

MAPLE GROVE ESTATE - STAGE 06

SATTERLEY PROPERTY GROUP

CARDINIA SHIRE COUNCIL

CONSTRUCTION NOTES

SITE MANAGEMENT

- A1. Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health & Safety Act 2004, including all relevant regulations, have been addressed. In particular, the required notifications must be conveyed to the Worksafe Victoria - Health & Safety division with respect to trenching operations. Details of the contractors occupational health & safety procedures must be lodged with the superintendent prior to commencement of works.
- A2. All native trees & shrubs to be retained unless road construction necessitates their removal or removal is directed by the engineer. A town planning permit is required for the removal of native trees & / or vegetation. The removal or retention of any existing trees must be in accordance with the approved landscape plan, or else approval will be required from the Cardinia Shire Council landscape approvals officer.
- A3. Existing dam or watercourses to be excavated to a firm base & backfilled as specified. Consulting engineer to be notified when the dam or watercourses are excavated to a firm base. No filling is to be placed prior to dams being inspected & levels taken. Backfilling is to be carried out to the satisfaction of the Council supervising engineer.
- A4. Prior to commencement of works, the contractor must submit a Site Management Plan (SMP) to the consultant for approval. The contractor must comply with the recommendations of the Environment Protection Authority publication No.275 "Construction techniques for sediment pollution control". Appropriate siltation control is to be maintained throughout the construction & maintenance period of the works.
- A5. Provide temporary safety barrier fence (Farm Fence as per MW Std Dwg 7251/08/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. A temporary fence shall be erected & maintained around existing trees, nominated to be retained, at all times during construction.
- A7. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3.

GENERAL

- B1. All works to be carried out in accordance with AS2124-1992 general conditions of contract & the Cardinia Shire Council current specification & standard drawings & to the satisfaction of the Cardinia Shire Council works supervisor.
- B2. Council to be notified two (2) clear days prior to commencement of works.
- B3. Before commencement of works on trenches in excess of 1.5m deep, the civil contractors construction supervisor must give notice in writing of such proposals to Worksafe Victoria in accordance with Part 5.1, Division 4 of the Occupational Health & Safety regulations (2017) & undertake safety precautions in trenching operations in accordance with Worksafe Compliance Code - Excavations Edition 2, December 2019.
- B4. Lots to be graded (1 in 150 min slope) & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.
- B5. On completion the contractor is responsible for the removal of all rubbish & spoil from site. No surplus trees, vegetation or other material is to be burnt on site.
- B6. Reserves to be free draining & to be left in a condition satisfactory to the Cardinia Shire Council works supervisor.
- B7. Where works are in the vicinity of existing services these services are to be located & the various authorities notified prior to the commencement of works.
- B8. All TBM's & control points are to be maintained & protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense.
- B9. Provide painted paling fence along any boundary common to lots & municipal reserves as per Council Std. Dwg. S-706. Palings to be on the reserve side.

ROADWORKS

- C1. 100e agricultural pipe drains (MPA standard drawing EDCM 202) to be placed behind all kerb & channel & buffer pitchers & where directed by the engineer.
- C2. Filling in all properties & road reserves is to be carried out using approved clay fill. Top soil & all vegetable matter to be stripped from site prior to filling. All filling to be carried out in accordance with AS3798-2007 and the geotechnical report. Level 1 inspection and testing to be carried out in accordance with AS3798-2007 Section 8.2. A fill report must be submitted to the Consultant, showing from a NATA registered soil testing laboratory.
- C3. Importing Fill: All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, & any contaminants are within accepted levels. Under no circumstances should fill material enter or leave the site without the permission of the supervising engineer & Council works supervisor, prior to it being appropriately tested. All vehicles transporting fill material to & from the site must have appropriate measures in place to ensure that material does not get onto roads & into stormwater systems & natural waterways.
- C4. Batters to be 1 in 5 for fill & 1 in 3 for cut unless noted otherwise.
- C5. Cut batters are to be grassed & mulched with a mixture of chopped grass, straw & bitumen emulsion.
- C6. Where cut batters exceed 700mm an additional 300mm berm shall be formed behind footpath.
- C7. Access ramps are to be constructed where cut batters exceed 1.0m. They are to be graded 1 in 10 for the first 2.5m from the back of path & then at a maximum of 1 in 4 to natural surface.

- C8. The water conduit offset from the lot boundary is given on the water reticulation plan. The contractor must construct conduits to accord with the given offset & ensure that the concreter marks the kerb & footpath exactly above the conduit.
- C9. Irrigation conduits are to be DN100 DWV PVC installed beneath the pavement and/or capping layer, if present. Locations are to be marked using a green dot spray painted on the top of kerb.
- C10. All footpaths are to be 125mm thick 25MPa concrete with SL72 mesh centrally located in accordance with the MPA standard drawing EDCM 401.
- C11. NBN Co to be notified seven (7) days prior to concrete works being placed.
- C12. Electrical distribution pits within footpaths are to be a minimum of 300mm within the edge of the path. Concrete is to be placed around distribution pits to a minimum depth of 200mm.
- C13. All street signs to be constructed & erected to current Cardinia Shire Council standards including logo. Court street names are to show court name only.
- C14. Traffic control signs, markings & delineators to be installed in accordance with AS1742.2. All line marking is to be long life road marking, with longitudinal lines in thermoplastic & transverse markings in cold applied.
- C15. Driveways to be constructed in accordance with the MPA standard drawings EDCM 501 & EDCM 502. Single driveways to be a minimum 3.5m wide & to be offset 0.75m from side boundary or easement unless otherwise shown.
- C16. Kerb transition to take place in the minor street over a 2.0m length from either the tangent point or TP pit.
- C17. Existing road works to be reconstructed as required to provide, without discontinuity, a connection in accordance with design levels & grades.
- C18. Provide 2.5m wide shared footpath through reserves as shown on a curvilinear alignment to the satisfaction of the engineer.
- C19. Tactile ground surface indicators (TGS) are to be installed at all tram crossings & pedestrian cross points in accordance with AS1428.4.1 : 2009 & MPA standard drawing EDCM 403.

DRAINAGE

- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages.
- D2. Lightweight fibreglass type pit lids are required for all drainage pits & all grates for pits are to be Class D, to comply with AS3996 - 2019 unless otherwise shown. All drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring jointed (RRJ). Pipes above this size may be flue jointed with external sealing bands. For pipes greater than 900mm and changes in direction between 2 connecting pipes exceeding 10° construct segmented curves using splayed pipes with bandage joints, having deflections within the manufacturer's specification.
- D4. All pipes to be Class 'Z' R.C. unless noted otherwise. PVC pipes to be Class SH unless specified.
- D5. Pipe trenches beneath the road pavement, footpath or within 150mm of the kerb & channel to be backfilled with 20mm Class 3 FCR in 150mm layers.
- D6. Property inlets to be constructed as per MPA standard drawing EDCM 701 - EDCM 704.
- D7. All proposed drainage stubs to be blanked off at end of pipe with timber planks to the satisfaction of the supervising engineer.

PAVEMENT

- E1. Modification of the pavement requires approval by the Cardinia Shire Council works supervisor.

SURVEY ORIGIN

NAR-NAR-GOON PM 332

10 CANTY LANE

RL 32.751

MGA Coords

MGA Truncated

E 369546.435

E 9546.922

N 5783887.680

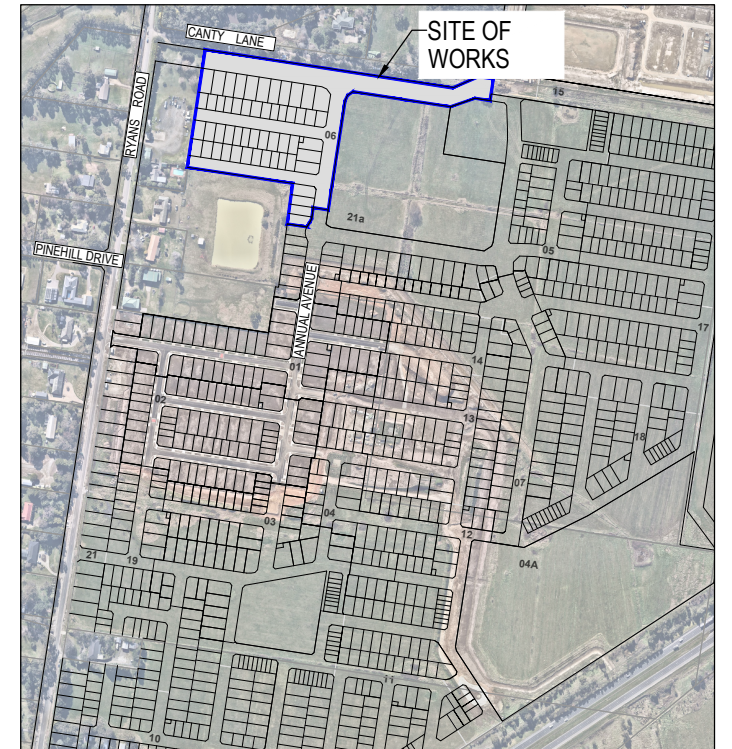
N 3889.141

COORDINATES ARE ON A LOCAL PLANE DATUM BASED UPON MGA2020 ZONE 55 BEARINGS AND TRUNCATED COORDINATES AT PM332. HEIGHTS ARE TO AHD VIDE PERMANENT MARK PM 123 (NAR NAR GOON) RL 17.239 AND SR71M210 RL 17.800.

FOR CONVERSION TO MGA2020 ZONE 55 COORDINATES.
FOR PLANE SHIFT ADD +360,000.000 TO EASTINGS AND
+5,780,000.000 TO NORTHINGS.
FOR SCALE FACTOR MULTIPLY BY 0.9998045 AT PM332

DRAWING INDEX

DRAWING No.	TITLE	REVISION
1701814-06-001	COVER SHEET	P0
1701814-06-002	TYPICAL ROAD CROSS SECTIONS	P0
1701814-06-003	PAVEMENT MAKEUP & GENERAL DETAILS (SHEET 1 OF 2)	P0
1701814-06-004	PAVEMENT MAKEUP & GENERAL DETAILS (SHEET 2 OF 2)	P0
1701814-06-005	RETAINING WALL DETAILS	P0
1701814-06-010	LAYOUT PLAN	P0
1701814-06-020	PAVEMENT PLAN	P0
1701814-06-030	RETAINING WALL PLAN	P0
1701814-06-100	ROAD LONGITUDINAL SECTIONS CANTY BOULEVARD (SHEET 1 OF 2)	P0
1701814-06-101	ROAD LONGITUDINAL SECTIONS CANTY BOULEVARD (SHEET 2 OF 2)	P0
1701814-06-102	ROAD LONGITUDINAL SECTIONS ANNUAL AVENUE	P0
1701814-06-103	ROAD LONGITUDINAL SECTIONS SHADE STREET	P0
1701814-06-104	ROAD LONGITUDINAL SECTIONS CACTI APPROACH	P0
1701814-06-200	ROAD CROSS SECTIONS CANTY BOULEVARD (SHEET 1 OF 2)	P0
1701814-06-201	ROAD CROSS SECTIONS CANTY BOULEVARD (SHEET 2 OF 2)	P0
1701814-06-202	ROAD CROSS SECTIONS ANNUAL AVENUE (SHEET 1 OF 2)	P0
1701814-06-203	ROAD CROSS SECTIONS ANNUAL AVENUE (SHEET 2 OF 2)	P0
1701814-06-204	ROAD CROSS SECTIONS SHADE STREET	P0
1701814-06-205	ROAD CROSS SECTIONS CACTI APPROACH	P0
1701814-06-300	INTERSECTION DETAILS (SHEET 1 OF 4)	P0
1701814-06-301	INTERSECTION DETAILS (SHEET 2 OF 4)	P0
1701814-06-302	INTERSECTION DETAILS (SHEET 3 OF 4)	P0
1701814-06-303	INTERSECTION DETAILS (SHEET 4 OF 4)	P0
1701814-06-350	SIGNAGE & LINE MARKING PLANS	P0
1701814-06-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 4)	P0
1701814-06-401	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 4)	P0
1701814-06-402	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 4)	P0
1701814-06-403	DRAINAGE LONGITUDINAL SECTIONS (SHEET 4 OF 4)	P0
1701814-06-404	PIT SCHEDULE	P0



SITE PLAN

NOT TO SCALE

MELWAY REF: 318 B7

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					

Designed	N.SMOLENAARS
Date	18.07.2025
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	18.07.2025
Approved	C.DAWSON
Reg. No.	PE0012526
Date	18.07.2025
PS Number	PSS931747A

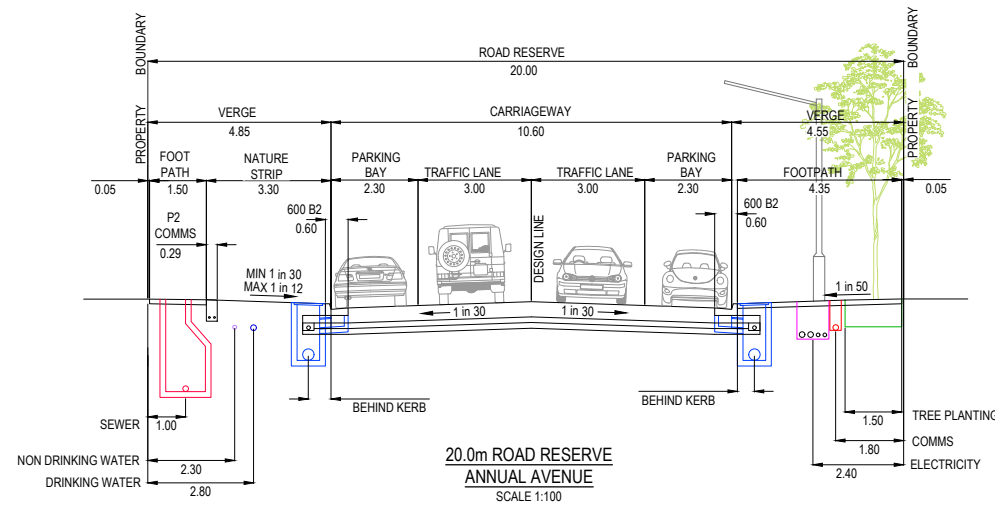
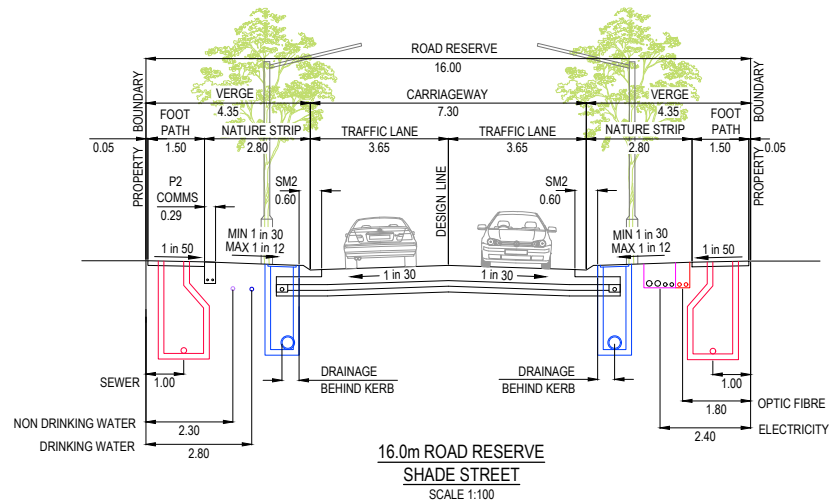
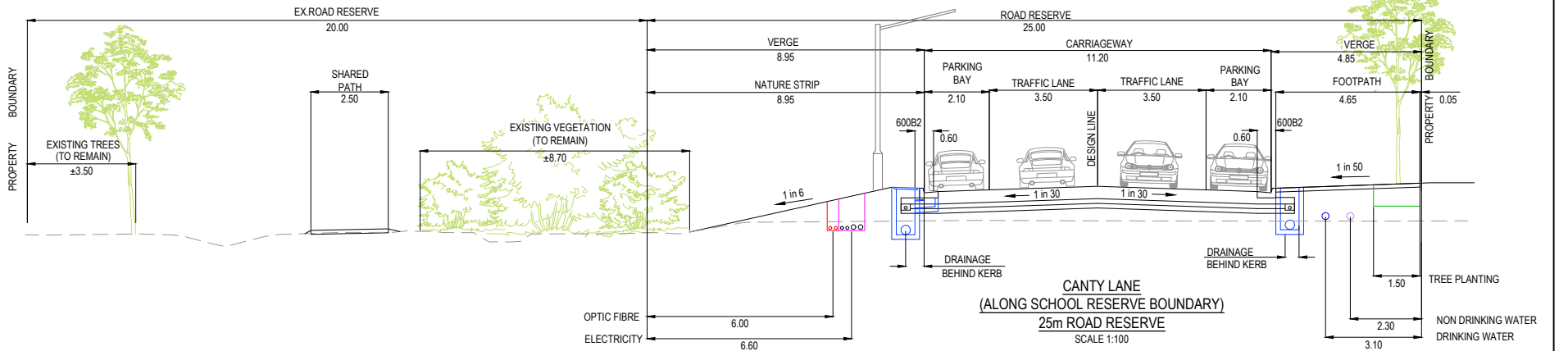
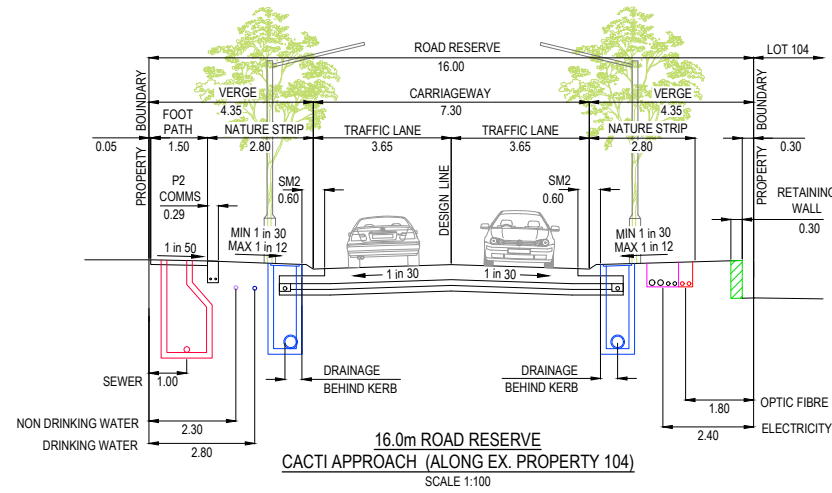
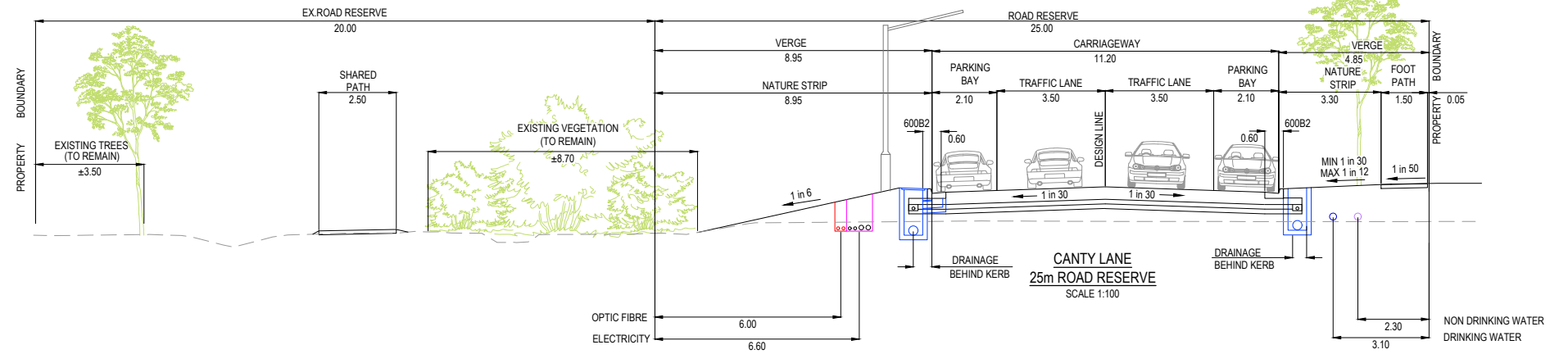
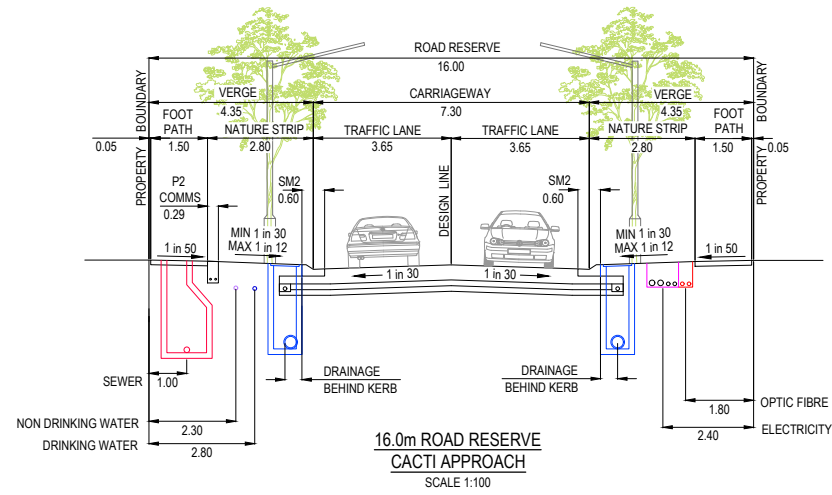
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL
Drawing Title
COVER SHEET

Sheet 01 of 29

Scale
NOT TO SCALE

Project Ref
1701814
Stage No
06
Drawing No
001
Rev
P2



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PE0008272
Date 18.07.2025
PS Number PSS931747A

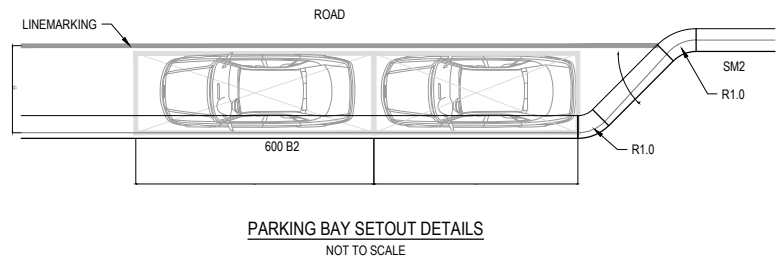
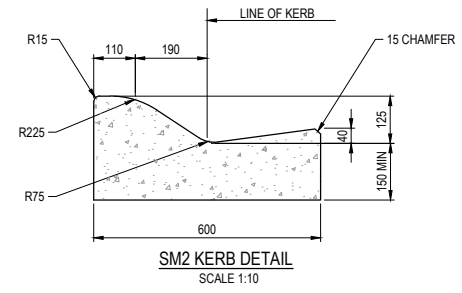
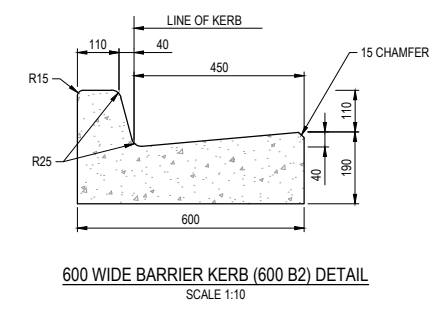
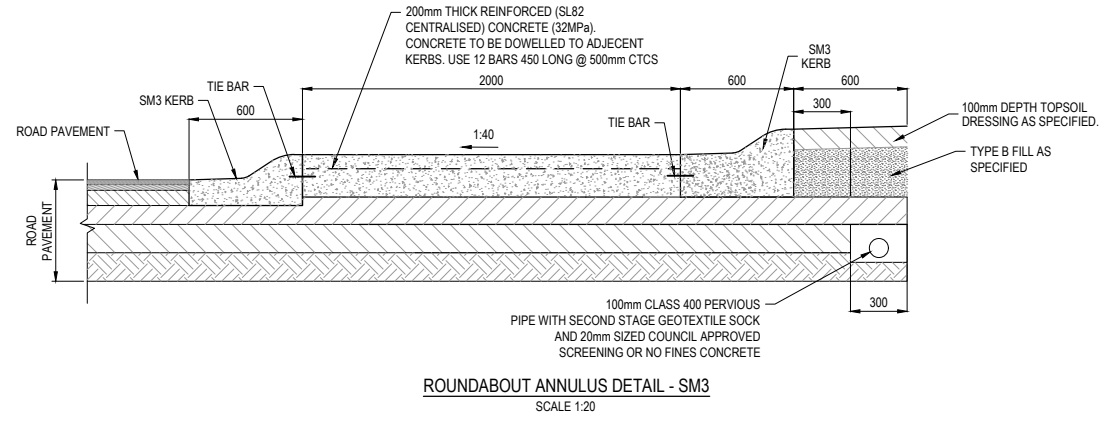
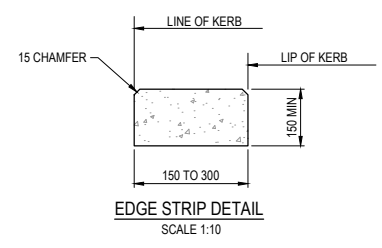
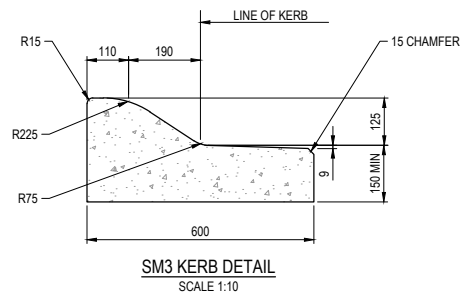
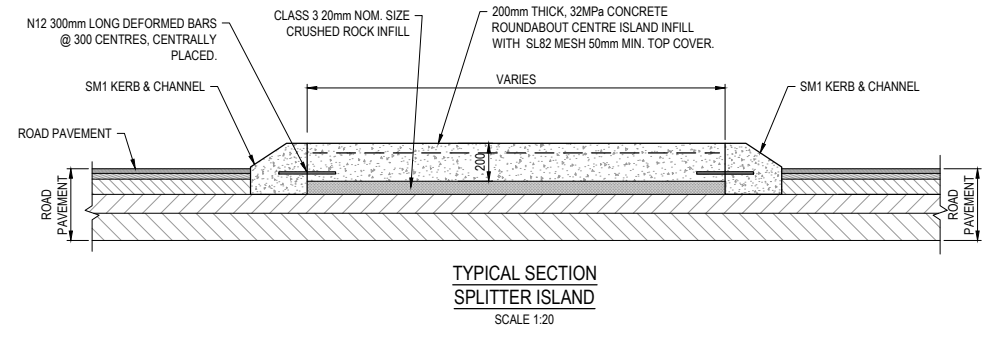
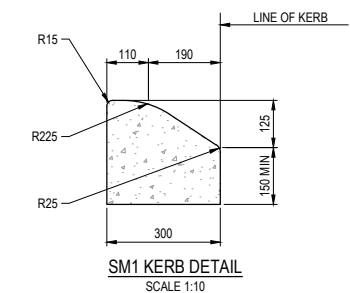
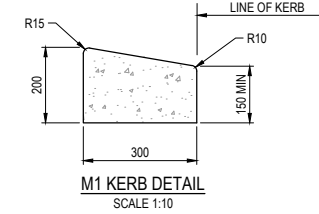
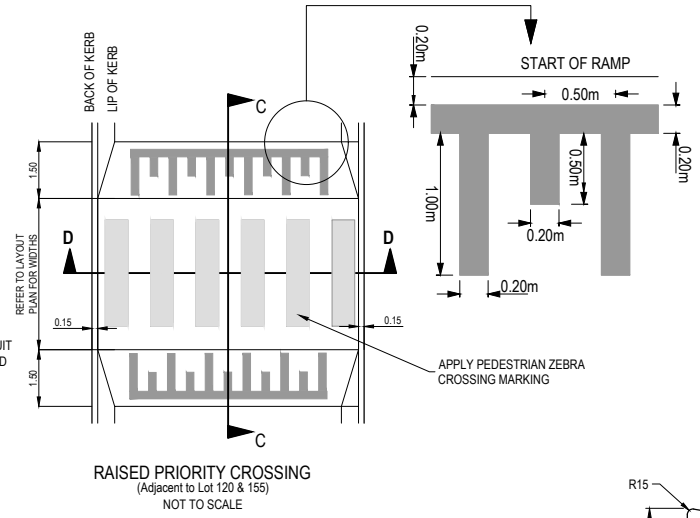
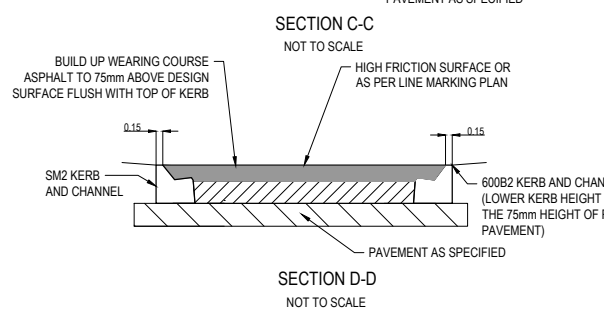
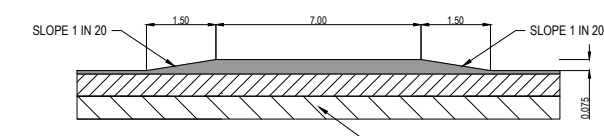
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL
Drawing Title
TYPICAL ROAD CROSS SECTIONS

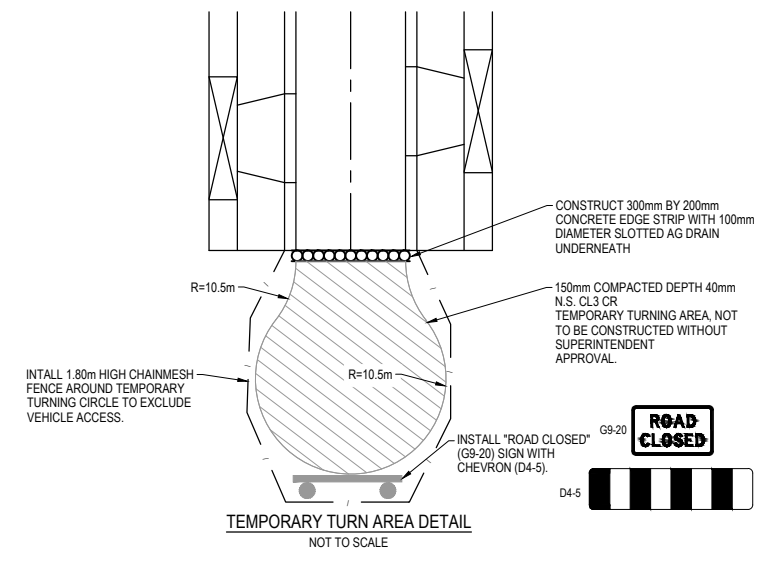
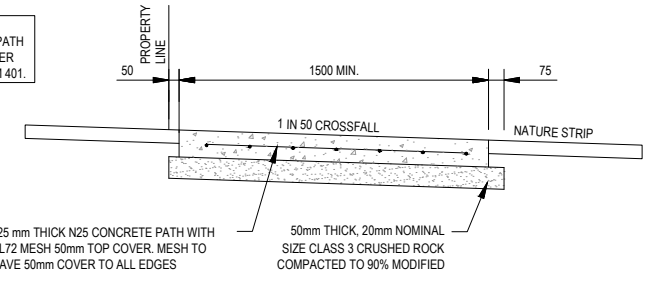
Sheet 02 of 29

Scale
1:100 @ A1

Project Ref Stage No Drawing No Rev
1701814 06 002 P2



NOTE:
FOOTPATHS AND SHARED PATH
TO BE CONSTRUCTED AS PER
STANDARD DRAWING EDCM 401.



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					

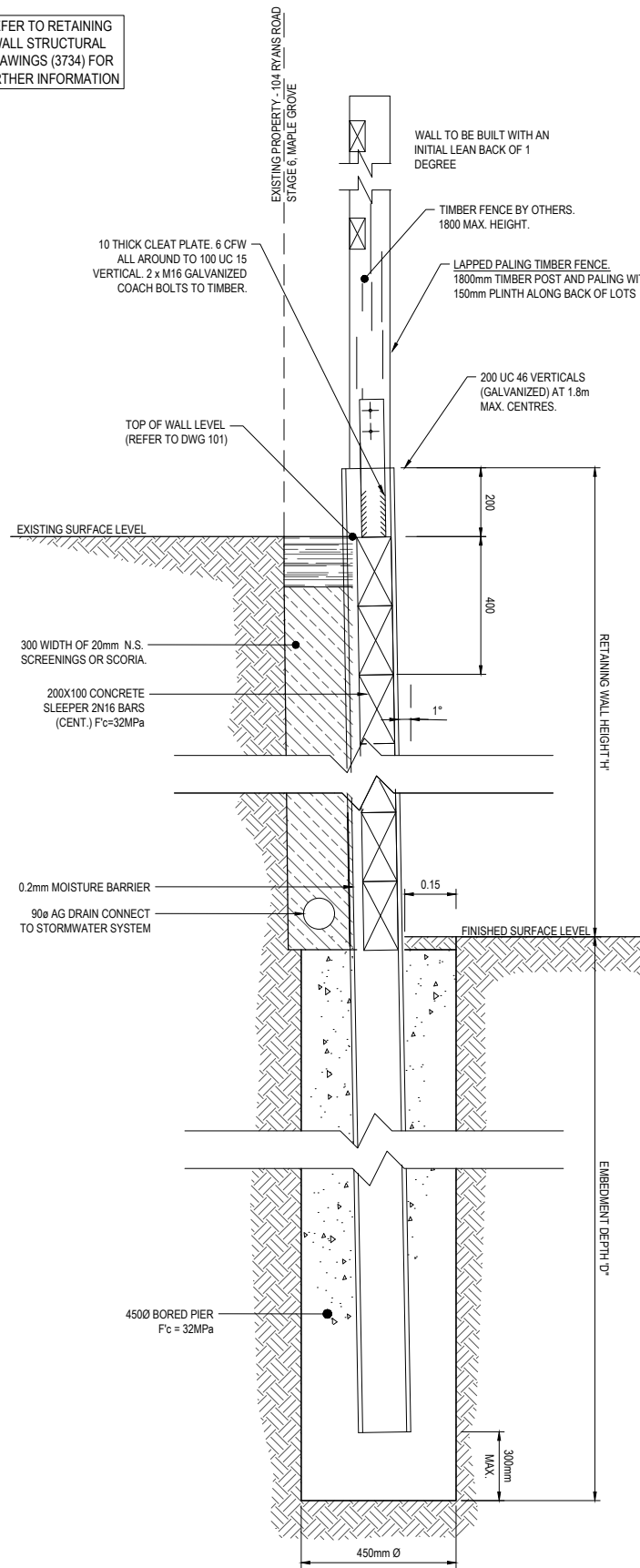
DESIGNED	DATE	DRAWN	CHECKED	DATE	APPROVED	DATE
N.SMOLENAARS	18.07.2025	L.SUTHERLAND	C.DAWSON	18.07.2025	C.DAWSON	18.07.2025

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

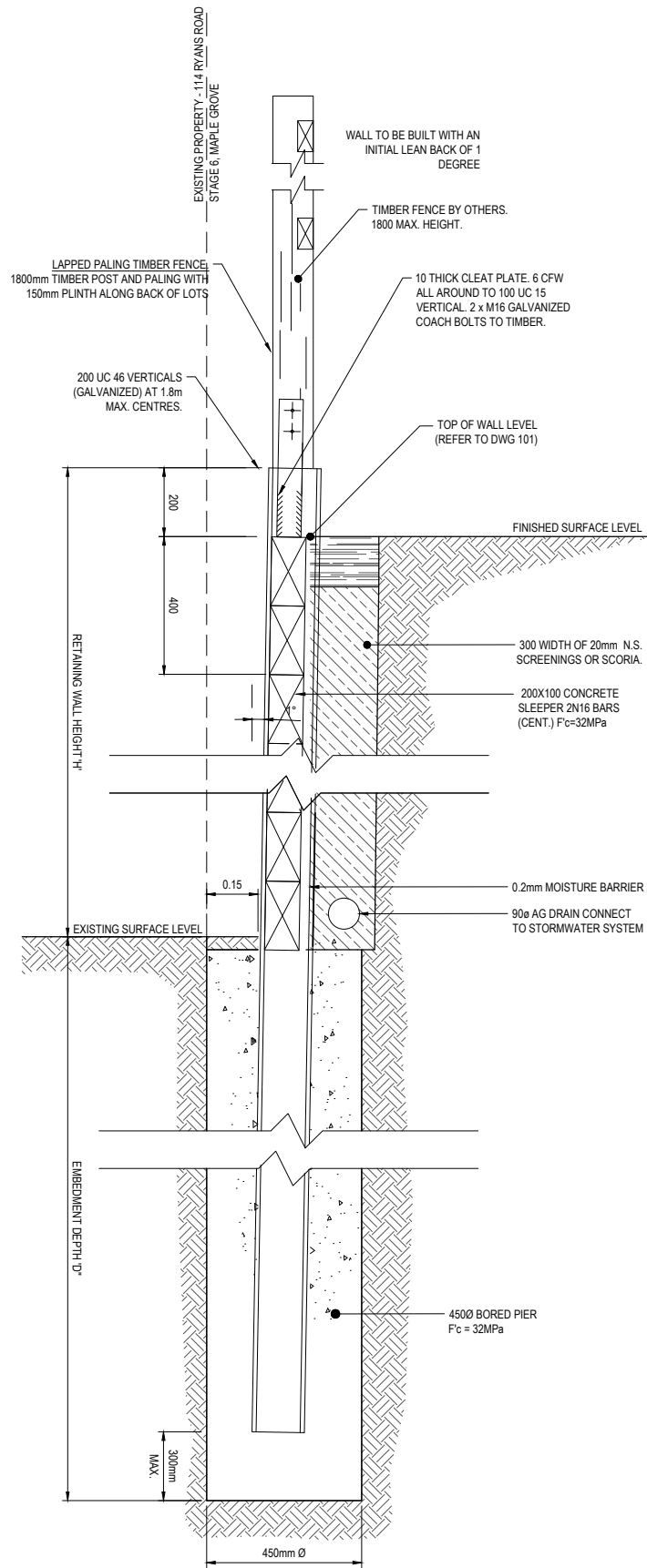
Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL
Drawing Title
PAVEMENT MAKEUP & GENERAL DETAILS
(SHEET 1 OF 2)

Sheet 03 of 29
Scale
AS SHOWN
Project Ref 1701814
Stage No 06
Drawing No 003
Rev P2

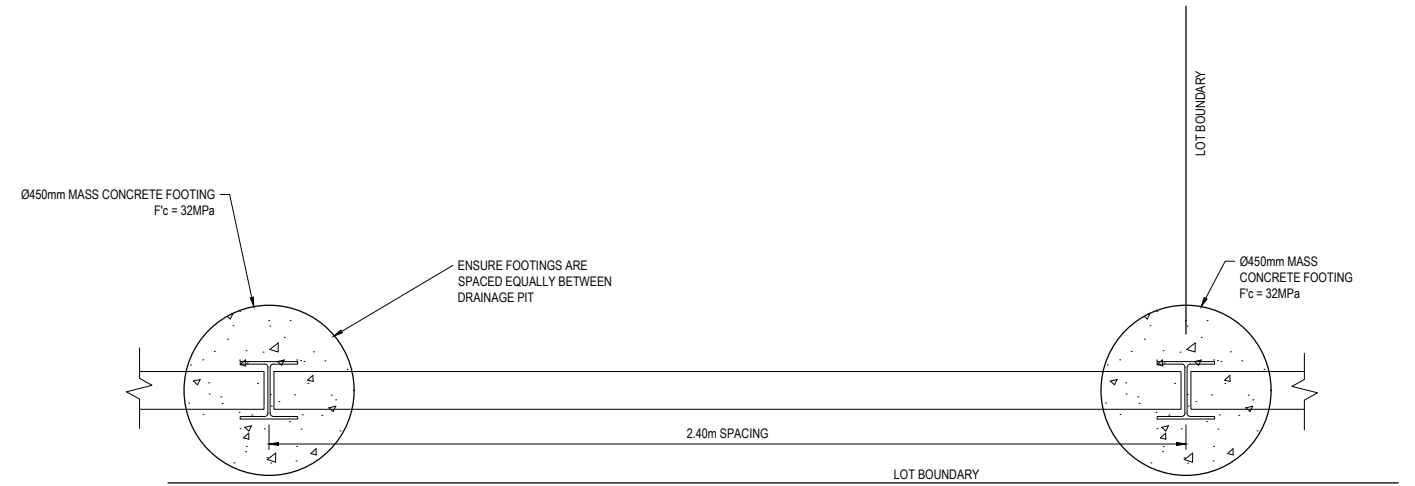
REFER TO RETAINING WALL STRUCTURAL DRAWINGS (3734) FOR FURTHER INFORMATION



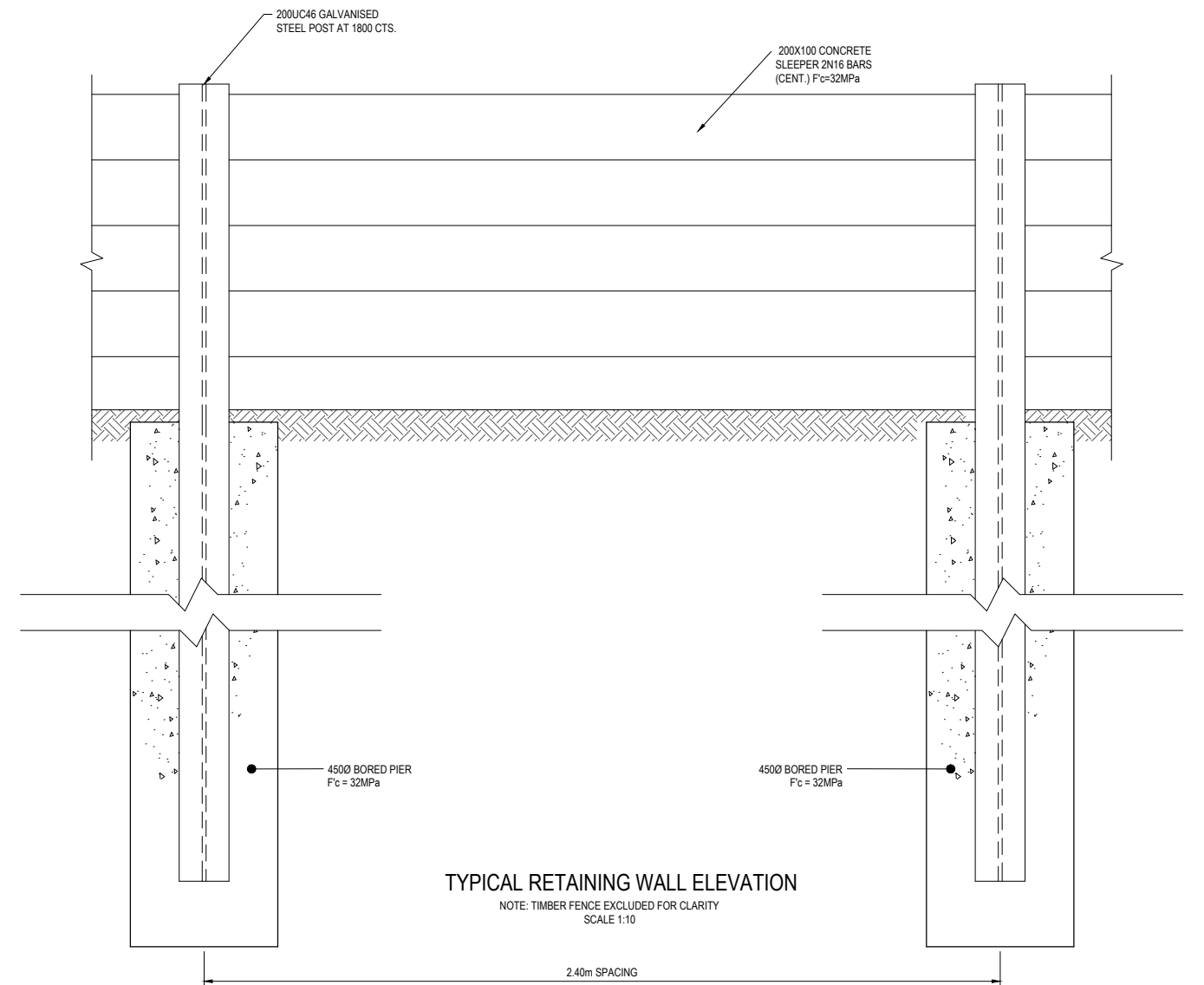
TYPICAL RETAINING WALL SECTION WITHIN SIDE OF LOTS IN CUT
SCALE 1:10



TYPICAL RETAINING WALL SECTION WITHIN SIDE OF LOTS IN FILL
SCALE 1:10



TYPICAL RETAINING WALL PLAN VIEW
NOTE: TIMBER FENCE EXCLUDED FOR CLARITY
SCALE 1:10



TYPICAL RETAINING WALL ELEVATION
NOTE: TIMBER FENCE EXCLUDED FOR CLARITY
SCALE 1:10

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorized copying is permitted

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					

Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PE0006272
Date 18.07.2025
PS Number PSS931747A

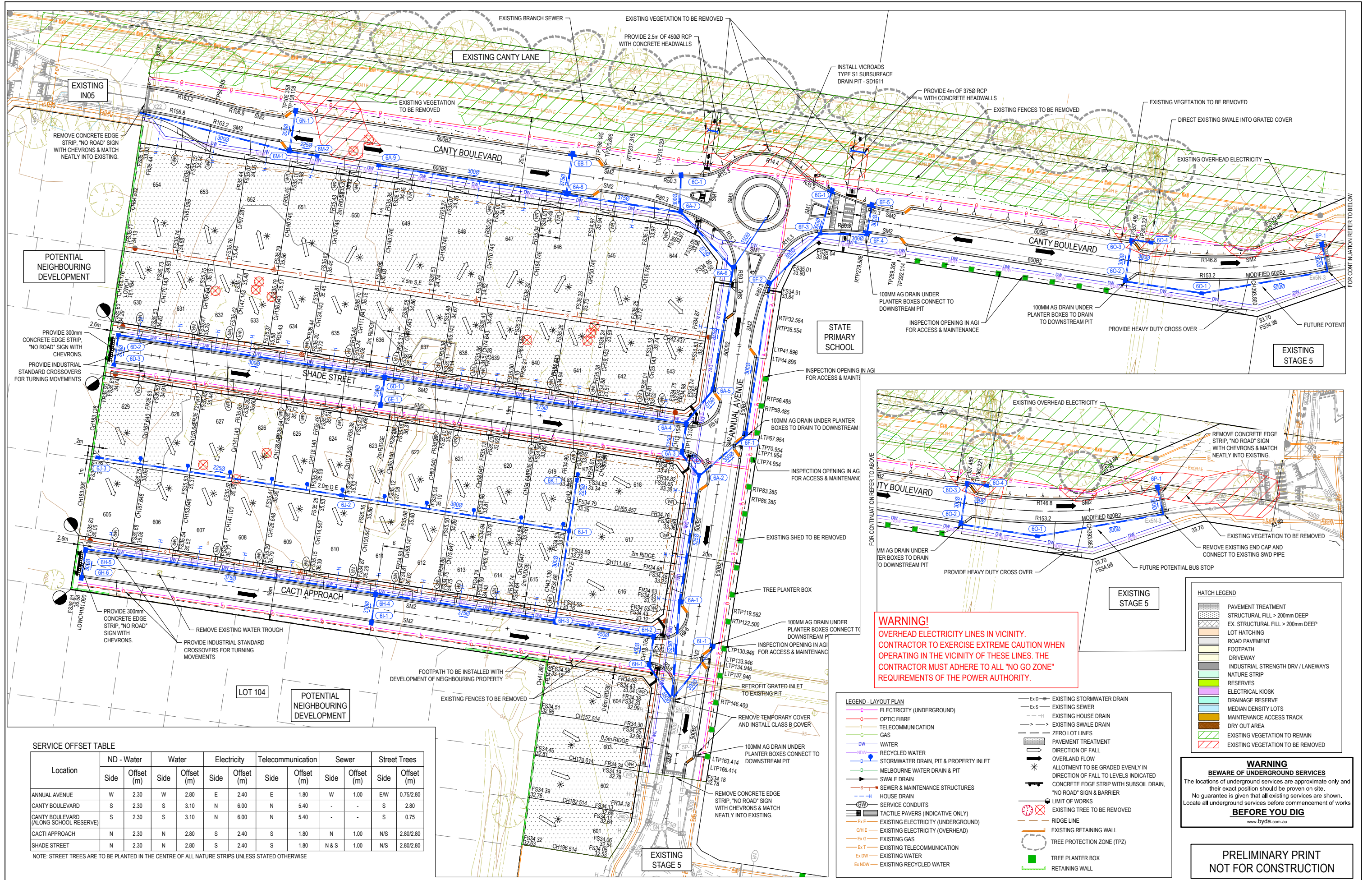
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL
Drawing Title
RETAINING WALL DETAILS

Sheet 05 of 29

Scale
AS SHOWN

Project Ref	Stage No	Drawing No	Rev
1701814	06	005	P2



SERVICE OFFSET TABLE

Location	ND - Water		Water		Electricity		Telecommunication		Sewer		Street Trees	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ANNUAL AVENUE	W	2.30	W	2.80	E	2.40	E	1.80	W	1.00	EW	0.75/2.80
CANTY BOULEVARD	S	2.30	S	3.10	N	6.00	N	5.40	-	-	S	2.80
CANTY BOULEVARD (ALONG SCHOOL RESERVE)	S	2.30	S	3.10	N	6.00	N	5.40	-	-	S	0.75
CACTI APPROACH	N	2.30	N	2.80	S	2.40	S	1.80	N	1.00	N/S	2.80/2.80
SHADE STREET	N	2.30	N	2.80	S	2.40	S	1.80	N & S	1.00	N/S	2.80/2.80

NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS UNLESS STATED OTHERWISE

LEGEND - LAYOUT PLAN

- Electricity (Underground)
- Optic Fibre
- Telecommunication
- Gas
- Water
- Recycled Water
- Stormwater Drain, Pit & Property Inlet
- Melbourne Water Drain & Pit
- Sewer & Maintenance Structures
- House Drain
- Service Conduits
- Tactile Pavers (Indicative Only)
- Existing Electricity (Underground)
- Existing Electricity (Overhead)
- Existing Gas
- Existing Telecommunication
- Existing Water
- Existing Recycled Water
- Existing Stormwater Drain
- Existing Sewer
- Existing House Drain
- Existing Swale Drain
- Zero Lot Lines
- Pavement Treatment
- Direction of Fall
- Overland Flow
- Allotment to be Graded Evenly in Direction of Fall to Levels Indicated
- Concrete Edge Strip with Subsurface Drain, 'No Road' Sign & Barrier
- Limit of Works
- Existing Tree to be Removed
- Ridge Line
- Existing Retaining Wall
- Tree Protection Zone (TPZ)
- Tree Planter Box
- Retaining Wall

HATCH LEGEND

- Pavement Treatment
- Structural Fill > 200mm Deep
- Ex Structural Fill > 200mm Deep
- Lot Hatching
- Road Pavement
- Footpath
- Driveway
- Industrial Strength Drv / Laneways
- Nature Strip
- Reserves
- Electrical Kiosk
- Drainage Reserve
- Median Density Lots
- Maintenance Access Track
- Dry Out Area
- Existing Vegetation to Remain
- Existing Vegetation to be Removed

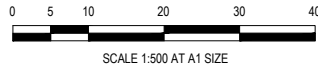
WARNING
BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.

BEFORE YOU DIG
www.byda.com.au

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No: PE000872
Date: 18.07.2025
PS Number: PSS31747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

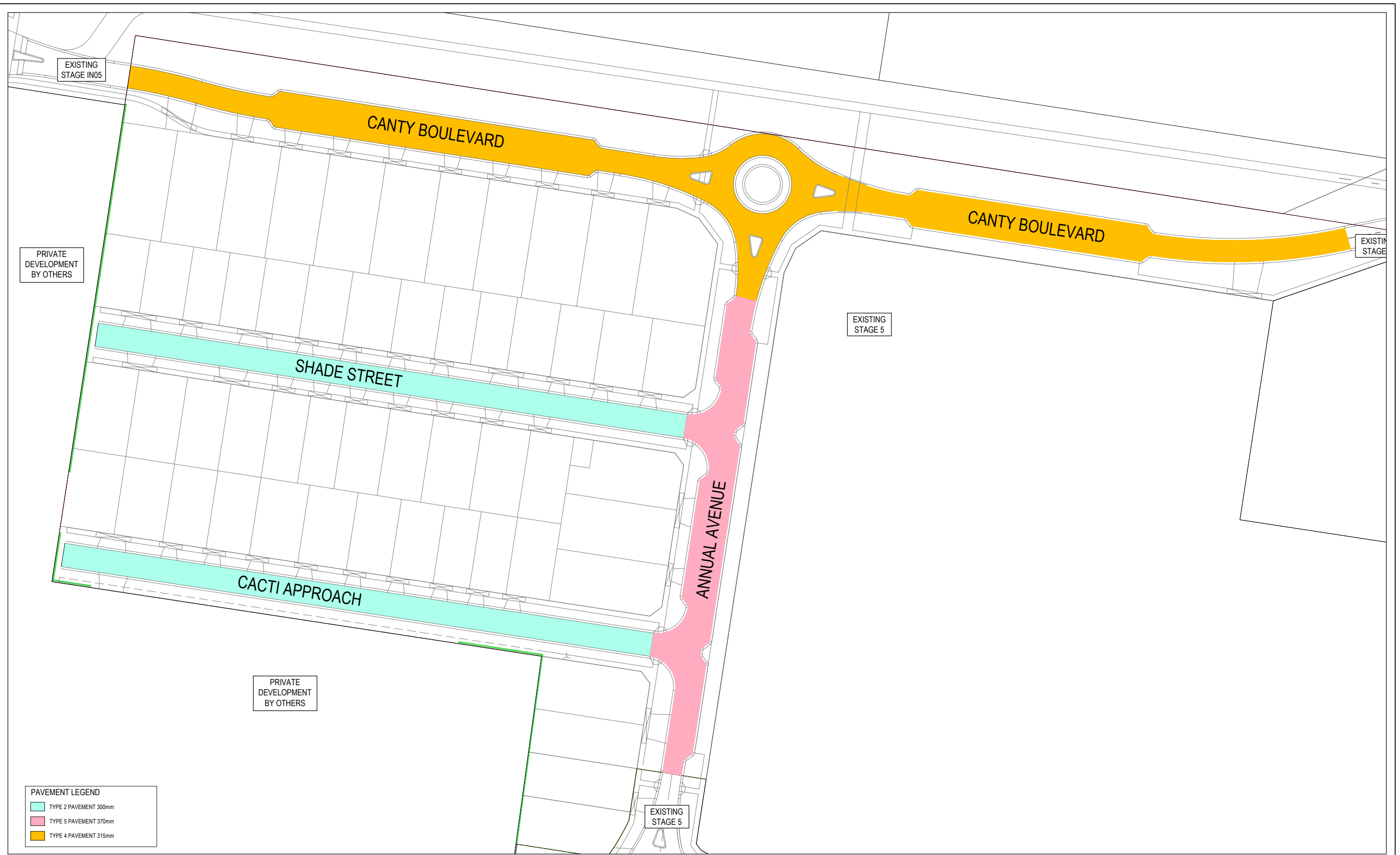
Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title
LAYOUT PLAN

Sheet 06 of 29
Scale 1:500 @ A1

Project Ref: 1701814
Stage No: 06
Drawing No: 010
Rev: P2

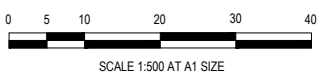
Q:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham\Stage 06\Drawings\1701814-06-010-LAY.dwg



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

REV	DESCRIPTION	DATE	DRN	APP.	REV	DESCRIPTION	DATE	DRN	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PE0008272
Date 18.07.2025
PS Number PSS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

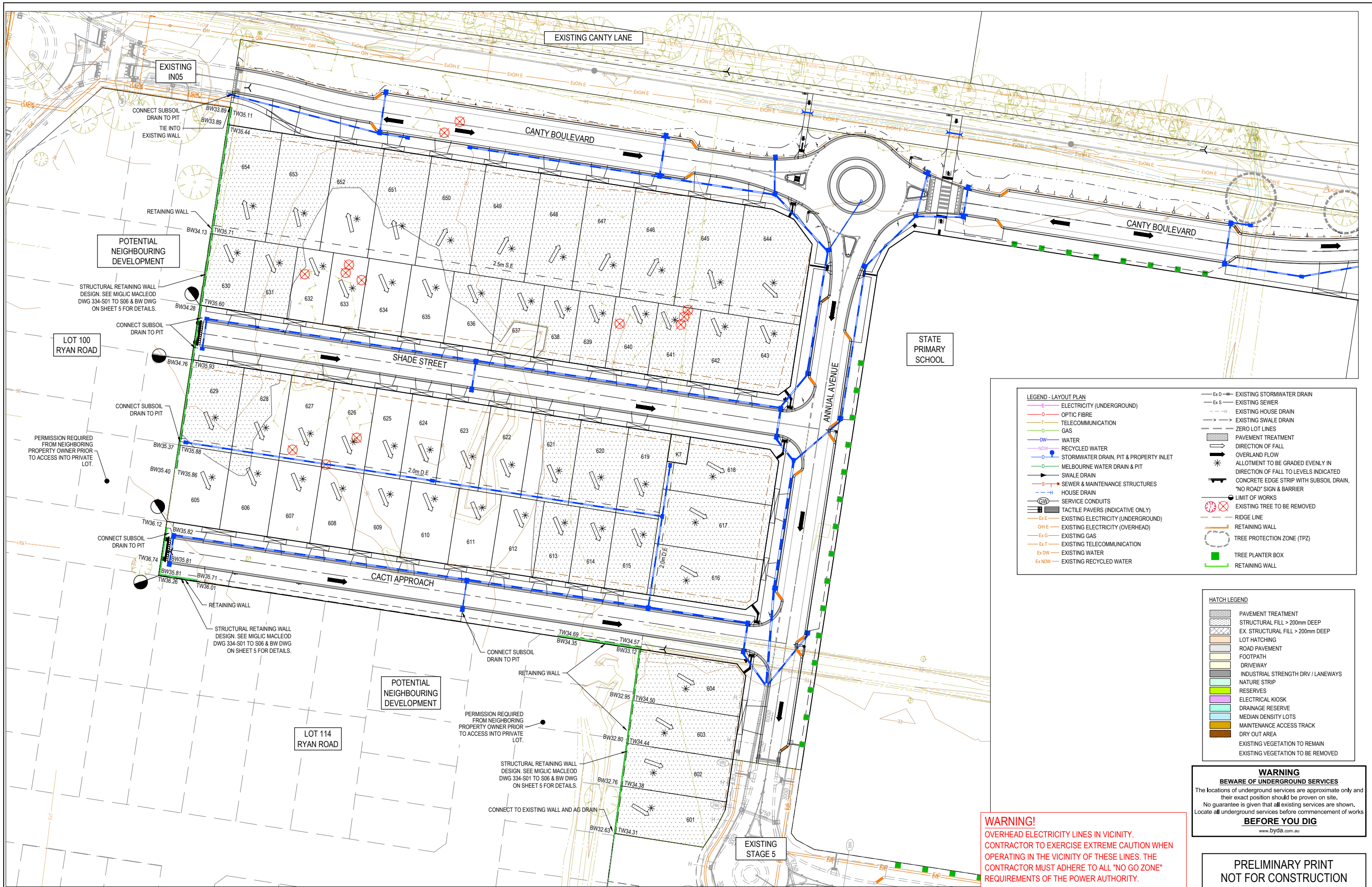
Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL
Drawing Title
PAVEMENT PLAN

Sheet 07 of 29

Scale
1:500 @ A1



Project Ref	Stage No	Drawing No	Rev
1701814	06	020	P2



LEGEND - LAYOUT PLAN

- E — ELECTRICITY (UNDERGROUND)
- OF — OPTIC FIBRE
- T — TELECOMMUNICATION
- G — GAS
- DW — WATER
- NDW — RECYCLED WATER
- S — STORMWATER DRAIN, PIT & PROPERTY INLET
- M — MELBOURNE WATER DRAIN & PIT
- SW — SWALE DRAIN
- S+M — SEWER & MAINTENANCE STRUCTURES
- H — HOUSE DRAIN
- SC — SERVICE CONDUITS
- TP — TACTILE PAVERS (INDICATIVE ONLY)
- Ex E — EXISTING ELECTRICITY (UNDERGROUND)
- OH E — EXISTING ELECTRICITY (OVERHEAD)
- Ex G — EXISTING GAS
- Ex T — EXISTING TELECOMMUNICATION
- Ex DW — EXISTING WATER
- Ex NDW — EXISTING RECYCLED WATER
- Ex S — EXISTING SEWER
- Ex H — EXISTING HOUSE DRAIN
- Ex SW — EXISTING SWALE DRAIN
- Z — ZERO LOT LINES
- P — PAVEMENT TREATMENT
- D — DIRECTION OF FALL
- O — OVERLAND FLOW
- A — ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- C — CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- L — LIMIT OF WORKS
- X — EXISTING TREE TO BE REMOVED
- R — RIDGE LINE
- W — RETAINING WALL
- TPZ — TREE PROTECTION ZONE (TPZ)
- P — TREE PLANTER BOX
- W — RETAINING WALL

HATCH LEGEND

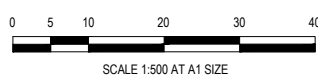
- P — PAVEMENT TREATMENT
- S — STRUCTURAL FILL > 200mm DEEP
- EX — EX. STRUCTURAL FILL > 200mm DEEP
- L — LOT HATCHING
- R — ROAD PAVEMENT
- F — FOOTPATH
- D — DRIVEWAY
- I — INDUSTRIAL STRENGTH DRV / LANEWAYS
- N — NATURE STRIP
- RES — RESERVES
- EK — ELECTRICAL KIOSK
- DR — DRAINAGE RESERVE
- MD — MEDIAN DENSITY LOTS
- MA — MAINTENANCE ACCESS TRACK
- DO — DRY OUT AREA
- EV — EXISTING VEGETATION TO REMAIN
- ER — EXISTING VEGETATION TO BE REMOVED

WARNING
BWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
BEFORE YOU DIG
 www.byda.com.au

WARNING!
 OVERHEAD ELECTRICITY LINES IN VICINITY. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS 18.07.2025
 Date: 18.07.2025
 Drawn: L.SUTHERLAND
 Checked: C.DAWSON 18.07.2025
 Date: 18.07.2025
 Approved: C.DAWSON P50036272
 Reg. No. 18.07.2025
 Date: 18.07.2025
 PS Number: PSS931747A

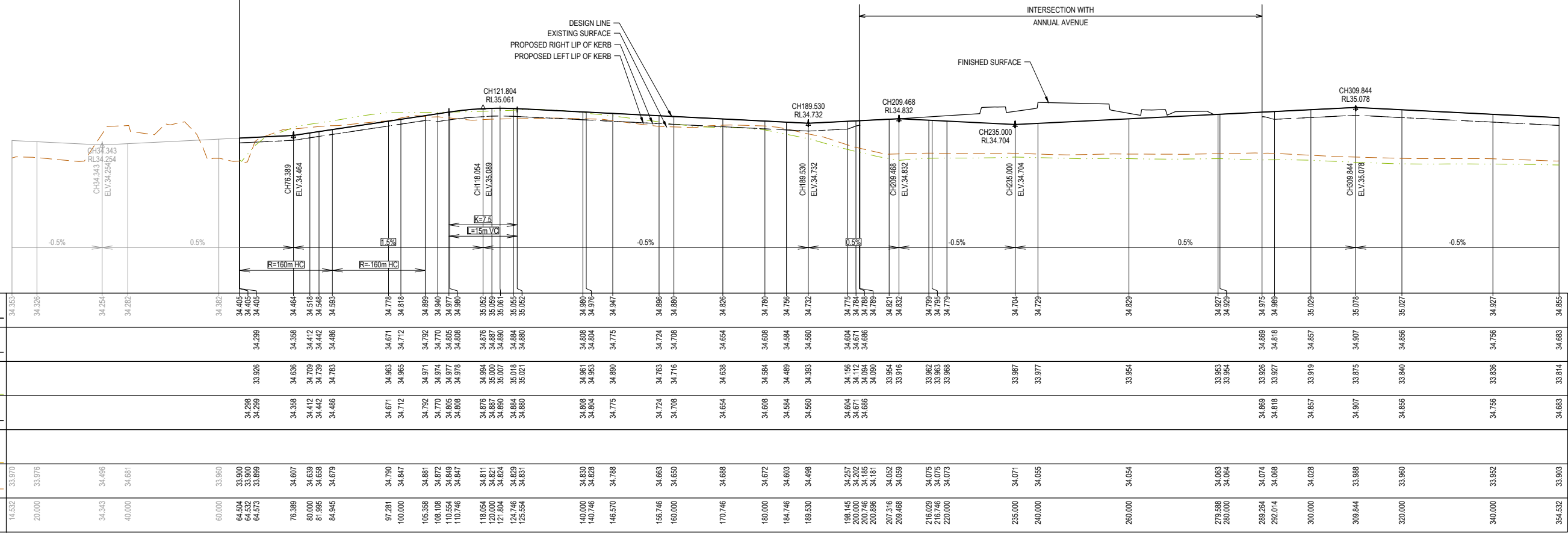
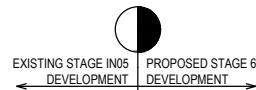
BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project: MAPLE GROVE ESTATE
 Stage: STAGE 06
 Client: CARDINIA SHIRE COUNCIL
 Drawing Title: RETAINING WALL PLAN

Sheet 08 of 29
 Scale: 1:500 @ A1
 Project Ref: 1701814
 Stage No: 06
 Drawing No: 030
 Rev: P2

Q:\me\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham\Eng\Stage 6\Drawings\1701814-06-030-RTW.dwg

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



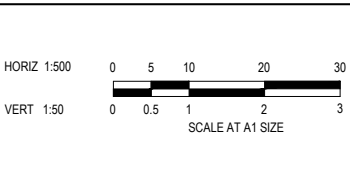
DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	CHAINAGE
34.533					33.970	14.532
34.326					33.976	20.000
34.254					34.496	34.943
34.282					34.681	40.000
34.382					33.960	60.000
34.405	34.289	33.926	34.288		33.900	64.594
34.405			34.288		33.889	64.573
34.464	34.358	34.636	34.358		34.607	76.389
34.518	34.412	34.709	34.412		34.638	80.000
34.548	34.442	34.739	34.442		34.658	81.955
34.593	34.486	34.783	34.486		34.679	84.945
34.778	34.671	34.963	34.671		34.790	97.281
34.818	34.712	34.965	34.712		34.847	100.000
34.899	34.792	34.971	34.792		34.881	105.359
34.940	34.770	34.974	34.770		34.872	108.108
34.977	34.805	34.977	34.805		34.849	110.554
34.980	34.808	34.978	34.808		34.847	110.746
35.052	34.876	34.994	34.876		34.811	118.054
35.059	34.887	35.000	34.887		34.821	120.000
35.061	34.890	35.007	34.890		34.824	121.804
35.055	34.884	35.018	34.884		34.829	124.746
35.052	34.880	35.021	34.880		34.831	125.554
34.980	34.808	34.961	34.808		34.830	140.000
34.976	34.804	34.953	34.804		34.828	140.746
34.947	34.775	34.890	34.775		34.788	146.570
34.896	34.724	34.763	34.724		34.663	156.746
34.880	34.708	34.716	34.708		34.650	160.000
34.826	34.654	34.638	34.654		34.688	170.746
34.780	34.608	34.584	34.608		34.672	180.000
34.756	34.584	34.489	34.584		34.603	184.746
34.732	34.560	34.393	34.560		34.498	189.530
34.775	34.604	34.196	34.604		34.257	186.145
34.784	34.671	34.132	34.671		34.202	200.000
34.788	34.686	34.099	34.686		34.181	200.688
34.821	34.632	33.954	34.632		34.052	207.316
34.832	34.621	33.916	34.621		34.059	209.468
34.799	34.799	33.962	34.799		34.075	216.029
34.795	34.795	33.963	34.795		34.075	216.746
34.779	34.779	33.966	34.779		34.073	220.000
34.704	34.704	33.987	34.704		34.071	235.000
34.729	34.729	33.977	34.729		34.055	240.000
34.829	34.829	33.954	34.829		34.054	260.000
34.927	34.927	33.953	34.927		34.063	279.588
34.929	34.929	33.954	34.929		34.064	280.000
34.975	34.975	33.926	34.975		34.074	289.264
34.983	34.983	33.927	34.983		34.068	292.014
35.029	35.029	33.919	35.029		34.028	300.000
35.078	35.078	33.875	35.078		33.988	309.844
35.027	35.027	33.840	35.027		33.960	320.000
34.927	34.927	33.836	34.927		33.952	340.000
34.855	34.855	33.814	34.855		33.903	354.532

CANTY BOULEVARD LONGITUDINAL SECTION

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					

© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted



Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No: PS000672
Date: 18.07.2025
PS Number: PS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

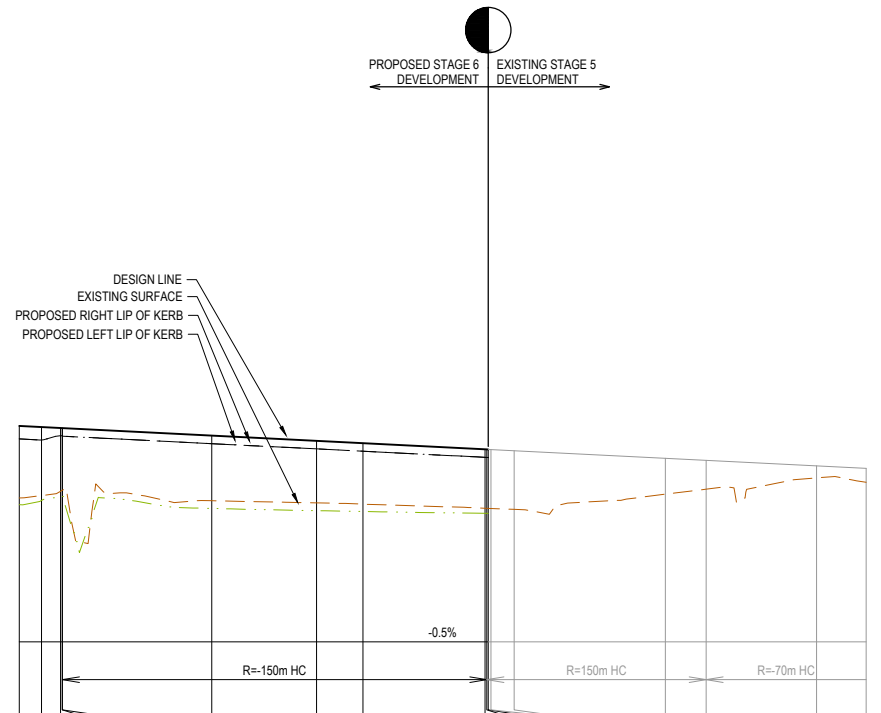
Project Details: MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title: ROAD LONGITUDINAL SECTIONS
CANTY BOULEVARD
(SHEET 1 OF 2)

Sheet	09 of 29
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	06
Drawing No	100
Rev	P2

Q:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham_Eng\Stage 6\Drawings\1701814-06-100-RLS.dwg

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



K Value

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 31

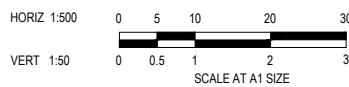
DESIGN CENTRELINE	34.655	34.640	34.627	34.626	34.727	34.658	34.627	34.547	34.464	34.454	34.427	34.400	34.327	34.295			
RIGHT LIP OF KERB	34.683	34.669	34.689	34.725	34.720	34.621	34.551	34.521	34.440	34.439	34.427	34.400	34.327	34.295			
EXISTING SURFACE AT RIGHT BOUNDARY	33.814	33.870	33.921	33.925	33.925	33.764	33.735	33.723	33.699	33.699	33.699	33.699	33.699	33.699			
LEFT LIP OF KERB	34.683	34.669	34.725	34.720	34.621	34.551	34.521	34.440	34.439	34.427	34.400	34.327	34.295	34.295			
EXISTING SURFACE AT LEFT BOUNDARY	33.903	33.934	33.990	34.003	34.004	33.866	33.837	33.821	33.796	33.795	33.795	33.795	33.752	33.752			
EXISTING SURFACE	33.903	33.934	33.990	34.003	34.004	33.866	33.837	33.821	33.796	33.795	33.795	33.795	33.752	33.752			
CHAINAGE	354.632	357.489	360.000	360.221	360.239	380.000	393.860	400.000	416.169	416.692	416.692	418.029	420.000	440.000	445.398	460.000	466.070
	TP		TP														

CANTY BOULEVARD LONGITUDINAL SECTION

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



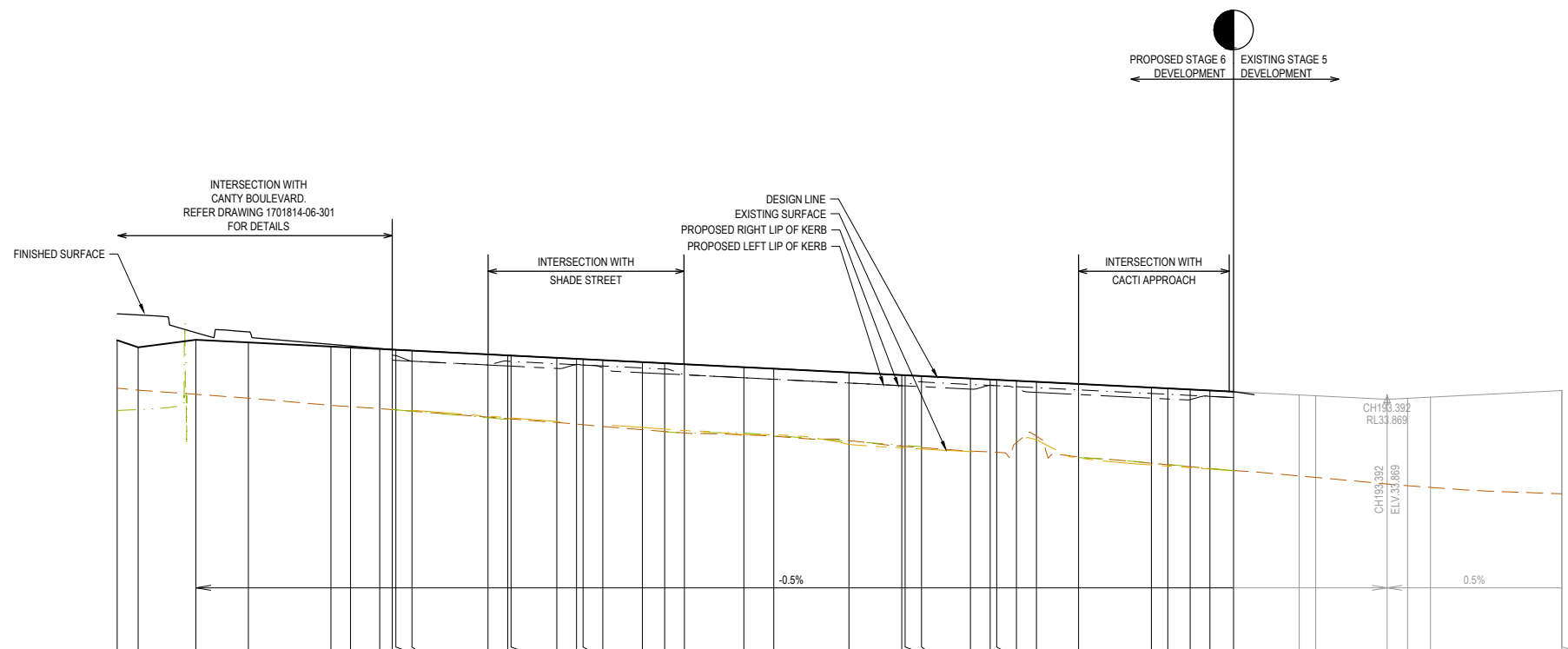
Designed	N.SMOLENAARS
Date	18.07.2025
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	18.07.2025
Approved	C.DAWSON
Reg. No.	PS0006272
Date	18.07.2025
PS Number	PSS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details	MAPLE GROVE ESTATE STAGE 06 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD LONGITUDINAL SECTIONS CANTY BOULEVARD (SHEET 2 OF 2)

Sheet	10 of 29
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	06
Drawing No	101
Rev	P2

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



K Value

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

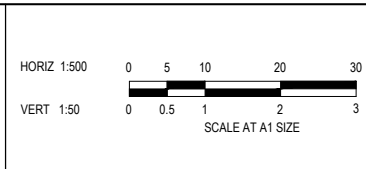
DATUM RL 30

DESIGN CENTRELINE	34.786	34.673	34.658	34.636	34.627	34.624	34.612	34.554	34.539	34.536	34.501	34.485	34.481	34.466	34.406	34.389	34.386	34.279	34.258	34.256	34.224	34.186	34.171	34.166	34.151	34.136	34.104	34.048	34.036	34.019	34.004	33.986	33.936	33.923	33.869	33.865	33.902	34.002	34.002						
RIGHT LIP OF KERB				34.465	34.452	34.450		34.393	34.449	34.446	34.411	34.396	34.391	34.376	34.346	34.329	34.243	34.197	34.174	34.117	34.077	34.085	34.139	34.056	34.081	34.076	34.061	34.046	34.014	33.958	33.946	33.929	33.914	33.896											
EXISTING SURFACE AT RIGHT BOUNDARY				33.715	33.710	33.689		33.688	34.392	34.374	34.340	34.308	34.301	34.349	34.442	34.258	34.243	34.197	34.174	34.117	34.077	34.074	34.062	34.025	34.083	34.076	34.034	33.974	33.942	33.887	33.874	33.864	33.814	33.886											
LEFT LIP OF KERB				34.537	34.535	34.450		34.392	34.377	34.340	34.308	34.301	34.349	34.442	34.258	34.243	34.197	34.174	34.117	34.077	34.074	34.062	34.025	34.083	34.076	34.034	33.974	33.942	33.887	33.874	33.864	33.814	33.886												
EXISTING SURFACE AT LEFT BOUNDARY				33.727				33.613	33.590	33.586	33.532	33.493	33.483	33.457	33.442	33.334	33.332	33.181	33.130	33.127	33.113	33.074	33.082	33.088	33.063	33.209	33.253	32.977	32.870	32.874	32.853	32.829	32.808	32.783											
EXISTING SURFACE	34.010	33.945	33.887	33.778	33.727	33.708	33.689	33.598	33.575	33.571	33.517	33.493	33.483	33.457	33.407	33.381	33.357	33.332	33.309	33.241	33.157	33.153	33.135	33.082	33.088	33.063	33.209	33.310	32.991	32.874	32.842	32.815	32.786												
CHAINAGE	0.000	3.200	12.000	20.000	32.554	35.554	37.557	40.000	41.866	42.437	44.896	56.465	59.465	60.000	66.654	69.654	70.654	73.654	80.000	83.385	86.385	95.457	100.000	111.457	119.500	120.000	122.500	129.946	132.946	133.946	136.946	140.000	146.409	157.514	160.000	163.414	166.414	170.014	180.000	182.514	193.392	196.514	200.000	220.000	220.014

ANNUAL AVENUE LONGITUDINAL SECTION

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No: P50006792
Date: 18.07.2025
PS Number: PSS931747A

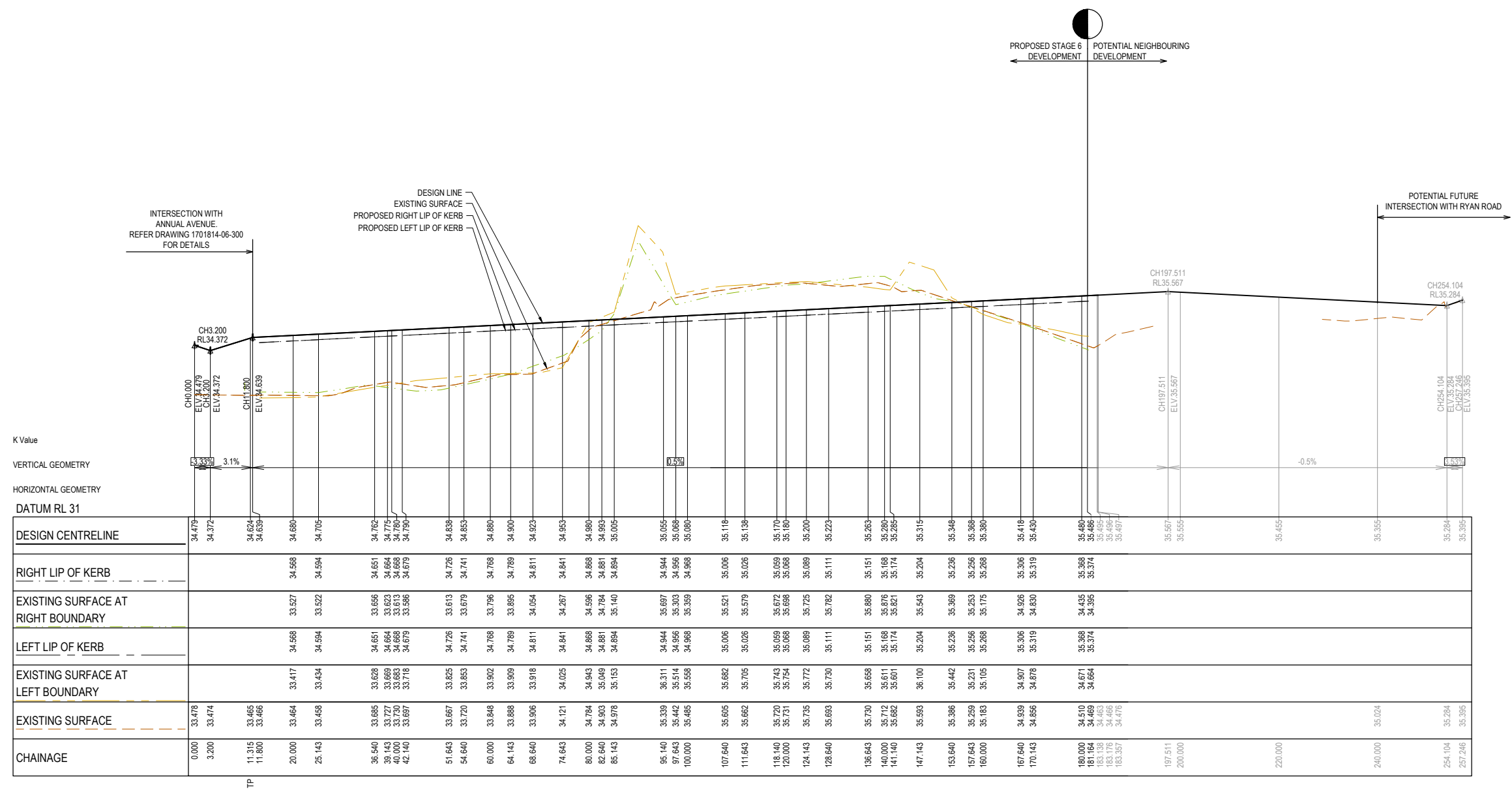
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details: MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title: ROAD LONGITUDINAL SECTIONS
ANNUAL AVENUE

Sheet	11 of 29
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	06
Drawing No	102
Rev	P2

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

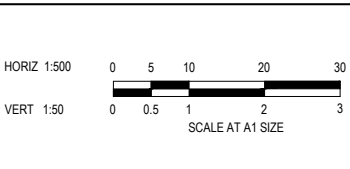


SHADE STREET LONGITUDINAL SECTION

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					

--	--	--	--	--	--	--	--	--	--



Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No: P8008672
Date: 18.07.2025
PS Number: PSS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details: MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

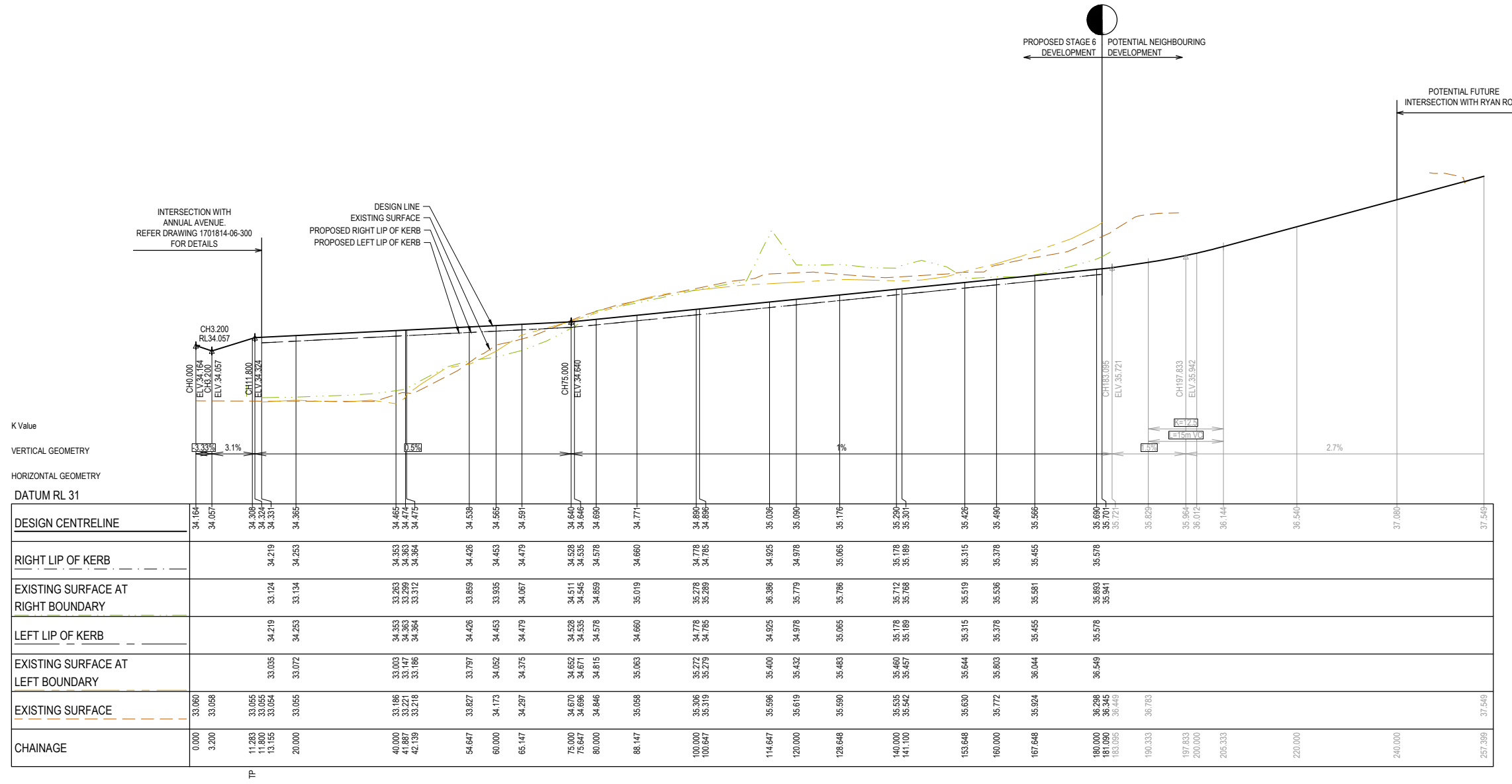
Drawing Title: ROAD LONGITUDINAL SECTIONS
SHADE STREET

Sheet 12 of 29
Scale: 1:500 H 1:50 V @ A1

Project Ref: 1701814
Stage No: 06
Drawing No: 103
Rev: P2

Q:\m\jobs\Jobs Data\1701814 - 10 Carly Lane, Pakenham, Eng\Stage 6\Drawings\1701814-06-100-RLS.dwg

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

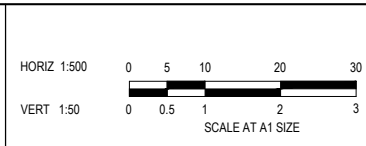


	0.000	3.000	11.883	11.800	13.155	20.000	40.000	41.887	42.139	54.647	60.000	65.147	75.000	75.647	80.000	88.147	100.000	100.647	114.647	120.000	128.648	140.000	141.100	153.648	160.000	167.648	180.000	181.000	183.055	190.333	197.833	200.000	205.333	220.000	240.000	257.899	271.549		
DESIGN CENTRELINE	34.164	34.057	34.208	34.324	34.331	34.365	34.465	34.474	34.475	34.538	34.565	34.591	34.640	34.646	34.690	34.771	34.894	34.896	35.036	35.090	35.176	35.290	35.301	35.426	35.490	35.566	35.690	35.701	35.721	35.829	35.964	36.012	36.144	36.540	37.080	37.549			
RIGHT LIP OF KERB			34.219	34.253			34.353	34.363	34.364	34.426	34.453	34.479	34.528	34.535	34.578	34.660	34.778	34.785	34.925	34.978	35.065	35.178	35.189	35.315	35.378	35.455	35.578	35.583	35.604										
EXISTING SURFACE AT RIGHT BOUNDARY			33.124	33.134			33.263	33.299	33.312	33.859	33.935	34.067	34.511	34.545	34.859	35.019	35.278	35.289	36.386	35.779	35.786	35.712	35.786	35.519	35.536	35.581	35.893	35.941											
LEFT LIP OF KERB			34.219	34.253			34.353	34.363	34.364	34.426	34.453	34.479	34.528	34.535	34.578	34.660	34.778	34.785	34.925	34.978	35.065	35.178	35.189	35.315	35.378	35.455	35.578	35.583	35.604										
EXISTING SURFACE AT LEFT BOUNDARY			33.035	33.072			33.003	33.147	33.186	33.797	34.052	34.375	34.652	34.671	34.815	35.063	35.272	35.279	36.400	35.432	35.483	35.460	35.467	35.644	35.803	36.044	36.549	36.345											
EXISTING SURFACE	33.060	33.058	33.055	33.054	33.055	33.055	33.186	33.221	33.218	33.827	34.173	34.297	34.670	34.696	34.846	35.058	35.306	35.319	35.596	35.619	35.690	35.635	35.542	35.630	35.772	35.924	36.298	36.345	36.449	36.783									
CHAINAGE	0.000	3.000	11.883	11.800	13.155	20.000	40.000	41.887	42.139	54.647	60.000	65.147	75.000	75.647	80.000	88.147	100.000	100.647	114.647	120.000	128.648	140.000	141.100	153.648	160.000	167.648	180.000	181.000	183.055	190.333	197.833	200.000	205.333	220.000	240.000	257.899	271.549		

CACTI APPROACH LONGITUDINAL SECTION

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No.: P5898672
Date: 18.07.2025
PS Number: PSS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details: MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title: ROAD LONGITUDINAL SECTIONS
CACTI APPROACH

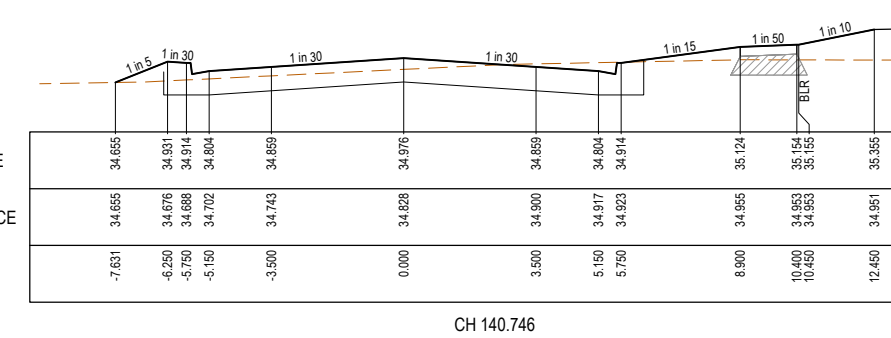
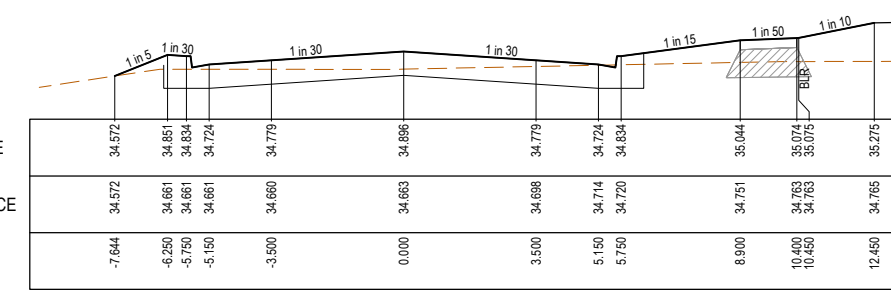
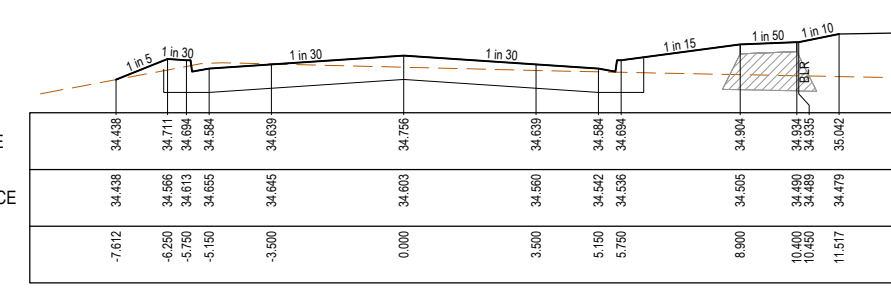
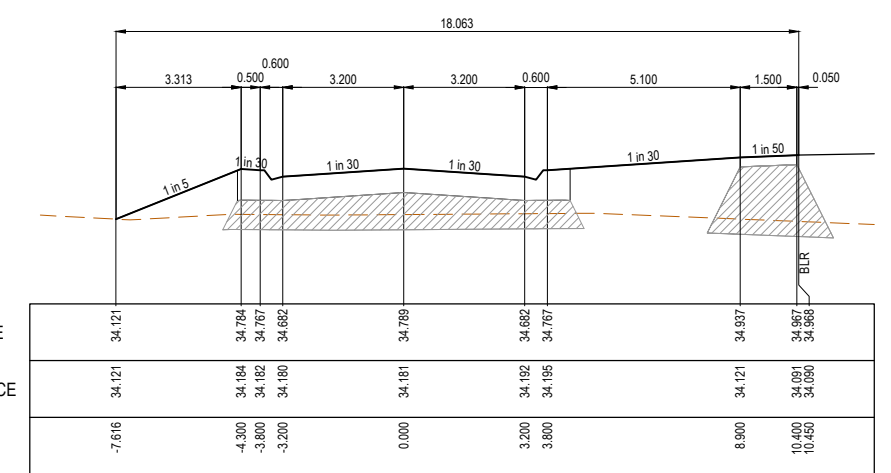
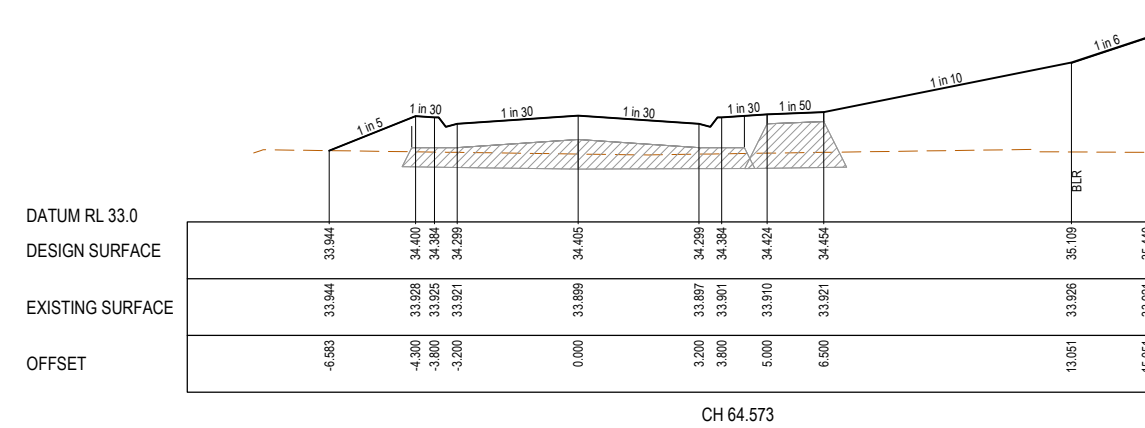
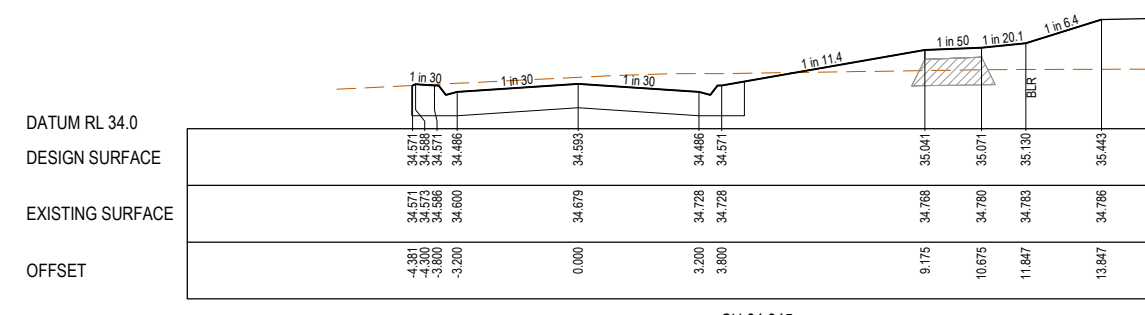
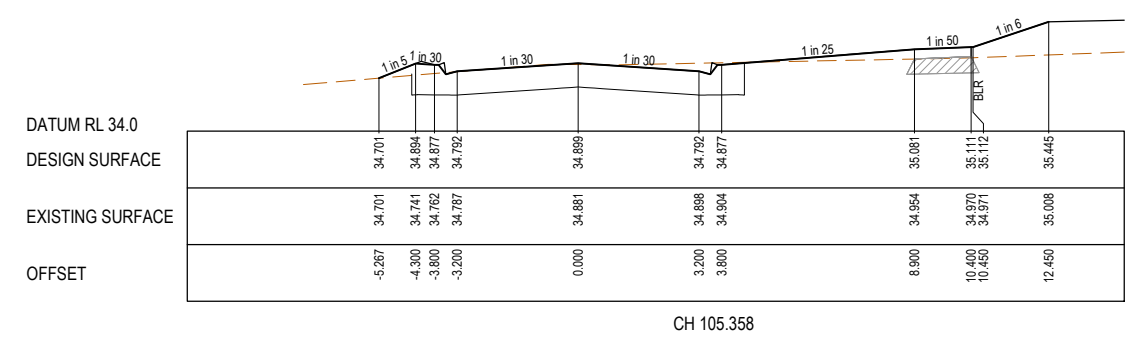
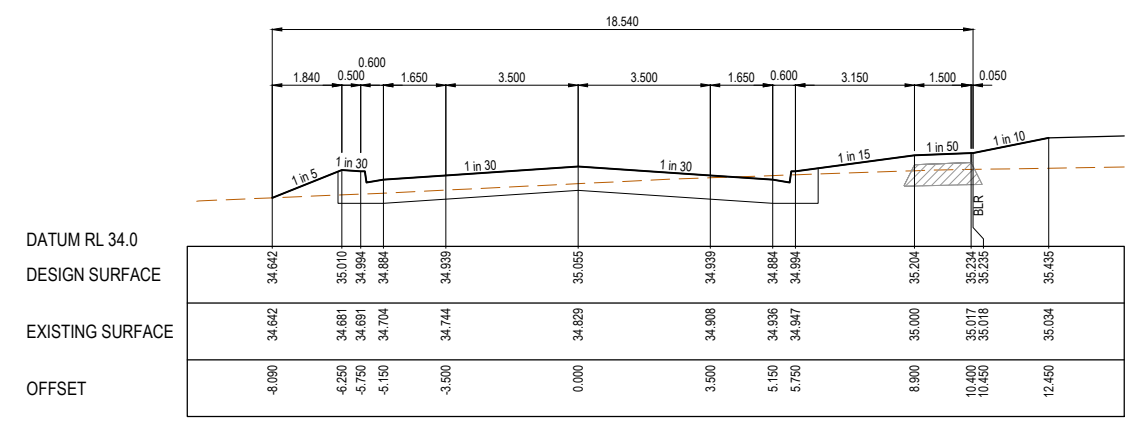
Sheet 13 of 29
Scale: 1:500 H 1:50 V @ A1

Project Ref: 1701814
Stage No: 06
Drawing No: 104
Rev: P2

Q:\m\jobs\Jobs Data\1701814 - 10 Carly Lane, Pakenham_Eng\Stage 6\Drawings\1701814-06-100-RLS.dwg

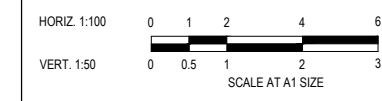
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No.: PS0008272
Date: 18.07.2025
PS Number: PS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

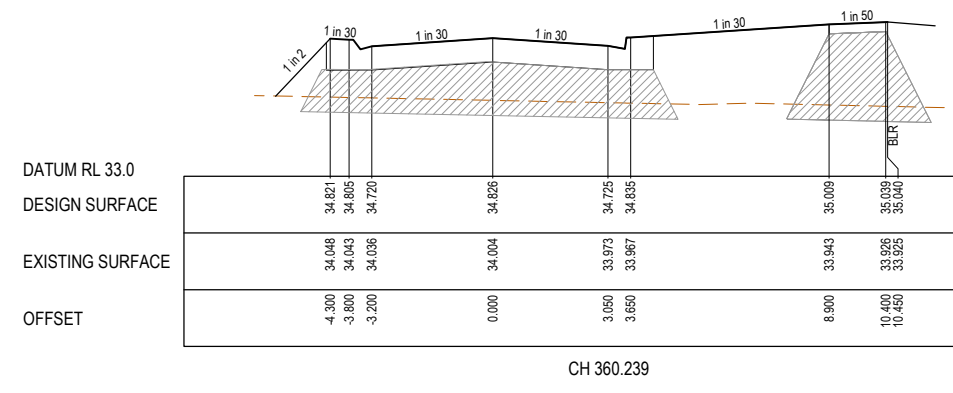
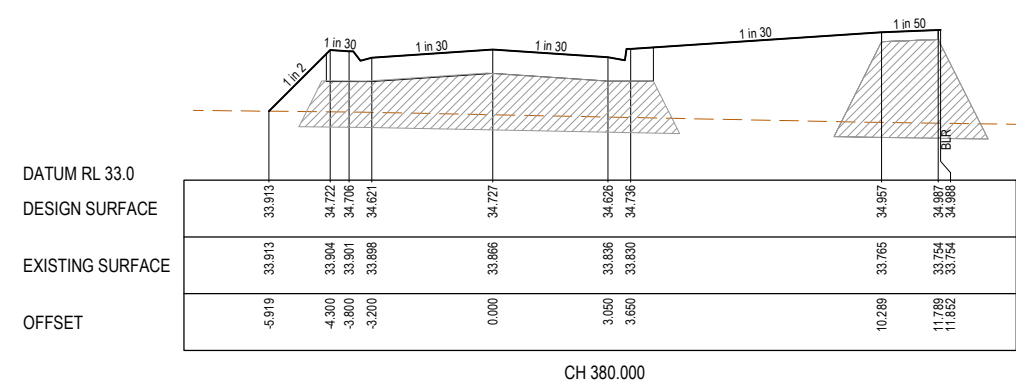
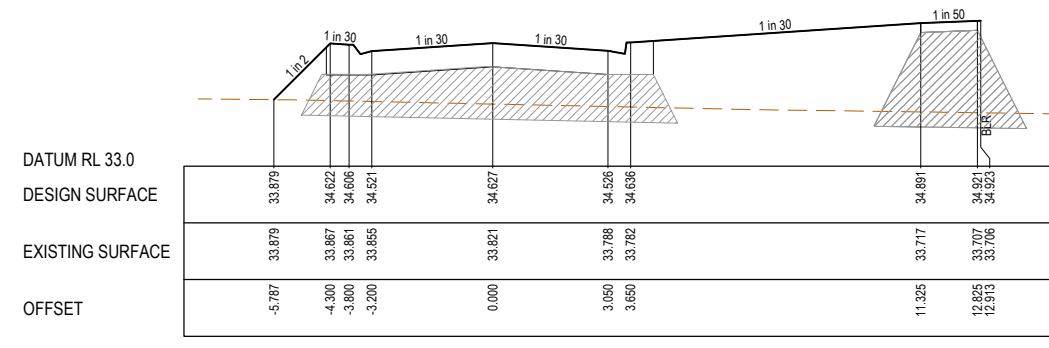
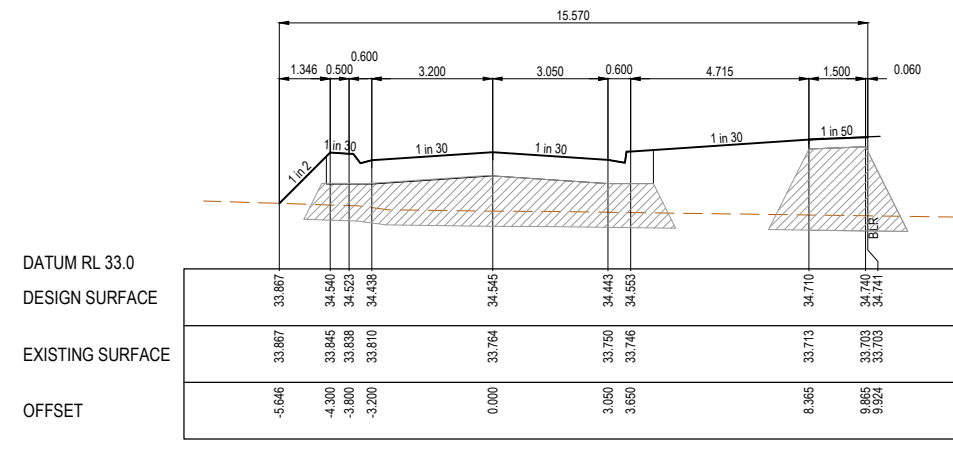
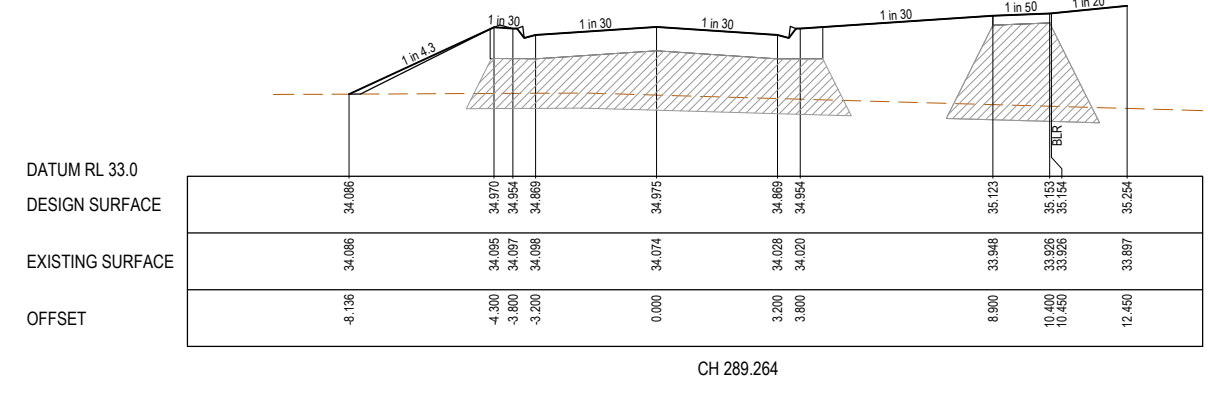
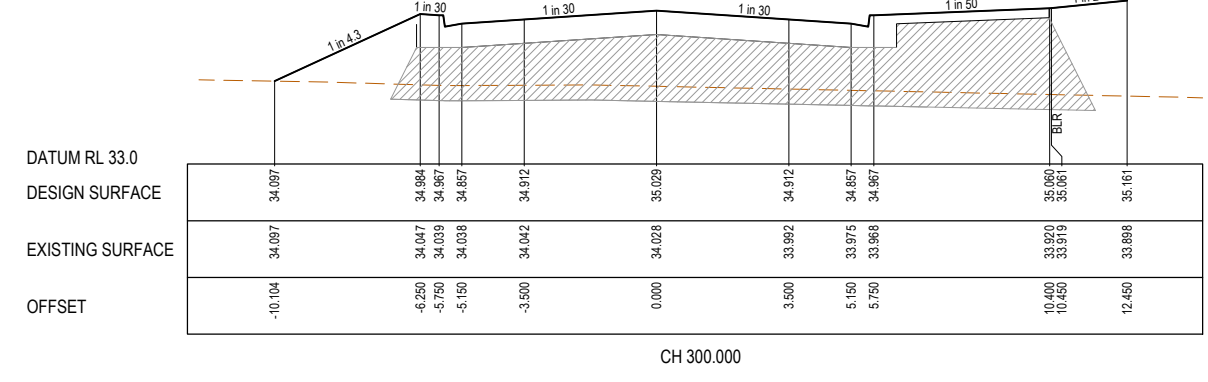
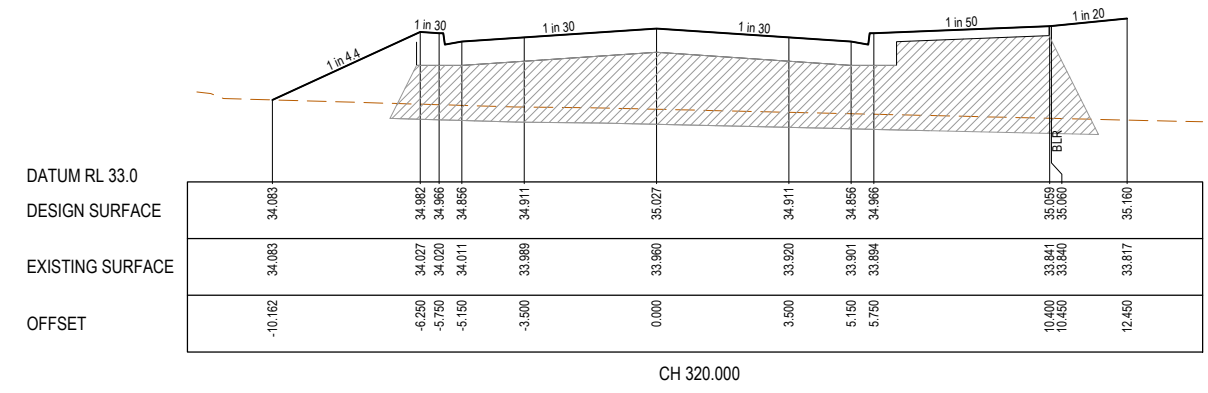
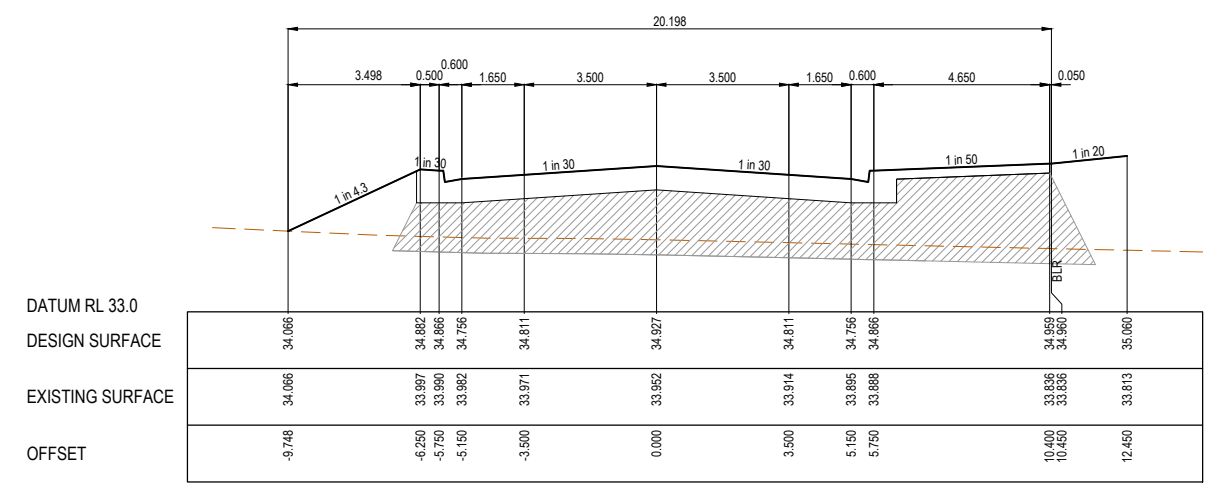
Drawing Title
ROAD CROSS SECTIONS
CANTY BOULEVARD
(SHEET 1 OF 2)

Sheet	14 of 29
Scale	1:100 H 1:50 V @ A1
Project Ref	1701814
Stage No	06
Drawing No	200
Rev	P2

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

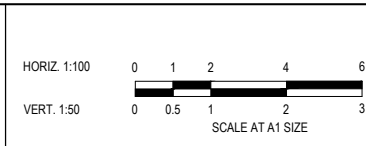
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- STRUCTURAL FILL



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted										
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD						
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD						
REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP	



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PS0006272
Date 18.07.2025
PS Number PS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

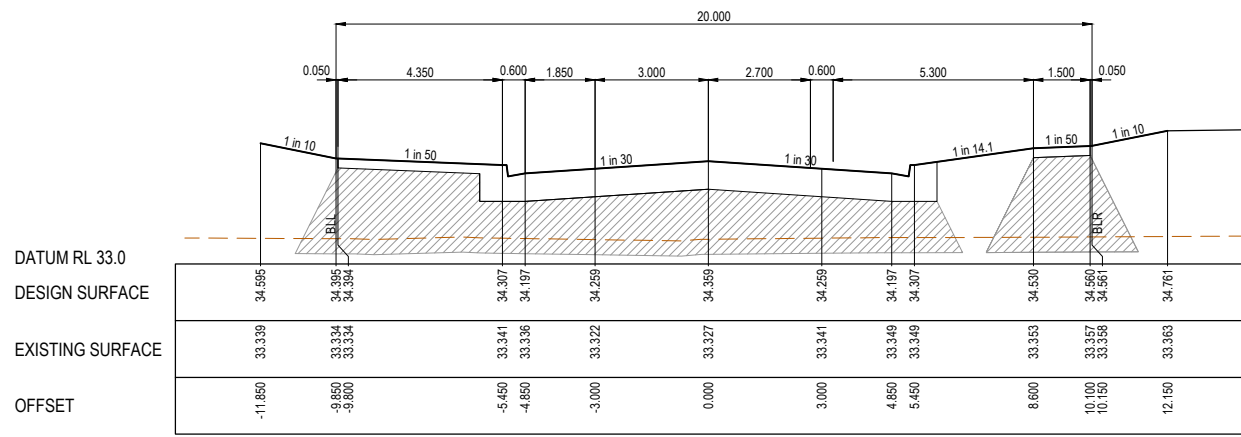
Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
CANTY BOULEVARD
(SHEET 2 OF 2)

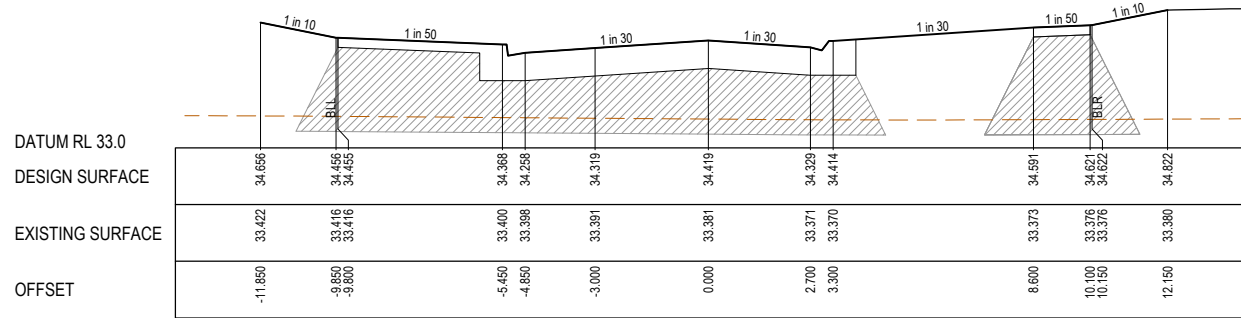
Sheet	15 of 29
Scale	1:100 H 1:50 V @ A1
Project Ref	1701814
Stage No	06
Drawing No	201
Rev	P2

	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL

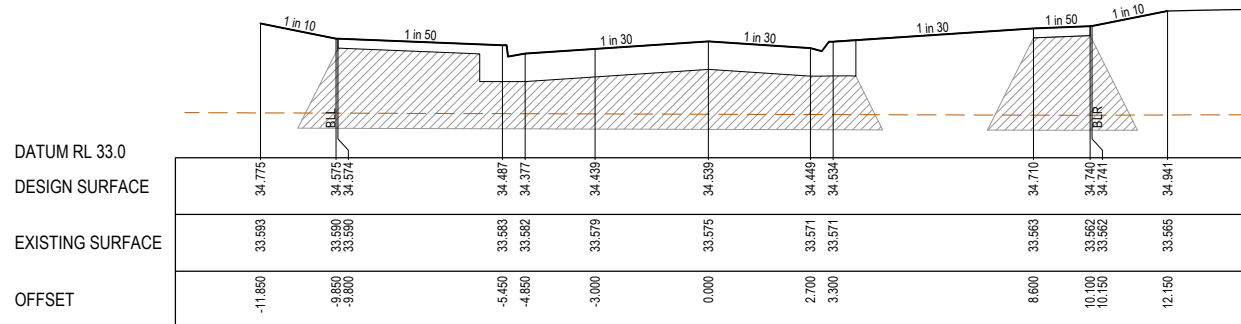
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION



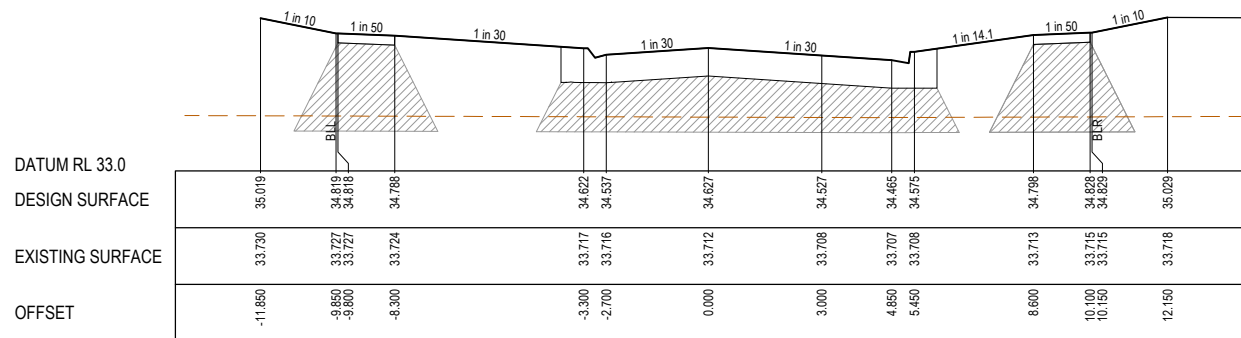
CH 95.457



CH 83.385



CH 59.485



CH 41.896

DATUM RL 32.0	34.285	34.684	33.897	33.887	33.948	34.048	33.958	34.043	34.220	34.250	34.251
DESIGN SURFACE	34.285	34.684	33.897	33.887	33.948	34.048	33.958	34.043	34.220	34.250	34.251
EXISTING SURFACE	32.873	32.870	32.877	32.879	32.886	32.887	32.907	32.909	32.906	32.901	32.901
OFFSET	-11.850	-9.850	-5.450	-4.850	-3.000	0.000	2.700	3.300	8.600	10.100	10.150

CH 157.514

DATUM RL 32.0	34.340	34.139	34.052	33.942	34.004	34.104	34.014	34.098	34.275	34.305	34.307
DESIGN SURFACE	34.340	34.139	34.052	33.942	34.004	34.104	34.014	34.098	34.275	34.305	34.307
EXISTING SURFACE	32.984	32.977	32.984	32.986	32.974	32.991	33.008	33.007	32.986	32.984	32.983
OFFSET	-11.850	-9.850	-5.450	-4.850	-3.000	0.000	2.700	3.300	8.600	10.100	10.150

CH 146.409

DATUM RL 32.0	34.460	34.259	34.172	34.062	34.124	34.224	34.139	34.249	34.395	34.425	34.426
DESIGN SURFACE	34.460	34.259	34.172	34.062	34.124	34.224	34.139	34.249	34.395	34.425	34.426
EXISTING SURFACE	33.110	33.113	33.137	33.134	33.132	33.135	33.137	33.138	33.146	33.148	33.149
OFFSET	-11.850	-9.850	-5.450	-4.850	-3.000	0.000	2.550	3.150	8.600	10.100	10.150

CH 122.500

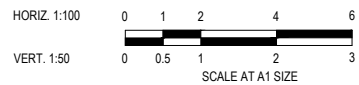
DATUM RL 32.0	34.515	34.314	34.227	34.117	34.179	34.279	34.179	34.227	34.450	34.480	34.481
DESIGN SURFACE	34.515	34.314	34.227	34.117	34.179	34.279	34.179	34.227	34.450	34.480	34.481
EXISTING SURFACE	33.195	33.180	33.218	33.223	33.241	33.241	33.229	33.221	33.227	33.230	33.230
OFFSET	-11.850	-9.850	-5.450	-4.850	-3.000	0.000	3.000	4.850	8.600	10.100	10.150

CH 111.457

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved
Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose.
No unauthorised copying is permitted

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PS898272
Date 18.07.2025
PS Number PS931747A




BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD CROSS SECTIONS
ANNUAL AVENUE
(SHEET 1 OF 2)

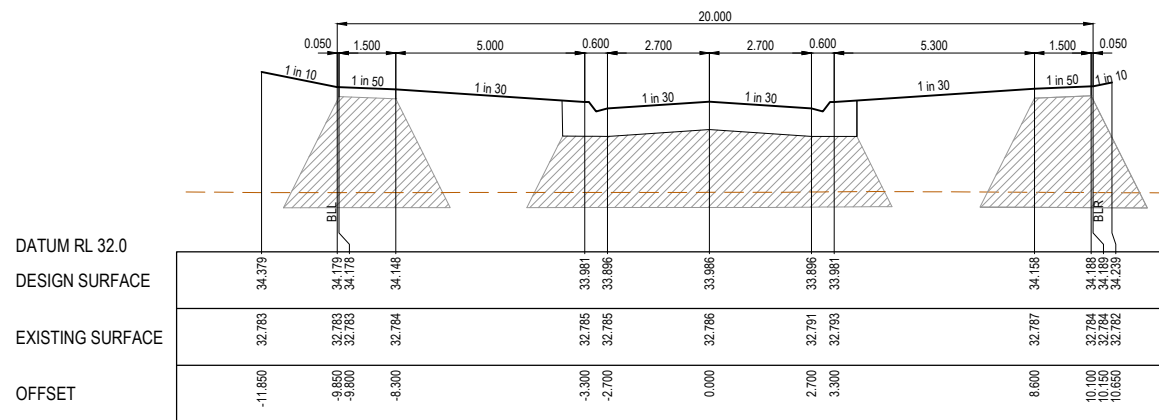
Sheet 16 of 29

Scale
1:100 H 1:50 V @ A1

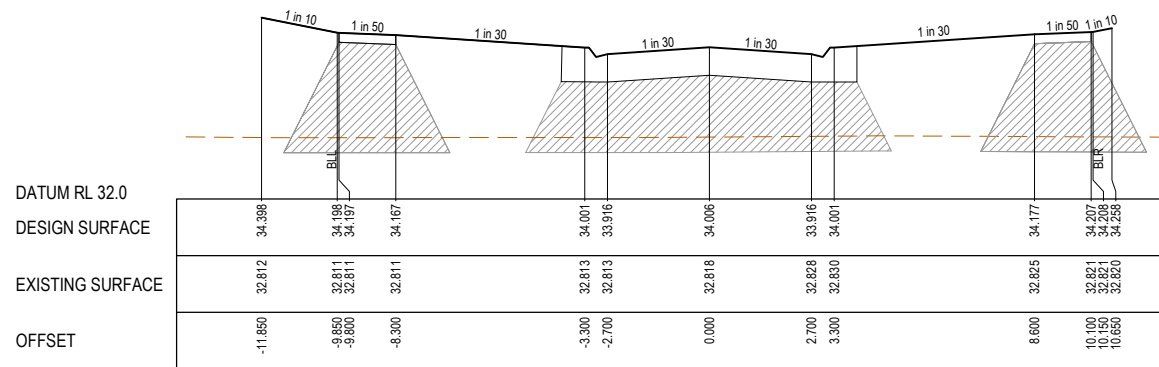
Project Ref	Stage No	Drawing No	Rev
1701814	06	202	P2

	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL

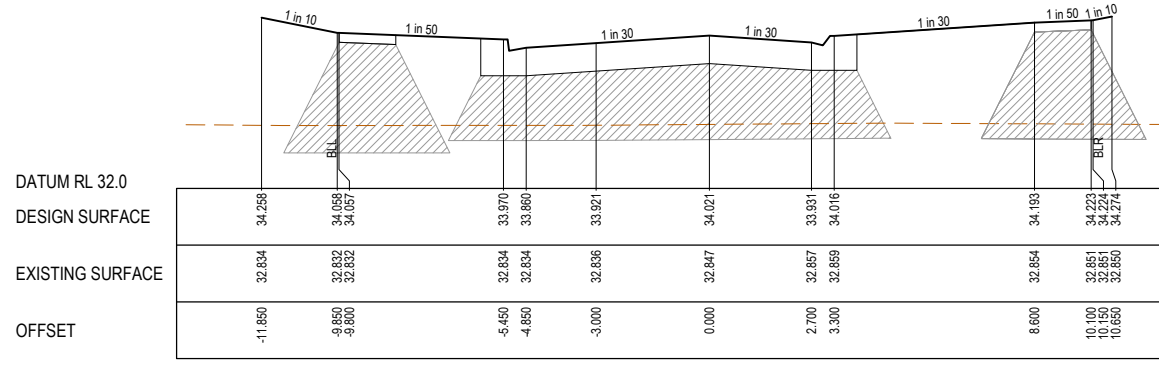
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION



CH 170.014



CH 166.064



CH 162.935

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted									
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PS000672
Date 18.07.2025
PS Number PSS31747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

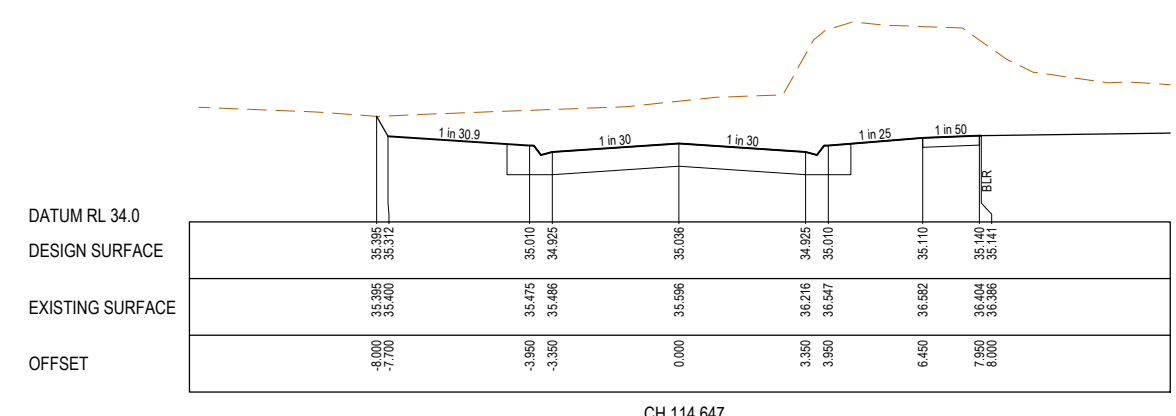
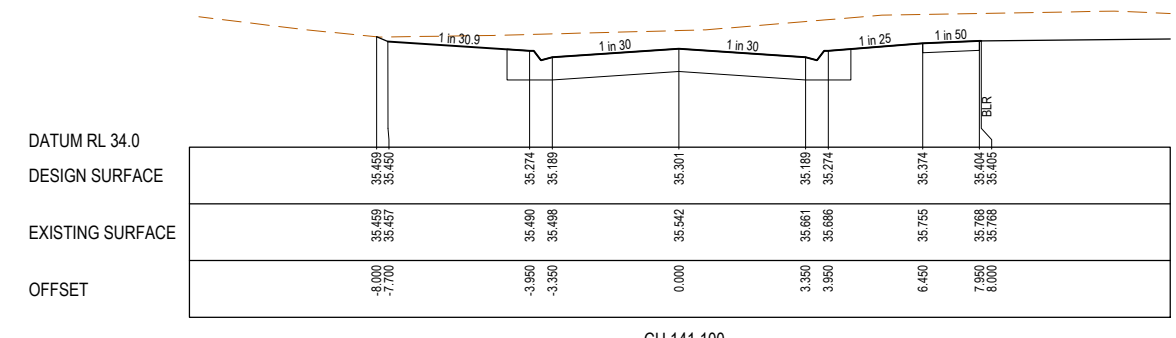
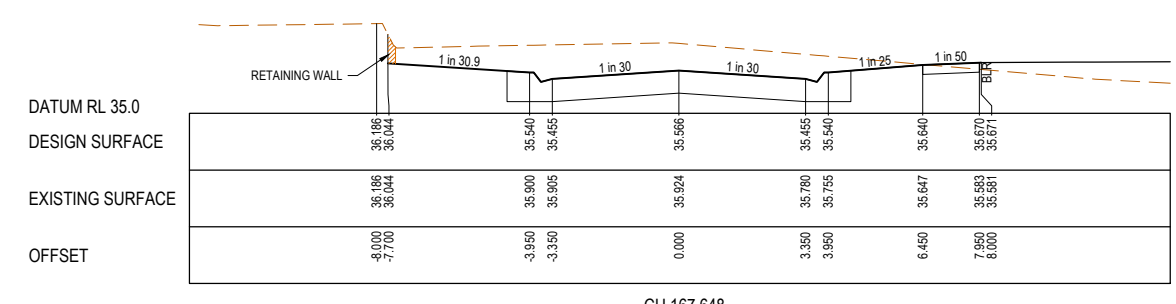
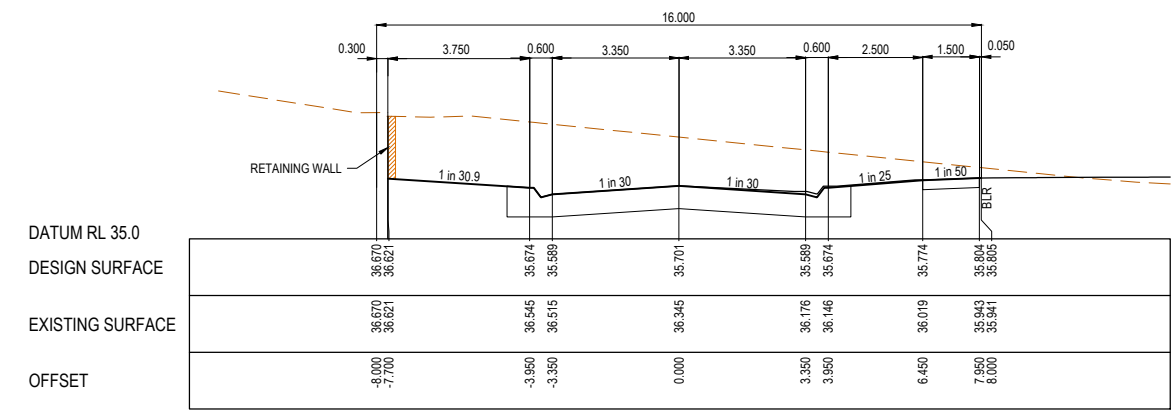
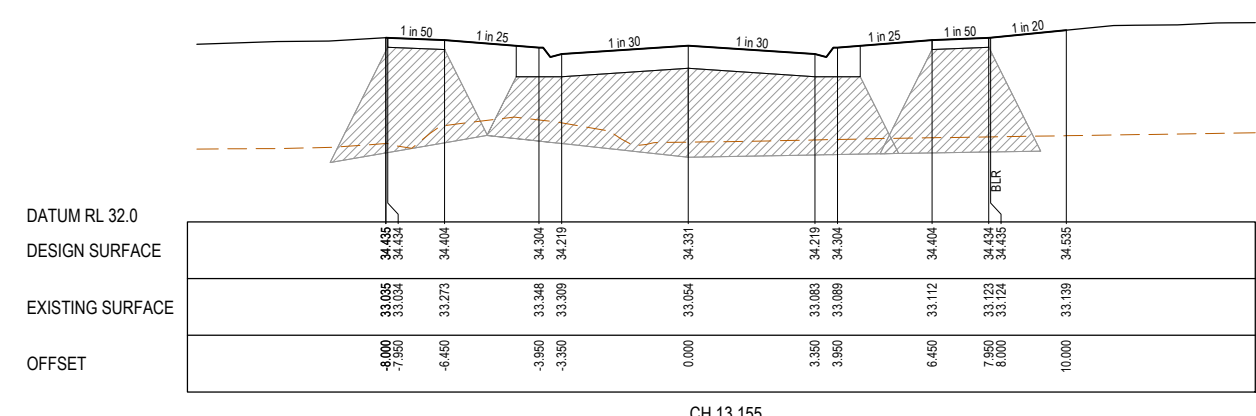
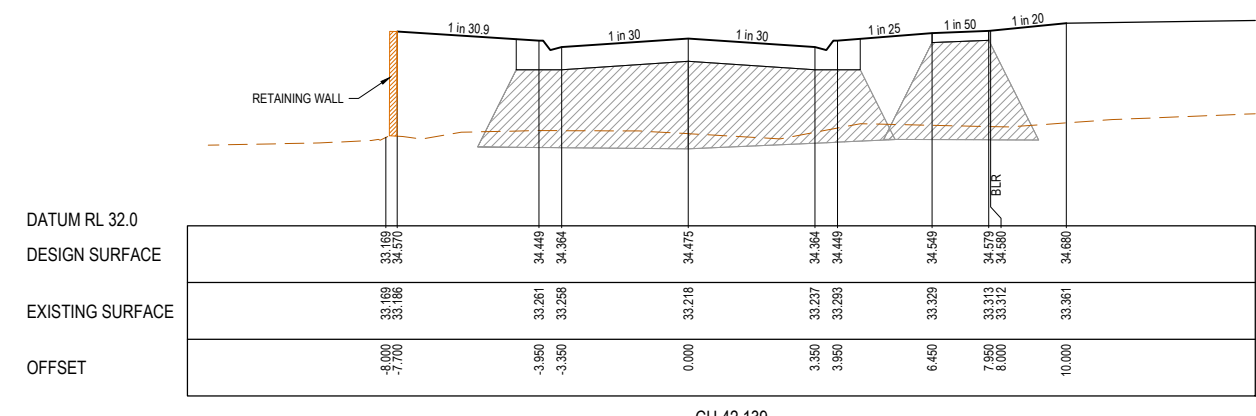
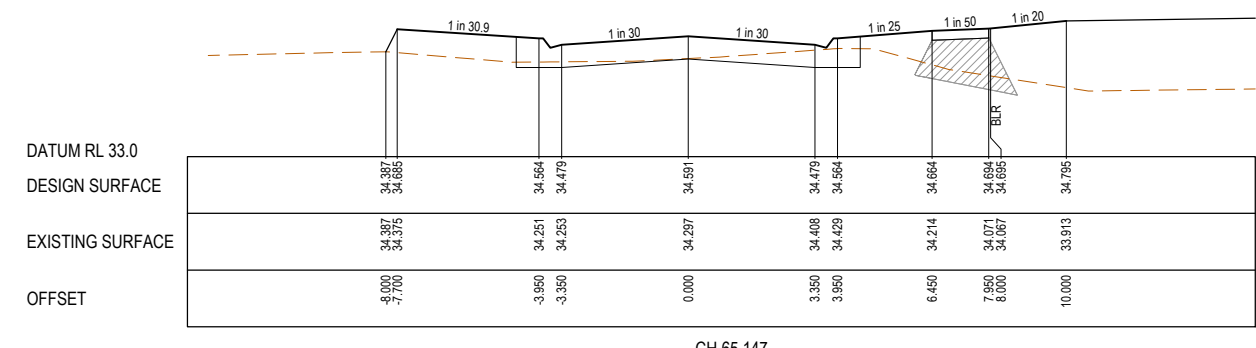
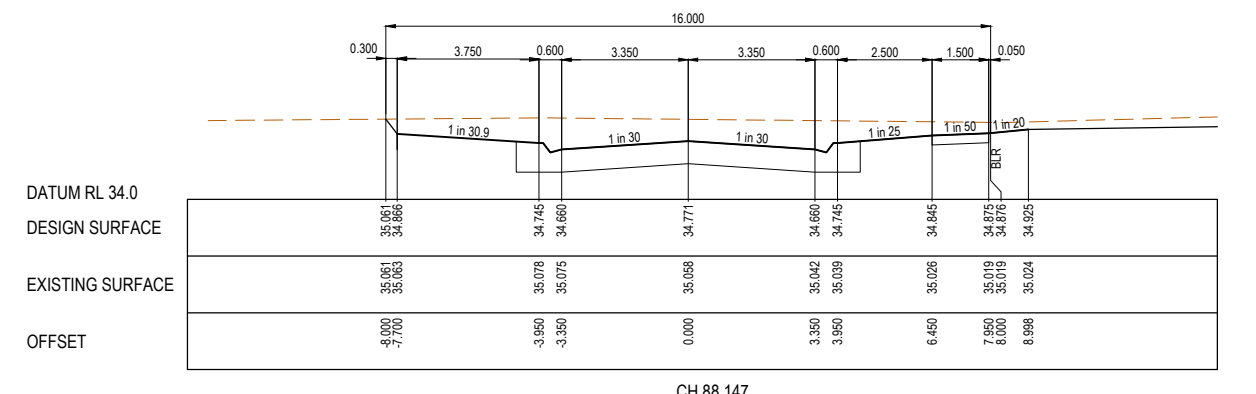
Drawing Title
ROAD CROSS SECTIONS
ANNUAL AVENUE
(SHEET 2 OF 2)

Sheet 17 of 29			
Scale 1:100 H 1:50 V @ A1			
Project Ref	Stage No	Drawing No	Rev
1701814	06	203	P2

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

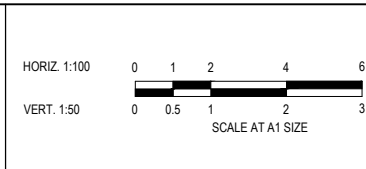
- EXISTING SURFACE
- DESIGN SURFACE
- STRUCTURAL FILL



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted				
REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD

REV	DESCRIPTION	DATE	DRN	APP



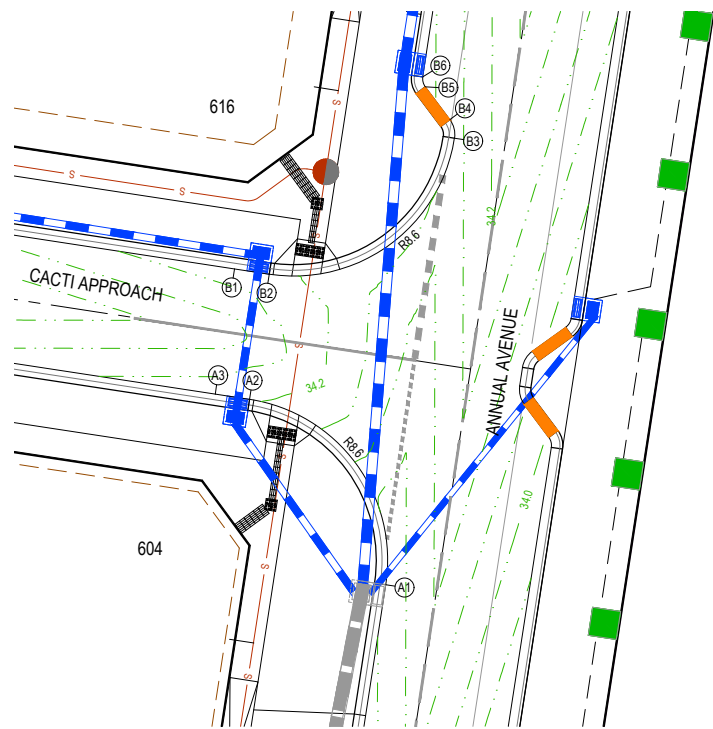
Designed: N.SMOLENAARS
Date: 18.07.2025
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 18.07.2025
Approved: C.DAWSON
Reg. No: P20008272
Date: 18.07.2025
PS Number: PSS931747A

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

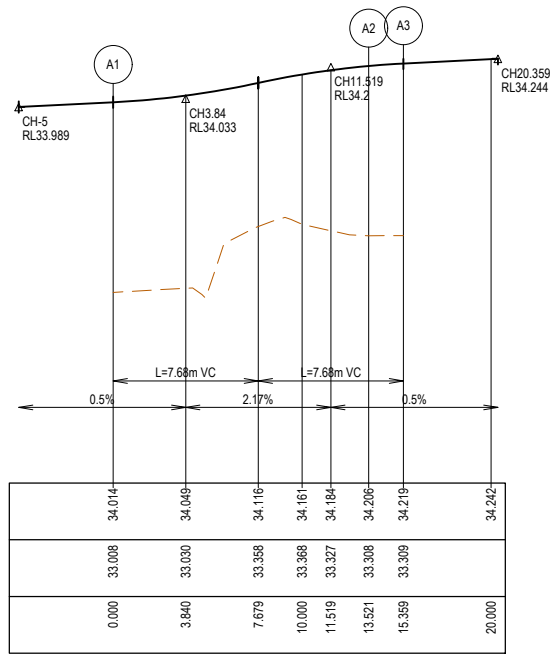
Project Details: MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title: ROAD CROSS SECTIONS
CACTI APPROACH

Sheet 19 of 29	
Scale 1:100 H 1:50 V @ A1	
Project Ref 1701814	Stage No 06
Drawing No 205	Rev P2



VERTICAL GEOMETRY
 DATUM RL 32
 DESIGN LEVEL
 EXISTING SURFACE
 CHAINAGE

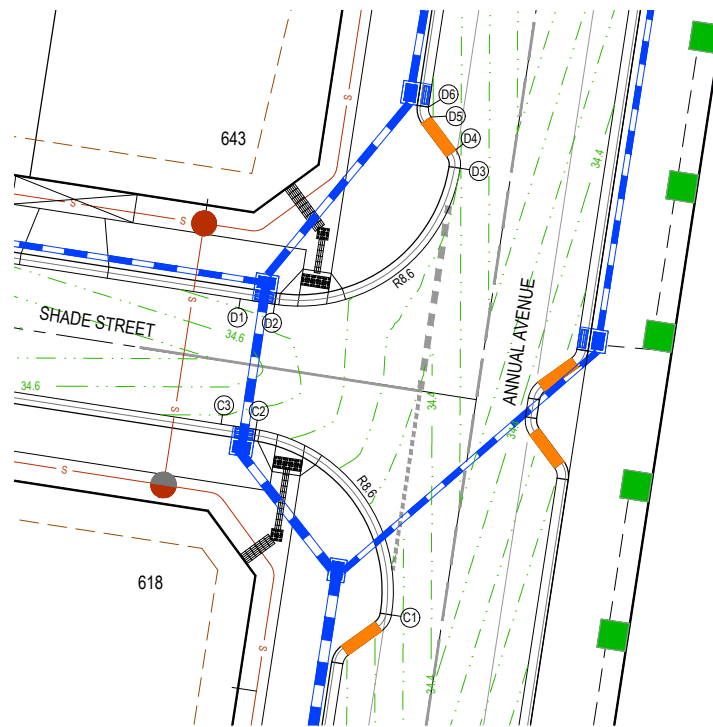


LIP LINE A

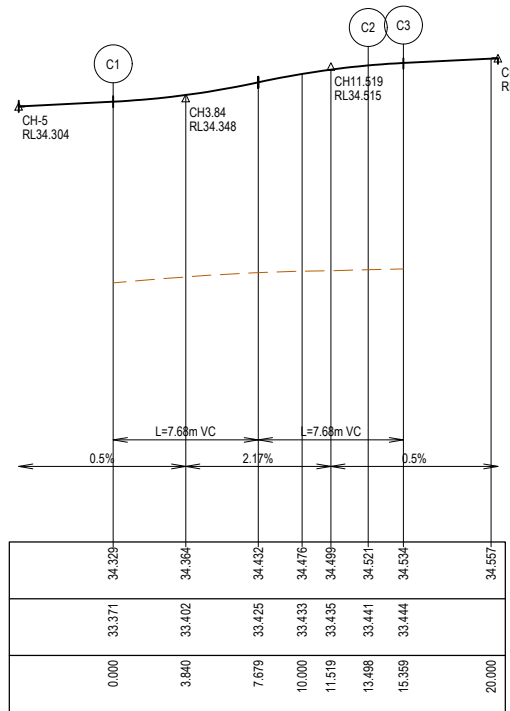
Alignment A

Point no	Easting	Northing	RL
A1	9961.661	4825.630	34.014
A2	9954.457	4835.440	34.206
A3	9952.640	4835.717	34.219

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.081	8.600	13.521	2.523	1.867	3.294	2.792	3.380	34.097



VERTICAL GEOMETRY
 DATUM RL 32
 DESIGN LEVEL
 EXISTING SURFACE
 CHAINAGE

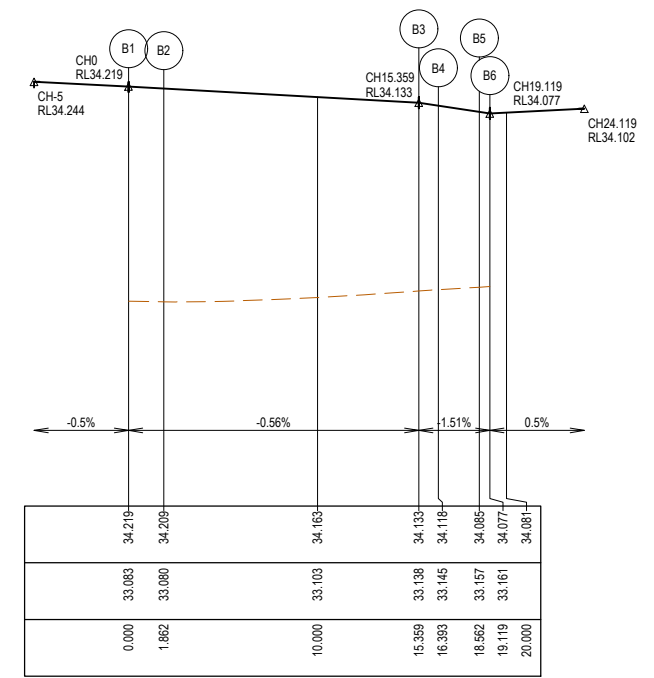


LIP LINE C

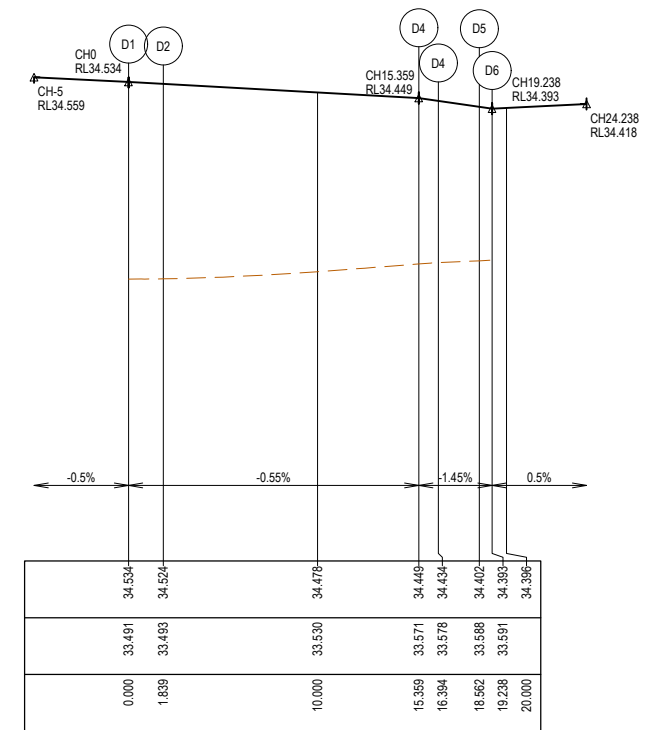
Alignment C

Point no	Easting	Northing	RL
C1	9971.246	4887.920	34.329
C2	9964.065	4897.726	34.521
C3	9962.226	4898.012	34.534

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	89.925	8.600	13.498	2.515	1.861	3.288	2.789	3.374	34.412



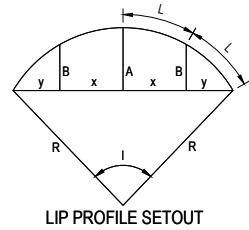
LIP LINE B



LIP LINE D

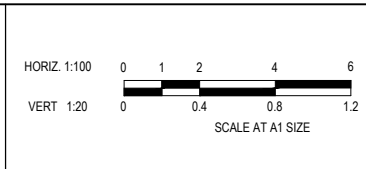
LEGEND

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY



PRELIMINARY PRINT
 NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS
 Date: 18.07.2025
 Drawn: L.SUTHERLAND
 Checked: C.DAWSON
 Date: 18.07.2025
 Approved: C.DAWSON
 Reg. No.: PS0006272
 Date: 18.07.2025
 PS Number: PSS931747A

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

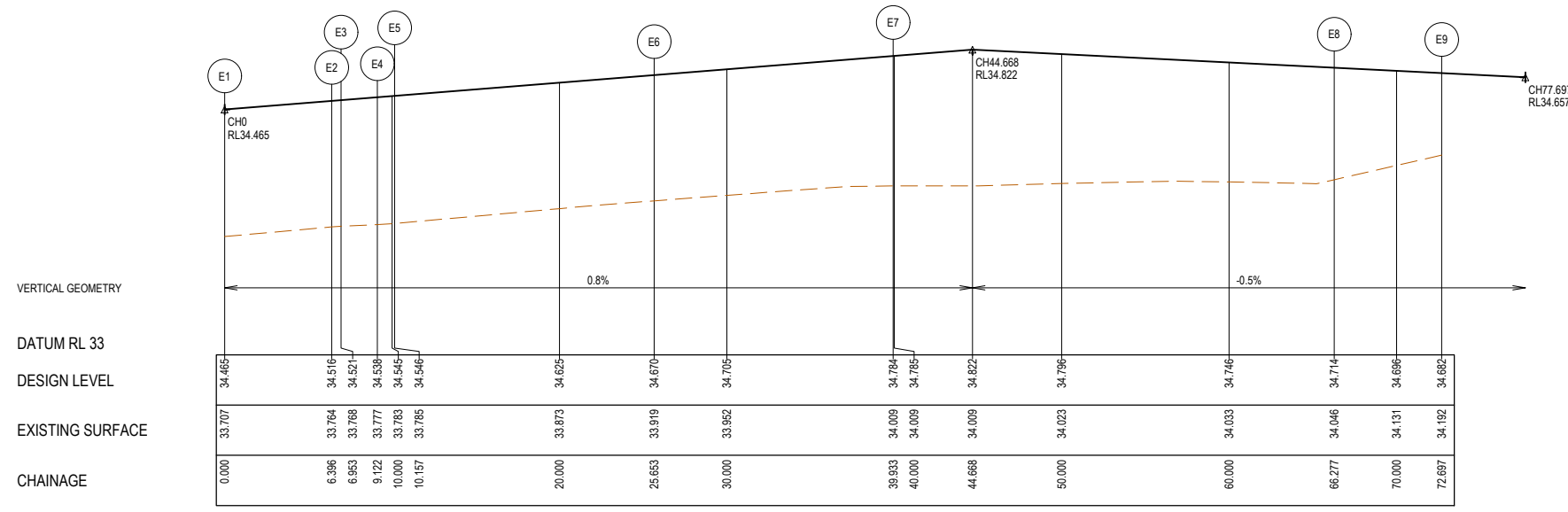
Project Details
 MAPLE GROVE ESTATE
 STAGE 06
 CARDINIA SHIRE COUNCIL

Drawing Title
 INTERSECTION DETAILS
 (SHEET 1 OF 4)

Sheet 20 of 29
 Scale 1:100 H 1:20 V @ A1

Project Ref: 1701814
 Stage No: 06
 Drawing No: 300
 Rev: P2

Q:\m\j\ps\Jobs Data\1701814 - 10 Carty Lane, Pakenham_Eng\Stage 6\Drawings\1701814-06-300-INT.dwg

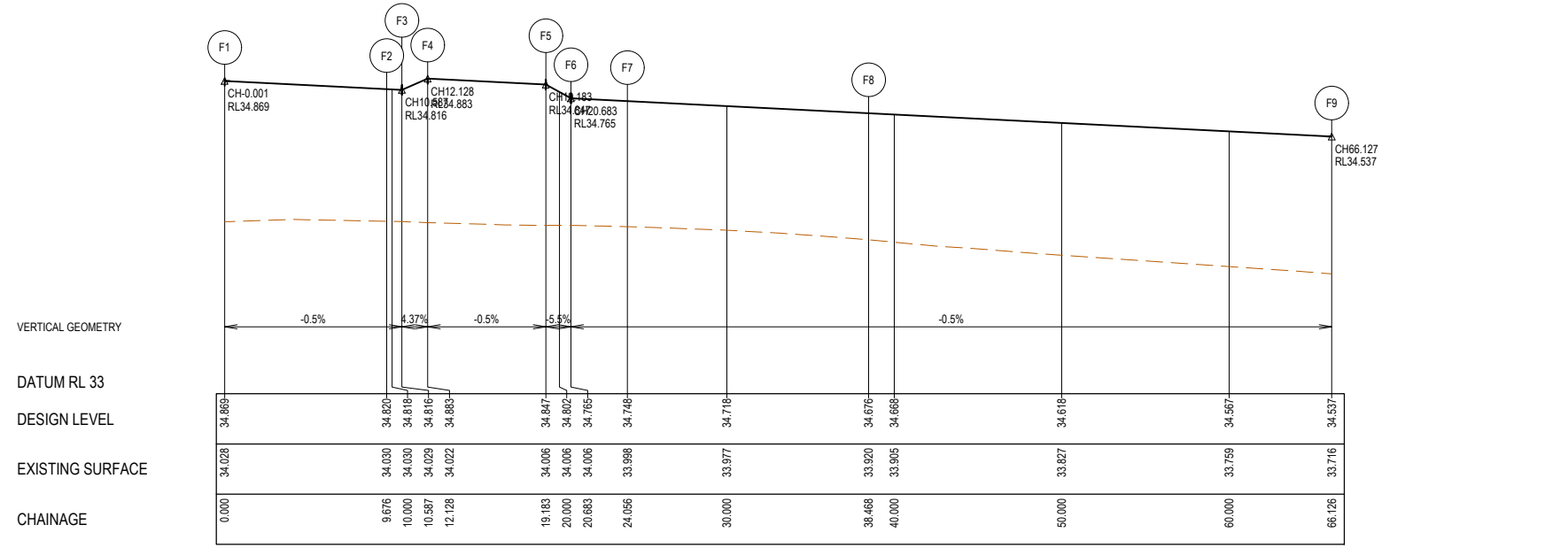


Alignment E

Point no	Easting	Northing	RL
E1	9975.430	4929.253	34.465
E2	9976.403	4935.575	34.516
E3	9976.687	4936.037	34.521
E4	9978.449	4937.301	34.538
E5	9978.976	4938.160	34.546
E6	9978.955	4953.595	34.570
E7	9970.933	4964.783	34.784
E8	9946.022	4972.984	34.714
E9	9939.677	4973.968	34.682

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E2 - E3	45.601	0.700	0.557	0.055	0.041	0.138	0.133	0.139	34.518
E4 - E5	45.601	1.300	1.035	0.102	0.076	0.257	0.247	0.259	34.542
E5 - E6	17.652	50.300	15.496	0.596	0.446	3.870	3.847	3.874	34.608
E6 - E7	53.477	15.300	14.280	1.636	1.221	3.538	3.346	3.570	34.727
E7 - E8	18.797	80.300	26.344	1.078	0.808	6.579	6.534	6.586	34.780

LIP LINE E

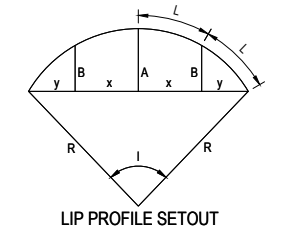


Alignment F

Point no	Easting	Northing	RL
F1	10027.000	4960.415	34.869
F2	10017.438	4961.899	34.820
F3	10016.537	4962.031	34.816
F4	10015.001	4961.915	34.883
F5	10007.956	4962.163	34.847
F6	10006.473	4962.389	34.765
F7	10003.117	4962.059	34.748
F8	9991.678	4954.188	34.676
F9	9982.893	4928.106	34.537

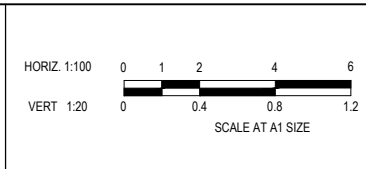
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F2 - F3	1.038	50.300	0.911	0.002	0.002	0.228	0.228	0.228	34.818
F4 - F5	8.085	50.000	7.056	0.124	0.093	1.764	1.761	1.764	34.865
F6 - F7	3.842	50.300	3.373	0.028	0.021	0.843	0.843	0.843	34.756
F7 - F8	53.968	15.300	14.411	1.666	1.243	3.570	3.373	3.603	34.712
F8 - F9	19.735	80.300	27.658	1.188	0.890	6.906	6.855	6.915	34.606

LIP LINE F



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PS0006272
Date 18.07.2025
PS Number PSS931747A

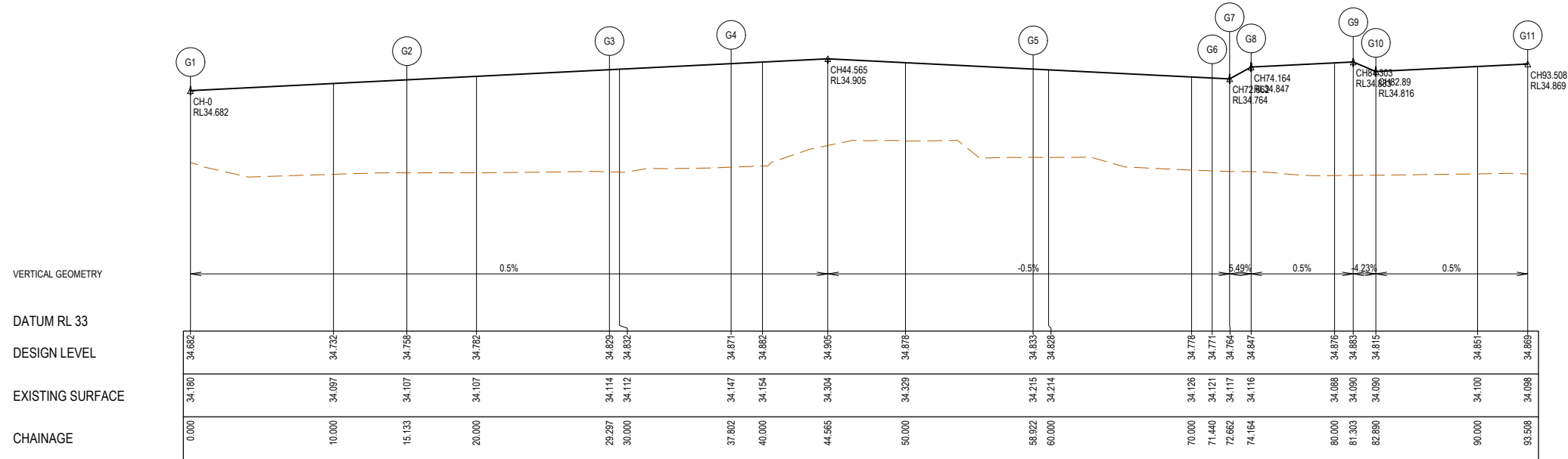
Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 3 OF 4)

Sheet 22 of 29
Scale 1:100 H 1:20 V @ A1

Project Ref 1701814
Stage No 06
Drawing No 302
Rev P2

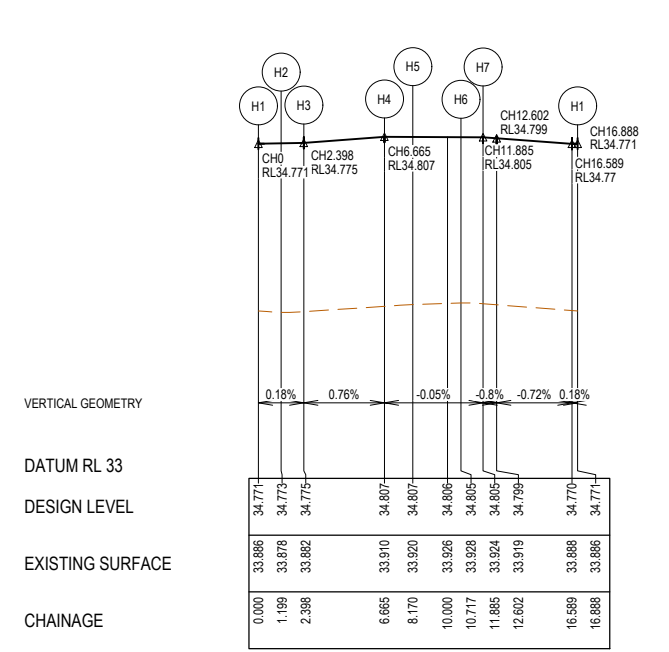


Alignment G

Point no	Easting	Northing	RL
G1	9940.659	4980.293	34.682
G2	9955.613	4977.972	34.758
G3	9969.729	4977.786	34.829
G4	9977.444	4981.099	34.871
G5	9996.697	4980.139	34.833
G6	10006.935	4973.049	34.771
G7	10008.050	4972.549	34.764
G8	10009.521	4972.247	34.847
G9	10016.224	4969.798	34.883
G10	10017.627	4969.056	34.816
G11	10027.982	4966.740	34.869

LIP LINE G

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
G2 - G3	16.133	50.300	14.163	0.498	0.373	3.538	3.520	3.541	34.793
G3 - G4	31.776	15.336	8.505	0.586	0.439	2.120	2.079	2.126	34.850
G4 - G5	84.033	14.400	21.120	3.701	2.744	5.162	4.476	5.280	34.886
G5 - G6	20.319	35.300	12.519	0.553	0.415	3.126	3.101	3.130	34.802
G6 - G7	0.872	80.300	1.222	0.002	0.002	0.305	0.305	0.305	34.767
G8 - G9	5.113	80.000	7.139	0.080	0.060	1.785	1.784	1.785	34.865
G10 - G11	7.576	80.300	10.618	0.175	0.132	2.654	2.651	2.655	34.842

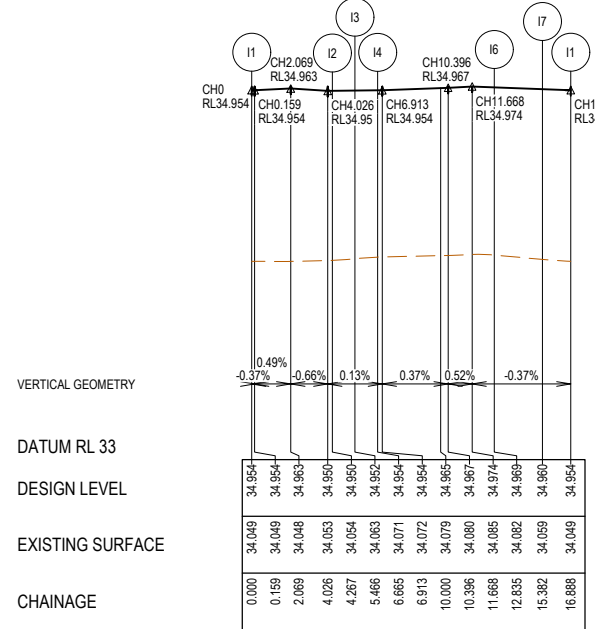


Alignment H

Point no	Easting	Northing	RL
H1	9983.310	4949.942	34.771
H2	9984.101	4949.159	34.773
H3	9985.048	4949.742	34.775
H4	9985.523	4953.746	34.807
H5	9985.902	4954.929	34.807
H6	9983.435	4955.562	34.805
H7	9982.691	4954.906	34.805

LIP LINE H

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
H1 - H2	76.330	0.900	1.199	0.192	0.143	0.294	0.262	0.300	34.772
H2 - H3	76.330	0.900	1.199	0.192	0.143	0.294	0.262	0.300	34.774
H4 - H5	95.830	0.900	1.505	0.297	0.219	0.365	0.302	0.376	34.807
H6 - H7	111.510	0.600	1.168	0.262	0.193	0.281	0.215	0.292	34.805

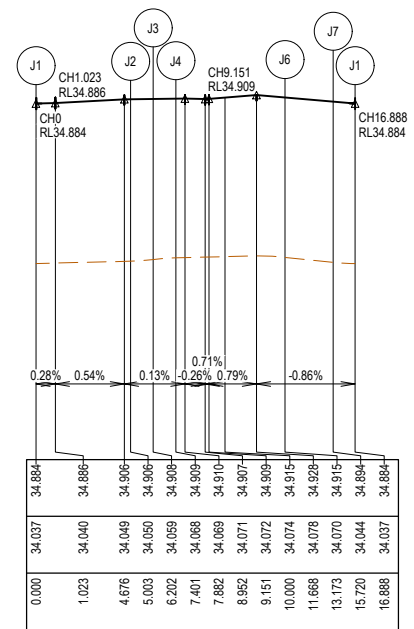


Alignment I

Point no	Easting	Northing	RL
I1	9970.351	4969.990	34.954
I2	9966.351	4971.475	34.949
I3	9965.770	4972.424	34.951
I4	9966.555	4973.213	34.953
I5	9971.521	4973.820	34.974
I6	9972.175	4973.073	34.969
I7	9971.535	4970.608	34.959

LIP LINE I

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
I2 - I3	76.330	0.900	1.199	0.192	0.143	0.294	0.262	0.300	34.950
I3 - I4	76.330	0.900	1.199	0.192	0.143	0.294	0.262	0.300	34.952
I5 - I6	111.510	0.600	1.168	0.262	0.193	0.281	0.215	0.292	34.971
I7 - I1	95.830	0.900	1.505	0.297	0.219	0.365	0.302	0.376	34.956

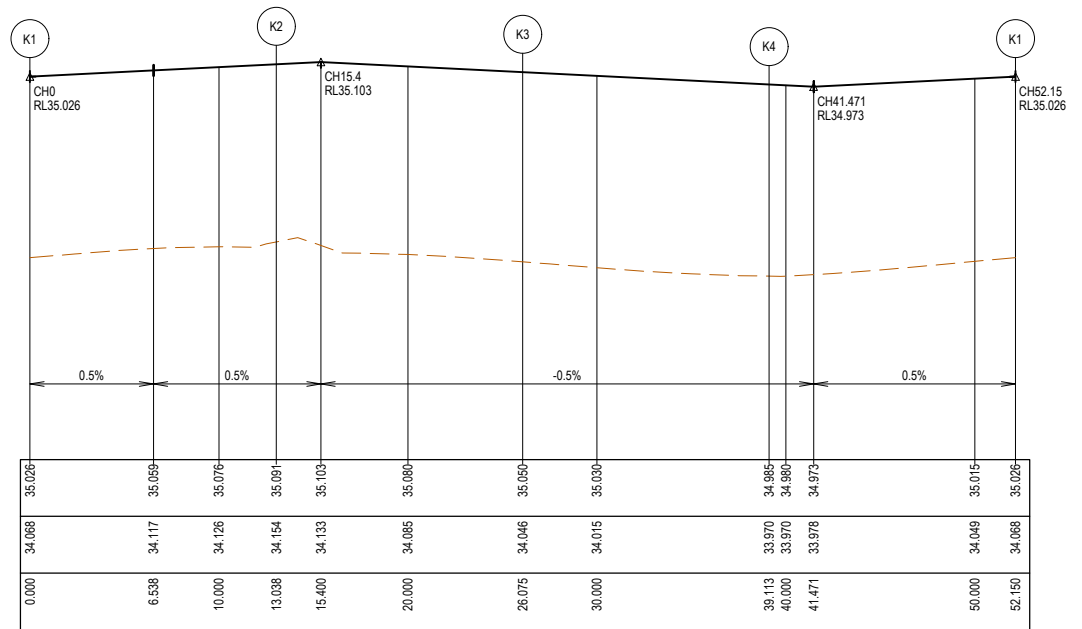


Alignment J

Point no	Easting	Northing	RL
J1	10001.556	4966.048	34.884
J2	10006.522	4966.655	34.908
J3	10007.307	4967.443	34.910
J4	10006.726	4968.392	34.911
J5	10002.726	4969.877	34.935
J6	10001.542	4969.259	34.920
J7	10000.902	4966.794	34.895

LIP LINE J

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
J2 - J3	76.330	0.900	1.199	0.192	0.143	0.294	0.262	0.300	34.909
J3 - J4	76.330	0.900	1.199	0.192	0.143	0.294	0.262	0.300	34.910
J5 - J6	95.830	0.900	1.505	0.297	0.219	0.365	0.302	0.376	34.927
J7 - J1	111.510	0.600	1.168	0.262	0.193	0.281	0.215	0.292	34.889

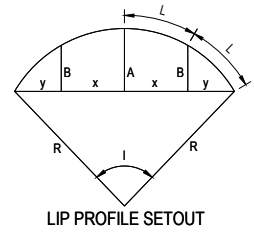


Alignment K

Point no	Easting	Northing	RL
K1	9994.838	4969.934	35.026
K2	9986.539	4976.234	35.091
K3	9978.239	4969.834	35.050
K4	9986.539	4961.634	34.985

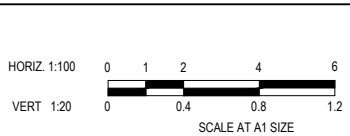
LIP LINE K

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
K1 - K2	90.000	8.300	13.038	2.431	1.799	3.176	2.693	3.259	35.059
K2 - K3	90.000	8.300	13.038	2.431	1.799	3.176	2.693	3.259	35.082
K3 - K4	90.000	8.300	13.038	2.431	1.799	3.176	2.693	3.259	35.017
K4 - K1	90.000	8.300	13.038	2.431	1.799	3.176	2.693	3.259	34.994



PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. P50036272
Date 18.07.2025
PS Number PSS31747A

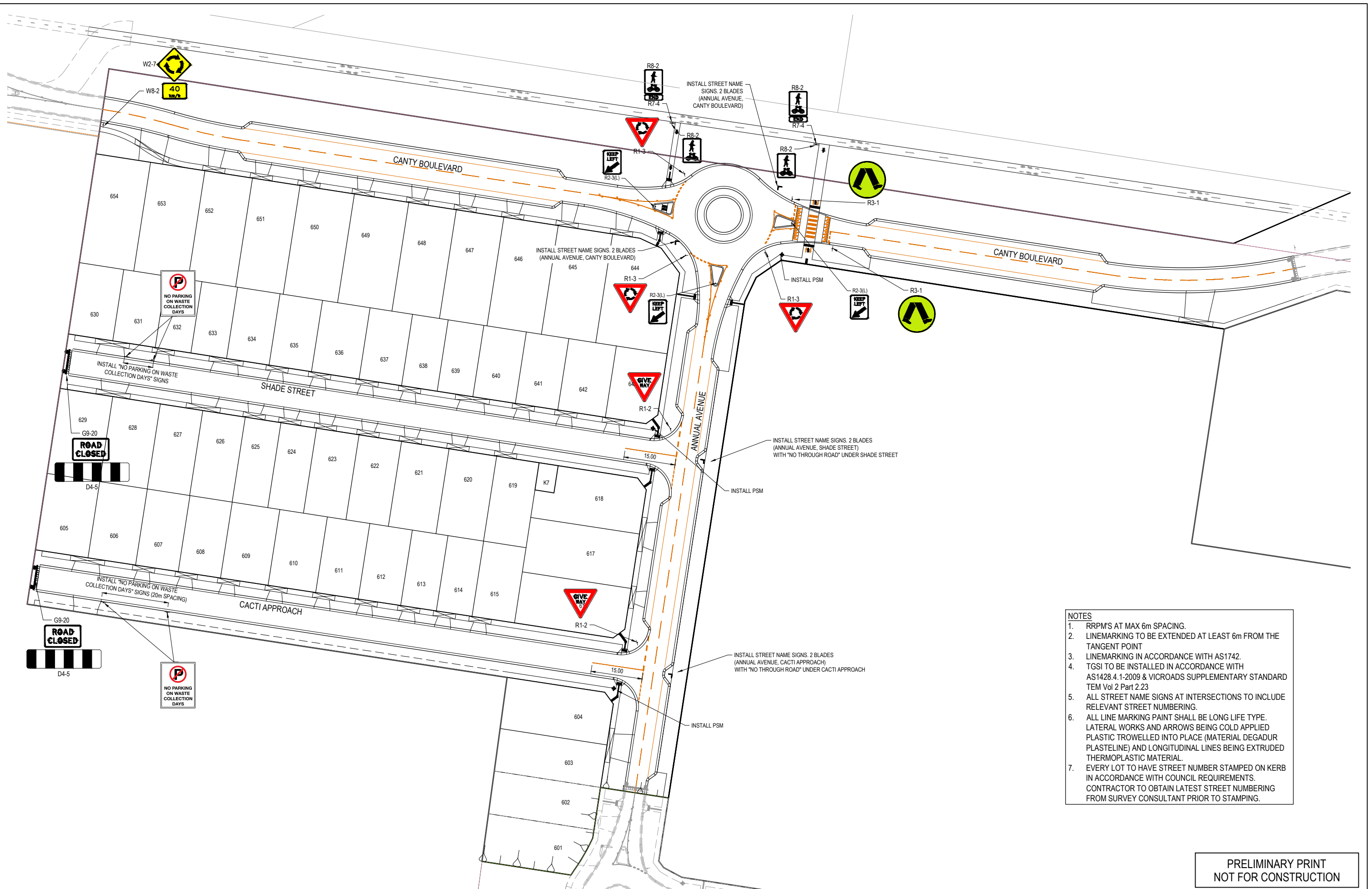
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 4 OF 4)

Sheet 23 of 29
Scale 1:100 H 1:20 V @ A1

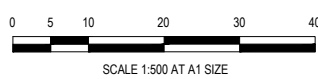
Project Ref 1701814
Stage No 06
Drawing No 303
Rev P2



- NOTES**
- RRPM'S AT MAX 6m SPACING.
 - LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
 - LINEMARKING IN ACCORDANCE WITH AS1742.
 - TGSI TO BE INSTALLED IN ACCORDANCE WITH AS1428.4.1-2009 & VICROADS SUPPLEMENTARY STANDARD TEM Vol 2 Part 2.23
 - ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVANT STREET NUMBERING.
 - ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
 - EVERY LOT TO HAVE STREET NUMBER STAMPED ON KERB IN ACCORDANCE WITH COUNCIL REQUIREMENTS. CONTRACTOR TO OBTAIN LATEST STREET NUMBERING FROM SURVEY CONSULTANT PRIOR TO STAMPING.

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed N.SMOLENAARS
 Date 18.07.2025
 Drawn L.SUTHERLAND
 Checked C.DAWSON
 Date 18.07.2025
 Approved C.DAWSON
 Reg. No. PE0008272
 Date 18.07.2025
 PS Number PSS931747A

Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
 MAPLE GROVE ESTATE
 STAGE 06
 CARDINIA SHIRE COUNCIL

Drawing Title
 SIGNAGE & LINE MARKING PLANS

Sheet 24 of 29
 Scale 1:500 @ A1

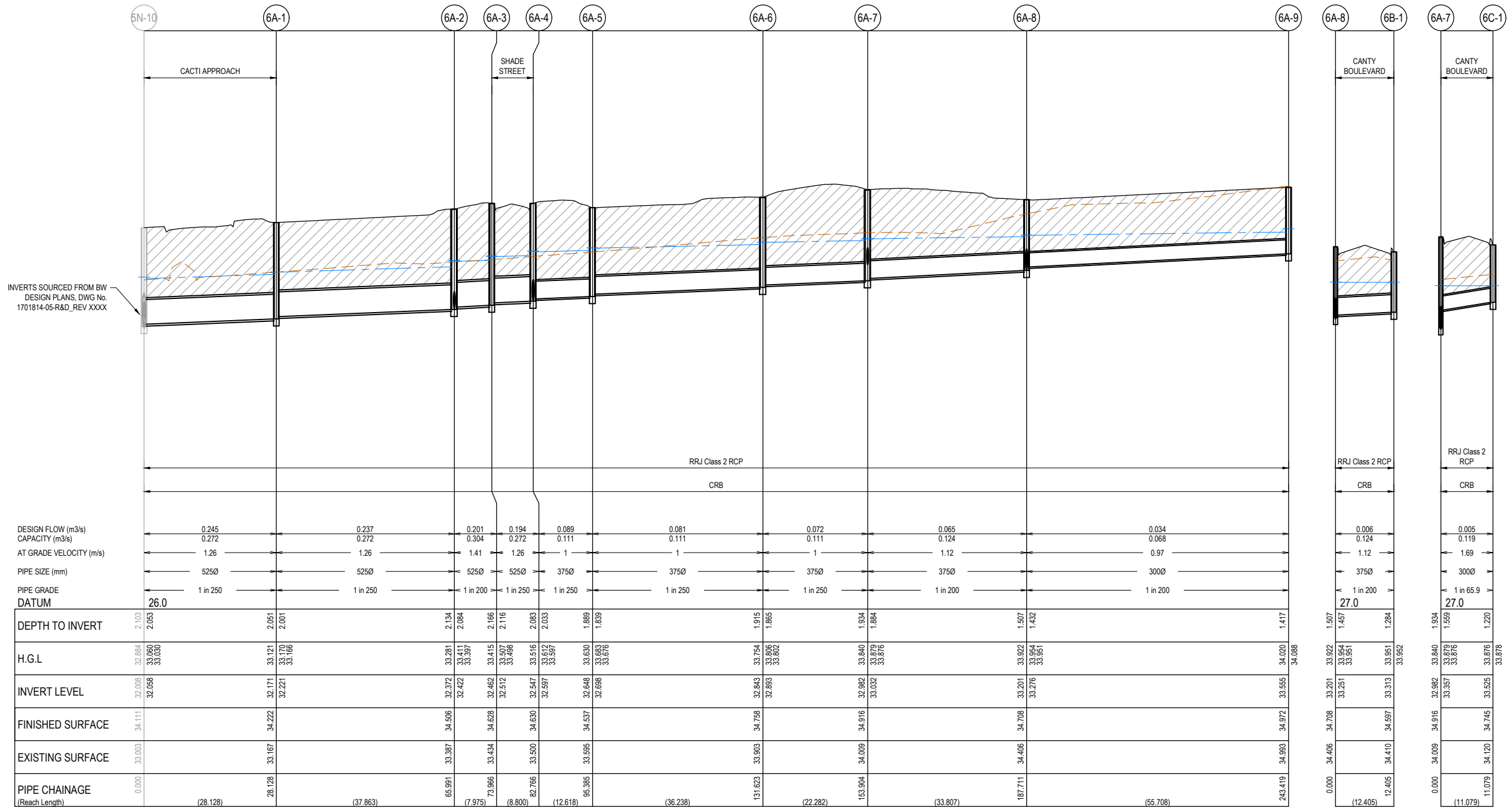
Project Ref 1701814
 Stage No 06
 Drawing No 350
 Rev P2

Q:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham, Eng\Stage 6\Drawings\1701814-06-350-LMP.dwg

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

LEGEND

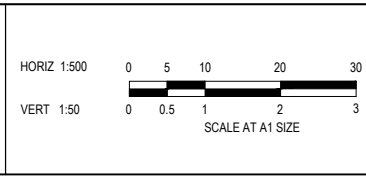
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- DENOTES 20mm CLASS 3 FCR BACKFILL



	5N-10	6A-1	6A-2	6A-3	6A-4	6A-5	6A-6	6A-7	6A-8	6A-9	6A-8	6B-1	6A-7	6C-1
DESIGN FLOW (m ³ /s)	0.245	0.237	0.201	0.194	0.089	0.081	0.072	0.065	0.034		0.006	0.005		
CAPACITY (m ³ /s)	0.272	0.272	0.304	0.272	0.111	0.111	0.111	0.124	0.068		0.124	0.119		
AT GRADE VELOCITY (m/s)	1.26	1.26	1.41	1.26	1	1	1	1.12	0.97		1.12	1.69		
PIPE SIZE (mm)	5250	5250	5250	5250	3750	3750	3750	3750	3000		3750	3000		
PIPE GRADE DATUM	26.0										27.0			
DEPTH TO INVERT	2.103	2.051	2.134	2.084	2.166	2.116	2.083	2.033	1.889	1.839	1.915	1.865	1.934	1.884
H.G.L	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058
INVERT LEVEL	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058	32.008	32.058
FINISHED SURFACE	34.111	34.222	34.506	34.628	34.628	34.628	34.628	34.628	34.628	34.628	34.628	34.628	34.628	34.628
EXISTING SURFACE	33.003	33.167	33.387	33.434	33.507	33.488	33.507	33.488	33.507	33.488	33.507	33.488	33.507	33.488
PIPE CHAINAGE (Reach Length)	0.000	28.128	65.991	73.966	82.766	95.985	131.623	153.904	187.711	243.419	0.000	12.405	0.000	11.079
		(28.128)	(37.863)	(7.975)	(8.800)	(12.618)	(36.238)	(22.282)	(33.807)	(55.708)		(12.405)		(11.079)

**PRELIMINARY PRINT
 NOT FOR CONSTRUCTION**

© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted.					
REV	DESCRIPTION	DATE	DRN.	APP.	REV.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD	
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD	



Designed: N.SMOLENAARS
 Date: 18.07.2025
 Drawn: L.SUTHERLAND
 Checked: C.DAWSON
 Date: 18.07.2025
 Approved: C.DAWSON
 Reg. No.: PS0008272
 Date: 18.07.2025
 PS Number: PSS931747A

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

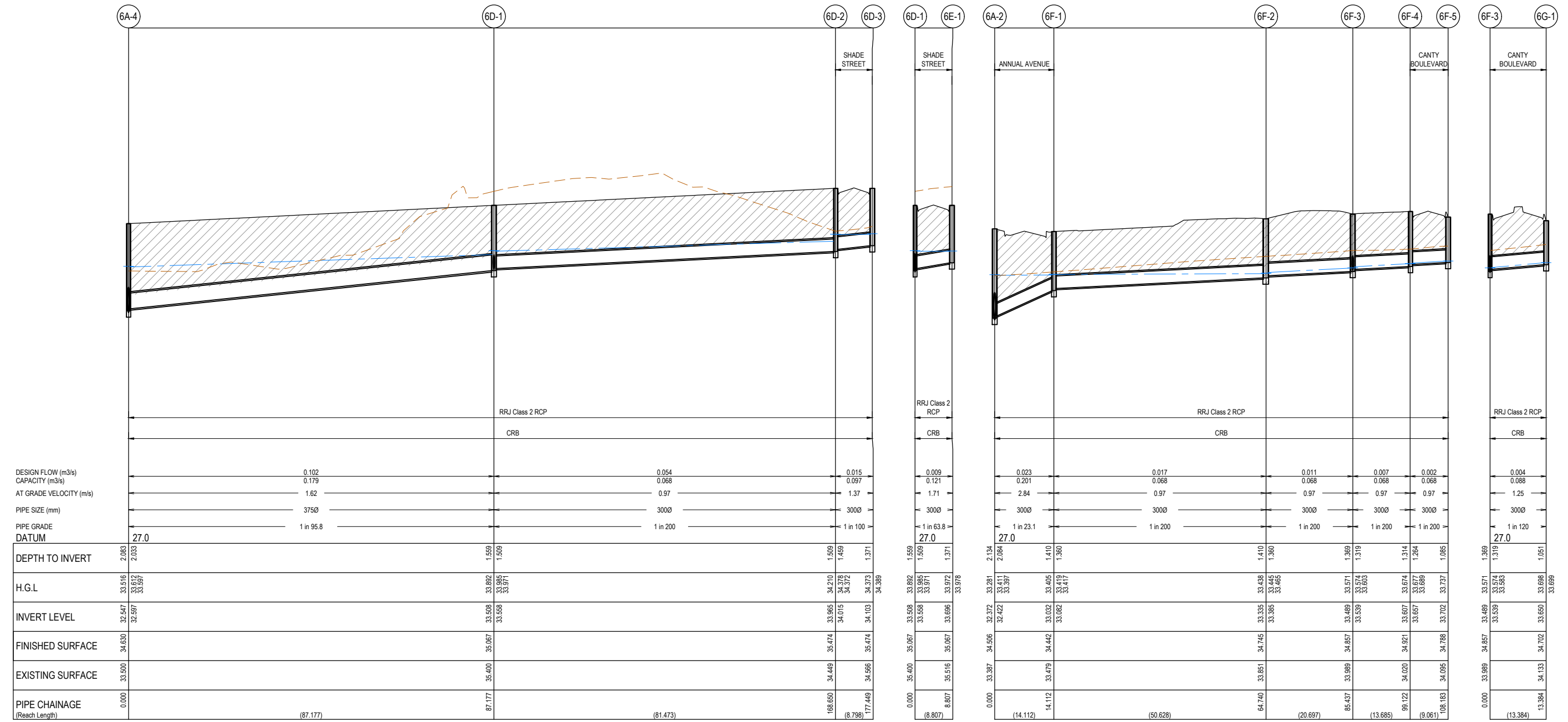
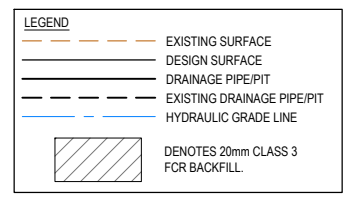
Project Details: MAPLE GROVE ESTATE
 STAGE 06
 CARDINIA SHIRE COUNCIL

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 1 OF 4)

Sheet	25 of 29
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	06
Drawing No	400
Rev	P2

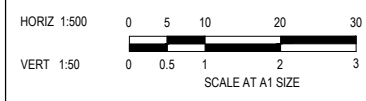
Q:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham, Eng\Stage 6\Drawings\1701814-06-400-DLS.dwg

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



**PRELIMINARY PRINT
 NOT FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP.	REV	DESCRIPTION	DATE	DRN	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



Designed: N.SMOLENAARS
 Date: 18.07.2025
 Drawn: L.SUTHERLAND
 Checked: C.DAWSON
 Date: 18.07.2025
 Approved: C.DAWSON
 Reg. No.: P80086272
 Date: 18.07.2025
 PS Number: PSS931747A

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details: MAPLE GROVE ESTATE
 STAGE 06
 CARDINIA SHIRE COUNCIL

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 2 OF 4)

Sheet 26 of 29
 Scale: 1:500 H 1:50 V @ A1

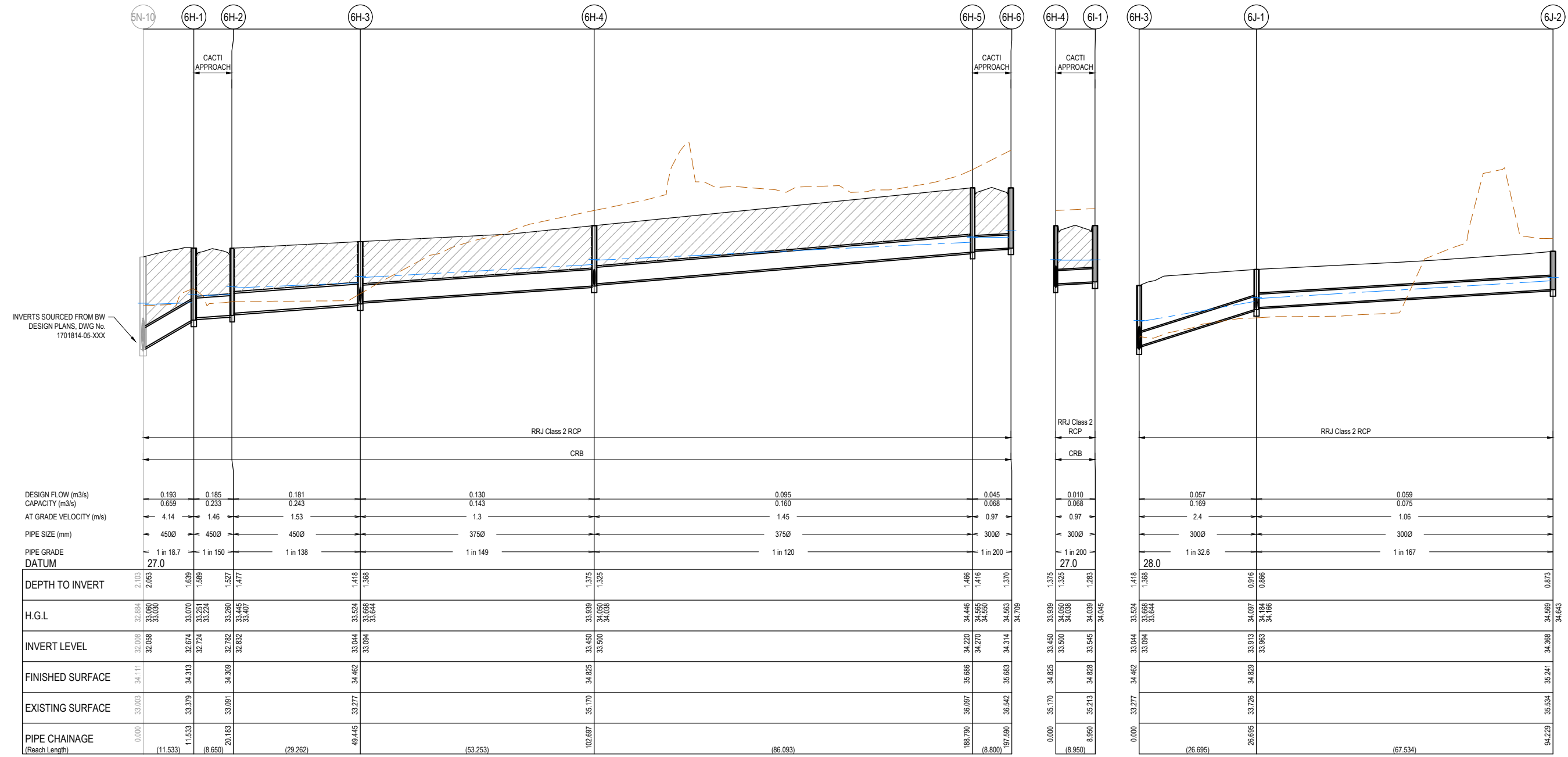
Project Ref: 1701814
 Stage No: 06
 Drawing No: 401
 Rev: P2

Q:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham_Eng\Stage 6\Drawings\1701814-06-400-DLS.dwg

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

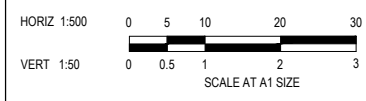
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- DENOTES 20mm CLASS 3 FCR BACKFILL



**PRELIMINARY PRINT
 NOT FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					



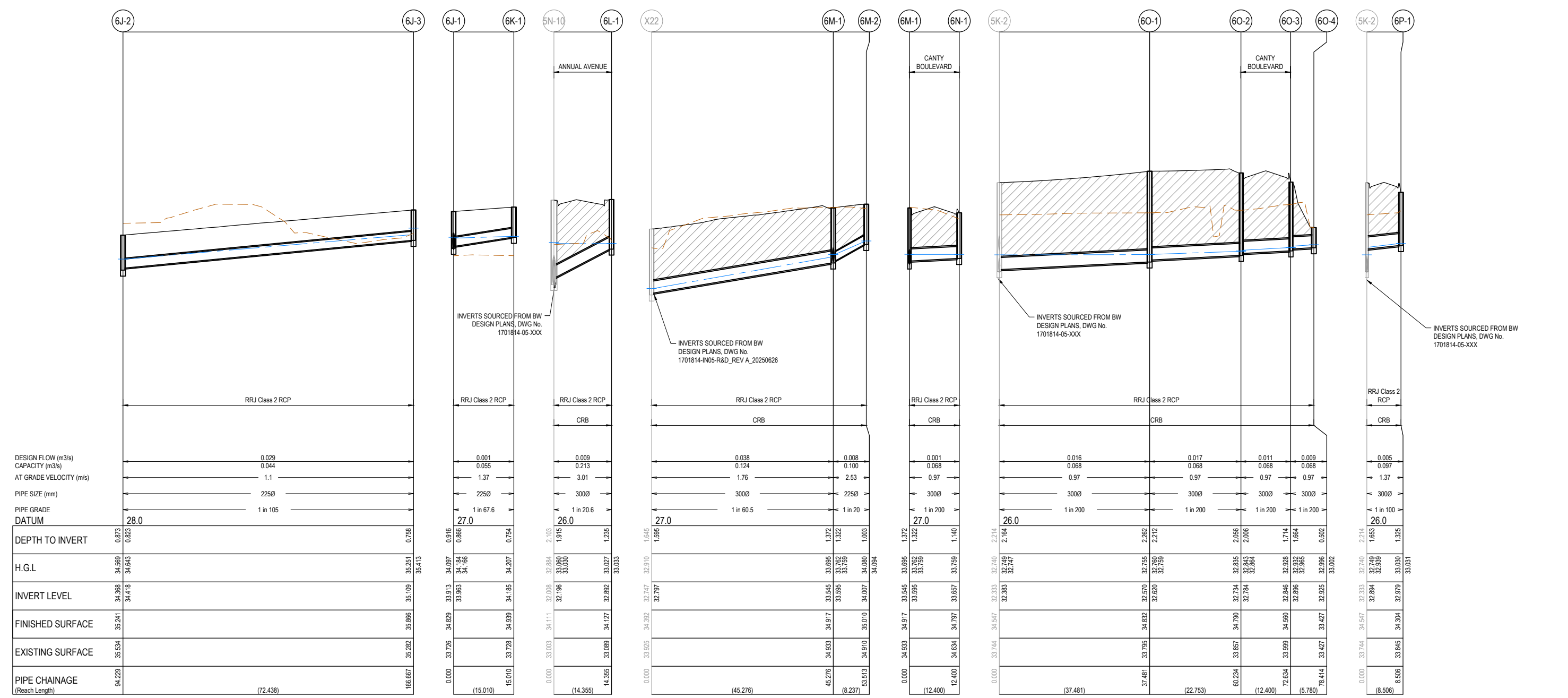
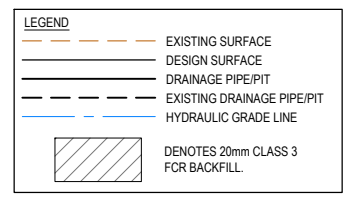
Designed N.SMOLENAARS
 Date 18.07.2025
 Drawn L.SUTHERLAND
 Checked C.DAWSON
 Date 18.07.2025
 Approved C.DAWSON
 Reg. No. PE0006272
 Date 18.07.2025
 PS Number PSS31747A

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
 MAPLE GROVE ESTATE
 STAGE 06
 CARDINIA SHIRE COUNCIL
 Drawing Title
 DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 3 OF 4)

Sheet 27 of 29
 Scale 1:500 H 1:50 V @ A1
 Project Ref 1701814 Stage No 06 Drawing No 402 Rev P2

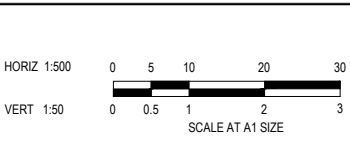
NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



**PRELIMINARY PRINT
 NOT FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD					

DATE	DRN.	APP.



Designed: N.SMOLENAARS
 Date: 18.07.2025
 Drawn: L.SUTHERLAND
 Checked: C.DAWSON
 Date: 18.07.2025
 Approved: C.DAWSON
 Reg. No: PS0008672
 Date: 18.07.2025
 PS Number: PSS931747A

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details: MAPLE GROVE ESTATE
 STAGE 06
 CARDINIA SHIRE COUNCIL

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 4 OF 4)

Sheet 28 of 29
 Scale 1:500 H 1:50 V @ A1

Project Ref: 1701814
 Stage No: 06
 Drawing No: 403
 Rev: P2

Q:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham_Eng\Stage 6\Drawings\1701814-06-400-DLS.dwg

PIT SCHEDULE											
PIT NAME	TYPE	INTERNAL		INLET		OUTLET		PIT		PIT DETAIL	REMARKS
		WD	LEN	DIA	INVLEV	DIA	INVLEV	SETOUT RL	DEPTH		
6A-1	GRATED SIDE ENTRY PIT	600	900	525	32.221	525	32.171	34.222	2.051	EDCM 601	
6A-2	JUNCTION PIT	600	900	525	32.422	525	32.372	34.506	2.134	EDCM 605	
				300	32.422						
6A-3	GRATED SIDE ENTRY PIT	600	900	525	32.512	525	32.462	34.628	2.166	EDCM 603	
6A-4	GRATED SIDE ENTRY PIT	600	900	375	32.597	525	32.547	34.630	2.083	EDCM 603	
				375	32.597						
6A-5	GRATED SIDE ENTRY PIT	600	900	375	32.698	375	32.648	34.537	1.889	EDCM 601	
6A-6	GRATED SIDE ENTRY PIT	600	900	375	32.893	375	32.843	34.758	1.915	EDCM 603	
6A-7	GRATED SIDE ENTRY PIT	600	900	375	33.032	375	32.982	34.916	1.934	EDCM 603	
				300	33.357						
6A-8	DOUBLEGRATED SIDE ENTRY PIT	600	900	300	33.276	375	33.201	34.708	1.507	EDCM 602	
				375	33.251						
6A-9	JUNCTION PIT	600	900			300	33.555	34.972	1.417	EDCM 605	
6B-1	DOUBLEGRATED SIDE ENTRY PIT	600	900			375	33.313	34.597	1.284	EDCM 602	
6C-1	GRATED SIDE ENTRY PIT	600	900			300	33.525	34.745	1.220	EDCM 603	
6D-1	GRATED SIDE ENTRY PIT	600	900	300	33.558	375	33.508	35.067	1.559	EDCM 603	
				300	33.558						
6D-2	GRATED SIDE ENTRY PIT	600	900	300	34.015	300	33.965	35.474	1.509	EDCM 603	
6D-3	GRATED SIDE ENTRY PIT	600	900			300	34.103	35.474	1.371	EDCM 603	
6E-1	GRATED SIDE ENTRY PIT	600	900			300	33.696	35.067	1.371	EDCM 603	
6F-1	GRATED SIDE ENTRY PIT	600	900	300	33.082	300	33.032	34.442	1.410	EDCM 601	
6F-2	GRATED SIDE ENTRY PIT	600	900	300	33.385	300	33.335	34.745	1.410	EDCM 603	
6F-3	JUNCTION PIT	600	900	300	33.539	300	33.489	34.857	1.369	EDCM 605	
				300	33.539						
6F-4	DOUBLEGRATED SIDE ENTRY PIT	600	900	300	33.657	300	33.607	34.921	1.314	EDCM 604	
6F-5	DOUBLEGRATED SIDE ENTRY PIT	600	900			300	33.702	34.788	1.085	EDCM 604	
6G-1	DOUBLEGRATED SIDE ENTRY PIT	600	900			300	33.650	34.702	1.051	EDCM 604	
6H-1	GRATED SIDE ENTRY PIT	600	900	450	32.724	450	32.674	34.313	1.639	EDCM 603	
6H-2	GRATED SIDE ENTRY PIT	600	900	450	32.832	450	32.782	34.309	1.527	EDCM 603	
6H-3	JUNCTION PIT	600	900	375	33.094	450	33.044	34.462	1.418	EDCM 605	
				300	33.094						
6H-4	GRATED SIDE ENTRY PIT	600	900	375	33.500	375	33.450	34.825	1.375	EDCM 603	
				300	33.500						
6H-5	GRATED SIDE ENTRY PIT	600	900	300	34.270	375	34.220	35.686	1.466	EDCM 603	
6H-6	GRATED SIDE ENTRY PIT	600	900			300	34.314	35.683	1.370	EDCM 603	
6I-1	GRATED SIDE ENTRY PIT	600	900			300	33.545	34.828	1.283	EDCM 603	
6J-1	JUNCTION PIT	600	900	300	33.963	300	33.913	34.829	0.916	EDCM 605	
				225	33.963						
6J-2	JUNCTION PIT	600	900	225	34.418	300	34.368	35.241	0.873	EDCM 605	
6J-3	JUNCTION PIT	600	900			225	35.109	35.866	0.758	EDCM 605	
6K-1	JUNCTION PIT	600	900			225	34.185	34.939	0.754	EDCM 605	
6L-1	GRATED SIDE ENTRY PIT	600	900			300	32.892	34.127	1.235	EDCM 601	
6M-1	GRATED SIDE ENTRY PIT	600	900	225	33.595	300	33.545	34.917	1.372	EDCM 601	
				300	33.595						
6M-2	JUNCTION PIT	600	900			225	34.007	35.010	1.003	EDCM 601	
6N-1	GRATED SIDE ENTRY PIT	600	900			300	33.657	34.797	1.14	EDCM 601	
6O-1	JUNCTION PIT	600	900	300	32.62	300	32.57	34.832	2.262	EDCM 605	
6O-2	GRATED SIDE ENTRY PIT	600	900	300	32.784	300	32.734	34.79	2.056	EDCM 601	
6O-3	GRATED SIDE ENTRY PIT	600	900	300	32.896	300	32.846	34.56	1.714	EDCM 601	
6O-4	JUNCTION PIT	600	900			300	32.925	33.427	0.502	EDCM 605	PROVIDE GRATED COVER
6P-1	GRATED SIDE ENTRY PIT	600	900			300	32.979	34.304	1.325	EDCM 603	
X22	RD PIT			300	32.797			34.392	1.645	EDCM 603	
5N-10	RD PIT					675	32.008	34.111	2.103	EDCM 603	REMOVE TEMPORARY COVER AND INSTALL CLASS B COVER
				525	32.058						
				450	32.058						
				300	32.196						
5P-1	EDCM603 - 225					300	32.772	34.006	1.234	EDCM 601	REMOVE TEMPORARY COVER AND INSTALL GRATED SIDE INLET AND CLASS B COVER

PRELIMINARY PRINT
NOT FOR CONSTRUCTION

© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended purpose. No unauthorised copying is permitted										
P2	AMENDED FOR COUNCIL COMMENTS	05.09.25	NS	CD						
P1	ISSUED FOR INFORMATION	06.08.25	NS	CD						
REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP	

Designed N.SMOLENAARS
Date 18.07.2025
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 18.07.2025
Approved C.DAWSON
Reg. No. PS0006272
Date 18.07.2025
PS Number PSS931747A



Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 06
CARDINIA SHIRE COUNCIL

Drawing Title
PIT SCHEDULE

Sheet	29 of 29
Scale	NOT TO SCALE
Project Ref	1701814
Stage No	06
Drawing No	404
Rev	P2