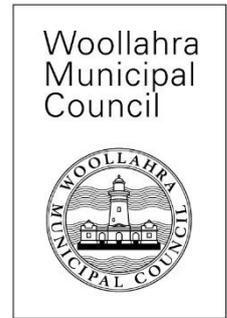


Council's Ref: 352/2020/1:YD/RG
Your Ref: Technical Services Division



ABN 32 218 483 245

22 July 2021



Cranbrook Senior School
5 Victoria Road
BELLEVUE HILL NSW 2023

**Consent to Carry Out Infrastructure Works in Road Reserves
Outside 5 Victoria Road BELLEVUE HILL NSW 2023**

Date of issue of Consent: 16/02/2021

Roads Act Consent No. 352/2020/1

Reference: DA SSD-8812

Redleaf Council Chambers
536 New South Head Road
Double Bay NSW 2028

Correspondence to
General Manager
PO Box 61
Double Bay NSW 1360
DX 3607 Double Bay
records@woollahra.nsw.gov.au
www.woollahra.nsw.gov.au

Telephone: (02) 9391 7000
Facsimile: (02) 9391 7044

Your application for consent to carry out work has been determined by granting of consent under Section 138(1)(a) of the *Roads Act 1993*, subject to the conditions listed below.

Definitions

The following words have these meanings in regards to the Conditions:

“**Acts**” means any legislation passed by the New South Wales or Federal parliaments

“**Applicant**” means the party/parties applying for the Consent to construct the Works.

“**Commencement Date**” means the date of issue of this Consent

“**Consent**” means this consent under section 138 of the Roads Act including the conditions contained in this Consent.

“**Council**” means Woollahra Municipal Council

“**Road**” means that part of the public road and/or public land named under “Works” definition, in which the Works are to be carried out.

“**Term**” means the period from the commencement date to the termination date

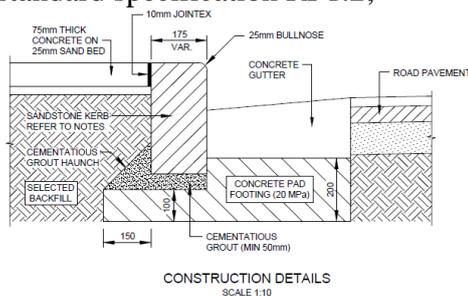
“**Works**” means the construction of driveways; loading bays/zones; landscape; stormwater drainage and associated works specified in this Consent within the road reserve at 5 Victoria Road Bellevue Hill within the frontages of New South Head Road and Rose Bay Avenue.

CONDITIONS

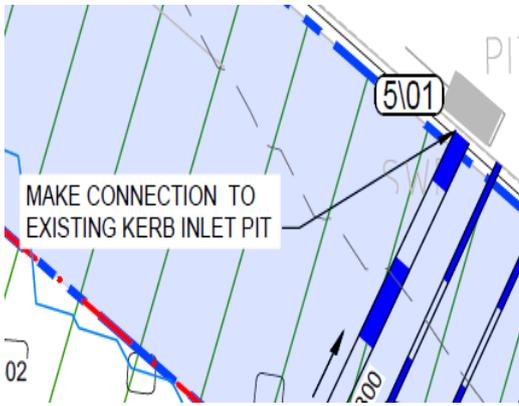
1. Consented Works

Road; Stormwater Drainage and; Associated Civil Works:

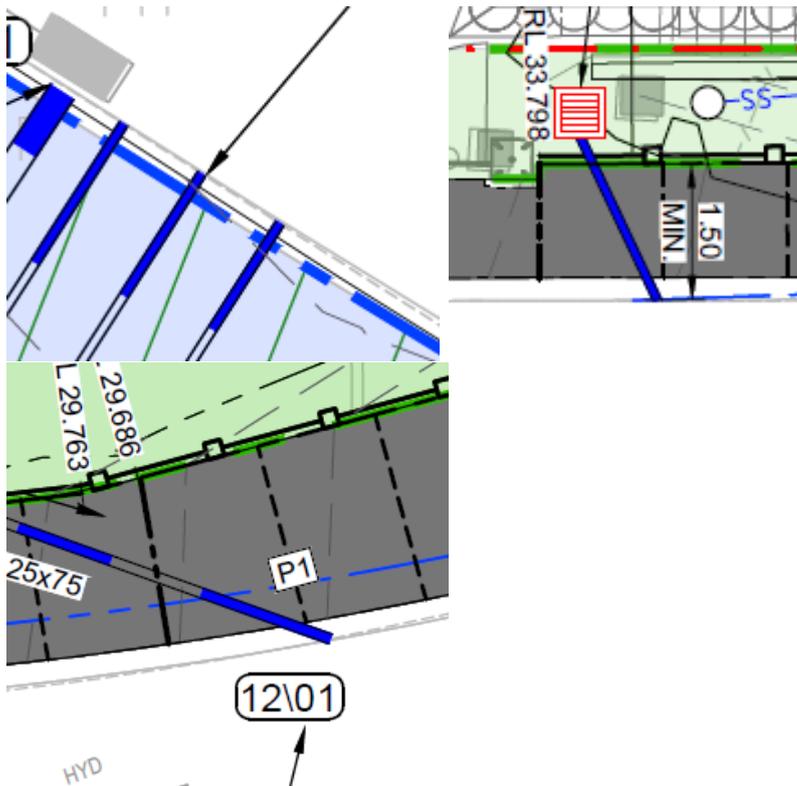
1. The removal of existing kerb and gutter and the construction of a new full width **5.5m** wide vehicular crossing for vehicular access into the proposed basement parking, to match levels of approved drawing 60549969-SHT-01-CR-C-1102-C8 prepared by AECOM. The new crossing is to be constructed at right angle to the street kerb in plain concrete in Rose Bay Avenue;
2. The removal of existing kerb and gutter and the construction of a new full width **3.0m** wide vehicular crossing for vehicular access into the proposed maintenance building, to match levels of approved drawing 60549969-SHT-01-CR-C-1102-C8 prepared by AECOM. The new crossing is to be constructed at right angle to the street kerb in plain concrete in Rose Bay Avenue;
3. The removal of the existing kerb ramp and the construction of a new kerb ramp in accordance with Council's standard specification as per drawing RF3;
4. The reconstruction of sand stone kerb & concrete gutter and road pavement in AC, where applicable as approved in new alignment through loading zones, as per Council standard specification RF1.2;



5. The full reconstruction of the footpath in concrete as per Council Specification along Rose Bay Avenue in accordance with the approved plans outside the set back fence line and in re-align section where loading bays (including kerb ramp inside loading bay) are proposed in the drawings 60549969-SHT-01-CR-C-1102-C8 and -1103-C8 prepared by AECOM;
6. The full reconstruction of the footpath in concrete including short concrete hob wall along true private boundary as per Council Specification along Rose Bay Avenue in accordance with the approved plans inside the set back fence line proposed in the drawings 60549969-SHT-01-CR-C-1102-C8 and -1103-C8 prepared by AECOM;
7. Relocation and installation of palisade fence within road reserve to a set-back position (varied) as depicted in the drawings 60549969-SHT-01-CR-C-1102-C8 and -1103-C8 prepared by AECOM.
8. Stormwater pipe connection to existing kerb inlet pit as per Council Specification drawing DR1;



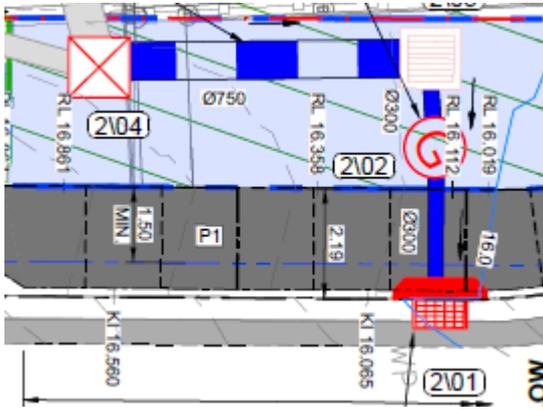
9. Stormwater pipe connection to sand stone kerb face by core drill hence preserving the integrity of the sand stone;



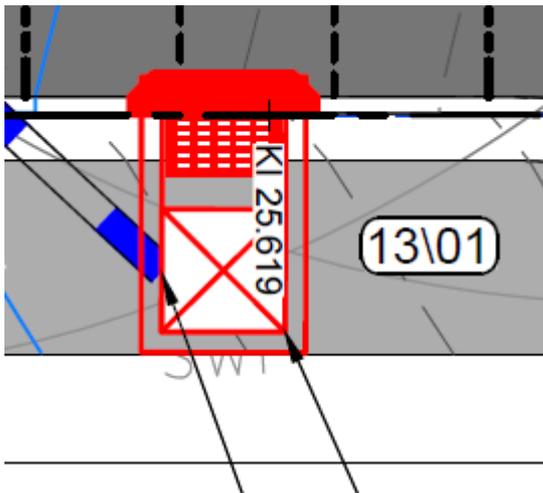
10. Stormwater pipe connection to existing junction pit or new junction pit as per Council Specification drawing DR3.



11. Stormwater pipe connection to new kerb inlet pit via Rocla GPT including other pits as per Council Specification drawings DR1 and DR3;



12. Stormwater pipe connection to new kerb inlet pit whereby modify and complete rebuild with new gatic lid as per Council Specification drawings DR1 and DR3 combined;



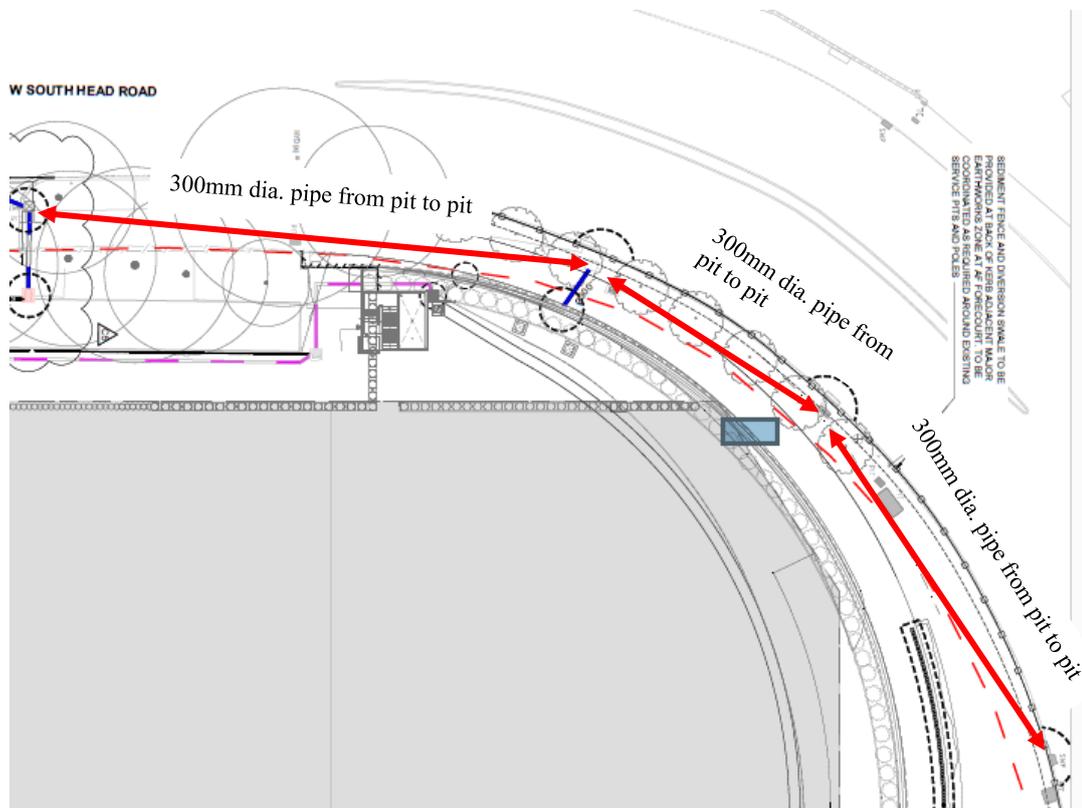
13. The reconstruction of the existing footpath across the frontage of the proposed works in New South Head Road in accordance with Council's standard specification in plain concrete. The footpath must be constructed to the following specification:

- The width of the footpath at least be 2.5m
- The footpath must be constructed in plain concrete
- A maximum cross-fall of 3% must be provided

14. The removal of existing kerb & gutter and the existing driveway AND the construction of a new full width **5.1m** wide driveway on New South Head Road for maintenance vehicular access to the site including stormwater 300mm dia. pipe connection to a junction pit as per Council standard DR3 plus kerb inlet pit DR1 including 300mm dia. outlet pipe to above junction pit, as per approved drawing 60549969-SHT-01-CR-C-1105-C2 prepared by AECOM. The new crossing is to be constructed at right angle to the street kerb in plain concrete. This work must also be inspected by Transport for NSW (TfNSW) in addition to Council staff inspection;

15. Install a new internal pipe liner (CIPP) to the existing stormwater pipe 300mm as specified in Interline UV by Interflow at below location where line of trees to be planted.

<https://www.interflow.com.au/wp-content/uploads/2018/02/Interline-UV-Brochure.pdf>



16. Installation of grease arrester in loading ramp within easement;
17. Certification for construction from structural/civil engineer must be submitted upon construction completion certifying that all civil works are designed and constructed in accordance with Council's specification and the relevant Australian Standards. These include all traffic devices; associated landscaping; retaining wall and infrastructure (footpath, kerb and gutter and road pavement) works;

Landscaping Works:

18. There are potential impacts as a result of the location of the proposed storm water line to Tree 11. The upgrade to the footpath on New South Head Road also has the potential to negatively impact Council street trees referenced 45A and 46. With this observation, Council's Tree and Landscaping Officer has determined that the landscaping proposal within road reserve is satisfactory in terms of tree preservation and landscaping, subject to the enumerated **Condition 7.0** below.

2. Term of Consent

This Consent is valid for a period of **18 months** from the date of issue of this Consent.

3. Legal Arrangement for the Works to Remain on Council Road Reserve

The Applicant must make arrangements so that owner of land who benefits from DA SSD-8812. You should get in touch with Council Property Services with below details following completion of works:

- 3.1 Works-as-executed drawings for all items installed under this Consent and for existing items, if any, including substantial fences by a licenced surveyor;
- 3.2 Make an application for formalisation as per *Council Policy on Encroachments in Public Land*;
- 3.3 Make sure such legal arrangement covers maintenance, insurance, care and upkeep of those items identified as above.

4. Security Bond

The Applicant's damage security deposit and infrastructure work bond, cumulatively of **\$678,500** is held by Council as security for satisfactory completion of the Works. The bond will not be released until:

- a) A formal 'Refund of Security' application is lodged (available from Council's web site www.woollahra.nsw.gov.au, and
- b) Council has inspected the site and is satisfied the Works have been completed in accordance with Council approved drawings and to Council requirements.
- c) Owner has finalised legal arrangement as per above condition 3 of this Consent.

Council may use part or the entire bond to meet the cost of removing the Works, or completing the Works if they do not meet Council requirements, or repairing any damage as a result of the Works or their removal.

Note: after Council's final inspection of these Works 10% of the bond may be retained for a further twelve (12) month period and be used by Council to repair any defects or temporary works necessary after the final inspection.

5. Costs

The Applicant must promptly pay all costs, charges and expenses in connection with Works the Applicant carries out including, but not limited to, those incurred by the Council in considering, approving, surveying and supervising the Works.

6. Applicant's Obligations

The Applicant must ensure that: (*where applicable*)

- a) the Works are carried out in accordance with the approved plans and drawings;
- b) the Works are constructed in accordance with the approved drawings and specifications. The Works shall also be carried out in accordance with Council's specifications as set out in **Annexure A** (*for major works reference Council's specification for Roadworks, Drainage and Miscellaneous Works*);
- c) the road is not closed without specific approval from Council;
- d) the regulatory parking and/or traffic sign plan be separately presented and approved by the Woollahra Local Traffic Committee (WLTC);
- e) Hours of Work – Amenity of the neighbourhood
 - a) No work must take place on any Sunday or public holiday,
 - b) No work must take place before 7am or after 5pm any weekday,
 - c) No work must take place before 7am or after 1pm and Saturday,
 - d) The following work **must not** take place before 9am or after 4pm any weekday, or before 9am or after 1pm any Saturday or at any time on a Sunday or public holiday;
 - i. Piling;
 - ii. Piering;
 - iii. Rock or concrete cutting, boring or drilling;
 - iv. Rock breaking;
 - v. Rock sawing;
 - vi. Jack hammering; or
 - vii. Machine excavation,

- f) No loading or unloading of material or equipment associated with the work activities listed in part d) above must take place before 9am or after 4pm any weekday, or before 9am or after 1pm any Saturday or at any time on a Sunday or public holiday.
- g) No operation of any equipment associated with the activities listed in part d) above must take place before 9am or after 4pm any weekday, or before 9am or after 1pm and Saturday or at any time on a Sunday or public holiday.
- h) No rock excavation being cutting, boring, drilling, breaking, sawing, jack hammering or bulk excavation of rock, must occur without a 15 minute break every hour.
- i) Adhere Council's requirement for **inspections** at the following hold points for road and civil works:
 - i. following completion of formwork for driveway/footpath/other civil structures prior to concreting/finishing; and
 - ii. completed and reconstructed Works.

Note: Council's Engineering Services Department require a minimum of 24 hours advance notice for the inspection being undertaken. Please contact our office on (02) 9391 7029 to arrange an inspection time.

- j) At all times during the Works, there is a safe pedestrian circulation route being a minimum of 1.5 metres wide and with a pavement free of trip hazards. Where circulation is diverted onto the roadway, clear directional signage and protective barricades must be installed in accordance with Australian Standard *AS1742.3 2009 "Traffic Control Devices for Work on Roads"*. If pedestrian circulation is not satisfactorily maintained and action is not taken promptly to rectify the defects, Council may stop the Works and deduct any necessary costs from the bond.
- k) There is compliance with Council's Tree Preservation Order (**Annexure B**) when working around trees in the road reserve.
- l) There is compliance on time with all Acts and the requirements of authorities in connection with the Road, the Applicant's property and the use or occupation of the Road (including obtaining all permits).
- m) If the restoration of pedestrian or vehicular access is not completed within a satisfactory time period and action is not taken promptly to rectify the situation, Council may stop the Works and deduct any necessary cost from the bond to restore the affected access points.
- n) Council is informed of any damage or unusual items within/ under the road reserve.
- o) Any damage to private property or Council's infrastructure as a result of the Consented Works is promptly repaired to Council's satisfaction.
- p) Council as able to exercise its rights under this Consent promptly when asked by the Council acting reasonably.
- q) Heritage listed **Street Name Inlays** in the footpath/kerb/gutter adjoining the development site must be protected and not removed or damaged during development. Appropriate measures are to be undertaken to ensure the protection of the street name inlays at all times during the course of construction. Any damage may affect the release of the Security Bond.
- r) If sand stones or any other paving material (sand stone kerb and gutter, bricks, granite etc.) are found, appropriate measures should be taken to reuse or preserve and deliver them to Council's yard, at the Applicant's expense, if not to be used in the proposed construction. Please call the depot on 9391 7985 to arrange delivery.

- s) All road related concrete works including driveways must only be done in plain concrete to the specified strength. Colouring of concrete, stencil work or paving work is not permitted without specific approval.

7.0 Landscape Related Specific Conditions Establishment of Tree Protection Zone (TPZ) Fence

Tree Protection Zones shall be established around all trees to be retained and in accordance with Section 4 of the *Australian Standard Protection of Trees on Development Sites* (AS 4970- 2009). Tree protection zones must also comply with the following requirements;

- a) Tree Protection Zone areas

Council Ref No.	Species	Tree Location	Fence Radius from Centre of Trunk (Metres)
46	<i>Afrocarpus falcatus</i> (Outeniqua Yellowwood)	New South Head Road- Refer to Arcadia Street Level Landscape Plan Referenced LP 104.	2 metres

Note: Where this condition relates to street trees and the fence cannot be placed at the specified radius, the fencing shall be positioned so that the entire verge (nature strip) area in front of the subject property, excluding existing driveways, footpaths and bus stops is protected.

Note: Where this condition relates to trees on private property the radial distance of fencing shall be positioned only within the subject property.

- b) Tree Protection Zones shall be fenced with a 1.8 metre high chainmesh or weldmesh fence and secured to restrict access. The fence shall be established prior to any materials being bought onto the site and before the commencement of works including demolition. The area within the fence shall be mulched and maintained to a depth of 75mm. The soil within the TPZ shall be kept in a moist condition for the duration of the construction works. Unless approved by the site arborist there shall be no access within the TPZ.
- c) Trunk protection shall be installed around the trunks of the following trees:

Council Ref No.	Species	Location
45A	<i>Celtis sinensis</i> (Chinese Hackberry)	New South Head Road- Refer to Arcadia Street Level Landscape Plan Referenced LP 104.
46	<i>Afrocarpus falcatus</i> (Outeniqua Yellowwood)	New South Head Road- Refer to Arcadia Street Level Landscape Plan Referenced LP 104.

Trunk protection shall consist of a padding material such as hessian or thick carpet underlay wrapped around the trunk. Hardwood planks (50mm x100mm or similar) shall be placed over the padding and around the trunk of the tree at 150mm centres. The planks shall be secured with 8 gauge wire at 300mm spacing. Trunk protection shall extend a minimum height of 2 metres or to the maximum possible length permitted by the first branches.

- d) A sign identifying the Tree Protection Zone shall be erected on each side of the protection fence indicating the existence of a TPZ. Signage must be visible from within the development site.

- e) No excavation, construction activity, grade changes, storage of materials, stockpiling, siting of works sheds, preparation of mixes or cleaning of tools is permitted within Tree Protection Zones, unless specified in Condition B.2 of this consent.
- g) Temporary access within the TPZ for pedestrian and machinery movements shall only be permitted with the approval of the site arborist or unless specified in this consent.
- h) The site foreman must be made aware of all tree protection requirements associated with these conditions of consent by the project arborist. Any subsequent site personnel and contractors to the site must be made aware of all tree protection requirements by the site foreman.
- i) The project arborist shall provide written certification of compliance with the above condition.

7.2 Hand excavation within tree root zones

Excavation undertaken within the specified radius from the trunks of the following trees shall be hand dug.

Council Ref No.	Species	Location	Radius from centre of trunk (metres)
11	<i>Lophostemon confertus</i> (Brushbox)	Adjacent Rose Bay Avenue. Refer to Arcadia WMH Level Landscape Plan 02-00	5 metres
45A	<i>Celtis sinensis</i> (Chinese Hackberry)	New South Head Road- Refer to Arcadia Street Level Landscape Plan Referenced LP 104.	9 metres
46	<i>Afrocarpus falcatus</i> (Outeniqua Yellowwood)	New South Head Road- Refer to Arcadia Street Level Landscape Plan Referenced LP 104.	9 metres

Small hand tools such as mattocks or using compressed air or water jetting only shall be used. Roots with a diameter equal to or in excess of 50mm shall not be severed or damaged unless approved in writing by the project arborist.

Mechanical excavation is permitted beyond this radius when root pruning by hand along the perimeter line is completed. Exposed roots to be retained shall be covered with mulch or a geotextile fabric and kept in a moist condition and prevented from drying out.

All root pruning must be undertaken in accordance with the Australian Standard 4373 “Pruning of Amenity Trees” and carried out by a qualified Arborist (minimum qualification of Australian Qualification Framework Level 5 or recognised equivalent).

The project arborist shall document compliance with the above condition.

7.3 Underground services shall not be positioned within the following radial distances

Council Ref No.	Species	Location	Radius from centre of trunk (metres)
11	<i>Lophostemon confertus</i> (Brushbox)	Adjacent Rose Bay Avenue Refer to Arcadia WMH Level Landscape Plan 02-00	4 metres

The project arborist shall document compliance with the above condition.

7.4 Arborists Documentation and Compliance Checklist

The site arborist shall provide written certification that all tree protection measures and construction techniques relevant to this consent have been complied with. Documentation for each site visit shall include:

- A record of the condition of trees to be retained prior to and throughout development;
- Recommended actions to improve site conditions and rectification of non-compliance; and
- Recommendations for future works which may impact the trees

All compliance certification documents shall be kept on site by the Site Foreman.

As a minimum the following intervals of site inspections must be made:

Stage of arboricultural inspection	Compliance documentation and photos shall be included
Installation of tree protection fencing	Compliance with tree protection measures
Installation of stormwater pipe within 5 metres of Tree 11.	Small hand tools such as mattocks or using compressed air or water jetting only shall be used; Roots with a diameter equal to or in excess of 50mm shall not be severed or damaged unless approved in writing by the project arborist.
Demolition of existing concrete footpath and any excavation within 9 metres of Trees 45A & 46.	Ensure the demolition of the existing concrete is undertaken manually; Roots with a diameter equal to or in excess of 50mm shall not be severed or damaged unless approved in writing by the project arborist. Exposed roots to be retained shall be covered with mulch or a geotextile fabric and kept in a

Inspections and compliance documentation shall be made by an arborist with AQF Level 5 qualifications.

Additional site visits shall be made when required by site arborist and/or site foreman for ongoing monitoring/supervisory work.

8.0 Compliance with Approvals and Regulations

Any Works carried out by the Applicant must:

- a) Comply with all necessary approvals from relevant authorities;
- b) Be carried out in a proper and professional manner; and
- c) Be in accordance with all Acts and requirements of authorities.
- d) Any part of private property new works must not encroach onto Council road reserve

9.0 Provision for Services

The Applicant must at their own cost:

- a) make enquiries to ascertain whether there are any services located within or under the Road including stormwater infrastructure.

Council will provide the Applicant an approximate location of the existing stormwater infrastructure upon request.

- b) make arrangements with any service provider for future access to any such services located within or under the Road.

These service providers include, but are not limited to, Sydney Water, Energy Australia, Optus, Telstra, and AGL.

10.0 Insurance and Risk

The Applicant must:

- a) Maintain with insurers approved by Council and on terms approved by Council, in the Applicant's and the Council's names and in the name of any other person named by the Council:
 - i. public liability insurance for at least \$20,000,000 (as varied by notice from Council to the Applicant); and
 - ii. other insurance required by law or which, in Council's reasonable opinion, the Applicant should take out including, but not limited to, insurance in connection with the Works and insurance of the Applicant's property, in connection with the Road.
- b) Provide Council with evidence of compliance upon request.
- c) Notify Council immediately if any insurance policy required by is cancelled or an event occurs which may allow a claim or affect rights under an insurance policy in connection with the Works, Roads or property over it.

11.0 Default Indemnities & Consents

The Applicant is liable for and indemnifies Council against liability or loss arising from, and costs incurred in connection with:

- a) Damage, loss, injury or death caused or contributed to by the Applicant's act, omission, negligence or default, except to the extent that it is contributed to by Council's act, omission, negligence or default; and
- b) Any actions taken by Council to fulfil the requirements of this Consent which the Applicant has not completed or has not performed to Council's satisfaction.

12.0 Releases

The Applicant releases Council from, and agrees that the Council is not liable for, any liability or loss arising from and/or cost incurred in connection with:

- a) Damage, loss, injury or death unless it is caused or contributed to by the Council's act, omission, negligence or default;
- b) Anything Council is permitted or required to do under this Consent; and
- c) The total or partial destruction or resumption of the Road or any improvements erected on the Road by reason of any Acts, a requirement of any constituted authority, or other cause outside the Council's control.

13.0 Independent Indemnity

Each indemnity is independent from the Applicant's other obligations and continues during and after the end of the Term. Council may enforce an indemnity before incurring expense.

14.0 The Council's right to withdraw this Consent

The Council may withdraw this Consent by giving the Applicant prior notice for any reason including if:

- a) The Applicant does not comply with an obligation under this Consent and/or
- b) Council determines that the Works would be technically deficient at a subsequent stage but before the commencement of the Works.

15.0 Indemnity on Consent being withdrawn

If this Consent is withdrawn under this Condition:

- a) The Applicant indemnifies Council against any liability or loss arising and any cost incurred (whether before or after termination or this Consent) in connection with its breach and the end of this Consent including Council's loss of the benefit of the Applicant performing his obligations under this Consent from the date that the Consent was withdrawn until the Terminating Date; and
- b) Council must take reasonable steps to mitigate its loss.

16.0 Relationship

Nothing in this Consent shall be interpreted as indicating that the relationship between Council and Applicant is a relationship of lessor and lessee or licensor and licensee.

In the absence of any legal agreement as described above, this Consent do not bind Council by any means to maintain in place all or any of these items constructed under this Consent to the future. Council reserve its absolute right in changing; augmenting and/or completely or partially removing of all or any item as it seems fit due to any single or number of reason/s.

17.0 Advisings

- a) The Applicant must notify Council when the driveway access is no longer required and arrange replacement of such driveway crossover with upright kerb, where applicable, in

accordance with Council's specification. Where applicable grass verge exists, the balance of the area between the footpath and the kerb must be reinstated to contain a uniform minimum 75mm of friable growing medium and have a total cover of Couch turf.

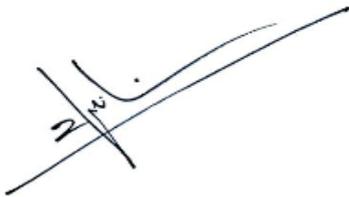
- b) Property owner/s who are served by these driveways must not place any material of any form to bridge across as part of this driveway within the road reserve, temporarily or permanently in future, without taking written permission/approval from Woollahra Municipal Council.

18.0 Disclaimer

Council is not responsible for establishing or checking reduced levels on site, submitted by the Applicant, for this construction.

Driveway drawings are checked **only** for the 85% of the vehicle population as per B85 template given in *AS2890.1-2004*.

It is the responsibility of the owner to have the driveway and other items constructed so they would not damage any vehicle which uses the same or adversely affect the functionality of any items.



Yasas de Silva
Team Leader, Infrastructure Asset Management

ANNEXURE A

Please find Woollahra Council Specification by following this link:

[http://www.woollahra.nsw.gov.au/_data/assets/pdf_file/0014/92012/Specification for Road works, Drainage and Miscellaneous Works.pdf](http://www.woollahra.nsw.gov.au/_data/assets/pdf_file/0014/92012/Specification_for_Road_works,_Drainage_and_Miscellaneous_Works.pdf)

ANNEXURE B

Please find Woollahra Council's Tree Preservation Order by following this link:

[http://www.woollahra.nsw.gov.au/_data/assets/pdf_file/0017/150542/Chapter E3 Tree Management.pdf](http://www.woollahra.nsw.gov.au/_data/assets/pdf_file/0017/150542/Chapter_E3_Tree_Management.pdf)



SEDIMENT FENCE AND DIVERSION SWALE TO BE PROVIDED AT BACK OF KERB ADJACENT MAJOR EARTHWORKS ZONE AT AF FORECOURT. TO BE COORDINATED AS REQUIRED AROUND EXISTING SERVICE PITS AND POLES

PROVIDE SEDIMENT FENCE AND HAY BALE FILTERS AT DOWNSTREAM SIDE OF INVASIVE FOOTPATH PAVING AND LOADING BAY WORKS

NEW SOUTH HEAD ROAD

ROSE BAY AVENUE

NEW SOUTH HEAD ROAD

ROSE BAY AVENUE

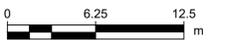
PROPOSED AQUATIC AND FITNESS CENTRE BELOW (AF)

DIVERSION SWALE TO BE PROVIDED AT TOP OF EMBANKMENT

CONTRACTOR TO ENGAGE GEOTECHNICAL CONSULTANT TO ENSURE EMBANKMENT STABILITY IS MAINTAINED DURING WORKS.

LEGEND

- SITE BOUNDARY
- SEDIMENT FENCE
- DIVERSION SWALE
- MESH AND GRAVEL INLET FILTER
- PROPOSED DRAINAGE PITS
- STABILISED SITE ACCESS AND WHEEL WASH
- STRAW BALE FILTER
- EXTENT OF CONSTRUCTION ACCESS



PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

C5	28.06.2021	FOR APPROVAL
C4	06.04.2021	ISSUE FOR CONSTRUCTION
C3	5.11.2020	FOR APPROVAL
C2	20.10.2020	DRAFT ISSUE FOR CONSTR.
C1	13.10.2020	DRAFT ISSUE FOR CONSTR.
C0	18.09.2020	DRAFT ISSUE FOR CONSTR.
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

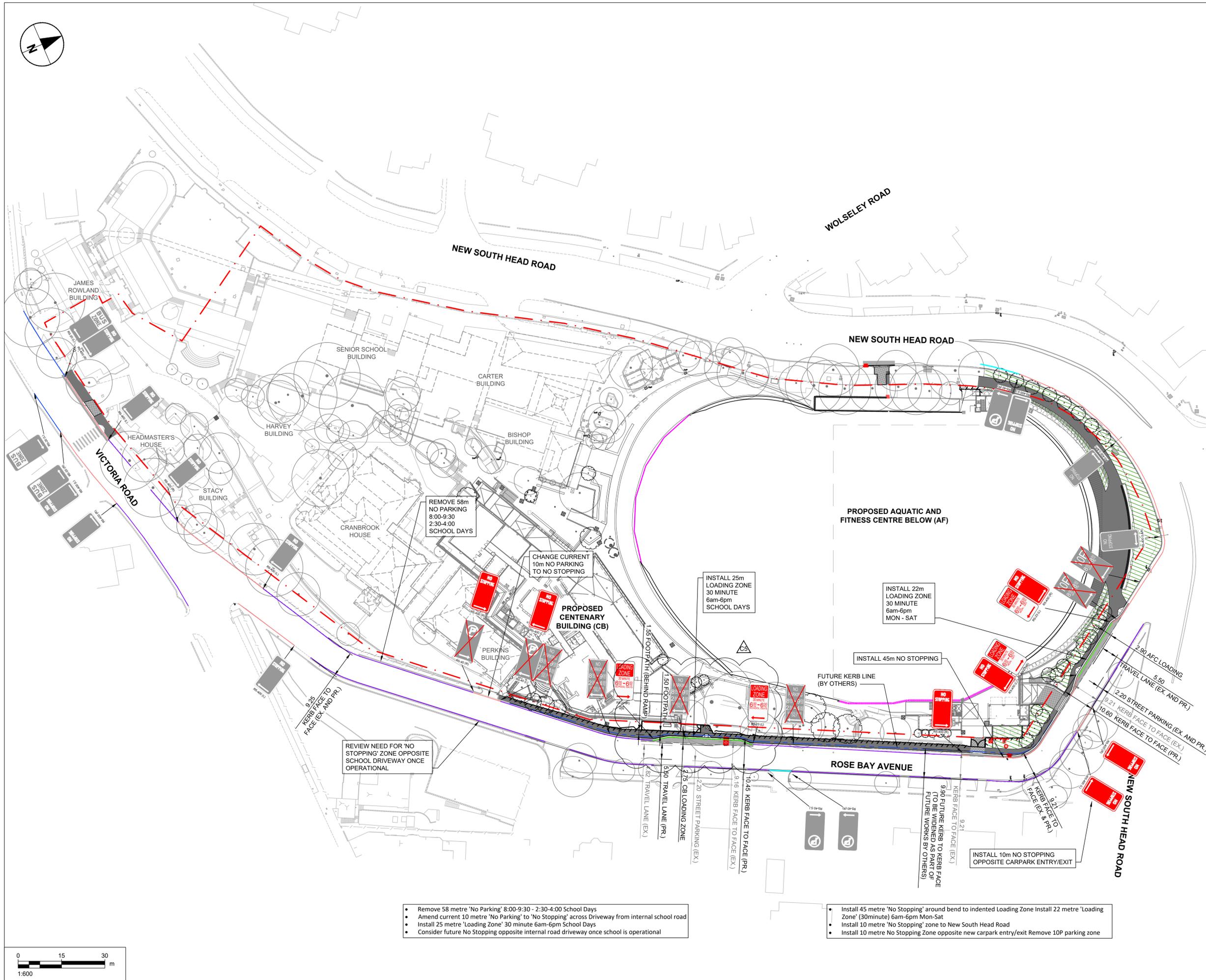
60549969

SHEET TITLE

DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN
SHEET 1

SHEET NUMBER

60549969-SHT-01-CR-C-1051



LEGEND

	LOT BOUNDARY
	ASPHALT ROAD REINSTATEMENT
	CONCRETE FOOTPATH PAVING
	CONCRETE DRIVEWAY PAVING
	GRANITE UNIT PAVING
	GRANITE DRIVEWAY PAVING
	SANDSTONE UNIT PAVING
	COBBLE ROAD PAVEMENT
	PROPOSED LANDSCAPING
	PROPOSED DRAINAGE PITS
	PROPOSED GRATED TRENCH DRAIN

PARKING CONDITIONS LEGEND

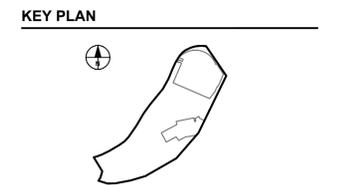
	NO STOPPING
	LOADING ZONE
	UNRESTRICTED PARKING (NO SIGNAGE)
	NO PARKING
	EXISTING SIGNAGE (TO BE RETAINED)
	EXISTING SIGNAGE (TO BE REMOVED)
	PROPOSED SIGNAGE

PROJECT MANAGEMENT INITIALS

	JW	GS	WH
DESIGNER			
CHECKED			
APPROVED			

ISSUE/REVISION

C	DATE	DESCRIPTION
C5	28.06.2021	FOR APPROVAL
C4	06.04.2021	ISSUE FOR CONSTRUCTION
C3	5.11.2020	FOR APPROVAL
C2	20.10.2020	DRAFT ISSUE FOR CONSTR.
C1	13.10.2020	DRAFT ISSUE FOR CONSTR.
C0	18.09.2020	DRAFT ISSUE FOR CONSTR.
I/R	DATE	DESCRIPTION



- Remove 58 metre 'No Parking' 8:00-9:30 - 2:30-4:00 School Days
- Amend current 10 metre 'No Parking' to 'No Stopping' across Driveway from internal school road
- Install 25 metre 'Loading Zone' 30 minute 6am-6pm School Days
- Consider future No Stopping opposite internal road driveway once school is operational

- Install 45 metre 'No Stopping' around bend to indented Loading Zone
- Install 22 metre 'Loading Zone' (30minute) 6am-6pm Mon-Sat
- Install 10 metre 'No Stopping' zone to New South Head Road
- Install 10 metre No Stopping Zone opposite new carpark entry/exit
- Remove 10P parking zone



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LEGEND

- LOT BOUNDARY
- RS1 ASPHALT ROAD REINSTATEMENT
- P1 CONCRETE FOOTPATH PAVING
- P1-V CONCRETE DRIVEWAY PAVING
- PROPOSED LANDSCAPING
- DRAINAGE LINE, SIZE AND FLOW DIRECTION
- SS- SUBSOIL DRAIN
- 2003 DRAINAGE PITS AND REFERENCE
- SS- EXISTING DRAINAGE LINE AND PIT
- GRATED TRENCH DRAIN
- X X EXISTING DRAINAGE TO BE REMOVED
- 13.0- MAJOR CONTOUR AND LEVEL
- - - MINOR CONTOUR
- ROAD CONTROL STRING
- EXPANSION JOINT
- CONTRACTION JOINT
- ISOLATION JOINT

NOTES:

1. PROVIDE ISOLATION JOINT (IJ) AT ALL BUILDING/STRUCTURE INTERFACES
2. PROVIDE DOWELLED EXPANSION JOINT (EJ) AT ALL PAVING INTRIFACES/TIE-INS

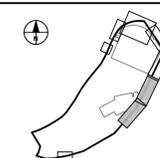
PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

C#	DATE	DESCRIPTION
C8	30.06.2021	FOR APPROVAL
C7	28.06.2021	FOR APPROVAL
C6	06.04.2021	ISSUE FOR CONSTRUCTION
C5	1.12.2020	FOR APPROVAL
C4	11.11.2020	FOR APPROVAL
C3	5.11.2020	FOR APPROVAL
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

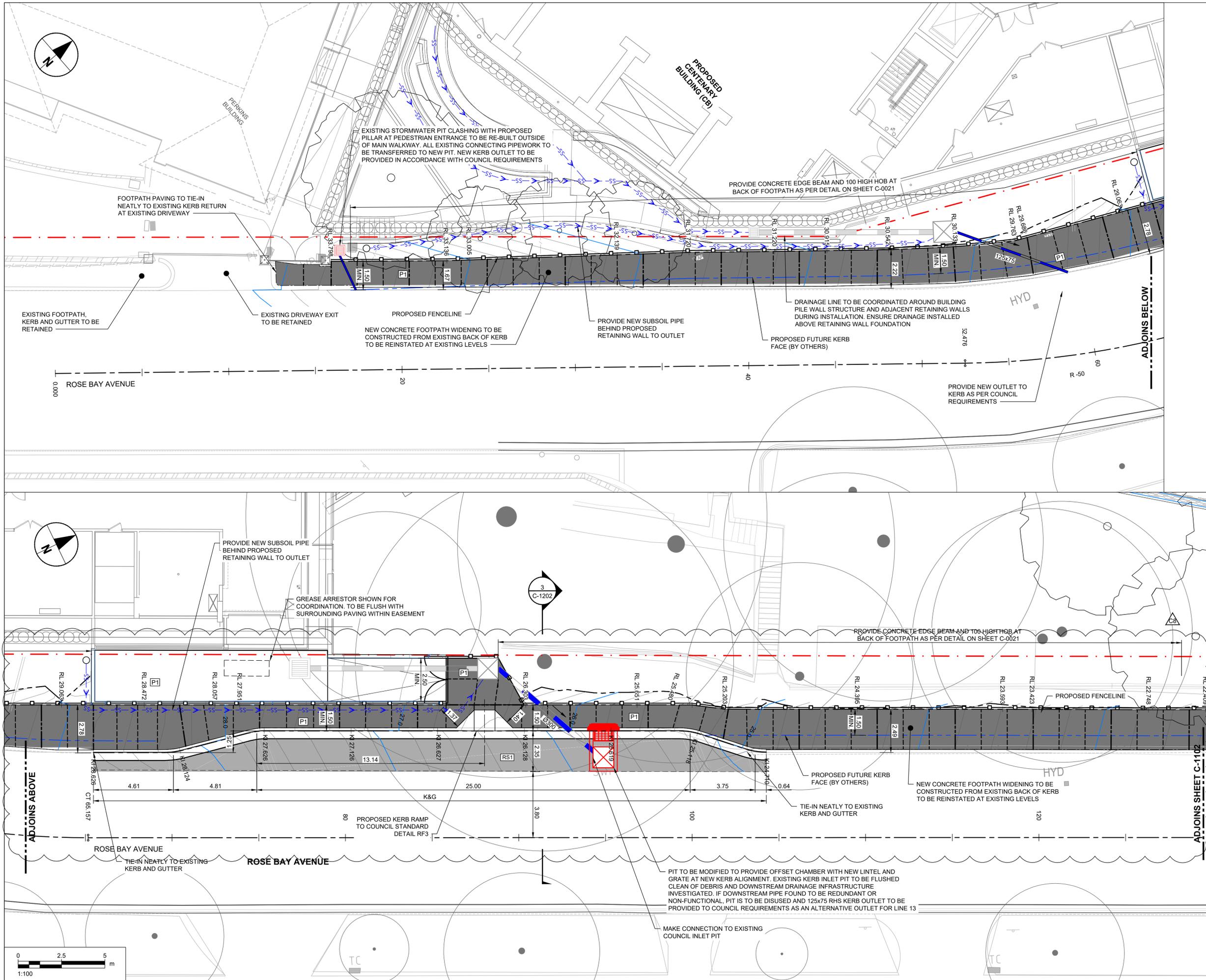
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SHEET TITLE

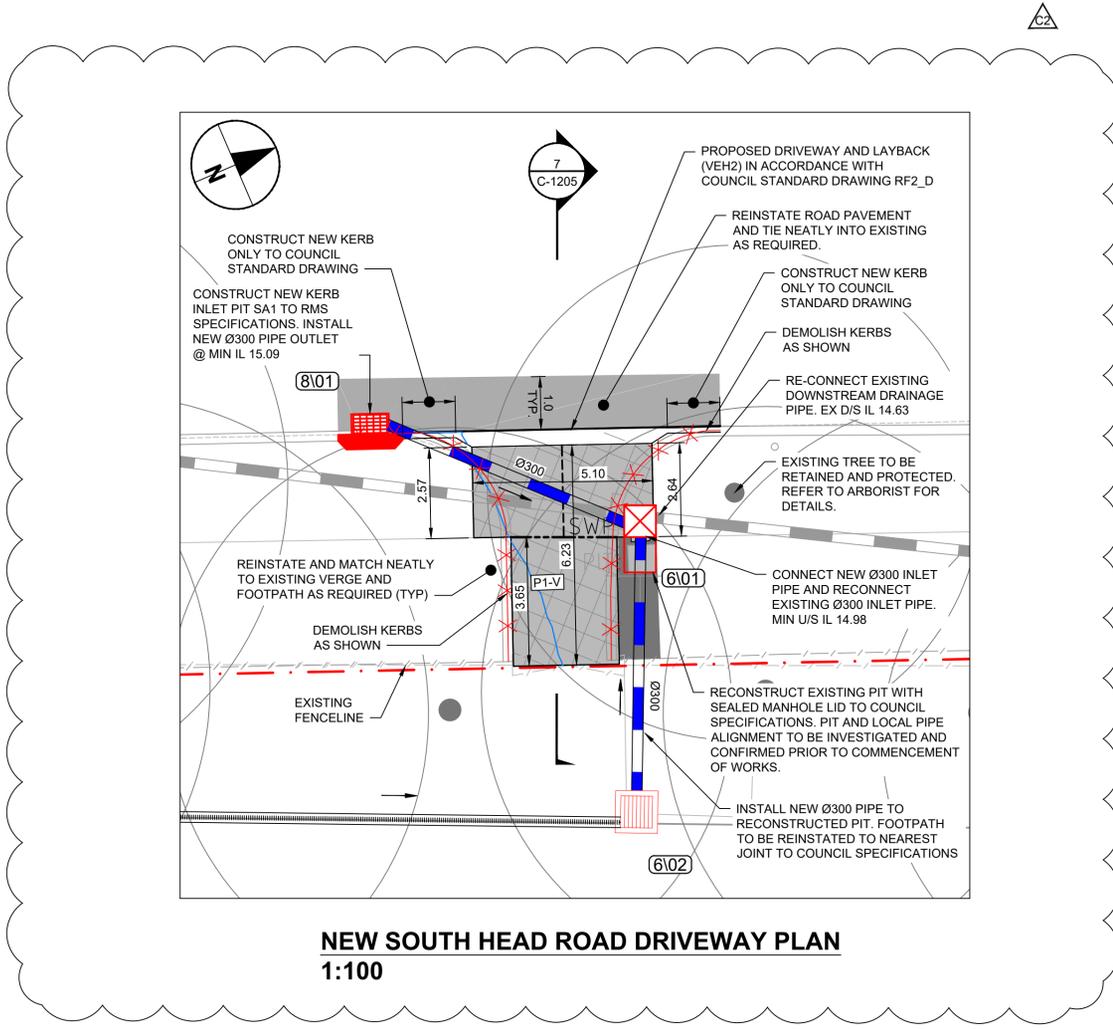
PUBLIC DOMAIN
CIVIL WORKS PLAN
SHEET 3

SHEET NUMBER

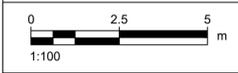
60549969-SHT-01-CR-C-1103



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NEW SOUTH HEAD ROAD DRIVEWAY PLAN
1:100



AECOM

PROJECT
 Cranbrook School
 Public Domain Package

CLIENT
RICHARD CROOKES
CONSTRUCTIONS
 LEVEL 3, 4 BROADCAST WAY
 ARTARMION NSW 2064

CONSULTANT
 AECOM Australia Pty Ltd
 A.B.N 20 093 846 925
 www.aecom.com

LEGEND

- LOT BOUNDARY
- RS1 ASPHALT ROAD REINSTATEMENT
- P1 CONCRETE FOOTPATH PAVING
- P1-V CONCRETE DRIVEWAY PAVING
- PROPOSED LANDSCAPING
- Ø525 DRAINAGE LINE, SIZE AND FLOW DIRECTION
- 2103 DRAINAGE PITS AND REFERENCE
- SS SUBSOIL DRAIN
- EXISTING DRAINAGE LINE AND PIT
- GRATED TRENCH DRAIN
- EXISTING DRAINAGE TO BE REMOVED
- 13.0 MAJOR CONTOUR AND LEVEL
- MINOR CONTOUR
- MC01 ROAD CONTROL STRING
- EJ EXPANSION JOINT
- CJ CONTRACTION JOINT
- IJ ISOLATION JOINT

NOTES:

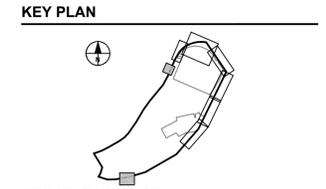
- PROVIDE ISOLATION JOINT (IJ) AT ALL BUILDING/STRUCTURE INTERFACES
- PROVIDE DOWELLED EXPANSION JOINT (EJ) AT ALL PAVING INTRIFACES/TIE-INS

PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
C2	30.06.2021	FOR APPROVAL
C1	28.06.2021	FOR APPROVAL

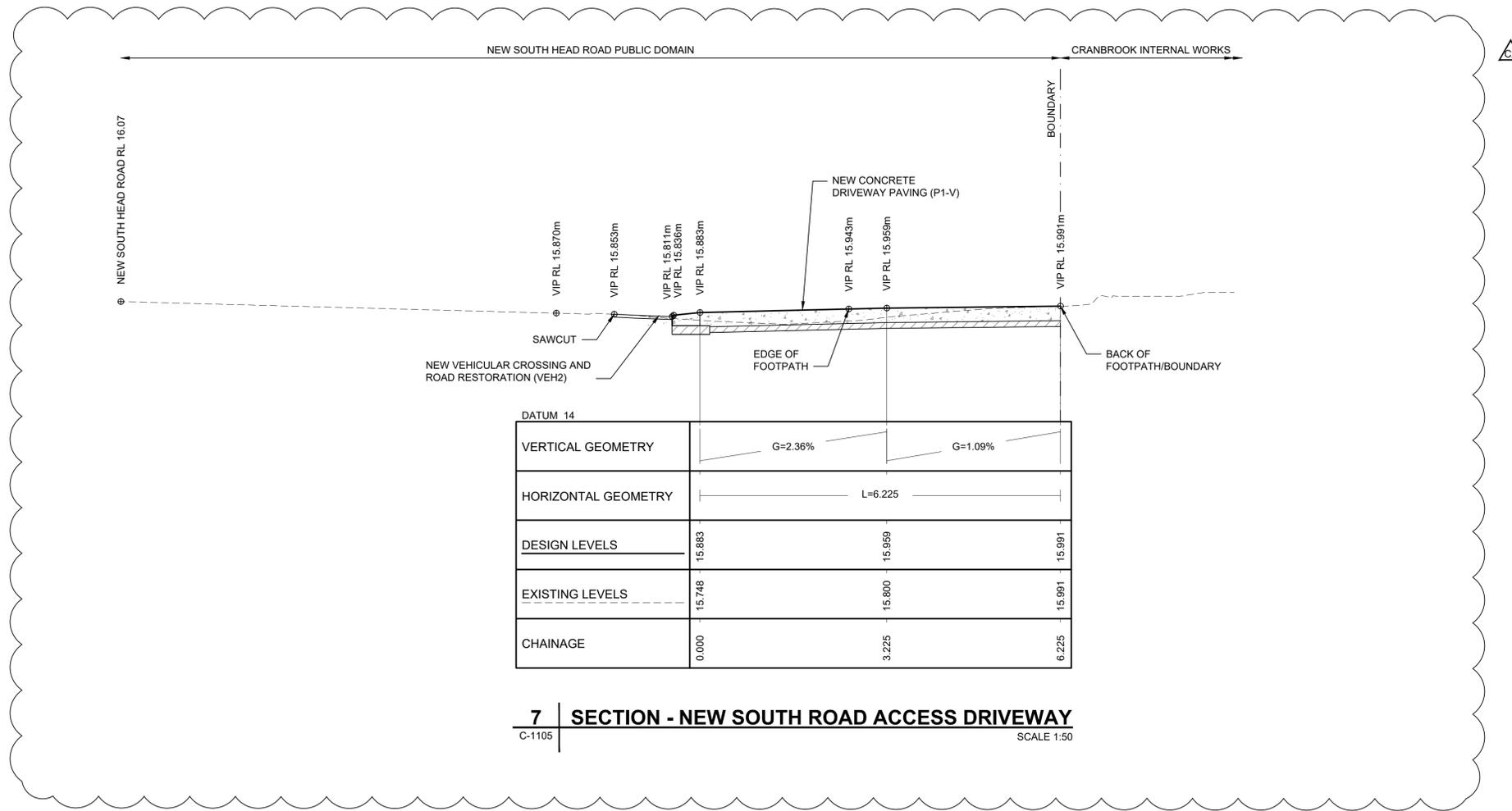


PROJECT NUMBER
 60549969

SHEET TITLE
 PUBLIC DOMAIN
 CIVIL WORKS PLAN
 SHEET 5

SHEET NUMBER
 60549969-SHT-01-CR-C-1105

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7 SECTION - NEW SOUTH ROAD ACCESS DRIVEWAY
 C-1105 SCALE 1:50

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PROJECT MANAGEMENT INITIALS

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DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
C2	30.06.2021	FOR APPROVAL
C1	28.06.2021	FOR APPROVAL

KEY PLAN

PROJECT NUMBER

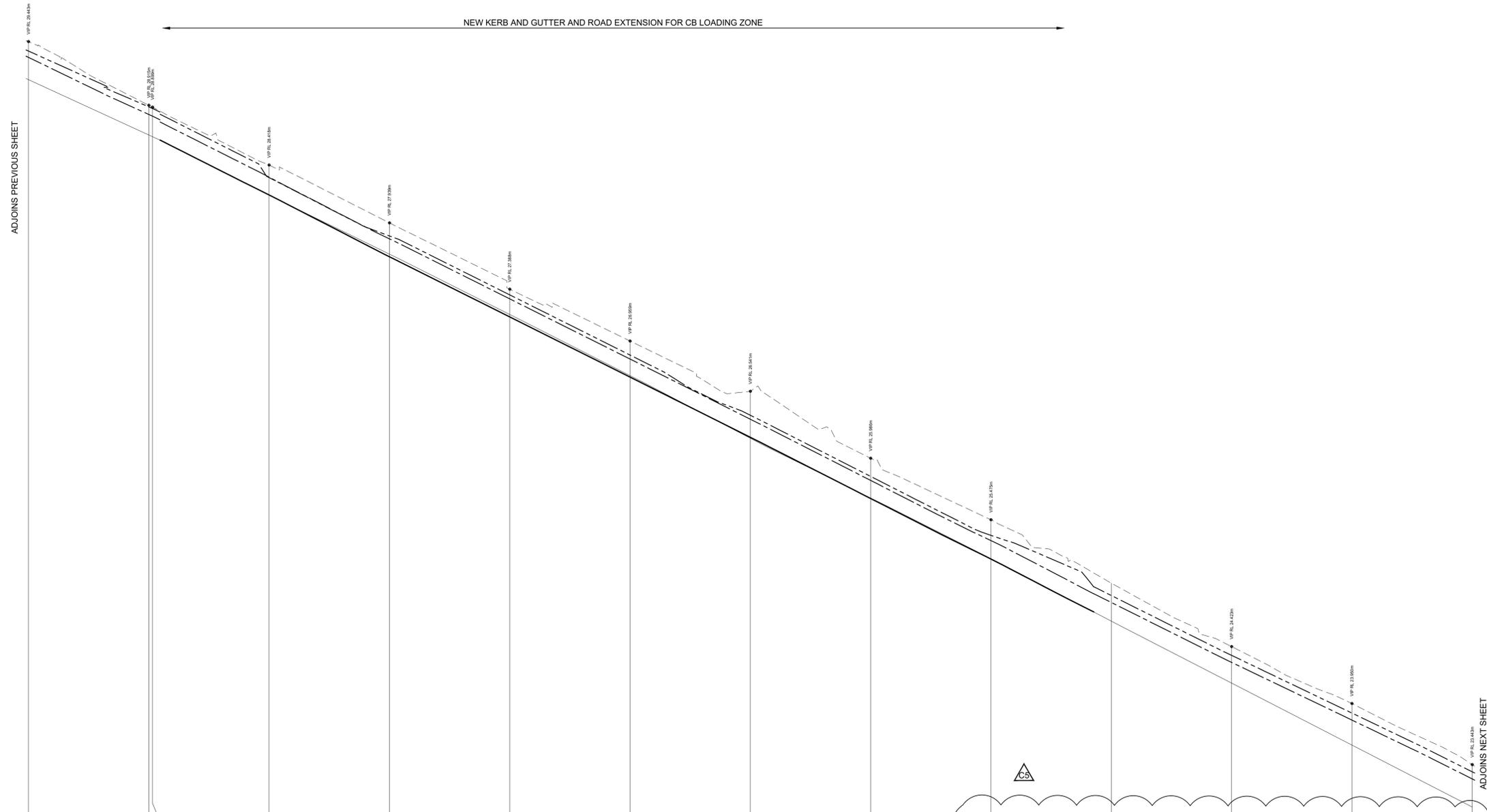
60549969

SHEET TITLE

PUBLIC DOMAIN
 TYPICAL SITE SECTIONS
 SHEET 5

SHEET NUMBER

60549969-SHT-01-CR-C-1205



	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000
DATUM 23													
BACK OF FOOTPATH (PR.)	29.365	28.903 28.893	28.315	27.830	27.341	26.842	26.343	25.835	25.345	24.847	24.350	23.871	23.383
BACK OF FOOTPATH (EX.)													
TOP OF KERB (PR.)	29.312	28.829 28.829	28.319	27.806	27.308	26.809	26.310	25.802	25.302	24.789	24.291	23.813	23.324
TOP OF KERB (EX.)	29.336	28.850 28.845	28.358	27.864	27.346	26.851	26.372	25.876	25.356	24.826	24.306	23.813	23.324
KERB INVERT (PR.)		28.671 28.657	28.171	27.658	27.158	26.659	26.160	25.652	25.149	24.635	24.120	23.613	23.106
KERB INVERT (EX.)	29.127	28.671 28.657	28.170	27.680	27.178	26.671	26.152	25.655	25.153	24.635	24.120	23.613	23.106
ROAD CENTRELINE (EX.)	29.443	28.915 28.899	28.416	27.939	27.388	26.959	26.541	26.122	25.703	25.284	24.865	24.446	24.027
CHAINAGE	60.000	65.000 65.157	70.000	75.000	80.000	85.000	90.000	95.000	100.000	105.000	110.000	115.000	120.000

LONGITUDINAL SECTION - ROSE BAY AVENUE
 A1 HORIZONTAL SCALE 1:100
 A1 VERTICAL SCALE 1:20

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PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
C5	28.06.2021	FOR APPROVAL
C4	06.04.2021	ISSUE FOR CONSTRUCTION
C3	5.11.2020	FOR APPROVAL
C2	20.10.2020	DRAFT ISSUE FOR CONSTR.
C1	13.10.2020	DRAFT ISSUE FOR CONSTR.
C0	18.09.2020	DRAFT ISSUE FOR CONSTR.

PROJECT NUMBER

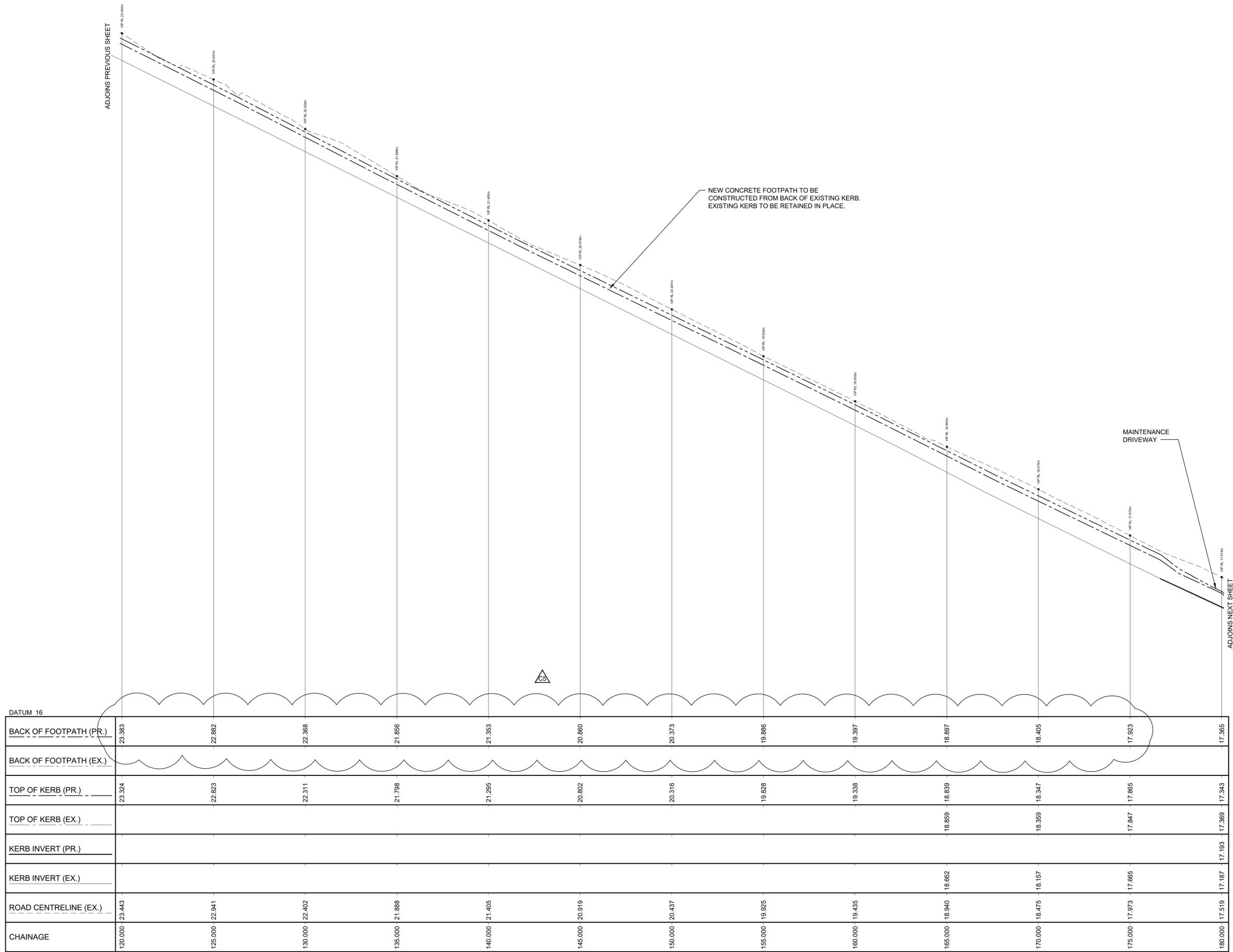
60549969

SHEET TITLE

ROSE BAY AVENUE
 LONGITUDINAL SECTIONS
 SHEET 2

SHEET NUMBER

60549969-SHT-01-CR-C-1252



LONGITUDINAL SECTION - ROSE BAY AVENUE
 A1 HORIZONTAL SCALE 1:100
 A1 VERTICAL SCALE 1:20

PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
C5	28.06.2021	FOR APPROVAL
C4	06.04.2021	ISSUE FOR CONSTRUCTION
C3	5.11.2020	FOR APPROVAL
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C1	13.10.2020	DRAFT ISSUE FOR CONSTR.
C0	18.09.2020	DRAFT ISSUE FOR CONSTR.

PROJECT NUMBER

60549969

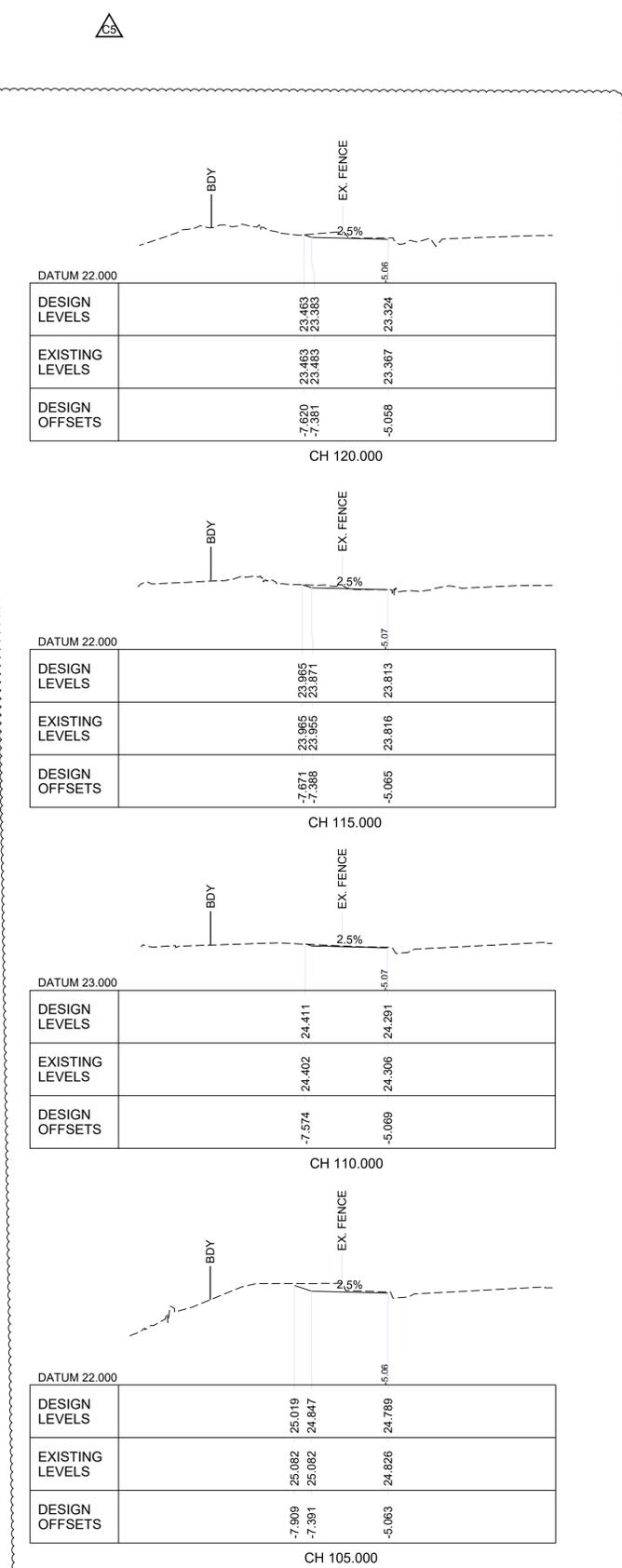
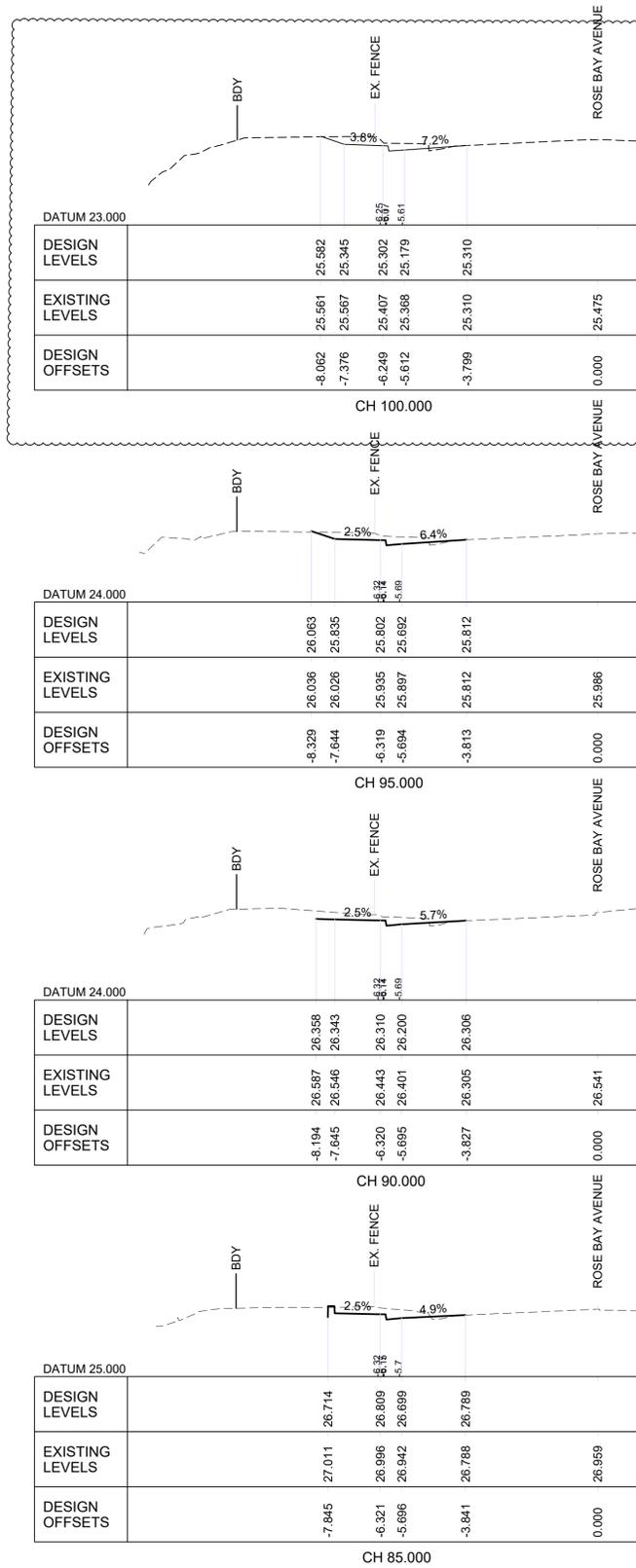
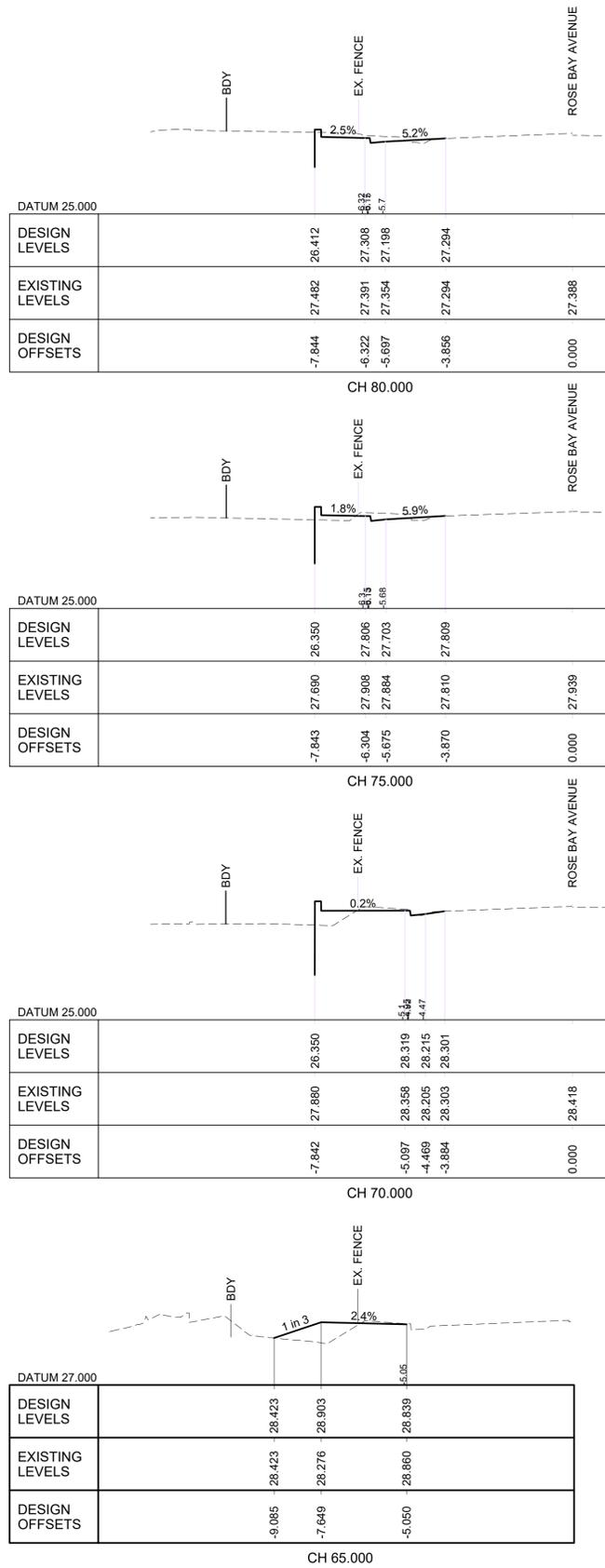
SHEET TITLE

ROSE BAY AVENUE
 LONGITUDINAL SECTIONS
 SHEET 3

SHEET NUMBER

60549969-SHT-01-CR-C-1253

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SCALE BAR (A1)
 0 2.5 5 m
 1:100

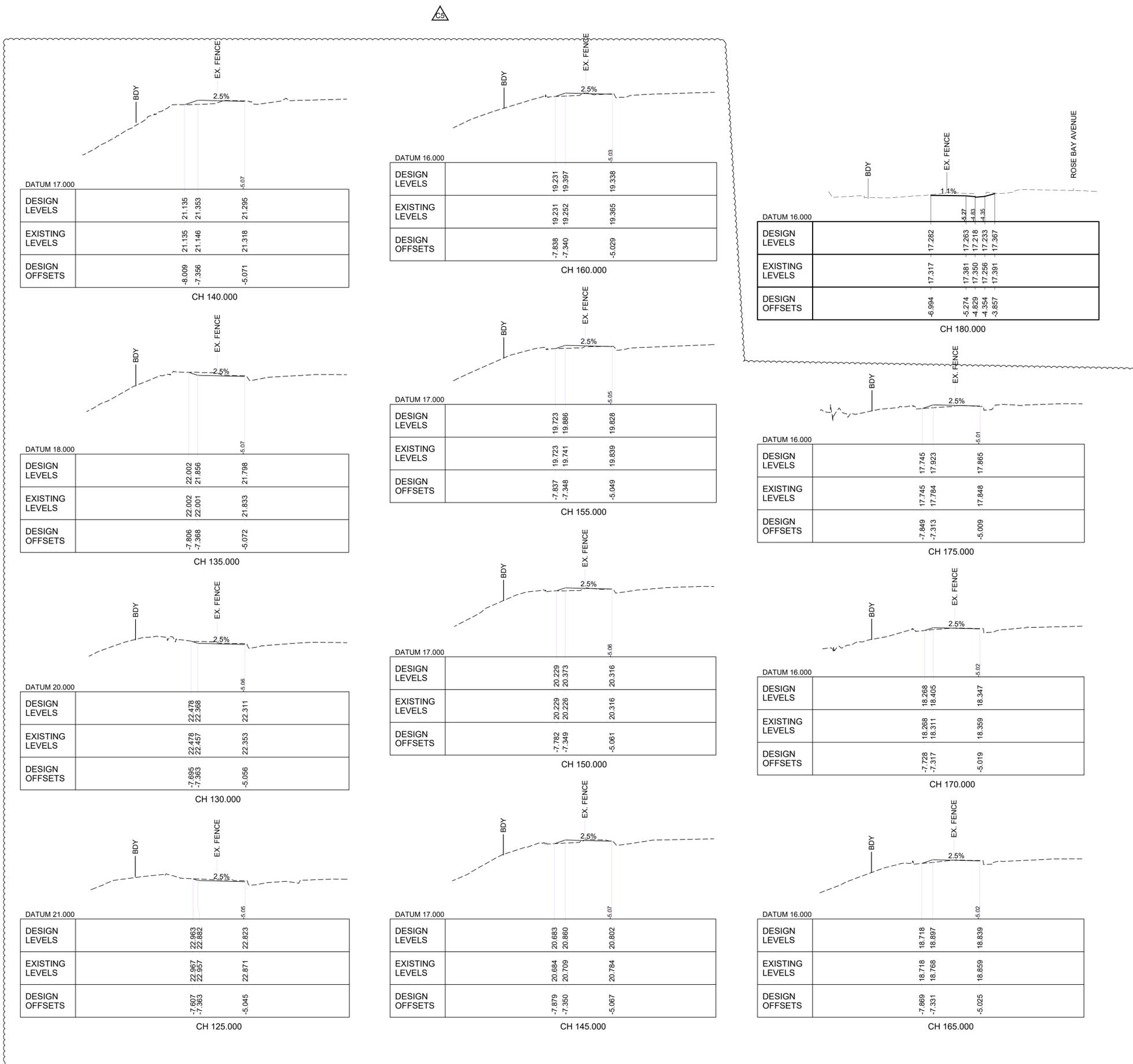
PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

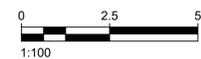
ISSUE/REVISION

C5	28.06.2021	FOR APPROVAL
C4	06.04.2021	ISSUE FOR CONSTRUCTION
C3	5.11.2020	FOR APPROVAL
C2	20.10.2020	DRAFT ISSUE FOR CONSTR.
C1	13.10.2020	DRAFT ISSUE FOR CONSTR.
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SCALE BAR (A1)



PROJECT MANAGEMENT INITIALS

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DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
C5	28.06.2021	FOR APPROVAL
C4	06.04.2021	ISSUE FOR CONSTRUCTION
C3	5.11.2020	FOR APPROVAL
C2	20.10.2020	DRAFT ISSUE FOR CONSTR.
C1	13.10.2020	DRAFT ISSUE FOR CONSTR.
C0	18.09.2020	DRAFT ISSUE FOR CONSTR.

PROJECT NUMBER

60549969

SHEET TITLE

ROSE BAY AVENUE
CROSS SECTIONS
SHEET 3

SHEET NUMBER

60549969-SHT-01-CR-C-1263

DRAINAGE PIT SCHEDULE

PIT NAME	PIT DETAIL NUMBER	DESCRIPTION	EASTING	NORTHING	SETOUT RL	PIT DEPTH	REMARKS
2101	-	EXISTING KERB INLET PIT	338434.570	6250784.661	15.969	0.850	CONNECTION TO EXISTING KERB INLET PIT
2102	-	STORMWATER QUALITY IMPROVEMENT DEVICE (GPT)	338431.376	6250786.035	16.151	0.974	STORMWATER QUALITY IMPROVEMENT DEVICE - ROCLA CDS MODEL NIPPER 0506 OR APPROVED EQUIVALENT
2103	PIT 1	GRATED PIT	338429.752	6250786.733	16.172	0.966	900 SQ. GRATED SURCHARGE PIT
2104	PIT 2	JUNCTION PIT	338427.058	6250780.775	16.495	1.236	
5101	-	EXISTING KERB INLET PIT	338394.360	6250854.365	12.397	0.797	CONNECTION TO EXISTING KERB INLET PIT
5102	-	TRENCH DRAIN PIPE CONNECTION	338387.327	6250849.705	12.496	0.711	ACO INLINE PIT (K3-903S) WITH RISER TO SUIT OUTLET PIPE LEVEL AND DIAMETER
6101	-	EXISTING KERB INLET PIT	338297.582	6250797.757	15.884	1.254	CONNECTION TO EXISTING KERB INLET PIT
6102	PIT 1	GRATED PIT	338303.668	6250795.025	16.248	1.202	900 SQ. OPENING TYP.
7101	-	EXISTING KERB INLET PIT	338321.755	6250843.117	13.866	0.966	CONNECTION TO EXISTING KERB INLET PIT
8101	-	KERB INLET PIT SA1	338290.847	6250792.338	16.056	0.966	NEW KERB INLET PIT SA1 TO REPLICATE INLET CAPACITY OF 6101
12101	-	KERB OUTLET	338375.655	6250694.914	16.056	0.966	OUTLET TO KERB AND GUTTER
13101	PIT 3	MODIFIED KERB INLET PIT	338390.047	6250697.034	25.664	0.894	PROVIDE CONNECTION TO EXISTING COUNCIL KERB INLET PIT. PIT TO BE MODIFIED TO PROVIDE OFFSET CHAMBER WITH NEW LINTEL AND GRATE RELOCATED TO PROPOSED KERB LINE. PROVIDE ACCESS COVER (GATIC 301C CLASS D 600 MIN. CLEAR OPENING) OR APPROVED EQUIVALENT ALIGNED OVER EXISTING STORMWATER LINE



PROJECT

Cranbrook School
Redevelopment

CLIENT

RICHARD CROOKES
CONSTRUCTIONS

LEVEL 3, 4 BROADCAST WAY
ARTARMON NSW 2064

CONSULTANT

AECOM Australia Pty Ltd
A.B.N 20 093 846 925
www.aecom.com

NOTE:

- REFER TO DRAINAGE DETAILS FOR PIT SETOUT POINT REFERENCED IN THIS SCHEDULE
- THIS PIT SCHEDULE SHOWS PITS TO BE CONSTRUCTED AS PART OF EXTERNAL AND PUBLIC DOMAIN WORKS ONLY. REFER SHEET C-0331 FOR PITS TO BE CONSTRUCTED AS PART OF SITE INTERNAL WORKS.

PROJECT MANAGEMENT INITIALS

JW	GS	WH
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

I/R	DATE	DESCRIPTION
C6	28.06.2021	FOR APPROVAL
C5	06.04.2021	ISSUE FOR CONSTRUCTION
C4	11.11.2020	FOR APPROVAL
C3	5.11.2020	FOR APPROVAL
C2	20.10.2020	DRAFT ISSUE FOR CONSTR.
C1	13.10.2020	DRAFT ISSUE FOR CONSTR.

PROJECT NUMBER

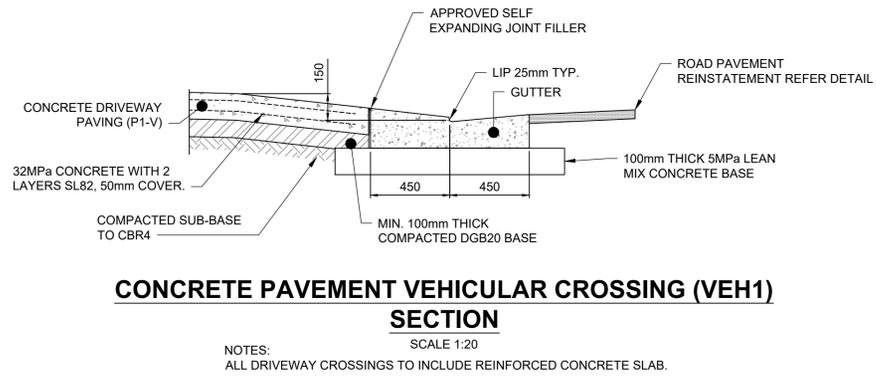
60549969

SHEET TITLE

PUBLIC DOMAIN
DRAINAGE PIT SCHEDULE

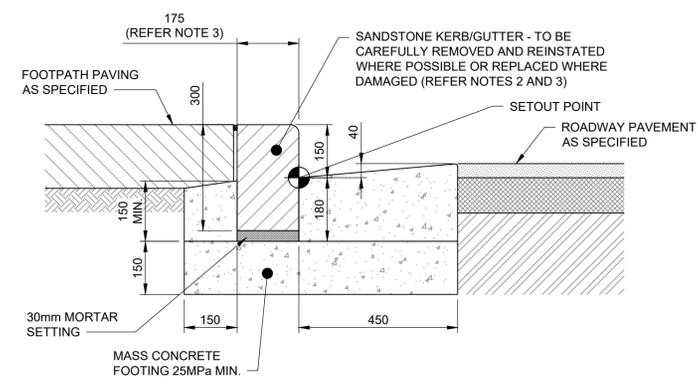
SHEET NUMBER

60549969-SHT-01-CR-C-1331



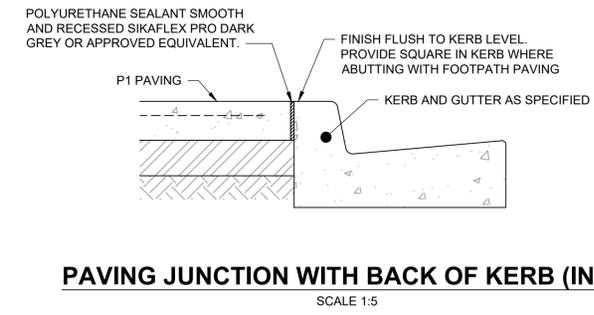
CONCRETE PAVEMENT VEHICULAR CROSSING (VEH1) SECTION
SCALE 1:20

NOTES:
ALL DRIVEWAY CROSSINGS TO INCLUDE REINFORCED CONCRETE SLAB.

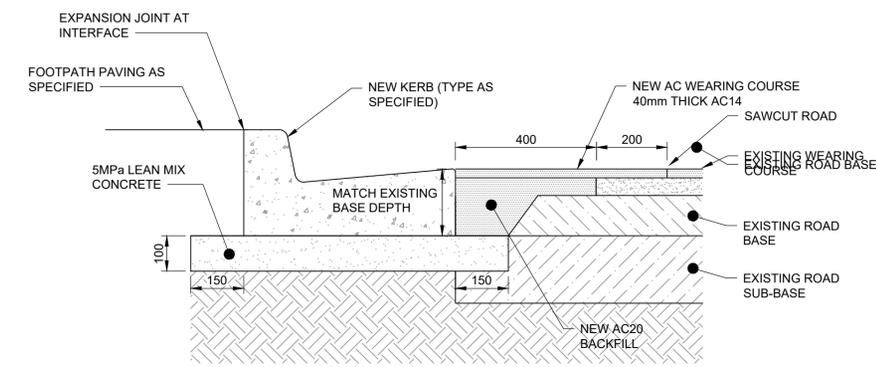


SANDSTONE KERB & CONCRETE GUTTER (K&G)
SCALE 1:10

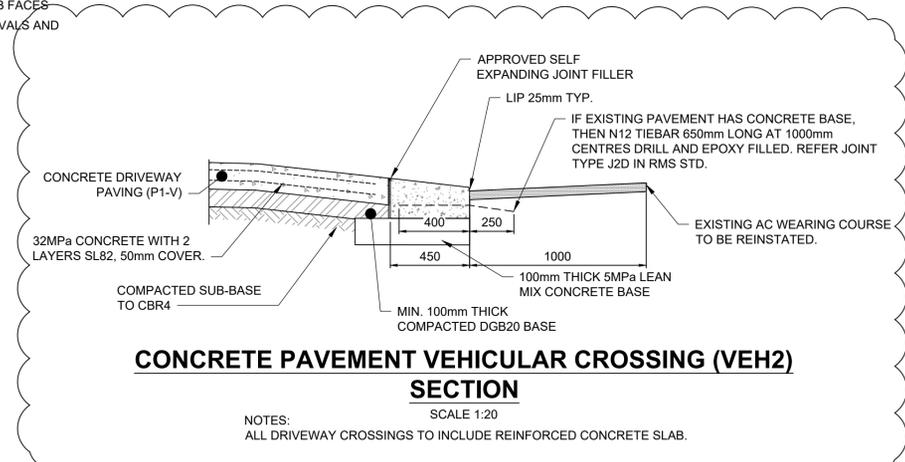
- SANDSTONE KERB NOTES:**
- CARE IS TO BE TAKEN WHEN REMOVING EXISTING SANDSTONE KERB SECTIONS
 - EXISTING SANDSTONE KERBS TO BE RE-USED WHERE POSSIBLE. SUITABILITY OF EXISTING KERBS ARE TO BE CONFIRMED ON SITE BETWEEN THE SUPERINTENDENT, CONTRACTOR AND COUNCIL'S HERITAGE OFFICER.
 - WHERE NEW SANDSTONE KERB IS TO BE SUPPLIED & INSTALLED THE KERB IS TO MATCH EXISTING WIDTHS OF ADJACENT KERB STONES. MAXIMUM KERB LENGTH TO BE 1000mm
 - KERB BASE TO BE LAID ON 150mm THICK DGB20 BASECOURSE. SUBGRADE TO BE PREPARED AND TESTED IN ACCORDANCE WITH THE SPECIFICATION.
 - MORTAR TO BE 3:1 SAND/CEMENT SEMI-DRY MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4MPa AT 7 DAYS
 - CONTRACTOR TO ENSURE KERBS ARE PLACED FLUSH WITH ALL ABUTTING KERB FACES
 - EXPANSION JOINTS IN CONCRETE GUTTER SHALL BE PLACED AT 6m MAX. INTERVALS AND TO ALIGN WITH NEAREST STONE KERB GAPS



PAVING JUNCTION WITH BACK OF KERB (INT2)
SCALE 1:5

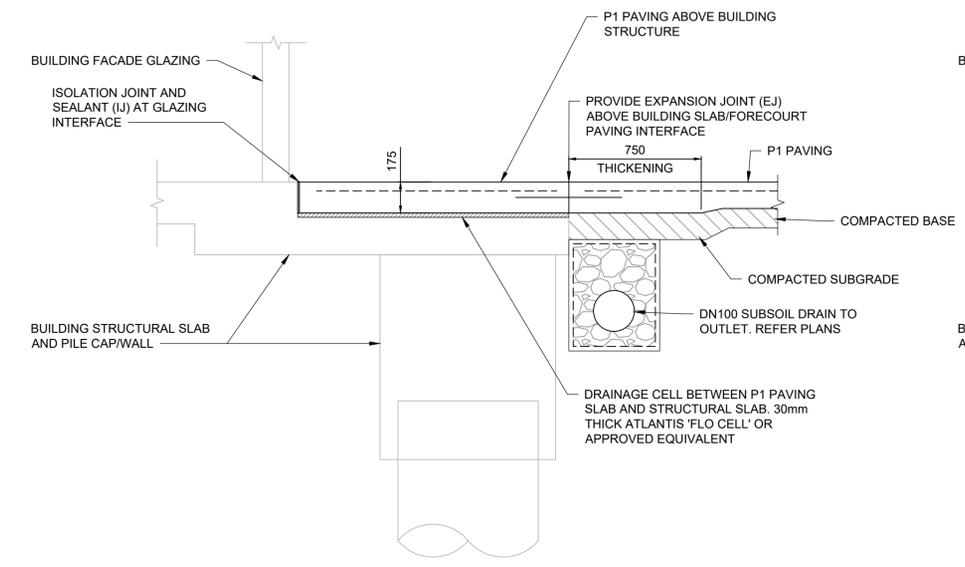


FLEXIBLE PAVEMENT RESTORATION ADJACENT TO NEW KERB (RS1)
SCALE 1:10

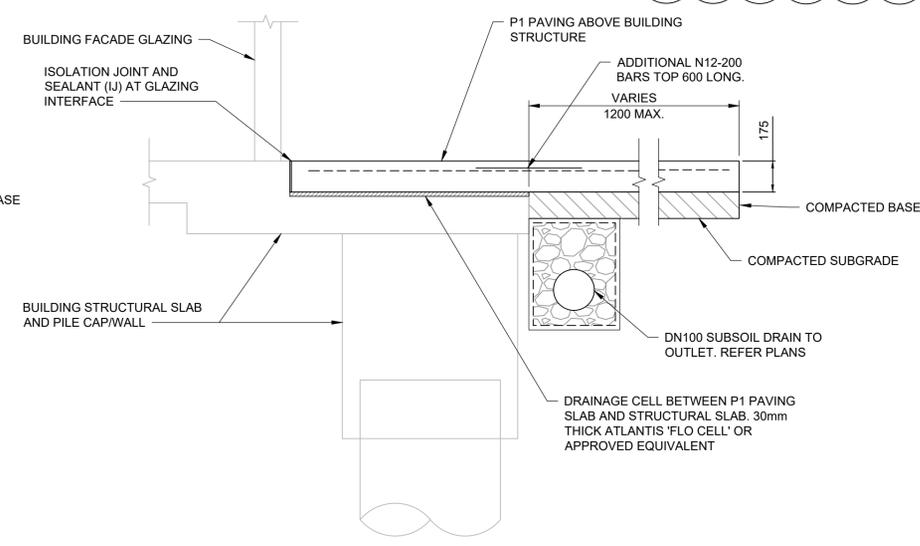


CONCRETE PAVEMENT VEHICULAR CROSSING (VEH2) SECTION
SCALE 1:20

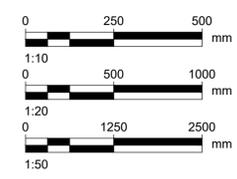
NOTES:
ALL DRIVEWAY CROSSINGS TO INCLUDE REINFORCED CONCRETE SLAB.



AFC GLAZING - PAVING INTERFACE DETAIL 1
SCALE 1:20



AFC GLAZING - PAVING INTERFACE DETAIL 2
SCALE 1:20



AECOM

PROJECT
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PROJECT MANAGEMENT INITIALS

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DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

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KEY PLAN

PROJECT NUMBER
60549969

SHEET TITLE
EXTERNAL WORKS DETAILS

SHEET 1

SHEET NUMBER
60549969-SHT-01-CR-C-1501