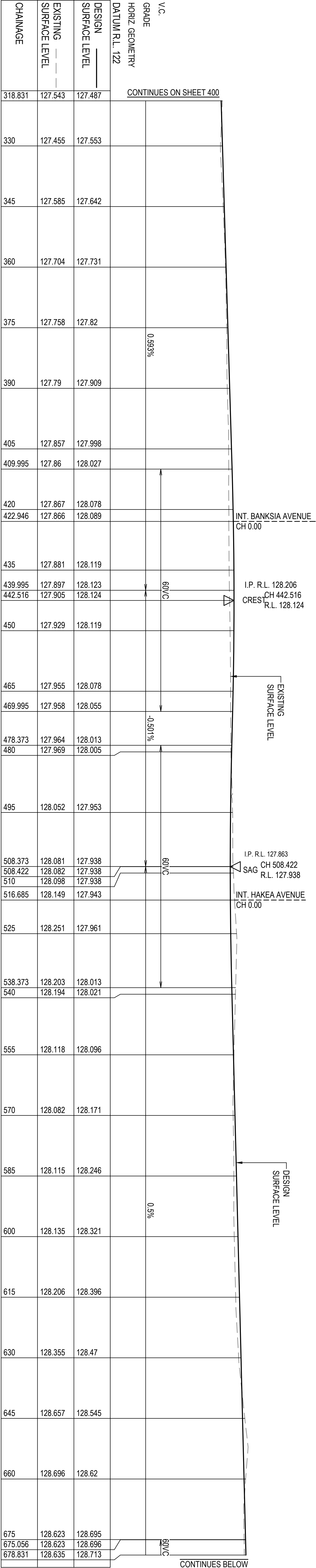
LEGEND

	PROPOSED SUBSOIL DRAINAGE
	PROPOSED 1.2 x 0.45 ROBC
	PROPOSED KERB INLET PIT
	PROPOSED SAG PIT
	INTERALLOTMENT DRAINAGE PIT
	PROPOSED CONCRETE FOOTPATH
	PROPOSED ROAD PAVEMENT
	PROPOSED STRUCTURE NUMBER
	EXISTING LOT BOUNDARY
	PROPOSED OVERHEAD ELECTRICAL
	EXISTING OPTIC FIBER

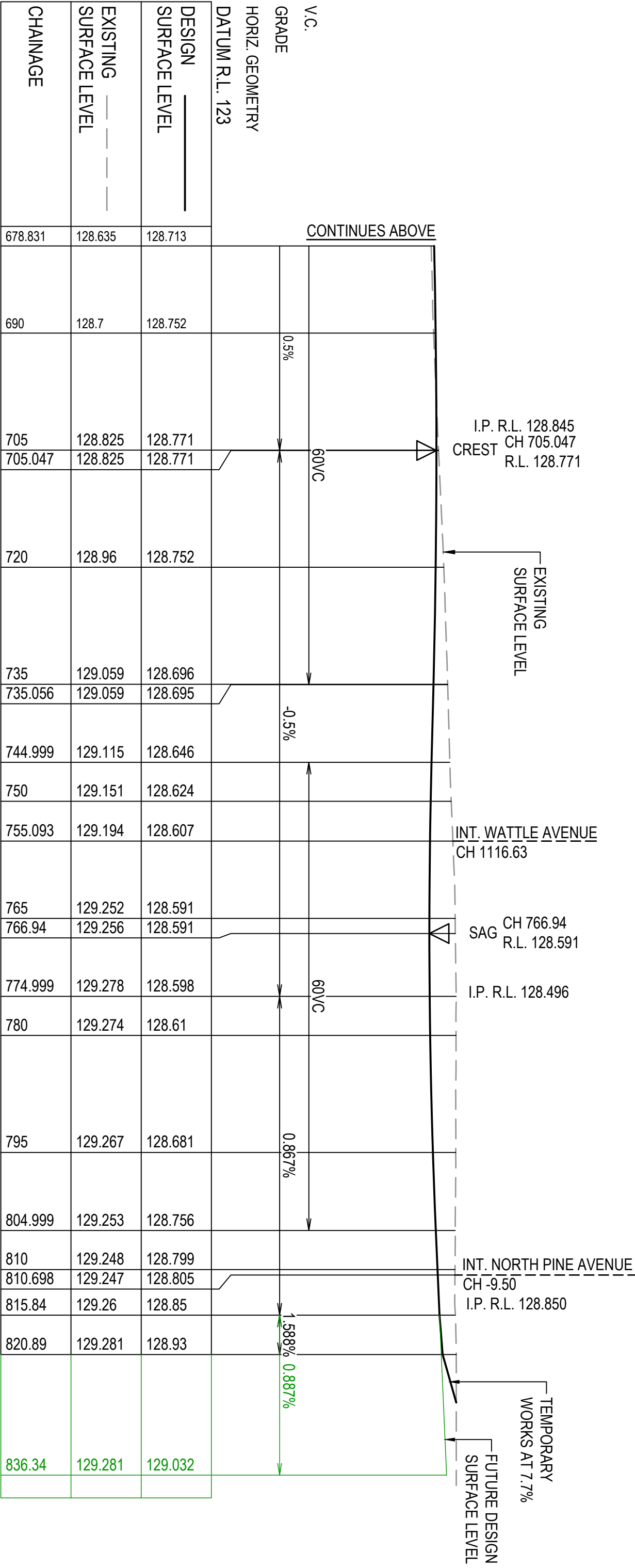
		Prepared By: Maged Elwan, Civil & Structural Engineer / A/E/C, O/E/S,	

ALMOND STEEL - SETOUT TABLE					
PT	CHAMGAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	-101.000	282045.417	6415180.611	125.779	8°0'53.00"
IP 2	820.980	282175.668	6416092.157	128.930	8°0'53.00"

[illegible]



ALMOND STREET - LONGITUDINAL SECTION
SCALE (H) 1:500
(V) 1:100



ALMOND STREET - LONGITUDINAL SECTION
SCALE (H) 1:500
(V) 1:100

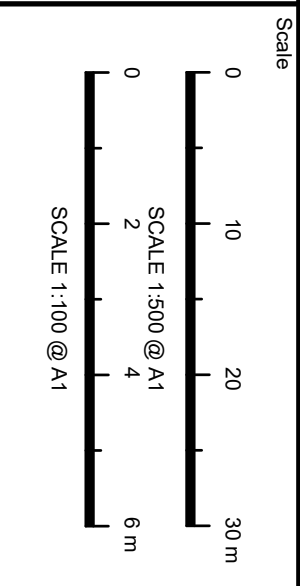
drawn paper

Revision		Description		Date	
A		ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026	
Issue		Description		Date	
J.J.B.		J.A.B.		Design	
J.J.B.		J.A.B.		Checked	
J.J.B.		J.A.B.		Drawn	
J.J.B.		J.A.B.		Scale	

Prepared by: Mr. J.J.B. B.E., M.E. (Res), P.D., F.E. (Asst), C.Peng.
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

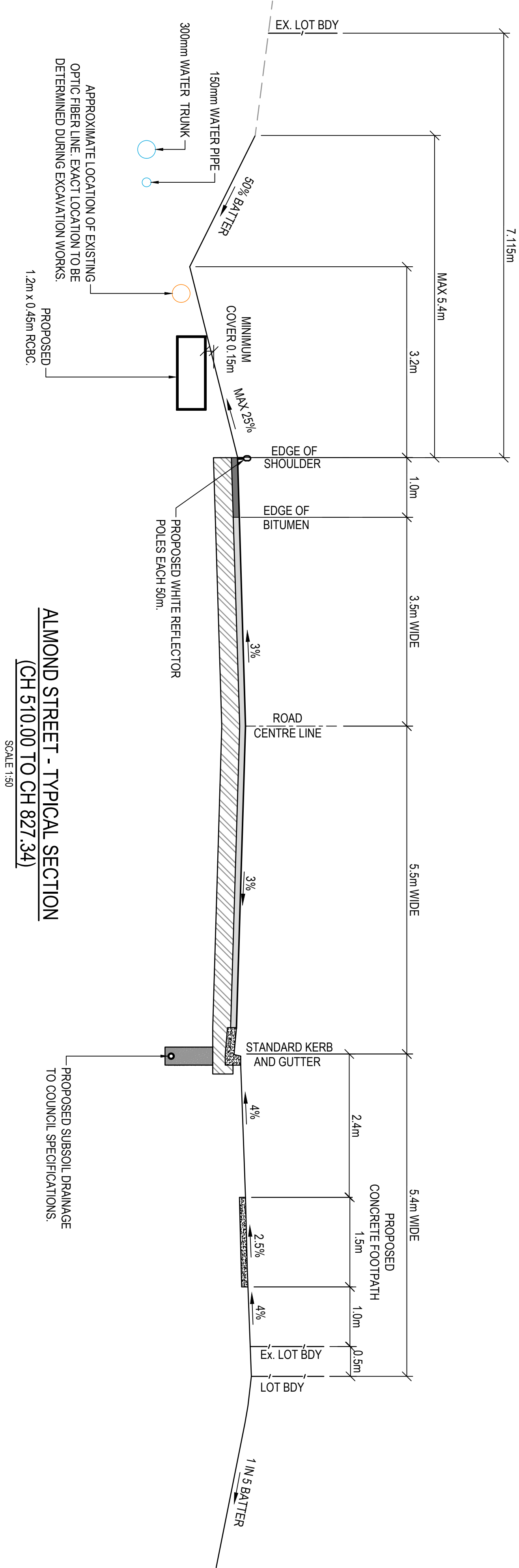
Council
muswellbrook
shire council



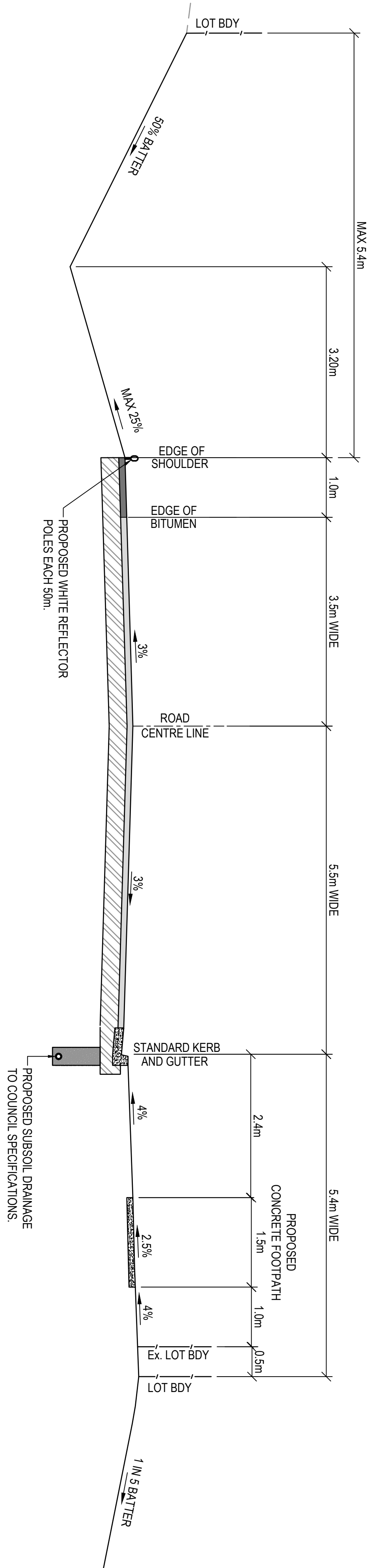
TELFORD civil
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Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

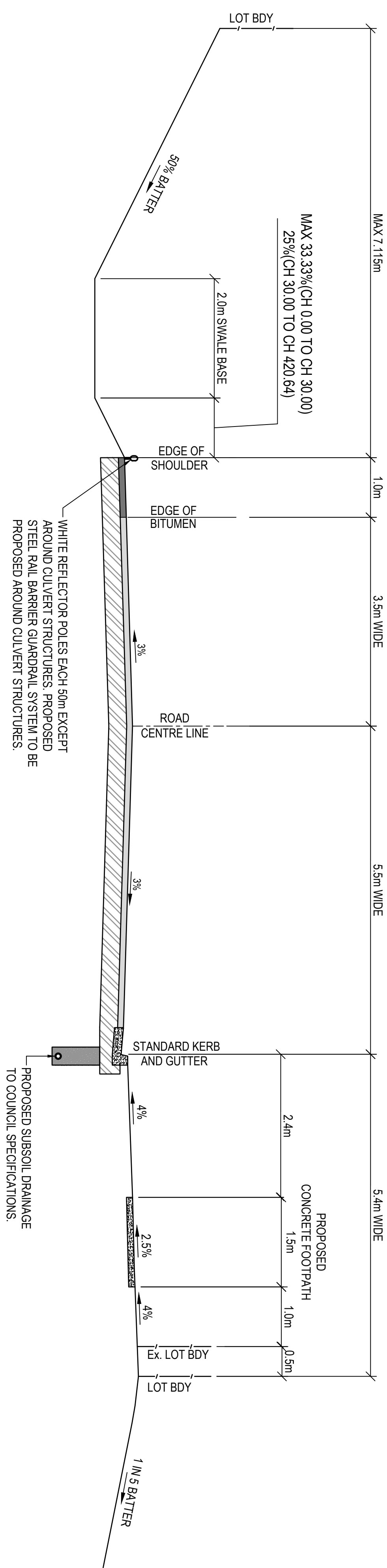
Drawing Title		Scale		Project No.		Dwg No.		Issue	
ALMOND STREET LONGITUDINAL AND TYPICAL CROSS SECTIONS SHEET 2		As Shown		22048		401		A	



ALMOND STREET - TYPICAL SECTION
(CH 510.00 TO CH 827.34)
SCALE 1:30



ALMOND STREET - TYPICAL SECTION
(CH 420.64 TO CH 510.00)
SCALE 1:30



ALMOND STREET - TYPICAL SECTION
(CH 0.00 TO CH 420.64)
SCALE 1:50

known paper

Issue		Description		Date		Design		Checked	
A		ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026		J.J.B.		J.A.B.	
1		Initial Issue		10/01/2024		10/01/2024		10/01/2024	

Prepared by: **Morgan & Morgan**
Civil & Structural Engineer

Client: **CHINA ORIENTAL INVESTMENT DOMAIN TRUST**

Council: **muswellbrook shire council**

Scale:

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PO BOX 3579 Parramatta 2124 trading As : Telford Consulting Pty Ltd

Project: **PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT**

Drawing Title: **ALMOND STREET LONGITUDINAL AND TYPICAL CROSS SECTIONS SHEET 3**

Scale	As Shown	Project No.	22048	Dwg No.	402	Issue	A
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OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL	DATUM R.L. 120
-10.348	125.321	125.321	
-10.25	125.313	125.37	
-9.75	125.447	125.12	
-5.25	124.712	125.12	
-4.5	124.912	125.37	
-3.5	125.111	125.4	
0	125.25	125.505	
3.05	125.228	125.413	
3.5	125.219	125.373	
3.53	125.219	125.523	
3.65	125.061	125.523	
7.907	124.938	124.878	
9.507	124.838	124.838	

EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL	OFFSET
125.74	125.74	-10.66
125.535	125.535	-10.25
125.285	125.285	-9.75
125.285	125.285	-5.25
125.535	125.535	-4.5
125.565	125.565	-3.5
125.67	125.67	0
125.578	125.578	3.05
125.538	125.538	3.5
125.688	125.688	3.53
125.688	125.688	3.65
125.002	125.002	7.909
124.962	124.962	9.509

EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL	OFFSET
125.745	125.745	-10.439
125.65	125.744	-10.25
125.4	125.734	-9.75
125.4	125.643	-5.25
125.65	125.666	-4.5
125.68	125.694	-3.5
125.785	125.787	0
125.694	125.681	3.05
125.654	125.664	3.5
125.804	125.663	3.53
125.804	125.658	3.65
124.925	125.062	7.91
124.885	124.885	9.51

OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL
-10.693	125.414	125.414
-10.25	125.677	125.192
-9.75	125.71	124.942
-5.25	124.642	124.942
-4.5	124.659	125.192
-3.5	124.822	125.222
0	125.015	125.327
3.05	124.857	125.236
3.5	124.833	125.196
3.53	124.832	125.346
3.65	124.827	125.346
7.904	124.734	124.73
9.504	124.647	124.69

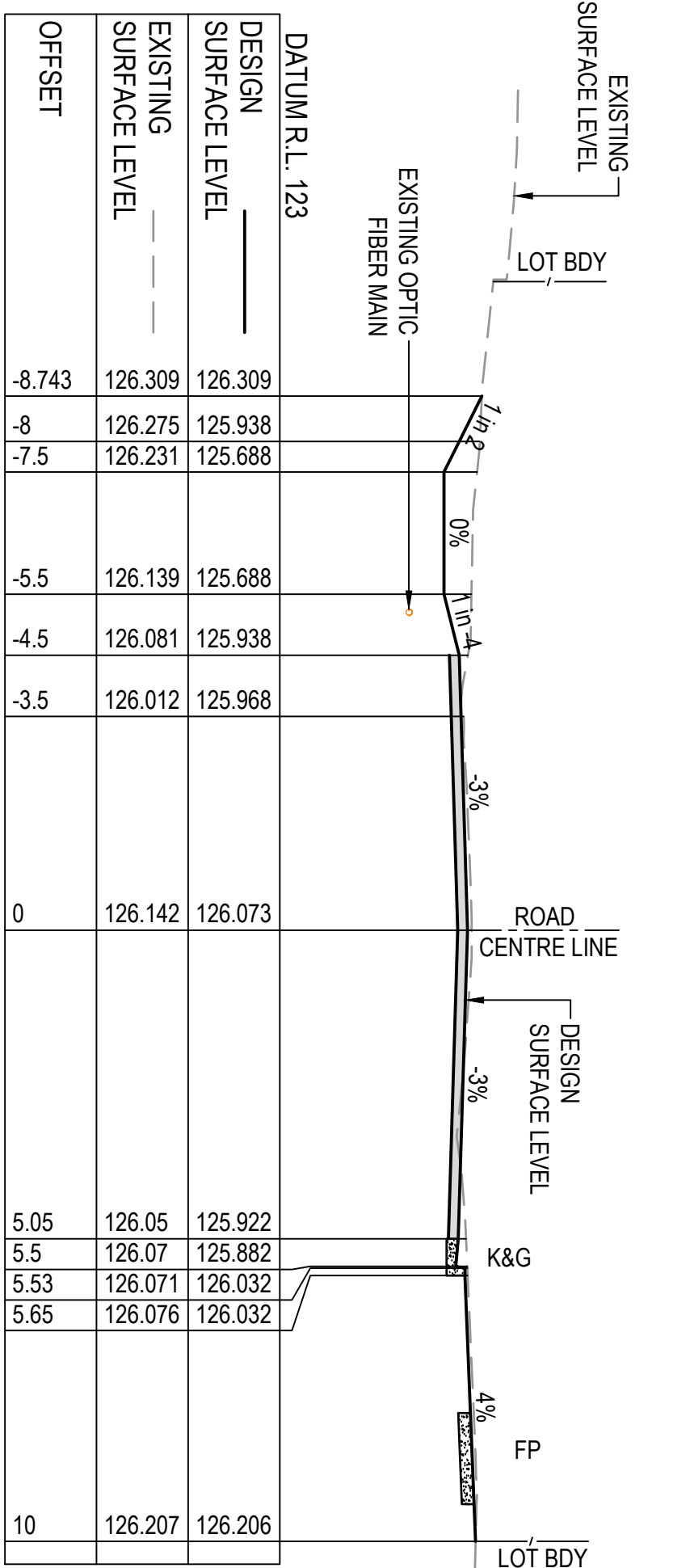
The diagram shows a cross-section of a road with various levels and offsets. The table below provides the data for the levels and offsets shown in the diagram.

OFFSET	EXISTING SURFACE LEVEL	DESIGN SURFACE LEVEL	DATUM R.L. 120
-10.462	125.346	125.346	
-10.25	125.299	125.24	
-9.75	125.187	124.99	
-5.25	124.63	124.99	
-4.5	124.802	125.24	
-3.5	124.95	125.27	
0	125.024	125.375	
3.05	124.958	125.284	
3.5	124.962	125.244	
3.53	124.962	125.394	
3.65	124.961	125.394	
7.906	124.853	124.735	
9.506	124.695	124.695	

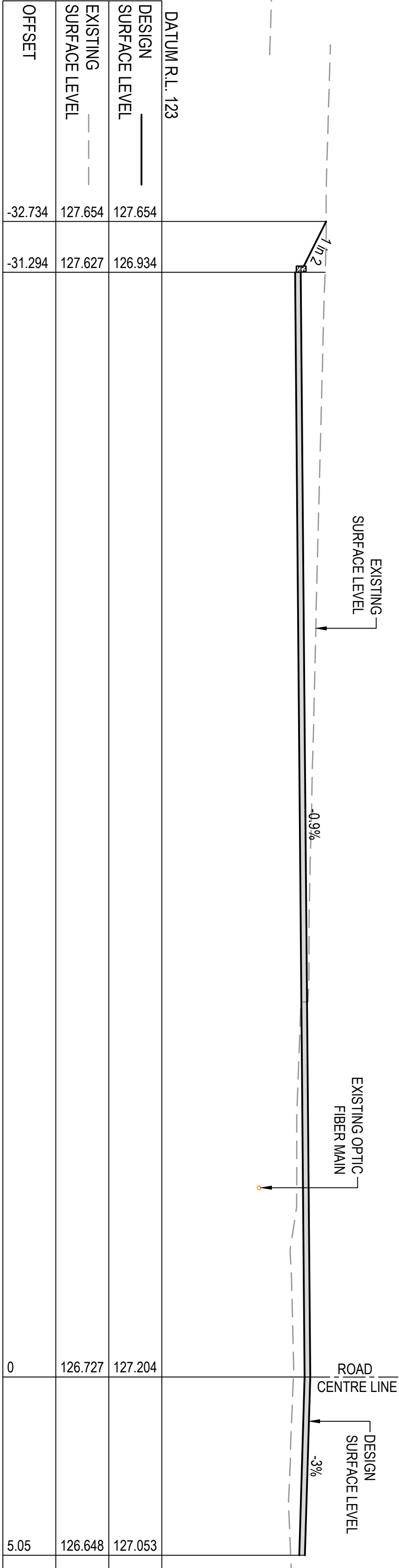
The diagram also includes the following labels and features:

- EXISTING SURFACE LEVEL (dashed line)
- LOT BDY (Left Boundary)
- LOT BDY (Right Boundary)
- EXISTING OPTIC FIBER MAIN (arrow pointing to a line)
- 0% (grade)
- 3% (grade)
- ROAD CENTRE LINE
- 3% (grade)
- K&G (Kerbside/Gutter)
- DESIGN SURFACE LEVEL (solid line)
- 1 in 6 (grade)
- 2.5% (grade)
- FP (Footpath)

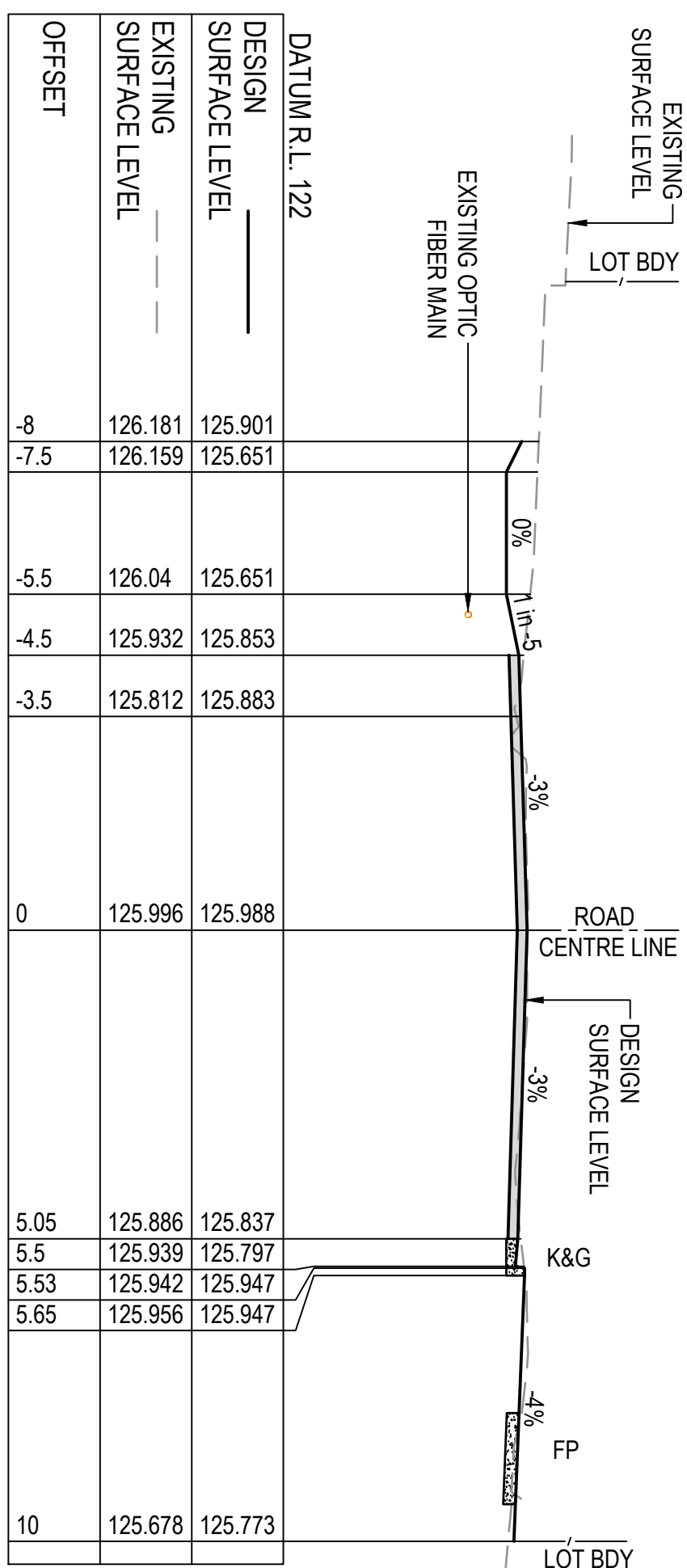
Consentation by: Almond Churna Civil & Structural Engineer E: A.Churna, C: 07896		Client: CHINA ORIENTAL INVESTMENT DOMAIN TRUST		Council: muswellbrook shire council		Scale: 	
Issue: A		Description: ISSUE FOR VOLUNTARY PLANNING AGREEMENT		Date: 28/05/2026		Design: J.B.B.	
Drawn at 1:100		Scale: 1:100		Project No: 22048		Dwg No: 420	
Issue: A		Project No: 22048		Dwg No: 420		Issue: A	



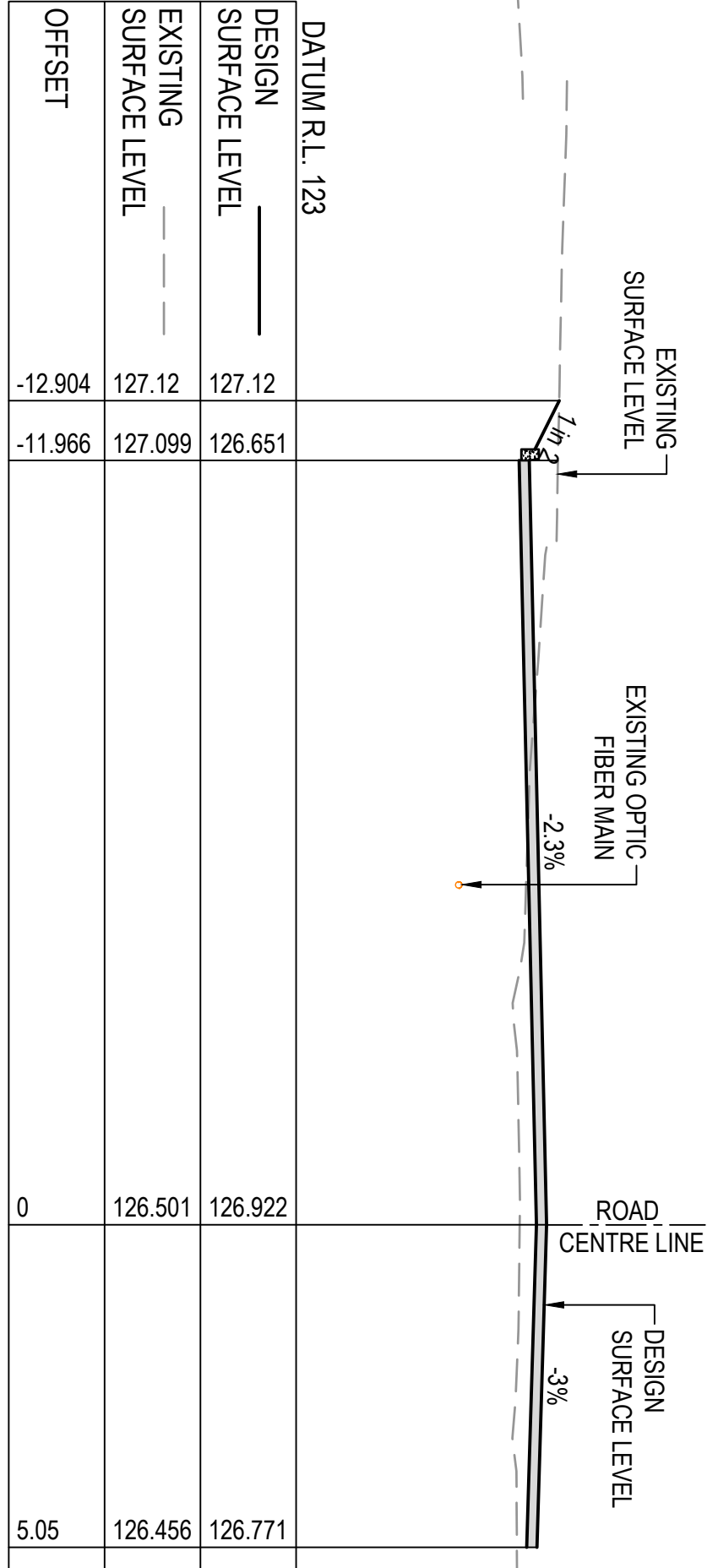
CH 135



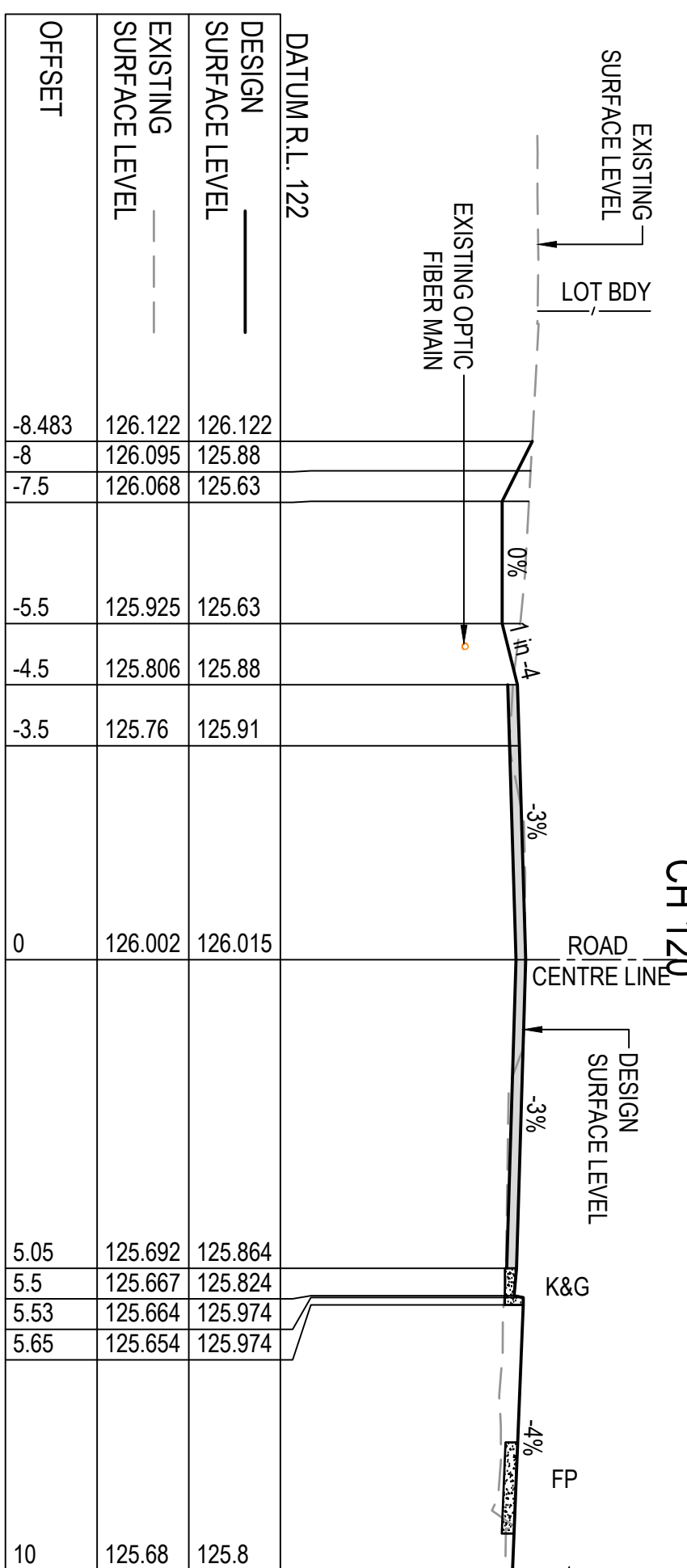
CH 195



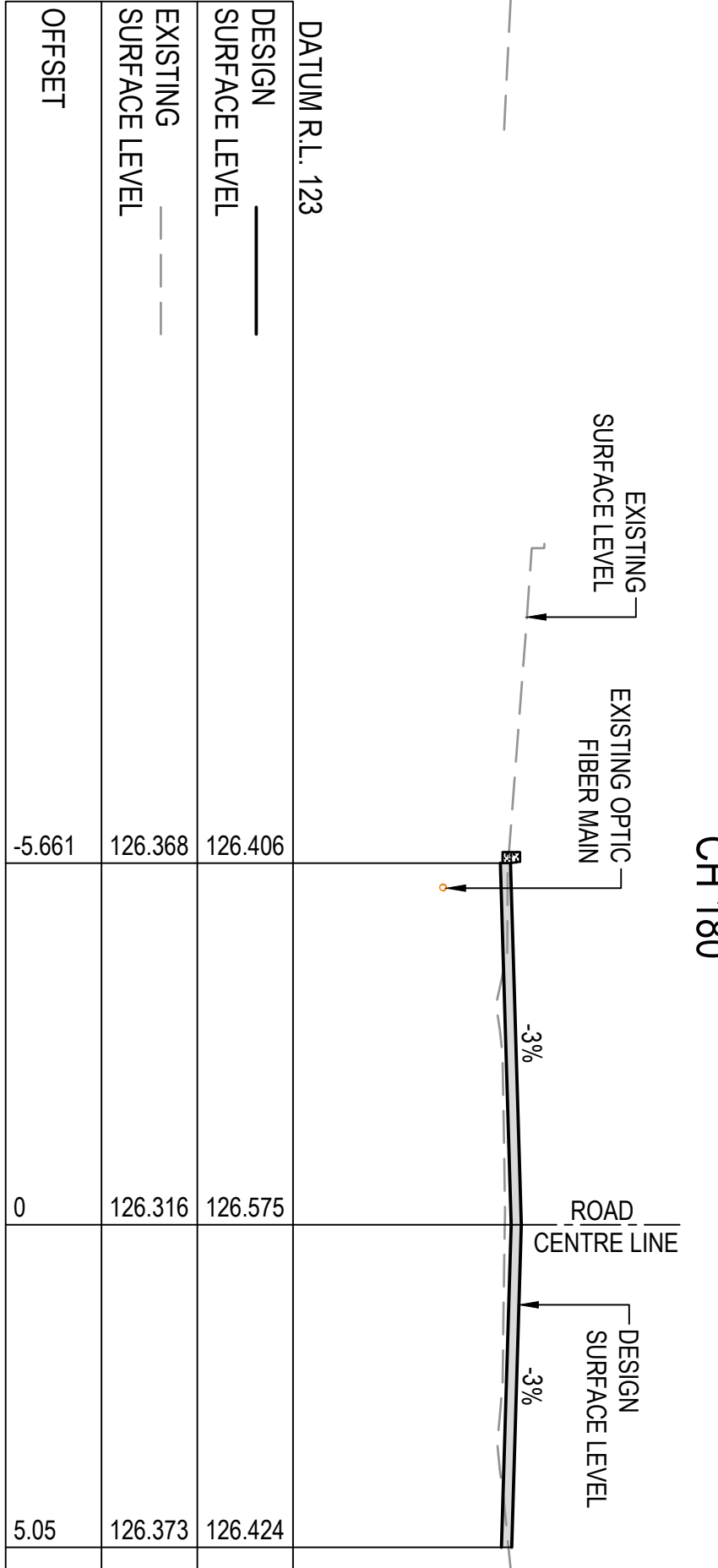
CH 120



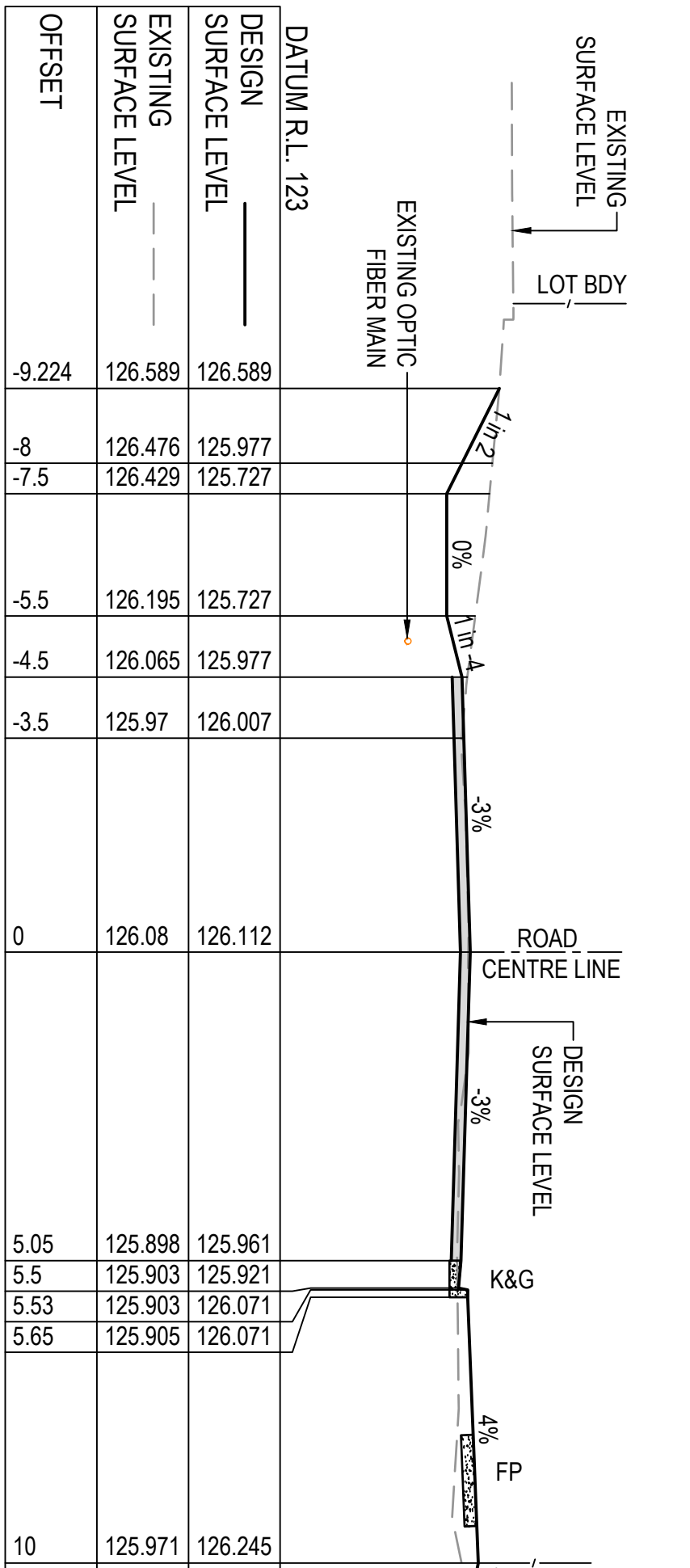
CH 180



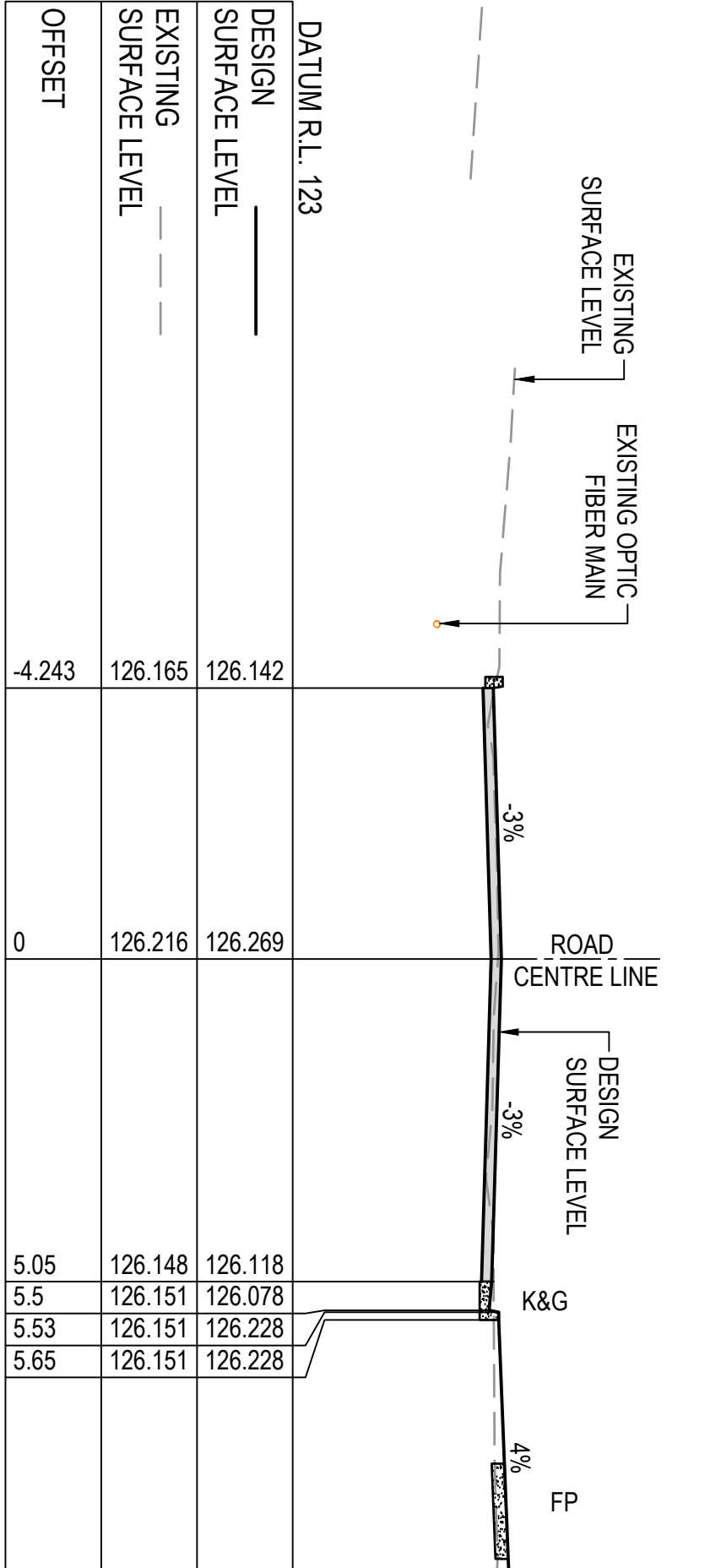
CH 105



CH 165

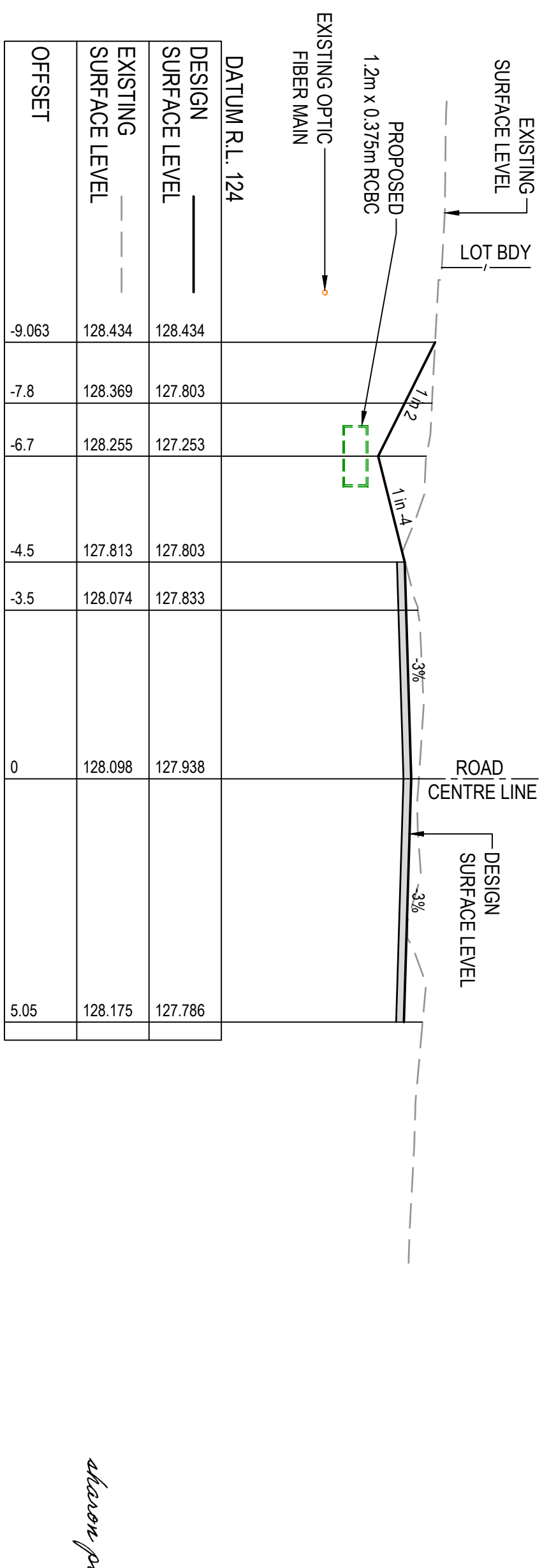
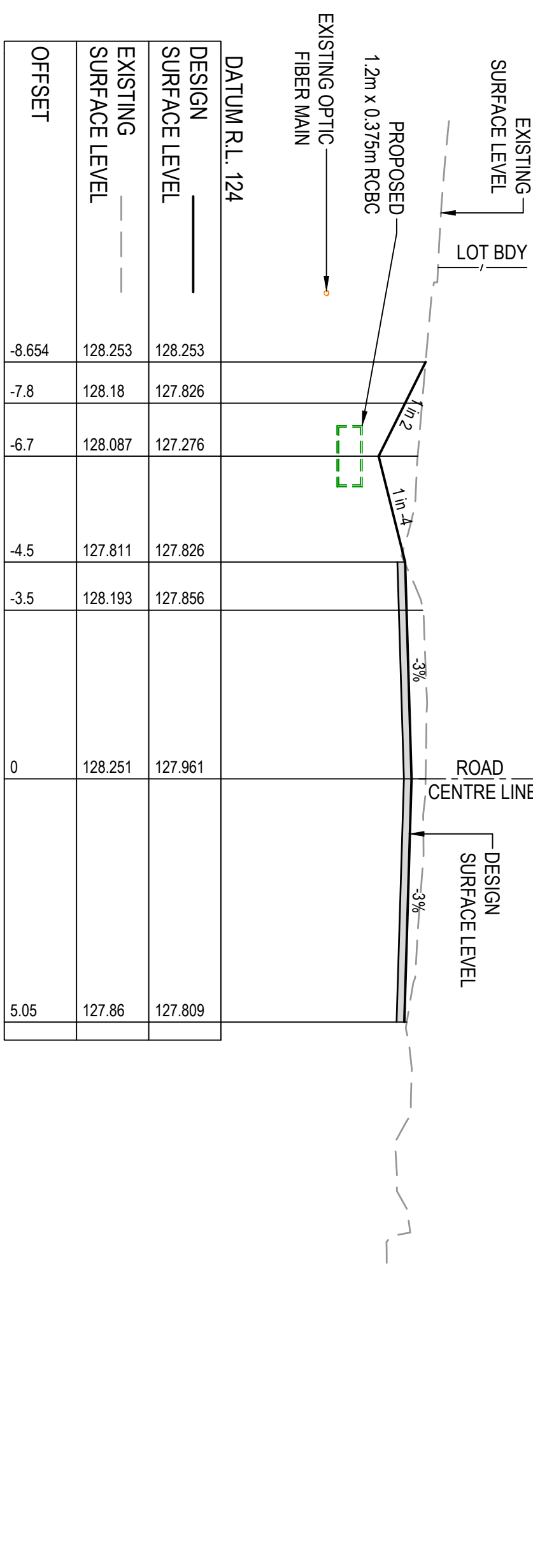
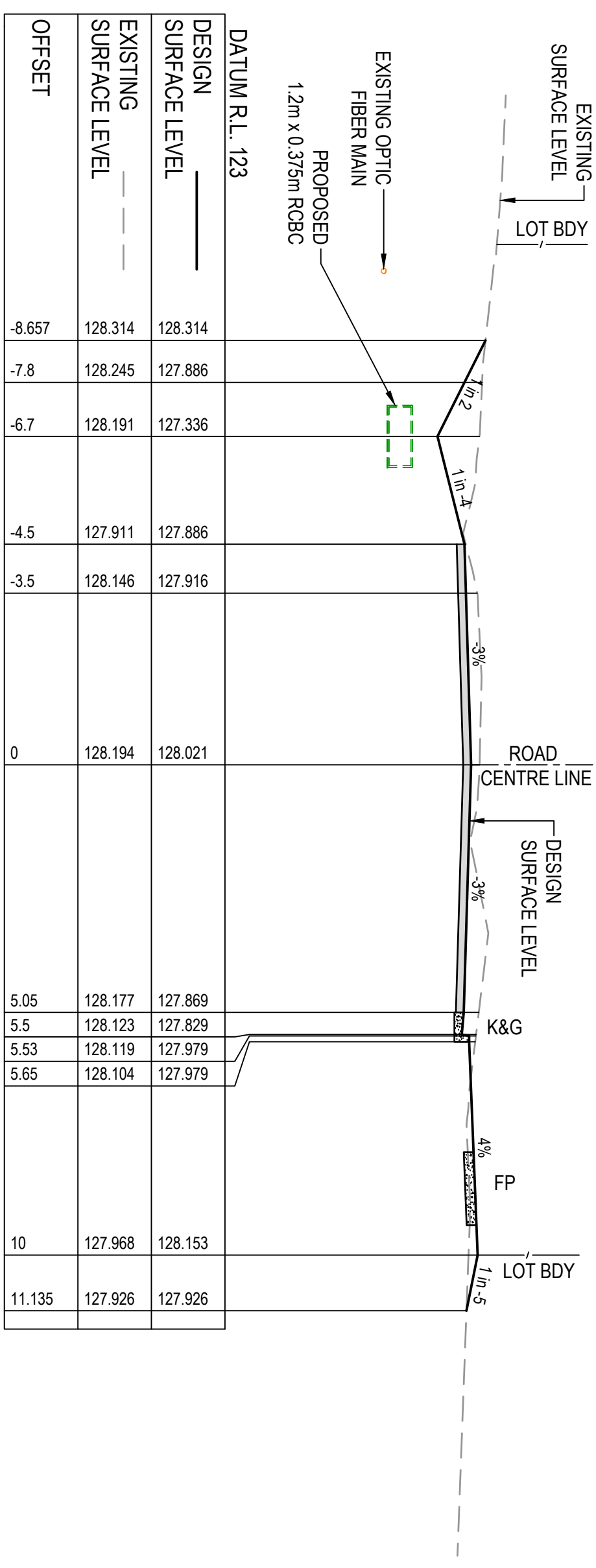
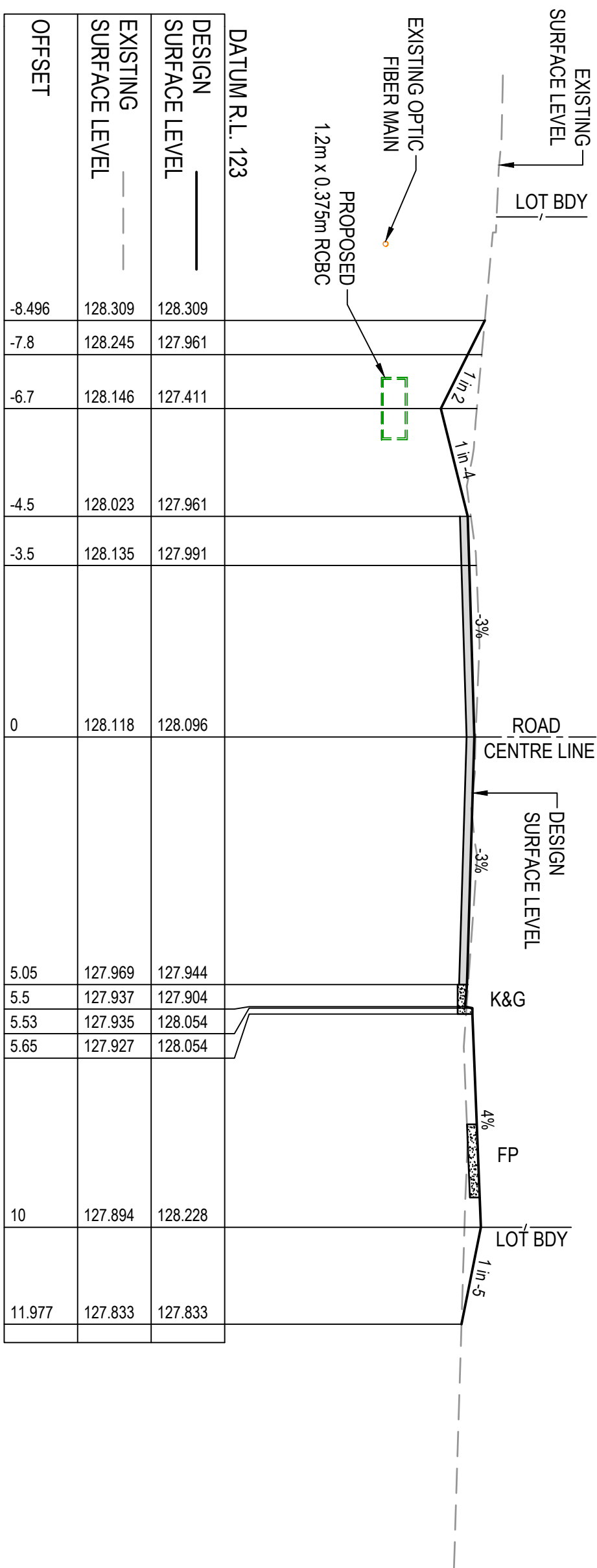
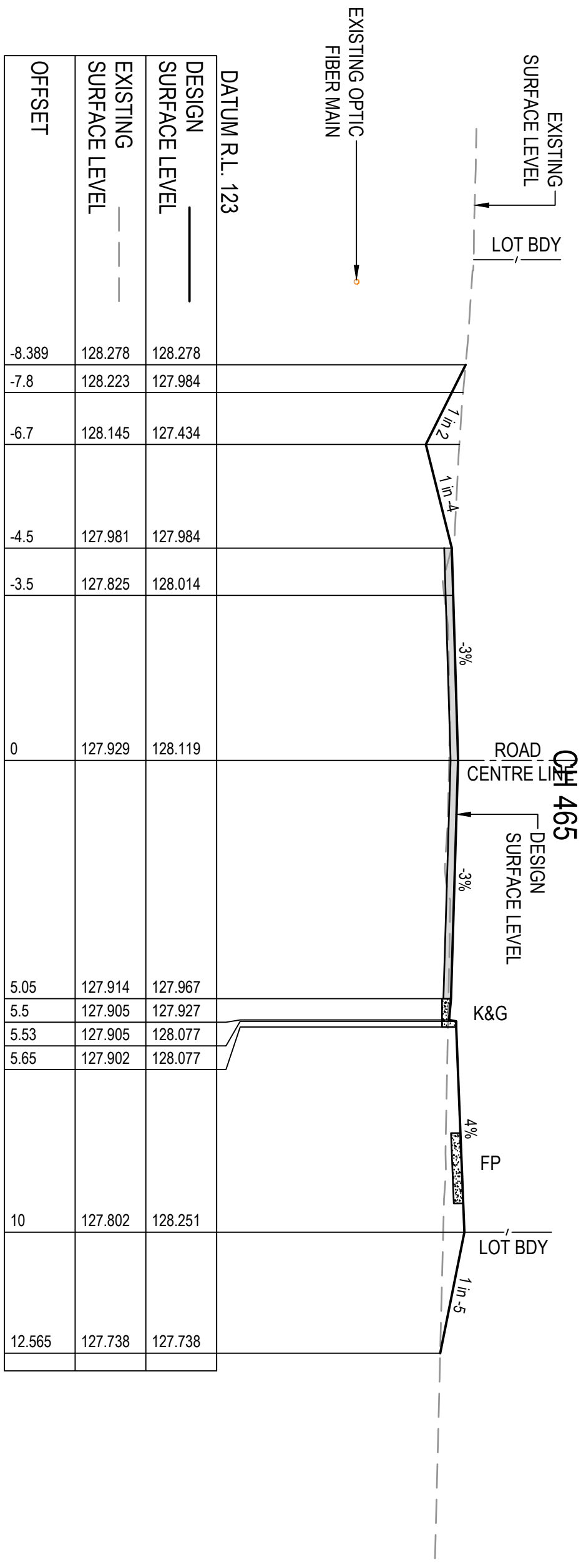
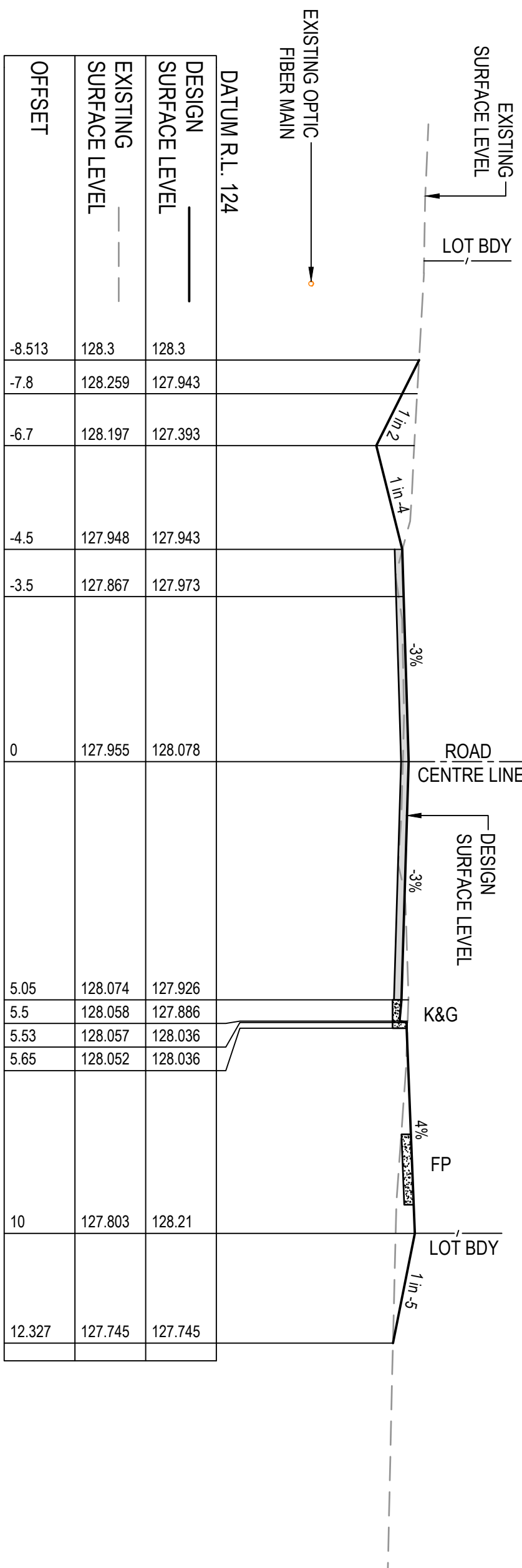
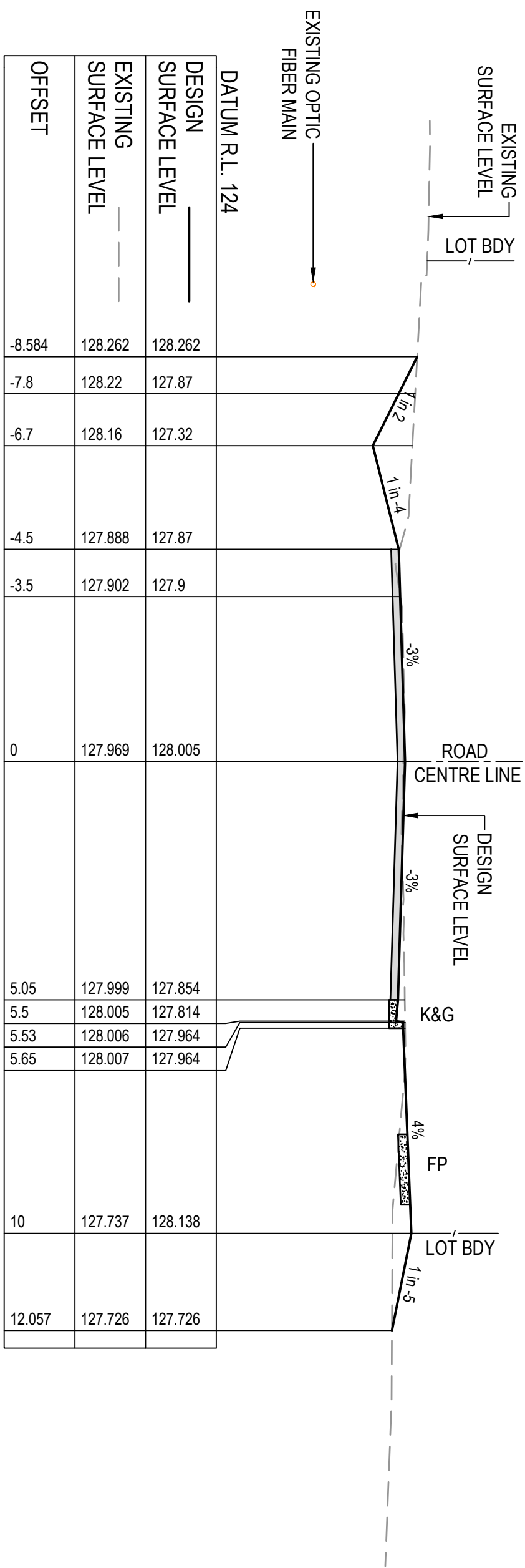
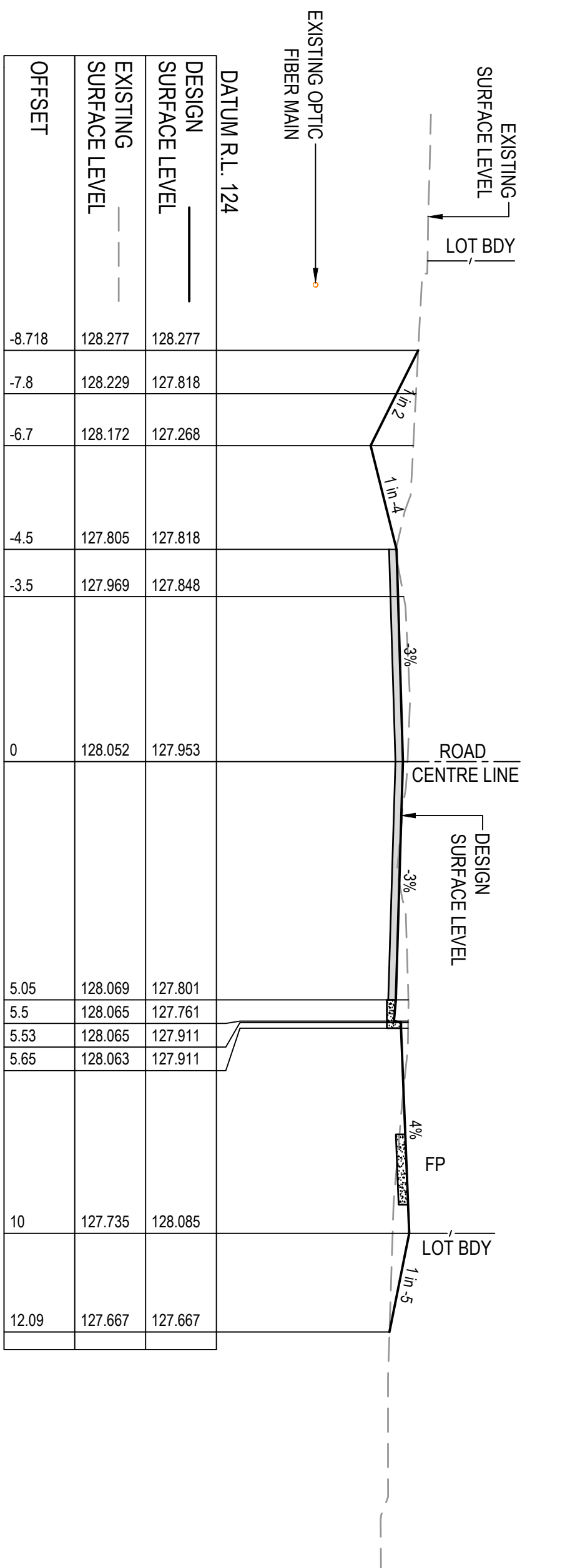


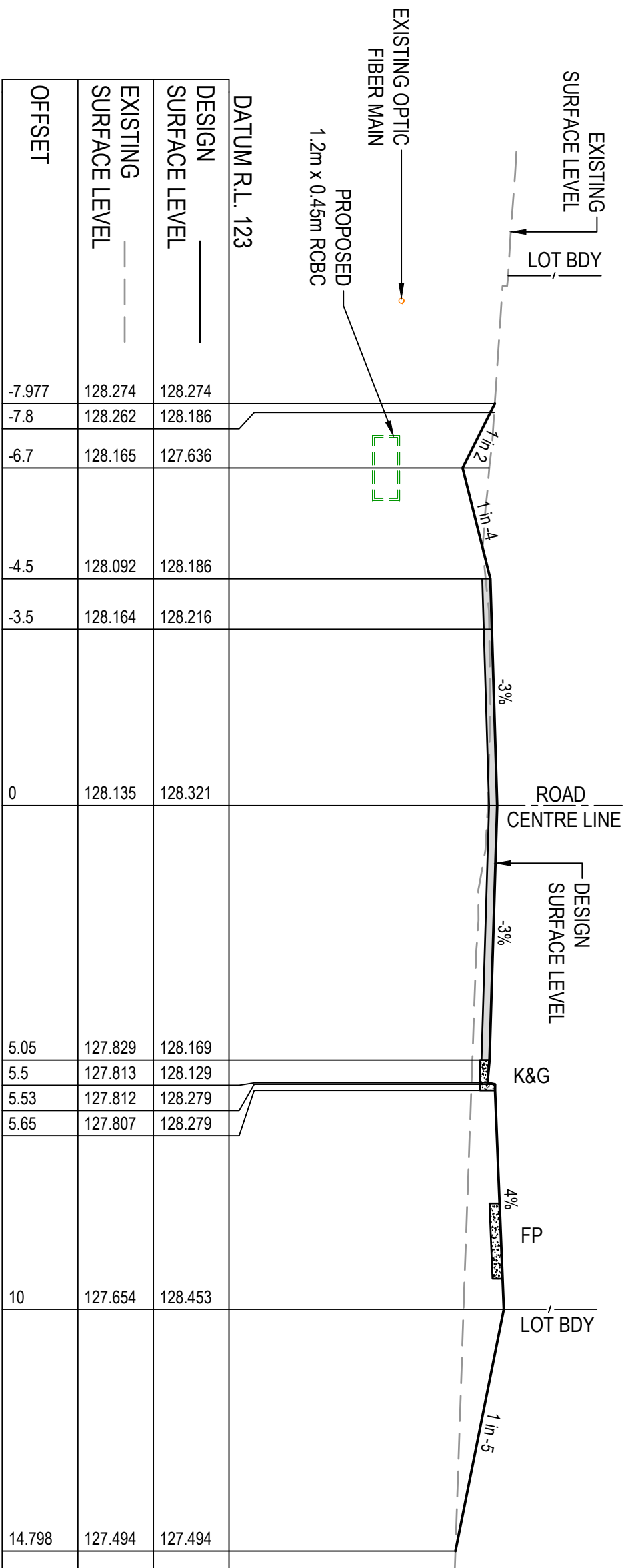
CH 90



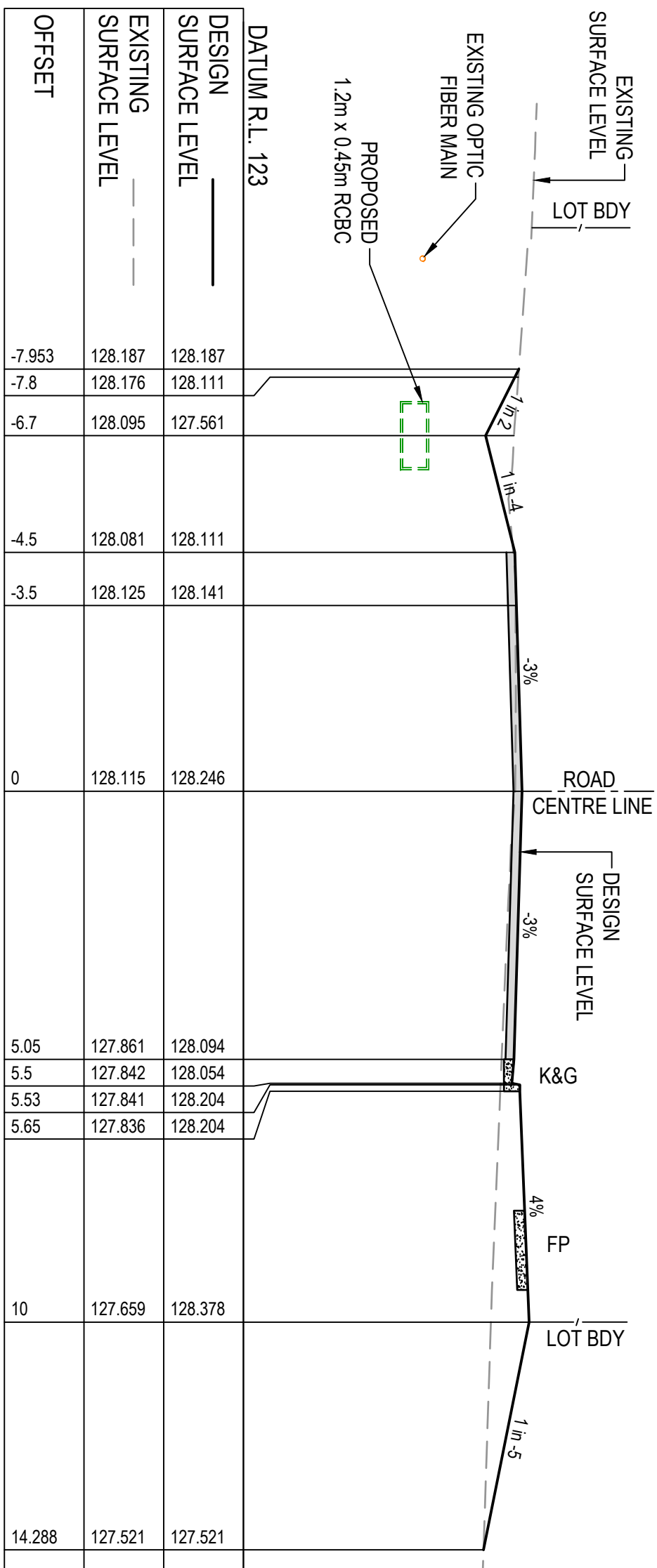
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drawn paper

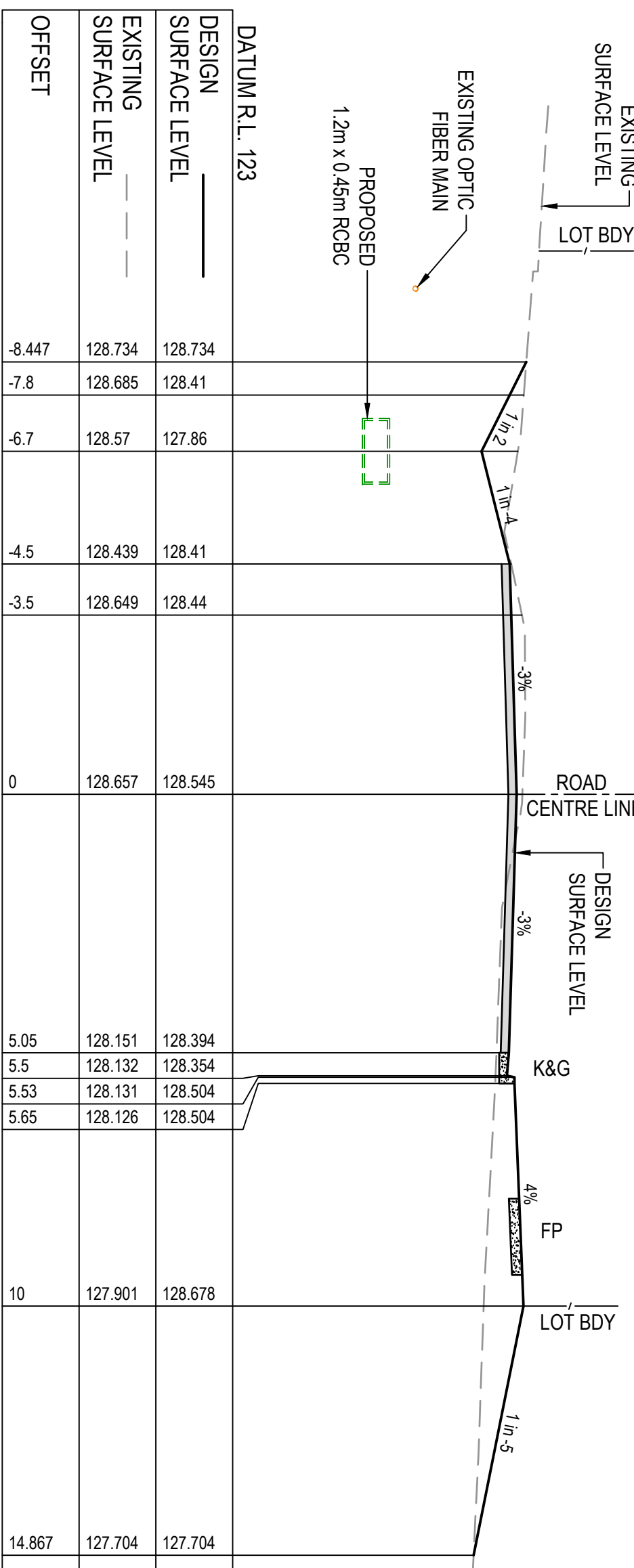




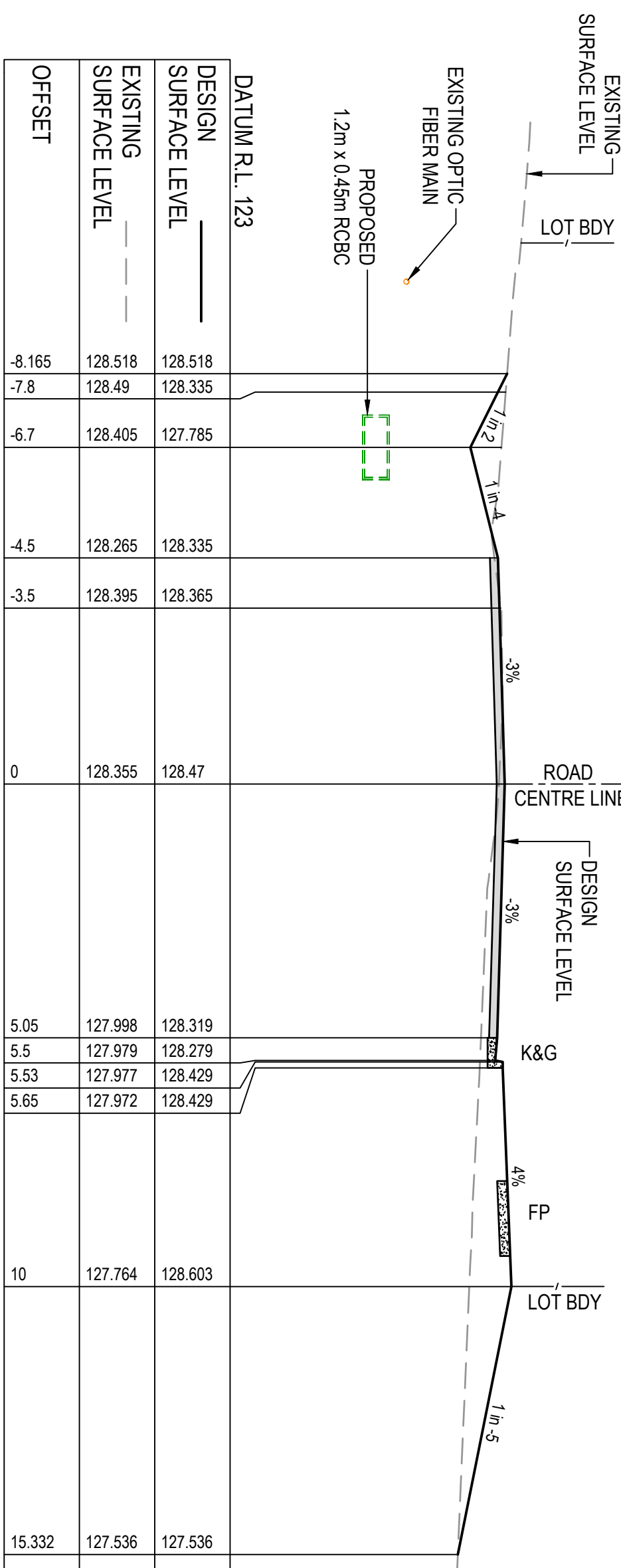
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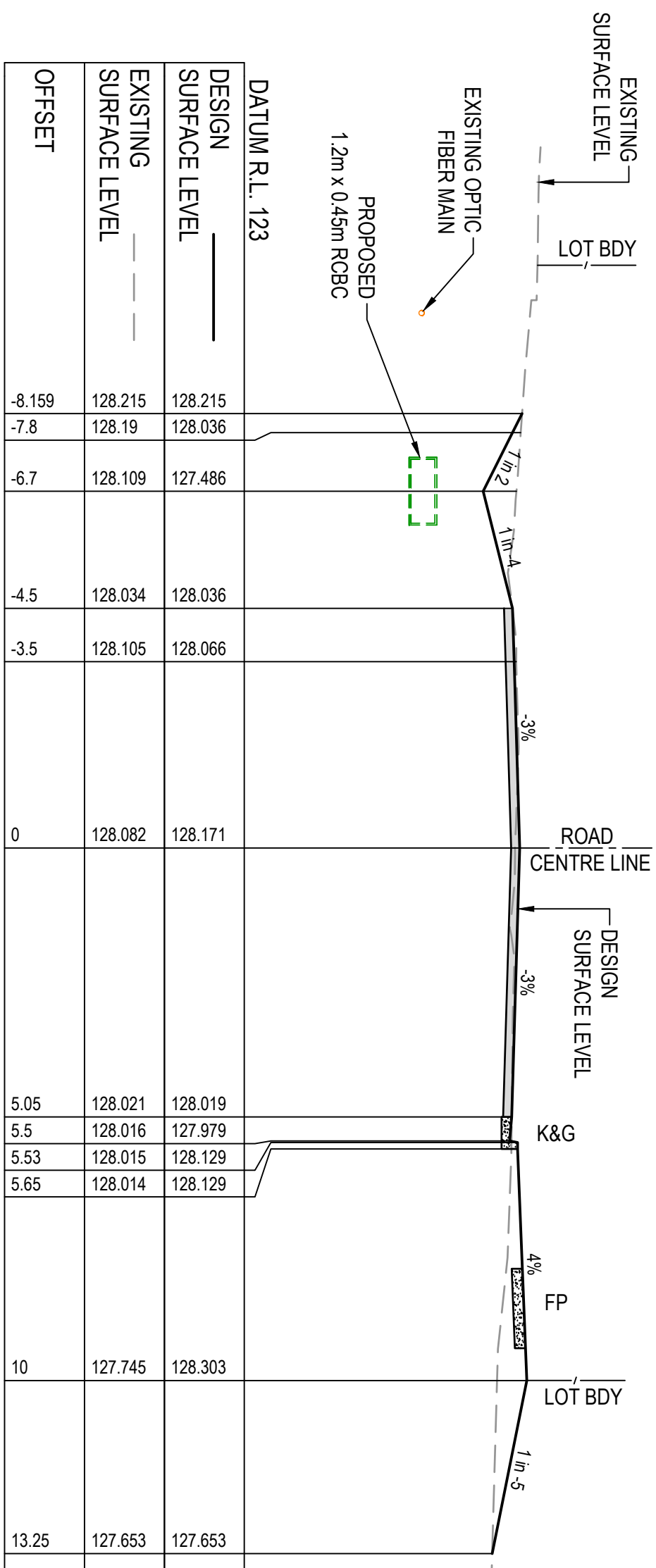
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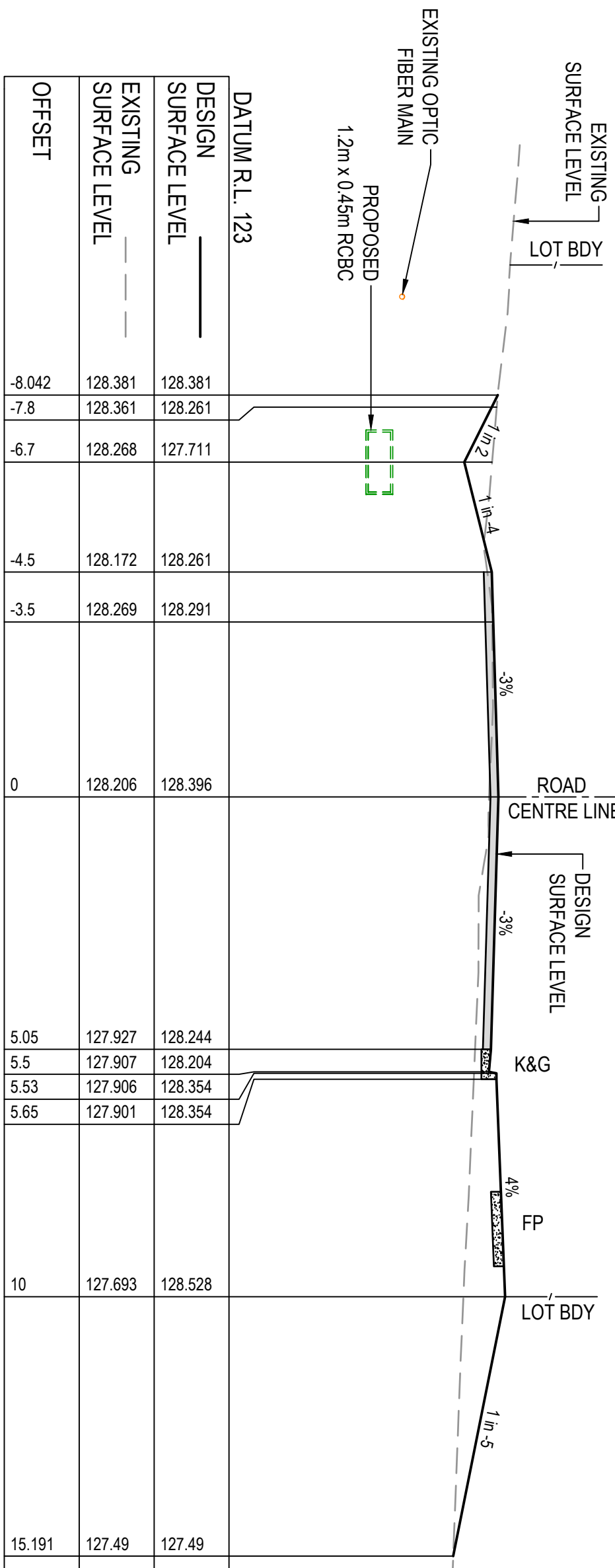
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CH 630



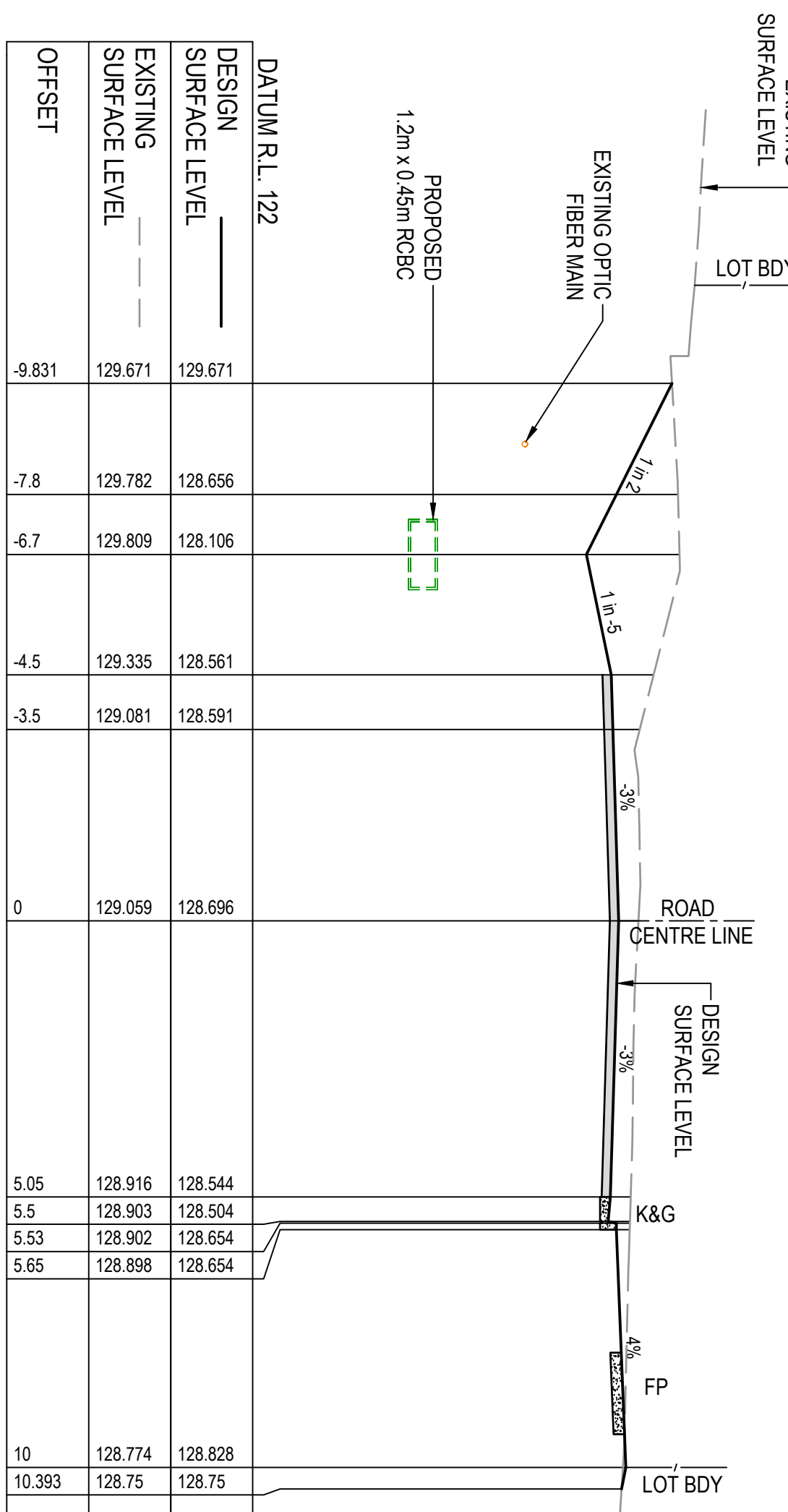
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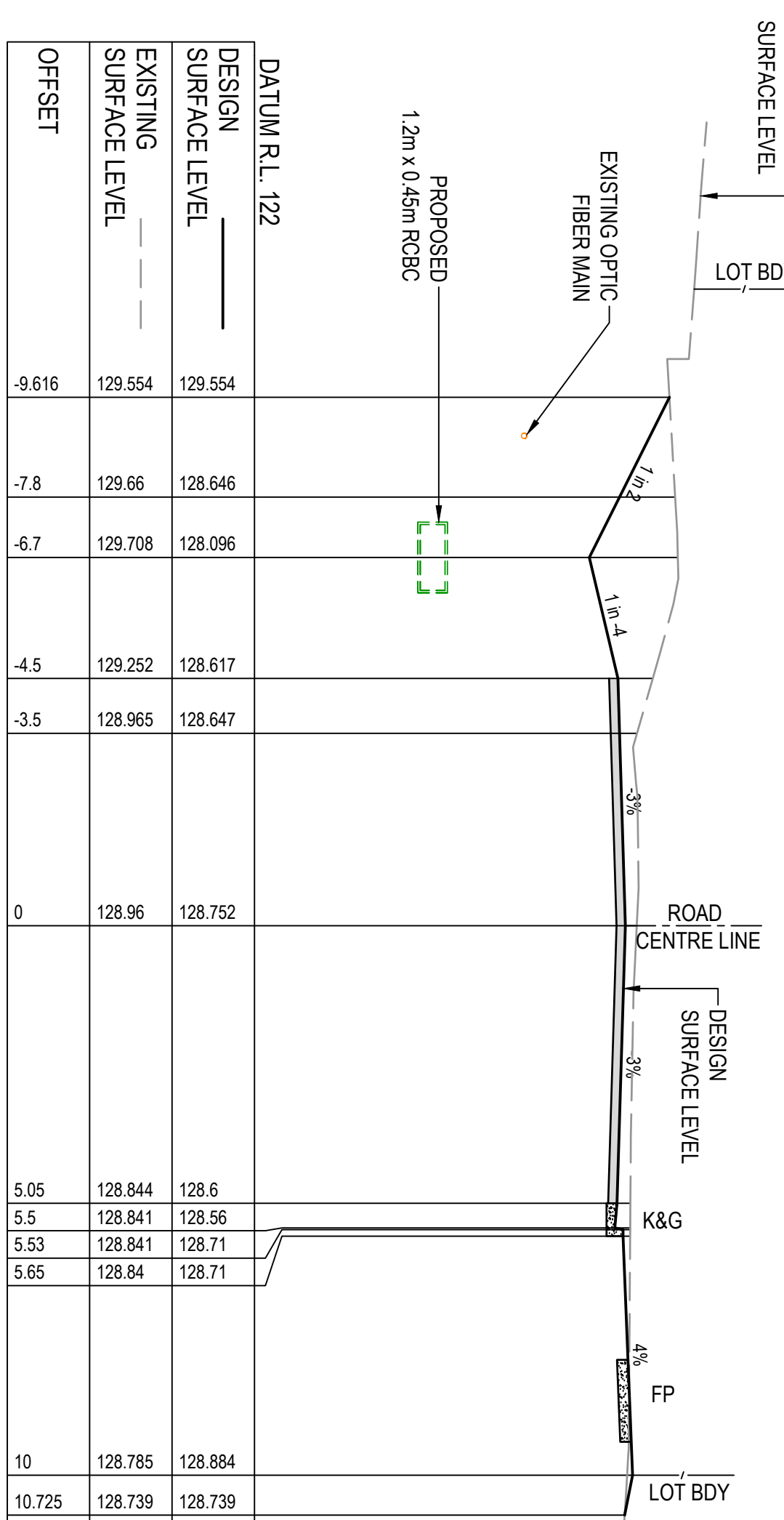
CH 615

sharon pope

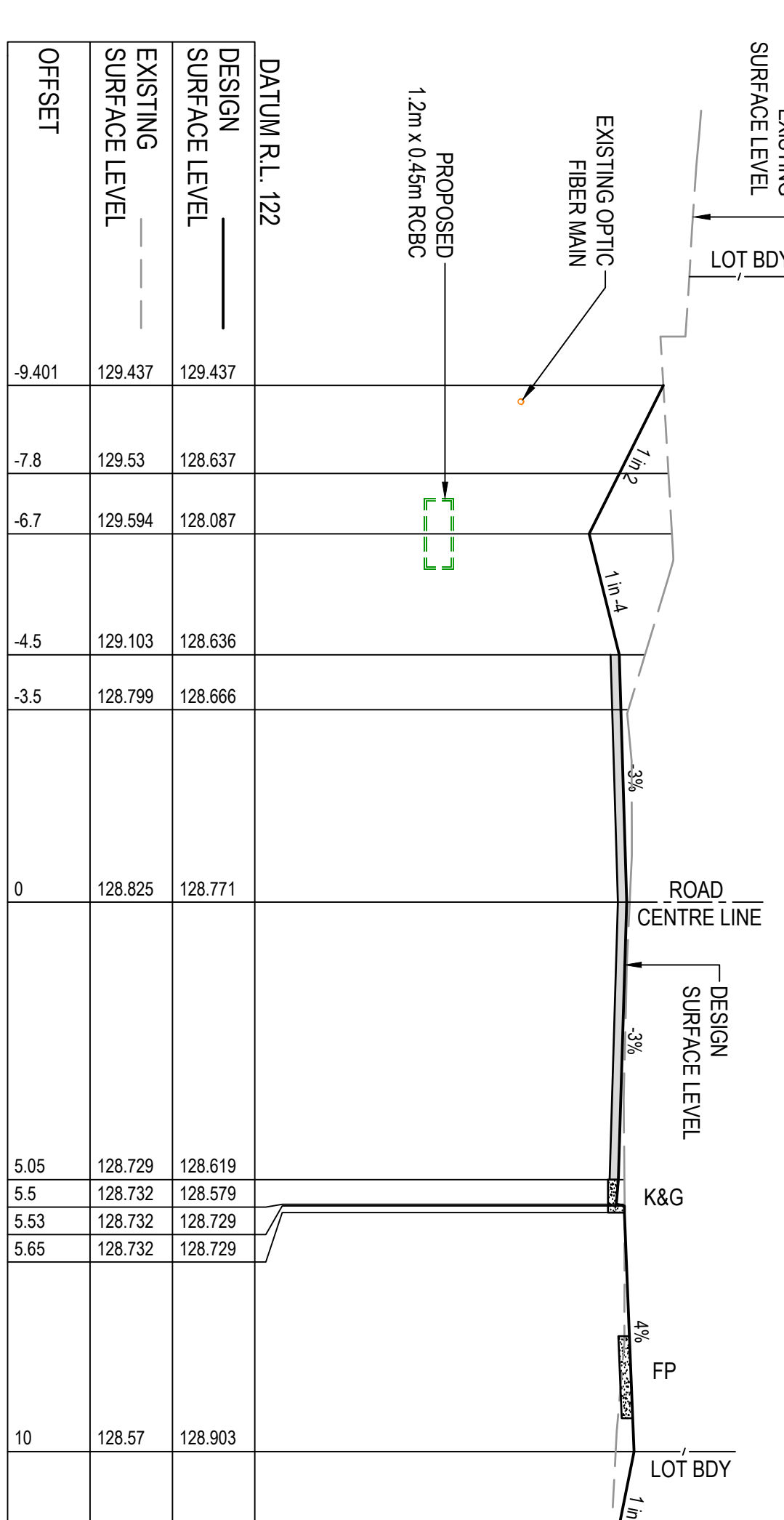
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CHINA ORIENTAL INVESTMENT DOMAIN TRUST		muswellbrook shire council		0 2 4 6 m SCALE 1:100 @ A1		PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT		ALMOND STREET CROSS SECTIONS SHEET 7	
Issue		Date		Scale		Project No.		Dwg No.	
A		28/05/2026		1:100		22048		426	
Description		J.J.B.		J.J.B.		A1		Issue	
ISSUE FOR VOLUNTARY PLANNING AGREEMENT		Design		Checked				A	
Total sheet no.		100m		200m					



CH 735

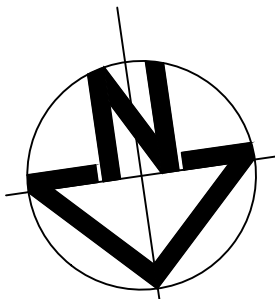


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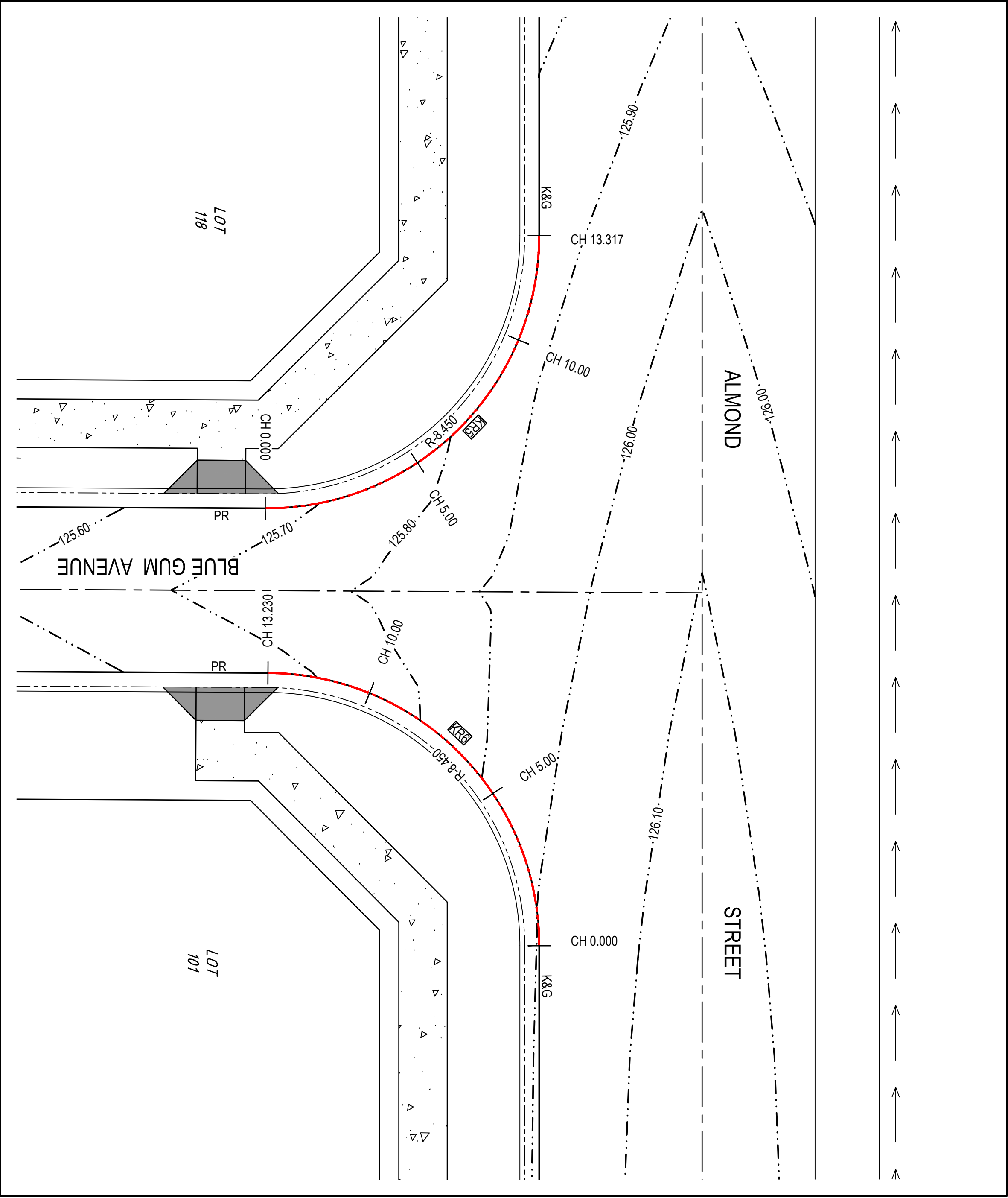
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sharon pope



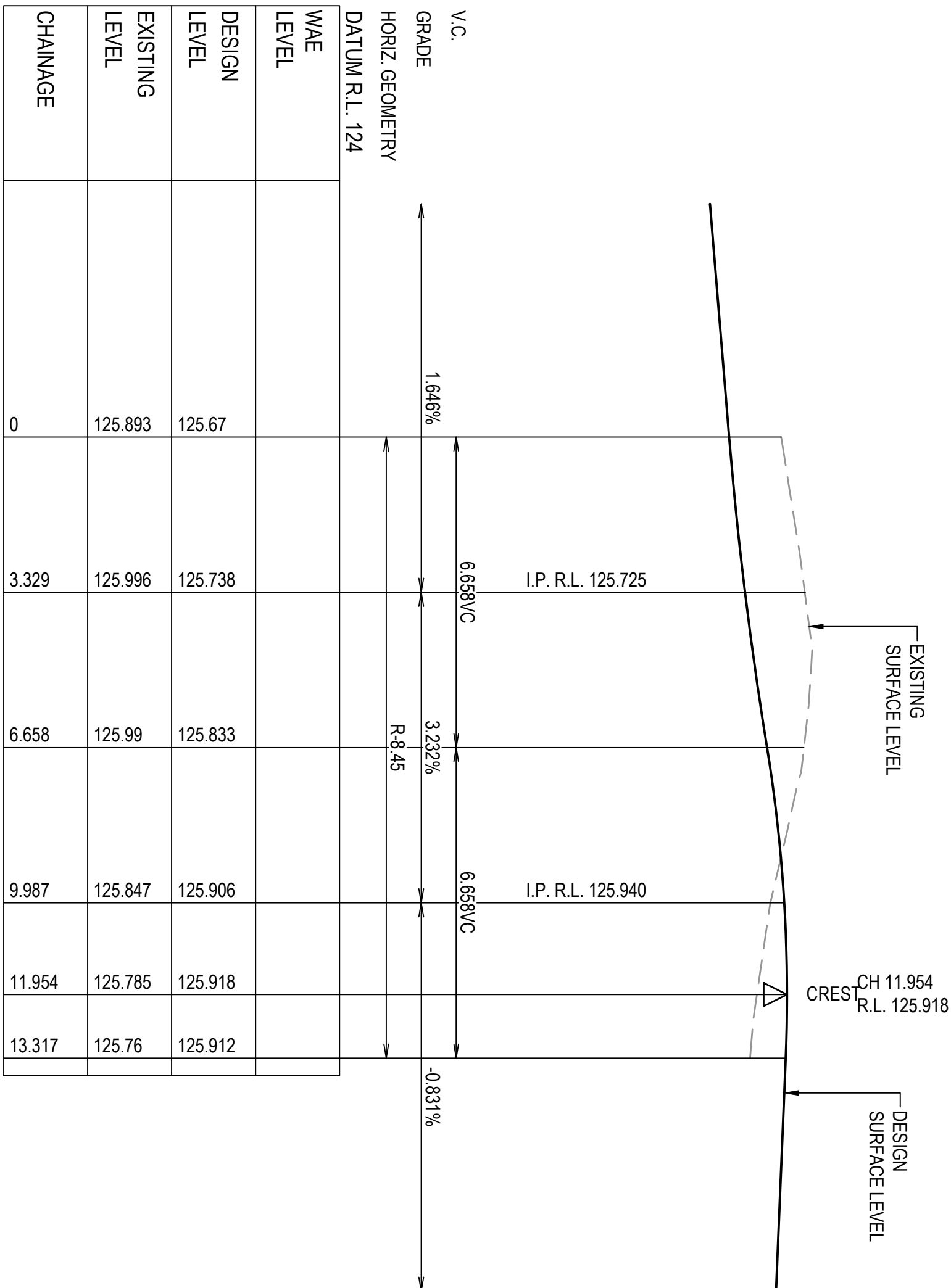
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- PROPOSED ROLLER KERB
- PROPOSED ROAD CENTERLINE
- PROPOSED CONTROL LINE
- PROPOSED DESIGN CONTOURS
- PROPOSED SWALE
- PROPOSED KERB RETURN
- PROPOSED CONCRETE FOOTPATH
- PROPOSED PRAM RAMP

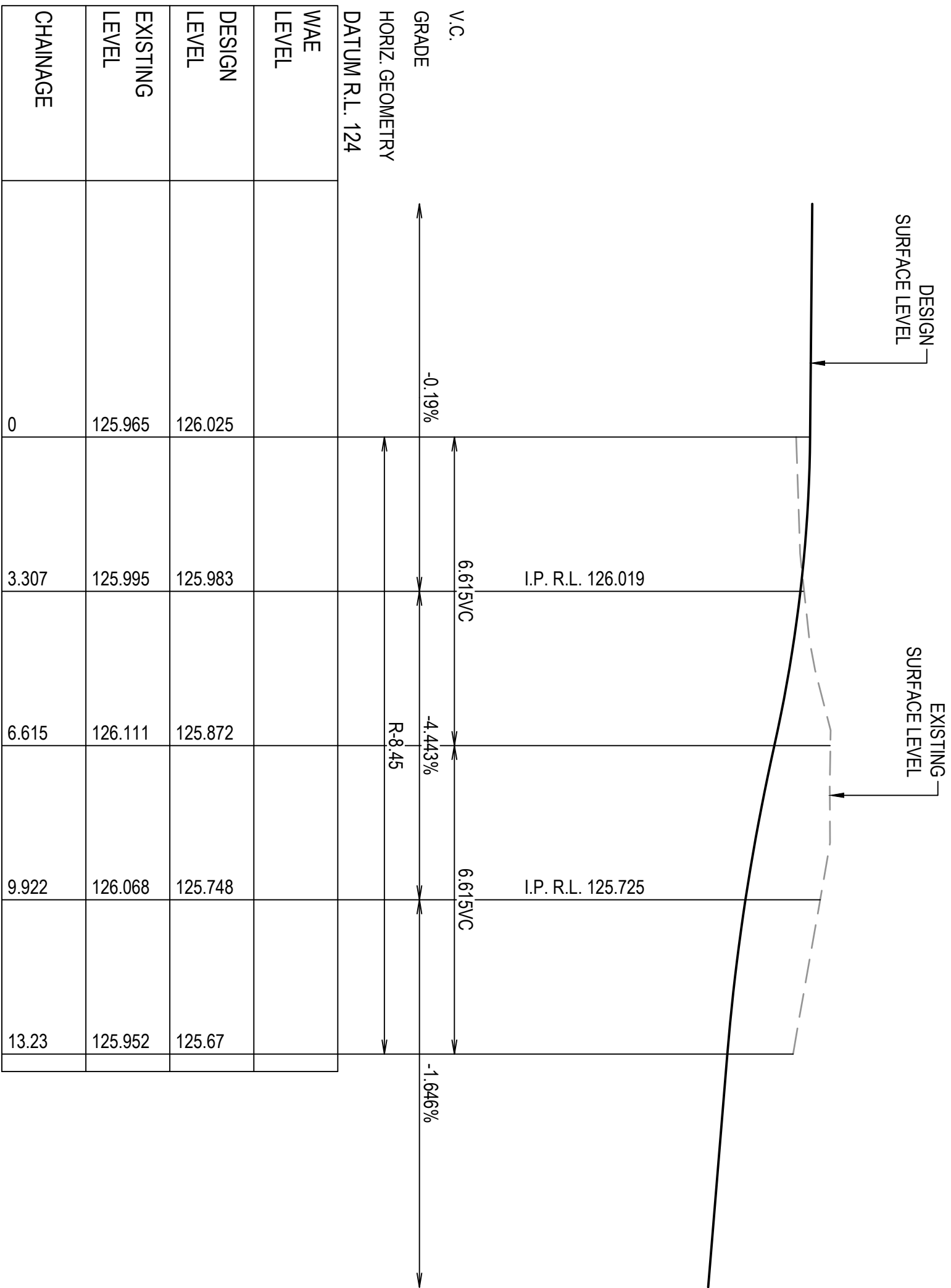


KERB RETURN 5 SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	HEIGHT
IP 1	0.000	282079.749	6415325.151	125.670
IP 2	6.658	282071.346	6415326.396	125.833
IP 3	13.317	282070.146	6415317.988	125.912

KERB RETURN 6 SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	HEIGHT
IP 1	0.000	282073.258	6415339.767	126.025
IP 2	6.615	282072.069	6415331.445	125.872
IP 3	13.230	282080.385	6415330.213	125.670



KERB RETURN 5 - LONGITUDINAL SECTION - (BLUE GUM AVENUE - ALMOND STREET)



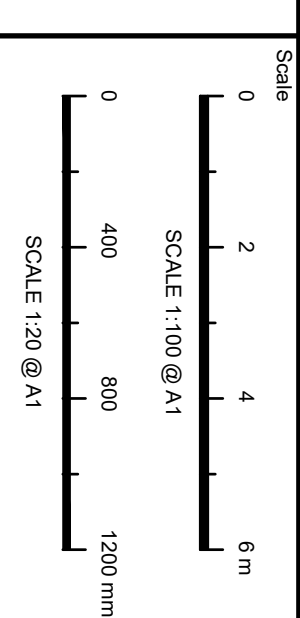
KERB RETURN 6 - LONGITUDINAL SECTION - (ALMOND STREET - BLUE GUM AVENUE)

Issue		Description		Date		Design		Checked	
A		ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026		J.J.B.		J.A.B.	
10m		10m		10m		10m		10m	

Confession by Mr. Mogens Borge
B.E., M.E. (Res), Ph.D., F.I.E. Austral., CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

Council
muswellbrook
shire council



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CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street, Parramatta NSW 2150
Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title		Scale		Project No.		Dwg No.		Issue	
INTERSECTION AND KERB RETURN DETAILS SHEET 1		A1		22048		500		A	

drawn paper

KERB RETURN 7 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RADSPIRAL	AL LENGTH	DEFL ANGLE
IP 1	0.000	282108.900	6415454.015	126.226	278°07'53.00"			
IP 2	3.779	282106.139	6415454.562	126.311		R = 30.450	7.559	14°13'22.09"
CC	7.559	282101.362	6415454.149	126.375	263°54'30.91"			
IP 3	13.098	282095.491	6415453.522	126.430		R = -12.950	11.079	49°01'01.92"
CC	16.638	282092.114	6415448.680	126.439	214°53'29.00"			
IP 4	25.748	282087.971	6415442.739	126.390		R = 30.450	14.222	26°45'36.00"
IP 5	32.859	282086.946	6415435.568	126.275	188°07'53.00"			

KERB RETURN 8 SETOUT TABLE

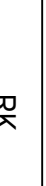
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RADSPIRAL	AL LENGTH	DEFL ANGLE
IP 1	0.000	282095.471	6415495.231	127.283	188°07'53.00"			
IP 2	24.247	282091.149	6415464.983	126.839		R = 31.450	48.493	88°20'41.81"
CT	48.493	282121.259	6415459.790	125.975	99°47'11.19"			
IP 3	61.146	282133.728	6415457.639	125.617	99°47'11.19"			

LEGEND





K&G



RK



PROPOSED ROLLER KERB



PROPOSED ROAD CENTRELINE



PROPOSED DESIGN CONTROL LINE



PROPOSED KERB RETURN



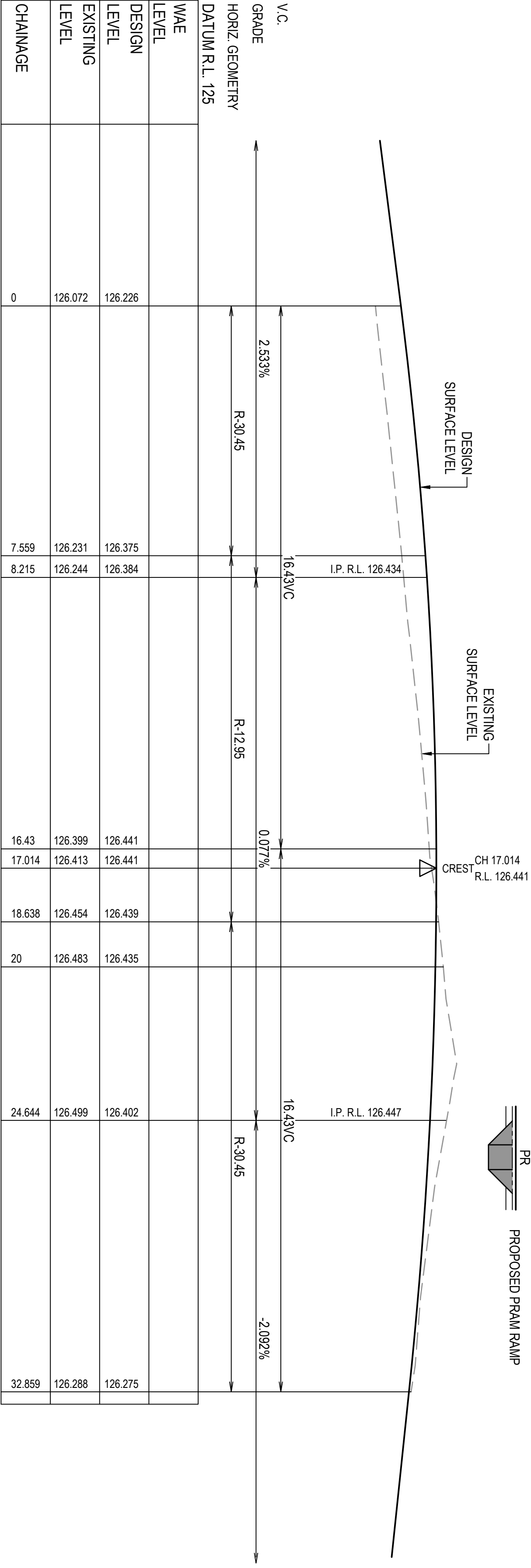
PROPOSED KERB INLET PIT



PROPOSED CONCRETE FOOTPATH

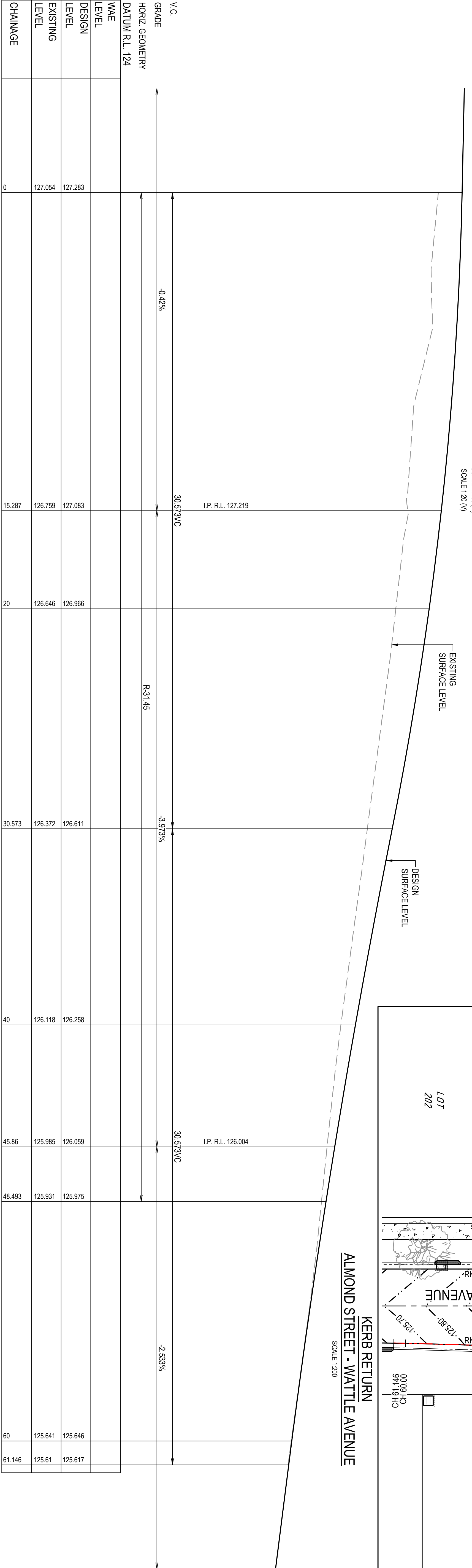


PROPOSED PRAM RAMP



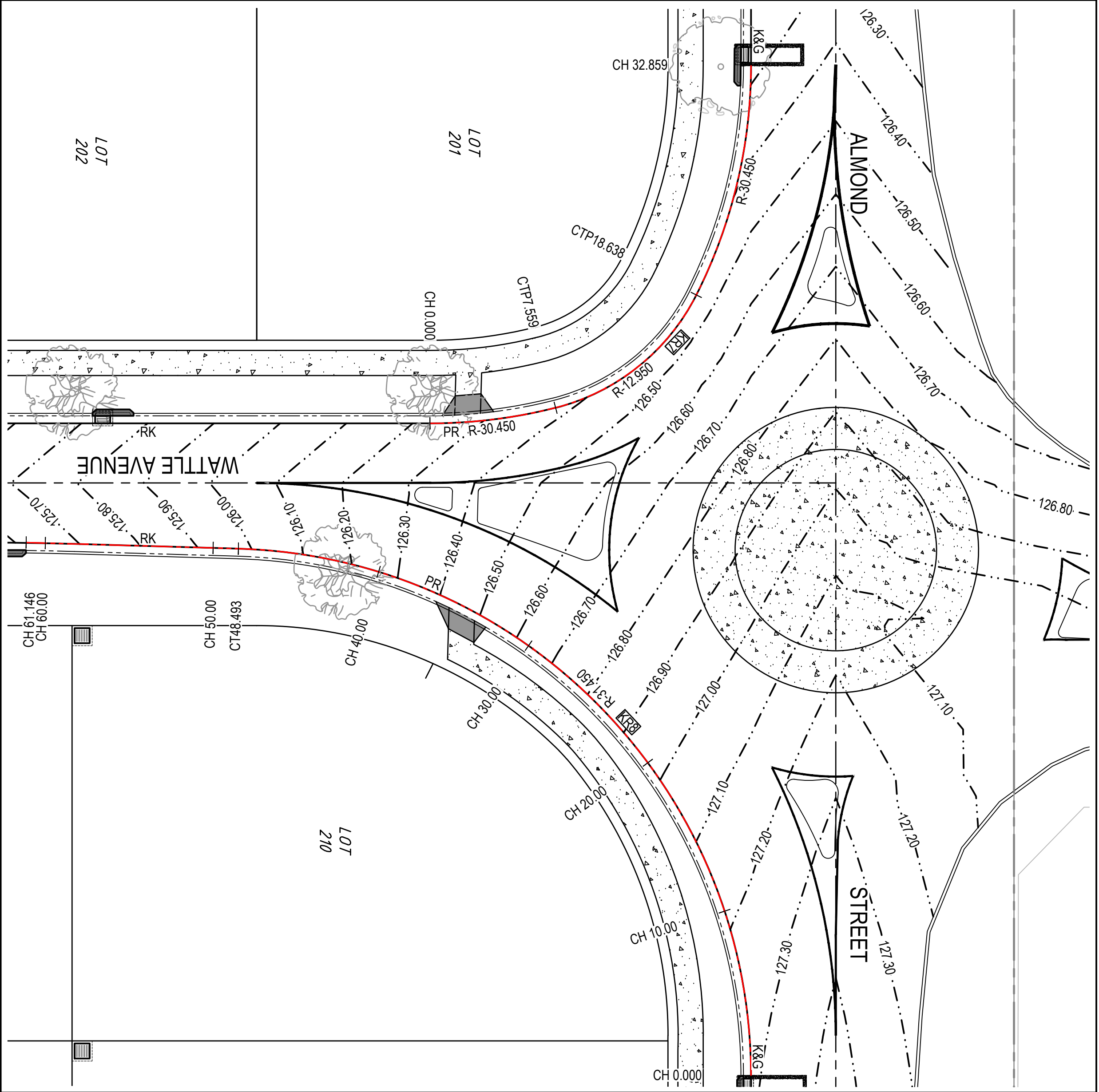
CHAINAGE	0	7.559	8.215	16.43	17.014	18.638	20	24.644	32.859
WAE LEVEL									
DESIGN LEVEL				126.375	126.384			126.402	126.275
EXISTING LEVEL				126.231	126.244			126.499	126.288
CHAINAGE	0	7.559	8.215	16.43	17.014	18.638	20	24.644	32.859

KERB RETURN 7 - LONGITUDINAL SECTION - (WATTLE AVENUE - ALMOND STREET)



CHAINAGE	0	15.287	20	30.573	40	45.86	48.493	60	61.146
WAE LEVEL									
DESIGN LEVEL				126.083	126.966			126.611	126.258
EXISTING LEVEL				126.759	126.646			126.372	126.118
CHAINAGE	0	15.287	20	30.573	40	45.86	48.493	60	61.146

KERB RETURN 8 - LONGITUDINAL SECTION - (ALMOND STREET - WATTLE AVENUE)



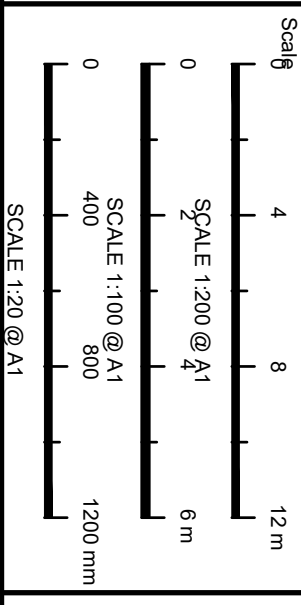
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Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.L.B.	J.A.B.

Prepared by: Mr. J. L. B. J. A. B.
Civil & Structural Engineer

Client: CHINA ORIENTAL INVESTMENT DOMAIN TRUST

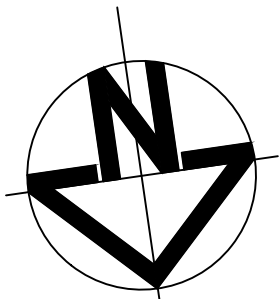
Council: muswellbrook shire council



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Level 14, 32 Smith Street, Enrol : info@telfordcivil.com.au
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PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

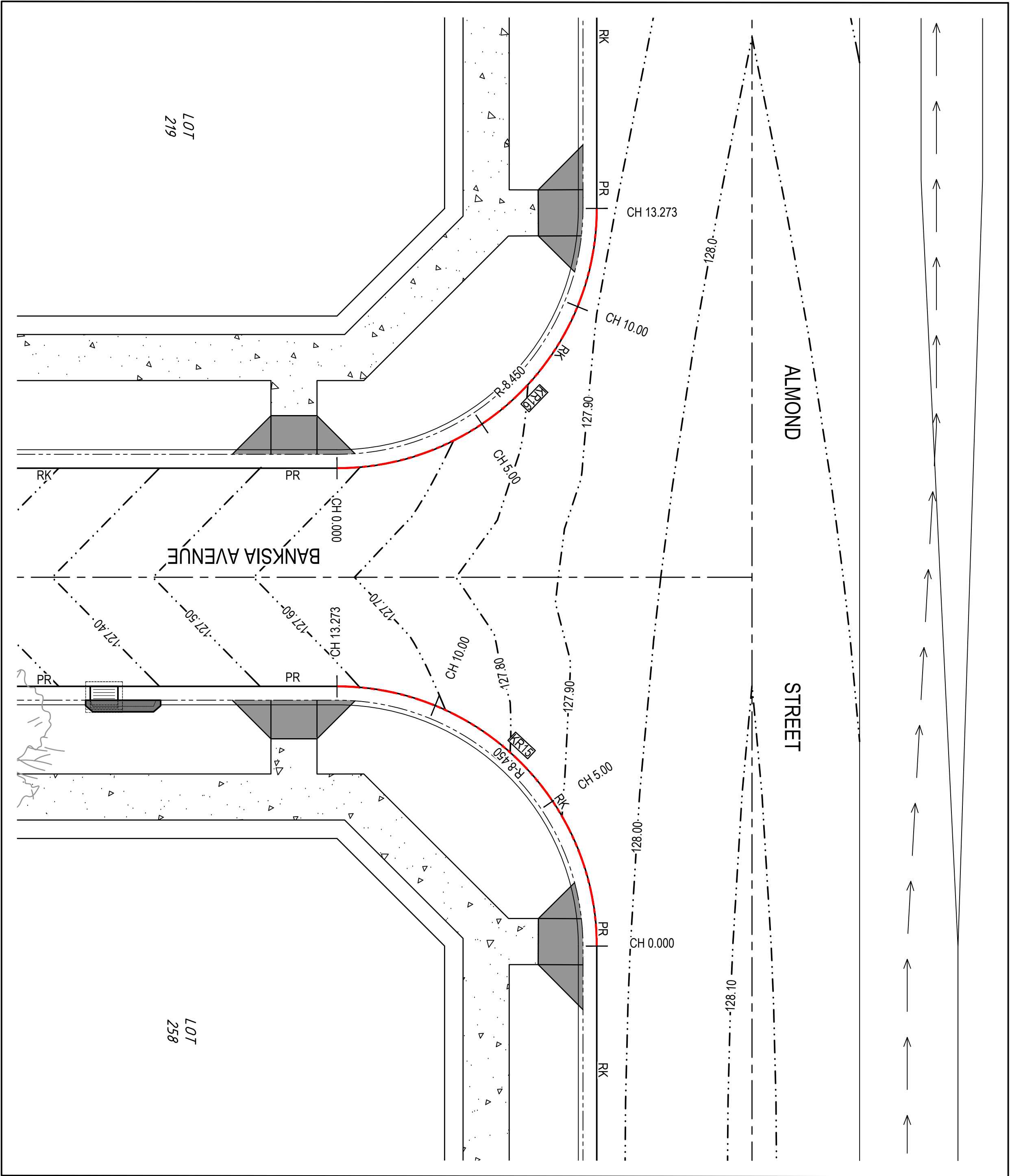
Project: PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title	INTERSECTION AND KERB RETURN DETAILS
Scale	AS SHOWN
Project No.	22048
Dwg No.	501
Issue	A



LEGEND

-

KERB RETURN 15 SETOUT TABLE

PT	CHAINAGE	FEASTING	NORTHING	HEIGHT	BEARING	RADIUS/SPRAL	A LENGTH	DEF. ANGLE
IP 1	0.000	282.26.068	645703.379	127.867	188°07'53.00"			
IP 2	6.637	282.124.873	645170.104	127.820		R = -8.450	13.273	90°00'00.00"
IP 3	13.273	282.33.238	641669.819	127.577	98°07'53.00"			

KERB RETURN 16 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A LENGTH	DEF. ANGLE
IP 1	0.000	282.132.234	6415662.190	127.577	278°07'53.01"			
IP 2	6.537	282.123.869	6415663.985	127.789		R = -8.450	13.273	89°59'60.00"
IP 3	13.273	282.122.674	6415665.620	127.882	188°07'53.01"			

Issue	Description	Date	J.B.	J.B.
Form at 100m			Design	Checked
			200m	
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026		

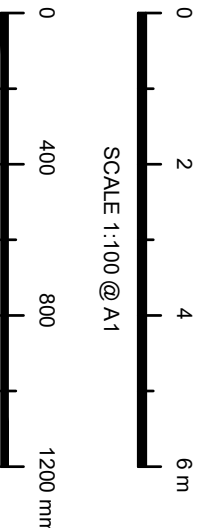
Certification By Dr. Michel Chaaya
B.E., M.E. (Res), Ph.D., F.I.E Aust., CPEng,
Civil & Structural Engineer



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Scales



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Project
P

PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

our day

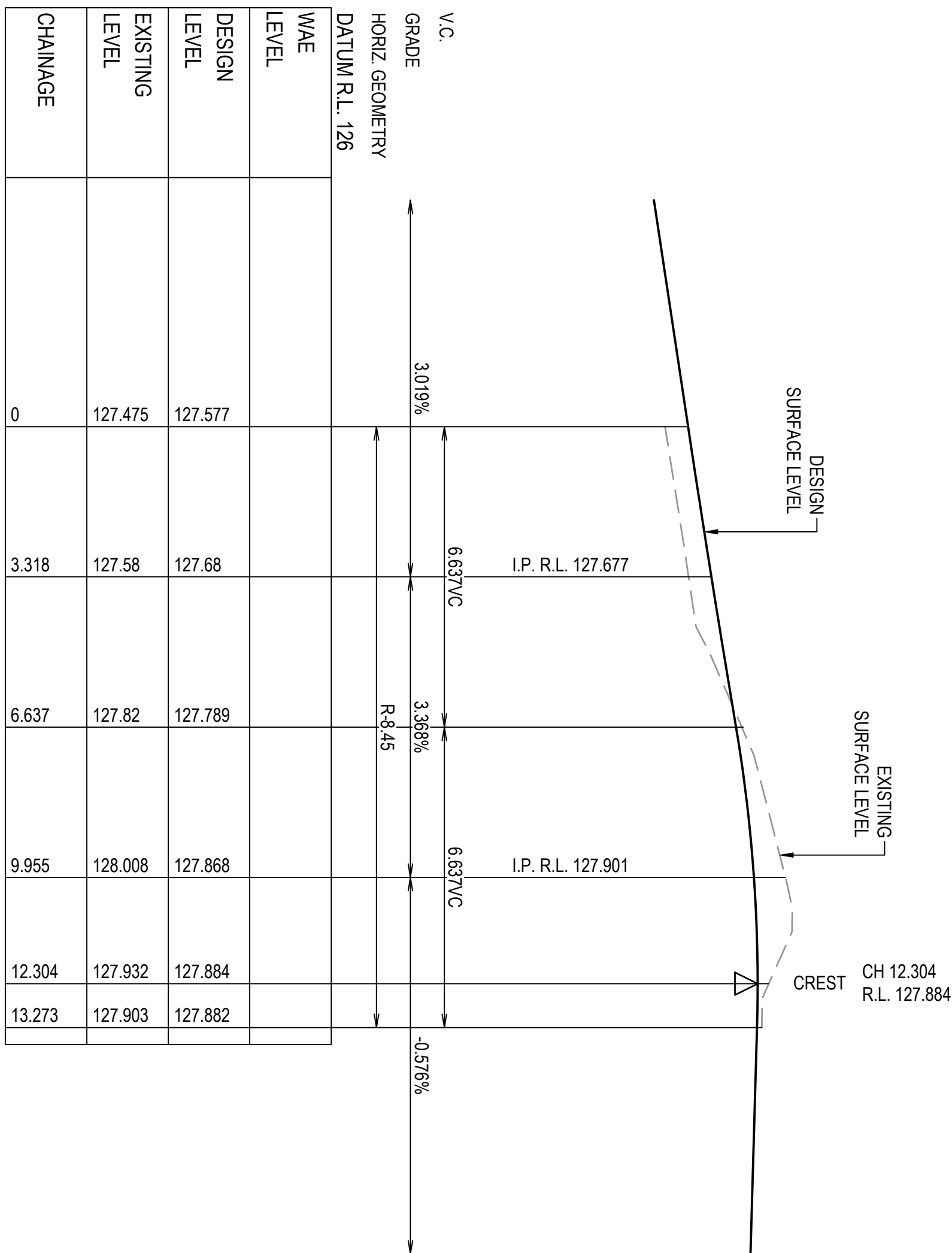
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Scale	AS SHOW

Scale A1
AS SHOWN

22048

502

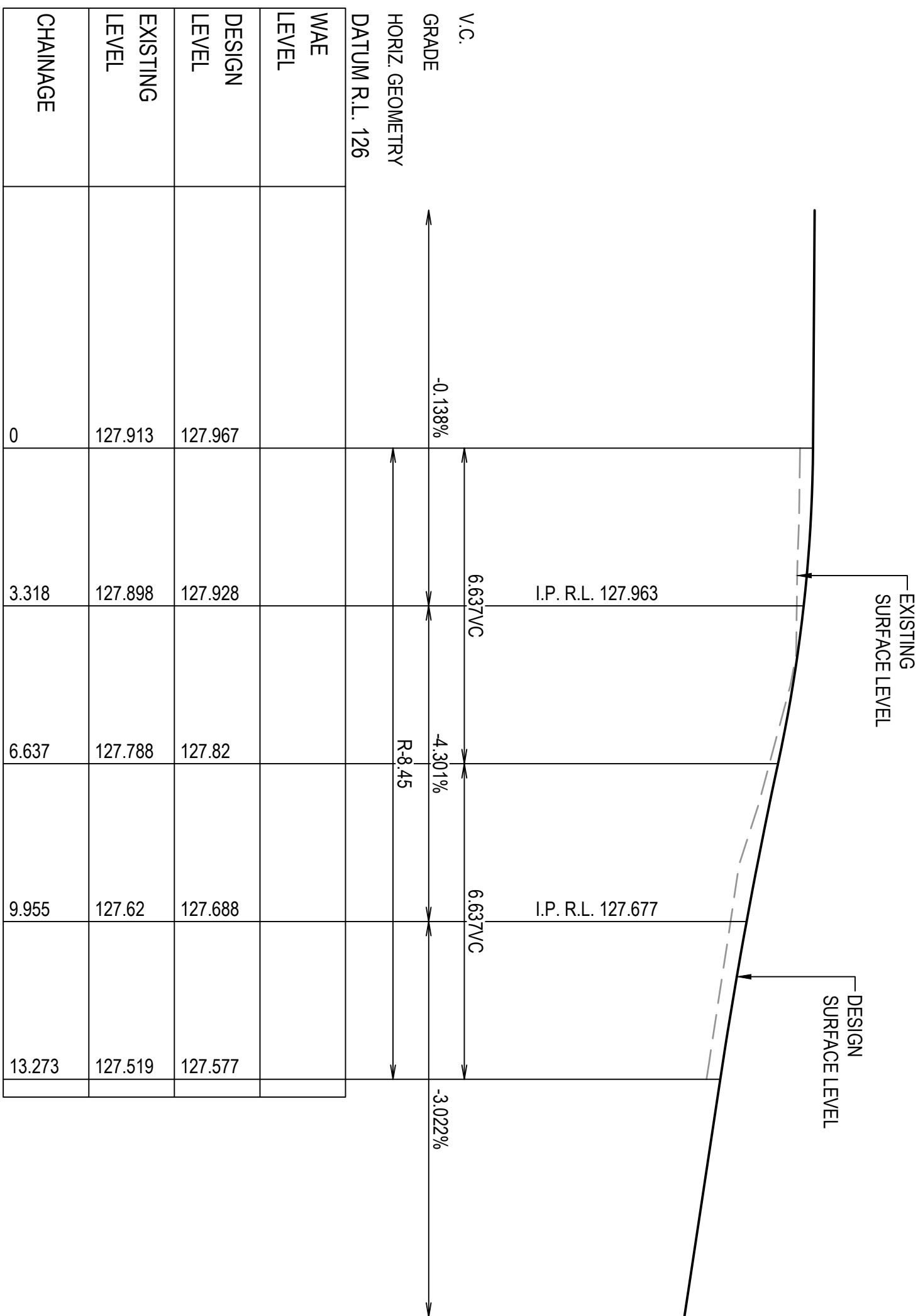
Issue
A



WALKERB RETURN 16 - LONGITUDINAL SECTION - (BANKSIA AVENUE - ALMOND STREET)

SCALE 1:100 (H)
SCALE 1:20 (V)

SCALE 1:20 (V)

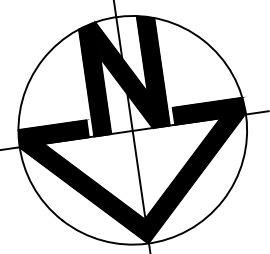


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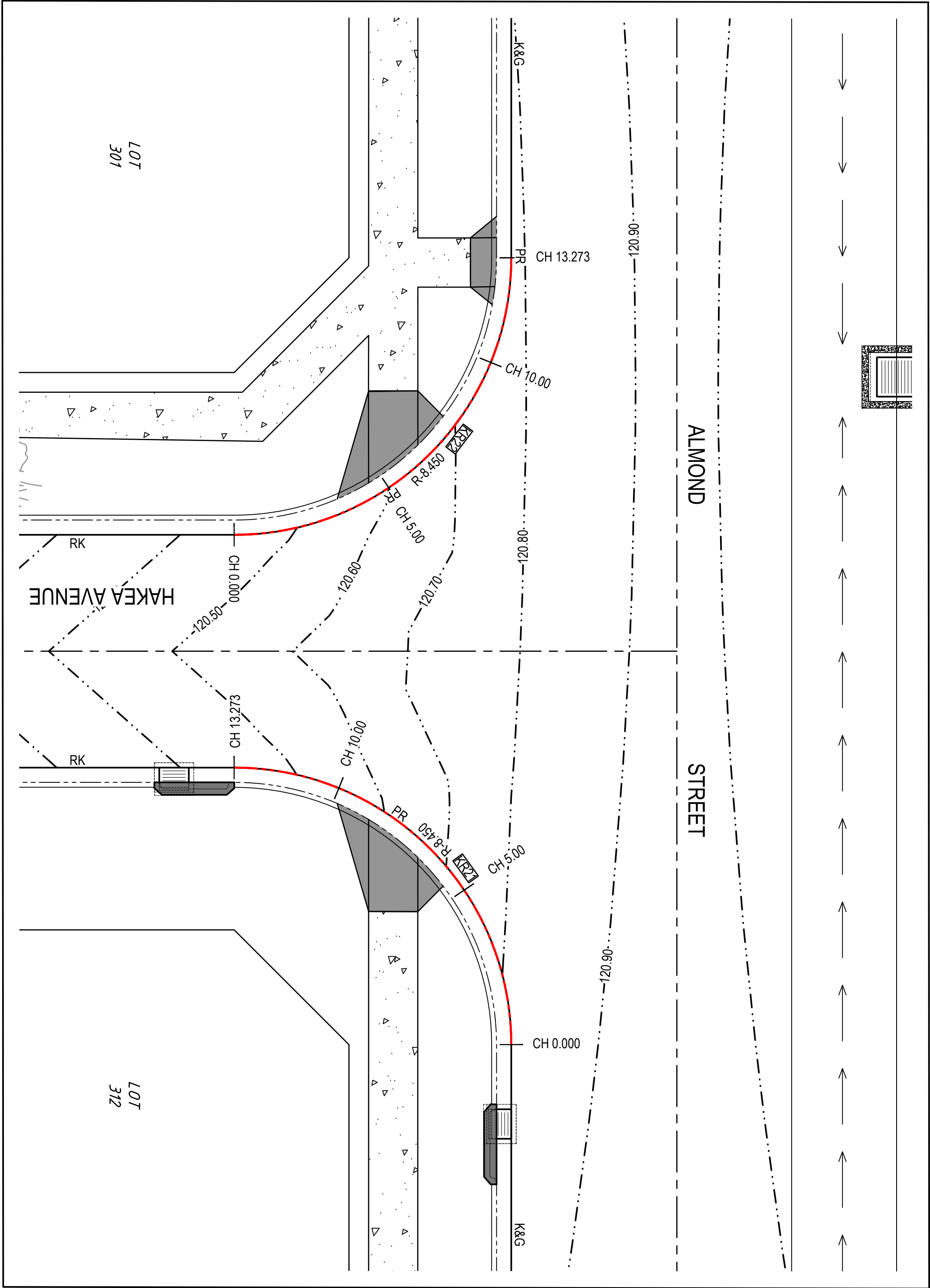
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LEGEND

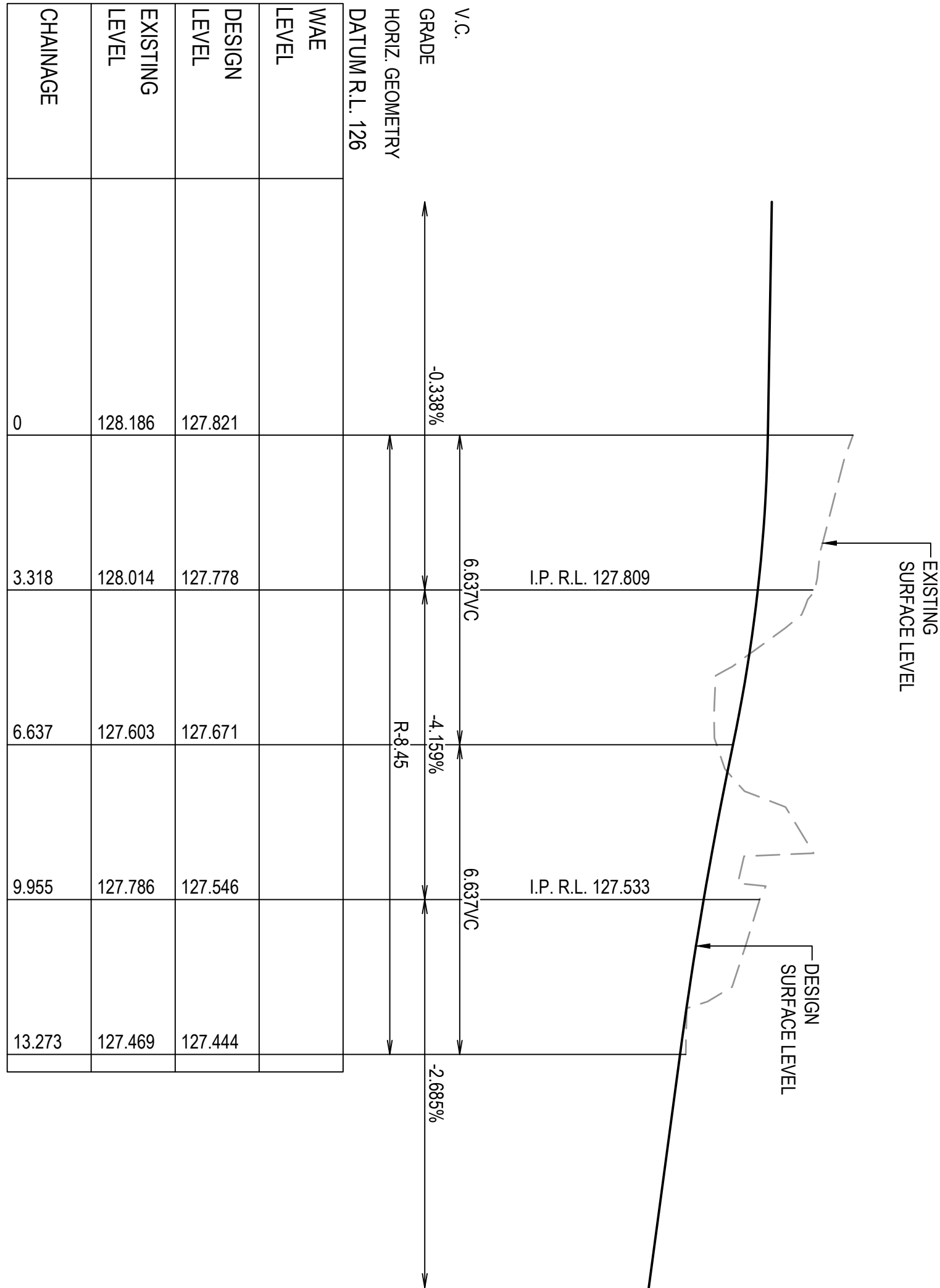
- PROPOSED KERB & GUTTER
- PROPOSED ROLLER KERB
- PROPOSED ROAD CENTERLINE
- PROPOSED CONTROL LINE
- PROPOSED DESIGN CONTOURS
- PROPOSED SWALE
- PROPOSED KERB RETURN
- PROPOSED KERB INLET PIT
- PROPOSED GRATED PIT
- PROPOSED CONCRETE FOOTPATH
- PROPOSED PRAM RAMP



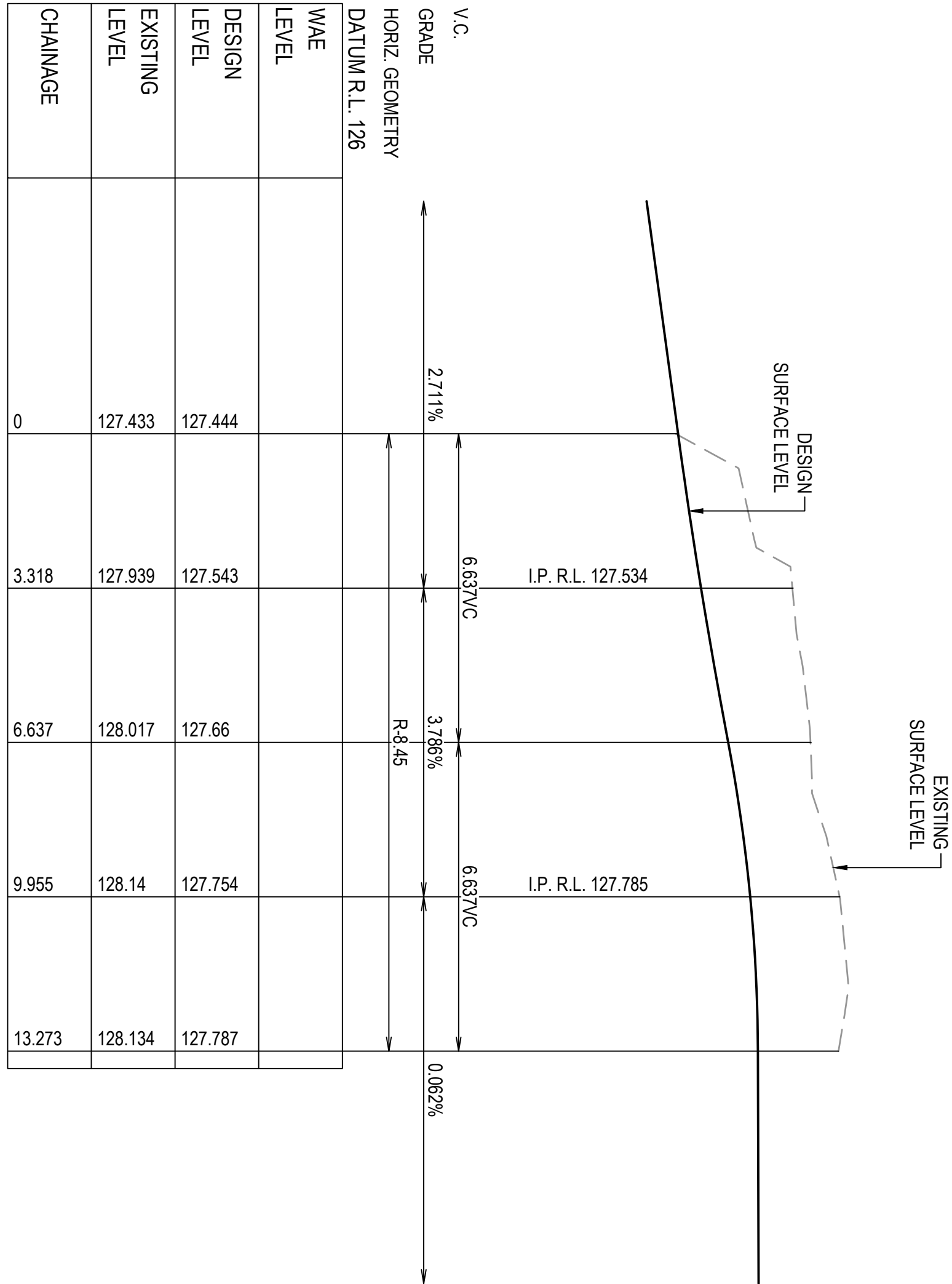
KERB RETURN
HAKEA AVENUE - ALMOND STREET
SCALE 1:100

KERB RETURN 21 SETOUT TABLE					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	282139.327	6415802.176	127.821	188°07'53.00"
IP 2	6.637	282138.132	6415793.811	127.671	R = 8.450
IP 3	13.273	282146.497	6415792.616	127.444	98°07'52.99"

KERB RETURN 22 SETOUT TABLE					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	282146.493	6415785.587	127.444	278°07'53.01"
IP 2	6.637	282137.128	6415786.782	127.660	R = 8.450
IP 3	13.273	282135.932	6415778.417	127.787	188°07'53.01"



KERB RETURN 21 - LONGITUDINAL SECTION - (ALMOND STREET - HAKEA AVENUE)
SCALE 1:100 (H)
SCALE 1:20 (V)



KERB RETURN 22 - LONGITUDINAL SECTION - (HAKEA AVENUE - ALMOND STREET)
SCALE 1:100 (H)
SCALE 1:20 (V)

A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.J.B.	J.A.B.	
Issue	Description	Date	Design	Checked	
1m	10m	20m	30m	40m	50m

Prepared by: **Mr. J. J. B.**
B.E., M.E. (Res.), Ph.D., F.I.E. Aust., C.P.Eng.
Civil & Structural Engineer

Client: **CHINA ORIENTAL INVESTMENT DOMAIN TRUST**

Council: **muswellbrook shire council**

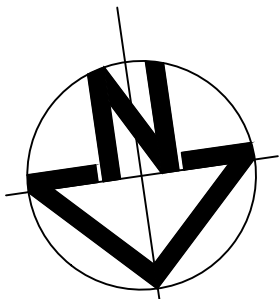
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Level 14, 32 Smith Street, Parramatta NSW 2150
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PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

Project: **PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT**

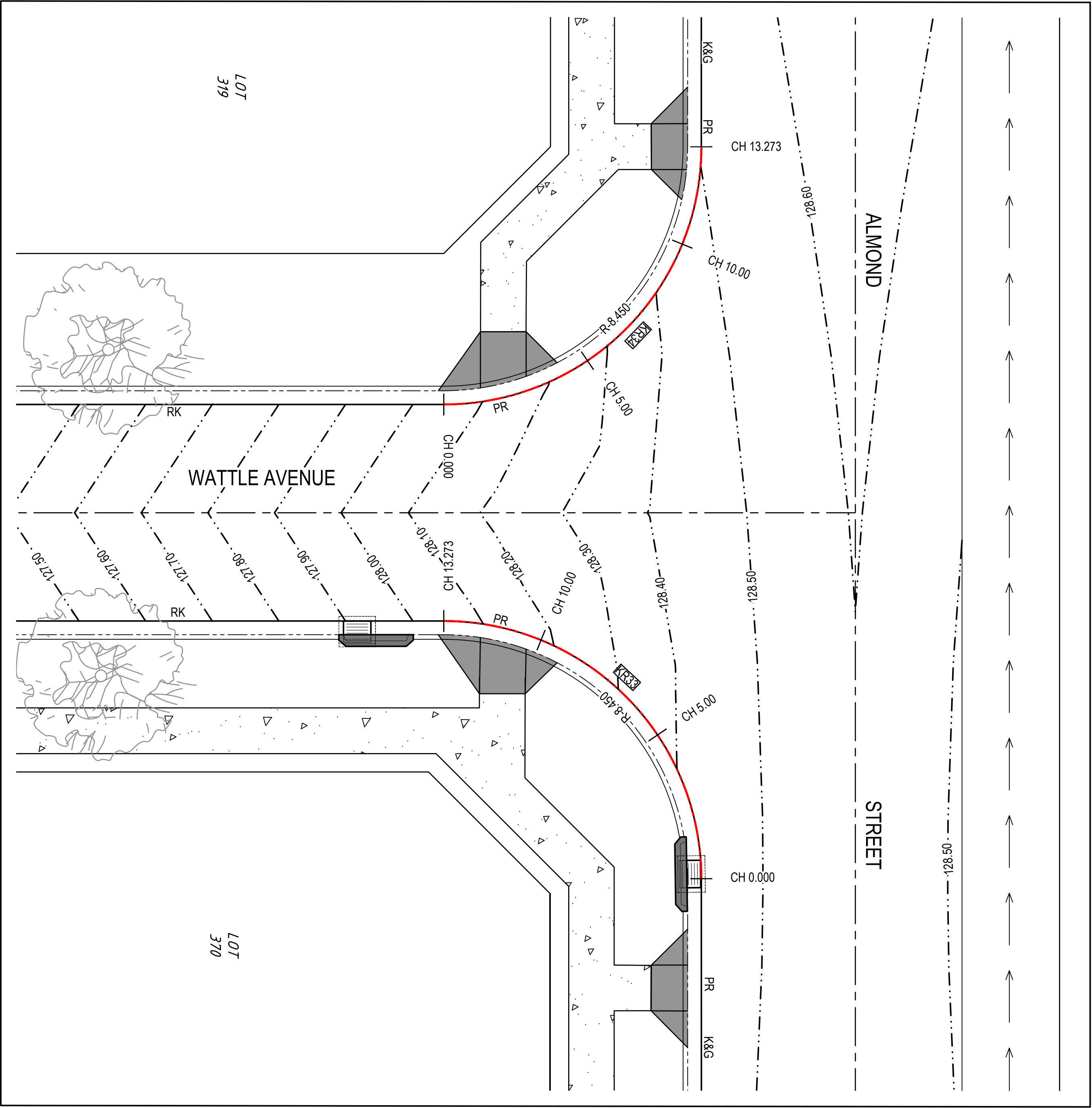
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Scale: 1:100
Project No.: 22048
Dwg No.: 503
Issue: A

almond paper



LEGEND

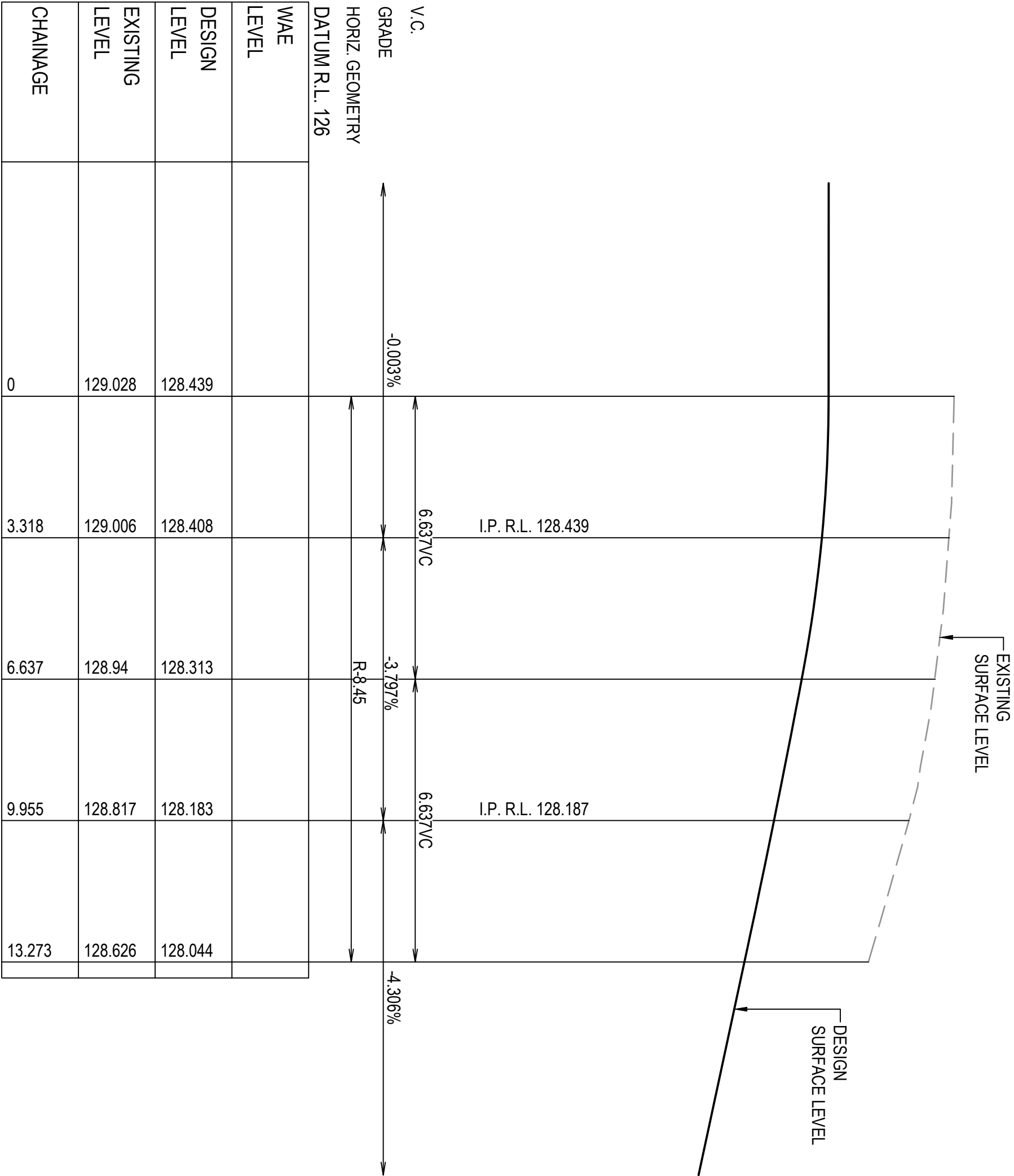
- K&G PROPOSED KERB & GUTTER
- RK PROPOSED ROLLER KERB
- PROPOSED ROAD CENTERLINE
- PROPOSED CONTROL LINE
- PROPOSED DESIGN CONTOURS
- PROPOSED SWALE
- PROPOSED KERB RETURN
- PROPOSED KERB INLET PIT
- PROPOSED CONCRETE FOOTPATH
- PROPOSED PRAM RAMP



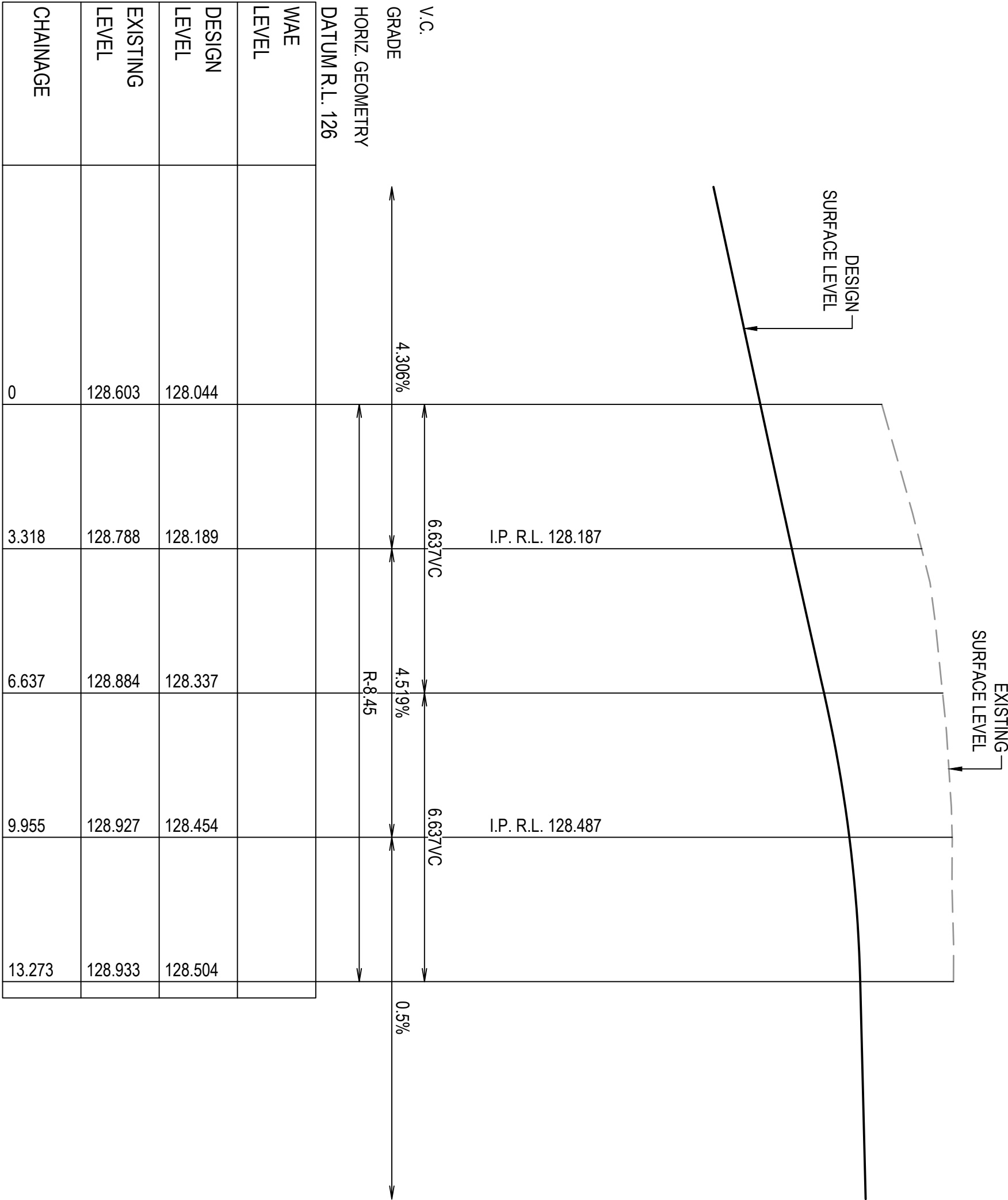
KERB RETURN
ALMOND STREET - WATTLE AVENUE

KERB RETURN 33 SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	HEIGHT
IP 1	0.000	282173.048	6416038.187	128.439
IP 2	6.637	282171.853	6416029.822	128.313
IP 3	13.273	282160.218	6416028.627	128.044

KERB RETURN 34 SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	HEIGHT
IP 1	0.000	282179.214	6416021.588	128.044
IP 2	6.637	282170.949	6416022.793	128.337
IP 3	13.273	282169.654	6416014.428	128.504



KERB RETURN 33 - LONGITUDINAL SECTION - (ALMOND STREET - WATTLE AVENUE)



KERB RETURN 34 - LONGITUDINAL SECTION - (WATTLE AVENUE - ALMOND STREET)

SCALE 1:100 (H)
SCALE 1:20 (V)

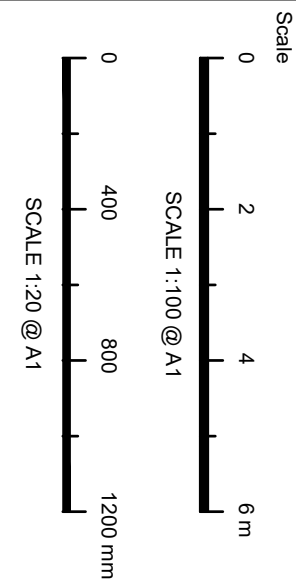
alison.pope

Issue		Description		Date		Design		Checked	
A		ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026		J.J.B.		J.A.B.	
Issue		Description		Date		Design		Checked	
1		100m		100m		100m		100m	

Confession by Mr. Alison Pope
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

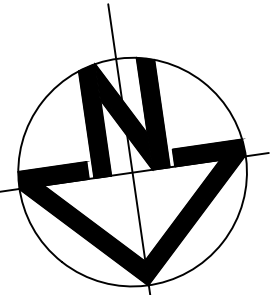
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Parramatta NSW 2150 Phone : 02 7809 4931
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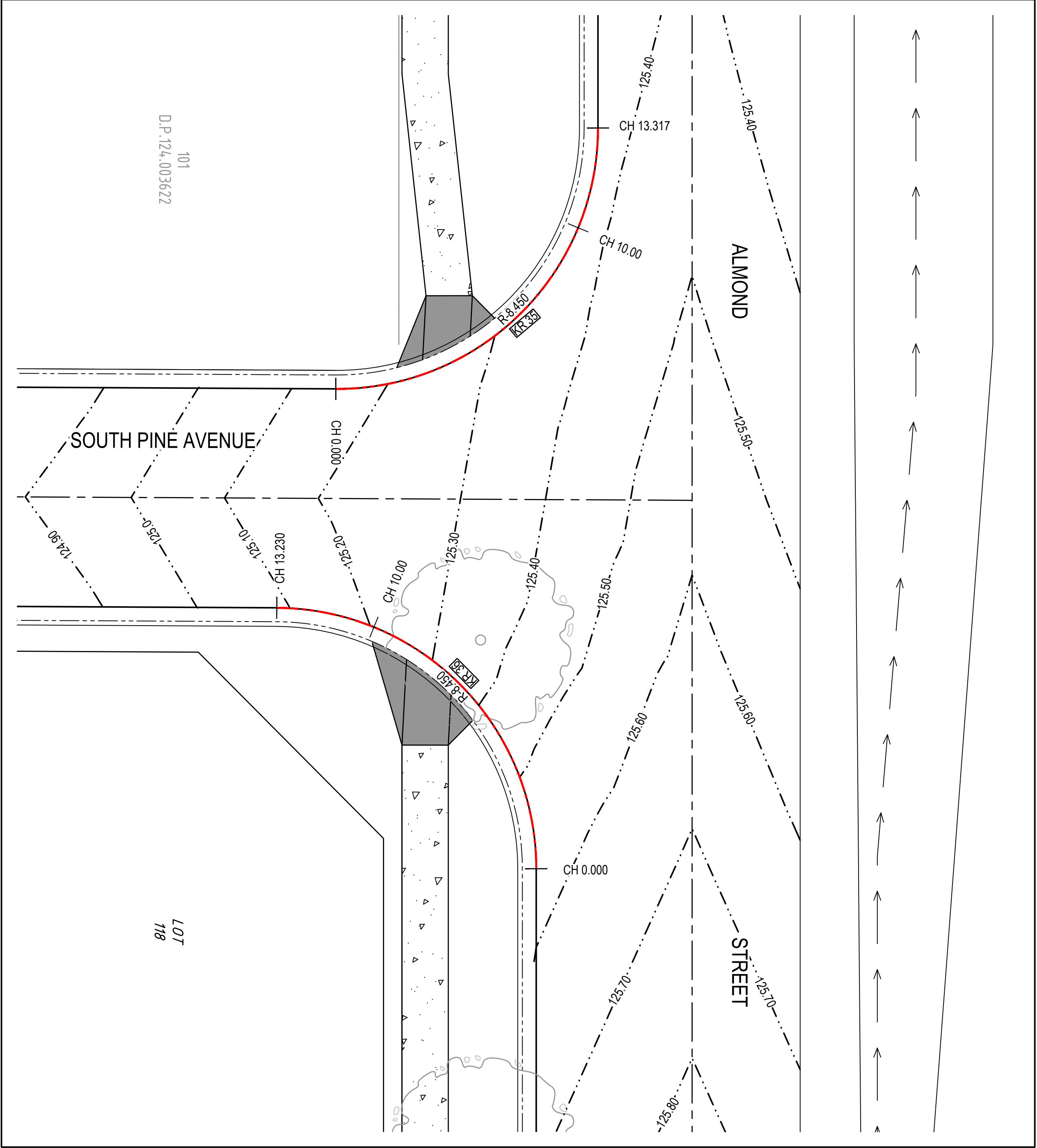
Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title		Scale		Project No.		Dwg No.		Issue	
INTERSECTION AND KERB RETURN DETAILS SHEET 5		AS SHOWN		22048		504		A	



LEGEND

- K&G PROPOSED KERB & GUTTER
- RK PROPOSED ROLLER KERB
- PROPOSED ROAD CENTERLINE
- PROPOSED CONTROL LINE
- PROPOSED DESIGN CONTOURS
- PROPOSED KERB RETURN
- PROPOSED KERB INLET PIT
- PROPOSED CONCRETE FOOTPATH



KERB RETURN
SOUTH PINE AVENUE - ALMOND STREET

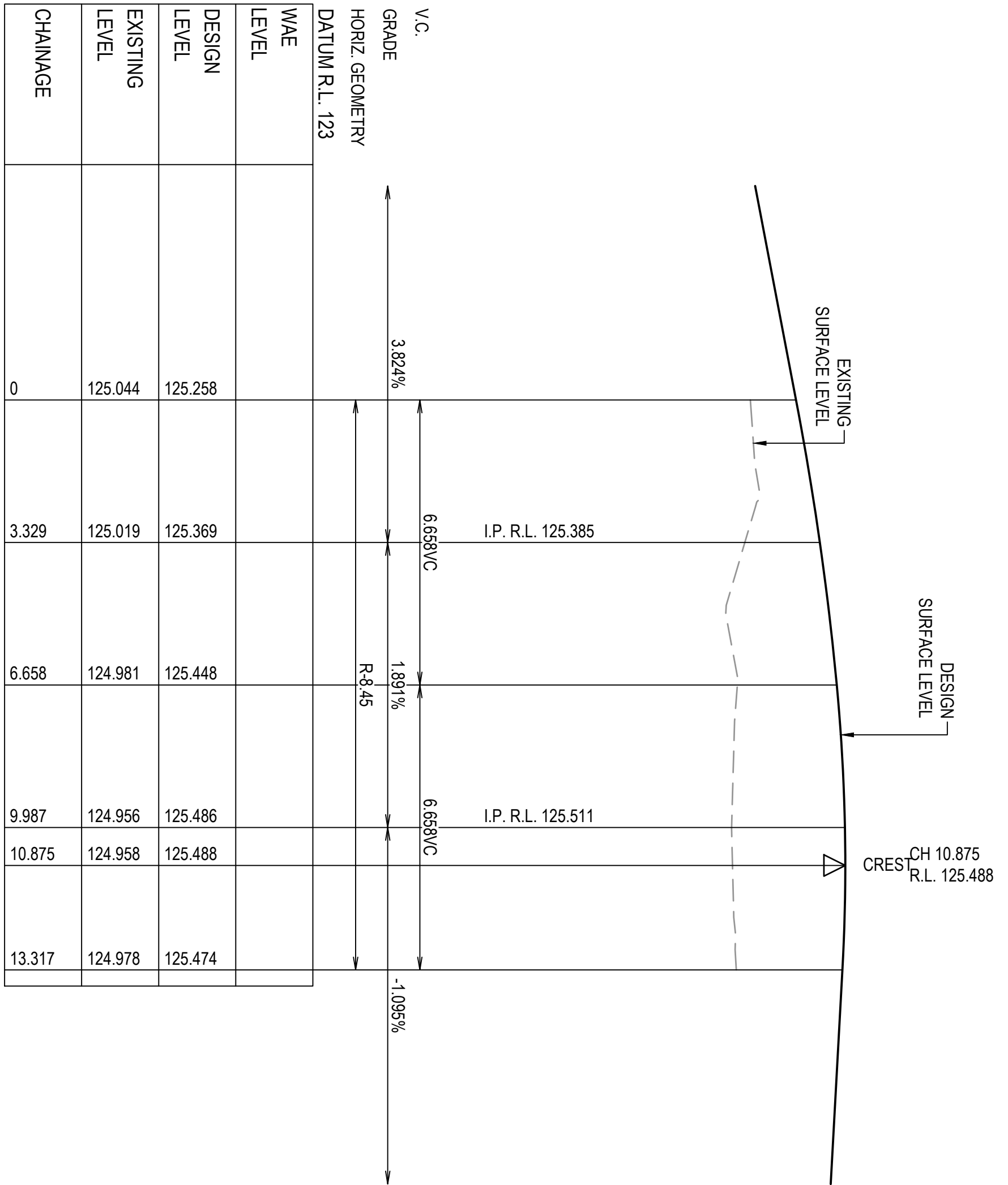
SCALE 1:100

KERB RETURN 35 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPRAL	ALENGTH	DEFL ANGLE
IP 1	0.000	282071.180	6415279.312	125.286	278°25'33.00"			
IP 2	6.668	282062.778	6415280.557	125.448		R = 8.450	13.317	90°17'40.00"
IP 3	13.317	282061.576	6415272.149	125.474	188°07'53.00"			

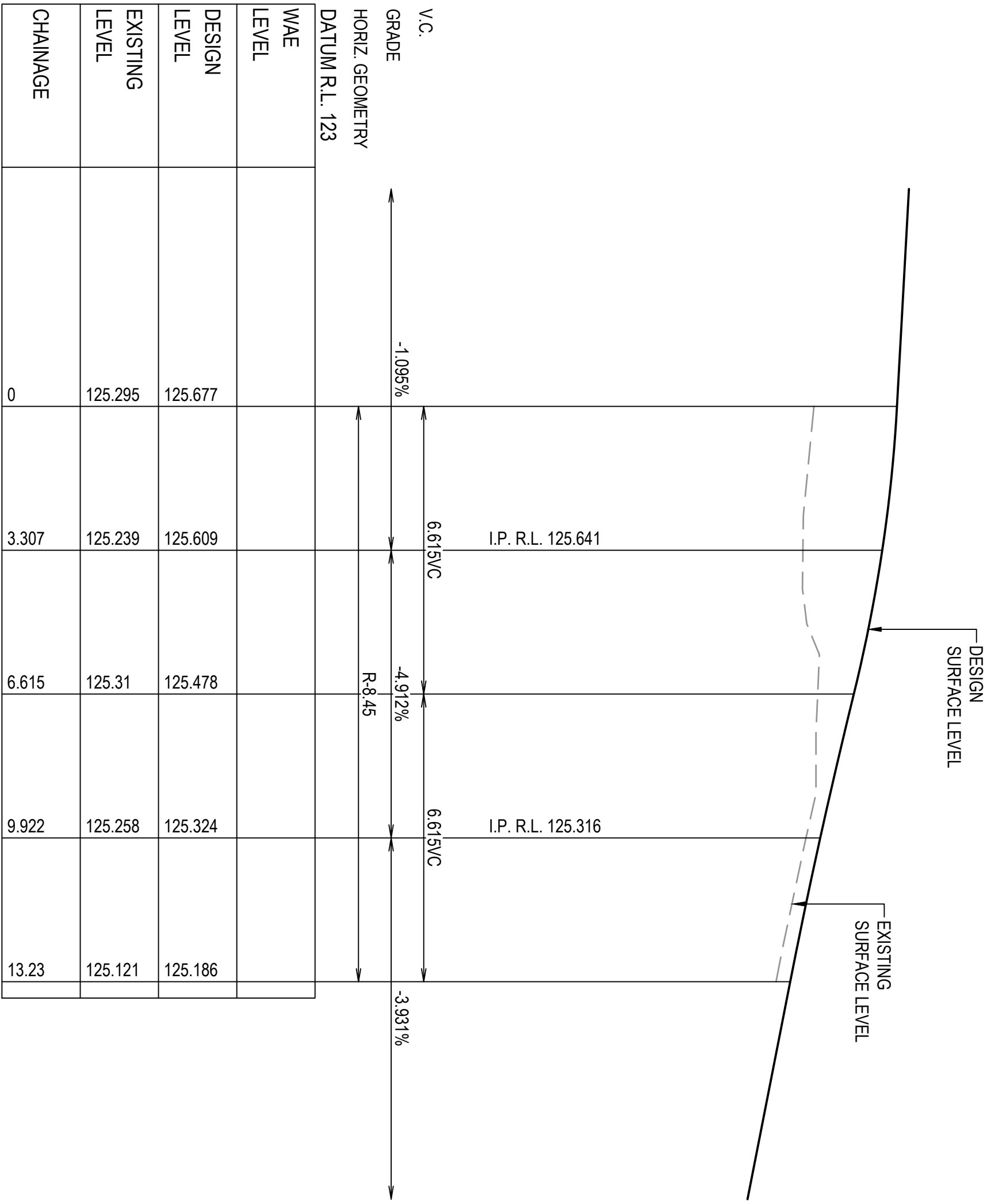
KERB RETURN 36 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPRAL	ALENGTH	DEFL ANGLE
IP 1	0.000	282066.960	6415295.615	125.677	188°07'53.00"			
IP 2	6.615	282065.761	6415287.292	125.478		R = -8.450	13.230	89°42'20.00"
IP 3	13.230	282074.076	6415286.061	125.186	98°25'33.00"			



KERB RETURN 35 - LONGITUDINAL SECTION - (SOUTH PINE AVENUE - ALMOND STREET)

SCALE 1:100 (H)
SCALE 1:20 (V)



KERB RETURN 36 - LONGITUDINAL SECTION - (ALMOND STREET - SOUTH PINE AVENUE)

SCALE 1:100 (H)
SCALE 1:20 (V)

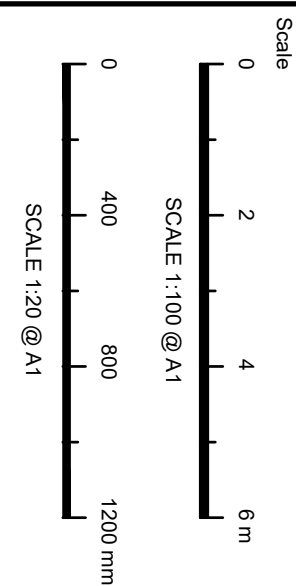
drawn paper

Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.J.B.	J.A.B.

Confession by Mr. James B. B. E. M. E. (Real) P. D. F. E. A. A. A. C. P. E. G.
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

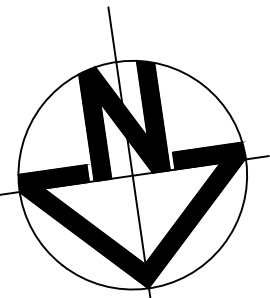
Council
muswellbrook
shire council



TEL FORD
civil
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street, Parramatta NSW 2150
Phone : 02 7809 4931
Email : info@telfordcivil.com.au
PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

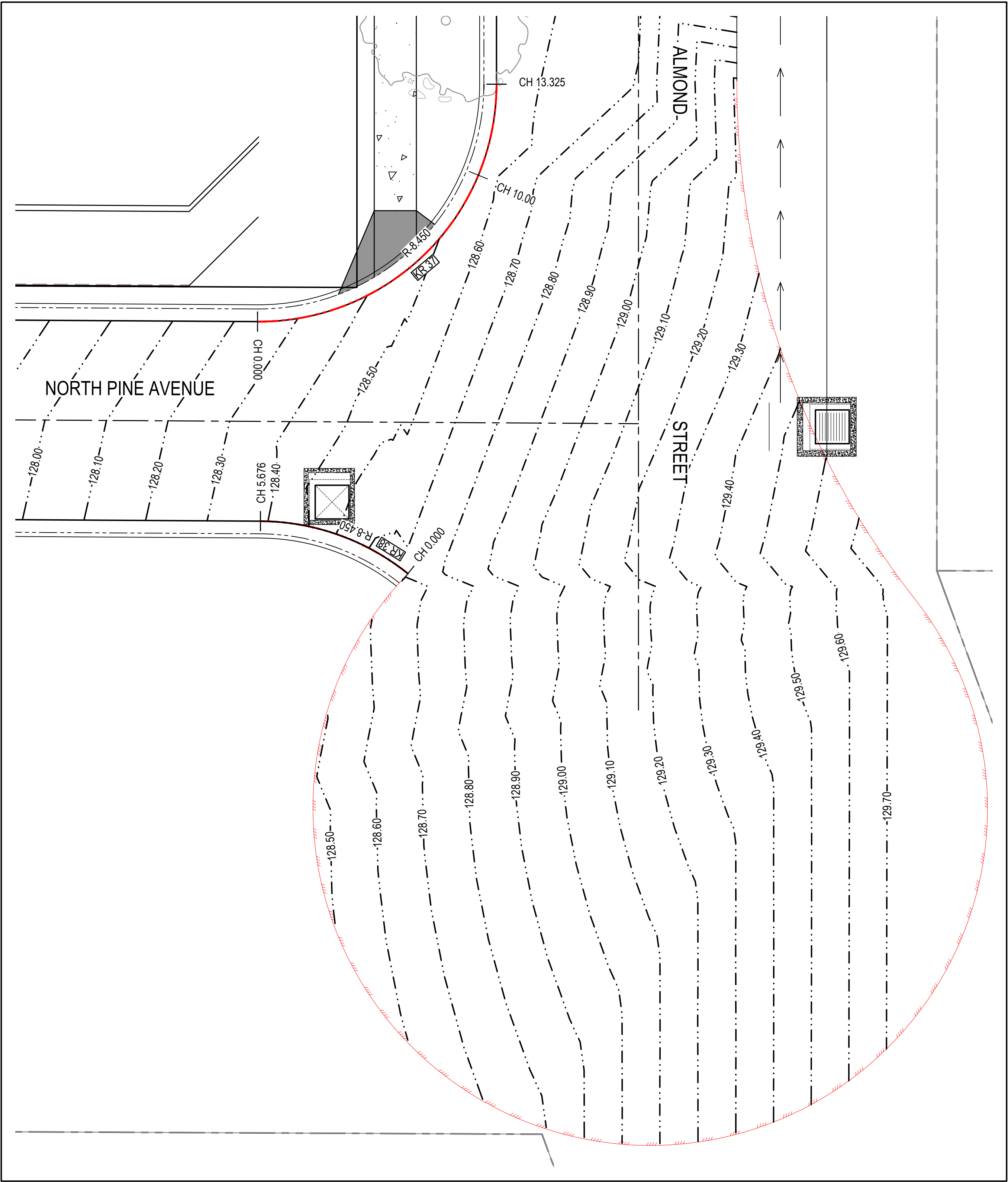
Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title	INTERSECTION AND KERB RETURN DETAILS SHEET 6
Scale	AS SHOWN
Project No.	22048
Dwg No.	505
Issue	A



LEGEND

- K&G PROPOSED KERB & GUTTER
- RK PROPOSED ROLLER KERB
- PROPOSED ROAD CENTRELINE
- PROPOSED CONTROL LINE
- PROPOSED DESIGN CONTOURS
- PROPOSED KERB RETURN
- PROPOSED SURFACE PIT
- PROPOSED CONCRETE FOOTPATH



KERB RETURN

NORTH PINE AVENUE - ALMOND STREET

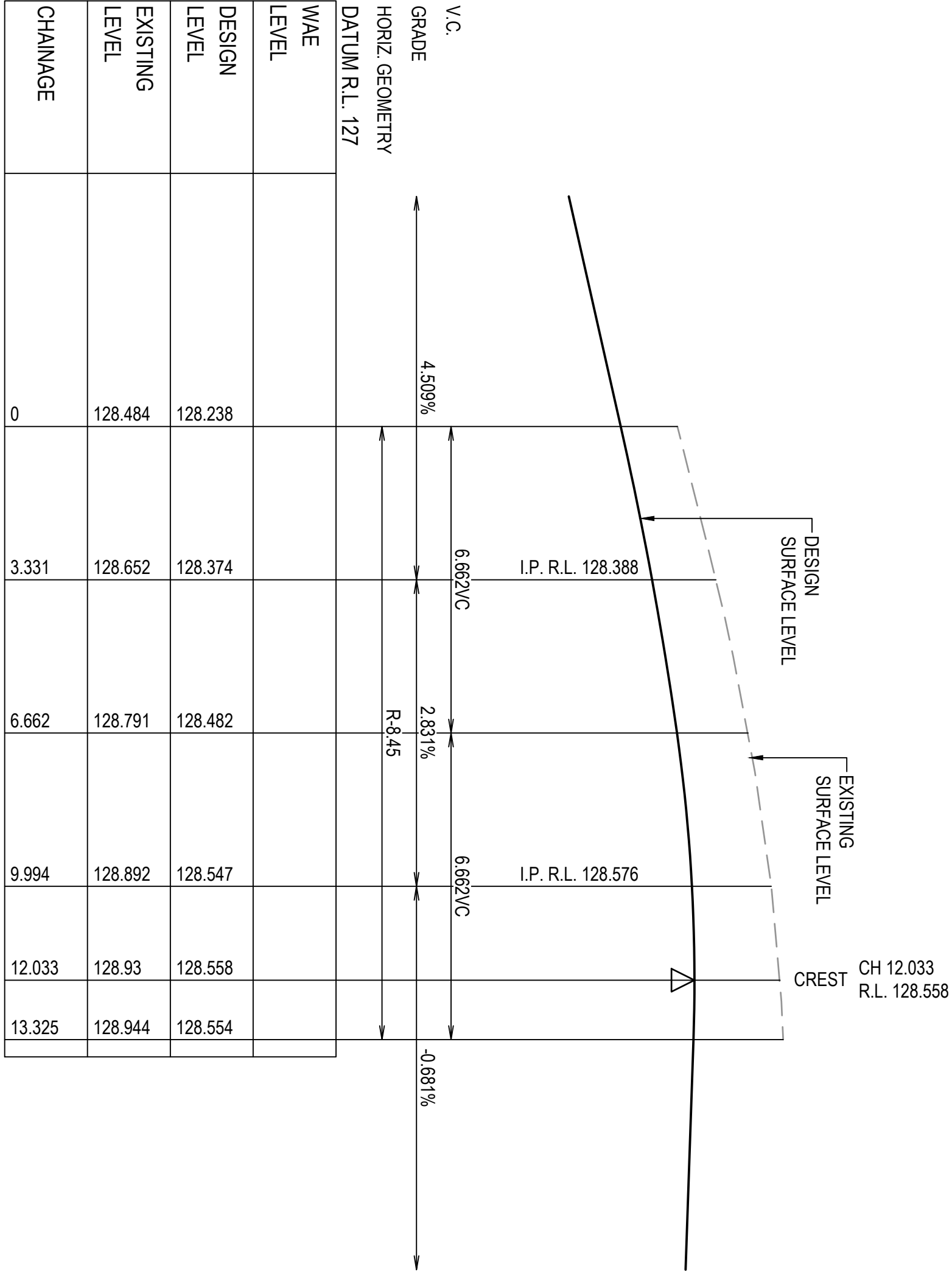
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KERB RETURN 37 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	AL LENGTH	DEF. ANGLE
IP 1	0.000	282187.118	6416076.555	128.238	278°28'46.16"			
IP 2	6.662	282178.709	6416077.808	128.482		R = 8.450	13.325	90°20'55.60"
IP 3	13.325	282177.507	6416089.392	128.554	188°07'50.56"			

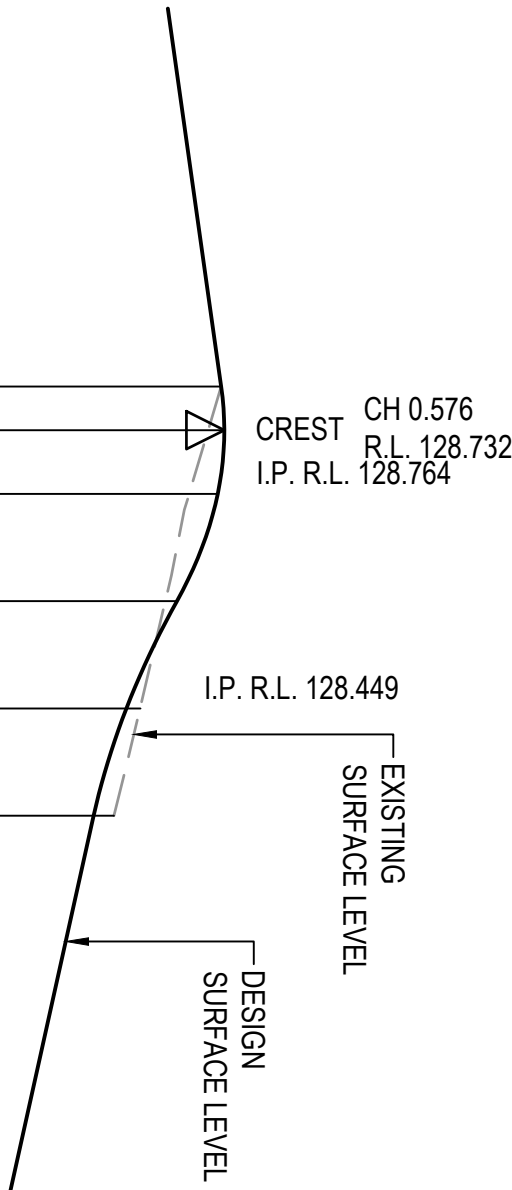
KERB RETURN 38 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	AL LENGTH	DEF. ANGLE
IP 1	0.000	282183.090	6416086.189	128.723	136°57'59.97"			
IP 2	2.838	282185.103	6416084.033	128.606		R = 8.450	5.676	38°29'13.81"
IP 3	5.676	282188.021	6416083.598	128.586	98°28'46.16"			



KERB RETURN 37 - LONGITUDINAL SECTION - (NORTH PINE AVENUE - ALMOND STREET)

SCALE 1:100 (H)
SCALE 1:20 (V)



KERB RETURN

SCALE 1:100

KERB RETURN 37 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	AL LENGTH	DEF. ANGLE
IP 1	0.000	282187.118	6416076.555	128.238	278°28'46.16"			
IP 2	6.662	282178.709	6416077.808	128.482		R = 8.450	13.325	90°20'55.60"
IP 3	13.325	282177.507	6416089.392	128.554	188°07'50.56"			

KERB RETURN 38 SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	AL LENGTH	DEF. ANGLE
IP 1	0.000	282183.090	6416086.189	128.723	136°57'59.97"			
IP 2	2.838	282185.103	6416084.033	128.606		R = 8.450	5.676	38°29'13.81"
IP 3	5.676	282188.021	6416083.598	128.586	98°28'46.16"			

KERB RETURN 38 - LONGITUDINAL SECTION - (ALMOND STREET - NORTH PINE AVENUE)

SCALE 1:100 (H)
SCALE 1:20 (V)

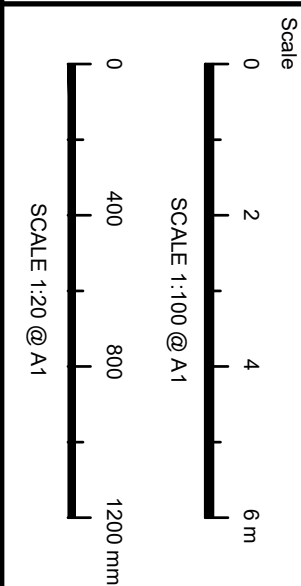
drawn paper

Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.L.B.	J.A.B.

Confession by Mr. Mark Zhang
B.E., M.E. (Reg), P.D., F.E. Aust., CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST

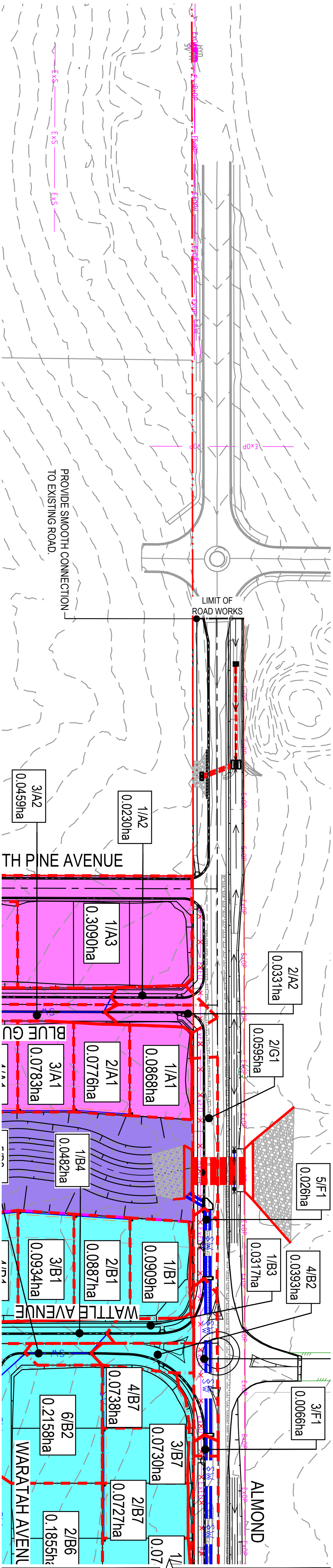
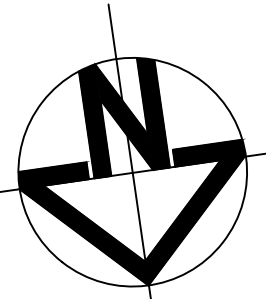
Council
muswellbrook
shire council



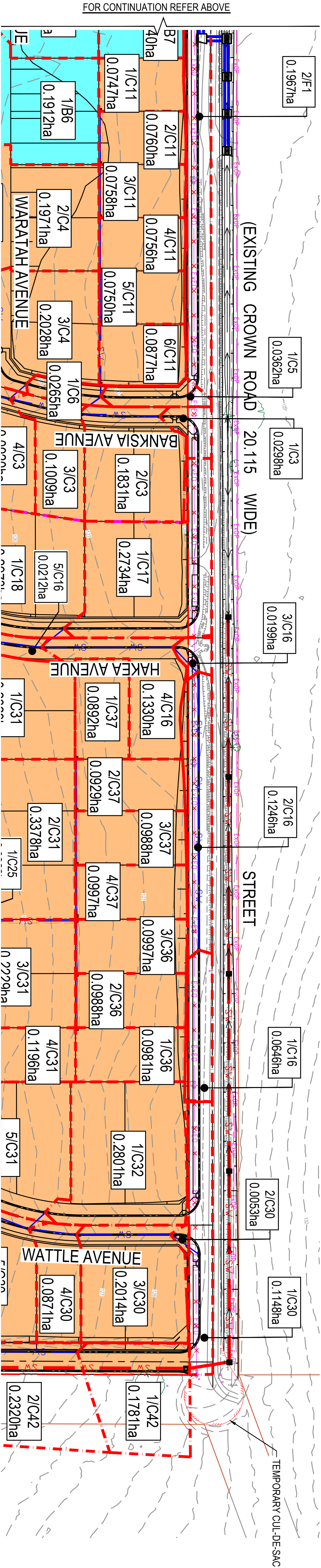
TELFORD civil
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street, Enrol : info@telfordcivil.com.au
Parramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Scale	AS SHOWN	Project No.	22048	Dwg No.	506	Issue	A
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FOR CONTINUATION REFER BELOW



FOR CONTINUATION REFER ABOVE

LEGEND

- PROPOSED SUBDIVISION LOT BOUNDARY
 - PROPOSED KERB & GUTTER
 - PROPOSED ROLLER KERB
 - PROPOSED DISH DRAIN
 - PROPOSED FINISHED CONTOURS
 - PROPOSED CATCHMENT BOUNDARY
 - CATCHMENT NUMBER
 - PROPOSED STORMWATER PIPE
 - PROPOSED KERB INLET PIT
 - PROPOSED SAG PIT
 - INTERALLOTMENT DRAINAGE PIT
- EXISTING LOT BOUNDARY
 - EXISTING CULVERTS
 - BASIN 1 CATCHMENT = 22.63ha
 - BASIN 2 CATCHMENT = 3.322ha
 - BASIN 3 CATCHMENT = 1.694ha
 - BYPASS CATCHMENT = 1.78ha
 - AREA EXCLUDED FROM CALCULATION



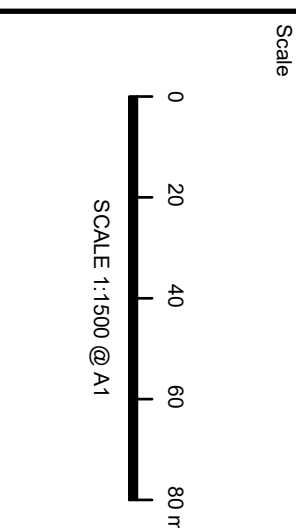
Zero Damage - Zero Harm

Issue	Description	Date	Design	Checked
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.I.B.	J.A.B.

Prepared by: Mr. J. B. Jones
Civil & Structural Engineer

Client: CHINA ORIENTAL INVESTMENT DOMAIN TRUST

Council: muswellbrook shire council



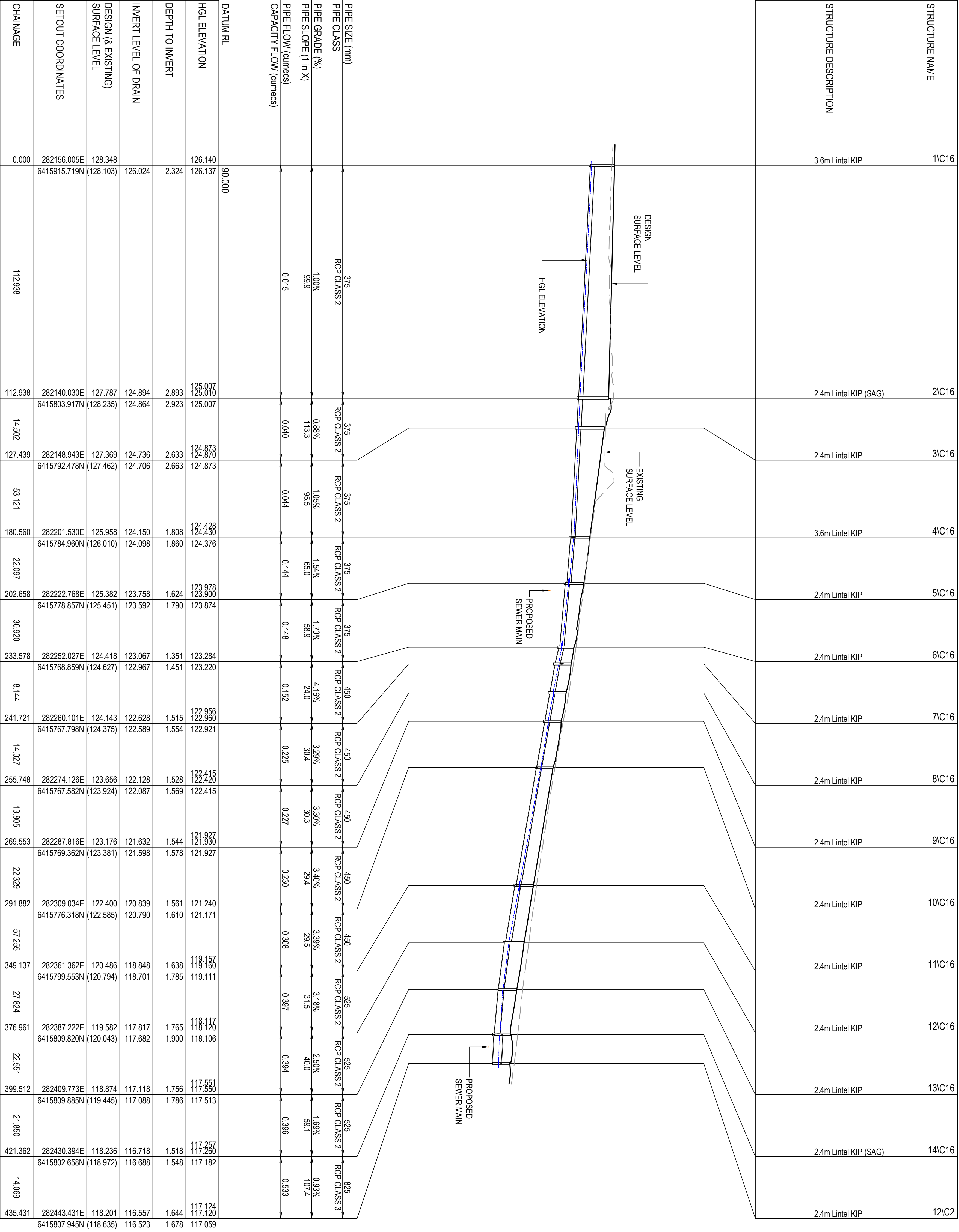
TELFORD civil
CONSULTING CIVIL & STORMWATER ENGINEERS
Level 14, 32 Smith Street, Enrol : info@telfordcivil.com.au
Parramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

Project: PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Scale	Project No.	Dwg No.	Issue
1:1500	22048	600	A

almond paper

almond paper



C16

Issue

Description

28/05/2026

J.J.B.

J.A.B.

Design

Checked

Issue

Description

28/05/2026

J.J.B.

J.A.B.

Design

Checked

Client

CHINA ORIENTAL INVESTMENT DOMAIN TRUST

Council

muswellbrook shire council

Scale

0 4 8 12 m
0 20 40 60 m
SCALE 1:1000 @ A1

Project

PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title

STORMWATER LONGITUDINAL SECTIONS
SHEET 1

Scale

As Shown

Project No.

22048

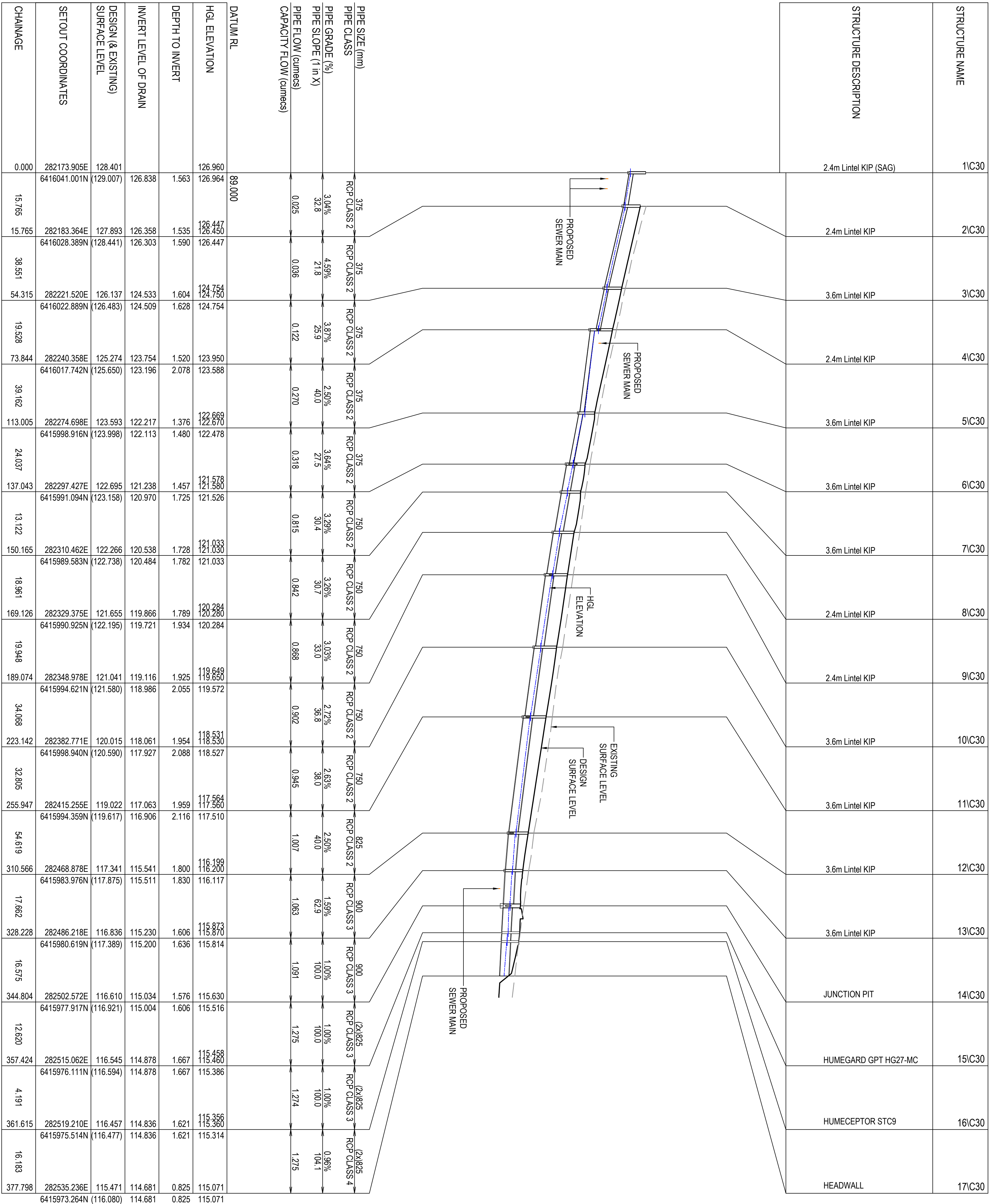
Dwg No.

610

Issue

A

DocuSign Envelope ID: 468645CE-3355-8491-8275-076B4B8E4346



sharon pope

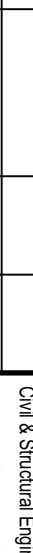
Drawing Title	
Scale	Project No.
A1	22048
AS SHOWN	

STOMRWATER CALCULATION TABLE SHEET 3

DBANS results prepared from Version 2022.012									
PERT / NCORE DETAILS				Version 8			Overflow		
Name	Max HSL	Max Pond	Max Surface	Max Pond Min	Freeboard	Constant			
		HSL	(cu/yd) 0.07	(cu/m)	(m)	(cu/m/yd)			
NC1	118.51	118.51	0.118			0.000 Quiet System			
NC1	118.46	118.46	0.118			0.060 Quiet System			
NC1	118.36	118.36	0.114			0.060 Quiet System			
NC1	118.34	118.34	0.149			0.000 Quiet System			
NC1	118.28	118.28	0.148			0.000 Quiet System			
NC1	117.75	117.75	0.148			0.131 Quiet System			
NC1	117.58	117.58	0.229			0.122 Quiet System			
NC1	117.46	117.46	0.317			0.272 Quiet System			
NC1	117.27	117.27	0.395			0.294 Quiet System			
NC1	117.12	117.12	0.397			0.250 Quiet System			
NC1	116.89	116.89	0.372			0.250 Quiet System			
NC1	116.84	116.84	0.364			0.380 Quiet System			
NC1	116.61	116.61	0.506			0.260 Quiet System			
NC1	116.46	116.46	0.523			0.260 Quiet System			
NC1	116.12	116.12	0.394			0.000 Quiet System			
NC1	115.84	115.84	0.225			0.000 Quiet System			
NC1	115.81	115.81	0.143			0.000 Quiet System			
NC1	115.48	115.48	0.164			0.000 Quiet System			
NC1	115.36	115.36	0.066			0.000 Quiet System			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
NC1	115.18	115.18	0.044			0.44			
NC1	115.01	115.01	0.05			0.44			
NC1	115.55	115.55	0.02			0.06			
NC1	115.39	115.39	0.019			0.06			
NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
NC1	115.18	115.18	0.044			0.44			
NC1	115.01	115.01	0.05			0.44			
NC1	115.55	115.55	0.02			0.06			
NC1	115.39	115.39	0.019			0.06			
NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
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NC1	115.39	115.39	0.019			0.06			
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NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
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NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
NC1	115.18	115.18	0.044			0.44			
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NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
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NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
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NC1	115.39	115.39	0.019			0.06			
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NC1	115.64	115.64	0.202			0.000 Quiet System			
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NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
NC1	115.18	115.18	0.044			0.44			
NC1	115.01	115.01	0.05			0.44			
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NC1	115.39	115.39	0.019			0.06			
NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
NC1	115.18	115.18	0.044			0.44			
NC1	115.01	115.01	0.05			0.44			
NC1	115.55	115.55	0.02			0.06			
NC1	115.39	115.39	0.019			0.06			
NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
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NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
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NC1	115.18	115.18	0.044			0.44			
NC1	115.01	115.01	0.05			0.44			
NC1	115.55	115.55	0.02			0.06			
NC1	115.39	115.39	0.019			0.06			
NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
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NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	115.36	0.066			0.62			
NC1	115.36	115.36	0.046			0.000 Quiet System			
NC1	115.31	115.31	0.044			0.14			
NC1	115.28	115.28	0.043			0.06			
NC1	115.18	115.18	0.044			0.44			
NC1	115.01	115.01	0.05			0.44			
NC1	115.55	115.55	0.02			0.06			
NC1	115.39	115.39	0.019			0.06			
NC1	115.17	115.17	0.111			0.1			
NC1	115.12	115.12	0.193			0.35			
NC1	115.06	115.06	0.111			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.64	115.64	0.202			0.000 Quiet System			
NC1	115.48	115.48	0			0.88			
NC1	115.36	115.36	0			0.47			
NC1	115.36	11							

2023	1	1	1	08:00	15.2	65	1.2	135	10	1013.2	10	15	10	10	10	Clear	
2023	1	1	1	12:00	18.5	70	1.5	140	15	1012.8	10	20	15	15	15	Partly Cloudy	
2023	1	1	1	18:00	12.1	60	1.0	130	5	1013.5	10	10	10	10	10	Clear	
2023	1	2	06:00	9.8	55	0.8	125	5	1014.0	10	5	5	5	5	5	Clear	
2023	1	2	10:00	14.3	62	1.1	132	10	1013.8	10	12	10	10	10	10	Partly Cloudy	
2023	1	2	14:00	17.9	68	1.3	138	15	1013.1	10	18	15	15	15	15	Partly Cloudy	
2023	1	2	18:00	11.5	58	0.9	128	5	1013.6	10	8	8	8	8	8	Clear	
2023	1	3	07:00	10.2	52	0.7	122	5	1014.2	10	3	3	3	3	3	Clear	
2023	1	3	11:00	13.7	59	1.0	129	10	1013.9	10	7	7	7	7	7	Partly Cloudy	
2023	1	3	15:00	16.4	64	1.2	134	15	1013.4	10	14	12	12	12	12	Partly Cloudy	
2023	1	3	19:00	10.8	56	0.8	126	5	1013.7	10	6	6	6	6	6	Clear	
2023	1	4	06:00	8.5	50	0.6	120	5	1014.5	10	2	2	2	2	2	Clear	
2023	1	4	10:00	12.9	57	0.9	127	10	1014.1	10	5	5	5	5	5	Partly Cloudy	
2023	1	4	14:00	15.6	63	1.1	131	15	1013.6	10	11	10	10	10	10	Partly Cloudy	
2023	1	4	18:00	10.1	54	0.7	124	5	1013.9	10	4	4	4	4	4	Clear	
2023	1	5	07:00	11.3	56	0.8	127	10	1014.3	10	4	4	4	4	4	Partly Cloudy	
2023	1	5	11:00	14.8	61	1.0	130	15	1013.8	10	9	9	9	9	9	Partly Cloudy	
2023	1	5	15:00	17.2	66	1.2	135	20	1013.2	10	16	14	14	14	14	Partly Cloudy	
2023	1	5	19:00	11.7	59	0.9	128	10	1013.5	10	8	8	8	8	8	Clear	
2023	1	6	06:00	9.1	53	0.7	121	5	1014.1	10	3	3	3	3	3	Clear	
2023	1	6	10:00	13.5	60	0.9	128	10	1013.7	10	6	6	6	6	6	Partly Cloudy	
2023	1	6	14:00	16.1	65	1.1	132	15	1013.3	10	12	11	11	11	11	Partly Cloudy	
2023	1	6	18:00	10.5	57	0.8	125	5	1013.6	10	7	7	7	7	7	Clear	
2023	1	7	07:00	11.9	58	0.9	128	10	1014.0	10	5	5	5	5	5	Partly Cloudy	
2023	1	7	11:00	15.3	63	1.0	131	15	1013.5	10	10	10	10	10	10	Partly Cloudy	
2023	1	7	15:00	17.8	68	1.2	136	20	1013.0	10	17	15	15	15	15	Partly Cloudy	
2023	1	7	19:00	11.2	60	0.9	127	10	1013.4	10	9	9	9	9	9	Clear	
2023	1	8	06:00	8.8	51	0.6	120	5	1014.2	10	2	2	2	2	2	Clear	
2023	1	8	10:00	13.2	59	0.8	127	10	1013.8	10	5	5	5	5	5	Partly Cloudy	
2023	1	8	14:00	15.8	64	1.1	133	15	1013.3	10	12	11	11	11	11	Partly Cloudy	
2023	1	8	18:00	10.3	55	0.7	124	5	1013.8	10	4	4	4	4	4	Clear	
2023	1	9	07:00	11.5	57	0.8	127	10	1014.1	10	4	4	4	4	4	Partly Cloudy	
2023	1	9	11:00	15.0	62	1.0	130	15	1013.6	10	9	9	9	9	9	Partly Cloudy	
2023	1	9	15:00	17.5	67	1.2	135	20	1013.1	10	16	14	14	14	14	Partly Cloudy	
2023	1	9	19:00	11.4	59	0.9	128	10	1013.4	10	8	8	8	8	8	Clear	
2023	1	10	06:00	8.6	51	0.6	120	5	1014.3	10	2	2	2	2	2	Clear	
2023	1	10	10:00	13.0	59	0.8	127	10	1013.9	10	5	5	5	5	5	Partly Cloudy	
2023	1	10	14:00	15.5	64	1.1	132	15	1013.4	10	12	11	11	11	11	Partly Cloudy	
2023	1	10	18:00	10.4	56	0.7	124	5	1013.7	10	4	4	4	4	4	Clear	
2023	1	11	07:00	11.7	57	0.8	127	10	1014.0	10	4	4	4	4	4	Partly Cloudy	
2023	1	11	11:00	15.1	62	1.0	130	15	1013.5	10	9	9	9	9	9	Partly Cloudy	
2023	1	11	15:00	17.6	67	1.2	135	20	1013.0	10	16	14	14	14	14	Partly Cloudy	
2023	1	11	19:00	11.1	58	0.9	127	10	1013.3	10	8	8	8	8	8	Clear	
2023	1	12	06:00	8.9	52	0.6	120	5	1014.4	10	2	2	2	2	2	Clear	
2023	1	12	10:00	13.3	60	0.9	128	10	1013.6	10	5	5	5	5	5	Partly Cloudy	
2023	1	12	14:00	15.9	65	1.1	133	15	1013.2	10	12	11	11	11	11	Partly Cloudy	
2023	1	12	18:00	10.2	55	0.7	124	5	1013.8	10	4	4	4	4	4	Clear	
2023	2	1	07:00	11.0	56	0.8	127	10	1014.1	10	4	4	4	4	4	Partly Cloudy	
2023	2	1	11:00	14.5	61	1.0	130	15	1013.7	10	9	9	9	9	9	Partly Cloudy	
2023	2	1	15:00	17.0	66	1.2	135	20	1013.2	10	16	14	14	14	14	Partly Cloudy	
2023	2	1	19:00	11.3	59	0.9	128	10	1013.4	10	8	8	8	8	8	Clear	
2023	2	2	06:00	8.7	51	0.6	120	5	1014.5	10	2	2	2	2	2	Clear	
2023	2	2	10:00	13.1	59	0.8	127	10	1014.0	10	5	5	5	5	5	Partly Cloudy	
2023	2	2	14:00	15.7	64	1.1	132	15	1013.5	10	12	11	11	11	11	Partly Cloudy	
2023	2	2	18:00	10.0	54	0.7	124	5	1013.9	10	4	4	4	4	4	Clear	
2023	2	3	07:00	11.2	56	0.8	127	10	1014.2	10	4	4	4	4	4	Partly Cloudy	
2023	2	3	11:00	14.7	61	1.0	130	15	1013.8	10	9	9	9	9	9	Partly Cloudy	
2023	2	3	15:00	17.3	66	1.2	135	20	1013.3	10	16	14	14	14	14	Partly Cloudy	
2023	2	3	19:00	11.4	59	0.9	128	10	1013.5	10	8	8	8	8	8	Clear	
2023	2	4	06:00	8.8	52	0.6	120	5	1014.6	10	2	2	2	2	2	Clear	
2023	2	4	10:00	13.2	60	0.9	128	10	1013.7	10	5	5	5	5	5	Partly Cloudy	
2023	2	4	14:00	15.8	65	1.1	133	15	1013.3	10	12	11	11	11	11	Partly Cloudy	
2023	2	4	18:00	10.1	55	0.7	124	5	1013.8	10	4	4	4	4	4	Clear	
2023	2	5	07:00	11.4	57	0.8	127	10	1014.1	10	4	4	4	4	4	Partly Cloudy	
2023	2	5	11:00	14.9	62	1.0	130	15	1013.6	10	9	9	9	9	9	Partly Cloudy	
2023	2	5	15:00	17.4	67	1.2	135	20	1013.1	10	16	14	14	14	14	Partly Cloudy	
2023	2	5	19:00	11.5	60	0.9	128	10	1013.4	10	8	8	8	8	8	Clear	
2023	2	6	06:00	8.9	52	0.6	120	5	1014.7	10	2	2	2	2	2	Clear	
2023	2	6	10:00	13.3	60	0.9	128	10	1013.8	10	5	5	5	5	5	Partly Cloudy	
2023	2	6	14:00	15.9	65	1.1	133	15	1013.4	10	12	11	11	11	11	Partly Cloudy	
2023	2	6	18:00	10.2	55	0.7	124	5	1013.9	10	4	4	4	4	4	Clear	
2023	2	7	07:00	11.5	57	0.8	127	10	1014.2	10	4	4	4	4	4	Partly Cloudy	
2023	2	7	11:00	15.0	62	1.0	130	15	1013.7	10	9	9	9	9	9	Partly Cloudy	
2023	2	7	15:00	17.6	67	1.2	135	20	1013.2	10	16	14	14	14	14	Partly Cloudy	
2023	2	7	19:00	11.6	60	0.9	128	10	1013.5	10	8	8	8	8	8	Clear	
2023	2	8	06:00	8.7	51	0.6	120	5	1014.8	10	2	2	2	2	2	Clear	
2023	2	8	10:00	13.4	60	0.9	128	10	1013.9	10	5	5	5	5	5	Partly Cloudy	
2023	2	8	14:00	16.0	66	1.1	134	15	1013.4	10	12	11	11	11	11	Partly Cloudy	
2023	2	8	18:00	10.3	55	0.7	124	5	1014.0	10	4	4	4	4	4	Clear	
2023	2	9	07:00	11.6	57	0.8	127	10	1014.3	10	4	4	4	4	4	Partly Cloudy	
2023	2	9	11:00	15.1	62	1.0	130	15	1013.8	10	9	9	9	9	9	Partly Cloudy	
2023	2	9	15:00	17.7	67	1.2	135	20	1013.3	10	16	14	14	14	14	Partly Cloudy	
2023	2	9	19:00	11.7	60	0.9	128	10	1013.6	10	8	8	8	8	8	Clear	
2023	2	10	06:00	8.8	52	0.6	120	5	1014.9	10	2	2	2	2	2	Clear	
2023	2	10	10:00	13.5	60	0.9	128	10	1014.0	10	5	5	5	5	5	Partly Cloudy	
2023	2	10	14:00	16.1	66	1.1	134	15	1013.5	10	12	11	11	11	11	Partly Cloudy	
2023	2	10	18:00	10.4	55	0.7	124	5	1014.1	10	4	4	4	4	4	Clear	
2023	2	11	07:00	11.7	57	0.8	127	10	1014.4	10	4	4	4	4	4	Partly Cloudy	
2023	2	11	11:00	15.2	62	1.0	130	15	1013.9	10	9	9	9	9	9	Partly Cloudy	
2023	2	11	15:00	17.8	67	1.2	135	20	1013.4	10	16	14	14	14	14	Partly Cloudy	
2023	2	11	19:00	11.8	60	0.9	128	10	1013.7	10	8	8	8	8	8	Clear	
2023	2	12	06:00	8.9	52	0.6	120	5	1014.0	10							

SUB-COMPONENT DETAILS									
Name	Max Flow (L/min)	Pneul Max (kPa)	Gravul Max (kPa)	Pneul Tc (min)	Gravul Tc (min)	Stump Tc (min)	Date	System	
C1A1	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A2	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A3	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A4	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A5	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A6	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A7	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A8	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A9	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A10	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A11	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A12	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A13	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A14	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A15	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A16	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A17	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A18	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A19	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A20	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A21	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A22	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A23	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A24	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A25	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A26	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A27	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A28	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A29	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A30	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A31	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A32	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A33	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A34	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A35	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A36	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A37	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A38	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A39	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A40	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A41	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A42	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A43	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A44	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A45	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A46	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A47	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A48	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A49	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A50	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A51	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A52	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A53	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A54	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A55	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A56	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A57	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A58	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A59	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A60	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A61	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A62	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A63	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A64	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A65	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A66	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A67	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A68	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A69	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A70	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A71	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A72	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A73	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A74	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A75	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A76	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A77	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A78	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A79	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A80	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A81	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A82	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A83	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A84	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A85	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A86	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A87	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A88	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A89	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A90	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A91	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A92	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A93	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A94	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A95	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A96	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A97	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A98	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A99	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A100	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A101	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A102	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A103	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A104	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A105	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A106	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A107	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A108	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A109	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A110	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A111	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A112	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A113	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A114	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A115	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A116	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A117	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	1.34
C1A118	0.088	0.065	0.032	3.46	0.0	30.37	0	0 % AEP, 10-min burst, Storm 7	

Construction by: Mace China Civil & Structural Engineer		Client		Scale		Project		Drawing title	
		CHINA ORIENTAL INVESTMENT DOMAIN TRUST		 mussellbrook shire council		TEL FORD CIVIL CONSULTING CIVIL & STORMWATER ENGINEERS Level 14, 32 Smith Street, Ennals Paramatta NSW 2150 Phone : 02 7809 4931 Email : info@telFordcivil.com.au PO BOX 3579 Paramatta 2176 Telford Consulting Pty Ltd		PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT	
Issue Description		Date		Scale		Project		Drawing title	
A ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026		JLB JAB		JLB JAB		STORMWATER CALCULATION TABLE SHEET 4	
Issue Description		Date		Scale		Project		Drawing title	
A ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026		JLB JAB		JLB JAB		STORMWATER CALCULATION TABLE SHEET 4	

[illegible][illegible][illegible]

[illegible]

F-201	0.014	0.044	0.043	0.131	0.03	1.04	0.36 %AF, 10mm burst, Stern 7
F-301	0.009	0.039	0.094	0.099	0.03	0.79	0.25 %AF, 10mm burst, Stern 7
F-401	0.013	0.013	0.043	0.089	0.04	0.71	0.41 %AF, 10mm burst, Stern 7
F-501	0	0	0	0	0	0	0
F-601	0	0	0	0	0	0	0
F-701	0	0	0	0	0	0	0
F-801	0	0	0	0	0	0	0
F-901	0	0	0	0	0	0	0
F-1001	0	0	0	0	0	0	0
F-1101	0	0	0	0	0	0	0
F-1201	0	0	0	0	0	0	0
F-1301	0	0	0	0	0	0	0
F-1401	0	0	0	0	0	0	0
F-1501	0	0	0	0	0	0	0
F-1601	0	0	0	0	0	0	0
F-1701	0	0	0	0	0	0	0
F-1801	0	0	0	0	0	0	0
F-1901	0	0	0	0	0	0	0
F-2001	0	0	0	0	0	0	0
F-2101	0	0	0	0	0	0	0
F-2201	0	0	0	0	0	0	0
F-2301	0	0	0	0	0	0	0
F-2401	0	0	0	0	0	0	0
F-2501	0	0	0	0	0	0	0
F-2601	0	0	0	0	0	0	0
F-2701	0	0	0	0	0	0	0
F-2801	0	0	0	0	0	0	0
F-2901	0	0	0	0	0	0	0
F-3001	0	0	0	0	0	0	0
F-3101	0	0	0	0	0	0	0
F-3201	0	0	0	0	0	0	0
F-3301	0	0	0	0	0	0	0
F-3401	0	0	0	0	0	0	0
F-3501	0	0	0	0	0	0	0
F-3601	0	0	0	0	0	0	0
F-3701	0	0	0	0	0	0	0
F-3801	0	0	0	0	0	0	0
F-3901	0	0	0	0	0	0	0
F-4001	0	0	0	0	0	0	0
F-4101	0	0	0	0	0	0	0
F-4201	0	0	0	0	0	0	0
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F-4401	0	0	0	0	0	0	0
F-4501	0	0	0	0	0	0	0
F-4601	0	0	0	0	0	0	0
F-4701	0	0	0	0	0	0	0
F-4801	0	0	0	0	0	0	0
F-4901	0	0	0	0	0	0	0
F-5001	0	0	0	0	0	0	0
F-5101	0	0	0	0	0	0	0
F-5201	0	0	0	0	0	0	0
F-5301	0	0	0	0	0	0	0
F-5401	0	0	0	0	0	0	0
F-5501	0	0	0	0	0	0	0
F-5601	0	0	0	0	0	0	0
F-5701	0	0	0	0	0	0	0
F-5801	0	0	0	0	0	0	0
F-5901	0	0	0	0	0	0	0
F-6001	0	0	0	0	0	0	0
F-6101	0	0	0	0	0	0	0
F-6201	0	0	0	0	0	0	0
F-6301	0	0	0	0	0	0	0
F-6401	0	0	0	0	0	0	0
F-6501	0	0	0	0	0	0	0
F-6601	0	0	0	0	0	0	0
F-6701	0	0	0	0	0	0	0
F-6801	0	0	0	0	0	0	0
F-6901	0	0	0	0	0	0	0
F-7001	0	0	0	0	0	0	0
F-7101	0	0	0	0	0	0	0
F-7201	0	0	0	0	0	0	0
F-7301	0						

STRUCTURE NUMBER	STRUCTURE TYPE	STEEP ROUNDS	INVERT LEVEL	SURFACE LEVEL	DEPTH TO INVERT
11A1	300+000 GSP	NO	326.006 331 6415367.187	124.558	125.656
22A1	300+000 GSP	NO	326.177 887 6415359.526	124.734	0.788
3A1	300+000 GSP	NO	326.749 671 6415359.526	123.62	124.19
4A1	300+000 GSP	NO	326.714 466 6415359.526	123.276	124.065
5A1	300+000 GSP	NO	326.714 466 6415359.526	123.276	124.065
6A1	300+000 GSP	NO	326.715 867 6415356.148	122.344	123.163
7A1	300+000 GSP	NO	326.258 891 6415361.959	121.271	122.138
8A1	HEAVY WALL	NO	326.056 466 6415354.933	120.96	120.96
11A2	2.4m Line# RIP (900x650 - Refer to Detail on sheet 7A1)	YES	326.070 596 6415350.914	123.366	125.17
12A2	2.4m Line# RIP (900x700 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
13A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
14A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
15A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
16A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
17A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
18A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
19A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
20A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
21A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
22A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
23A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
24A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
25A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
26A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
27A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
28A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
29A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
30A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
31A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
32A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
33A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
34A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
35A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
36A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
37A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
38A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
39A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
40A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
41A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
42A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
43A2	2.4m Line# RIP (900x750 - Refer to Detail on sheet 7A1)	YES	326.111 364 6415356.038	123.387	125.124
44A2					

STRUCTURE NUMBER	STRUCTURE TYPE	STEEL IRONS	ASTM	NORTHING	INVERT LEVEL	SURFACE LEVEL	DEPTH TO INVERT
1C12	900-900 GSP	NO	28237.65	6415562.188	123.817	124.625	0.808
2C12	900-900 GSP	NO	28235.467	6415516.417	123.381	124.625	0.904
3C12	900-900 GSP	NO	28235.628	6415561.705	122.948	123.927	0.960
4C12	900-900 GSP	NO	28238.111	6415614.55	122.486	123.465	0.969
5C12	900-900 GSP	YES	28237.727	6415599.318	122.019	123.275	1.125
6C12	900-900 GSP	YES	28235.609	6415584.889	119.789	121.35	1.561
7C12	900-900 GSP	YES	28235.457	6415571.689	122.561	123.282	0.921
1C13	900-900 GSP	NO	28233.265	6415719.725	121.64	122.593	0.933
2C13	900-900 GSP	NO	28233.757	6415712.755	120.916	121.971	0.976
3C13	900-900 GSP	NO	28234.186	6415744.801	119.595	120.966	1.05
4C13	900-900 GSP	YES	28240.014	6415552.013	120.255	121.794	1.488
5C13	2.4m Line Pipe (S&G) (900x650 - Refer to Detail on sheet 7A1)	YES	28235.619	6415580.527	122.838	123.626	1.599
6C13	2.4m Line Pipe (S&G) (900x650 - Refer to Detail on sheet 7A1)	YES	28235.605	6415591.519	122.604	123.484	1.234
7C13	2.4m Line Pipe (S&G) (900x650 - Refer to Detail on sheet 7A1)	YES	28234.403	6415803.913	124.604	127.787	2.923
8C13	2.4m Line Pipe (S&G) (900x650 - Refer to Detail on sheet 7A1)	YES	28218.434	6415792.978	124.706	127.369	2.663
9C13	3.6m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28218.331	6415794.95	124.098	127.369	2.663
10C13	3.6m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28220.133	6415794.95	124.098	125.582	1.561
11C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28222.788	6415788.657	123.592	125.382	1.471
12C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28232.027	6415788.657	123.592	124.418	1.554
13C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
14C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
15C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
16C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
17C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
18C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
19C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
20C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
21C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
22C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
23C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
24C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
25C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
26C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
27C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
28C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
29C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
30C13	2.4m Line Pipe (900x650 - Refer to Detail on sheet 7A1)	YES	28227.610	6415671.286	122.889	124.43	1.554
31C13	2.4m Line Pipe (900x65						

[illegible]

NOTE:
ALL PITS TO BE STEEL REINFORCED CONCRETE.
IF PIT IS STANDARD, IT IS TO BE PRECAST AND
ACCORDINGLY PRE-CORED UNDER AUSPEC. IF
PIT IS CUSTOMIZED, IT IS TO BE CAST IN-SITU.

[illegible]

Client	China Oriental Investment Domain Trust
Council	 muswellbrook shire council

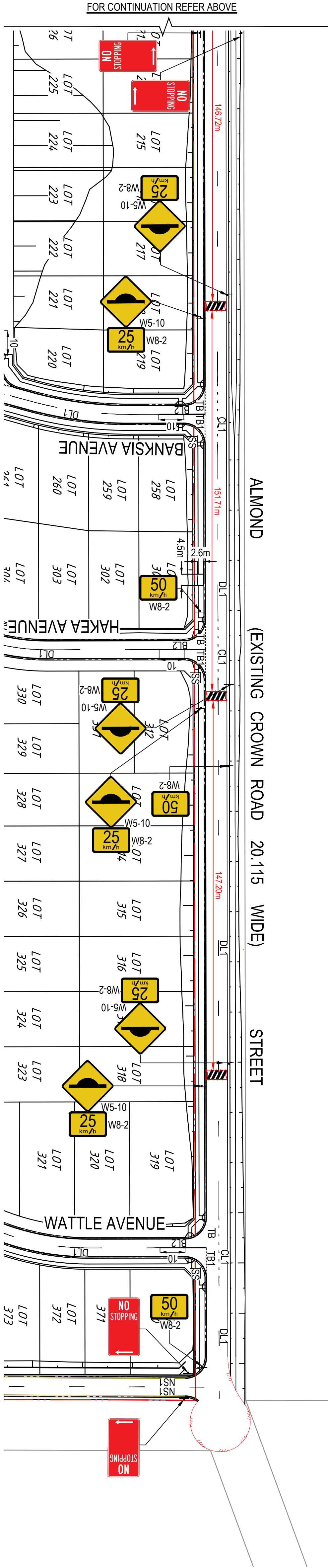
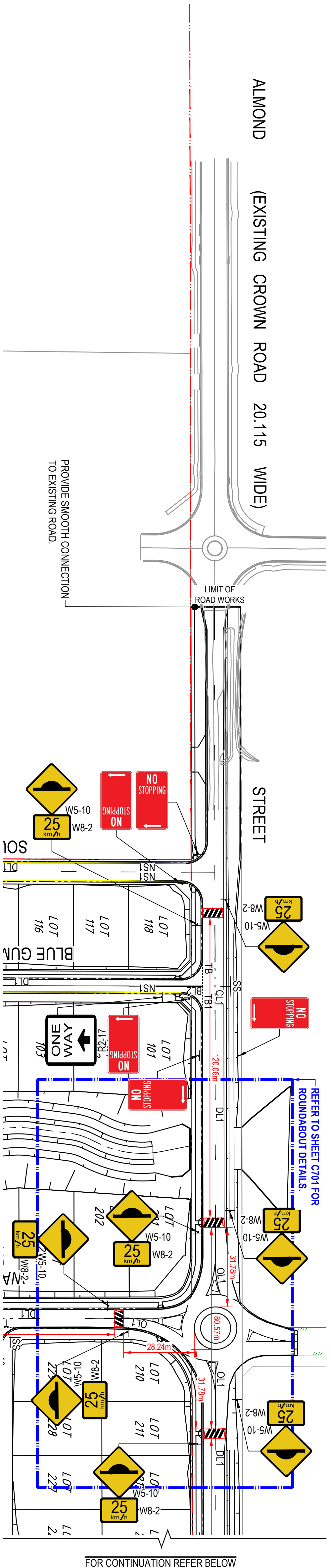
TELFORD CIVIL

== CONSULTING CIVIL & STORMWATER ENGINEERS ==

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 Paramatta NSW 2150 Email: info@telfordcivil.com.au
 PO BOX 3579 Paramatta 2176 Mailing As: Telford Consulting

PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Scale	Project No.	Dwg No.	Issue
AS SHOWN	22048	640	A

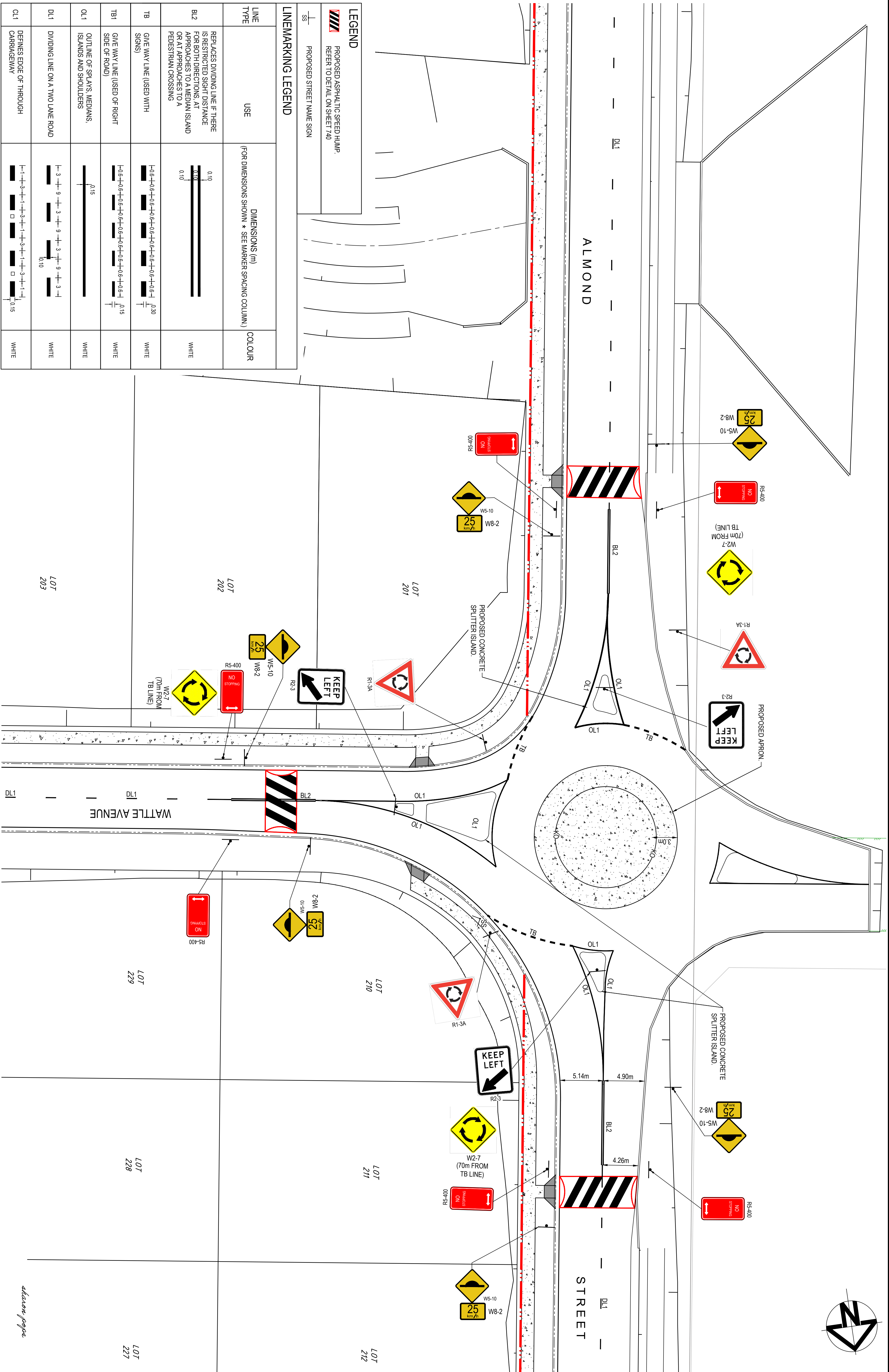


LEGEND	
	PROPOSED ASPHALTIC SPEED HUMP. REFER TO DETAIL ON SHEET 740
	PROPOSED STREET NAME SIGN

LINEMARKING LEGEND		
LINE TYPE	USE	COLOUR
(FOR DIMENSIONS SHOWN * SEE MARKER SPACING COLUMN.)		
B12	REPLACES DIVIDING LINE IF THERE IS RESTRICTED SIGHT DISTANCE FOR BOTH DIRECTIONS, AT APPROACHES TO A MEDIAN ISLAND OR AT APPROACHES TO A PEDESTRIAN CROSSING	WHITE
TB	GIVE WAY LINE (USED WITH SIGNS)	WHITE
TB1	GIVE WAY LINE (USED OF RIGHT SIDE OF ROAD)	WHITE
OL1	OUTLINE OF SPLAYS, MEDIANS, ISLANDS AND SHOULDERS	WHITE
NS1	KERBSIDE LINE MARKING FOR FULL-TIME NO STOPPING	YELLOW
DL1	DIVIDING LINE ON A TWO LANE ROAD	WHITE
CL1	DEFINES EDGE OF THROUGH CARRIAGEWAY	WHITE

Certification by Mr. Mervyn George B.E., M.E. (Reg.), Ph.D., F.I.E. Austral., CPEng, Civil & Structural Engineer		Client	China Oriental Investment Domain Trust	Council	muswellbrook shire council	Scale	0 20 40 60m SCALE 1:1000 @ A1	Project	PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT	Drawing Title	SIGNAGE AND LINEMARKING PLAN				
Issue	Description	Date	Design	Checked				Scale	A1	Project No.	22048	Dwg No.	700	Issue	A
A	ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026	J.L.B.	J.A.B.											

drawn paper



LINEMARKING LEGEND		
LINE TYPE	USE	DIMENSIONS (m) (FOR DIMENSIONS SHOWN * SEE MARKER SPACING COLUMN.)
BL2	REPLACES DIVIDING LINE IF THERE IS RESTRICTED SIGHT DISTANCE FOR BOTH DIRECTIONS. AT APPROACHES TO A MEDIAN ISLAND OR AT APPROACHES TO A PEDESTRIAN CROSSING	
TB	GIVE WAY LINE (USED WITH SIGNS)	
TB1	GIVE WAY LINE (USED OF RIGHT SIDE OF ROAD)	
DL1	OUTLINE OF SPLAYS, MEDIANS, ISLANDS AND SHOULDERS	
DL1	DIVIDING LINE ON A TWO LANE ROAD	
CL1	DEFINES EDGE OF THROUGH CARRIAGEWAY	
		COLOUR
		WHITE

[illegible]

Certification By Dr. Michiel Chaaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng
Civil & Structural Engineer

Client

CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST



muswellbrook
shire council

Scale

0 20 40 60 80 mm

SCALE 1:1500 @ A1

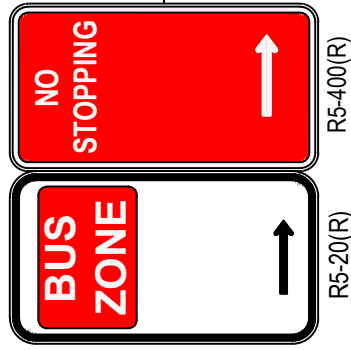
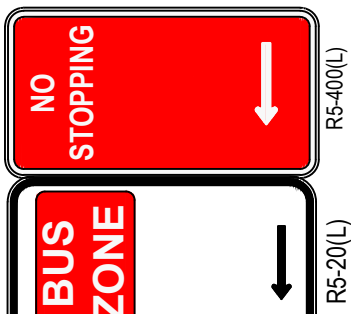
TELFORD CIVIL

== CONSULTING CIVIL & STORMWATER ENGINEERS ==

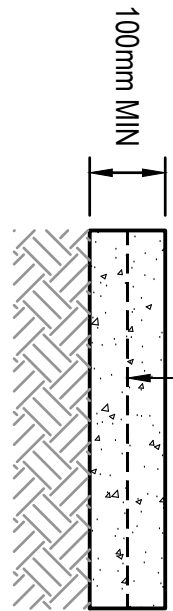
Level 14, 32 Smith Street, Email : info@telfordcivil.com.au
 Parramatta NSW 2150 Phone : 02 7809 4931
 PO BOX 3579 Parramatta 2124 Tel/Fax As : Telford Consulting

Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT
Ltd

Drawing Title			
SIGNAGE AND LINEMARKING PLAN SHEET 2			
Scale	AT	Project No.	Dwg. No.
1:200		22048	701
			Issue
			A



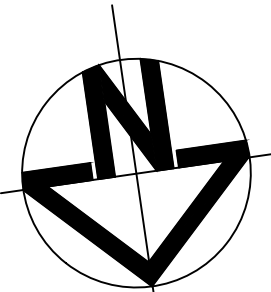
SCALE 1:100



SCALE N.T.S

sharon pope

[illegible]



LEGEND

—

VEHICLE BODY

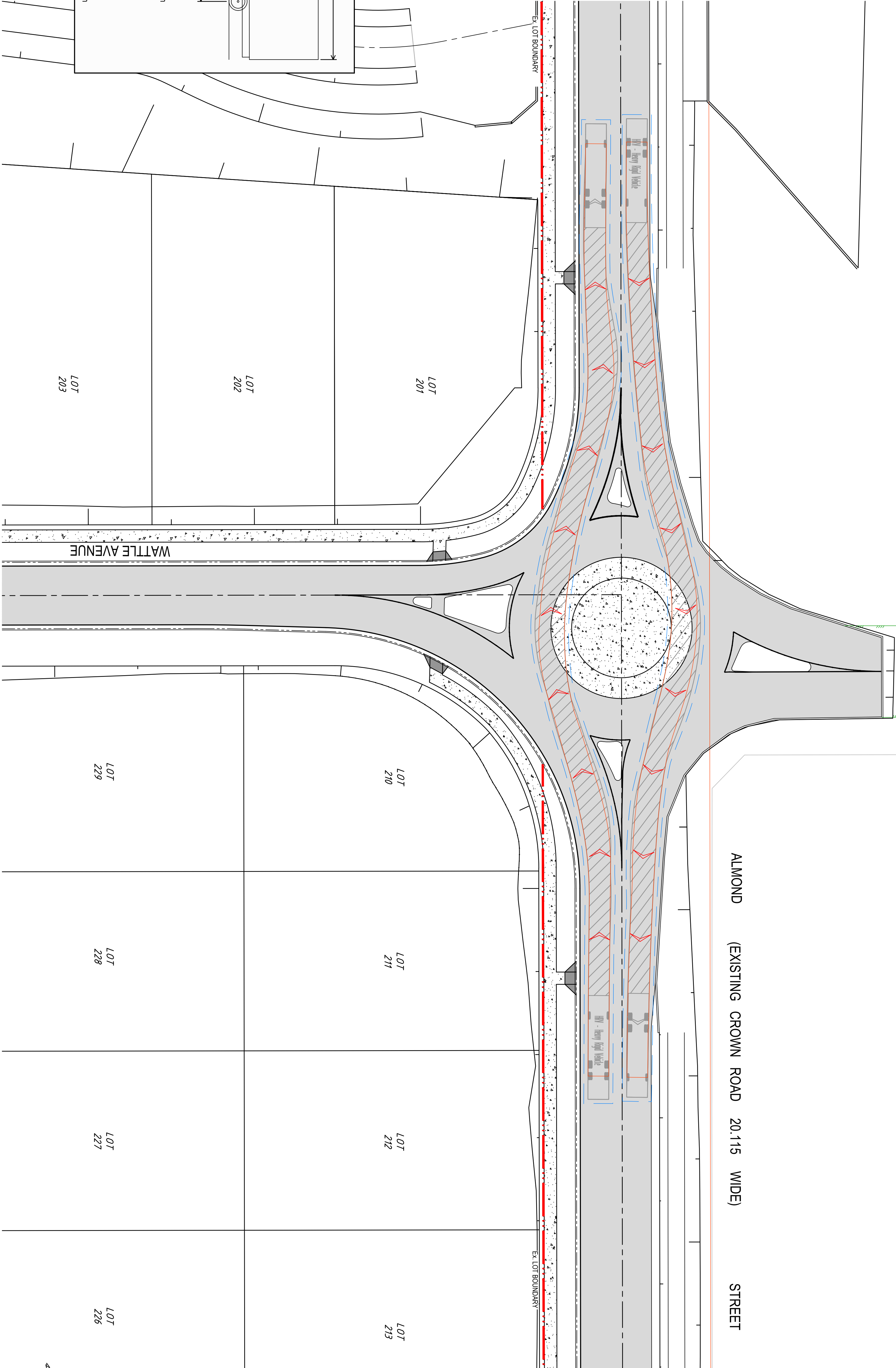
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VEHICLE BODY CLEARANCE (0.5m)

—

WHEEL TRAILS

VEHICLE BODY ENVELOPE



The diagram illustrates the side profile of a heavy rigid vehicle (HRV). It features a long rectangular body with a smaller rectangular unit mounted on top at the front. Three wheels are shown along the bottom: a single front wheel and two rear wheels. Dimension lines with arrows indicate the following measurements:

- Overall Length:** A vertical line on the right side of the vehicle, spanning the full height of the body, labeled "12.5".
- Overall Width:** A horizontal line at the top of the vehicle, spanning the width of the body, labeled "2.4".
- Overall Body Height:** A horizontal line below the overall width, spanning the width of the body, labeled "5.9".
- Min Body Ground Clearance:** A horizontal line at the bottom of the vehicle, spanning the width of the body, labeled "1.4".
- Track Width:** A horizontal line at the bottom of the vehicle, spanning the width of the body, labeled "2.500m".
- Lock-to-lock time:** A horizontal line at the bottom of the vehicle, spanning the width of the body, labeled "6.00s".
- Curb to Curb Turning Radius:** A horizontal line at the bottom of the vehicle, spanning the width of the body, labeled "12.500m".

HRV - Heavy Rigid Vehicle	
Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.417m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

BEFORE
YOU DIG

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Zero Damage - Zero Harm

Issue A

Description ISSUE FOR VOLUNTARY PLANNING AGREEMENT

Date 28/05/2026

Design J.J.B.

Checked J.A.B.

Prepared by: B.E. M.E. (Reg), P.D. F.E. Aust. CPEng,
Civil & Structural Engineer

Client

CHINA ORIENTAL INVESTMENT DOMAIN TRUST

Council

muswellbrook shire council

Scale

0 2 4 6 8 10 12 m

SCALE 1:250 @ A1

TEL FORD

civil

CONSULTING CIVIL & STORMWATER ENGINEERS

Level 14, 32 Smith Street, Parramatta NSW 2150

Phone : 02 7809 4931

PO BOX 3579 Parramatta 2124oding As : Telford Consulting Pty Ltd

Project

PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title

SWEPT PATH PLAN
SHEET 1

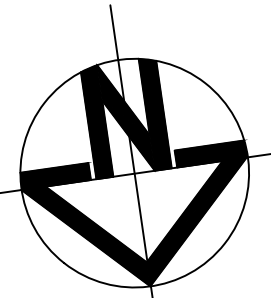
Scale 1:250

A1

Project No. 22048

Dwg No. 720

Issue A



LEGEND

—

VEHICLE BODY

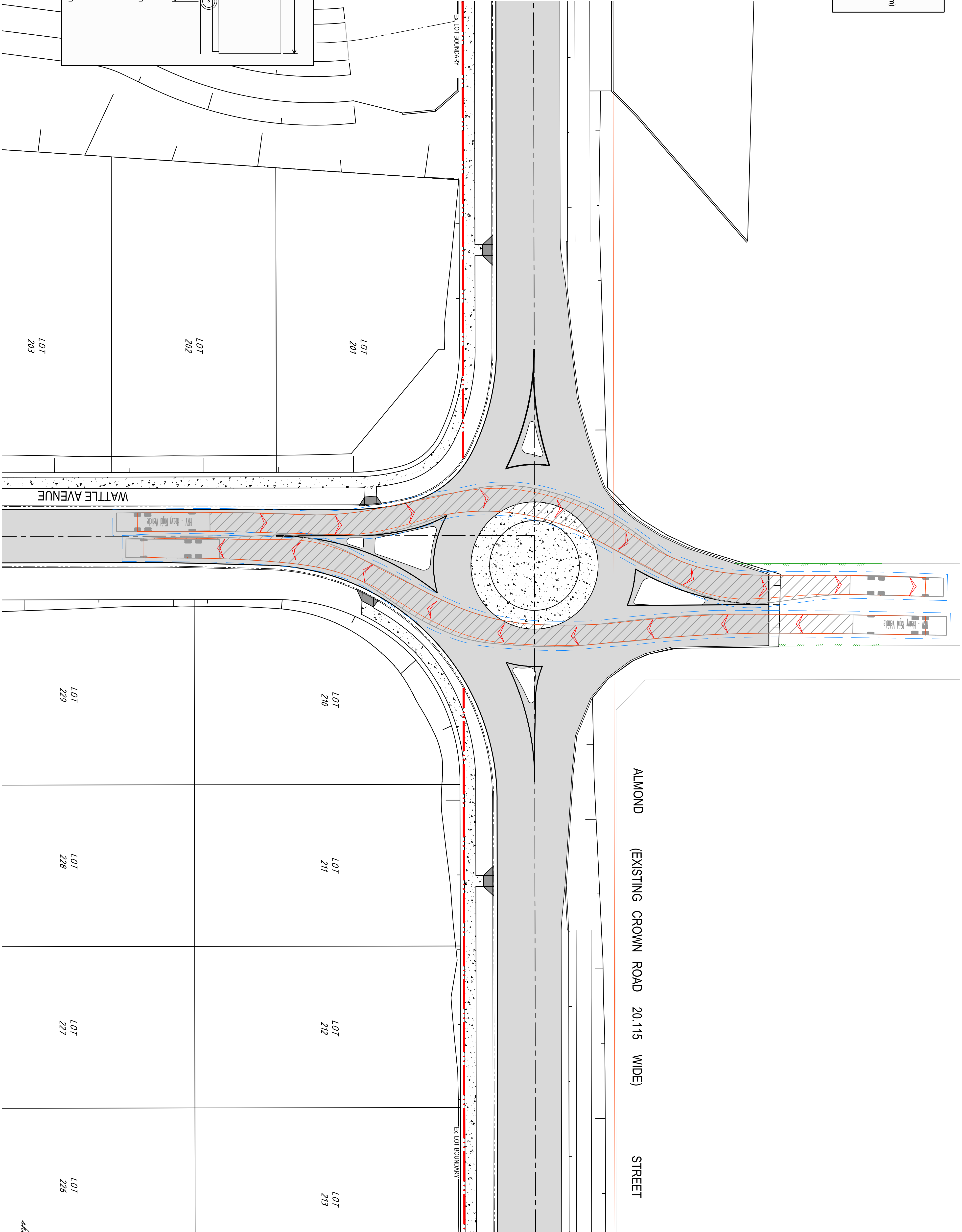
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VEHICLE BODY CLEARANCE (0.5m)

—

WHEEL TRAILS

VEHICLE BODY ENVELOPE



12.5

2.4

5.9

1.4

HRV - Heavy Rigid Vehicle

Overall Length12.500m

Overall Width2.500m

Overall Body Height4.300m

Min Body Ground Clearance0.417m

Track Width2.500m

Lock-to-lock time6.00s

Curb to Curb Turning Radius12.500m

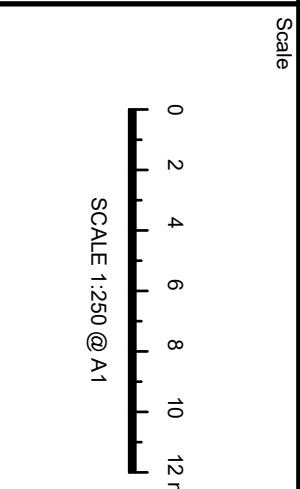


Zero Damage - Zero Harm

Issue				Description			
A				ISSUE FOR VOLUNTARY PLANNING AGREEMENT			
Date				28/05/2026			
Design				J.J.B. J.A.B.			
Checked				J.J.B. J.A.B.			
Drawn				J.J.B. J.A.B.			
Scale				1:250			

Prepared by: Mr. J. J. B. J. A. B.
B.E., M.E. (Reg.), P.D., F.E. Aust., CPEng,
Civil & Structural Engineer

Client
CHINA ORIENTAL
INVESTMENT
DOMAIN TRUST



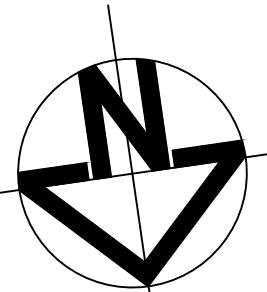
TELFORD
civil
CONSULTING CIVIL & STORMWATER ENGINEERS

Level 14, 32 Smith Street, Parramatta NSW 2150
Phone : 02 7809 4931
Email : info@telfordcivil.com.au
PO BOX 3579 Parramatta 2124
Telford Consulting Pty Ltd

Project
PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title
SWEPT PATH PLAN
SHEET 2

Scale	A1	Project No.	22048	Dwg No.	721	Issue	A
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LEGEND

—

VEHICLE BODY

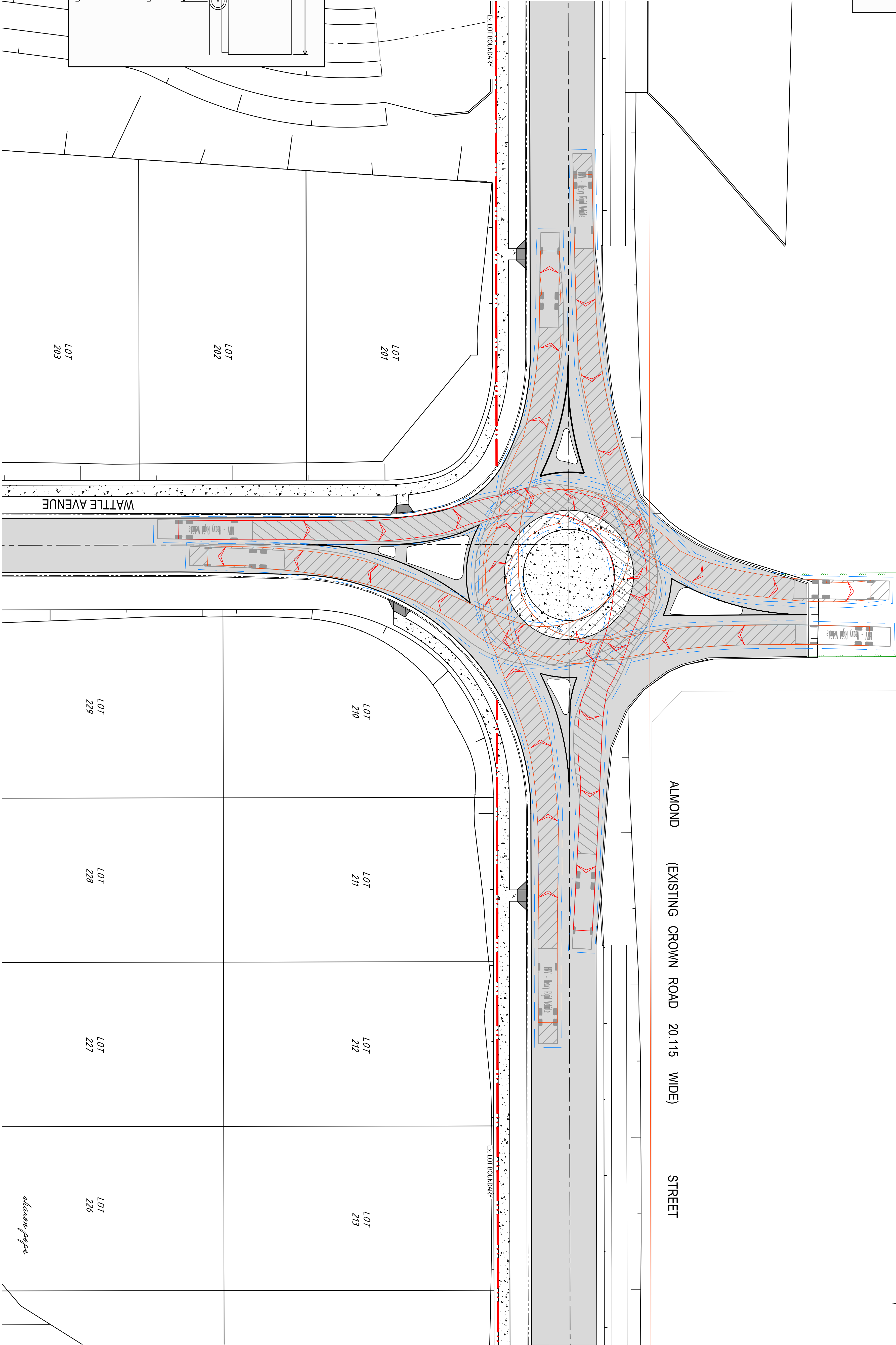
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VEHICLE BODY CLEARANCE (0.5m)

—

WHEEL TRAILS

VEHICLE BODY ENVELOPE



12.5

2.4

5.9

1.4

HRV - Heavy Rigid Vehicle

Overall Length

Overall Width

Overall Body Height

Min Body Ground Clearance

Track Width

Lock-to-lock time

Curb to Curb Turning Radius

12.500m

2.500m

4.300m

0.417m

2.500m

6.00s

12.500m



Issue		Description		Date	Design	Checked
A		ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026	J.J.B.	J.A.B.
Scale		A1		Project No.		Dwg No.
1:250		A1		22048		722
Issue		A		Project No.		Dwg No.
1:250		A1		22048		722

Client

CHINA ORIENTAL INVESTMENT DOMAIN TRUST

Council

muswellbrook shire council

Scale

0

2

4

6

8

10

12

SCALE 1:250 @ A1

Project

PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title

SWEPT PATH PLAN
SHEET 3

Scale

1:250

A1

Project No.

22048

Dwg No.

722

Issue

A

Consultation By: Mogens Olesen
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng,
Civil & Structural Engineer

Client

CHINA ORIENTAL INVESTMENT DOMAIN TRUST

Council

muswellbrook shire council

Scale

0

2

4

6

8

10

12

SCALE 1:250 @ A1

Project

PROPOSED RESIDENTIAL SUBDIVISION
ALMOND STREET, DENMAN
CIVIL ENGINEERING PLANS
VOLUNTARY PLANNING AGREEMENT

Drawing Title

SWEPT PATH PLAN
SHEET 3

Scale

1:250

A1

Project No.

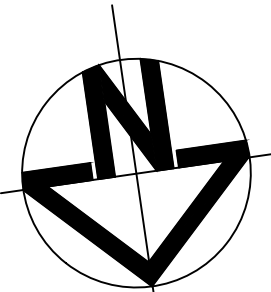
22048

Dwg No.

722

Issue

A



LEGEND

—

VEHICLE BODY

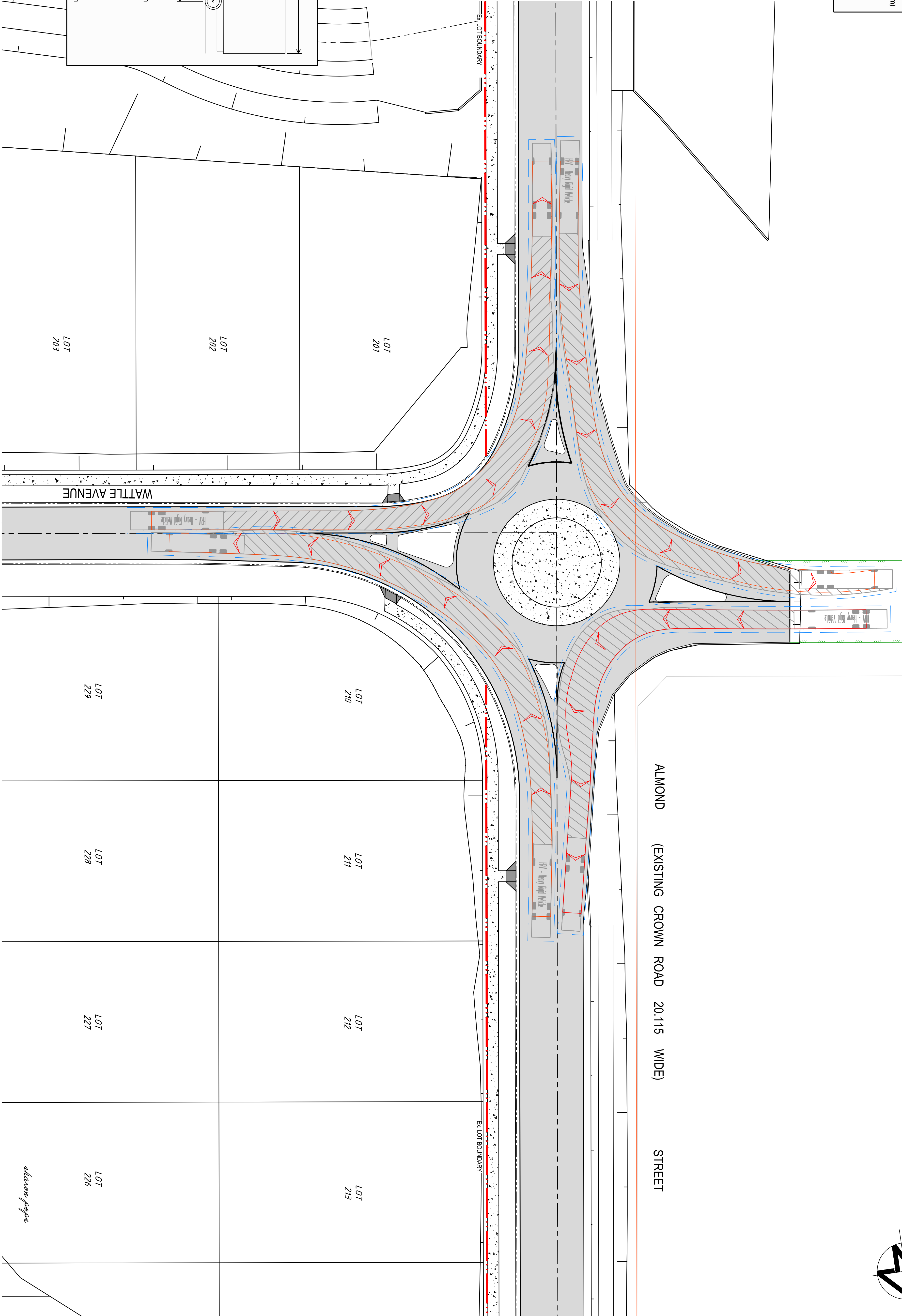
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VEHICLE BODY CLEARANCE (0.5m)

—

WHEEL TRAILS

VEHICLE BODY ENVELOPE



12.5

2.4

5.9

1.4

HRV - Heavy Rigid Vehicle

Overall Length12.500m

Overall Width2.500m

Overall Body Height4.300m

Min Body Ground Clearance0.417m

Track Width2.500m

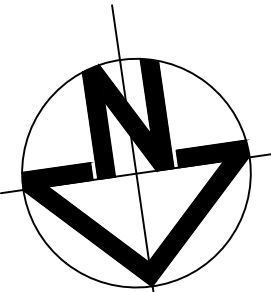
Lock-to-lock time6.00s

Curb to Curb Turning Radius12.500m



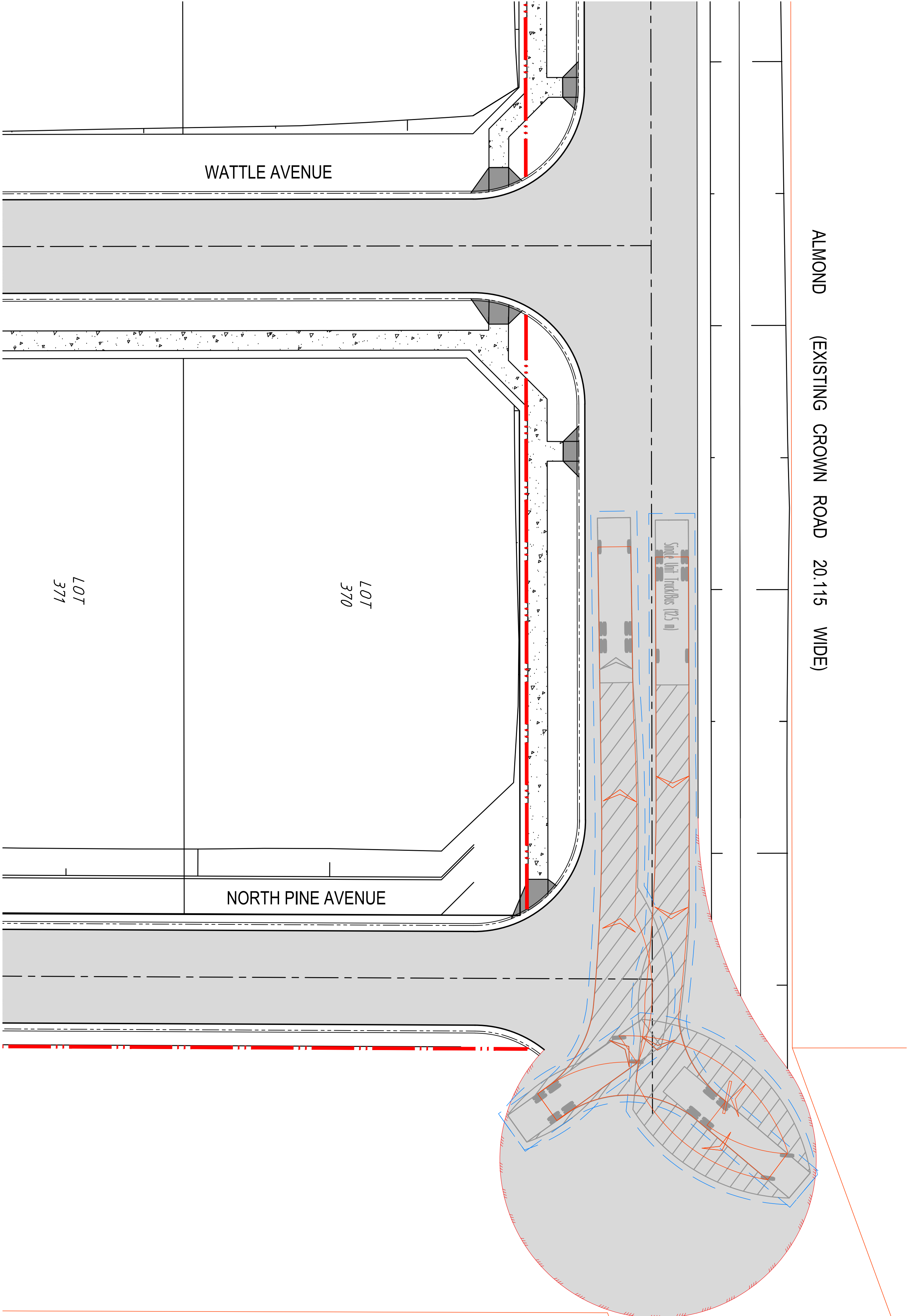
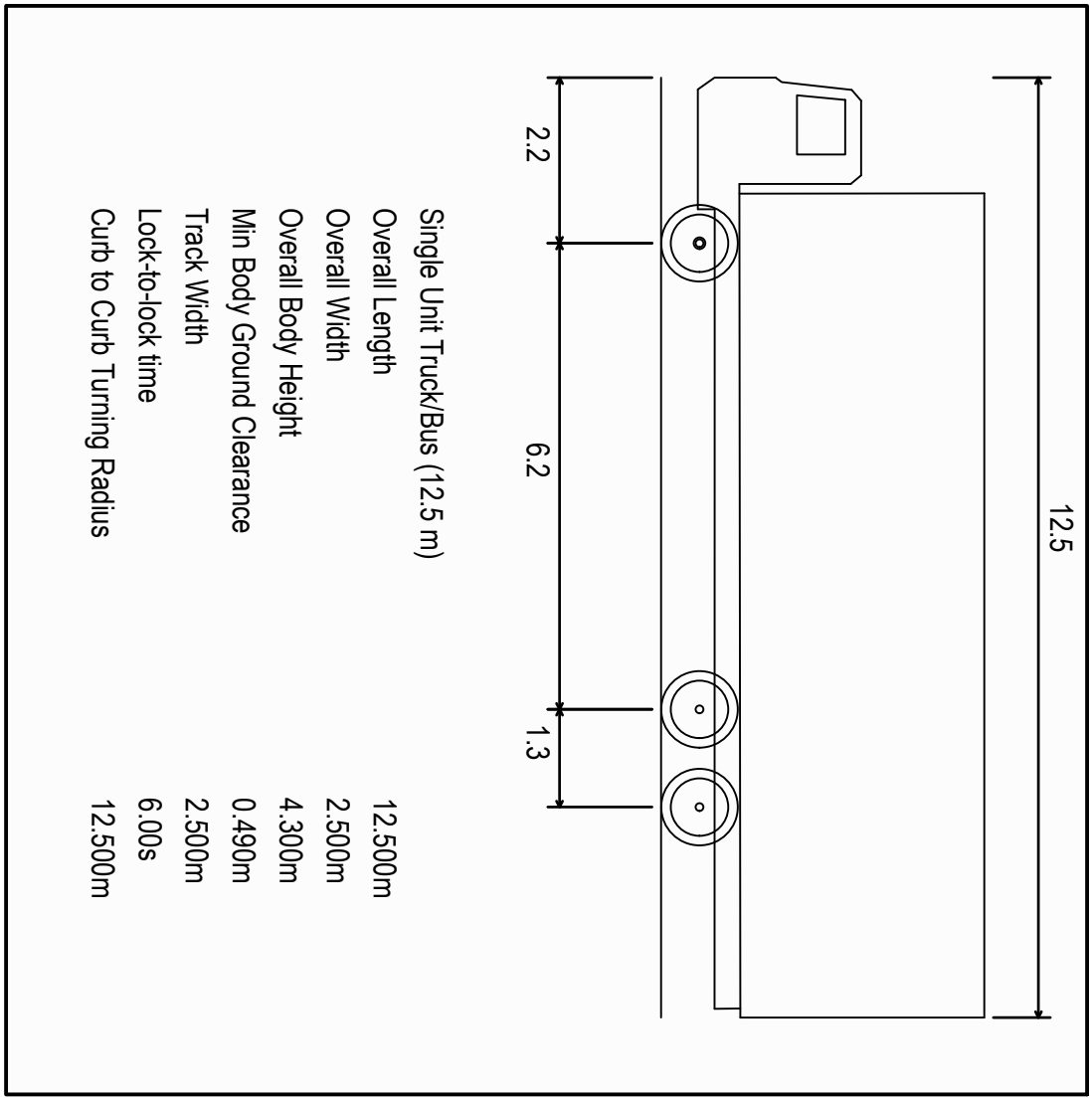
Zero Damage - Zero Harm

Certification by: Muswellbrook Shire Council B.E. M.E. (Reg), P.A.D., F.I.E. Aust., CPEng, Civil & Structural Engineer		Client		Council		Scale		Project		Drawing Title	
		CHINA ORIENTAL INVESTMENT DOMAIN TRUST						PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT		SWEEP PATH PLAN SHEET 4	
Issue A		Description ISSUE FOR VOLUNTARY PLANNING AGREEMENT		Date 28/05/2026		J.I.B. J.A.B.		Scale 1:250		A1	
Issue		Description		Date		Design		Checked		Dwg No.	
J.I.B.		J.A.B.		2026						723	
J.I.B.		J.A.B.								A	



LEGEND

- | | |
|---|-------------------------------|
|  | VEHICLE BODY |
| | VEHICLE BODY CLEARANCE (0.5m) |
|  | WHEEL TRAILS |
|  | VEHICLE BODY ENVELOPE |



sharon pope



Zero Damage - Zero Harm

	Issue	Description	Date	J.J.B.	J.A.B.	Design	Checked
A		ISSUE FOR VOLUNTARY PLANNING AGREEMENT	28/05/2026				

Certification By Dr. Michel Chaya
B.E., M.E. (Res), Ph.D., F.I.E Aust., CPEng,
Civil & Structural Engineer

Council

Scale



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Paramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Paramatta 2124 Adding As : Telford Consulting

Project

PROPOSED RESIDENTIAL SUBDIVISION

ALMOND STREET, DENNMAN

CIVIL ENGINEERING LEADS

L'ta

Drawing Title

SWEPT PATH PLAN

SHEET 5

Scale
1:500

A1

220

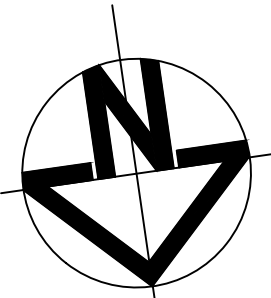
72.

Issue
A

		12.5m 2.2m 6.2m 1.3m
HRV - Heavy Rigid Vehicle Overall Length Overall Width Overall Body Height Min Body Ground Clearance Track Width Lock-to-lock time Curb to Curb Turning Radius		12.5m 2.2m 6.2m 1.3m

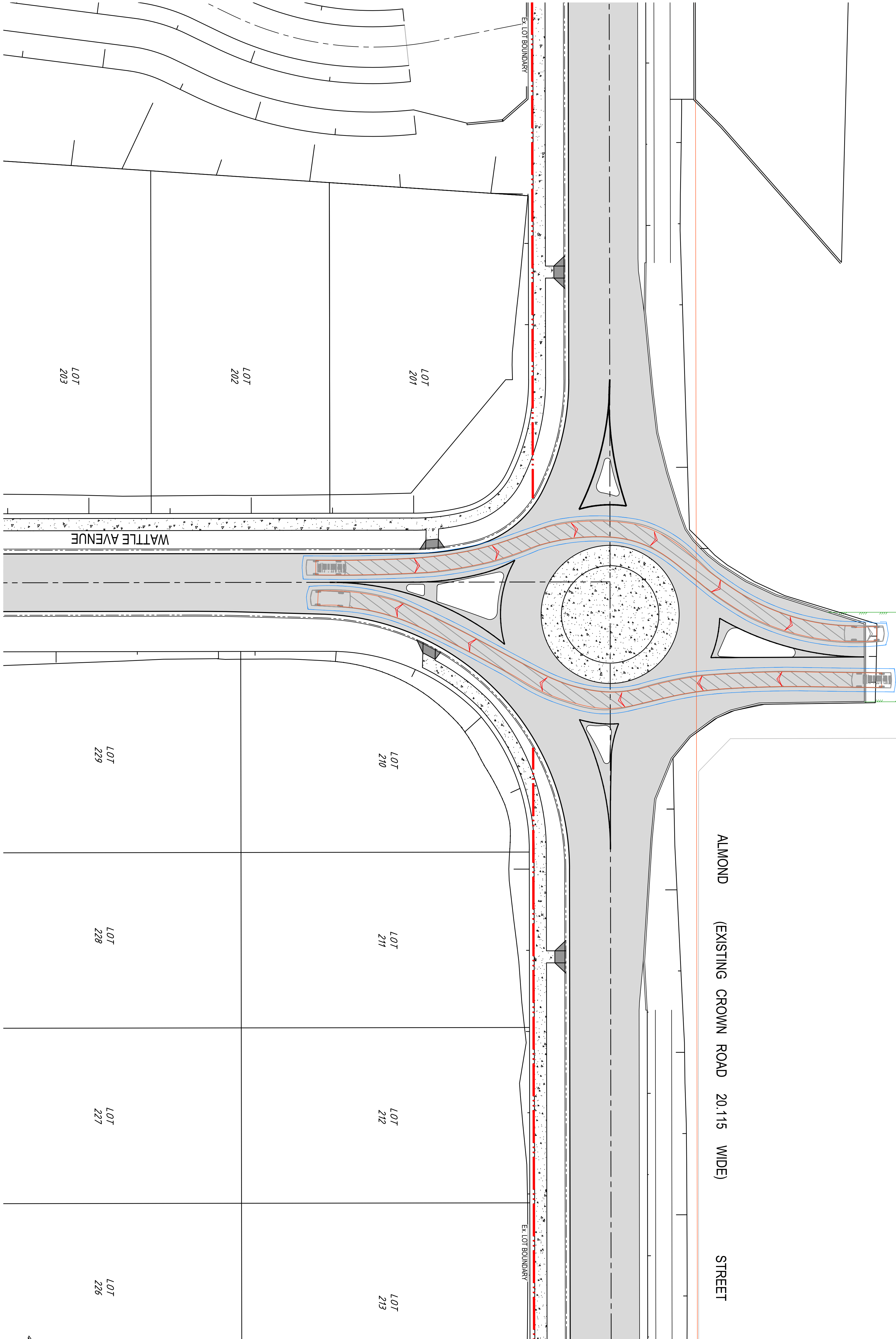


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Permacotta NSW 2150 Phone: 02 7809 4931
PO BOX 35/9 Permacotta 2124 Trading As: Telford Consulting Engineers



LEGEND

- VEHICLE BODY
- VEHICLE BODY CLEARANCE (0.5mm)
- WHEEL TRAILS
- ▨ VEHICLE BODY ENVELOPE



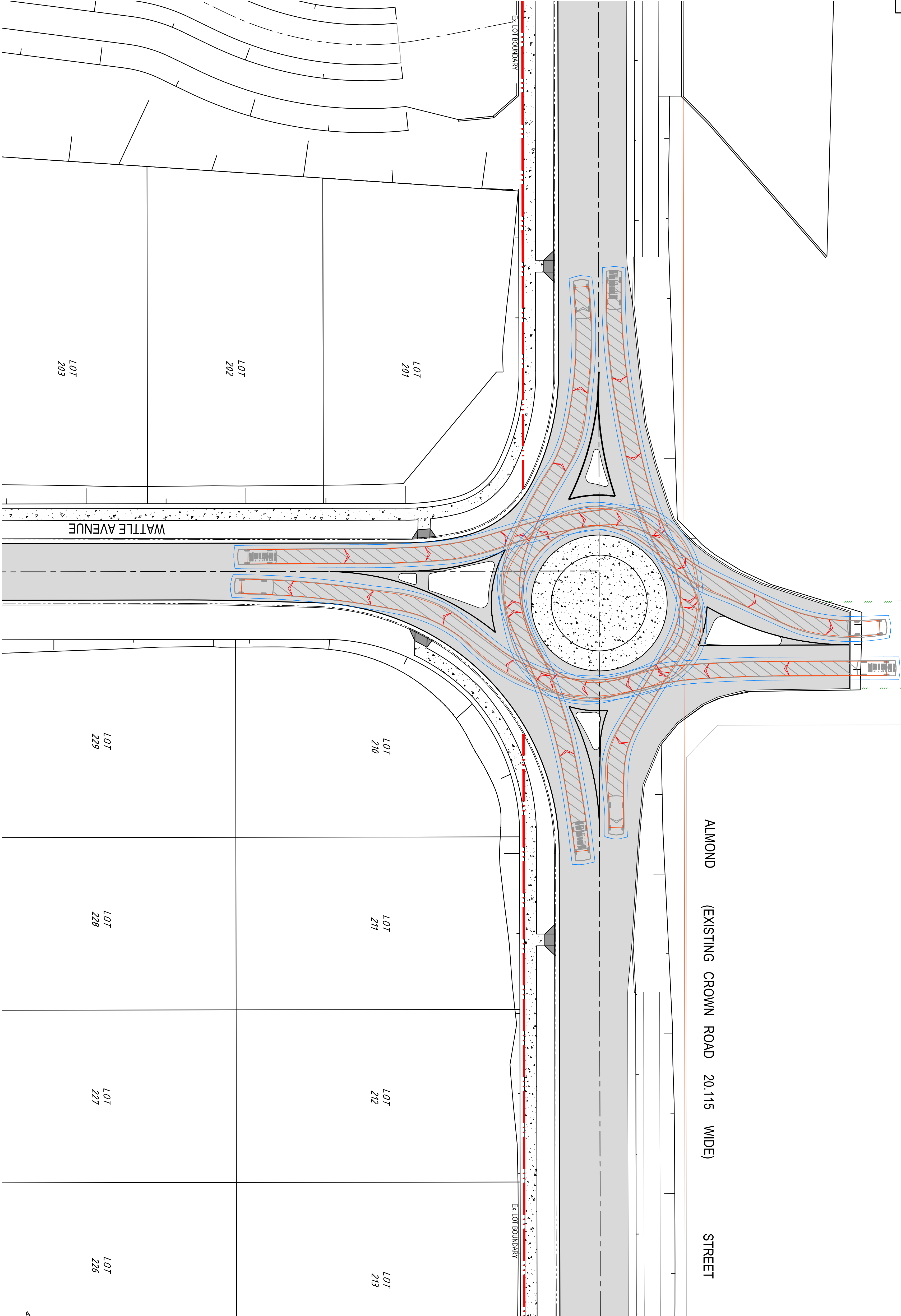
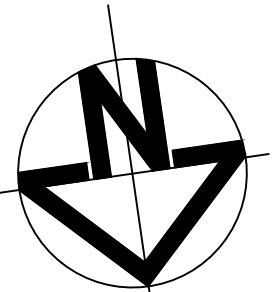
B85 Vehicle (Realistic mm radius) (2004)	
Overall Length	4.910m
Overall Width	1.870m
Overall Body Height	1.421m
Min Body Ground Clearance	0.159m
Track Width	1.770m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	5.750m



Zero Damage - Zero Harm

Client		Scale		Project		Drawing Title	
CHINA ORIENTAL INVESTMENT DOMAIN TRUST		0 2 4 6 8 10 12 m SCALE 1:250 @ A1		PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT		SWEPT PATH PLAN SHEET 7	
Council							
muswellbrook shire council							
Contract No. 14, Michael Chivers Civil & Structural Engineer							
Issue		Date		Design		Checked	
A		28/05/2026		J.L.B.		J.A.B.	
Description		ISSUE FOR VOLUNTARY PLANNING AGREEMENT					
Total and final size		100mm		250mm		Issue	

ALMOND (EXISTING CROWN ROAD 20.115 WIDE) STREET



	B85 Vehicle (Realistic min radius) (2004) Overall Length4.910m Overall Width2.800m Overall Body Height1.421m Min Body Ground Clearance0.159m Track Width1.770m Lock-to-lock time4.00s Curb to Curb Turning Radius5.750m
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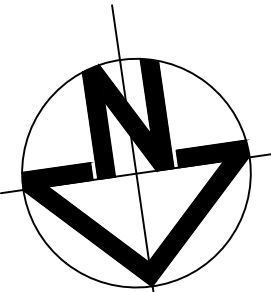
Zero Damage - Zero Harm

100mm 250mm										Certification by: J.A. Michael, Chartered Engineer, P.D. F.E. Asst., CPEng. Civil & Structural Engineer 									
A										Client									
ISSUE FOR VOLUNTARY PLANNING AGREEMENT										CHINA ORIENTAL INVESTMENT DOMAIN TRUST									
Description										Council									
Issue										muswellbrook shire council									
28/05/2026										J.J.B. J.A.B.									
Date										Design Checked									
J.J.B.										J.A.B.									

0 2 4 6 8 10 12 m SCALE 1:250 @ A1										Scale									
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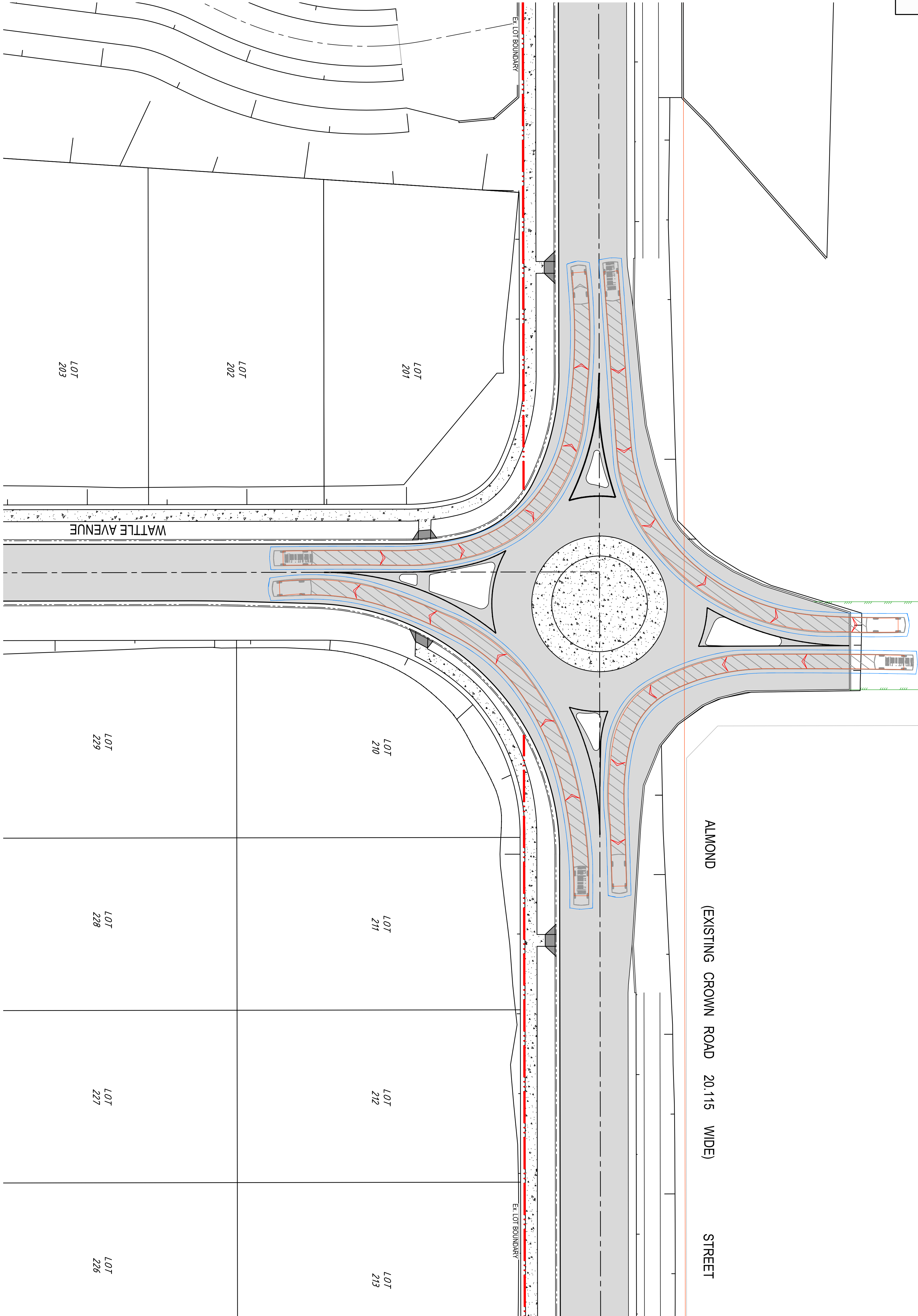
TEL FORD CIVIL CONSULTING CIVIL & STORMWATER ENGINEERS Level 14, 32 Smith Street, Parramatta NSW 2150 Phone : 02 7809 4931 Email : info@telfordcivil.com.au PO BOX 3579 Parramatta 2124Trading As : Telford Consulting Pty Ltd										Project									
VOLUNTARY PLANNING AGREEMENT										PROPOSED RESIDENTIAL SUBDIVISION									
ALMOND STREET, DENMAN										CIVIL ENGINEERING PLANS									
SHEET 8										Drawing Title									
SWEPT PATH PLAN										Scale									
A1										Project No.									
22048										Dwg No.									
727										Issue									
A										A									

shown paper



LEGEND

	VEHICLE BODY
	VEHICLE BODY CLEARANCE (0.5m)
	WHEEL TRAILS
	VEHICLE BODY ENVELOPE



Overall Length	Overall Width	Overall Height	Min Body Ground Clearance	Truck Width	Lock-to-lock time	Curb to Curb Turning Radius
4.91m	1.870m	1.421m	0.159m	1.770m	4.00s	5.750m



Zero Damage - Zero Harm

Client		Council		Scale		Project		Drawing Title	
CHINA ORIENTAL INVESTMENT DOMAIN TRUST		muswellbrook shire council		0 2 4 6 8 10 12 m SCALE 1:250 @ A1		PROPOSED RESIDENTIAL SUBDIVISION ALMOND STREET, DENMAN CIVIL ENGINEERING PLANS VOLUNTARY PLANNING AGREEMENT		SWEPT PATH PLAN SHEET 9	
Issue Description		Date		Design		Scale		Project No.	
ISSUE FOR VOLUNTARY PLANNING AGREEMENT		28/05/2026		J.B.B. J.A.B.		1:250		22048	
Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
A		28/05/2026		J.B.B. J.A.B.		1:250		22048	
Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
A		28/05/2026		J.B.B. J.A.B.		1:250		22048	
Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
A		28/05/2026		J.B.B. J.A.B.		1:250		22048	
Issue		Date		Design		Scale		Project No.	
A		28/05/2026		J.B.B. J.A.B.		1:250		22048	
Issue		Date		Design		Scale		Project No.	
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Issue		Date		Design		Scale		Project No.	
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Annexure B

Dispute Resolution Procedures

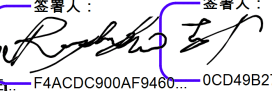
1.1 Dispute Resolution Procedure

- (a) Council and the Developer agree that in the interests of expeditiously resolving any dispute or difference which arises between them under or in connection with this Agreement (**Dispute**) they will use their best endeavours to resolve the Dispute by procuring the directors of The Developer and the General Manager of Council to enter into good faith negotiations within 10 Business Days (or such other period that the Parties may agree) of the Dispute arising.
 - (b) If the Dispute cannot be resolved within the period stipulated in or agreed pursuant to clause 1.1(a) above, the Parties may, subject to clause 1.1(c), submit to the process of adjudication set out in clauses 1.2 – 1.5.
 - (c) However, nothing in this Annexure B prevents either Party seeking final or interlocutory relief from a court in connection with a Dispute the subject of this Agreement without first having to attempt to negotiate and determine the Dispute in accordance with this Annexure B.
- 1.2 Either Party may issue a notice of dispute to the other within 14 days of the first occurrence or manifestation of the said Dispute or difference or act or omission if the Dispute or difference involves an act or omission. The notice is to set out the nature of the Dispute or difference and an outline of that Party's contentions in respect of the same with such reasonable particularity as is appropriate in the circumstances to allow the other Party to understand the matter in dispute and what is being contended.
 - 1.3 Within 7 days of receiving such notice of Dispute, the receiving Party shall issue to the other a response, setting out what it believes the nature of the Dispute is (if this is different to that set out in the notice of Dispute) and an outline of its contentions with such reasonable particularity as is appropriate in the circumstances to allow the Party who issued the notice of Dispute what the receiving Party contends in relation to the Dispute.
 - 1.4 The directors of the Developer and the General Manager of Council may direct that the Dispute be resolved by the process of expert determination as set out in sub-clause 1.7 below and the Dispute is then referred to expert determination. Such a direction is and will be final and binding and not in itself subject to a notice of Dispute.
 - 1.5 In every other case, the Dispute is to be resolved by arbitration pursuant to the provisions of the Commercial Arbitration Act, 2010.
 - 1.6 Where such Dispute fails to be resolved by expert determination, such a determination shall be conducted in accordance with and subject to the Resolution Institute Determination Rules and an appropriately qualified expert is to be appointed, subject to the reasonable objection by either Party, by the Chairman of the NSW Chapter of the Institute.
 - 1.7 Subject to clause 2 below, where such Dispute or difference is to be resolved by arbitration, the arbitration shall be conducted in accordance with and subject to the Resolution Institute Rules for the Conduct of Commercial Arbitrations with the arbitrator to be appointed, subject to reasonable objection by either Party, by the Chairman of the NSW Chapter of the Institute.
 - 1.8 In respect of all questions of procedure for any arbitration or expert determination the Parties shall participate in the same in good faith and do all and agree to do all things as are appropriate so as to achieve expedition in determination of the issues so referred.

2 Continuing liability

The reference of any Dispute for resolution under this Agreement will not relieve either Party

from any liability for the due and punctual performance of that Party's duties and obligations under this Agreement.

Signed by: 签署人: 签署人:
Sharon Pope 
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Signed by:

4F53DD05B09440E...

签署人:

4F53DD05B09440E...

签署人:

0CD49B279889405...