

# Lincoln Place Planning Agreement

Bega Valley Shire Council ("**Council**")

ABN 26 987 935 332 of PO Box 492 Bega, NSW, 2550 (**BVSC**)

And

Lincoln Place MHE Pty Limited ("**LP**")

ABN 17 632 672 676 of Level 5, 50 Clarence Street, Sydney, NSW, 2000 of  
Level 5 50 Clarence Street Sydney NSW 2000

**BAL** *Genuine  
leadership  
in law*

[www.ballawyers.com.au](http://www.ballawyers.com.au)

Deed made at Bega on 3 May .....2023

## Parties

**Bega Valley Shire Council** ABN 26 987 935 332 of PO Box 492 Bega, NSW, 2550 (BVSC)

And

**Lincoln Place MHE Pty Limited** ABN 17 632 672 676 of Level 5, 50 Clarence Street, Sydney, NSW, 2000 of Level 5 50 Clarence Street Sydney NSW 2000

## Background

- A. On or about 11 September 2020 LP obtained development consent (**the Development Consent**) to DA 2019.432 from BVSC to undertake a staged multi-dwelling housing and subdivision development (**the Development Project**) at 6 Storey Avenue, Eden, NSW, being all the land in Folio Identifiers 101/DP1275822 (**the Land**). The Consent was modified on 4 March 2021.
- B. The Development Project and Consent require the Developer to undertake various Stormwater Management Works to manage stormwater discharge from the Land. This includes the provision of Stormwater Management System(s) and associated works on the Land, as well as the registration of easements to drain water in favour of the Council, to enable the Council to access, service, repair and maintain that infrastructure.
- C. The Developer proposes to reconfigure and redirect stormwater through and from the Land and Development Project in a different manner to what the current configuration is which impacts the Storey Ave Road Reserve, which is owned by the Council.
- D. The public stormwater infrastructure located within the Storey Ave Road Reserve will need to be upgraded to accommodate stormwater discharge and transfer reconfiguration from the Development Project and other development within the Eden and Lake Curalo catchment which drains to the Storey Ave Road Reserve (**the Public Stormwater Upgrade Works**).
- E. In recognition of the benefit LP will obtain from the timely carrying out of the Public Stormwater Upgrade Works, LP has agreed to provide the Contribution to the Council to assist fund the Public Stormwater Upgrade Works on the terms and conditions of this deed.
- F. In accordance with section 7.4 of the Act, this deed formalises the arrangement between the Parties for:
  - a. the delivery of the Contribution by LP to the Council for the Public Stormwater Upgrade Works in connection with the Development; and
  - b. the carrying out of the Public Stormwater Upgrade Works by the Council.

## Operative Provisions

### 1. Definitions and Interpretation

#### 1.1 Definitions

In this deed:

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

**"Approval"** means any approvals, consents, modifications, certificates, permits, endorsements, licences, conditions or requirements (and any modifications or other variations to them) which may be required by law in connection with the commencement and carrying out, as applicable, of the works associated with the provision of the Contributions.

**"Authority"** means any governmental, semi-governmental, administrative, fiscal or judicial body, department, commission, authority, tribunal, agency or entity and includes an "accredited certifier" as that term is defined in the Act.

**"Business Day"** means any day on which banks are open for business generally in NSW, except for Saturday, Sunday or a day which is a public holiday in NSW.

**"Business Hours"** means from 9am to 5pm on each Business Day.

**"Commencement"** means the date that this deed is signed by both parties.

**"Costs"** means external costs, charges and expenses, including those incurred in connection with consultants and advisers.

**"Council"** means Bega Valley Shire Council.

**"Development"** means the development described in the Development Application

**"Development Application"** means DA 2019.432 and includes applications to modify the Development Consent.

**"Development Consent"** means consent 2019.432 granted by the Council to the Development Application on 11 September 2021, as modified from time to time.

**"Explanatory Note"** means the explanatory note in relation to the Planning Agreement, as required by clause 25E of the Regulations, and attached as Schedule 2 to this deed.

**"Force Majeure Event"** means an event affecting a party which is outside that party's reasonable control including fire, storm, flood, drought, earthquake, explosion, war, invasion, rebellion and sabotage.

**"GST"** has the same meaning as in the GST Law.

**"GST Law"** has the meaning given to that term in *A New Tax System (Goods and Services Tax) Act 1999* (Cth) and any other Act or regulation relating to the imposition of or administration of the GST.

**"Insolvent"** means where a Party;

- (a) has had a liquidator or receiver or receiver and manager is appointed to it (unless the application is withdrawn, struck out or dismissed within 14 days of being made); or
- (b) proposes a reorganisation, moratorium, deed of company arrangement or other administration involving one or more of its creditors, or it's winding up or dissolution; or
- (c) has come under administration as defined in section 9 of the Corporations Act 2001 (Cth), or action is taken which would result in that event; or
- (d) is unable to pay its debts and liabilities as they fall due as disclosed in its accounts; or
- (e) a writ of execution is levied against it or its property;
- (f) any other secured creditor has commenced action to enforce its security; or
- (g) it is otherwise presumed insolvent under an applicable Law; or
- (h) anything occurs under the law of any jurisdiction which has a substantially similar effect to any of the above paragraphs of this definition.

**"Land"** means 6 Storey Avenue, Eden, NSW being all the land in Folio Identifiers 101/DP1275822.

**"Law"** means

- (a) the common law including principles of equity; and
- (b) the requirements of all statutes, rules, ordinances, codes, regulations, proclamations, by-laws or consents by an Authority,

presently applying or as they may apply in the future.

**"Legislation"** means any statute, rule, ordinance, code, regulation, proclamation, by-law or consent by an Authority.

**"LP"** means Lincoln Place MHE Pty Limited (including any controlled, associated or related entity of Lincoln Place MHE Pty Limited involved in the undertaking of the Development)

**"Monetary Contribution"** means \$200,000.00 (inclusive of any GST).

**"Party"** means a party to this deed, including their respective successors and assigns.

**"Register"** means the Torrens title register maintained under the *Real Property Act 1900* (NSW).

**"Public Purpose"** means the Public Stormwater Upgrade Works.

**"Public Stormwater Upgrade Works"** means the upgrade of the Public Stormwater System as described and shown in Schedule 3.

**"Practical Completion"** means the date the Council gives notice to the LP that the Public Stormwater Upgrade Works are substantially complete and fit for connection and use.

**"Regulation"** means the *Environmental Planning and Assessment Regulation 2021* (NSW).

**"Solicitors for the Council"** means Williams Love & Nicol Lawyers Pty Ltd CAN 096 408 374 trading as BAL Lawyers, or such other law firm as notified by the Council to the Developer in writing.

**"State"** means the State of New South Wales.

**"Subdivision Certificate"** has the meaning given to that term in Part 6 of the Act.

**"Tax Invoice"** has the meaning given to that term in the GST Law.

## 1.2 Interpretation

In this deed:

- (a) headings are for convenience only and do not affect interpretation;  
and unless the context indicates a contrary intention:
- (b) "person" includes an individual, the estate of an individual, a corporation, an Authority, an association or a joint venture (whether incorporated or unincorporated), a partnership and a trust;
- (c) a reference to a Party includes that party's executors, administrators, successors and permitted assigns, including persons taking by way of novation;
- (d) a reference to an Authority in this deed includes,
  - (1) where an Authority ceases to exist, the body which replaces it; and
  - (2) where an Authority has its powers or functions transferred to another body the body which has the same or similar powers and which performs the same or similar functions.
- (e) neither this deed nor any part of it is to be construed against a party on the basis that the party or its lawyers were responsible for its drafting;
- (f) a reference to a document (including this deed) is to that document as varied, novated, ratified or replaced from time to time;
- (g) a reference to a statute includes its delegated legislation and a reference to a statute or delegated legislation or a provision of either includes consolidations, amendments, re-enactments and replacements;
- (h) a word importing the singular includes the plural (and vice versa), and a word indicating a gender includes every other gender;
- (i) a reference to a party, clause, schedule, exhibit, attachment or annexure is a reference to a party, clause, schedule, exhibit, attachment or annexure to or of this deed, and a reference to this deed includes all schedules, exhibits, attachments and annexures to it;
- (j) if a word or phrase is given a defined meaning, any other part of speech or grammatical form of that word or phrase has a corresponding meaning;
- (k) "includes" in any form is not a word of limitation;

- (l) a reference to dollars or \$ is to Australian currency; and
- (m) a reference to a term or expression defined in the Act shall have the meaning given to it by the Act.

## **2. Status of this deed**

- (a) This deed takes effect from Commencement.
- (b) The Parties will use their best endeavours to execute this deed within 14 Business Days from the end of the public notice period required by s. 7.5 of the Act.

## **3. Planning Agreement under the Act and Policy**

- (a) The Parties agree that this deed is a planning agreement within the meaning of section 7.4 of the Act.
- (b) Schedule 1 of this deed summarises the requirements for planning agreements under section 7.4 of the Act and the way this deed addresses those requirements.

## **4. Application of this deed**

This deed applies to:

- (a) the Land; and
- (b) the Development.

## **5. Contributions**

### **5.1 Timing of Monetary Contribution**

- (a) Within 90 days of Commencement, LP must pay the Monetary Contribution into a trust account managed by the Solicitors for the Council. Payment must be made via one of the following methods:

#### **BPay**

Biller Code: 423236

Biller Ref: 305614620167732

Contact your participating financial institution to make a BPAY payments using the biller code and reference number as detailed above.

#### **DEFT Payment**

Pay by credit card or registered bank account at [www.deft.com.au](http://www.deft.com.au) or phone 1300 30 10 90. Payment by credit card may attract a surcharge.

DEFT Reference Number:

305614620167732

- (b) The Monetary Contribution to be held by the Solicitors for the Council until the funds may be released to the Council in accordance with cl. 5.1(c).
- (c) The Monetary Contribution will be released to the Council by the Council's solicitor no earlier than 14 days after Practical Completion.
- (d) The Monetary Contribution must be paid in full and receipted by the Solicitors for the Council prior to the issue of a Subdivision Certificate for the Development. This subclause operates as a restriction on the issue of a Subdivision Certificate for the Development Project for the purpose of s 6.15 of the Act.
- (e) The Council agrees to apply the Monetary Contribution only towards the Public Purpose.

## **5.2 Timing of public works**

- (a) The Council agrees to use all reasonable endeavours to carry out and achieve Practical Completion of the Public Stormwater Upgrade Works before the latter of:
  - (1) The date 12 months from the date that a Construction Certificate for the Development Project is issued by the Council (acting as PCA) or is otherwise provided to it; or
  - (2) The date 14 months from the date of commencement of this deed.
- (b) In the event that the Public Stormwater Upgrade Works do not achieve Practical Completion in accordance with cl 5.2(a), the Council is to
  - (1) continue to progress the Public Stormwater Upgrade Works to achieve Practical Completion of those works as soon as possible; and
  - (2) provide fortnightly updates to the LP as to the status of those works until Practical Completion is achieved.

## **6. Application of s.7.11, s.7.12 and s.7.24 of the Act to the Development**

- (a) This deed does not exclude the application of section 7.11 of the Act to the Development.
- (b) The making of the Monetary Contribution is not to be taken into consideration in determining a development contribution under section 7.11 of the Act.
- (c) This deed does not exclude the application of section 7.12 of the Act to the Development.
- (d) This deed does not exclude the application of section 7.24 of the Act to the Development.

## **7. Interests in the Land**

### **7.1 Ownership**

LP represents and warrants to the Council that;

- (a) It owns the Land or has the exclusive right to own the Land; and

- (b) It has the right to carry out the Development on the Land.

## **7.2 Registration**

- (a) The Developer agrees to register this Deed on the title for the Land if requested to do so by the Council
- (b) If the Council requires this Deed to be registered, the Developer must do all things required to enable timely registration to occur, including by obtaining the consent of each person who has an estate or interest in the Land to its registration.
- (c) If this deed is registered, the Developer may ask the Council to consent to it being removed once the Monetary Contribution has been made as required by this Deed.
- (d) LP warrants that it has the unconditional and irrevocable consent of the owner of the Land and of each person who has an estate or interest in the Land to register this Deed on the title for the Land.

## **8. Enforcement of Obligations**

### **8.1 Enforcement**

This deed may be enforced by any Party in any court of competent jurisdiction.

### **8.2 Security**

- (a) The parties acknowledge and agree that:
  - (1) the effect of clause 5.1. is to require the Monetary Contribution to be paid before the issue of Subdivision Certificate for the Development Project;
  - (2) the Council may require registration of this deed on the title to the Land; and
  - (3) the effect of clause 11 is to bind any future Developer to the terms of this deed.

## **9. Termination**

9.1 This deed terminates if any of the following circumstances arise:

- (a) If the Development Consent is held to be void by any Court; or
- (b) if the Development Consent expires or is surrendered; or
- (c) if LP becomes Insolvent.

9.2 In the event of termination:

- (a) The Council is not required to carry out or complete the Public Stormwater Upgrade Works in accordance with this deed or at all.
- (b) The Council is not required to refund or return the Monetary Contribution or any part of it which has been made.



## **10. Dispute Resolution**

### **10.1 Parties to meet**

- (a) If a dispute between the Parties arises in connection with this deed or its subject matter then either Party may give the other Party a Notice of Dispute in writing identifying and providing details of the dispute.
- (b) The Parties must continue to perform their respective obligations under this deed despite the existence of a dispute.
- (c) Representatives of the Parties must promptly (and in any event within 10 Business Days of the Notice of Dispute) meet in good faith to attempt to resolve the notified dispute.
- (d) The disputing Parties may, without limitation:
  - (1) resolve the dispute during the course of that meeting;
  - (2) agree that further material, or arbitration about a particular issue is needed to effectively resolve the dispute or agree to a form of alternative dispute resolution (in which event the parties will, in good faith, agree to a timetable for resolution); or
  - (3) agree that the disputing parties are unlikely to resolve the dispute.

### **10.2 Litigation**

- (a) If a dispute arises between the Council and LP in relation to this Deed then the disputing Parties must not commence any court proceedings relating to the dispute unless the disputing Parties have first complied with the processes in clause 10.1.
- (b) If the dispute is not finally resolved in accordance with the process in clause 10.1 then any disputing Party is at liberty to litigate the dispute.
- (c) Nothing in this clause 10 prevents:
  - (1) either party from seeking urgent interlocutory relief;
  - (2) either party from bringing proceedings in a Court of competent jurisdiction to enforce any aspect of this deed or any matter to which this deed relates; or
  - (3) either party from exercising any function under any Legislation, including the Act, or any other Law relating to the enforcement of any aspect of this deed or any matter to which this deed relates.

## **11. Change of beneficiary of the Development Consent**

- (a) If LP intends to cease to be the person entitled to carry out the Development, it must:
  - (1) Give 14 days advance notice to the Council of the identity of the person who will carry out the Development (**the new Developer**), including by providing a phone number, email address and postal address for the new Developer and, if requested by the Council,

evidence of the new Developer's capacity to make the Contribution;  
and

- (2) Procure that LP and the new Developer enter into a deed of novation on terms acceptable to the Council, acting reasonably, and under which
  - i. the new Developer replaces LP in this Deed as if the new Developer was an original party to this Deed;
  - ii. the new Developer obtains all the rights and assumes all the obligations of LP under this Deed;
  - iii. LP and the Council each release the other from any Claim, obligation or liability arising under this Agreement, whether arising before or after the novation date.
- (b) Nothing in this clause requires any other person to pay the Monetary Contribution, if it has already been paid in accordance with clause 5.1.

## **12. Review and amendment of this deed**

- (a) This deed may be reviewed or modified by the Parties at any time. Any review or modification of this deed will be conducted in the circumstances and in the manner determined by the Parties.
- (b) No modification or review of this deed will be of any force or effect unless it is in writing and signed by both Parties.

## **13. Costs**

Each party is to pay its own costs and expenses (including legal fees) of and incidental to the preparation, negotiations, execution and (where applicable) the stamping and registration of this deed.

## **14. GST**

- (a) Words and expressions which are not defined in this deed but which have a defined meaning in GST Law have the same meaning as in the GST Law.
- (b) Unless otherwise expressly stated, all prices or other sums payable or consideration to be provided under this deed are exclusive of GST.
- (c) If GST is imposed on any supply made under or in accordance with this deed, LP must pay the GST or pay to the Council an amount equal to the GST payable on or for the taxable supply, whichever is appropriate in the circumstances.

## **15. Use of Explanatory Note**

The Explanatory Note must not be used to assist in construing this deed.

## **16. Notices**

- (a) A notice given by either Party pursuant to this deed has no legal effect unless it is in writing.

- (b) All written notices given under this deed may be validly given by any one of the following means:
- (1) by sending it by prepaid post to the address of the Party;
  - (2) by email to the email address of the Party to be served; or
  - (3) by delivering it to the Party to be served.
- (c) The Parties expressly acknowledge that it is each Party's responsibility to ensure that the other is fully aware of that Party's current contact details at all times throughout the duration of this deed. Notices sent by one Party to the other Party which are addressed to an address previously notified to the delivering Party as the other Party's address are deemed received by the other Party unless and until that other Party can prove it had notified the delivering Party of a more recent address.
- (d) A notice shall be deemed to be given and received:
- (1) if sent by pre-paid post or by document exchange, 2 Business Days after it has been posted;
  - (2) if sent by email during Business Hours, on the day it was sent and, if sent by email outside Business Hours, on the first Business Day after the day it was sent; and
  - (3) if delivered during Business Hours, on the day of delivery and, if delivered outside Business Hours, on the first Business Day after the day of delivery.
- (e) As at the date of this deed each Party's address for service is as follows:
- For the Council:**
- Delivery address: PO Box 492, Bega NSW 2550
- Post: PO Box 492, Bega NSW 2550
- Email: rmarshall@begavalley.nsw.gov.au
- For LP**
- Delivery address: Level 5, 50 Clarence Street, Sydney, NSW, 2000
- Post: Level 5, 50 Clarence Street, Sydney, NSW, 2000
- Email: benhindmarsh@lincilnolace.com.au
- (f) A notice given or a document signed or served on behalf of any Party by any director or company secretary or solicitor of that Party shall be deemed to have been given, signed or served by that Party personally.

- (g) Any notice sent by email will be taken to have been received by the addressee for the purposes of this deed unless the sender receives a message indicating that delivery has failed.
- (h) A Party may change its address for notices by giving the other Party 3 Business Days' written notice of the change.

## **17. Miscellaneous**

### **17.1 Relationship of the Parties**

- (a) Nothing in this deed creates a relationship of agency between the Parties or, except as expressly provided, authorises one of them to enter into any contracts or other commitments which bind any other Party without their express written approval.
- (b) Nothing in this deed is intended or to be implied to create a relationship of employment, public-private partnership or joint venture between the Parties or any of their respective agents, employees, sub-contractors and assigns.

### **17.2 No Waiver**

- (a) Any delay or failure to enforce any term of this deed will not be deemed to be a waiver.
- (b) There is no implied waiver by either Party in respect of any term of this deed and any waiver granted by either Party shall be without prejudice to any other rights.
- (c) Any waiver must be in writing, and in the case of the Council, signed by the General Manager.
- (d) A waiver by a Party of its rights under this deed is only effective in relation to the particular obligation or breach in respect of which it is given, and does not cover subsequent breaches of the same or a different kind.

### **17.3 No Fetter**

Nothing in this deed is to be construed as requiring an authority to do anything that would cause it to be in breach of any of its obligations at Law, and without limitation:

- (a) nothing in this deed is to be construed as limiting or fettering in any way the exercise of any statutory discretion or duty; and
- (b) nothing in this deed imposes any obligation on the Council to:
  - (1) grant development consent or project approval; or
  - (2) exercise any function or power under the Act in relation to a change, or a proposed change, in an environmental planning instrument.

### **17.4 Governing Law**

This deed shall be governed by and construed in accordance with the Law of New South Wales and the Commonwealth of Australia and the parties submit themselves to the exclusive jurisdiction of the courts of those jurisdictions and those that have jurisdiction to hear any appeals from them.

**17.5 Entire Agreement**

This deed:

- (a) is the entire agreement of the Parties concerning everything connected with the subject matter of this deed; and
- (b) supersedes any prior representations, statements, promises or understanding on anything connected with that subject matter.

**17.6 Severability**

If any provision of this deed is void, unenforceable or illegal in the jurisdiction governing this deed, then:

- (a) it is to be read down so as to be valid and enforceable; or
- (b) if it cannot be read down, the provision (or where possible the offending words), is severed from this deed and the rest of this deed remains in force.

**17.7 Counterparts**

This deed may be executed in any number of counterparts, all of which taken together constitute one and the same document.

**17.8 Further assurances**

Each Party must promptly execute all documents and do all other things reasonably necessary or desirable to give effect to the arrangements recorded in this deed.

**17.9 Representation and Warranties**

The Parties represent and warrant that they have the power to enter into this deed and to comply with their obligations under this deed.

**17.10 Confidentiality**

This deed may be treated as a public document.

**17.11 Time for doing acts**

- (a) If the time for doing any act or thing required to be done or a notice period specified in this deed expires on a day other than a Business Day, the time for doing that act or thing or the expiration of that notice period is extended until the following Business Day.
- (b) If any act or thing required to be done is done after 5.00pm on the specified day, it is taken to have been done on the following Business Day.

Executed as a Deed on 3 May 2023

**EXECUTED** for and on behalf of Bega Valley  
Shire Council by its authorised delegate, in  
accordance with a resolution of the Council  
made on


  
Signature of Authorised Delegate

ANTHONY MCMAHON  
Name of Authorised Delegate (in full)

  
Signature of Witness

JACQUELINE GRANT  
Name of Witness (in full)

**EXECUTED BY Lincoln Place MHE Pty  
Limited** ABN 17 632 672 676 pursuant to S.127  
Corporations Act, 2001 by the undersigned

  
Signature of Director/ ~~Secretary~~

NICHOLAS COLLISTER  
Name of Director/ ~~Secretary~~

  
Signature of ~~Witness~~ DIRECTOR

BEN WISMARK  
Name of Director/ ~~Secretary~~

## Schedule 1: Section 7.4 Requirements

SUBJECT AND SUBSECTION OF THE ACT	THIS PLANNING AGREEMENT
LP has:	
(a) sought a change to an environmental planning instrument	LP has made a Development Application and received development consent for multi-dwelling housing and a 16 lot torrens title subdivision of the Land.
(b) made, or proposes to make, a Development Application	
(c) entered into an agreement with, or is otherwise associated with, a person, to whom paragraph (a) or (b) applies	
Description of the land to which this Planning Agreement applies – s.7.4(3)(a)	Refer to clause 4 and definition of 'Land' in clause 1
Description of the development –s.7.4(3)(b)	Refer to the definition of Development Consent in clause 1
The nature and extent, timing, and manner of delivery of contribution required by this Planning Agreement – s. 7.4(3)(c)	Refer to clause 5
Applicability of s.7.11 of the Act – Section 7.4(3)(d)	Refer to clause 6
Applicability of section 7.12 of the Act – Section 7.4(3)(d)	Refer to clause 6
Applicability of section 7.24 of the Act – Section 7.4(3)(d)	Refer to clause 6
Whether benefits are to be taken into account under section 7.11 – Section 7.4(3)(e)	Refer to clause 6
Mechanism for dispute resolution – Section 7.4(3)(f)	Refer to clause 10
Enforcement of the Planning Agreement – Section 7.4(3)(g)	Refer to clause 8.1
Registration of the Planning Agreement – Section 7.6	Refer to clause 7.2
No obligation to grant consent or exercise functions – Section 7.4(9)	Refer to clause 17.3

## **Schedule 2: Explanatory Note**

### **Planning Agreement for Monetary Contribution**

#### **Introduction**

The purpose of this Explanatory Note is to provide a plain English summary to support the notification of the proposed Planning Agreement (the "**Planning Agreement**") prepared under Section 7.4 of the *Environmental Planning & Assessment Act 1979* (the "**the Act**").

This Explanatory Note has been prepared jointly by the Parties as required by clause 25E of the *Environmental Planning & Assessment Regulation 2000* ("**the Regulation**").

This explanatory note is not to be used to assist in construing the deed.

#### **Parties to the Planning Agreement**

The Parties to the Planning Agreement are Bega Valley Shire Council ("**Council**") and Lincoln Place MHE Pty Limited, ABN 17 632 672 676 ("**Developer**"). The Council has granted development consent to the Development Application lodged by the Developer.

The Developer has made an offer to pay a monetary contribution to the Council to be put towards the cost of upgrading public stormwater infrastructure in the vicinity of the Development.

#### **Summary of the objectives, nature and effect of the Planning Agreement**

The objective of the Planning Agreement is to record the terms of the offer made by the Developer and its obligations to make a monetary contribution for a public purpose to the Council.

The effect of the agreement is that the Developer will be required to pay a one-off monetary contribution in the amount of \$ 200,000.00 to the Council prior to the issue of a subdivision certificate enabling the subdivision of the Land. The Contribution is to be applied by the Council for the public purpose of upgrading public stormwater infrastructure in the road reserve adjacent to the Land.

#### **Assessment of the Merits of the Planning Agreement**

The benefits of the Planning Agreement are that the contribution will fund for public stormwater upgrade works in the Bega Valley local government area which will assist in ensuring the ongoing adequacy of stormwater collection and management for the benefit of the catchment community.

#### **Identification of how the Planning Agreement promotes the public interest and the objects of the Act**

The Planning Agreement promotes the public interest and the objects of the Act by providing a monetary contribution that offsets the costs that would otherwise have been drawn from Council funds.

#### **Identification of how the Planning Agreement promotes elements of the Council's Charter under the *Local Government Act 1993***

The Planning Agreement is consistent with the following guiding principles for Councils in section 8A of the *Local Government Act 1993* (which have replaced the Council Charter):

- In exercising functions generally:

AM  
BN  
P



- Councils should carry out functions in a way that provides the best possible value for residents and ratepayers.
- Councils should plan strategically, using the integrated planning and reporting framework, for the provision of effective and efficient services and regulation to meet the diverse needs of the local community.
- Councils should manage lands and other assets so that current and future local community needs can be met in an affordable way.
- In decision making:
  - Councils should recognise diverse local community needs and interests.
  - Councils should consider the long term and cumulative effects of actions on future generations.
  - Councils should consider the principles of ecologically sustainable development.

The Planning Agreement is consistent with these principles in that it requires a monetary contribution to be paid to mitigate the impacts of private development on public road infrastructure used by the broader community.

**Identification of the planning purpose served by the Planning Agreement and whether the Planning Agreement provides for a reasonable means of achieving that purpose**

The planning purpose served by the Planning Agreement is the development and improvement of infrastructure for public purposes, namely, public stormwater infrastructure.

The Planning Agreement provides a reasonable means of achieving these public purposes by providing funds which Council will use to upgrade its stormwater infrastructure in the area.

**Identify whether the agreement, amendment or revocation conforms with the planning authority's capital works program (if any),**

The Planning Agreement is not inconsistent with Council's Capital Works Program.

**How the Planning Agreement promotes the public interest**

The Planning Agreement promotes the public interest by funding stormwater upgrade works for the benefit of the catchment community.

**Enforcement of the contribution**

The benefits under the agreement are suitably secured as the contribution must be made prior to the issue of a subdivision certificate.

The Council can also require the VPA to be registered on the title to the Land.

### **Schedule 3- Public Stormwater Upgrade Works**

The construction of all works within the existing Storey Avenue Road Reserve as described in the approval issued by the Council to Lincoln Place MHE Pty Ltd under s.138 of the *Road Act* 1993 dated 14 December 2022 and annexed to this Schedule.

Handwritten signatures and initials in the bottom right corner of the page. There are three distinct marks: a stylized signature, the letters 'RA' with a downward arrow, and another signature.

Annexure to Schedule 3



PO Box 492, Bega NSW 2550  
(02) 6499 2222  
(02) 6499 2200  
council@begavalley.nsw.gov.au

26 987 935 332  
4904 Bega

DA: 2019,432  
RA-2022-10622

14 December 2022

Lincoln Place MHE Pty Ltd  
Ground Floor, 135/137 Macquarie Street

**DECLARATION**  
Under Section 138 of the *Roads Act 1993*

The work completed in accordance with the attached certified plans and specifications will comply with the requirements Section 138 of the *Roads Act 1993*.

APPLICANT	Lincoln Place MHE Pty Ltd
LAND	Storey Ave Road Reserve
LOCATION	6 Storey Avenue EDEN, 81 Princes Highway EDEN
PARCEL NUMBER	43390
USE AND/OR DEVELOPMENT	Construction of public works
DATE OF ISSUE	14 December 2022

Pursuant to Section 139 of the *Roads Act, 1993* notice is hereby given of the determination by Council of the subject application.

The application has been determined by the **GRANTING OF APPROVAL** subject to the following conditions which are required to be complied with **prior** to the issue of any Occupation Certificate issued under the Environmental Planning and Assessment Act 1979.

**1. Construction and related to public infrastructure**

All public engineering works (driveway crossover, footpaths, roadworks, stormwater works etc) must be inspected and tested by Council's inspector in accordance with Council's Development Design and Construction Specifications.

Typically, inspections are required at, but not limited to, the following stages:

- After placement of all signs and control measures in accordance with the approved Traffic Control Plan;
- After stripping of topsoil from roads and fill areas, all Soil & Water Management Plan controls shall be in place at this stage;
- During application of bitumen seal or asphaltic concrete wearing surface;

Section 138 certificate

- d) After completion of works;
- e) As otherwise required to confirm that the works are satisfactorily executed and in conformity with environmental controls.

It should be noted that Council charges fees for inspections and certificates.

The developer will complete quality assurance testing of all public asset works in accordance with the inspection and testing plans detailed in Council's Development Construction Specifications.

Testing results shall be provided as required throughout the construction phase of the development.

## 2. CCTV of Stormwater Infrastructure

Prior to Council accepting new stormwater infrastructure, a CCTV inspection of all new and modified stormwater assets must be undertaken in accordance with the Conduit Inspection Reporting Code of Australia WSA 05.

A copy of the CCTV inspection footage and inspection report prepared and certified by a suitably qualified person shall be provided to Council prior to the acceptance of works into the nominated 'into maintenance period'

## 3. Public Engineering Work Completion Certificate

All public engineering works (driveway crossover, footpaths, roadworks, stormwater works etc) shall be constructed in accordance with the accepted construction plans, Council's Development Construction Specifications and conditions of this consent.

In this regard a Completion of Engineering Works Certificate (Compliance Certificate) must be obtained from Council prior to the issue of an Occupation Certificate.

## 4. Works as Executed Plans

Council shall be provided with the following works as executed plans for all public assets constructed:

- a) A PDF copy of the construction certificate plans clearly marked up to show all variations from the approved design.
- b) AutoCAD DWG or DXF file that includes the as-built details of all works. The map projection in the drawing shall be GDA2020 zone 55 and different infrastructure elements shall be delineated into different drawing layers.

Works as executed plans must be prepared and certified by an experienced Surveyor or Professional Engineer as a complete and accurate record of the work.

## 5. Stormwater Drainage Easements

Establishment of easements to drain water not less than 3.0 metres wide (piped) in favour of Council within all lots (and downstream where proposed) that contain stormwater drainage works within a Council-controlled drainage system. The width of easements to contain overland flow paths will be determined based on the conveyance system for the major event (1 in 100 year ARI) peak flow.

A copy of the plan registered with the NSW Land and Property Information creating this easement shall be provided to the Council demonstrating compliance.

#### **5. Maintenance of public works**

The developer is liable for maintenance of the works to which the S138 Certificate relates. The developer shall;

- a) Remedy any defects in the public works that arise within 12 months after acceptance of practical completion by council
- b) Making good any damage caused to any property of Council as a consequence of the doing of anything to which the consent relates,

In this regard the developer must enter into a bonding deed with Council prior to the issue of the occupation certificate. In this regard the developer shall provide Council a cash bond or bank guarantee in an amount equivalent to 5.0% of the final construction value of the public works for which Council is accepting maintenance responsibility for.

The funds realised from this security may be paid out by Council to meet any costs referred to in paragraph (a) or (b) above. A bond administration fee will be payable to Council, as per the latest schedule of fees and charges.

At the cessation of the maintenance period the developer must write to Council to request release of the bond. A final inspection will be required prior to release of the bond.

#### **Lapsing of approval**

*This approval lapses five years after the date from which it operates, unless where the related Development Consent detailed on this determination has been substantially physically commenced.*

#### **Notes**

All inspections as per BVSC standard inspection and testing regime – see attached

*Jamie Pickett*

Assessing Officer

FOR BEGA VALLEY SHIRE COUNCIL

**Quality Assurance**

The Contractor is responsible for developing and submitting Inspection and Test Plan(s) (ITP) for its work on the project for approval prior to starting work. The Contractor shall arrange all inspections as required by the ITP(s) and obtain signatures.

The Superintendent and Council are separately responsible for attending and signing off (or requiring rectification) of all inspections as per the ITP(s) and requirements of this clause. The Superintendent is responsible for monitoring progress of the ITP(s) and verifying all inspections are signed and lodged with the Principal Certifier prior to handover of assets.

Before starting any site works you also need to organise a site meeting between Council's Planning and Water and Sewer Quality Assurance Inspectors, the Contractor and a Developers Representative who is authorised to receive any notices or directions from Council. 02 6499 2222

All works are to be carried out in accordance with Council's technical specifications for civil engineering works.

Construction work shall take place during normal working hours, namely 7am to 5pm, Mondays to Fridays and 8am to 1pm Saturdays (no work on Sundays or Public Holidays)

## **Standard Inspection Regime and Testing Requirements**

### **TRAFFIC**

Temporary signs and markings

### **ENVIRONMENTAL**

Erosion and sediment controls

### **STORMWATER**

Stormwater Pipes – prior to backfill above the haunch zone.

Subsoil drainage pipes – prior to backfill of filter material.

Stormwater Pits – inspection of forms and reinforcement prior to concrete pour.

For precast pits check that pipes have been grouted in.

### **SUBGRADE**

CBR Testing – 4 Day soaked test, compacted to 95% of MDD, Standard. Take samples from one site every 60-100m of road length. Samples should be taken from natural material only (not select fill). For new roads pavement design should already be done and the CBR testing is to confirm the design assumptions.

Density Test – Minimum compaction 97% Modified. Moisture content to be 60%-90% of OMC. One test for every 500m<sup>2</sup> or part thereof.

Proof-roll - full prepared width using large roller, large grader or full water cart.

Level conformance - survey report that details conformance of the subgrade levels with the design drawings, at centre-line and kerb-line.

### **SUB-BASE AND BASECOURSE LAYERS**

Proof-roll under K & G

Proof-roll - full pavement width using large roller, large grader or full water cart.

Density Test – Minimum compaction 97% Modified. Moisture content to be 60%-90% of OMC. One test for every 500m<sup>2</sup> or part thereof.

Material Testing – Atterberg limits, MC, CBR

Level conformance - survey report that details conformance of the sub-base levels with the design drawings, at centre-line and kerb-line.

### **CONCRETE**

Prior to concrete pour of paths, driveways, pits and other structures.

### **RETAINING WALLS AND STRUCTURES**

Foundations, backfill and drainage, typically needs sign off from a structural engineer – see consent.

### **FINAL**

General workmanship of all works including pit/lintel/grate finish.

Full water cart to be on-site to test SW drainage/kerbs at sag points.

### **Notes on wearing course**

Prime (tack coat) wait 48 hours, double double 14mm x 7mm C170 hot bitumen seal.

Initial Primerseal wait 6 – 12 months. Double double 14mm x 7mm C170 hot bitumen seal (Bonded)

Initial double double 14mm x 7mm C170 hot bitumen seal wait 6-12 months. Final coat. (Bonded)

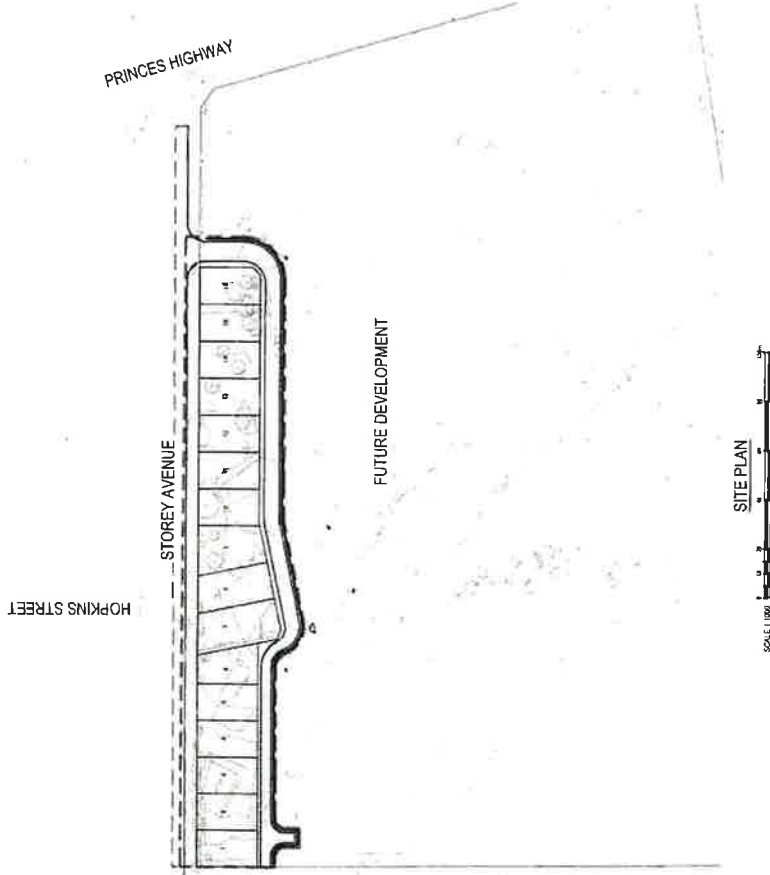
S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY

# PROPOSED MULTI UNIT HOUSING DEVELOPMENT PRINCES HIGHWAY EDEN SUBDIVISION WORKS - CONSTRUCTION CERTIFICATE

DWG No.	DESCRIPTION	REV
C1.01	COVER SHEET AND DRAWING INDEX	F
C1.02	NOTES AND LEGEND	F
C1.03	DETAILS - SHEET 1	F
C1.04	DETAILS - SHEET 2	F
C1.11	STAGING PLAN	F
C2.01	SITE GRADING PLAN	F
C2.11	STORMWATER MANAGEMENT PLAN	F
C2.21	PAVEMENT PLAN	F
C2.31	SIGNAGE AND LINEMARKING PLAN	F
C2.41	STREETSCAPE AND PUBLIC DOMAIN PLAN	F
C2.51	ROAD CONTROL PLAN	F
C3.11	ROAD LONGITUDINAL SECTION - MK01	F
C3.21	ROAD CROSS SECTIONS - MK1	F
C3.22	ROAD CROSS SECTIONS - STOREY AVENUE	F
C3.23	ROAD CROSS SECTIONS - STOREY AVENUE	F
C3.24	ROAD CROSS SECTIONS - STOREY AVENUE	F
C3.25	ROAD CROSS SECTIONS - STOREY AVENUE	F
C4.01	INTERSECTION PLAN - SHEET 1	F
C4.02	INTERSECTION PLAN - SHEET 2	F
C5.01	BULK EARTHWORKS CUT AND FILL DIAGRAM	F
C5.11	BULK EARTHWORKS SITE SECTIONS - SHEET 1	F
C6.01	SITE CATCHMENT PLAN	F
C6.02	STORMWATER STRUCTURE SCHEDULE	F
C6.11	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1	F
C6.12	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2	F
C6.13	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 3	F
C6.21	STORMWATER DRAINAGE CALCULATIONS - MINOR STORM (5YR ARI) SHEET 1	F
C6.22	STORMWATER DRAINAGE CALCULATIONS - MINOR STORM (5YR ARI) SHEET 2	F
C6.31	STORMWATER DRAINAGE CALCULATIONS - MAJOR STORM (100YR ARI) SHEET 1	F
C6.32	STORMWATER DRAINAGE CALCULATIONS - MAJOR STORM (100YR ARI) SHEET 2	F
C7.01	SOIL EROSION AND SEDIMENT CONTROL PLAN	F
C7.11	SOIL EROSION AND SEDIMENT CONTROL - NOTES AND DETAILS	F
C8.01	BASEIN DETAILS - SHEET 1	F
C8.02	BASEIN DETAILS - SHEET 2	F
C8.03	BASEIN DETAILS AND CALCULATIONS	F



LOCALITY PLAN  
NOT TO SCALE



SITE PLAN  
SCALE 1:1000

SECTION 138 APPROVAL

14/12/2022  
James Pickart



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REV	DESCRIPTION	DATE	BY	CHKD	APPD
1	REVISIONS				
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LOCALITY PLAN  
NOT TO SCALE

SCOTT HARRIS  
& ASSOCIATES  
10 KINGS ROAD  
JANUARY 2007

SHO

ACOR

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www.acor.com.au

SUBDIVISION WORKS  
CONSTRUCTION CERTIFICATE  
NO. 14112  
14/12/2022  
AS SHOWN  
WS190315  
C/UP

FOR CONSTRUCTION



**\$138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY**

## GENERAL NOTES

1. *What are the main types of water pollution?* Water pollution can be categorized into point source pollution (from a single identifiable source like a factory) and non-point source pollution (from diffuse sources like agricultural runoff).
2. *How does water pollution affect human health?* Contaminated water can lead to various health issues, including gastrointestinal diseases, skin conditions, and neurological problems, depending on the pollutants involved.
3. *What are the major sources of water pollution?* Major sources include industrial discharges, agricultural runoff (pesticides and fertilizers), urban sewage, and mining activities.
4. *How can water pollution be prevented?* Prevention strategies include implementing strict regulations on industrial discharges, promoting sustainable agricultural practices, improving urban wastewater treatment, and protecting natural water bodies.
5. *What are the long-term effects of water pollution on the environment?* Long-term effects include the degradation of aquatic ecosystems, loss of biodiversity, and the accumulation of toxic substances in the food chain.
6. *What role do governments play in water pollution control?* Governments are responsible for enacting and enforcing laws that regulate water quality and pollution, as well as funding research and monitoring programs.
7. *How can individuals contribute to reducing water pollution?* Individuals can contribute by properly disposing of waste, using eco-friendly products, conserving water, and supporting local environmental initiatives.
8. *What are some common water pollutants?* Common pollutants include heavy metals (like lead and mercury), pesticides, fertilizers, and organic waste.
9. *How is water pollution monitored?* Water pollution is monitored through regular sampling and testing of water bodies, using various analytical techniques to detect and measure pollutant levels.
10. *What are the economic impacts of water pollution?* Water pollution can have significant economic impacts, including increased costs for water treatment, loss of tourism revenue, and damage to agricultural and fishing industries.

## GENERAL NOTES

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## EARTHWORKS NOTES

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## CIVIL LEGEND PROPOSED

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DECLINING TO APPROVE

14/12/2022  
James McKelvey

**FOR CONSTRUCTION:**

<p>  <b>HENDRICKS WORKS</b>  <b>PHOTOS AND LEGEND</b> </p>	<p> <b>NAME</b>  <b>DATE</b> </p>
---	---------------------------------------

Program  
MULTI UNIT HOUSING  
DEVELOPMENT

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ACOR

SHA

SCOTT HARRIS  
& ASSOCIATES  
10 KOSCIUSKO RD  
BRINDABAY NSW 2627

LINCOLN PLACE  
UNIT 137 MACQUARIE STREET  
SYDNEY NSW 2002

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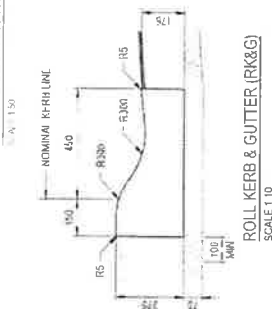
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ENSURE SMOOTH TRANSITION TO  
EXISTING GRADES AND LEVELS (TYP)

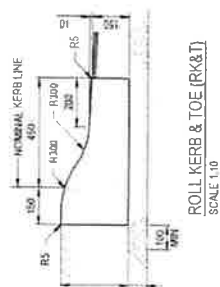
MINUTE MAT THICK (620-680 GSM THICKNESS)  
OR APPROVED EQUIVALENT



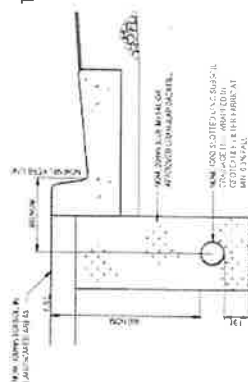
TYPICAL SECTION THROUGH PROPOSED ROAD WIDENING



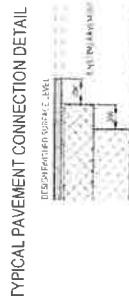
ROLL KERB &amp; GUTTER (RK&amp;G)



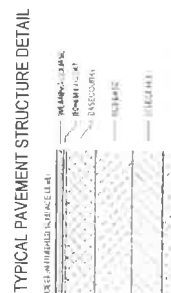
ROLL KERB &amp; TOE (RK&amp;T)



SUBSOIL BEHIND KERBS



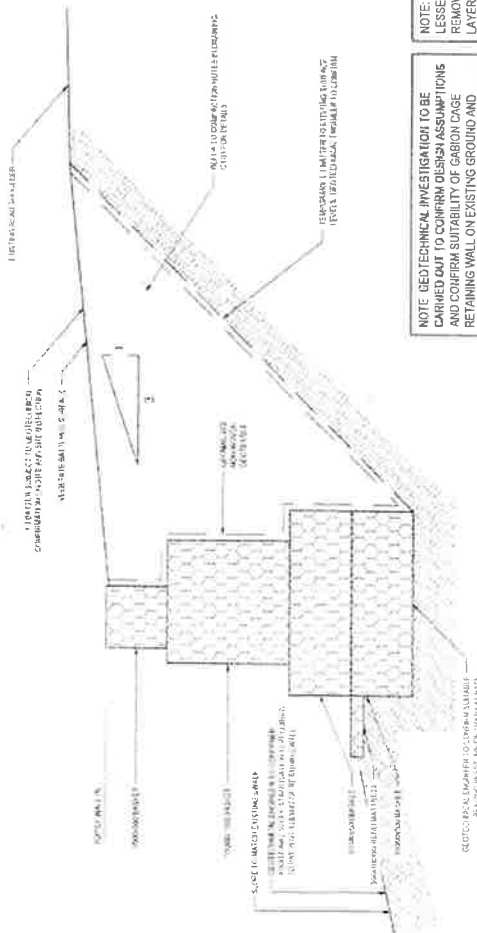
TYPICAL PAVEMENT CONNECTION DETAIL



TYPICAL PAVEMENT STRUCTURE DETAIL

WHERE SUBGRADE CBR < 3  
OF 150mm TO BE STABILIZED

NOTE  
PAVEMENT THICKNESSES ABOVE ARE SUBJECT TO GEOTECHNICAL TESTING  
AND CONFIRMATION BY GEOTECHNICAL CONSULTANT. ALL PAVEMENT  
DESIGN TO BE IN ACCORDANCE WITH COUNCIL REQUIREMENTS



CAGION RETAINING WALL - MAX 2.0m

NOTE: GEOTECHNICAL INVESTIGATION TO BE  
CARRIED OUT TO CONFIRM DESIGN ASSUMPTIONS  
AND CONFIRM SUITABILITY OF GABION CAGE  
AND RETAINING WALL ON EXISTING GROUND AND  
SLOPE. FINAL DESIGN OF WALL TO BE UPON RECEIPT  
OF GEOTECHNICAL REPORT AND ADVICE OF  
ENGINEER.

SELECT \* FROM APPR() VAL

2701/71/10-1

INTERMEDIATE RISER

CLEAN OUT (C/O)

S138 APPROVAL FOR:  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY

THE DIVISION OF BASKETBALL  
INCLUDES SPECIALTIES SUCH AS  
HITTING AND CATCHING  
AND LEARNING WITH CERTAINITY

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1997). The first group of researchers argued that the use of the term "gender" was problematic because it implied a binary distinction between male and female, which was not always the case in reality. They argued that the term "gender" was too narrow and did not capture the full range of social and cultural factors that influenced individual behavior. They argued that the term "gender" was too narrow and did not capture the full range of social and cultural factors that influenced individual behavior.

The following data were computed for the three cases with  $\alpha = 0.05$  and 10 samples for each sample size of 1000 subjects.

Case	Distribution	Type I Error		Power		Bias		SE	
		Obs	Exp	Obs	Exp	Obs	Exp	Obs	Exp
A	$N(0,1)$	0.047	0.05	0.80	0.80	0.000	0.000	0.010	0.010
B	$N(0,1)$	0.047	0.05	0.80	0.80	0.000	0.000	0.010	0.010
C	$N(0,1)$	0.047	0.05	0.80	0.80	0.000	0.000	0.010	0.010

INCOLN PLACE

OF 137 MACQUARIE STREET  
SYDNEY NSW 2000

SCOTT HARRIS  
& ASSOCIATES  
10 KOSCIUSKO RD  
ENJAYNE, N.J. 07033



ACOR CONSULTANTS •

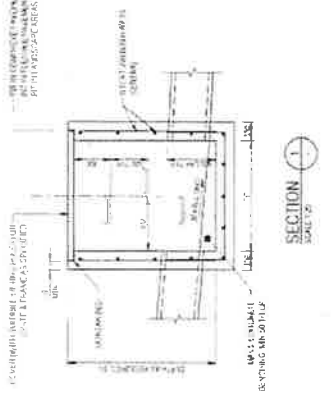
**ACOR Consultants Pty Ltd**  
Unit 10 Level 1 No 1 Macleay Place  
Baukhurst Hills NSW 2153  
T 451 2 8534 8711

PRINCES HIGHWAY  
100m NSW 2551

**FORM CONSTRUCTION**

[illegible]

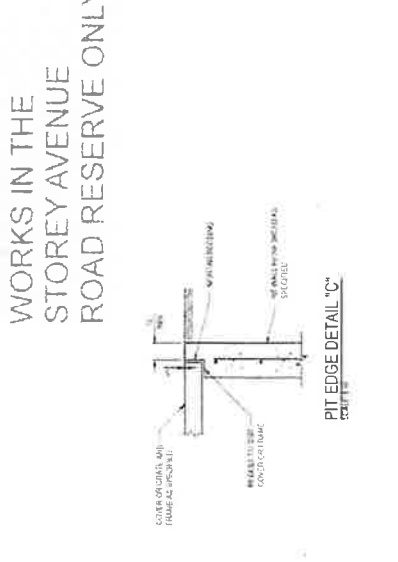
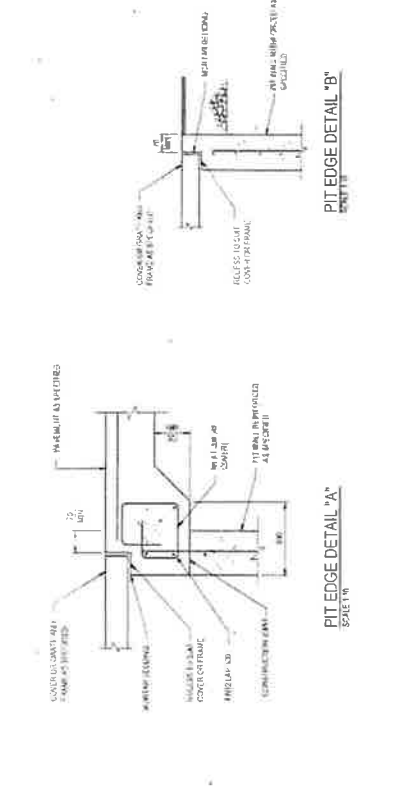
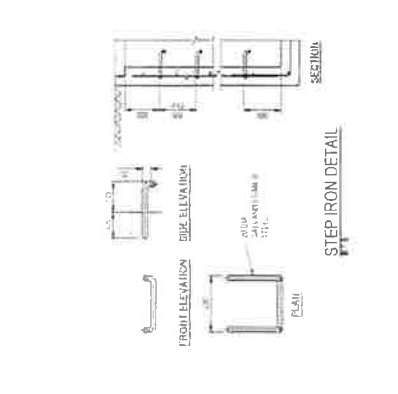
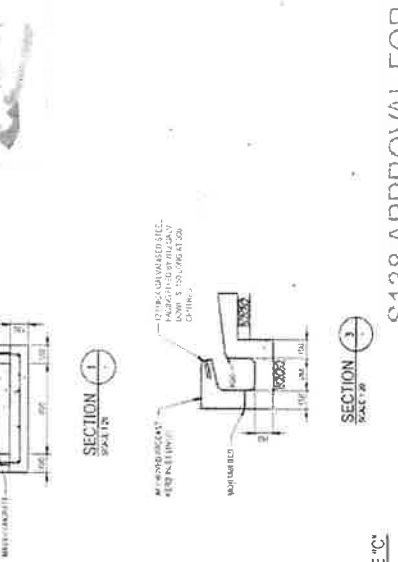
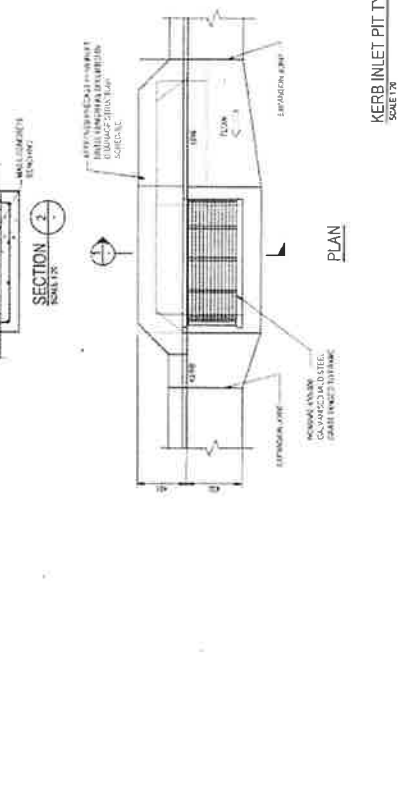
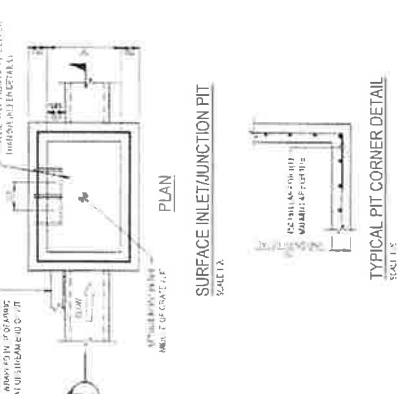
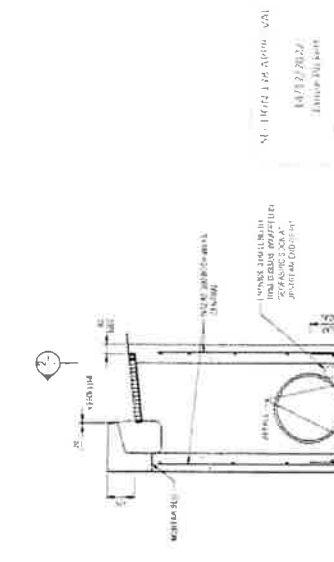
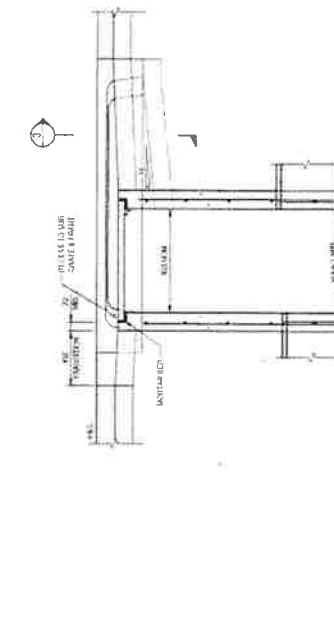
THE PROPOSED WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNMENT'S STANDARD SPECIFICATIONS FOR ROADWORKS. THE PROPOSED WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNMENT'S STANDARD SPECIFICATIONS FOR ROADWORKS.



**MINIMUM INTERNAL PIT DIMENSIONS**

Size	Width (mm)	Depth (mm)
1000	1000	1000
1200	1200	1200
1500	1500	1500
2000	2000	2000

**NOTE:**  
 1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.  
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.



**S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY**

**UNCLIN PLACE**  
 1000mm x 1000mm  
 1000mm x 1000mm  
 1000mm x 1000mm

**SCOTT HARRIS & ASSOCIATES**  
 1000mm x 1000mm  
 1000mm x 1000mm  
 1000mm x 1000mm

**ACOR CONSULTANTS**  
 1000mm x 1000mm  
 1000mm x 1000mm  
 1000mm x 1000mm

**ACOR CONSULTANTS Pty Ltd**  
 1000mm x 1000mm  
 1000mm x 1000mm  
 1000mm x 1000mm

**FOR CONSTRUCTION**

**WS190315**

# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY

**LEGEND**

- SITE BOUNDARY
- STAGING BOUNDARY
- INDICATIVE EASEMENT LOCATION
- PROPOSED EASEMENT TO DRAIN WATER FROM PUBLIC ROAD (3m WIDE)
- PROPOSED EASEMENT FOR SUPPORT / MAINTENANCE (7.4m WIDE)

NOTE  
FINAL EASEMENT WIDTHS AND LOCATIONS SUBJECT TO DRAFT AND DISPOSITED PLANS GENERATED BY REGISTERED SURVEYOR

SECTION 138 APPROVAL

14/11/2022

Janine Hickett

BEN

BOYO

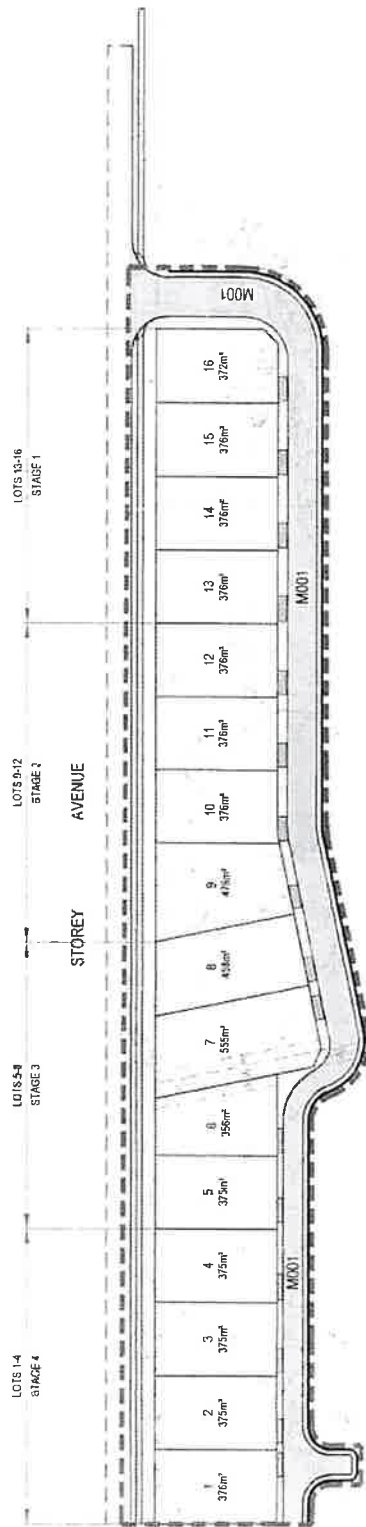
DRIVE

HIGHWAY

INCES

STREET

HOPKINS



PLAN

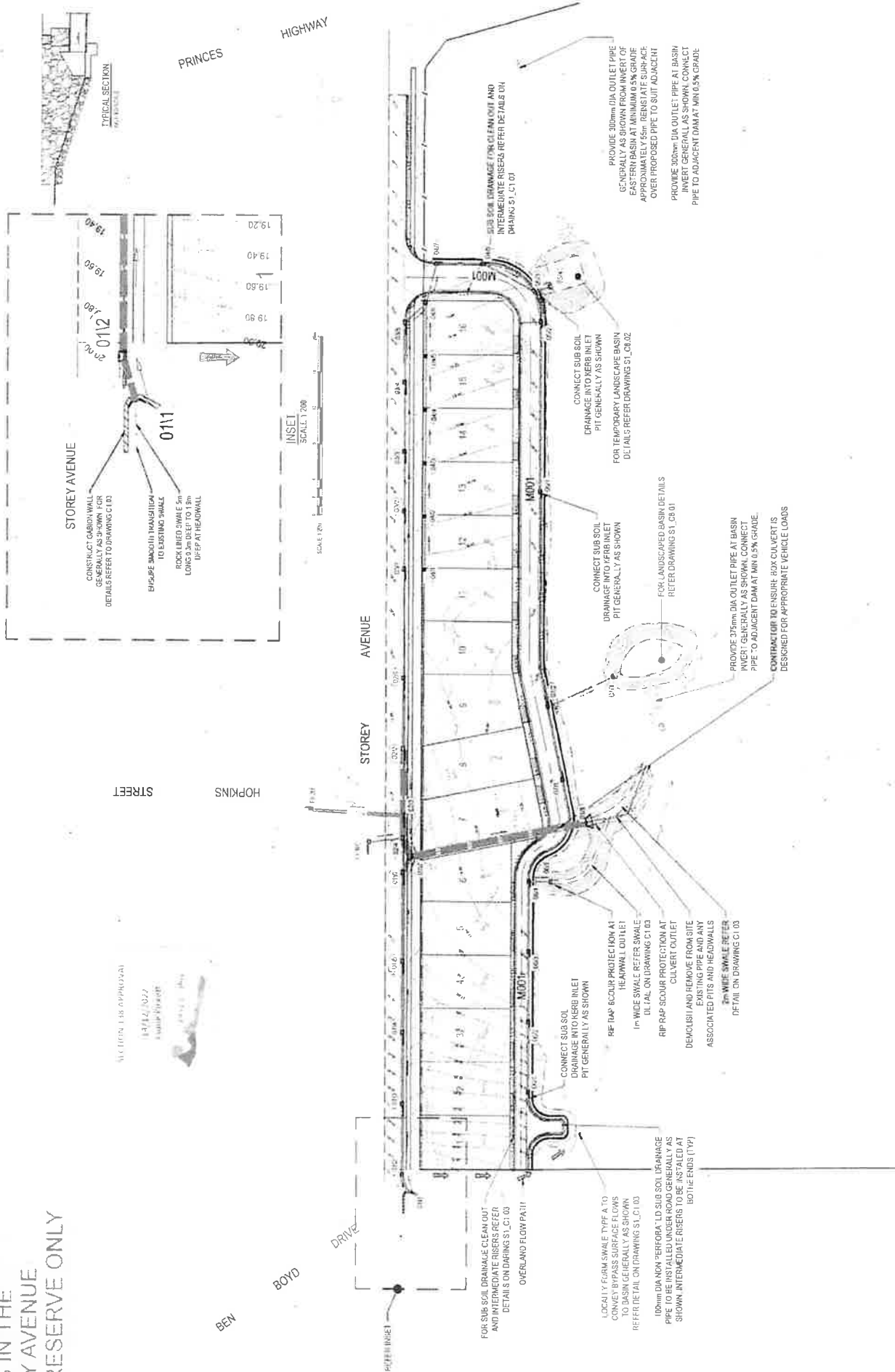
Scale 1:500

FOR CONSTRUCTION

Project Details		Client		Consultant	
S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY		ACOR CONSULTANTS PTY LTD		SCOTT HARRIS & ASSOCIATES	
Unit 10 Level 1, No. 1 Maynard Place, Bankstown NSW 2203		Unit 10 Level 1, No. 1 Maynard Place, Bankstown NSW 2203		Unit 10 Level 1, No. 1 Maynard Place, Bankstown NSW 2203	
T 02 9554 0311		T 02 9554 0311		T 02 9554 0311	
Project Manager: [Name]		Project Manager: [Name]		Project Manager: [Name]	
Project Engineer: [Name]		Project Engineer: [Name]		Project Engineer: [Name]	
Project Surveyor: [Name]		Project Surveyor: [Name]		Project Surveyor: [Name]	
Project Drafter: [Name]		Project Drafter: [Name]		Project Drafter: [Name]	
Project Checker: [Name]		Project Checker: [Name]		Project Checker: [Name]	
Project Approver: [Name]		Project Approver: [Name]		Project Approver: [Name]	
Project Date: [Date]		Project Date: [Date]		Project Date: [Date]	
Project Status: [Status]		Project Status: [Status]		Project Status: [Status]	
Project Version: [Version]		Project Version: [Version]		Project Version: [Version]	
Project Reference: [Reference]		Project Reference: [Reference]		Project Reference: [Reference]	
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Project Description: [Description]		Project Description: [Description]		Project Description: [Description]	
Project Notes: [Notes]		Project Notes: [Notes]		Project Notes: [Notes]	
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Project Conclusion: [Conclusion]		Project Conclusion: [Conclusion]		Project Conclusion: [Conclusion]	



# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY



PLAN

NOT TO SCALE



LINCOLN PLACE  
CP 137 MACQUARIE STREET  
SYDNEY NSW 2000

SCOTT HARRIS & ASSOCIATES  
10 KECHEURUPH  
RODMILL NSW 2057

SHO

ACOR

**ACOR CONSULTANTS Pty Ltd**  
Unit 110, Level 1, No. 1 Market Place  
Sydney NSW 2000  
T: 61 2 9554 0311

**MULTI UNIT HOUSING DEVELOPMENT**  
PRINCES HIGHWAY  
EVEN N.W. 201

Project No.	WS138315
Client	WS138315
Design No.	WS138315
Scale	1:500
Date	12/11/18
Drawn By	WS138315
Checked By	WS138315
Approved By	WS138315









STOREY AVE CENTRELINÉ

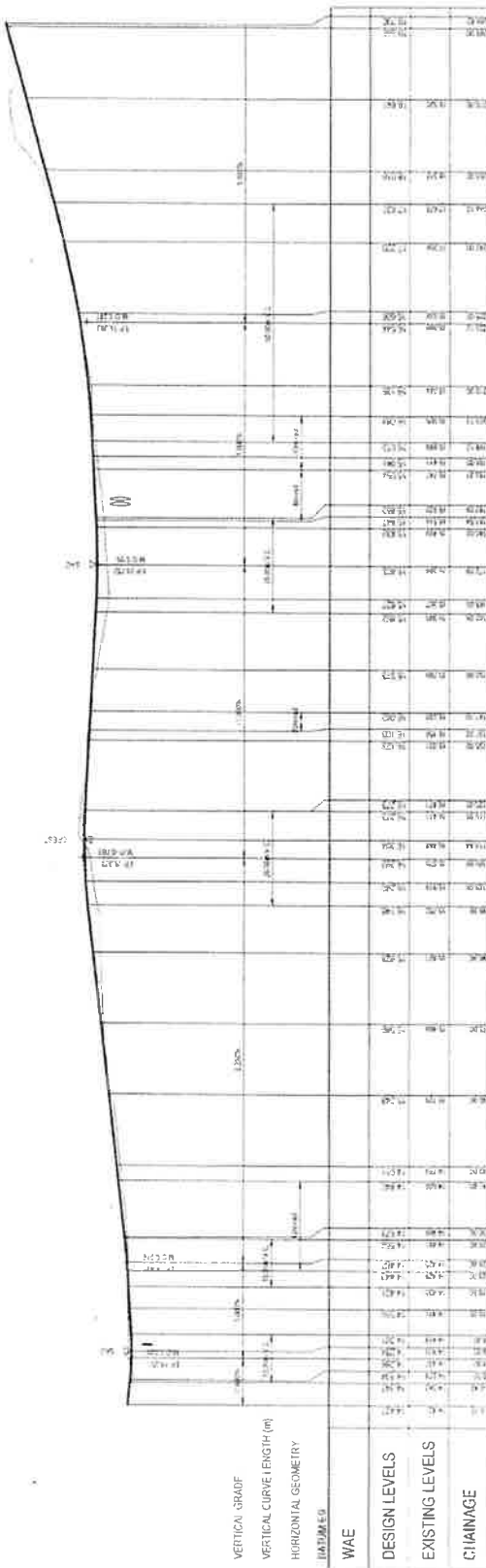


Figure 1 consists of two bar charts, labeled 'a' and 'b', showing the percentage of correct responses for 100 subjects. The y-axis represents the percentage of correct responses, ranging from 0 to 100. The x-axis represents the subject number, from 1 to 100. Chart 'a' is for the 'NOISE' condition, and chart 'b' is for the 'SILENCE' condition. Both charts show a similar pattern of performance, with a sharp drop in performance for subjects 1-10 and a gradual increase for subjects 11-100.

*Journal of Management Studies*, 19(1), 67-80.

[illegible]

INCOLN PLACE

137 MAGGIANE STREET  
NEW YORK, N.Y. 10003

COTT HARRIS

ASSOCIATES  
KOSCIUSKO RD  
DARBY, NJ 07003

1111

SHS

A

for

**FOR Consultants Pty Ltd**  
**MULTI UNIT HOUSING**  
 10 Level 1, No. 1 Midland Place

DEVELOPMENT

PRINCES HIGHWAY  
SHEWAN, MONTREAL

TEL: 514 255-3463  
FAX: 514 255-3463

Figure 2

471 PC	471 PC
471 PC	471 PC

**FOR CONSTRUCTION**

Figure 10 shows four elevation views of the bridge deck, labeled CH 45, CH 30, CH 15, and CH 7499. Each view displays the bridge deck profile with design levels (WAE), existing levels (DESIGN LEVELS), and off-set (OFF-SET). The views are labeled with stationing and elevation data.

**CH 45**

Station	WAE	DESIGN LEVELS	EXISTING LEVELS	OFF-SET
100+00	100.00	100.00	100.00	0.00
100+10	100.10	100.10	100.10	0.00
100+20	100.20	100.20	100.20	0.00
100+30	100.30	100.30	100.30	0.00
100+40	100.40	100.40	100.40	0.00
100+50	100.50	100.50	100.50	0.00
100+60	100.60	100.60	100.60	0.00
100+70	100.70	100.70	100.70	0.00
100+80	100.80	100.80	100.80	0.00
100+90	100.90	100.90	100.90	0.00
101+00	101.00	101.00	101.00	0.00

**CH 30**

Station	WAE	DESIGN LEVELS	EXISTING LEVELS	OFF-SET
100+00	100.00	100.00	100.00	0.00
100+10	100.10	100.10	100.10	0.00
100+20	100.20	100.20	100.20	0.00
100+30	100.30	100.30	100.30	0.00
100+40	100.40	100.40	100.40	0.00
100+50	100.50	100.50	100.50	0.00
100+60	100.60	100.60	100.60	0.00
100+70	100.70	100.70	100.70	0.00
100+80	100.80	100.80	100.80	0.00
100+90	100.90	100.90	100.90	0.00
101+00	101.00	101.00	101.00	0.00

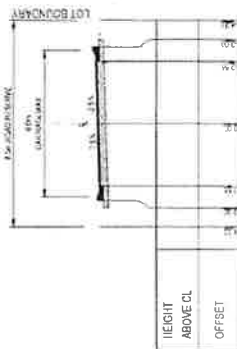
**CH 15**

Station	WAE	DESIGN LEVELS	EXISTING LEVELS	OFF-SET
100+00	100.00	100.00	100.00	0.00
100+10	100.10	100.10	100.10	0.00
100+20	100.20	100.20	100.20	0.00
100+30	100.30	100.30	100.30	0.00
100+40	100.40	100.40	100.40	0.00
100+50	100.50	100.50	100.50	0.00
100+60	100.60	100.60	100.60	0.00
100+70	100.70	100.70	100.70	0.00
100+80	100.80	100.80	100.80	0.00
100+90	100.90	100.90	100.90	0.00
101+00	101.00	101.00	101.00	0.00

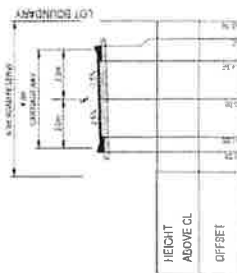
**CH 7499**

Station	WAE	DESIGN LEVELS	EXISTING LEVELS	OFF-SET
100+00	100.00	100.00	100.00	0.00
100+10	100.10	100.10	100.10	0.00
100+20	100.20	100.20	100.20	0.00
100+30	100.30	100.30	100.30	0.00
100+40	100.40	100.40	100.40	0.00
100+50	100.50	100.50	100.50	0.00
100+60	100.60	100.60	100.60	0.00
100+70	100.70	100.70	100.70	0.00
100+80	100.80	100.80	100.80	0.00
100+90	100.90	100.90	100.90	0.00
101+00	101.00	101.00	101.00	0.00

SCALE: VERTICAL 1"=100'  
HORIZONTAL 1"=100'



TYPICAL CROSS SECTION - TYPE 1



TYPICAL CROSS SECTION - TYPE 2  
M001 CH-195 00-CH285.00  
NOT TO SCALE

### CONSTRUCTION

[illegible]

**MULTI UNIT HOUSING  
DEVELOPMENT**

**ACOR Consultants Pty Ltd**  
Unit 10, Level 1, No.1 Mailand Place  
Baulkham Hills NSW 2153  
T +61 2 9634 631

AC OR



**Scott Harris  
SCOTT HARRIS  
& ASSOCIATES**  
10 MOSCOWSKO RD  
INGWEN, NY 14456

LINCOLN PLACE  
OFF 157 MACQUARIE STREET  
SYDNEY NSW 2000

[illegible]

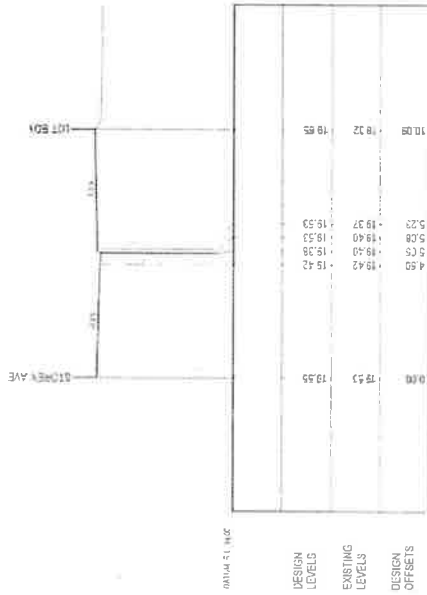
Parameter	Value
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[illegible]

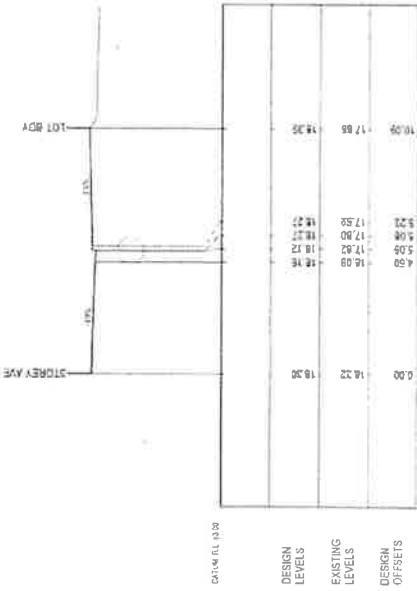
From the Department of Psychiatry, University of California, San Francisco, CA.

[illegible][illegible]

# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY

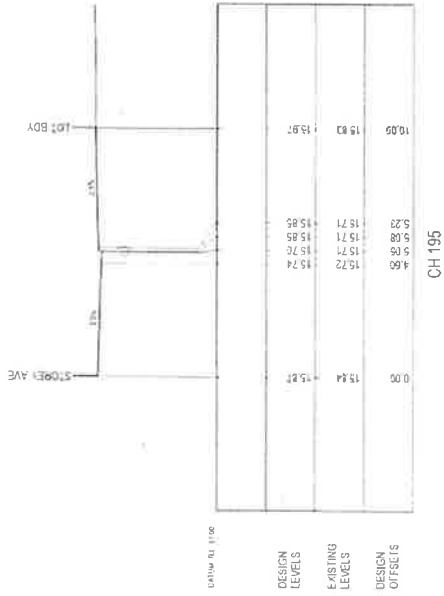


CH 15

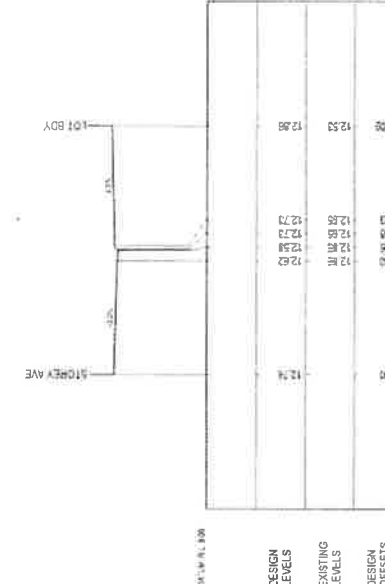
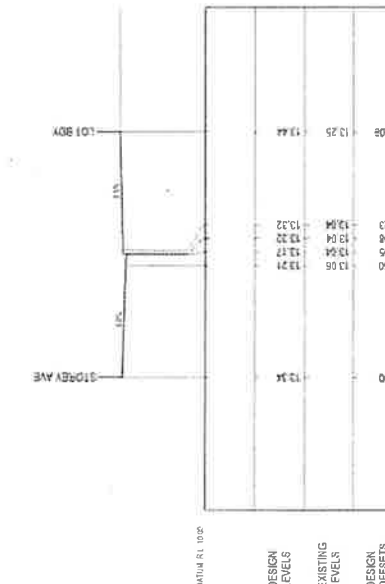
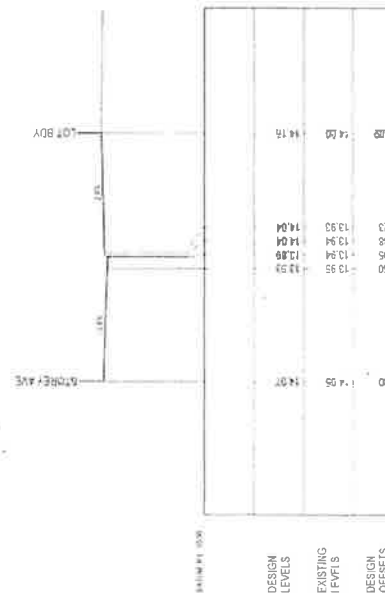
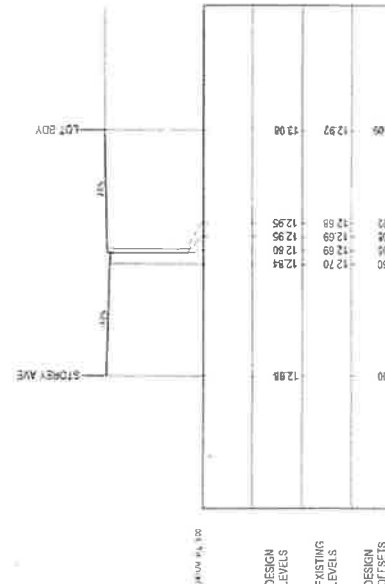
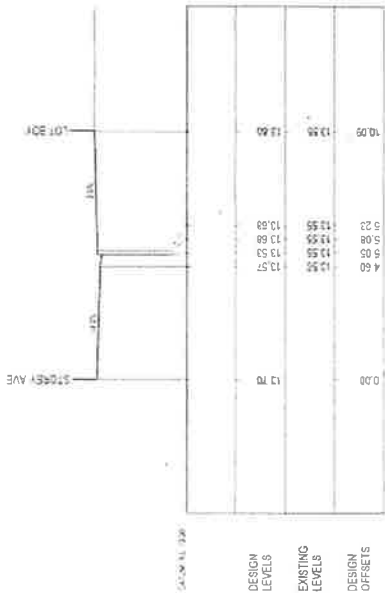


[illegible]

# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY



# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY



SECTION 138 APPROVAL  
14/12/2022  
James Pickell

SCALE: 1:100  
DATE: 14/12/2022

THESE PLANS ARE THE PROPERTY OF THE ENGINEER AND ARE NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

NO.	REVISION	DATE	BY	CHECKED
1	ISSUED FOR TENDERS	14/12/2022	J.P.	J.P.
2	FOR CONSTRUCTION	14/12/2022	J.P.	J.P.

INCOIN PLACE  
68-137 MACQUARIE STREET  
SYDNEY NSW 2000

SCOTT HARRIS  
& ASSOCIATES  
10 KINGSCLIFF ROAD  
BRANDON NSW 2257

SHO

ACOR

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Dunstan House NSW 2153  
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MULTI UNIT HOUSING  
DEVELOPMENT  
PRINCIPAL ROAD  
EDM NSW 2601

SUBMISSION NO. 138  
ROAD CROSS SECTION  
STOREY AVENUE  
14/12/2022

FOR CONSTRUCTION  
WS190315  
1:100  
1:100  
1:100

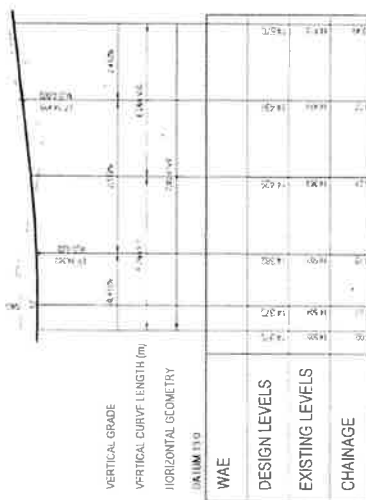
STOREY AVENUE



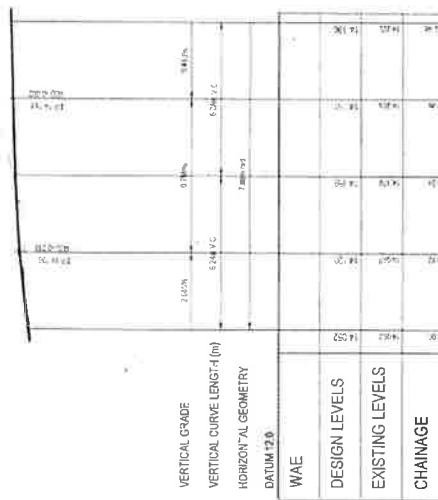
16

SCALE 1109

SECTION 128 APPROVAL



KR02



KR01



LINCOLN PLACE



**SCOTT HARRIS  
& ASSOCIATES**  
1033 CALLE DEL SOL  
JACOBINE, NEW YORK, NY 10014



**ACOR Consultants Pty Ltd**  
Unit 10 Level 1, No. 1 Maryland Place  
Dunelm Hills NSW 2153  
T +61 2 9634 6311

Sherry Lee  
MULTIMEDIA WORKS  
INTERSECTION IN AN

FOR CONSTRUCTION

[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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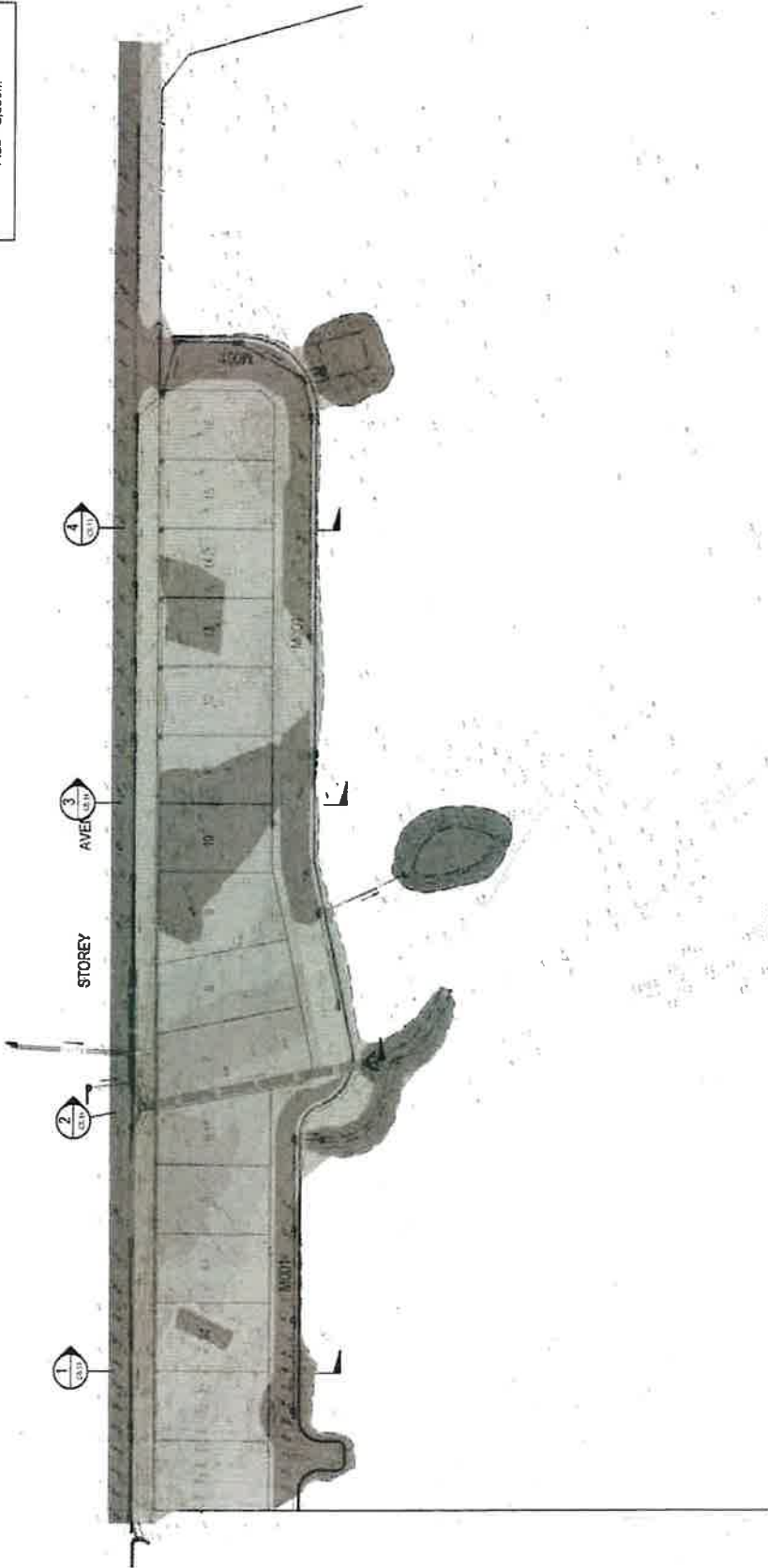
# NOTES:

1. THE QUANTITIES PROVIDED ARE FOR INFORMATION ONLY AND HAVE BEEN CALCULATED BETWEEN ASSUMED STRIPPED NATURAL SURFACE (ALLOWING FOR 100mm TOPSOIL) AND PROPOSED BULK EARTHWORKS SURFACE ALLOWING FOR ROAD SUBSTRUCTURE AND TOPSOIL REPLACEMENT
2. QUANTITIES ARE RAW FIGURES AND DO NOT INCLUDE COMPACTION AND SWELLING FACTORS
3. QUANTITIES DO NOT INCLUDE MATERIAL FROM SERVICE TRENCHES

## S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY

STREET HOPKINS

BOYD DRIVE



PLAN  
SCALE 1:500

CUT FILL LEGEND		
LOWER VALUE	UPPER VALUE	COLOR
-5.0m	to	-2.00m
-2.00m	to	-1.00m
-1.00m	to	-0.50m
-0.50m	to	-0.25m
-0.25m	to	0.00 m
0.00m	to	0.250m
0.250m	to	0.500m
0.500m	to	1.000m
1.000m	to	2.000m
2.000m	to	5.000m
CUT = 2,260m³ FILL = 2,350m³		

SECTION 138 APPROVAL  
14/12/2022  
Jamie Pickett

ACOR CONSULTANTS  
CONSULTANTS

SCOTT HARRIS & ASSOCIATES  
PO BOX 200  
JURONG NSW 2571

LINCOLN PLACE  
67-137 MACQUARIE STREET  
STOREY NSW 2600

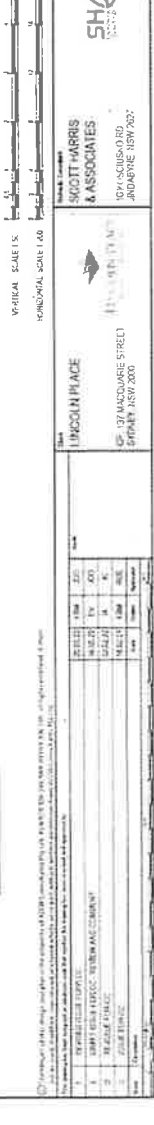
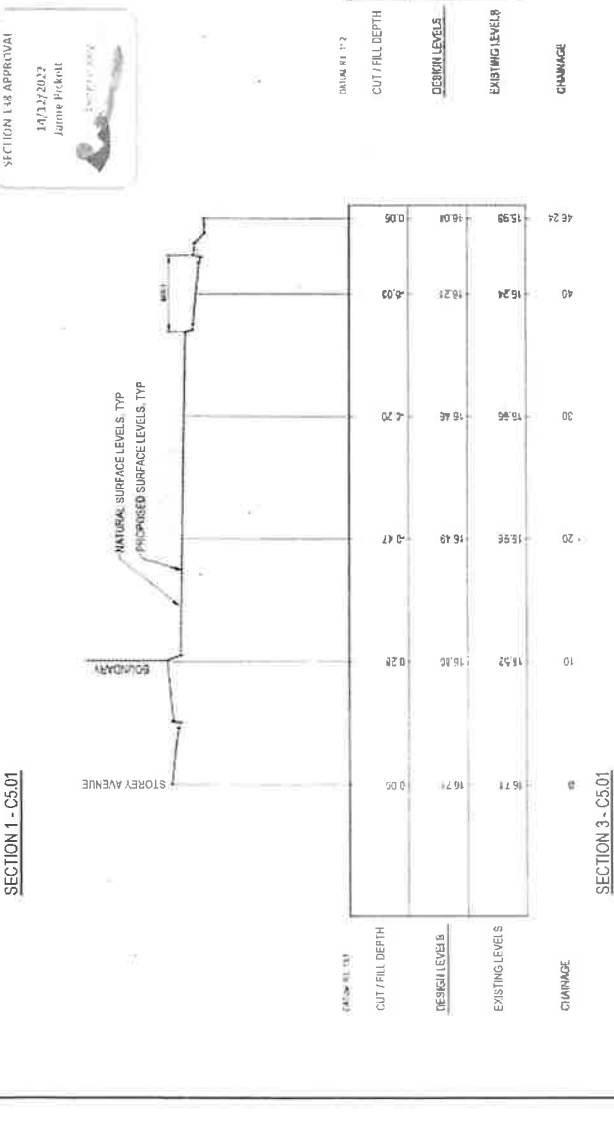
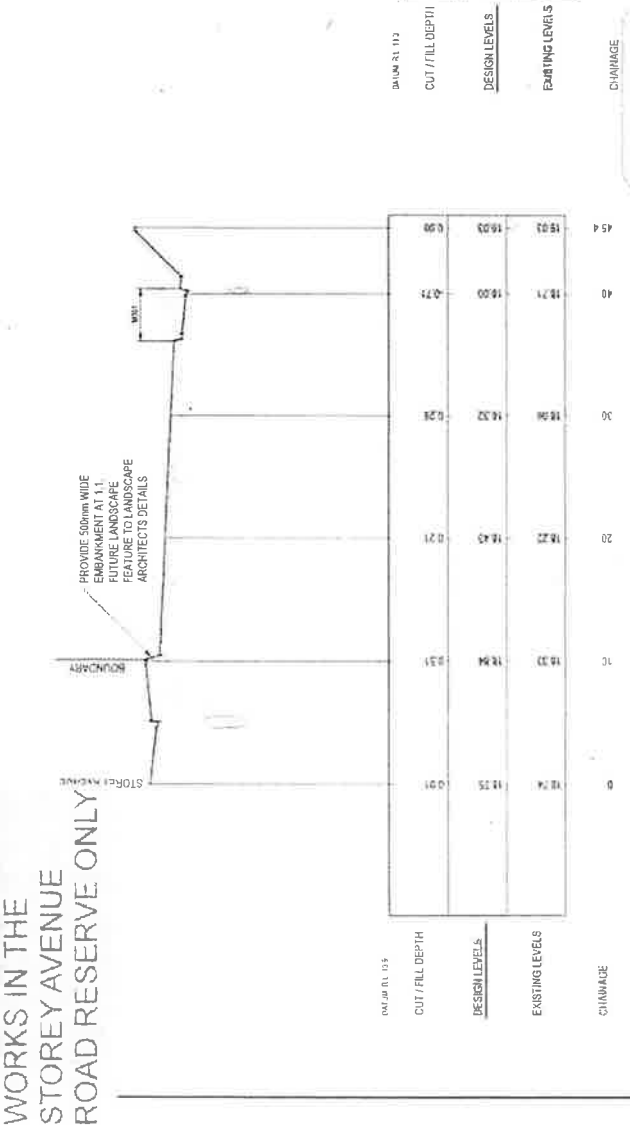
ACOR CONSULTANTS Pty Ltd  
Unit 10 Level 1, No 1 Macquarie Place  
Barrabarra NSW 2153  
T 461 2 9634 6311

MULTI UNIT HOUSING DEVELOPMENT  
PRINCES HIGHWAY  
EVEN NSW 261

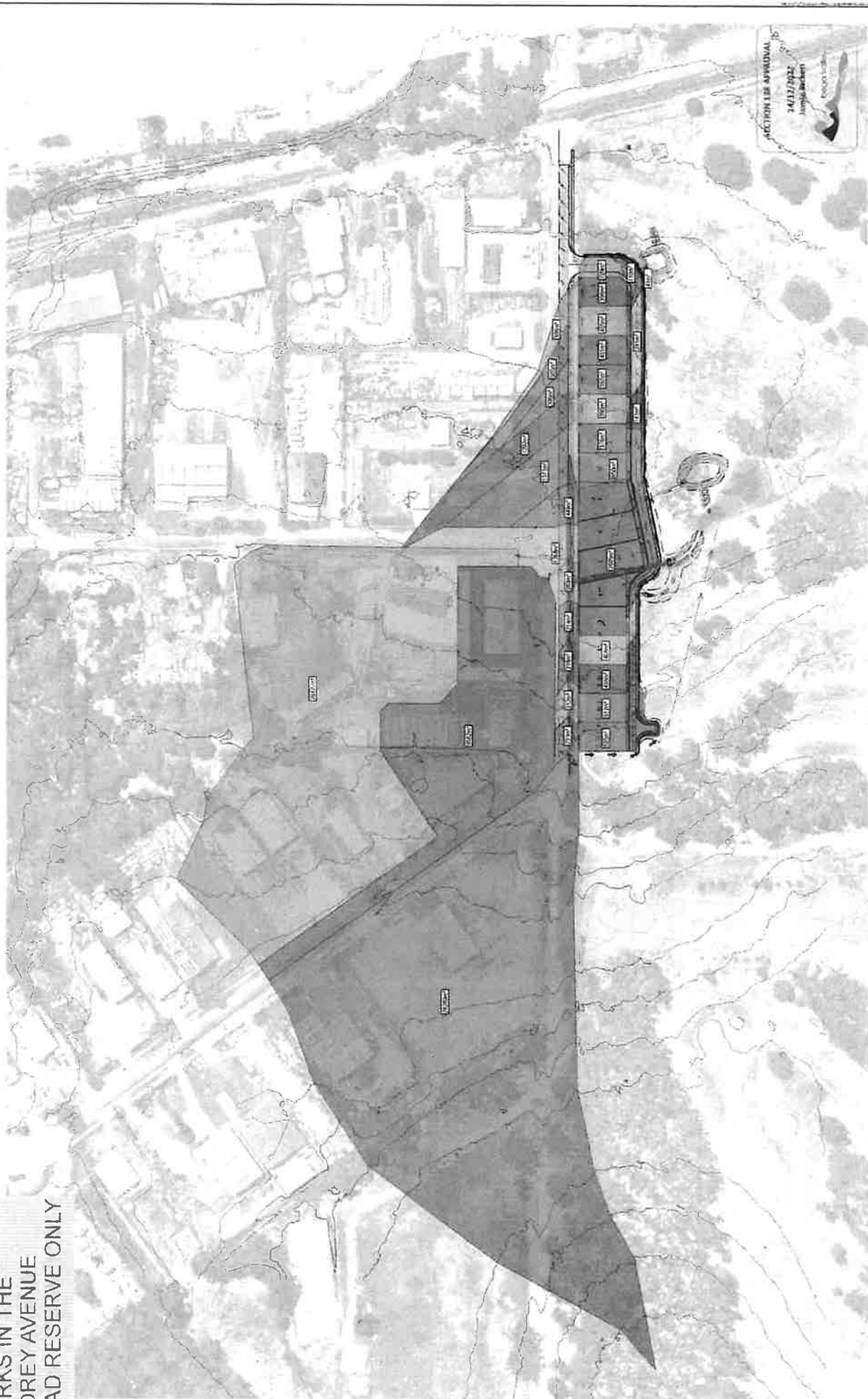
FOR CONSTRUCTION

Project Name	MULTI UNIT HOUSING DEVELOPMENT
Client	PRINCES HIGHWAY EVEN NSW 261
Project No	WS190315
Issue	1
Issue Date	14/12/2022
Issue By	JAMIE PICKETT
Issue For	SECTION 138 APPROVAL

— PROVIDE 500mm WIDE UNIMOUNTED AT 1.1.  
FUTURE LANDSCAPE FEATURE TO LANDSCAPE  
ARCHITECT'S DETAILS



S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY



PLAN

FOR CONSTRUCTION

**SUBMITTING AN INQUIRY TO  
SITE CATCHMENT PLAN**

MULTI UNIT HOUSING  
DEVELOPMENT

**ACOR Consultants Pty Ltd**  
 Suite 10, Level 1, No. 1 Vanden Plas  
 Building 101, Havelock 2153

AC OR

SHS

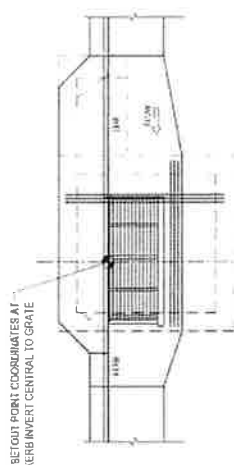
SCOTT LARRIS  
& ASSOCIATES  
13 KOSCIUSKO RD  
JULIAHART, N.Y. 12527

INCOLN PLACE  
ST. 137 MACQUARIE STREET  
SYDNEY NSW 2000

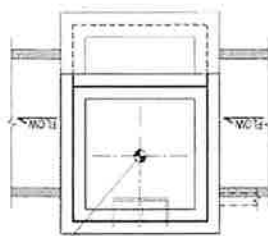
Category	Year	Score	Score	Score
1. Overall Score	2010	72.27	73.00	73.00
2. Overall Score	2011	72.27	73.00	73.00
3. Overall Score	2012	72.27	73.00	73.00
4. Overall Score	2013	72.27	73.00	73.00
5. Overall Score	2014	72.27	73.00	73.00
6. Overall Score	2015	72.27	73.00	73.00
7. Overall Score	2016	72.27	73.00	73.00
8. Overall Score	2017	72.27	73.00	73.00
9. Overall Score	2018	72.27	73.00	73.00
10. Overall Score	2019	72.27	73.00	73.00
11. Overall Score	2020	72.27	73.00	73.00
12. Overall Score	2021	72.27	73.00	73.00
13. Overall Score	2022	72.27	73.00	73.00
14. Overall Score	2023	72.27	73.00	73.00
15. Overall Score	2024	72.27	73.00	73.00
16. Overall Score	2025	72.27	73.00	73.00
17. Overall Score	2026	72.27	73.00	73.00
18. Overall Score	2027	72.27	73.00	73.00
19. Overall Score	2028	72.27	73.00	73.00
20. Overall Score	2029	72.27	73.00	73.00
21. Overall Score	2030	72.27	73.00	73.00
22. Overall Score	2031	72.27	73.00	73.00
23. Overall Score	2032	72.27	73.00	73.00
24. Overall Score	2033	72.27	73.00	73.00
25. Overall Score	2034	72.27	73.00	73.00
26. Overall Score	2035	72.27	73.00	73.00
27. Overall Score	2036	72.27	73.00	73.00
28. Overall Score	2037	72.27	73.00	73.00
29. Overall Score	2038	72.27	73.00	73.00
30. Overall Score	2039	72.27	73.00	73.00
31. Overall Score	2040	72.27	73.00	73.00
32. Overall Score	2041	72.27	73.00	73.00
33. Overall Score	2042	72.27	73.00	73.00
34. Overall Score	2043	72.27	73.00	73.00
35. Overall Score	2044	72.27	73.00	73.00
36. Overall Score	2045	72.27	73.00	73.00
37. Overall Score	2046	72.27	73.00	73.00
38. Overall Score	2047	72.27	73.00	73.00
39. Overall Score	2048	72.27	73.00	73.00
40. Overall Score	2049	72.27	73.00	73.00
41. Overall Score	2050	72.27	73.00	73.00
42. Overall Score	2051	72.27	73.00	73.00
43. Overall Score	2052	72.27	73.00	73.00
44. Overall Score	2053	72.27	73.00	73.00
45. Overall Score	2054	72.27	73.00	73.00
46. Overall Score	2055	72.27	73.00	73.00
47. Overall Score	2056	72.27	73.00	73.00
48. Overall Score	2057	72.27	73.00	73.00
49. Overall Score	2058	72.27	73.00	73.00
50. Overall Score	2059	72.27	73.00	73.00
51. Overall Score	2060	72.27	73.00	73.00
52. Overall Score	2061	72.27	73.00	73.00
53. Overall Score	2062	72.27	73.00	73.00
54. Overall Score	2063	72.27	73.00	73.00
55. Overall Score	2064	72.27	73.00	73.00
56. Overall Score	2065	72.27	73.00	73.00
57. Overall Score	2066	72.27	73.00	73.00
58. Overall Score	2067	72.27	73.00	73.00
59. Overall Score	2068	72.27	73.00	73.00
60. Overall Score	2069	72.27	73.00	73.00
61. Overall Score	2070	72.27	73.00	73.00
62. Overall Score	2071	72.27	73.00	73.00
63. Overall Score	2072	72.27	73.00	73.00
64. Overall Score	2073	72.27	73.00	73.00
65. Overall Score	2074	72.27	73.00	73.00
66. Overall Score	2075	72.27	73.00	73.00
67. Overall Score	2076	72.27	73.00	73.00

**Mathematical Sciences**

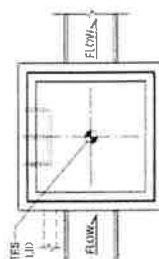
S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY

[illegible]

KARB INLET PIT



SETOUT POINT COORDINATES  
IN THE MIDDLE OF GRATE / LID



SETOUT POINT COORDINATES  
IN THE MIDDLE OF GRATE/UID

HAUNCHED SURFACE INLET / JUNCTION PIT

SURFACE INLET / JUNCTION PIT



END CONSTRUCTION

**MULTI UNIT HOUSING  
DEVELOPMENT**

PRINCES HIGHWAY  
EDEN NSW 2551

**ACOR Consultants Pty Ltd**  
Unit 10, Level 1, No. 1 Markland Place  
Baulkham Hills NSW 2153  
T +61 2 9634 6311

AC OR

SHS

SCOTT HARRIS  
& ASSOCIATES  
10 KOSCIUSKO RD  
MIDVALE, NY 10547

LINCOLN PLACE  
OF SYMINGTON, IN  
SOUTH CAROLINA 29576-3000

Time	Temp	Pressure	Flow	Concentration
10:00	25	1.0	1.0	1.0
10:15	25	1.0	1.0	1.0
10:30	25	1.0	1.0	1.0
10:45	25	1.0	1.0	1.0
11:00	25	1.0	1.0	1.0
11:15	25	1.0	1.0	1.0
11:30	25	1.0	1.0	1.0
11:45	25	1.0	1.0	1.0
12:00	25	1.0	1.0	1.0
12:15	25	1.0	1.0	1.0
12:30	25	1.0	1.0	1.0
12:45	25	1.0	1.0	1.0
13:00	25	1.0	1.0	1.0
13:15	25	1.0	1.0	1.0
13:30	25	1.0	1.0	1.0
13:45	25	1.0	1.0	1.0
14:00	25	1.0	1.0	1.0
14:15	25	1.0	1.0	1.0
14:30	25	1.0	1.0	1.0
14:45	25	1.0	1.0	1.0
15:00	25	1.0	1.0	1.0
15:15	25	1.0	1.0	1.0
15:30	25	1.0	1.0	1.0
15:45	25	1.0	1.0	1.0
16:00	25	1.0	1.0	1.0
16:15	25	1.0	1.0	1.0
16:30	25	1.0	1.0	1.0
16:45	25	1.0	1.0	1.0
17:00	25	1.0	1.0	1.0
17:15	25	1.0	1.0	1.0
17:30	25	1.0	1.0	1.0
17:45	25	1.0	1.0	1.0
18:00	25	1.0	1.0	1.0
18:15	25	1.0	1.0	1.0
18:30	25	1.0	1.0	1.0
18:45	25	1.0	1.0	1.0
19:00	25	1.0	1.0	1.0
19:15	25	1.0	1.0	1.0
19:30	25	1.0	1.0	1.0
19:45	25	1.0	1.0	1.0
20:00	25	1.0	1.0	1.0
20:15	25	1.0	1.0	1.0
20:30	25	1.0	1.0	1.0
20:45	25	1.0	1.0	1.0
21:00	25	1.0	1.0	1.0
21:15	25	1.0	1.0	1.0
21:30	25	1.0	1.0	1.0
21:45	25	1.0	1.0	1.0
22:00	25	1.0	1.0	1.0
22:15	25	1.0	1.0	1.0
22:30	25	1.0	1.0	1.0
22:45	25	1.0	1.0	1.0
23:00	25	1.0	1.0	1.0
23:15	25	1.0	1.0	1.0
23:30	25	1.0	1.0	1.0
23:45	25	1.0	1.0	1.0
24:00	25	1.0	1.0	1.0

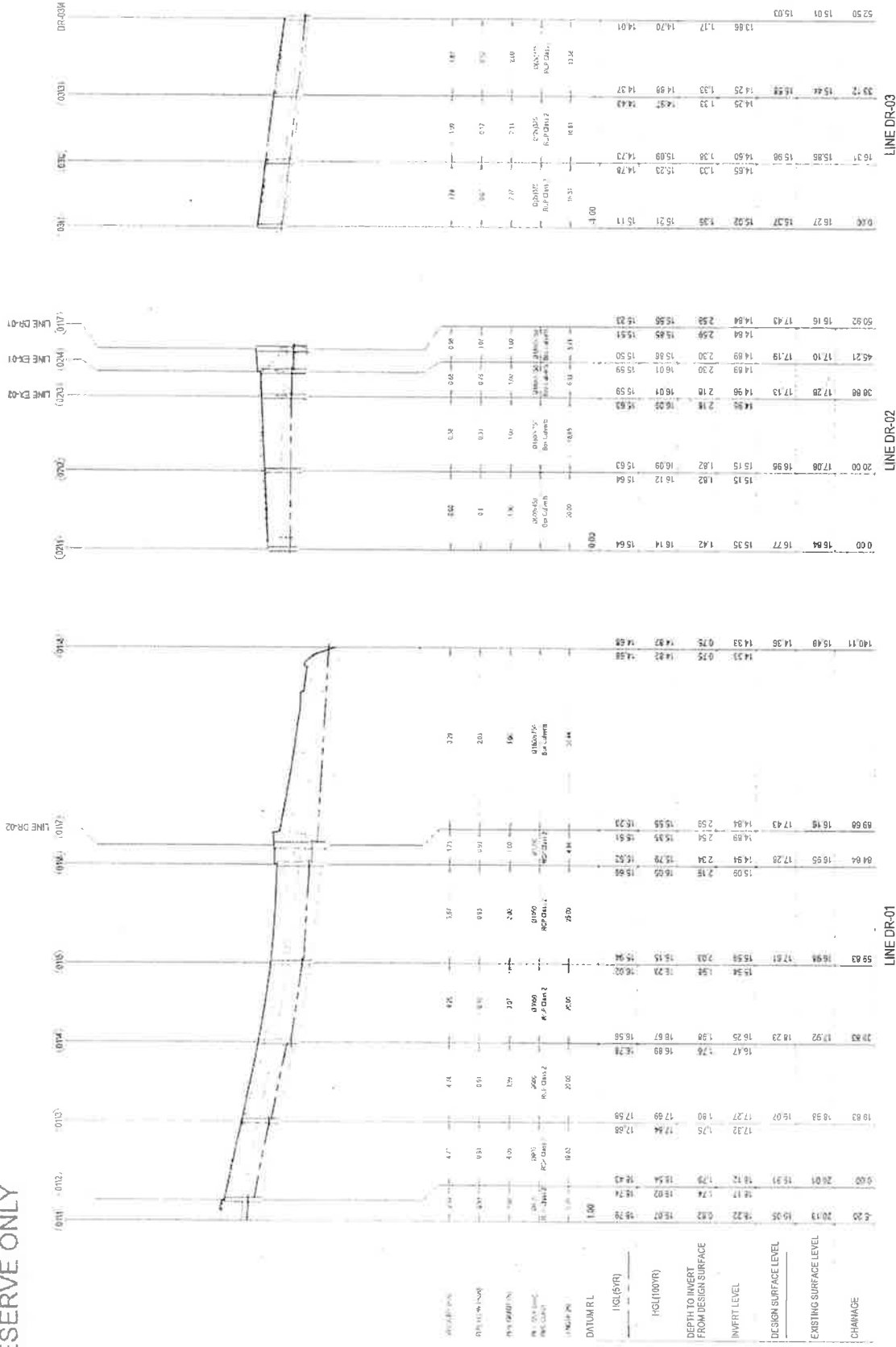
Journal of Management Education 34(1)

...and the ...

**FILE**

[illegible]

# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY



SECTION 138 APPROVAL  
14/12/2022  
James Phipps

PLAN

Scale: 1:100  
North Arrow: [Symbol]  
Date: 14/12/2022  
Drawn by: [Name]  
Checked by: [Name]  
Approved by: [Name]

FOR CONSTRUCTION

SCOTT HARRIS & ASSOCIATES

18 KOSCIUSKO RD  
JUNDAH NSW 4007

ACOR CONSULTANTS

ACOR CONSULTANTS PTY LTD  
Unit 10 Level 1, No 1 Midland Place  
Bathurst Hills NSW 2553  
T +61 2 9524 6311

SHO

SHO CONSULTANTS

LINCOLN PLACE

65-127 MACQUARIE STREET  
SYDNEY NSW 2000

MULTI UNIT HOUSING DEVELOPMENT

PRINCE GEORGE  
UNIT 10A 7501

WS190315

14/12/2022

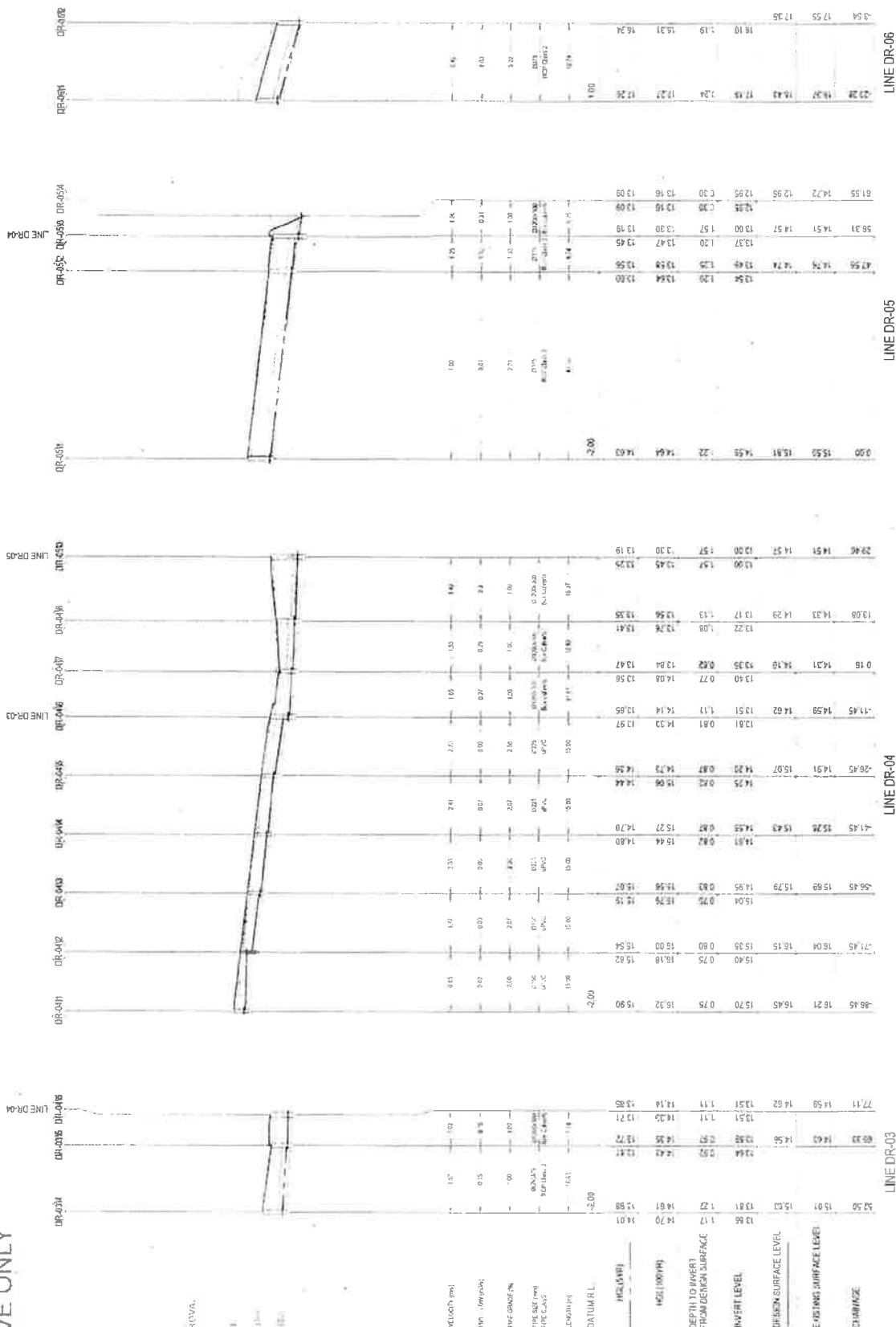
1:100

# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY

SECTION 138 APPROVAL

18/12/2027  
Laurie Parkhill

1:100







LOCATION AND LAND-USE

INLET DESIGN

PIPE SYSTEM DESIGN

PIPE RESULTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Design ARI	Pt Name	Sub- Catchment Area (ha)	Land- Use	Percent- age	Total Time (minutes)	Peak Sub- Catchment Flowrate (m³/s)	Origin of Approach Flows	Flowrate (m³/s)	Flow Width (m)	Depth x Velocity (m²/s)	Approach Flow (m³/s)	Total Flow (m³/s)	Flow Width (m)	Flow Velocity (m/s)	Peak Flow (m³/s)	Reach Length (m)	Pipe Slope (m)	Pipe Diameter (mm)	US Pipe Invert Level (m)	US Pipe Invert Level (m)	D/S Pipe Level (m)	U/S Pipe Level (m)	H/S Level (m)	D/S Pipe Level (m)	U/S Level (m)	H/S Level (m)	Flow Velocity (m/s)	Pressure Change Coef	Water Elevation (m)	Surface Level (m)	Free- board m		
5 Year	DR-021	0.0449	Paved	90	5	0.019	DR-021	0.09	3.1	0.07	0.109	0	0	0	0.107	23	1	600 x 0.45	15.347	15.147	15.643	15.643	15.643	15.643	15.643	15.643	15.643	0.38	2	15.67	16.773	0.9	
5 Year	DR-022	6.1344	Paved	90	5	0.058	DR-023	0.263	4.65	0.21	0.321	0.321	0	0	0.33	18.916	1	800 x 0.75	15.147	14.959	15.631	15.631	15.631	15.631	15.631	15.631	0.38	2	15.64	16.864	1.32		
5 Year	DR-023	0.0205	Paved	90	5	0.009	DR-024	0.032	4.63	0.03	0.612	0.612	0.263	4.65	0.21	0.776	6.333	0.99	500 x 0.75	14.950	14.855	15.589	15.589	15.589	15.589	15.589	0.68	2	15.63	17.193	1.5		
5 Year	DR-024		Grassland	10	10		EX-011	0.200	3.21	0.21	0.209	0.032	4.63	0.03	1.068	5.709	1	800 x 0.75	14.895	14.838	15.502	15.502	15.502	15.502	15.502	15.502	0.98	2	15.59	17.19	1.6		
5 Year	DR-017		Paved								0				2.028	50.439	1	800 x 0.75	14.838	14.334	15.228	15.228	15.228	15.228	15.228	15.228	2.28	2	15.31	17.492	1.98		
5 Year	DR-031	0.1373	Paved	90	5	0.059	DR-021	0	0	0	0.059	0	0	0	0.066	16.311	2.27	375	15.024	14.653	15.108	14.783	14.783	14.783	14.783	14.783	1.78	3.4	15.16	16.375	1.22		
5 Year	DR-032	0.1281	Paved	90	5	0.055	DR-031	0	0	0	0.055	0	0	0	0.12	16.805	2.11	375	14.603	14.248	14.726	14.428	14.428	14.428	14.428	14.428	1.9	1.5	14.78	15.983	1.2		
5 Year	DR-033	0.0303	Paved	90	5	0.013	DR-032	0	0	0	0.013	0	0	0	0.124	19.383	2	375	14.245	13.858	14.373	14.011	14.011	14.011	14.011	14.011	1.87	0.8	14.43	15.578	1.15		
5 Year	DR-034	0.0552	Paved	90	5	0.024	DR-033	0	0	0	0.024	0	0	0	0.148	16.829	1	375	13.808	13.639	13.978	13.809	13.809	13.809	13.809	13.809	1.52	0.8	14.01	15.03	1.02		
5 Year	DR-035	0.0302	Paved	90	5	0.013	DR-034	0	0	0	0.013	0	0	0	0.159	7.779	0.99	200 x 0.38	13.569	13.512	13.718	13.711	13.711	13.711	13.711	13.711	1.02	1.3	13.75	14.555	0.8		
5 Year	DR-046	0.0356	Paved	90	5	0.017	DR-045	0	0	0	0.017	0	0	0	0.267	11.614	1.01	200 x 0.38	13.512	13.395	13.647	13.557	13.557	13.557	13.557	13.557	1.65	1.6	13.71	14.618	0.91		
5 Year	DR-047	0.0709	Paved	90	10	0.03	DR-046	0	0	0	0.03	0	0	0	0.387	12.923	1	200 x 0.38	13.345	13.216	13.474	13.412	13.412	13.412	13.412	13.412	1.85	1.8	13.56	14.164	0.61		
5 Year	DR-048	0.0108	Paved	90	5	0.005	DR-053	0	0	0	0.005	0	0	0	0.303	16.373	1	200 x 0.38	13.166	13.002	13.345	13.246	13.246	13.246	13.246	13.246	1.42	1.5	13.41	14.294	0.88		
5 Year	DR-053	0.0041	Paved	90	5	0.002	DR-052	0	0	0	0.002	0	0	0	0.311	5.247	0.98	200 x 0.38	13.002	12.85	13.189	13.088	13.088	13.088	13.088	13.088	1.9	1	13.25	14.509	1.37		
5 Year	DR-041	0.0365	Paved	90	5	0.016					0.016	0	0	0	0.016	15	1.98	150	15.703	15.404	15.904	15.819	15.819	15.819	15.819	15.819	0.85	1.8	15.97	16.453	0.48		
5 Year	DR-042	0.039	Paved	90	5	0.017	DR-041	0	0	0	0.017	0	0	0	0.032	15	2.07	150	15.354	15.043	15.541	15.191	15.191	15.191	15.191	15.191	1.77	1.8	15.82	16.148	0.33		
5 Year	DR-043	0.0397	Paved	90	5	0.017	DR-042	0	0	0	0.017	0	0	0	0.052	15	2.31	225	14.954	14.608	15.073	14.801	14.801	14.801	14.801	14.801	2.33	2.1	15.15	15.788	0.64		
5 Year	DR-044	0.0402	Paved	90	5	0.017	DR-043	0	0	0	0.017	0	0	0	0.068	15	2.07	225	14.558	14.347	14.7	14.444	14.444	14.444	14.444	14.444	2.41	1	14.8	15.438	0.63		
5 Year	DR-045	0.0405	Paved	90	5	0.017	DR-044	0	0	0	0.017	0	0	0	0.087	15	2.38	225	14.197	13.91	14.355	13.989	13.989	13.989	13.989	13.989	2.73	1	14.44	15.067	0.62		
5 Year	DR-051	0.0139	Paved	90	5	0.006					0.006	0	0	0	0.097	47.581	2.21	375	14.587	13.537	14.629	13.589	13.589	13.589	13.589	13.589	1	5.9	14.65	15.807	1.16		
5 Year	DR-052	0.0291	Paved	90	5	0.012	DR-051	0	0	0	0.012	0	0	0	0.017	8.748	1.33	375	13.487	13.371	13.556	13.445	13.445	13.445	13.445	13.445	1.25	5.9	13.6	14.737	1.14		
5 Year	DR-061	0.0595	Paved	90	5	0.025					0.025	0	0	0	0.031	19.741	5.22	375	17.153	16.162	17.257	16.237	16.237	16.237	16.237	16.237	2.42	5.9	17.34	18.432	1.09		
5 Year	DR-062	0.0512	Paved	90	5	0.022	DR-061	0	0	0	0.022	0	0	0	0.052	19.741	3.2	375	16.016	15.445	16.175	15.605	15.605	15.605	15.605	15.605	2.21	1.9	16.24	17.355	1.12		
5 Year	DR-063	0.0496	Paved	90	5	0.021	DR-062	0	0	0	0.021	0	0	0	0.07	19.741	1	375	15.395	15.197	15.56	15.405	15.405	15.405	15.405	15.405	1.5	1.5	15.61	16.511	0.9		
5 Year	DR-064	0.0468	Paved	90	5	0.02	DR-063	0	0	0	0.02	0	0	0	0.087	5.721	1	375	15.147	15.09	15.333	15.277	15.277	15.277	15.277	15.277	1.58	1.8	15.41	16.02	0.61		
5 Year	DR-071	0.2005	Paved	90	5	0.115	DR-064	0	0	0	0.115	0	0	0	0.105	20.501	1	375	14.489	14.28	14.7	14.522	14.522	14.522	14.522	14.522	1.7	3.8	14.82	15.698	0.88		
5 Year	DR-072	0.065	Paved	90	5	0.028					0.028	0	0	0	0.135	22.823	2	375	14.166	13.73	14.302	13.928	13.928	13.928	13.928	13.928	2.31	1.8	14.52	15.858	1.34		

S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY

SECTION 138 APPROVAL

14/12/2022  
Jamie Pickett



FOR CONSTRUCTION

<b>ACOR Consultants Pty Ltd</b> 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 T: 61 2 9634 6311 F: 61 2 9634 6312		<b>ACOR</b> CONSULTANTS 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 T: 61 2 9634 6311 F: 61 2 9634 6312	
<b>SCOTT HARRIS &amp; ASSOCIATES</b> 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 T: 61 2 9634 6311 F: 61 2 9634 6312		<b>SHO</b> CONSULTANTS 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 T: 61 2 9634 6311 F: 61 2 9634 6312	
<b>ACOR Consultants Pty Ltd</b> 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 T: 61 2 9634 6311 F: 61 2 9634 6312		<b>ACOR</b> CONSULTANTS 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 T: 61 2 9634 6311 F: 61 2 9634 6312	
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<b>SCOTT HARRIS &amp; ASSOCIATES</b> 10/10 Level 1, The Market Place 14/15 Market Street Sydney NSW 2000 			

## PIT RESULTS

SECTION 138 APPROVAL

13/12/2022

Jamie Pickett

S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY

[illegible]



LOCATION AND LAND-USE

INLET DESIGN

PIPE SYSTEM DESIGN

PIT RESULTS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Design Year	Pit Name	Sub- Catchment Area	Land- Use	Percent Age	Total Time	Peak Sub- Catchment Flowrate	Origin of Flowrate	Overflows	Approach Flowrate	Flow Width	Depth x Velocity	Total Approach Flow	Flow Width	Depth x Velocity	Flow Width	Depth x Velocity	Flow Width	Depth x Velocity	Flow Width	Depth x Velocity	Peak Flow in Pipe	Reach Length	Pipe Slope	Pipe Diameter	UIS Pipe Invert Level	UIS Pipe Invert Level	UIS Pipe Invert Level	UIS Pipe Invert Level	UIS Pipe Invert Level	UIS Pipe Invert Level	UIS Pipe Invert Level	UIS Pipe Invert Level	
100 Year	EX-011	0.3562	Paved	20	9.8	1.17	0.362		1.177	1.063	0.36	1.177	1.063	0.36	0	0	0	0	0	0	0.122												
100 Year	EX-021	2.0127	Paved	20	10	1.172	1.172		1.177	1.063	0.36	1.177	1.063	0.36	0	0	0	0	0	0	0.122												
100 Year	HW1	2.8254	Paved	20	12.7	1.566	1.566		1.566	0	0	1.566	0	0	0	0	0	0	0	0	1.566												
100 Year	DR-012		Paved	20	11.7			HW1	0	0	0	0	0	0	0	0	0	0	0	0	1.613												
100 Year	DR-013	0.0199	Paved	50	5	0.014	0.014	DR-012	0	0	0	0.014	0	0	0	0	0	0	0	0	1.603												
100 Year	DR-014	0.019	Paved	50	5	0.014	0.014	DR-013	0	0	0	0.014	0	0	0	0	0	0	0	0	1.613												
100 Year	DR-015	0.0207	Paved	50	5	0.015	0.015	DR-014	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-016	0.0214	Paved	50	5	0.015	0.015	DR-015	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-017		Paved	50	5	0.015	0.015	DR-016	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-018		Paved	50	5	0.015	0.015	DR-017	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-019		Paved	50	5	0.015	0.015	DR-018	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-020		Paved	50	5	0.015	0.015	DR-019	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-021		Paved	50	5	0.015	0.015	DR-020	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-022		Paved	50	5	0.015	0.015	DR-021	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-023		Paved	50	5	0.015	0.015	DR-022	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-024		Paved	50	5	0.015	0.015	DR-023	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
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100 Year	DR-026		Paved	50	5	0.015	0.015	DR-025	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-027		Paved	50	5	0.015	0.015	DR-026	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
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100 Year	DR-030		Paved	50	5	0.015	0.015	DR-029	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
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100 Year	DR-036		Paved	50	5	0.015	0.015	DR-035	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-037		Paved	50	5	0.015	0.015	DR-036	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-038		Paved	50	5	0.015	0.015	DR-037	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-039		Paved	50	5	0.015	0.015	DR-038	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-040		Paved	50	5	0.015	0.015	DR-039	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-041		Paved	50	5	0.015	0.015	DR-040	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-042		Paved	50	5	0.015	0.015	DR-041	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-043		Paved	50	5	0.015	0.015	DR-042	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-044		Paved	50	5	0.015	0.015	DR-043	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-045		Paved	50	5	0.015	0.015	DR-044	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-046		Paved	50	5	0.015	0.015	DR-045	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-047		Paved	50	5	0.015	0.015	DR-046	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-048		Paved	50	5	0.015	0.015	DR-047	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-049		Paved	50	5	0.015	0.015	DR-048	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-050		Paved	50	5	0.015	0.015	DR-049	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-051		Paved	50	5	0.015	0.015	DR-050	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-052		Paved	50	5	0.015	0.015	DR-051	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-053		Paved	50	5	0.015	0.015	DR-052	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-054		Paved	50	5	0.015	0.015	DR-053	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-055		Paved	50	5	0.015	0.015	DR-054	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-056		Paved	50	5	0.015	0.015	DR-055	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-057		Paved	50	5	0.015	0.015	DR-056	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-058		Paved	50	5	0.015	0.015	DR-057	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
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100 Year	DR-062		Paved	50	5	0.015	0.015	DR-061	0	0	0	0.015	0	0	0	0	0	0	0	0	1.626												
100 Year	DR-063		Paved	50	5	0.015	0.015	DR-062	0																								

[illegible]

Diagram illustrating the components of a temporary stockpile:

- SITE BOUNDARY
- SEDIMENT CONTROL FENCE
- DROP NET-1 SEDIMENT FILTER
- STRAW BALE SEDIMENT FILTER
- SANDBAG KEHR INLET PROTECTION
- PROPOSED ON SITE DETENTION / SEDIMENT BASIN
- TEMPORARY TOPSOIL STOCKPILE

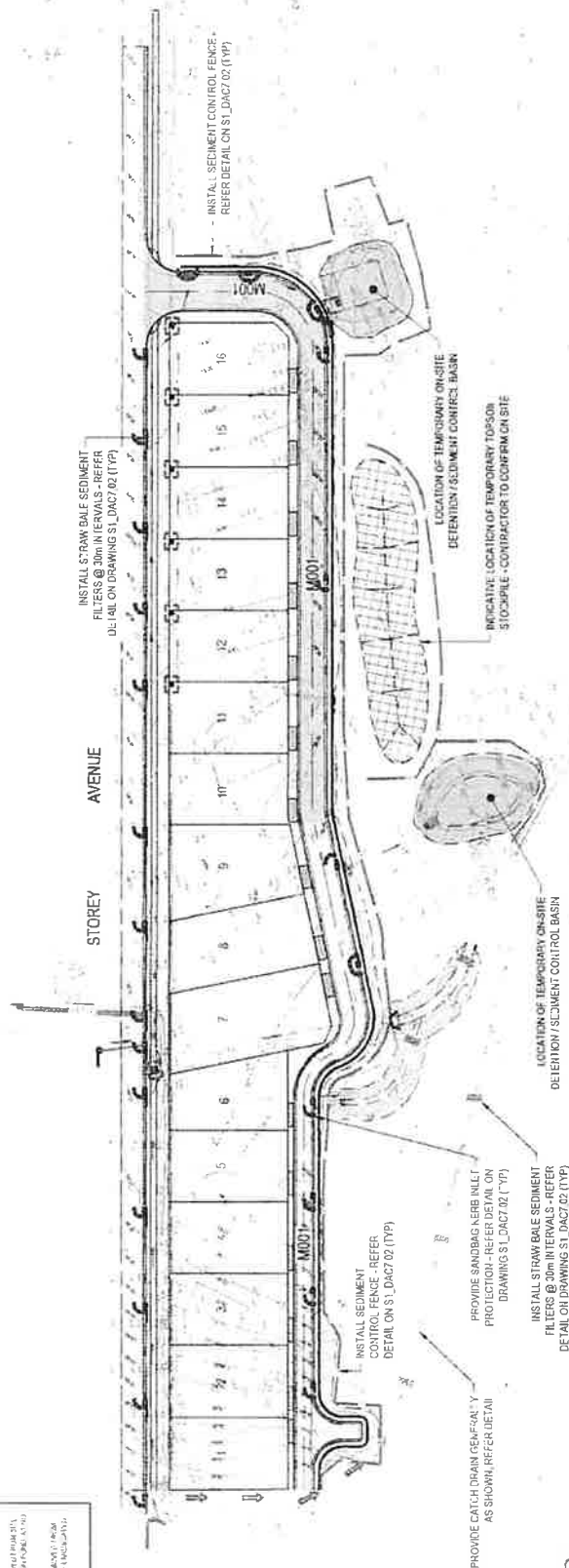


STREET

HOPKINS

PRINCES

HIGHWAY



S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY

## PLAN

Figure 1

LINCOLN PLACE



Mark Langdon  
SCOTT HARRIS

**ASSOCIATES**



AC OR

Multi-Unit Housing Development

**ACQR Consultants Pty Ltd**  
Unit 10, Level 1, No 1 Marland Place  
Baulkham Hills NSW 2153  
T +61 2 9634 6311

FOR CONSTRUCTION

<p>2. <b>Learning Objectives</b></p> <p>At the end of this session, you should be able to:</p> <p>1. Explain the importance of the business plan in the business development process.</p>	<p>3. <b>Learning Objectives</b></p> <p>At the end of this session, you should be able to:</p> <p>1. Explain the importance of the business plan in the business development process.</p>
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## EROSION AND SEDIMENT CONTROL NOTES

### GENERAL INSTRUCTIONS

1. THIS EROSION AND SEDIMENT CONTROL PLAN IS BASED ON THE ASSUMPTION THAT THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
2. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
3. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.

### LAND DISTURBANCE INSTRUCTIONS

1. DISTURBANCE TO THE LAND SHOULD BE LIMITED TO THE MINIMUM NECESSARY FOR THE CONSTRUCTION OF THE PROJECT. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
2. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
3. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.

### BITE INSPECTION AND MAINTENANCE INSTRUCTIONS

1. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
2. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
3. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.

### WASTE CONTROL INSTRUCTIONS

1. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
2. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
3. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.

## EROSION AND SEDIMENT CONTROL NOTES

### IMPORTANT NOTES:

1. THE DRAWINGS ARE FOR GUIDANCE PURPOSES ONLY. THE SOIL AND EROSION CONTROLS ARE INDICATIVE AND REMAIN SUBJECT TO CONSTRUCTION METHODOLOGY. THE CONTRACTOR SHALL AT ALL TIMES REMAIN RESPONSIBLE FOR COMPLIANCE WITH ALL LAWS AND REGULATIONS PERTAINING TO SAFETY AND PROTECTION OF ENVIRONMENT.
2. ALL SOIL AND EROSION CONTROLS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH COUNCIL GUIDELINES AND CONDITIONS. ALL WORKS TO BE IMPLEMENTED TO THE NEW "BLUE BOOK" - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION - VOLUME 1, 4TH EDITION.
3. CONTRACTOR TO ENSURE THAT SEDIMENT IS NOT ALLOWED TO ENTER ADJACENT LOTS TO DOWNSTREAM STORMWATER SYSTEMS. ANY DAMAGE WHATSOEVER CAUSED THROUGH BREACH OF THIS CONDITION BY THE CONTRACTOR SHALL BE RECTIFIED SOLELY AT THE CONTRACTOR'S COST.
4. CONTRACTOR TO REMOVE ALL SILT AND SOIL DEPOSITED ON PUBLIC ROADS BY THE END OF EACH WORKING DAY USING A STREET SWEEPER OR VACUUM TRUCK.

## EROSION AND SEDIMENT CONTROL NOTES

### SEDIMENT CONTROL INSTRUCTIONS

1. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLAN AND ELEVATION. AT THE DISCRETION OF THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT MEASURES PROVIDED THEY ARE APPROVED BY THE ENGINEER.
2. SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES.
3. SEDIMENT CONTROL MEASURES SHALL BE REMOVED AS SHOWN ON THE PLAN AND ELEVATION. AT THE DISCRETION OF THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT MEASURES PROVIDED THEY ARE APPROVED BY THE ENGINEER.

### SOIL EROSION CONTROL INSTRUCTIONS

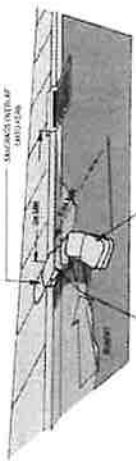
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### WASTE CONTROL INSTRUCTIONS

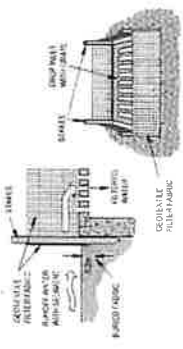
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### WASTE CONTROL INSTRUCTIONS

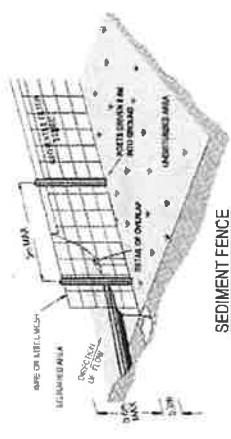
1. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
2. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.
3. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR. THE CONSTRUCTION SITE IS LOCATED IN AN AREA WITH A RAINFALL INTENSITY OF 100 MM PER HOUR.



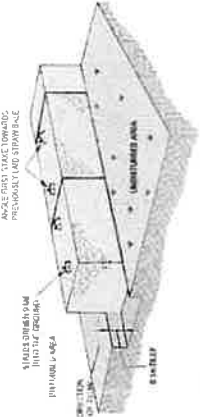
SANDBAG KERB INLET SEDIMENT TRAP



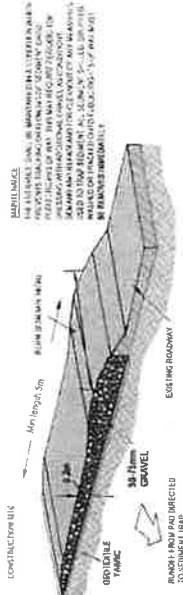
GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP



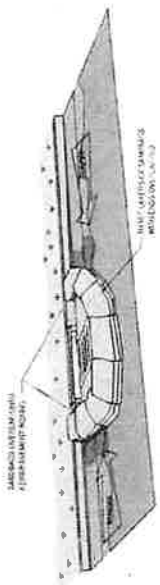
SEDIMENT FENCE



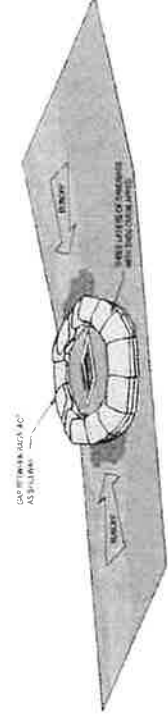
STRAW BALE SEDIMENT FILTER (ALTERNATE)



TEMPORARY CONSTRUCTION EXIT



SANDBAG SEDIMENT TRAP - AT KERB SIDE



SANDBAG SEDIMENT TRAP - AT OPPOSITE KERB SIDE

## S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY

### SANDBAG SEDIMENT TRAP DETAILS

SECTION 1.8 APPROVAL

18/12/2022

James P. Kelly

FOR CONSTRUCTION

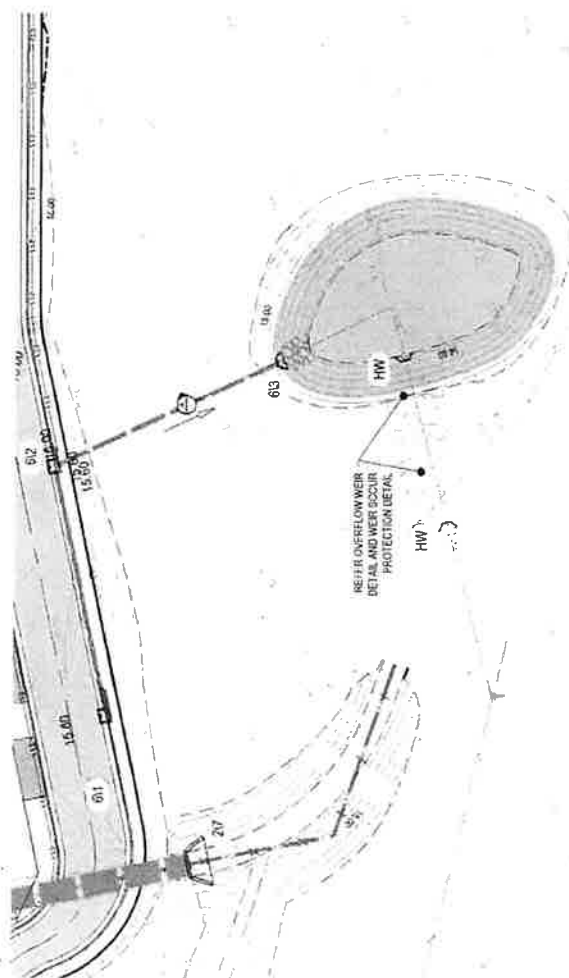
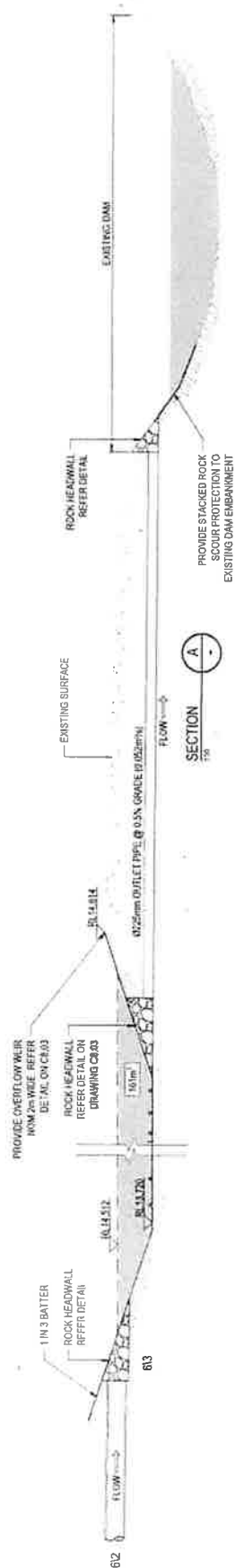
ACOR Consultants Pty Ltd		MULTI UNIT HOUSING DEVELOPMENT	
Unit 10 Level 1, 101 Midland Place		PRINCIPAL HIGHWAY	
Barrabarra NSW 2153		ECCN 101 2021	
14612 ROAD 6/11		ECCN 101 2021	
SCOTT HARRIS & ASSOCIATES		WS190315	
18/12/2022		ECCN 101 2021	
JAMES P. KELLY		ECCN 101 2021	



SECTION 13B APPROVAL

14/12/2022

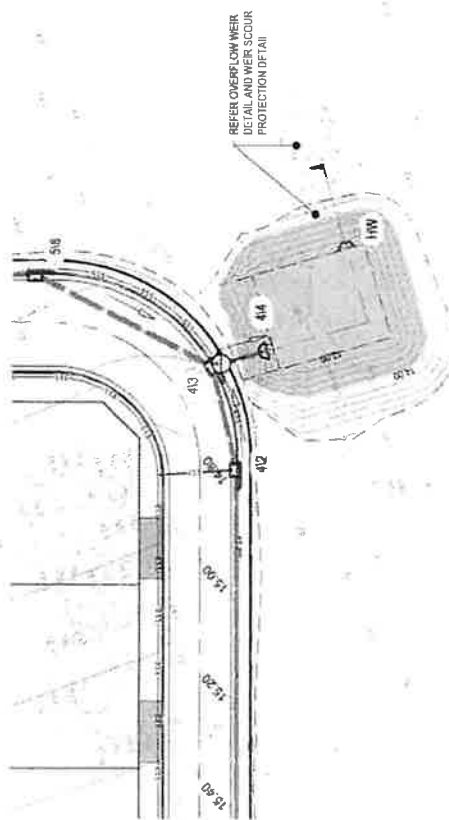
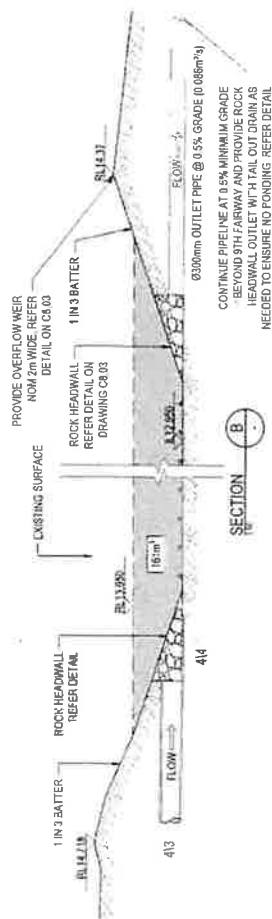
Jaime Pilkett



PLAN VIEW

[illegible]

S138 APPROVAL FOR  
WORKS IN THE  
STOREY AVENUE  
ROAD RESERVE ONLY



**PLAN VIEW**  
1/200

#### SELECTION AND APPROVAL

14/12/2022

June P. Kraft

[illegible]



# S138 APPROVAL FOR WORKS IN THE STOREY AVENUE ROAD RESERVE ONLY

SECTION 138 APPROVAL

14/12/2022  
Liamie Pickett



## 4. Volume of Sediment Basins, Type D and Type F Soils

1. The volume of sediment basins is calculated using the following formula:

$$V = \frac{Q \times T \times K}{1000}$$

Where:

- V = Volume of sediment basin (m³)
- Q = Peak flow rate (L/s)
- T = Time of concentration (min)
- K = Sedimentation coefficient

2. The volume of sediment basins is calculated using the following formula:

$$V = \frac{Q \times T \times K}{1000}$$

Where:

- V = Volume of sediment basin (m³)
- Q = Peak flow rate (L/s)
- T = Time of concentration (min)
- K = Sedimentation coefficient

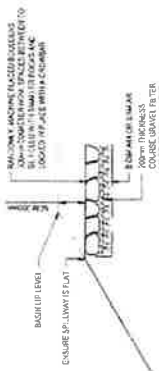
3. The volume of sediment basins is calculated using the following formula:

$$V = \frac{Q \times T \times K}{1000}$$

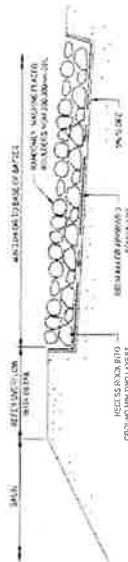
Where:

- V = Volume of sediment basin (m³)
- Q = Peak flow rate (L/s)
- T = Time of concentration (min)
- K = Sedimentation coefficient

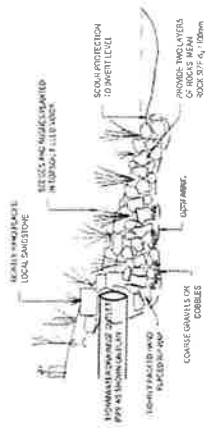
Basin	Volume (m³)	Area (m²)	Depth (m)
1	1000	100	10
2	2000	200	10
3	3000	300	10
4	4000	400	10
5	5000	500	10



OVERFLOW WEIR DETAIL  
NOT TO SCALE



WEIR SCOUR PROTECTION  
NOTE: PROTECTING AT ACCORDANCE WITH QDA



TYPICAL STONE HEADWALL DETAIL  
SCALE 1:10

FOR CONSTRUCTION

<p>Project Name: <b>SCOTT MARSH &amp; ASSOCIATES</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>		<p>Project Name: <b>ACOR CONSULTANTS Pty Ltd</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>		<p>Project Name: <b>SHO CONSULTANTS</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>		<p>Project Name: <b>WS190315</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>	
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<p>Project Name: <b>SCOTT MARSH &amp; ASSOCIATES</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>		<p>Project Name: <b>ACOR CONSULTANTS Pty Ltd</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>		<p>Project Name: <b>SHO CONSULTANTS</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>		<p>Project Name: <b>WS190315</b></p> <p>Project Address: <b>100/102 STOREY AVENUE, SYDNEY NSW 2000</b></p>	

