RIVERFIELD SQUARE - STAGE 21 BROWN PROPERTY GROUP CITY OF CASEY

DRAWING INDEX

COVER SHEET

TYPICAL ROAD CROSS SECTIONS

DRAWING No.

2101578-21-001

2101578-21-002

CONSTRUCTION NOTES

SITE MANAGEMENT

- 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 comm if works
- A2. All native trees & shrubs to be retained unless road construction ne 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 Existing dani of watercourses to be extravated to a minimuse a backning 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 Managemen Find to Commencement of works, are ordinated on mass source of the realing primer Pina (SMP) to the consultant for approval. The contractor must comply with the recommendations of the Environment Protection Authority publication No.275 "Construction techniques for seatiment pollution control". Appropriate sililation control is to be maintained throughout the construction & maintenance period of the
- Provide temporary safety barrier fence (Farm Fence as per MW Std Dwg A5. 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 ound drainage is installed
- Contractor to remove existing irrigation & drainage pipes & pits encountered on site Trenches to be backfilled in accordance with notes C2 & C3.
- An environmental management plan (EMP) must be submitted to and approved by A7. Council prior to the commencement of any works on site and all works must be carried out in accordance with this EMP.
- A8 A traffic management plan (TMP) must be submitted to, and approved by Council or to the con arried out in accordance with this TMP.

GENERAL

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D REVISION TABLE UPDATE

C REVISION TABLE UPDATE

B REVISION TABLE UPDATE

A ISSUED FOR CONSTRUCTION

DESCRIPTIC

- All works to be carried out in accordance with AS2124-1992 general conditions of contract & the City of Casey and EDCM current specification & standard drawings All works & 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 (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 n site. No surplus trees, vegetation or other material is to be burnt on site
- Reserves to be free draining & to be left in a condition satisfactory to the City of B6. Casey works superviso

	NO. 7 551 1	
Coordinates are on a local pl	ane datum based upon MGA Zone 55 bearings	
and truncated MGA Zone 55	co-ordinates at PM103 (CRANBOURNE).	TBM
Heights are to AHD vide Per	manent Mark PM 52 (SHERWOOD) RL 8.611.	TBN
		TB
Plane Grid Coordinates to M	GA2020 Zone 55 Grid Coordinates Conversion.	TBI
Plane Grid Coordinates to M (PLANE SHIFT)	GA2020 Zone 55 Grid Coordinates Conversion. Add + 350,000.471 to Eastings	TBI PSM PSM
Plane Grid Coordinates to M (PLANE SHIFT)	GA2020 Zone 55 Grid Coordinates Conversion. Add + 350,000.471 to Eastings Add + 5,700,001.511 to Northings	TBI PSM PSM TBM
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- 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.
- All TBM's & control points are to be maintained & protected at all times durin An I DWIS & 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.

B7.

- 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.
- B10. As constructed plans and electronic asset information in D-Spec and R-Spec format must be submitted to Council prior to practical completion
- ROADWORKS 100a agricultural nine 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 ered soil testing laboratory
- Importing Fill:- All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, & any contaminates are within accepted levels. C3. 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
- Batters to be 1 in 5 for fill & 1 in 3 for cut unless noted otherwise C4
- Cut batters are to be grassed & mulched with a mixture of chopped grass, straw & C5. bitumen emulsio
- C6. Where cut batters exceed 700mm an additional 300mm berm shall be formed hehind footpath
- 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. C7.
- 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.
- Irrigation conduits are to be DN100 DWV PVC installed beneath the pavement C9. 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. OPTICOMM 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
- 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 AST422. All line markings is to be long life road marking, with longitudinal lines in thermoplastic & transverse markings in cold applied.

SCHEDULE

DESCRIPTION

TBM/PSM	EASTING	NORTHING	LEVEL	DESCRIPTION
TBM MA4	4897.48	78675.29	24.18	RIVET
PSM PM1750	5126.53	78658.10	21.38	PSM
PSM PM1752	5317.22	78633.19	18.56	PSM
TBM DR21	5038.77	78452.21	21.87	STAR PICKET
TBM DR18	5306.13	78393.46	17.45	STAR PICKET
PSM PM1772	5476.78	78612.16	17.55	PSM
PSM PM1772	5476.78	78612.16	17.55	PSM

- 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 show
 - C16. Kerb transition to take place in the minor street over a 2.0m length from either th 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 curv alignment to the satisfaction of the engineer
 - C19. Tactile ground surface indicators (TGSI) are to be installed at all pram cro pedestrian cross points in accordance with AS1428.4 · 2002 & MPA stand drawing EDCM 403.
 - C20. If any existing substandard filling is encountered on the site it must be rer replaced with approved fill material property compacted to Council requir geo-technical report must be submitted showing details of depth, type of and density of the fill areas concerned.

DRAINAGE

- Drainage & pits to be set out from offsets shown rather than from centrelin chainages. Centreline of pits at TP's to be offset 1.00
- D2. Lightweight fibreglass type pit lids are required for all drainage pits & all g pits are to be Class D, to comply with AS3996 unless otherwise shown. A drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring join Pipes above this size may be flush jointed with kertrand sealing bunds. Fo greater than 900mm and changes in direction between 2 connecting pipe secceding 10° construct segmented curves using splayed pipes with barn joints, having deflections within the manufacture's specification.
- All pipes to be Class '2' R.C. rubber ring joint unless noted otherwise. F D4. to be Class SH unless specified.
- Pipe trenches beneath the road pavement, footpath or within 150mm of th channel to be backfilled with 20mm Class 3 FCR in 150mm layers. D5.
- Property inlets to be constructed as per MPA standard drawing EDCM 70 D6.
- D7. All proposed drainage stubs to be blanked off at end of pipe with timber p the satisfaction of the supervising engineer
- D8. A CCTV report must be provided for all drainage lines prior to issue of pr

PAVEMENT

Modification of the pavement requires approval by the City of Casey work superviso

- C	2101578-21-003	PAVEMENT MAKEUP & GENERAL DETAILS	C
linear 🕻	2101578-21-004	GENERAL DETAILS	В
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(2101578-21-013	LAYOUT PLAN (SHEET 4 OF 4)	В
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TITLE

City of Casey Approved By: Irshad Ghazi lanning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Approval subject to: Approval of an Environ ntal Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the

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Project Details

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BASE COURSE: 30mm DEPTH SIZE 10mm TYPE N ASPHALT WITH A C170 BINDER

CONSTRUCTION ISSUE

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LEGEND - LAY	OUT PLAN	
<u> </u>	STORMWATER DRAIN PIT & PROPERTY INLET	
	MELBOURNE WATER DRAIN & PIT	
	SWALE DRAIN	
s	SEWER & MAINTENANCE STRUCTURES	
	HOUSE DRAIN	
	SERVICE CONDUITS	
	TACTILE PAVERS (INDICATIVE ONLY)	
— E —	ELECTRICITY (UNDERGROUND)	
	ELECTRICITY (OVERHEAD)	
— o —	OPTIC FIBRE	
— т —	TELECOMMUNICATIONS	
— G —	GAS	
— DW —	WATER	
- NDW -	RECYCLED WATER	
ExE	EXISTING ELECTRICITY (UNDERGROUND)	
ExO/H E	EXISTING ELECTRICITY (OVERHEAD)	
ExG	EXISTING GAS	
Ex0	EXISTING OPTIC FIBRE	
ExT	EXISTING TELECOMMUNICATIONS	
ExDW	EXISTING WATER	
ExNDW	EXISTING RECYCLED WATER	
	EXISTING STORMWATER DRAIN	
	EXISTING MELBOURNE WATER DRAIN	
G— Ex S —	EXISTING SEWER	
H	EXISTING HOUSE DRAIN	
>	EXISTING SWALE DRAIN	
141.34	EXISTING SURFACE LEVEL	
FS140.35		
TW159.30		
BW159.30	BOTTOM OF RETAINING WALL	
	BIDGE LINE	
8B	ROCK RETAINING WALL	
K	CONCRETE RETAINING WALL	
	ZERO LOT LINES	
	PAVEMENT TREATMENT	
	STRUCTURAL FILL > 200mm DEEP	
	EX. STRUCTURAL FILL > 200mm DEEP	
\Rightarrow	DIRECTION OF FALL	
\rightarrow	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	
\mathbb{C}	EXISTING TREE TO BE REMOVED	
1	PERMANENT SURVEY MARK	
- `	I EMPORARY BENCH MARK	
75	PROPOSED DRIVEWAY	
1773	TREE PROTECTION ZONE (TPZ)	
1-1		

LEGEND:						
	PAVEMENT TREATMENT STRUCTURAL FILL > 200mm DEEP EX. STRUCTURAL FILL > 200mm DEEP LOT HATCHING ROAD PAVEMENT FOOTPATH DRIVEWAY INDUSTRIAL STRENGTH DRV / LANEWAYS NATURE STRIP RESERVES ELECTRICAL KIOSK DRAINAGE RESERVE MAINTENANCE ACCESS TRACK DRY OUT AREA					

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 DIAL 1100 BEFORE YOU DIG

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LEGEND - LAY	OUT PLAN
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<u> </u>	SEWED & MAINTENANCE STRUCTURES
F	ELECTRICITY (UNDERGROUND)
	ELECTRICITY (OVERHEAD)
o	OPTIC FIBRE
— ī —	TELECOMMUNICATIONS
G	GAS
— DW —	WATER
- NDW -	RECYCLED WATER
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ExT	EXISTING TELECOMMUNICATIONS
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	EXISTING MELBOURNE WATER DRAIN
G— Ex S —	EXISTING SEWER
— — —H	EXISTING HOUSE DRAIN
>>	EXISTING SWALE DRAIN
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
TW159.30	TOP OF RETAINING WALL
BW159.30	BOTTOM OF RETAINING WALL
	RIDGE LINE
88	ROCK RETAINING WALL
8B	CONCRETE RETAINING WALL
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— DW —	WATER	
— NDW —	RECYCLED WATER	
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	EXISTING ELECTRICITY (OVERHEAD)	
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ExT	EXISTING TELECOMMUNICATIONS	
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	EXISTING STORMWATER DRAIN	
	EXISTING MELBOURNE WATER DRAIN	
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141.34	ENISTING SURFACE LEVEL	
FS140.35	FINISHED BUILDING LINE LEVEL	
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COMMUNITIES

DATE DRN. APP.

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DESCRIPTION

23.05.24 AP NB

DATE DRN. APP. REV

DESCRIPTION

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1 Glenferrie Road Malvern VIC 3144 ph: 03 9524 8888 www.beveridgewi

ms.com.a

S.YOUNG

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24.08.22

Approved Date

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20.913 20.907	20.817		20.593	20.417	20.313		20.110	19.713	19.617	19.433	19.217
20.176 20.175	20.154		20.070	20.006	19.957		19.746 19.743	19.634	19.605	19.562	19.336
20.913 20.907	20.817		20.593	20.417	20.313		20.110	19.713	19.617	19.433	19.217
21.241 21.240	21.234		21.302	21.272	21.162		20.744	20.396	20.286	19.936	19.497
20.631 20.630	20.624		20.616	20.550	20.495		20.193	19.968	19.923	19.757	19.404
275.203 275.512	280.000		291.204	300.000	305.205		319.206 320.000	335.206	340.000	349.207	360.000

LEGEND

EXISTING SURFACE - DESIGN LINE

EXISTING SURFACE AT RIGHT BOUNDARY

- · - · - · - · RIGHT LIP OF KERB _____ EXISTING SURFACE AT LEFT BOUNDARY

- - LEFT LIP OF KERB

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CYAN AVENUE LONGITUDINAL SECTION



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CONSTRUCTION ISSUE

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



RIVERFIELD SQUARE STAGE 21 CITY OF CASEY	Sheet				
	scale 1:500 H 1:50 V @ A1				
OAD LONGITUDINAL SECTIONS ERDIGRIS AVENUE	1.000111	.00 1			
	Project Ref	Stage No	Drawing No	Rev	
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ERFIELD SQUARE GE 21 Y OF CASEY		Sheet	11 of	47 @ ^1	
AD LONGITUDINAL SECTIONS		Project Ref	Stage No	Drawing No	Rev

LEGEND

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SINOPIA STREET LONGITUDINAL SECTION

HORIZ 1:500 5 10 30 0 VERT 1:50 0 0.5 SCALE AT A1 SIZE N.BALL 24.08.22 © COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a lic Project Details Date Beveridge Williams **Riverfield** BROWN B.RAU Drawn square 1 Glenferrie Road Malvern VIC 3144 ph: 03 9524 8888 www.beveridgewill S.YOUNG 24.08.22 COMMUNITIES Drawing F Approved Date A ISSUED FOR CONSTRUCTION 23.05.24 AP NB 1 ms.com.au REV DESCRIPTION DATE DRN. APP. REV DESCRIPTION DATE DRN. APP. PS908383U S Number

LEGEND	
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	CONSTRUCTION ISSUE				
RIVERFIELD SQUARE STAGE 21 CITY OF CASEY	Sheet 12 of 47				
ROAD LONGITUDINAL SECTIONS SINOPIA STREET	Project Ref Stage No Drawing No R 2101578 21 103	^{lev}			

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CONSTRUCTION ISSUE

RIVERFIELD SQUARE STAGE 21	Sheet	13 of	47					
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City of Casey Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Approval subject to: -Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the A CCTV report must be provided for all drainage lines prior to Practical completion

MIKADO WAY LONGITUDINAL SECTION



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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION

DATE DRN. APP.

	Designed	N.BALL	
	Date	24.08.22	T
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	Approved Date	S.YOUNG 24.08.22	

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LEGEND	
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CONSTRUCTION ISSUE

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ROAD CROSS SECTIONS	Project Ref	Stage No	Drawing No	Rev
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT

LEGEND

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STRUCTURAL FILL

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REV DESCRIPTION DATE DRN. APP. REV DESCRIPTION DATE	E DRN. APP.	PS Number PS908383U





LEGEND	
	EXISTING SURFACE
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STRUCTURAL FILL REQ AND FOOTPATHS WHEF NATURAL SURFACE. RE FOR SPECIFICATION	UIRED UNDER PAVEMENT RE CONSTRUCTED ABOVE FER GEOTECH REPORT

City of Casey City of Casey Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Approval subject to: -Approval subject to: -Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

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RIVERFIELD SQUARE STAGE 21 CITY OF CASEY	Sheet	19 of	47 @ ∆1				
ROAD CROSS SECTIONS CYAN AVENUE SHEET 1 OF 4)	Project Ref 2101578	Stage No 21	Drawing No 204	Rev A			

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	LEGEND	
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ST Al N/	TRUCTURAL FILL REQUIF ND FOOTPATHS WHERE ATURAL SURFACE, REFE	RED UNDER PAVEMENT CONSTRUCTED ABOVE R GEOTECH REPORT

FOR SPECIFICATION

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FOR SPECIFICATION



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DESCRIPTION

City of Casey Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Approval asubject to: Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the provide accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

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Project Details

Drawing Title

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CONSTRUCTION ISSUE

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

LEGEND

_____ EXISTING SURFACE DESIGN SURFACE

STRUCTURAL FILL

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A ISSUED FOR CONSTRUCTION 23.05.24 AP NB				www.beveridgewilliams.com.au	
REV DESCRIPTION DATE DRN. APP. REV DESCRIPTION DATE	DRN. APP.		PS Number PS908383U		





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

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CONSTRUCTION ISSUE

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- A CCTV report must be provided for all drainage lines prior to Practical completion

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Approval subject to: Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the



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City of Casey

LEGEND

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STRUCTURAL FILL



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

LEGEND

_____ EXISTING SURFACE DESIGN SURFACE

STRUCTURAL FILL

CONSTRUCTION ISSUE

RIVERFIELD SQUARE STAGE 21 CITY OF CASEY		Sheet	25 of	47 @ 41	
ROAD CROSS SECTIONS /ERDIGRIS AVENUE SHEET 3 OF 3)		Project Ref 2101578	Stage No	Drawing No 210	Rev C
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

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







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DATE DRN. APP.

COMMUNITIES

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N.BALL 24.08.22

B.RAU

S.YOUNG 24.08.22

PS908383U

Approved Date

S Number

Project Details Beveridge Williams 1 Glenferrie Road Malvern VIC 3144 ph: 03 9524 8888 www.beveridgewi Drawing Title ms.com.a

Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024



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23.05.24 AP NB

DATE DRN. APP.

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RIVERFIELD SQUARE	Sheet 27 of 47				
CITY OF CASEY	Scale 1.100 H 2	1·50 V	@ A1		
ROAD CROSS SECTIONS	Project Ref	Stare No.	Drawing No	Pov	
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CONSTRUCTION ISSUE

Date: 09/09/20/24 Approval subject to: -Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the - All works to be carried out in accordance with the - A CCTV report must be provided for all drainage lines prior to Practical completion

City of Casey

LEGEND

_____ EXISTING SURFACE DESIGN SURFACE

STRUCTURAL FILL



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DESCRIPTION

DATE DRN. APP. REV

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DATE DRN. APP.

City of Casey Approved By: Irshad Ghazi Planning Ref: **PA22-0687** File No: **SEng00218/22** Council Ref: **R6158** Date : **09/09/2024** Date: U9/U9/2024 Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

Project Details

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CONSTRUCTION ISSUE

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

LEGEND

_____ EXISTING SURFACE DESIGN SURFACE

STRUCTURAL FILL









1 in 50

MASS ROCK RETAINING WALL

STRUCTURAL FILL REQUIRED UNDER PAVEMENT

AND FOOTPATHS WHERE CONSTRUCTED ABOVE FOR SPECIFICATION

1 in 3

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CONSTRUCTION ISSUE

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City of Casey Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Approval subject to: -Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

Project Details

Drawing Title

Beveridge Williams

1 Glenferrie Road Malvern VIC 3144 ph: 03 9524 8888 www.beveridgewill

S.YOUNG 24.08.22

PS908383U

Approved Date

S Number







DATE DRN. APP.

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CONSTRUCTION ISSUE

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

LEGEND

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STRUCTURAL FILL



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					Sauare	Drawn	B.RAU	U
B BOLLARDS ADDED	02.08.24 KLW NB		\square	 COMMUNITIES	square	Approved Date	S.YOUNG	1 Glenferrie Road Malvern VIC 3144
A ISSUED FOR CONSTRUCTION	23.05.24 AP NB						-	pn: 03 9524 8888 www.beveridgewilliams.com.au

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														- FUT	URE ROAD	-	
			·/////////////////////////////////////														
	-				CR	3]					CRB)
DESIGN FLOW (m3/s) CAPACITY (m3/s)	<u> </u>	1.327 1.728	1.331	1.289		1.280 1.745	1.289		1.276 1.728	1.268	1.257		1.188 1.728		1.161 1.576	<u> </u>	<u> </u>
AT GRADE VELOCITY (m/s) PIPE SIZE (mm)	- 2	2	2 2	2.01		- 2.02 -	2.02		2 2	2	2.03 -	~	2 2		1.82	→ 1.82 ×	1.82
	< 1 in 250 ∞	1 in 250 ÷	→ 1 in 250 →			← 1 in 245 →	1 in 245		— 1 in 250 —	→< 1 in 250 =	>= 1 in 241		— 1 in 250 —	·	1 in 300	+	1 in 300 —
DEPTH TO INVERT	2.087	2.144	1.967	1.96.1	1.936	1.906	1.920	1.935 1.005		2.073	1.970	2.135		2.390	0 E76	2.496 2.496 2.415	2.385
H.G.L	14.956 15.041	15.065	2 2 4	15.245	15.337	15.368		15.566 1.5.566		15.676 15.600	15.723	15.825		15.947	200	16.100 16.126 16.126	16.153
INVERT LEVEL	14.300 14.300 14.353	14.383	14.424	14.523	14.660	14.690 14 751	14.751	14.894 14.024		15.004 15.004 15.019	15.049	15.169 15.199		15.336	1 1 1 1 1 1 1	15.448 15.448 15.469	15.499
FINISHED SURFACE	16.387 16.527	16.301		*0+ 0	16.596	16.670		16.829		17.078	2	17.304		17.696	100	17.884	
EXISTING SURFACE	16.387 16.616	16 884 16 884	10000	2	17.488	17 490		17.141		17.082	2	17.508		18.080	40E	18.523	
PIPE CHAINAGE (Reach Length)	000 00 (13.274)	(10.274)	(17.324)	(33.545)	74.417	(14.802)	(35.199)	124.418	(19.995)	144.413 (018'5) 144.413	(28.733)	176.956	(26.695)	203.651	24.711)	234.751 234.751 (6.385)	(50.509)

HORIZ 1:500

VERT 1:50

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1 2 SCALE AT A1 SIZE

^r Riverfield [¬]

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CLYDE

30

Designed Date

Drawn

Approved Date

PS Number





31	Beveridge Willia
	1 Glenferrie Road
	Malvern VIC 3144
	ph: 03 9524 8888
	www.beveridgewilliams.com.au

Villiams	Project Details	F S (
	Drawing Title	[

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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.





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

DENOTES 20mm CLASS 3 FCR BACKFILL.



	CONSTRUCTION ISSUE
RIVERFIELD SQUARE TAGE 21 CITY OF CASEY	Sheet 38 of 47
PRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 8)	Project Ref Stage No Drawing No Rev 2101578 21 400 A

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H.G.L

					HORIZ 1:500 VERT 1:50	0 5 10 20 30 0 0.5 1 2 3 SCALE AT A1 SIZE					CONSTRUCTION ISSUE
© COPYRIGHT All rights reserved Beveridge Williams & Co. Pty Ltd has granted a licence to the principle to use this document for its intended pur No unauthorised copying is permitted	pose.					F Divertial 7	Designed Date	N.BALL 24.08.22	Beveridge Williams	Project Details STAGE 21	Sheet 41 of 47
						- Ruequeur	Drawn	B.RAU		CITY OF CASEY	1.200 H 1.20 V @ A1
B BISTRE WAY RENAMED 18.07.24 NB	NB			COMMUNITIES		square	Approved	S.YOUNG	1 Glenferrie Road Malvern VIC 3144	Drawing DRAINAGE LONGITUDINAL SECTIONS	Project Ref Stage No Drawing No Rev
A ISSUED FOR CONSTRUCTION 23.05.24 AP REV DESCRIPTION DATE DRN.	NB APP. F	REV	DESCRIPTION DATE DRN. APP.				PS Number	PS908383U	pr: US 9524 8888 www.beveridgewilliams.com.au	(SHEET 4 OF 8)	2101578 21 403 B

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





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

DENOTES 20mm CLASS 3 FCR BACKFILL.

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Approved By: Irshad Ghazi Planning Ref: PA22-0687 or to Practical completion



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PS908383U

PS Number

A ISSUED FOR CONSTRUCTION

REV

DESCRIPTION

23.05.24 AP NB

DATE DRN. APP. REV

DESCRIPTION

DATE DRN. APP.

Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Date : 09/09/2024 Approval subject to: -Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

City of Casey

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

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

DENOTES 20mm CLASS 3 FCR BACKFILL.

	CONSTRUCTION	N ISSUE
RIVERFIELD SQUARE TAGE 21 XITY OF CASEY	Sheet 43 of Scale 1:500 H 1:50 V @	47 ๗ A1
PRAINAGE LONGITUDINAL SECTIONS SHEET 6 OF 8)	Project Ref Stage No 2101578 21	Drawing No Rev 405 A

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PIPE GRADE

DATUM

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									HORIZ 1:500 VERT 1:50	0 5	10 1 SCALE AT	20 2 A1 SIZE	30 3				
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							BK			S	juar	e	D	awn oproved	B.RAU S.YOUNG	B	1 Glenferrie Road
A	ISSUED FOR CONSTRUCTION DESCRIPTION	23.05.24 DATE	AP NB DRN. APP.	REV DESCRIPTION	DATE	DRN. A		COMMONTLE		L (LYDE	н.	Di P:	ate S Number	24.08.22 PS908383U		Malvern VIC 3144 ph: 03 9524 8888 www.beveridgewilliams.com.au

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

----- EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT

DENOTES 20mm CLASS 3 FCR BACKFILL.

CONSTRUCTION ISSUE

Project Details	RIVERFIELD SQUARE STAGE 21	Sheet 45 of 47								
		Scale								
		1·500 H 1·50 V @ A1								
Drawing	DRAINAGE LONGITUDINAL SECTIONS									
Title		Project Ref	Stage No	Drawing No	Rev					
	(SHEET & OF 8)	2101578	21	407	А					

Project Details

TYPE 1 END PIPE 2 JUNCTION PIT 3 TANGENT POINT 4 DOUBLE SIDE ENTRY PIT 5 SIDE ENTRY PIT 6 TANGENT POINT 7 SIDE ENTRY PIT 8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 115 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 12 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT 26 JUNCTION PIT 27	WIDTH LENG 100 100 600 900 - - 600 900 - - 600 900 - - 600 900 - - 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 - - 600 900 - - 600 900 - - 600 900 - - 600 900 600 900 600 900	EDCM 605 EDCM 605 EDCM 602 EDCM 602 EDCM 601 EDCM 601 EDCM 601 EDCM 605 EDCM 605 EDCM 605 EDCM 605	WIDTH 	ENGL LENGTH - 900 - 900 - 900 - 900 - 900 - 900 - 900 1200		DIA 1050 1050 1050 1050 1050 1050 1050 105	INV LEV 14.3 14.383 14.424 14.523 14.69 14.751 14.924	DIA 1050 1050 1050 1050 1050 1050	INV LEV 14.353 14.424 14.493 14.66 14.751 14.904	SETOUT RL 16.387 16.527 16.391 16.484 16.596 16.67	DEPTH 2.087 2.174 1.967 1.991 1.936 1.920	REWARKS HAUNCH PIT SOUTH HAUNCH PIT WEST. 2 x PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL 14.523 HAUNCH PIT WEST
I END PIPE 2 JUNCTION PIT 3 TANGENT POINT 4 DOUBLE SIDE ENTRY PIT 5 SIDE ENTRY PIT 6 TANGENT POINT 7 SIDE ENTRY PIT 8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	100 100 600 900 - - 600 900 - - 600 900 - - 600 900 - - 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 - - 600 900 - - 600 900 600 900 600 900 600 900 600 900	EDCM 605 EDCM 602 EDCM 601 EDCM 601 EDCM 601 EDCM 605 EDCM 605 EDCM 605 EDCM 605 EDCM 605 EDCM 605	- 1350 - 1350 1350 - 1350 - 1350 1350 1350 1350 1350	900 - 900 - 900 - 900 - 900 900 1200	EDCM 607 EDCM 607 EDCM 607 EDCM 607 EDCM 607	1050 1050 1050 1050 1050 1050 1050 1050	14.3 14.383 14.424 14.523 14.69 14.751 14.924	1050 1050 1050 1050 1050 1050	14.353 14.424 14.493 14.66 14.751	16.387 16.527 16.391 16.484 16.596 16.67	2.087 2.174 1.967 1.991 1.936 1.920	HAUNCH PIT SOUTH HAUNCH PIT WEST. 2 x PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL 14.523 HAUNCH PIT WEST
2 JUNCTION PIT 3 TANGENT POINT 4 DOUBLE SIDE ENTRY PIT 5 SIDE ENTRY PIT 6 TANGENT POINT 7 SIDE ENTRY PIT 8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	000 300 - - 600 900 - - 600 900 - - 600 900 - - 600 900	EDCM 602 EDCM 602 EDCM 601 EDCM 601 EDCM 601 EDCM 605 EDCM 605 EDCM 606 EDCM 605 EDCM 605	- - - - - - - - - - - - - -	- 900 900 - 900 - 900 900 900 1200	EDCM 607 EDCM 607 EDCM 607 EDCM 607	1050 1050 1050 1050 1050 1050	14.363 14.424 14.523 14.69 14.751 14.924	1050 1050 1050 1050 1050	14.333 14.424 14.493 14.66 14.751	16.327 16.391 16.484 16.596 16.67	1.967 1.991 1.936 1.920	HAUNCH PIT WEST. 2 x PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL 14.523 HAUNCH PIT WEST
4 DOUBLE SIDE ENTRY PIT 5 SIDE ENTRY PIT 6 TANGENT POINT 7 SIDE ENTRY PIT 8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 - - 600 900 - - 600 900	EDCM 602 EDCM 601 EDCM 601 EDCM 601 EDCM 605 EDCM 605 EDCM 606 EDCM 605 EDCM 605	1350 1350 - 1350 - 1350 1350 1350 1350 1350 1350	900 900 - 900 - 900 900 1200	EDCM 607 EDCM 607 - EDCM 607 - EDCM 607 EDCM 607	1050 1050 1050 1050 1050	14.523 14.69 14.751 14.924	1050 1050 1050	14.493 14.66 14.751	16.484 16.596 16.67	1.991 1.936 1.920	HAUNCH PIT WEST. 2 x PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL 14.523 HAUNCH PIT WEST
5 SIDE ENTRY PIT 6 TANGENT POINT 7 SIDE ENTRY PIT 8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 10 SIDE ENTRY PIT 11 SIDE ENTRY PIT 12 SIDE ENTRY PIT 13 SIDE ENTRY PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 - - 600 900 - - 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 - - 600 900 - - 600 900 - - 600 900 - - 600 900 600 900 - - 600 900 600 900 600 900	EDCM 601 EDCM 601 EDCM 601 EDCM 605 EDCM 605 EDCM 605 EDCM 605 EDCM 605	1350 - 1350 - 1350 1350 1350 1350 1350	900 - 900 - 900 900 1200	EDCM 607 - EDCM 607 - EDCM 607	1050 1050 1050 1050	14.69 14.751 14.924	1050 1050	14.66 14.751	16.596 16.67	1.936	HAUNCH PIT WEST
0 TANGEN FORM 7 SIDE ENTRY PIT 8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 - - 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 - - 600 900 - - 600 900 - - 600 900 - - 600 900 - - - - - - 600 900 600 900 600 900	EDCM 601 EDCM 601 EDCM 605 EDCM 606 EDCM 601 EDCM 605 EDCM 605	1350 - 1350 1350 1350 1350 1350 1350	900 - 900 900 1200	EDCM 607 - EDCM 607	1050 1050	14.924	1050	14,904	10.07	1.520	
8 TANGENT POINT 9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 13. JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	- - 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900	EDCM 601 EDCM 605 EDCM 606 EDCM 606 EDCM 606 EDCM 605 EDCM 605	- 1350 1350 1350 1350 1350	- 900 900 1200	- EDCM 607	1050		1000	14.034	16.829	1.935	HAUNCH PIT WEST
9 SIDE ENTRY PIT 10 GRATED ENTRY PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 SIDE ENTRY PIT 23 SIDE ENTRY PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900	EDCM 601 EDCM 605 EDCM 606 EDCM 606 EDCM 601 EDCM 605 EDCM 605	1350 1350 1350 1350 1350	900 900 1200	EDCM 607	4050	15.004	1050	15.004	17.078	2.073	
11 JUNCTION PIT 11 JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 SIDE ENTRY PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900	EDCM 605 EDCM 606 EDCM 601 EDCM 605 EDCM 605	1350 1350 1350	1200	FDCM b07	1050	15.049	1050	15.019	17.019	2.000	HAUNCH PIT NORTH. 2m 10500 TEMPORARY STUB @ IL15.019 HAUNCH PIT NORTH. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - II 15.80
11A JUNCTION PIT 12 SIDE ENTRY PIT 13 JUNCTION PIT 13A JUNCTION PIT 13A JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900 600 900	EDCM 606 EDCM 601 EDCM 605 EDCM 605	1350 1350		EDCM 607	1050	15.336	1050	15.306	17.696	2.390	HAUNCH PIT NORTH AND WEST. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL
12 SIDE ENTRY PIT 13 JUNCTION PIT 13A JUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 600 900 600 900 600 900 600 900 600 900	EDCM 601 EDCM 605 EDCM 605	1350	1200	EDCM 607	1050	15.448	1050	15.418	17.944	2.526	HAUNCH PIT NORTH. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL16.45
IJUNCTION PIT 14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 600 900 600 900 600 900 600 900	EDCM 605	1350	900	EDCM 607	1050	15.499	1050	15.469	17.884	2.415	HAUNCH PIT NORTH. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL16.42 HAUNCH PIT NORTH AND WEST. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - I
14 SIDE ENTRY PIT 15 SIDE ENTRY PIT 15 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT - - 24 JUNCTION PIT 25 JUNCTION PIT	600 900 600 900 600 900 600 900		1350	1200	EDCM 607	1050	15.804	1050	15.774	18.547	2.773	HAUNCH PIT NORTH. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION - IL17.10
13 SIDE ENTRY PIT 16 SIDE ENTRY PIT 17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT - - - - 24 JUNCTION PIT 25 JUNCTION PIT	 600 900 600 900	EDCM 601	1350	900	EDCM 607	1050	15.856	1050	15.826	18.457	2.631	HAUNCH PIT NORTH
16 SIDE ENTRY P IT 17 SIDE ENTRY P IT 18 SIDE ENTRY P IT 19 SIDE ENTRY P IT 20 SIDE ENTRY P IT 21 JUNCTION P IT 22 JUNCTION P IT 23 SIDE ENTRY P IT - - 24 JUNCTION P IT 25 JUNCTION P IT	600 900 600 900	EDCIVIOU1	-	- 1200	EDCIVI 607	600	16.213	- 1050	-	-	-	-
17 SIDE ENTRY PIT 18 SIDE ENTRY PIT 19 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT - - 24 JUNCTION PIT 25 JUNCTION PIT	600 900	EDCM 601	900	900	EDCM 607	675	16.408	675	16.358	18.879	2.521	HAUNCH PIT NORTH
21 SIDE ENTRY PIT 20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT - - - - 24 JUNCTION PIT 25 JUNCTION PIT		EDCM 601	900	900	EDCM 607	675	17.652	675	17.602	19.637	2.035	HAUNCH PIT NORTH
20 SIDE ENTRY PIT 21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT - - - - 24 JUNCTION PIT 25 JUNCTION PIT	600 900	EDCM 601	900	900	EDCM 607	675	18.51	675	18.46	21.237	2.777	HAUNCH PIT NORTH
21 JUNCTION PIT 22 JUNCTION PIT 23 SIDE ENTRY PIT - - 24 JUNCTION PIT 25 JUNCTION PIT	600 900	EDCM 601	900	900	EDCM 607	675	18.638	675	18.588	21.32	2.732	HAUNCH PIT NORTH
23 SIDE ENTRY PIT 	600 900	EDCM 605	900	900	EDCM 607 EDCM 607	675	18.798	675	18.748	21.436	2.688	HAUNCH PIT NORTH
	600 900	EDCM 601	900	900	EDCM 607	675	19.199	675	19.149	21.732	2.583	HAUNCHPITNORTH
24 JUNCTION PIT 25 JUNCTION PIT		-	-	-	-	300	20.234	-	-	-	-	-
	600 900	EDCM 605	900	1200	EDCIVI 607	675	19.315	675	19.265	21.794 22.099	2.530	HAUNCH PIT NORTH AND EAST
26 SIDE ENTRY PIT	600 900	EDCM 601	600	1200	EDCM 607	525	19.672	675	19.597	22.048	2.451	HAUNCH PIT SOUTH
		- EDCM 601	900	-	- FDCM 607	300	19.784	- 525	-	- 22 0.49	- 2 1/10	-
		-	-	-	-	300	20.012		-	-		-
8 SIDE ENTRY PIT	600 900	EDCM 601	900	900	EDCM 607	375	20.315	525	20.24	22.459	2.220	HAUNCH PIT EAST
		- EDCM 601	- 600	- 900	FDCM 605	375	20.315	- 275	20 512	22.664	- 2 150	-
0 SIDE ENTRY PIT	600 900	-	-	-	-	375	21.597	375	21.547	23.184	1.638	
1 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	375	21.866	375	21.816	23.546	1.730	
JUNCTION PIT	600 900		600	900	EDCM 605	300	22.238	375	- 22.188	23.891	1.703	-
3 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	22.371	300	22.321	24.232	1.911	
4 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	22.619	300	22.569	24.563	1.993	
5 SIDE ENTRY PIT 6 JUNCTION PIT	600 900	EDCM 601 EDCM 605	600	900	EDCM 605 EDCM 605	300	22.721	300	22.6/1	24.727	2.057	
7 JUNCTION PIT	600 900	EDCM 605	600	900	EDCM 605	300	24.796	300	24.746	26.74	1.994	
-		-	-	-	-	300	24.796	-	-	-	-	
9 SIDE ENTRY PIT	600 900	EDCM 605	600	900	EDCM 605	-	-	300	25.376	26.995	2,109	
θ -		-	-	-	-	-	-	-	-	-	-	P IT 40 REMOVED FROM STAGE 21 DRAINAGE SCHEME
41 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	375	20.942	375	20.892	22.688	1.795	-
43 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	375	22.471	375	22.421	24.149	1.735	-
44 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	375	22.908	375	22.858	24.524	1.666	
		- EDCM 601	600	900	- EDCM 605	300	22.908	375	- 23.44	- 24.896	-	-
S SIDEENTRIPH		-		-	-	300	23.49	-	-	-	-	-
5 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	24.435	300	24.385	25.842	1.457	-
7 GRATED SIDE ENTRY PIT 8 SIDE ENTRY PIT	600 900	VR SD 1322 FDCM 601	600	900	VR SD 1011 FDCM 605	-		300	24.475	25.729	1.254	REFER TO VICROADS STANDARD DRAWINGS.
49 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	н	ж	300	23.532	24.924	1.392	
50 SIDE ENTRY PIT	600 900	EDCM 601	600	1200	EDCM 607	600	16.366	600	16.316	18.738	2.422	HAUNCH PIT SOUTH. PIT BLOCK OUT FOR FUTURE 300mm CONNECTION IL 16.44.
52 SIDE ENTRY PIT	600 900	EDCM 601	900	1050	EDCM 607	600	16.994	600	16.434	18.739	2.305	HAUNCH PIT PAST HAUNCH PIT NORTH AND EAST
53 SIDE ENTRY PIT	600 900	EDCM 601	900	1050	EDCM 607	600	17.101	600	17.051	19.044	1.992	HAUNCH PIT SOUTH AND WEST
54 SIDE ENTRY PIT	600 900	EDCM 601	900	900	EDCM 607	600 525	17.48	600	17.43	19.373	1.942	HAUNCH PIT SOUTH
56 SIDE ENTRY PIT	600 900	EDCM 601	900	900	EDCM 607	525	18.138	525	18.088	20.092	2.004	HAUNCH PIT SOUTH
		-	~	-	-	300	18.2	-	-	-	-	-
57 SIDE ENTRY PIT 58 UNICTION PIT	600 900 600 900	EDCM 601 EDCM 605	900	900	EDCM 607	525	18.288	525	18.238	20.107	1.870	HAUNCH PIT NORTH AND EAST
		-	-	-	-	300	18.526	-	-	-	-	
59 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	525	18.571	525	18.521	20.602	2.081	
50 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	450	18.633	525	18.613	20.602	1.988	-
			4	- 1	-	300	18.726	-	-	-	-	4
1 SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	450 275	19.435	450	19.385	21.577	2.192	-
JUNCTION PIT	600 900	EDCM 605	600	900	EDCM 605	300	20.124	375	20.074	22.196	2.142	-
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	20.482	300	20.432	22.533	2.101	HEAVY DUTY PIT LID
SIDE ENTRY DIT	600 900	- EDCM 601	- 600	- 900	- FDCM 605	300	20.482	300	22 043	23.696	1 654	- ΗΓΔΥΥ ΓΙ ΠΥΡΙΤΙ ΓΓ
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	20.894	300	20.765	22.533	1.768	-
JUNCTION PIT	600 900	EDCM 605	600	900	EDCM 605	-	-	300	22.83	24.433	1.603	-
7 JUNCTION PIT 8 JUNCTION PIT	600 900 600 900	EDCM 605 EDCM 605	600	900	EDCM 605	300	18.618	300	19.359	20.971	1.611	-
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605			300	19.189	20.783	1.594	
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	19.581	300	19.531	20.807	1.276	-
2 JUNCTION PIT	600 900	EDCM 605	600	900	EDCIVI 605	-	-	300	20.329	23.753	1.243	-
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	21.15	300	21.100	22.664	1.564	
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	21.972	300	21.922	23.168	1.246	•
5 JUNCTION PIT	600 900	EDCM 605	600	900	EDCIVI 605 EDCM 605	- 300	-	300	22.283	23.534	1.200	-
7 JUNCTION PIT	600 900	EDCM 605	600	900	EDCM 605	-	-	300	24.265	25.943	1.679	
SIDE ENTRY PIT	600 900	EDCM 601	600	900	EDCM 605	300	20.589	300	20.539	22.669	2.130	-
END DOUNT		-	-	-	-	300	21.931	300	21.931	23.601	1.670	CONNECT TO EXISTING END POINT
A END POINT	600 900	EDCM 605	600	900	EDCM 605	300	22.525	300	22.475	24.238	1.763	
79 JUNCTION PIT	600 900	EDCM 601	600	900	EDCM 605	300	22.610	300	22.560	24.177	1.617	-
A END POINT 79 JUNCTION PIT 80 SIDE ENTRY PIT 81 SIDE ENTRY DIT	600 900	EDCM 605	600	900	EDCM 605	-	-	300	20.743	22.064	1.320	
A END POINT 79 JUNCTION PIT 80 SIDE ENTRY PIT 81 SIDE ENTRY PIT 2 SIDE ENTRY PIT		EDCM 601	600	900	EDCM 605	-	-	300	20.351	21.671	1.320	
A END POINT 79 JUNCTION PIT 80 SIDE ENTRY PIT 81 SIDE ENTRY PIT 2 SIDE ENTRY PIT 3 SIDE ENTRY PIT 3 SIDE ENTRY PIT	600 900	COCIVIDOT	000		and the second second second			10. m		and the second se		
9A END POINT <<79	600 900 600 900	EDCM 605	600	900	EDCM 605	-	~	300	19.711	20.969	1.258	4
SIDE ENTRY PIT SIDE ENTRY PIT SIDE ENTRY PIT SIDE ENTRY PIT JUNCTION PIT		EDCM 605	600	900	EDCM 605	-	-	300	19.711 Design Date	20.969 ned	1.258 N.BALL 24.08.22	Beveridge Williams

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А	ISSUED FOR CONSTRUCTION	23.05.24	AP	NB						
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.	

Approved Date

PS Number

Reveridge Williams 1 Glenferrie Road Malvern VIC 3144 ph: 03 9524 8888 www.beveridgewilliams.com.au

City of Casey Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: Ref158 Date : 09/09/2024 Approval subject to: - Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

	CONSTRUCTION ISSUE
Project Details RIVERFIELD SQUARE STAGE 21 CITY OF CASEY	Sheet 46 of 47 Scale NOT TO SCALE
Tite PII SCHEDULE	Project Ref Stage No Drawing No Rev 2101578 21 408 A

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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.

REVISIONS

APPROVAL ISSUE

APPROVAL ISSUE

DETAILS

30.08.2

26.08.2

DATE

APPROVED

• WHERE BASALT IS PRESENT, THE BORED PIER FOOTINGS SHALL BE SOCKETED 900mm MINIMUM INTO SOLID UNDISTURBED BEDROCK

SLEEPER WALL SCHEDULE					
SPACING OF POSTS (mm)	RETAINED HEIGHT ' H '	DEPTH ' D '	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	

P2 P1

REVISION

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SCALE 1:10

500

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		

City of Casey

Approved By: Irshad Ghazi Planning Ref: PA22-0687

File No: SEng00218/22 Council Ref: R6158

Date : 09/09/2024 Approval subject to:

Approval of an Environmental Management Plan (EMP)

and Traffic Management Plan (TMP) All works to be carried out in accordance with the

planning permit A CCTV report must be provided for all drainage lines rior to Practical completion

Drawn

MASS ROCK RETAINING WALL DETAIL

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 AS3798. 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		

MASS ROCK RETAINING WALL DETAIL

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Project Title :

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M.T	AS SHOWN @ A1 SHEET

ABN: 75 128 863 445 0424 811 015 +61 3 9830 1101 55 Sir Garnet Rd, Surrey Hills, VIC design@macivil.com.au www.macivil.com.au

SCALE 1:10

RIVERFIELD SQUARE ESTATE 1675 BALLATO ROAD, CLYDE NORTH

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

- CONCRETE NOTES
- 1. ALL CONCRETE BASED ON fc = 25MPa NORMAL CONCRETE MIX.
- 2. CONCRETE SLUMP TO BE 80mm WITH A MAXIMUM AGGREGATE SIZE = 20mm.
- 3. CONCRETE THICKNESS NOMINATED ARE MINIMUM STRUCTURAL REQUIREMENTS.
- 4. ALL REINFORCEMENT TO BE ' N ' TYPE HOT ROLLED DEFORMED BARS IN ACCORDANCE WITH AS4671 AND BE GRADE D500N.
- 5. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED AND
- MAINTAINED IN CORRECT POSITION DURING CONCRETING. 6. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554.3 7. ALL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE AS3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- 8. 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 ENVIROMENT SHALL BE HOT DIPPED GALVANISED.

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

10mm BASE PLATE, 6CFW. 4M16 CHEMSET ANCHORS TO SLAB (125mm MIN. EMBEDMENT)

400mm THICK SLAB (25MPa) SL82 MESH TOP & BOTTOM

> RETAINING WALL DETAILS SHEET 1

Drawing Title :

Drawing No :

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			_	MA	26.08.2024	APPROVAL ISSUE		P1
				APPROVED	DATE	DETAILS	ON	REVIS

MASS ROCK RETAINING WALL ON PIERS NEAR PARALLEL SEWER OR STORMWATER DETAIL

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

ABN: 75 128 863 445 0424 811 015 +61 3 9830 1101 55 Sir Garnet Rd, Surrey Hills, VIC design@macivil.com.au www.macivil.com.au

Drawing Title : Project Title : Drawing No : RIVERFIELD SQUARE ESTATE RETAINING WALL DETAILS 177-01-S02 SHEET 2 1675 BALLATO ROAD, CLYDE NORTH P2

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

SLEEPER WALL SCHEDULE					
SPACING OF POSTS (mm)	RETAINED HEIGHT ' H '	DEPTH ' D '	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	

City of Casey

Approved By: Irshad Ghazi Planning Ref: PA22-0687 File No: SEng00218/22 Council Ref: R6158 Date : 09/09/2024 Approval subject to: -Approval of an Environmental Management Plan (EMP) and Traffic Management Plan (TMP) - All works to be carried out in accordance with the planning permit - A CCTV report must be provided for all drainage lines prior to Practical completion

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

REVISIONS

ABN: 75 128 863 445 0424 811 015 +61 3 9830 1101 55 Sir Garnet Rd, Surrey Hills, VIC design@macivil.com.au www.macivil.com.au

Project Title :

RIVERFIELD SQUARE EST 1675 BALLATO ROAD, CLYDE NORTH

TYPICAL ELECTRICAL EYE BOLT DETAIL

SCALE 1:10

	Drawing Title :
ATE	RETAINING WALL DETAILS
	SHEET 3

Drawing No :

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P1	APPROVAL ISSUE	30.08.2024	MA	
REVISION	DETAILS	DATE	APPROVED	

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

ABN: 75 128 863 445 0424 811 015 +61 3 9830 1101 55 Sir Garnet Rd, Surrey Hills, VIC design@macivil.com.au www.macivil.com.au

RIVERFIELD SQUARE ESTATE RETAINING WALL DETAILS SHEET 4 1675 BALLATO ROAD, **CLYDE NORTH**

Drawing No :

177-01-S04