

# RIVERFIELD SQUARE - STAGE 35

## BROWN PROPERTY GROUP

### CITY OF CASEY



#### 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 City of Casey 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. 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 AS2142-1992 general conditions of contract & the City of Casey current specification & standard drawings & to the satisfaction of the City of Casey 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 City of Casey 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. Opticom 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 Casey 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 (TGSi) are to be installed at all tram crossings & pedestrian cross points in accordance with AS1428.4.1: 2009.4 & VicRoads Supplementary Standard TEM Vol 2 Part 2.2.3. Product must be DTP approved in accordance with DTP RDN 06-05. Adhesive TGSi must not be used.

##### 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 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. 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 Casey works supervisor.

##### COUNCIL

- F1. As constructed plans and electronic asset information in D-Spec and R-Spec format must be submitted to Council prior to practical completion.
- F2. A CCTV report must be provided for all drainage lines prior to issue of practical completion.
- F3. Street lighting must be provided on all newly created roads and reserves including all intersections, speed humps and LTM devices in accordance with the approved public lighting plan.
- F4. A traffic management plan (TMP) must be submitted to, and approved by Council prior to the commencement of any works on site and all traffic management must be carried out in accordance with this TMP.

##### Survey Origin:

Coordinates are on a local plane datum based upon MGA Zone 55 bearings and truncated MGA Zone 55 co-ordinates at PM103 (CRANBOURNE).  
 Heights are to AHD vide Permanent Mark PM 52 (SHERWOOD) RL 8.611.

Plane Grid Coordinates to MGA2020 Zone 55 Grid Coordinates Conversion.  
 (PLANE SHIFT) Add + 350,000.471 to Eastings  
 Add + 5,700,001.511 to Northings

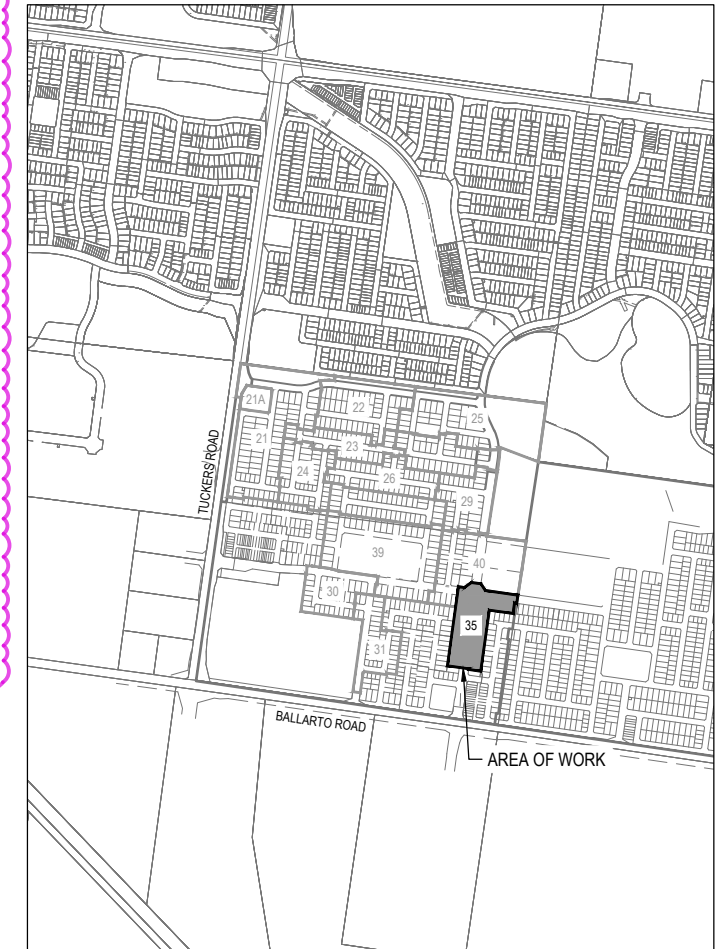
(APPLY SCALE FACTOR) Scale by 0.999861 at point PM103

#### DRAWING INDEX

DRAWING No.	TITLE	REVISION
2101578-35-001	COVER SHEET	C
2101578-35-002	TYPICAL ROAD CROSS SECTIONS & PAVEMENT MAKEUP	B
2101578-35-003	GENERAL DETAILS	A
2101578-35-010	LAYOUT PLAN	C
2101578-35-100	ROAD LONGITUDINAL SECTIONS VIRIDIAN BOULEVARD	A
2101578-35-101	ROAD LONGITUDINAL SECTIONS ERNSTBROOK DRIVE	A
2101578-35-200	ROAD CROSS SECTIONS VIRIDIAN BOULEVARD	A
2101578-35-201	ROAD CROSS SECTIONS ERNSTBROOK DRIVE (SHEET 1 OF 4)	A
2101578-35-202	ROAD CROSS SECTIONS ERNSTBROOK DRIVE (SHEET 2 OF 4)	A
2101578-35-203	ROAD CROSS SECTIONS ERNSTBROOK DRIVE (SHEET 3 OF 4)	A
2101578-35-204	ROAD CROSS SECTIONS ERNSTBROOK DRIVE (SHEET 4 OF 4)	A
2101578-35-300	INTERSECTION DETAILS (SHEET 1 OF 3)	A
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2101578-35-302	INTERSECTION DETAILS (SHEET 3 OF 3)	A
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2101578-35-402	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 3)	A
2101578-35-403	PIT SCHEDULE	A
2101578-35-480	IRRIGATION PLAN (SHEET 1 OF 2)	A
2101578-35-481	IRRIGATION PLAN (SHEET 2 OF 2)	A
177-01-S01	MA CIVIL DESIGN RETAINING WALL DETAILS (SHEET 1)	P2
177-01-S02	MA CIVIL DESIGN RETAINING WALL DETAILS (SHEET 2)	P2
177-01-S03	MA CIVIL DESIGN RETAINING WALL DETAILS (SHEET 3)	P2
177-01-S04	MA CIVIL DESIGN RETAINING WALL DETAILS (SHEET 4)	P1

#### TBM SCHEDULE

TBM/PSM	EASTING	NORTHING	LEVEL	DESCRIPTION
TBM MA6	4850.46	78259.87	27.97	STEEL PICKET
TBM DR6	4825.94	78161.94	26.59	STEEL PICKET
TBM DR19	5359.48	78196.66	21.77	STEEL PICKET
TBM DR20	4982.89	78175.00	23.84	STEEL PICKET
TBM DR22	5069.42	78086.46	21.89	STEEL PICKET
TBM DR23	5357.54	78052.09	21.27	STEEL PICKET
TBM DR44	5052.46	78289.97	22.40	STEEL PICKET



SITE PLAN  
 NOT TO SCALE  
 MELWAY REF: 135 E 11

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
C	DRIVEWAYS FOR 3502-3508 UPDATED	24.06.26	KLW	AP					
B	DRAWING INDEX	11.06.26	KLW	AP					
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



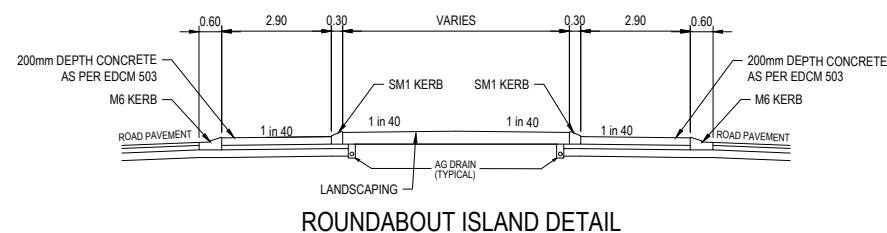
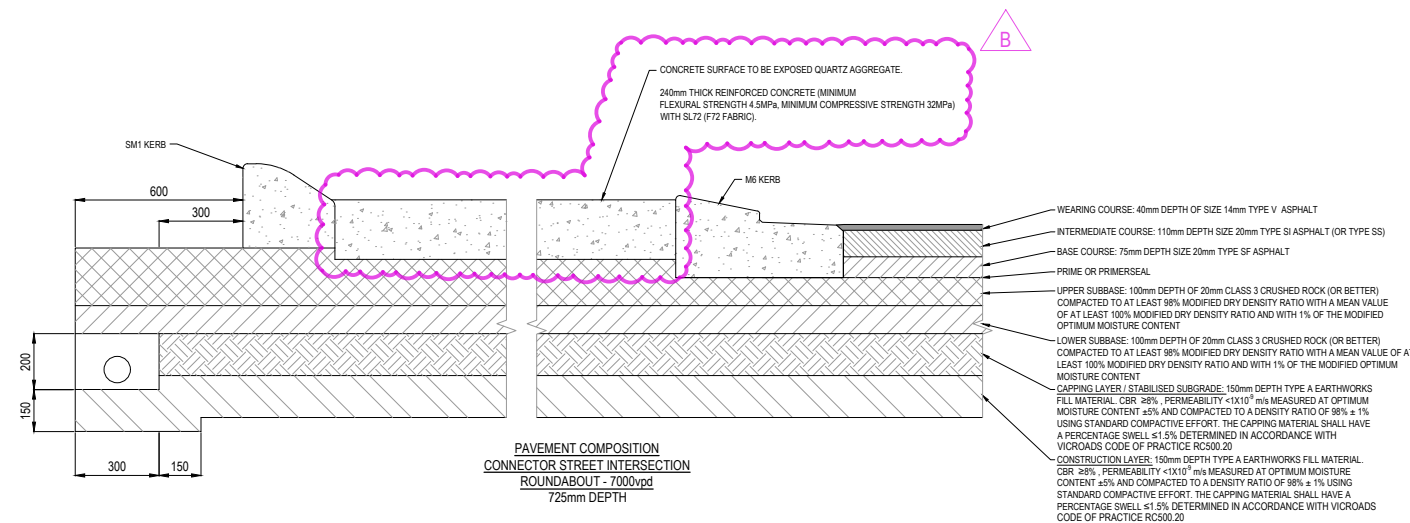
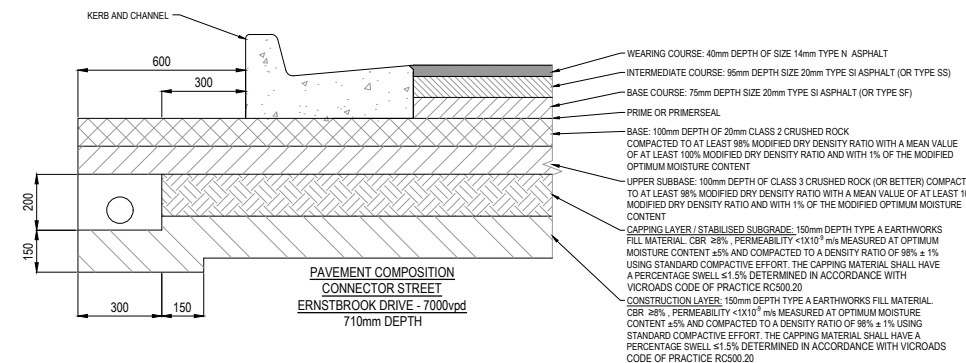
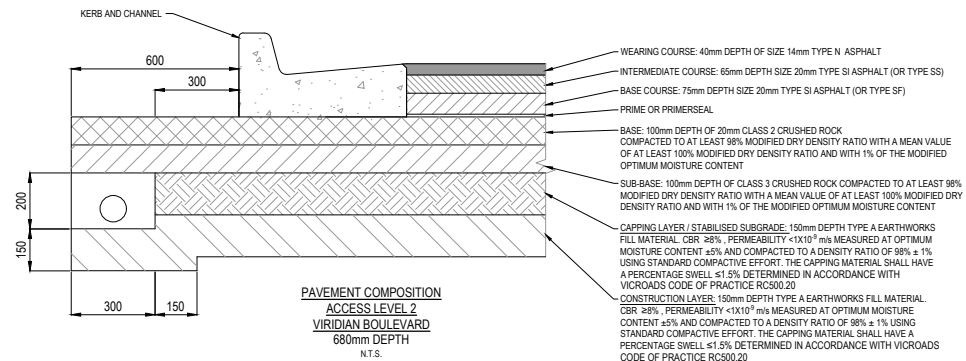
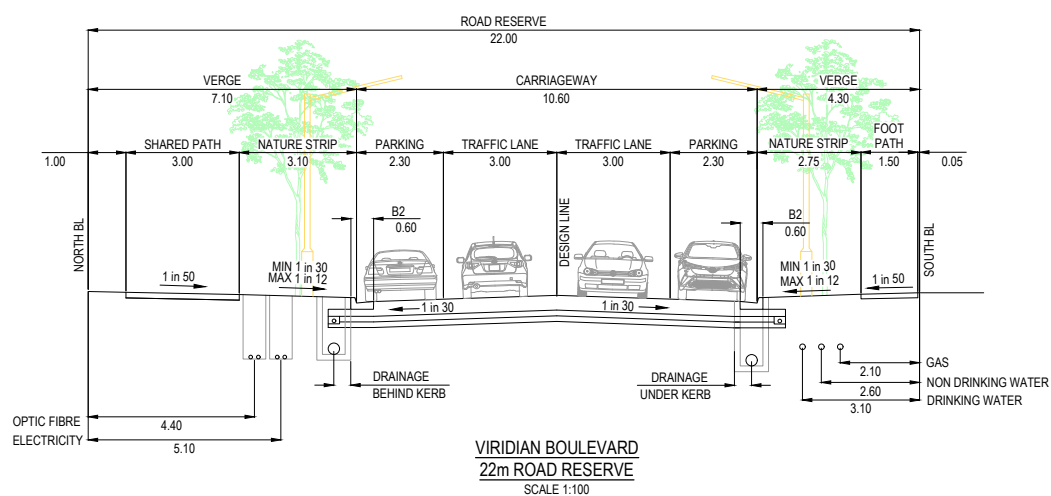
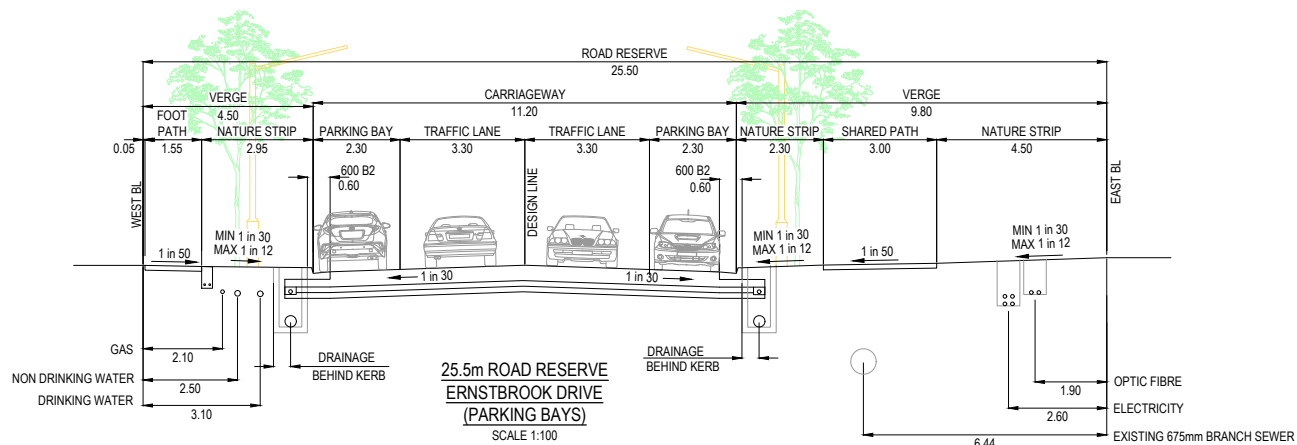
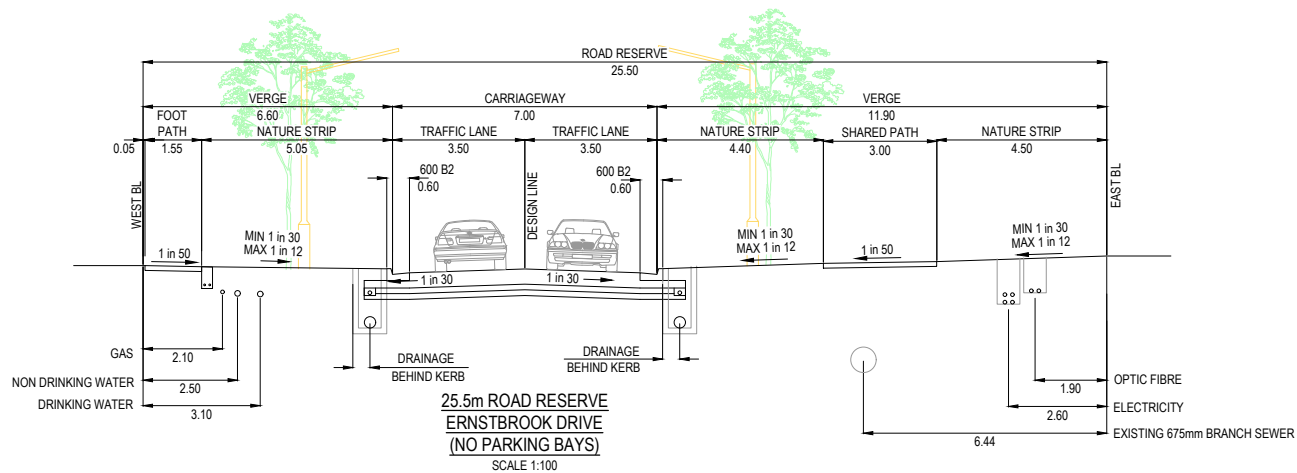
Designed by K. LIM WAN, Date 29.07.2025  
 Drawn by M.F. JAURIGUE  
 Checked by A. PHILALAY, Date 01.08.2025  
 Approved by A. PHILALAY, Reg. No. PE0130714, Date 01.08.2025  
 PS Number PSS33889S

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Project Ref: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: COVER SHEET

Sheet 01 of 21  
 Scale: AS SHOWN

Project Ref: 2101578, Stage No: 35, Drawing No: 001, Rev: C



**ISSUED FOR  
CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
B	ROUNDABOUT CONCRETE TREATMENT	11.06.26	KLW	AP					
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed K. LIM WAN  
Date 29.07.2025  
Drawn M.F. JAURIGUE  
Checked Date A. PHILALAY 01.08.2025  
Approved Date A. PHILALAY P6012014 01.08.2025  
PS Number PSS33889S

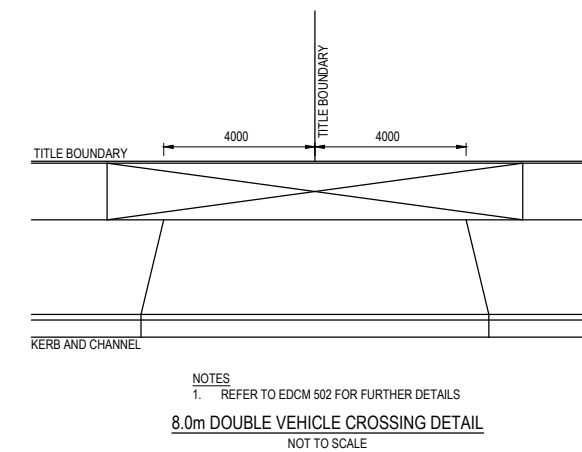
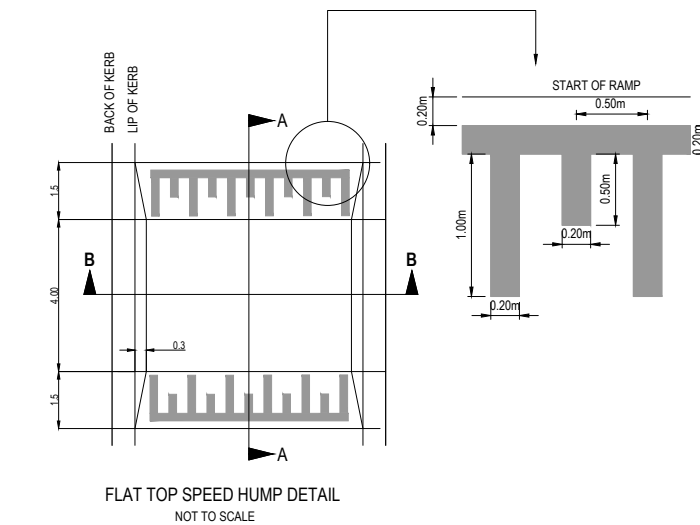
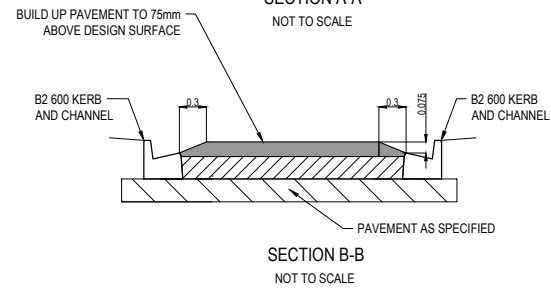
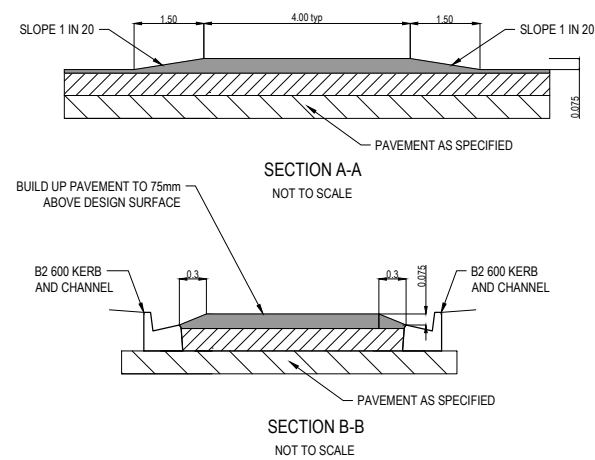
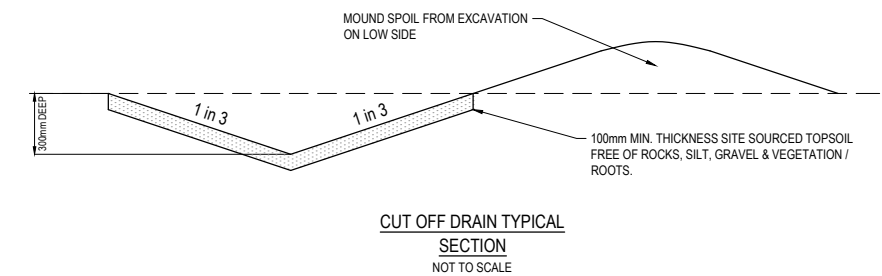
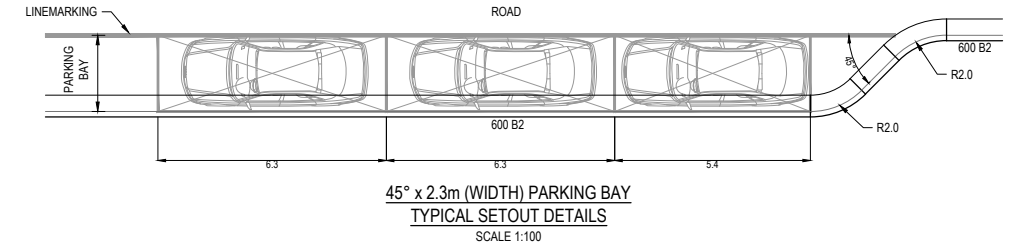
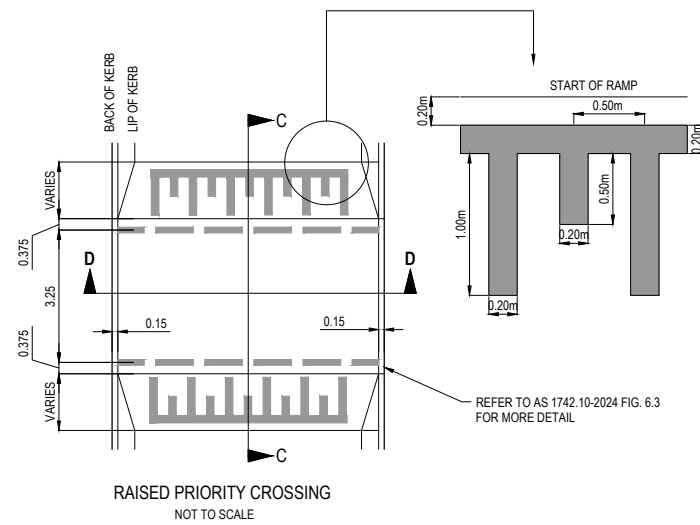
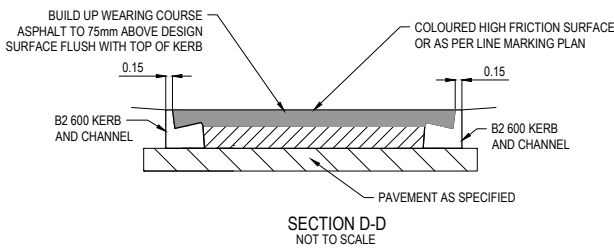
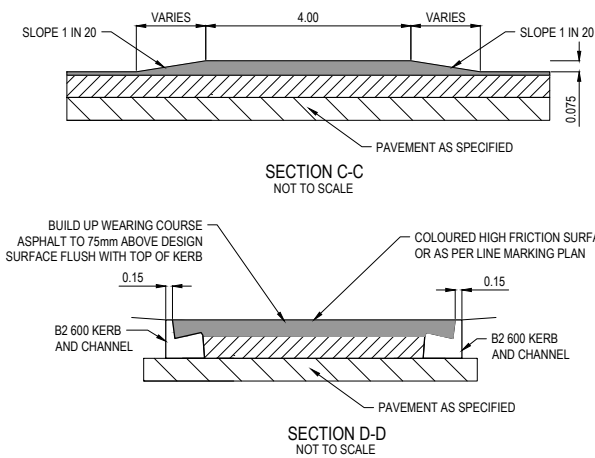
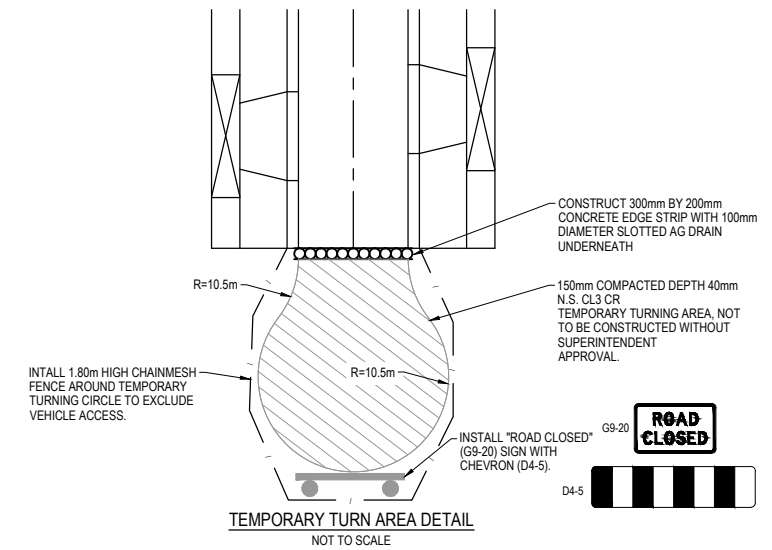
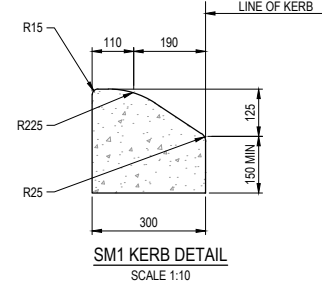
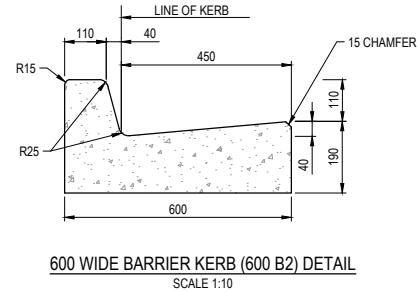
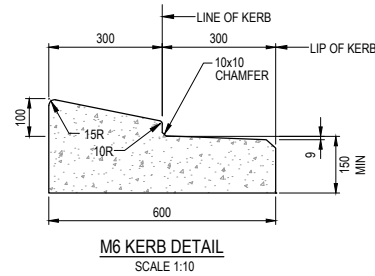
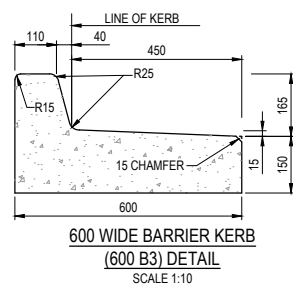
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Project Details RIVERFIELD STAGE 35 CITY OF CASEY  
Drawing Title TYPICAL ROAD CROSS SECTIONS & PAVEMENT MAKEUP

Sheet 02 of 21

Scale AS SHOWN

Project Ref 2101578 Stage No 35 Drawing No 002 Rev B



NOTES  
1. REFER TO EDCM 502 FOR FURTHER DETAILS  
8.0m DOUBLE VEHICLE CROSSING DETAIL  
NOT TO SCALE

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed K. LIM WAN  
Date 29.07.2025  
Drawn M.F. JAURIGUE  
Checked A. PHILALAY  
Date 01.08.2025  
Approved A. PHILALAY  
Reg. No. PE0132014  
Date 01.08.2025  
PS Number PSS933889S

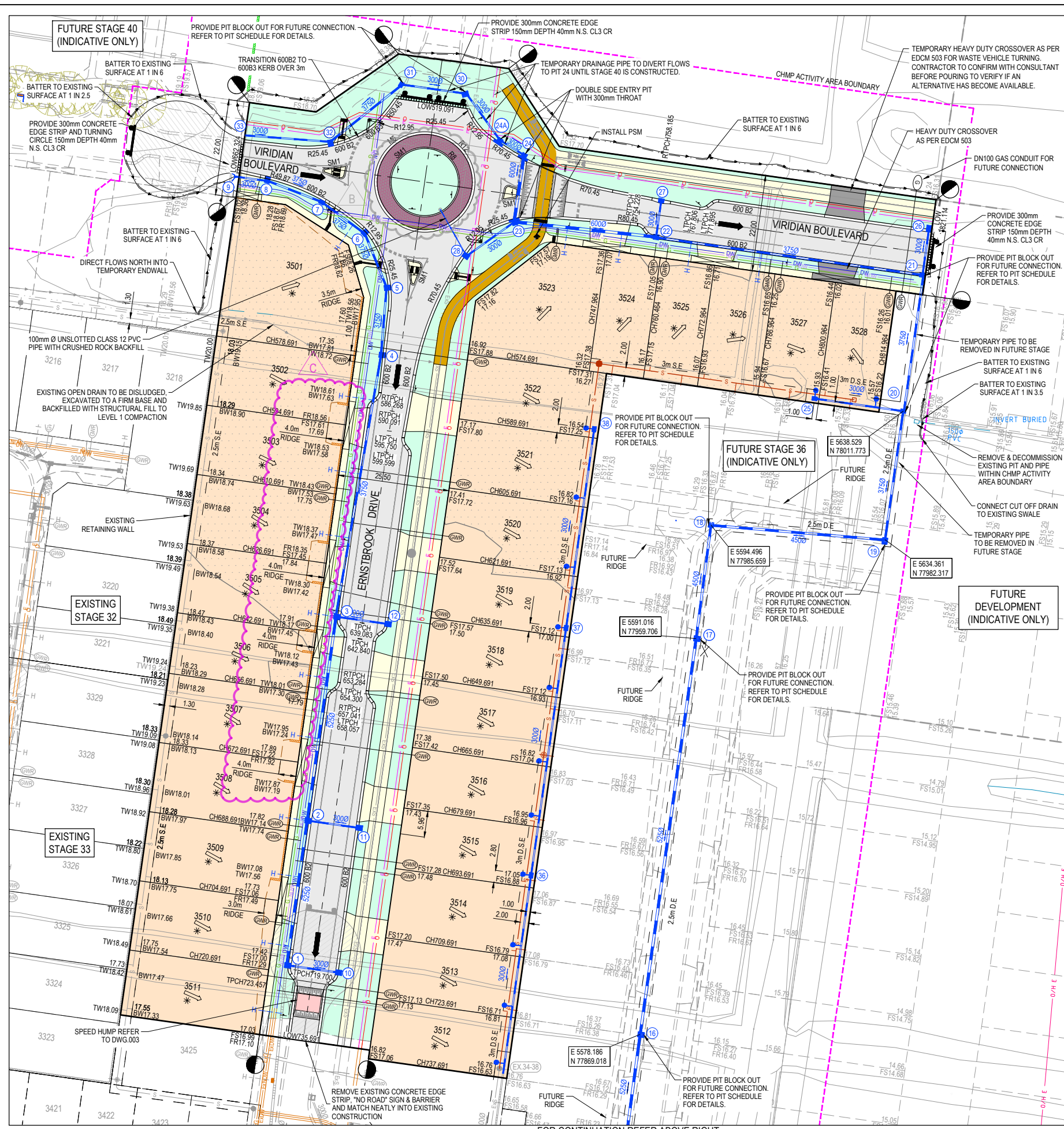


Project RIVERFIELD  
Details STAGE 35  
CITY OF CASEY  
Drawing GENERAL DETAILS  
Title

Sheet 03 of 21

Scale AS SHOWN

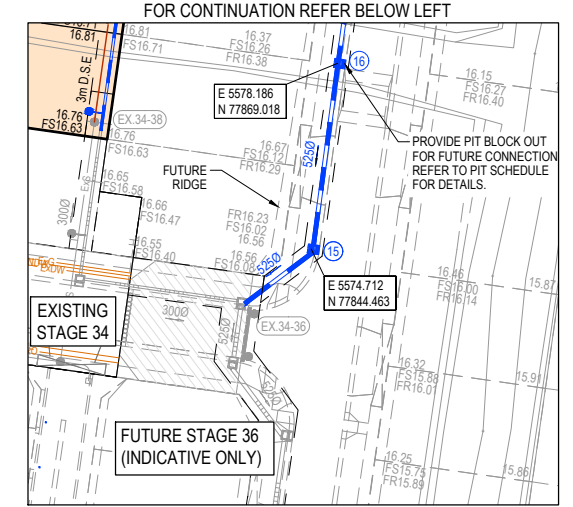
Project Ref 2101578 Stage No 35 Drawing No 003 Rev A



NOTE:  
1. PASSIVE IRRIGATION PRESENT IN THIS STAGE. REFER TO DWG 2101578-35-480-IRR FOR DETAILS.

- LEGEND:**
- PAVEMENT TREATMENT
  - STRUCTURAL FILL > 200mm DEEP
  - EX. STRUCTURAL FILL > 200mm DEEP
  - ROUNDABOUT CONCRETE TREATMENT
  - LOT PATCHING
  - ROAD PAVEMENT
  - FOOTPATH
  - DRIVEWAY
  - INDUSTRIAL STRENGTH DRV / LANEWAYS
  - NATURE STRIP
  - RESERVES
  - ELECTRICAL KIOSK
  - DRAINAGE RESERVE
  - MEDIAN DENSITY LOTS
  - MAINTENANCE ACCESS TRACK
  - DRY OUT AREA
  - OMNIGRIP CST COATING (OR APPROVED EQUIVALENT)

- LEGEND - LAYOUT PLAN**
- STORMWATER DRAIN, PIT & PROPERTY INLET
  - MELBOURNE WATER DRAIN & PIT
  - SWALE DRAIN
  - SEWER & MAINTENANCE STRUCTURES
  - HOUSE DRAIN
  - SERVICE CONDUITS
  - TACTILE PAVERS (INDICATIVE ONLY)
  - ELECTRICITY (UNDERGROUND)
  - ELECTRICITY (OVERHEAD)
  - OPTIC FIBRE
  - TELECOMMUNICATIONS
  - GAS
  - WATER
  - RECYCLED WATER
  - EXISTING ELECTRICITY (UNDERGROUND)
  - EXISTING ELECTRICITY (OVERHEAD)
  - EXISTING GAS
  - EXISTING OPTIC FIBRE
  - EXISTING TELECOMMUNICATIONS
  - EXISTING WATER
  - EXISTING RECYCLED WATER
  - EXISTING STORMWATER DRAIN
  - EXISTING MELBOURNE WATER DRAIN
  - EXISTING SEWER
  - EXISTING HOUSE DRAIN
  - EXISTING SWALE DRAIN
  - EXISTING SURFACE LEVEL
  - FINISHED BUILDING LINE LEVEL
  - FINISHED RIDGE LINE LEVEL
  - TOP OF RETAINING WALL
  - BOTTOM OF RETAINING WALL
  - RIDGE LINE
  - RETAINING WALL
  - ZERO LOT LINES
  - PAVEMENT TREATMENT
  - STRUCTURAL FILL > 200mm DEEP
  - EX. STRUCTURAL FILL > 200mm DEEP
  - 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
  - PERMANENT SURVEY MARK
  - TEMPORARY BENCH MARK
  - PROPOSED DRIVEWAY
  - TREE PROTECTION ZONE (TPZ)

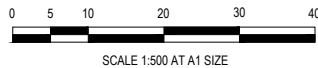


SERVICE OFFSET TABLE

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ERNSTBROOK DRIVE	W	2.10	W	2.60	W	3.10	E	2.60	E	1.90	E	Ex 6.44
VIRIDIAN BOULEVARD	S	2.10	S	2.60	S	3.10	N	5.10	N	4.40	-	-

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

**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



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV.	DESCRIPTION	DATE	DRN.	APP.
C	DRIVEWAYS FOR 3502-3508 UPDATED	24.06.26	KLW	AP					
B	ROUNDABOUT CONCRETE TREATMENT	11.06.26	KLW	AP					
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



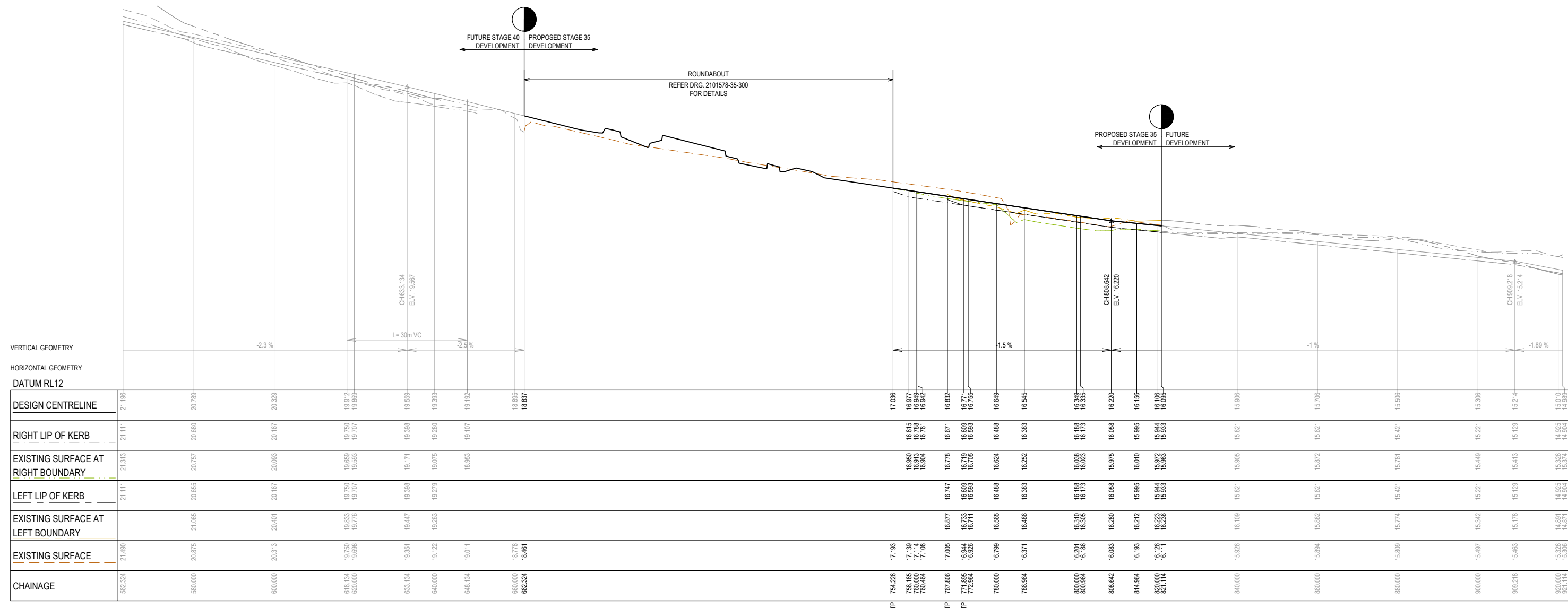
Designed: K. LIM WAN  
Date: 29.07.2025  
Drawn: M.F. JAURIGUE  
Checked: A. PHILALAY  
Date: 01.08.2025  
Approved: A. PHILALAY  
Reg. No.: PE0132014  
Date: 01.08.2025  
PS Number: PSS33889S

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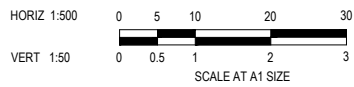
Project: RIVERFIELD STAGE 35 CITY OF CASEY  
Drawing Title: LAYOUT PLAN

Sheet 04 of 21  
Scale: 1:500 @ A1  
Project Ref: 2101578 Stage No: 35 Drawing No: 010 Rev: C

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



VIRIDIAN BOULEVARD - LONGITUDINAL SECTION



ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed K. LIM WAN  
Date 29.07.2025  
Drawn M.F. JAURIGUE  
Checked A. PHILALAY  
Date 01.08.2025  
Approved A. PHILALAY  
Reg. No. PE0132014  
Date 01.08.2025  
PS Number PSS33889S

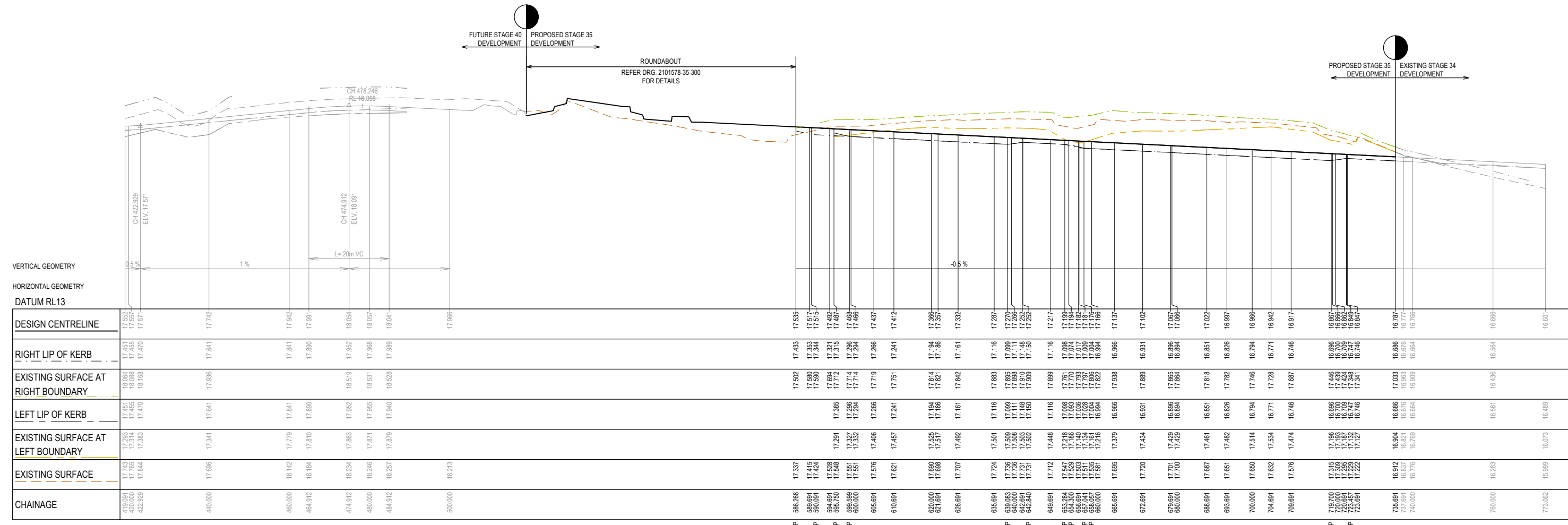
**BW** Beveridge Williams  
Development & Infrastructure Consultants  
1 Glenferrie Road  
Malvern VIC 3144  
ph: 03 9524 8888  
www.beveridgewilliams.com.au

Project Details  
RIVERFIELD  
STAGE 35  
CITY OF CASEY

Drawing Title  
ROAD LONGITUDINAL SECTIONS  
VIRIDIAN BOULEVARD

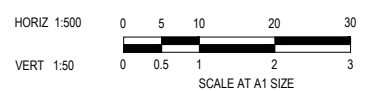
Sheet 05 of 21	
Scale 1:500 H 1:50 V @ A1	
Project Ref 2101578	Stage No 35
Drawing No 100	Rev A

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



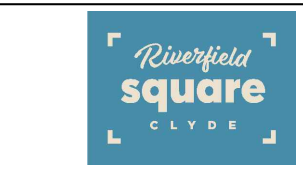
	17552	17551	17571	17742	17942	17991	18054	18057	18041	17966	17535	17517	17344	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
DESIGN CENTRELINE	17552	17551	17571	17742	17942	17991	18054	18057	18041	17966	17535	17517	17344	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
RIGHT LIP OF KERB	17451	17450	17470	17641	17841	17890	17952	17955	17940	17866	17433	17353	17344	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
EXISTING SURFACE AT RIGHT BOUNDARY	18864	18866	18168	17936	17841	17890	18519	18531	18528	18213	17502	17500	17500	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
LEFT LIP OF KERB	17451	17450	17470	17641	17841	17890	17952	17955	17940	17866	17433	17353	17344	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
EXISTING SURFACE AT LEFT BOUNDARY	17293	17314	17363	17341	17779	17810	17863	17871	17879	17543	17502	17500	17500	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
EXISTING SURFACE	17743	17765	17844	17696	18142	18184	18234	18246	18257	18213	17337	17415	17424	17515	17492	17487	17468	17466	17437	17412	17386	17367	17332	17287	17270	17266	17252	17217	17199	17194	17182	17181	17166	17137	17102	17067	17066	17022	16997	16966	16942	16917	16867	16866	16852	16849	16847	16787	16777	16766	16666	16601
CHAINAGE	419.091	420.000	422.929	440.000	460.000	464.912	474.912	480.000	484.912	500.000	586.266	589.691	590.091	591.691	594.750	598.599	600.000	605.691	610.691	620.000	621.691	626.691	635.691	639.083	640.000	642.840	649.691	653.284	654.300	656.691	657.041	659.000	665.691	672.691	679.691	680.000	686.691	693.691	700.000	704.691	709.691	719.700	720.000	723.451	723.691	735.691	737.691	740.000	760.000	773.002		

ERNSTBROOK DRIVE - LONGITUDINAL SECTION



ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: K. LIM WAN  
Date: 29.07.2025  
Drawn: M.F. JAURIGUE  
Checked: A. PHILALAY  
Date: 01.08.2025  
Approved: A. PHILALAY  
Reg. No: PE013016  
Date: 01.08.2025  
PS Number: PSS33889S

**BW** Beveridge Williams  
Development & Infrastructure Consultants  
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www.beveridgewilliams.com.au

Project Details: RIVERFIELD STAGE 35 CITY OF CASEY  
Drawing Title: ROAD LONGITUDINAL SECTIONS ERNSTBROOK DRIVE

Sheet 06 of 21  
Scale: 1:500 H 1:50 V @ A1  
Project Ref: 2101578  
Stage No: 35  
Drawing No: 101  
Rev: A

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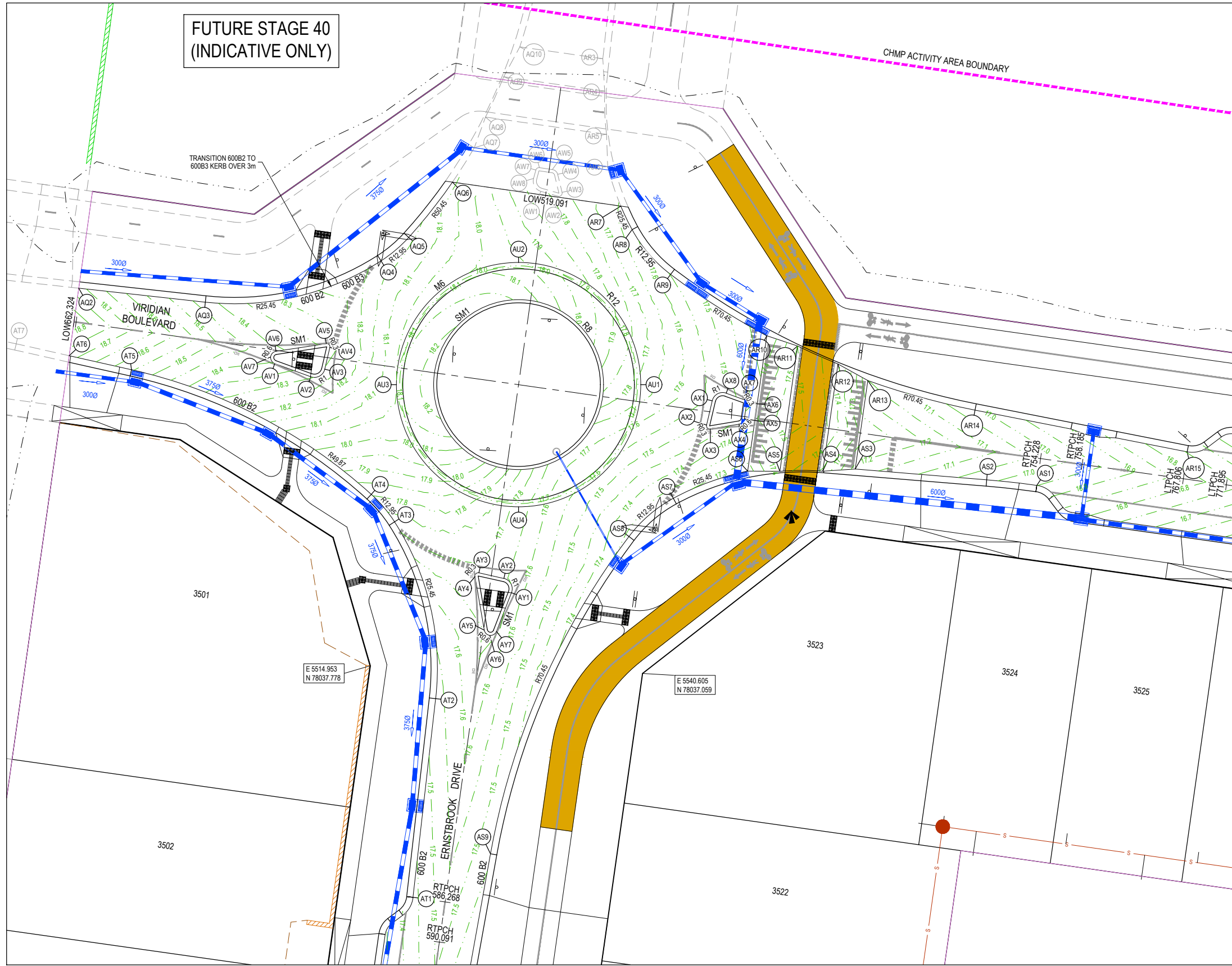








FUTURE STAGE 40  
(INDICATIVE ONLY)



ALIGNMENT AU

Point no	Easting	Northing	RL
AU1	5540.428	78064.243	17.683
AU2	5528.928	78075.743	17.959
AU3	5517.428	78064.243	18.050
AU4	5528.928	78052.743	17.679

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AU1 - AU2	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	17.821
AU2 - AU3	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	18.017
AU3 - AU4	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	17.935
AU4 - AU1	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	17.540

ALIGNMENT AV

Point no	Easting	Northing	RL
AV1	5505.975	78066.227	18.396
AV2	5509.370	78064.986	18.306
AV3	5510.887	78065.699	18.295
AV4	5511.163	78067.746	18.328
AV5	5510.825	78068.106	18.337
AV6	5506.091	78067.384	18.413
AV7	5505.584	78066.850	18.415

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AV2 - AV3	96.984	1.000	1.693	0.337	0.249	0.411	0.338	0.423	18.289
AV4 - AV5	110.965	0.300	0.581	0.130	0.096	0.140	0.108	0.145	18.333
AV6 - AV7	75.624	0.600	0.792	0.126	0.094	0.194	0.173	0.198	18.417
AV7 - AV1	75.624	0.600	0.792	0.126	0.094	0.194	0.173	0.198	18.406

ALIGNMENT AW

Point no	Easting	Northing	RL
AW1	5531.039	78082.439	17.816
AW2	5532.551	78081.994	17.783
AW3	5533.024	78082.344	17.777
AW4	5532.612	78084.043	17.807
AW5	5532.114	78084.496	17.821
AW6	5530.890	78084.671	17.845
AW7	5530.558	78084.452	17.852
AW8	5530.345	78083.661	17.847

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AW2 - AW3	119.350	0.300	0.625	0.149	0.109	0.149	0.110	0.156	17.778
AW4 - AW5	68.277	0.600	0.715	0.103	0.077	0.176	0.161	0.179	17.814
AW6 - AW7	83.023	0.300	0.435	0.075	0.056	0.106	0.093	0.109	17.849
AW8 - AW1	89.350	1.000	1.559	0.289	0.214	0.380	0.323	0.390	17.831

ALIGNMENT AX

Point no	Easting	Northing	RL
AX1	5547.165	78062.727	17.538
AX2	5546.627	78060.439	17.491
AX3	5546.968	78060.075	17.480
AX4	5549.693	78060.530	17.436
AX5	5550.188	78061.038	17.437
AX6	5550.394	78062.491	17.466
AX7	5550.199	78062.815	17.476
AX8	5548.479	78063.438	17.530

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AX2 - AX3	112.732	0.300	0.590	0.134	0.098	0.142	0.108	0.148	17.485
AX4 - AX5	72.470	0.600	0.759	0.116	0.086	0.187	0.168	0.190	17.434
AX6 - AX7	78.133	0.300	0.409	0.067	0.050	0.100	0.089	0.102	17.471
AX8 - AX1	96.665	1.000	1.687	0.335	0.248	0.409	0.338	0.422	17.549

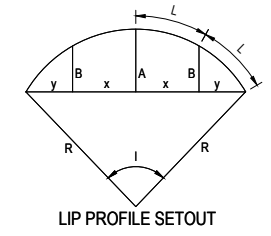
ALIGNMENT AY

Point no	Easting	Northing	RL
AY1	5529.259	78044.655	17.640
AY2	5527.546	78046.000	17.660
AY3	5525.194	78046.532	17.690
AY4	5524.832	78046.188	17.695
AY5	5525.698	78041.127	17.653
AY6	5526.229	78040.632	17.657
AY7	5526.849	78041.012	17.661

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AY1 - AY2	98.381	1.000	1.717	0.346	0.256	0.416	0.341	0.429	17.649
AY3 - AY4	112.432	0.300	0.589	0.133	0.098	0.141	0.108	0.147	17.693
AY5 - AY6	74.594	0.600	0.781	0.123	0.091	0.192	0.172	0.195	17.654
AY6 - AY7	74.594	0.600	0.781	0.123	0.091	0.192	0.172	0.195	17.660

**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



ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					

**BROWN COMMUNITIES**

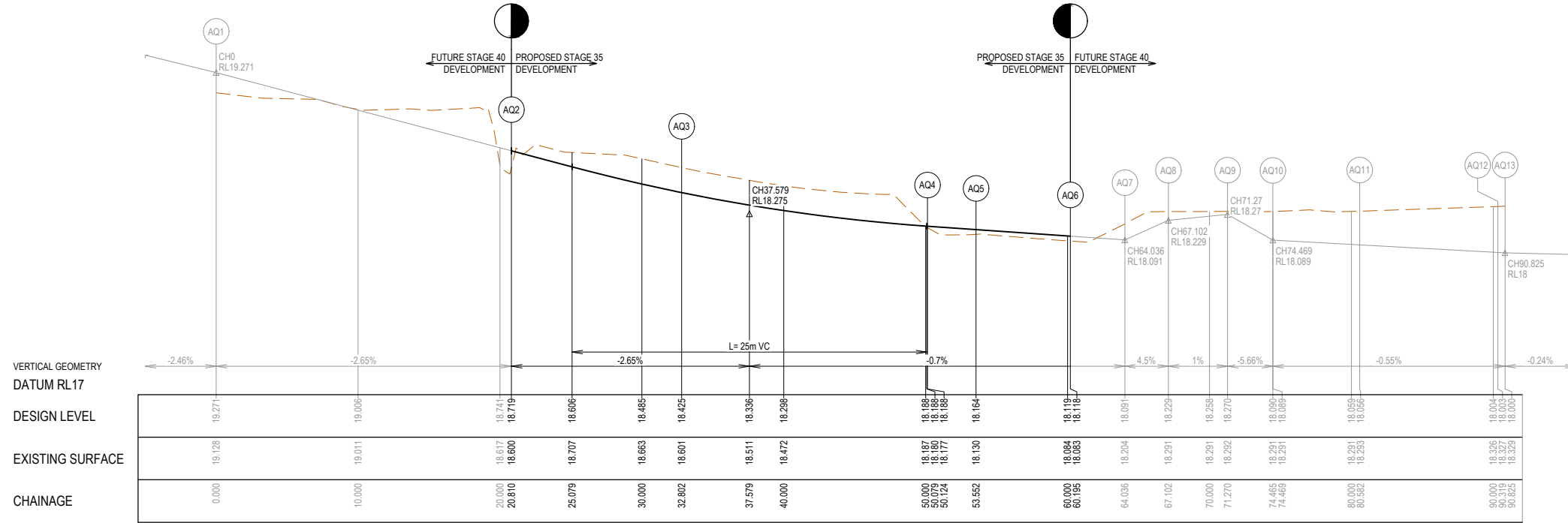
**Riverfield square CLYDE**

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

Project Details  
RIVERFIELD STAGE 35 CITY OF CASEY  
Drawing Title  
INTERSECTION DETAILS (SHEET 1 OF 3)

Sheet 12 of 21  
Scale 1:200 @ A1  
Project Ref 2101578 Stage No 35 Drawing No 300 Rev A

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ALIGNMENT AQ

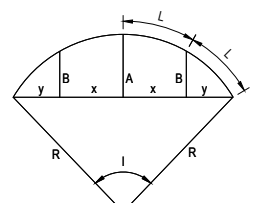
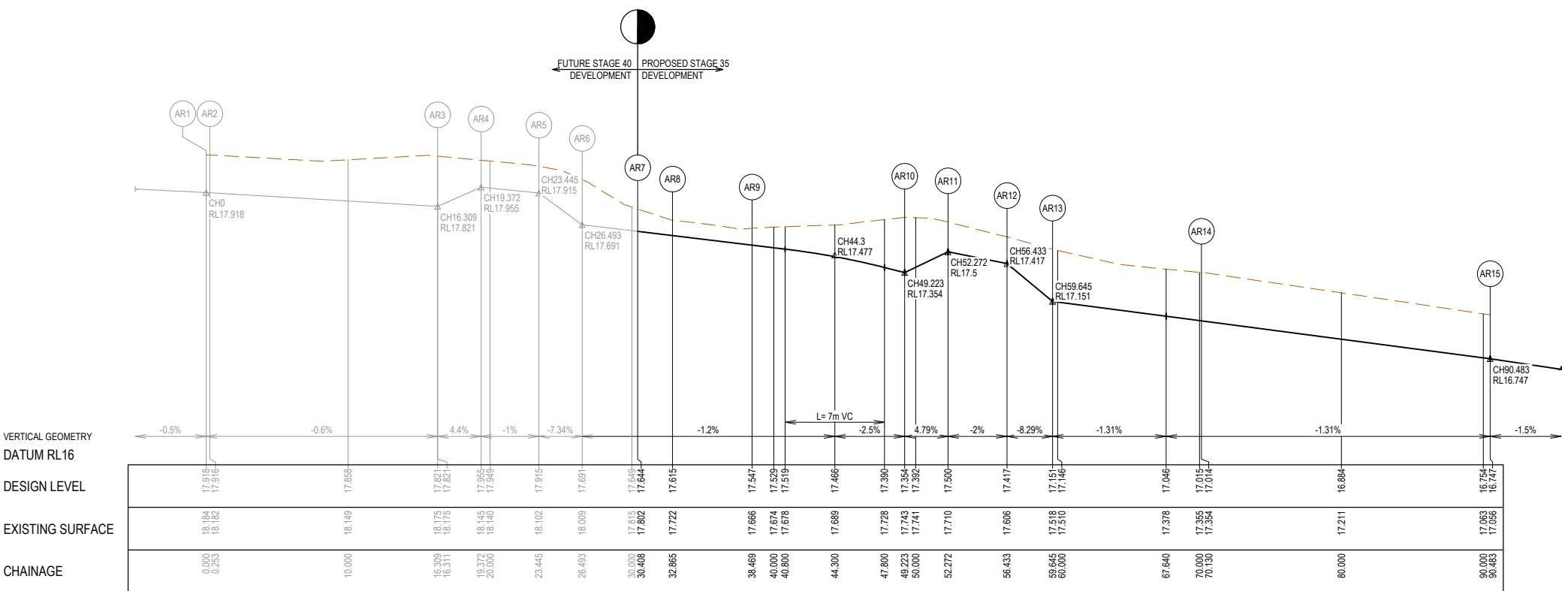
Point no	Easting	Northing	RL
AQ1	5466.837	78075.604	19.271
AQ2	5487.522	78073.325	18.719
AQ3	5499.441	78072.012	18.425
AQ4	5515.982	78075.896	18.188
AQ5	5518.588	78078.106	18.164
AQ6	5522.707	78083.312	18.118
AQ7	5524.764	78086.554	18.091
AQ8	5525.816	78089.435	18.229
AQ9	5527.535	78093.230	18.270
AQ10	5529.048	78096.045	18.090
AQ11	5530.619	78101.952	18.056
AQ12	5532.548	78111.497	18.003
AQ13	5532.633	78111.995	18.000

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AQ3 - AQ4	38.999	25.450	17.323	1.460	1.092	4.310	4.185	4.331	18.277
AQ4 - AQ5	15.166	12.950	3.428	0.113	0.085	0.856	0.853	0.857	18.176
AQ5 - AQ6	7.544	50.450	6.643	0.109	0.082	1.660	1.659	1.661	18.141
AQ6 - AQ7	4.362	50.450	3.841	0.037	0.027	0.960	0.960	0.960	18.104
AQ8 - AQ9	4.776	50.000	4.168	0.043	0.033	1.042	1.041	1.042	18.250
AQ10 - AQ11	6.947	50.450	6.117	0.093	0.070	1.529	1.528	1.529	18.073
AQ12 - AQ13	3.370	8.600	0.506	0.004	0.003	0.126	0.126	0.126	18.001

ALIGNMENT AR

Point no	Easting	Northing	RL
AR1	5538.673	78111.140	17.918
AR2	5538.641	78110.890	17.916
AR3	5536.860	78094.931	17.821
AR4	5537.038	78091.875	17.955
AR5	5537.213	78087.910	17.915
AR6	5537.323	78084.764	17.691
AR7	5538.557	78081.053	17.644
AR8	5539.616	78078.837	17.615
AR9	5543.244	78074.622	17.547
AR10	5552.303	78068.849	17.354
AR11	5555.197	78067.885	17.500
AR12	5558.998	78066.195	17.417
AR13	5561.807	78064.636	17.151
AR14	5571.905	78061.852	17.014
AR15	5591.874	78057.917	16.747

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AR1 - AR2	1.684	6.600	0.253	0.001	0.001	0.063	0.063	0.063	17.917
AR4 - AR5	9.336	25.000	4.074	0.083	0.062	1.018	1.018	1.018	17.935
AR6 - AR7	18.813	25.450	3.915	0.075	0.056	0.978	0.977	0.979	17.668
AR7 - AR8	5.532	25.450	2.457	0.030	0.022	0.614	0.614	0.614	17.629
AR8 - AR9	24.795	12.950	5.604	0.302	0.226	1.398	1.382	1.401	17.581
AR9 - AR10	8.746	70.450	10.753	0.205	0.154	2.688	2.684	2.688	17.474
AR11 - AR12	3.405	70.000	4.160	0.031	0.023	1.040	1.040	1.040	17.459
AR13 - AR14	8.527	70.450	10.484	0.195	0.146	2.621	2.617	2.621	17.082



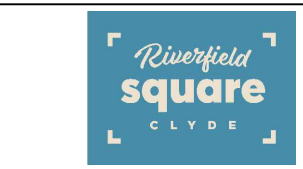
LIP PROFILE SETOUT

**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

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



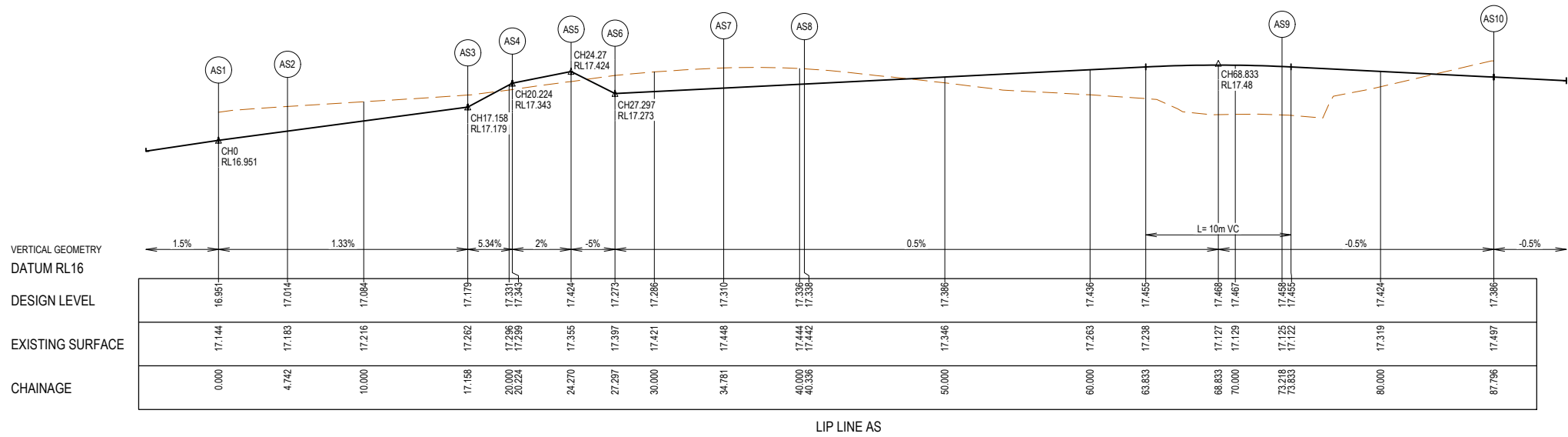
Designed K. LIM WAN  
Date 29.07.2025  
Drawn M.F. JAURIGUE  
Checked A. PHILALAY  
Date 01.08.2025  
Approved A. PHILALAY  
Reg. No. PE013014  
Date 01.08.2025  
PS Number PSS33889S

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

Project Details  
RIVERFIELD STAGE 35 CITY OF CASEY

Drawing Title  
INTERSECTION DETAILS (SHEET 2 OF 3)

Sheet 13 of 21	Scale AS SHOWN
Project Ref 2101578	Stage No 35
Drawing No 301	Rev A



**ALIGNMENT AS**

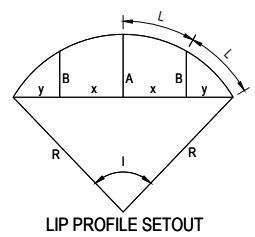
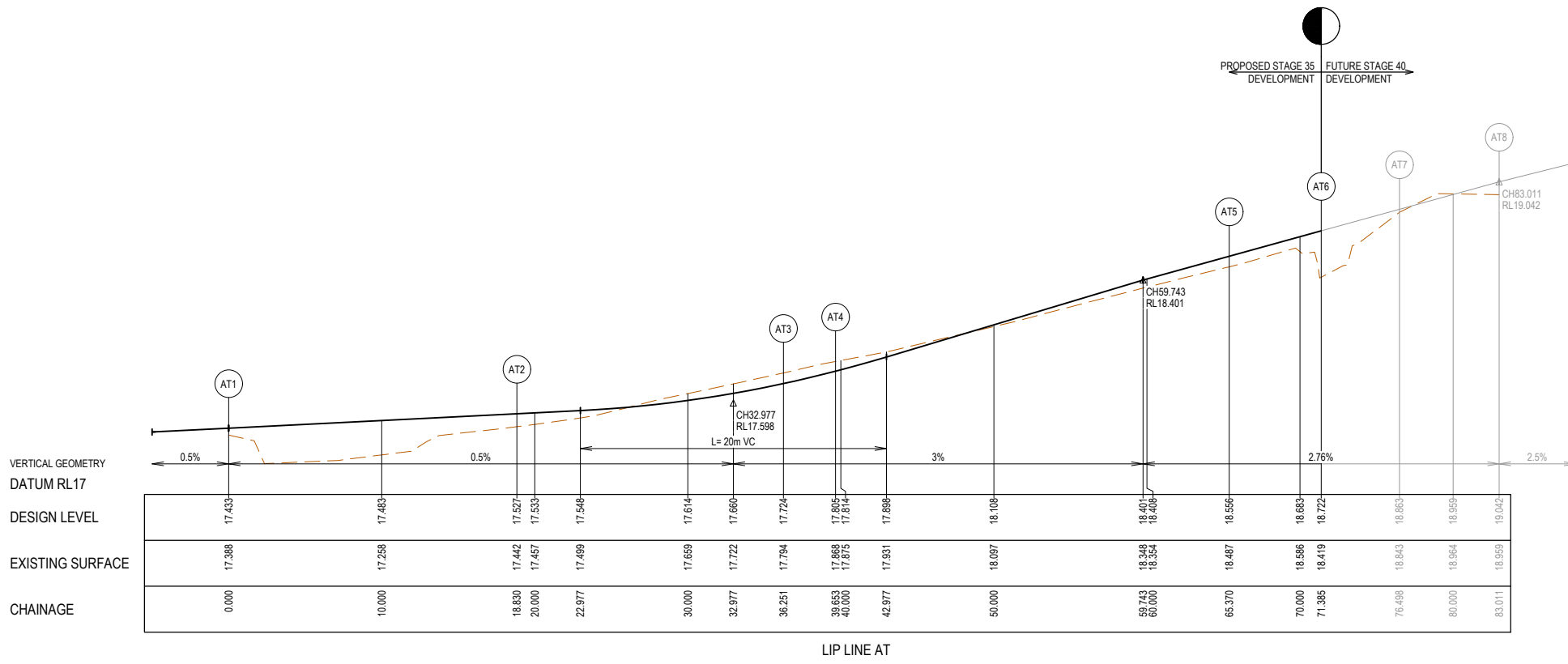
Point no	Easting	Northing	RL
AS1	5577.715	78054.766	16.951
AS2	5573.003	78055.291	17.014
AS3	5560.628	78056.303	17.179
AS4	5557.570	78056.102	17.343
AS5	5553.528	78056.089	17.424
AS6	5550.500	78056.105	17.273
AS7	5543.496	78053.549	17.310
AS8	5538.320	78049.950	17.338
AS9	5528.286	78020.086	17.458
AS10	5523.703	78005.739	17.386

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AS1 - AS2	3.378	80.450	4.742	0.035	0.026	1.185	1.185	1.186	16.982
AS4 - AS5	9.273	25.000	4.046	0.082	0.061	1.011	1.010	1.012	17.384
AS6 - AS7	16.848	25.450	7.484	0.275	0.206	1.869	1.859	1.871	17.291
AS7 - AS8	24.581	12.950	5.556	0.297	0.222	1.386	1.370	1.389	17.324
AS8 - AS9	26.742	70.450	32.882	1.910	1.431	8.202	8.090	8.220	17.420

**ALIGNMENT AT**

Point no	Easting	Northing	RL
AT1	5518.989	78015.983	17.433
AT2	5521.122	78034.692	17.527
AT3	5517.249	78051.329	17.724
AT4	5515.058	78053.919	17.805
AT5	5492.491	78065.648	18.556
AT6	5486.623	78066.969	18.722
AT7	5481.834	78069.039	18.863
AT8	5475.230	78069.265	19.042

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AT2 - AT3	39.218	25.450	17.420	1.476	1.104	4.334	4.207	4.355	17.584
AT3 - AT4	15.052	12.950	3.402	0.112	0.084	0.850	0.846	0.851	17.763
AT4 - AT5	29.545	49.873	25.717	1.648	1.235	6.412	6.305	6.429	18.184
AT7 - AT8	4.638	80.450	6.512	0.066	0.049	1.628	1.627	1.628	18.952



**LEGEND**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
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REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					

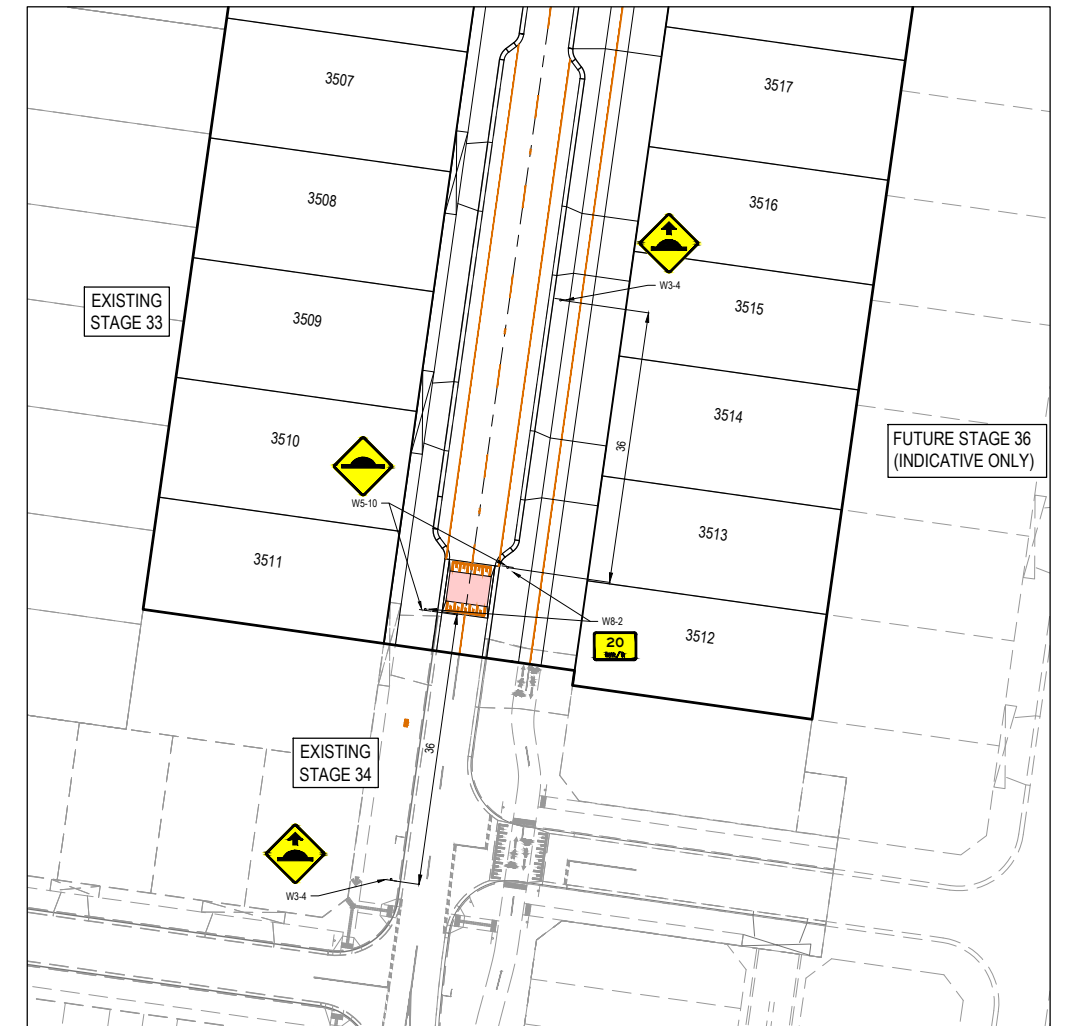
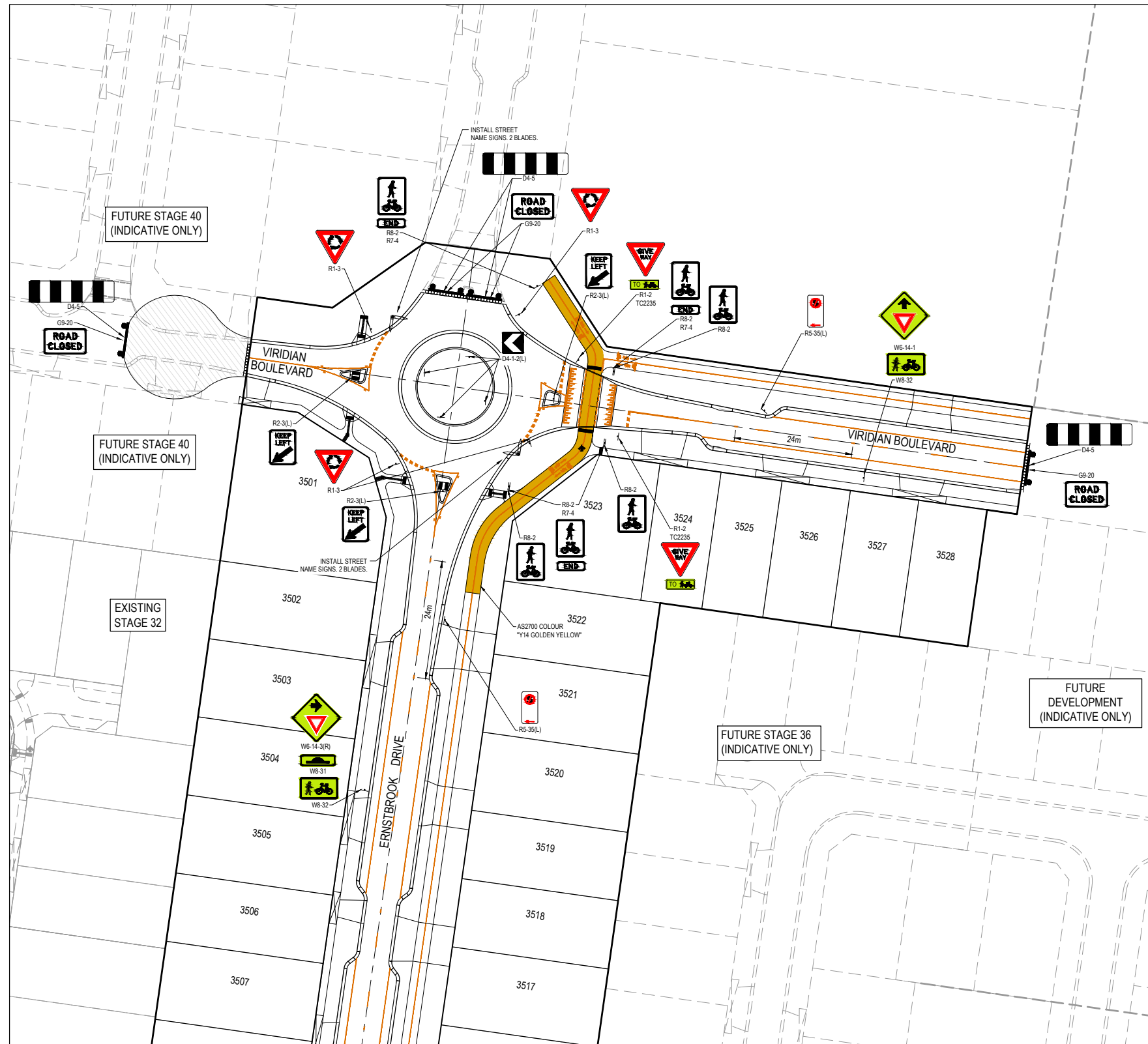


Designed: K. LIM WAN  
Date: 29.07.2025  
Drawn: M.F. JAURIGUE  
Checked: A. PHILALAY  
Date: 01.08.2025  
Approved: A. PHILALAY  
Reg. No.: PE0013074  
Date: 01.08.2025  
PS Number: PSS33889S

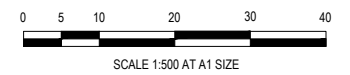
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Project Details: RIVERFIELD STAGE 35 CITY OF CASEY  
Drawing Title: INTERSECTION DETAILS (SHEET 3 OF 3)

Sheet 14 of 21  
Scale: AS SHOWN  
Project Ref: 2101578  
Stage No: 35  
Drawing No: 302  
Rev: A



- 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. PRODUCT MUST BE DTP APPROVED AS PER DTP RDN 06-05. ADHESIVE TGSI MUST NOT BE USED.
  - 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.



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Reg. No. PE012074  
Date 01.08.2025  
PS Number PSS933889S

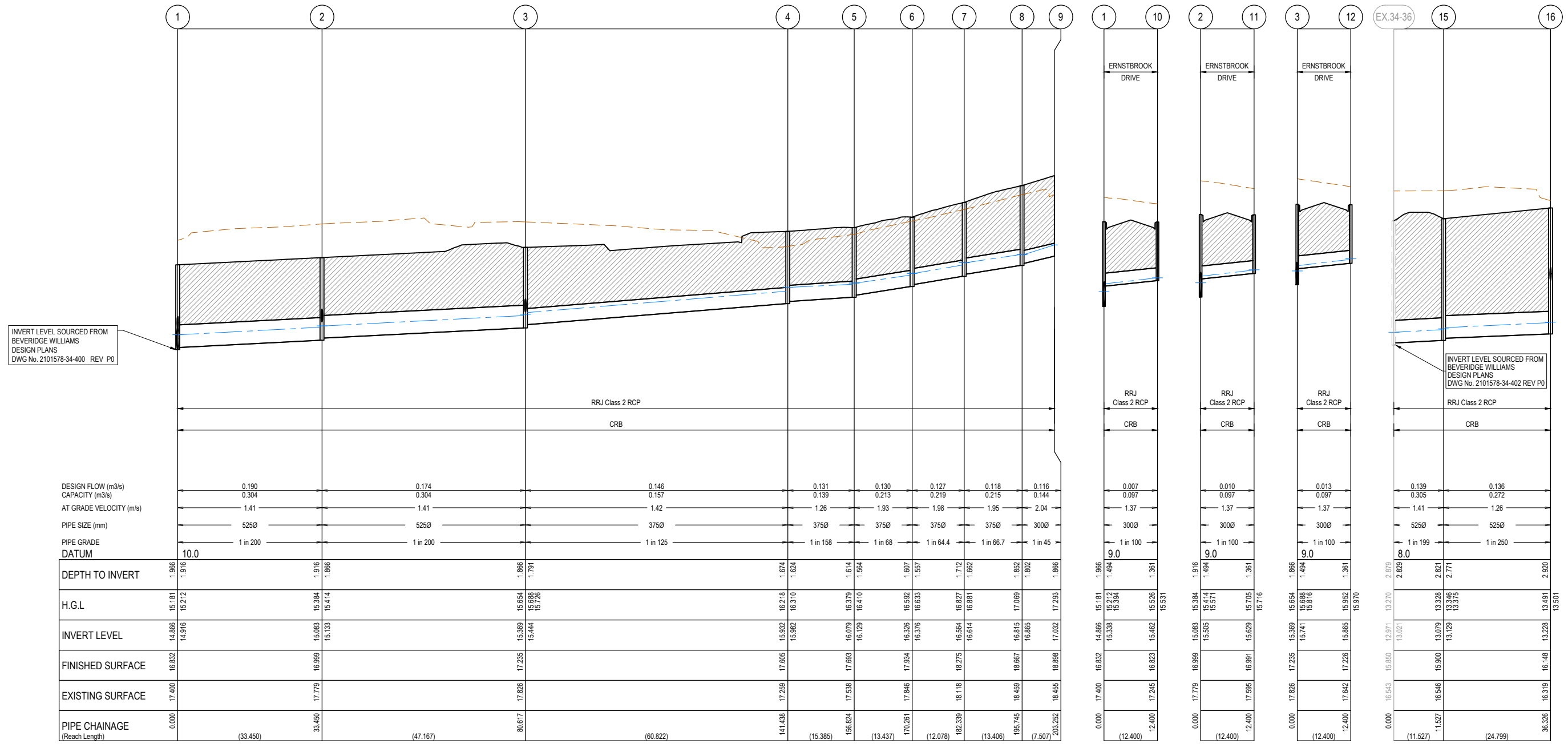
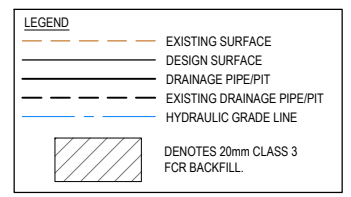
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Project RIVERFIELD  
Details STAGE 35  
CITY OF CASEY  
Drawing Title SIGNAGE & LINE MARKING PLANS

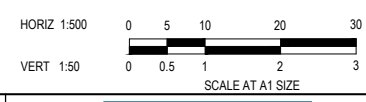
Sheet 15 of 21  
Scale 1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
2101578	35	350	A

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



DESIGN FLOW (m3/s)	0.190		0.174		0.146		0.131		0.130		0.127		0.118		0.116	
CAPACITY (m3/s)	0.304		0.304		0.157		0.139		0.213		0.219		0.215		0.144	
AT GRADE VELOCITY (m/s)	1.41		1.41		1.42		1.26		1.93		1.98		1.95		2.04	
PIPE SIZE (mm)	5250		5250		3750		3750		3750		3750		3750		3000	
PIPE GRADE DATUM	10.0		1 in 200		1 in 200		1 in 125		1 in 158		1 in 68		1 in 64.4		1 in 66.7	
DEPTH TO INVERT	1.866	1.916	1.916	1.866	1.791	1.674	1.624	1.614	1.564	1.607	1.557	1.712	1.662	1.852	1.802	1.866
H.G.L.	15.181	15.212	15.384	15.414	15.654	15.688	15.726	16.218	16.310	16.376	16.592	16.633	16.827	16.881	17.069	17.293
INVERT LEVEL	14.886	14.916	15.083	15.133	15.369	15.444	15.444	15.932	15.982	16.079	16.129	16.275	16.614	16.815	16.865	17.032
FINISHED SURFACE	16.832	16.999	16.999	16.999	17.235	17.235	17.235	17.605	17.605	17.934	17.934	18.275	18.275	18.667	18.667	18.898
EXISTING SURFACE	17.400	17.779	17.779	17.826	17.826	17.826	17.826	17.259	17.259	17.846	17.846	18.118	18.118	18.459	18.459	18.455
PIPE CHAINAGE (Reach Length)	0.000	(33.450)	(47.167)	(60.822)	(141.438)	(156.824)	(156.824)	(170.261)	(170.261)	(182.339)	(182.339)	(195.745)	(195.745)	(203.252)	(203.252)	(203.252)



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A	ISSUED FOR CONSTRUCTION	04.03.28	LS	AP		



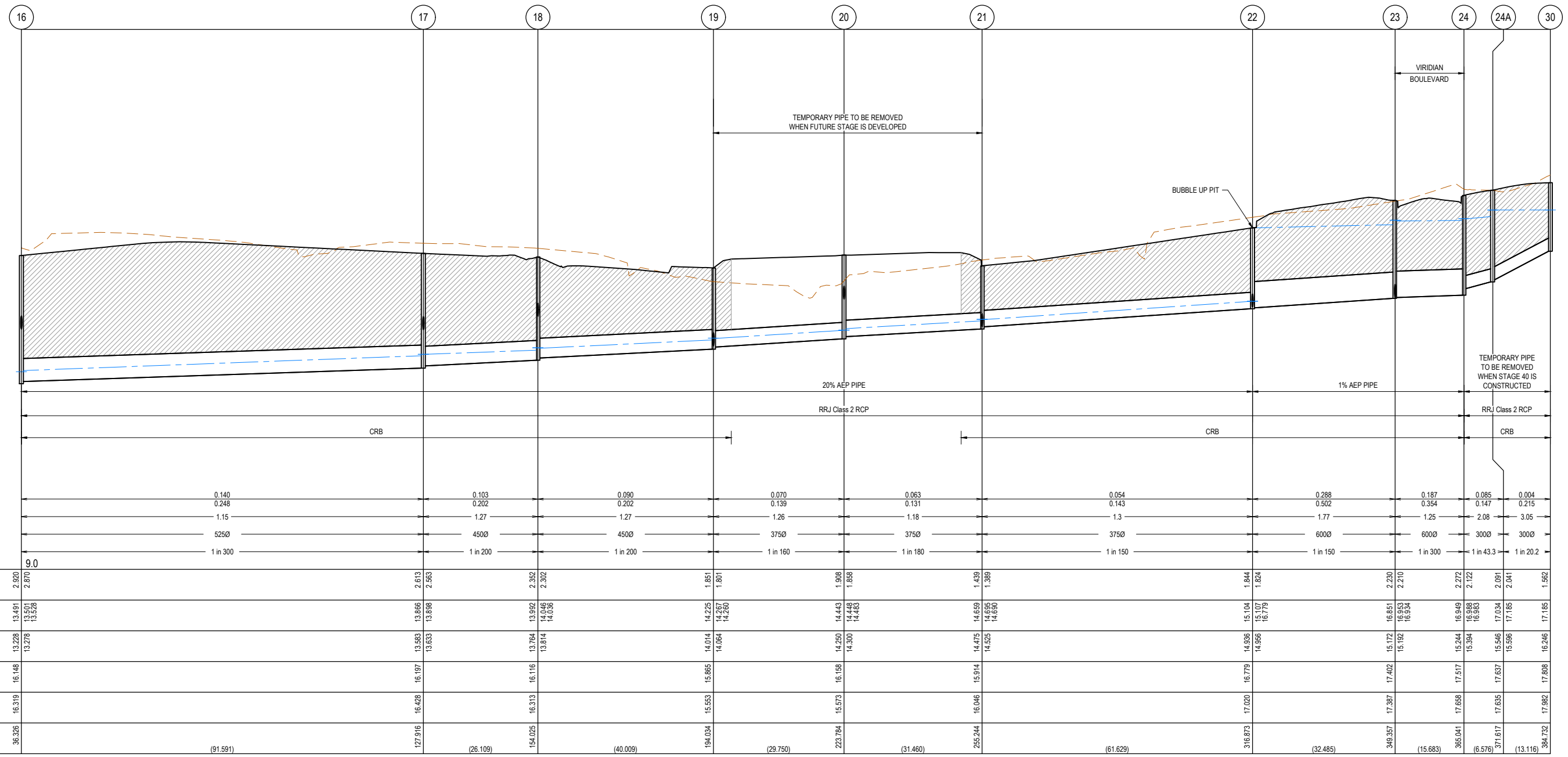
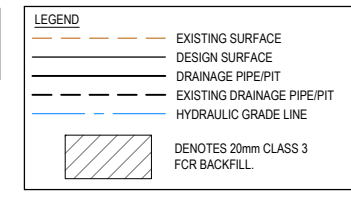
Designed: K. LIM WAN  
 Date: 29.07.2025  
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 Checked: A. PHILALAY  
 Date: 01.08.2025  
 Approved: A. PHILALAY  
 Reg. No.: PE0132014  
 Date: 01.08.2025  
 PS Number: PSS33889S

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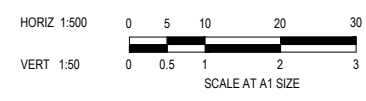
Project Details: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 3)

Sheet 16 of 21	
Scale 1:500 H 1:50 V @ A1	
Project Ref 2101578	Stage No 35
Drawing No 400	Rev A

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



	16	17	18	19	20	21	22	23	24	24A	30	
DESIGN FLOW (m3/s)			0.103	0.090	0.070	0.063	0.054	0.288	0.187	0.085	0.004	
CAPACITY (m3/s)			0.202	0.202	0.139	0.131	0.143	0.502	0.354	0.147	0.215	
AT GRADE VELOCITY (m/s)			1.27	1.27	1.26	1.18	1.3	1.77	1.25	2.08	3.05	
PIPE SIZE (mm)			4500	4500	3750	3750	3750	6000	6000	3000	3000	
PIPE GRADE DATUM	9.0		1 in 200	1 in 200	1 in 160	1 in 180	1 in 150	1 in 150	1 in 300	1 in 43.3	1 in 20.2	
DEPTH TO INVERT	2.920 2.870		2.613 2.563	2.552 2.502	1.851 1.801	1.988 1.888	1.439 1.389	1.844 1.824	2.230 2.210	2.272 2.122	2.091 2.041	1.582
H.G.L.	13.491 13.328 13.328		13.866 13.898	13.992 14.046 14.036	14.225 14.267 14.260	14.443 14.483 14.483	14.659 14.699 14.699	15.104 15.107 16.779	16.851 16.953 16.934	16.949 16.988 16.983	17.034 17.185	17.185
INVERT LEVEL	13.228 13.278		13.583 13.633	13.764 13.814	14.014 14.064	14.230 14.300	14.475 14.525	14.936 14.956	15.172 15.192	15.244 15.394	15.546 15.596	16.246
FINISHED SURFACE	16.148		16.197	16.116	16.865	16.158	16.914	16.779	17.402	17.517	17.637	17.808
EXISTING SURFACE	16.319		16.428	16.313	15.553	15.573	16.046	17.020	17.387	17.658	17.635	17.982
PIPE CHAINAGE (Reach Length)	36.326	(91.591)	127.916 (26.109)	154.025 (40.009)	194.034 (29.750)	223.784 (31.460)	255.244 (61.629)	316.873 (32.485)	349.357 (15.683)	365.041 (6.576)	371.617 (13.116)	384.732



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A	ISSUED FOR CONSTRUCTION	04.03.28	LS	AP					



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 Reg. No. PE013074  
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Project Details  
 RIVERFIELD  
 STAGE 35  
 CITY OF CASEY

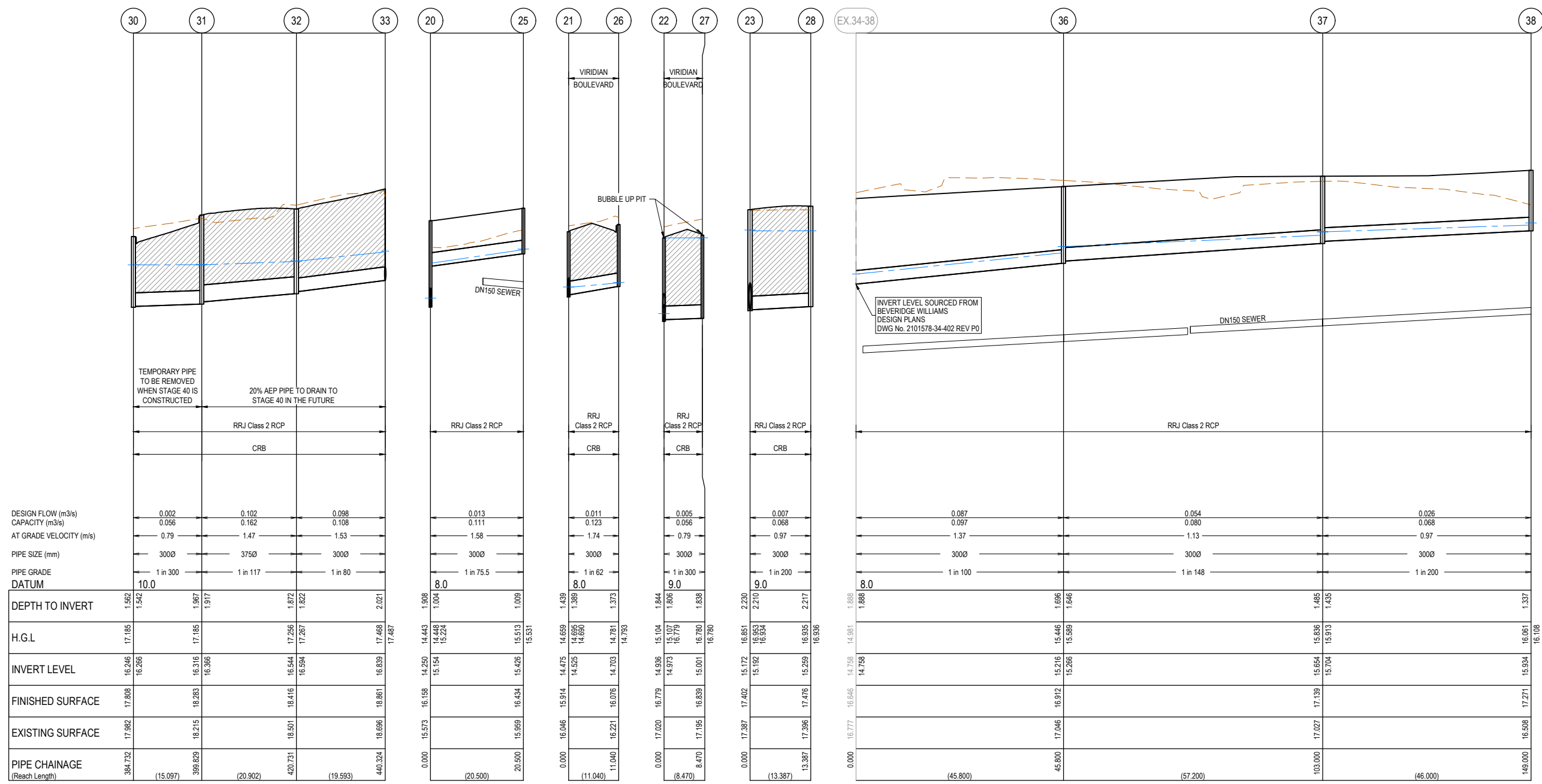
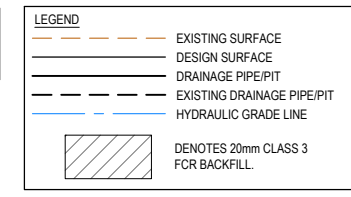
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 DRAINAGE LONGITUDINAL SECTIONS  
 (SHEET 2 OF 3)

Sheet 17 of 21  
 Scale 1:500 H 1:50 V @ A1

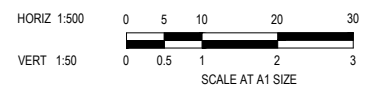
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2101578	35	401	A

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



DESIGN FLOW (m3/s)	0.002	0.102	0.098
CAPACITY (m3/s)	0.056	0.162	0.108
AT GRADE VELOCITY (m/s)	0.79	1.47	1.53
PIPE SIZE (mm)	3000	3750	3000
PIPE GRADE DATUM	1 in 300	1 in 117	1 in 80
DEPTH TO INVERT	1.582	1.917	2.021
H.G.L.	17.185	17.185	17.488
INVERT LEVEL	16.246	16.316	16.839
FINISHED SURFACE	17.808	18.283	18.881
EXISTING SURFACE	17.982	18.215	18.696
PIPE CHAINAGE (Reach Length)	384.732 (15.097)	399.829 (20.902)	440.324 (19.593)



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A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



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 PS Number PSS33889S

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Project Details  
 RIVERFIELD  
 STAGE 35  
 CITY OF CASEY

Drawing Title  
 DRAINAGE LONGITUDINAL SECTIONS  
 (SHEET 3 OF 3)

Sheet 18 of 21			
Scale 1:500 H 1:50 V @ A1			
Project Ref 2101578	Stage No 35	Drawing No 402	Rev A

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**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 FOR BACKFILL.

PIT SCHEDULE														
PIT NAME	PIT TYPE	LID		INTERNAL		INLET		OUTLET		F.S.L	DEPTH (m)	PIT DETAIL	HAUNCH DETAIL	REMARKS
		WIDTH (mm)	LENGTH (mm)	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L (mm)	DIAMETER (mm)	INV R.L (m)					
1	SIDE ENTRY PIT	600	900	900	900	525 300	14.916 15.338	525	14.866	16.832	1.966	EDCM 601	EDCM 607	HAUNCH PIT EAST. REMOVE MARKER POST AND UNCAP PIPE. CONSTRUCT PIT OVER EXSITING PIPE.
2	SIDE ENTRY PIT	600	900	900	900	525 300	15.133 15.505	525	15.083	16.999	1.916	EDCM 601	EDCM 607	HAUNCH PIT EAST.
3	SIDE ENTRY PIT	600	900	900	900	375 300	15.444 15.741	525	15.369	17.235	1.866	EDCM 601	EDCM 607	HAUNCH PIT EAST.
4	SIDE ENTRY PIT	600	900	600	900	375	15.982	375	15.932	17.605	1.674	EDCM 601	-	
5	SIDE ENTRY PIT	600	900	600	900	375	16.129	375	16.079	17.693	1.614	EDCM 601	-	
6	SIDE ENTRY PIT	600	900	600	900	375	16.376	375	16.326	17.934	1.607	EDCM 601	-	
7	JUNCTION PIT	600	900	600	900	375	16.614	375	16.564	18.275	1.712	EDCM 605	-	
8	SIDE ENTRY PIT	600	900	600	900	300	16.865	375	16.815	18.667	1.852	EDCM 601	-	
9	ENDWALL					300	17.032	300	17.032	18.898	1.866	-	-	TEMPORARY SANDBAG ENDWALL TO SUIT DN800 PIPE.
10	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.462	16.823	1.361	EDCM 601	-	
11	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.629	16.991	1.361	EDCM 601	-	
12	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.865	17.226	1.361	EDCM 601	-	
15	SIDE ENTRY PIT	600	900	900	1050	525	13.129	525	13.079	15.9	2.821	EDCM 601	EDCM 607	HAUNCH PIT EAST.
16	SIDE ENTRY PIT	600	900	900	900	525 300	13.278 14.473	525	13.228	16.148	2.920	EDCM 601	EDCM 607	HAUNCH PIT EAST. PIT BLOCKOUT ON EAST WALL FOR FUTURE 300mm CONNECTION- IL14.473
17	SIDE ENTRY PIT	600	900	900	900	450 300	13.633 14.459	525	13.583	16.197	2.613	EDCM 601	EDCM 607	HAUNCH PIT EAST. PIT BLOCKOUT ON EAST WALL FOR FUTURE 300mm CONNECTION- IL14.459
18	GRADED PIT	600	900	900	900	450 300	13.814 14.764	450	13.764	16.116	2.352	EDCM 605	EDCM 607	PROVIDE HEAVY DUTY GRATED COVER. HAUNCH PIT NORTH. PIT BLOCKOUT ON WEST WALL FOR FUTURE 300mm CONNECTION- IL14.764
19	SIDE ENTRY PIT	600	900	900	900	375 300	14.064 14.089	450	14.014	15.865	1.851	EDCM 601	EDCM 607	HAUNCH PIT SOUTH. PIT BLOCKOUT ON SOUTH WALL FOR FUTURE 300mm CONNECTION- IL14.089
20	JUNCTION PIT	600	900	600	900	375 300	14.3 15.154	375	14.25	16.158	1.908	EDCM 605	-	PIT BLOCKOUT ON EAST WALL FOR FUTURE 300mm CONNECTION- IL14.25
21	SIDE ENTRY PIT	750	1000	750	1000	375 300	14.525 14.525	375	14.475	15.914	1.439	VR SD1322	-	PIT BLOCKOUT ON EAST WALL FOR FUTURE 375mm CONNECTION- IL14.475
22	SIDE ENTRY PIT	750	1000	900	1000	600 300	14.956 14.973	375	14.936	16.779	1.844	VR SD1322	VR SD1021	HAUNCH PIT NORTH.
23	DOUBLE SIDE ENTRY PIT	600	900	900	900	600 300	15.192 15.192	600	15.172	17.402	2.230	EDCM 602	EDCM 607	HAUNCH PIT NORTH. PROVIDE 300mm PIPE BETWEEN CATCH PIT & JUNCTION PIT.
24	DOUBLE SIDE ENTRY PIT	600	900	600	900	300	15.394	600	15.244	17.517	2.272	EDCM 602	-	PROVIDE 300mm PIPE BETWEEN CATCH PIT & JUNCTION PIT.
24A	DOUBLE SIDE ENTRY PIT	600	900	600	900	300	15.596	300	15.546	17.637	2.091	EDCM 602	-	PROVIDE 300mm PIPE BETWEEN CATCH PIT & JUNCTION PIT.
25	JUNCTION PIT	600	900	600	900	-	-	300	15.426	16.434	1.009	EDCM 605	-	
26	SIDE ENTRY PIT	600	900	600	900	-	-	300	14.703	16.076	1.373	EDCM 601	-	
27	SIDE ENTRY PIT	750	1000	750	1000	-	-	300	15.001	16.839	1.838	VR SD1322	-	
28	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.259	17.476	2.217	EDCM 601	-	
30	SIDE ENTRY PIT	600	900	600	900	300	16.266	300	16.246	17.808	1.562	EDCM 601	-	PIT BLOCKOUT ON NORTH WALL FOR FUTURE 375mm CONNECTION- IL16.316
31	JUNCTION PIT	600	900	600	900	375	16.366	300	16.316	18.283	1.967	EDCM 605	-	PIT BLOCKOUT ON NORTH WALL FOR FUTURE 375mm CONNECTION- IL16.316
32	SIDE ENTRY PIT	600	900	600	900	300	16.594	375	16.544	18.416	1.872	EDCM 601	-	
33	END PIPE	-	-	-	-	300	16.839	300	16.839	18.861	2.021	-	-	CAP AND SEAL. PROVIDE MARKER POST.
36	JUNCTION PIT	600	900	600	900	300	15.266	300	15.216	16.912	1.696	EDCM 605	-	
37	JUNCTION PIT	600	900	600	900	300	15.704	300	15.654	17.139	1.485	EDCM 605	-	
38	JUNCTION PIT	600	900	600	900	-	-	300	15.934	17.271	1.337	EDCM 605	-	

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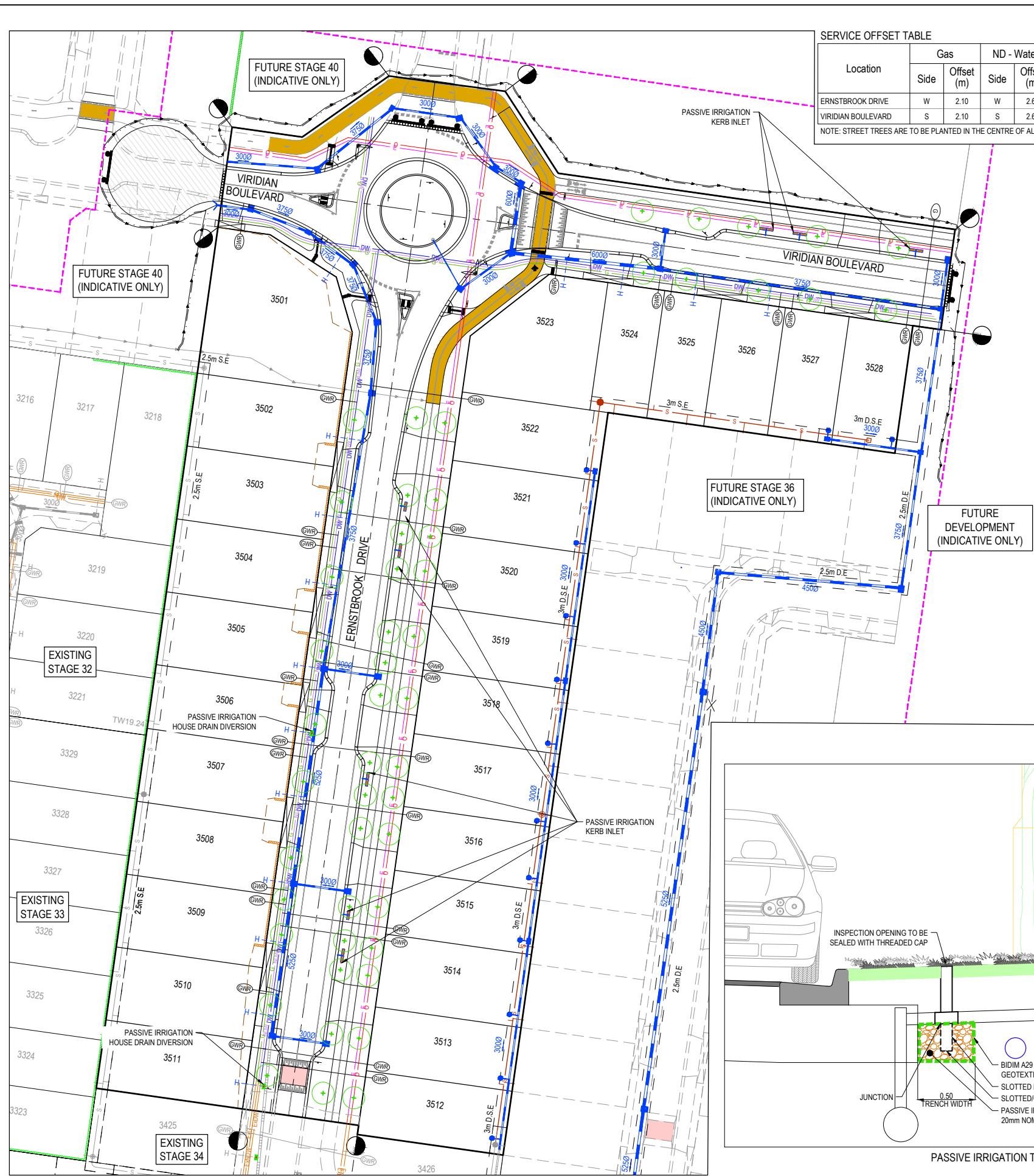
Designed: K. LIM WAN  
 Date: 29.07.2025  
 Drawn: M.F. JAURIGUE  
 Checked: A. PHILALAY  
 Date: 01.08.2025  
 Approved: A. PHILALAY  
 Reg. No.: PE013074  
 Date: 01.08.2025  
 PS Number: PSS933889S

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Project Details: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: PIT SCHEDULE

Project Ref: 2101578  
 Stage No: 35  
 Drawing No: 403  
 Rev: A

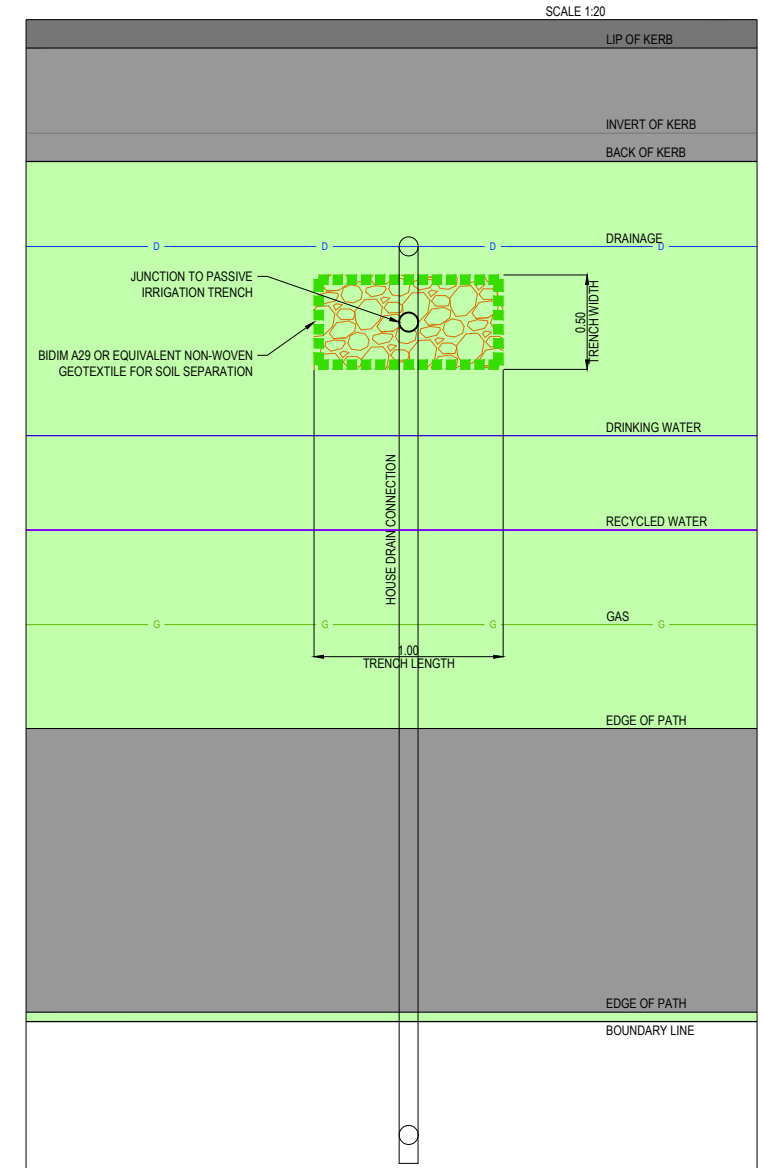
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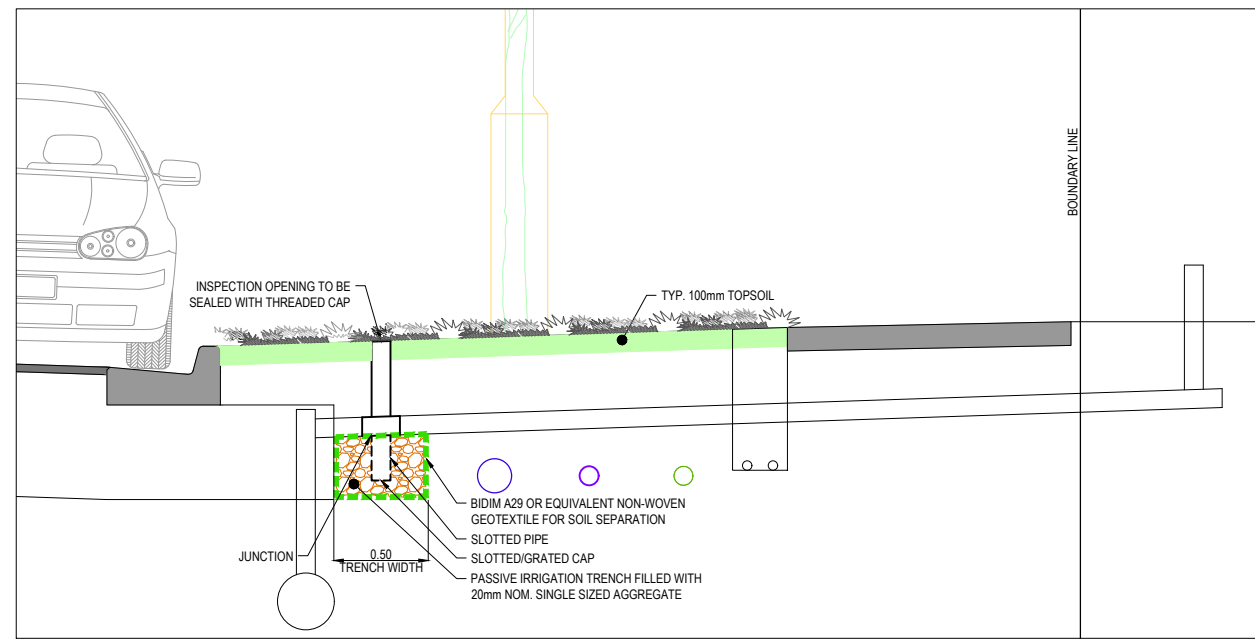
**SERVICE OFFSET TABLE**

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ERNSTBROOK DRIVE	W	2.10	W	2.60	W	3.10	E	2.60	E	1.90	E	Ex 6.44
VIRIDIAN BOULEVARD	S	2.10	S	2.60	S	3.10	N	5.10	N	4.40	-	-

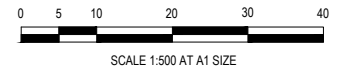
NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS



PASSIVE IRRIGATION TRENCH DETAIL PLAN - HOUSE DRAIN  
SCALE 1:20



PASSIVE IRRIGATION TRENCH DETAIL SECTION - HOUSE DRAIN  
SCALE 1:20



**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  
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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed K. LIM WAN  
Date 29.07.2025  
Drawn M.F. JAURIGUE  
Checked A. PHILALAY  
Date 01.08.2025  
Approved A. PHILALAY  
Reg. No. PE0132014  
Date 01.08.2025  
PS Number PSS33889S

**BW Beveridge Williams**  
Development & Infrastructure Consultants  
1 Glenferrie Road  
Malvern VIC 3144  
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Project Details  
RIVERFIELD  
STAGE 35  
CITY OF CASEY

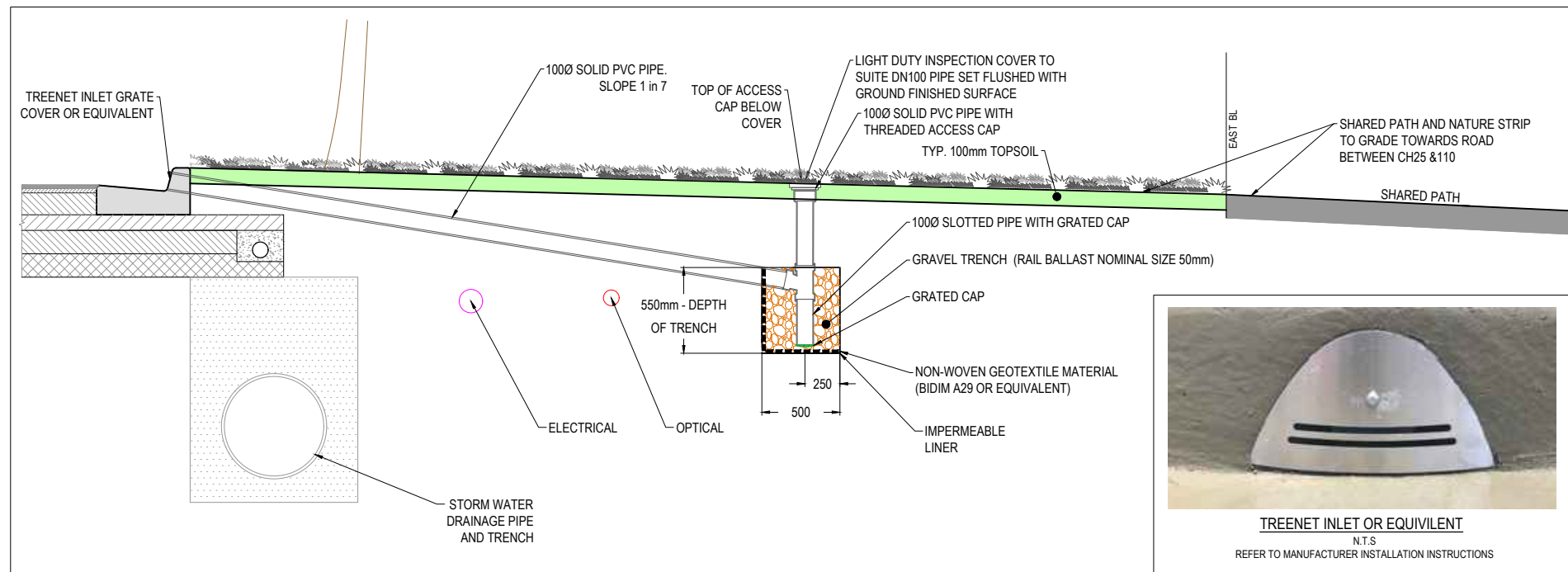
Drawing Title  
IRRIGATION PLAN  
(SHEET 1 OF 2)

Sheet 20 of 21

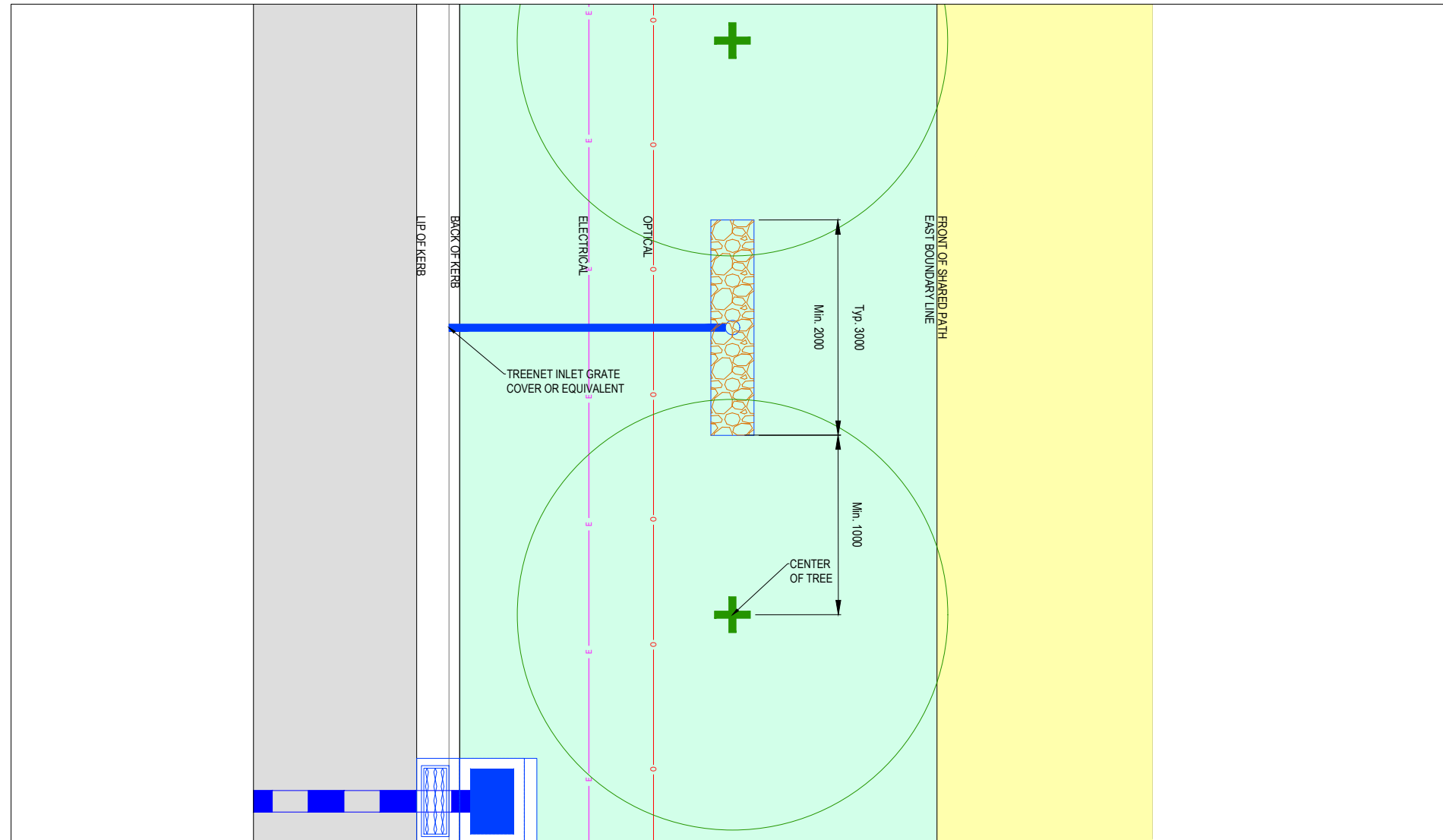
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Project Ref Stage No Drawing No Rev  
2101578 35 480 A

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PASSIVE IRRIGATION TRENCH DETAIL SECTION - KERB INLET  
SCALE 1:20



PASSIVE IRRIGATION TRENCH DETAIL PLAN - KERB INLET  
SCALE 1:40

**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

**ISSUED FOR CONSTRUCTION**

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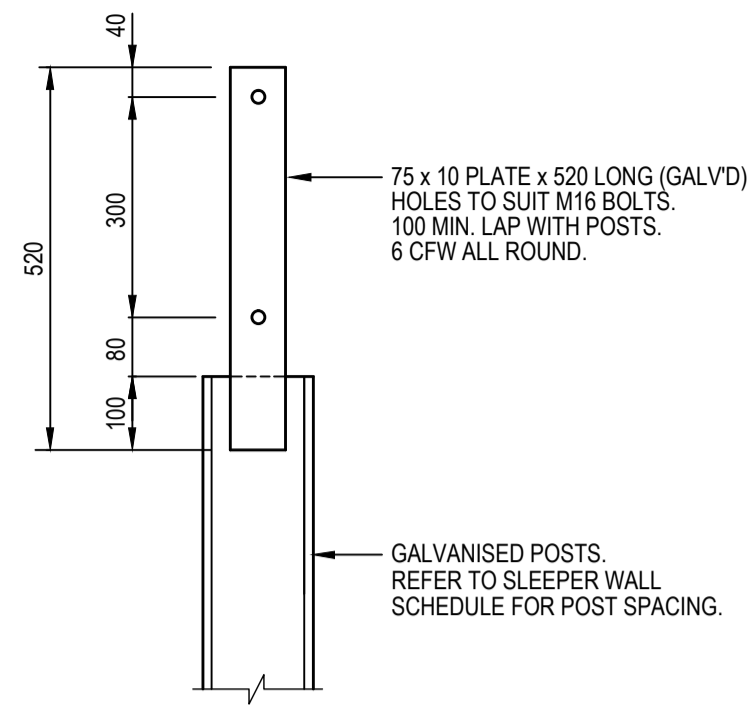
Project Details  
RIVERFIELD  
STAGE 35  
CITY OF CASEY  
Drawing Title  
IRRIGATION PLAN  
(SHEET 2 OF 2)

Sheet 21 of 21

Scale  
AS SHOWN

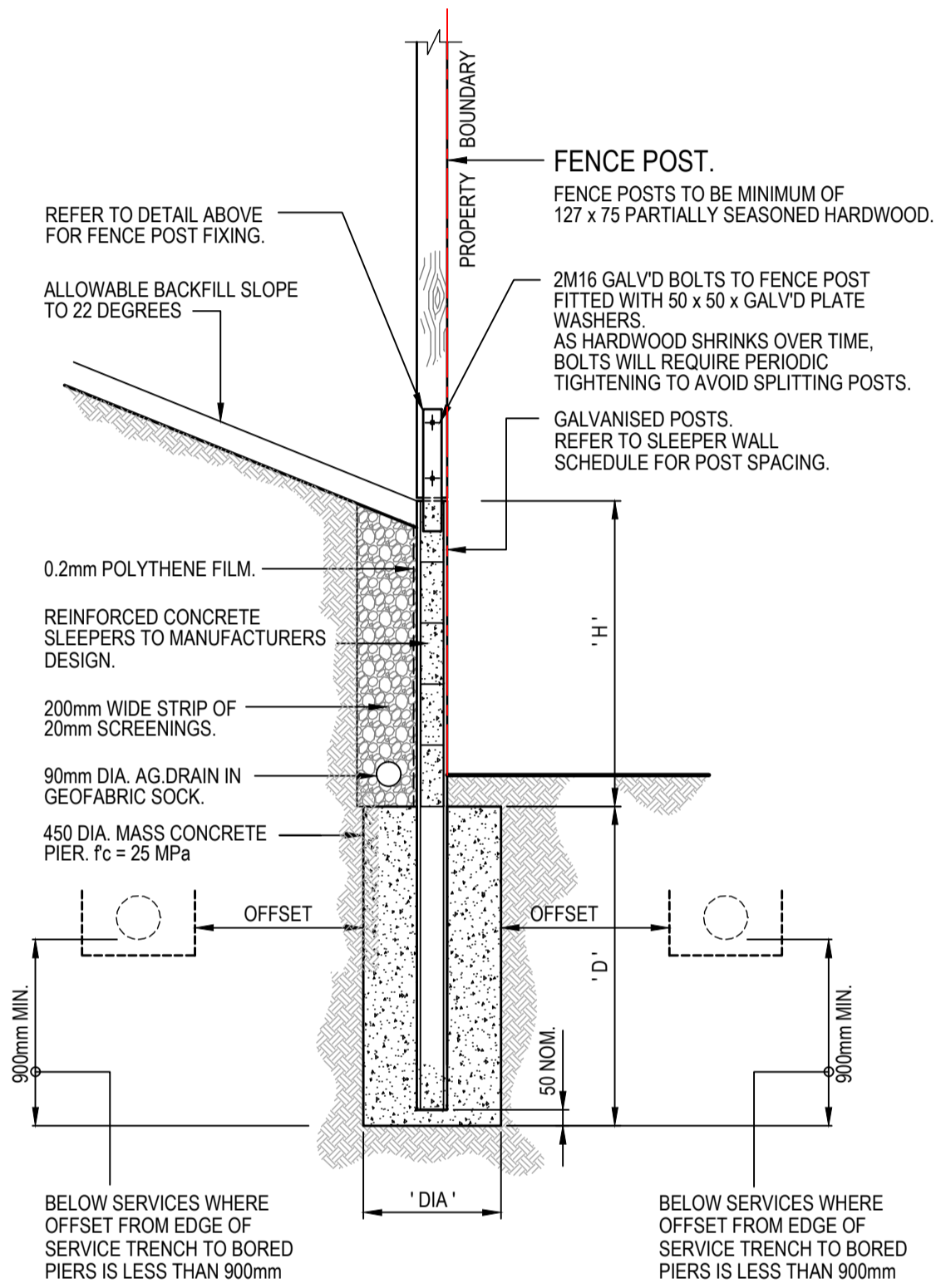


Project Ref	Stage No	Drawing No	Rev
2101578	35	481	A



**FENCE POST FIXING PLATE DETAIL**

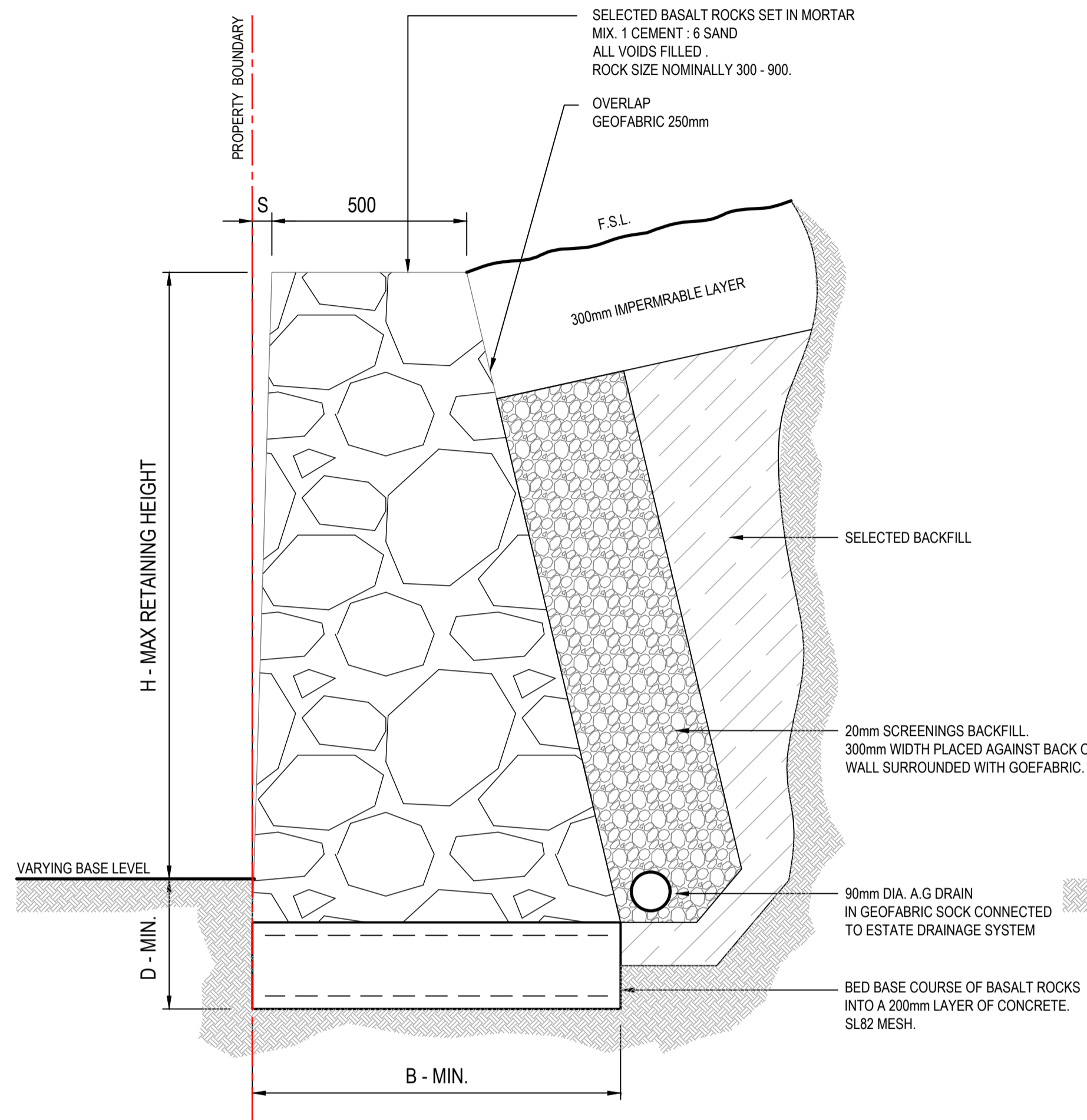
SCALE 1:10



**REINFORCED CONCRETE SLEEPER RETAINING WALL WITH 1.8m HIGH PAILING OR COLORBOND FENCE**

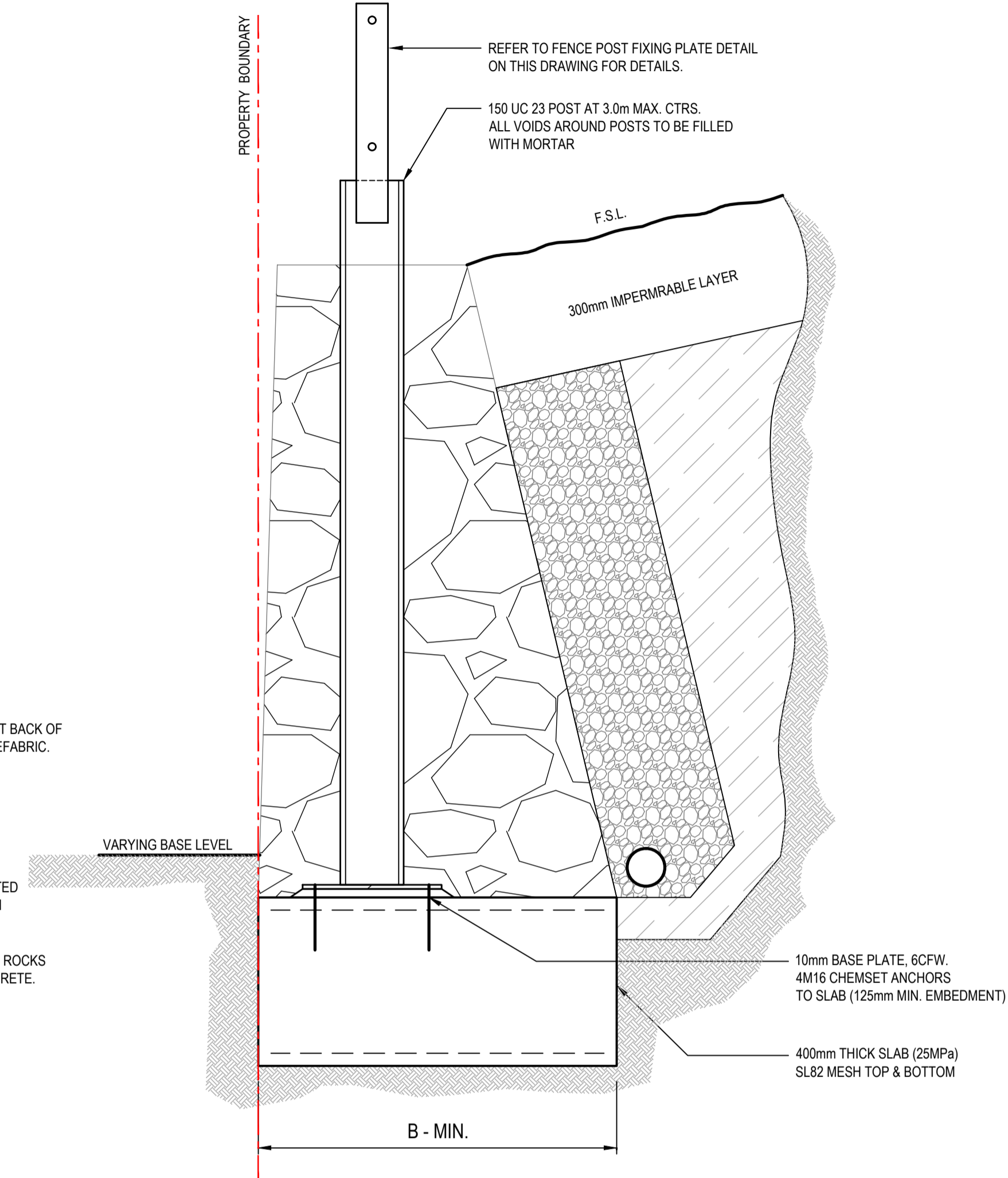
SCALE 1:20

- REFER BEVERIDGE WILLIAMS DRAWINGS FOR WALL LOCATIONS AND HEIGHTS.
- WHERE BASALT IS PRESENT, THE BORED PIER FOOTINGS SHALL BE SOCKETED 900mm MINIMUM INTO SOLID UNDISTURBED BEDROCK



**MASS ROCK RETAINING WALL DETAIL**

SCALE 1:10



**MASS ROCK RETAINING WALL DETAIL WITH FENCE**

SCALE 1:10

**CONCRETE NOTES**

- ALL CONCRETE BASED ON  $F_c = 25\text{MPa}$  NORMAL CONCRETE MIX.
- CONCRETE SLUMP TO BE 80mm WITH A MAXIMUM AGGREGATE SIZE = 20mm.
- CONCRETE THICKNESS NOMINATED ARE MINIMUM STRUCTURAL REQUIREMENTS.
- ALL REINFORCEMENT TO BE 'N' TYPE HOT ROLLED DEFORMED BARS IN ACCORDANCE WITH AS4711 AND BE GRADE D500N.
- ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED AND MAINTAINED IN CORRECT POSITION DURING CONCRETING.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554.3
- ALL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE AS3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.

**STEELWORK**

CORROSION PROTECTION OF STEELWORK SHALL BE AS FOLLOWS. STEELWORK PERMANENTLY EXPOSED TO WEATHER OR AGGRESSIVE ENVIRONMENT SHALL BE HOT DIPPED GALVANISED.

ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 S.A STEEL STRUCTURES. WELDING SHALL BE PERFORMED BY A QUALIFIED OPERATOR IN ACCORDANCE WITH AS1554.3 UNLESS STATED OTHERWISE.

- A. ALL CLEATS, GUSSETS & END PLATES SHALL BE 10mm THICK.
- B. WELDING ELECTRODE SHALL BE E48XX.
- C. ALL FILLET WELDS SHALL BE 6mm CONTINUOUS.
- D. ALL BUTT WELDS SHALL BE FULL PENETRATION.
- E. BOLT HOLE CLEARANCE SHALL BE 2mm.
- F. ALL WELDS SHALL BE STRUCTURAL PURPOSE.

THE GRADE OF STRUCTURAL STEEL SHALL BE AS FOLLOWS U.N.O.

SECTION	GRADE (MPa)
HOT ROLLED SECTIONS	300

**MASS CONCRETE RETAINING WALL FOOTING NOTES**

TOE OF WALL SHALL PENETRATE THROUGH ANY FILL MATERIAL & THE NATURAL SILT SOILS TO BE FOUNDED AT LEAST 100mm INTO THE UNDERLYING NATURAL STIFF CLAY OR WEATHERED ROCK.

ALL EXCAVATIONS SHALL HAVE FOUNDING DEPTHS & BEARING CAPACITY APPROVED BY THE ENGINEER OR BUILDING SURVEYOR BEFORE CONCRETE IS PLACED.

FOOTING EXCAVATIONS WHICH ARE DEEPEMED TO PENETRATE THROUGH UNSUITABLE SOILS SHALL BE BACKFILLED UP TO UNDERSIDE OF FOOTINGS WITH 15 MPa BLINDING CONCRETE.

ALL EXCAVATION FOUNDING SURFACES SHALL BE LEVEL (NOT INCLINED), CLEAN CUT & FREE OF MUD OR WATER.

ALL SEEPAGE INFLOW SHALL BE REMOVED BEFORE PLACEMENT OF CONCRETE.

FOOTINGS SHALL BE FOUNDED IN STIFF NATURAL CLAY HAVING A SAFE BEARING CAPACITY OF 100 kPa.

**SLEEPER WALL SCHEDULE**

SPACING OF POSTS (mm)	RETAINED HEIGHT 'H' (mm)	DEPTH 'D' (mm)	POST SIZE	DIAMETER 'DIA' OF PIER (mm)
2400	0 - 600mm	1000	150 UB 14	450
2400	601 - 800mm	1400	150 UB 14	450
2400	801 - 1000mm	1800	150 UB 14	450
2400	1001 - 1200mm	2100	150 UB 14	450
2400	1201 - 1400mm	2400	150 UB 18	450
2400	1401 - 1600mm	2700	150 UB 18	450
2400	1601 - 1800mm	3000	200 UB 22	450

**MASS ROCK RETAINING WALL SCHEDULE**

MAX WALL HEIGHT (mm)	FOUNDING DEPTH - D (mm)	BASE WIDTH - B (mm)	FRONT FACE SETBACK - S (mm)
500	400	515	15
1000	400	600	30
1500	400	1000	45
1800	400	1200	60

**RETAINING WALL NOTE:**  
THE RETAINING WALL DESIGN ASSUMES THAT ALL FILLING USED ON SITE IS APPROVED IMPORTED MATERIAL THAT HAS BEEN COMPACTED IN LAYERS TO MINIMUM OF 95% STANDARD COMPACTION IN ACCORDANCE WITH AS1289 AND THAT THE FILLING HAS BEEN PLACED UNDER CLASS 1 GEOTECHNICAL ENGINEER SUPERVISION IN ACCORDANCE WITH AS3786. SHOULD THIS BE FOUND NOT TO BE THE CASE DURING THE CONSTRUCTION PROCESS, REDESIGN OF RETAINING WALLS WILL BE REQUIRED.

**MASS ROCK RETAINING WALL SCHEDULE**

MAX WALL HEIGHT (mm)	FOUNDING DEPTH - D (mm)	BASE WIDTH - B (mm)	FRONT FACE SETBACK - S (mm)
500	400	515	15
1000	400	600	30
1500	400	1000	45
1800	400	1200	60

**NOTE 1:**  
ALL STEELWORK TO BE HOT DIP GALVANISED AFTER FABRICATION.



REVISIONS

REVISION	DETAILS	DATE	APPROVED
P2	APPROVAL ISSUE	30.08.2024	MA
P1	APPROVAL ISSUE	26.08.2024	MA

APPROVAL

CIVIL	
Designed M ALLAN	Date APRIL 2023
Drawn M.T	Scale AS SHOWN @ A1 SHEET



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Project Title :

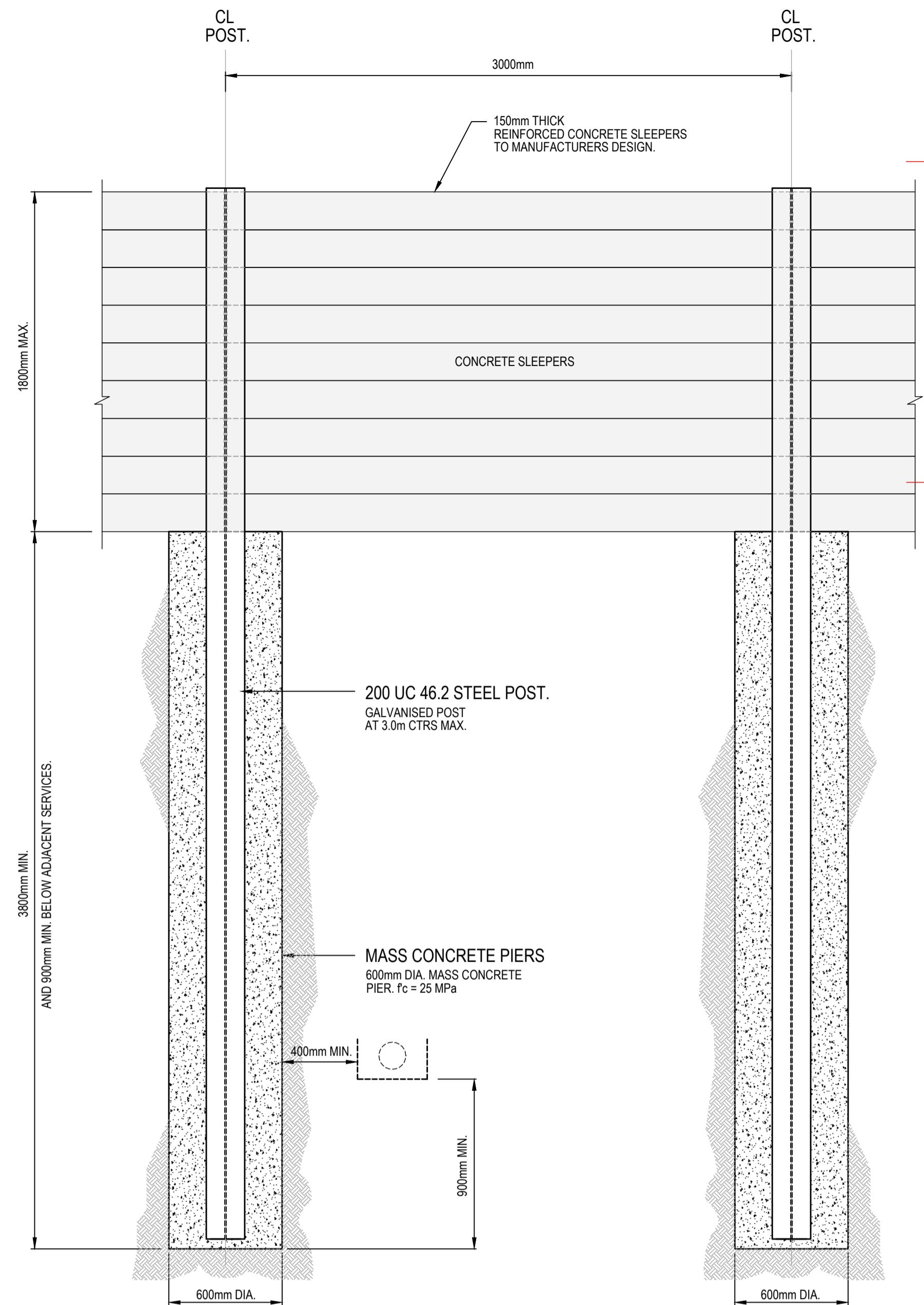
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1675 BALLATO ROAD,  
CLYDE NORTH

Drawing Title :

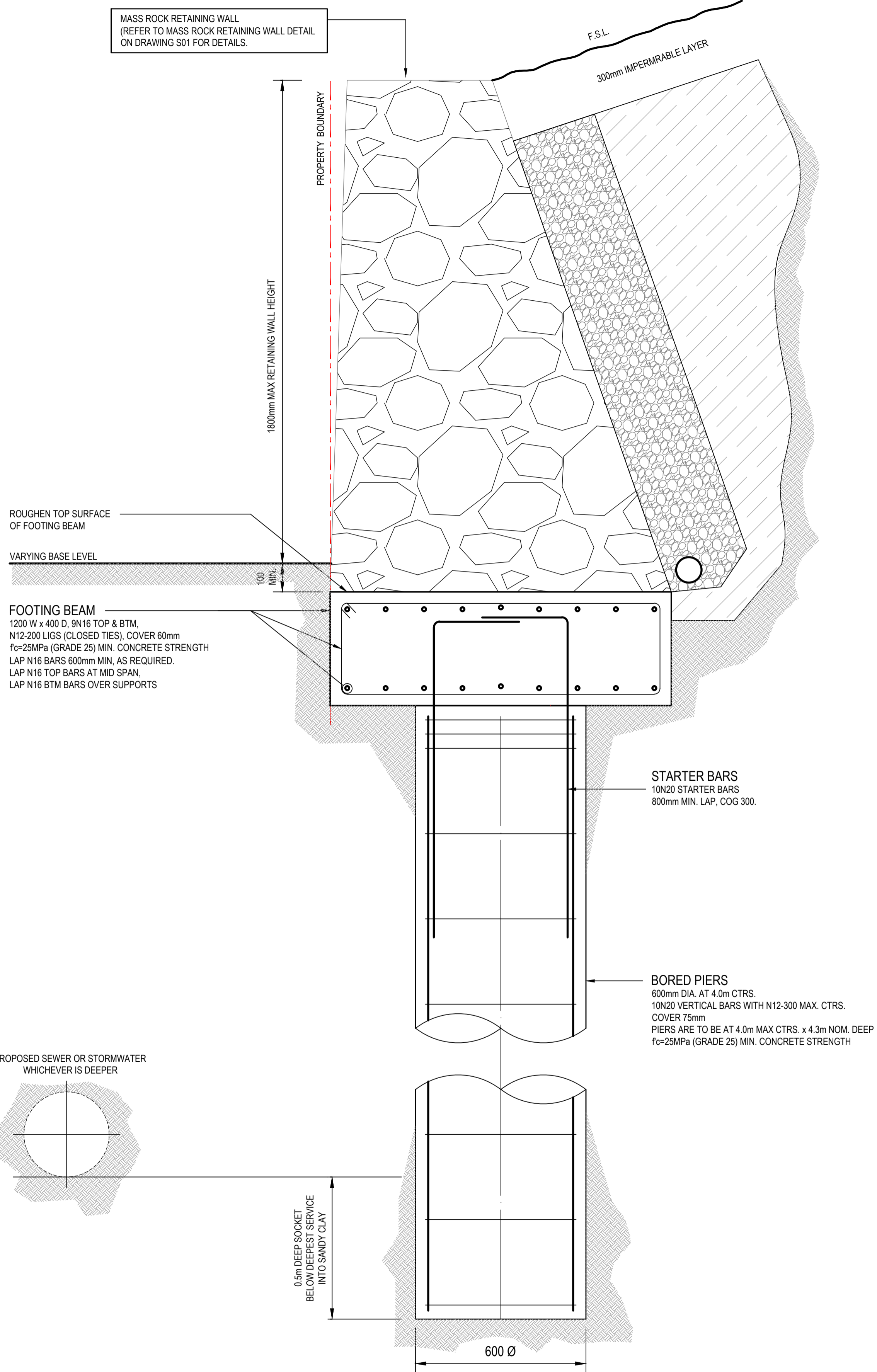
**RETAINING WALL DETAILS**  
SHEET 1

Drawing No :

**177-01-S01**



RETAINING WALL DETAIL  
CONCRETE SLEEPER WITH 3.0m SPAN



MASS ROCK RETAINING WALL ON PIERS NEAR PARALLEL SEWER OR STORMWATER DETAIL  
SCALE 1:10



REVISION	DATE	APPROVED
P2	30.08.2024	MA
P1	26.08.2024	MA
REVISION	DATE	APPROVED

APPROVAL

CIVIL	
Designed M ALLAN	Date APRIL 2023
Drawn M.T	Scale AS SHOWN @ A1 SHEET

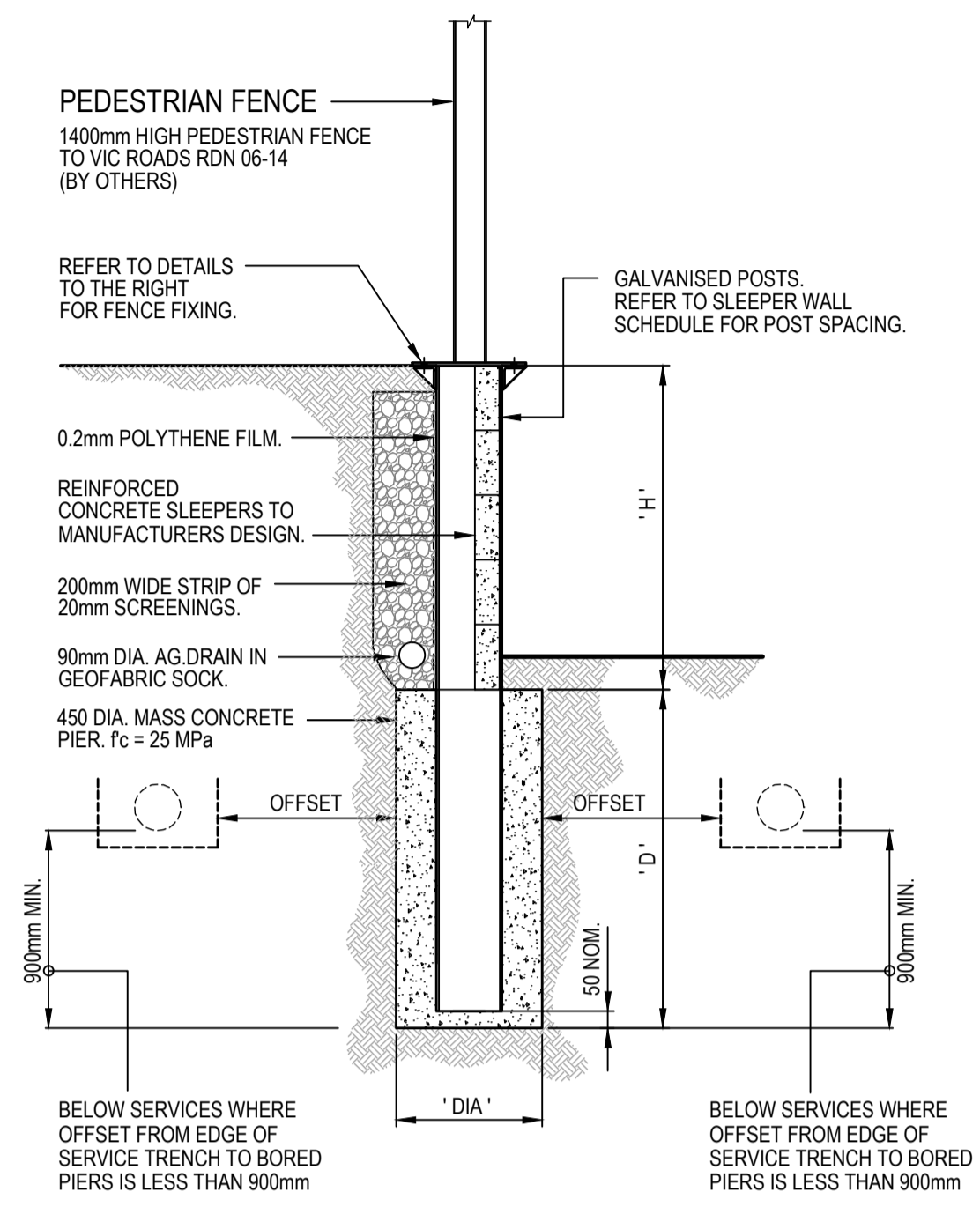


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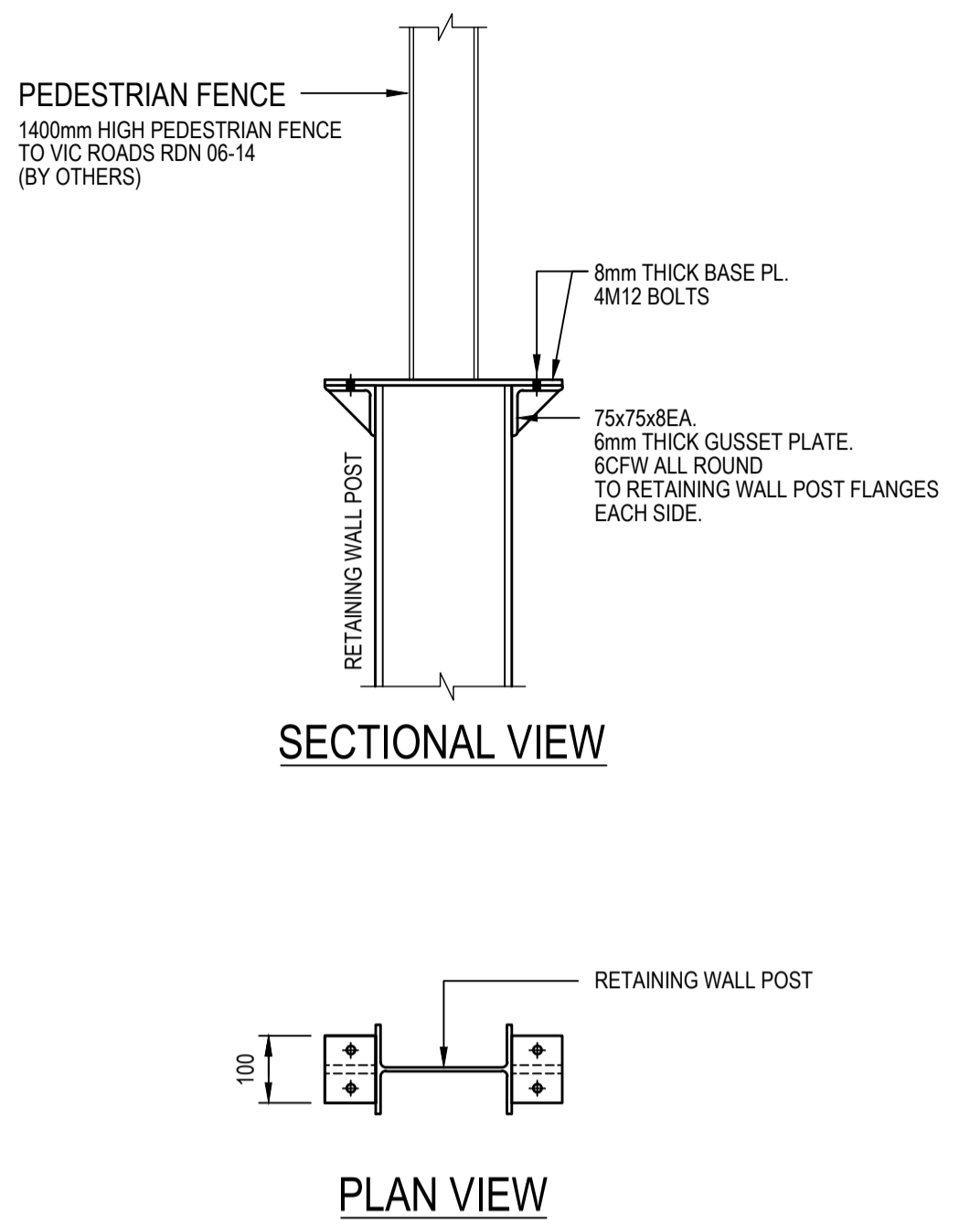
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**RETAINING WALL DETAILS**  
SHEET 2

Drawing No :  
**177-01-S02**

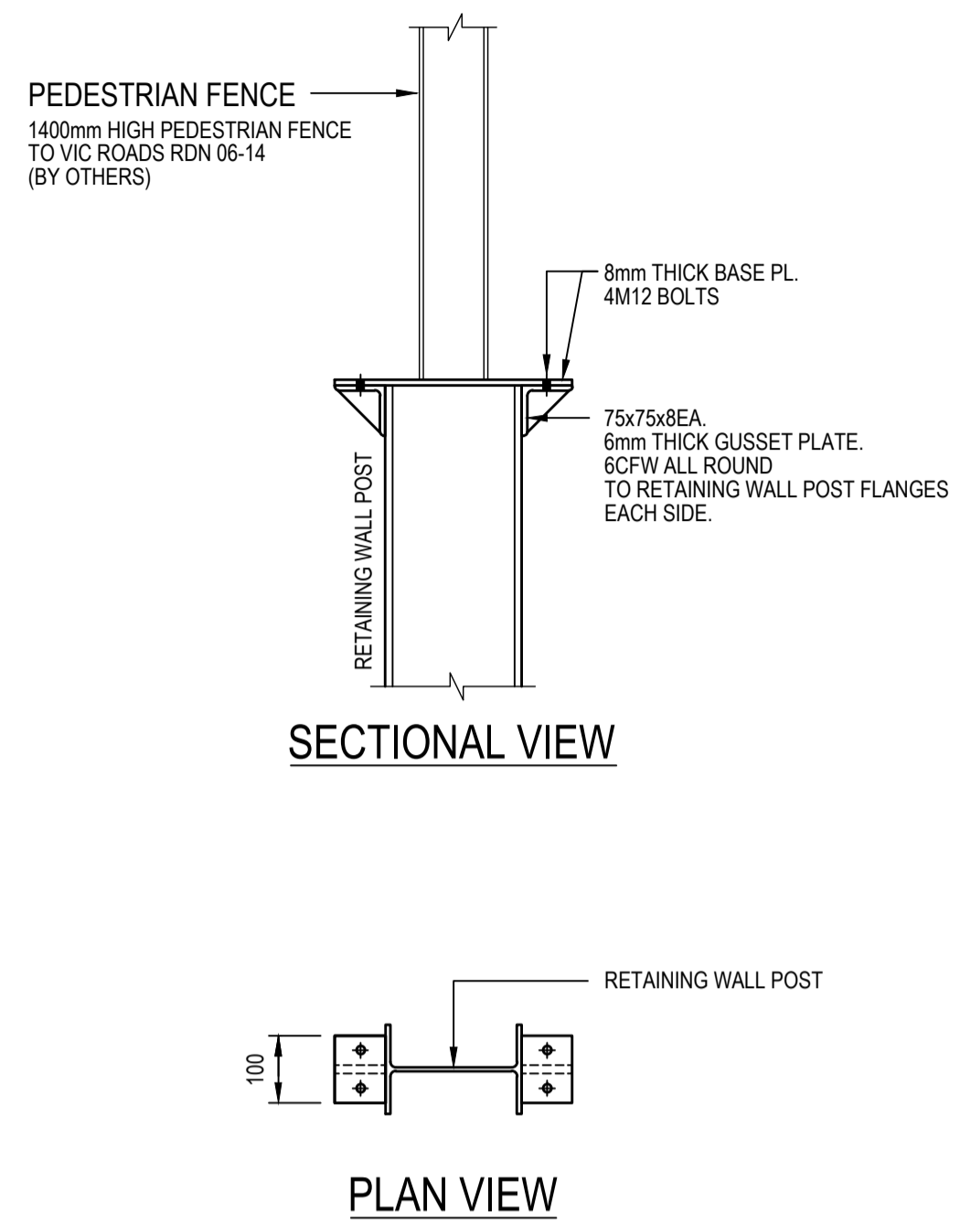


**REINFORCED CONCRETE SLEEPER RETAINING WALL WITH 1.4m HIGH PEDESTRIAN FENCE TO VIC ROADS STANDARDS**  
SCALE 1:20

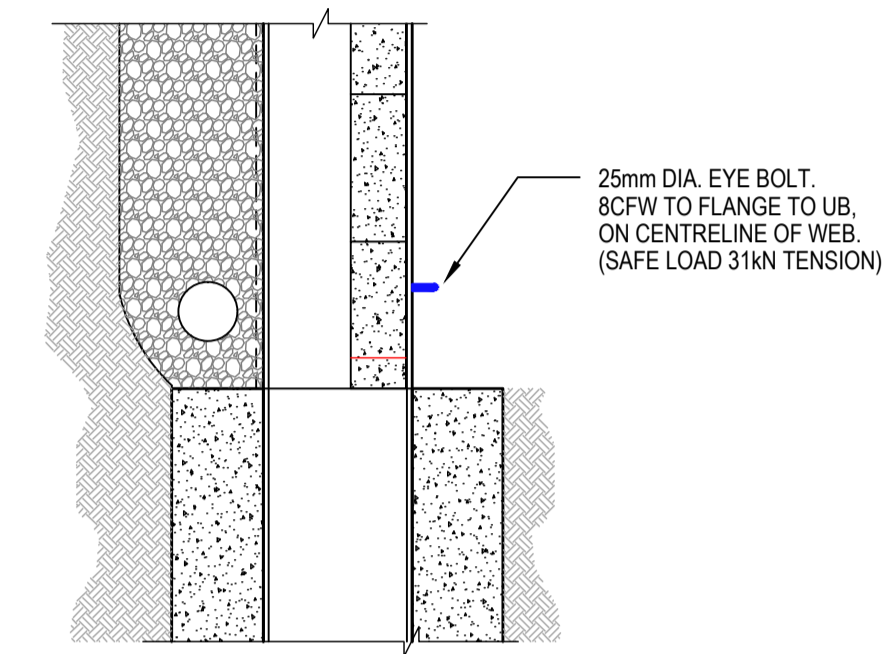
- REFER BEVERIDGE WILLIAMS DRAWINGS FOR WALL LOCATIONS AND HEIGHTS.
- WHERE BASALT IS PRESENT, THE BORED PIER FOOTINGS SHALL BE SOCKETED 900mm MINIMUM INTO SOLID UNDISTURBED BEDROCK



**FENCE POST BASE FIXING DETAIL TO 150 UB**  
SCALE 1:10



**FENCE POST BASE FIXING DETAIL TO 200 UB**  
SCALE 1:10



**TYPICAL ELECTRICAL EYE BOLT DETAIL**  
SCALE 1:10

**SLEEPER WALL SCHEDULE**

SPACING OF POSTS (mm)	RETAINED HEIGHT 'H' (mm)	DEPTH 'D' (mm)	POST SIZE	DIAMETER 'DIA' OF PIER (mm)
2400	0 - 600mm	1300	150 UB 14	450
2400	601 - 800mm	1700	150 UB 14	450
2400	801 - 1000mm	2000	150 UB 14	450
2400	1001 - 1200mm	2400	150 UB 14	450
2400	1201 - 1400mm	2700	150 UB 18	450
2400	1401 - 1600mm	3000	150 UB 18	450
2400	1601 - 1800mm	3300	200 UB 22	450



REVISIONS

REVISION	DATE	APPROVED
P2	30.08.2024	MA
P1	26.08.2024	MA

APPROVAL

CIVIL	
Designed M ALLAN	Date APRIL 2023
Drawn M.T	Scale AS SHOWN @ A1 SHEET

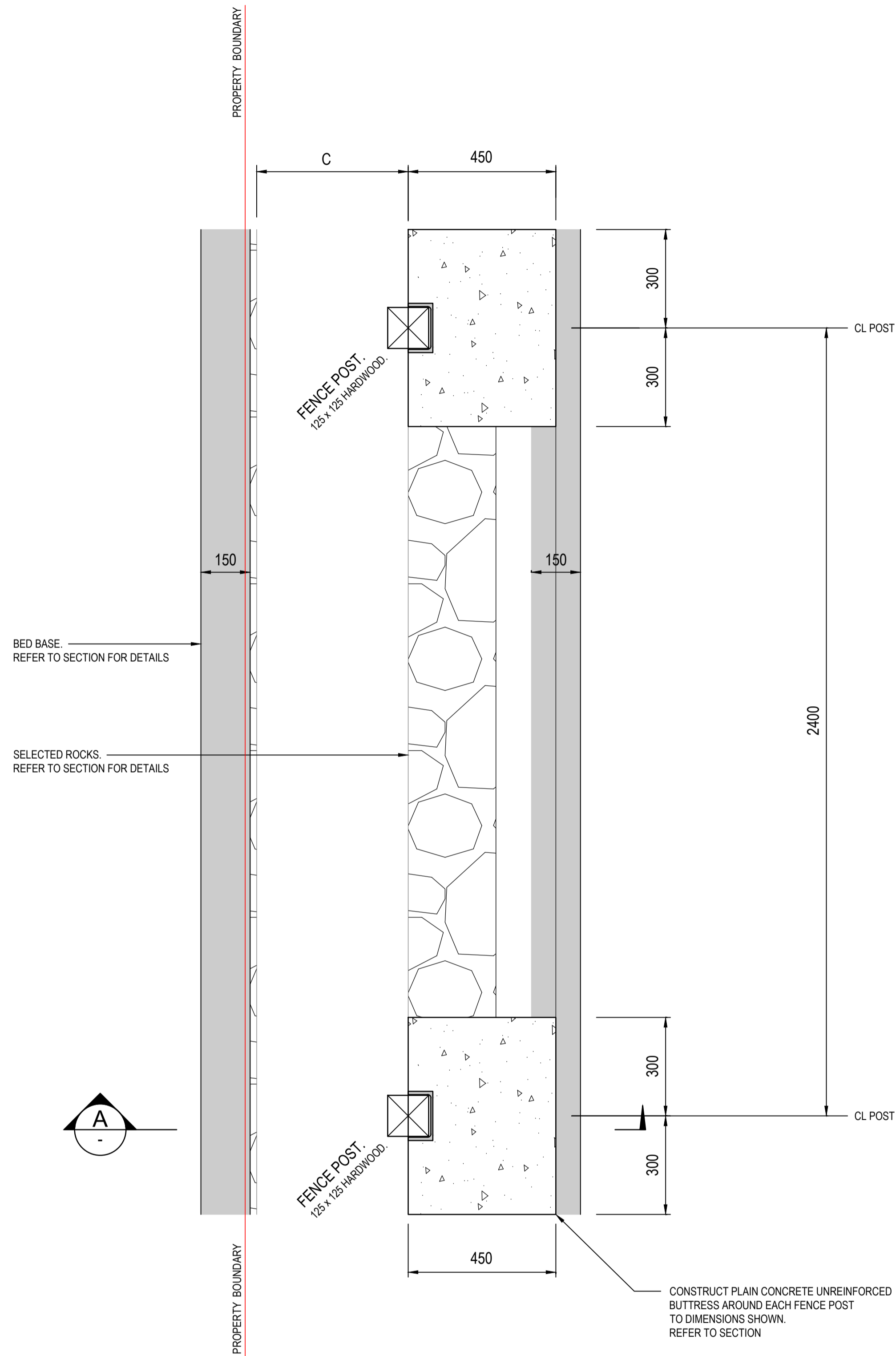


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Project Title :  
**RIVERFIELD SQUARE ESTATE**  
1675 BALLATO ROAD,  
CLYDE NORTH

Drawing Title :  
**RETAINING WALL DETAILS**  
SHEET 3

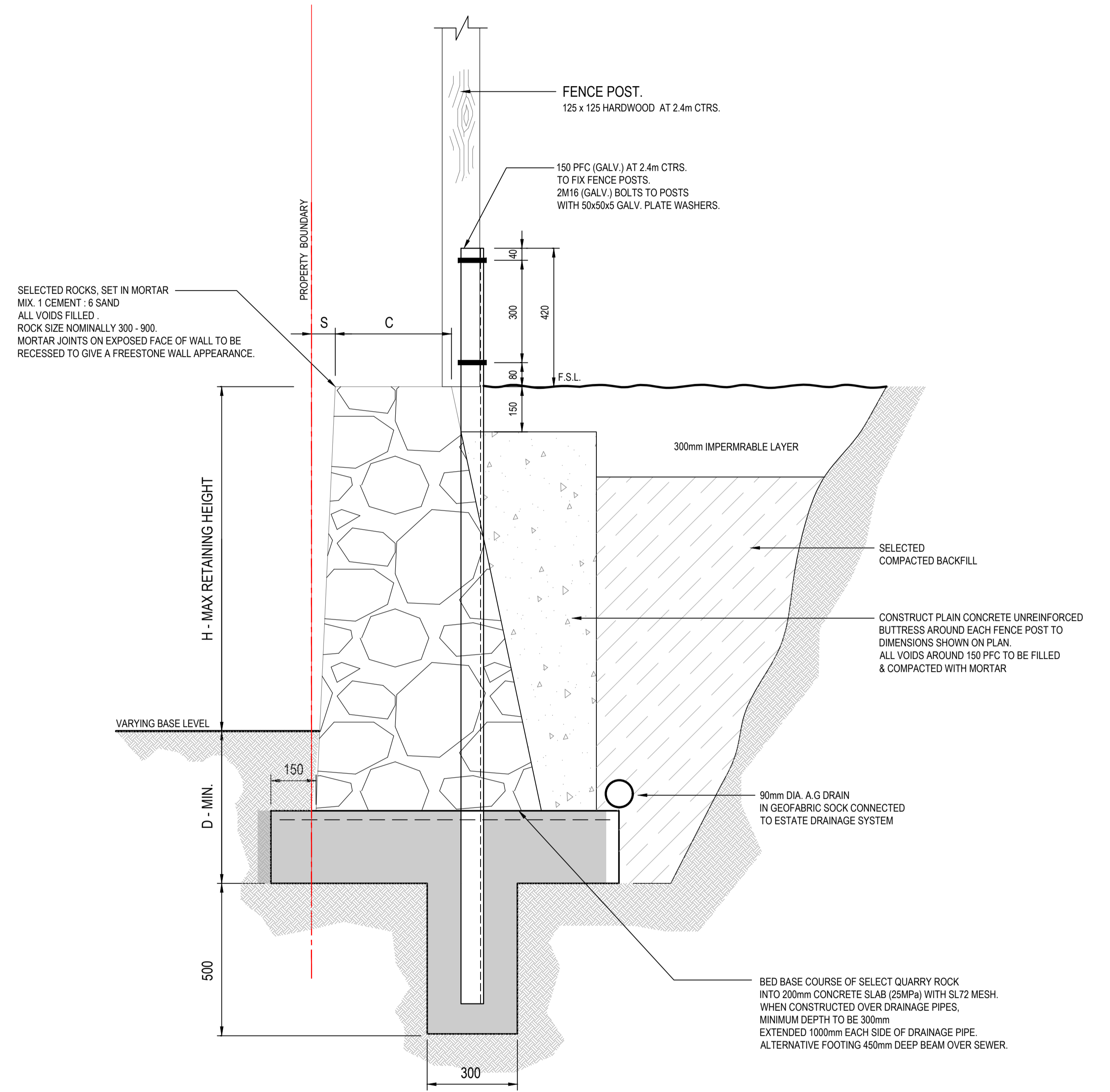
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**177-01-S03**  
P2



PLAN VIEW

**MASS ROCK RETAINING WALL DETAIL WITH PAILING TIMBER FENCE - TYPE RR**

SCALE 1:10



SECTION A-A

**MASS ROCK RETAINING WALL DETAIL WITH PAILING TIMBER FENCE - TYPE RR**

SCALE 1:10



REVISIONS			
NO.	REVISION	DATE	APPROVED
P1	APPROVAL ISSUE DETAILS	30.08.2024	MA
REVISION	DETAILS	DATE	APPROVED

APPROVAL

CIVIL	
Designed M ALLAN	Date APRIL 2023
Drawn M.T	Scale AS SHOWN @ A1 SHEET



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**RIVERFIELD SQUARE ESTATE**  
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Drawing Title :  
**RETAINING WALL DETAILS**  
SHEET 4

Drawing No :  
**177-01-S04**