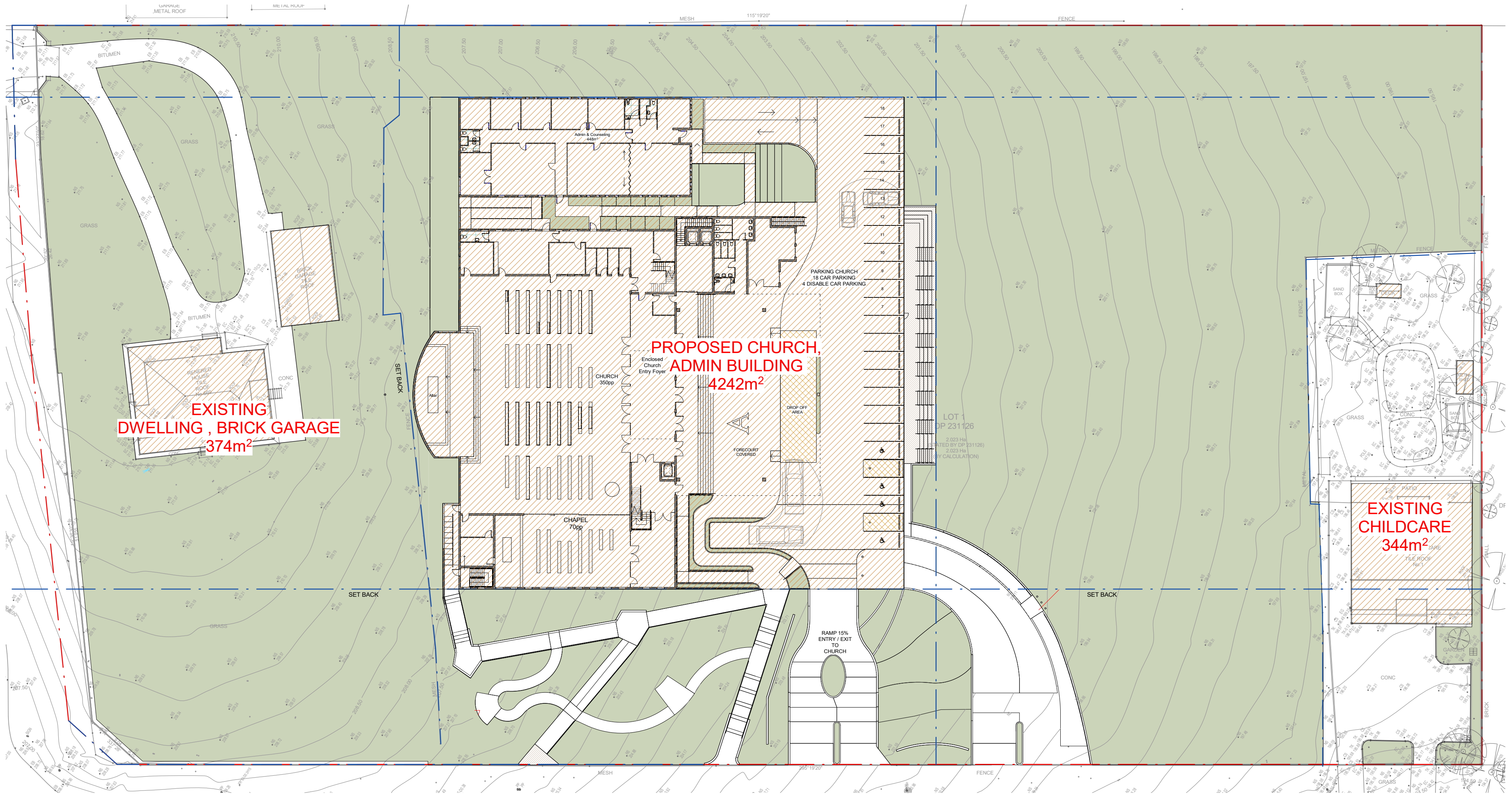




Site Coverage Diagram
& Calculation

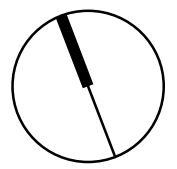
	EXISTING SITE COVERAGE	PROPOSED SITE COVERAGE	TOTAL SITE COVERAGE
EXISTING DWELLING	374m ²	-	374m ²
EXISTING CHILDCARE	344m ²	-	344m ²
PROPOSED CHURCH	-	4242m ²	4242m ²
TOTAL	718m ²	4242m ²	4960m ²

REVISIONS			
ISSUE	DESCRIPTION	DATE	BY
I	UPDATED LAYOUT AS PER CONSULTANTS INSTRUCTIONS	25.09.2020	CF
J	UPDATED LAYOUT AS PER CLIENT AND CONSULTANTS REQUIREMENTS	02.10.2020	CF
K	UPDATED LAYOUT AS PER CLIENT AND CONSULTANTS REQUIREMENTS	30.10.2020	CF
L	UPDATED LAYOUT AS PER COUNCIL EMAIL DATED 06.01.2021	21.01.2021	CF

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SHEET TITLE:
SITE COVERAGE DIAGRAM

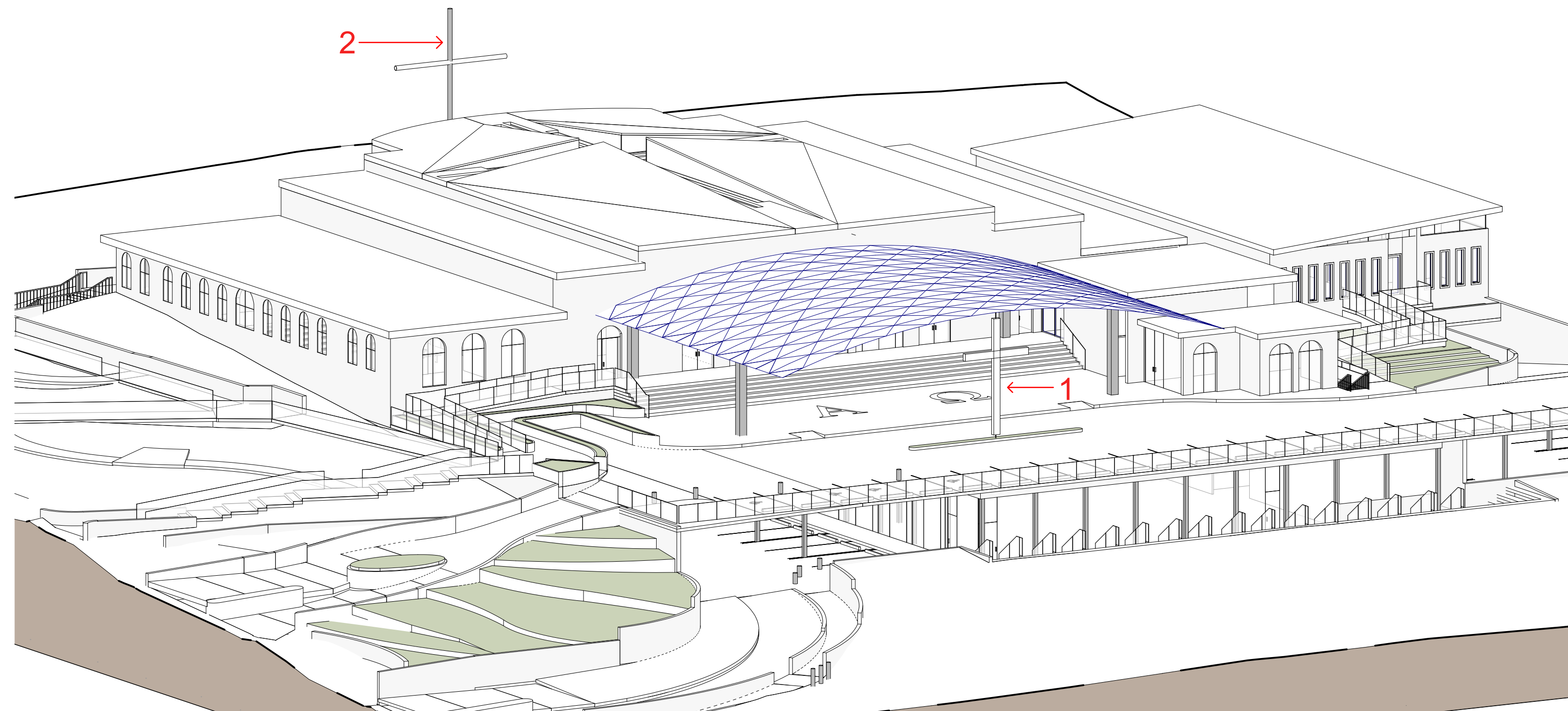
SHEET NO:	DA101
SCALE:	1 : 400

DRAWN BY:
CF

CHECKED BY:
FG

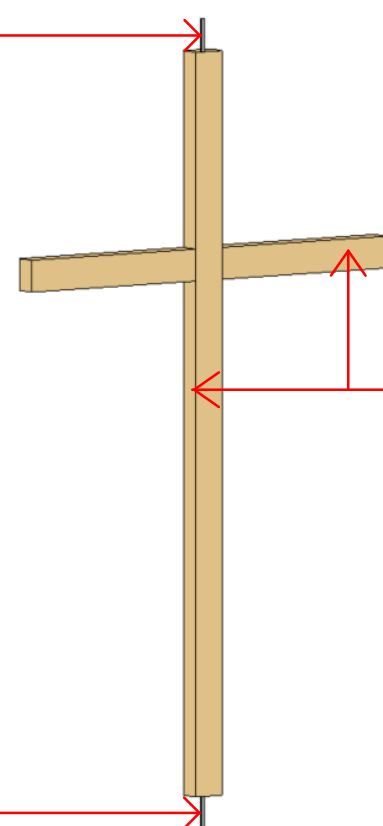
PROJECT DETAIL:
PROPOSED MARONITE CATHOLIC CHURCH
AT 669 OLD NORTHERN ROAD, DURAL

JOB NO:	190965	DATE:	08.07.2019
LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY			REV: L



CROSS 1

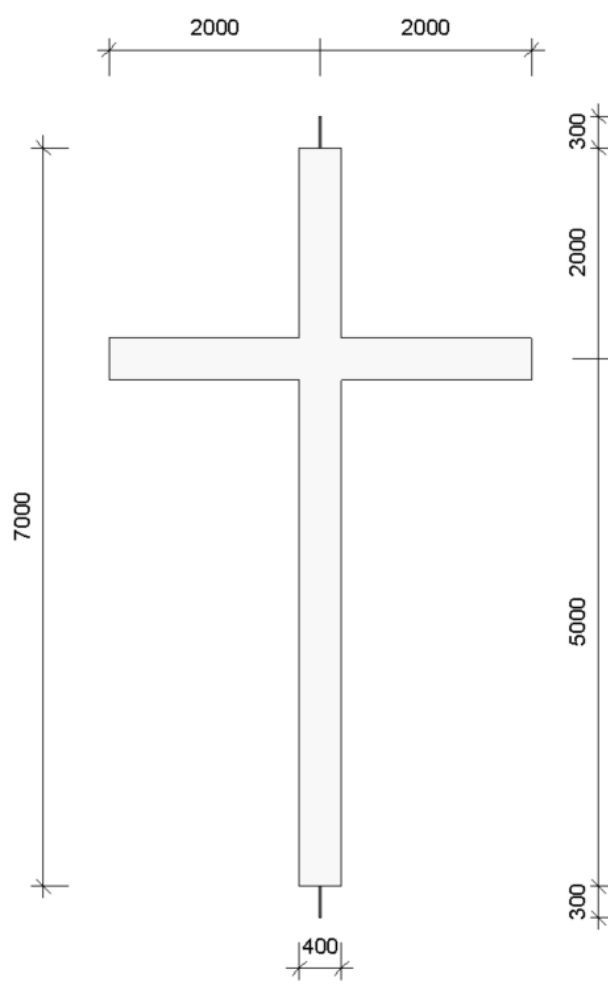
Stainless Steel pin fix



400 x 250 Timber
Clear Glass finish
Natural finish

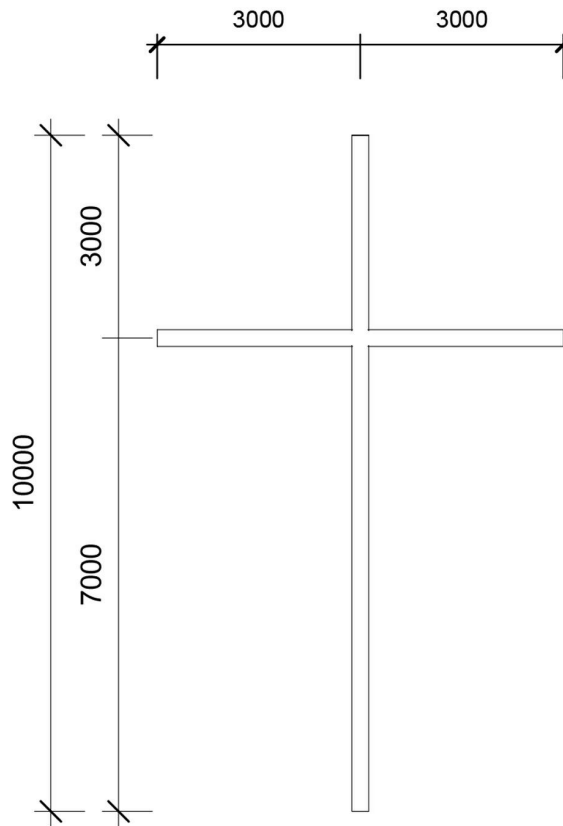
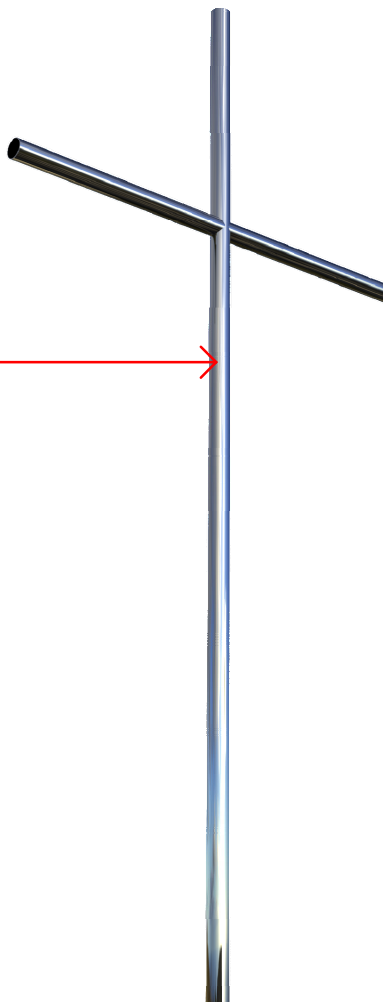
Stainless Steel pin fix

CROSSES DIAGRAM



CROSS 2

Metal Stainless Steel
Chrome Finish
250 Ø



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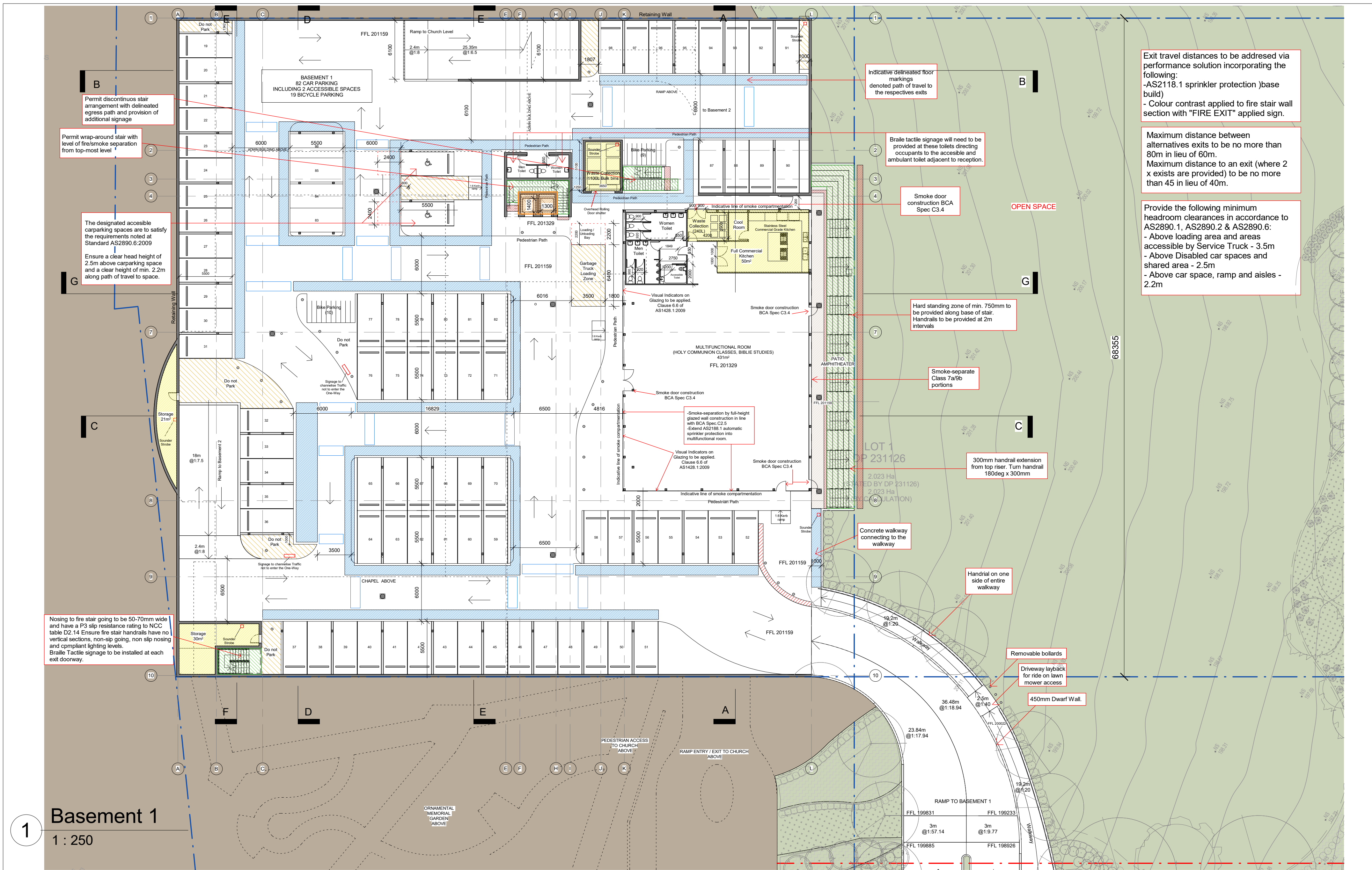


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SHEET TITLE: CROSSES DIAGRAM	
SHEET NO:	DA102
SCALE:	

DRAWN BY: CF
CHECKED BY: FG

PROJECT DETAIL: PROPOSED MARONITE CATHOLIC CHURCH AT 669 OLD NORTHERN ROAD, DURAL			
JOB NO:	190965	DATE:	08.07.2019
LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY			REV: L



1

Basement 1

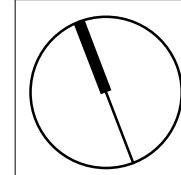
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REVISIONS			
ISSUE	DESCRIPTION	DATE	BY
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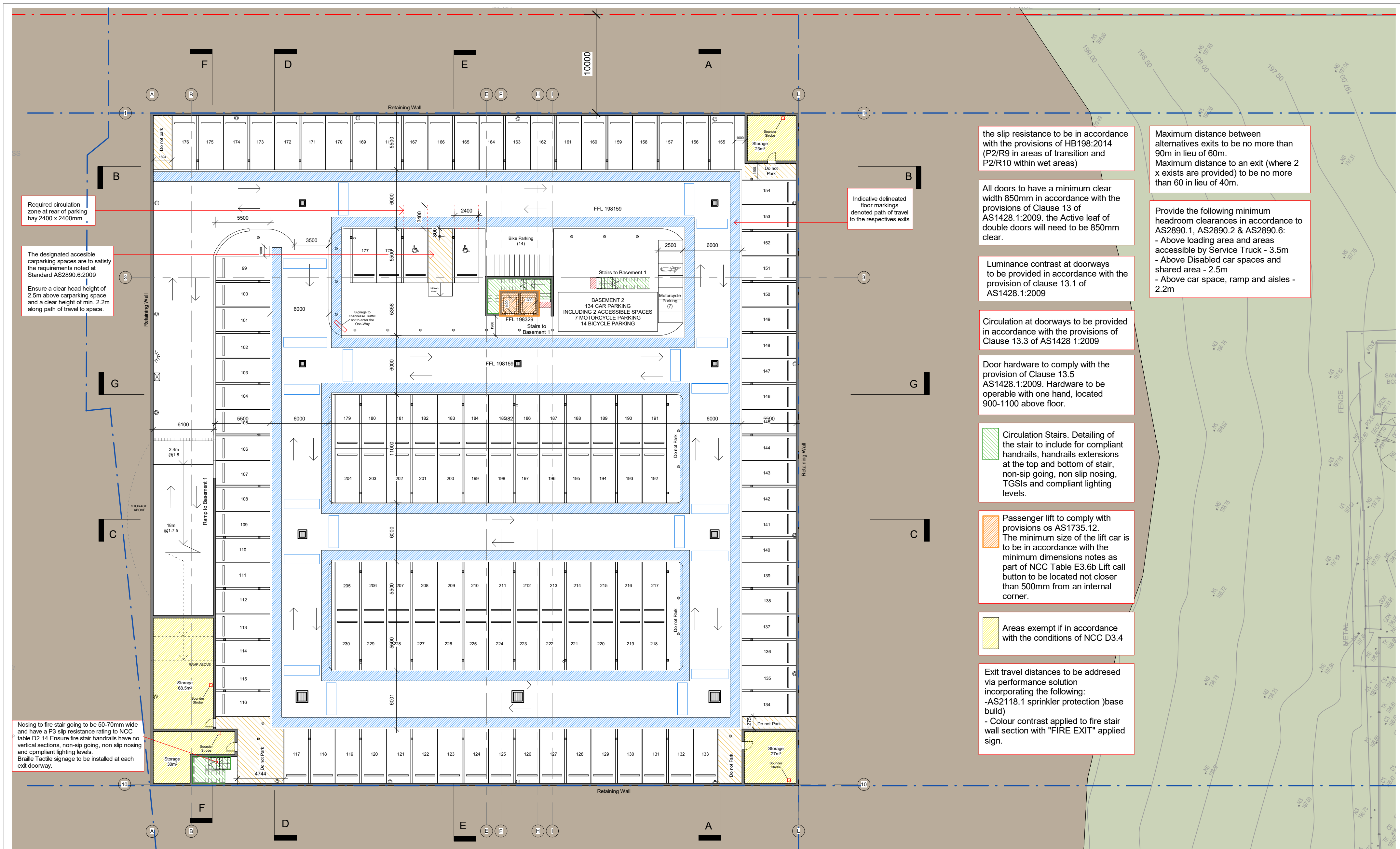
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SHEET TITLE: BASEMENT 1	
SHEET NO:	DA202
SCALE:	1 : 250

DRAWN BY: CF
CHECKED BY: FG

PROJECT DETAIL: PROPOSED MARONITE CATHOLIC CHURCH AT 669 OLD NORTHERN ROAD, DURAL	
JOB NO: 190965	DATE: 08.07.2019
LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY	REV: L



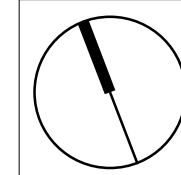
1 Basement 2
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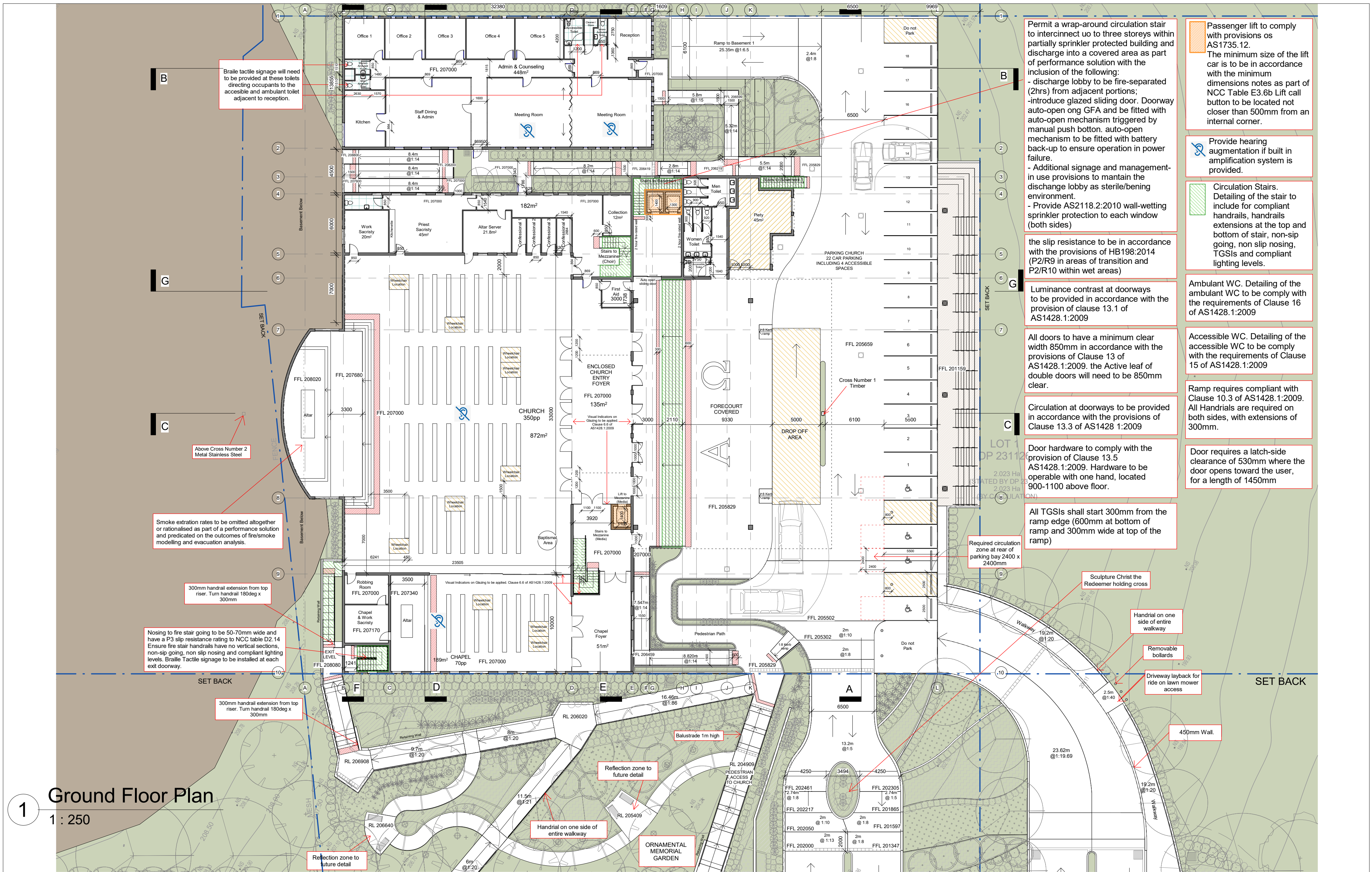
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SHEET TITLE: BASEMENT 2	
SHEET NO:	DA203
SCALE:	1 : 250

DRAWN BY: CF
CHECKED BY: FG

PROJECT DETAIL: PROPOSED MARONITE CATHOLIC CHURCH AT 669 OLD NORTHERN ROAD, DURAL	
JOB NO: 190965	DATE: 08.07.2019
LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY	REV: L



Braille tactile signage will need to be provided at these toilets directing occupants to the accessible and ambulant toilet adjacent to reception.

Above Cross Number 2 Metal Stainless Steel

Smoke extration rates to be omitted altogether or rationalised as part of a performance solution and predicated on the outcomes of fire/smoke modelling and evacuation analysis.

300mm handrail extension from top riser. Turn handrail 180deg x 300mm

Nosing to fire stair going to be 50-70mm wide and have a P3 slip resistance rating to NCC table D2.14. Ensure fire stair handrails have no vertical sections, non-sip going, non slip nosing and compliant lighting levels. Braille Tactile signage to be installed at each exit doorway.

300mm handrail extension from top riser. Turn handrail 180deg x 300mm

Reflection zone to future detail

Handrail on one side of entire walkway

ORNAMENTAL MEMORIAL GARDEN

Reflection zone to future detail

Balustrade 1m high

Required circulation zone at rear of parking bay 2400 x 2400mm

Sculpture Christ the Redeemer holding cross

Handrail on one side of entire walkway

Removable bollards

Driveway layback for ride on lawn mower access

450mm Wall.

Permit a wrap-around circulation stair to interconnect up to three storeys within partially sprinkler protected building and discharge into a covered area as part of performance solution with the inclusion of the following:
- discharge lobby to be fire-separated (2hrs) from adjacent portions;
- introduce glazed sliding door. Doorway auto-open ong GFA and be fitted with auto-open mechanism triggered by manual push button. auto-open mechanism to be fitted with battery back-up to ensure operation in power failure.
- Additional signage and management-in use provisions to maintain the discharge lobby as sterile/bening environment.
- Provide AS2118.2:2010 wall-wetting sprinkler protection to each window (both sides)

the slip resistance to be in accordance with the provisions of HB198:2014 (P2/R9 in areas of transition and P2/R10 within wet areas)

Luminance contrast at doorways to be provided in accordance with the provision of clause 13.1 of AS1428.1:2009

All doors to have a minimum clear width 850mm in accordance with the provisions of Clause 13 of AS1428.1:2009. the Active leaf of double doors will need to be 850mm clear.

Circulation at doorways to be provided in accordance with the provisions of Clause 13.3 of AS1428 1:2009

Door hardware to comply with the provision of Clause 13.5 AS1428.1:2009. Hardware to be operable with one hand, located 900-1100 above floor.

All TGSIs shall start 300mm from the ramp edge (600mm at bottom of ramp and 300mm wide at top of the ramp)

Passenger lift to comply with provisions os AS1735.12.
The minimum size of the lift car is to be in accordance with the minimum dimensions notes as part of NCC Table E3.6b Lift call button to be located not closer than 500mm from an internal corner.

Provide hearing augmentation if built in amplification system is provided.

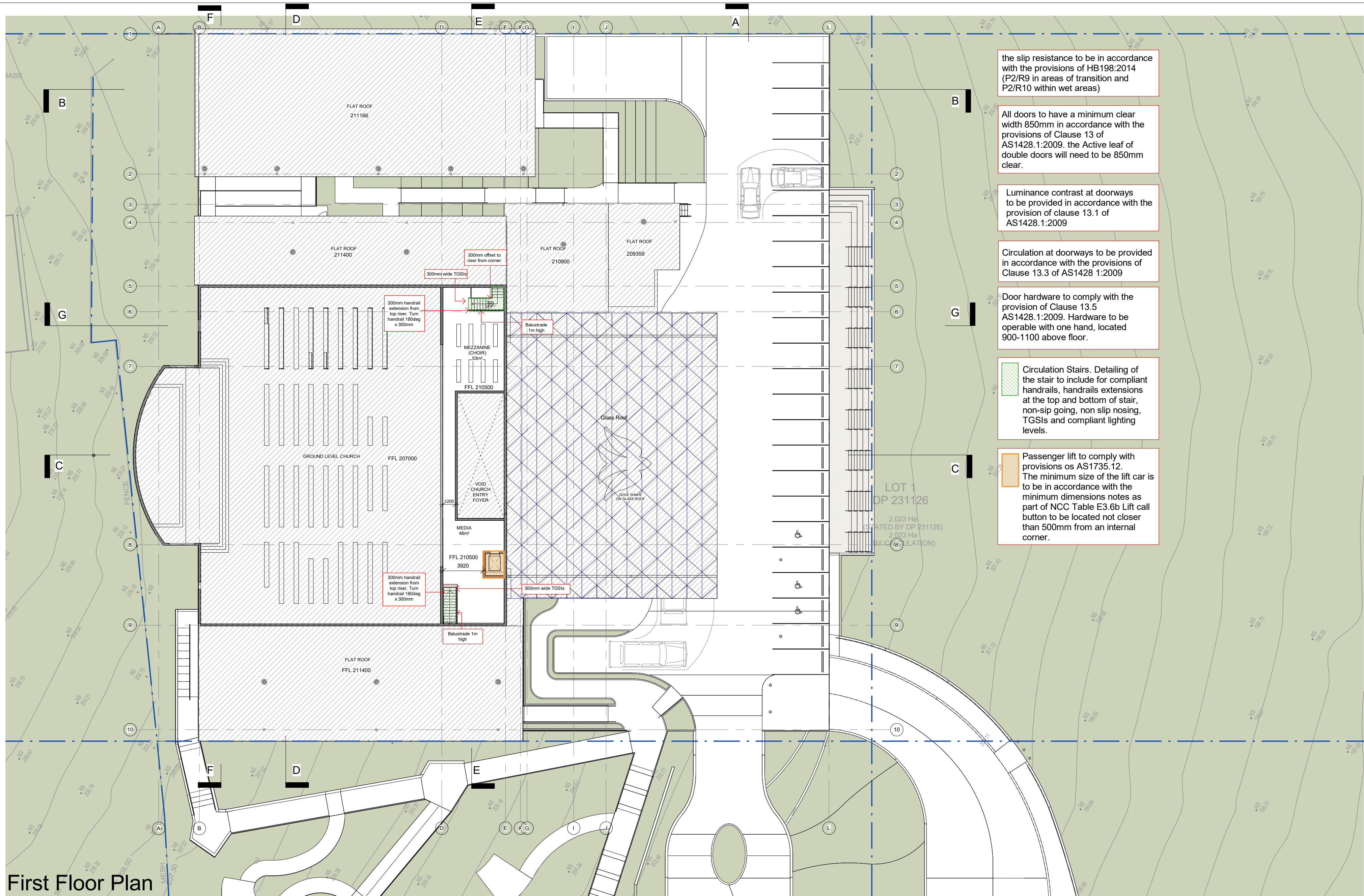
Circulation Stairs. Detailing of the stair to include for compliant handrails, handrails extensions at the top and bottom of stair, non-sip going, non slip nosing, TGSIs and compliant lighting levels.

Ambulant WC. Detailing of the ambulant WC to be comply with the requirements of Clause 16 of AS1428.1:2009

Accessible WC. Detailing of the accessible WC to be comply with the requirements of Clause 15 of AS1428.1:2009

Ramp requires compliant with Clause 10.3 of AS1428.1:2009. All Handrials are required on both sides, with extensions of 300mm.

Door requires a latch-side clearance of 530mm where the door opens toward the user, for a length of 1450mm



the slip resistance to be in accordance with the provisions of HB198:2014 (P2/R9 in areas of transition and P2/R10 within wet areas)

All doors to have a minimum clear width 850mm in accordance with the provisions of Clause 13 of AS1428.1:2009. the Active leaf of double doors will need to be 850mm clear.

Luminance contrast at doorways to be provided in accordance with the provision of clause 13.1 of AS1428.1:2009

Circulation at doorways to be provided in accordance with the provisions of Clause 13.3 of AS1428.1:2009

Door hardware to comply with the provision of Clause 13.5 AS1428.1:2009. Hardware to be operable with one hand, located 900-1100 above floor.

Circulation Stairs. Detailing of the stair to include for compliant handrails, handrails extensions at the top and bottom of stair, non-sip going, non slip nosing, TGSIs and compliant lighting levels.

Passenger lift to comply with provisions os AS1735.12. The minimum size of the lift car is to be in accordance with the minimum dimensions notes as part of NCC Table E3.6b Lift call button to be located not closer than 500mm from an internal corner.

First Floor Plan

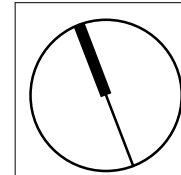
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REVISIONS			
ISSUE	DESCRIPTION	DATE	BY
I	UPDATED LAYOUT AS PER CONSULTANTS INSTRUCTIONS	25.09.2020	CF
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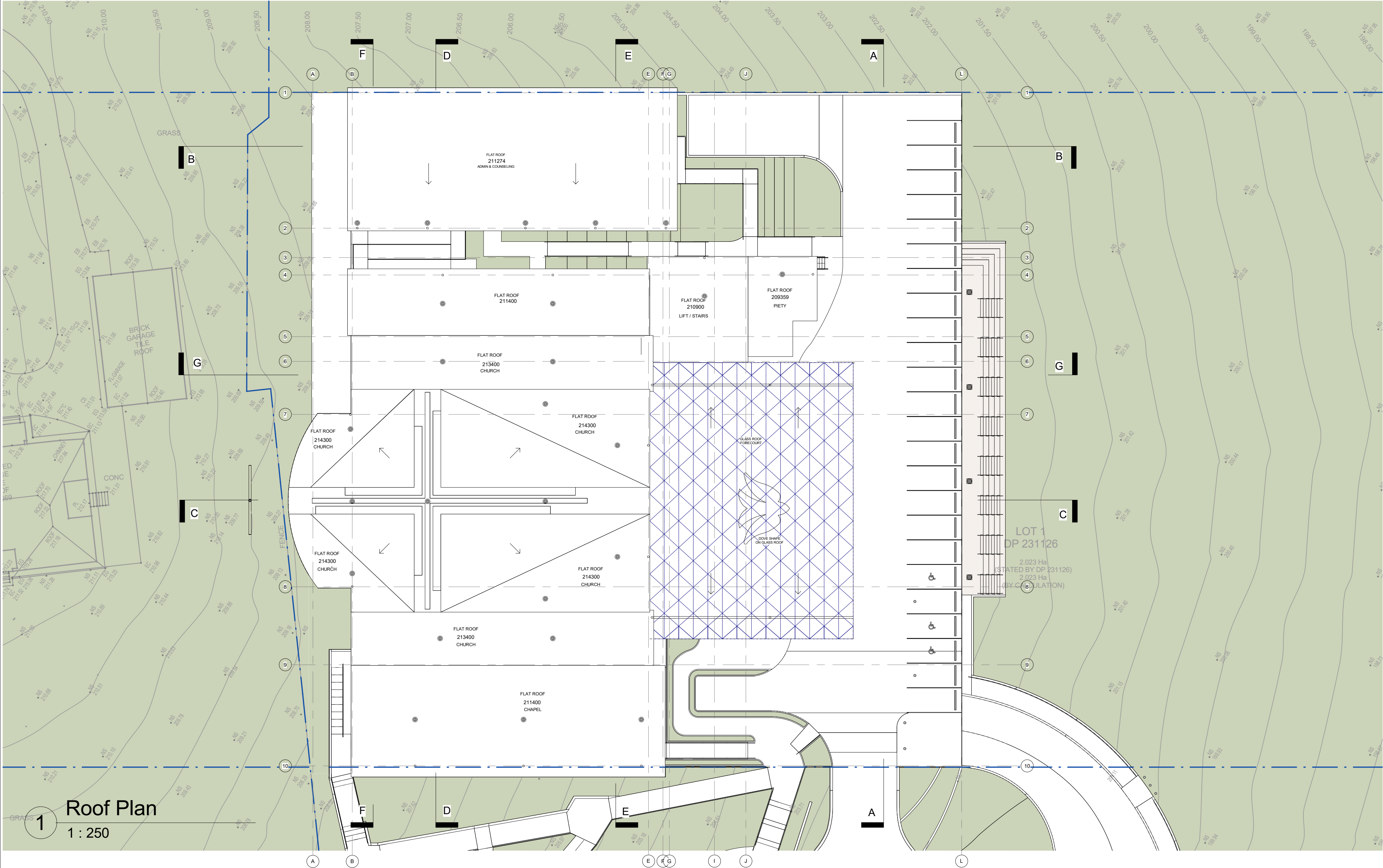
DESIGN CUBICLE PTY LTD
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SHEET TITLE: FIRST FLOOR PLAN	
SHEET NO:	DA205
SCALE:	1 : 250

DRAWN BY: CF
CHECKED BY: FG

PROJECT DETAIL: PROPOSED MARONITE CATHOLIC CHURCH AT 669 OLD NORTHERN ROAD, DURAL			
JOB NO:	190965	DATE:	08.07.2019
LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY		REV: L	

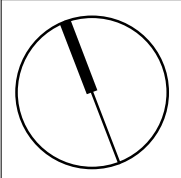


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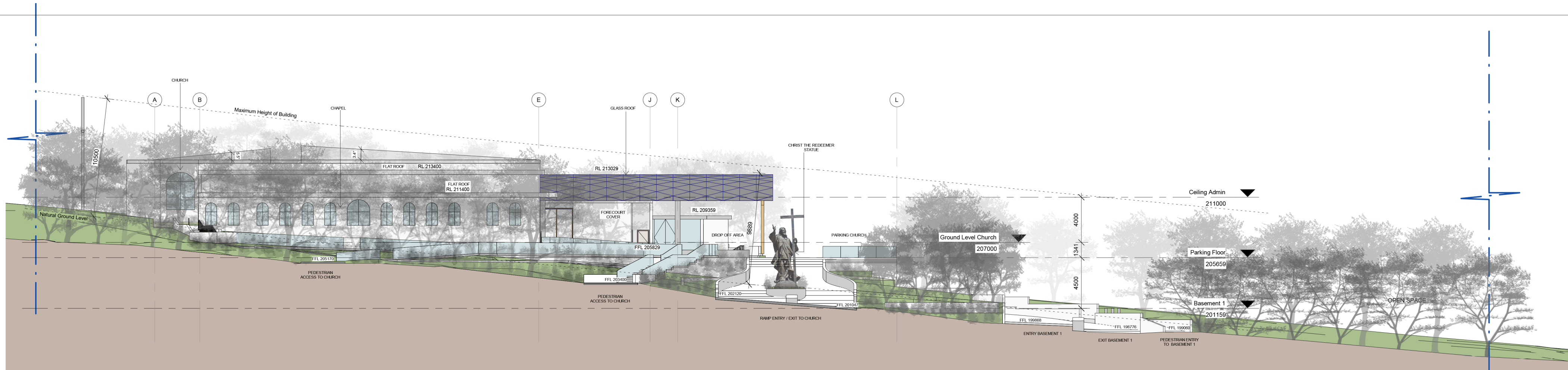
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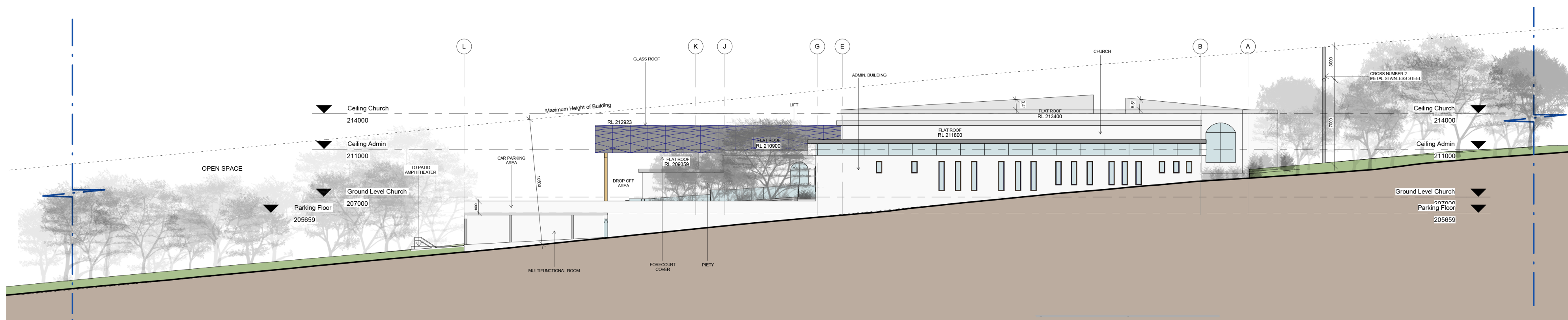
SHEET TITLE: ROOF PLAN	
SHEET NO:	DA206
SCALE:	1 : 250

DRAWN BY: CF
CHECKED BY: FG

PROJECT DETAIL: PROPOSED MARONITE CATHOLIC CHURCH AT 669 OLD NORTHERN ROAD, DURAL			
JOB NO:	190965	DATE:	08.07.2019
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1 Franlee Road Elevation
1 : 250



2 North Elevation
1 : 250

REVISIONS			
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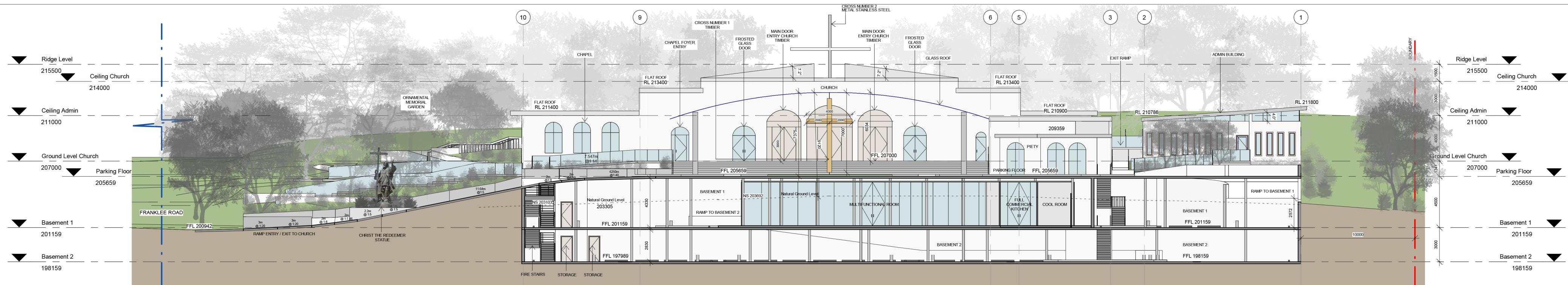


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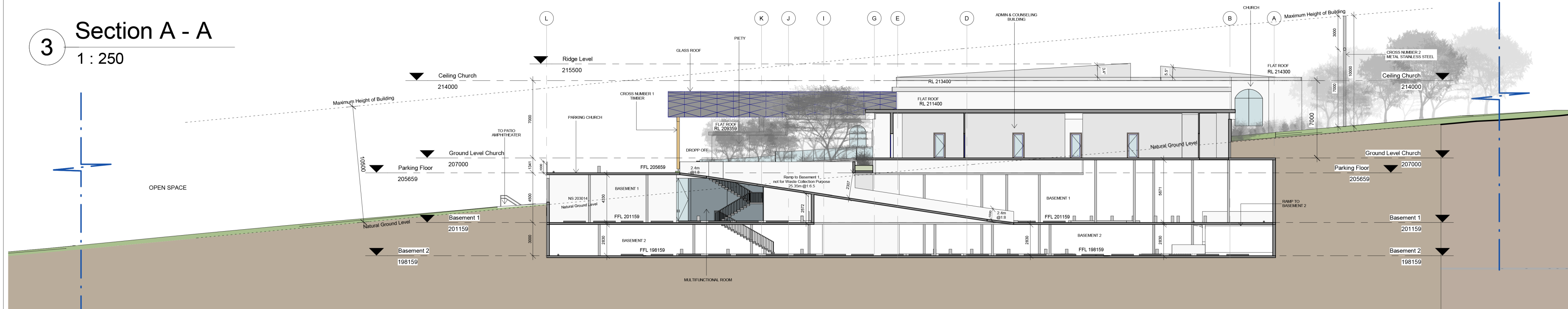
SHEET TITLE: ELEVATIONS	
SHEET NO:	DA300
SCALE:	1 : 250

DRAWN BY: CF
CHECKED BY: FG

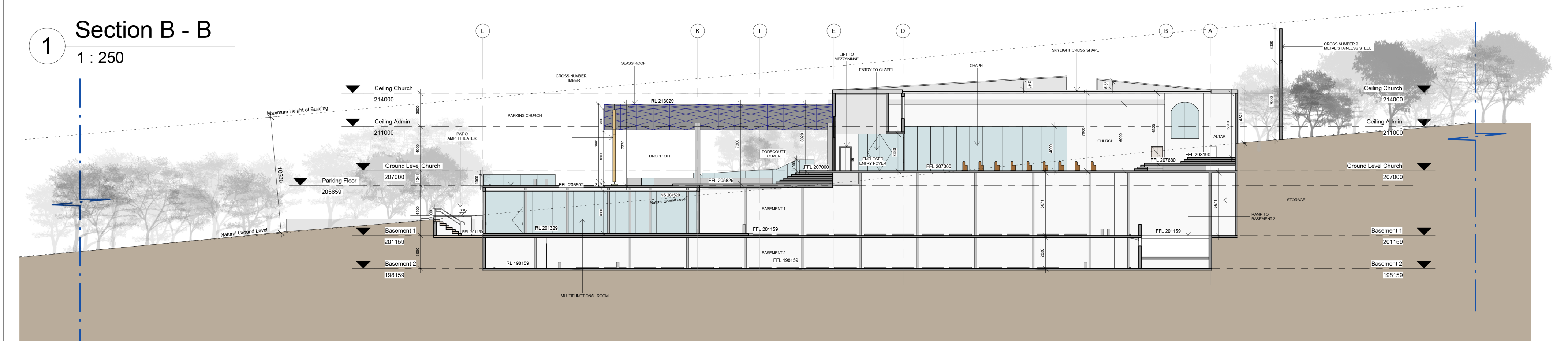
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JOB NO:	190965	DATE:	08.07.2019
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3 Section A - A
1 : 250



1 Section B - B
1 : 250



2 Section C - C
1 : 250

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SHEET TITLE:
SECTIONS 1/3

SHEET NO: DA400
SCALE: 1 : 250

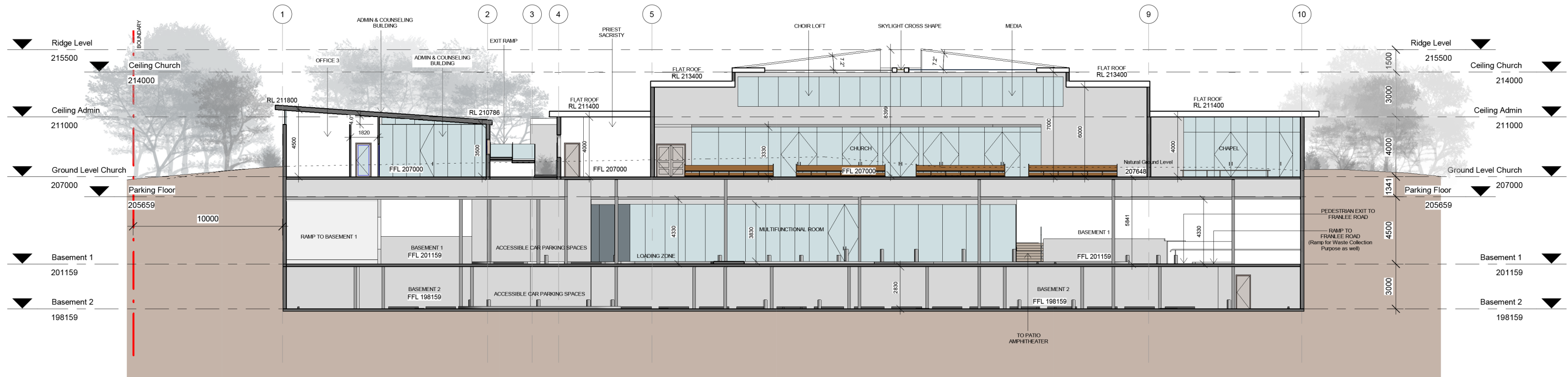
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CF
CHECKED BY:
FG

PROJECT DETAIL:
PROPOSED MARONITE CATHOLIC CHURCH
AT 669 OLD NORTHERN ROAD, DURAL

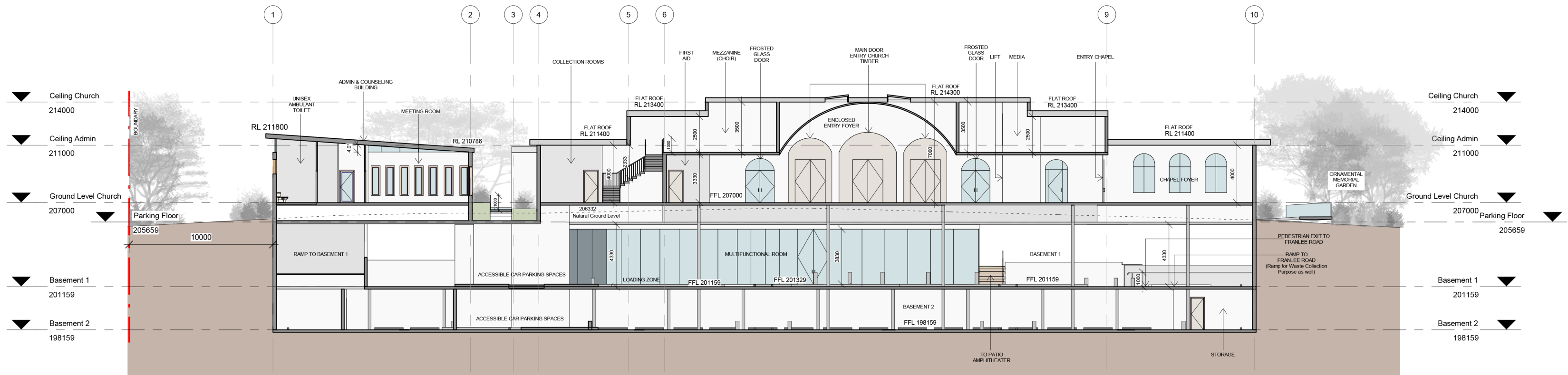
JOB NO: 190965 DATE: 08.07.2019

LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY

REV: L



1 Section D - D
1 : 250



2 Section E - E
1 : 250

REVISIONS			
ISSUE	DESCRIPTION	DATE	BY
I	UPDATED LAYOUT AS PER CONSULTANTS INSTRUCTIONS	25.09.2020	CF
J	UPDATED LAYOUT AS PER CLIENT AND CONSULTANTS REQUIREMENTS	02.10.2020	CF
K	UPDATED LAYOUT AS PER CLIENT AND CONSULTANTS REQUIREMENTS	30.10.2020	CF
L	UPDATED LAYOUT AS PER COUNCIL EMAIL DATED 06.01.2021	21.01.2021	CF

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ABN:

SHEET TITLE:
SECTIONS 2/3

SHEET NO: DA401
SCALE: 1 : 250

DRAWN BY:

CF

CHECKED BY:

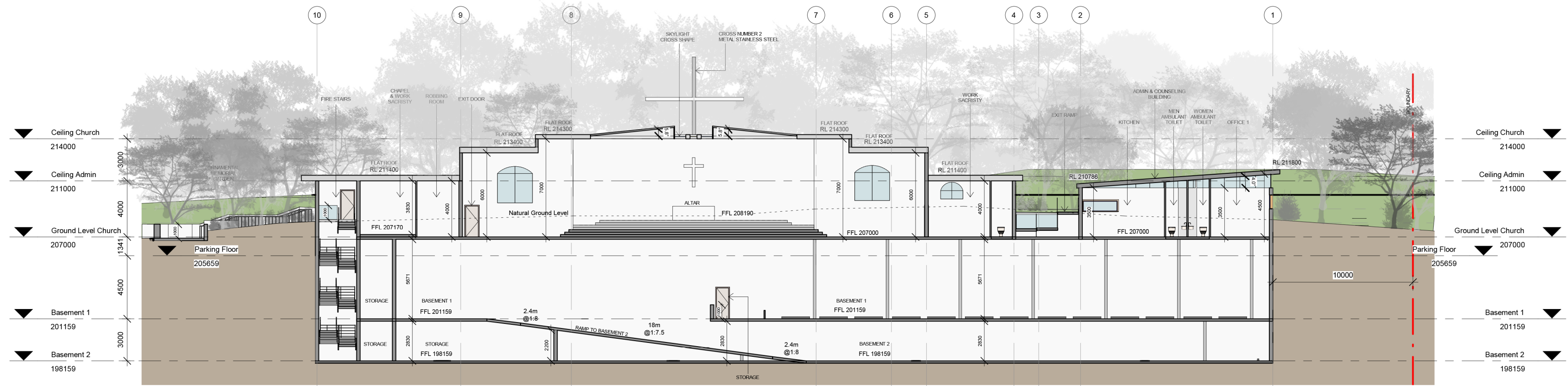
FG

PROJECT DETAIL:
PROPOSED MARONITE CATHOLIC CHURCH
AT 669 OLD NORTHERN ROAD, DURAL

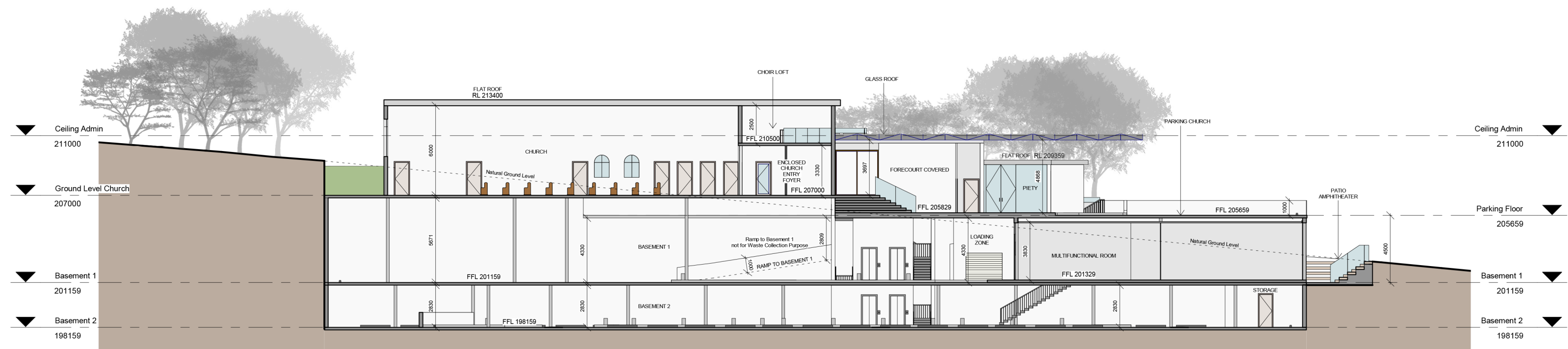
JOB NO: 190965 DATE: 08.07.2019

LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY

REV: L



3 Section F - F
1 : 250



2 Section G - G
1 : 250

REVISIONS			
ISSUE	DESCRIPTION	DATE	BY
I	UPDATED LAYOUT AS PER CONSULTANTS INSTRUCTIONS	25.09.2020	CF
J	UPDATED LAYOUT AS PER CLIENT AND CONSULTANTS REQUIREMENTS	02.10.2020	CF
K	UPDATED LAYOUT AS PER CLIENT AND CONSULTANTS REQUIREMENTS	30.10.2020	CF
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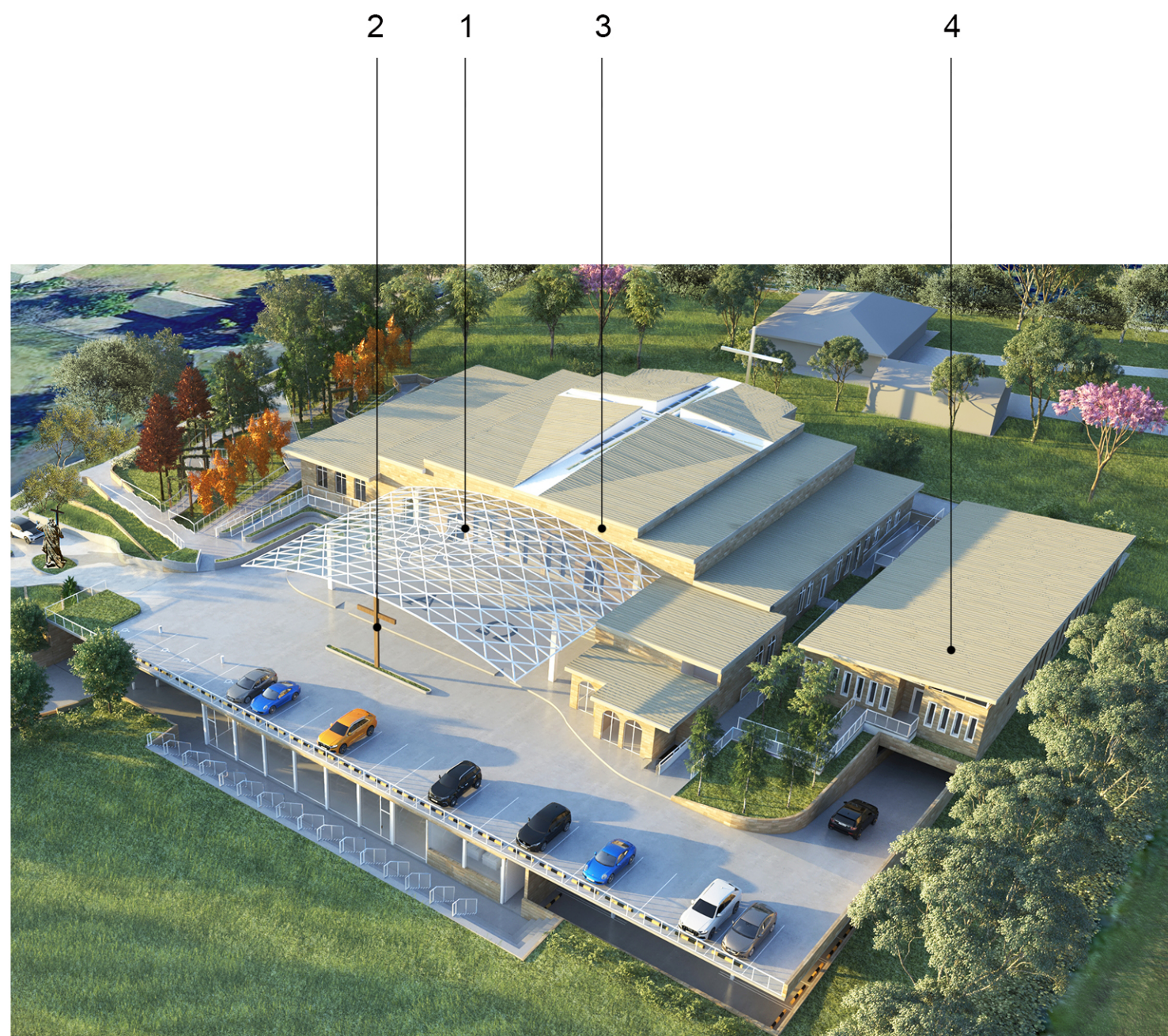
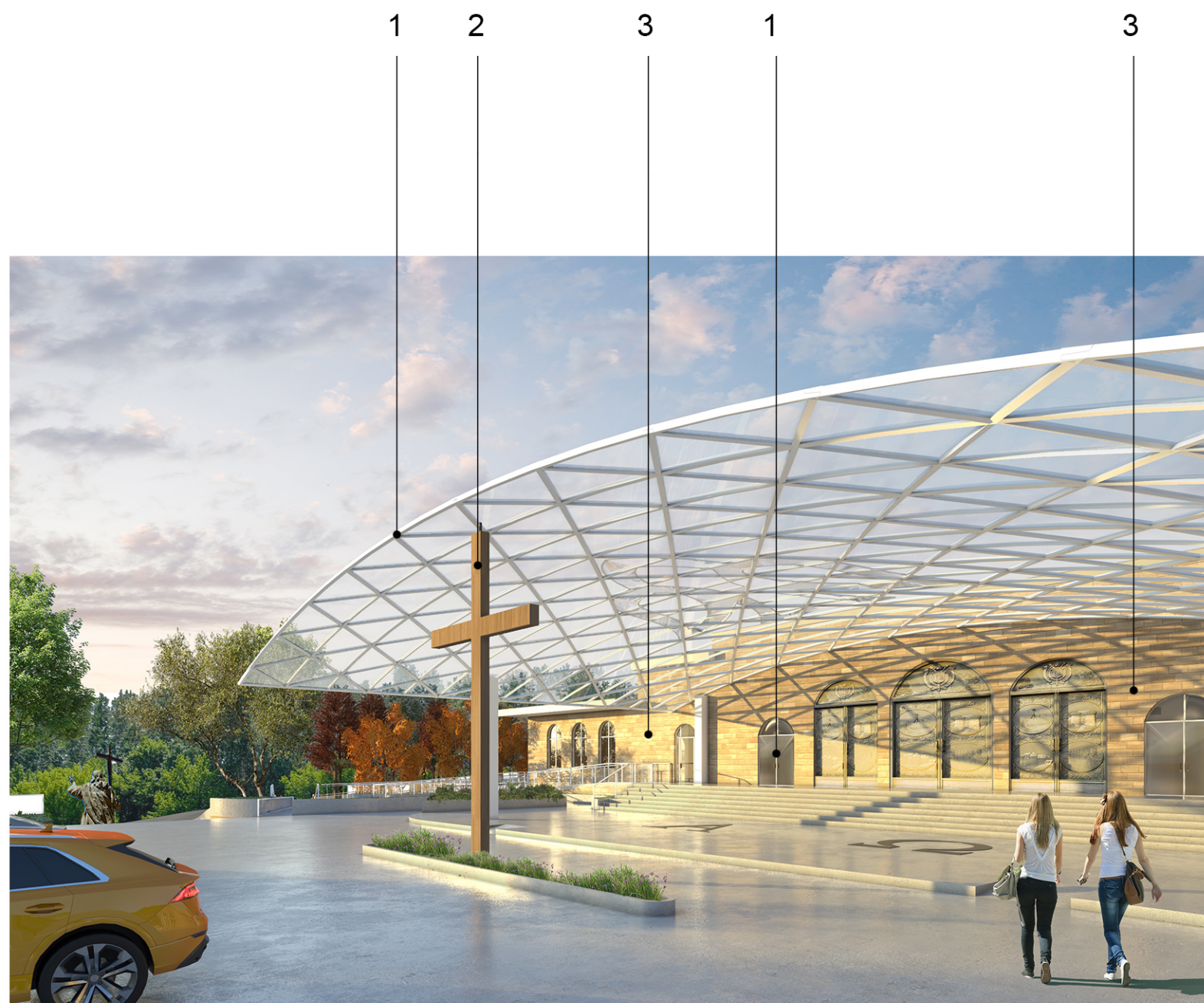


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SHEET TITLE: SECTIONS 3/3	
SHEET NO:	DA402
SCALE:	1 : 250

DRAWN BY: CF
CHECKED BY: FG

PROJECT DETAIL: PROPOSED MARONITE CATHOLIC CHURCH AT 669 OLD NORTHERN ROAD, DURAL			
JOB NO:	190965	DATE:	08.07.2019
LODGE AT: THE COUNCIL OF THE SHIRE OF HORNSBY			REV: L



1. Pearl white colour
Window frames / Canopy frames
(or equivalent)



2. Timber look Aluminium
(or equivalent)

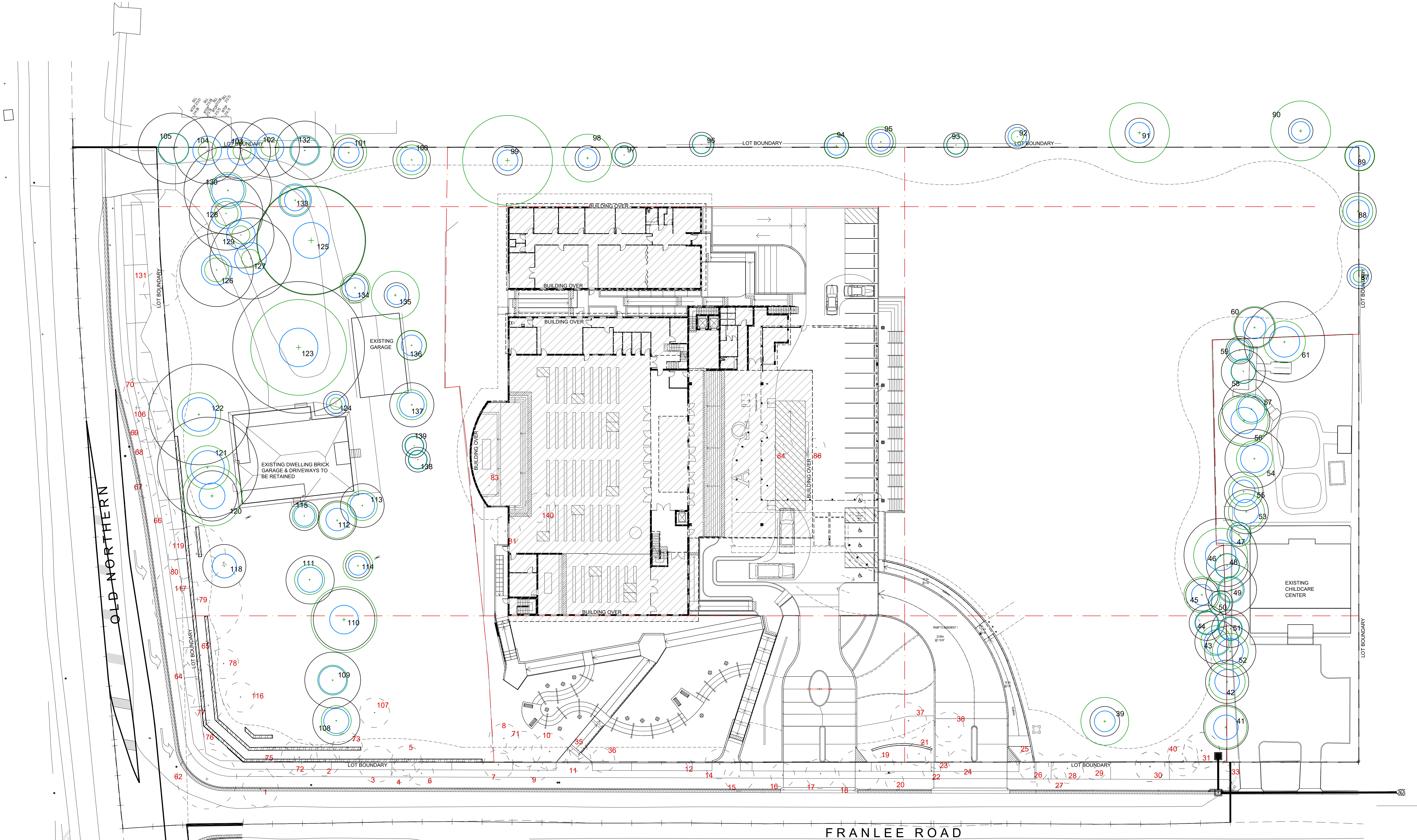


3. Brick render with Sandstone
Cladding at the Entrance
(or equivalent)



4. Colorbond Steel Roof
Evening Haze Colour
(or equivalent)





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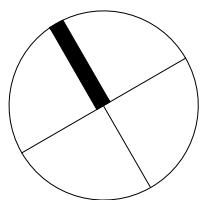
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- LEGEND**
-  Trees to be retained (Refer to Arbolist report)
 -  Trees to be removed (Refer to Arbolist report)
 -  Tree Protection Zone (Refer to Arbolist report)
 -  Structural Root Zone (Refer to Arbolist report)

F	For Approval	EN	RS	25.11.2020
E	For Approval	EN	RS	03.11.2020
D	For Approval	EN	RS	30.10.2020
C	Preliminary	EN	RS	26.10.2020
B	Preliminary	EN	RS	22.10.2020
A	Preliminary	EN	RS	16.10.2020
Issue	Revision Description	Drawn	Check	Date

Key Plan:



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Client:
**CHRIST THE REDEEMER
MARONITE CHURCH**

Project:
**669 OLD NORTHERN ROAD,
DURAL**

Drawing Name:
Tree Management Plan

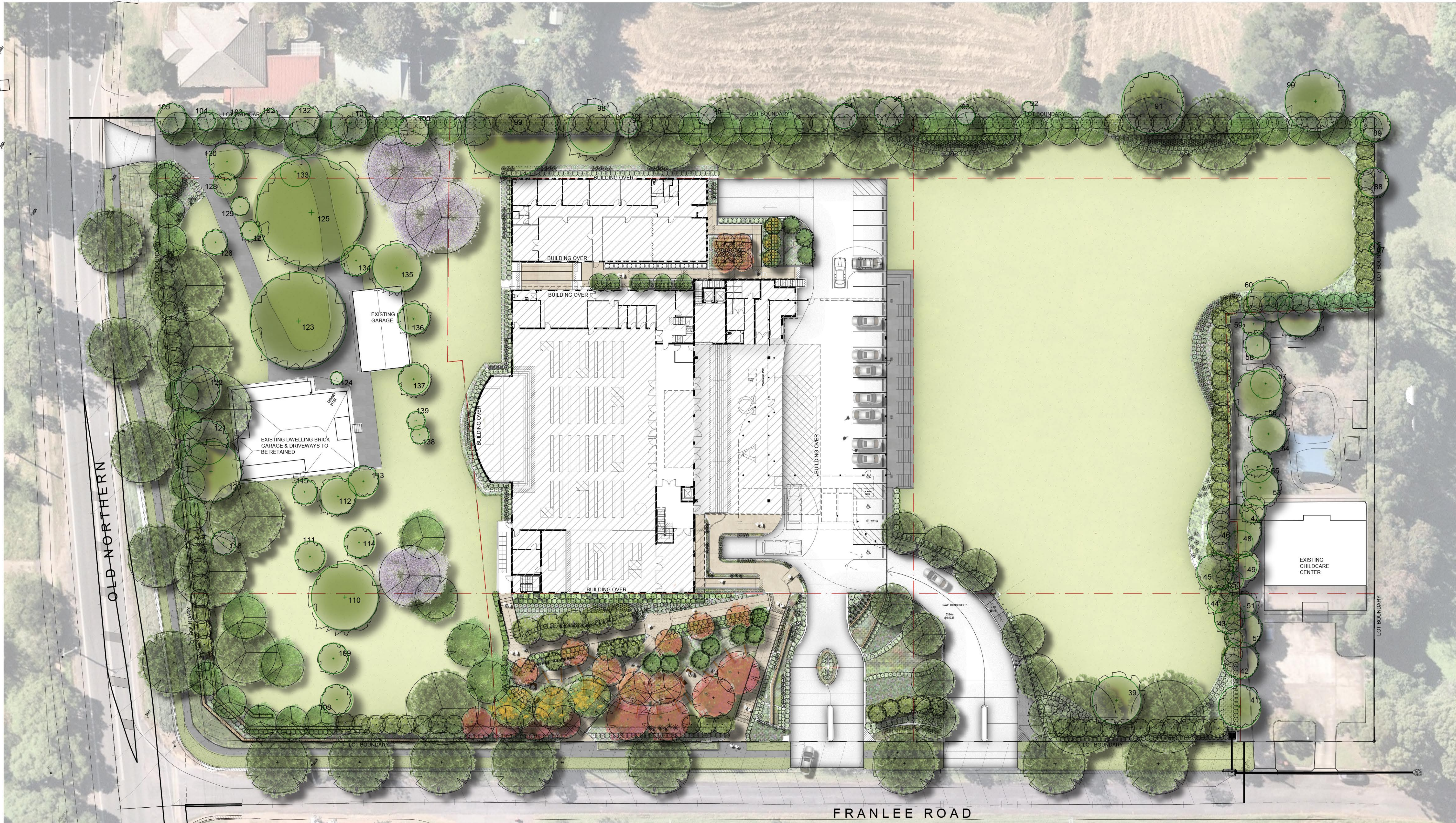
Scale: 1:300 @ A1
Job Number:
SS20-4490

PRELIMINARY

Drawing Number:

Issue:

L-001 G



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D	For Approval
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B	Preliminary
A	Preliminary

Drawn	Check	Date
EN	RS	25.11.2020
EN	RS	03.11.2020
EN	RS	30.10.2020
EN	RS	28.10.2020
EN	RS	22.10.2020
EN	RS	16.10.2020

LEGEND

- Trees to be retained (Refer to Arborist report)
- Proposed trees (Refer to Planting Plans)
- Shrubs and Accents
- Ground covers & Grasses
- Lawn
- In situ Concrete
- Exposed aggregate (50% dark basalt + 50% white quartz 20mm aggregate)
- Retaining wall (Adair's concrete split face block, dry pack & coping) (Culminal). Refer details in civil detail
- Memorial plaques/ sculpture (Refer to specification)
- Steel Edging
- Fence
- Bollard (Lockable and removable bollard)
- Pergola
- Power Pole
- TGSI
- Property Boundary

Key Plan:

SITE IMAGE



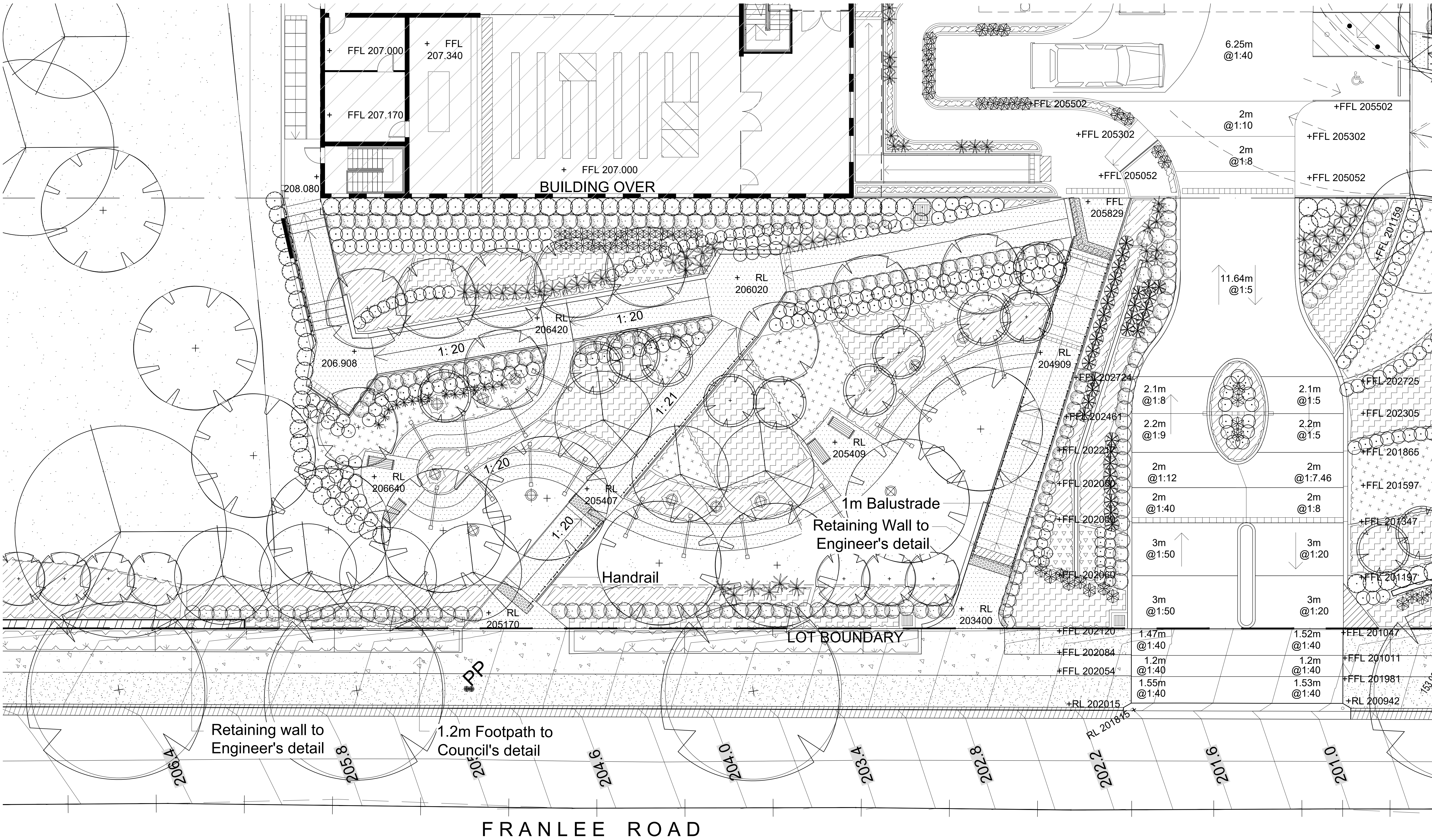
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Client:
**CHRIST THE REDEEMER
MARONITE CHURCH**
Project:
**669 OLD NORTHERN ROAD,
DURAL**

Drawing Name:
Rendered Landscape Masterplan
Drawing Number:
SS20-4490
Scale: 1:300 @ A1
Job Number:
SS20-4490
Issue:
C-100 F



A1



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EN	RS	03.11.2020
EN	RS	30.10.2020
EN	RS	26.10.2020
EN	RS	22.10.2020
EN	RS	16.10.2020

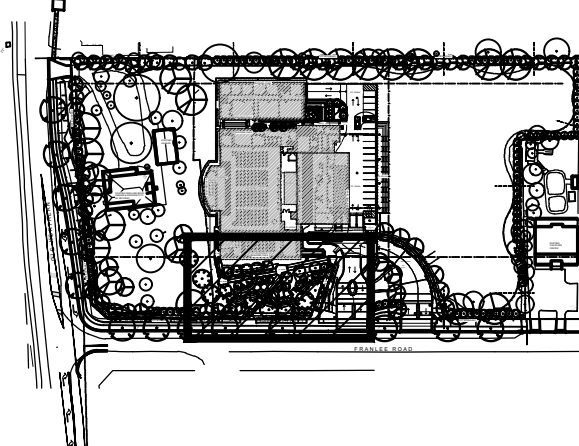
LEGEND

- Trees to be retained (Refer to Arborist report)
- Proposed trees (Refer to Planting Plans)
- Shrubs and Accents
- Ground covers & Grasses
- Lawn
- Insitu Concrete

- Exposed aggregate (50% dark basalt + 50% white quartz 20mm aggregate)
- Retaining wall (Asdr's concrete split face block, dry pack & sloping 1:10 (Minimum). Refer details to civil detail)
- Memorial plaques/ sculpture (Refer to specification)
- Steel Edging
- Fence
- Bollard (Lockable and removable bollard)

- Pergola
- Power Pole
- TGSI
- Property Boundary

Key Plan



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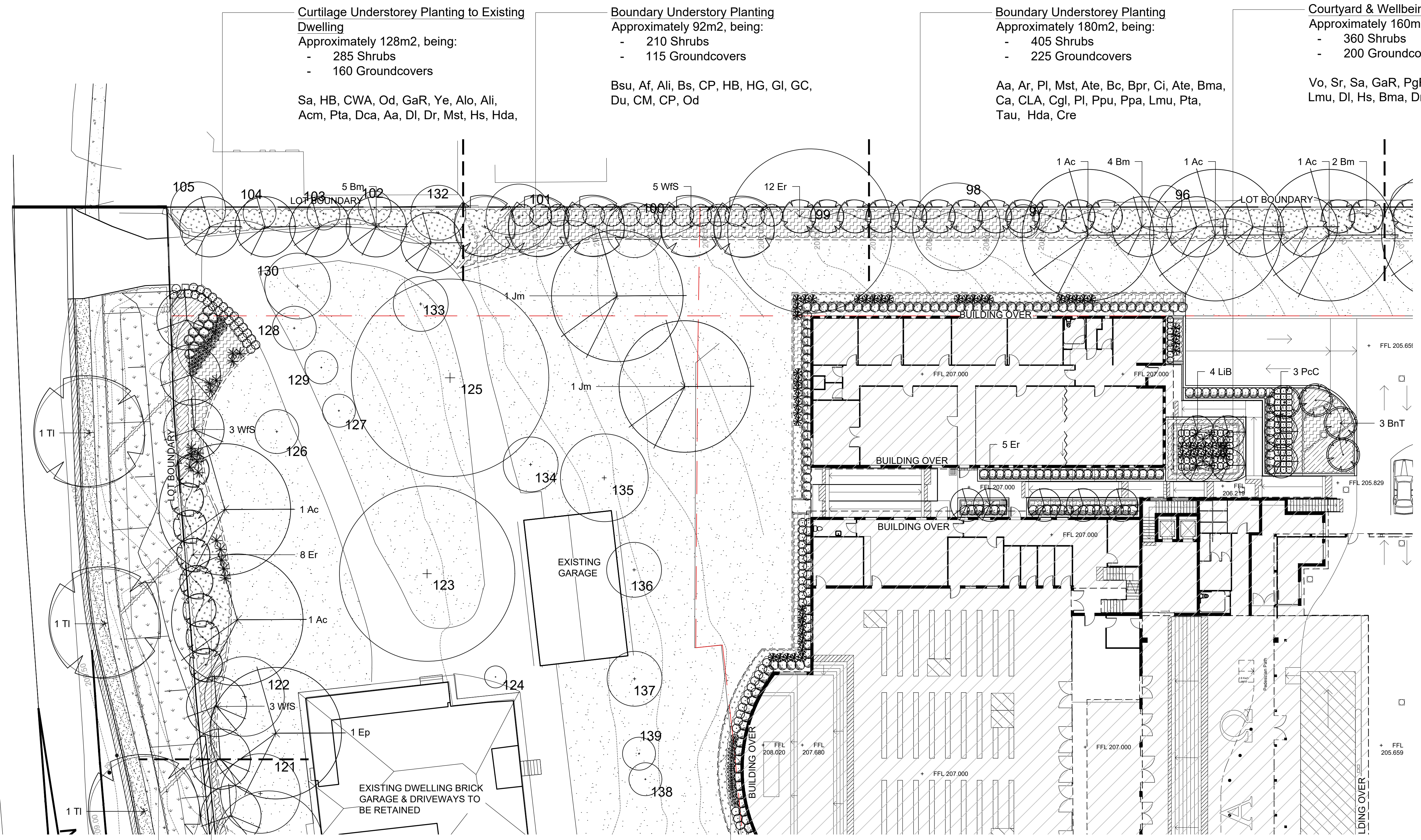
Client:
**CHRIST THE REDEEMER
MARONITE CHURCH**

Project:
**669 OLD NORTHERN ROAD,
DURAL**

Drawing Name:
**Children Memorial Garden
Landscape Plan**

PRELIMINARY

Scale: 1:100 @ A1
Job Number: SS20-4490
Drawing Number: L-110
Issue: G



Landscape Embankment Planting
Approximately 250m2, being:
- 560 Shrubs
- 315 Groundcovers

Ppa, CaK, Ca, Pl, Bpr, Ca, DI, Dca, Bma,
Epo, Aco, Aa, Vh, Tau, Mst, Pt, Lmu

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Boundary Understorey Planting
Approximately 200m2, being:
- 450 Shrubs
- 250 Groundcovers

Ppa, CaK, Cap, Pl, Bpr, Ca, DI, Dca, Bma,
Epo, Aco, Vh, Tau, Pt, Lmu, Hv

Building Perimeter Planting
Approximately 170m2, being:
- 285 Shrubs
- 215 Groundcovers

Mp, Vo, Wf, Sr, CRS, Du, GC, HG, GaF,
PgR, Cr, Wf, La, Pl, De, Tj, Lf, DI, Ghe,
Bma, Dr, Hda, Gs

NOTE:
PLANTING AREA APPROXIMATELY WITH
ALLOCATION OF 75% TO SHRUBS AND 25%
GROUNDCOVER.

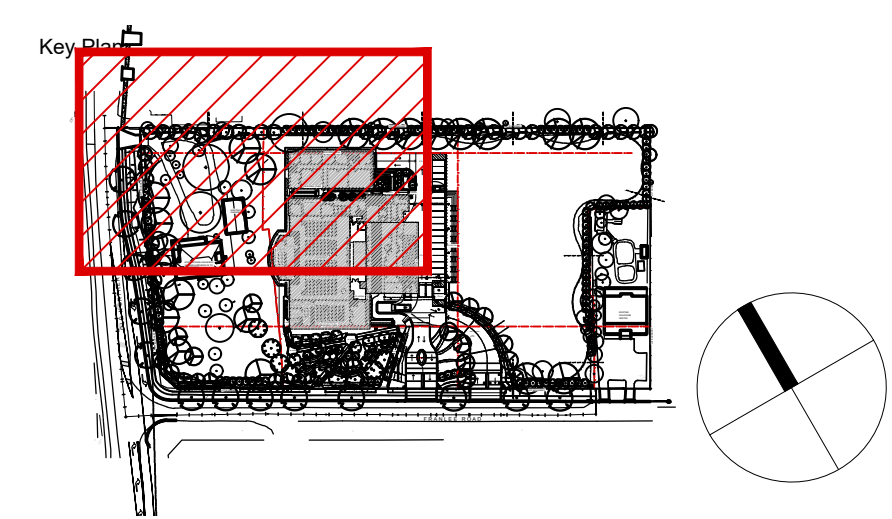
NOTE THAT FINAL DD FOR CC WILL ACHIEVE
70% NATIVE AND 30% EXOITIC SPECIES.

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B	Preliminary	EN	RS	22.10.2020
A	Preliminary	EN	RS	16.10.2020

LEGEND	
	Trees to be retained (Refer to Arbolist report)
	Proposed trees (Refer Planting Plans)
	Shrubs and Accents
	Ground covers & Grasses
	Lawn



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Client:
**CHRIST THE REDEEMER
MARONITE CHURCH**

Project:
**669 OLD NORTHERN ROAD,
DURAL**

Drawing Name:
Landscape Planting Plan 1

Scale: 1:200 @ A1
Job Number:
SS20-4490

PRELIMINARY

Drawing Number:
L-301

Issue:
G

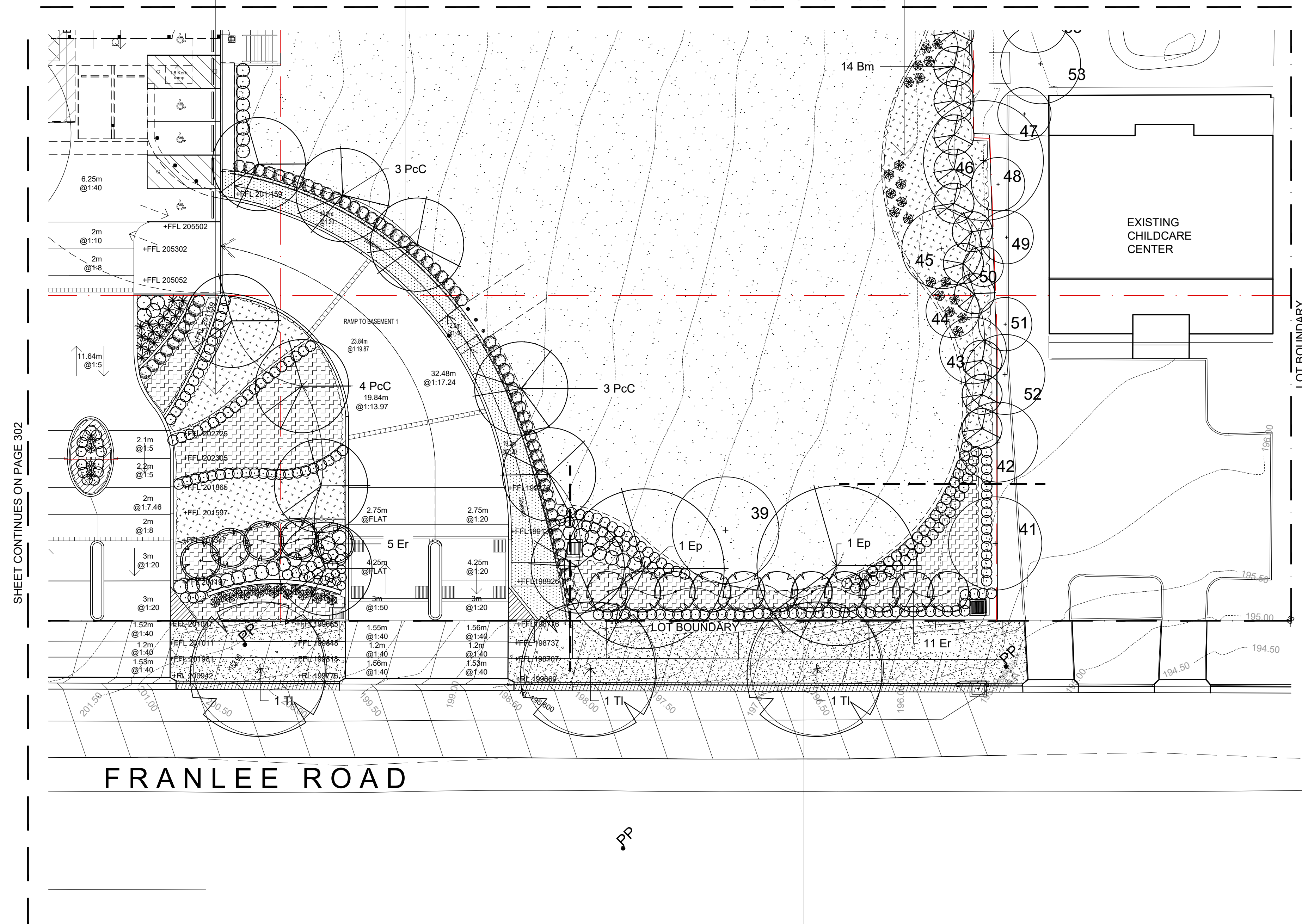
- 675 Shrubs
- 375 Groundcovers

- 225 Shrubs
- 125 Groundcovers

- 360 Shrubs
- 200 Groundcovers

Sa, HB, CWA, Od, GaR, Ye, Alo, Ali, Acm, Pta, Dca, Aa,
DI, Dr, Mst, Hs, Hda

SHEET CONTINUES ON PAGE 304



- 450 Shrubs
- 250 Groundcovers

Bsu, Af, Mp, PgR, Vo, Ali, Bs, CP, HB,
HG, Gl, GC, Du, CM, CP, Od

NOTE:
PLANTING AREA APPROXIMATELY WITH
ALLOCATION OF 75% TO SHRUBS AND 25%
GROUND COVER.

NOTE THAT FINAL DD FOR CC WILL ACHIEVE 70% NATIVE AND 30% EXOTIC SPECIES.

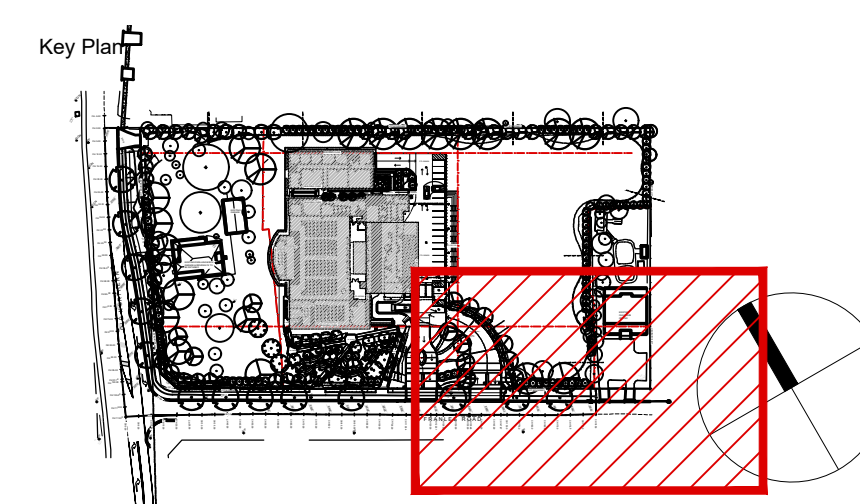
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C	Preliminary	EN	RS	26.10.2020
B	Preliminary	EN	RS	22.10.2020
A	Preliminary	EN	RS	16.10.2020
Issue	Revision Description	Drawn	Check	Date


 Trees to be retained
 (Refer to Arborist report)


 Proposed trees
 (Refer Planting Plans)


 Shrubs and Accents



Project:
669 OLD NORTHERN ROAD,
DURAL

PRELIMINARY

0 1 2 4 6 10m
Drawing Number: Issue:

SS20-4490

L-303 G

Boundary Understorey Planting
Approximately 175m2, being:
- 400 Shrubs
- 220 Groundcovers

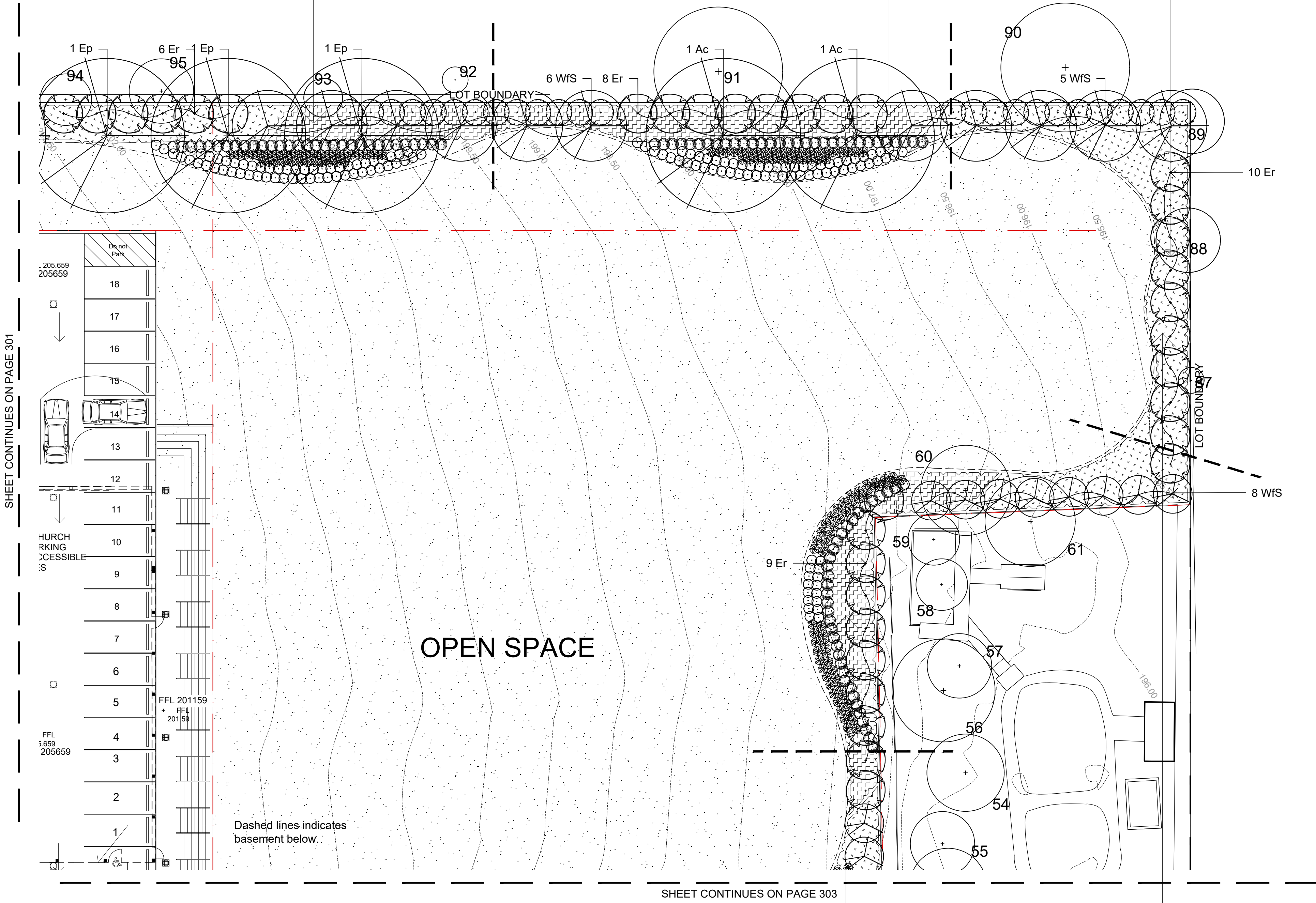
Ate, Bma, Ca, CLA, Cgl, Pl, Ppu, Ppa, Lmu, Pta, Tau,
Gs, Eps, Pt, Lf, Eh, Ju,

Boundary Understorey Planting
Approximately 160m2, being:
- 360 Shrubs
- 200 Groundcovers

Bsu, Af, Mp, PgR, Vo, Ali, Bs, CP, HB, HG, Gl,
GC, Du, CM, CP, Od, Ia, Pr

Boundary Understorey Planting
Approximately 168m2, being:
- 380 Shrubs
- 210 Groundcovers

Ppa, CaK, Cap, Pl, Bpr, Ca, Dl, Dca, Bma,
Epo, Aco, Vh, Tau, Pt, Lmu, Hv



Boundary Understorey Planting to Existing Childcare
Approximately 164m2, being:
- 370 Shrubs
- 205 Groundcovers

SsM, Sa, Vo, Sr, CRS, De, GC, HG, GaR, Cr, PgR,
Acm, PgR, Caa, CrWf, La, Pl, Tj, Ye, Lf, Dl, Od, Hs,
Dca, Bma, Dr, Hda, Vh, Dl, Ju, Pt

Boundary Understorey Planting
Approximately 168m2, being:
- 380 Shrubs
- 210 Groundcovers

Bsu, Af, Mp, PgR, Vo, Ali, Bs, CP, HB,
HG, Gl, GC, Du, CM, CP, Od, Ia, Pr

NOTE:
PLANTING AREA APPROXIMATELY WITH
ALLOCATION OF 75% TO SHRUBS AND 25%
GROUND COVER.

**NOTE THAT FINAL DD FOR CC WILL ACHIEVE
70% NATIVE AND 30% EXOITIC SPECIES.**

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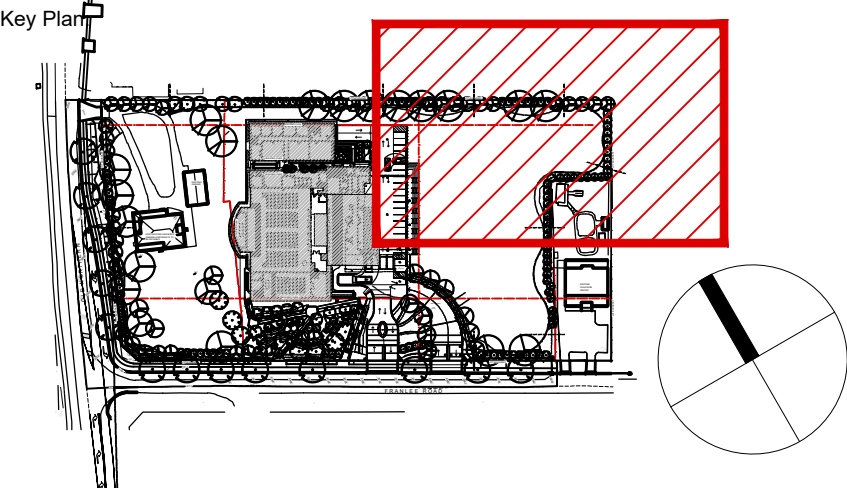
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C	Preliminary
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Drawn	Check	Date
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EN	RS	03.11.2020
EN	RS	30.10.2020
EN	RS	26.10.2020
EN	RS	22.10.2020
EN	RS	16.10.2020

LEGEND	
	Trees to be retained (Refer to Arbolist report)
	Proposed trees (Refer Planting Plans)
	Shrubs and Accents
	Ground covers & Grasses
	Lawn



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Client:
**CHRIST THE REDEEMER
MARONITE CHURCH**

Project:
**669 OLD NORTHERN ROAD,
DURAL**

Drawing Name:
Landscape Planting Plan 4

Scale: 1:200 @ A1
Job Number:
SS20-4490

PRELIMINARY
Drawing Number:
L-304 G

SPECIFICATION

GENERAL NOTES

References

All plans and details included in the project documents shall be read in conjunction with this specification. All structural and civil works components of the landscape design shall be referenced to engineers' details and specifications. The drawings this specification in conjunction with the plant and materials schedules on the drawings. If in doubt about any detail or if conflicts are found in the documents, seek advice.

Workmanship and Materials

The whole of the landscape works shall be carried out by a competent, trained and qualified landscape contractor who is experienced in horticultural practices, landscape construction and planting techniques. The landscape contractor shall hold a current Building Contractors License and/or be a financial member of LNA Landscape Association NSW & ACT or equivalent organisations in other states.

EXISTING TREES AND SHRUBS

Trees and Shrubs to be Retained and Protected

Identify and mark trees and shrubs to be retained using a suitable non-injurious, easily visible and removable means of identification. Protect from damage the trees and shrubs to be retained, including those beyond the site area, both above and below the ground. If a tree becomes damaged during the works or it is proposed to perform work on a tree, give written notice immediately and obtain instructions.

Work Near Trees and Shrubs

Keep the area of the drip-line free from construction material and debris. Do not place bulk materials and harmful materials under foliage canopies or near trees. Do not place spoil from excavations against tree trunks. Prevent wind-blown building materials, such as cement, from covering trees and other plants. Do not remove topsoil from, or add topsoil to, the area within the drip-line of trees.

EARTHWORKS

Excavation, Trimming and Filling

Except as otherwise noted in the contract, bulk excavation is excluded from the landscape works. After the completion of bulk excavation by others, trim and fill the excavated ground surfaces to achieve design levels to accommodate finish materials as detailed. Prepare the sub-grade surface as required for the various finished ground treatments.

Site Drainage

Keep the excavated works drained and free of standing water. Allow to supply and install sub-soil drainage pipes as required for the new works to ensure that all gardens are well drained. Connect the sub-soil drainage pipes to the nearest downstream stormwater pits. Include pipe filter socks and course sharp aggregate backfilling of trenches.

HARDWORKS

Furniture, Handrails, Balustrades

Supply and install the scheduled items in accordance with the manufacturer's recommendations, as detailed and in the locations shown on plan. Provide all footings and fixings required for the items to be stable and in accordance with applicable codes and standards.

- Balustrades: Equal to Stainform ONYX 50 316 Satin SS
- Handrails: Equal to Stainform ONYX 50 316 Satin SS
- Bench Seats: Teak timber TBS

Garden Walls, Fences, Steps, TGSi and Edging

Construct garden walls, fences, steps, TGSi and edging as shown on plan, as detailed and of the material scheduled. Provide footings, step nosings, tactile surfaces to comply with Australian Standards and applicable legislation. Refer to engineer's details for structural retaining walls, concrete stairs, concrete strength, reinforcing and joint placement.

Continuous, Unit and Loose Pavement

Install the scheduled material pavement to the locations shown on plan. Ensure that all subgrade/subsurface works are complete prior to commencing paving. Confer with the engineer to ensure the structural integrity of the subgrade. Ensure that the base course under paved surfaces is a continuous plane offering a constant depth of bedding material not exceeding 50mm. If laying unit pavers in a cement mortar bed on a concrete sub-base ensure that joints in paving match the location of joints in the concrete. Refer to engineer's details for heavy duty slabs, concrete stairs, concrete strength, reinforcing, and joint type and placement.

- Insitu concrete paths: Wood float covered finish, tool edged.
- Path joints: Construction joints at 3000mm centres max.

Landscape Structures

All landscape structures shall have a common appearance in detail and material content while providing for the functional design requirements. The structure of all elements shall consist of a base frame of structural grade hardwood timber of sizes that sustain spans and maintain stability. Refer to drawn details for further information.

SOFTWARES

Site Soil Testing

Where site soil is to be retrieved from site and stored on site for reuse, undertake at least two (2) soil tests in locations as advised by the Project Manager or as shown on the plans. Provide results and recommendations regarding soil additives for the benefit of healthy plant growth and to adjust the soil components to achieve an appropriate planting medium for successful plant development. Where topsoil is imported to site no testing of the imported soil is necessary but ensure that imported soil can b e supplied with test data to verify that it suits the design plants.

Subsoil

Excavate and/or fill all garden beds to bring the top of subsoil to at least 300mm below finished design soil levels. Excavate all turf areas to bring the subsoil to at least 100mm below finished design levels. In all areas shape the subsoil to fall to subsoil drains where applicable. Do not excavate within the drip line of trees and shrubs to be retained. Cultivate or rip the subsoil to a further depth of 100mm before placing top soil. Remove stones of size exceeding 25mm, clods of earth exceeding 50mm, and weeds, rubbish or other deleterious material brought to the surface during cultivation. Do not disturb services or existing tree roots. If necessary, cultivate these areas by hand. During cultivation, thoroughly mix in materials required to be incorporated into the subsoil, as recommended in the soil testing results and to manufacturer's recommendations. Trim the surface to design levels again after cultivation.

Subsoil Drainage

Provide and install subsoil drainage equal to Vinidex 65mm (min) Draincoil with filter sock at the base of slopes, on the high side of paths, at the base behind retaining walls and where water is likely to accumulate at depth in the soil. Connect all subsoil drainage to the nearest downstream stormwater pit to ensure that subsoil water is managed and channelled to a stormwater drainage system. On sites with cross fall of less than 1:50 install subsoil drains to remove excess water from the subsoil in areas where water is likely to accumulate and may not penetrate lower strata naturally. Rip the sub-base surface 150mm deep before placing any soil. Install drainage pipes in subsoil trenches backfilled with 10mm blue metal (basalt) equal to ANL Blue Metal.

Coordinate the connection of subsoil drains to stormwater pits with the Civil or Hydraulic contractor.

Topsoil

Import topsoil for the garden and turf areas, unless the topsoil can be provided from material recovered from the site, as recommended in the soil testing results. Spread the topsoil on the prepared subsoil and grade evenly, compact lightly and uniformly in 150mm layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:

- Finished to design levels, allowing for mulch or turf, which is to finish flush with adjoining hard surfaces such as paths and edges;
- Smooth and free from inorganic matter, stones or clods of soil;
- Graded to drain freely, without ponding, to catchment and/or sub-soil drains;
- Graded evenly to adjoining surfaces; and
- Ready for planting.

Compost

Provide, in accordance with AS 4454, well rotted vegetative material or animal manure, free from harmful chemicals, inorganic matter, grass, weeds and the reproductive parts of unwanted plants.

Fertiliser

Provide proprietary fertilisers, delivered to the site in sealed containers marked to show manufacturer or vendor, weight, fertiliser type, N-P-K ratio, recommended uses, application rates and safety procedures. Apply appropriate fertiliser suited to the provenance of plants (indigenous or exotic) included in the design.

Plants

Supply plants in accordance with the landscape design drawings and schedules, which have the following characteristics:

- Large healthy root systems, with no evidence of root curl, restriction or damage;
- Vigorous, well established, free from disease and pests, of good form consistent with the species/variety;
- Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site in full sun, partial shade or full shade conditions;
- Grown in final containers for not less than twelve weeks;
- Trees, unless required to be multi-stemmed, shall have a single leading shoot; and
- Containers shall be free from weeds and of appropriate size in relation to the specified plant size.

Plant Installation

Following excavation of the planting hole, place and spread 15gms of wetting agent pre-mixed with one (1) litre of water. Place the plant correctly orientated to north or for best presentation. Backfill the planting holes with specified topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure that the backfill soil is not placed over the top of the root ball and that the root ball is not higher than the soil in which it is planted. Apply fertiliser, as specified around the plants in the soil at the time of planting.

Embankment Stabilisation

Where necessary and shown on the drawings prevent soil erosion or soil movement by stabilising embankments as follows. As a minimum, this should be on slopes steeper than or equal to 1:3 gradient. Stabilise embankments using biodegradable fibre reinforced heavy weight jute fabric. Lay fabric from top to bottom of slope. Install in accordance with manufacturer's specification, including 300 x 300mm anchor trench at top and bottom of slope, backfilled with soil over the fabric and compacted into the trenches. Using U-shaped galvanised steel pegs at 1000 mm centres generally and 250mm centres at edge overlaps, secure the fabric to the prepared soil surface. Plant through the fabric after it is installed.

Root Barrier

Supply and install root control barriers to all new tree plantings adjacent to walls, paths, kerbs and all service trenches, where their proximity poses a threat to the stability of the built infrastructure. Install in accordance with manufacturer's recommendations.

Mulch

Unless noted otherwise, mulch shall be approved proprietary recycled wood fibre or pine bark material. Place mulch in all garden beds to a depth of 75mm after all specified plants are installed. Keep mulch clear of all plant stems and rake to an even plane, flush with the surrounding surfaces evenly graded between design surface levels. Over fill to allow mulch to settle to the specified depth.

Stakes and Ties

Stakes shall be durable hardwood, straight, free of knots and twists, pointed at one end, in the following quantities and sizes for each of the various plant pot sizes:

- Plants >25 lt: 1 off 38 x 38 x 1200mm;
- Semi-advanced plants >75 lt: 2 off 50x50x 1800mm;
- Advanced plants >100 lt: 3 off 50 x 50 x 2400mm.

Turf

Turf shall be delivered to site as 25mm minimum thick cut rolls. Obtain turf from a specialist grower of cultivated turf. Turf shall have an even thickness, free from weeds and other foreign matter. Deliver turf to the site within 24 hours of being cut and lay it within 24 hours of delivery. Prevent it form drying out between cutting and laying. Lay the turf in the following manner:

- In stretcher pattern, joints staggered and close butted;
- Parallel long sides of level areas, with contours on slopes; and
- To finish flush, after lightly tamping, with adjacent finished surfaces and design levels.

Species: *Stenotaphrum secundatum* Sir Walter Soft-leaf Buffalo.

IRRIGATION

Scope: Unless otherwise noted or instructed irrigate all planted areas shown on plans including planters, tubs, gardens, turf and the like. The irrigation system shall be an automatic permanent system, with an irrigation controller self operated via a soil moisture sensor. The system shall be calibrated to deliver the optimum rate and volume of water appropriate to the type of plants in the design. The system shall be adjustable and fully serviceable. The layout of the entire irrigation system shall focus on delivering the required amount of water to maintain healthy and vigorous growth. The irrigation system shall be such that, component theft, vandalism, over-spray and wetting of paths shall be reduced to a minimum or eliminated with the use of drip, pop-up sprinklers and judiciously placed fixed spray emitters. Generally, do not use fine mist emitters that provide a drifting mist that may wet paths and the buildings unless specifically required by the design.

The Landscape Contractor shall engage a qualified irrigation consultant to design the system, document all components, accessories and materials for review by the Landscape Architect prior to starting landscape works generally.

LANDSCAPE MAINTENANCE

The Landscape Contractor shall rectify defects during installation and that become apparent in the works under normal use for the duration of the contract Defects Liability Period. Unless contracted otherwise, the Landscape Contractor shall maintain the contract areas by the implementation of industry accepted horticultural practices for 52 weeks from Practical Completion of the works. The landscape maintenance works shall include, but not be limited to:

- Replacing failed plants;
- Pruning;
- Insect and pest control;
- Fertilising;
- Maintaining and removing stakes and ties;
- Maintaining mulch;
- Mowing and top dressing;
- Irrigation and watering;
- Erosion control; and
- Weeding and rubbish removal.

Maintenance Log Book

Implement and keep a maintenance log book recording when and what maintenance work has been undertaken and what materials, actions and decisions have been used, implemented and concluded to keep the landscape always looking its best. Enter data daily and review information every 2 weeks. Observe trends and develop a maintenance regime around seasonal and observed event occurrences.

Maintenance Activities

During the defect maintenance period schedule the following activities to occur on a timely basis.

Plant replacement - Replace plants that have failed to mature, die or are damaged. Replacement plants shall be in a similar size and quality and identical species or variety to the plant that has failed. Replacement of plants shall be at the cost of the landscape contractor unless advised otherwise. If the cause of the failure is due to a controllable situation then correct the situation prior to replacing plants. Observe and replace failed plants within 2 weeks of observation.

Pruning - Prune dead wood, broken limbs, dead or infected foliage and as needed to develop strong, healthy plants to achieve the shape and form expected of the plant type. Observe daily and prune plants as necessary to maintain acceptable growth habit.

Insect, disease and pest control

- if ever possible;
- in wet weather or if wet weather is imminent;
- if target plants are still wet after rain;
- in windy weather; and
- if non-target species are too close.

Immediately report to the Project Manager any evidence of intensive weed infestation, insect attack or disease amongst plant material. Submit all proposals to apply chemicals and obtain approval before starting this work. When approved, spray with herbicide, insecticide, fungicide as appropriate in accordance with the manufacturers' recommendations. Observe daily and act as necessary to control any infestation or disease. Record in the logbook all relevant details of spraying activities including:

- Product brand / manufacturer's name,
- Chemical / product name,
- Chemical contents,
- Application quantity and rate,
- Date of application and location,
- Results of application, and
- Use approval authority.

Fertilising

Fertilise gardens with a proprietary slow release fertiliser applied in accordance with the manufacturer's directions and recommendations. Apply 6-12 monthly. Record in the logbook all relevant details of fertilising including:

- Product brand / manufacturer's name,
- Fertiliser / product name,
- Application quantity and rate, and
- Date of application and location.

Stakes and ties - Adjust and replace as required to ensure plants remain correctly staked. Remove those not required at the end of the planting establishment period (Defects Liability Period). Inspect and act at least every 2 weeks.

Maintaining mulch - Maintain the surface in a clean, tidy and weed free condition and reinstate the mulch as necessary to ensure correct depth as specified. Observe weekly and replenish mulch as required.

Mowing and top dressing - Mow the turf to maintain a grass height of between 30-50mm. Do not remove more than one third of the grass height at any one time. Remove grass clippings from the site after each mowing. Top dress to a maximum of 10mm to fill depressions and hollows in the surface. Mow weekly/fortnightly in warmer months. Mow monthly or as required in cooler months. Top dress at approximately 6 monthly intervals.

Irrigation and watering - Maintain the irrigation system to sure that each individual plant receives the required amount of water to maintain healthy and vigorous growth. Adjust and calibrate as required. Provide additional watering, if necessary but inspect irrigation weekly and make repairs as necessary.

Erosion control - Where necessary, maintain the erosion control fabric in a tidy and weed free condition and reinstate as necessary to ensure control measures are effective where deemed necessary. Inspect every 2 weeks and act to repair any damage as soon as possible.

Weeding and rubbish removal - During the plant establishment period remove by hand, rubbish and weed growth that may occur or re-occur throughout all planted, mulched and paved areas. The contractor shall target weeds that are capable of producing a major infestation of unwanted plants by seed distribution. Whenever possible, time weed removal to precede flowering and seed set. Constant observation and removal of weeds is essential.

NOTE:
PLANTING AREA APPROXIMATELY WITH
ALLOCATION OF 75% TO SHRUBS AND 25%
GROUNDCOVER.

NOTE THAT FINAL DD FOR CC WILL ACHIEVE
70% NATIVE AND 30% EXOITIC SPECIES.

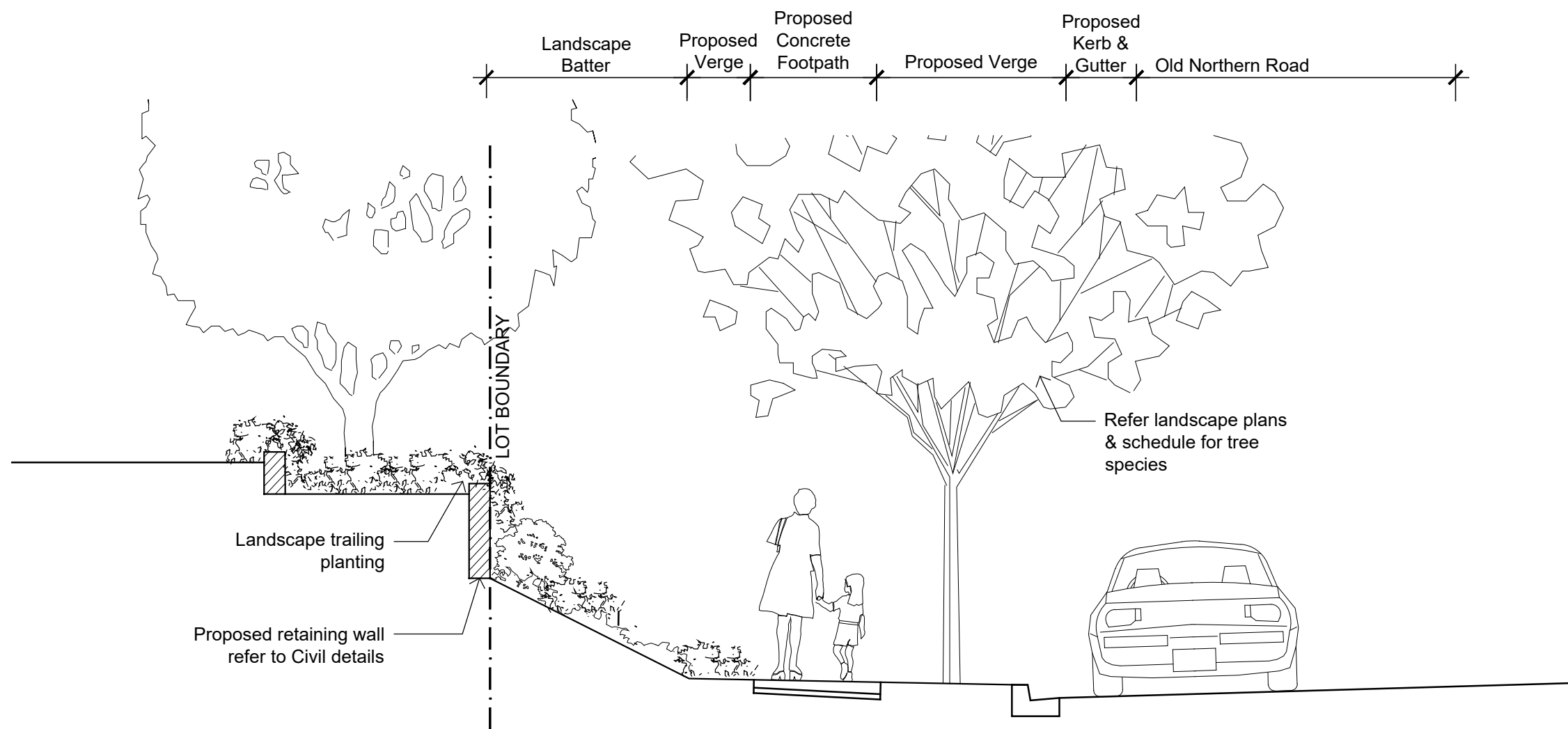
NOTE:
PLANTING SYMBOLS SHOWN ON
LANDSCAPE PLANS HAVE BEEN DRAWN TO
ACCURATE SCALE AND DENSITIES.
QUANTITIES OF PLANTS AND REFINEMENT
OF PLANT SCHEDULE TO BE COMPLETED
DURING DESIGN DEVELOPMENT.

INDICATIVE PLANT SCHEDULE							
669 Old Northern Road Dural							
Symbol	HSC Indigenous Planting	Botanic Name	Common Name	Height (m)	Spread (m)	Proposed Pot Size	Quantity
TREES							
Ap		Acer palmatum	Japanese Maple	4.0	2.0	200L	5
Ac	*	Angophora costata	Sydney Red Gum	20.0	10.0	100L	8
Bm	*	Backhousia myrtifolia	Grey Myrtle	6.0	3.0	45L	27
BnT		Betula nigra Tropical	Tropical Birch	9.0	4.0	200L	4
Er	*	Elaeocarpus reticulatus	Blueberry Ash	10.0	4.0	100L	94
Ec		Eucalyptus cinerea	Dollar Leaf Gum	8.0	4.0	100L	4
Ep	*	Eucalyptus paniculata	Grey Iron Bark	20.0	10.0	100L	7
EpP	*	Eucalyptus piperita	Sydney Peppermint	20.0	10.0	100L	1
Jm		Jacaranda mimosifolia	Jacaranda	25.0	10.0	200L	3
LiB		Lagerstroemia indica 'Biloxi'	Creepe Myrtle - Pink	8.0	4.0	400L	8
LiN		Lagerstroemia indica 'Natchez'	Creepe Myrtle - White	8.0	4.0	400L	1
MIG		Magnolia 'Little Gem'	Little gem	8.0	2.5	200L	5
Pcs		Pistacia chinensis	Chinese Pistachio	8.0	6.0	200L	5
PcC		Pyrus calleryana 'Chanticleer'	Callery Pear	8.0	4.0	400L	16
Ss		Sapium sebiferum	Chinese Tallow	6.0	4.0	100L	7
Ti		Tristanopsis laurina	Water Gum	12.0	5.0	200L	15
WIS		Waterhousea floribunda 'Sweeper'	Weeping Lily Pily	12.0	8.0	100L	38
			Total Number of Trees				248
			Total Number of Endemic Trees				137
			Total Percentage of Endemic Trees (%)				55
SHRUBS							
Af	*	Acacia floribunda	White Sally Wattle	6.0	4.0	Tube	
Ali	*	Acacia linifolia	Flax-leaved Wattle	3.0	2.0	Tube	
Alo	*	Acacia longifolia	Sydney Golden Wattle	2.0	2.0	Tube	
Ad		Alternanthera dentata	Ruby Leaf Alternanthera	0.4	0.4	300mm	
Bsu	*	Banksia spinulosa	Hair Pin Banksia	2.0	2.0	Tube	
Bs	*	Bursaria spinosa	Blackthorn	4.0	3.0	Tube	
CLJ		Callistemon 'Little John'	Bottlebrush	1.0	1.0	300mm	
Cs		Callistemon salignus	Willow Bottlebrush	7.0	4.0	Tube	
CWA		Callistemon 'White Anzac'	Bottlebrush	3.0	2.0	300mm	
CE		Camellia japonica 'Elegans'	Camellia	6	4	300mm	
CJ		Camellia japonica 'Janet Waterhouse'	Camellia	6	4	300mm	
CM		Camellia sasanqua 'Mine-no Yuki'	Camellia	3	2	300mm	
CP		Camellia sasanqua 'Plantation Pink'	Camellia	3	2	300mm	
CRS		Cordyline 'Red Sensation'	Red Cordyline	1.5	1.0	300mm	
Caa		Cyathea australis	Rough Tree Fern	4.0	2.0	300mm	
Cr		Cycas revoluta	Cycad	1.0	1.0	300mm	
Du		Daviesia ulicifolia	Gorse Bitter Pea	1.0	0.5	Tube	
Dv		Dodonaea viscosa subsp. Cuneata	Hopbush	1.0	0.5	Tube	
De		Doryanthes excelsa	Gymea Lily	1.0	1.0	300mm	
GaR		Gardenia augusta 'Radicans'	Prostrate Gardenia	0.5	2.0	300mm	
GC		Grevillea 'Coconut Ice'	White Spider Flower	1.0	2.0	300mm	
GI		Grevillea linearifolia	Grevillea	1.5	1.5	300mm	
GS		Grevillea 'Superb'	Grevillea	1.5	1.5	300mm	
HB		Hebe 'Bouquet of Flowers'	Veronica	1.5	1.2	300mm	
HG		Hebe x franciscana 'Blue Gem'	Veronica	1.0	1.0	300mm	
Ia	*	Indigofera australis	Austral Indigo	2.0	2.0	Tube	
La		Lavandula angustifolia	English Lavender	1.5	1.0	300mm	
Lt		Leptospermum trinervium	Tea Tree Bush	3.0	3.0	300mm	
Mp		Murraya paniculata	Mock Orange	3.0	2.0	300mm	
Od	*	Ozothamnus diosmifolius	Ball Everlasting	0.6	0.5	Tube	
PgR	*	Photinia glabra 'Rubens'	Dwarf Photinia	3.0	2.0	300mm	
Pr	*	Pittosporum revolutum	Rough-fruit Pittosporum	2.0	2.0	Tube	
Pds	*	Pultenaea daphnoides	Pultenaea	1.0	1.0	Tube	
Sr		Strelitzia reginae	Bird-of-Paradise	1.5	1.5	300mm	
SsM		Syzygium acmena smithii 'Minor'	Lily Pilly	4.0	2.0	300mm	
Sm		Syzygium australe	Lily Pilly	3.0	2.0	300mm	
Vo		Viburnum odoratissimum	Sweet Viburnum	3.0	2.0	300mm	
Wf		Westringia fruticosa	Coastal Rosemary	1.5	1.5	300mm	
Ye		Yucca elephantipes	Spineless Yucca	1.5	0.7	300mm	
GROUNDCOVERS, RUSHES, GRASSES & VINES							
Aa		Ayuga australis	Austral Bugle	0.2	0.2	Tube	
Ar		Aristida ramosa	Purple Wiregrass	1.2	0.5	Tube	
Acm		Arthropodium cirratum	NZ Rocklily	0.6	0.4	Tube	
Aco		Asperula conferta	Common Woodruff	0.1	0.5	Tube	
Aca		Austrodanthonia caespitosa	Wallaby Grass	0.8	0.4	Tube	
Ate		Austrodanthonia tenuior	Wallaby Grass	0.6	0.4	Tube	
Bc		Blechnum cartilagineum	Gristle Fern	1.0	0.5	150mm	
Bpr		Bossiaea prostrata	Creeping Bossiaea	1.0	0.5	Tube	
Bma		Bothriochloa macra	Red Grass	1.0	0.5	Tube	
Ci		Carex inversa	Knob Sedge	0.3	0.3	Tube	
Ca	*	Centella asiatica	Indian Pennywort	0.1	0.1	Tube	
Cap		Chryscephalum apiculatum	Common Everlasting	0.5	1.0	Tube	
CaK	*	Cissus antarctica	Kangaroo Grape	3.0	spreading	Tube	
CLA		Clematis aristata	Old Mans Beard			150mm	
Cgl	*	Clematis glycinoides	Old Man's Beard	0.2	1.0	Tube	
Cre	*	Cymbopogon refractus	Barbed Wire Grass	0.3	0.3	Tube	
Dca		Dianella caerulea	Smooth Flax Lily	1.0	0.5	Tube	
DI		Dianella longifolia	Smooth Flax Lily	1.0	0.5	Tube	
Dr	*	Dichondra repens	Kidney Weed	0.1	0.1	Tube	
Ds		Dilwynia sieberi	Prickly Parrot Pea	0.8	1.0	Tube	
Eh		Einadia hastata	Berry Saltbush	0.3	0.3	Tube	
Epo		Einadia polygonoides	Knotted Goosefoot	0.3	0.3	Tube	
Eps		Eriochloa pseudoacrotricha	Early Spring Grass	0.7	0.3	Tube	
Gs		Geranium solanderi	Native Geranium	0.1	spreading	Tube	
Gta		Glycine tabacina	Variable Glycine	0.4	0.6	Tube	
Ghe		Goodenia hederacea subsp. hederacea	Ivy Goodenia	0.1	0.6	Tube	
Hv	*	Hardenbergia violacea	Native Sarsaparilla	0.2	spreading	Tube	
Hda	*	Hibbertia dentata	Climbing Guinea Flower	0.3	0.5	150mm	
Hs	*	Hibbertia scandens	Climbing Guinea Flower	0.3	0.5	150mm	
Ju		Juncus ustatus	Common Rush	1.0	0.5	Tube	
Lf		Lomandra filiformis subsp. filiformis	Mat Rush	0.3	0.2	Tube	
Lmu		Lomandra multiflora subsp. multiflora	Many-flowered Mat Rush	0.6	0.5	Tube	
Mst	*	Microlaena stipoides	Native Weeping Ricegrass	0.7	0.5	Tube	
Ppa	*	Pandorea pandorana	Wonga Vine	4.0	spreading	150mm	
Pt		Parthenocissus tricuspidata	Boston Ivy		Pot	150mm	
PI		Poa labillardieri var. labillardieri	Common Tussock Grass	1.0	1.0	Tube	
Ppu	*	Pratia purpurascens	Whiterot	0.1	spreading	Tube	
Pta		Pteris Tremula	Tender Brake	1.0	0.5	150mm	
RL		Rosa 'Lake Cascade'	Climbing Rose	2.0	Climbing	150mm	
Tau	*	Thermeda australis	Kangaroo Grass	0.7	0.5	Tube	
TJ		Trachelospermum jasminoides	Star Jasmine	0.3	0.5	150mm	
Vh	*	Viola hederacea	Ivy Leaved Violet	1.0	0.5	Tube	

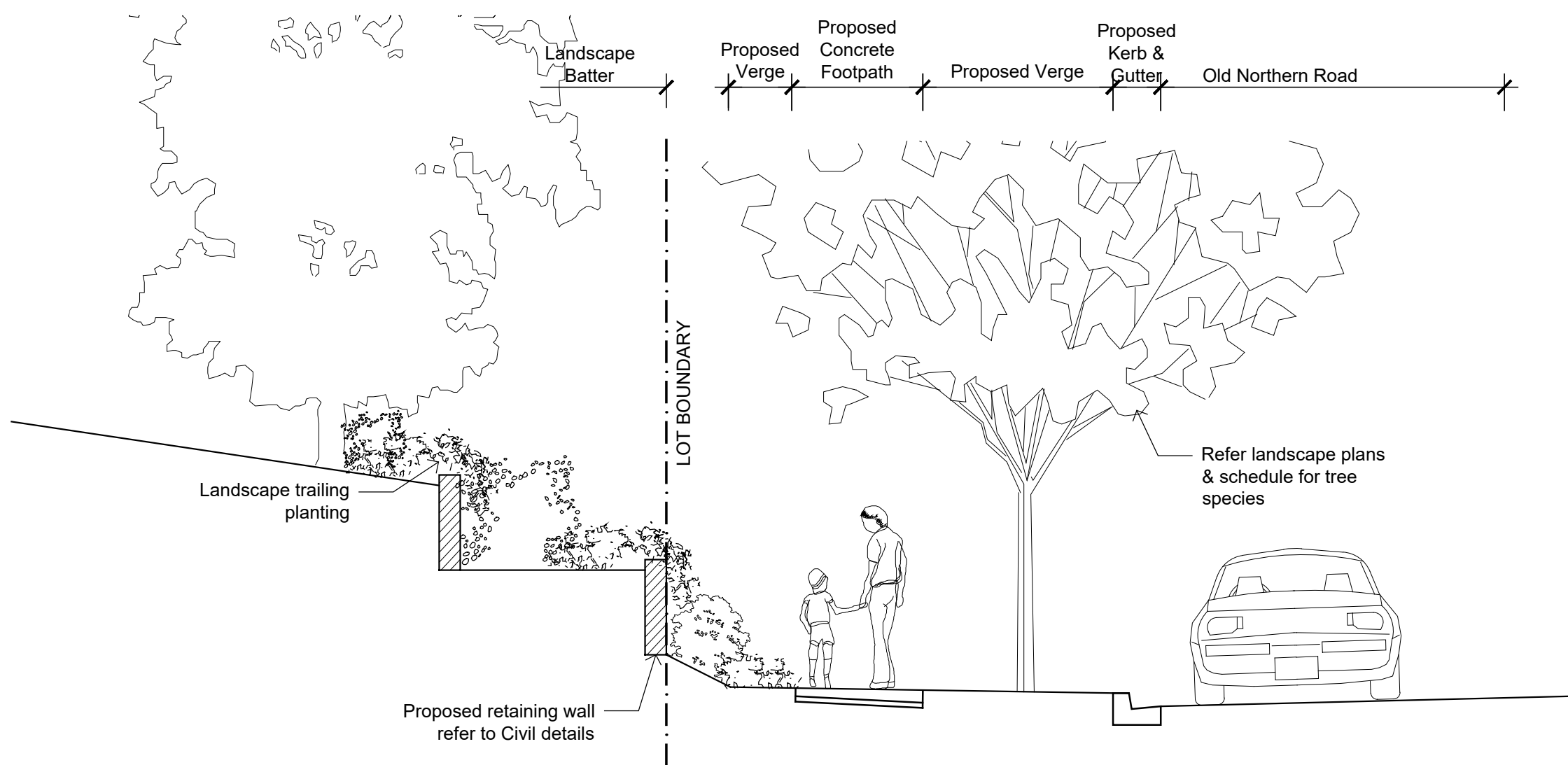




01
502 Indicative Pergola Arbour
NTS



02
502 Typical streetscape section- Old Northern Road
1:50



03
502 Typical streetscape section- Franlee Road
1:50

NOTE:
REFER TO CIVIL PACKAGE FOR DETAILED
INFORMATION REGARDING LEVELS AND WALLS.

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The contractor shall check and verify all work on site (including work by others) before commencing the landscape installation. Any discrepancies are to be reported to the Project Manager or Landscape Architect prior to commencing work. Do not scale this drawing. Any required dimensions not shown shall be referred to the Landscape Architect for confirmation.

E	For Review	EN	RS	02.11.2020
D	For Review	EN	RS	02.11.2020
C	For Review	EN	RS	30.10.2020
B	For Review	EN	RS	26.10.2020
A	For Review	EN	RS	22.10.2020
Issue	Revision Description	Drawn	Check	Date

LEGEND

Key Plan:

Client:
MARONITE CATHOLIC CHURCH

Project:
669 OLD NORTHERN ROAD
DURAL

Level 1, 3-5 Baptist Street
Redfern NSW 2016
Australia

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S I T E I M A G E



Landscape Architects

PRELIMINARY

Drawing Name:
LANDSCAPE DETIALS

Scale: AS SHOWN

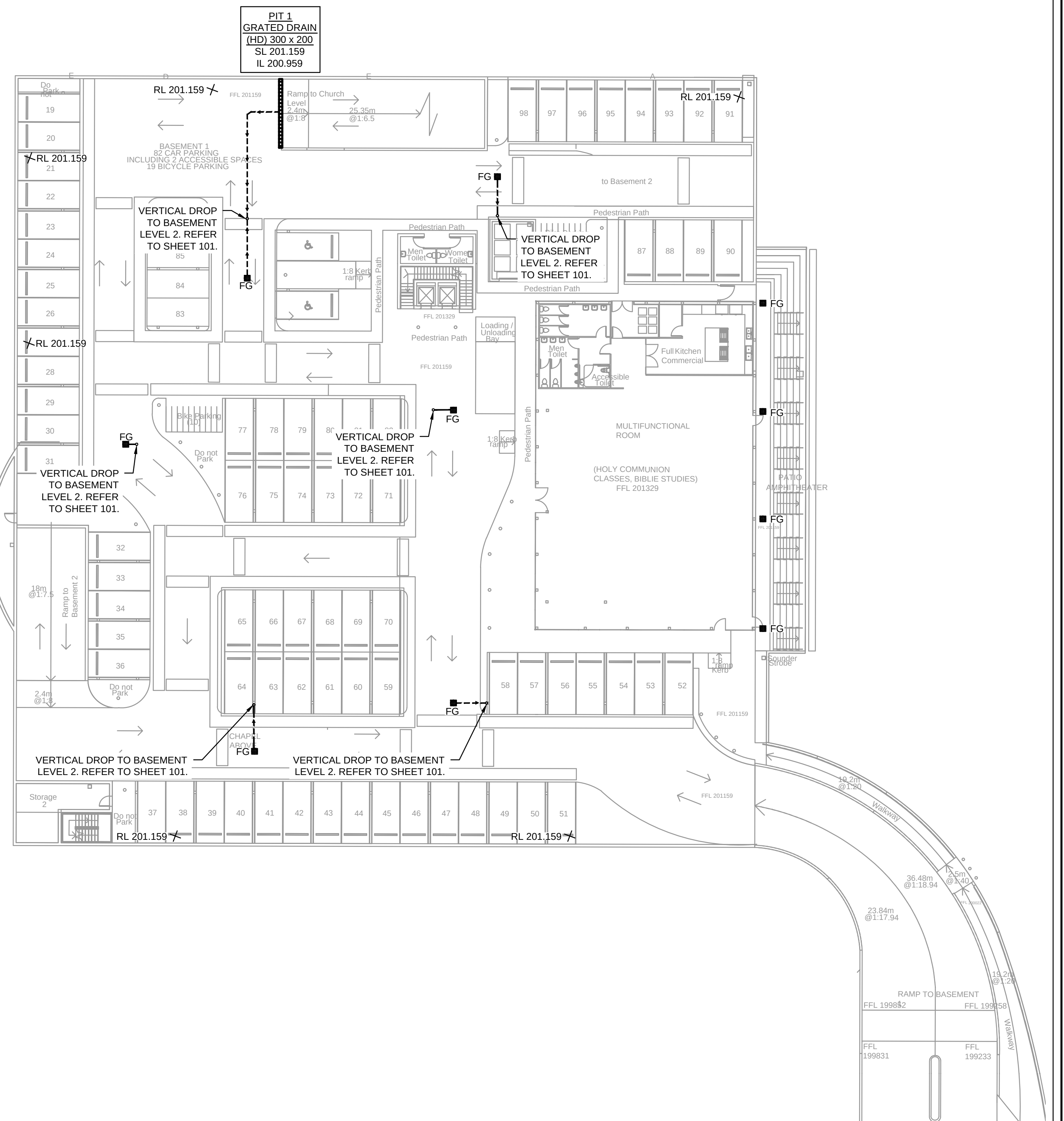
Job Number:

Drawing Number:

Issue:

SS20-4490

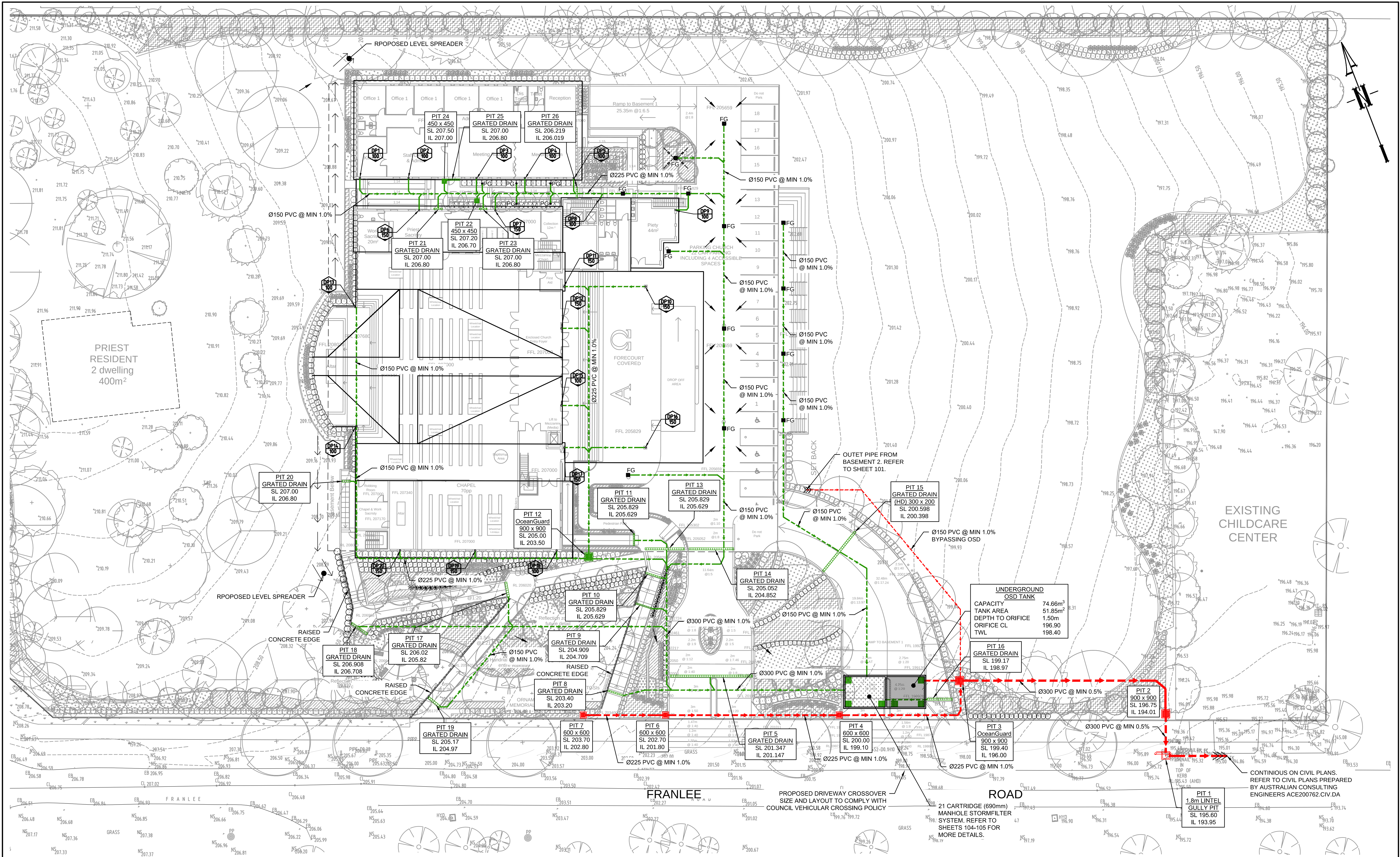
L-502 E



BASEMENT 1 PLAN

SCALE 1:250

Drawing Title			
STORMWATER CONCEPT PLAN BASEMENT LEVEL 1 & 2			
Scale	A1	Project No.	Dwg. No.
1:100		200762	101
			Issue
			C



Issue	Description	Date	Design	Checked
C	COUNCIL COMMENTS	23/04/2021	AGN	JSF
B	COUNCIL COMMENTS	11/02/2021	AGN	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	AGN	JSF

Certification By Dr. Anthony Hasham (NPER)

Anthony Hasham

Design Cubicle
44 Sorrell Street North,
Parramatta 2151
PHONE : 02 9683 2778
EMAIL : farah@designcubicle.com.au

Council
Hornsby
City Council

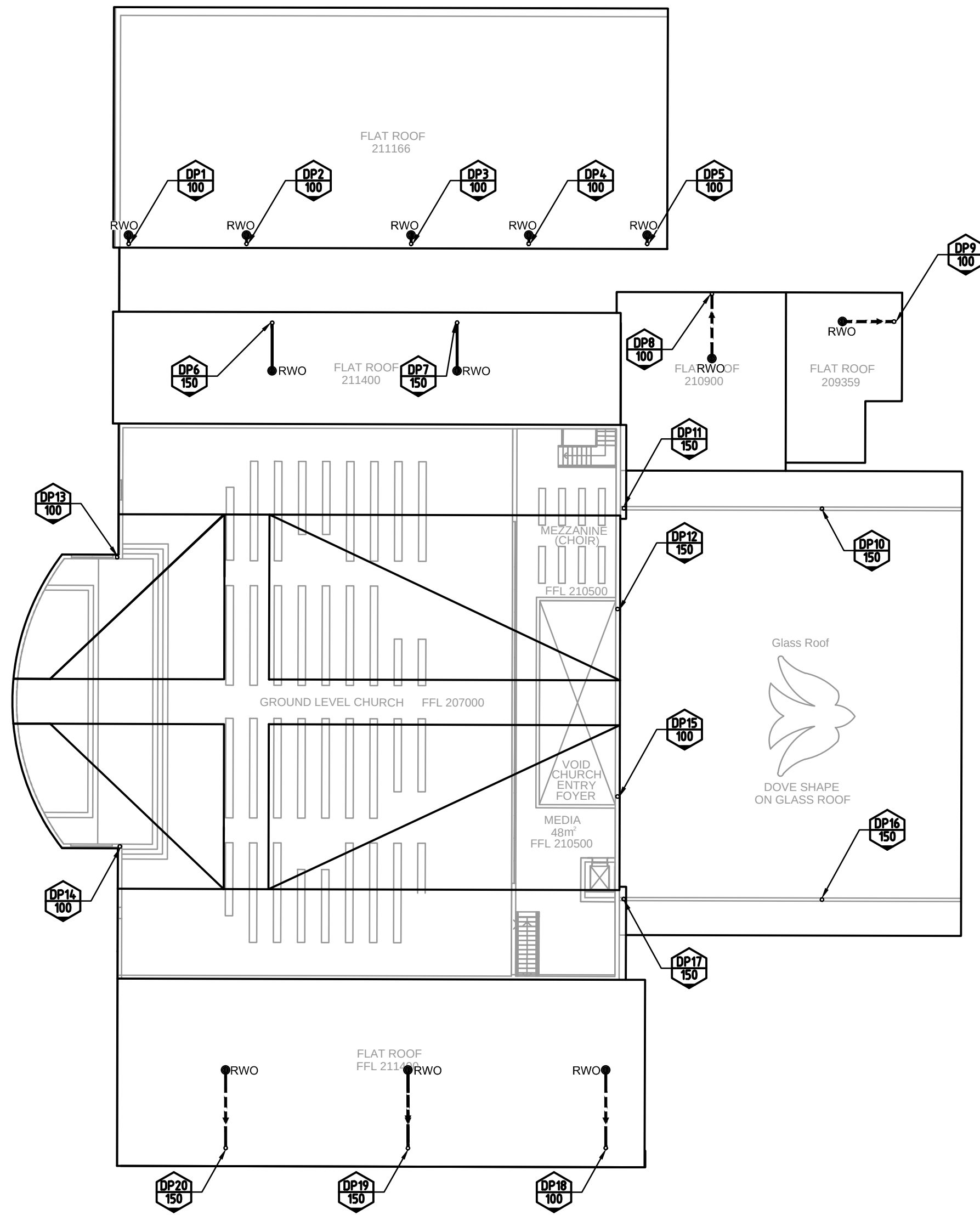
Scale
0 2 4 6 8 10 12 m
SCALE 1:250 @ A1

ACE CIVIL STORMWATER
SERVICES PTY LTD
ABN: 27 644 422 506
SHOP 2-141 CONCORD RD,
NORTH STRATHFIELD, NSW 2137
P:(02) 9763 1500 E:info@aceeng.com.au

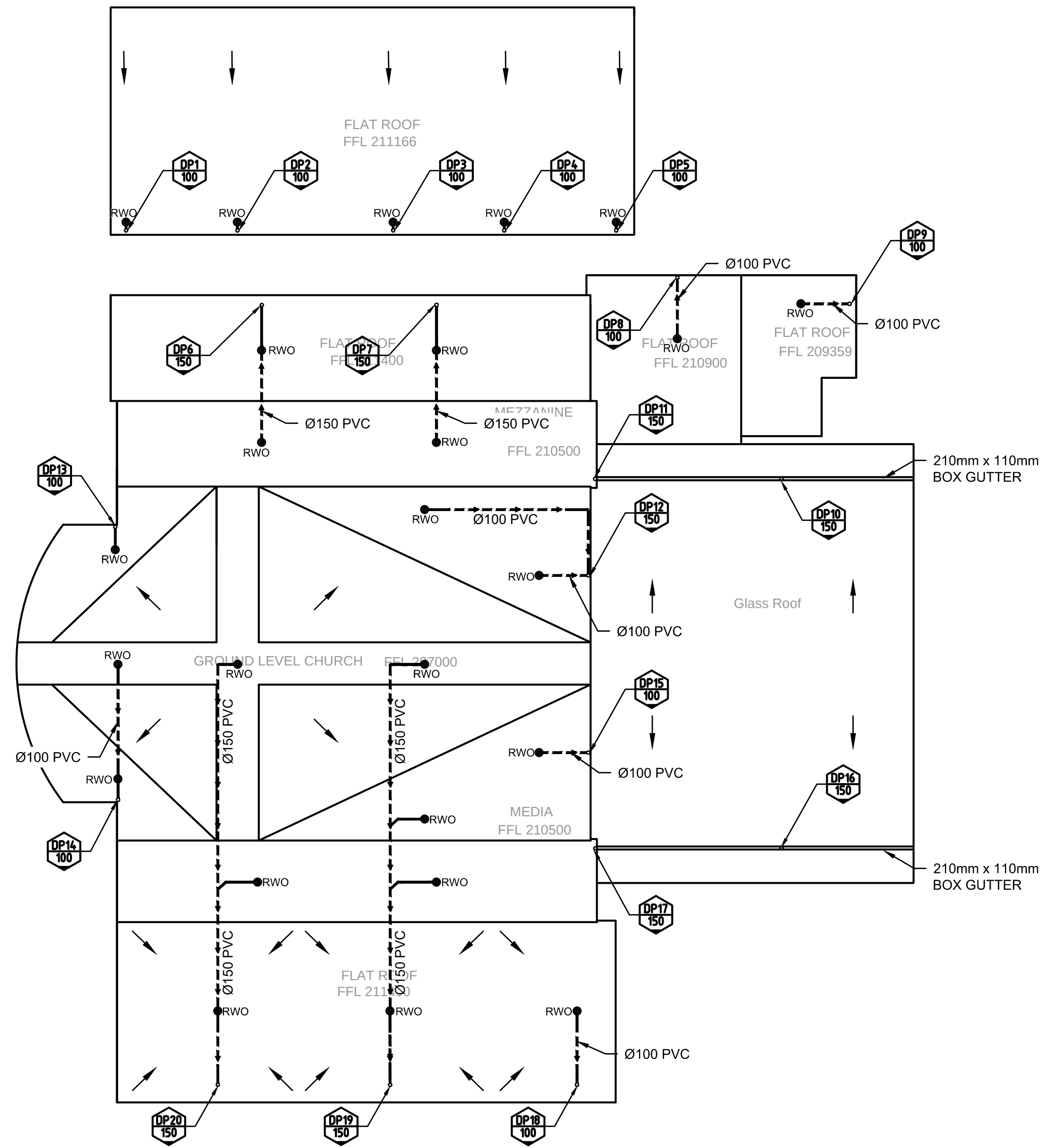
Project
669 OLD NORTHERN ROAD, DURAL
PROPOSED MARONITE CATHOLIC CHURCH
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

Drawing Title
STORMWATER CONCEPT PLAN
GROUND LEVEL

Scale 1:250	Project No. 200762	Dwg. No. 102	Issue C
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LEVEL 1 PLAN
SCALE 1:250



ROOF PLAN
SCALE 1:250

ROOF NOTE:
IT IS CONTRACTOR'S RESPONSABILITY TO ENSURE MINIMUM 30 TO 40mm OF PONDING IS ACHIEVED OVER THE RAINWATER OUTLETS BY GRADING CATCHMENT'S SURFACES AT MINIMUM 0.5% FALL FOR PAVED SURFACES AND MINIMUM 1.0% FALL FOR OTHER SURFACES..

	Number Req'd	Number Used	Gutter Area?	Gutter Width	Gutter Depth?
90 Dia:	5.72	6	8525	125	70
100 Dia:	4.5	5	10016	135	75
150 Dia:	1.81	2	22644	210	110
225 Dia:	0.72	1	41295	285	145
300 Dia:	0.38	1	41295	285	145

DOWNPIPE AND BOX GUTTER CALCULATIONS FOR GLASS ROOF

PIPES NOTE:
Ø65 PVC @ MIN 1.0%
Ø90 PVC @ MIN 1.0%
Ø100 PVC @ MIN 1.0%
Ø150 PVC @ MIN 1.0%
Ø225 PVC @ MIN 0.5%
Ø300 PVC @ MIN 0.4%
UNLESS NOTED OTHERWISE

NOT FOR CONSTRUCTION

Issue	Description	Date	Design	Checked
C	COUNCIL COMMENTS	23/04/2021	AGN	JSF
B	COUNCIL COMMENTS	11/02/2021	AGN	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	AGN	JSF

Certification By Dr. Anthony Hasham (NPER)

Architect
Design Cubicle
44 Sorrell Street North,
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Council
**Hornsby
City Council**

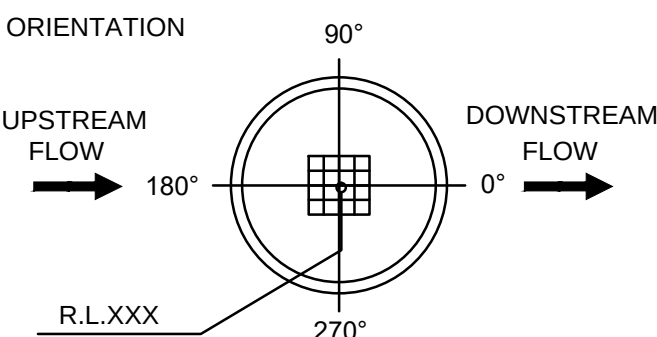
Scale

SCALE 1:250 @ A1

**ACE CIVIL STORMWATER
SERVICES PTY LTD**
ABN: 27 644 422 506
SHOP 2-141 CONCORD RD,
NORTH STRATHFIELD, NSW 2137
P:(02) 9763 1500 E:info@aceeng.com.au

Project
**669 OLD NORTHERN ROAD, DURAL
PROPOSED MARONITE CATHOLIC CHURCH
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

Drawing Title
**STORMWATER CONCEPT PLAN
LEVEL 1 & ROOF PLAN**
Scale A1 Project No. 200762 Dwg. No. 103 Issue C

SITE SPECIFIC DATA REQUIREMENTS			
STRUCTURE ID			1
WATER QUALITY FLOW RATE (L/S)			-
PEAK FLOW RATE (L/S)			-
RETURN PERIOD OF PEAK FLOW (yrs)			-
# OF CARTRIDGES REQUIRED (8-22)			21
CARTRIDGE HEIGHT (310, 460 or 690mm)			690
MEDIA TYPE (PERLITE, PERLITE/ZEOLITE OR ZPG)			ZPG
PRECAST VAULT WEIGHT		- kg	
PRECAST LID WEIGHT		- kg	
PIPE DATA:	I.L.	MATERIAL	DIAMETER
INLET PIPE #1	-	-	-
INLET PIPE #2	-	-	-
OUTLET PIPE	-	-	-
PIPE ORIENTATION			
			
LADDER		YES/NO	
ANTI-FLOTATION BALLAST	N/A		N/A
	N/A		N/A

STORMFILTER TABLE
N.T.S.

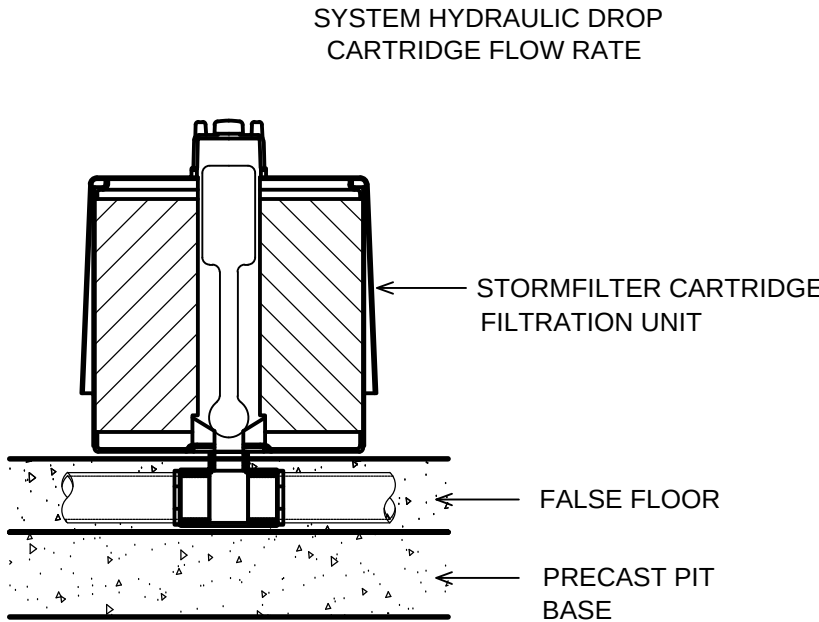
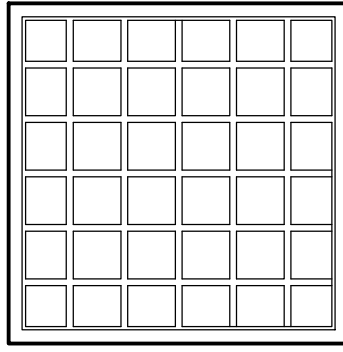
GENERAL NOTES

1. INLET AND OUTLET PIPING SHALL BE SPECIFIED BY SITE CIVIL ENGINEER (SEE PLANS) AND PROVIDED BY CONTRACTOR. STORMFILTER IS PROVIDED WITH OPENINGS AT INLET AND OUTLET LOCATIONS.
2. IF THE PEAK FLOW RATE, AS DETERMINED BY THE SITE CIVIL ENGINEER, EXCEEDS THE PEAK HYDRAULIC CAPACITY OF THE PRODUCT, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED. PLEASE CONTACT STORMWATER360 FOR OPTIONS.
3. THE FILTER CARTRIDGE(S) ARE SIPHON-ACTUATED AND SELF-CLEANING. THE STANDARD DETAIL DRAWING SHOWS THE MAXIMUM NUMBER OF CARTRIDGES. THE ACTUAL NUMBER SHALL BE SPECIFIED BY THE SITE CIVIL ENGINEER ON SITE PLANS OR IN DATA TABLE BELOW. PRECAST STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600.
4. FOR SHALLOW, LOW DROP OR SPECIAL DESIGN CONSTRAINTS, CONTACT STORMWATER360 FOR DESIGN OPTIONS.
5. ALL WATER QUALITY PRODUCTS REQUIRE PERIODIC MAINTENANCE AS OUTLINED IN THE O&M GUIDELINES. PROVIDE MINIMUM CLEARANCE FOR MAINTENANCE ACCESS.
6. STRUCTURE AND ACCESS COVERS DESIGNED TO MEET AUSTRROADS T44 LOAD RATING WITH 0.2m FILL MAXIMUM.
7. THE STRUCTURE THICKNESSES SHOWN ARE FOR REPRESENTATIONAL PURPOSES AND VARY REGIONALLY.
8. ANY BACKFILL DEPTH, SUB-BASE, AND OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY SITE CIVIL ENGINEER.
9. STORMFILTER BY STORMWATER360:
SYDNEY (AU) PHONE: (02) 9525 5833,
BRISBANE (AU) PHONE: (07) 3272 1872.

STORMFILTER DESIGN TABLE

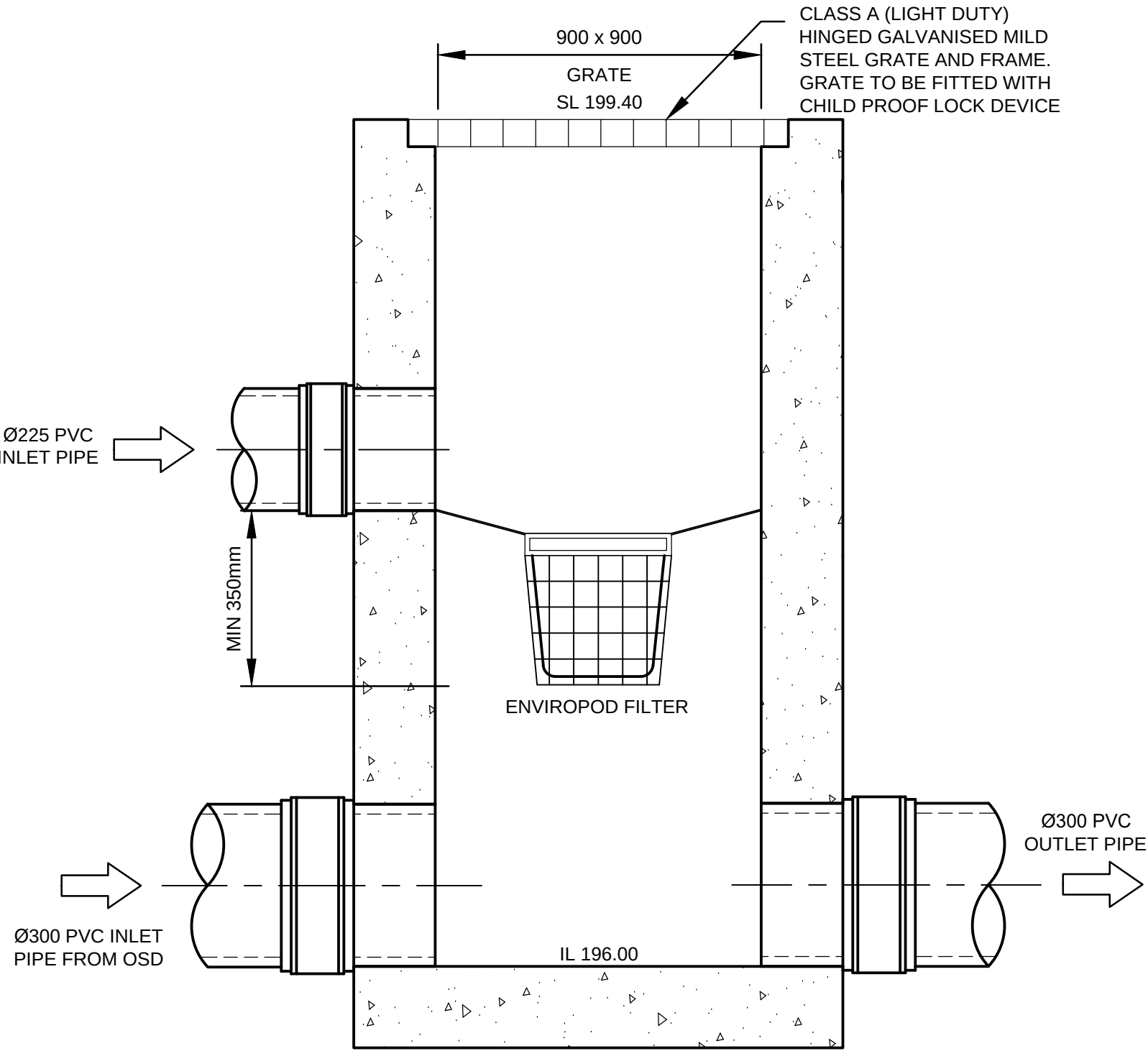
- STORMFILTER TREATMENT CAPACITY VARIES BY NUMBER OF FILTER CARTRIDGES INSTALLED AND BY REGION SPECIFIC INTERNAL FLOW CONTROLS. CONVEYANCE CAPACITY IS RATED AT 80L/S.
- ALL PARTS PROVIDED AND INTERNAL ASSEMBLY BY STORMWATER360 AUSTRALIA UNLESS OTHERWISE NOTED.

CARTRIDGE HEIGHT	690		460		310	
SYSTEM HYDRAULIC DROP (H - REQ'D. MIN.)	930		700		550	
TREATMENT BY MEDIA SURFACE AREA L/S/m2	1.4	0.7	1.4	0.7	1.4	0.7
CARTRIDGE FLOW RATE (L/s)	1.42	0.71	0.95	0.47	0.63	0.32

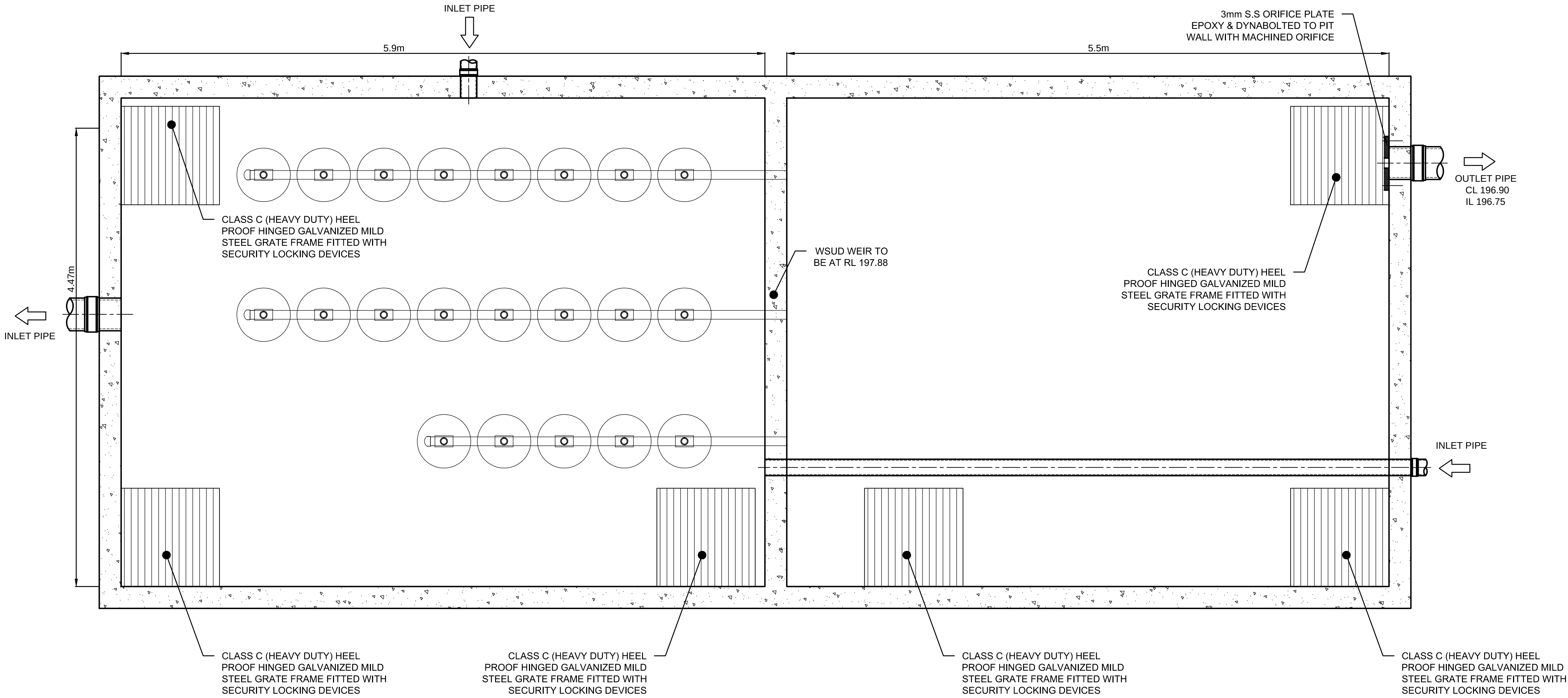


UNDERGROUND OSD TANK
STAGED STORAGE CALCULATIONS

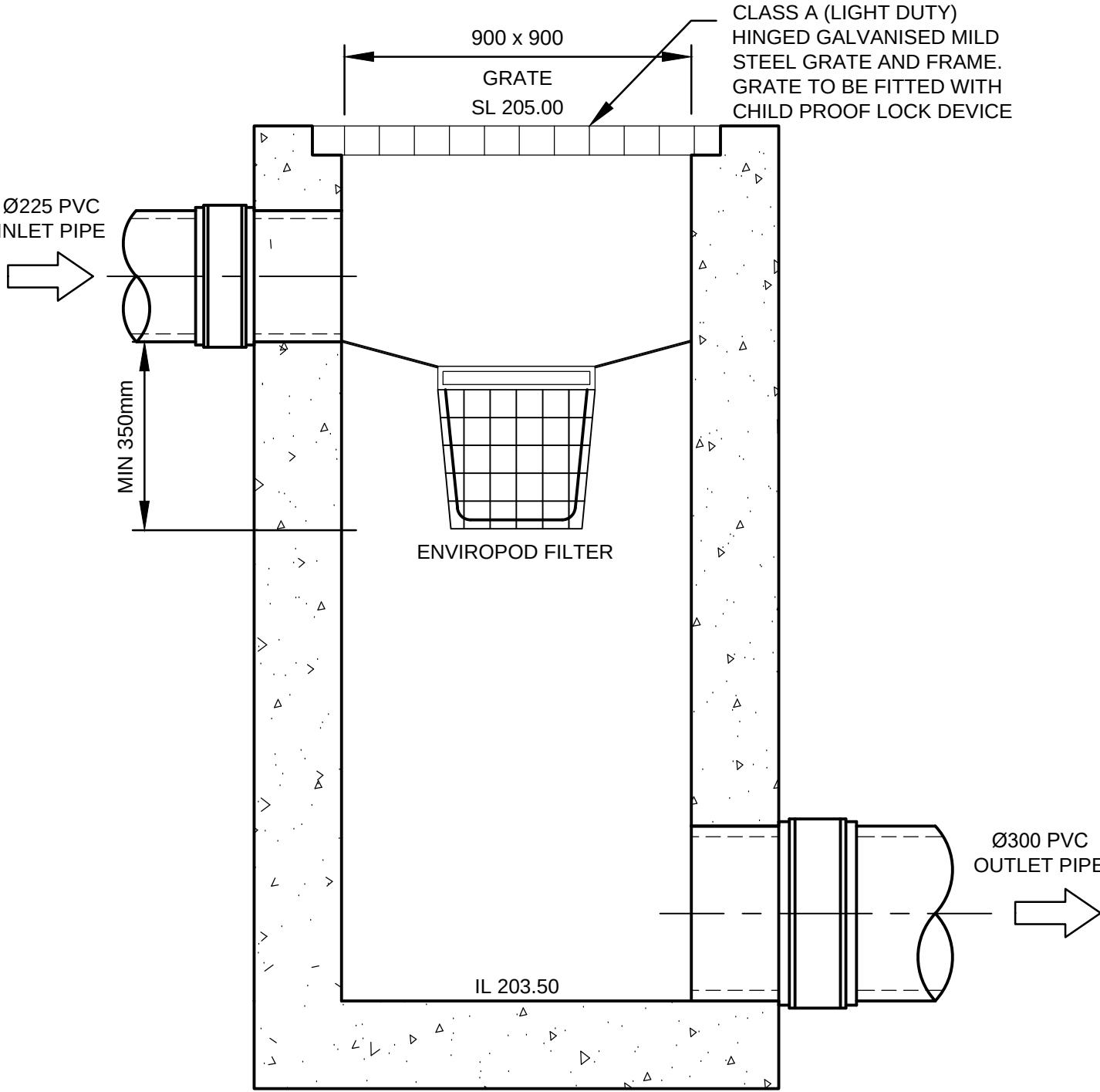
DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m³)
0	51.85	0
100	51.85	2.5925
200	51.85	7.259
300	51.85	12.444
400	51.85	17.629
500	51.85	22.814
600	51.85	27.999
700	51.85	33.184
800	51.85	38.369
900	51.85	43.554
1000	51.85	48.739
1100	51.85	53.924
1200	51.85	59.109
1300	51.85	64.294
1400	51.85	69.479
1500	51.85	74.664



PIT 3 - OceanGuard
CONFIGURATION SECTION
N.T.S.



UNDERGROUND OSD/WSUD TANK DETAIL
PLAN VIEW
SCALE 1:25



PIT 12 - OceanGuard
CONFIGURATION SECTION
N.T.S.

NOT FOR CONSTRUCTION

C	COUNCIL COMMENTS	23/04/2021	AGN	JSF
B	COUNCIL COMMENTS	11/02/2021	AGN	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	AGN	JSF
Issue	Description	Date	Design	Checked
1:10m at full size				

Certification By Dr. Anthony Hasham (NPER)

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Council
**Hornsby
City Council**

Scale

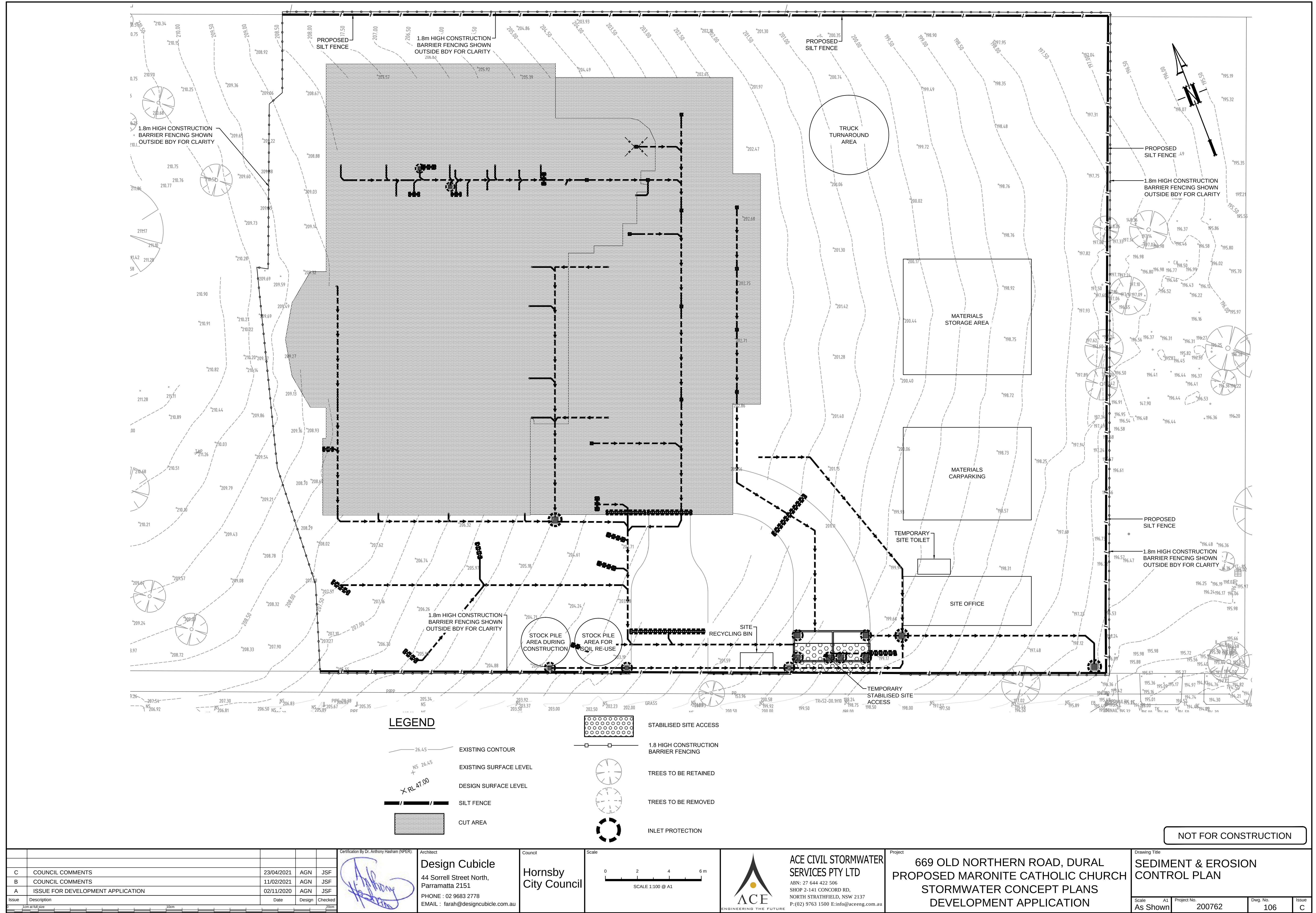
SCALE 1:25 @ A1



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Project
**669 OLD NORTHERN ROAD, DURAL
PROPOSED MARONITE CATHOLIC CHURCH
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION**

Drawing Title	OSD & WSUD DETAILS AND CALCULATION SHEETS SHEET 2 OF 2		
Scale	A1 As Shown	Project No. 200762	Dwg. No. 105
Issue	C		



C	COUNCIL COMMENTS	23/04/2021	AGN	JSF
B	COUNCIL COMMENTS	11/02/2021	AGN	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	AGN	JSF
Issue	Description	Date	Design	Checked

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Council
Hornsby
City Council

Scale
0 2 4 6 m
SCALE 1:100 @ A1

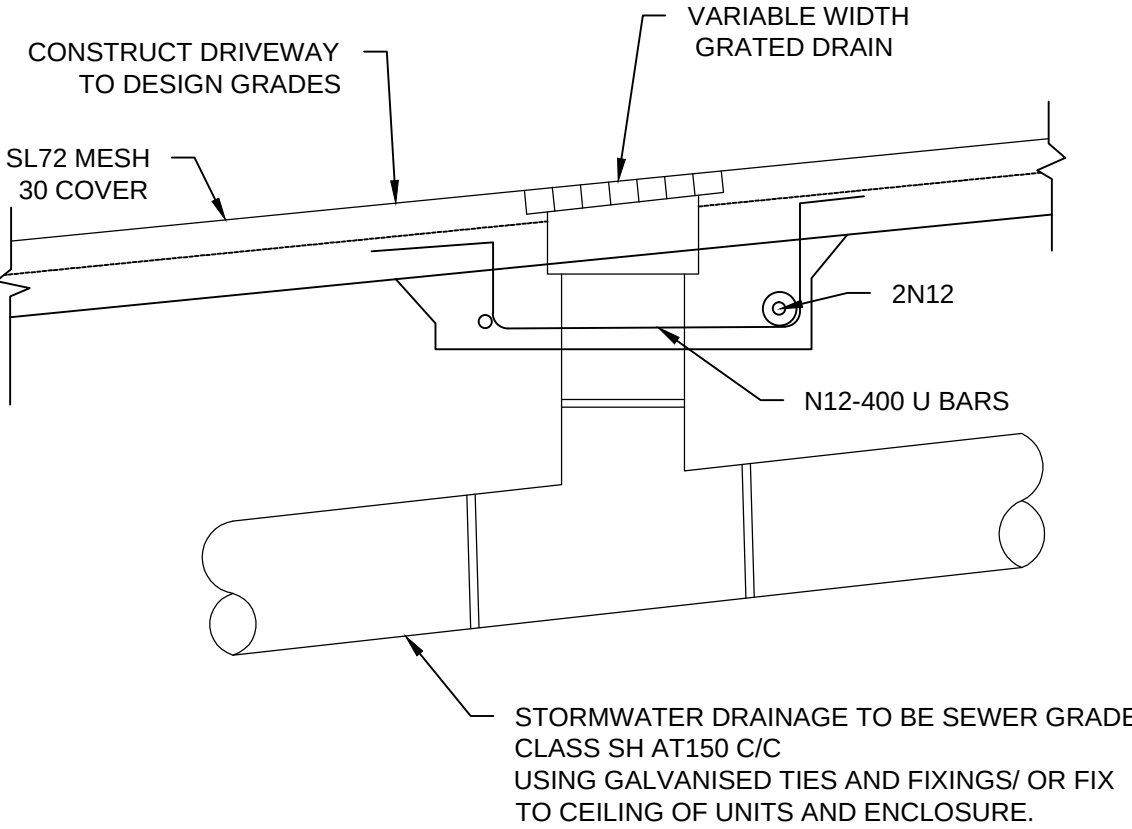
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Project
669 OLD NORTHERN ROAD, DURAL
PROPOSED MARONITE CATHOLIC CHURCH
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

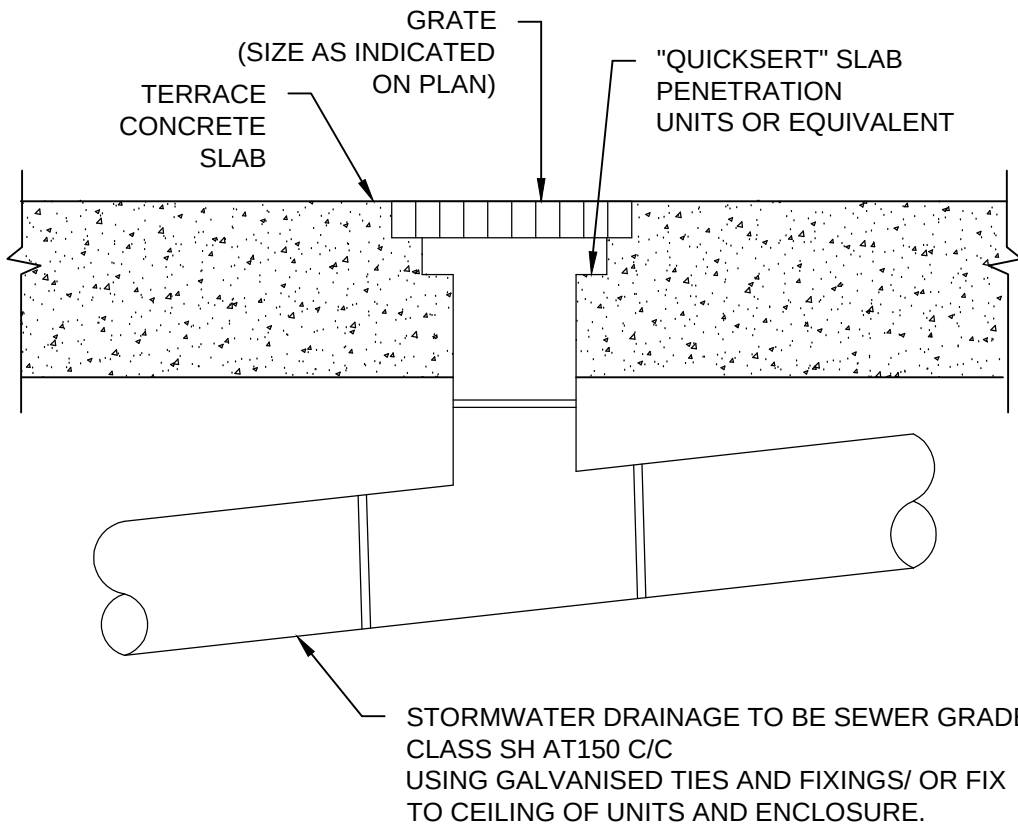
Drawing Title
SEDIMENT & EROSION
CONTROL PLAN
Scale A1 Project No. 200762 Dwg. No. 106 Issue C

SEDIMENT & EROSION NOTES

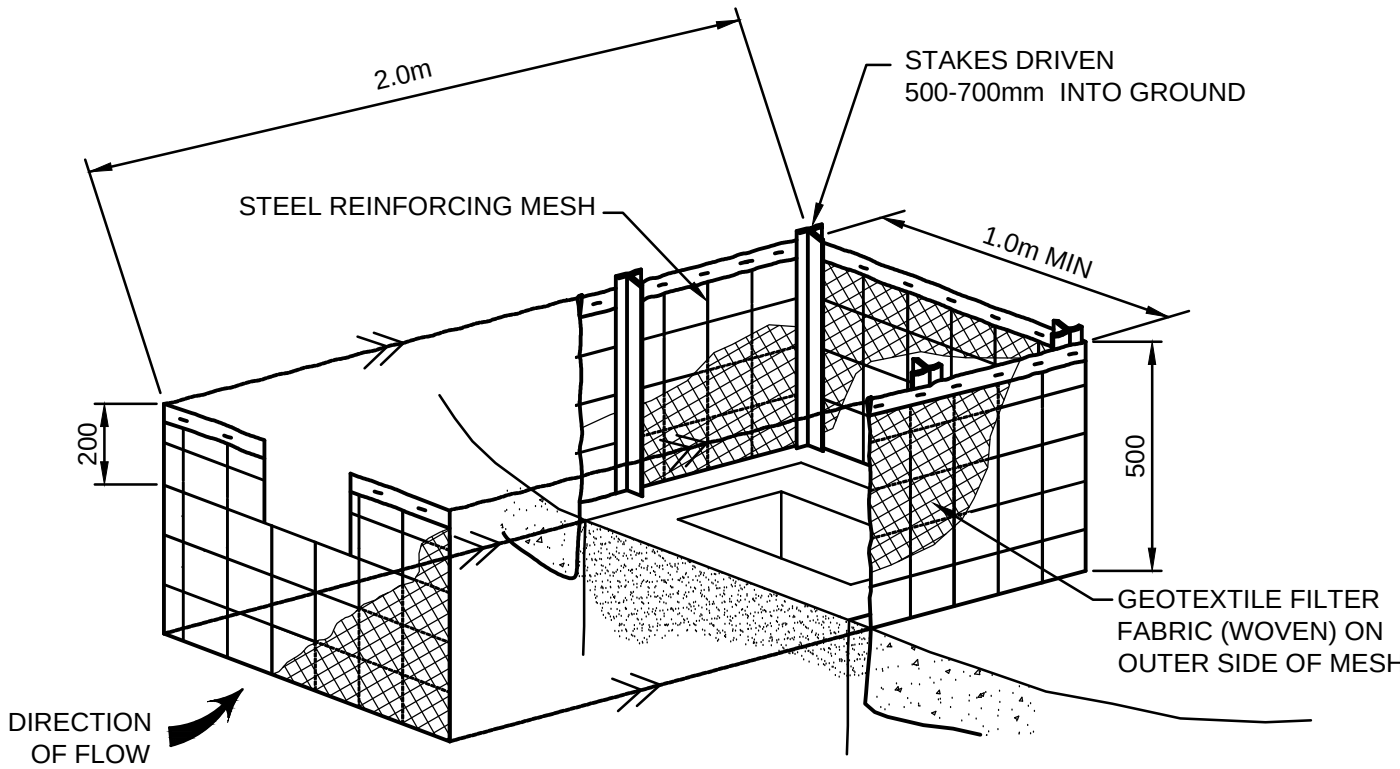
1. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
2. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION, AT ITS OWN COST, OF ANY DISTURBANCE BEYOND THOSE AREAS.
3. PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
4. PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT.
5. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
6. ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
7. WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM.
8. NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
9. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGH OUT CONSTRUCTION.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON-SITE BY THE SUPERINTENDENT.
12. THE LOCATION OF EROSION AND SEDIMENTATION CONTROLS WILL BE DETERMINED ON SITE BY THE SUPERINTENDENT.
13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.
14. ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE COORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.
15. PLANS ARE MINIMUM REQUIREMENTS AND ARE TO BE USED AS A GUIDE ONLY. EXACT MEASURES USED SHALL BE DETERMINED ON SITE IN CONJUNCTION WITH PROGRAM OF CONTRACTORS WORKS etc.



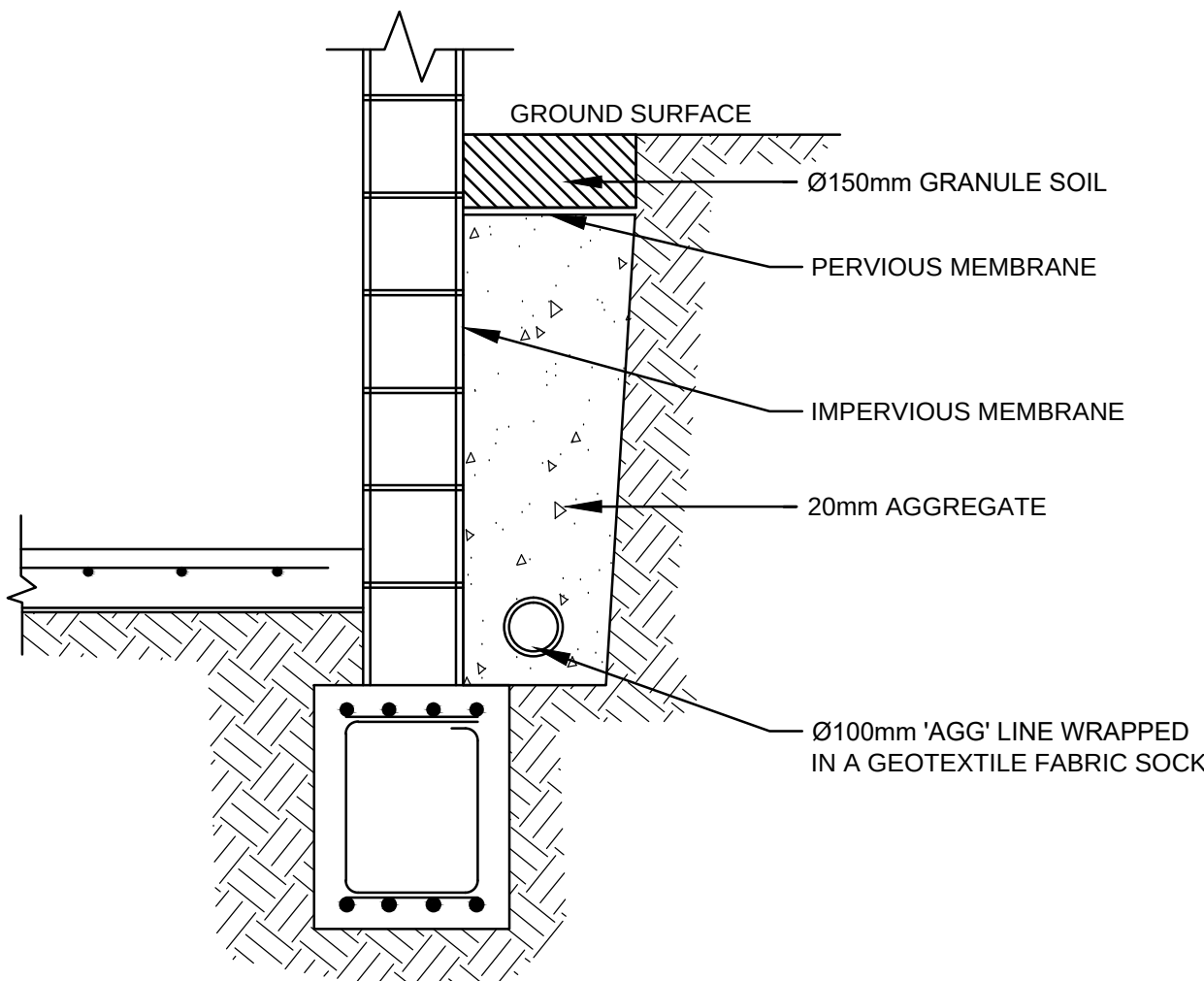
GRADED DRAIN DETAIL
N.T.S.



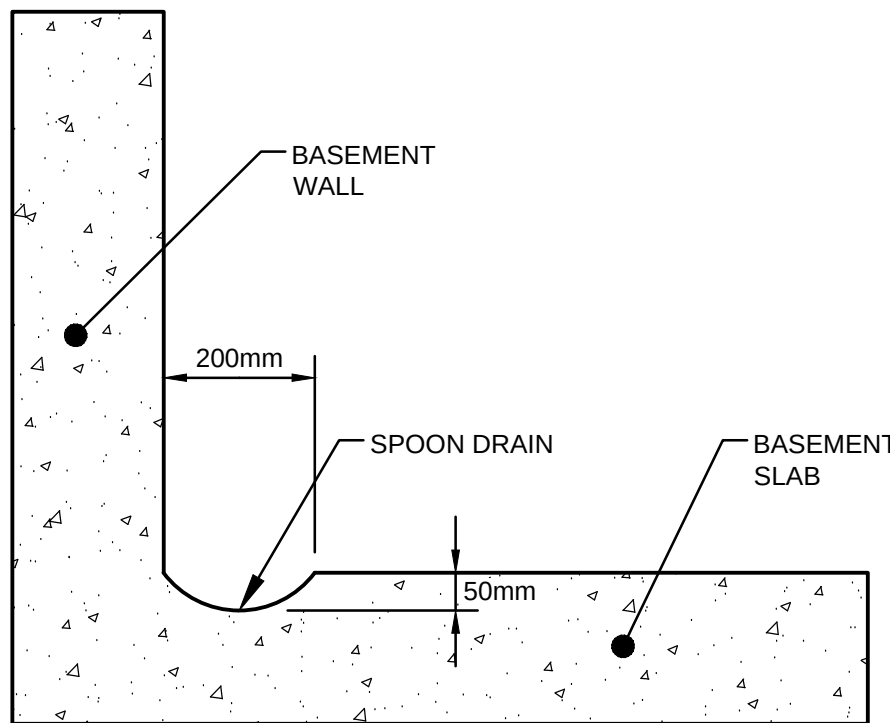
FLOOR GRATE DETAIL
N.T.S.



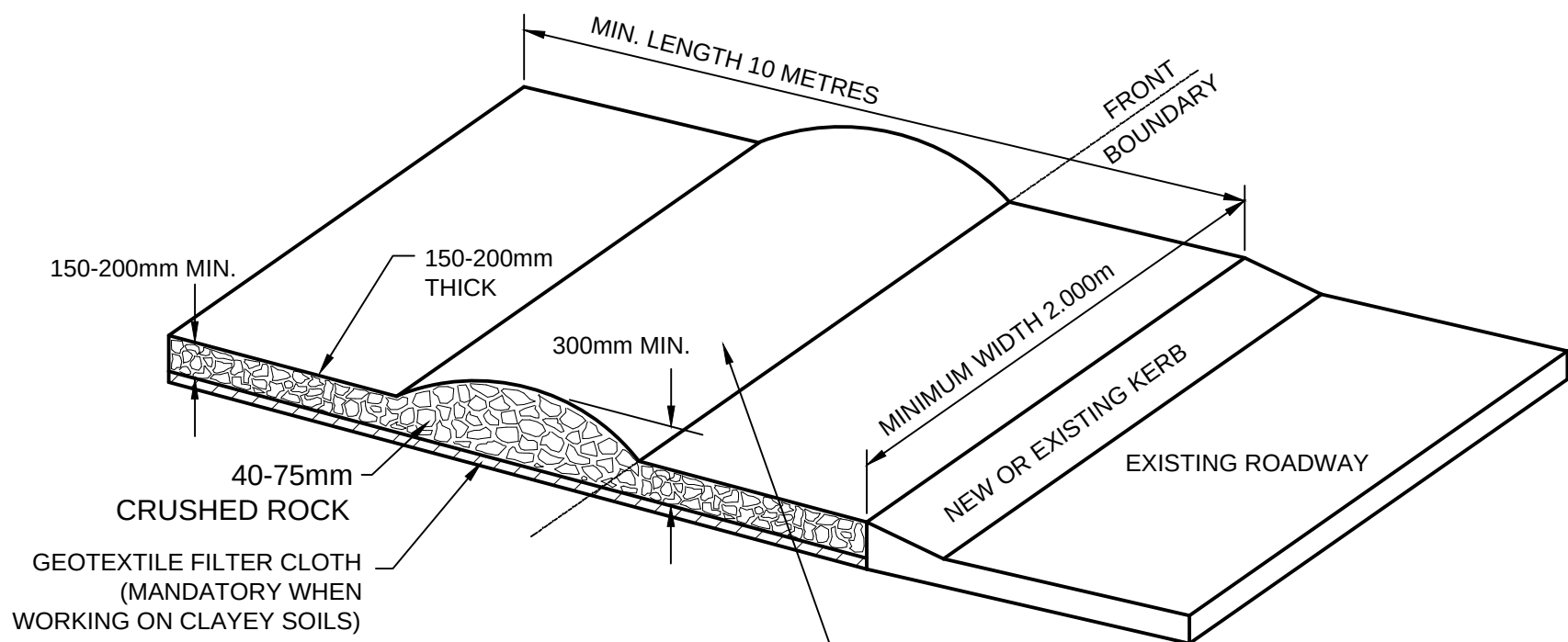
FIELD INLET SEDIMENT TRAP
N.T.S.



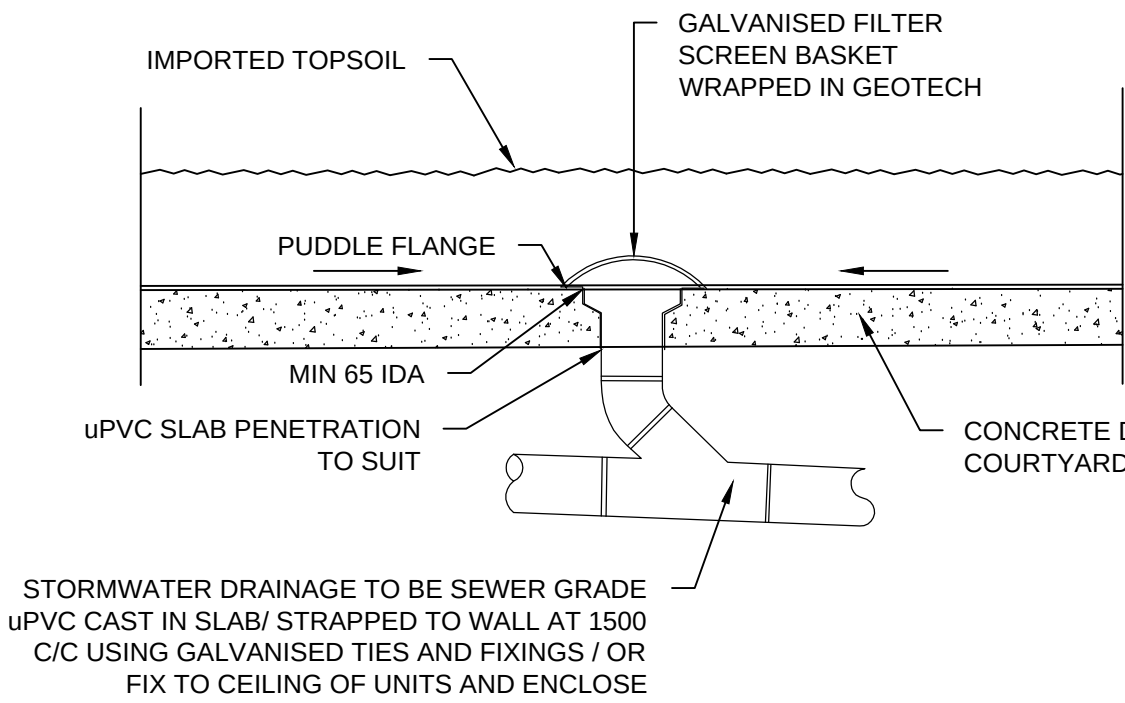
TYPICAL SUBSOIL DRAIN
N.T.S.



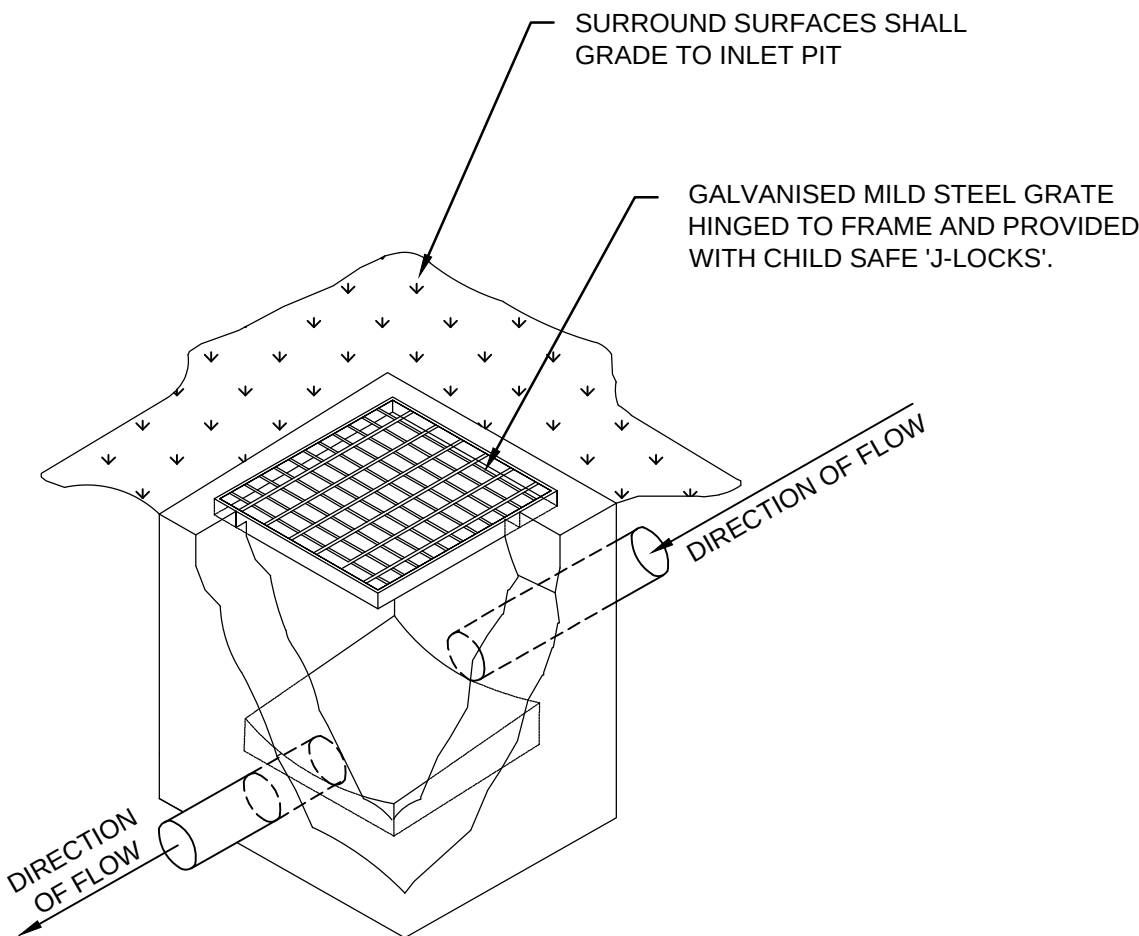
SPOON DRAIN SECTION DETAIL
SCALE 1:10



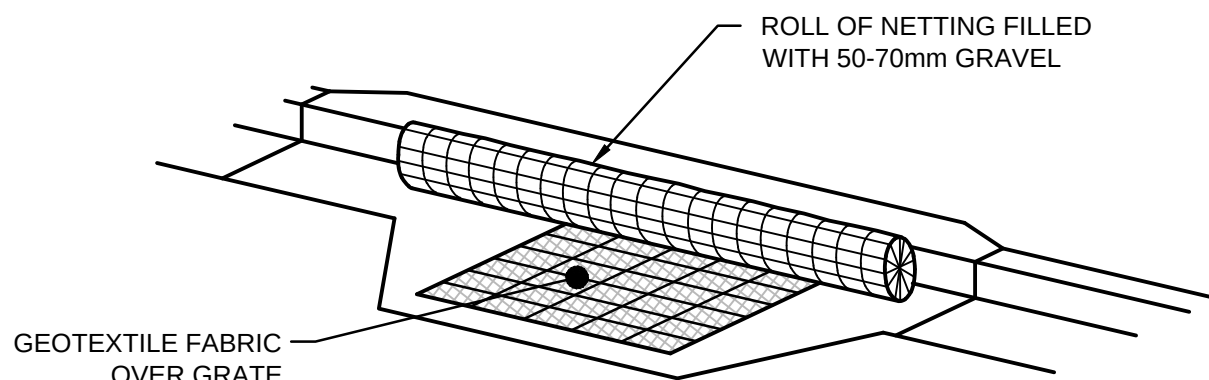
SHAKEDOWN DEVICE
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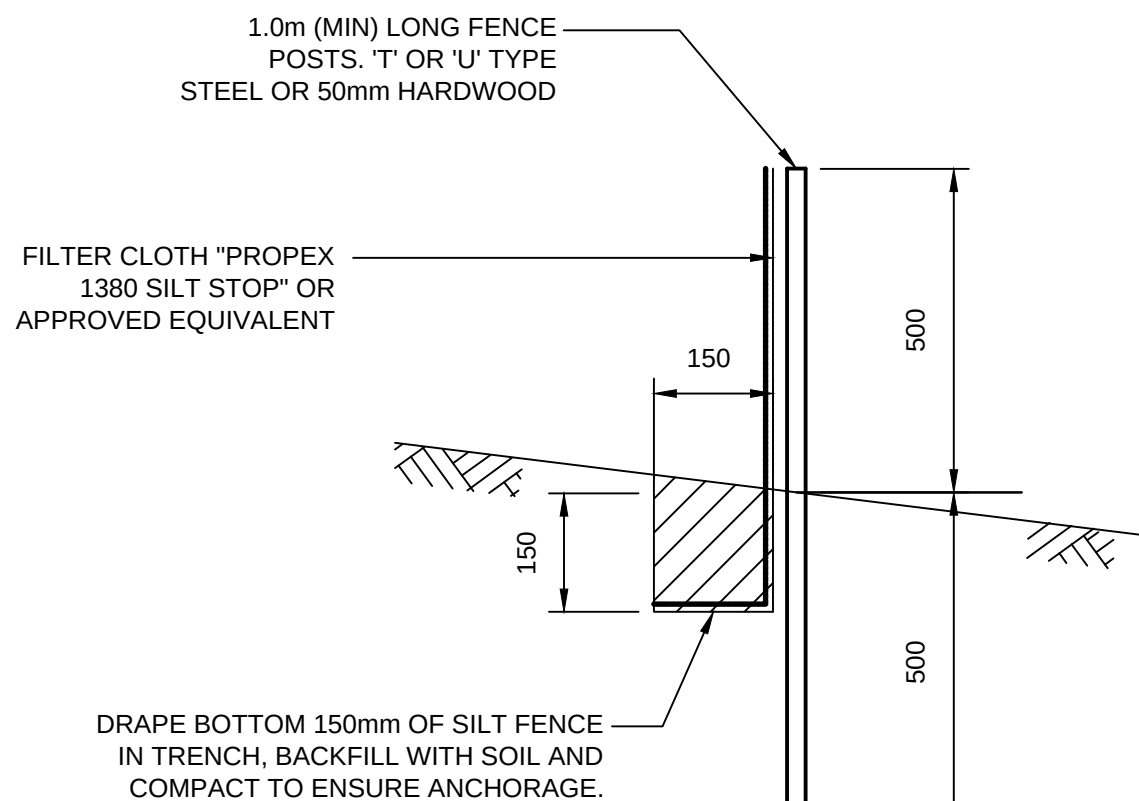
PLANTER GRATE DETAIL
N.T.S.



TYPICAL GRATED
INLET PIT DETAIL
N.T.S.



KERB INLET PROTECTION
SAG GULLIES
N.T.S.



SILT FENCE DETAIL
N.T.S.

SILT FENCE NOTES:

1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH GALVANISED WIRE TIES, STAPLES OR ATTACHMENT BELTS.
2. POSTS SHOULD NOT BE SPACED MORE THAN 3.0m APART.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150mm AND FOLDED.
4. FOR EXTRA STRENGTH TO SILT FENCE, WOVEN WIRE (14mm GAUGE, 150mm MESH SPACING) TO BE FASTENED SECURELY BETWEEN FILTER CLOTH AND POSTS BY WIRE TIES OR STAPLES
5. INSPECTIONS SHALL BE PROVIDED ON A REGULAR BASIS, ESPECIALLY AFTER RAINFALL AND EXCESSIVE SILT DEPOSITS REMOVED WHEN 'BULGES' DEVELOP IN SILT FENCE
6. SEDIMENT FENCES SHALL BE CONSTRUCTED WITH SEDIMENT TRAPS AND EMERGENCY SPILLWAYS AT SPACINGS NO GREATER THAN 40m ON FLAT TERRAIN DECREASING TO 20m SPACINGS ON STEEP TERRAIN.

NOT FOR CONSTRUCTION

C	COUNCIL COMMENTS	23/04/2021	AGN	JSF
B	COUNCIL COMMENTS	11/02/2021	AGN	JSF
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	AGN	JSF
Issue	Description	Date	Design	Checked

Certification By Dr. Anthony Hasham (NPER)

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Council
Hornsby
City Council

Scale
0 200 400 600mm
SCALE 1:10 @ A1



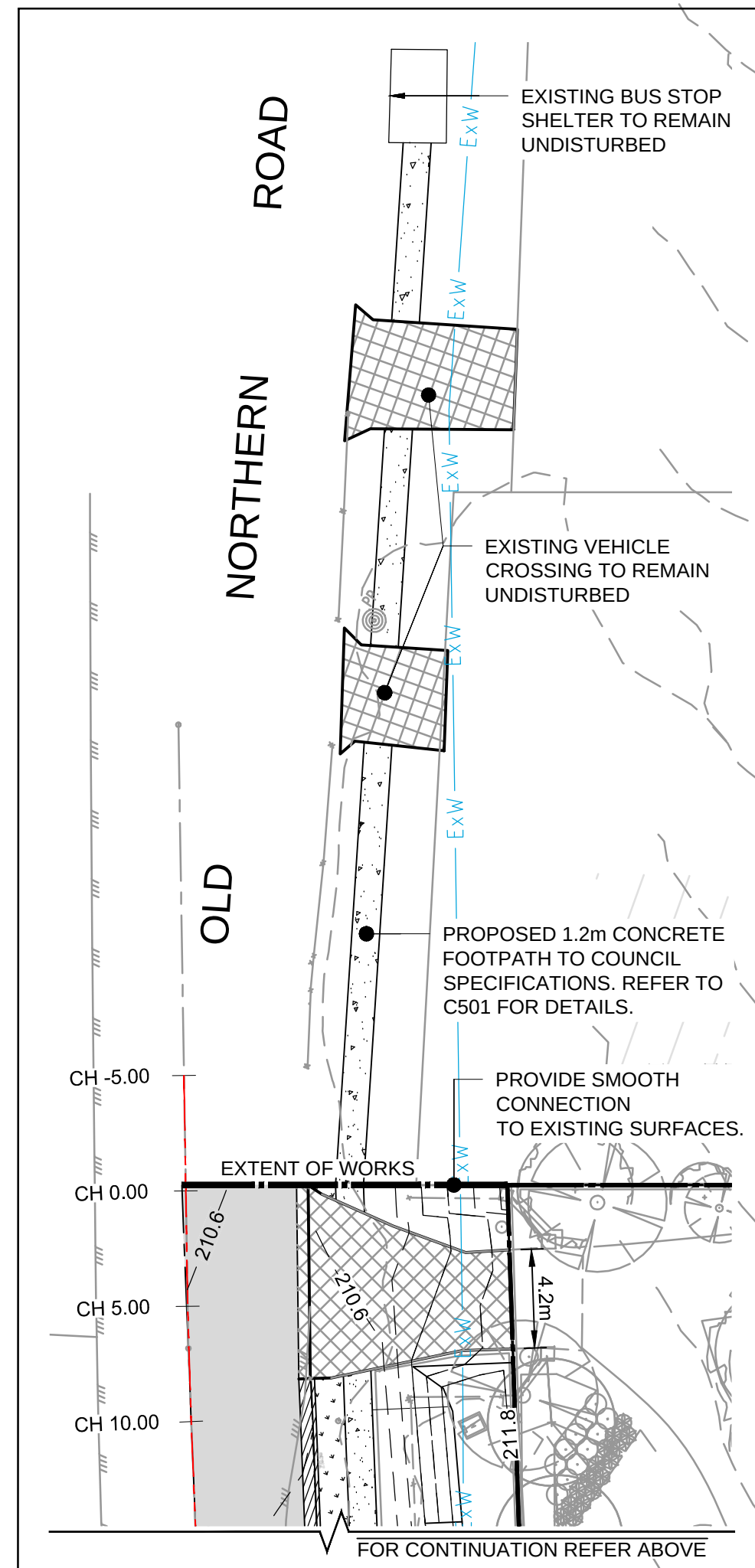
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Project
669 OLD NORTHERN ROAD, DURAL
PROPOSED MARONITE CATHOLIC CHURCH
STORMWATER CONCEPT PLANS
DEVELOPMENT APPLICATION

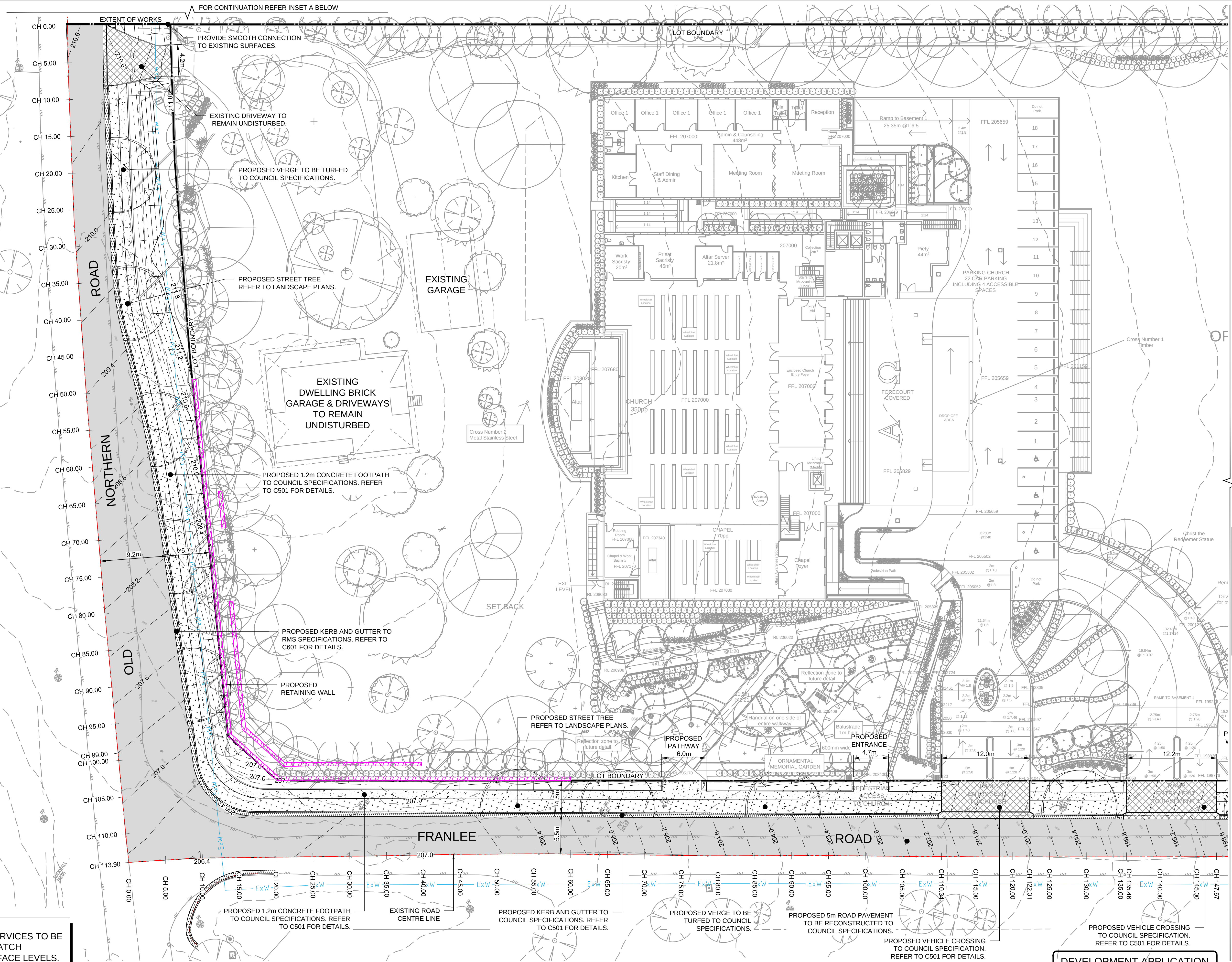
Drawing Title	MISCELLANEOUS DETAILS SHEET
Scale	A1 As Shown
Project No.	200762
Dwg. No.	107
Issue	C

LEGEND

- LOT BOUNDARY
- PROPOSED KERB & GUTTER
- PROPOSED CONTROL LINE & LINE OF SAWCUT
- DESIGN CONTOURS
- PROPOSED VERGE
- PROPOSED DRIVEWAY
- PROPOSED CONCRETE FOOTPATH
- PROPOSED ROAD PAVEMENT
- PROPOSED RETAINING WALL
- PROPOSED LANDSCAPE TREES
- EXISTING ROAD CENTRE LINE
- EXISTING EDGE OF BITUMEN
- EXISTING CONTOURS
- EXISTING KERB & GUTTER
- EXISTING WATER MAIN



NOTE:
ALL EXISTING SERVICES TO BE
ADJUSTED TO MATCH
PROPOSED SURFACE LEVELS.



Issue	Description	Date	Design	Manager
B	ISSUE FOR DEVELOPMENT APPLICATION	07/04/2021	P.T.	J.B.
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.

Certification By:

Architect

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Scale

0 2 4 6 8 10 12 m

SCALE 1:250 @ A1

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Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

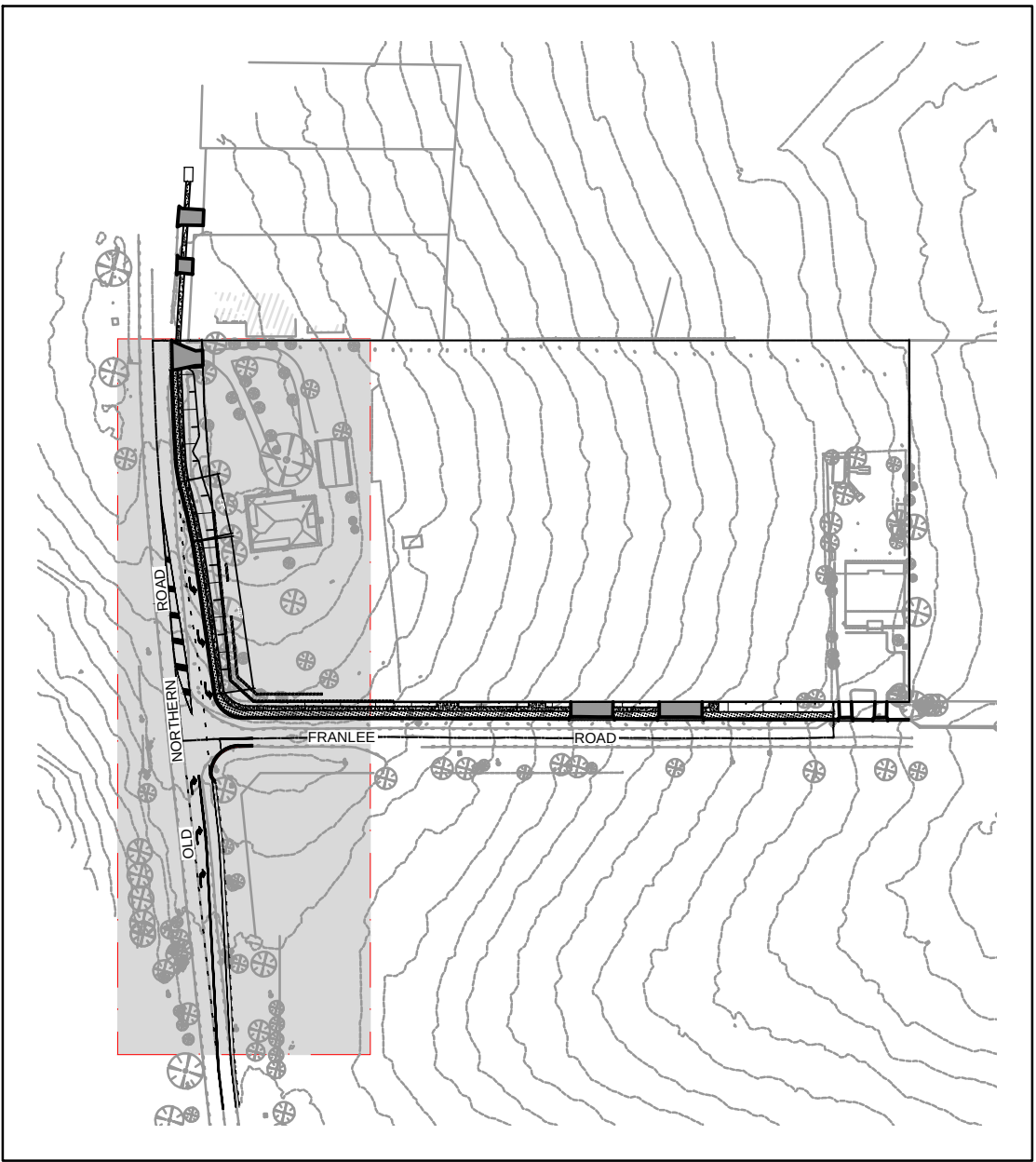
Drawing Title

CIVIL WORKS LAYOUT PLAN
SHEET 1 OF 2

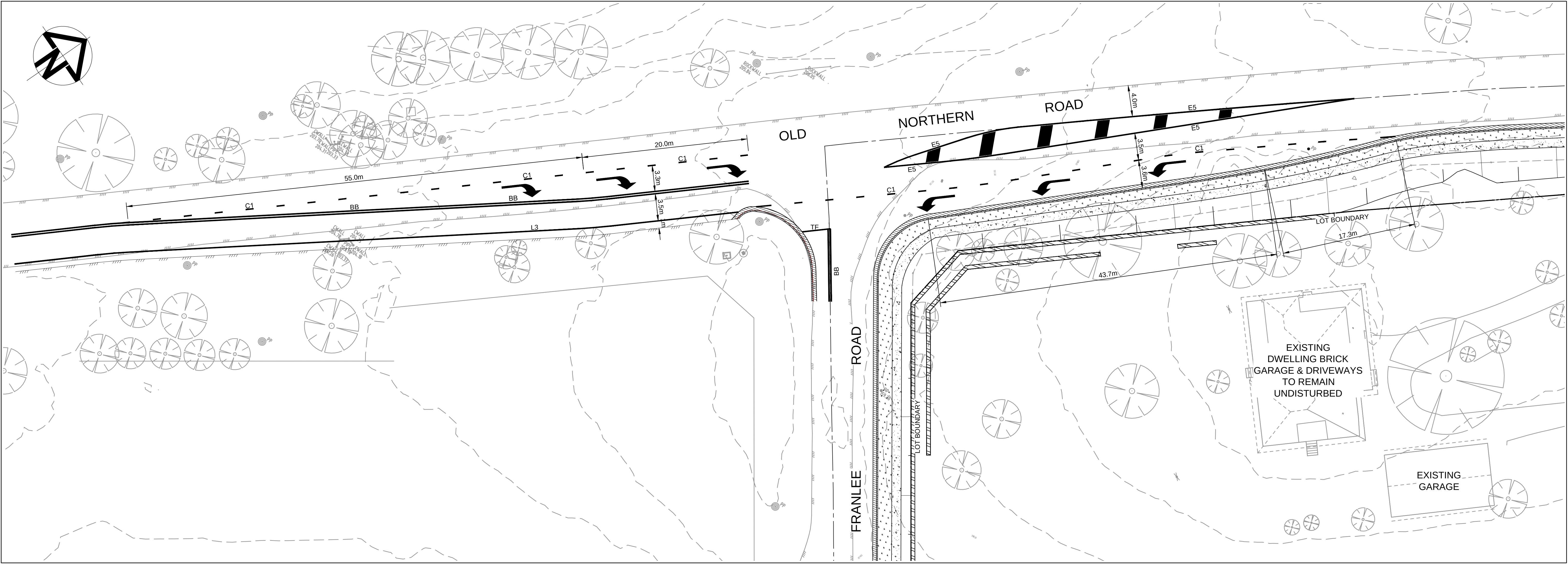
Scale A1 Project No. 200762 Dwg. No. C101 Issue B

LEGEND

	LOT BOUNDARY		EXISTING ROAD CENTERLINE
	PROPOSED KERB & GUTTER		EXISTING KERB & GUTTER
	PROPOSED EDGE OF BITUMEN		EXISTING CONTOURS
	CONTINUITY LINE		EXISTING BITUMEN
	EDGES OF THE CARRIAGEWAY		EXISTING TREES TO BE RETAINED
	STOP/ HOLD LINE		
	UNBROKEN LANE LINE		
	PROPOSED BB LINEMARKING		



KEY PLAN
N.T.S.



NOTE:
FOR GENERAL NOTES REFER TO
DRG No. ACE171359.CIV.CC.000

NOTE:
ALL WORKS SHOWN ON THIS PLAN
ARE SUBJECT TO SEPARATE
APPROVAL BY FAIRFIELD COUNCIL.

DEVELOPMENT APPLICATION

A		ISSUE FOR DEVELOPMENT APPLICATION		02/11/2020	P.T.	J.B.
Issue	Description	Date	Design	Manager		
1	0	1cm at full size	10cm	20cm		

Certification By:

Architect

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47 110310 333

Scale

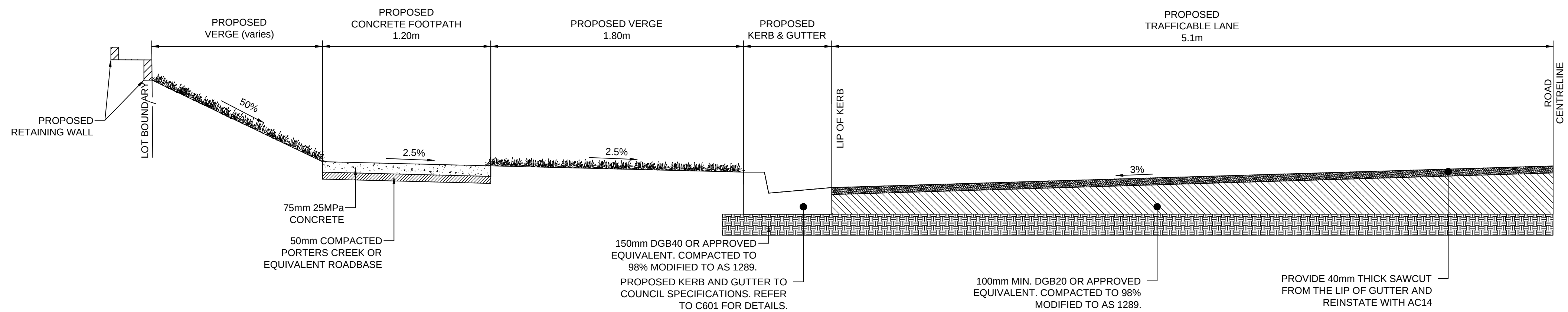
SCALE 1:250 @ A1

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Project

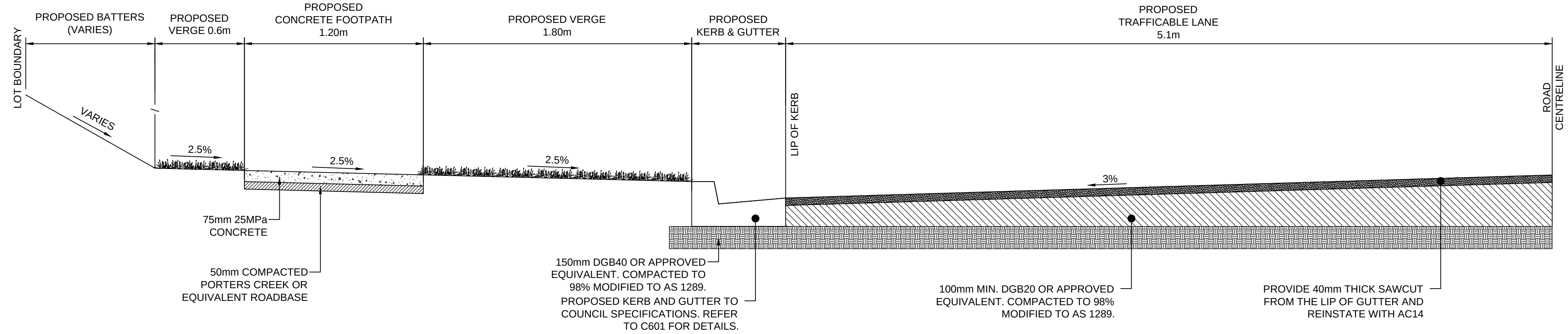
669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title			
INTERSECTION DESIGN PLAN			
Scale	A1	Project No.	Dwg. No.
C301		200762	C103
		Issue	A



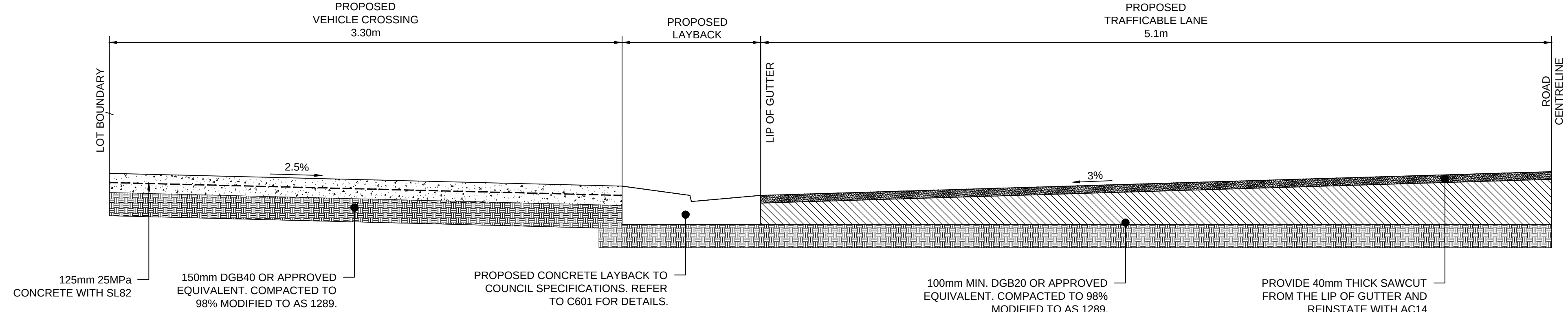
TYPICAL FOOTPATH CROSS SECTION - FRANLEE ROAD (CH 20 - CH 55)

SCALE 1:20



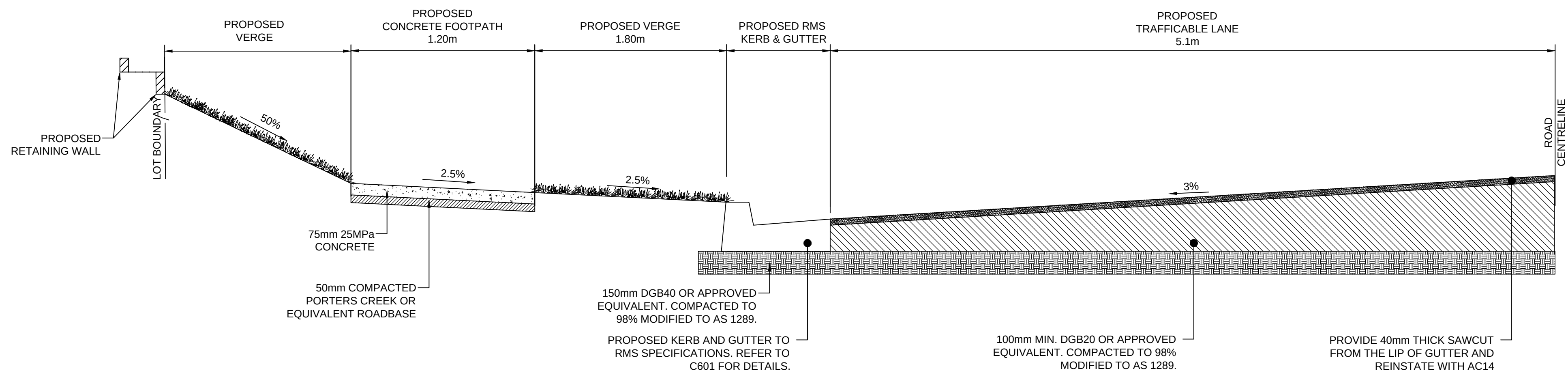
TYPICAL FOOTPATH CROSS SECTION - FRANLEE ROAD (CH 55 - CH 98.07)

SCALE 1:20



TYPICAL VEHICLE CROSSING - FRANLEE ROAD

SCALE 1:20



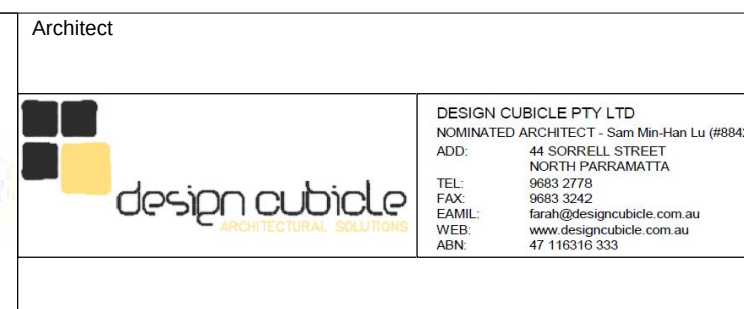
TYPICAL FOOTPATH CROSS SECTION - OLD NORTHERN ROAD

SCALE 1:20

DEVELOPMENT APPLICATION

Issue	Description	Date	Design	Manager
B	ISSUE FOR DEVELOPMENT APPLICATION	20/01/2021	P.T.	J.B.
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.

Certification By: 

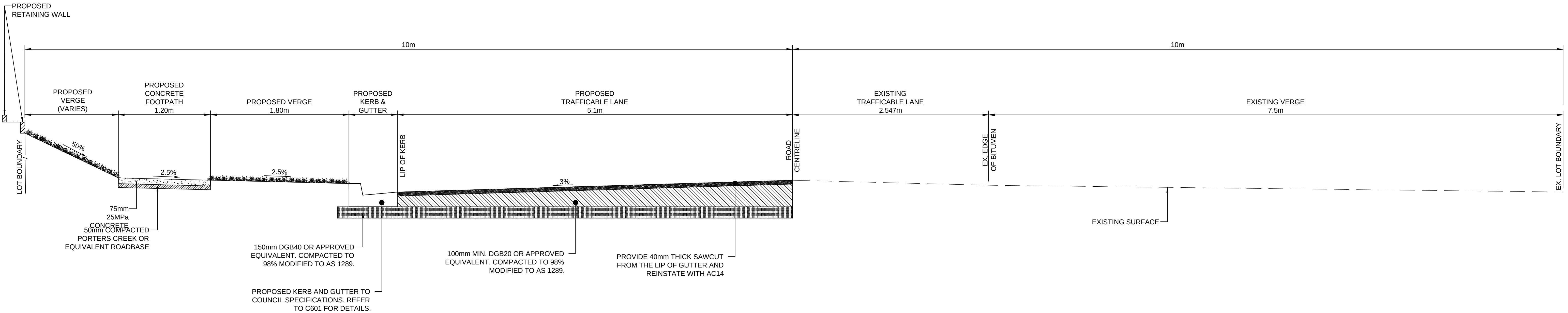
Architect

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Scale
0 400 800 1200 mm
SCALE 1:20 @ A1


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Project
669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title	Scale	A1	Project No.	Dwg. No.	Issue
TYPICAL CROSS SECTIONS SHEET 1 OF 2	1:20		200762	C201	B



TYPICAL ROAD SECTION - FRANLEE ROAD
SCALE 1:25

DEVELOPMENT APPLICATION

A	ISSUE FOR DEVELOPMENT APPLICATION	12/02/2021	P.T.	J.B.	
Issue	Description	Date	Design	Manager	
1	0	1cm at full size	10cm	20cm	

Certification By:

Architect

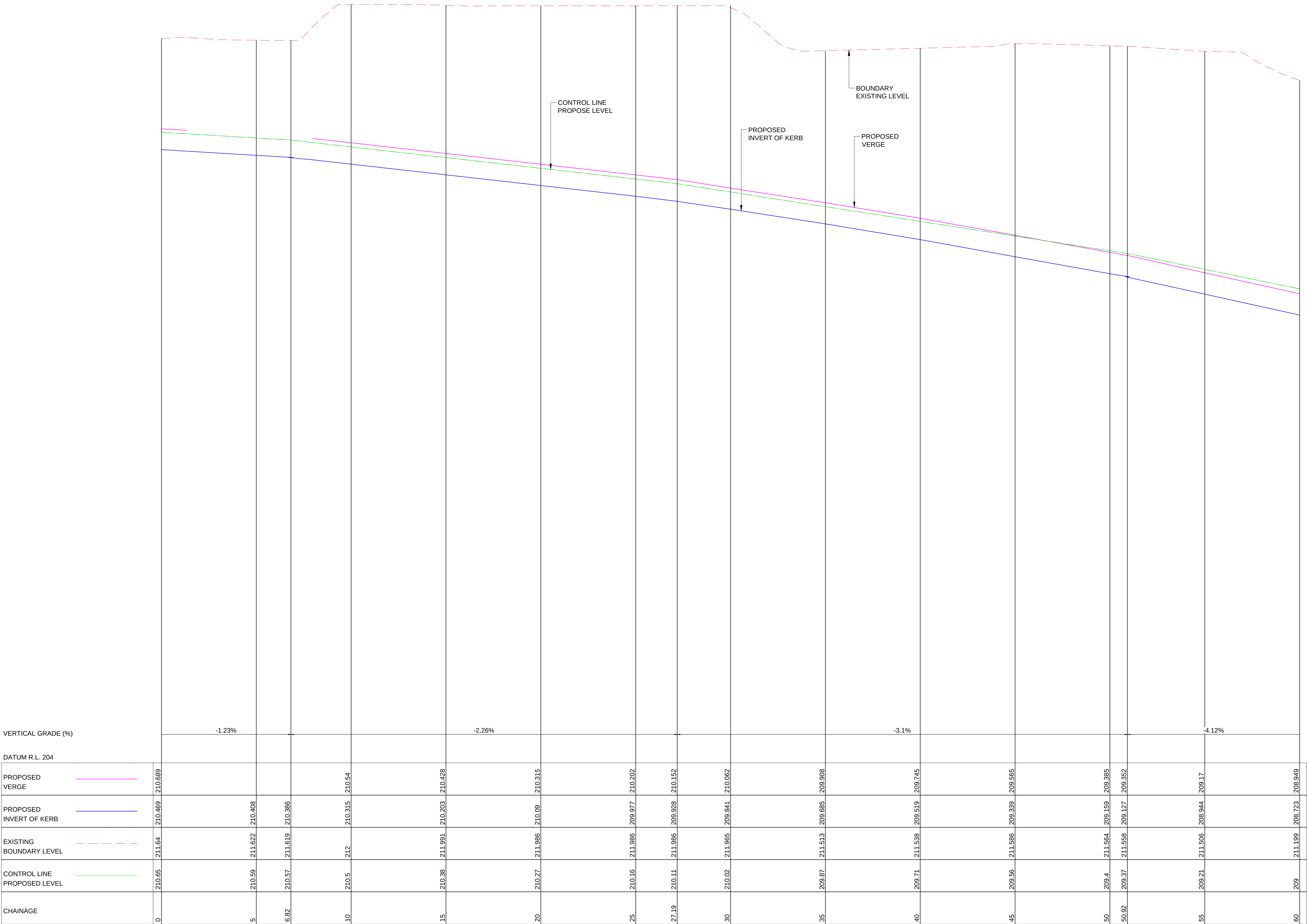
DESIGN CUBICLE PTY LTD
NOMINATED ARCHITECT - Sam Mei Han Lu (98842)
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NORTH PARRAMATTA
9503 2770
TEL: FAX:
EMAIL: sam@designcubicle.com.au
WEB: www.designcubicle.com.au
ABN: 47 110310 333

Scale
0 0.2 0.4 0.6 0.8 1.0 1.2m
SCALE 1:25 @ A1

AUSTRALIAN CONSULTING ENGINEERS.
PTY LTD - A.C.N. 084 059 941
LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150
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Project
669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title	TYPICAL CROSS SECTIONS SHEET 2 OF 2			
Scale	A1	Project No.	Dwg. No.	Issue
1:25		200762	C202	A



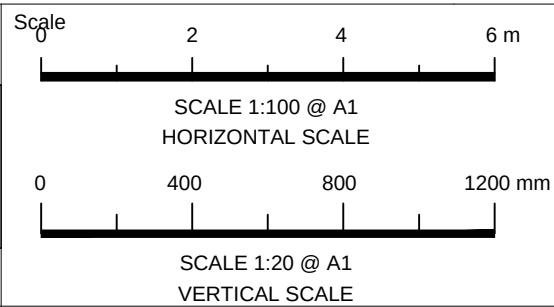
DEVELOPMENT APPLICATION

A		ISSUE FOR DEVELOPMENT APPLICATION		02/11/2020	P.T.	J.B.
Issue	Description	Date	Design	Manager		
1	0	1cm at full size	10cm	20cm		

Certification By:

Architect

DESIGN CUBICLE PTY LTD
REGISTERED ARCHITECT - Sam Mo-Han Lu (98842)
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NSW 2150
TEL: 9653 2729
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WEB: www.designcubicle.com.au
ABN: 47 110310 333

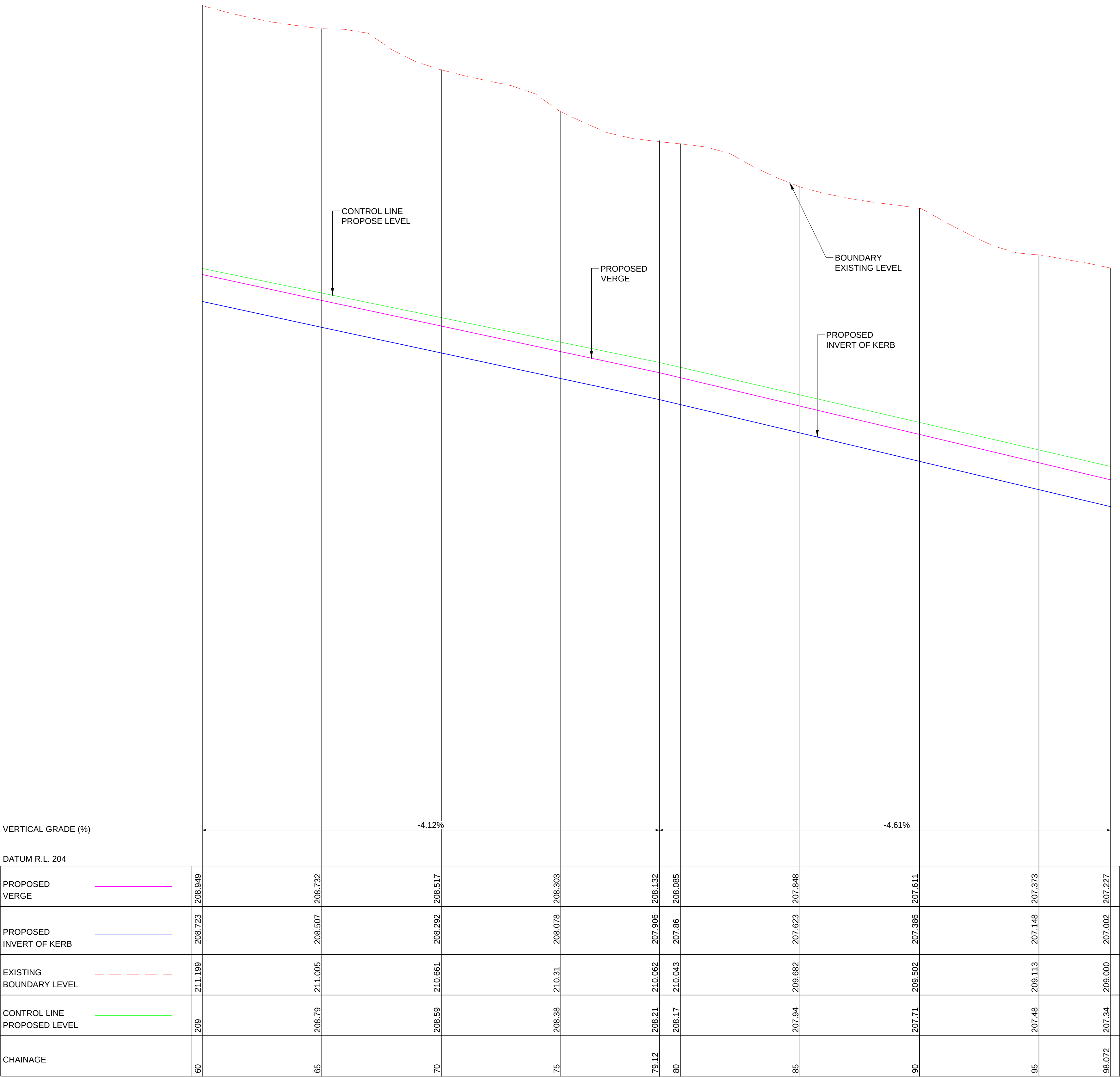


AUSTRALIAN CONSULTING ENGINEERS.
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Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title		OLD NORTHERN ROAD LONGITUDINAL SECTION SHEET 1 OF 2	
Scale	A1 AS SHOWN	Project No.	200762
Dwg. No.	C301	Issue	A



OLD NORTHERN ROAD - LONGITUDINAL SECTION
SCALE (H) 1:100
(V) 1:20

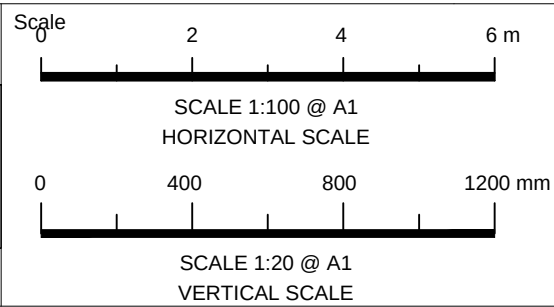
DEVELOPMENT APPLICATION

A	ISSUE FOR DEVELOPMENT APPLICATION		02/11/2020	P.T.	J.B.
Issue	Description	Date	Design	Manager	
1	0	1cm at full size	10cm	20cm	

Certification By:

design cubicle

DESIGN CUBICLE PTY LTD
INCORPORATED ARCHITECT - Sam Ma-Han Lu (98842)
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NORTH PARRAMATTA
9883 2778
9883 3262
EMAIL: sam@designcubicle.com.au
WEB: www.designcubicle.com.au
ABN: 47 110310 333



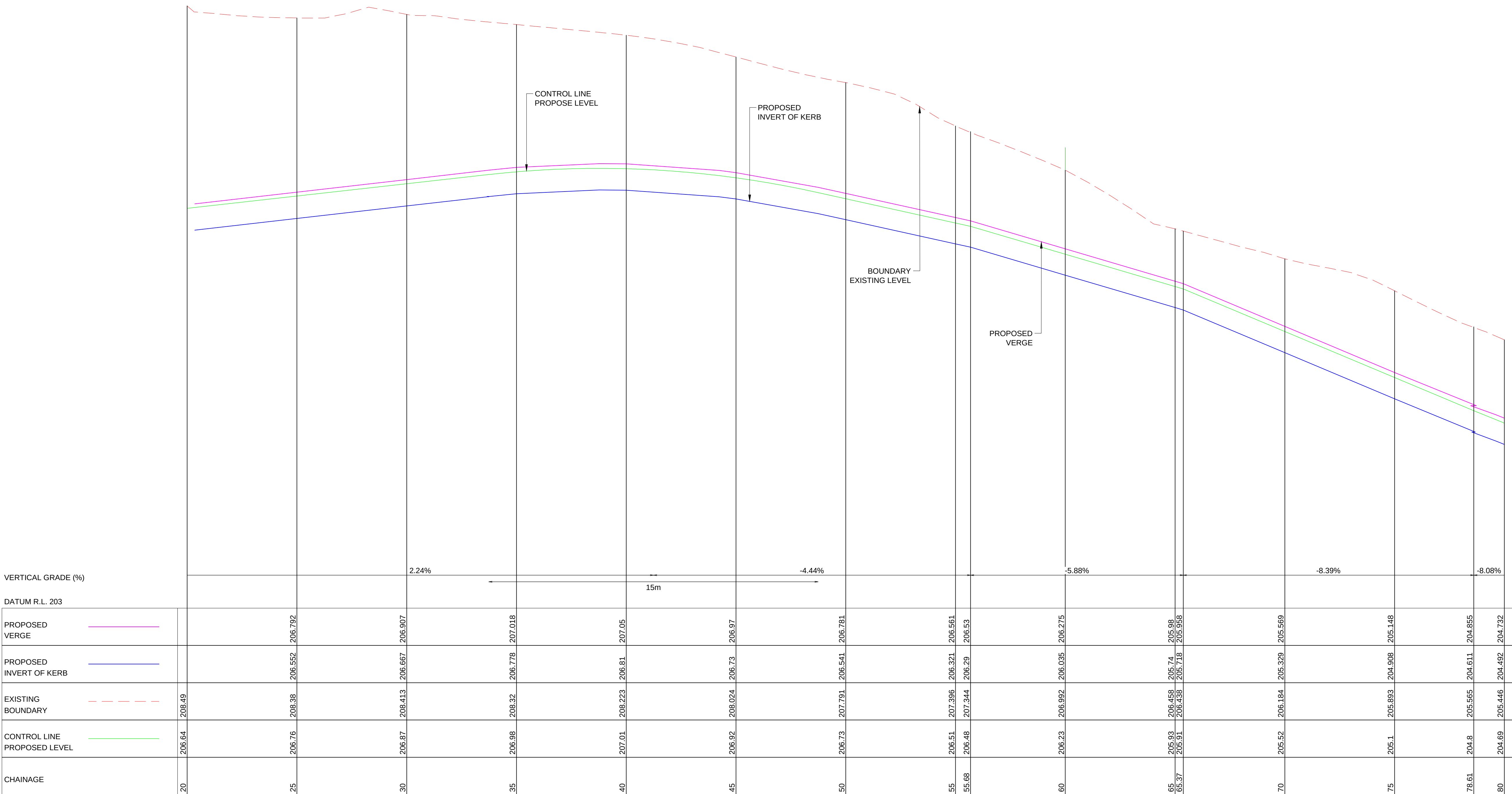
AUSTRALIAN CONSULTING ENGINEERS

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Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title			
OLD NORTHERN ROAD LONGITUDINAL SECTION SHEET 2 OF 2			
Scale	A1 AS SHOWN	Project No.	200762
Dwg. No.	C302	Issue	A



FRANLEE ROAD - LONGITUDINAL SECTION
SCALE (H) 1:100
(V) 1:20

DEVELOPMENT APPLICATION

A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.	
Issue	Description	Date	Design	Manager	
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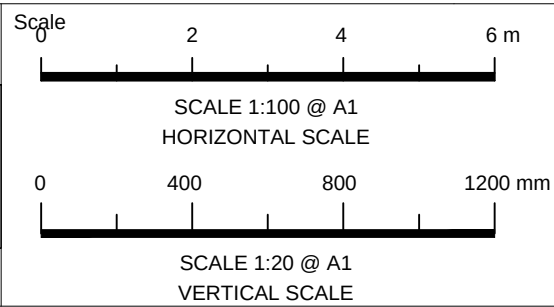
Certification By:

[Signature]

Architect

design cubicle

DESIGN CUBICLE PTY LTD
REGISTERED ARCHITECT - Sam Mei-Han Lu (98942)
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9503 2778
9503 2452
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ABN: 47 110310 333



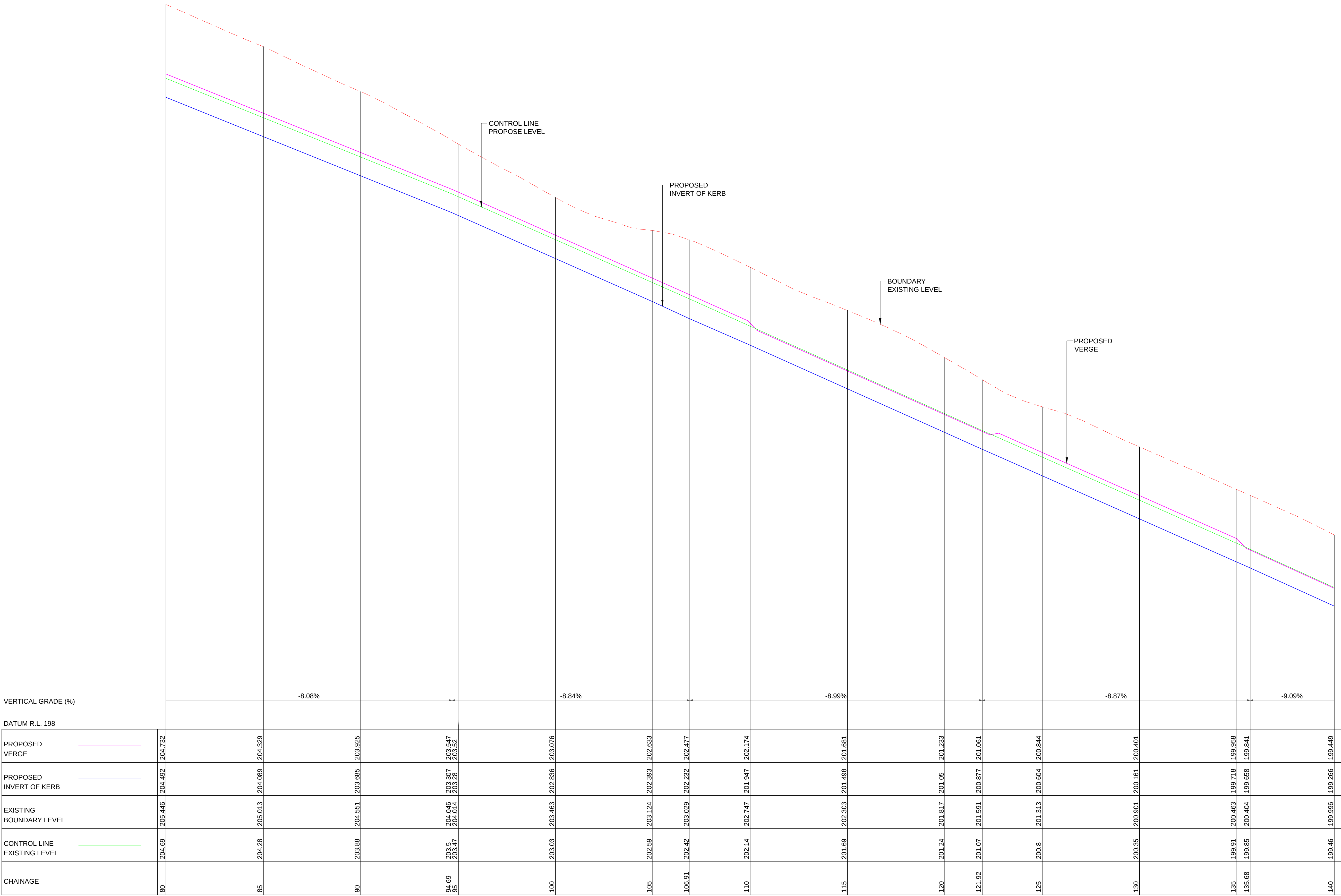
AUSTRALIAN CONSULTING ENGINEERS.

PTY LTD - A.C.N. 084 059 941
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Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title	FRANLEE ROAD LONGITUDINAL SECTION SHEET 1 OF 3	Scale	A1 AS SHOWN	Project No.	200762	Dwg. No.	C303	Issue	A
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FRANLEE ROAD - LONGITUDINAL SECTION
SCALE (H) 1:100
(V) 1:20

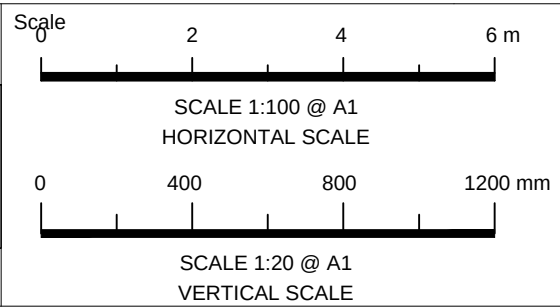
DEVELOPMENT APPLICATION

A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.	
Issue	Description	Date	Design	Manager	
1	0	1cm at full size	10cm	20cm	

Certification By:

design cubicle

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9650 3242
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WEB: www.designcubicle.com.au
ABN: 47 116310 333



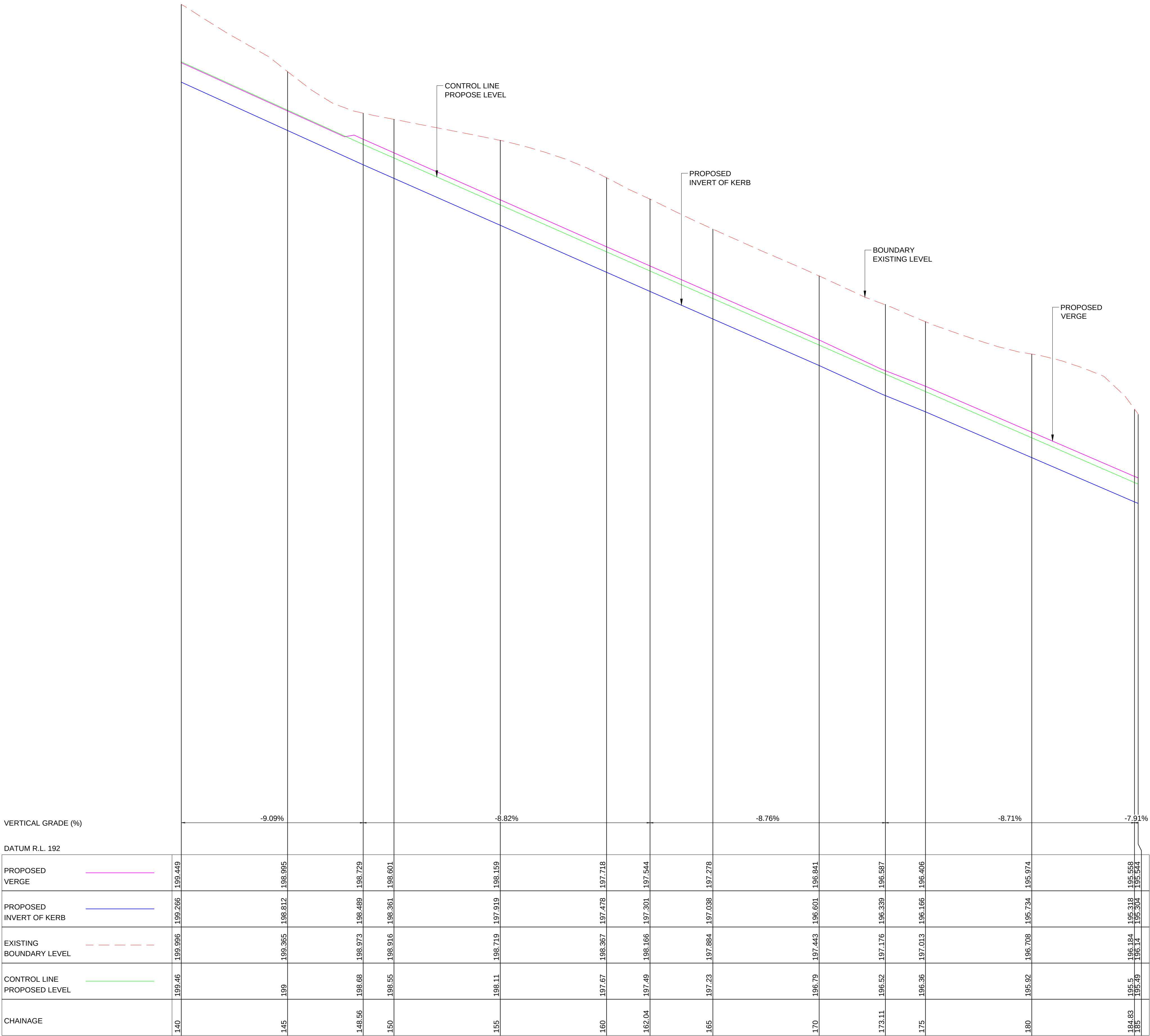
AUSTRALIAN CONSULTING ENGINEERS.

PTY LTD - A.C.N. 084 059 941
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Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title	FRANLEE ROAD LONGITUDINAL SECTION SHEET 2 OF 3			
Scale	A1 AS SHOWN	Project No.	200762	Dwg. No.
				C304
				Issue
				A



FRANLEE ROAD - LONGITUDINAL SECTION
SCALE (H) 1:100
(V) 1:20

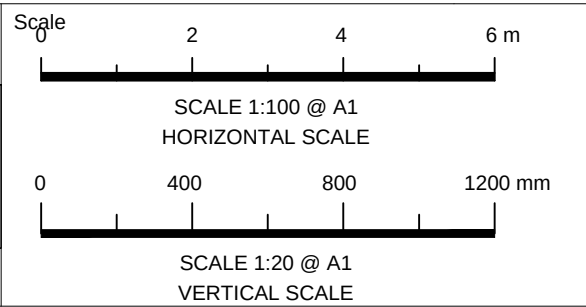
DEVELOPMENT APPLICATION

A					02/11/2020		P.T.	J.B.
Issue	Description	Date	Design	Manager				
1	0	1cm at full size	10cm	20cm				

Certification By:

design cubicle

DESIGN CUBICLE PTY LTD
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NSW 2150
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WEB: www.designcubicle.com.au
ABN: 47 110310 333



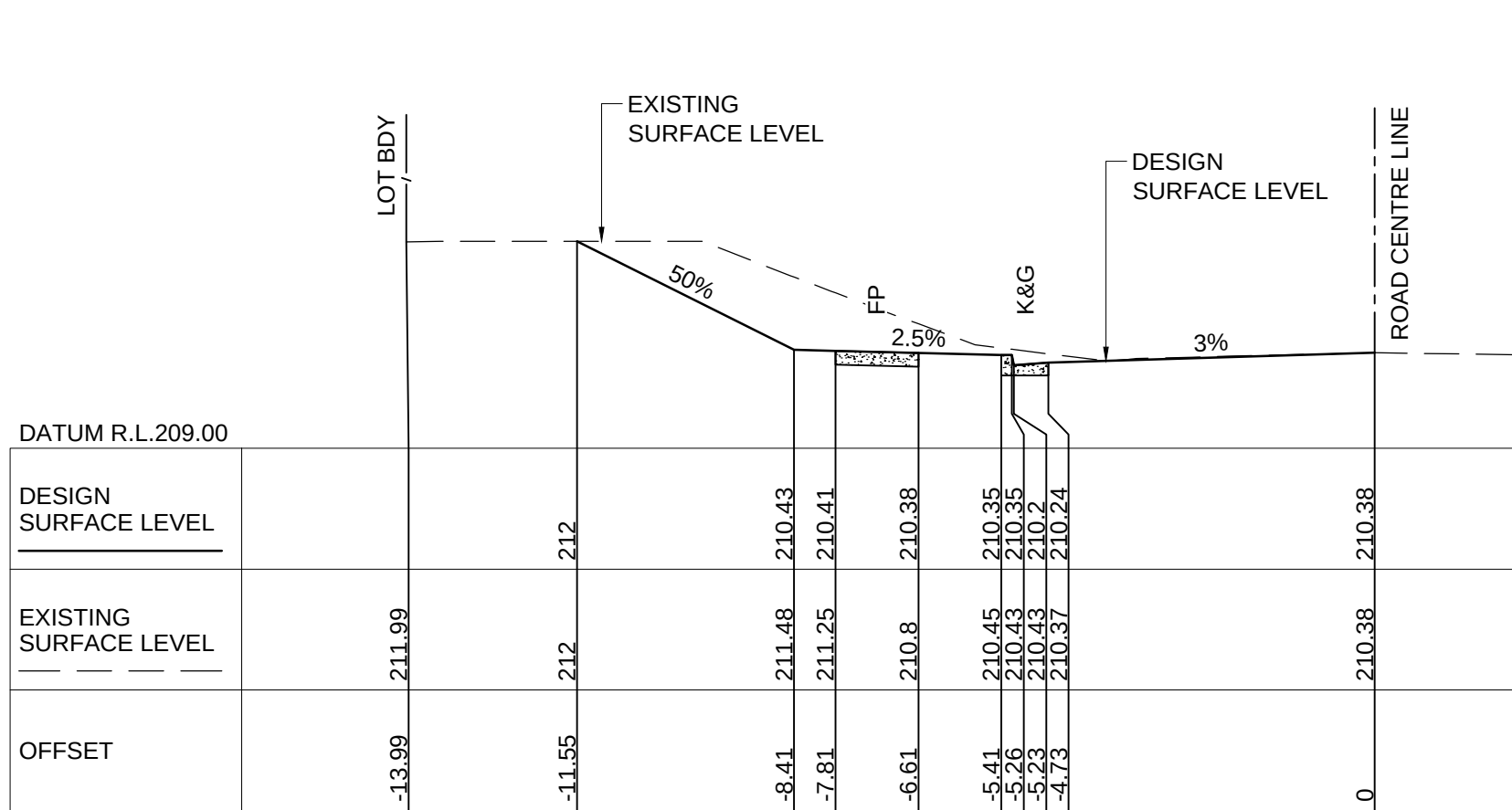
AUSTRALIAN CONSULTING ENGINEERS

PTY LTD - A.C.N. 084 059 941
LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150
PH: (02) 9763 1500 FX: (02) 9763 1515
EMAIL: info@acceeng.com.au

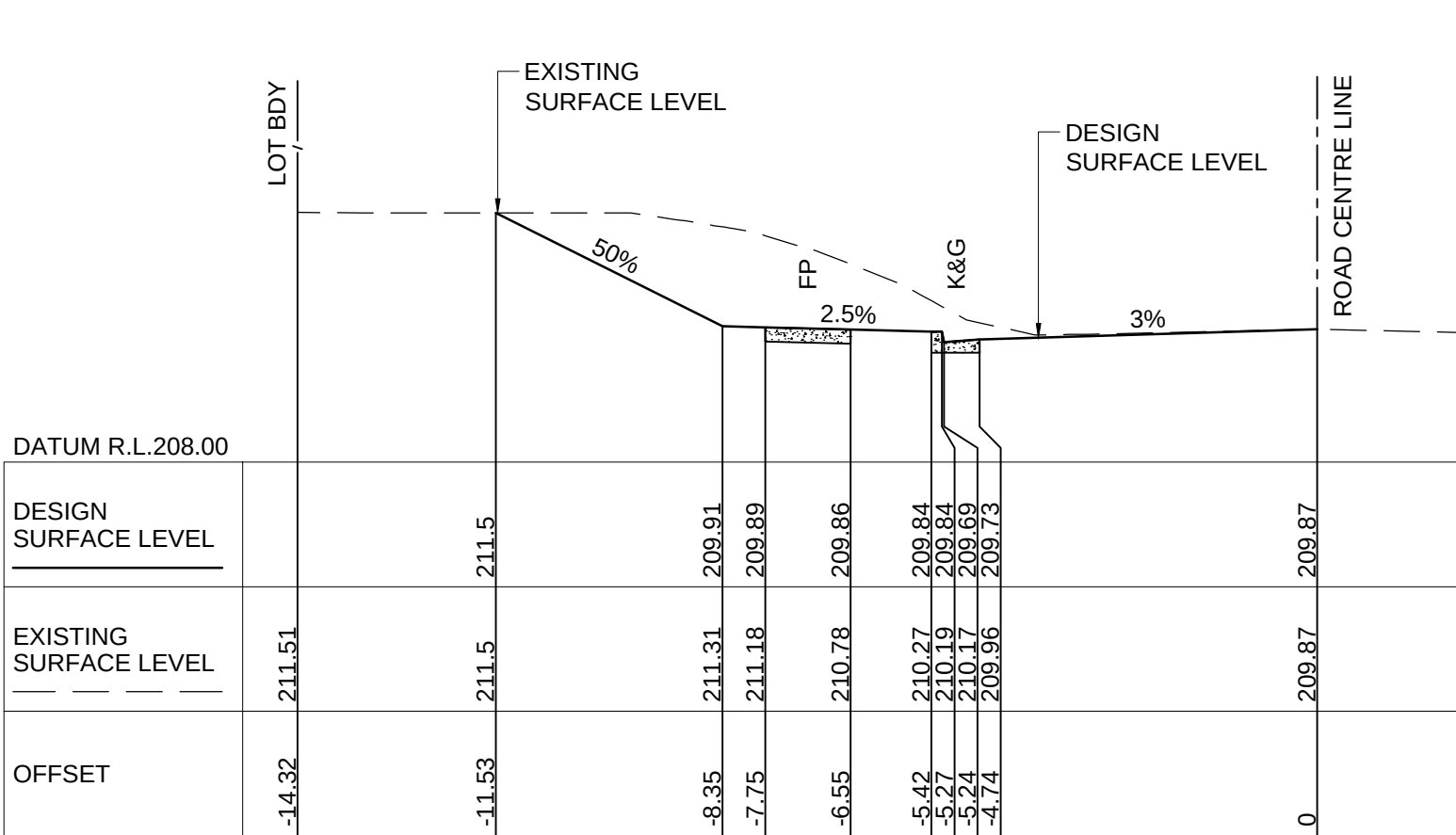
Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

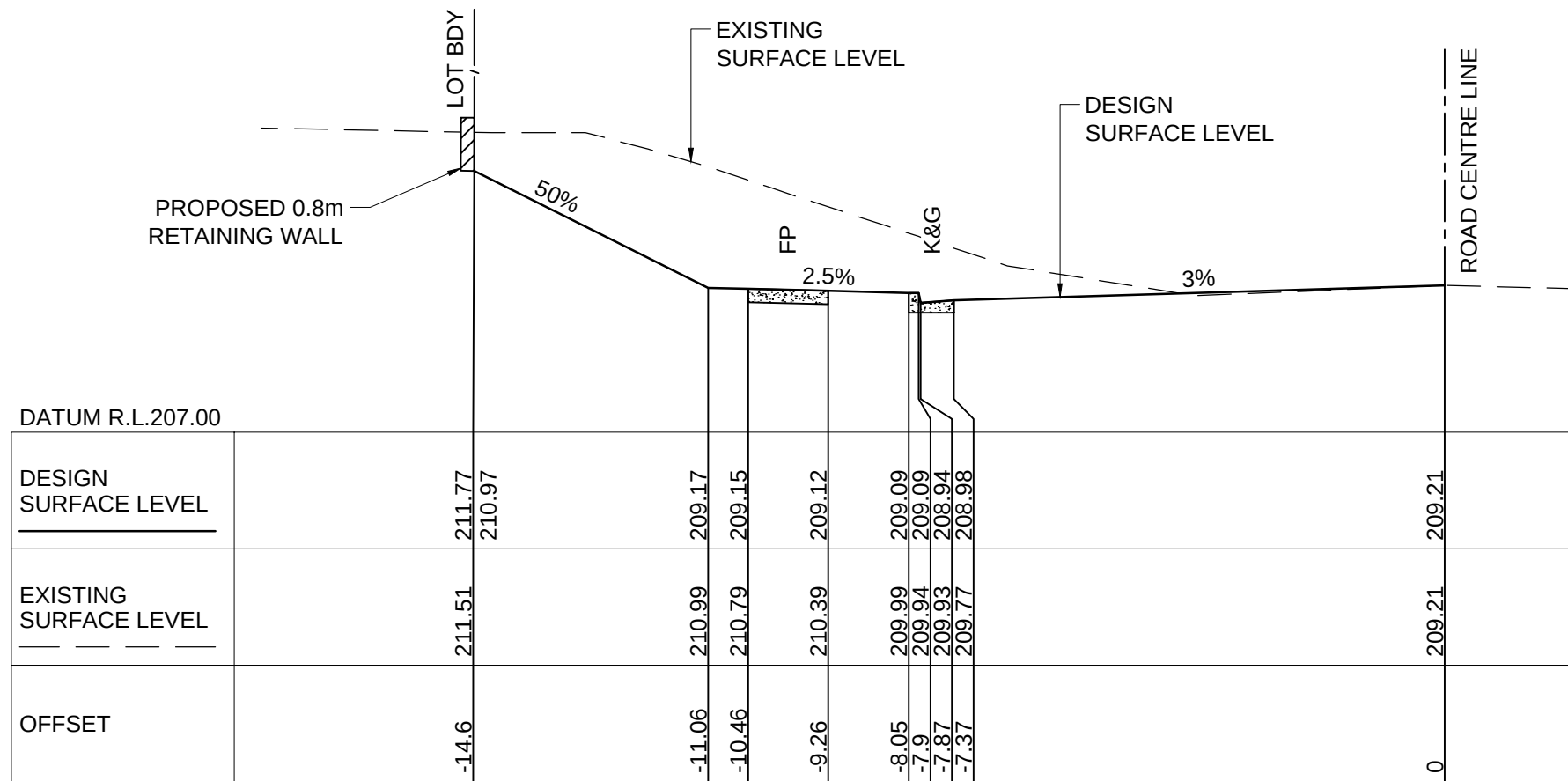
Drawing Title			
FRANLEE ROAD LONGITUDINAL SECTION SHEET 3 OF 3			
Scale	A1 AS SHOWN	Project No.	200762
Dwg. No.	C305	Issue	A



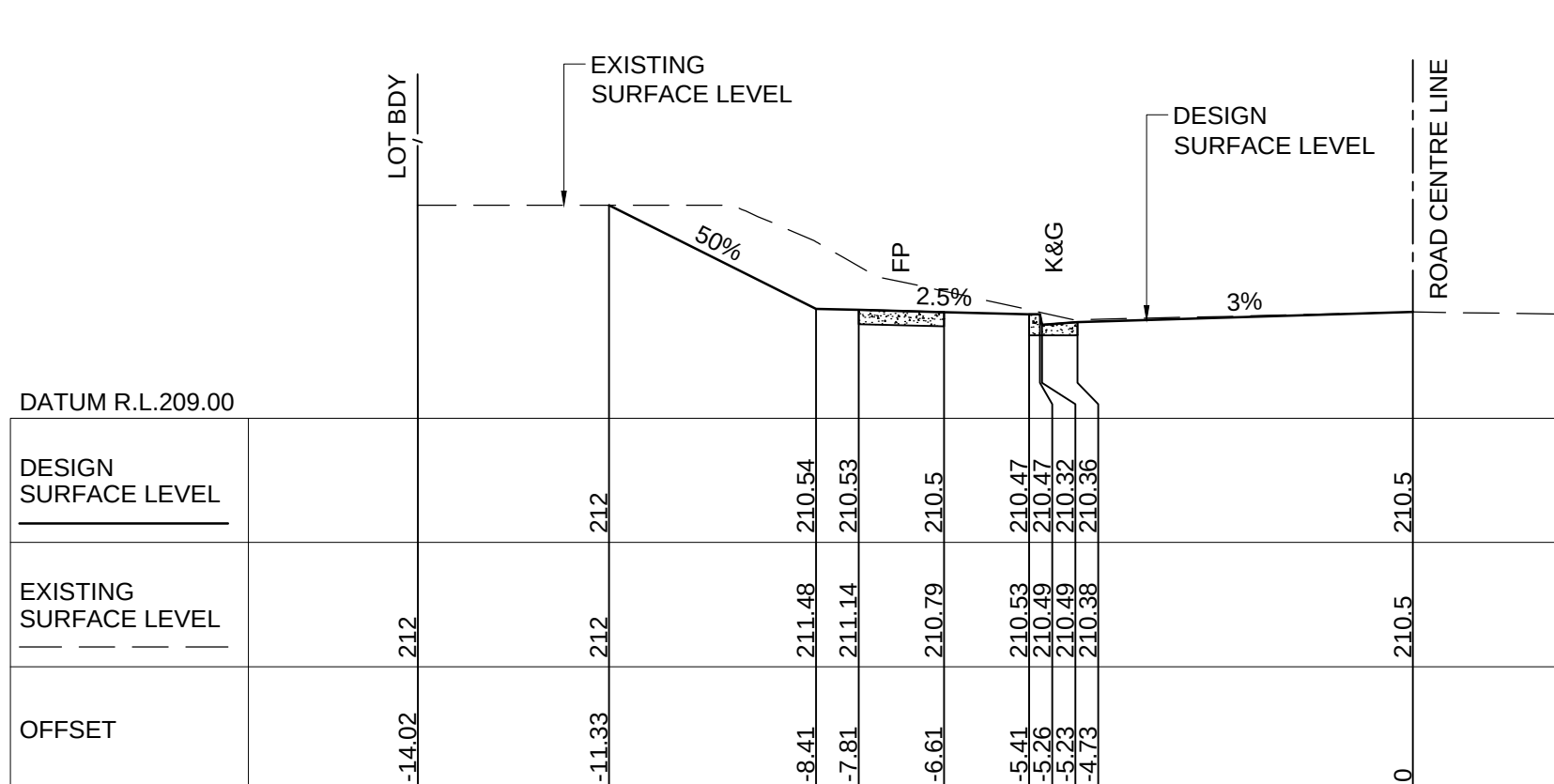
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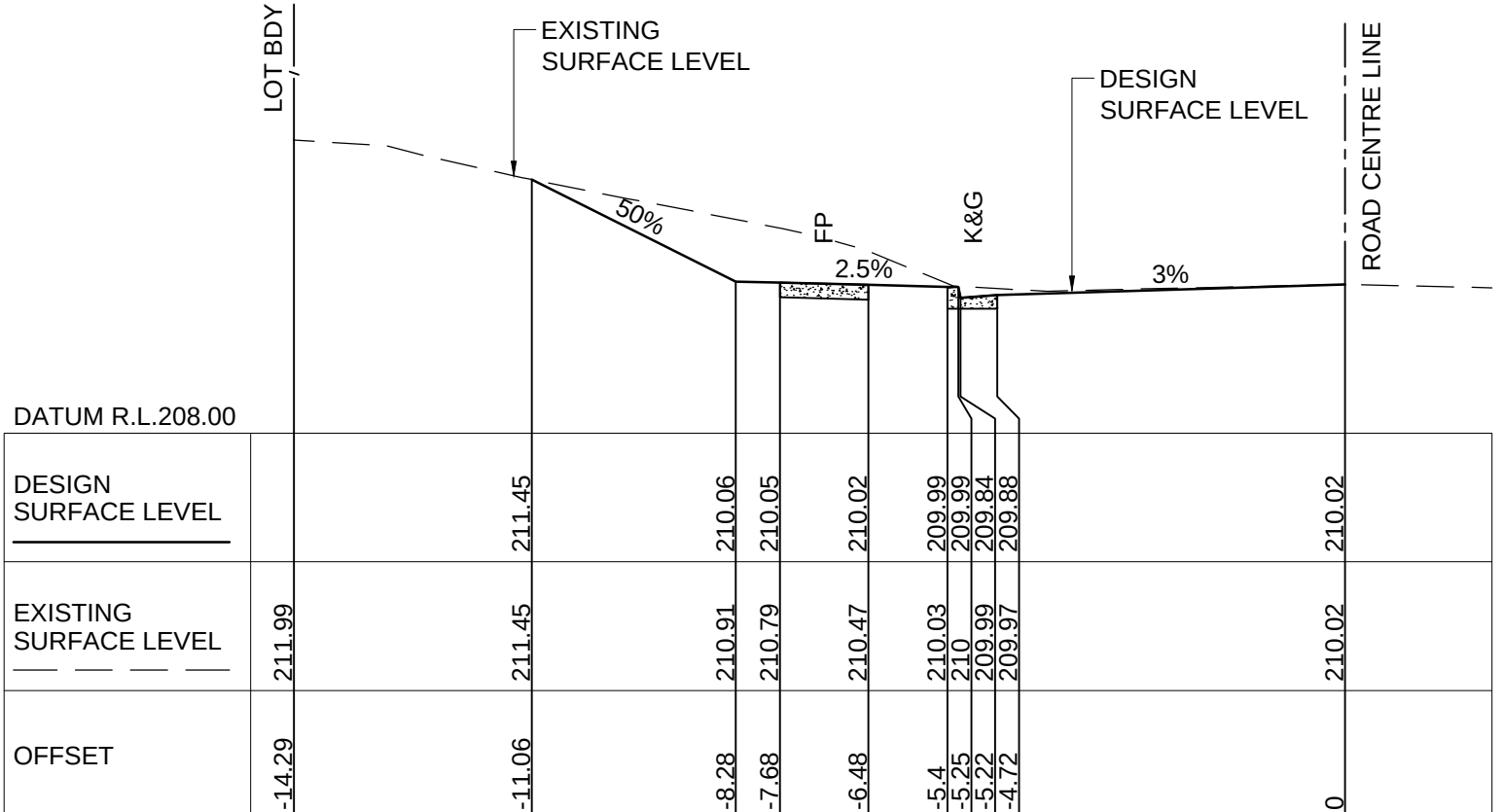
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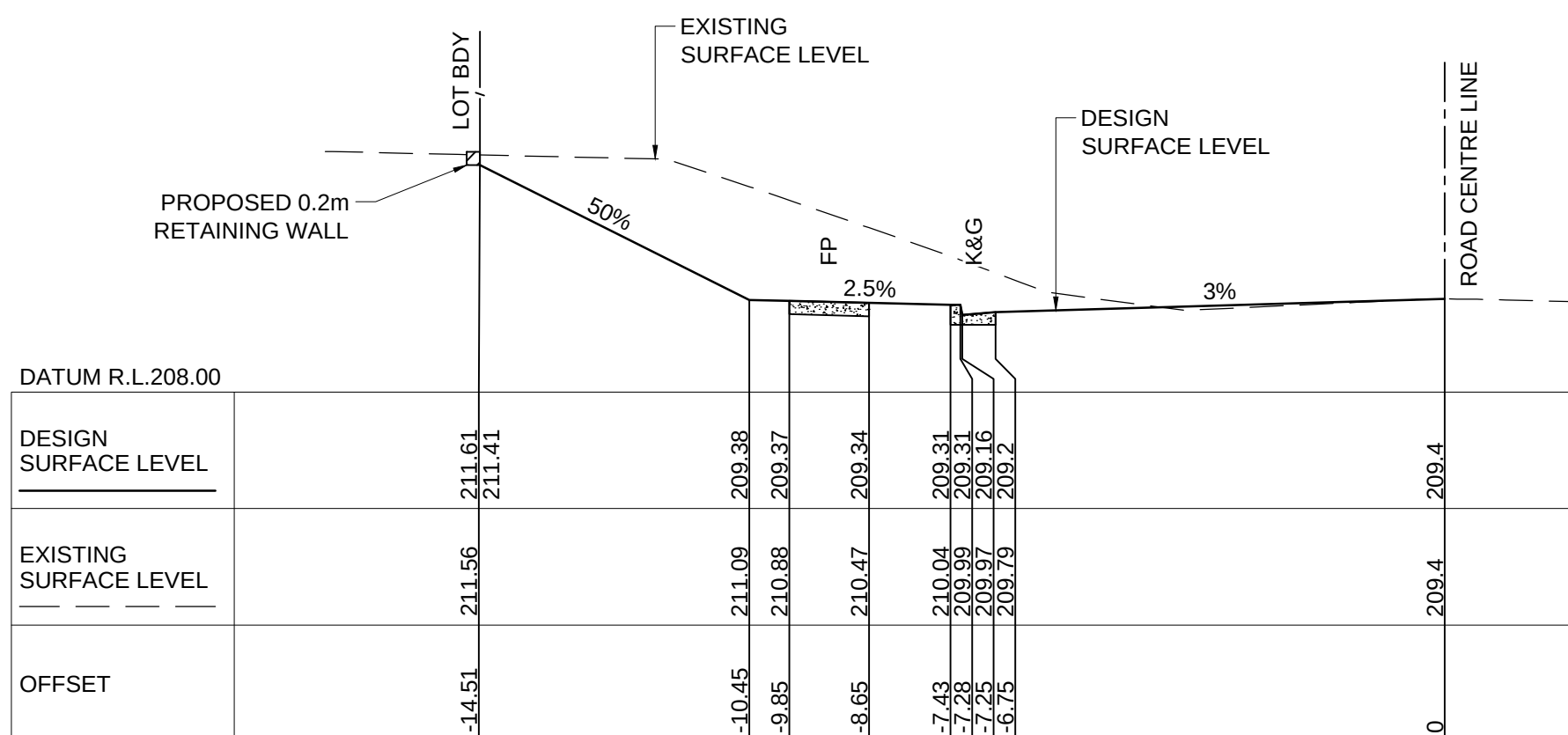
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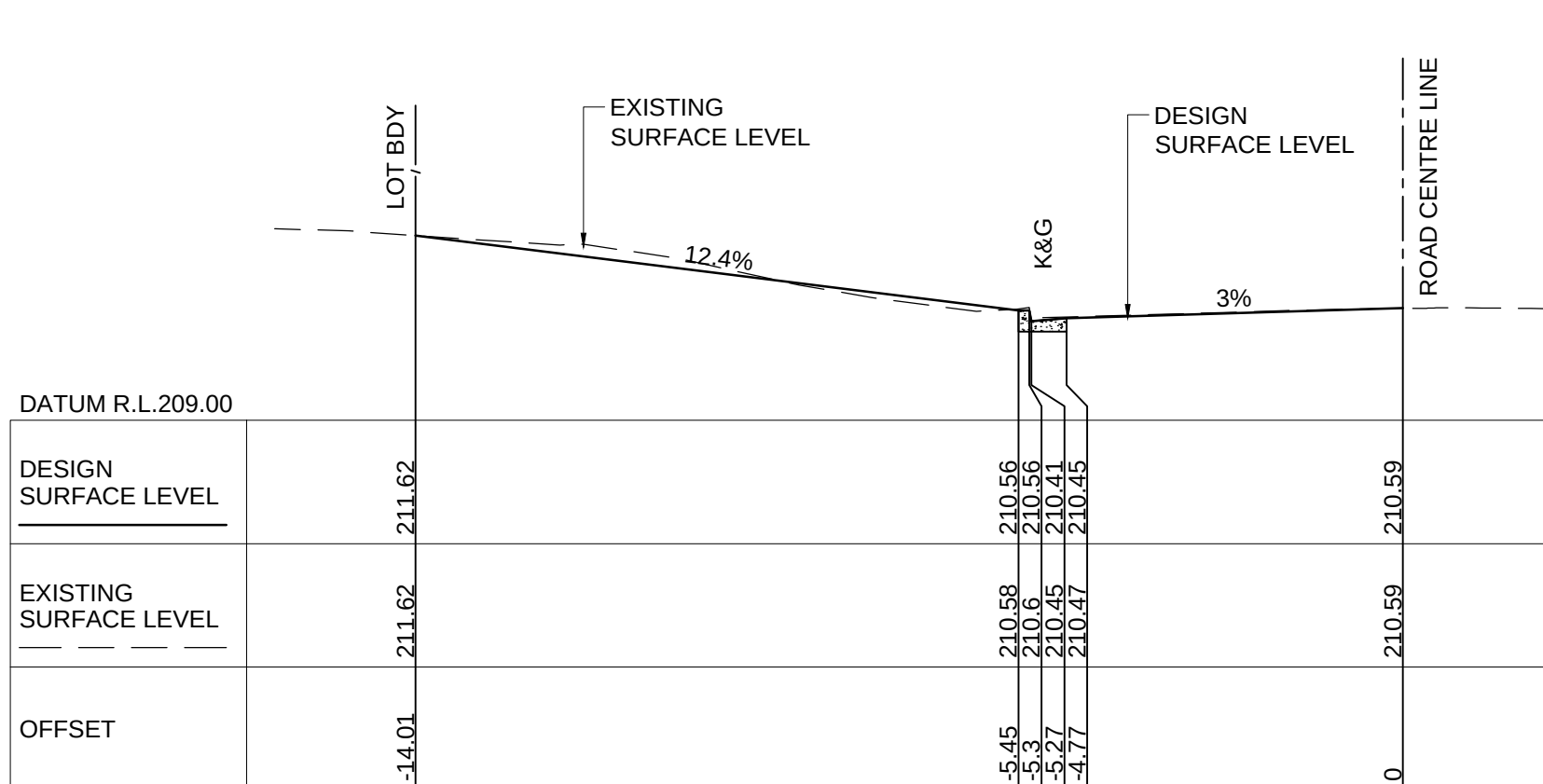
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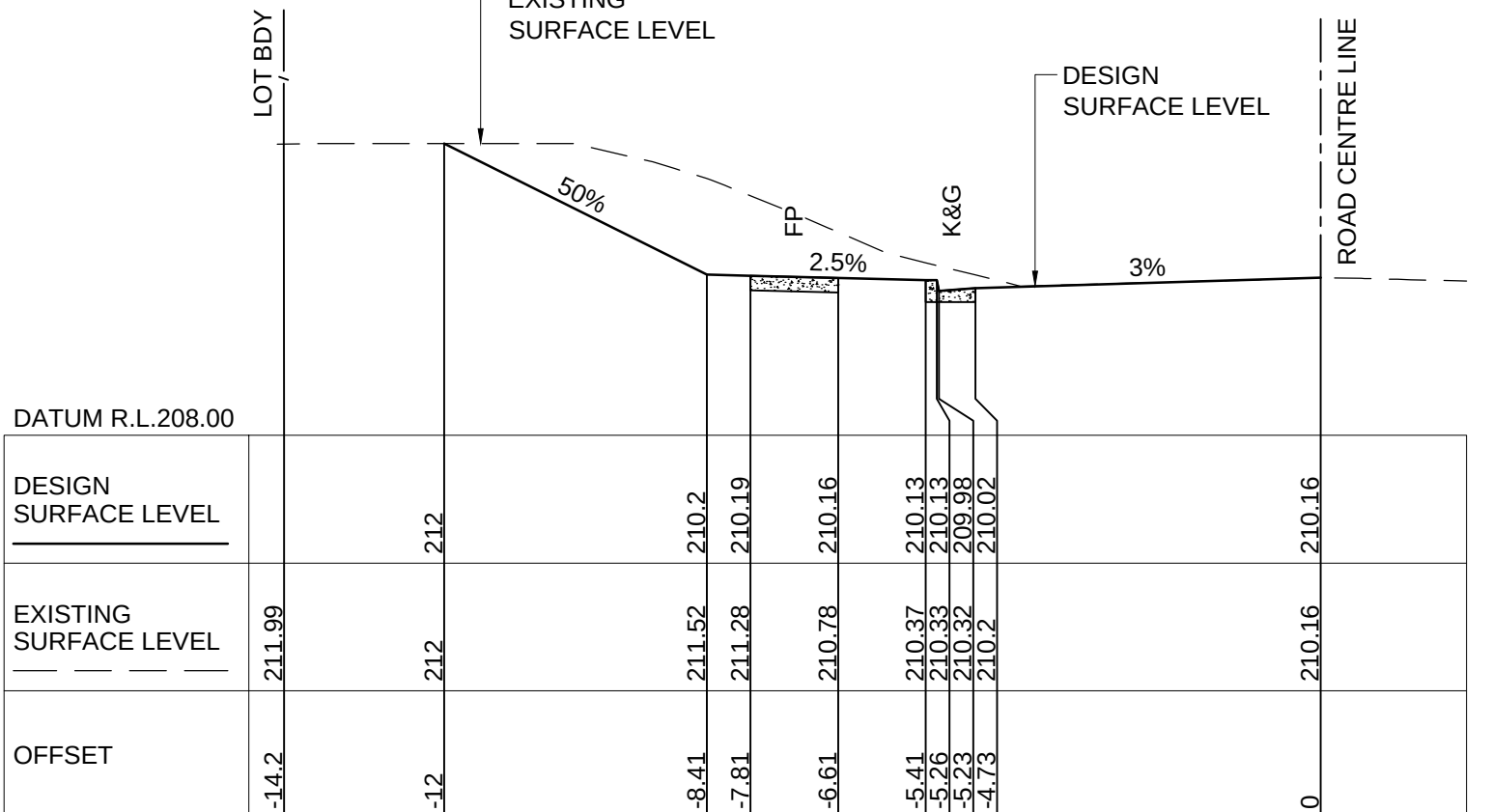
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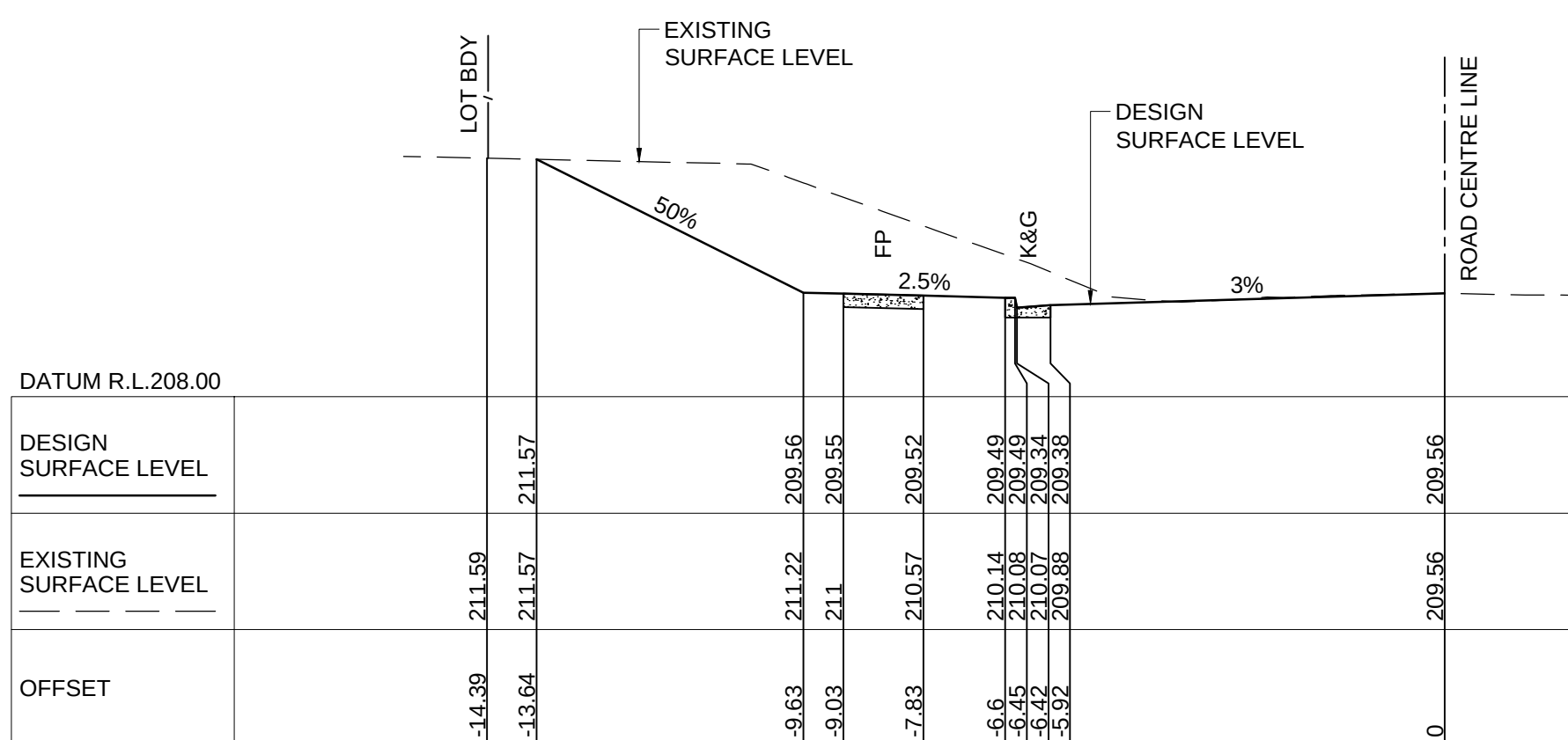
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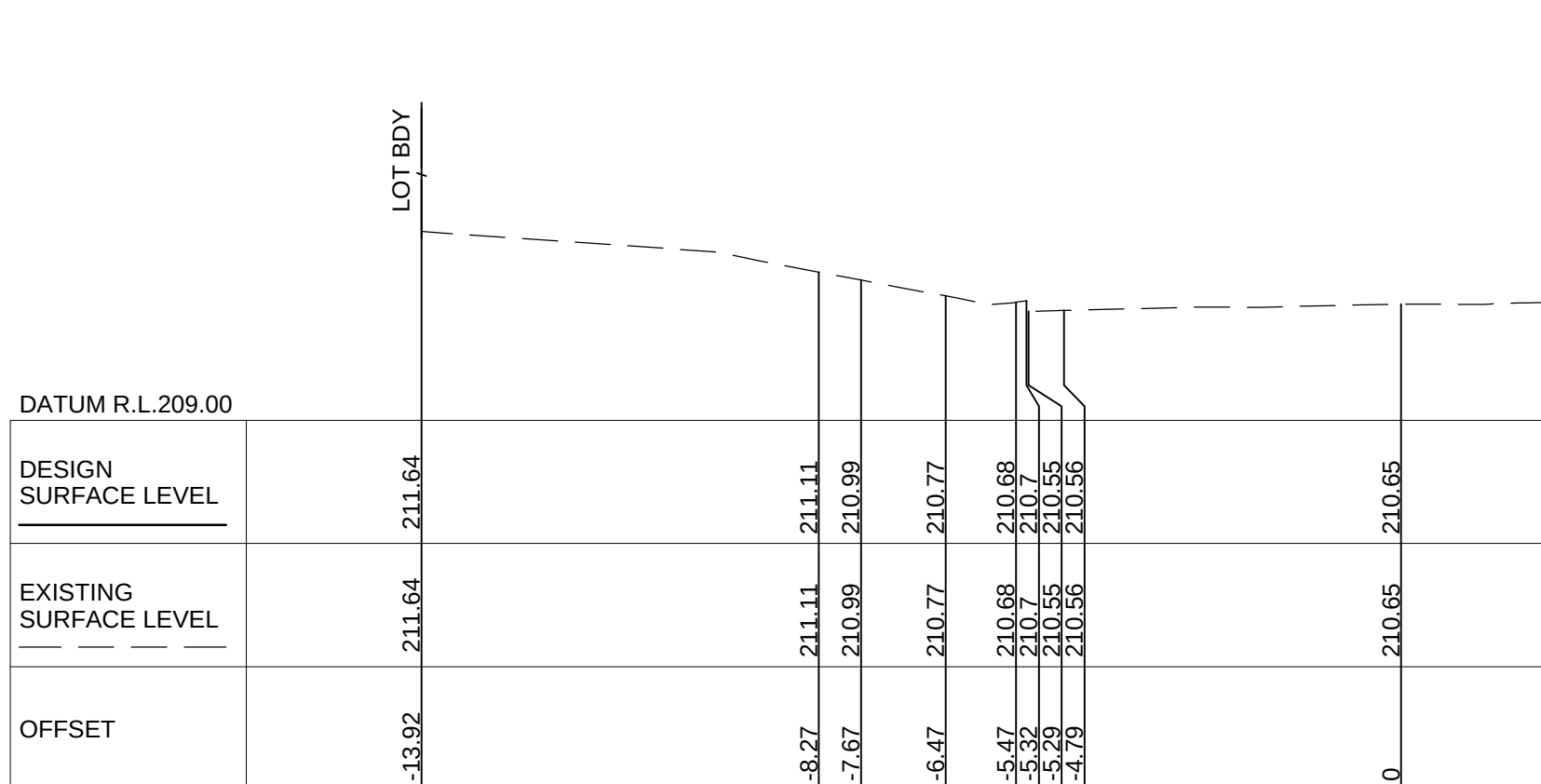
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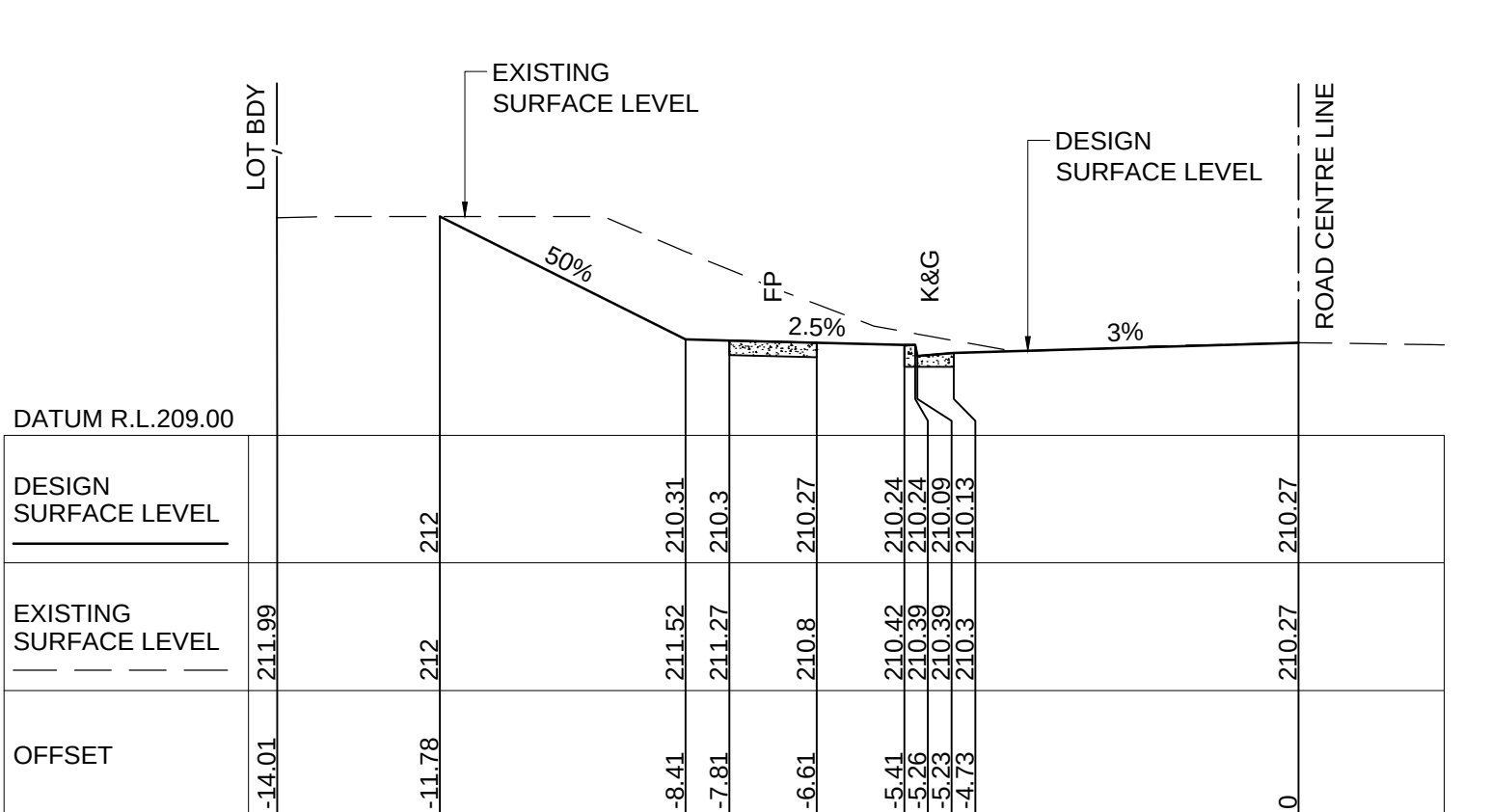
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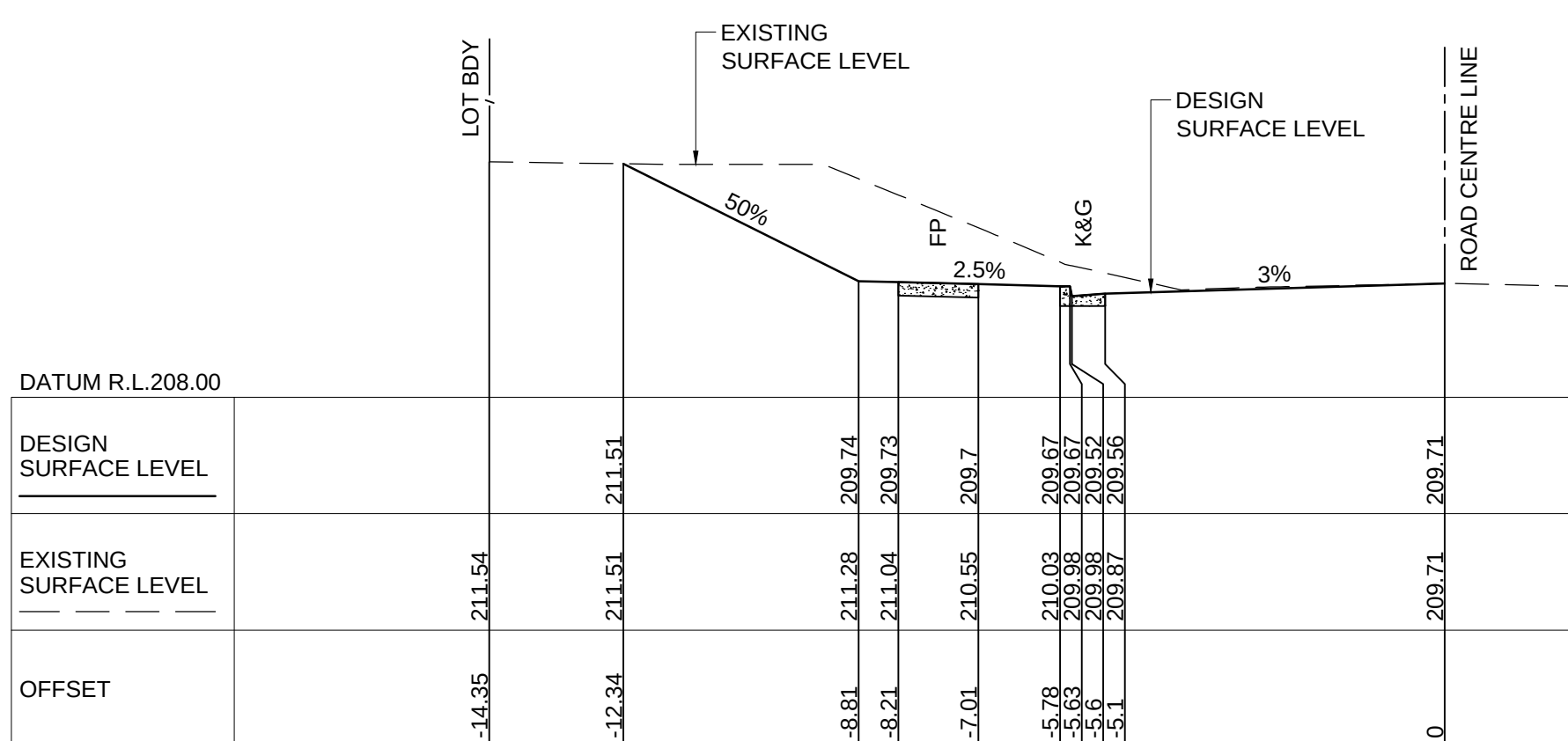
CH. 45.00



CH. 0.00



CH. 20.00



CH. 40.00

DEVELOPMENT APPLICATION

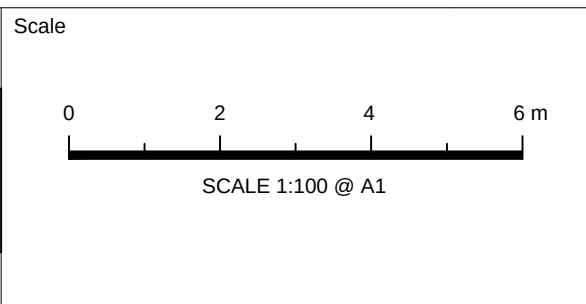
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.	
Issue	Description	Date	Design	Manager	
1	0	1cm at full size	10cm	20cm	

Certification By:

Architect

design cubicle

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EMAIL: info@acceeng.com.au

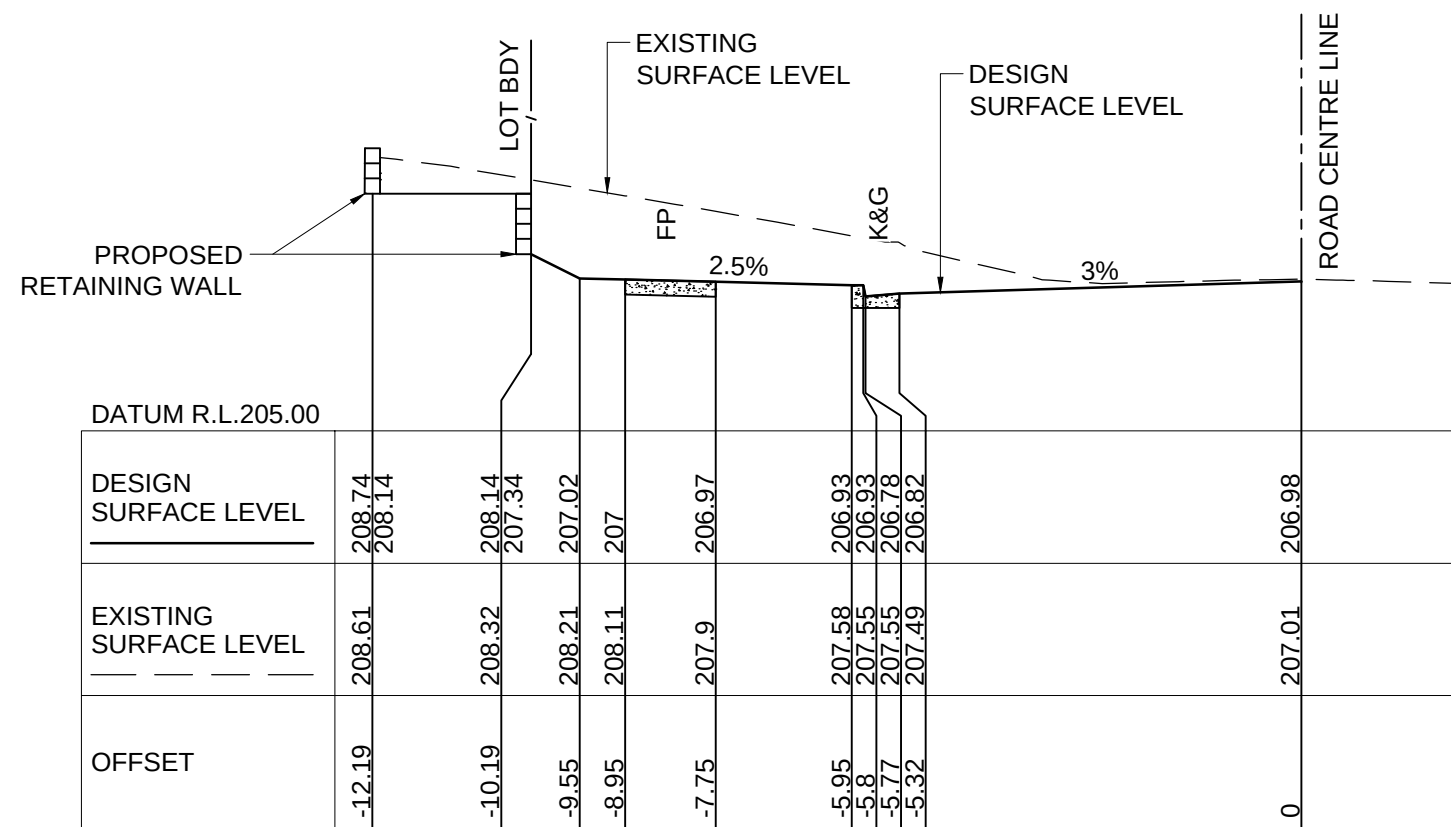
Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

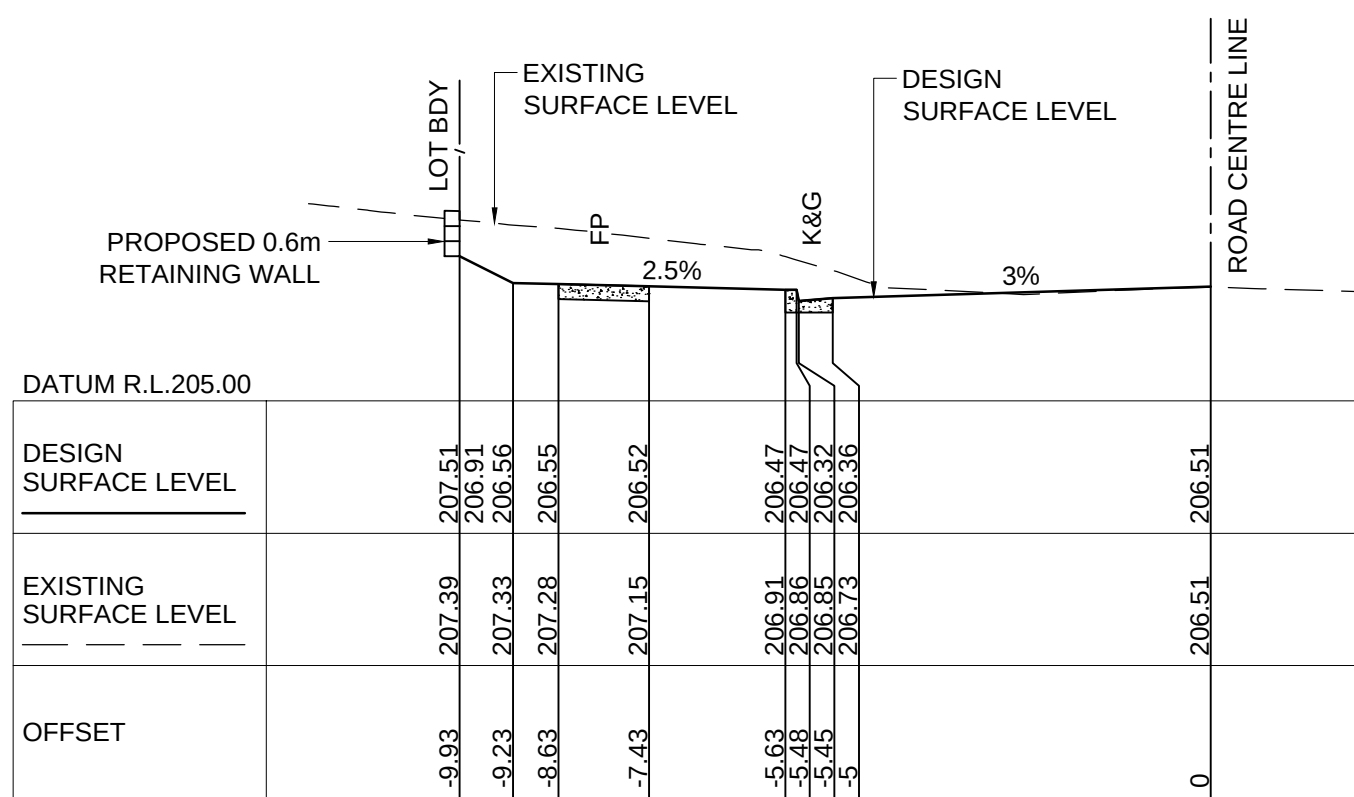
Drawing Title

OLD NORTHERN ROAD
CROSS SECTIONS
SHEET 1 OF 2

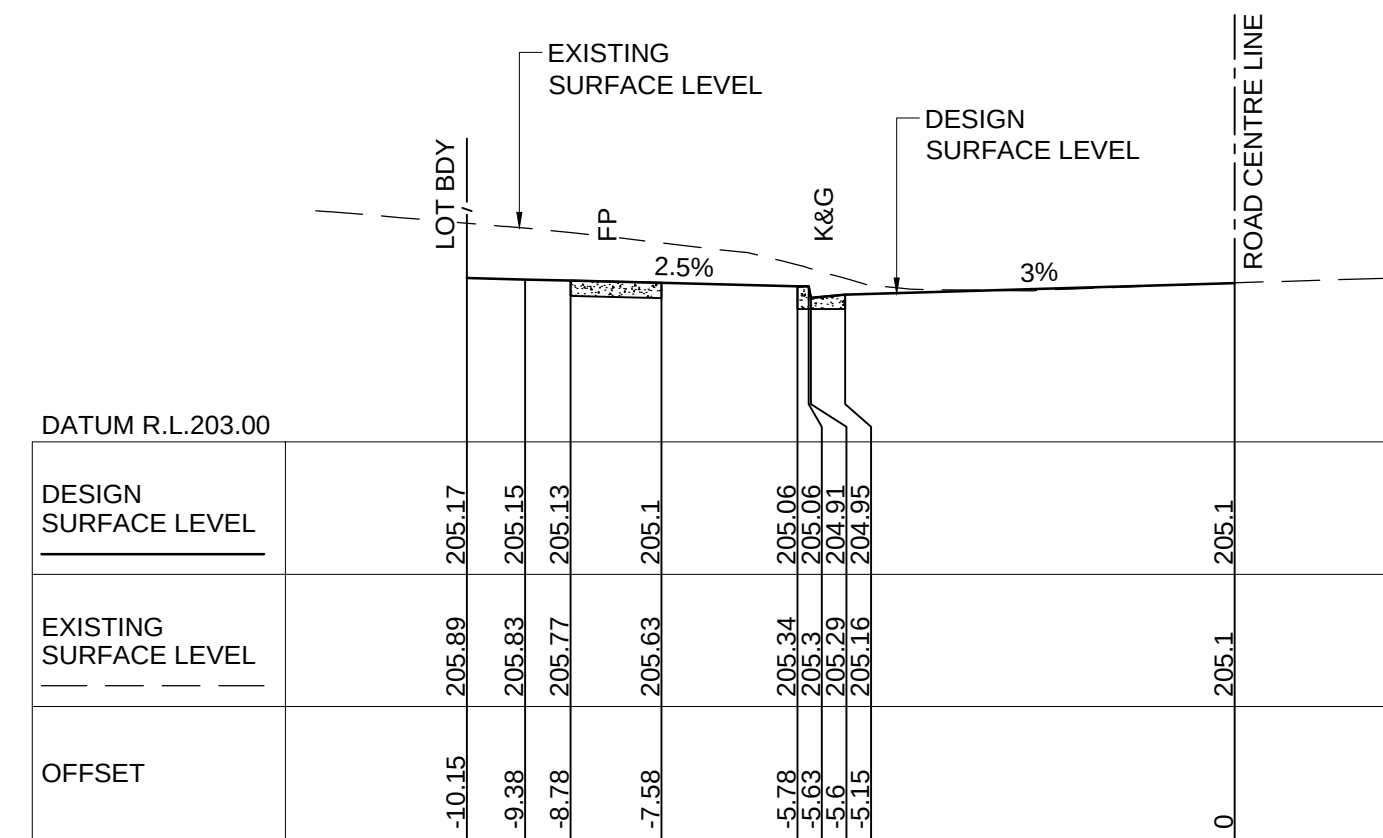
Scale A1 1:100 Project No. 200762 Dwg. No. C401 Issue A



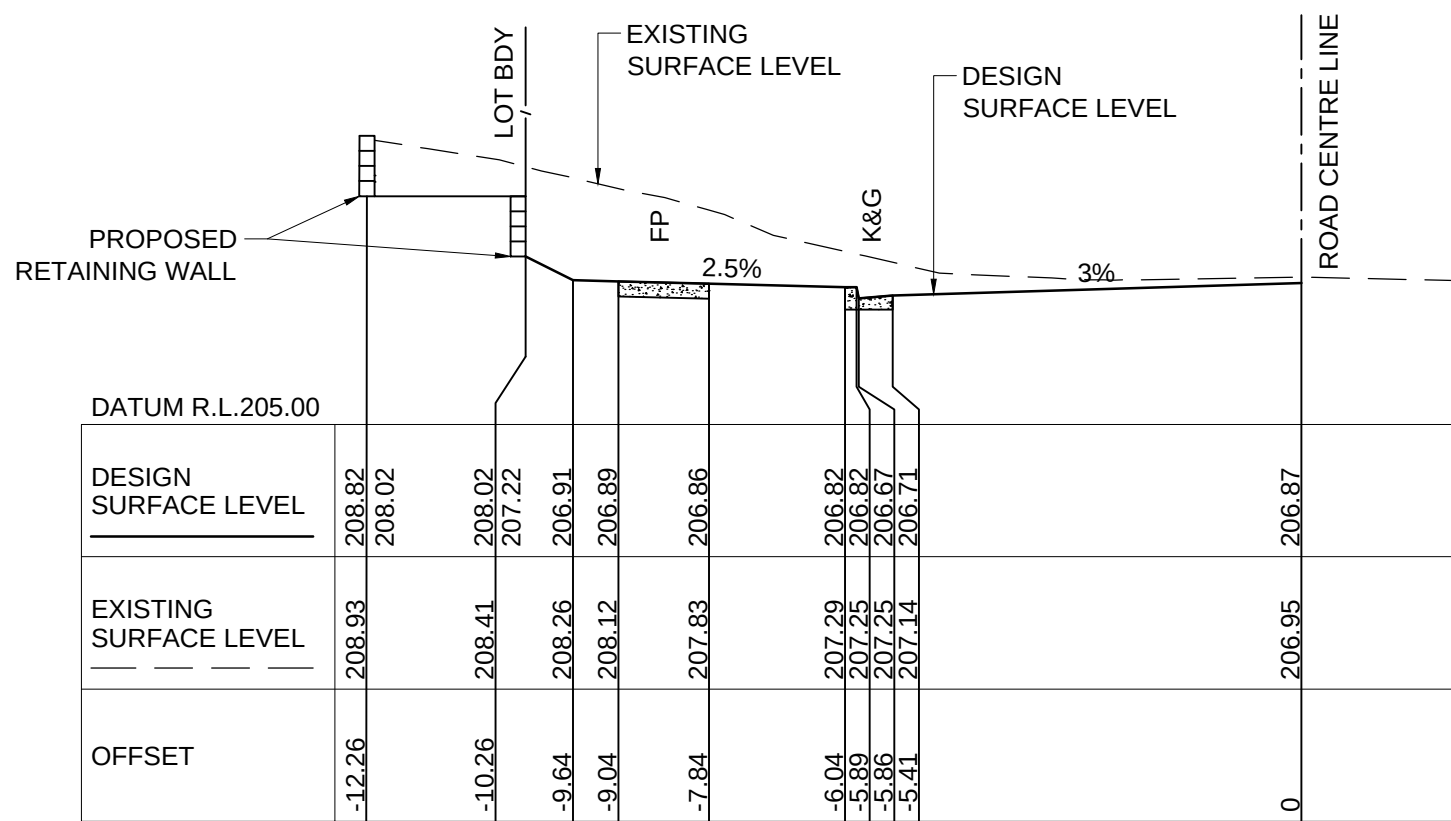
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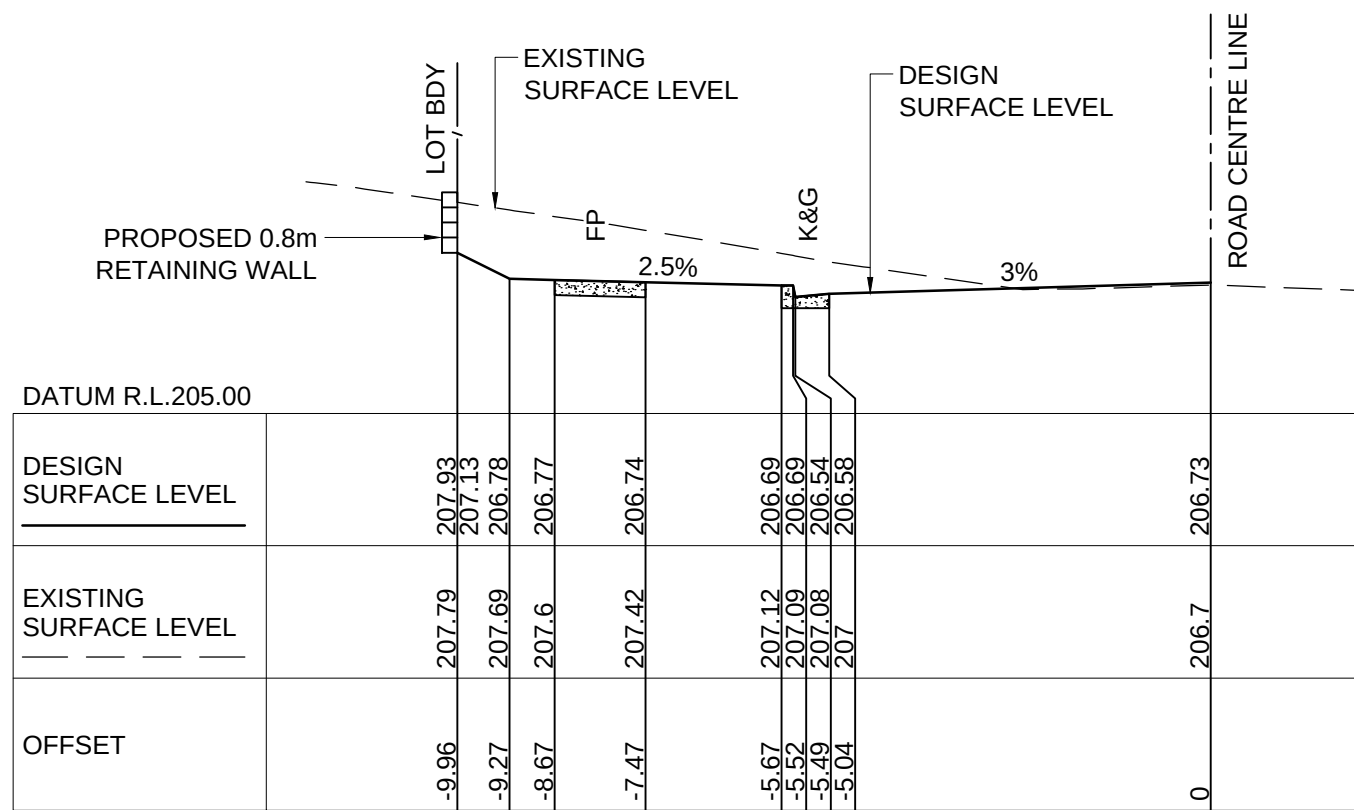
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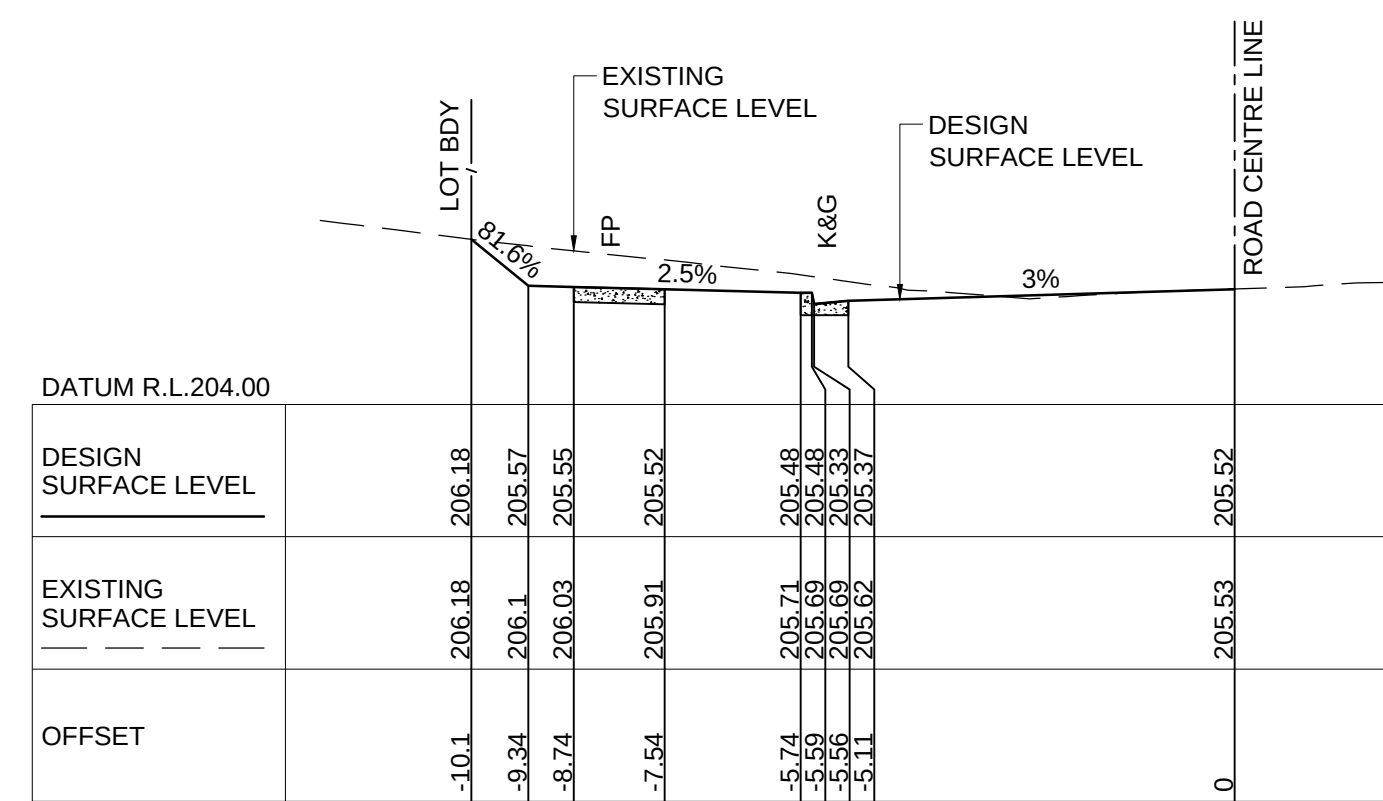
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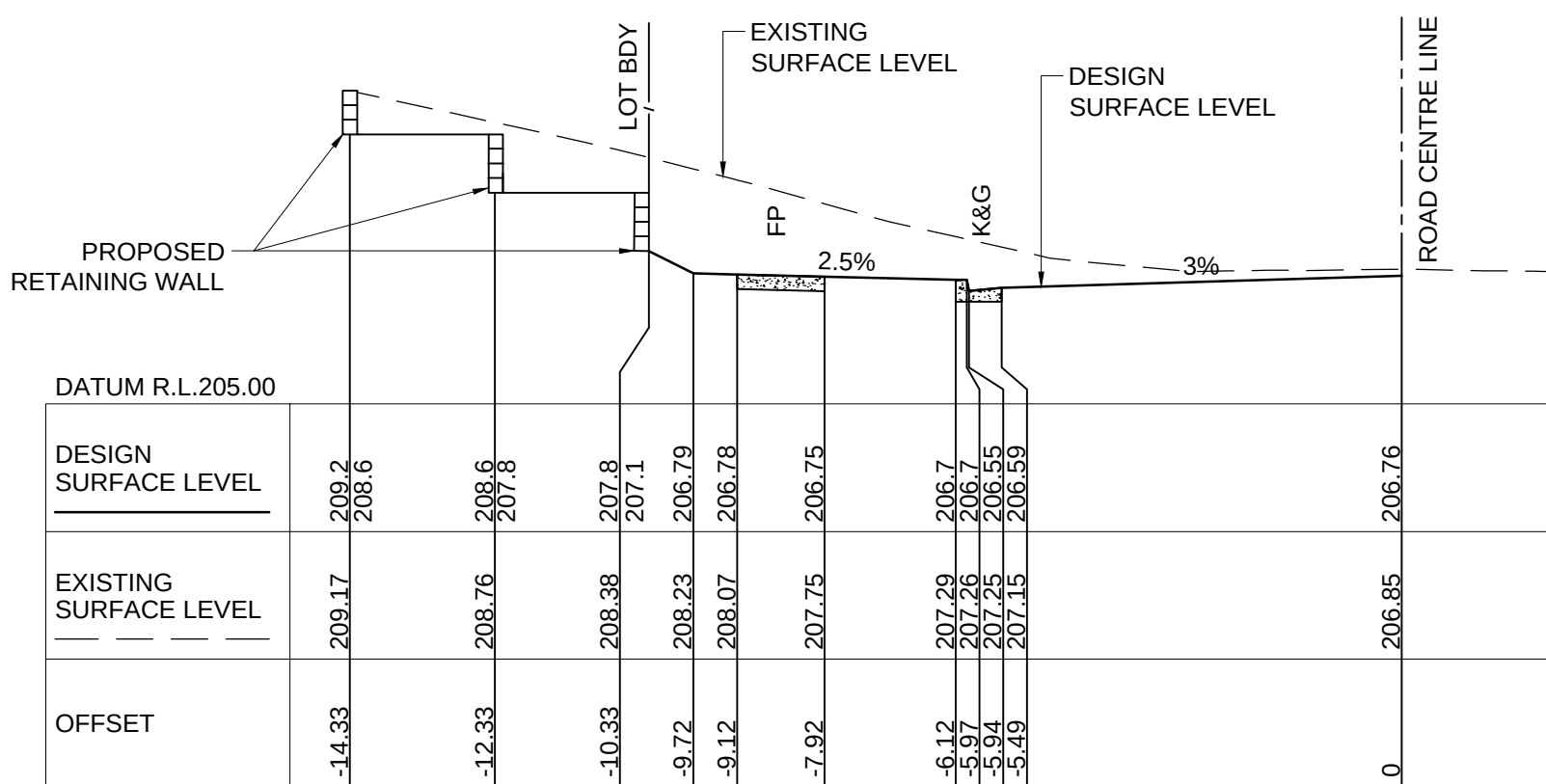
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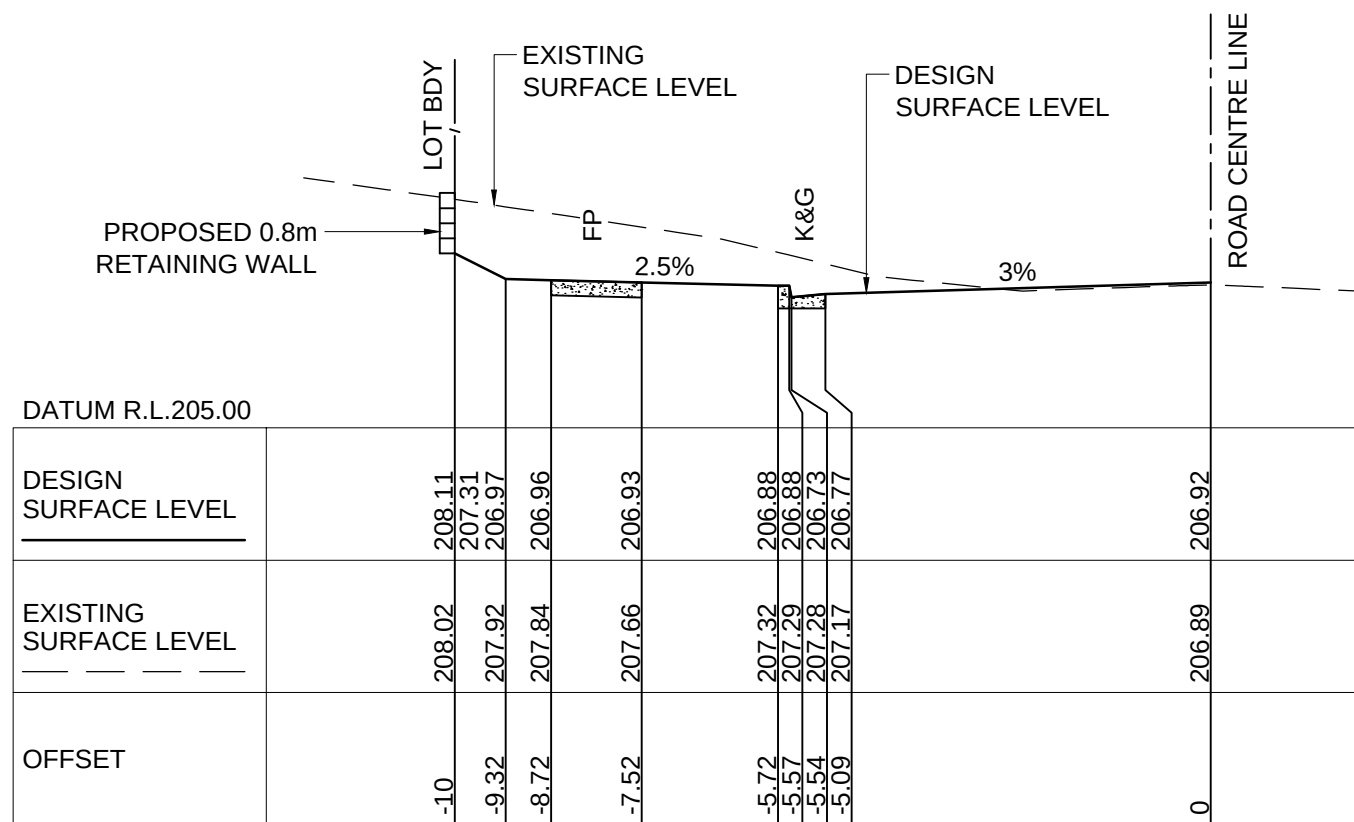
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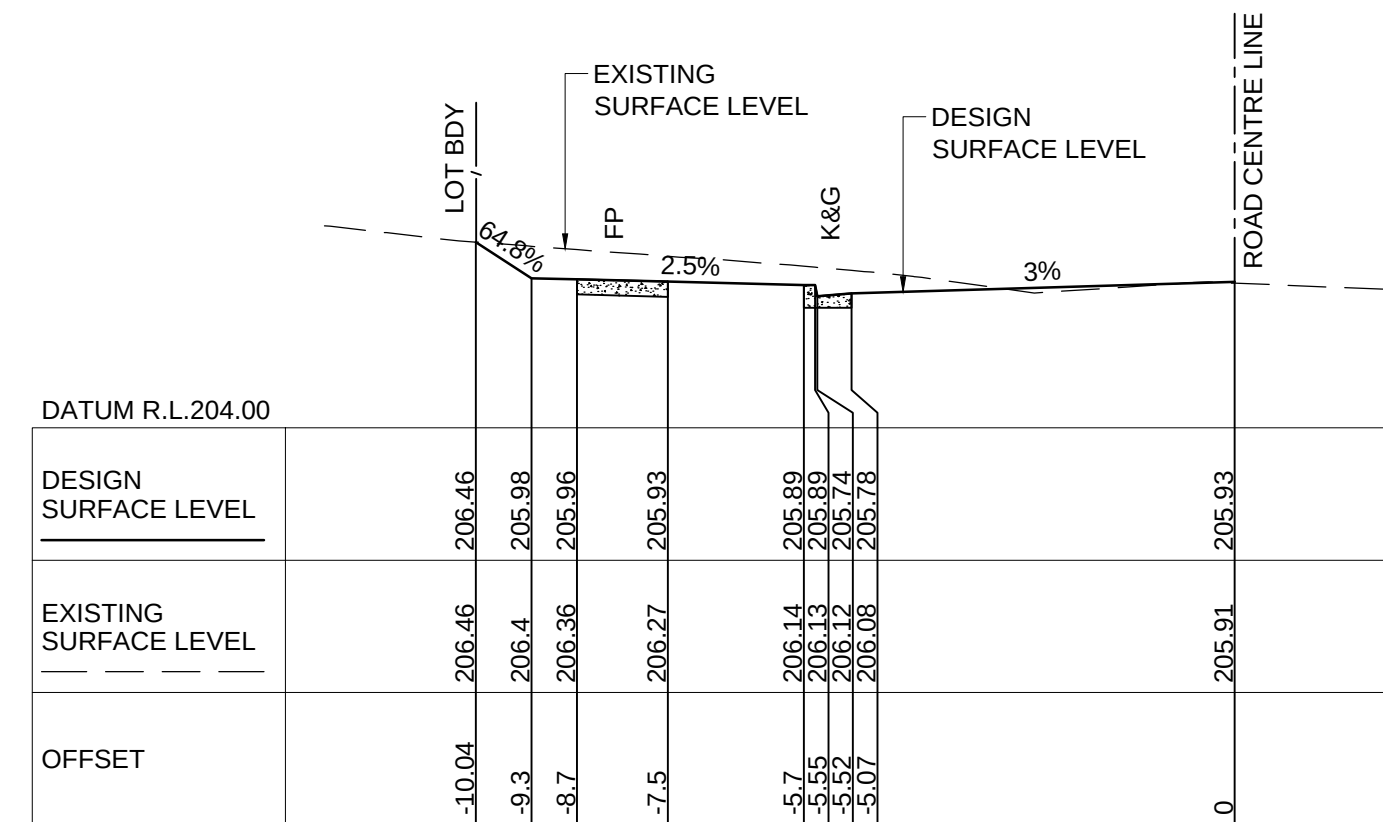
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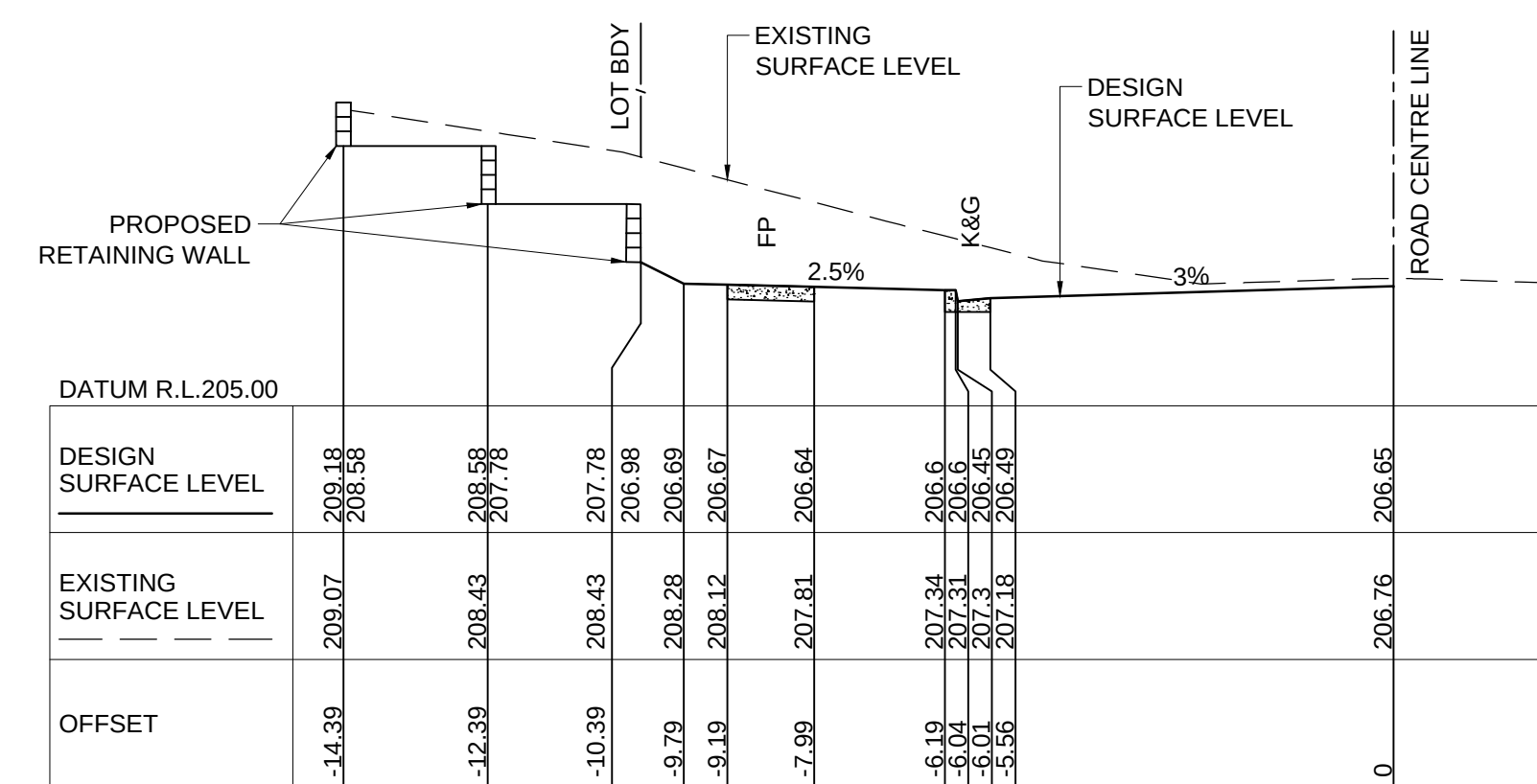
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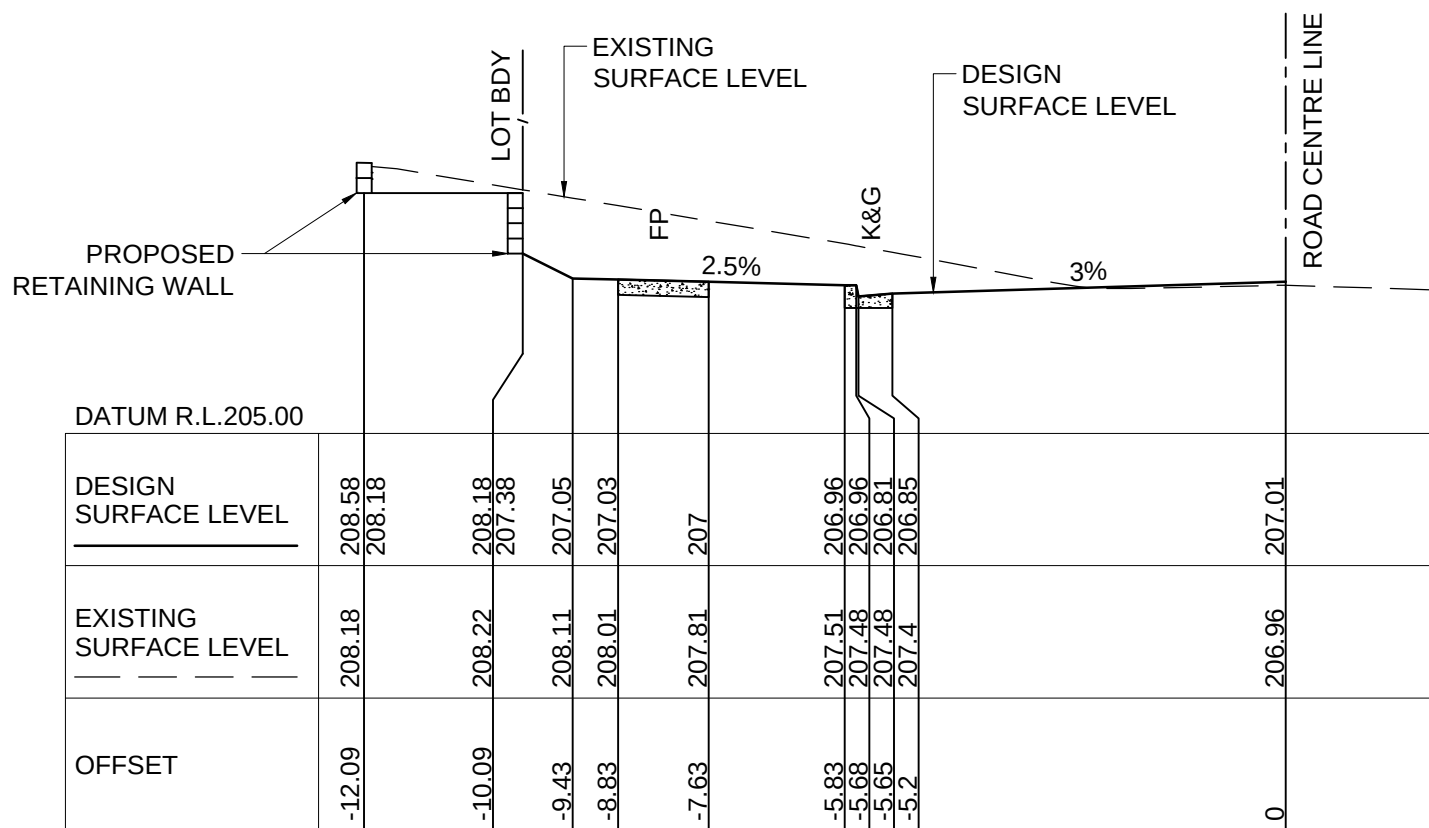
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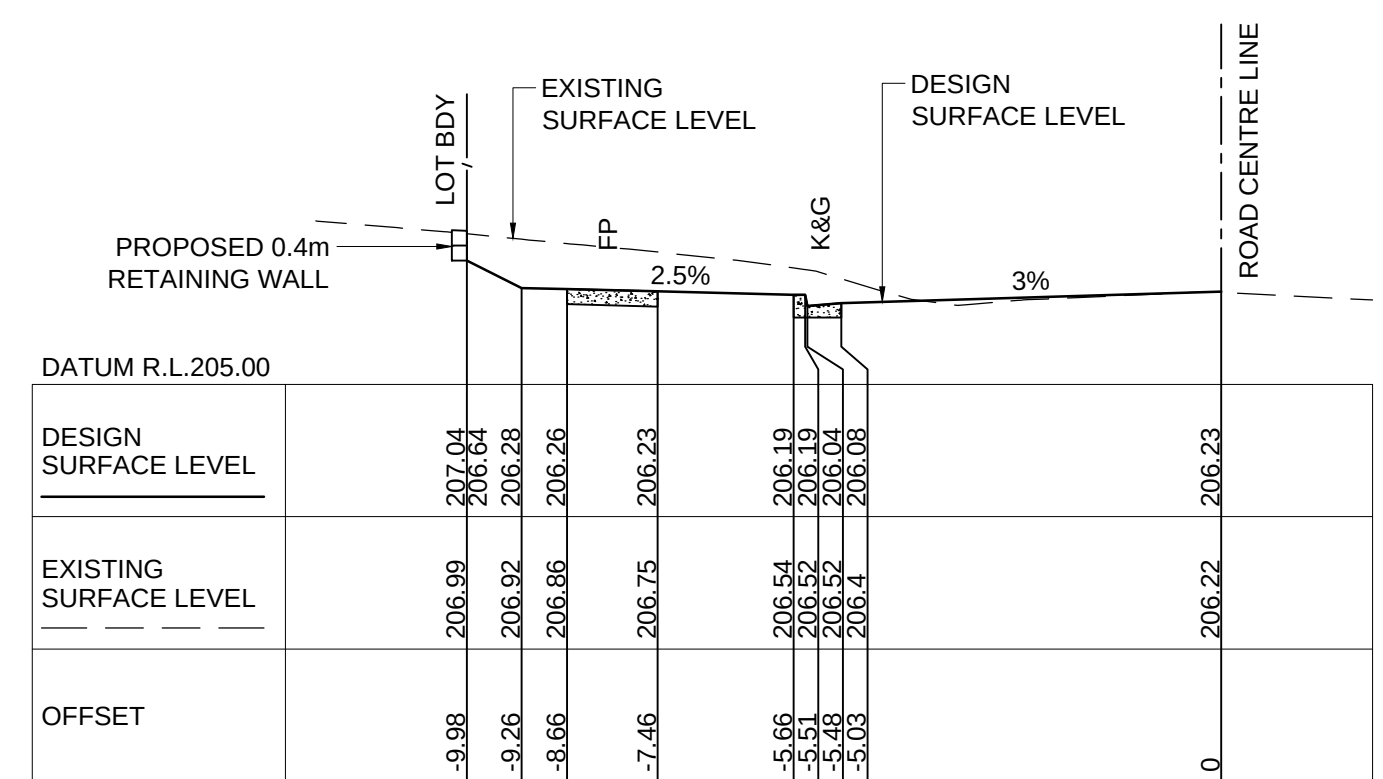
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CH. 20.35



CH. 40.00



CH. 60.00

DEVELOPMENT APPLICATION

A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.	
Issue	Description	Date	Design	Manager	
1	0	1cm at full size	10cm	20cm	

Certification By:

Architect

DESIGN CUBICLE PTY LTD
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9503 2779
TEL: 9503 2462
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EMAIL: info@designcubicle.com.au
WEB: www.designcubicle.com.au
ABN: 47 110310 333

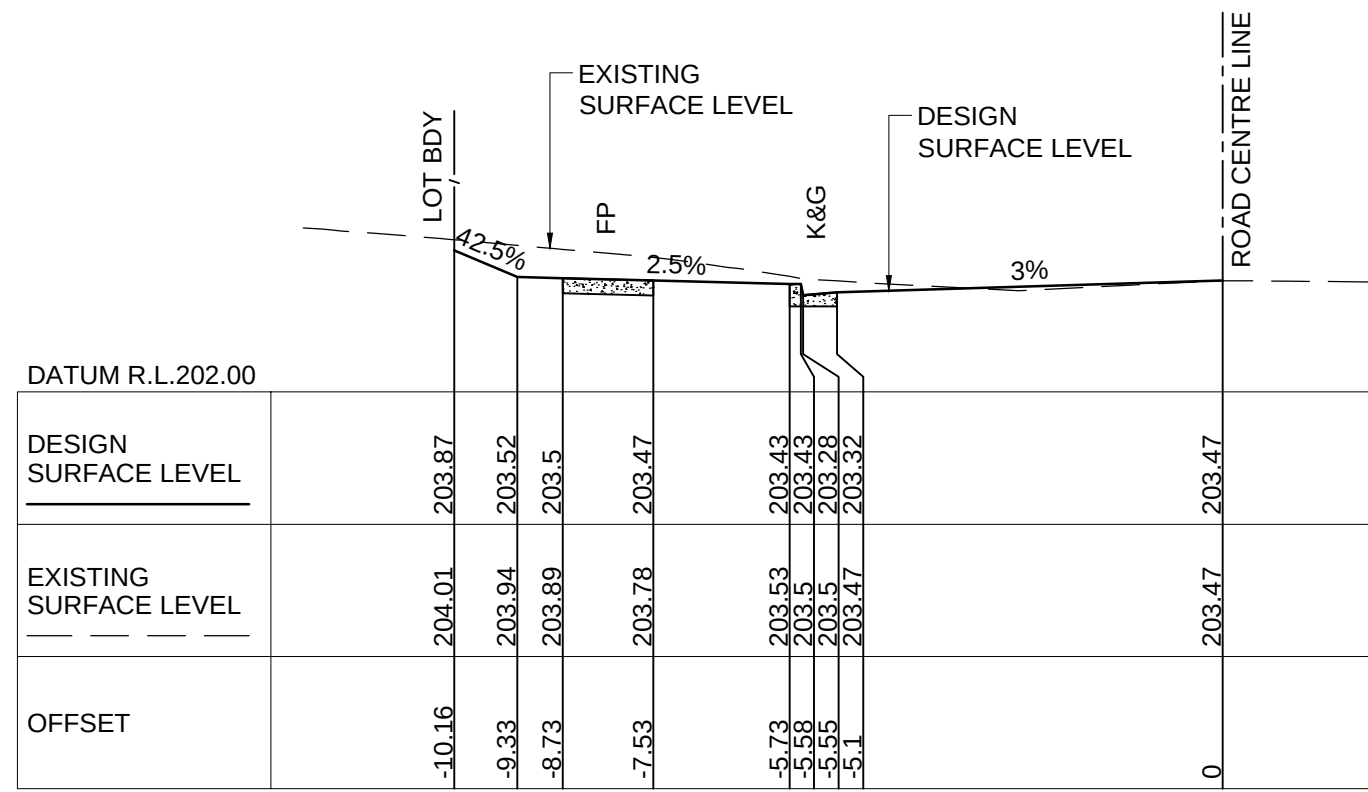
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SCALE 1:100 @ A1

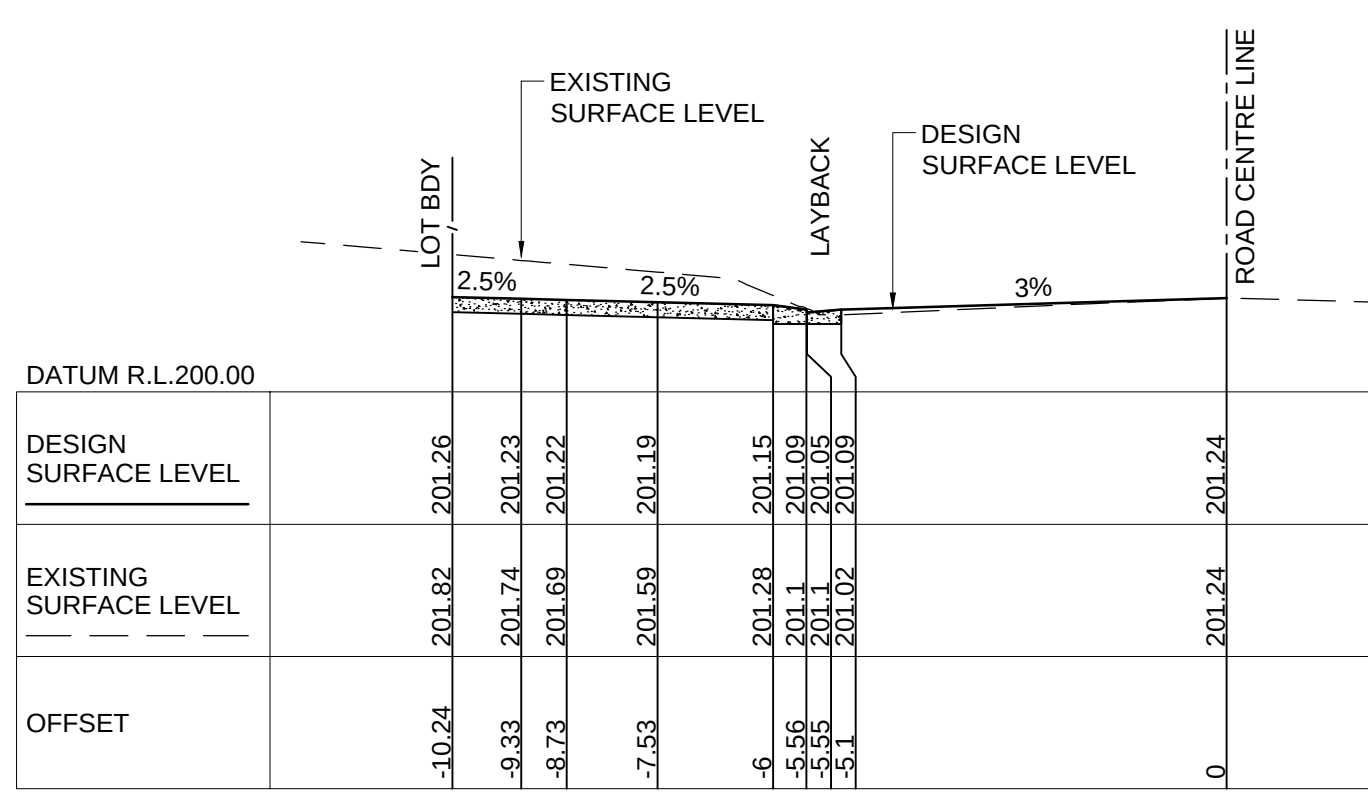
AUSTRALIAN CONSULTING ENGINEERS.
PTY LTD - A.C.N. 084 059 941
LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150
PH: (02) 9763 1500 FX: (02) 9763 1515
EMAIL: info@acceeng.com.au

Project
669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

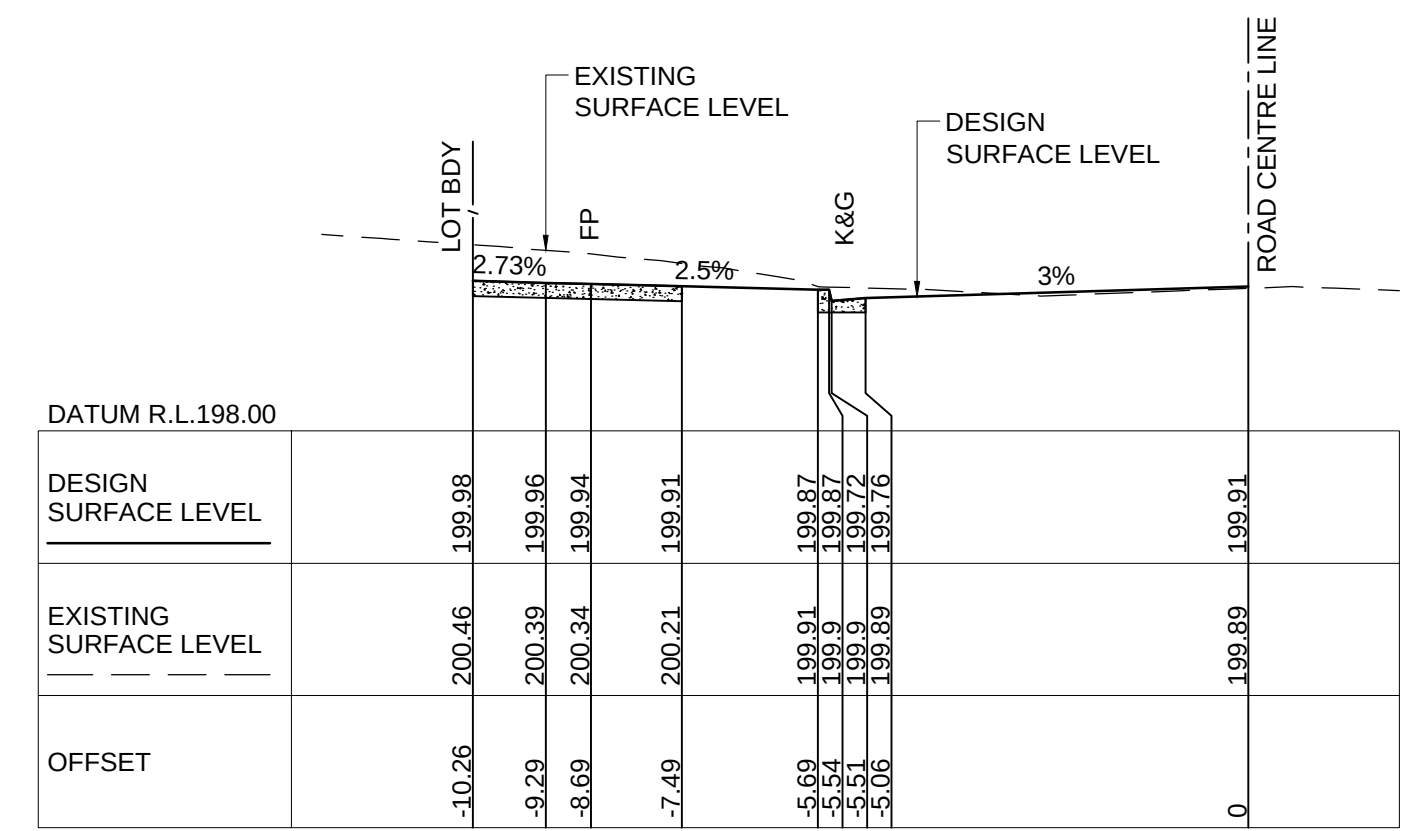
Drawing Title
FRANLEE ROAD
CROSS SECTIONS
SHEET 1 OF 3
Scale 1:100 A1 Project No. 200762 Dwg. No. C403 Issue A



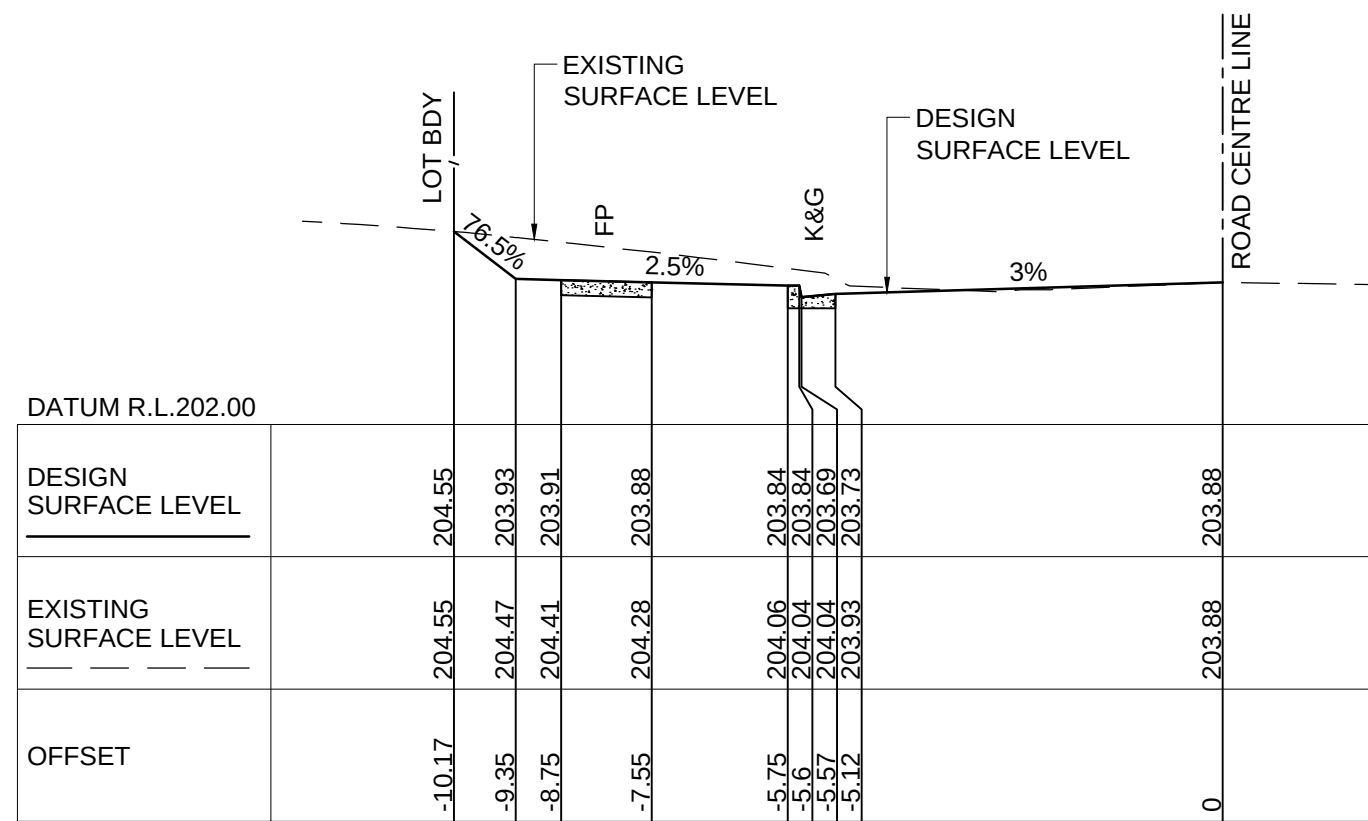
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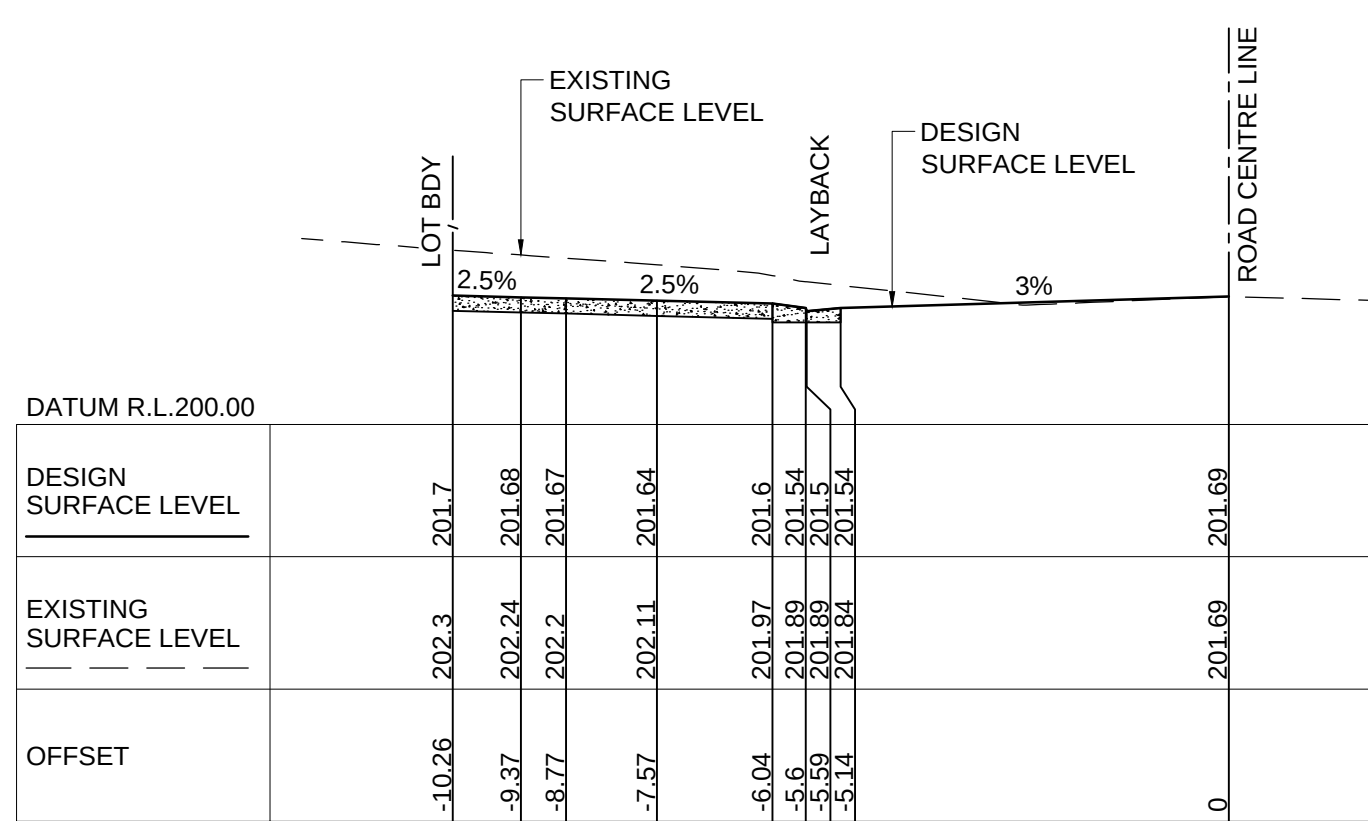
CH. 120.00 - DRIVEWAY



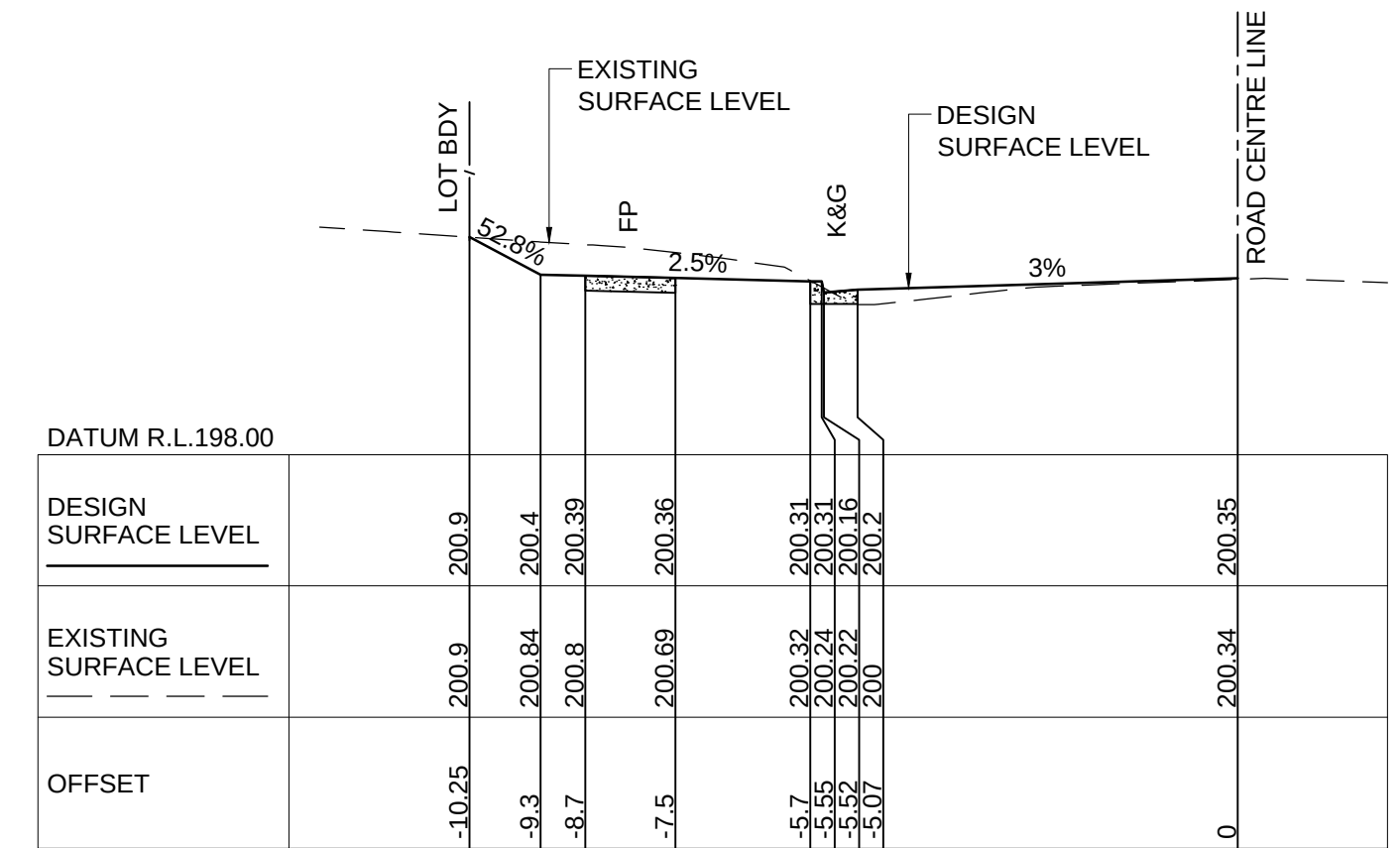
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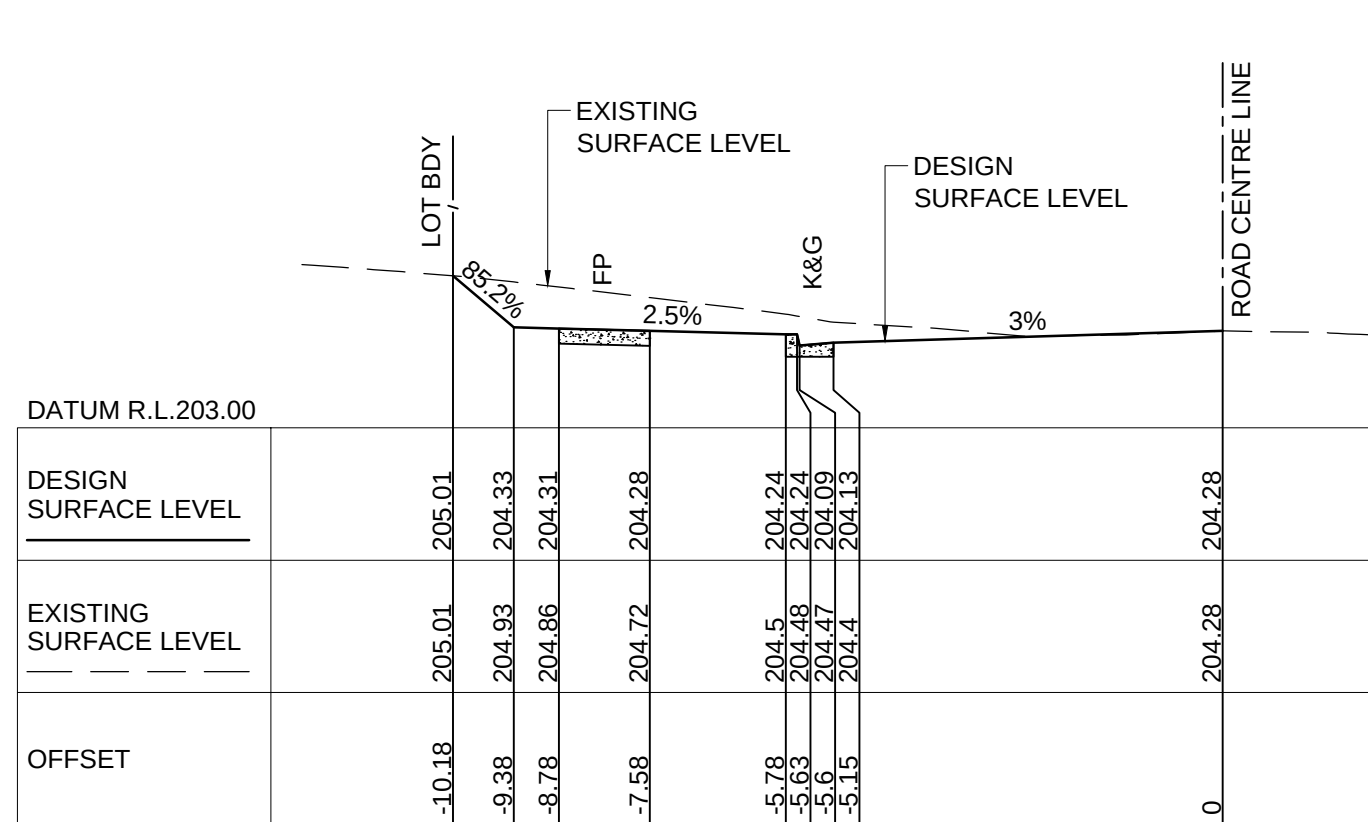
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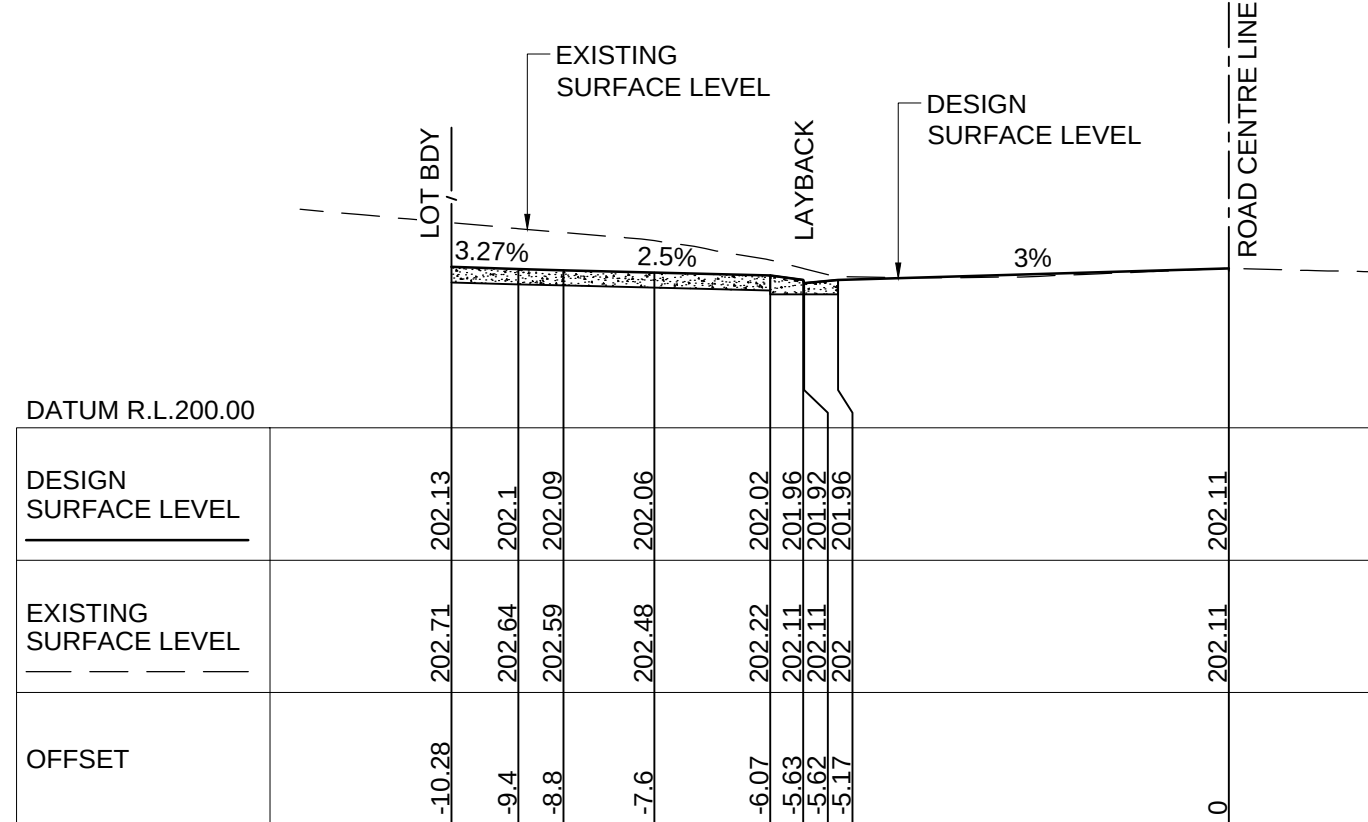
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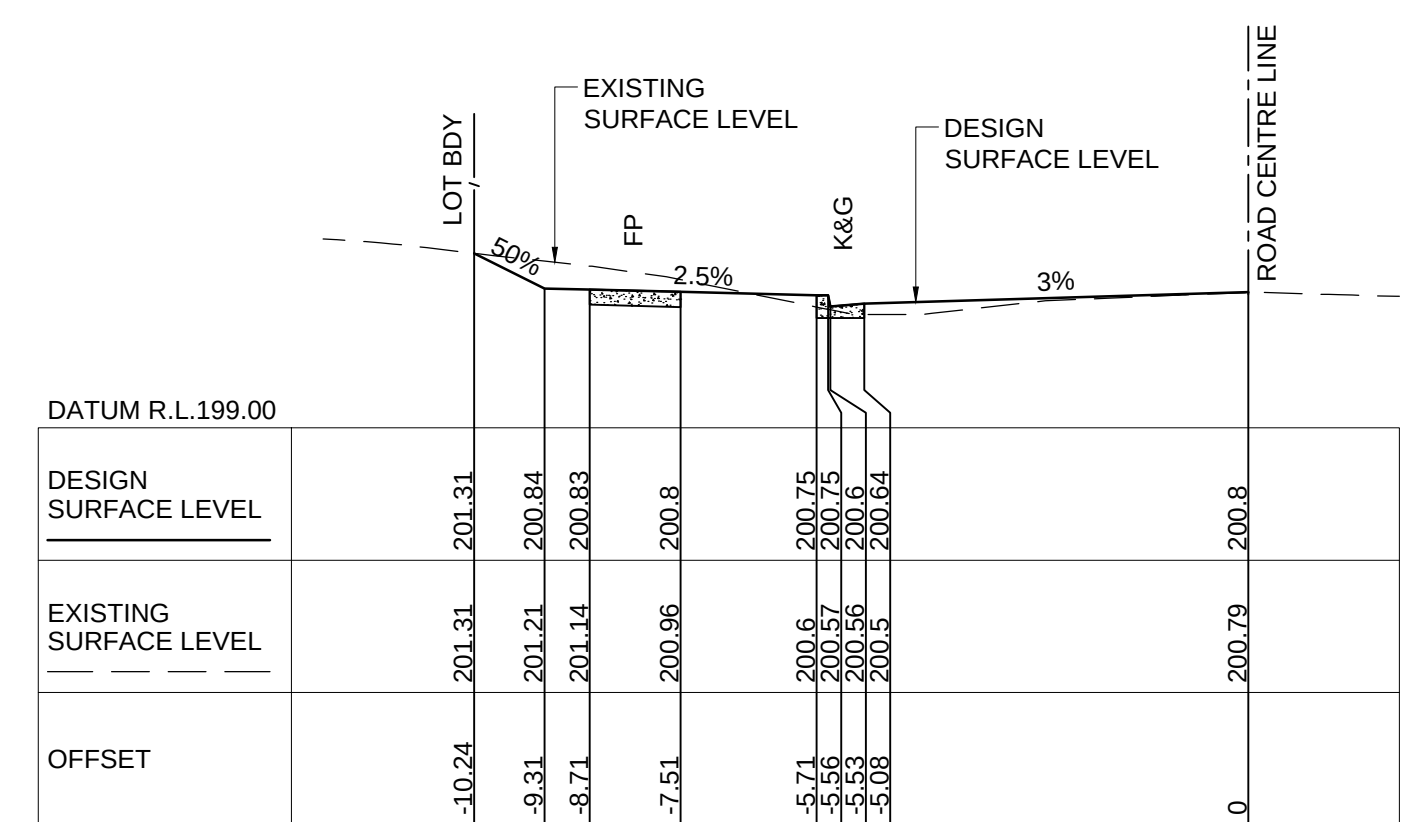
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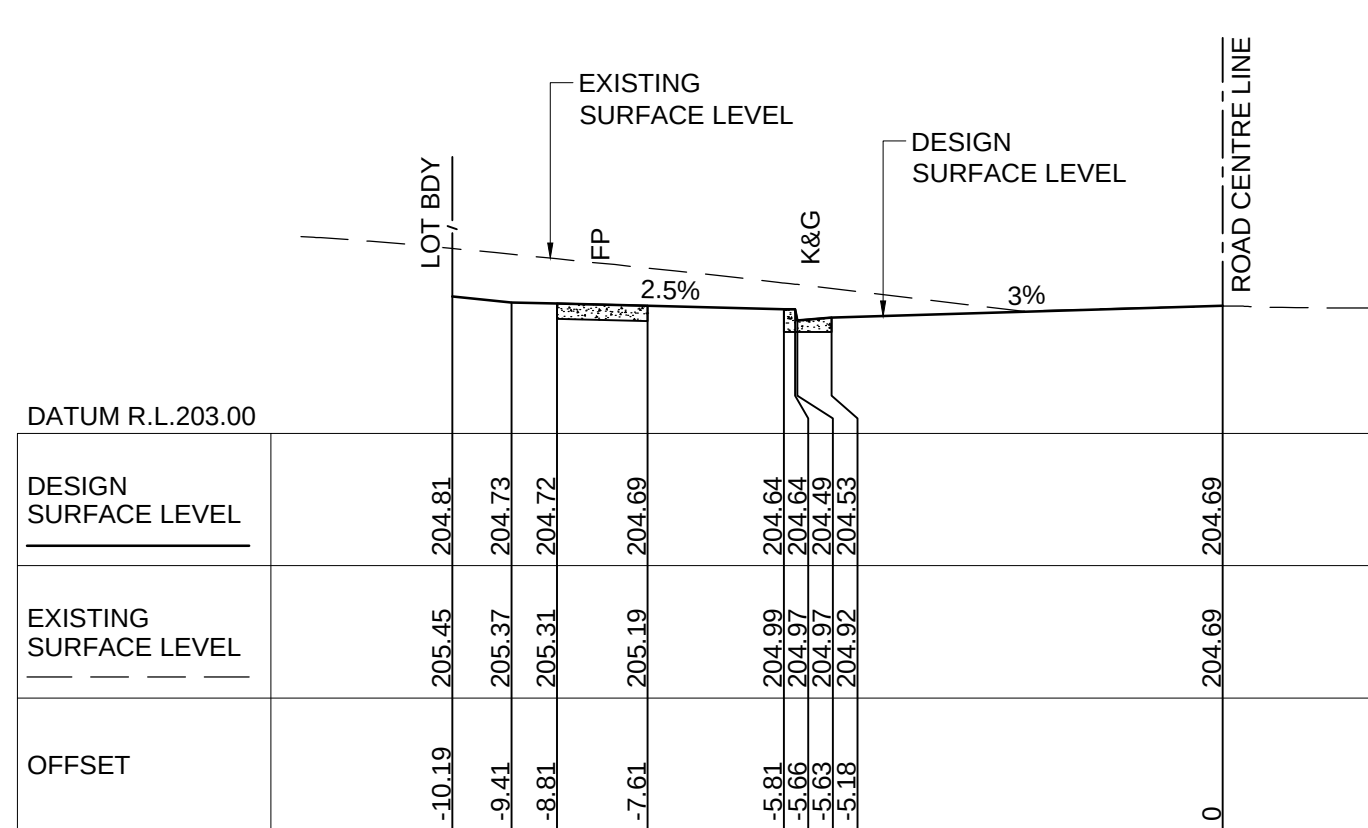
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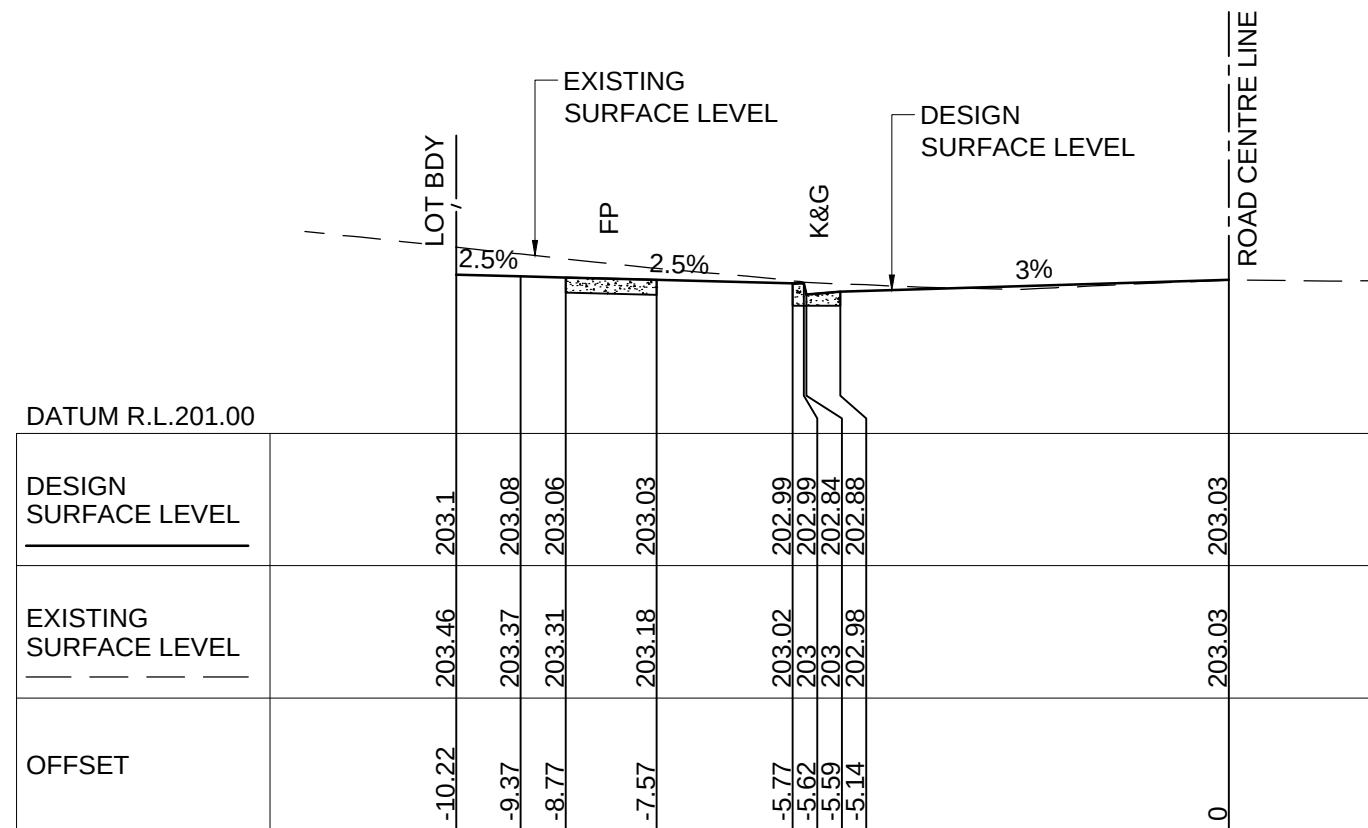
CH. 110.34 - DRIVEWAY



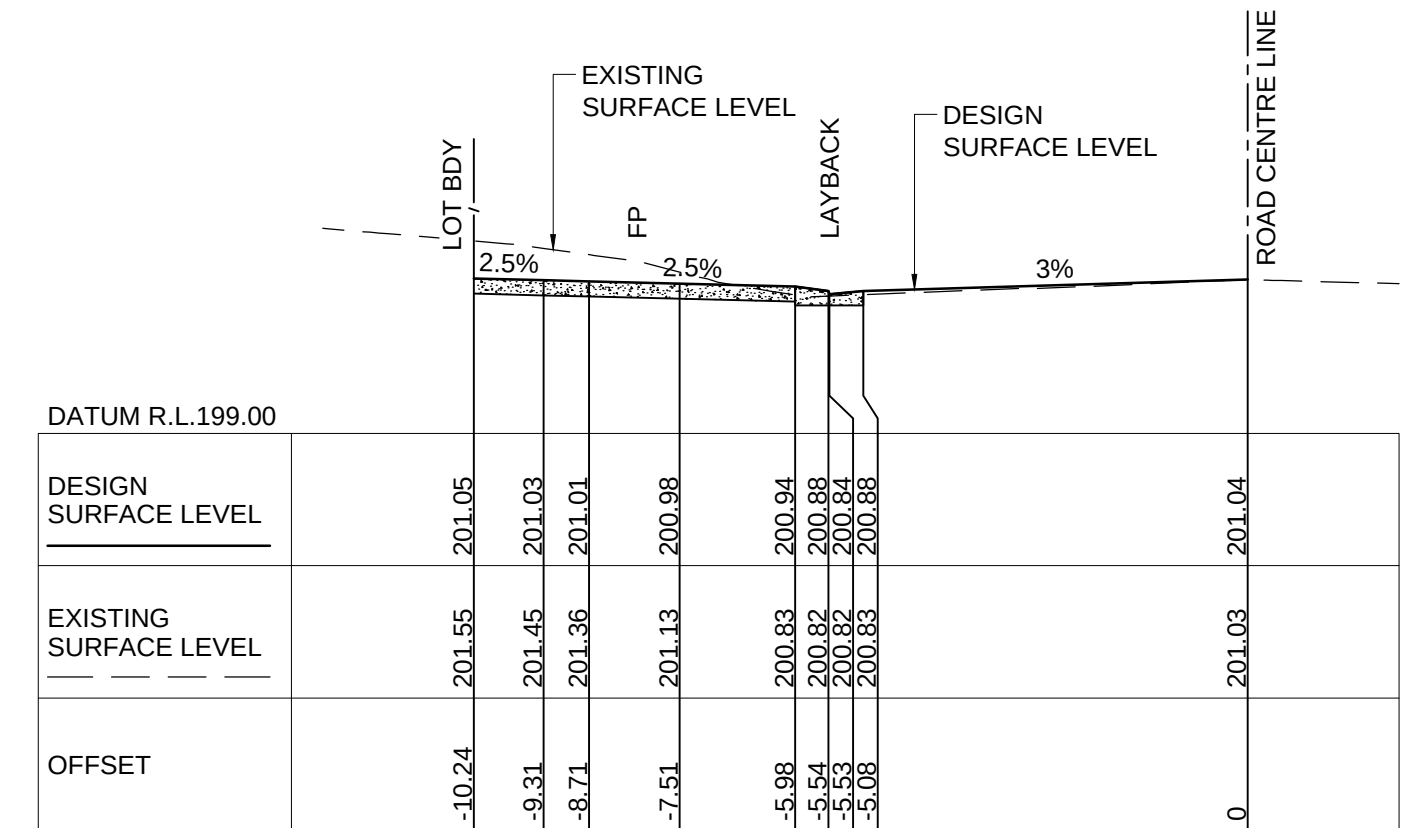
CH. 125.00



CH. 80.00 - ENTRANCE



CH. 100.00 - ENTRANCE



CH. 122.31 - DRIVEWAY

DEVELOPMENT APPLICATION

A		02/11/2020	P.T.	J.B.
Issue	Description	Date	Design	Manager
1	ISSUE FOR DEVELOPMENT APPLICATION			

Certification By:

Architect

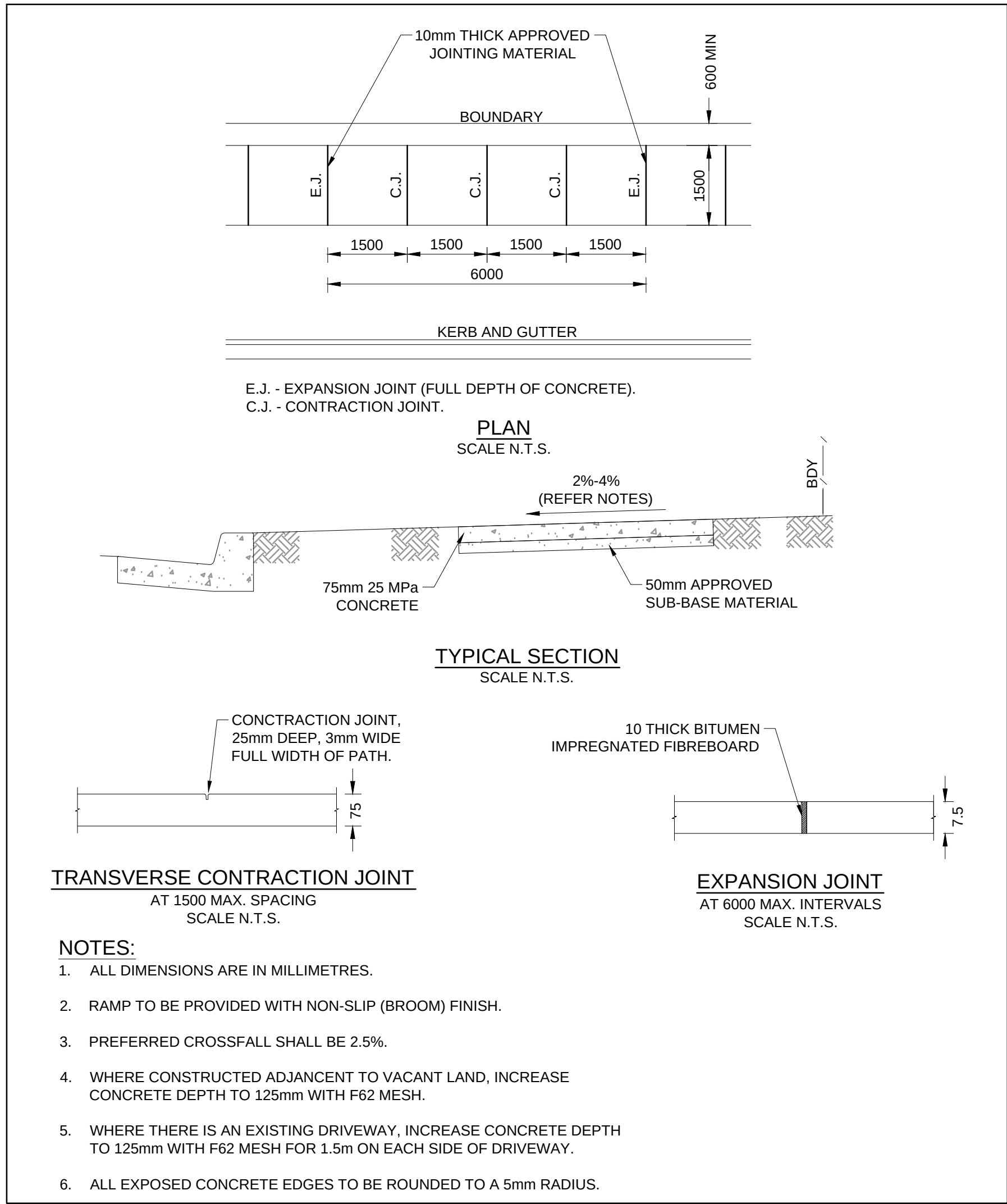
DESIGN CUBICLE PTY LTD
10/11/2020
44 CORRIELL STREET
NORTH PARRAMATTA
NSW 2150
TEL: 02 9763 1500
FAX: 02 9763 1515
EMAIL: info@acceng.com.au
WEB: www.designcubicle.com.au

Scale
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SCALE 1:100 @ A1

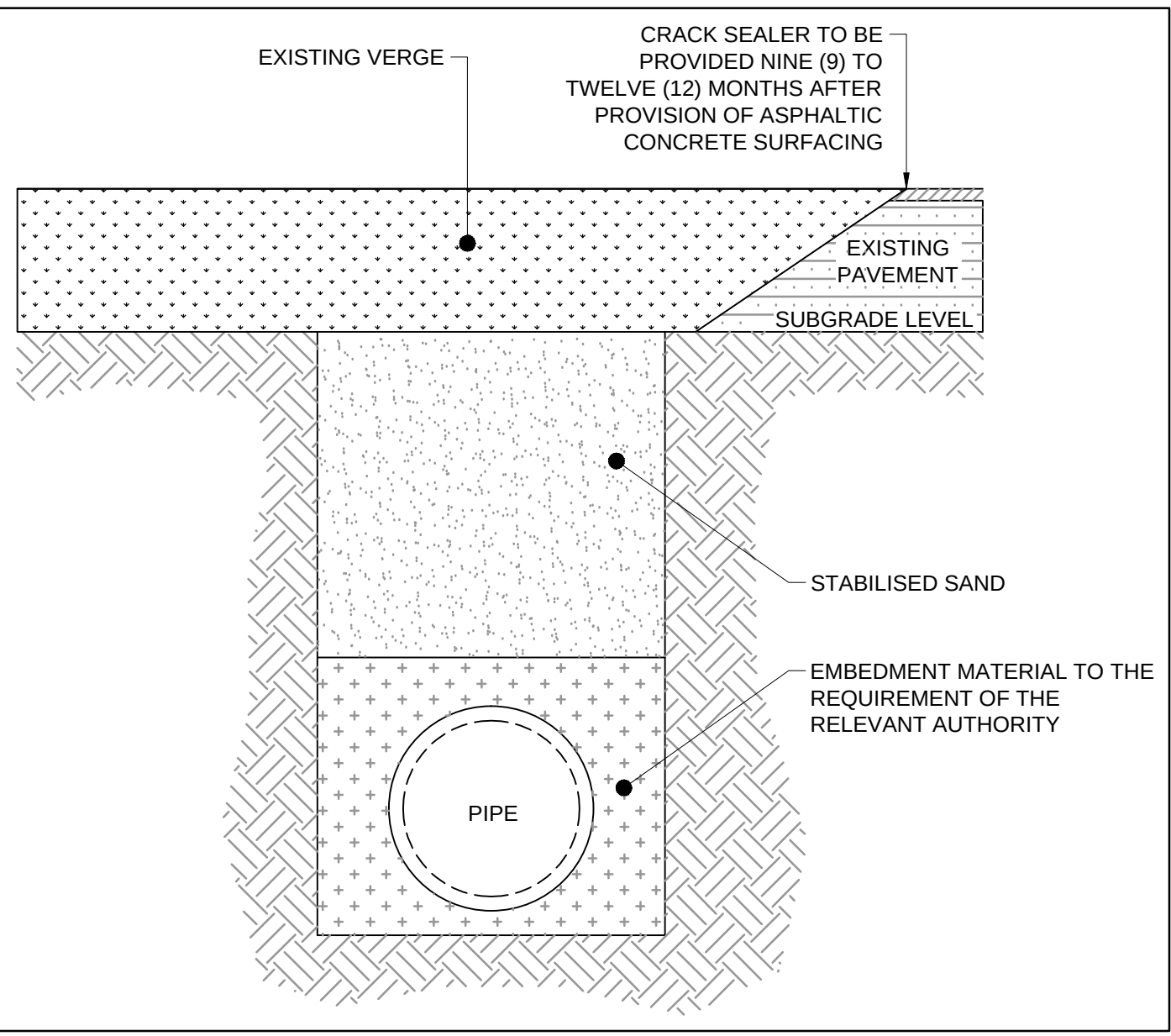
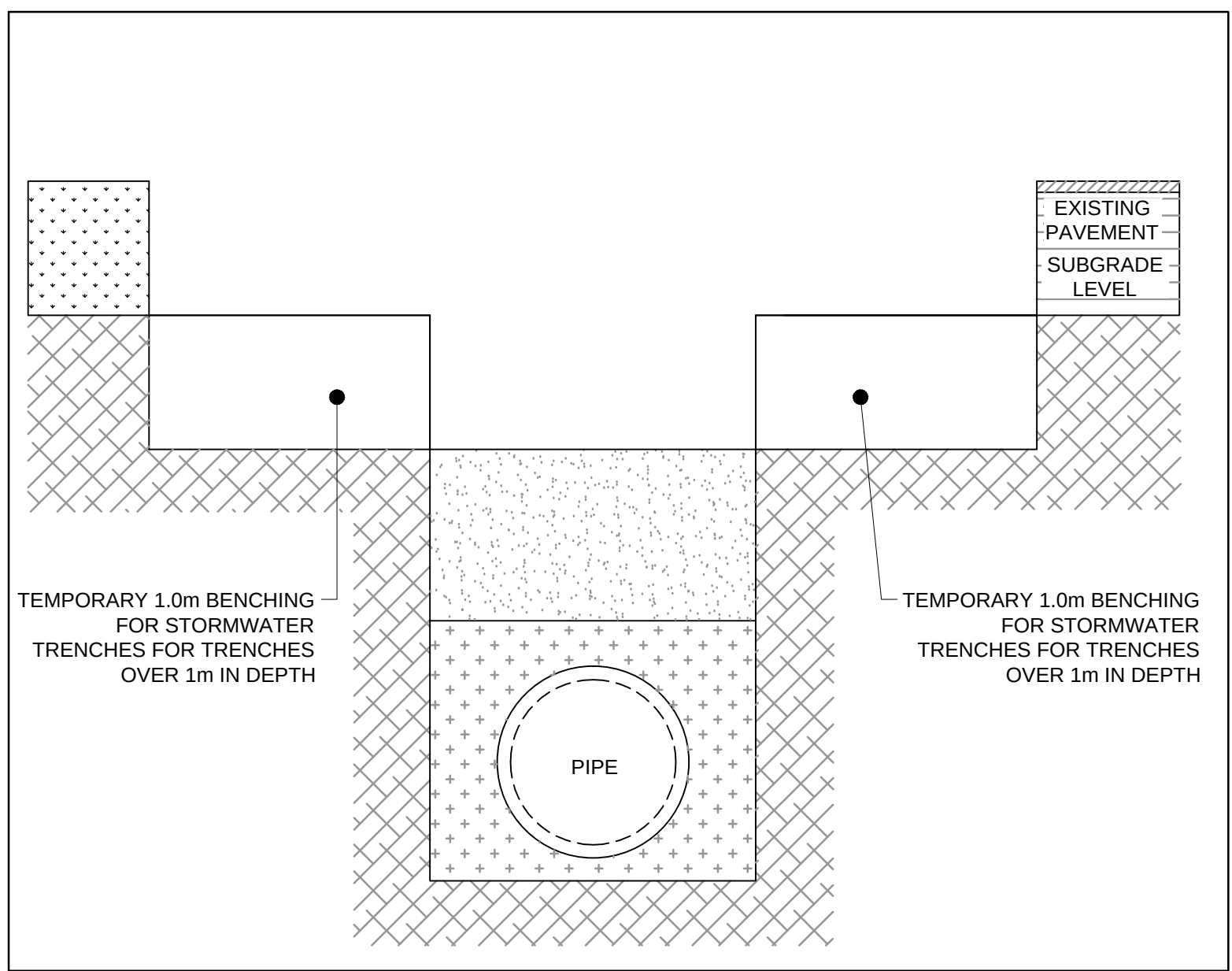
AUSTRALIAN CONSULTING ENGINEERS
PTY LTD - A.C.N. 084 059 941
LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150
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EMAIL: info@acceng.com.au

Project
669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title
FRANLEE ROAD
CROSS SECTIONS
SHEET 2 OF 3
Scale 1:100 A1 Project No. 200762 Dwg. No. C404 Issue A



FOOTPATH PAVING AND JOINTING DETAILS
SCALE N.T.S.

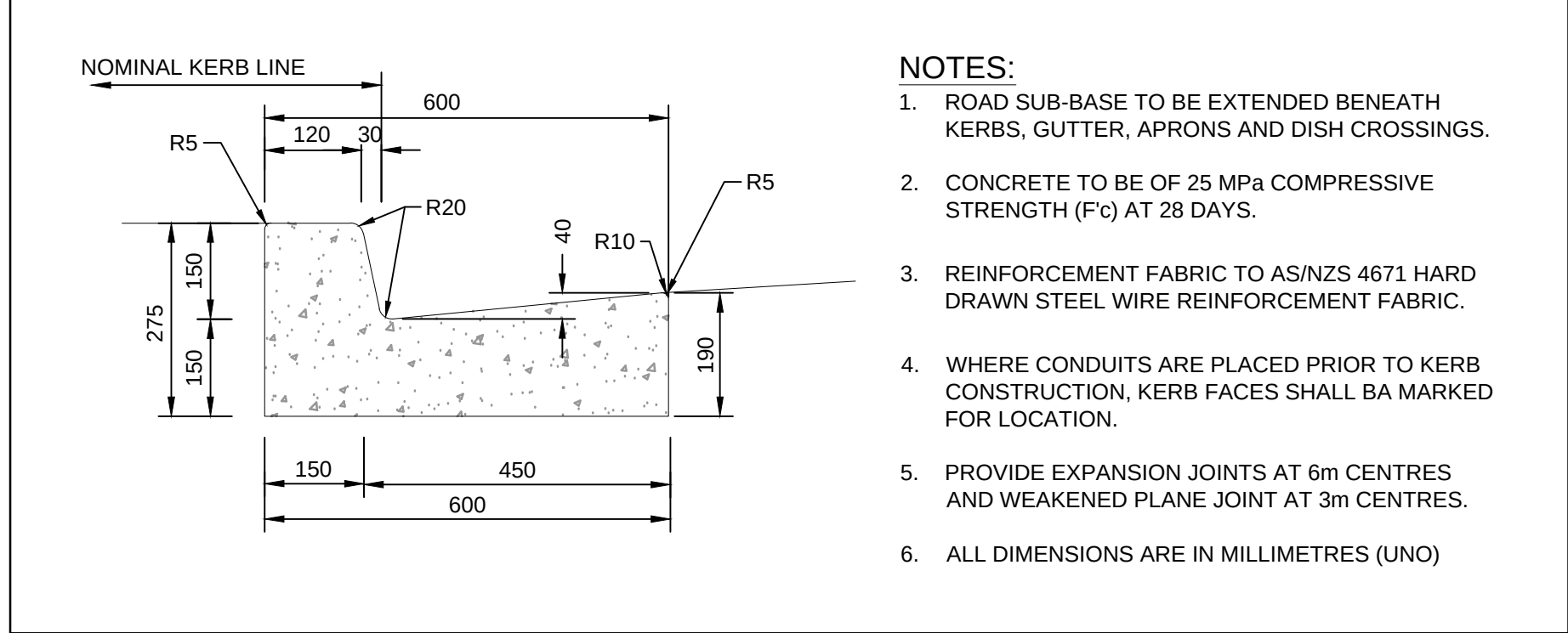
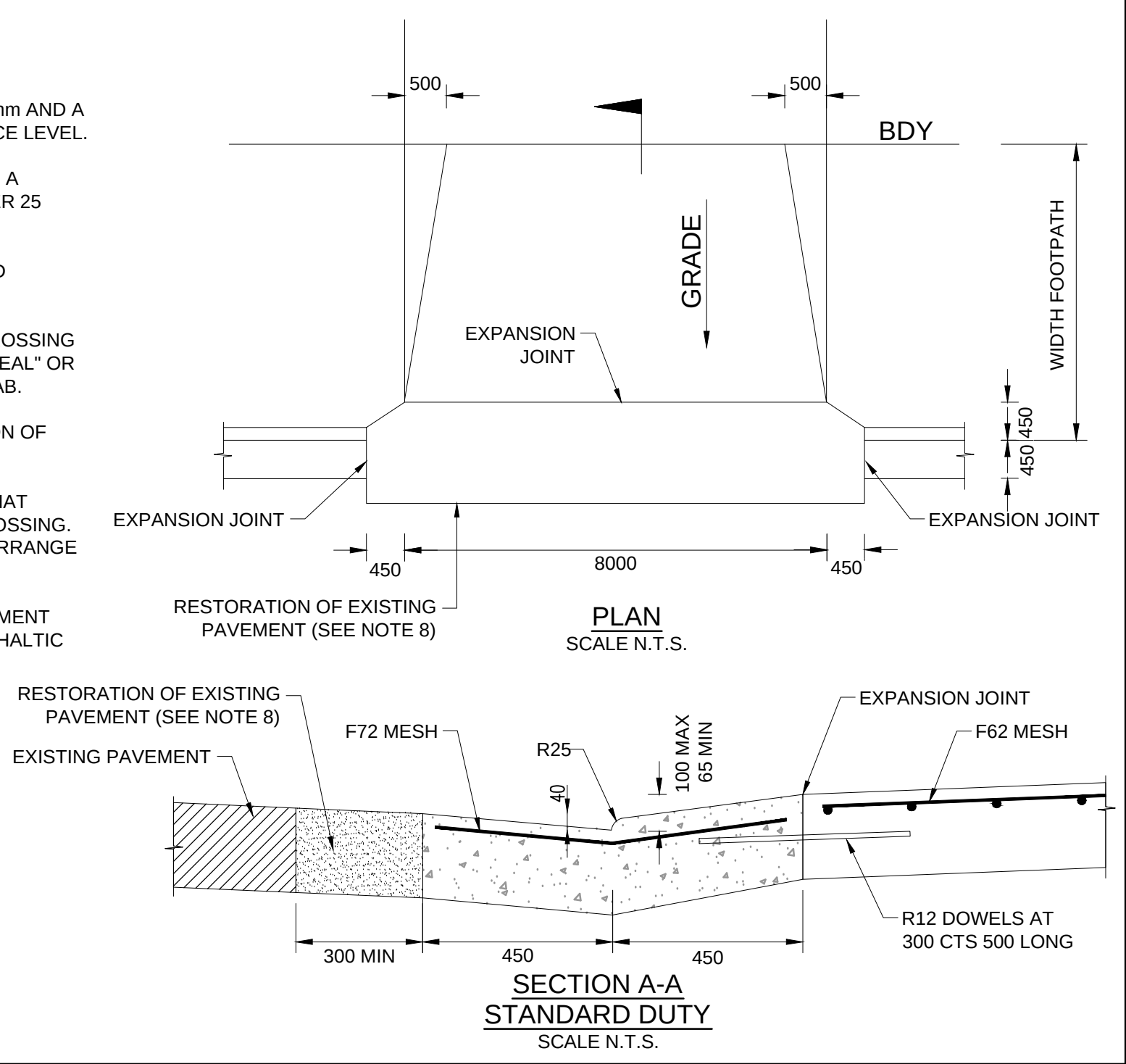


RESTORATION OF TRENCHES FOR SERVICE PIPES
SCALE N.T.S.

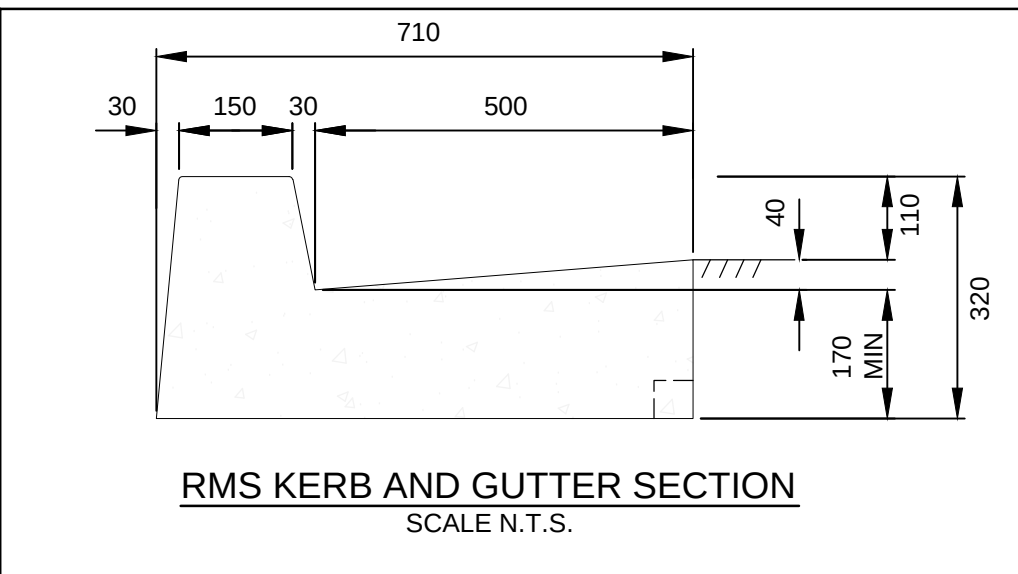
- NOTES:**
- ALL DIMENSION ARE IN MILLITETRES.
 - STEEL FABRIC TO BE PLACED A MINIMUM OF 40mm AND A MAXIMUM 60mm BELOW THE CONCRETE SURFACE LEVEL.
 - CONCRETE USED IN THE WORK SHALL DEVELOP A MINIMUM CRUSHING STRENGTH OF 25 MPa AFTER 25 DAYS.
 - GUTTER CROSSING TO BE POURED BEFORE AND SEPARATELY FROM FOOTPATH CROSSING.
 - EXPOSED LENGTH OF DOWEL FROM GUTTER CROSSING POUR TO BE COATED WITH "BRUSHDALE DURASEAL" OR EQUIVALENT PRIOR TO POURING FOOTPATH SLAB.
 - REFER TO ELECTRICITY SUPPLIER FOR LOCATION OF CABLE DUCTS.
 - TELECOMMUNICATIONS SUPPLIER REQUIRES THAT CONDUITS BE PROVIDED UNDER FOOTPATH CROSSING. THREE WORKING DAYS NOTICE REQUIRED TO ARRANGE INSTALLATION.
 - PROVIDE SAWCUT TO EDGE OF DAMAGED PAVEMENT PRIOR TO RESTORATION WITH FULL DEPTH ASPHALTIC CONCRETE (AC 10).

CROSSING TYPE	S
STANDARD DUTY	1000mm MINIMUM
MEDIUM DUTY	500mm MINIMUM
HEAVY DUTY	500mm MINIMUM

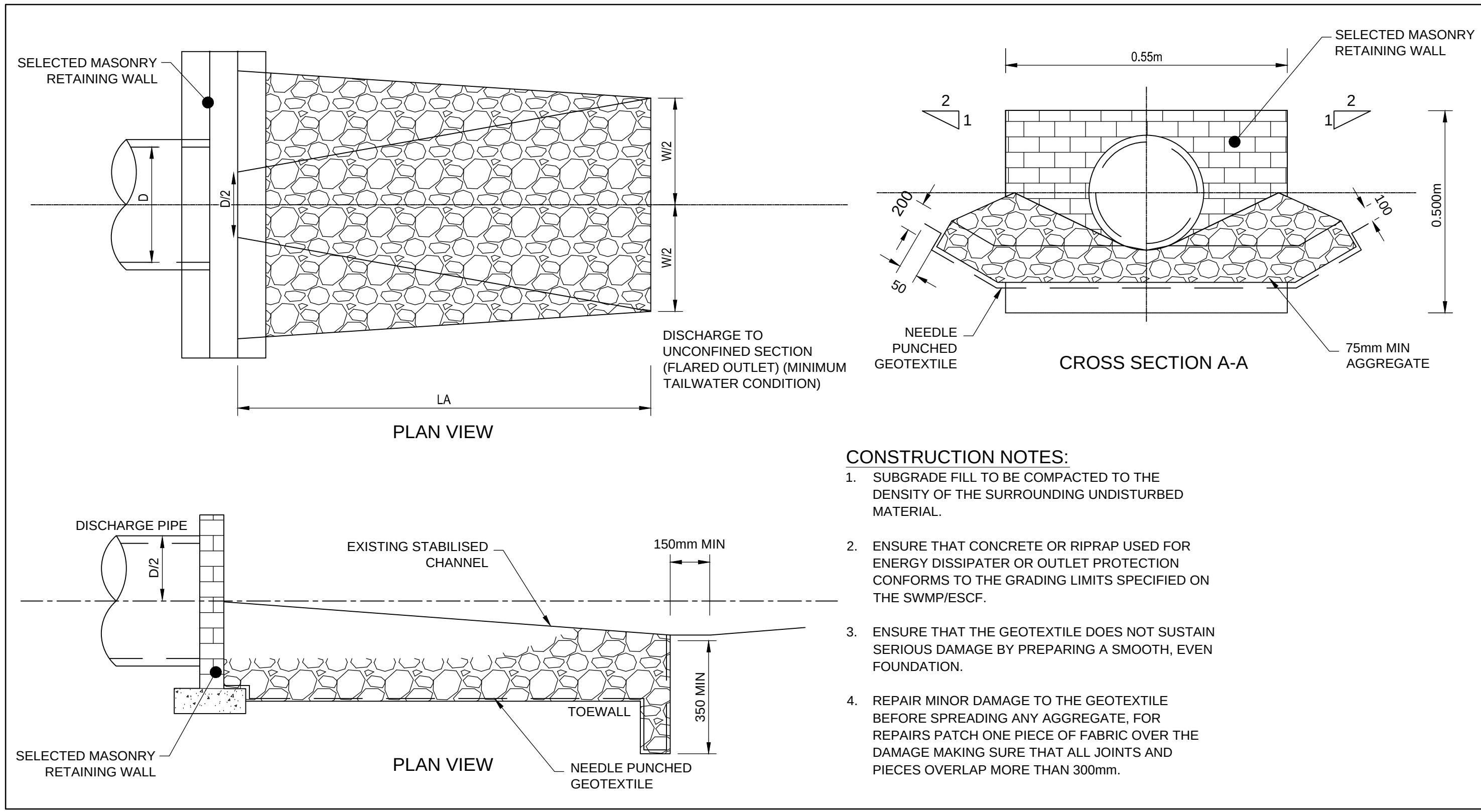
GUTTER & FOOTPATH CROSSING
SCALE N.T.S.



150mm KERB & GUTTER
SCALE N.T.S.



SA BARRIER KERN AND CHANNEL ADJACENT TO FOOTWAY
SCALE N.T.S.



CONCRETE HEADWALL & ENERGY DISSIPATER SD 5-6
N.T.S.

DEVELOPMENT APPLICATION

Issue	Description	Date	Design	Manager
D	ISSUE FOR DEVELOPMENT APPLICATION	22/04/2021	P.T.	J.B.
C	ISSUE FOR DEVELOPMENT APPLICATION	07/04/2021	P.T.	J.B.
B	ISSUE FOR DEVELOPMENT APPLICATION	12/02/2021	P.T.	J.B.
A	ISSUE FOR DEVELOPMENT APPLICATION	02/11/2020	P.T.	J.B.

Certification By:

Architect

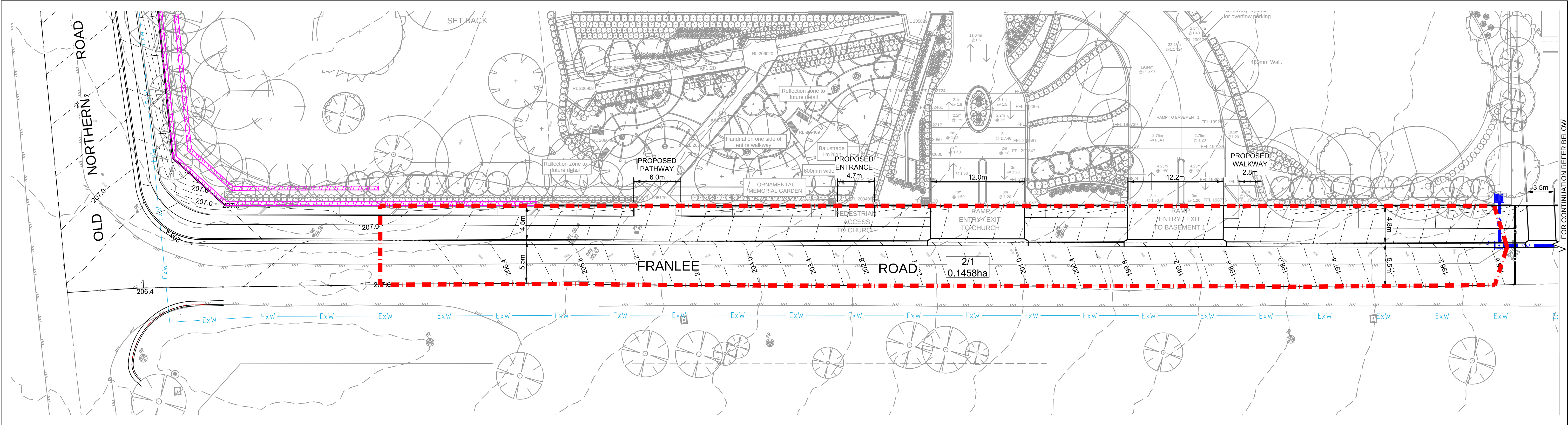
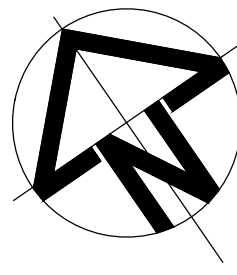
DESIGN CUBICLE PTY LTD
WIMBORNET ARCHITECT - Sam Mei-Hsin Lu (98842)
ADD: 44 SCORRELL STREET
NORTH PARRAMATTA
TEL: 0680 2778
FAX: 0680 1242
EMAIL: sam@designcubicle.com.au
WEB: www.designcubicle.com.au
ABN: 47 116315 333

Scale

AUSTRALIAN CONSULTING ENGINEERS.
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LEVEL 4, 470 CHURCH STREET NORTH PARRAMATTA NSW 2150
PH: (02) 9765 1500 FX: (02) 9765 1515
EMAIL: info@aceeng.com.au

Project
**669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION**

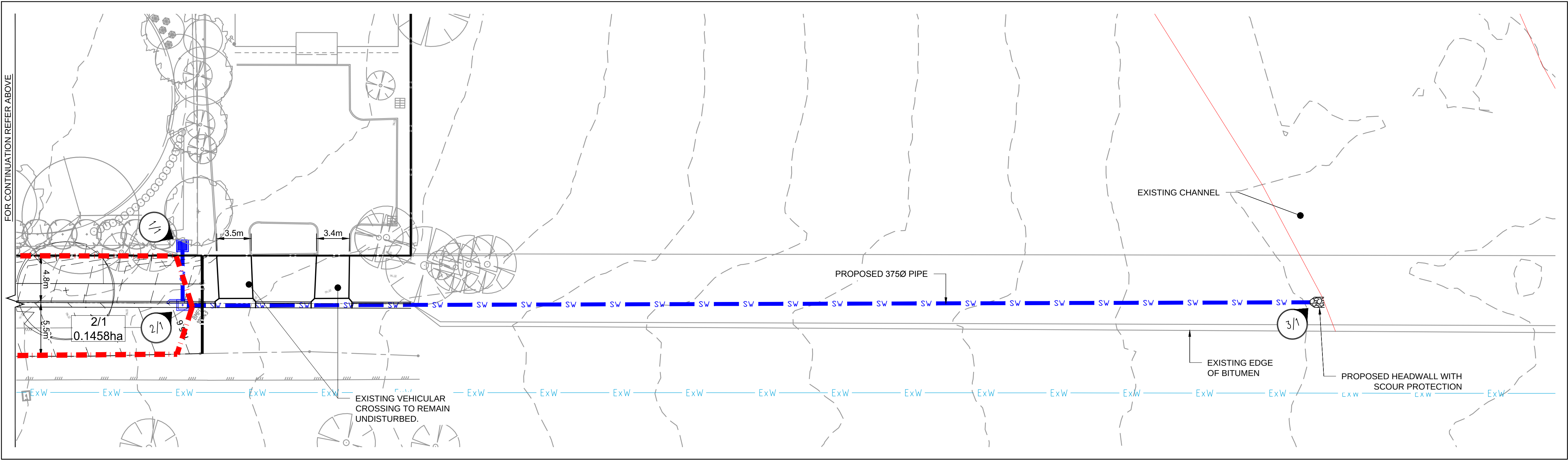
CONSTRUCTION NOTES AND DETAILS SHEET			
Scale N.T.S.	Project No. 200762	Dwg. No. C501	Issue D



CATCHMENT PLAN
SCALE 1:100

LEGEND

- LOT BOUNDARY
- K&G
- PROPOSED KERB & GUTTER
- PROPOSED CONTROL LINE & LINE OF SAWCUT
- DESIGN CONTOURS
- PROPOSED CATCHMENT
- PROPOSED CATCHMENT AREA
- PROPOSED RETAINING WALL
- EXISTING ROAD CENTRE LINE
- EXISTING EDGE OF BITUMEN
- EXISTING CONTOURS
- EXISTING KERB & GUTTER
- EXISTING WATER MAIN



CATCHMENT PLAN
SCALE 1:100



NOTE:
ALL EXISTING SERVICES TO BE
ADJUSTED TO MATCH
PROPOSED SURFACE LEVELS.

DEVELOPMENT APPLICATION

A		ISSUE FOR DEVELOPMENT APPLICATION		07/04/2021	P.T.	J.B.
Issue	Description	Date	Design	Manager		
1	0	1cm at full size	10cm	20cm		

Certification By:

Architect

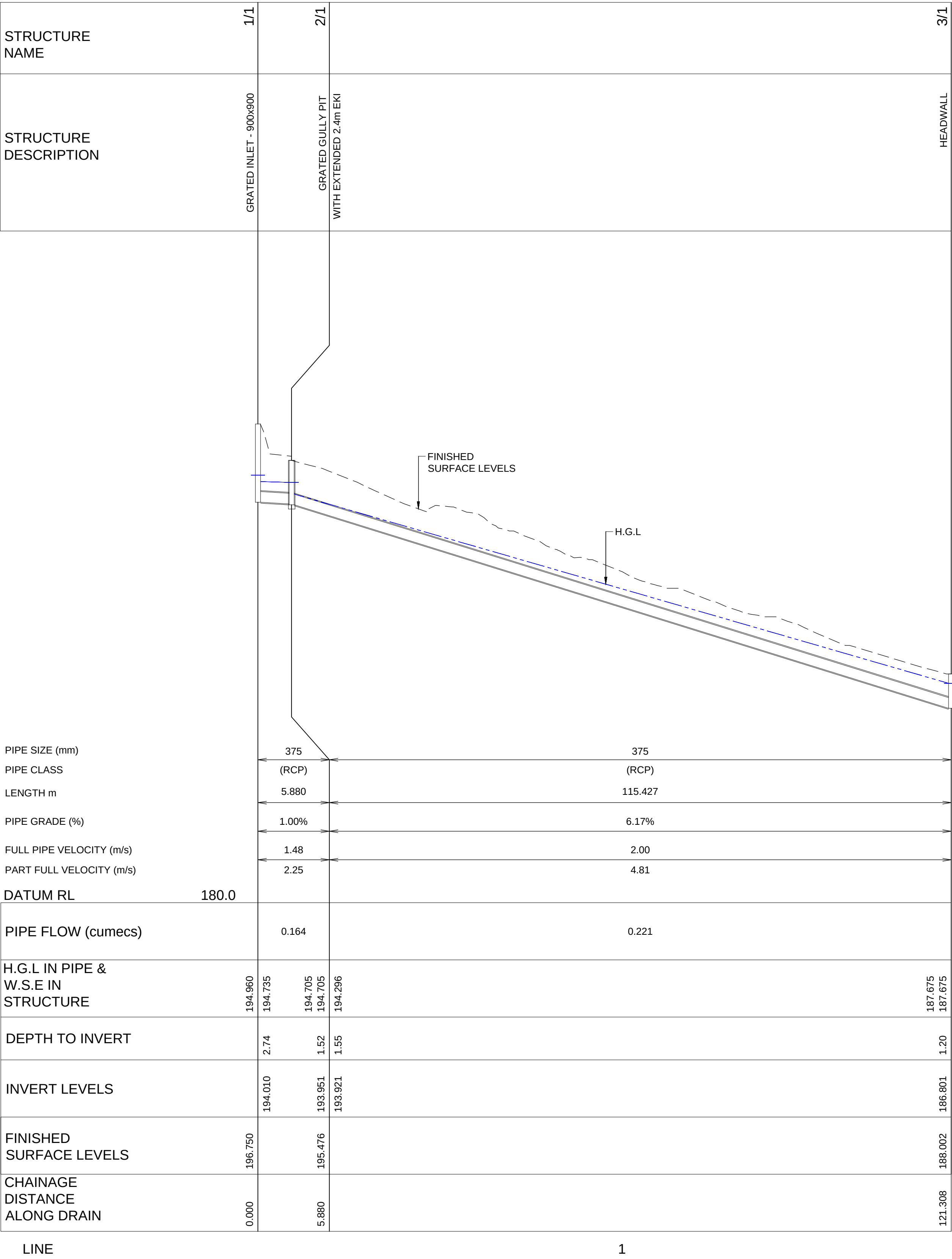
DESIGN CUBICLE PTY LTD
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ABN: 47 116191 233

Scale
0 2 4 6 8 10 12 m
SCALE 1:250 @ A1

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Project
669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title
CATCHMENT PLAN
Scale 1:250 A1 Project No. 200762 Dwg. No. C601 Issue A



LINE

1

DEVELOPMENT APPLICATION

A	ISSUE FOR DEVELOPMENT APPLICATION	07/04/2021	P.T.	J.B.
Issue	Description	Date	Design	Manager
1	0	1cm at full size	100m	200m

Certification By:

Architect

DESIGN CUBICLE PTY LTD
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Scale

SCALE 1:250 @ A1

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Project

669 OLD NORTHERN ROAD, DURAL
PUBLIC DOMAIN WORKS
CIVIL ENGINEERING PLANS
DEVELOPMENT APPLICATION

Drawing Title

STOMWATER
LONGITUDINAL SECTION

Scale	A1	Project No.	Dwg. No.	Issue
1:250		200762	C701	A