

Our Reference: 9327470

4 September 2023



Dongwei Zhang
Beveridge Williams
1 Glenferrie Road
Malvern Vic 3144

Dear Dongwei

PA2014/4497 - Davis Vineyard Estate Precinct 2 - Stage 8 - Engineering Plans - Approval Letter

The above-mentioned plans, received by Council on and complied on 1 September 2023, are approved. Please find attached the approved stamped road & drainage plans.

Council believes the list below represents the latest plan submission:

Project No: 1600029

Drawing #

Revision #

001 to 002, 010 to 011, 100 to 101, 200 to 201 300, 350 and 400 to 401 A

The approval is subject to compliance of all statutory and legal obligations and granted with the understanding that the engineering consultant, developer and landowner take full responsibility for the design contained in the approved engineering plans.


Please note the following:

- The approval of these plans is valid for one year. Where construction does not commence within that time, the plans must be resubmitted to Council for assessment using applicable engineering standards at the time of resubmission. New plan checking fees will also be applicable.
- No construction works can commence outside the development's property boundaries unless or until consent is provided by the adjoining landowner.
- A 'Consent to Work Within a Road Reserve' must be applied for where works will be done on an existing road. The form is available on Melton Council's website link <https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>
- A Traffic Management Plan must be submitted where works will occur on existing roads, and where the works are traffic impact works, it must be approved by Council's Traffic team before works commence. The form is available on Melton Council's website link <https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>

DAVIS VINEYARD PRECINCT 2 - STAGE 8

AUSTRALIAN INVESTMENT & DEVELOPMENT PTY. LTD.

CITY OF MELTON



APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023

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 Victorian Workcover Authority - 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 City of Melton 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 7251/4/203) 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.
- A8. Contractor is obliged to obtain a permit for any blasting works. The contractor when engaged in blasting operation, shall not blast with 4.50m of an existing line of water, gas or sewer pipes or with 15m of any completed part of the works without the consent of the superintendent.
- A9. Contractor is obliged to obtain the necessary "works within road reserve" consent from the relevant authority for works encroaching onto an established road reserve.
- A10. Contractor need a traffic management plan approved by Council for all traffic impacting works.

GENERAL

- B1. All works to be carried out to the standard of drawings and specifications as approved by Melton City Council. In case of dispute the Specifications must take precedence.
- B2. Pre-commencement meeting needs to be scheduled with Council 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 (2007) & undertake safety precautions in trenching operations in accordance with Workcover's code of practice (1988).
- 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 City of Melton 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. Timber railings need to be facing inwards to the property side.
- B10. All nature strips & excavated or filled areas outside of the road reserves shall be surfaced with a 100mm compacted layer of topsoil as specified.
- B11. All line-marking to be long-life thermoplastic line-marking.

ROADWORKS

- C1. 100a agricultural pipe drains (Council Std. Dwg. MCC 202) to be placed behind all kerb & channel & buffer pitches & 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 concrete 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 City of Melton standards including logo. Street signs to be erected as per Council Std. Dwg. MCC 205.
- 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 Council Std. Dwg. MCC 501-503. Single driveways to be a minimum 3.5m wide & to be offset 0.60m from property boundary 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. Tactile ground surface indicators (TGS) are to be installed at all tram crossings & pedestrian cross points in accordance with AS1428.4 : 2002 & MPA standard drawing EDCM 403.

DRAINAGE

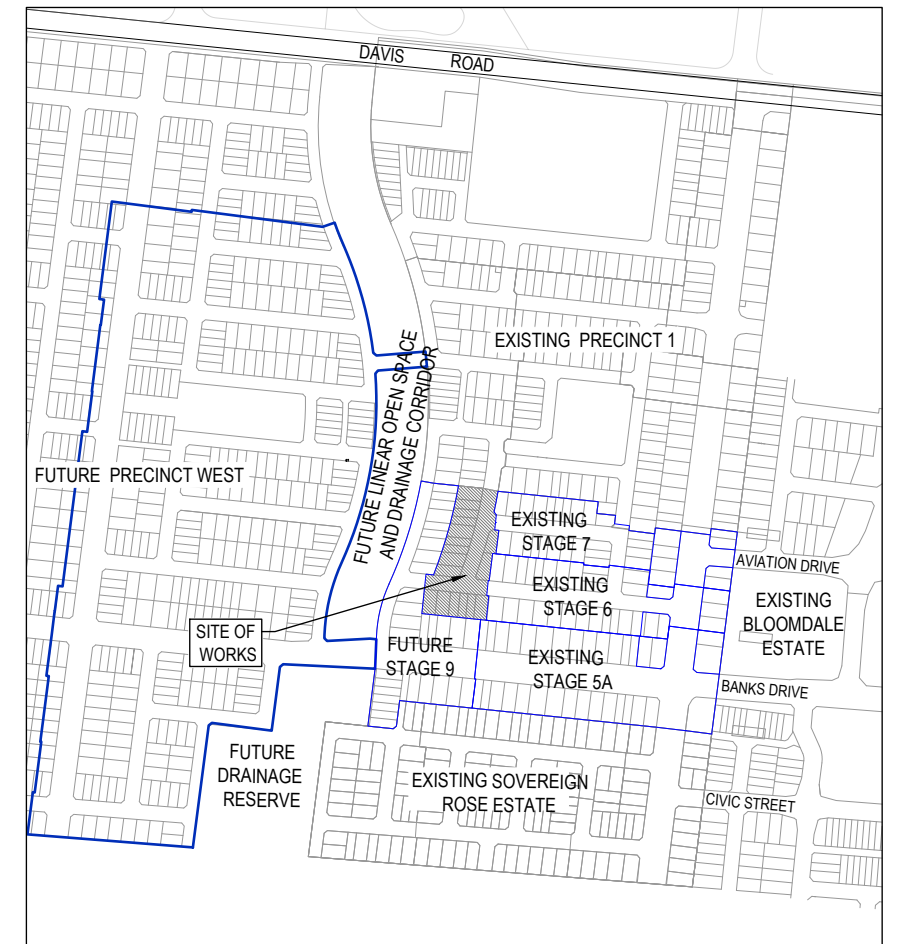
- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages.
- D2. Lightweight fibreglass type pit lids are required for all drainage pits & all grates for pits are to be Class D, to comply with AS3996 unless otherwise shown. All drainage works are to be constructed 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 flush 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 2' R.C. rubber ring joint 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 City of Melton works supervisor.

DRAWING INDEX

DRAWING No.	TITLE	REV
1600059-08-001	COVER SHEET	A
1600059-08-002	TYPICAL ROAD CROSS SECTIONS AND PAVEMENT MAKEUP & GENERAL DETAILS	A
1600059-08-010	LAYOUT PLAN	A
1600059-08-011	INTEGRATED WATER MANAGEMENT PLAN	A
1600059-08-100	ROAD LONGITUDINAL SECTION - RYNA'S WAY	A
1600059-08-101	ROAD LONGITUDINAL SECTION - MAN DRIVE	A
1600059-08-200	ROAD CROSS SECTIONS - RYNA'S WAY	A
1600059-08-201	ROAD CROSS SECTIONS - MAN DRIVE	A
1600059-08-300	INTERSECTION DETAILS	A
1600059-08-350	SIGNAGE & LINE MARKING PLANS	A
1600059-08-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 2)	A
1600059-08-401	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 2) & PIT SCHEDULE	A



SITE PLAN

NOT TO SCALE
 MELWAY REF: 351 H2

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
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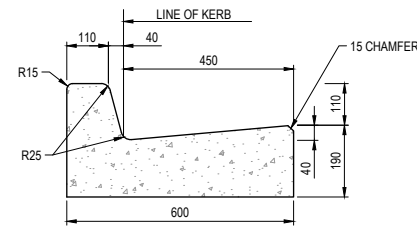
Designed	D. ZHANG
Date	26.04.2022
Drawn	D. ZHANG
Checked	R. WICKETT
Date	27.06.2022
Approved	L. TRAHAN
Reg. No.	PE00079596
Date	31.08.2023
PS Number	PS 822978N/S4



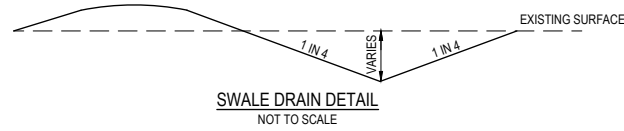
Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details	DAVIS VINEYARD PRECINCT 2 - STAGE 8 AUST. INVESTMENT & DEVELOPMENT P/L CITY OF MELTON
Drawing Title	COVER SHEET

Sheet	01 of 12
Scale	NOT TO SCALE
Project Ref	1600059
Stage No	08
Drawing No	001
Rev	A



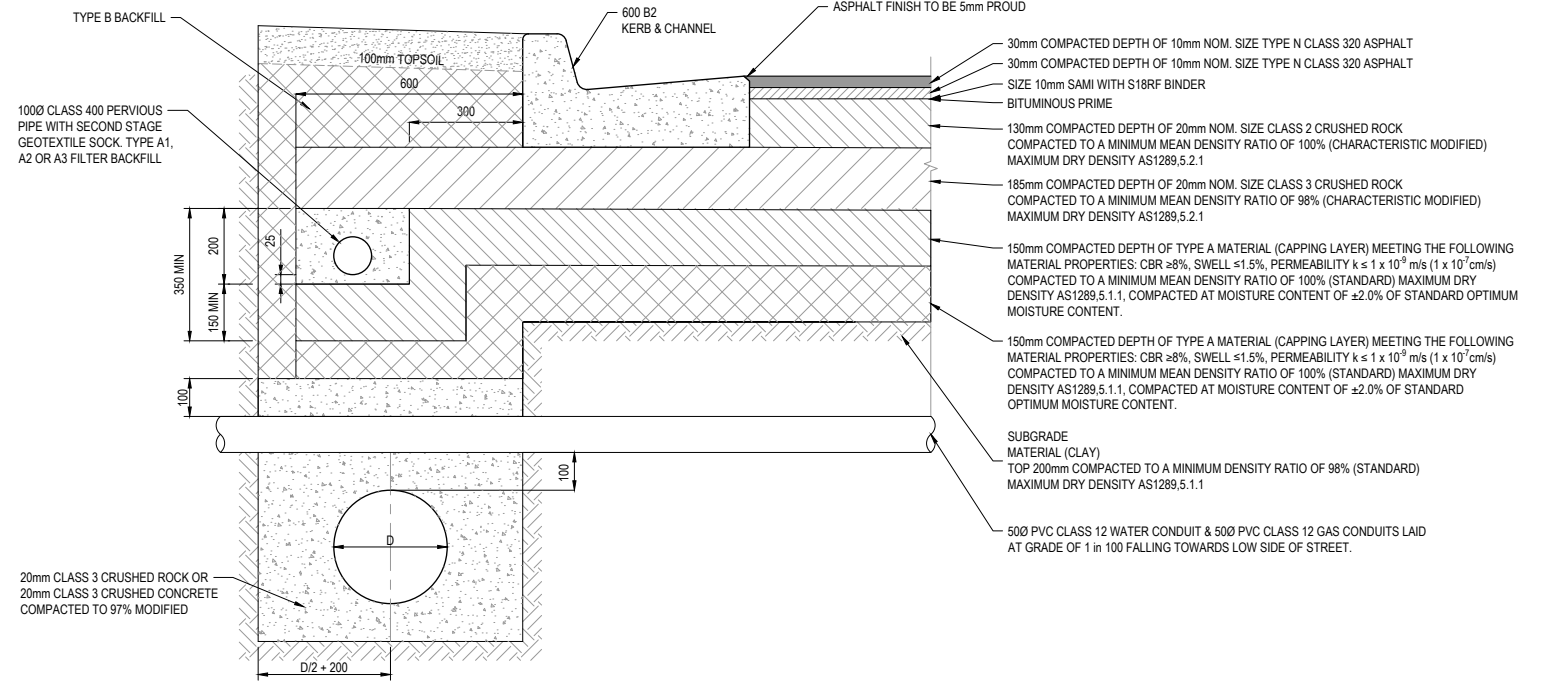
600 WIDE BARRIER KERB (600 B2) DETAIL
SCALE 1:10



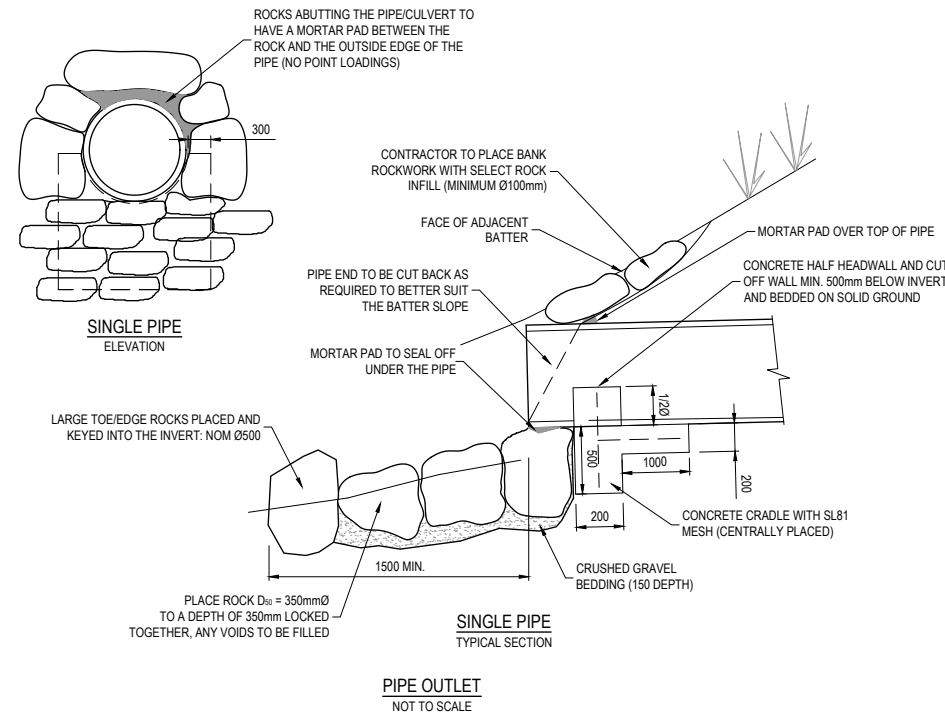
SWALE DRAIN DETAIL
NOT TO SCALE



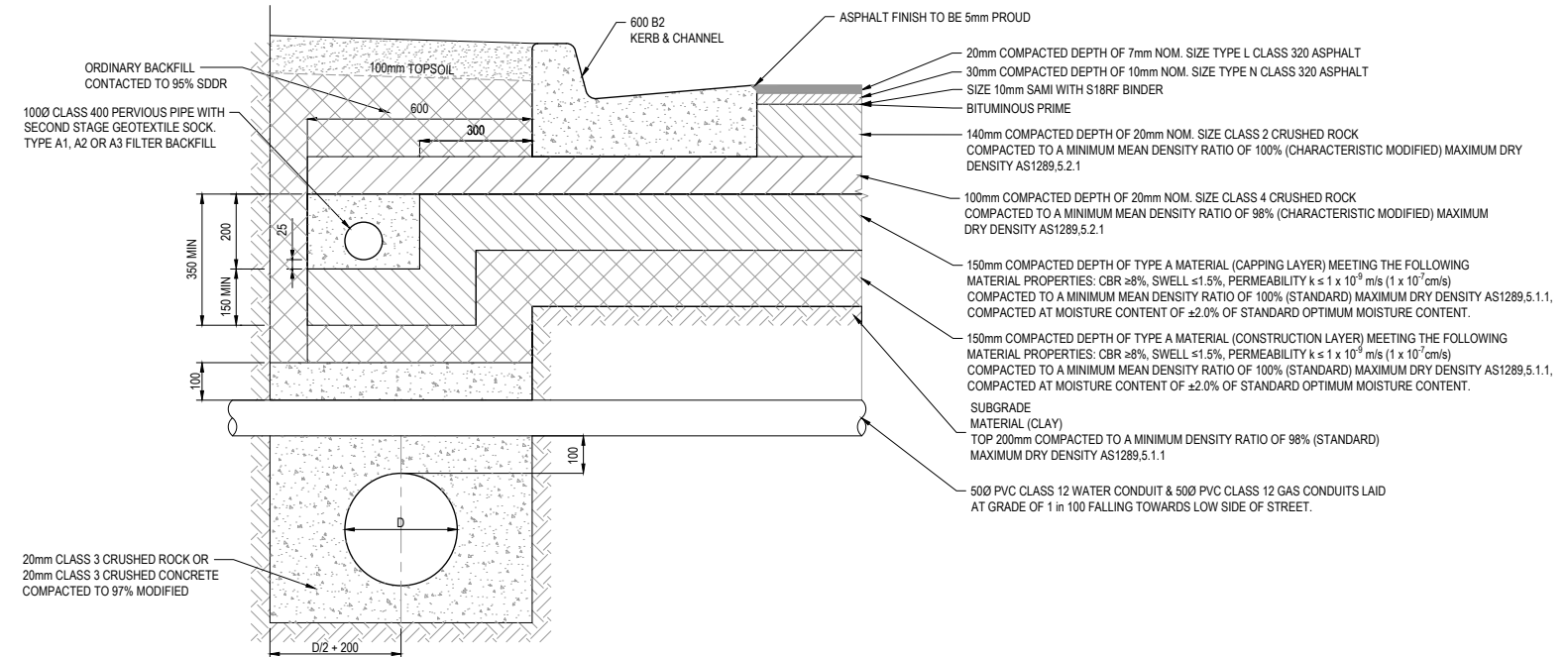
APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023



PAVEMENT COMPOSITION FOR RYNA'S WAY
675mm DEPTH
N.T.S.



PIPE OUTLET
NOT TO SCALE



PAVEMENT COMPOSITION FOR MAN DRIVE & BUD STREET
590mm DEPTH
N.T.S.

ISSUED
FOR CONSTRUCTION

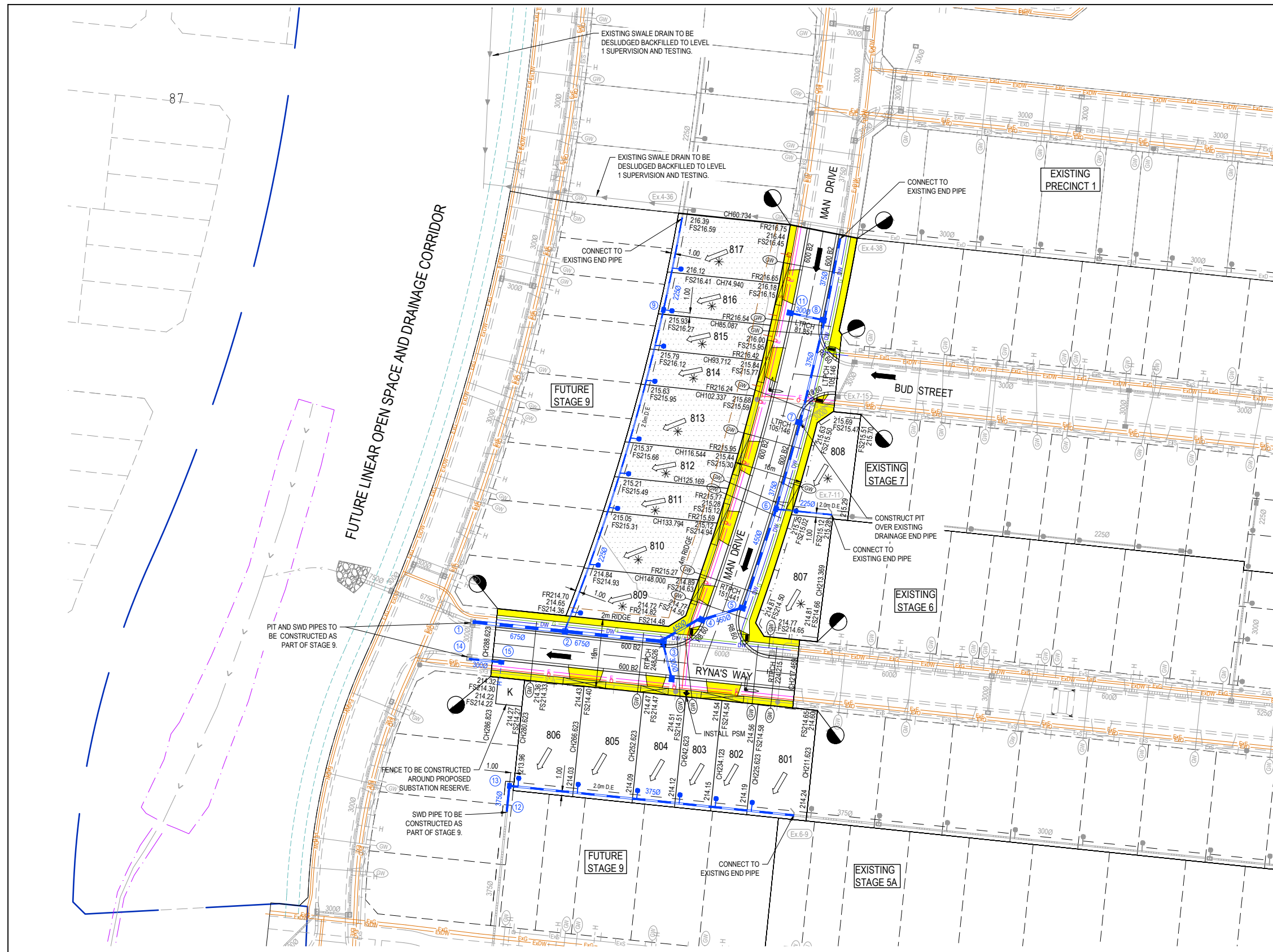
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A	ISSUED FOR CONSTRUCTION	01.09.23	D.Z.	S.M.		
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Project Details	DAVIS VINEYARD PRECINCT 2 - STAGE 8 AUST. INVESTMENT & DEVELOPMENT P/L CITY OF MELTON
Drawing Title	TYPICAL ROAD CROSS SECTIONS AND PAVEMENT MAKEUP & GENERAL DETAILS

Sheet	02 of 12
Scale	NOT TO SCALE
Project Ref	1600059
Stage No	08
Drawing No	002
Rev	A



LEGEND - FUNCTIONAL LAYOUT PLAN

- ELECTRICITY (UNDERGROUND)
- OPTIC FIBRE
- TELECOMMUNICATION
- GAS
- WATER
- RECYCLED WATER
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- 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 SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- RIDGE LINE

CITY OF MELTON

**APPROVED
DETAILED ENGINEERING PLANS**
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023

- NOTES**
- ALL SERVICES SHOWN ARE PRELIMINARY AND SUBJECT TO AUTHORITY ADVICE & DETAILED DESIGN.
 - EXISTING SERVICES SHOWN ARE INDICATIVE ONLY AND TO BE VERIFIED PRIOR TO DETAILED DESIGN AND CONSTRUCTION.
 - ALL EXISTING SERVICES UNDER NEW PAVEMENTS AND CONCRETE WORKS TO BE FCR BACKFILLED, UNLESS OTHERWISE SPECIFIED.
 - ALL EXISTING DRAINAGE PITS AND SEWER MH WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISH SURFACE.
 - ALL EXISTING OPEN DRAINS WITHIN NEW WORKS TO BE CLEANED, DE-SLUDGED AND BACKFILLED TO LEVEL 1 SUPERVISION.

SERVICE OFFSET TABLE

Location	Gas		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
RYNA'S WAY	N	2.10	N	2.60	S	2.60	S	1.90	N/S	1.00
BUD STREET	N	2.10	N	2.60	S	2.60	S	1.90	N/S	1.00
MAN DRIVE	E	2.10	E	2.60	W	2.60	W	1.90	W	1.00

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

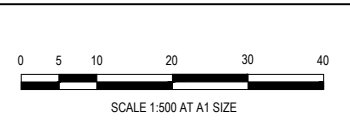
ROAD LAYOUT TABLE

Road Name	Road Classification	Reserve Width (m)	Road Width (m)			Kerb Type		Verge Width (m)	
			Lip to Lip	Inv to Inv	Back to Back	Nth/West	Sth/East	Nth/West	Sth/East
RYNA'S WAY	ACCESS STREET 1	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20
BUD STREET	ACCESS STREET 1	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20
MAN DRIVE	ACCESS STREET 1	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50

ISSUED FOR CONSTRUCTION

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A	ISSUED FOR CONSTRUCTION	01.09.23	D.Z.	S.M.					



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Date: 26.04.2022
Drawn: D. ZHANG
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Reg. No.: PS0007956
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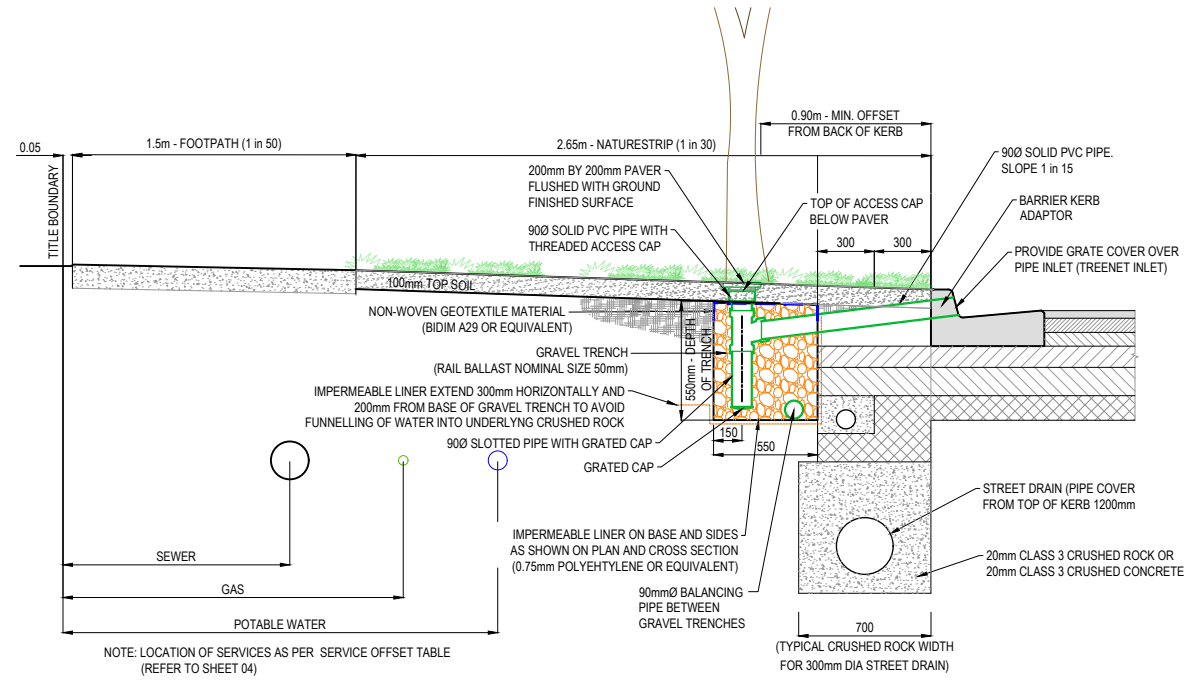
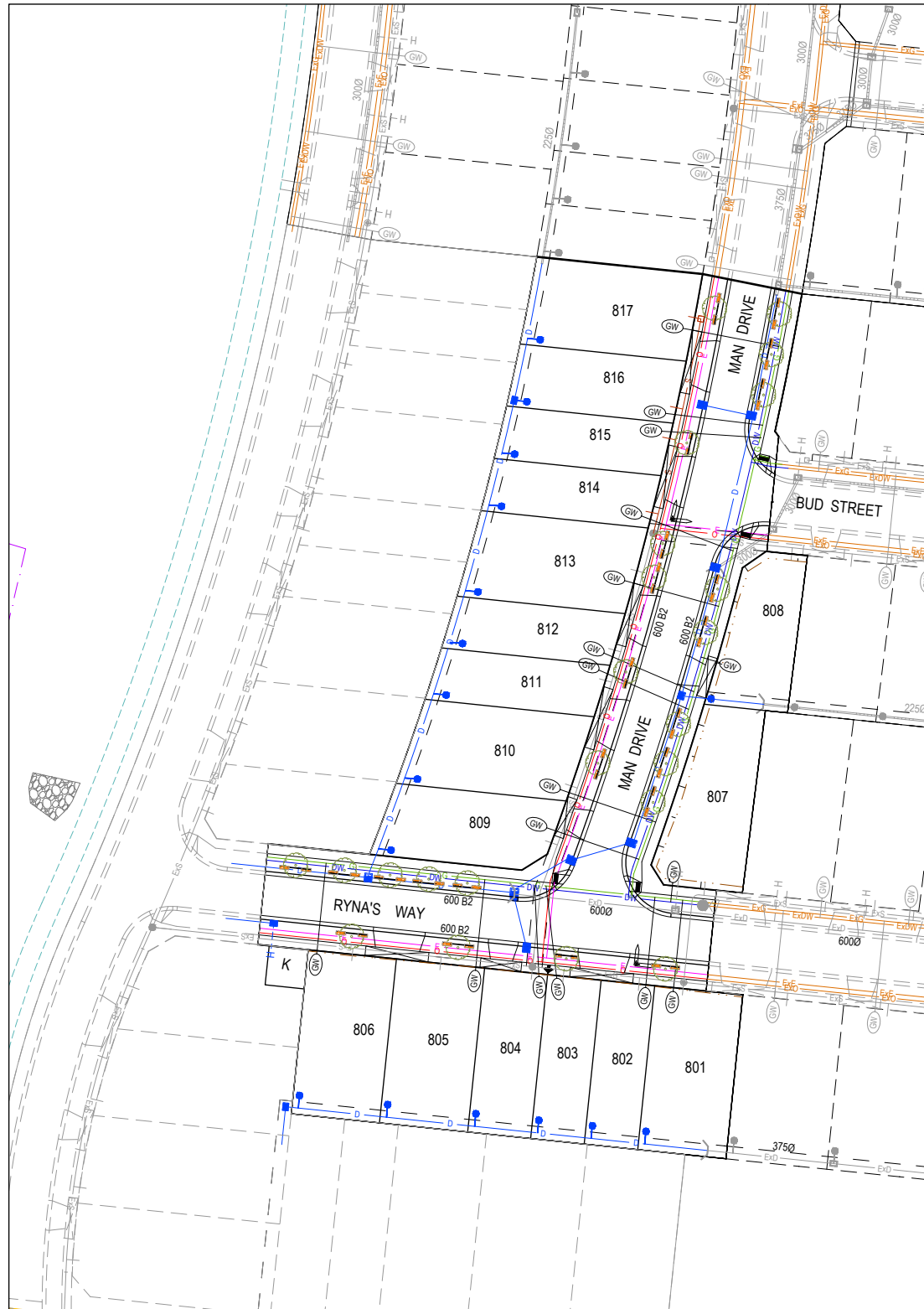
Project Details
DAVIS VINEYARD PRECINCT 2 - STAGE 8
AUST. INVESTMENT & DEVELOPMENT P/L
CITY OF MELTON

Drawing Title
LAYOUT PLAN

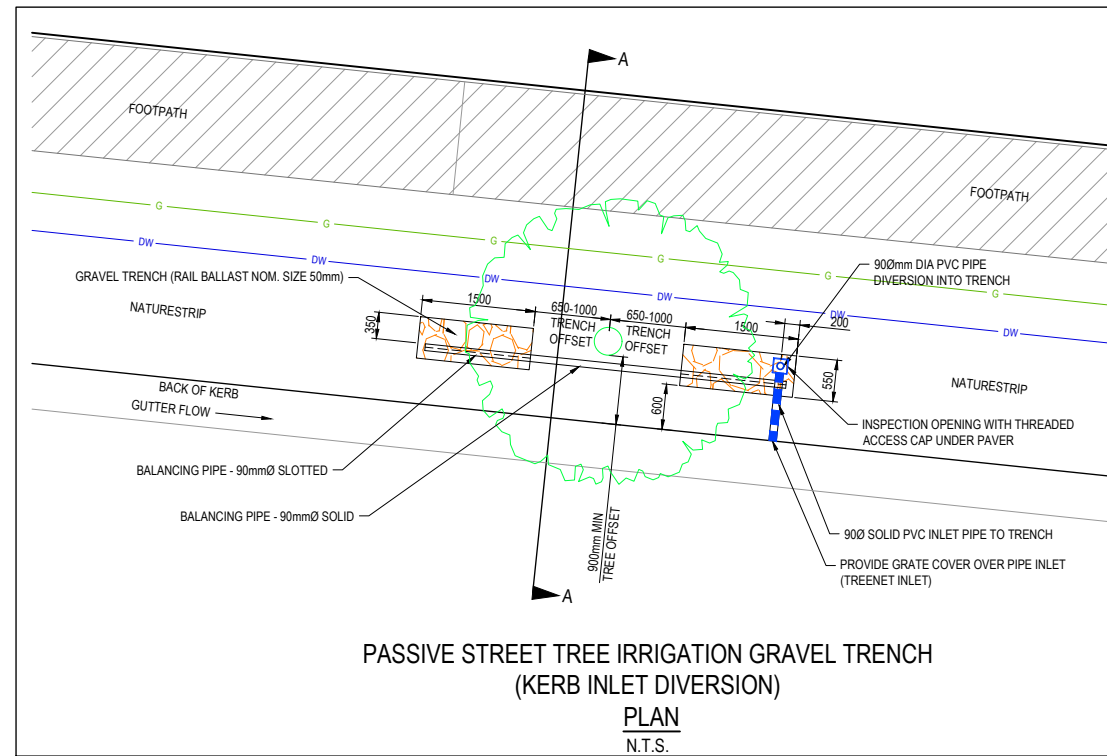
Sheet **03** of 12

Scale
1:500 @ A1

Project Ref: **1600059** Stage No: **08** Drawing No: **010** Rev: **A**



**PASSIVE STREET TREE IRRIGATION GRAVEL TRENCH
(KERB INLET DIVERSION)
CROSS SECTION A-A
N.T.S.**



**PASSIVE STREET TREE IRRIGATION GRAVEL TRENCH
(KERB INLET DIVERSION)
PLAN
N.T.S.**

LEGEND - LAYOUT PLAN

- D — STORMWATER DRAIN, PIT & PROPERTY INLET
- S — SEWER & MAINTENANCE STRUCTURES
- H — HOUSE DRAIN
- GW — SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- E — ELECTRICITY (UNDERGROUND)
- OH E — ELECTRICITY (OVERHEAD)
- O — OPTIC FIBRE
- T — TELECOMMUNICATIONS
- G — GAS
- DW — WATER
- NDW — RECYCLED WATER
- ExE — EXISTING ELECTRICITY (UNDERGROUND)
- ExOH E — EXISTING ELECTRICITY (OVERHEAD)
- ExG — EXISTING GAS
- ExO — EXISTING OPTIC FIBRE
- ExT — EXISTING TELECOMMUNICATIONS
- ExDW — EXISTING WATER
- ExNDW — EXISTING RECYCLED WATER
- Ex D — EXISTING STORMWATER DRAIN
- Ex S — EXISTING SEWER
- Ex H — EXISTING HOUSE DRAIN
- Ex — EXISTING SWALE DRAIN
- RIDGE LINE
- RETAINING WALL
- ZERO LOT LINES
- DIRECTION OF FALL
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- PASSIVE STREET TREE IRRIGATION GRAVEL TRENCH
- PROPOSED TREE

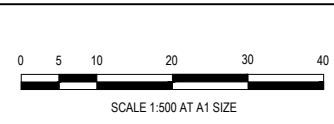
CITY OF MELTON

**APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023**

- NOTES:**
1. AT HIGHLY CONSTRAINED SITES, GRAVEL TRENCHES CAN BE MODIFIED IN THE FOLLOWING WAYS:
 - REDUCED OFFSET OF 0.75m FROM TREE CENTRELINE
 - DIMENSION 1.0m LONG x 0.6m WIDE x 0.75m DEEP
 - NATURESTRIP ≤ 2.5m DIMENSION CAN BE 1.5m LONG x 0.4m WIDE x 0.75m DEEP
 2. PASSIVE IRRIGATION PLANS TO BE READ IN CONJUNCTION WITH LANDSCAPE PLANS.

**ISSUED
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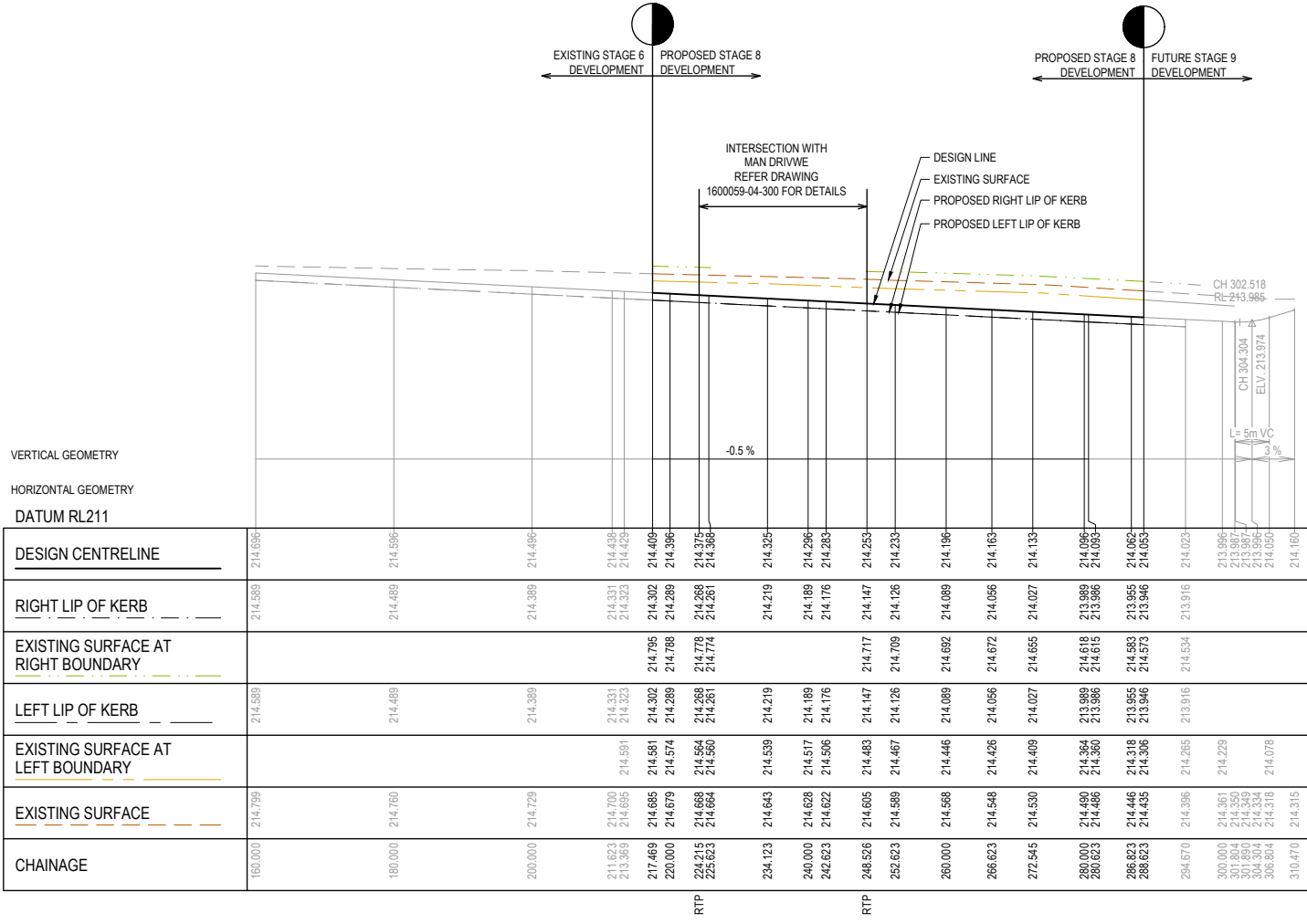
Drawing Title: INTEGRATED WATER MANAGEMENT PLAN

Sheet 04 of 12		
Scale 1:500 @ A1		
Project Ref 1600059	Stage No 08	Drawing No 011
		Rev A

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APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023

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

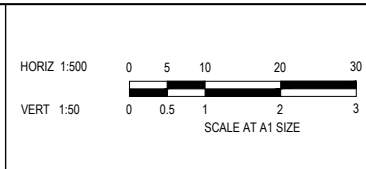


	160.000	180.000	200.000	211.623	213.669	217.469	220.000	224.215	225.623	234.123	240.000	242.623	248.526	252.623	260.000	266.623	272.545	280.000	286.623	288.623	294.670	300.000	301.660	304.304	306.004	310.670	
DESIGN CENTRELINE	214.696	214.596	214.496	214.331	214.229	214.009	214.396	214.375	214.368	214.325	214.296	214.283	214.253	214.233	214.196	214.163	214.133	214.096	214.055	214.055	214.023	213.986	213.987	213.987	213.987	214.059	
RIGHT LIP OF KERB	214.589	214.489	214.389	214.323	214.323	214.302	214.289	214.268	214.261	214.219	214.189	214.176	214.147	214.126	214.089	214.056	214.027	213.989	213.966	213.946	213.916	213.889	213.889	213.889	213.889	214.059	
EXISTING SURFACE AT RIGHT BOUNDARY						214.795	214.788	214.778	214.774				214.717	214.709	214.692	214.672	214.655	214.618	214.619	214.595	214.573	214.534					
LEFT LIP OF KERB	214.589	214.489	214.389	214.331	214.323	214.302	214.289	214.268	214.261	214.219	214.189	214.176	214.147	214.126	214.089	214.056	214.027	213.989	213.966	213.946	213.916	213.889	213.889	213.889	213.889	214.059	
EXISTING SURFACE AT LEFT BOUNDARY				214.591	214.574	214.574	214.564	214.560	214.539	214.517	214.506	214.483	214.467	214.446	214.426	214.409	214.384	214.360	214.318	214.306	214.285	214.229					
EXISTING SURFACE	214.799	214.760	214.729	214.700	214.695	214.679	214.664	214.664	214.643	214.628	214.622	214.605	214.589	214.568	214.548	214.530	214.490	214.480	214.466	214.435	214.396	214.361	214.350	214.349	214.334	214.316	214.315
CHAINAGE	160.000	180.000	200.000	211.623	213.669	217.469	220.000	224.215	225.623	234.123	240.000	242.623	248.526	252.623	260.000	266.623	272.545	280.000	286.623	288.623	294.670	300.000	301.660	304.304	306.004	310.670	

RYNA'S WAY LONGITUDINAL SECTION

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Designed: D. ZHANG
 Date: 26.04.2022
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 Checked: R. WICKETT
 Date: 27.06.2022
 Approved: L. TRAHAN
 Reg. No: P50007696
 Date: 31.08.2023
 PS Number: PS 822978N/S4

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Project Details
DAVIS VINEYARD PRECINCT 2 - STAGE 8
AUST. INVESTMENT & DEVELOPMENT P/L
CITY OF MELTON

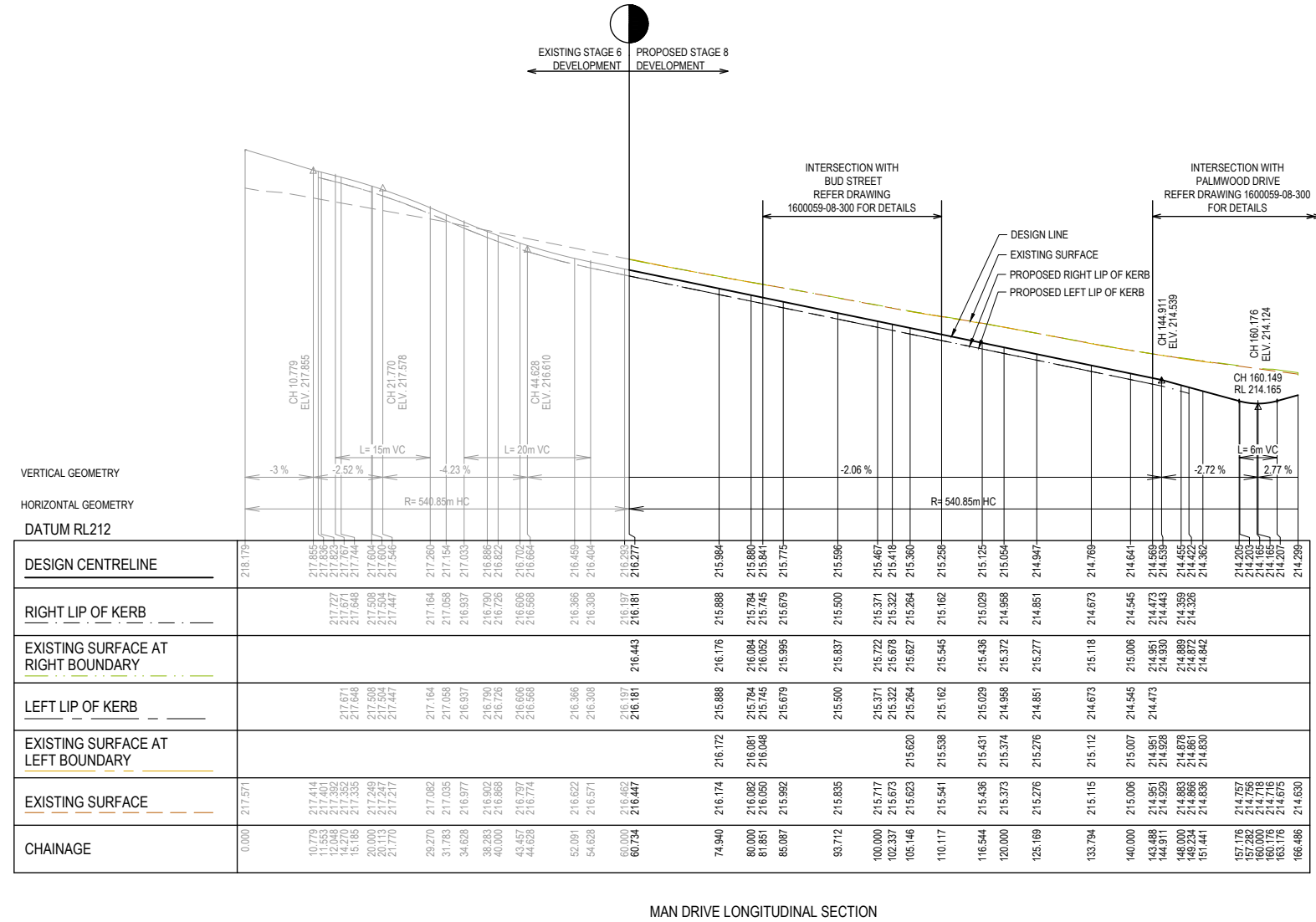
Drawing Title
ROAD LONGITUDINAL SECTION
RYNA'S WAY

Sheet 05 of 12	
Scale 1:500 H 1:50 V @ A1	
Project Ref	Stage No
1600059	08
Drawing No	Rev
100	A

K:\Jobs Data\1600059 Diggers Rest_Eng\Precinct 2\Stage 8\Drawings\1600059-08-100-RLS.dwg



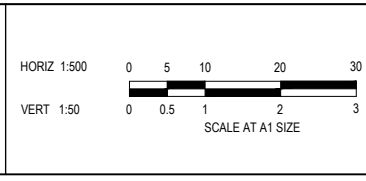
**APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023**



MAN DRIVE LONGITUDINAL SECTION

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REV	DESCRIPTION	DATE	DRN	APP	APP
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Date: 27.06.2022
Approved: L. TRAHAN
Reg. No: P5007936
Date: 31.08.2023
PS Number: PS 822978N/S4

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Project Details
DAVIS VINEYARD PRECINCT 2 - STAGE 8
AUST. INVESTMENT & DEVELOPMENT P/L
CITY OF MELTON

Drawing Title
ROAD LONGITUDINAL SECTION
MAN DRIVE

Sheet	06 of 12
Scale	1:500 H 1:50 V @ A1
Project Ref	1600059
Stage No	08
Drawing No	101
Rev	A

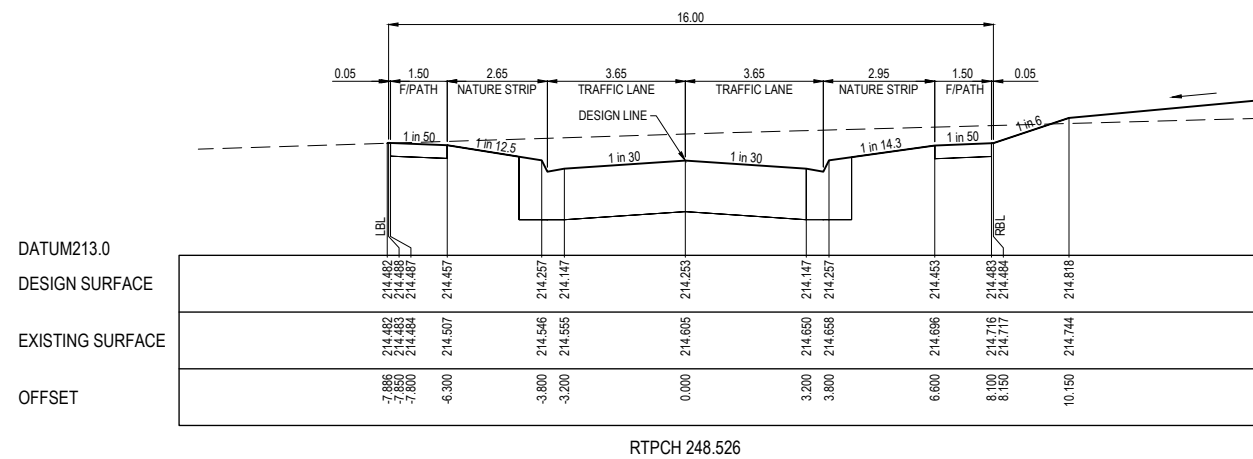
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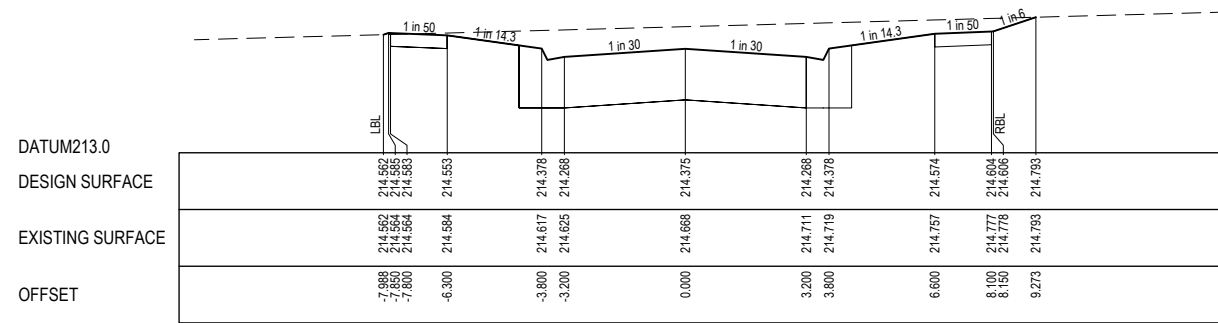
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DETAILED ENGINEERING PLANS
 Nihal Jayasekara
 ENGINEERING SERVICES
 Date: 04/09/2023

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE

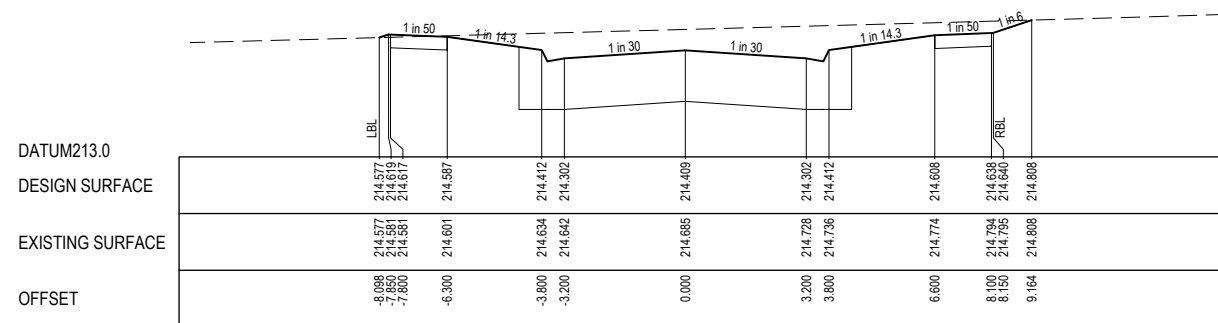
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION



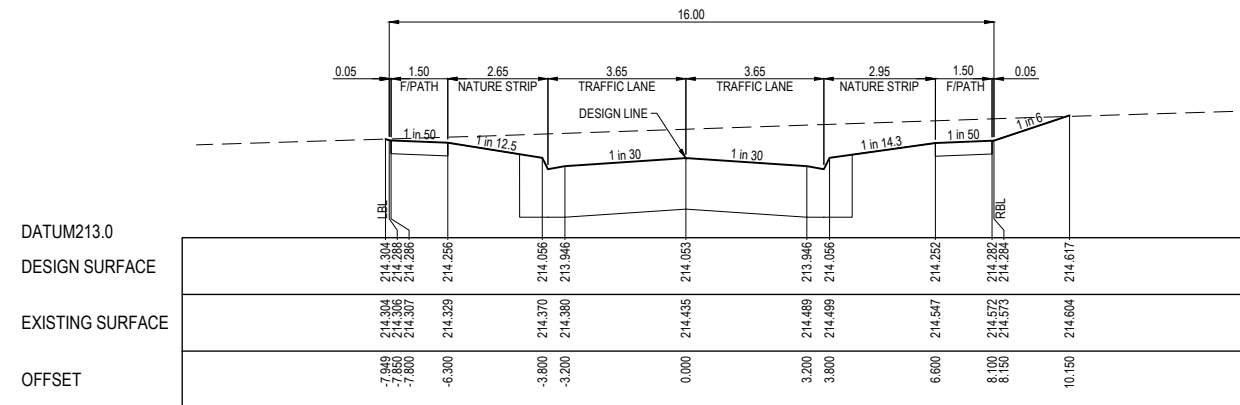
RTPCH 248.526



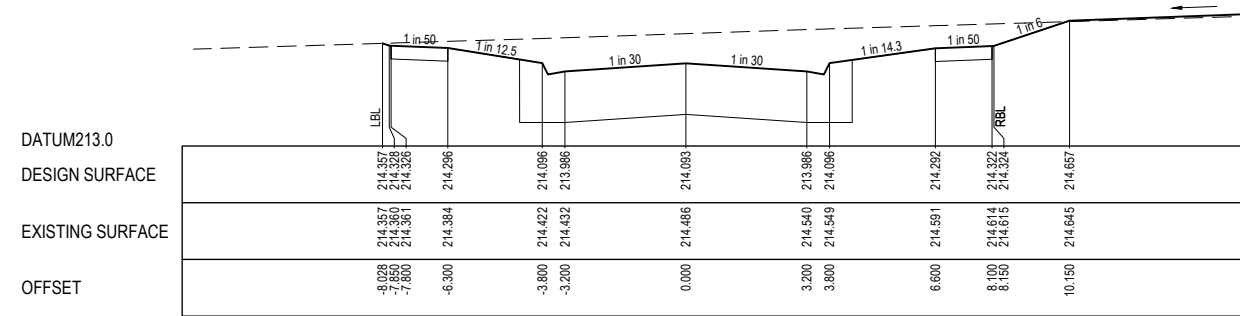
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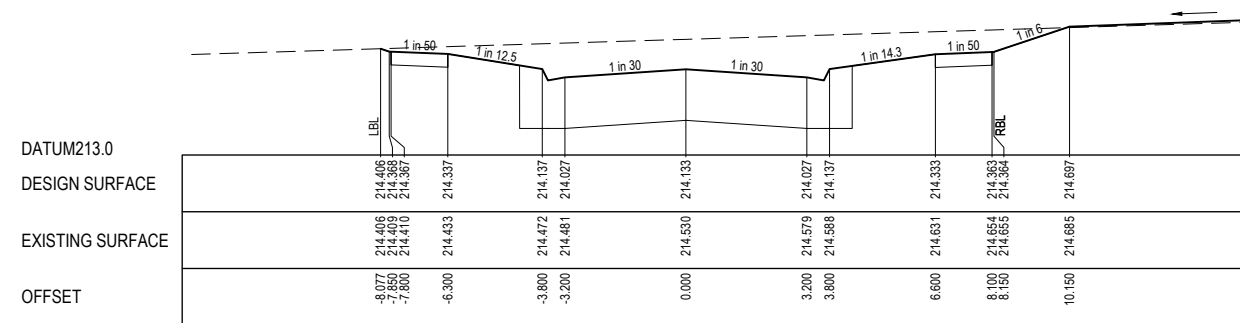
CH 217.469



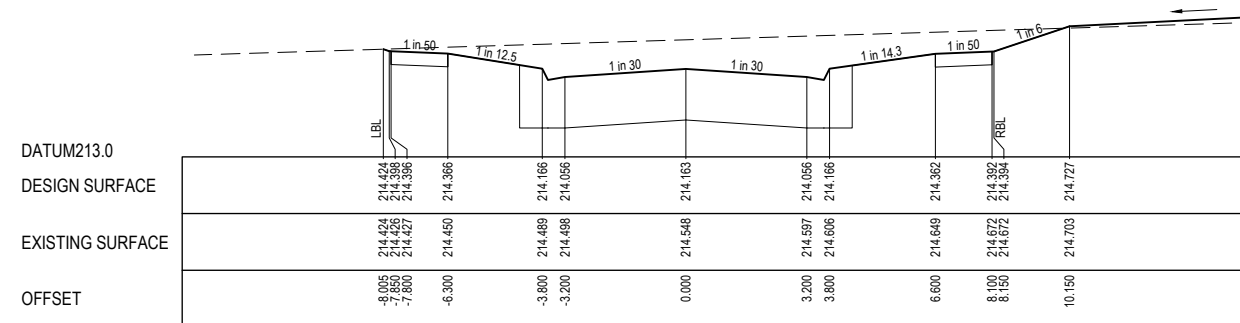
CH 288.623 (LIMIT OF WORKS)



CH 280.623



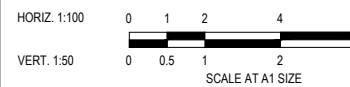
CH 272.545



CH 266.623

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Date	26.04.2022
Drawn	D. ZHANG
Checked	R. WICKETT
Date	27.05.2022
Approved	L. TRAHAN
Reg. No.	PS0007958
Date	31.08.2023
PS Number	PS 822978N/S4

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Project Details	DAVIS VINEYARD PRECINCT 2 - STAGE 8 AUST. INVESTMENT & DEVELOPMENT P/L CITY OF MELTON
Project Title	ROAD CROSS SECTIONS RYNA'S WAY

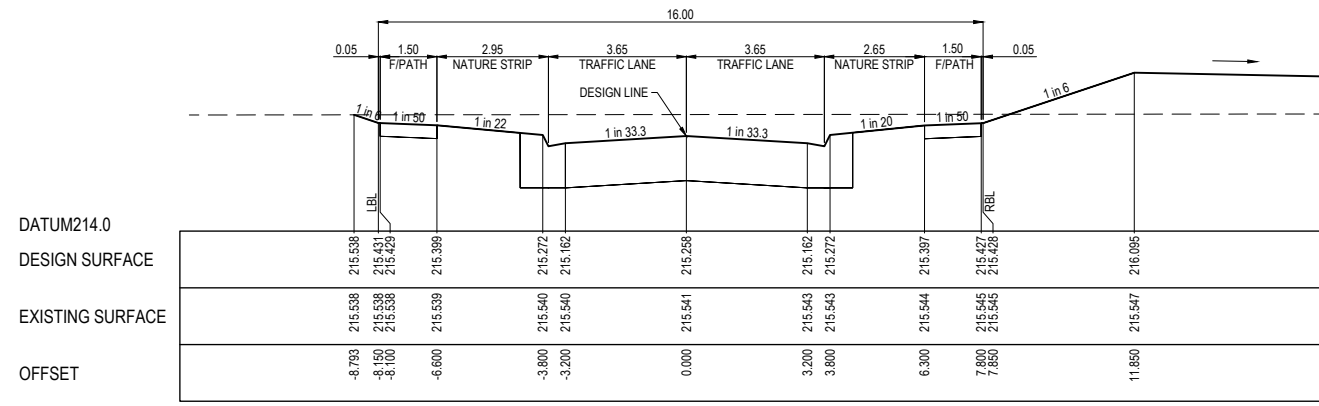
Sheet	07 of 12
Scale	1:100 H 1:50 V @ A1
Project Ref	1600059
Stage No	08
Drawing No	200
Rev	A

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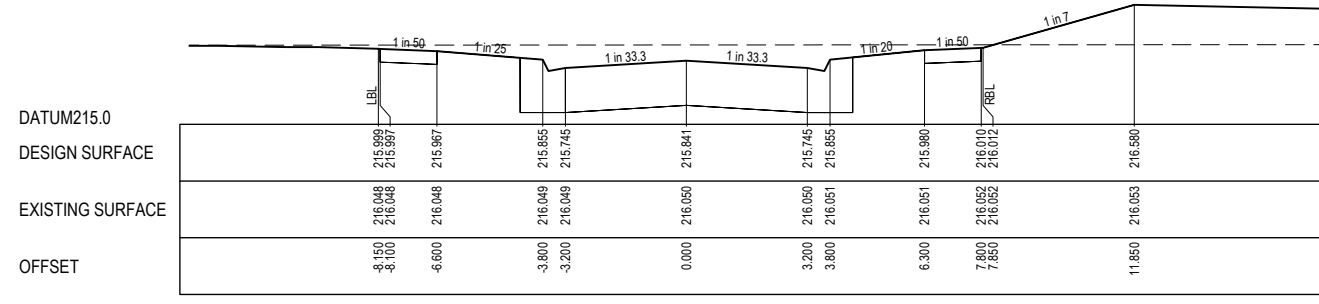

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DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023

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

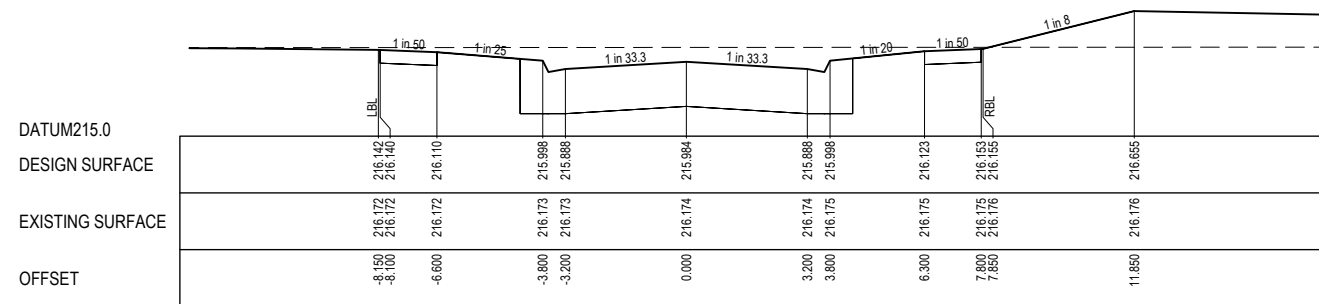
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



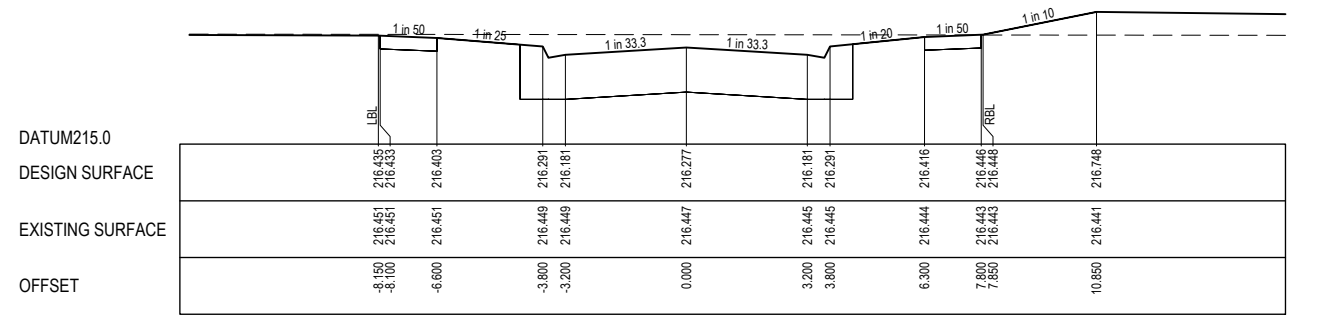
CH 110.117



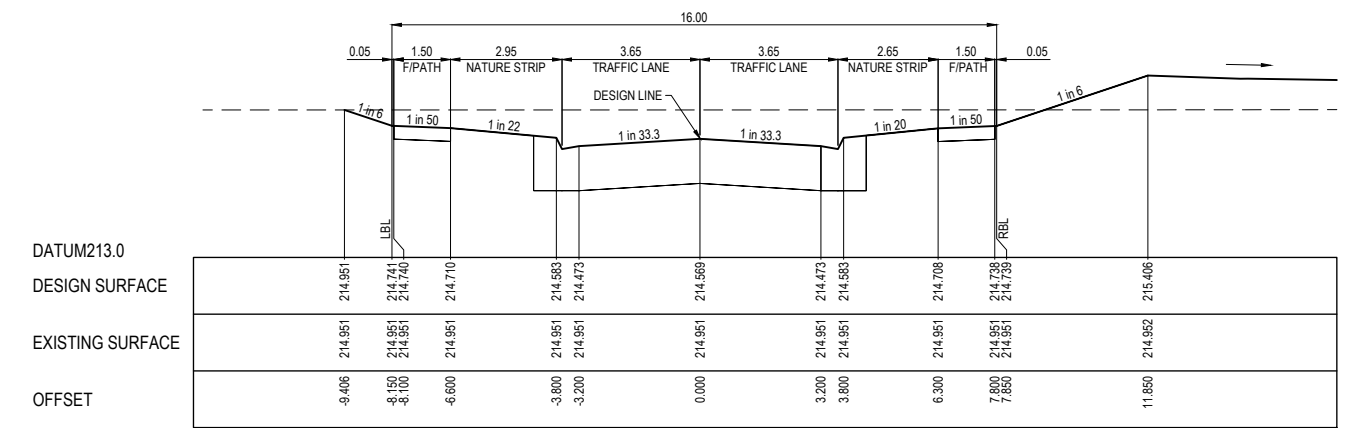
LTPCH 81.851



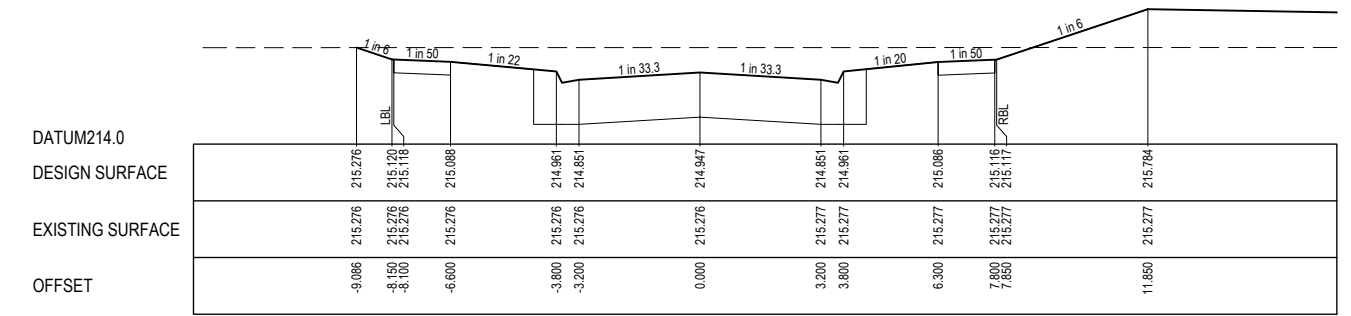
CH 74.940



CH 60.734



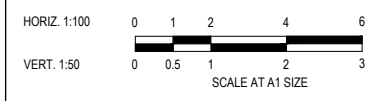
CH 143.488



CH 125.169

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A	ISSUED FOR CONSTRUCTION	01.09.23	D.Z.	S.M.					



Designed: D. ZHANG
 Date: 26.04.2022
 Drawn: D. ZHANG
 Checked: R. WICKETT
 Date: 27.06.2022
 Approved: L. TRAHAN
 Reg. No.: PS0007956
 Date: 31.08.2023
 PS Number: PS 822978N/S4


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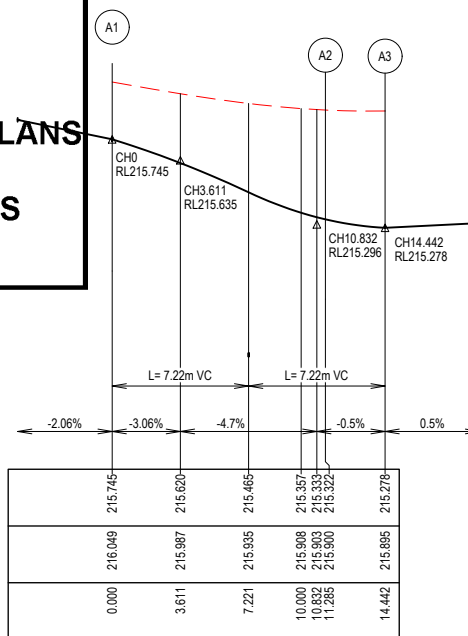
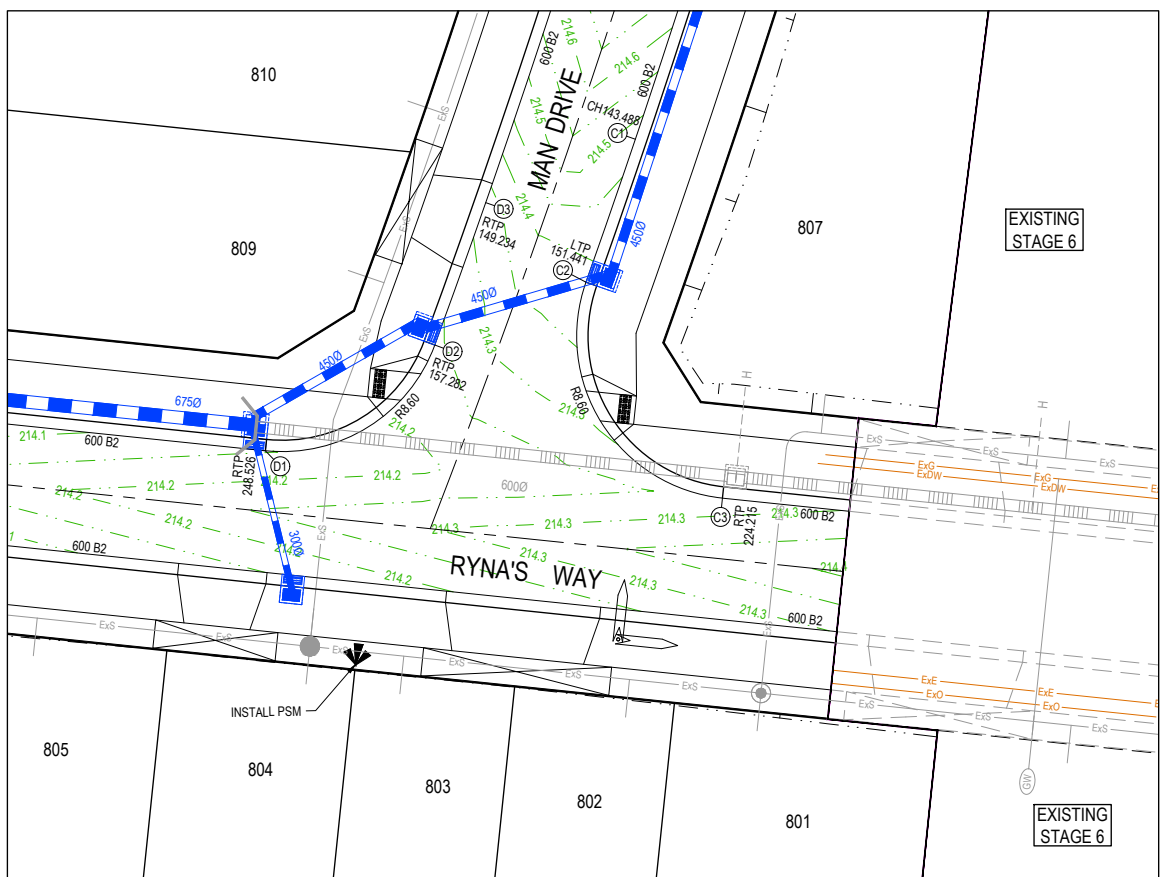
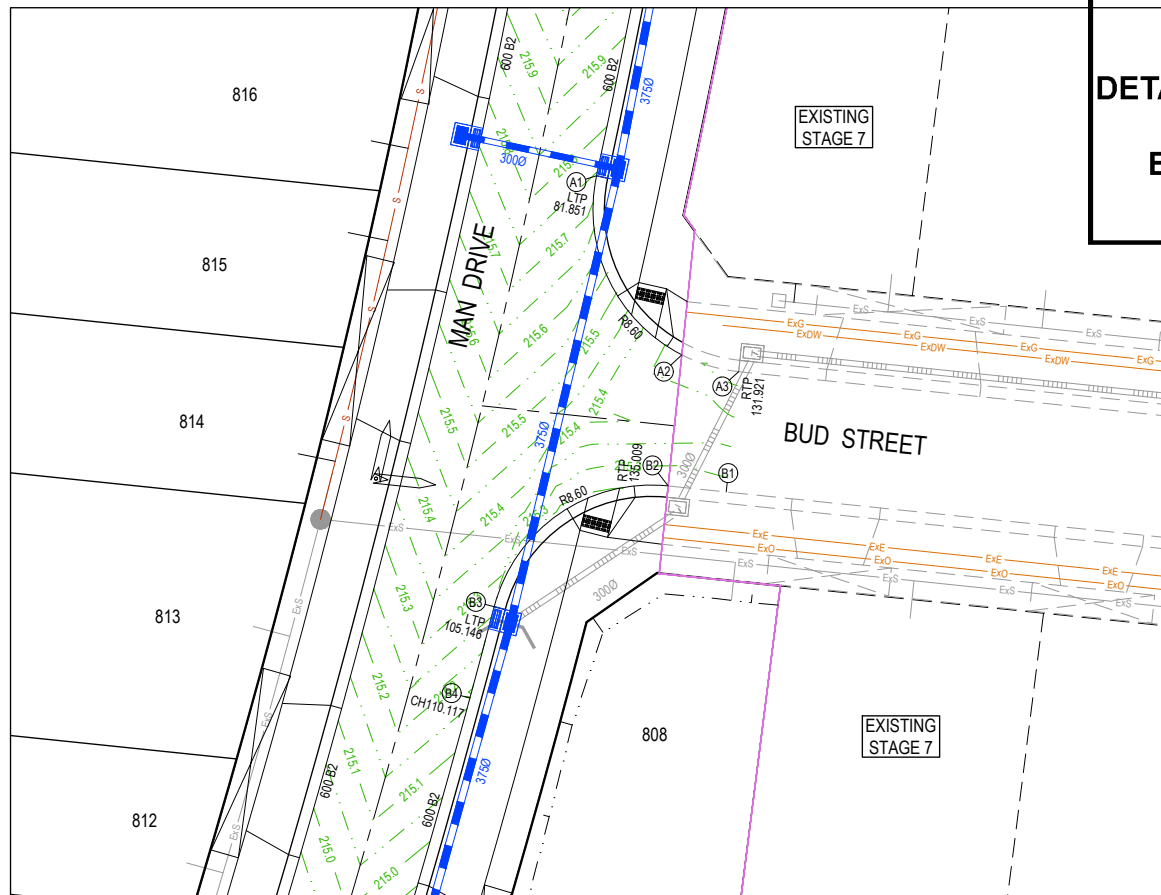
Project: DAVIS VINEYARD PRECINCT 2 - STAGE 8
 AUST. INVESTMENT & DEVELOPMENT P/L
 CITY OF MELTON
 Drawing Title: ROAD CROSS SECTIONS
 MAN DRIVE

Sheet	08 of 12
Scale	1:100 H 1:50 V @ A1
Project Ref	1600059
Stage No	08
Drawing No	201
Rev	A

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ENGINEERING SERVICES
Date: 04/09/2023

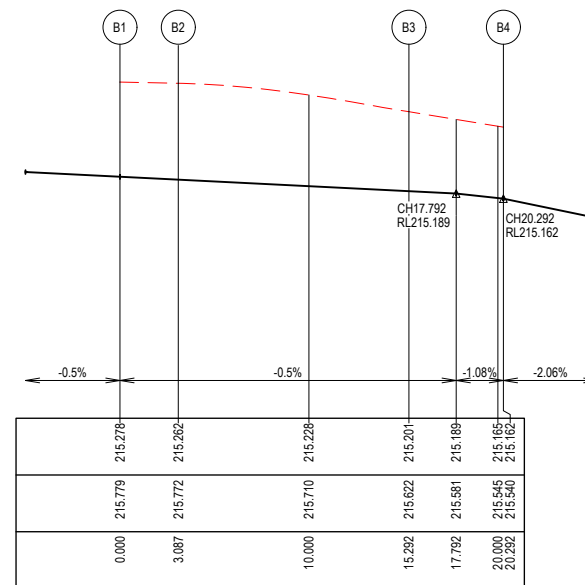


LIP LINE A

ALIGNMENT A

Point no	Easting	Northing	RL
A1	296867.218	5834147.499	215.745
A2	296871.728	5834138.025	215.322
A3	296874.740	5834137.137	215.278

Curve no	I	Radius	Arc	A	B	X	Y	L	Mid point RL
A1 - A2	75.182	8.600	11.285	1.785	1.327	2.771	2.475	2.821	215.536
A2 - A3	21.037	8.600	3.158	0.145	0.108	0.788	0.782	0.789	215.293

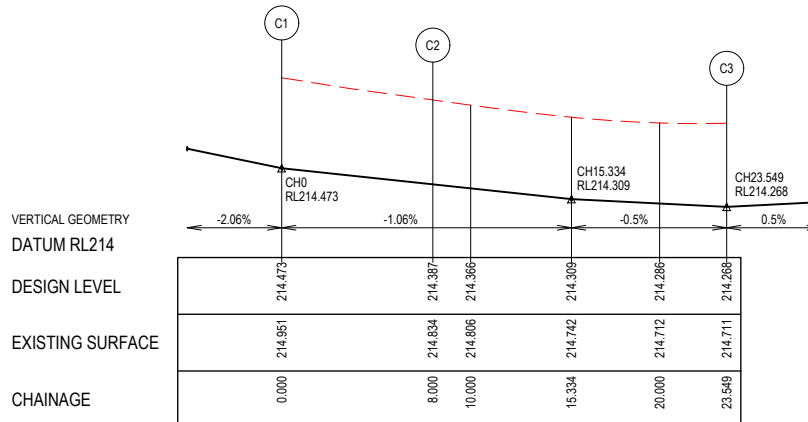


LIP LINE B

ALIGNMENT B

Point no	Easting	Northing	RL
B1	296874.080	5834130.771	215.278
B2	296871.009	5834131.089	215.262
B3	296861.801	5834124.703	215.201
B4	296860.518	5834119.870	215.162

Curve no	I	Radius	Arc	A	B	X	Y	L	Mid point RL
B2 - B3	81.313	8.600	12.205	2.076	1.540	2.988	2.615	3.051	215.232
B3 - B4	0.527	544.050	5.000	0.006	0.004	1.250	1.250	1.250	215.189

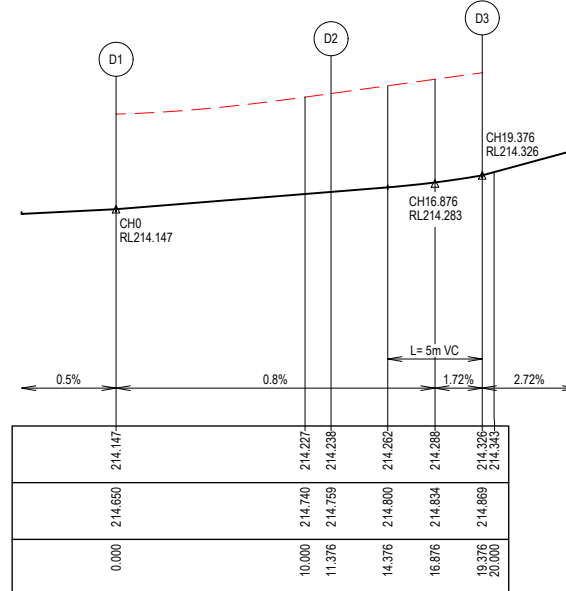


LIP LINE C

ALIGNMENT C

Point no	Easting	Northing	RL
C1	296850.763	5834087.755	214.473
C2	296848.147	5834080.195	214.387
C3	296855.367	5834068.769	214.288

Curve no	I	Radius	Arc	A	B	X	Y	L	Mid point RL
C2 - C3	103.591	8.600	15.549	3.281	2.418	3.756	3.002	3.887	214.307



LIP LINE D

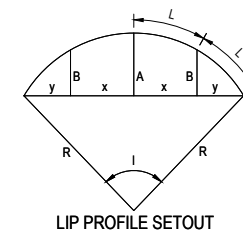
ALIGNMENT D

Point no	Easting	Northing	RL
D1	296831.185	5834071.275	214.147
D2	296840.146	5834076.870	214.238
D3	296842.843	5834084.402	214.326

Curve no	I	Radius	Arc	A	B	X	Y	L	Mid point RL
D1 - D2	75.790	8.600	11.376	1.813	1.347	2.792	2.490	2.844	214.193
D2 - D3	0.853	537.650	8.000	0.015	0.011	2.000	2.000	2.000	214.271

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



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A	ISSUED FOR CONSTRUCTION	01.09.23	D.Z.	S.M.					



Designed D. ZHANG
Date 26.04.2022
Drawn D. ZHANG
Checked R. WICKETT
Date 27.06.2022
Approved L. TRAYN
Reg. No. PS0007956
Date 31.08.2023
PS Number PS 822978N/S4

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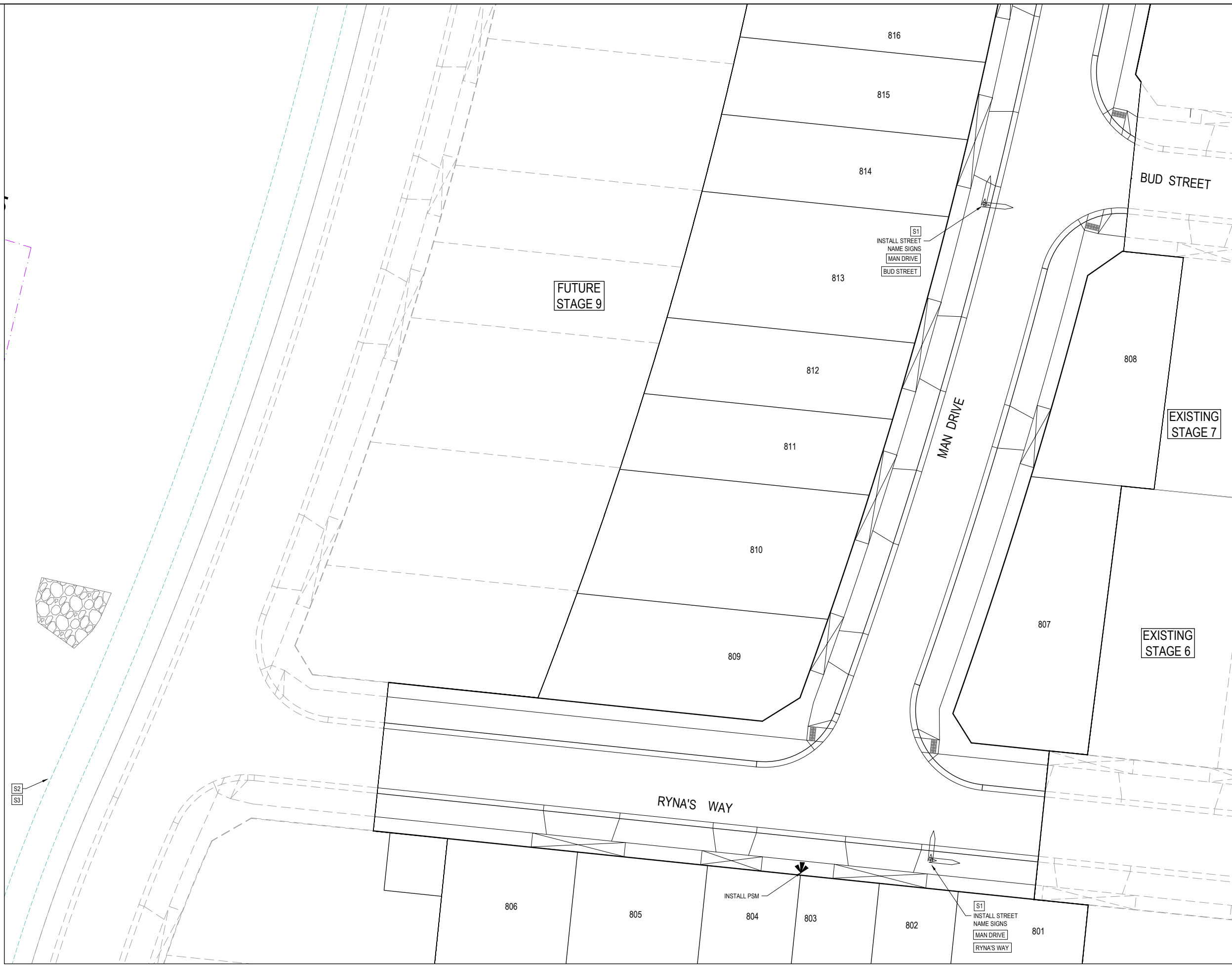
Project Details
**DAVIS VINEYARD PRECINCT 2 - STAGE 8
AUST. INVESTMENT & DEVELOPMENT P/L
CITY OF MELTON**
Drawing Title
INTERSECTION DETAILS

Sheet **09** of 12
Scale
1:200 @ A1

Project Ref Stage No Drawing No Rev
1600059 08 300 A



**APPROVED
DETAILED ENGINEERING PLANS**
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023



SIGN SCHEDULE

IDENTIFIER	NUMBER	SIGN
S1	STREET NAME SIGN	
S2	D4-5	
S3	G9-20	

SIGNS SHALL BE LOCATED SUCH THAT THE EDGE OF THE SIGN IS MINIMUM 0.5m BEHIND THE KERB INVERT.

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 VICROADS RDN 06-06 - JULY 2010
- 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.

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Approved L. TRAHAN
Reg. No. PE0007596
Date 31.08.2023
PS Number PS 822978N/S4

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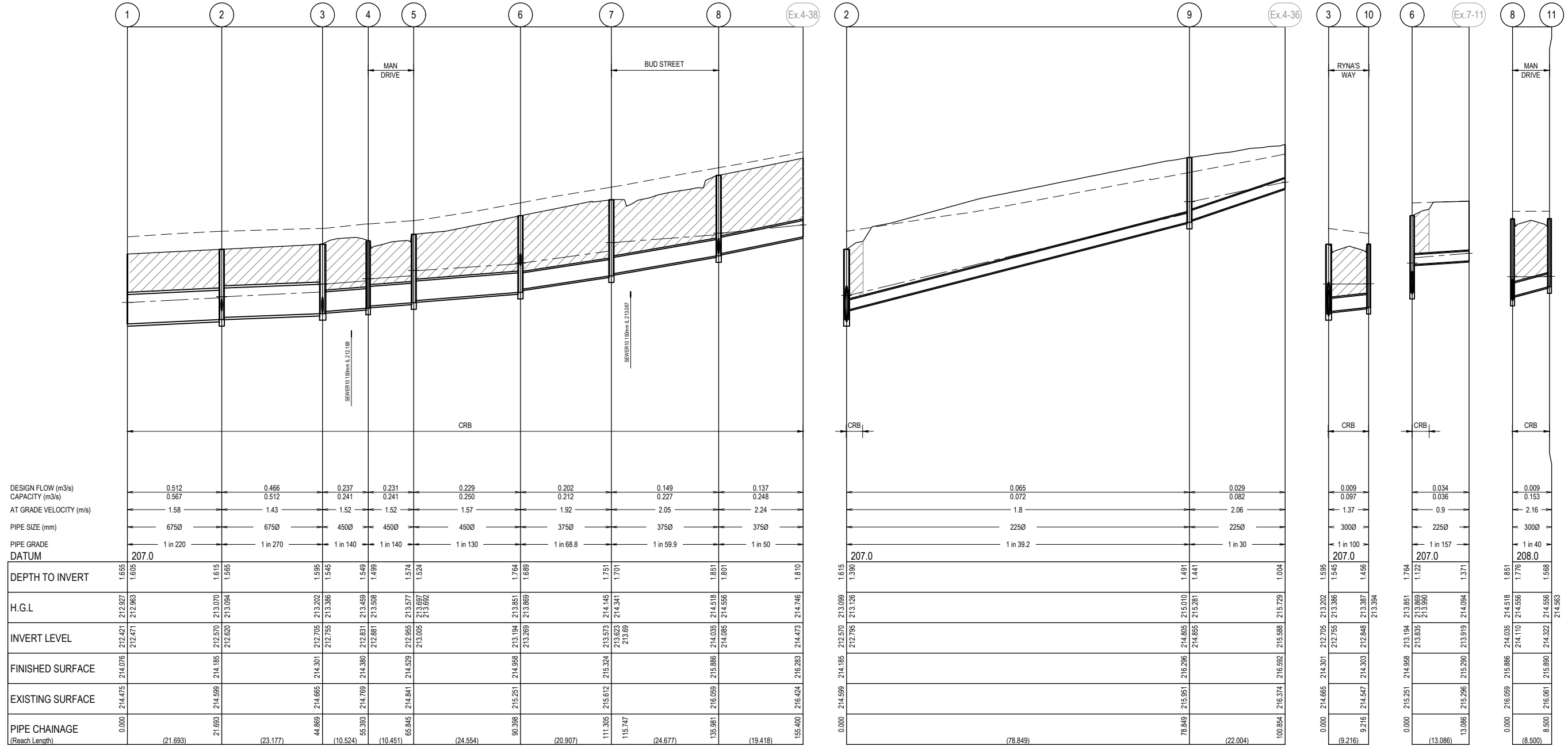
Project Details
DAVIS VINEYARD PRECINCT 2 - STAGE 8
AUST. INVESTMENT & DEVELOPMENT P/L
CITY OF MELTON
Drawing Title
SIGNAGE & LINE MARKING PLANS

Sheet	10 of 12						
Scale	1:200 @ A1						
Project Ref	1600059	Stage No	08	Drawing No	350	Rev	A


APPROVED
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Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023

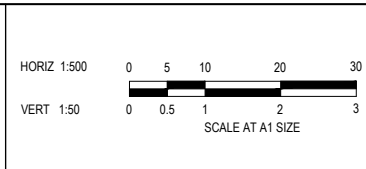
NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

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



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 Date: 27.06.2022
 Approved: L. TRAHAN
 Reg. No.: P50007936
 Date: 31.08.2023
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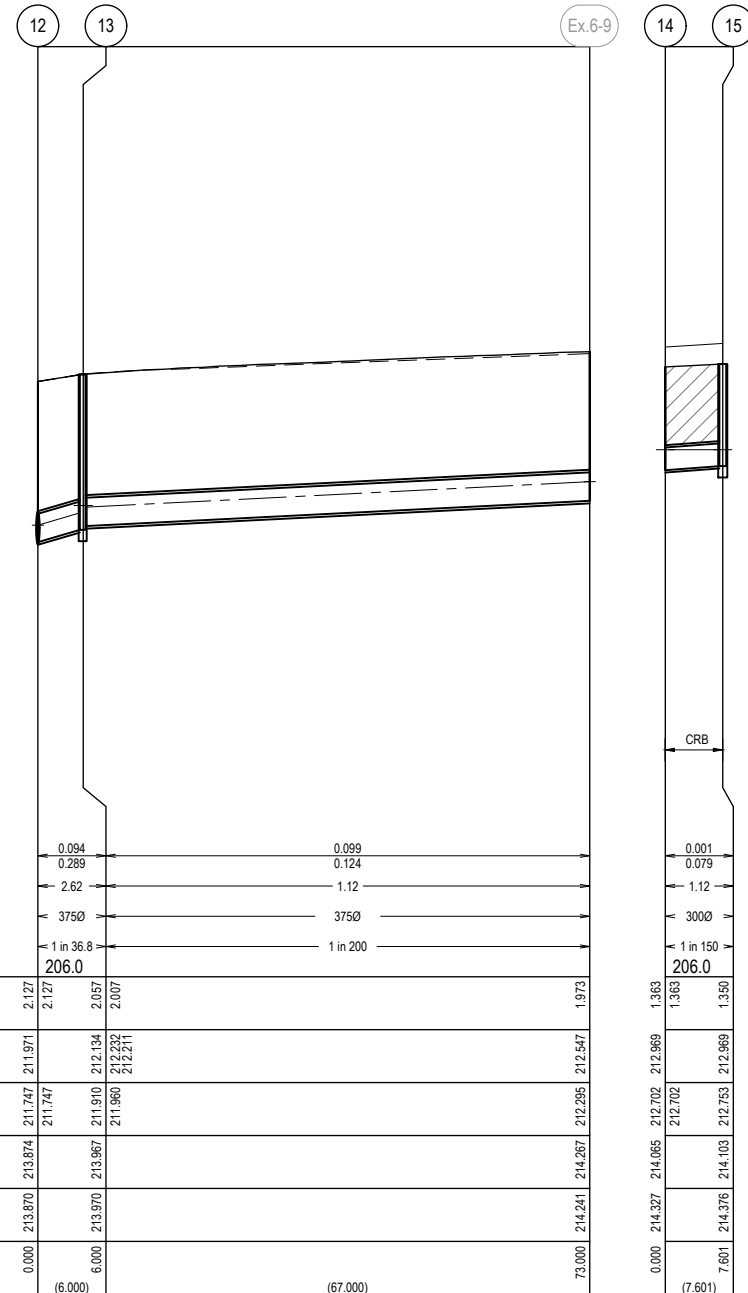
Project Details: DAVIS VINEYARD PRECINCT 2 - STAGE 8
 AUST. INVESTMENT & DEVELOPMENT P/L
 CITY OF MELTON
 Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 2)

Sheet	11 of 12
Scale	1:500 H 1:50 V @ A1
Project Ref	1600059
Stage No	08
Drawing No	400
Rev	A

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LEGEND	
---	EXISTING SURFACE
—	DESIGN SURFACE
—	DRAINAGE PIPE/PIT
---	EXISTING DRAINAGE PIPE/PIT
---	HYDRAULIC GRADE LINE


APPROVED
DETAILED ENGINEERING PLANS
Nihal Jayasekara
ENGINEERING SERVICES
Date: 04/09/2023

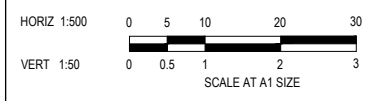


DESIGN FLOW (m ³ /s)	0.094	0.099
CAPACITY (m ³ /s)	0.289	0.124
AT GRADE VELOCITY (m/s)	2.62	1.12
PIPE SIZE (mm)	3750	3750
PIPE GRADE	1 in 36.8	1 in 200
DATUM	206.0	206.0
DEPTH TO INVERT	2.127 2.127	2.057 2.007
H.G.L	211.971 211.747	212.134 212.232 212.211
INVERT LEVEL	211.747 211.747	211.910 211.960
FINISHED SURFACE	213.874 213.874	214.267 214.267
EXISTING SURFACE	213.870 213.870	214.241 214.241
PIPE CHAINAGE (Reach Length)	0.000 (6.000)	73.000 (67.000)

DEPTH TO INVERT	1.363 1.363	1.390 1.390
H.G.L	212.702 212.702	212.969 212.969
INVERT LEVEL	212.702 212.702	212.753 212.753
FINISHED SURFACE	214.065 214.065	214.103 214.103
EXISTING SURFACE	214.327 214.327	214.376 214.376
PIPE CHAINAGE (Reach Length)	0.000 (7.601)	7.601 (7.601)

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.09.23	D.Z.	S.M.					



Designed: D. ZHANG
 Date: 26.04.2022
 Drawn: D. ZHANG
 Checked: R. WICKETT
 Date: 27.05.2022
 Approved: L. TRAHAN
 Reg. No.: PE0007596
 Date: 31.08.2023
 PS Number: PS 822978N/S4

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Project Details
DAVIS VINEYARD PRECINCT 2 - STAGE 8
AUST. INVESTMENT & DEVELOPMENT P/L
CITY OF MELTON

Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 2 OF 2)
& PIT SCHEDULE

Sheet	12 of 12
Scale	1:500 H 1:50 V @ A1
Project Ref	1600059
Stage No	08
Drawing No	401
Rev	A