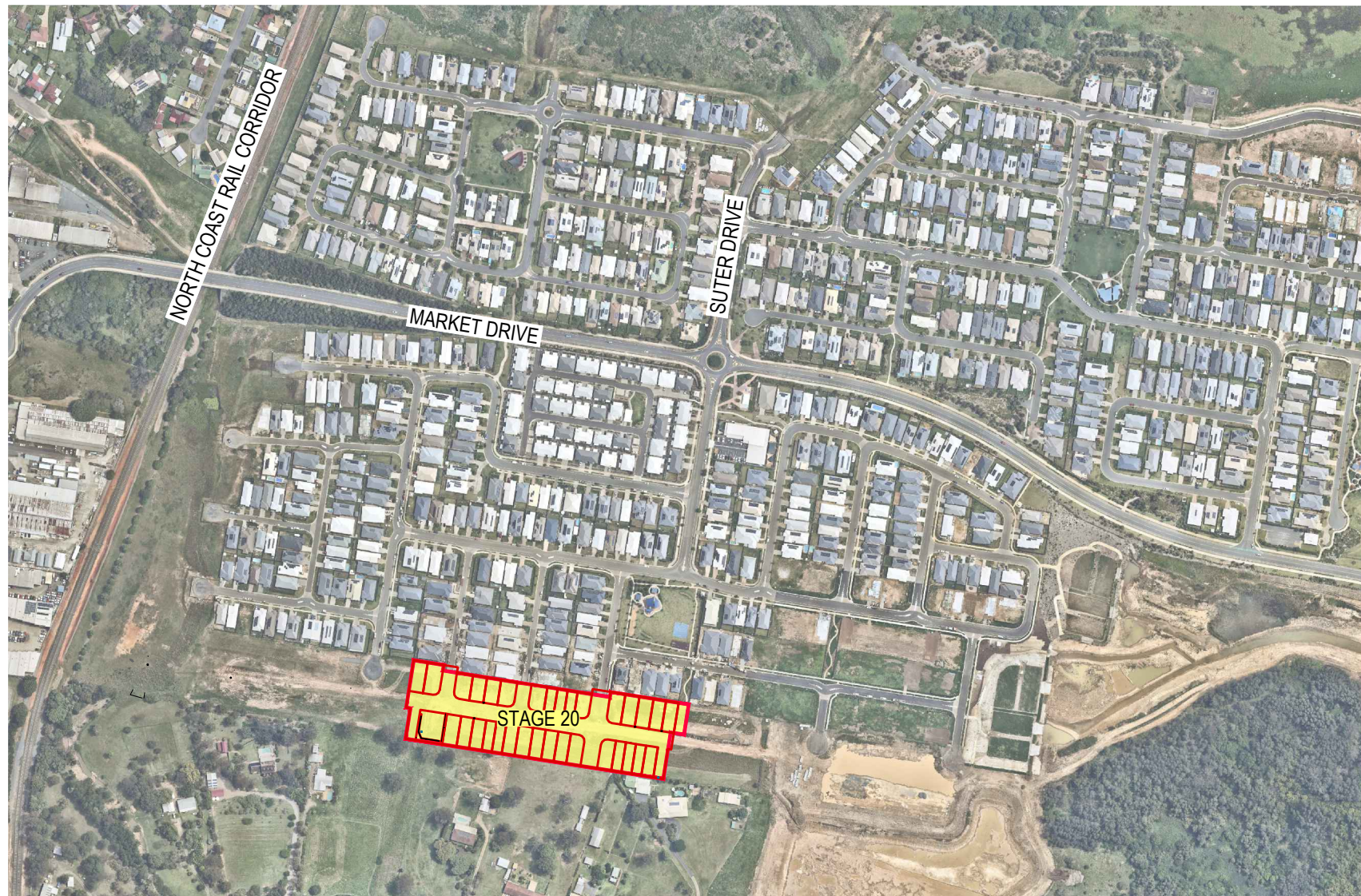


RIVERBANK ESTATE

STAGE 20
FOR PEET CABOOLTURE SYNDICATE LTD



LOCALITY PLAN
NTS

DRAWING INDEX

GENERAL	
000	COVER SHEET LOCALITY PLAN AND DRAWING INDEX
BULK EARTHWORKS	
200	BULK EARTHWORKS LAYOUT PLAN
201	BULK EARTHWORKS SECTIONS AND DETAILS
202	BULK EARTHWORKS RETAINING WALL TYPICAL DETAILS
203	COMPENSATORY EARTHWORKS LAYOUT PLAN
ROADWORKS	
300	CONTROL LINE LAYOUT PLAN
301	CONTROL LINE SETOUT TABLES
310	ROADWORKS LAYOUT PLAN
320	INTERSECTION DETAILS LAYOUT PLAN SHEET 1 OF 2
321	INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2
330	DAISY STREET ROAD 05 LONGITUDINAL SECTION
331	DAISY STREET ROAD 05 CROSS SECTIONS SHEET 1 OF 2
332	DAISY STREET ROAD 05 CROSS SECTIONS SHEET 2 OF 2
333	PAMPLING STREET ROAD 14 LONGITUDINAL AND CROSS SECTIONS
334	PAMPLING STREET ROAD 03 LONGITUDINAL AND CROSS SECTIONS
335	LONGMAN STREET ROAD 04 LONGITUDINAL AND CROSS SECTIONS
336	CARPET STREET ROAD 05 LONGITUDINAL AND CROSS SECTIONS
340	SIGNS AND LINEMARKING LAYOUT PLAN
350	PAVEMENT LAYOUT PLAN
DRAINAGE	
400	STORMWATER DRAINAGE LAYOUT PLAN
410	STORMWATER DRAINAGE CATCHMENT PLAN
420	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 3
421	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 3
422	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 3
430	STORMWATER DRAINAGE CALCULATIONS TABLES SHEET 1 OF 2
431	STORMWATER DRAINAGE CALCULATIONS TABLES SHEET 2 OF 2
440	STORMWATER DRAINAGE NOTES AND DETAILS
450	STORMWATER DRAINAGE MANHOLE DETAILS SHEET 1
SEWER RETICULATION	
500	SEWER RETICULATION NOTES AND DETAILS
501	SEWER RETICULATION LAYOUT PLAN
510	SEWER RETICULATION LONGITUDINAL SECTIONS
511	SEWER RETICULATION DETAILS
WATER RETICULATION	
600	WATER RETICULATION COVER SHEET
601	WATER RETICULATION LAYOUT PLAN
602	WATER RETICULATION LIVE CONNECTIONS AND DETAILS
BIO BASIN	
700	STORMWATER BASIN LAYOUT PLAN AND SETOUT
701	STORMWATER BASIN SECTIONS
702	STORMWATER BASIN NOTES AND DETAILS
703	STORMWATER BASIN FOREBAY DETAIL
704	STORMWATER BASIN SWALE LAYOUT AND LONGSECTION

INFORMATION SHOWN ON THIS DRAWING INDICATES DESIGN ONLY. PLEASE REFER TO AS CONSTRUCTED PREPARED BY WOLTER CONSULTING GROUP PTY LTD FOR FINAL AS CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS

I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.

13-02-2024

SIGNED: *Mark Wyer* DATE: _____

MARK WYER RPEQ 16191

MORETON BAY
REGIONAL COUNCIL
AREA OF SITE: 1.935 ha

LOT INFORMATION
EXISTING LOT
LOT 1028 SP321913
PROPOSED NO. OF LOTS: 32

CONSTRUCTION NOTE
THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
• GEOTECHNICAL REPORT (PREPARED BY SOIL SURVEYS)
• LANDSCAPE DRAWINGS (PREPARED BY SAUNDERS HAVILL GROUP)

CONSTRUCTION HOLD POINT
ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, FURTHER CONSTRUCTION SHALL NOT PROCEED UNTIL THE SUPERINTENDENT AND OR ENGINEER HAVE INSPECTED THE WORKS FOR FINISHED LEVELS AND APPROVED CONSTRUCTION TO CONTINUE.

CONSTRUCTION HOLD POINT
PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY LEVELS OF ALL EXISTING CROSSINGS AND CONNECTION POINTS.

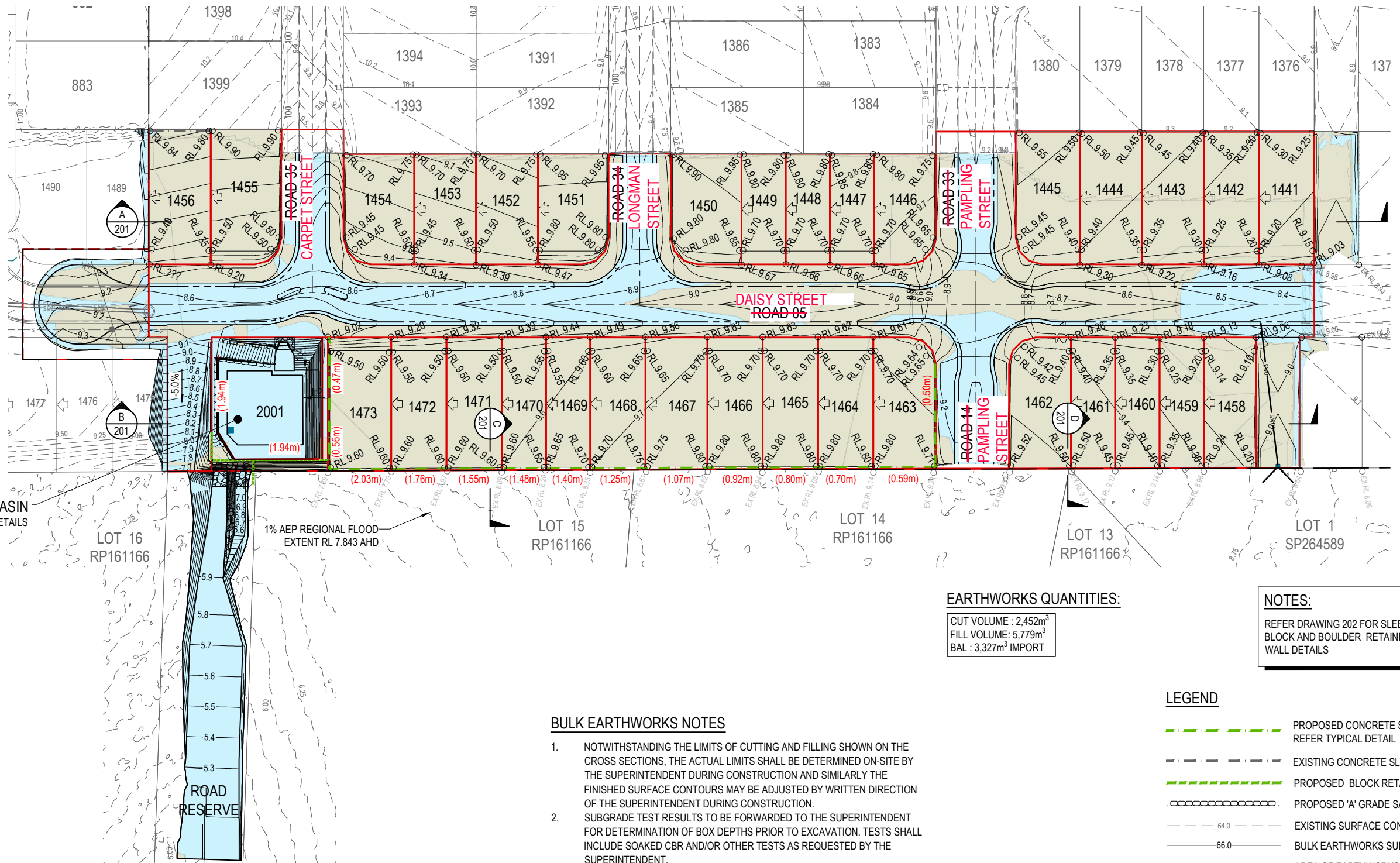
RIVERBANK ESTATE

STAGE 20

M.B.R.C. REF No. DA/2021/0066

Project No.: 21-000058.1 Stage: 20 Milestone: AS Revision Date: 29.01.24 Drawing No.: 000 Revision: A

CONSTRUCTED



DETENTION / BIO RETENTION BASIN
REFER TO DRAWINGS 700 TO 703 FOR DETAILS

LOT 16
RP161166

1% AEP REGIONAL FLOOD
EXTENT RL 7.843 AHD

LOT 15
RP161166

LOT 14
RP161166

LOT 13
RP161166

LOT 1
SP264589

EARTHWORKS QUANTITIES:

CUT VOLUME : 2,452m³
FILL VOLUME : 5,779m³
BAL : 3,327m³ IMPORT

NOTES:

REFER DRAWING 202 FOR SLEEPER,
BLOCK AND BOULDER RETAINING
WALL DETAILS

BULK EARTHWORKS NOTES

- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS SHALL BE DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
- SUBGRADE TEST RESULTS TO BE FORWARDED TO THE SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION. TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
- CONTRACTOR TO LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCING THE DEMOLITION OF ANY EXISTING STRUCTURES WITHIN THE SITE AREA.
- ALL DRAINAGE STRUCTURES TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
- ALL EXCAVATION AND FILLING SHALL BE COMPACTED TO THE REQUIREMENTS OF AS3798-2007 IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- ALL CLEARING SHALL BE CARRIED OUT IN STAGES TO ALLOW FOR RELOCATION OF FAUNA, COMMENCING AT THE LOWER AREAS OF THE SITE.
- SETBACK TO FRONT OF PADS ARE 3.00m UNLESS OTHERWISE NOTIFIED.
- CONTRACTOR TO USE INDUSTRY BEST PRACTICE TO ENSURE ADEQUATE DUST CONTROL DURING EARTHWORKS OPERATIONS.
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.

LEGEND

- PROPOSED CONCRETE SLEEPER RETAINING WALL REFER TYPICAL DETAIL
- EXISTING CONCRETE SLEEPER RETAINING WALL
- PROPOSED BLOCK RETAINING WALL
- PROPOSED 'A' GRADE SANDSTONE ROCK WALLS
- EXISTING SURFACE CONTOUR (0.5m INTERVALS)
- BULK EARTHWORKS SURFACE CONTOUR (0.1m INTERVALS)
- AREA OF EARTHWORKS FILL
- AREA OF EARTHWORKS CUT
- FINISHED SURFACE SPOT LEVEL
- BOTTOM OF RETAINING WALL LEVEL
- EXISTING SURFACE LEVEL
- PROPOSED RETAINING WALL HEIGHT
- INDICATIVE DRIVEWAY LOCATION
- MANDATORY ZERO LOT LINE
- NOMINAL ZERO LOT LINE
- EXISTING EARTHWORKS BATTER

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SIGNED: *Mark Wyer* DATE: 13-02-2024
MARK WYER RPEQ 16191

CAUTION !!
UNDERGROUND
TELECOMMS CABLES
UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT SUPPLIER FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

CAUTION !!
OVERHEAD
ELECTRICAL CABLES
OVERHEAD ELECTRICITY CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX WHERE CABLE CLEARANCE IS COMPROMISED BY MACHINERY.

NOTE:
NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO.

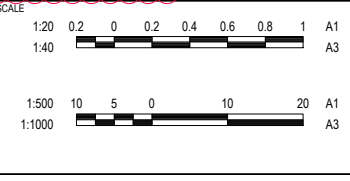
* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
2	17.02.22	ISSUED FOR INFORMATION	VVB	CR		
3	13.05.22	ISSUED FOR APPROVAL	CHC	CR		
4	09.08.22	AS PER COUNCIL COMMENTS	VVB	CH		
5	20.01.23	LOTS 1450, 1450, 1454, 1455 AND 1471-1473 LEVELS AMENDED	CHC	HS	DESIGN CHECK	
6	31.01.23	BLOCK RETAINING WALL RELOCATED. CONCRETE SLEEPER WALL ADDED	EGC	CH		
7	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
8	18.09.23	ISSUED FOR CONSTRUCTION	CH	CH		
A	19.01.24	AS CONSTRUCTED	JM	CH		

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



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PEET

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PROJECT

**RIVERBANK ESTATE
STAGE 20**

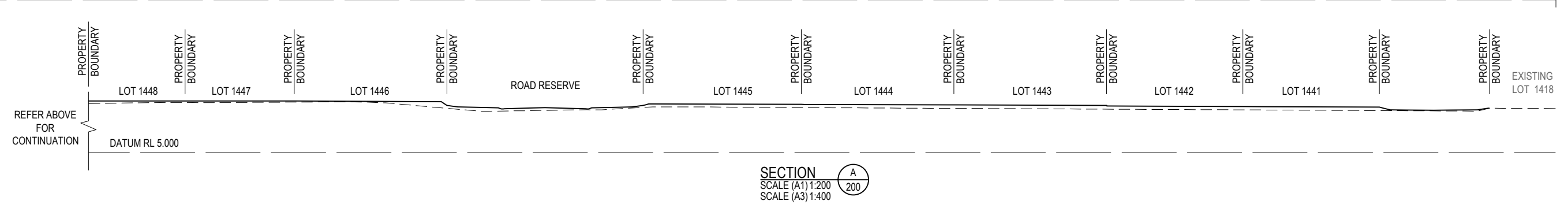
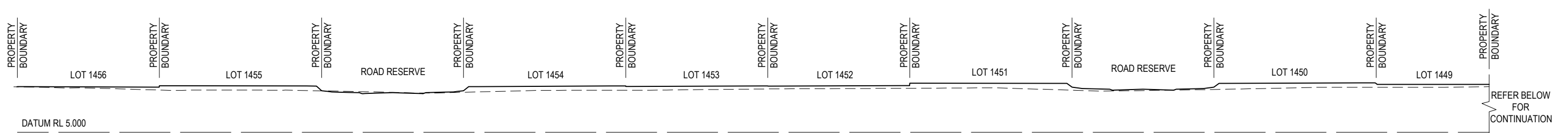
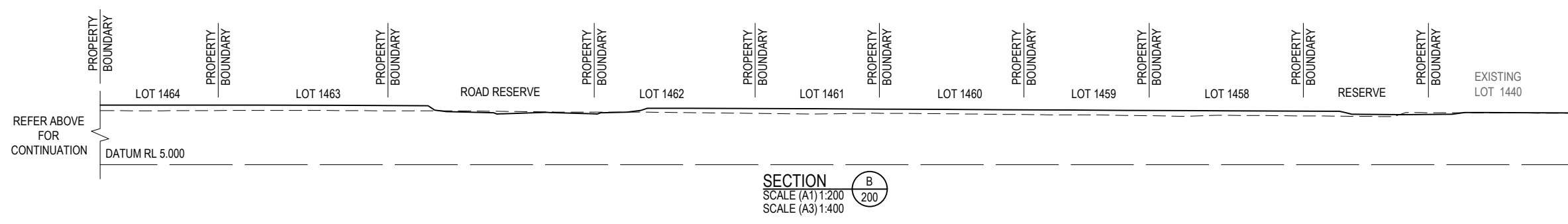
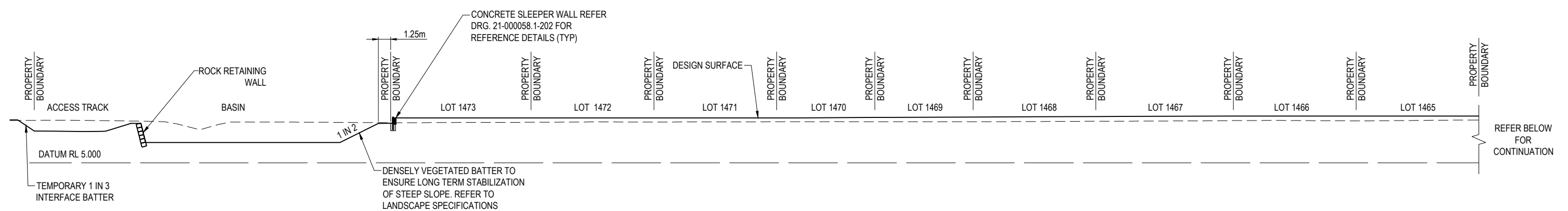
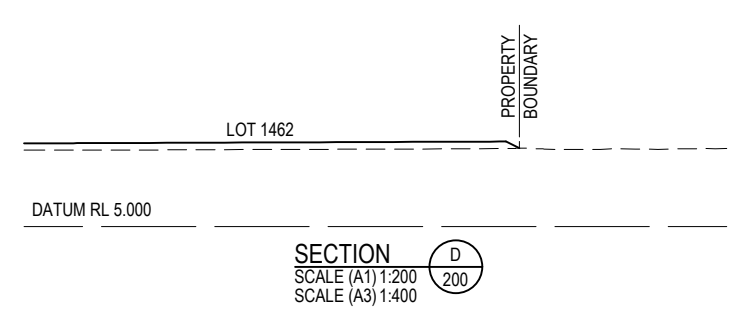
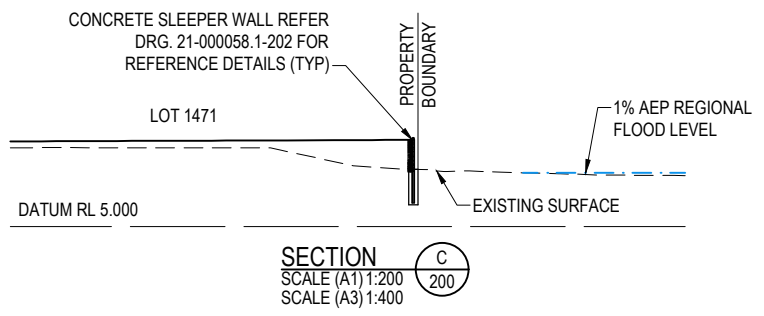
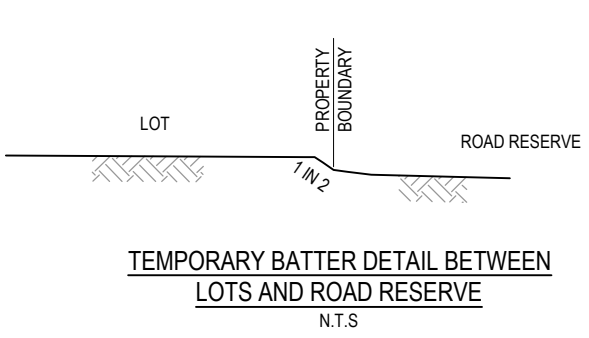
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M.B.R.C. REF No. DA/2021/0066

DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
BULK EARTHWORKS LAYOUT PLAN	21-000058.1	200	A

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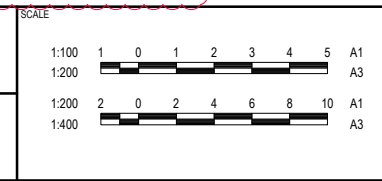
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 SIGNED: *Mark Wyer* DATE: 13-02-2024
 MARK WYER RPEQ 16191



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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED
2	09.08.22	BASIN LAYOUT UPDATED AS PER COUNCIL COMMENTS	VVB	CH		
3	20.01.23	LOTS 1450, 1451, 1454, 1455 AND 1471-1473 LEVEL AMENDED	CHC	HS		
4	31.01.23	SLEEPER WALL ADDED TO SECTION B	CH	CH	DESIGN CHECK	
5	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
6	18.09.23	ISSUED FOR CONSTRUCTION	CH	CH		
A	19.01.24	AS CONSTRUCTED	JM	CH		

APPROVED
MARK WYER
 RPEQ 16191
 FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

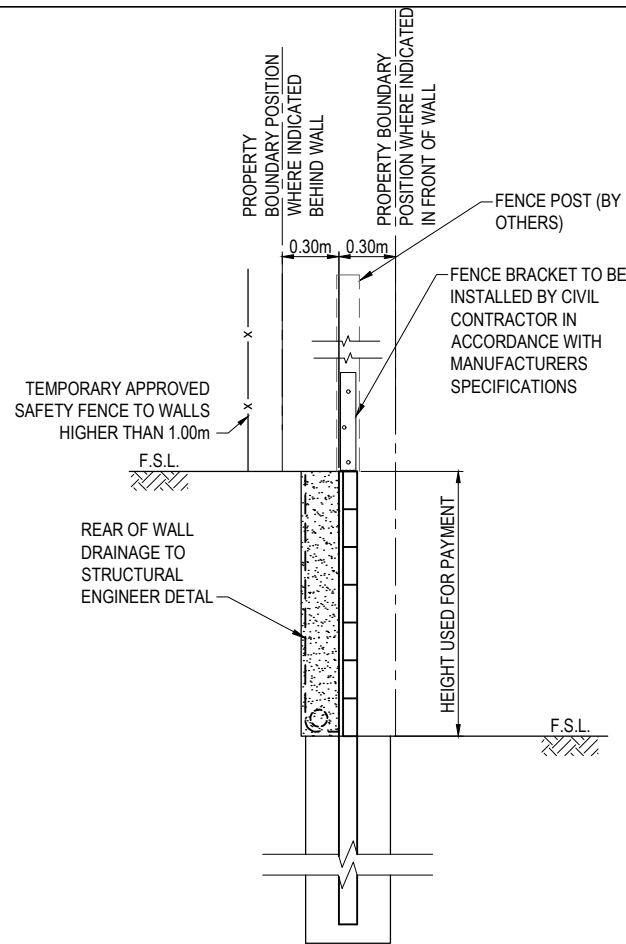


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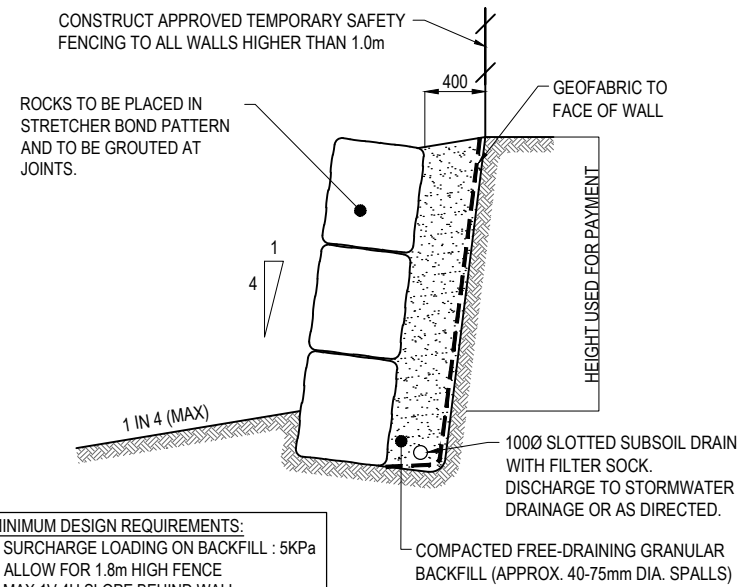
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PROJECT
RIVERBANK ESTATE STAGE 20
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M.B.R.C. REF No. DA/2021/0066
 DRAWING TITLE
BULK EARTHWORKS SECTIONS AND DETAILS
 DRAWING No. 21-000058.1
 REVISION No. 201
 REVISION A



INDICATIVE CONCRETE SLEEPER RETAINING WALL DETAIL
SCALE 1:20 (A1)



- MINIMUM DESIGN REQUIREMENTS:
- SURCHARGE LOADING ON BACKFILL : 5KPa
 - ALLOW FOR 1.8m HIGH FENCE
 - MAX 1V:4H SLOPE BEHIND WALL

TYPICAL 'A' GRADE SANDSTONE TRENCHED ROCK WALL (INDICATIVE)
SCALE 1:20

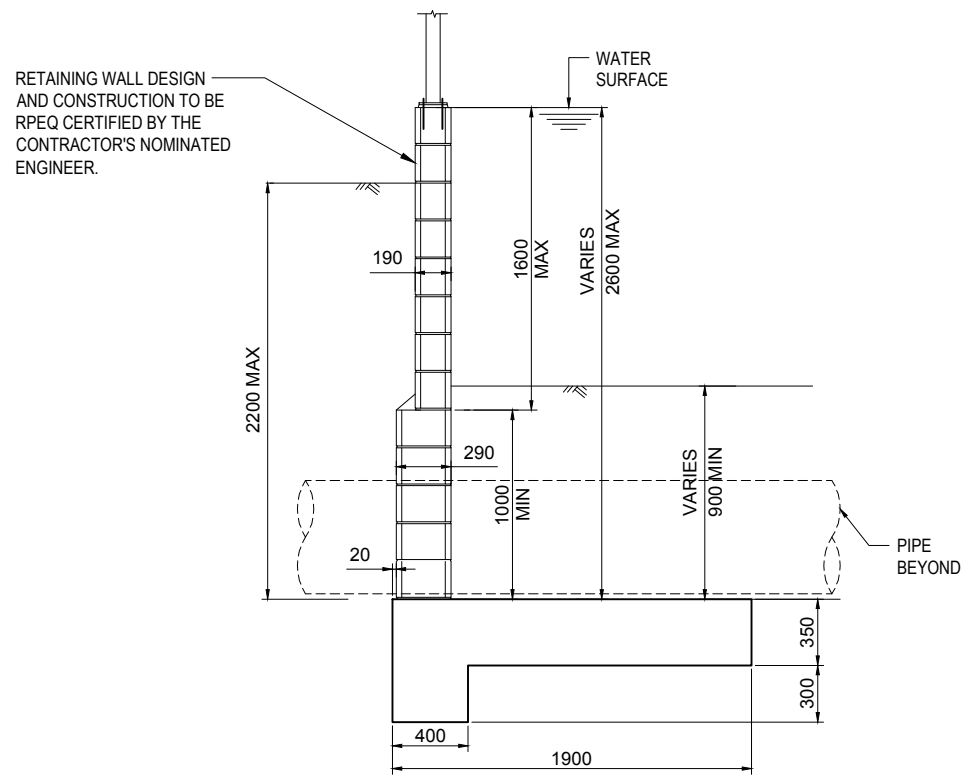
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SIGNED: *Mark Wyer* DATE: 13-02-2024
MARK WYER RPEQ 16191

- MINIMUM DESIGN REQUIREMENTS
- SURCHARGE LOADING TO SUIT RESIDENTIAL HOUSES LOADING TO BE DETERMINED BY STRUCTURAL ENGINEER
 - POST AND FOOTING DESIGN TO ALLOW FOR 1.8m HIGH FENCE BY OTHERS
 - MAX 1V:4H SLOPE BEHIND WALL
 - ALL RETAINING WALL FOOTINGS TO BE LOCATED A MINIMUM 1.0m HORIZONTALLY CLEAR OF THE ROOFWATER AND SEWER AND BE TAKEN BELOW THE ZONE OF INFLUENCE

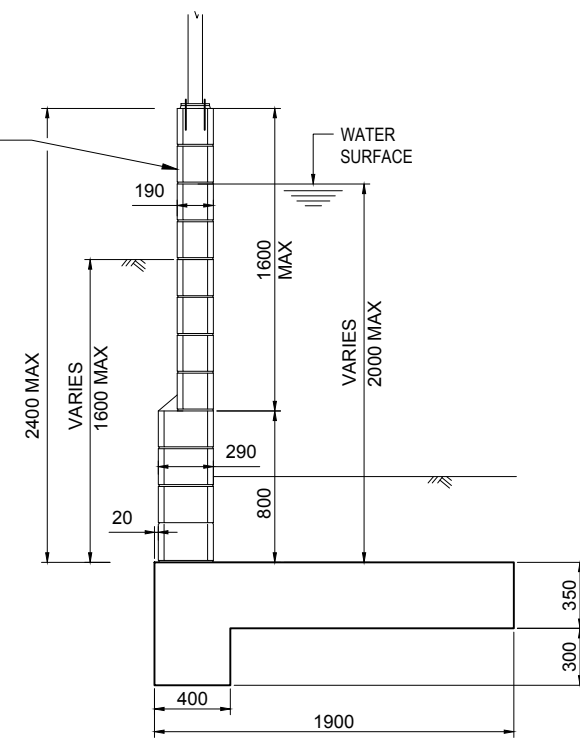
NOTE
WHERE RETAINING WALLS (BOULDER, SLEEPER, SANDSTONE AND BLOCK RETAINING WALLS) ARE LOCATED WITHIN AREAS THAT ARE IMPACTED BY PERMANENT OR TEMPORARY INUNDATION, WALLS MUST BE DESIGNED FOR THE EFFECT OF STATIC AND TRANSIENT PORE WATER PRESSURES WITHIN AND EXTERNAL TO THE STRUCTURE.

NOTES:
REFER DRAWING 200 FOR LEGEND AND BULK EARTHWORKS NOTES



TYPICAL INDICATIVE CONCRETE BLOCK WALL (2.2m MAX.)
SCALE 1:20

RETAINING WALL DESIGN AND CONSTRUCTION TO BE RPEQ CERTIFIED BY THE CONTRACTOR'S NOMINATED ENGINEER.

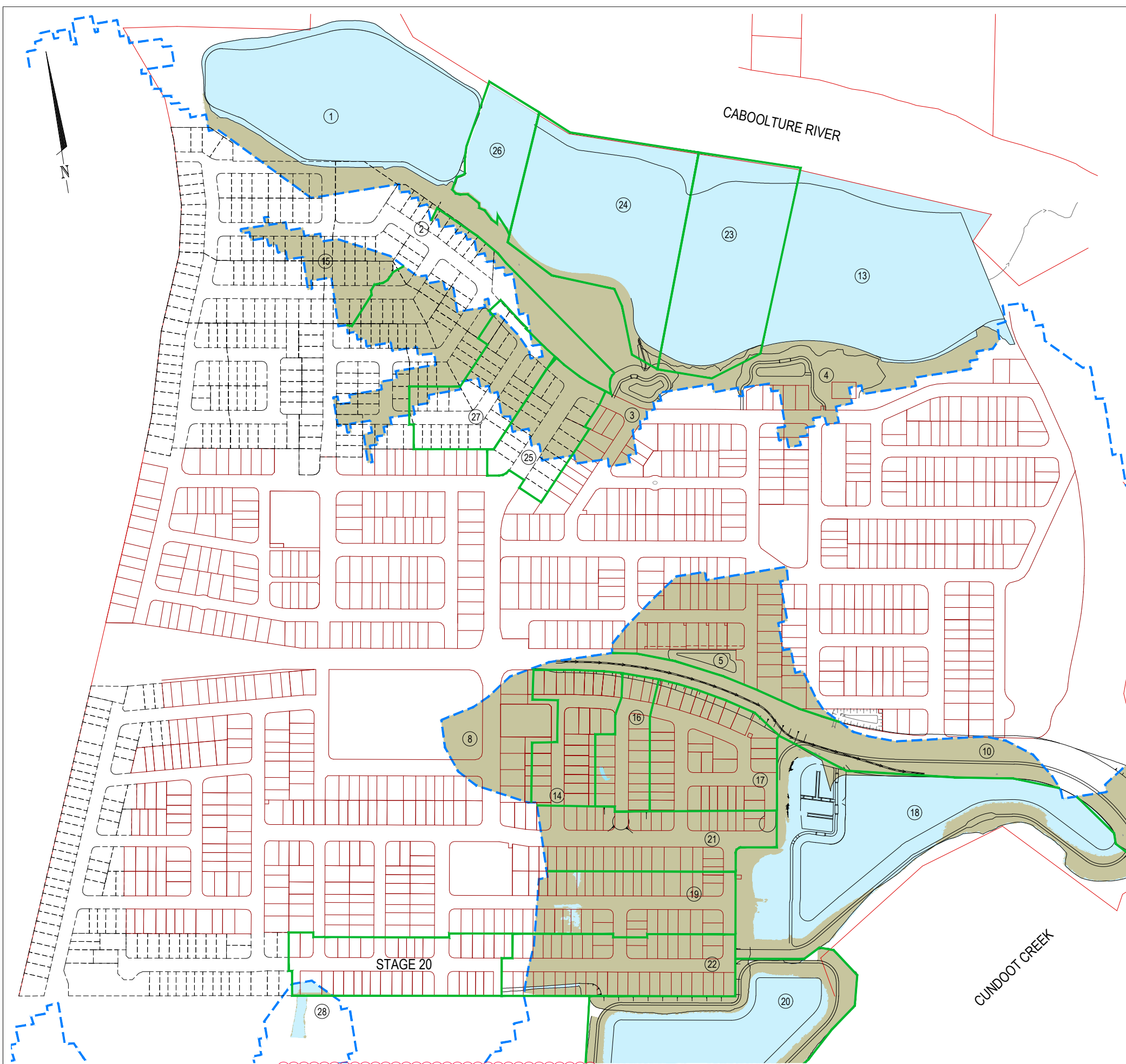


TYPICAL INDICATIVE CONCRETE BLOCK WALL (2.4m MAX.)
SCALE 1:20

- RETAINING WALL NOTES:
1. RETAINING WALLS TO BE CONSTRUCTED TO MANUFACTURERS SPECIFICATIONS.
 2. CONTRACTOR TO PROVIDE STRUCTURAL CERTIFICATION FOR RETAINING WALLS DESIGN AND CONSTRUCTION.
 3. PROVIDE TEMPORARY APPROVED SAFETY FENCE TO ALL WALLS HIGHER THAN 1.0m.
 4. ALL RETAINING WALL FOOTINGS TO BE LOCATED A MINIMUM 1.0m HORIZONTALLY CLEAR OF THE ROOFWATER AND SEWER AND BE TAKEN BELOW THE ZONE OF INFLUENCE.
 5. ALL SLEEPERS TO BE TIMBER LOOK FINISH.
 6. TO BE DESIGNED AND CERTIFIED BY RPEQ BASED ON GEOTECHNICAL STUDY.
 7. ENSURE FOOTING AND SUBSOIL DRAINAGE ARE WITHIN SAME PROPERTY BOUNDARY.
 8. RETAINING WALL DESIGNER IS TO PROVIDE A SAFETY IN DESIGN ASSESSMENT CONSIDERING / BUT NOT LIMITED TO HOW THE WALL IS SUPPORTED IF EXCAVATION ADJACENT TO WALL IS REQUIRED TO SERVICE IN GROUND INFRASTRUCTURE.

* The original issue or last amendment of this drawing contained the original signature.

<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>ISSUE DETAILS</th> <th>DRAWN</th> <th>DESIGN</th> <th>DRAWN CHECK</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.05.22</td> <td>ISSUED FOR APPROVAL</td> <td>CHC</td> <td>CR</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>23.03.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CH</td> <td>HS</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>03.11.23</td> <td>ROCK WALL TYPE AMENDED</td> <td>TM</td> <td>HS</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>20.11.23</td> <td>ROCK WALL TYPE AMENDED & BLOCK WALL ADDED</td> <td>DMP</td> <td>DMP</td> <td>DESIGN CHECK</td> <td></td> </tr> <tr> <td>A</td> <td>19.01.24</td> <td>AS CONSTRUCTED</td> <td>JM</td> <td>CH</td> <td></td> <td></td> </tr> </tbody> </table>		REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	1	13.05.22	ISSUED FOR APPROVAL	CHC	CR			2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS			3	03.11.23	ROCK WALL TYPE AMENDED	TM	HS			4	20.11.23	ROCK WALL TYPE AMENDED & BLOCK WALL ADDED	DMP	DMP	DESIGN CHECK		A	19.01.24	AS CONSTRUCTED	JM	CH			<p>AS CONSTRUCTED</p> <p>APPROVED: MARK WYER RPEQ 16190</p> <p>FOR & ON BEHALF OF EGIS CONSULTING PTY LTD</p>		<p>SCALE</p> <p>1:20 0 0.2 0.4 0.6 0.8 1 A1</p> <p>1:40</p> <p>1:500 10 5 0 10 20 A1</p> <p>1:1000</p>		<p>CLIENT</p> <p>PEET</p> <p>CABOOLTURE SYNDICATE LTD</p>		<p>PROJECT</p> <p>egis</p> <p>© 2023 Egis Consulting Pty Ltd www.egis-group.com</p>		<p>PROJECT</p> <p>RIVERBANK ESTATE STAGE 20</p> <p>DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.</p>		<p>M.B.R.C. REF No. DA/2021/0066</p> <p>DRAWING TITLE</p> <p>BULK EARTHWORKS RETAINING WALL TYPICAL DETAILS</p> <p>PROJECT No. 21-000058.1</p> <p>DRAWING No. 202</p> <p>REVISION A</p>	
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS																																																	
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COMPENSATORY EARTHWORKS VOLUMES

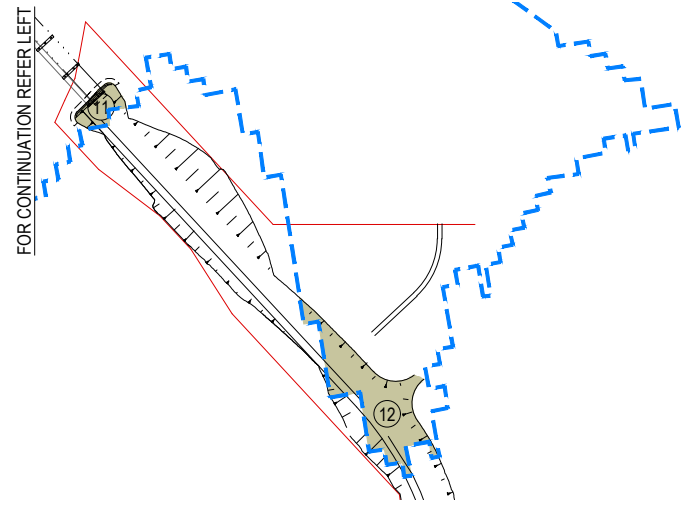
LOCATION	DESCRIPTION	CUT VOLUME (m ³)	FILL VOLUME (m ³)
1	NORTH WESTERN PARK CUT	99280	
2	INTERIM SWALES WITHIN FUTURE PARK	9150	
3	STAGE 9 AND BASIN FILL		15267
4	STAGE 10B AND PUMP STATION FILL	320	16006
5	STAGE 10C/STAGE 14 FILL		19369
8	STAGE 6A FILL		5555
10	MARKET DRIVE AND WESTERN BRIDGE EMBANKMENT		50376
11	EASTERN BRIDGE EMBANKMENT		2008
12	CUNDOOT CREEK ROAD FILL		1948
13	NORTH EASTERN PARK CUT	75632	
14	SOUTHERN PRECINCT		12418
15	STAGE 5	93	14360
16	STAGE 15A	79	14756
17	STAGE 15B	15053	39096
18	STAGE 15 BASIN	45872	33862
19	STAGE 16B	5811	65572
20	SOUTHERN PRECINCT DECANTING BASINS	93875	38352
21	STAGE 16C	126	42873
22	STAGE 17		45273
23	NORTHERN PARK	42140	
24	NORTHERN PARK	57632	
25	STAGE 2A	681	15609
26	NORTHERN PARK	10320	
27	STAGE 2B	1704	12874
28	STAGE 20	1332	105
SUBTOTALS		459100	445679
BALANCE		13,421m³ ADDITIONAL FLOOD STORAGE CREATED	

LEGEND

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 13-02-2024
 SIGNED: *Mark Wyer* DATE: _____
 MARK WYER RPEQ 16191

COMPENSATORY EARTHWORKS	
DESCRIPTION	PROPOSED
EARTHWORK CUT BELOW Q100 LEVEL	
EARTHWORK FILL BELOW Q100 LEVEL	
PRE-DEVELOPMENT 1%AEP FLOOD EXTENTS	
COMPENSATORY EARTHWORKS EXTENTS	



* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS
1	13.05.22	ISSUED FOR APPROVAL
2	23.03.23	ISSUED FOR CONSTRUCTION
A	19.01.24	AS CONSTRUCTED

DRAWN	DESIGN	DRAWN CHECK	STATUS
CHC	CR		AS CONSTRUCTED
CH	HS		
JM	CH		

DESIGN CHECK APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE

1:2500 50 0 50 100 A1
 1:5000

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PROJECT

RIVERBANK ESTATE STAGE 20

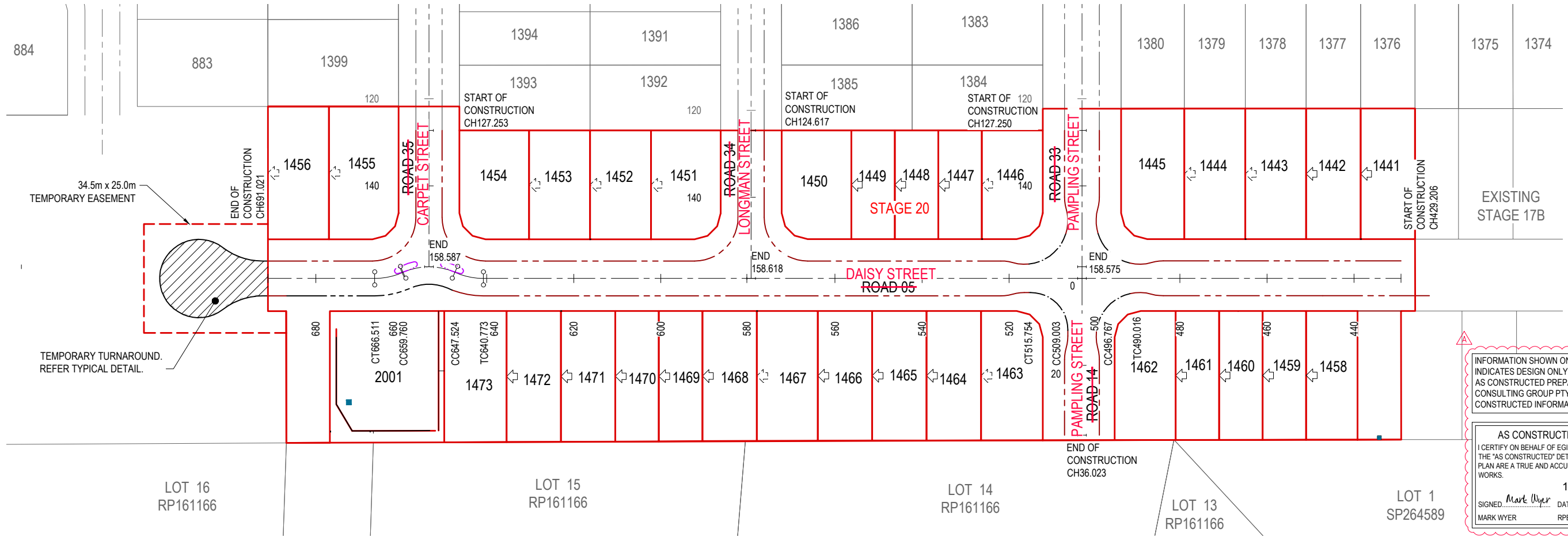
DISCLAIMER
 ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

M.B.R.C. REF No. DA/2021/0066

DRAWING TITLE

COMPENSATORY EARTHWORKS LAYOUT PLAN

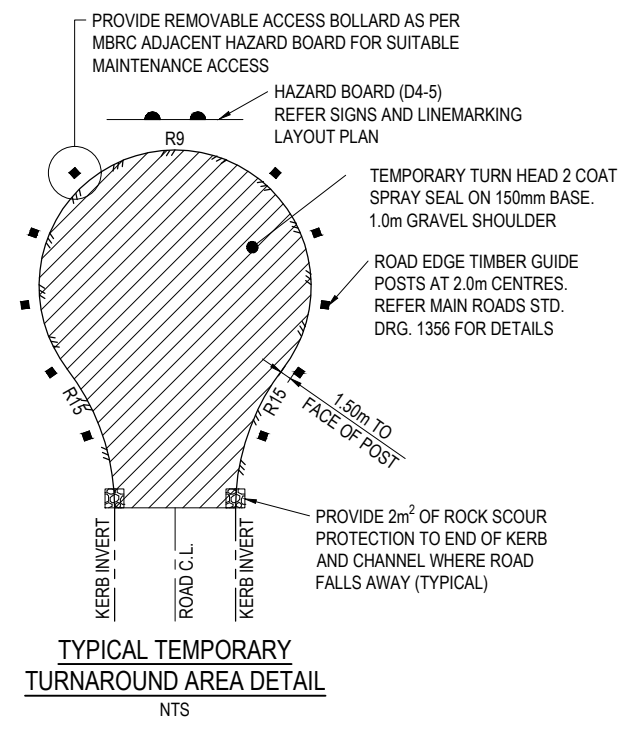
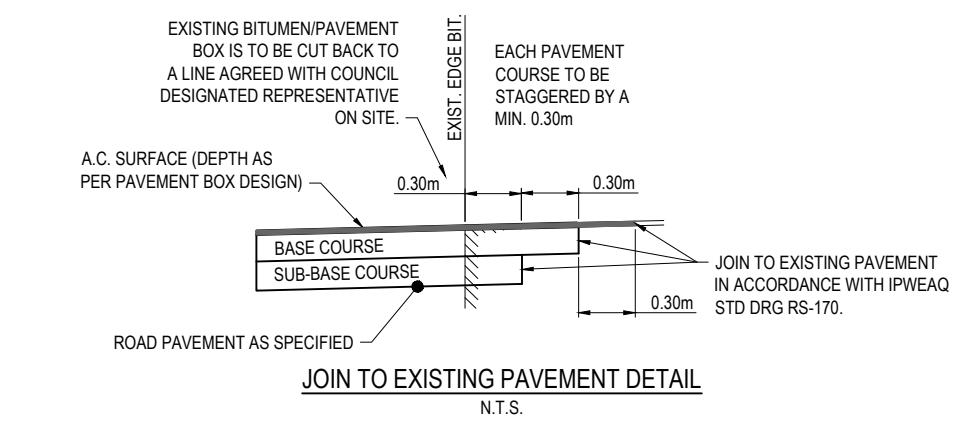
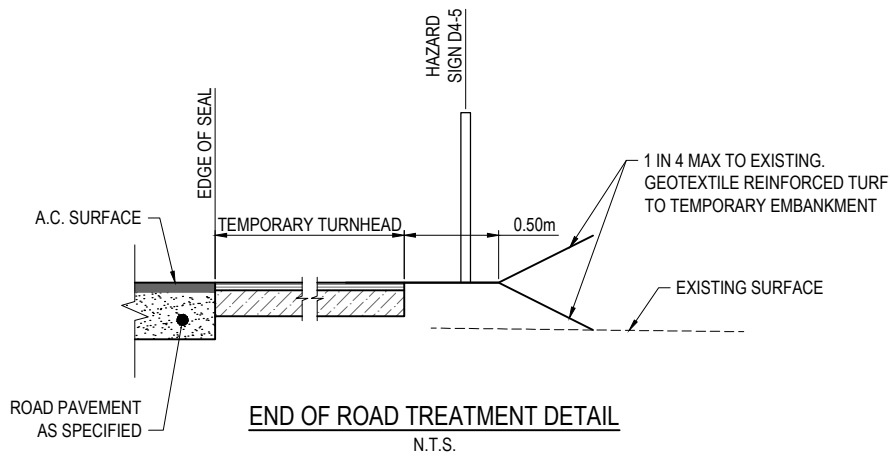
PROJECT No. 21-000058.1
 DRAWING No. 203
 REVISION A



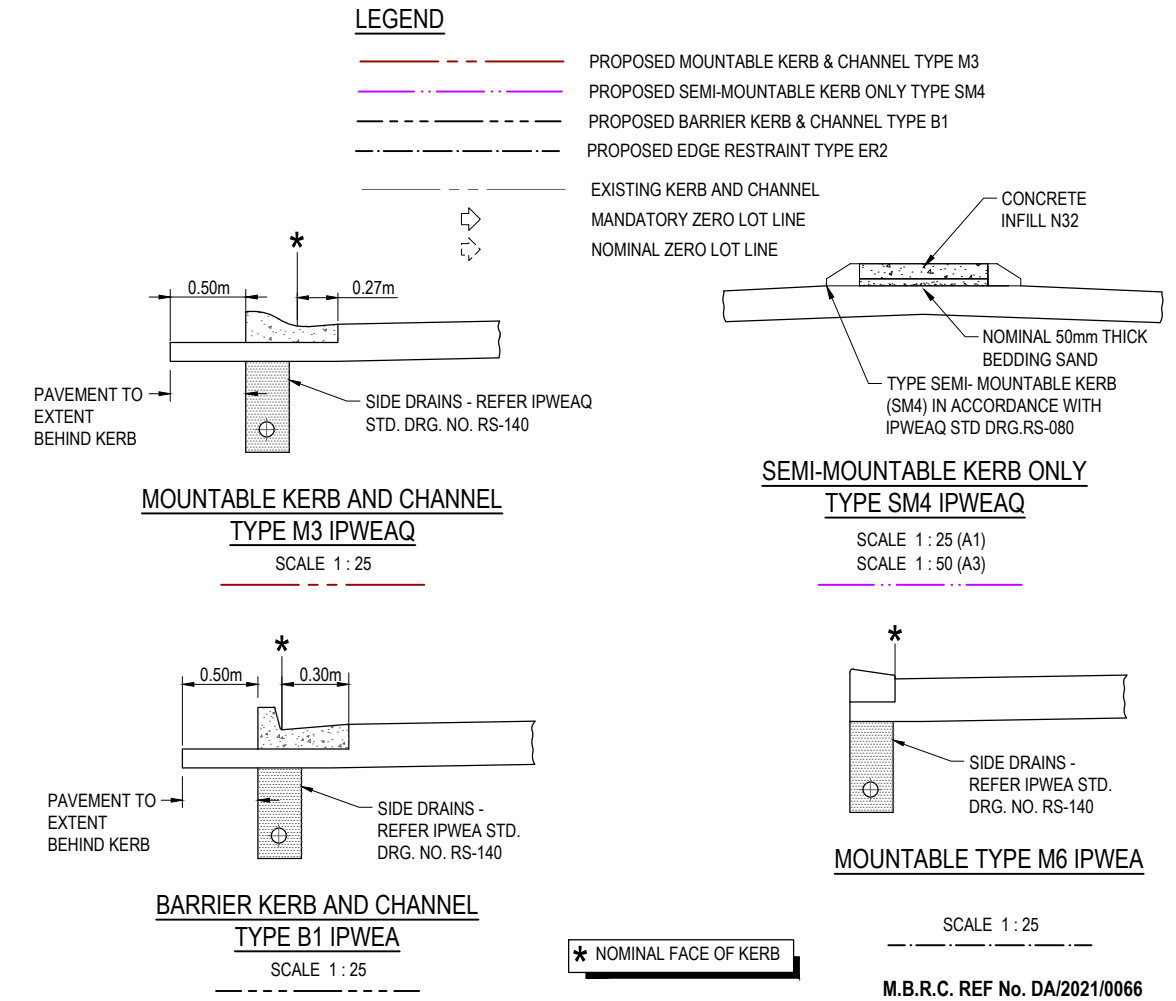
INFORMATION SHOWN ON THIS DRAWING INDICATES DESIGN ONLY. PLEASE REFER TO AS CONSTRUCTED PREPARED BY WOLTER CONSULTING GROUP PTY LTD FOR FINAL AS CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.

13-02-2024
SIGNED: Mark Wyer DATE: _____
MARK WYER RPEQ 16191



TEMPORARY TURNAROUND EMT NOTE:
TEMPORARY EASEMENTS ARE TO BE PROVIDED OVER THE TEMPORARY TURNAROUNDS SHOULD THE SUB STAGES BE CONSTRUCTED SEPARATELY.



REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS																					
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED																					
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS																							
3	23.05.23	MOUNTABLE TYPE M6 ADDED. ER2 EDGE RESTRAINT KERB REMOVED	LH	CH																							
A	19.01.24	AS CONSTRUCTED	JM	CH																							
<table border="1"> <tr> <td>DESIGN CHECK</td> <td>APPROVED</td> <td>MARK WYER</td> <td>RPEQ 16191</td> </tr> <tr> <td colspan="4">FOR & ON BEHALF OF EGIS CONSULTING PTY LTD</td> </tr> </table>							DESIGN CHECK	APPROVED	MARK WYER	RPEQ 16191	FOR & ON BEHALF OF EGIS CONSULTING PTY LTD																
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<table border="1"> <tr> <td>SCALE</td> <td>1:25</td> <td>0</td> <td>0.25</td> <td>0.5</td> <td>0.75</td> <td>1.0</td> <td>1.25</td> <td>A1</td> </tr> <tr> <td></td> <td>1:50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>A3</td> </tr> </table>		SCALE	1:25	0	0.25	0.5	0.75	1.0	1.25	A1		1:50							A3					<p>RIVERBANK ESTATE STAGE 20</p>		<p>CONTROL LINE LAYOUT PLAN</p>	
SCALE	1:25	0	0.25	0.5	0.75	1.0	1.25	A1																			
	1:50							A3																			
<table border="1"> <tr> <td>PROJECT No.</td> <td>21-000058.1</td> </tr> </table>		PROJECT No.	21-000058.1	<table border="1"> <tr> <td>DRAWING No.</td> <td>300</td> </tr> </table>		DRAWING No.	300	<table border="1"> <tr> <td>REVISION</td> <td>A</td> </tr> </table>		REVISION	A	<p>M.B.R.C. REF No. DA/2021/0066</p>		<p>DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.</p>													
PROJECT No.	21-000058.1																										
DRAWING No.	300																										
REVISION	A																										

DAISY STREET ROAD 5 CONTROL LINE SETOUT TABLE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
START	429.206	5912.164	2677.212	279°00'45.02"			
TC	490.016	5852.106	2686.738	279°00'45.02"			
IP 6	493.391	5848.721	2687.274		R = 16.000	6.751	24°10'31.92"
CC	496.767	5845.854	2689.150	303°11'16.93"			
IP 7	502.885	5840.406	2692.713		R = -14.500	12.236	48°21'03.84"
CC	509.003	5834.124	2691.011	254°50'13.10"			
IP 8	512.379	5830.817	2690.114		R = 16.000	6.751	24°10'31.92"
CT	515.754	5827.432	2690.651	279°00'45.02"			
TC	640.773	5703.957	2710.235	279°00'45.02"			
IP 9	644.148	5700.573	2710.772		R = 16.000	6.751	24°10'31.92"
CC	647.524	5697.706	2712.648	303°11'16.93"			
IP 10	653.642	5692.258	2716.211		R = -14.500	12.236	48°21'03.84"
CC	659.760	5685.976	2714.508	254°50'13.10"			
IP 11	663.136	5682.669	2713.612		R = 16.000	6.751	24°10'31.92"
CT	666.511	5679.284	2714.149	279°00'45.02"			
END	691.021	5655.078	2717.988	279°00'45.02"			

PAMPLING STREET ROAD 14 CONTROL LINE SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	5839.769	2688.694	189°00'45.02"
IP 2	36.023	5834.126	2653.116	189°00'45.02"

PAMPLING STREET ROAD 33 CONTROL LINE SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	BEARING
START	127.250	5845.095	2722.275	
END	158.575	5840.188	2691.336	189°00'44.56"

LONGMAN STREET ROAD 34 CONTROL LINE SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	BEARING
START	124.617	5770.033	2734.180	
END	158.618	5764.707	2700.600	189°00'45.02"

CARPET STREET ROAD 35 CONTROL LINE SETOUT TABLE				
PT	CHAINAGE	EASTING	NORTHING	BEARING
START	127.253	5696.947	2745.772	
END	158.587	5692.040	2714.834	189°00'45.02"

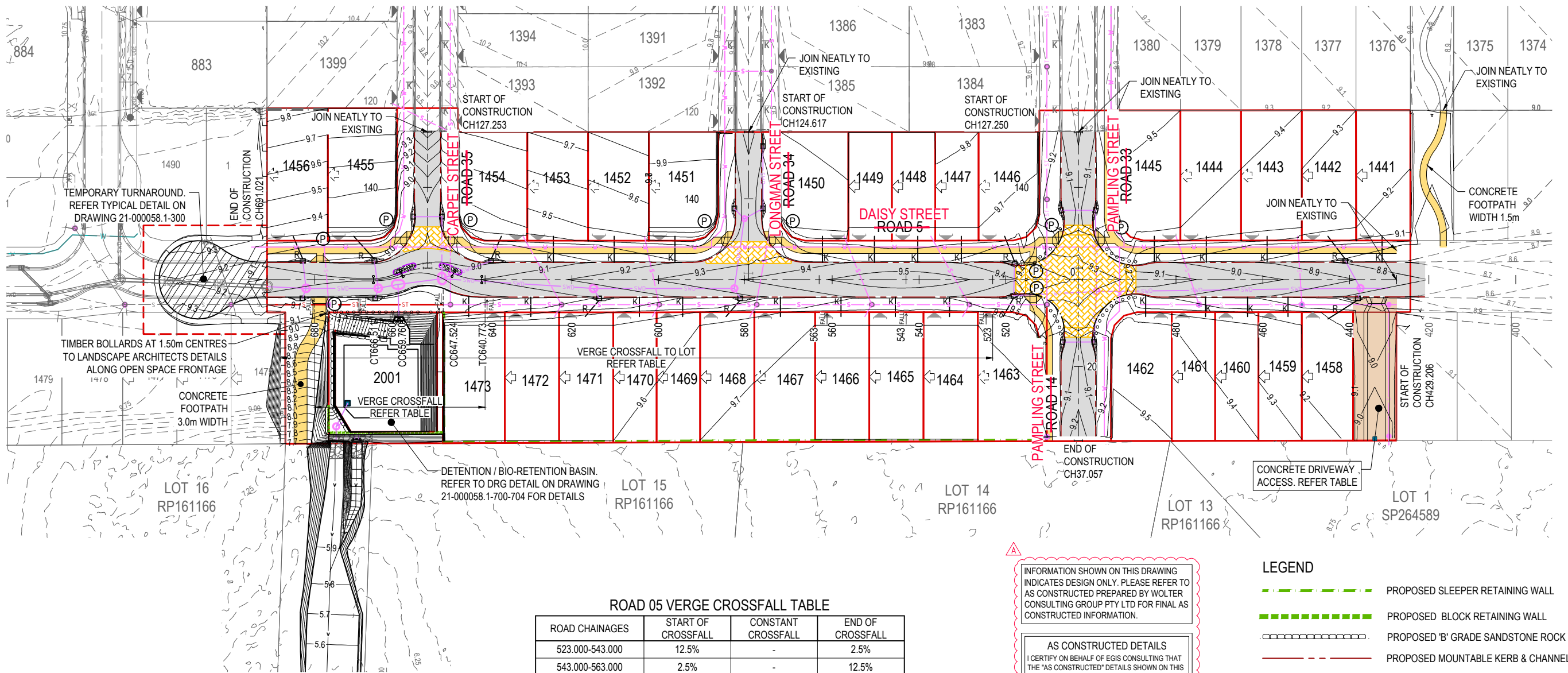
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13-02-2024
SIGNED: *Mark Wyer* DATE: _____
MARK WYER RPEQ 16191

* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED		PEET CABOOLTURE SYNDICATE LTD	egis © 2023 Egis Consulting Pty Ltd www.egis-group.com	RIVERBANK ESTATE STAGE 20	21-000058.1	301	A
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS									
A	19.01.24	AS CONSTRUCTED	JM	CH									
					DESIGN CHECK	APPROVED MARK WYER RPEQ 16191							
						FOR & ON BEHALF OF EGIS CONSULTING PTY LTD							

M.B.R.C. REF No. DA/2021/0066



TIMBER BOLLARDS AT 1.50m CENTRES TO LANDSCAPE ARCHITECTS DETAILS ALONG OPEN SPACE FRONTAGE

CONCRETE FOOTPATH 3.0m WIDTH

DETENTION / BIO-RETENTION BASIN. REFER TO DRG DETAIL ON DRAWING 21-000058.1-700-704 FOR DETAILS

ROAD 05 VERGE CROSSFALL TABLE

ROAD CHAINAGES	START OF CROSSFALL	CONSTANT CROSSFALL	END OF CROSSFALL
523.000-543.000	12.5%	-	2.5%
543.000-563.000	2.5%	-	12.5%
563.000-620.000	12.5%	-	12.5%
620.000-640.000	12.5%	-	2.5%
640.000-650.000	2.5%	-	-2.5%
650.000-670.000	-	-2.5%	-
670.000-680.000	-2.5%	-	2.5%
680.000-688.00	-2.5%	-	12.5%

CAUTION !!
UNDERGROUND TELECOMMS CABLES
UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

CAUTION !!
UNDERGROUND ELECTRICAL CABLES
UNDERGROUND ELECTRICITY CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

NOTE:
NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO.

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SIGNED: Mark Wyer DATE: _____
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- LEGEND**
- PROPOSED SLEEPER RETAINING WALL
 - PROPOSED BLOCK RETAINING WALL
 - PROPOSED 'B' GRADE SANDSTONE ROCK WALLS
 - PROPOSED MOUNTABLE KERB & CHANNEL TYPE 'M3'
 - PROPOSED SEMI-MOUNTABLE KERB ONLY TYPE SM4
 - PROPOSED BARRIER KERB & CHANNEL TYPE B1
 - PROPOSED EDGE RESTRAINT TYPE ER2
 - EXISTING SURFACE CONTOUR (0.5m INTERVALS)
 - DESIGN SURFACE CONTOUR (0.1m INTERVALS)
 - PROPOSED STORMWATER DRAINAGE
 - PROPOSED SEWERAGE RETICULATION
 - PROPOSED WATER RETICULATION
 - EXISTING STORMWATER DRAINAGE
 - EXISTING SEWERAGE RETICULATION
 - EXISTING WATER RETICULATION
 - K KERB ADAPTOR
 - R Ø150 uPVC ROOFWATER CONNECTION TO GULLY PIT
 - INDICATIVE DRIVEWAY LOCATIONS
 - MANDATORY ZERO LOT BOUNDARY
 - NOMINAL ZERO LOT BOUNDARY
 - PROPOSED AREA OF ASPHALT SURFACING
 - PROPOSED CONCRETE FOOTPATH IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING RS-065
 - PROPOSED THRESHOLD TREATMENT
 - PROPOSED RAMP IN ACCORDANCE WITH MBRC STANDARD DRAWING PC-2101

REINFORCED CONCRETE DRIVEWAY ACCESS DETAILS

DEPTH:	150mm
REINFORCEMENT:	1 LAYER SL92 MESH
COVER:	40mm TOP, 50mm TO EDGES
CONCRETE:	32 MPa/20mm MAX. AGG.
SLUMP:	50mm - 80mm
FINISH:	EXPOSED AGGREGATE FINISH
COLOUR:	TO BE CONFIRMED
JOINTING:	SAWN JOINTS
INVERT CROSSING:	TO IPWEAQ STD. DRG. SEQ RS-050

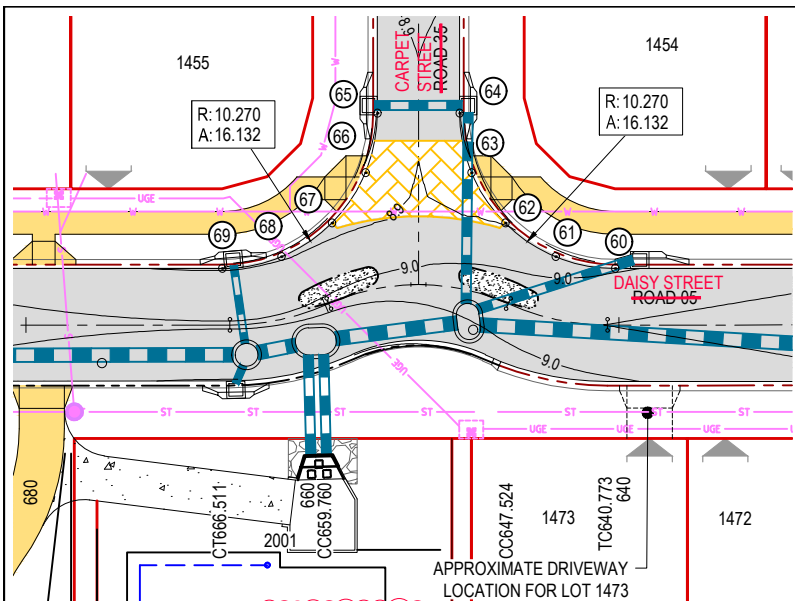
NOTE:
ACCESS AND SERVICES TO EXISTING PROPERTIES TO REMAIN AT ALL TIMES.

ROADWORKS AND DRAINAGE NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT MBRC STANDARD DRAWINGS AND METHODS.
- LEVELS FOR KERB AND CHANNELING CONSTRUCTION ARE AT EQUAL INTERVALS AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
- SIDE DRAINS TO BE CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL AND IN LOCATIONS DIRECTED BY THE SUPERINTENDENT IN ACCORDANCE WITH C.S.C. STANDARDS.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SATISFACTORY CONNECTION AND THE CONTRACTOR SHALL INCLUDE THE COST OF THIS WORK IN THE TENDER PRICE. WHERE NEW WORK JOINS EXISTING, THE WORK SHALL TRANSITION NEATLY WITH THE PAVEMENT SO THAT DEVIATION FROM THE LINE OF A 3.0m STRAIGHT EDGE SHALL BE NO GREATER THAN 10mm.
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT. FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION, TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
- CONTRACTOR TO LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- FOOTPATHS AND BATTERS TO HAVE MINIMUM OF 75mm TOPSOIL (AND GRASSING IF ORDERED).
- PROVIDE 'B' GRADE TURFING TO OUTLETS AS DIRECTED BY THE SUPERINTENDENT.
- ALL DISTURBED AREAS STEEPER THAN 1 IN 6 SHALL BE HYDROMULCHED, TURFED OR EQUIVALENT.
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- ALL FOOTPATHS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING RS-065

* The original issue or last amendment of this drawing contained the original signature.

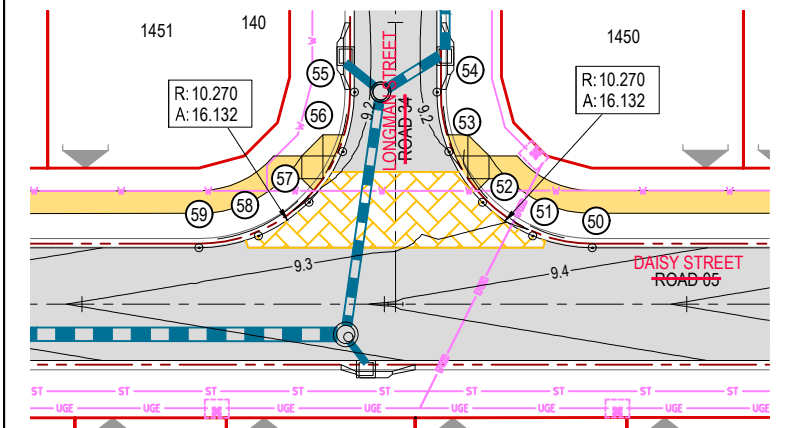
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DAISY STREET & CARPET STREET
ROAD 5 AND 35 - INTERSECTION
 SCALE 1:250 (A1)
 SCALE 1:500 (A3)

ROAD 5 AND ROAD 35 - INTERSECTION SETOUT TABLE

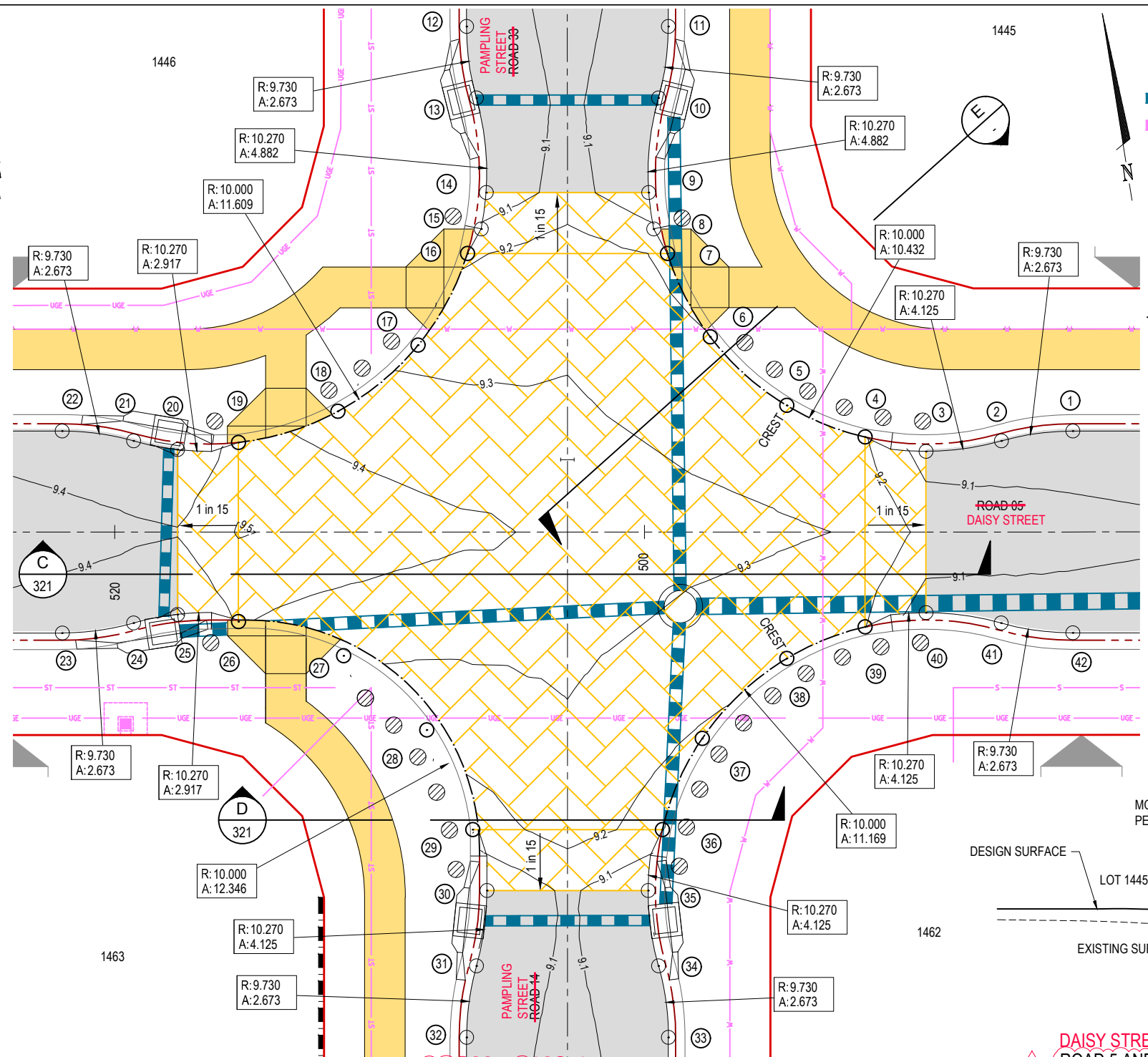
Point No.	Easting	Northing	Level
60	5705.044	2713.839	8.988
61	5701.285	2715.227	8.955
62	5698.343	2717.948	8.895
63	5696.666	2721.587	8.830
64	5696.510	2725.591	8.804
65	5691.117	2726.447	8.805
66	5689.730	2722.687	8.823
67	5687.009	2719.746	8.865
68	5683.370	2718.069	8.893
69	5679.366	2717.912	8.896



DAISY STREET & LONGMAN STREET
ROAD 5 AND 34 - INTERSECTION
 SCALE 1:250 (A1)
 SCALE 1:500 (A3)

ROAD 5 AND ROAD 34 - INTERSECTION SETOUT TABLE

Point No.	Easting	Northing	Level
50	5778.130	2702.247	9.358
51	5774.371	2703.635	9.325
52	5771.429	2706.356	9.266
53	5769.752	2709.995	9.202
54	5769.596	2713.999	9.169
55	5764.203	2714.855	9.169
56	5762.816	2711.095	9.183
57	5760.096	2708.153	9.211
58	5756.456	2706.477	9.233
59	5752.452	2706.320	9.228



DAISY STREET & PAMPLING STREET
ROAD 5 AND 33 AND 14 INTERSECTION
 SCALE 1:100 (A1)
 SCALE 1:200 (A3)

DAISY STREET & PAMPLING STREET
ROAD 5 AND ROAD 33 AND ROAD 14 - INTERSECTION SETOUT TABLE

Point No.	Easting	Northing	Level
1	5858.798	2689.453	9.031
2	5856.134	2689.506	9.042
3	5853.322	2689.562	9.051
4	5851.182	2690.434	9.205
5	5848.505	2692.043	9.221
6	5846.113	2694.989	9.202
7	5845.034	2698.277	9.186
8	5844.670	2699.252	9.034
9	5844.701	2700.608	9.028
10	5845.604	2704.005	9.016
11	5846.378	2706.555	9.023
12	5839.010	2707.724	9.023
13	5838.958	2705.059	9.016

DAISY STREET & PAMPLING STREET
ROAD 5 AND ROAD 33 AND ROAD 14 - INTERSECTION SETOUT TABLE

Point No.	Easting	Northing	Level
14	5838.766	2701.549	9.030
15	5838.374	2700.251	9.041
16	5837.728	2699.435	9.184
17	5835.396	2696.377	9.272
18	5832.083	2694.425	9.358
19	5828.278	2693.868	9.443
20	5826.015	2693.960	9.292
21	5824.458	2694.530	9.309
22	5821.908	2695.304	9.333
23	5820.739	2687.936	9.333
24	5823.403	2687.883	9.309
25	5825.060	2687.944	9.291
26	5827.241	2687.330	9.411

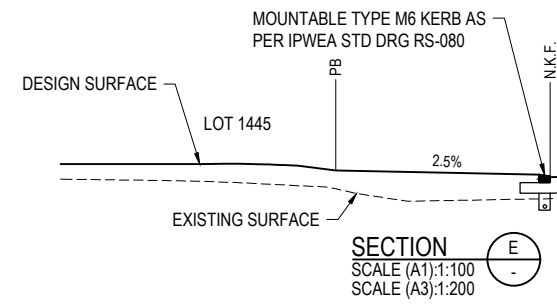
LEGEND

- PROPOSED STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- PROPOSED SEWERAGE RETICULATION
- PROPOSED WATER RETICULATION
- PROPOSED ELECTRICAL UNDERGROUND
- EXISTING ELECTRICAL UNDERGROUND
- PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
- PROPOSED BARRIER KERB & CHANNEL TYPE 'B1'
- PROPOSED MOUNTABLE TYPE 'M6'
- PROPOSED SPLITTER ISLAND
- DESIGN SURFACE CONTOUR (0.1m INTERVALS)
- KERB TANGENT POINT
- PROPOSED AREA OF ASPHALT SURFACING
- PROPOSED FOOTPATH
- STAMPED ASPHALT THRESHOLD TREATMENT
- BOLLARD. REFER TO IPWEAQ STD DRG GS-042

NOTE
 KERB SETOUT IS TO LIP OF KERB AND CHANNEL.
 LEVEL ARE SHOWN TO LIP OF KERB AND CHANNEL.
 KERB LEVELS SHOWN AT EQUAL INTERVALS, U.N.O.

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DAISY STREET & PAMPLING STREET
ROAD 5 AND ROAD 33 AND ROAD 14 - INTERSECTION SETOUT TABLE

Point No.	Easting	Northing	Level
27	5830.881	2685.471	9.328
28	5833.486	2682.284	9.244
29	5834.583	2678.379	9.161
30	5834.750	2676.075	9.007
31	5833.934	2673.385	9.009
32	5833.159	2670.834	9.022
33	5840.527	2669.665	9.022
34	5840.581	2672.329	9.012
35	5840.637	2675.141	9.011
36	5841.509	2677.281	9.165
37	5843.494	2680.382	9.187
38	5847.040	2682.807	9.218
39	5850.084	2683.508	9.203
40	5852.388	2683.676	9.049
41	5855.074	2682.861	9.042
42	5857.629	2682.085	9.031

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		
2	17.10.22	STORMWATER LAYOUT AMENDED	CH	CH		
3	20.01.23	STORMWATER LAYOUT AMENDED	CH	HS		
4	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
5	23.05.23	SECTION E ADDED. INTERSECTION SETOUT TABLES AMENDED	LH	CH		
A	19.01.24	AS CONSTRUCTED	JM	CH		

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE

1:100 1 0 1 2 3 4 5 A1

1:200 1 0 1 2 3 4 5 A3

1:250 5 0 5 10 A1

1:500 5 0 5 10 A3

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PEET

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PROJECT

RIVERBANK ESTATE
STAGE 20

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M.B.R.C. REF No. DA/2021/0066

DRAWING TITLE

INTERSECTION DETAILS
LAYOUT PLAN
SHEET 1 OF 2

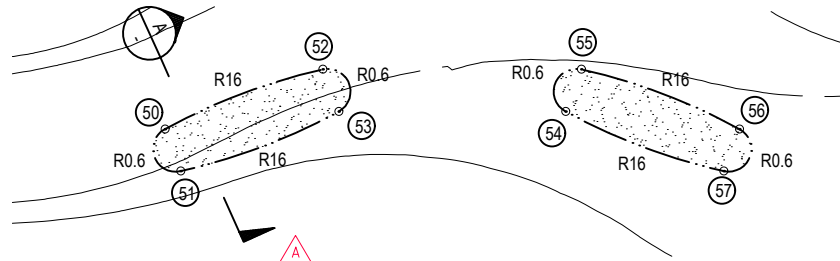
PROJECT No. 21-000058.1

DRAWING No. 320

REVISION A

DAISY STREET ROAD 5 ISLAND SETOUT TABLE

Point No.	Easting	Northing	Level
50	5684.469	2715.598	8.971
51	5684.709	2714.434	9.006
52	5688.844	2716.501	8.977
53	5689.084	2715.337	9.013
54	5695.006	2714.397	9.037
55	5695.595	2715.430	9.003
56	5699.476	2713.218	9.028

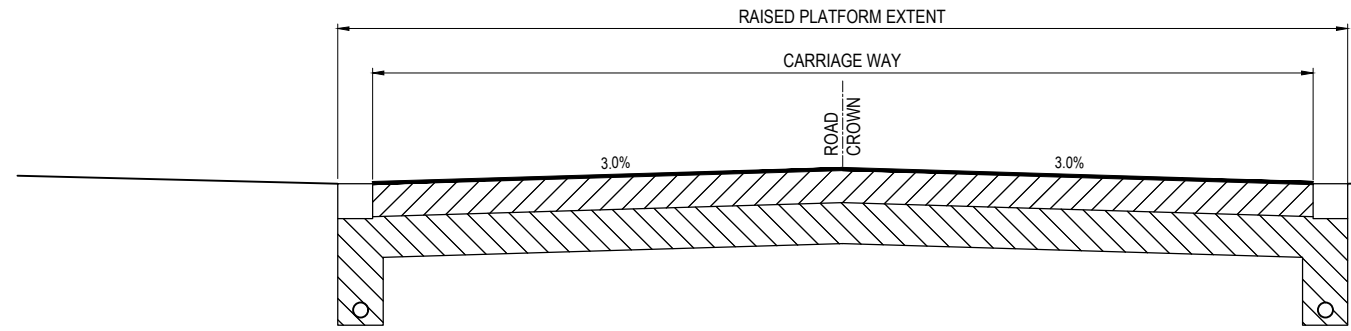


DAISY STREET ROAD 5 ISLAND DETAIL 2

SCALE 1:100 (A1)
SCALE 1:200 (A3)

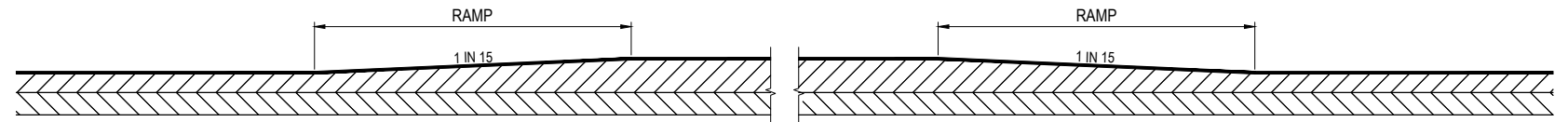
NOTE

KERB SETOUT IS TO LIP OF KERB AND CHANNEL.
LEVEL ARE SHOWN TO LIP OF KERB AND CHANNEL.
KERB LEVELS SHOWN AT EQUAL INTERVALS, U.N.O.

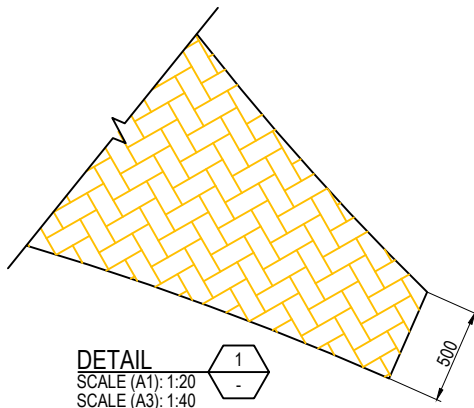


SECTION D
SCALE (A1):1:25
SCALE (A3):1:50

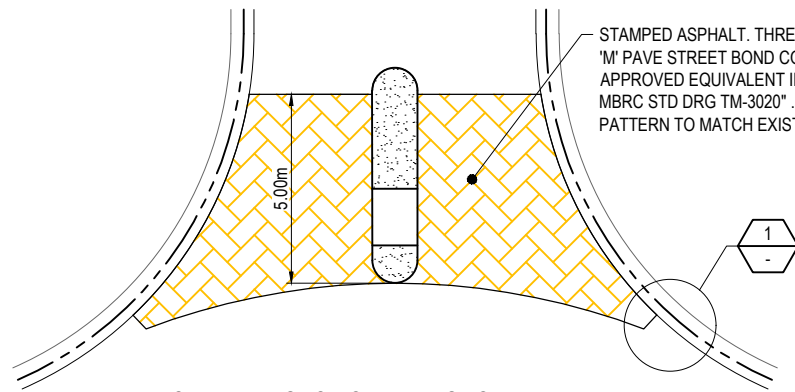
NOTE:
REFER TO MBRC STD DRG TM-3010 FOR RAISED RAMP DETAILS



SECTION C
SCALE (A1):1:25
SCALE (A3):1:50



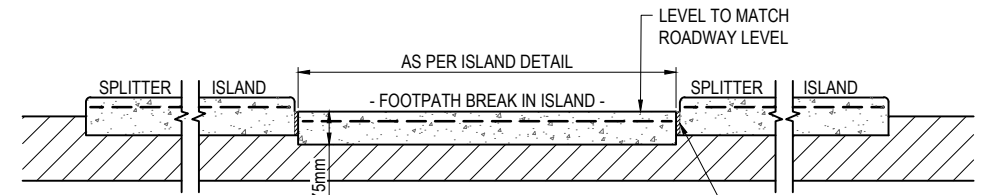
DETAIL 1
SCALE (A1): 1:20
SCALE (A3): 1:40



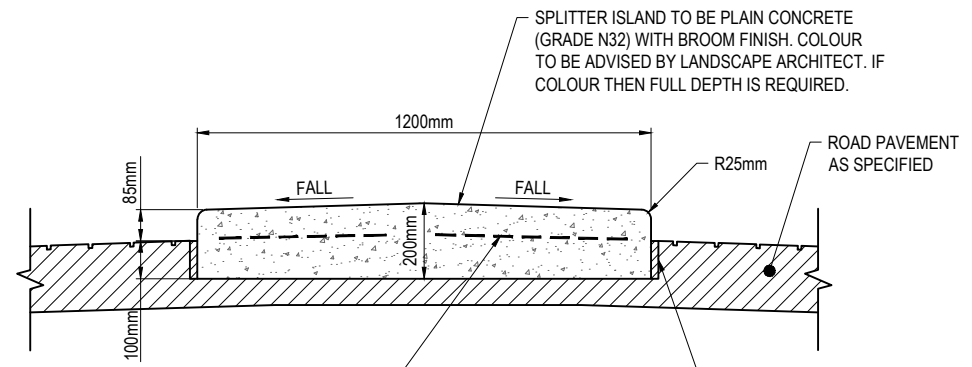
TYPICAL INTERSECTION THRESHOLD TREATMENT

SCALE 1:100 (A1)
SCALE 1:200 (A3)

STAMPED ASPHALT. THRESHOLD INFILL - BRICK 'M' PAVE STREET BOND COLOUR 'BRICK' OR APPROVED EQUIVALENT IN ACCORDANCE WITH MBRC STD DRG TM-3020". COLOUR AND PATTERN TO MATCH EXISTING STAGE 16



SECTION B
SCALE (A1):1:20
SCALE (A3):1:40



SECTION A
SCALE (A1):1:10
SCALE (A3):1:20

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AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
13-02-2024
SIGNED: Mark WYER DATE: _____
MARK WYER RPEQ 16191

* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
A	19.01.24	AS CONSTRUCTED	JM	CH		
					DESIGN CHECK	APPROVED MARK WYER RPEQ 16191
						FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE	1:10	0.1	0	0.1	0.2	0.3	0.4	0.5	A1
1:20	0.2	0	0.2	0.4	0.6	0.8	1		A3
1:40	0.5	0	0.5	1	1.5	2			A3
1:50	1	0.5	0	1	2				A1
1:100	1	0	1	2	3	4	5		A3
1:100	1	0	1	2	3	4	5		A1
1:200	1	0	1	2	3	4	5		A3

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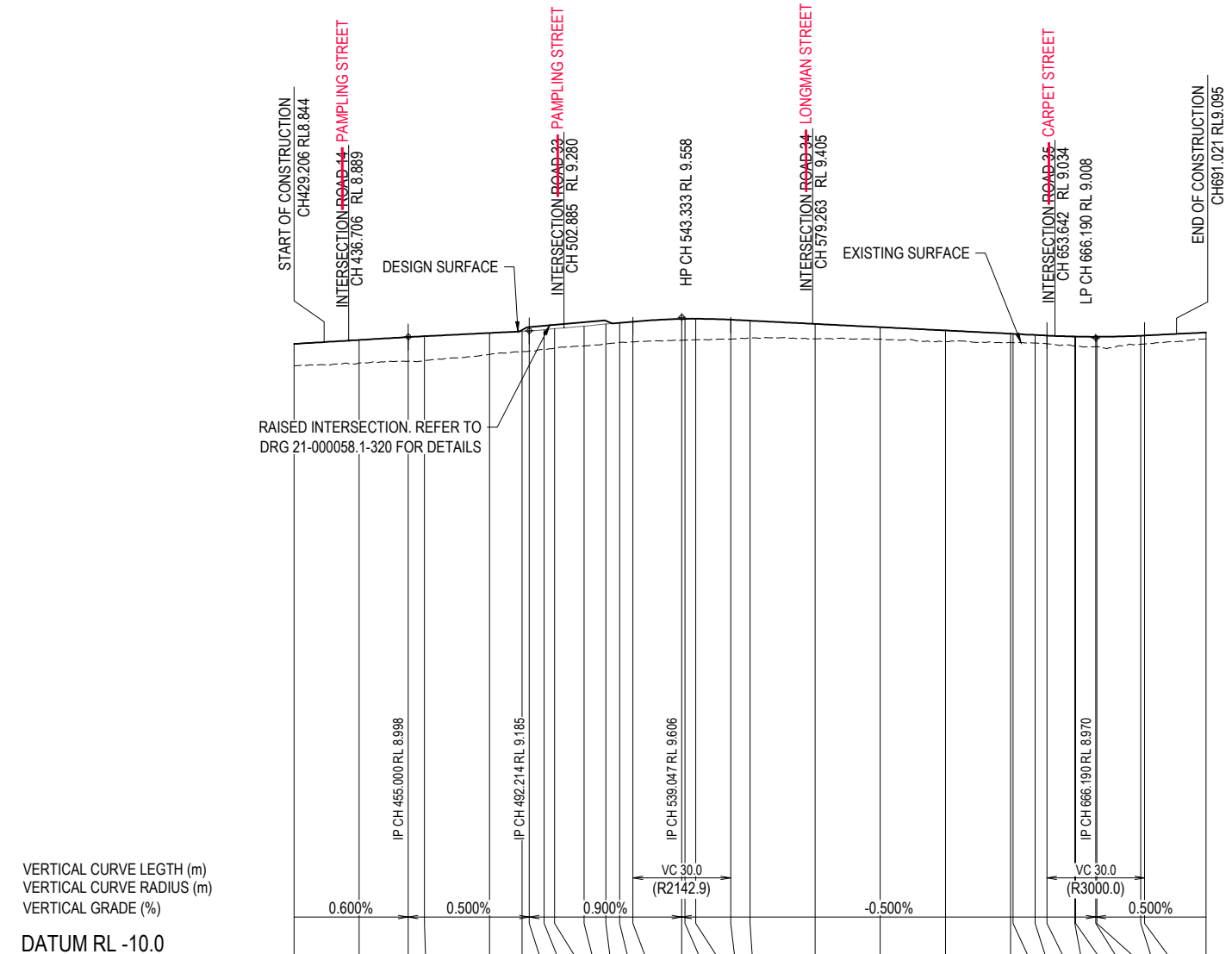
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PROJECT
RIVERBANK ESTATE STAGE 20

DRAWING TITLE
INTERSECTION DETAILS LAYOUT PLAN SHEET 2 OF 2

M.B.R.C. REF No. DA/2021/0066
PROJECT No. 21-000058.1
DRAWING No. 321
REVISION A

NOTE:
 REFER TO PAVEMENT LAYOUT PLAN 21-000058.1-350
 FOR PAVEMENT NOTES, PRELIMINARY PAVEMENT
 DESIGN TABLE AND END OF ROAD TREATMENT DETAILS



VERTICAL CURVE LEATH (m)
 VERTICAL CURVE RADIUS (m)
 VERTICAL GRADE (%)
 DATUM RL -10.0

CUT (-) / FILL	0.673	0.707	0.738	0.752	0.661	0.621	0.620	0.604	0.598	0.612	0.606	0.600	0.625	0.656	0.649	0.643	0.599	0.537	0.455	0.369	0.338	0.273	0.277	0.248	0.253	0.295	0.297	0.302	0.307	0.256	0.256	0.192
LHS LIP LEVEL	⊗	8.887	8.887	8.912	9.012	9.062	9.073	9.114	9.143	9.224	9.285	9.323	9.359	9.442	9.443	9.446	9.419	9.389	9.289	9.189	9.089	8.989	8.986	8.952	8.933	8.903	8.902	8.896	8.896	8.928	8.933	9.027
RHS LIP LEVEL	8.677	8.797	8.887	8.912	9.012	⊗	9.073	9.114	9.143	9.224	9.285	9.323	9.359	9.442	9.443	9.446	9.419	9.389	⊗	9.189	9.089	8.989	⊗	8.952	8.933	8.903	8.902	8.896	8.896	8.928	8.933	9.027
DESIGN SURFACE	8.788	8.908	8.998	9.023	9.123	9.174	9.185	9.226	9.255	9.336	9.396	9.435	9.471	9.554	9.555	9.558	9.531	9.501	9.401	9.301	9.201	9.101	9.097	9.064	9.045	9.015	9.014	9.008	9.040	9.045	9.139	
EXISTING SURFACE	8.115	8.202	8.260	8.271	8.463	8.552	8.565	8.622	8.657	8.723	8.790	8.834	8.846	8.898	8.906	8.914	8.932	8.964	8.946	8.833	8.663	8.528	8.520	8.515	8.503	8.479	8.478	8.476	8.408	8.408	8.497	
CHAINAGES	420.000	440.000	455.000	460.000	480.000	490.016	492.214	496.767	500.000	509.003	515.754	520.000	524.047	539.047	540.000	543.333	554.047	560.000	580.000	600.000	620.000	640.000	640.773	647.524	651.190	659.760	660.000	666.190	666.511	680.000	681.190	700.000
HORIZONTAL CURVES	R16 R-14.5 R16										R16 R-14.5 R16																					

LONGITUDINAL SECTION - ROAD 05 DAISY STREET

⊗ REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

HORIZ SCALE: 1000
 VERTICAL SCALE: 100

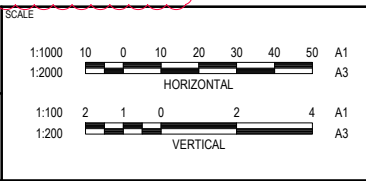
INFORMATION SHOWN ON THIS DRAWING INDICATES DESIGN ONLY. PLEASE REFER TO AS CONSTRUCTED PREPARED BY WOLTER CONSULTING GROUP PTY LTD FOR FINAL AS CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: *Mark Wyrer* DATE: 13-02-2024
 MARK WYER RPEQ 16191

* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
A	19.01.24	AS CONSTRUCTED	JM	CH		

AS CONSTRUCTED
 APPROVED
 MARK WYER RPEQ 16191
 FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

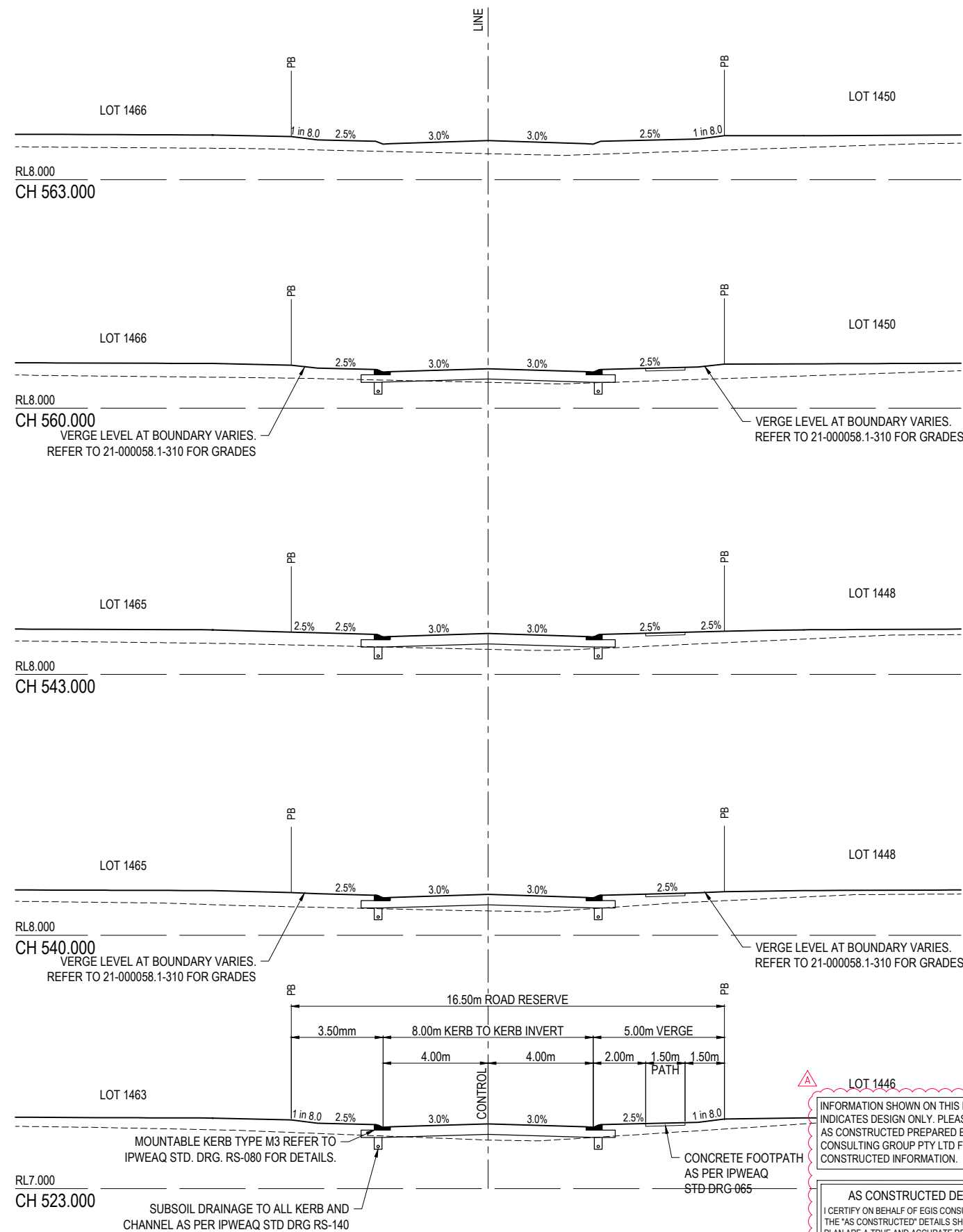
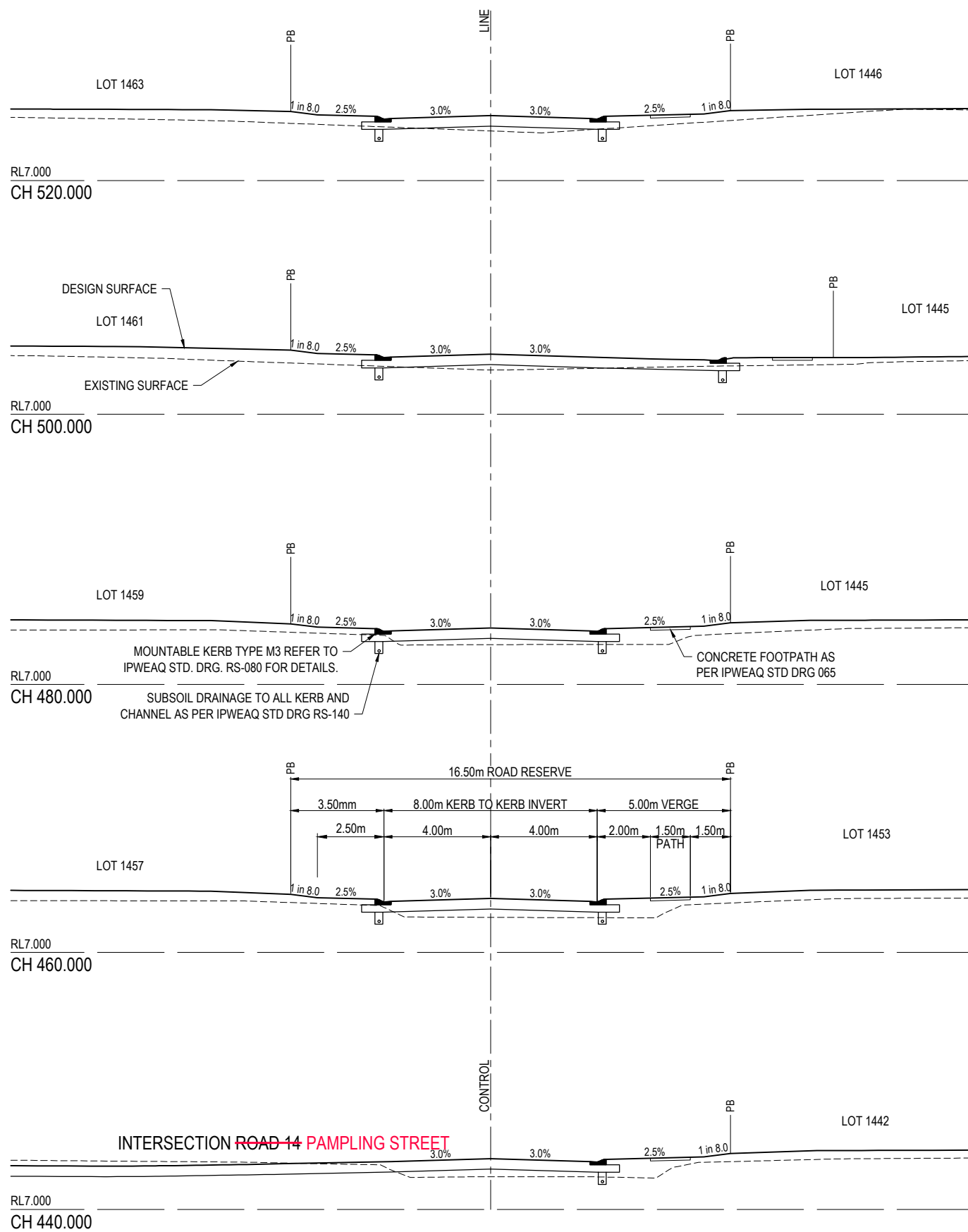


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RIVERBANK ESTATE STAGE 20
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M.B.R.C. REF No. DA/2021/0066
DAISY STREET ROAD 05
LONGITUDINAL SECTION
 PROJECT No. 21-000058.1
 DRAWING No. 330
 REVISION A



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MARK WYER RPEQ 16191

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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
A	19.01.24	AS CONSTRUCTED	JM	CH		
					DESIGN CHECK	APPROVED
						MARK WYER RPEQ 16191
						FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE	HORIZONTAL	VERTICAL
1:1000	10 0 10 20 30 40 50 A1	
1:2000		
1:100	2 1 0 2 4 A1	
1:200		

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PROJECT

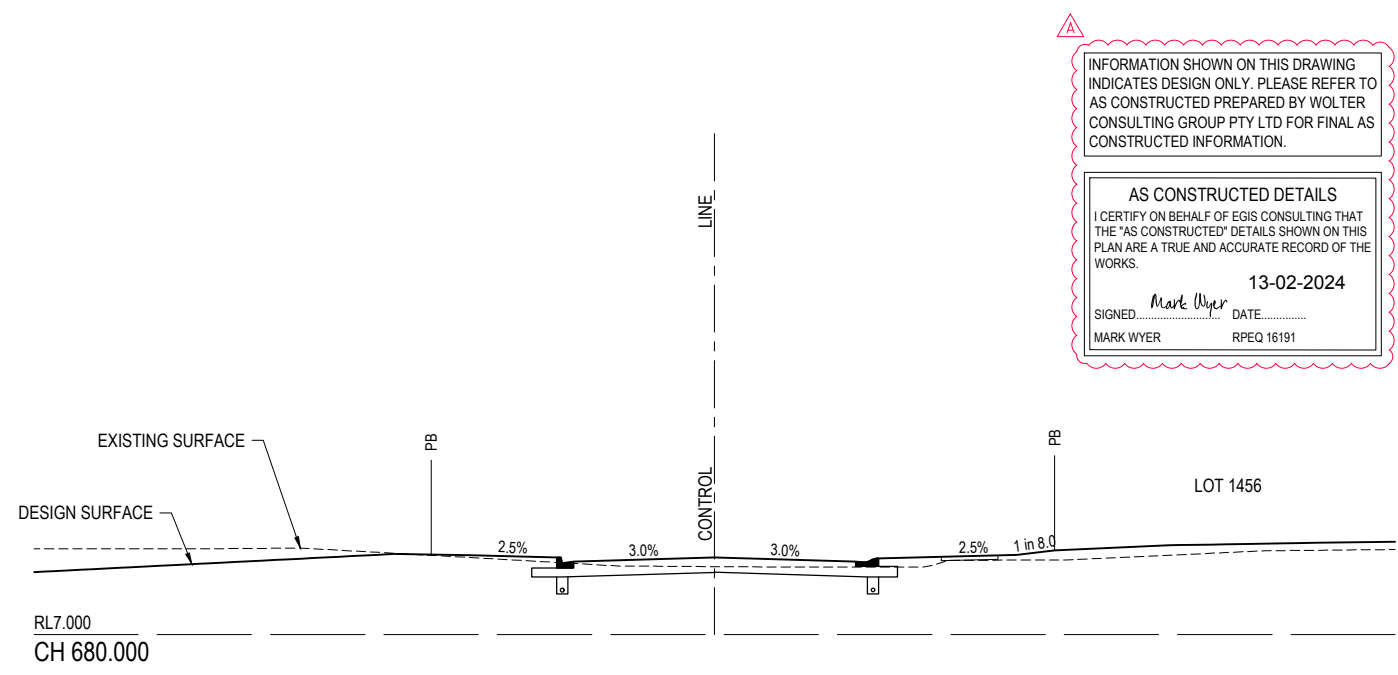
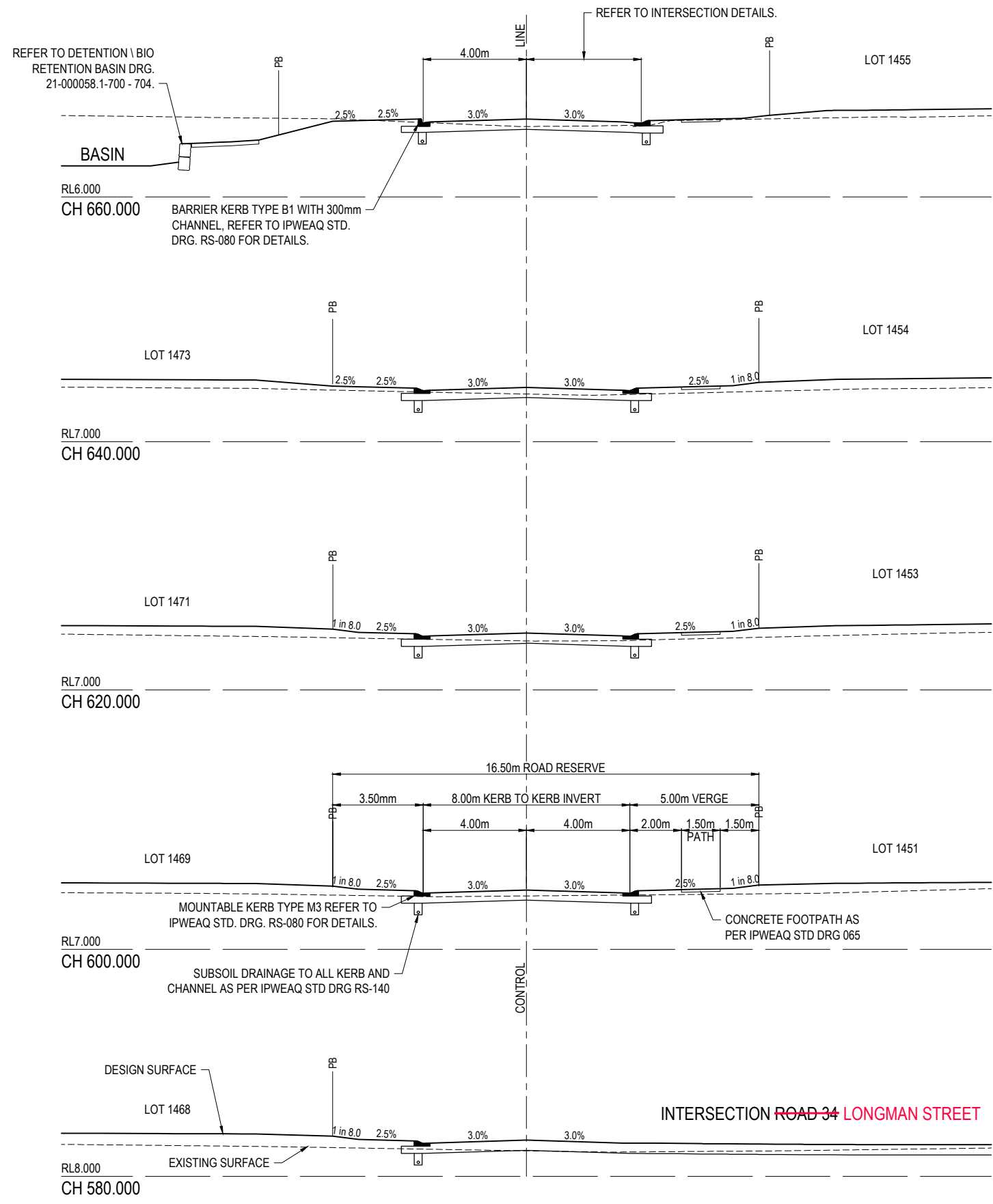
RIVERBANK ESTATE STAGE 20

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DRAWING TITLE

DAISY STREET ROAD 05
CROSS SECTIONS SHEET 1 OF 2

PROJECT No.	DRAWING No.	REVISION
21-000058.1	331	A



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SIGNED *Mark Wyer* DATE 13-02-2024

MARK WYER RPEQ 16191

* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
A	19.01.24	AS CONSTRUCTED	JM	CH		
					DESIGN CHECK	APPROVED
						MARK WYER RPEQ 16191
						FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE

1:100

1 0 1 2 3 4 5 A1

1:200

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RIVERBANK ESTATE

STAGE 20

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DRAWING TITLE

DAISY STREET

ROAD 05

CROSS SECTIONS

SHEET 2 OF 2

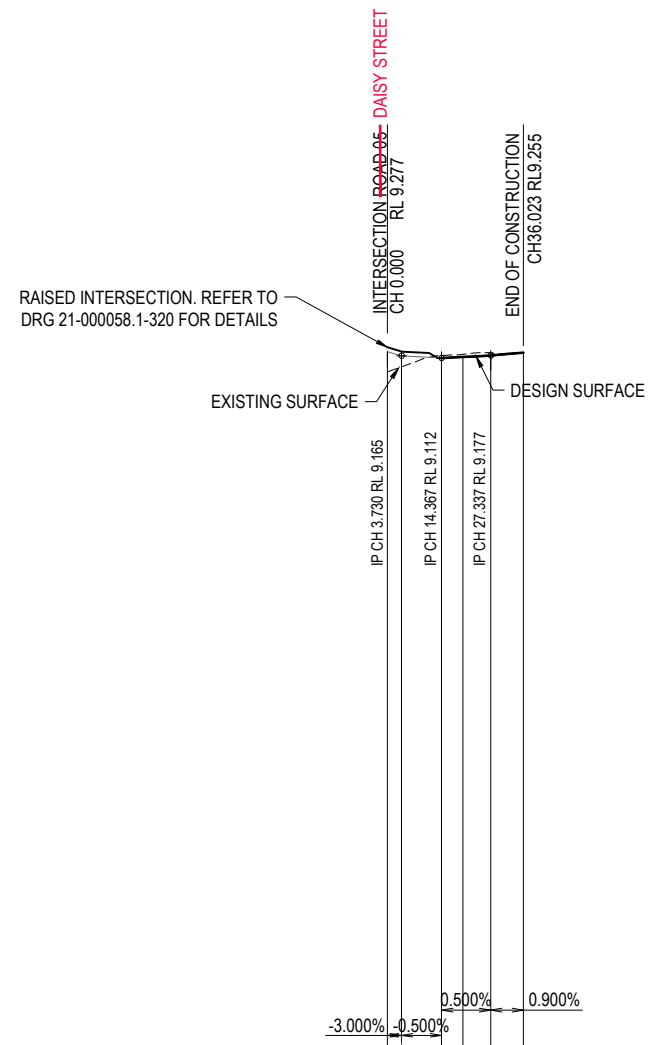
M.B.R.C. REF No. DA/2021/0066

PROJECT No. 21-000058.1

DRAWING No. 332

REVISION A

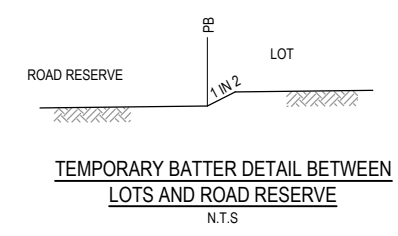
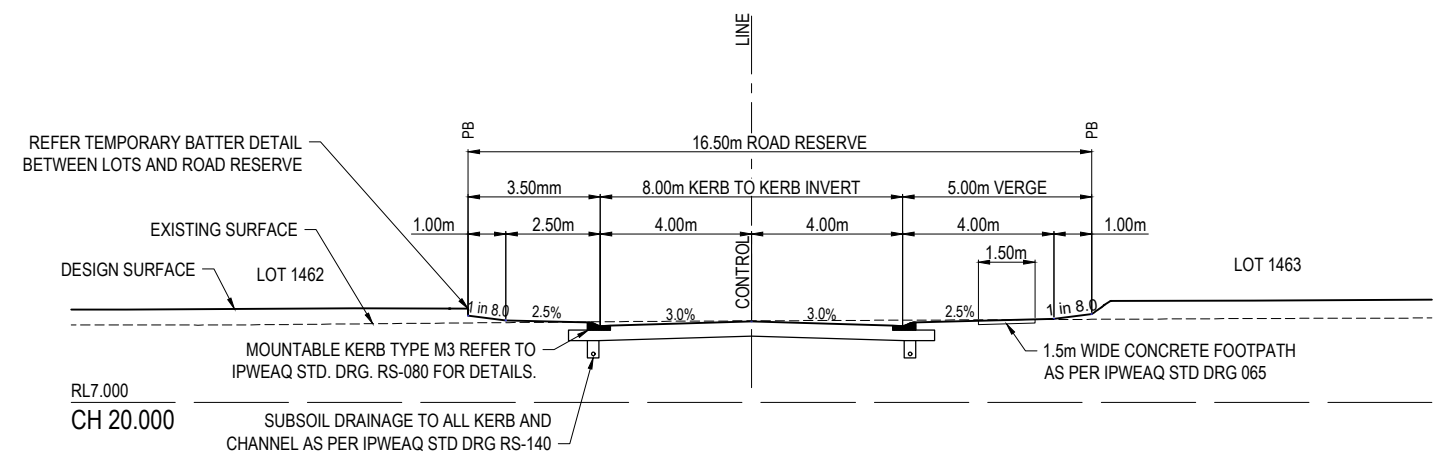
NOTE:
 REFER TO PAVEMENT LAYOUT PLAN 21-000058.1-350
 FOR PAVEMENT NOTES, PRELIMINARY PAVEMENT
 DESIGN TABLE AND END OF ROAD TREATMENT DETAILS



DATUM RL -10.0

CUT (-) / FILL	0.535	0.288	-0.069	0.073	-0.079	0.005
LHS LIP LEVEL			9.011	9.028	9.065	9.882
RHS LIP LEVEL			9.011	9.028	9.065	9.882
DESIGN SURFACE	9.277	9.165	9.112	9.140	9.177	9.255
EXISTING SURFACE	8.742	8.877	9.181	9.213	9.256	9.250
CHAINAGES	0.000	3.730	14.367	20.000	27.337	36.023
HORIZONTAL CURVES						

LONGITUDINAL SECTION - ROAD 14 PAMPLING STREET
 HORIZ SCALE: 1000
 VERTICAL SCALE: 100



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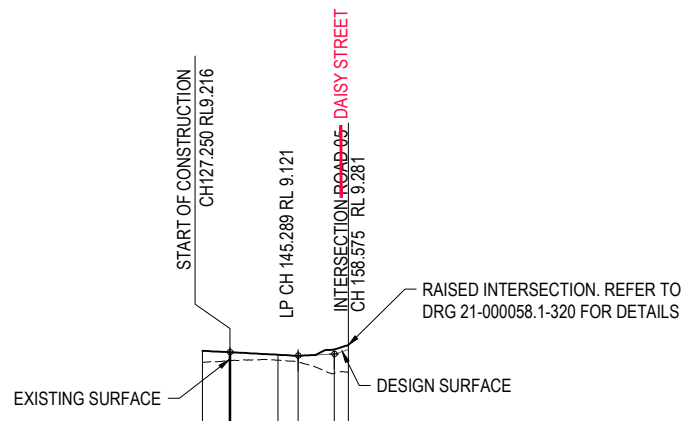
AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: *Mark Wyer* DATE: 13-02-2024
 MARK WYER RPEQ 16191

REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

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<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>ISSUE DETAILS</th> <th>DRAWN</th> <th>DESIGN</th> <th>DRAWN CHECK</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.05.22</td> <td>ISSUED FOR APPROVAL</td> <td>CHC</td> <td>CR</td> <td></td> <td rowspan="3">AS CONSTRUCTED</td> </tr> <tr> <td>2</td> <td>23.03.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CH</td> <td>HS</td> <td></td> </tr> <tr> <td>A</td> <td>19.01.24</td> <td>AS CONSTRUCTED</td> <td>JM</td> <td>CH</td> <td></td> </tr> </tbody> </table>	REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED	2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		A	19.01.24	AS CONSTRUCTED	JM	CH		<table border="1"> <tr> <td>APPROVED</td> <td>MARK WYER</td> <td>RPEQ 16191</td> </tr> <tr> <td>FOR & ON BEHALF OF</td> <td colspan="2">EGIS CONSULTING PTY LTD</td> </tr> </table>	APPROVED	MARK WYER	RPEQ 16191	FOR & ON BEHALF OF	EGIS CONSULTING PTY LTD		<p>SCALE</p> <p>1:100 1 0 1 2 3 4 5 A1 1:200</p>	<p>CLIENT</p> <p>PEET CABOOLTURE SYNDICATE LTD</p>	<p>PROJECT</p> <p>egis © 2023 Egis Consulting Pty Ltd www.egis-group.com</p>	<p>PROJECT</p> <p>RIVERBANK ESTATE STAGE 20</p>	<p>DRAWING TITLE</p> <p>PAMPLING STREET ROAD 14 LONGITUDINAL AND CROSS SECTIONS</p>	<p>M.B.R.C. REF No. DA/2021/0066</p>	<table border="1"> <tr> <td>PROJECT No.</td> <td>DRAWING No.</td> <td>REVISION</td> </tr> <tr> <td>21-000058.1</td> <td>333</td> <td>A</td> </tr> </table>	PROJECT No.	DRAWING No.	REVISION	21-000058.1	333	A
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS																																								
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED																																								
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FOR & ON BEHALF OF	EGIS CONSULTING PTY LTD																																													
PROJECT No.	DRAWING No.	REVISION																																												
21-000058.1	333	A																																												

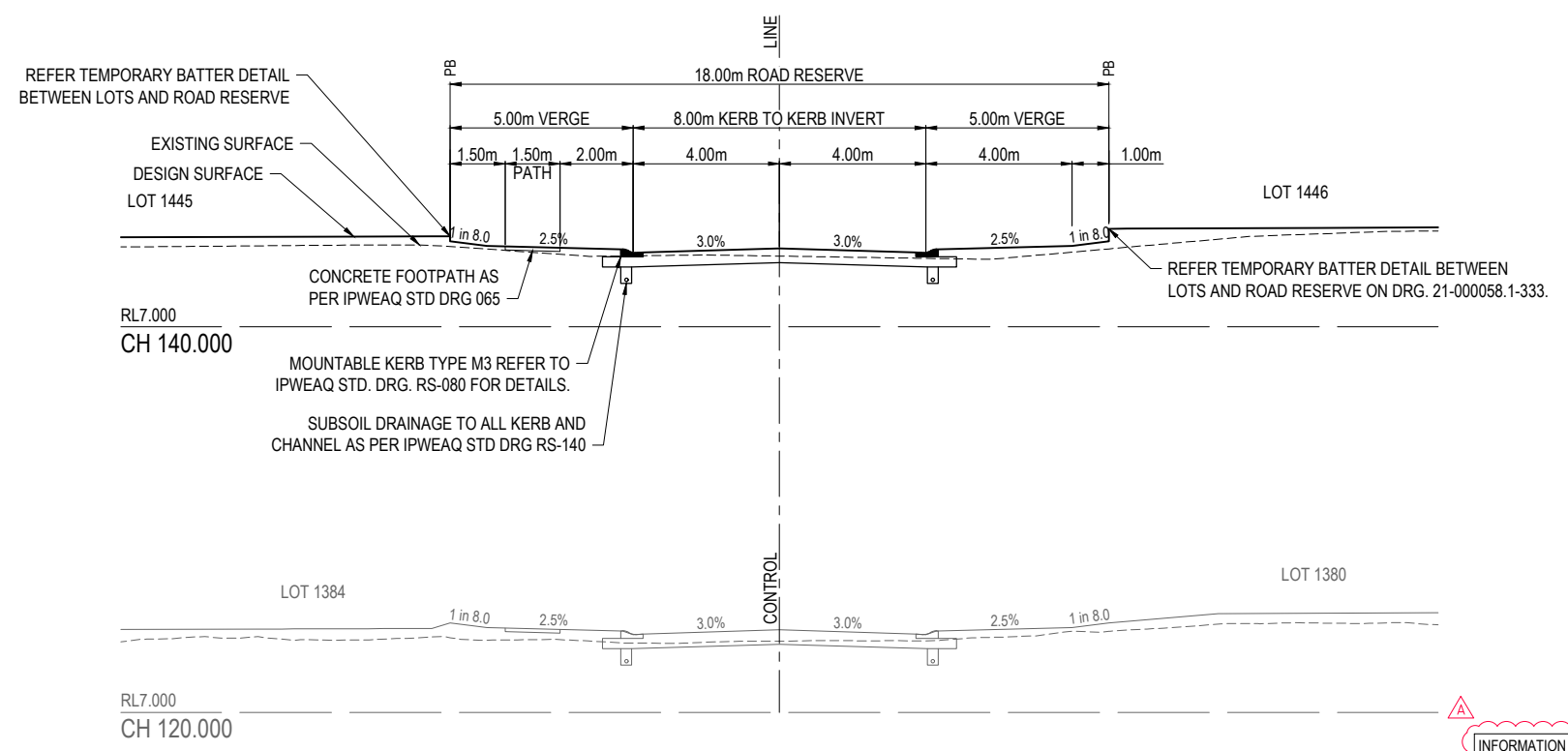
NOTE:
 REFER TO PAVEMENT LAYOUT PLAN 21-000058.1-350
 FOR PAVEMENT NOTES, PRELIMINARY PAVEMENT
 DESIGN TABLE AND END OF ROAD TREATMENT DETAILS



DATUM RL -10.0

	120.000	127.314	140.000	145.289	154.845	158.575
CUT (-) / FILL	0.310	0.222	0.141	0.162	0.513	0.596
LHS LIP LEVEL	9.141	9.080	9.037	9.009		
RHS LIP LEVEL	9.141	9.087	9.037	9.009		
DESIGN SURFACE	9.253	9.209	9.149	9.121	9.169	9.280
EXISTING SURFACE	8.942	8.994	9.008	8.959	8.656	8.685
CHAINAGES	120.000	127.314	140.000	145.289	154.845	158.575
HORIZONTAL CURVES						

LONGITUDINAL SECTION - ROAD 33 PAMPLING STREET
 HORIZ SCALE: 1000
 VERTICAL SCALE: 100



REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

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 13-02-2024
 SIGNED: *Mark Wyer* DATE:
 MARK WYER RPEQ 16191

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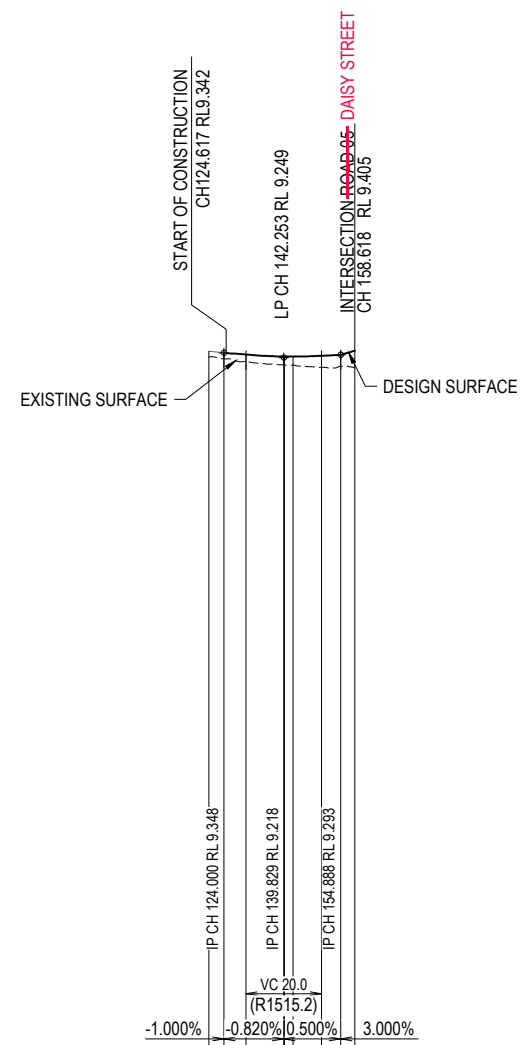
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M.B.R.C. REF No. DA/2021/0066

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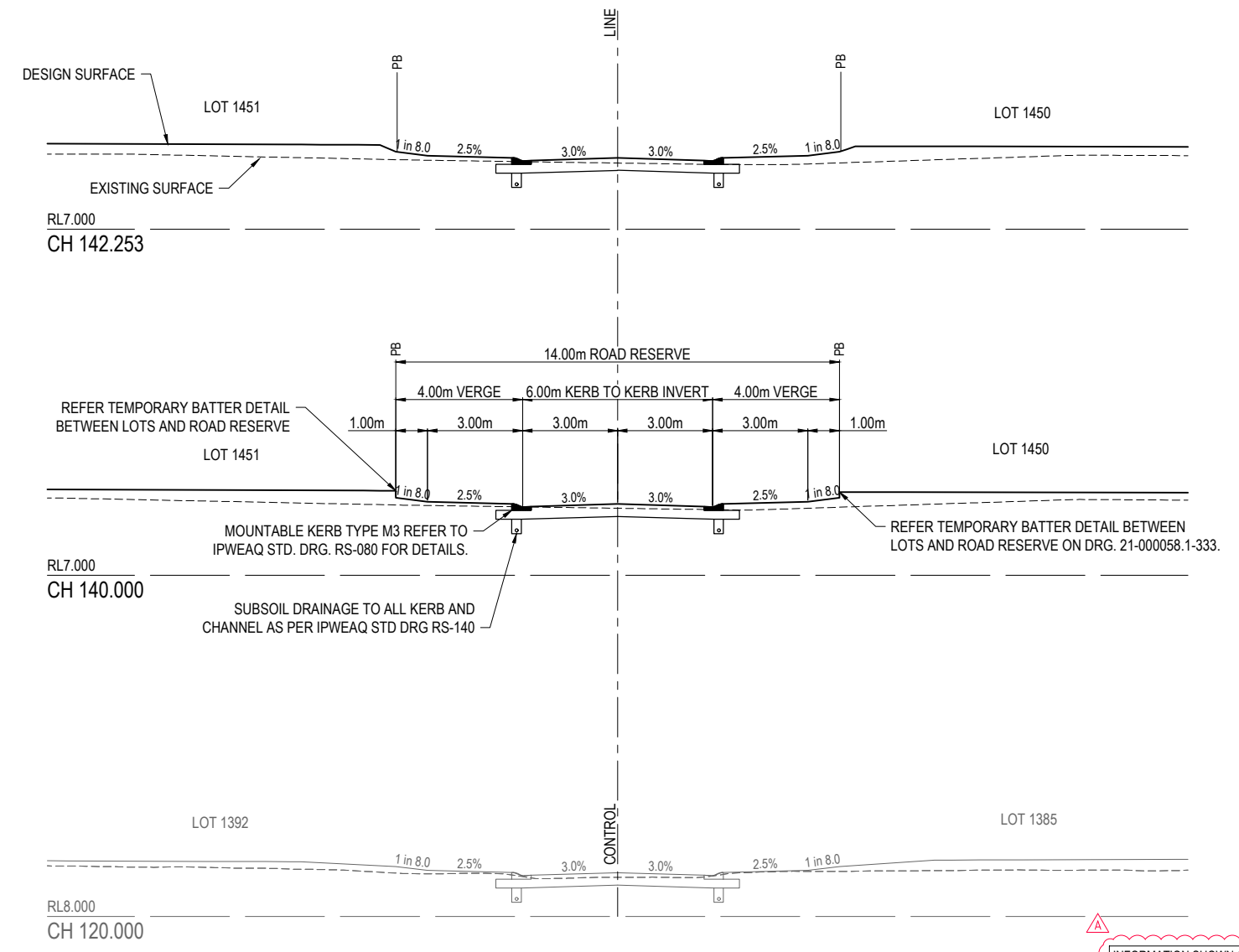
NOTE:
 REFER TO PAVEMENT LAYOUT PLAN 21-000058.1-350
 FOR PAVEMENT NOTES, PRELIMINARY PAVEMENT
 DESIGN TABLE AND END OF ROAD TREATMENT DETAILS



DATUM RL -10.0

CUT (-) / FILL	0.150	0.150	0.159	0.185	0.222	0.224	0.226	0.304	0.303	0.459
LHS LIP LEVEL	9.306	9.213	9.196	9.169	9.167	9.167	9.167	9.167	9.167	9.167
RHS LIP LEVEL	9.306	9.213	9.196	9.169	9.167	9.167	9.167	9.167	9.167	9.167
DESIGN SURFACE	9.388	9.348	9.300	9.251	9.250	9.249	9.249	9.268	9.293	9.405
EXISTING SURFACE	9.238	9.188	9.115	9.029	9.026	9.022	8.963	8.990	8.946	8.946
CHAINAGES	124.000	124.000	129.829	139.829	140.000	142.253	149.829	154.888	158.618	158.618
HORIZONTAL CURVES										

LONGITUDINAL SECTION - ROAD 34 LONGMAN STREET
 HORIZ SCALE: 1000
 VERTICAL SCALE: 100



REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

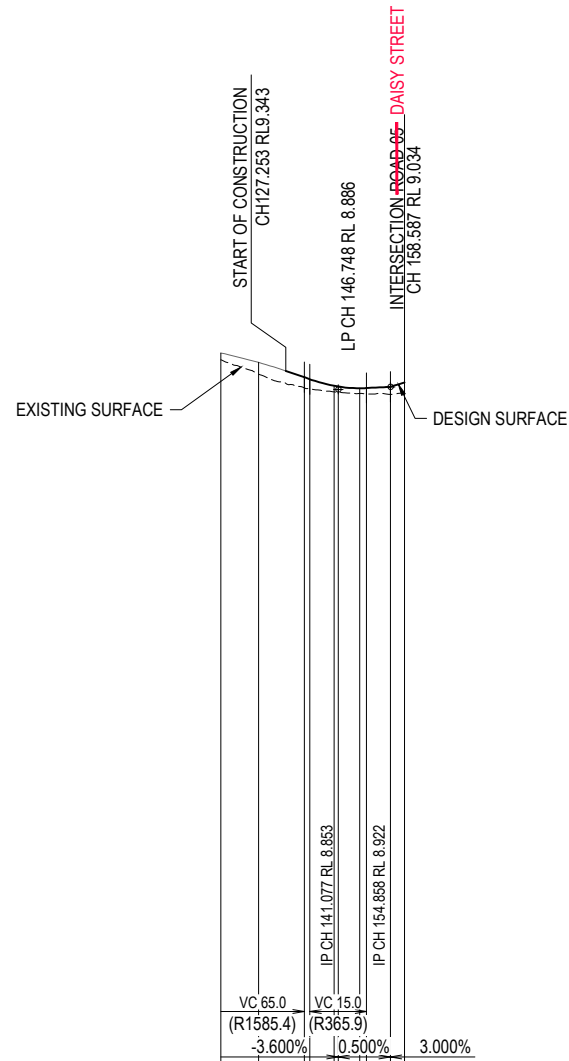
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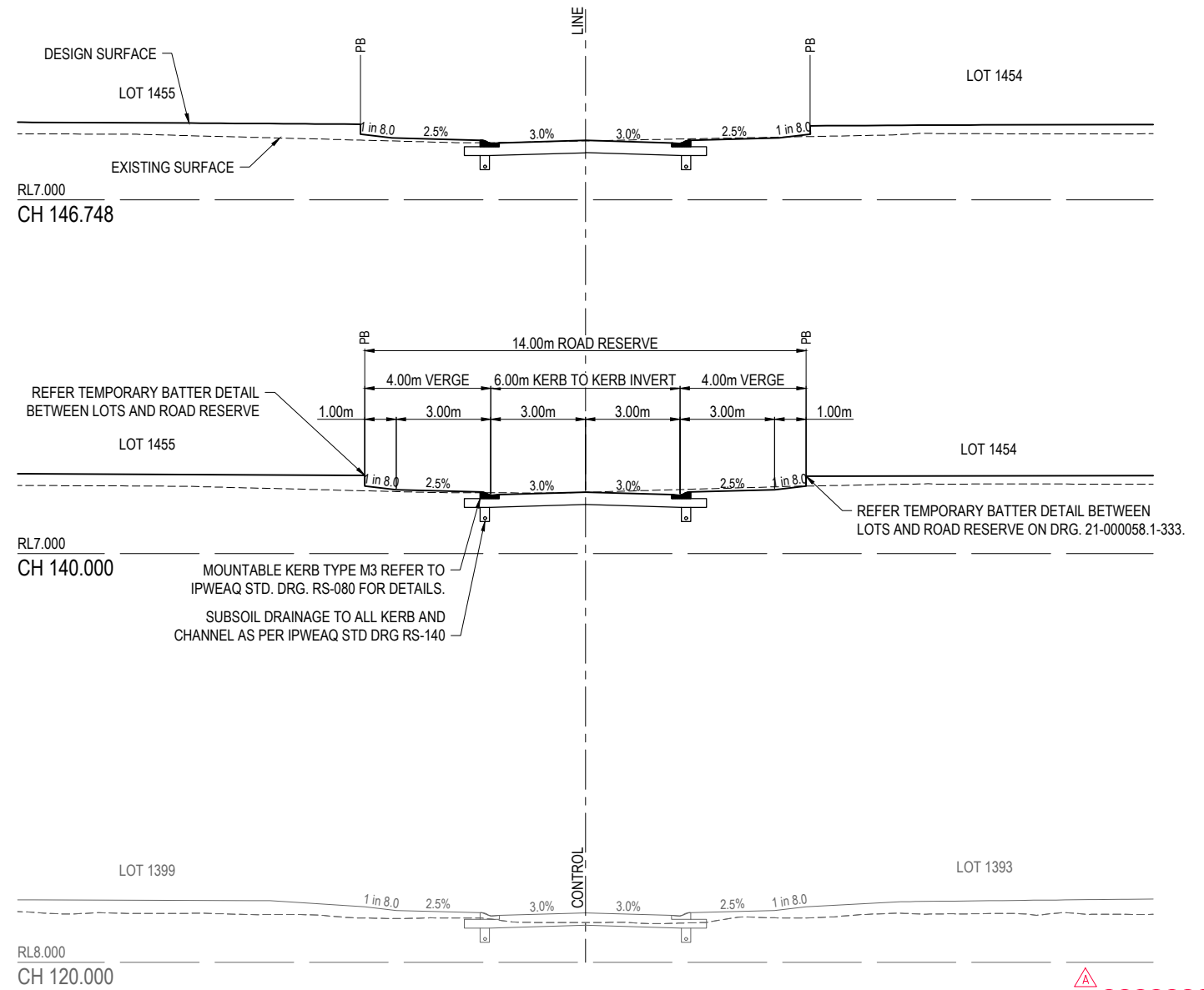
NOTE:
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 FOR PAVEMENT NOTES, PRELIMINARY PAVEMENT
 DESIGN TABLE AND END OF ROAD TREATMENT DETAILS



DATUM RL -10.0

CUT (-) / FILL	0+110.000	0+120.000	0+132.104	0+133.577	0+140.000	0+141.077	0+146.748	0+148.577	0+154.858	0+158.587
LHS LIP LEVEL	9.736	9.484	9.094	9.041	9.041	8.867	8.848	8.804	8.891	9.034
RHS LIP LEVEL	9.736	9.484	9.094	9.041	9.041	8.867	8.848	8.804	8.891	9.034
DESIGN SURFACE	9.618	9.566	9.176	9.123	8.948	8.930	8.886	8.891	8.922	9.034
EXISTING SURFACE	9.636	9.254	8.895	8.873	8.793	8.773	8.748	8.730	8.723	8.764
CHAINAGES	110.000	120.000	132.104	133.577	140.000	141.077	146.748	148.577	154.858	158.587
HORIZONTAL CURVES										

LONGITUDINAL SECTION - ROAD 35 CARPET STREET
 HORIZ SCALE: 1000
 VERTICAL SCALE: 100



REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

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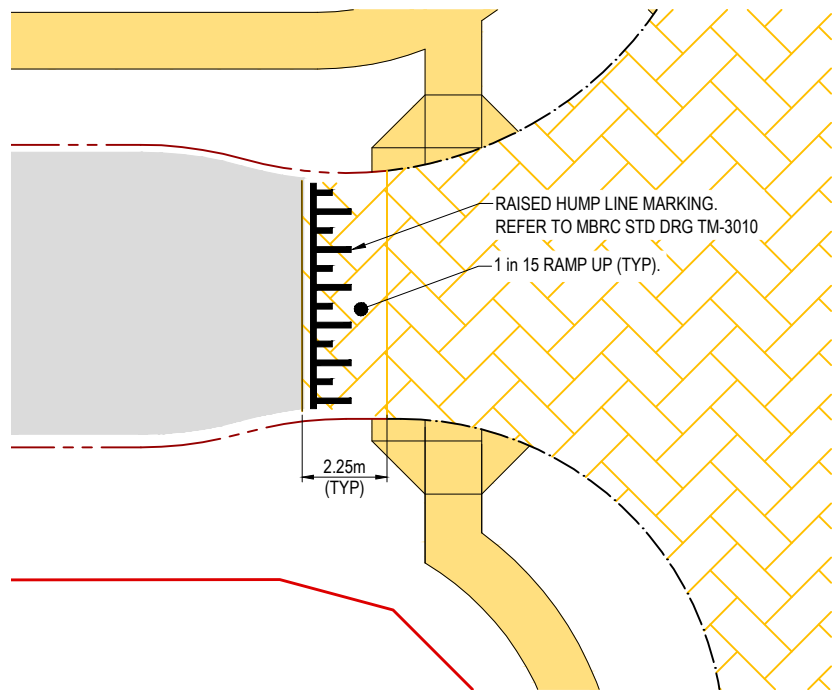
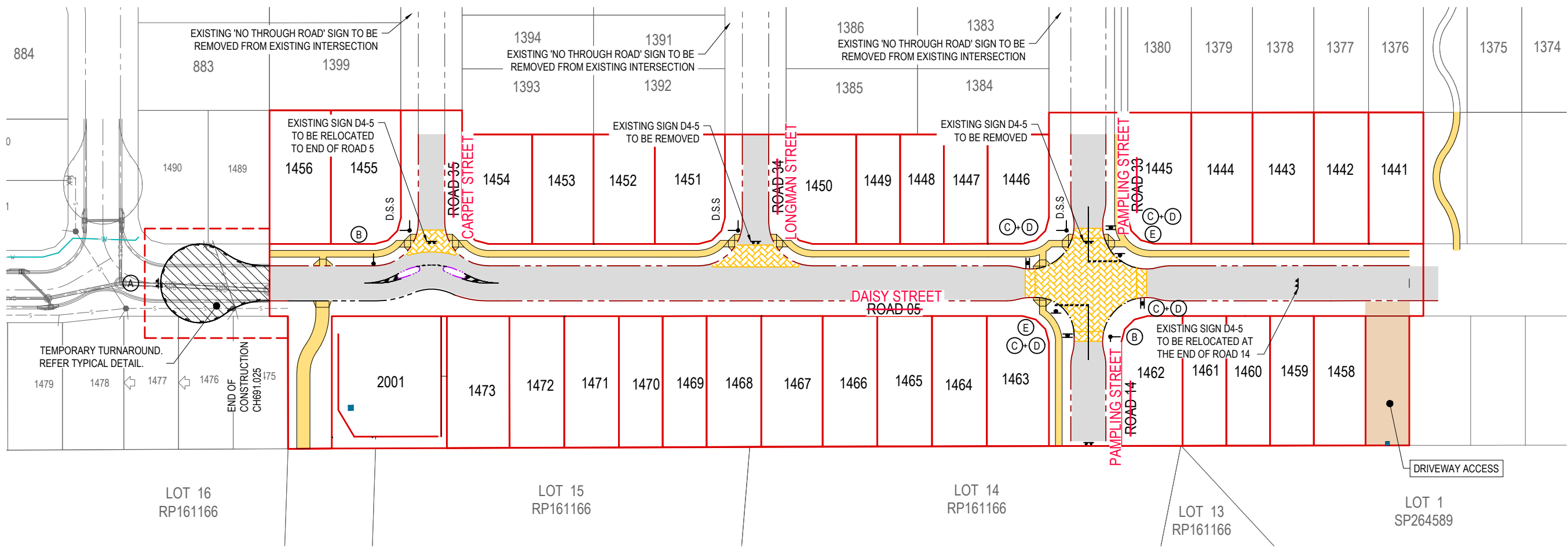
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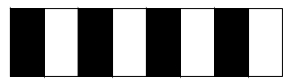
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1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED	1:100 1:200	PEET CABOOLTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 20	CARPET STREET ROAD 35 LONGITUDINAL AND CROSS SECTIONS	21-000058.1	336	A
2	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS									
A	19.01.24	AS CONSTRUCTED	JM	CH									
					DESIGN CHECK	APPROVED MARK WYER RPEQ 16191							
FOR & ON BEHALF OF EGIS CONSULTING PTY LTD													

M.B.R.C. REF No. DA/2021/0066

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RAISED HUMP THRESHOLD TREATMENT
 SCALE 1:100 (A1)
 SCALE 1:200 (A3)



D4-5
 (A)

G5-10
 (B)

W5-10
 (C)

20 km/h
 W8-2(20)
 (D)

GIVE WAY
 R1-2B
 (E)

- NOTES:**
1. ALL LINEMARKING AND SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 2. ALL EXISTING SIGNS AND LINEMARKING TO REMAIN U.N.O.
 3. NOSES OF ALL ISLANDS SHALL BE PAINTED WITH WHITE RETROREFLECTIVE PAINT

- SIGN LEGEND**
- DOUBLE STREET NAME SIGN
 - ROAD SIGN WITH SIGN IDENTIFIER

PAVEMENT MARKING LEGEND

PAVEMENT MARKINGS	LENGTH(m)	GAP(m)	WIDTH(mm)
EDGE LINE	-	-	100
GIVE WAY LINE	0.600	0.600	300
TURN LINE	0.600	0.600	100

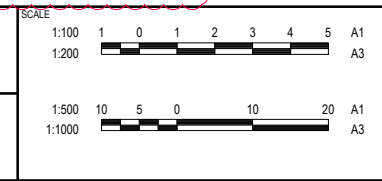
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A	29.01.24	AS CONSTRUCTED	JM	CH		

APPROVED
MARK WYER
 RPEQ 16191
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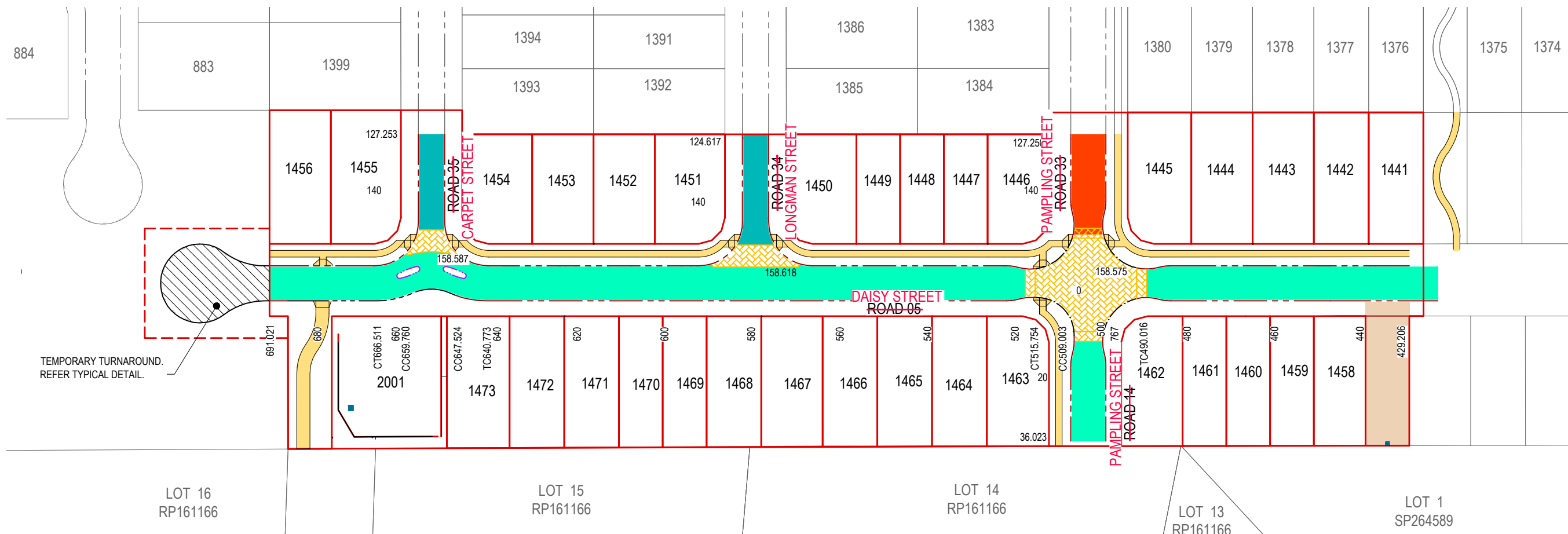
**RIVERBANK ESTATE
 STAGE 20**

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SIGNS AND LINEMARKING LAYOUT PLAN

PROJECT No.	DRAWING No.	REVISION
21-000058.1	340	A



TEMPORARY TURNAROUND.
REFER TYPICAL DETAIL.

PRELIMINARY PAVEMENT DESIGN

ROAD	COLOURS	SUBGRADE CBR	TRAFFIC ESA'S	ROAD CLASS	AC SURFACING (mm)	BASE (mm)	SUB-BASE (mm)	BLANKET (mm)	TOTAL BOX (mm)
ROAD14 CH0.000-CH37.057		3*	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	100	100	215	445
ROAD 05 CH1429.211-CH691.021		3*	8.0 x 10 ⁴	SUPERSEDED	30	100	100	215	445
ROAD 33 CH127.250-CH158.575		3*	2.5 x 10 ⁵	MINOR COLLECTOR	40	130	100	230	500
ROAD 34 CH4124.618-CH158.618		3*	4.0 x 10 ⁴	ACCESS RESIDENTIAL	30	100	100	215	445
ROAD 35 CH127.262-CH158.587		3*	4.0 x 10 ⁴	ACCESS RESIDENTIAL	30	100	100	215	445

* ASSUMED SUBGRADE CBR

AS CONSTRUCTED PAVEMENT DESIGN

ROAD	DESIGN CBR	TRAFFIC ESA'S	ROAD CLASS	AC SURFACING (mm)	PRIMER SEAL (mm)	BASE (mm)	SUB-BASE (mm)	LOWER SUB-BASE (mm)	TOTAL BOX (mm)
DAISY STREET CH 429 - CH 640	4	1.2 x 10 ⁵	ACCESS RESIDENTIAL	30	5	100	100	160	395
DAISY STREET CH 640 - CH 660	10	1.2 x 10 ⁵	ACCESS RESIDENTIAL	30	5	100	110	-	245
DAISY STREET CH 660 - CH 691	7	1.2 x 10 ⁵	ACCESS RESIDENTIAL	30	5	100	150	-	285
PAMPLING STREET CH 0 - CH 20	4	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	100	130	365
PAMPLING STREET CH 20 - CH 36	7	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	140	-	275
PAMPLING STREET CH 127 - CH 145	4	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	100	130	365
PAMPLING STREET CH 145 - CH 158	4	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	100	160	395
LONGMAN STREET CH 124 - CH 145	4	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	100	130	365
LONGMAN STREET CH 145 - CH 158	4	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	100	160	395
CARPET STREET CH 127 - CH 145	10	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	100	-	235
CARPET STREET CH 145 - CH 158	10	8.0 x 10 ⁴	ACCESS RESIDENTIAL	30	5	100	110	-	245

PAVEMENT DESIGN NOTES:

- PRELIMINARY PAVEMENT DESIGNS HAVE BEEN BASED ON THE ASSUMED SUBGRADE. ACTUAL PAVEMENT DESIGNS WILL BE BASED ON TEST RESULTS TAKEN AFTER STRIPPING HAS BEEN COMPLETED.
- PRIMESEAL (10mm THICK) IS TO BE PLACED UNDER ALL ASPHALT SURFACE COURSES
- INCREASE A.C. THICKNESS BY 10mm AS PER ID PSP IN AREAS OF STENCILLED ASPHALT.
- PLACED COMBIGRID 30/30 450mm BELOW FINISHED SURFACE LEVEL AS DIRECTED BY SUPERINTENDENT WITHIN PROPOSED PAVEMENT DESIGN AT TIME OF CONSTRUCTION. COMBIGRID TO EXTEND 500mm BEHIND BACK OF KERB.
- SUB-BASE AND BLANKET MATERIALS TO BE PLACED 500mm BEHIND BACK OF KERB.

LEGEND

- PROPOSED CONCRETE FOOTPATH IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING RS-065
- PROPOSED THRESHOLD TREATMENT

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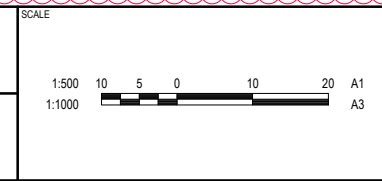
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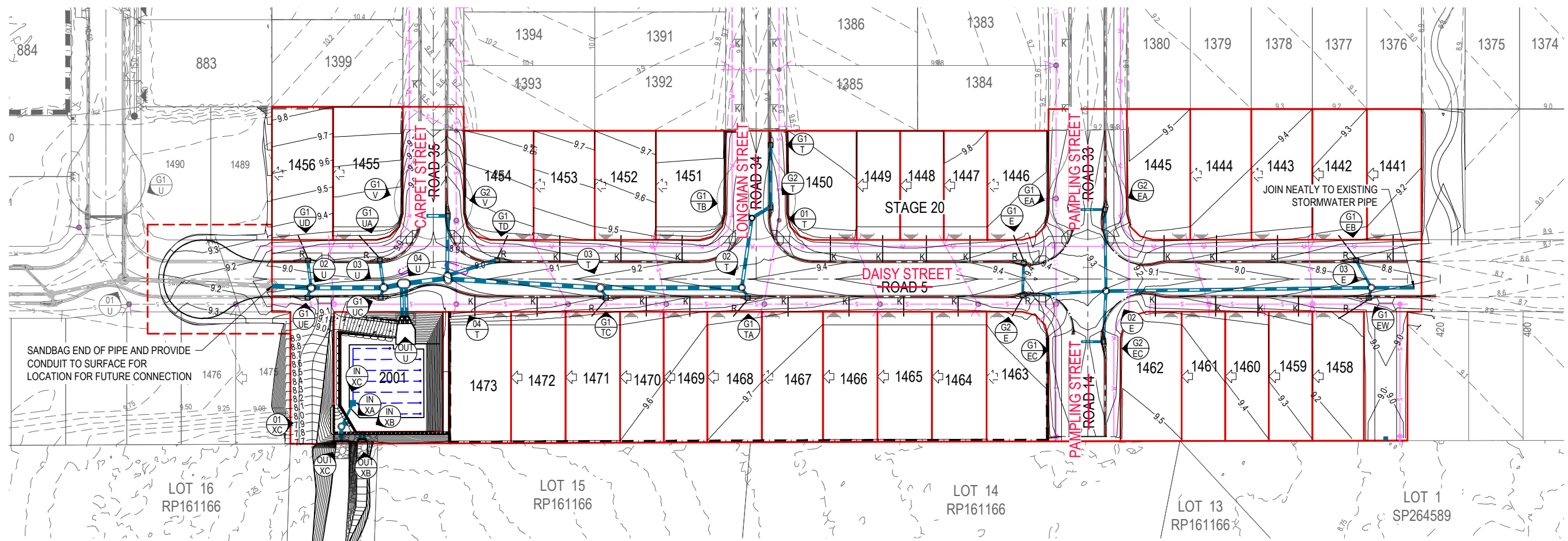
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DESIGN CHECK: APPROVED
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PROJECT
**RIVERBANK ESTATE
STAGE 20**

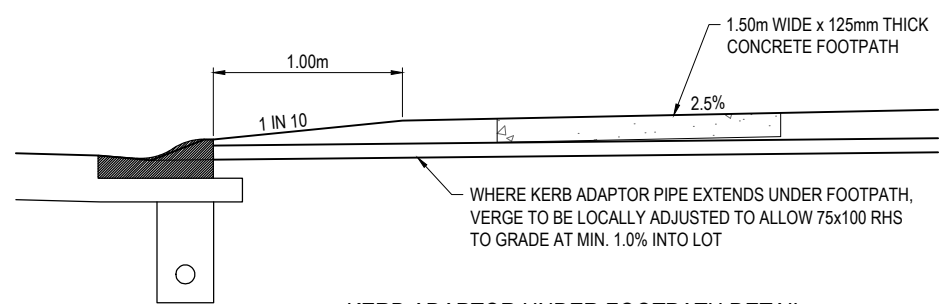
DRAWING TITLE		
PAVEMENT LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
21-000058.1	350	A



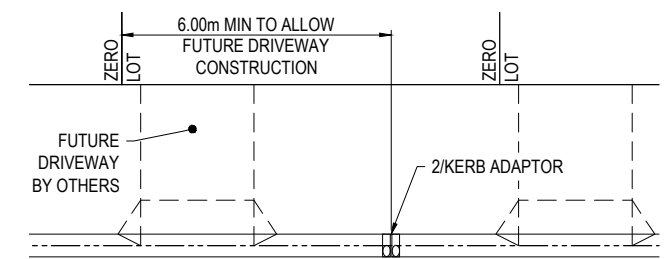
SANDBAG END OF PIPE AND PROVIDE CONDUIT TO SURFACE FOR LOCATION FOR FUTURE CONNECTION

NOTE:
ACCESS AND SERVICES TO EXISTING PROPERTIES TO REMAIN AT ALL TIMES.

NOTE:
FOR ROADWORKS DRAINAGE NOTES AND DETAILS REFER TO DRAWING 21-000058.1-440



KERB ADAPTOR UNDER FOOTPATH DETAIL
SCALE 1:20(A1)
SCALE 1:40(A3)



TYPICAL KERB ADAPTOR ALIGNMENT
SCALE 1:100 (A1)
SCALE 1:200 (A3)

- LEGEND**
- PROPOSED STORMWATER DRAINAGE
 - FUTURE STORMWATER DRAINAGE
 - EXISTING STORMWATER DRAINAGE
 - PROPOSED GULLY PIT
 - ROOFWATER DRAIN - OUTLET TO GULLY PIT
 - KERB ADAPTOR - REFER NOTES
 - INDICATIVE DRIVEWAY LOCATIONS
 - PROPOSED SLEEPER RETAINING WALL
 - PROPOSED BLOCK RETAINING WALL
 - PROPOSED 'B' GRADE SANDSTONE ROCK WALLS
 - PROPOSED MOUNTABLE KERB & CHANNEL TYPE 'M3'
 - PROPOSED SEMI-MOUNTABLE KERB TYPE 'SM4'
 - PROPOSED EDGE OF BITUMEN
 - PROPOSED SEWERAGE RETICULATION
 - PROPOSED WATER RETICULATION
 - EXISTING WATER RETICULATION
 - EXISTING SEWERAGE RETICULATION
 - EXISTING SURFACE CONTOUR (0.2m INTERVALS)
 - DESIGN SURFACE CONTOUR (0.1m INTERVALS)
 - PROPOSED VEHICLE TRACK ACCESS TO BIO BASIN
 - PROPOSED GROUTED SCOUR PROTECTION REFER DRG 21-000058.1-440 FOR DETAILS.

CAUTION !!
UNDERGROUND TELECOMMS CABLES
UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT SUPPLIER FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

CAUTION !!
UNDERGROUND ELECTRICAL CABLES
UNDERGROUND ELECTRICITY CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

NOTE:
NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO.

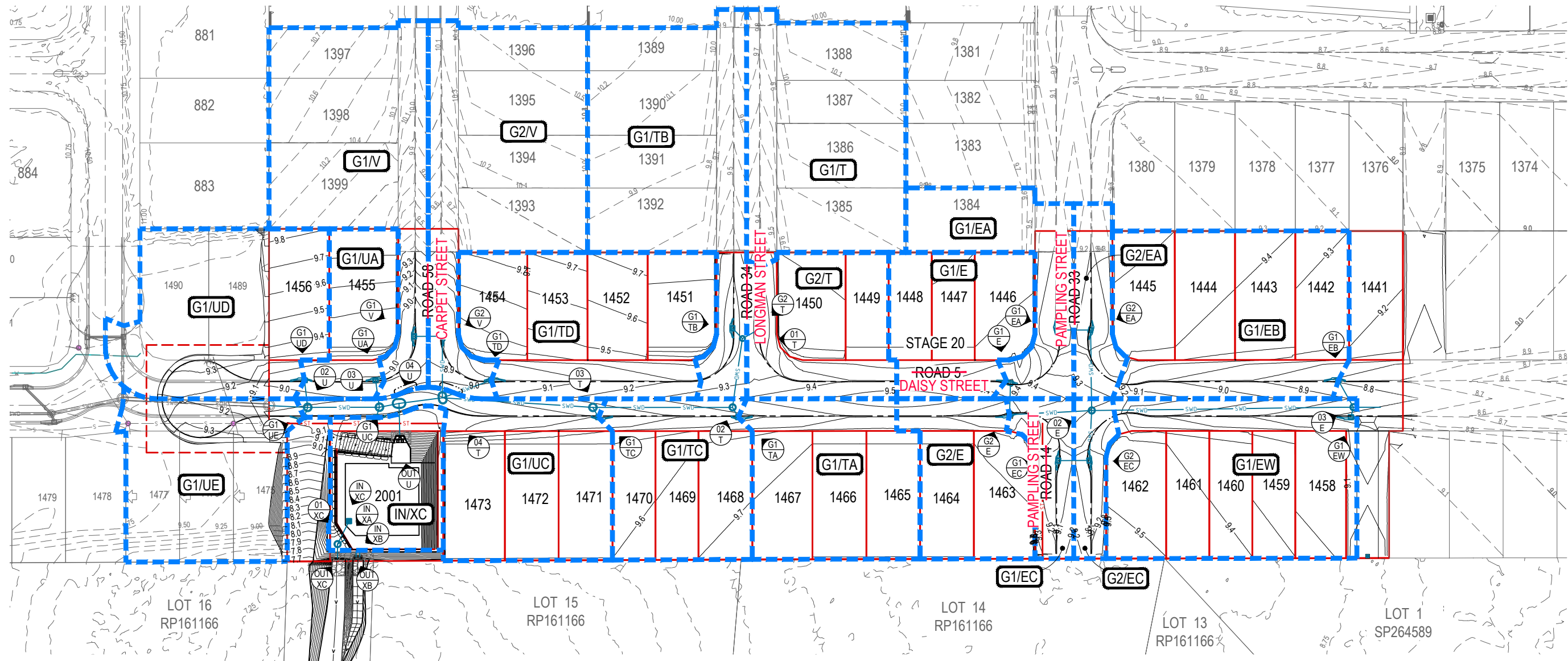
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MARK WYER RPEQ 16191

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<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>ISSUE DETAILS</th> <th>DRAWN</th> <th>DESIGN</th> <th>DRAWN CHECK</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.05.22</td> <td>ISSUED FOR APPROVAL</td> <td>CHC</td> <td>CR</td> <td></td> <td rowspan="6">AS CONSTRUCTED</td> </tr> <tr> <td>2</td> <td>09.09.22</td> <td>DRAINAGE LAYOUT AND BASIN SHAPE AMENDED</td> <td>CH</td> <td>CH</td> <td></td> </tr> <tr> <td>3</td> <td>20.01.23</td> <td>FINAL SURFACE AND STORMWATER LAYOUT AMENDED</td> <td>CH</td> <td>HS</td> <td></td> </tr> <tr> <td>4</td> <td>31.01.23</td> <td>BLOCK RETAINING WALL RELOCATED. CONCRETE SLEEPER WALL ADDED</td> <td>EGC</td> <td>CH</td> <td>DESIGN CHECK</td> </tr> <tr> <td>5</td> <td>23.03.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CH</td> <td>HS</td> <td></td> </tr> <tr> <td>6</td> <td>16.05.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CH</td> <td>HS</td> <td></td> </tr> <tr> <td>A</td> <td>19.01.24</td> <td>AS CONSTRUCTED</td> <td>JM</td> <td>CH</td> <td></td> <td></td> </tr> </tbody> </table>		REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED	2	09.09.22	DRAINAGE LAYOUT AND BASIN SHAPE AMENDED	CH	CH		3	20.01.23	FINAL SURFACE AND STORMWATER LAYOUT AMENDED	CH	HS		4	31.01.23	BLOCK RETAINING WALL RELOCATED. CONCRETE SLEEPER WALL ADDED	EGC	CH	DESIGN CHECK	5	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		6	16.05.23	ISSUED FOR CONSTRUCTION	CH	HS		A	19.01.24	AS CONSTRUCTED	JM	CH			<p>FOR & ON BEHALF OF EGIS CONSULTING PTY LTD</p>	<p>SCALE</p> <p>1:500 10 5 0 10 20 A1 1:1000</p>	<p>CLIENT</p> <p>PEET CABOOLTURE SYNDICATE LTD</p>	<p>PROJECT</p> <p>egis © 2023 Egis Consulting Pty Ltd www.egis-group.com</p>	<p>PROJECT</p> <p>RIVERBANK ESTATE STAGE 20</p>	<p>DRAWING TITLE</p> <p>STORMWATER DRAINAGE LAYOUT PLAN</p>	<p>M.B.R.C. REF No. DA/2021/0066</p>	<p>DISCLAIMER</p> <p>ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.</p>	<p>PROJECT No.</p> <p>21-000058.1</p>	<p>DRAWING No.</p> <p>400</p>	<p>REVISION</p> <p>A</p>
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS																																																									
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A	19.01.24	AS CONSTRUCTED	JM	CH																																																											



CATCHMENT TABLE

CATCHMENT NAME	CATCHMENT AREA (Ha)
G1/EC	0.039
G1/EB	0.210
G2/EC	0.030
G1/EA	0.094
G2/EA	0.043
G1/EW	0.214
G1/E	0.106
G2/E	0.098
G1/T	0.201
G2/T	0.112
G1/TA	0.143
G1/TB	0.225
G1/TC	0.121
G1/TD	0.191
G1/UC	0.161
G1/UA	0.065
G1/UD	0.179
G1/V	0.205
G2/V	0.225
G1/UE	0.146
IN/XC	0.086

LEGEND

- G1/AA CATCHMENT NAME
- PROPOSED CATCHMENT BOUNDARY
- PROPOSED STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- EXISTING SURFACE CONTOUR (0.5m INTERVALS)
- DESIGN SURFACE CONTOUR (0.1m INTERVALS)

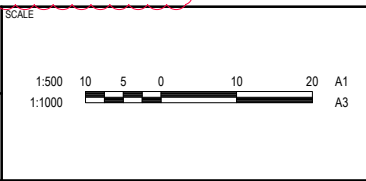
INFORMATION SHOWN ON THIS DRAWING INDICATES DESIGN ONLY. PLEASE REFER TO AS CONSTRUCTED PREPARED BY WOLTER CONSULTING GROUP PTY LTD FOR FINAL AS CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: *Mark Wyrer* DATE: 13-02-2024
 MARK WYER RPEQ 16191

* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		
2	09.09.22	BASIN SHAPE AMENDED	CH	CH		
3	20.01.23	FINAL SURFACE AND STORMWATER LAYOUT AMENDED	CH	HS		
4	31.01.23	BLOCK RETAINING WALL RELOCATED. CONCRETE SLEEPER WALL ADDED	EGC	CH	DESIGN CHECK	
5	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
6	16.05.23	ISSUED FOR CONSTRUCTION	CH	HS		
A	19.01.24	AS CONSTRUCTED	JM	CH		

AS CONSTRUCTED
 APPROVED: MARK WYER RPEQ 16191
 FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



PROJECT: RIVERBANK ESTATE STAGE 20
 DRAWING TITLE: STORMWATER DRAINAGE CATCHMENT PLAN
 PROJECT No: 21-000058.1
 DRAWING No: 410
 REVISION: A

M.B.R.C. REF No. DA/2021/0066

DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

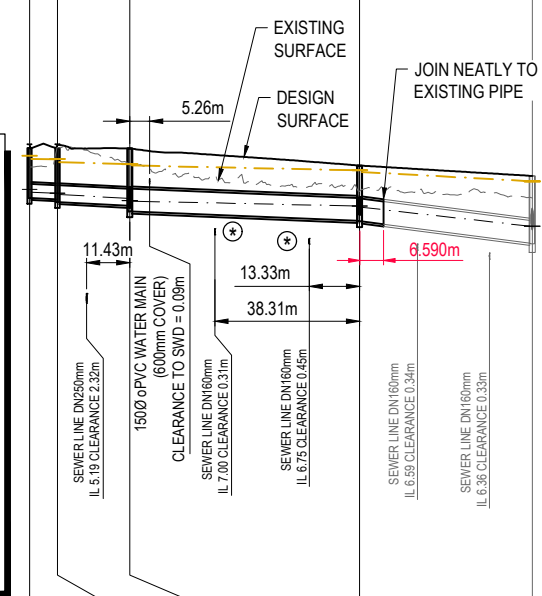
STRUCTURE NAME	G1/E	G2/E	02/E	03/E	04/E
STRUCTURE DESCRIPTION	GULLY PIT L.I.L.: 2.4m Linel, MK&C	GULLY PIT L.I.L.: 2.4m Linel, MK&C	STD IPWEAQ MANHOLE 1200mm DIA	STD IPWEAQ MANHOLE 1200mm DIA	EXISTING STD IPWEAQ MANHOLE 1200mm DIA

LEGEND

- DESIGN SURFACE
- - - EXISTING SURFACE
- - - 10% AEP HYDRAULIC GRADE LINE
- - - 1% AEP HYDRAULIC GRADE LINE

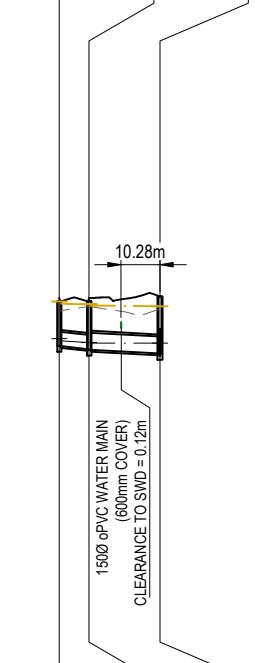
NOTES:

- NOTWITHSTANDING THE STORMWATER STRUCTURE LEVELS SHOWN, THE COVER OR GRATE LEVEL SHALL SUIT THE FINISHED SURFACE PROFILE.
- THE PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS 3725-1989. CRACKED PIPES WILL NOT BE ACCEPTED. REFER CONSTRUCTION EQUIPMENT LOADING TABLE ON DWG 21-000058.1-440
- REFER TO DWG 21-000058.1-450 FOR STRUCTURE SETOUT.



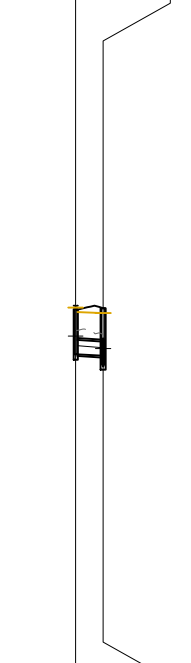
PIPE SIZE (mm)	375	450	600	600
PIPE CLASS (RCP)	3	3	3	3
PIPE GRADE (%)	1.06%	0.50%	0.40%	1.09%
PIPE SLOPE (1 in X)	1.06	0.50	0.40	1.09
FULL PIPE VELOCITY (m/s)	0.40	0.53	0.59	1.16
PART FULL VELOCITY (m/s)	1.03	1.21	1.32	2.40
DATUM RL	-8.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.208	8.130	8.099	8.105
PIPE FLOW 10% AEP (Cumecs)	0.044	0.084	0.166	0.327
PIPE FLOW 1% AEP (Cumecs)	0.072	0.140	0.280	0.450
DEPTH TO INVERT	1.300	1.380	1.410	1.570
INVERT LEVEL OF DRAIN	7.906	7.880	7.770	7.530
DESIGN SURFACE LEVEL	9.260	9.270	9.340	9.340
SETOUT COORDINATES	E 5825.806 N 2894.621	E 5824.442 N 2887.383	E 5843.454 N 2885.317	E 5903.656 N 2876.536
RUNNING CHAINAGE	0.000	6.740	18.150	45.638

STRUCTURE NAME	G1/EA	G2/EA	02/E
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.I.L.: 2.4m Linel, MK&C	GULLY PIT (SAG) L.I.L.: 2.4m Linel, MK&C	STD IPWEAQ MANHOLE 1200mm DIA



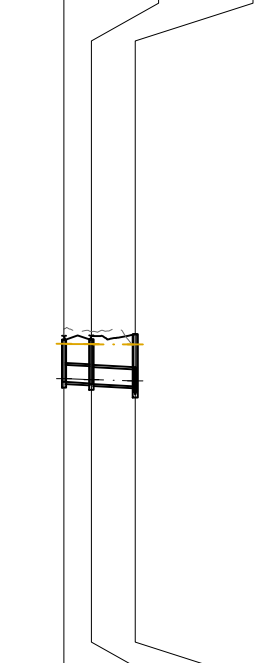
PIPE SIZE (mm)	375	450
PIPE CLASS (RCP)	3	3
PIPE GRADE (%)	0.41%	0.50%
PIPE SLOPE (1 in X)	0.41	0.50
FULL PIPE VELOCITY (m/s)	0.35	0.35
PART FULL VELOCITY (m/s)	1.27	1.08
DATUM RL	-6.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.031	7.972
PIPE FLOW 10% AEP (Cumecs)	0.038	0.055
PIPE FLOW 1% AEP (Cumecs)	0.062	0.095
DEPTH TO INVERT	1.210	1.260
INVERT LEVEL OF DRAIN	7.770	7.710
DESIGN SURFACE LEVEL	8.980	8.980
SETOUT COORDINATES	E 5838.384 N 2705.072	E 5846.151 N 2703.842
RUNNING CHAINAGE	0.000	7.060

STRUCTURE NAME	G1/EB	03/E
STRUCTURE DESCRIPTION	GULLY PIT L.I.L.: 2.4m Linel, MK&C	STD IPWEAQ MANHOLE 1200mm DIA



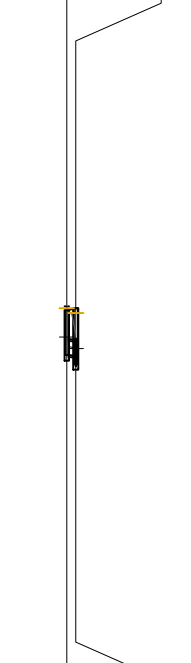
PIPE SIZE (mm)	375
PIPE CLASS (RCP)	3
PIPE GRADE (%)	1.61%
PIPE SLOPE (1 in X)	1.61
FULL PIPE VELOCITY (m/s)	0.75
PART FULL VELOCITY (m/s)	1.20
DATUM RL	-6.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.094
PIPE FLOW 10% AEP (Cumecs)	0.083
PIPE FLOW 1% AEP (Cumecs)	0.091
DEPTH TO INVERT	1.110
INVERT LEVEL OF DRAIN	7.620
DESIGN SURFACE LEVEL	8.730
SETOUT COORDINATES	E 5901.185 N 2893.305
RUNNING CHAINAGE	0.000

STRUCTURE NAME	G1/EC	G2/EC	02/E
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.I.L.: 2.4m Linel, MK&C	GULLY PIT (SAG) L.I.L.: 2.4m Linel, MK&C	STD IPWEAQ MANHOLE 1200mm DIA



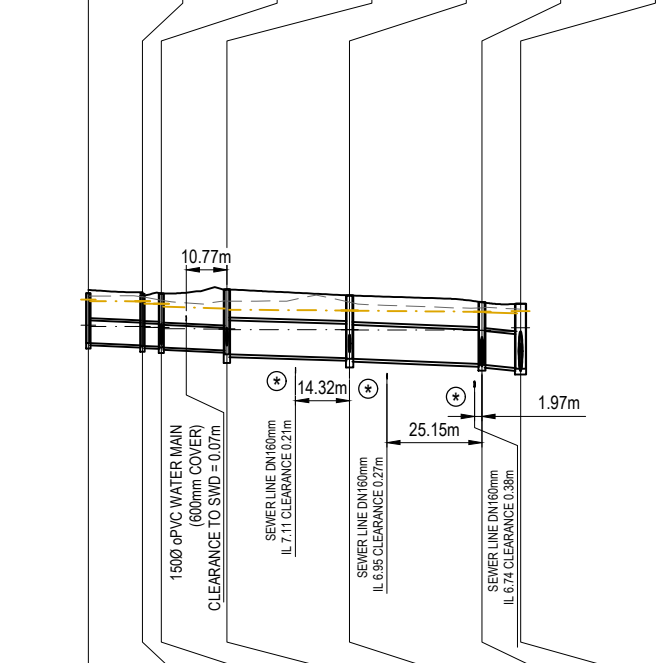
PIPE SIZE (mm)	450	450
PIPE CLASS (RCP)	3	3
PIPE GRADE (%)	0.71%	0.66%
PIPE SLOPE (1 in X)	0.71	0.66
FULL PIPE VELOCITY (m/s)	0.10	0.18
PART FULL VELOCITY (m/s)	0.76	0.90
DATUM RL	-5.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.974	7.969
PIPE FLOW 10% AEP (Cumecs)	0.016	0.028
PIPE FLOW 1% AEP (Cumecs)	0.027	0.048
DEPTH TO INVERT	1.110	1.190
INVERT LEVEL OF DRAIN	7.900	7.830
DESIGN SURFACE LEVEL	9.010	9.010
SETOUT COORDINATES	E 5833.951 N 2875.070	E 5841.086 N 2873.952
RUNNING CHAINAGE	0.000	6.760

STRUCTURE NAME	G1/EW	03/E
STRUCTURE DESCRIPTION	GULLY PIT L.I.L.: 2.4m Linel, MK&C	STD IPWEAQ MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS (RCP)	3
PIPE GRADE (%)	2.79%
PIPE SLOPE (1 in X)	2.79
FULL PIPE VELOCITY (m/s)	0.76
PART FULL VELOCITY (m/s)	1.21
DATUM RL	-6.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.074
PIPE FLOW 10% AEP (Cumecs)	0.084
PIPE FLOW 1% AEP (Cumecs)	0.090
DEPTH TO INVERT	1.120
INVERT LEVEL OF DRAIN	7.590
DESIGN SURFACE LEVEL	8.710
SETOUT COORDINATES	E 5902.708 N 2874.360
RUNNING CHAINAGE	0.000

STRUCTURE NAME	G1/T	G2/T	01/T	02/T	03/T	04/T	04/U
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.I.L.: 2.4m Linel, MK&C	GULLY PIT (SAG) L.I.L.: 2.4m Linel, MK&C	MANHOLE 1050mm DIA	STD IPWEAQ MANHOLE 1200mm DIA	STD IPWEAQ MANHOLE 1500mm DIA	Ø1500x900 EXTENDED MANHOLE REFER MANHOLE DETAILS	Ø1800x900 EXTENDED MANHOLE REFER MANHOLE DETAILS



PIPE SIZE (mm)	600	600	600	900	900	900	
PIPE CLASS (RCP)	3	3	3	3	3	4	
PIPE GRADE (%)	0.61%	0.94%	0.74%	0.34%	0.41%	0.98%	
PIPE SLOPE (1 in X)	0.61	0.94	0.74	0.34	0.41	0.98	
FULL PIPE VELOCITY (m/s)	0.30	0.46	0.79	0.44	0.51	0.89	
PART FULL VELOCITY (m/s)	1.10	1.24	1.51	1.34	1.55	2.35	
DATUM RL	-6.0						
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.382	8.350	8.349	8.328	8.293	8.279	
PIPE FLOW 10% AEP (Cumecs)	0.084	0.130	0.223	0.279	0.323	0.567	
PIPE FLOW 1% AEP (Cumecs)	0.119	0.221	0.338	0.426	0.503	0.762	
DEPTH TO INVERT	1.250	1.280	1.430	1.620	1.670	1.710	
INVERT LEVEL OF DRAIN	7.830	7.850	7.830	7.700	7.630	7.250	
DESIGN SURFACE LEVEL	9.110	9.110	9.230	9.320	9.150	8.960	
SETOUT COORDINATES	E 5772.780 N 2730.449	E 5770.532 N 2716.270	E 5765.913 N 2714.584	E 5761.136 N 2699.141	E 5729.080 N 2704.225	E 5684.922 N 2711.901	E 5684.734 N 2712.193
RUNNING CHAINAGE	0.000	13.630	4.000	14.990	30.890	33.540	

⊛ SEWER BRIDGING:
REFER TO DRAWING 21-000078.1-511
FOR SEWER BRIDGING DETAIL.

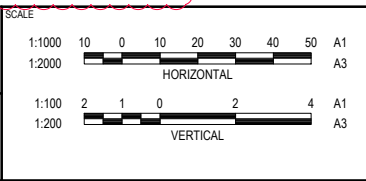
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AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
13-02-2024
SIGNED: Mark WYER DATE: _____
MARK WYER RPEQ 16191

* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		
2	09.09.22	SWD LONG SECTION LINE AMENDED	CH	CH		
3	20.01.23	STORMWATER LINES E, EA, EB, EC, EW AND T AMENDED	CH	HS		
4	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS	DESIGN CHECK	
5	23.05.23	LINE E AMENDED	LH	CH		
A	19.01.24	AS CONSTRUCTED	JM	CH		

AS CONSTRUCTED
APPROVED: MARK WYER
RPEQ 16191
FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



**RIVERBANK ESTATE
STAGE 20**

DISCLAIMER
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M.B.R.C. REF No. DA/2021/0066

PROJECT No.	DRAWING No.	REVISION
21-000058.1	420	A

STRUCTURE NAME	G1/TA	02/T
STRUCTURE DESCRIPTION	GULLY PIT L.I.L.: 2.4m Limef, MK&C	STD IPWEAQ MANHOLE 1200mm DIA

LEGEND

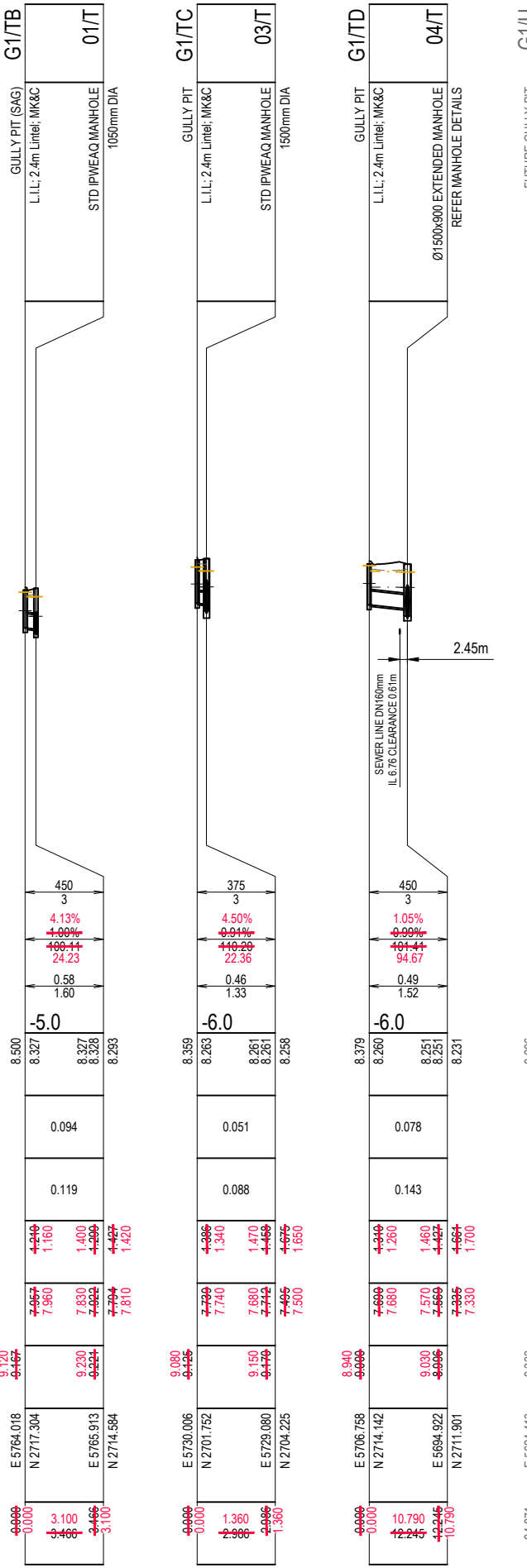
- DESIGN SURFACE
- - - EXISTING SURFACE
- - - 10% AEP HYDRAULIC GRADE LINE
- - - 1% AEP HYDRAULIC GRADE LINE

NOTES:

- NOTWITHSTANDING THE STORMWATER STRUCTURE LEVELS SHOWN, THE COVER OR GRATE LEVEL SHALL SUIT THE FINISHED SURFACE PROFILE.
- THE PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS 3725-1989. CRACKED PIPES WILL NOT BE ACCEPTED. REFER CONSTRUCTION EQUIPMENT LOADING TABLE ON DWG 21-000058.1-440
- REFER TO DWG 21-000058.1-450 FOR STRUCTURE SETOUT.

PIPE SIZE (mm)	375	450	375	450	600	900	900	900	(2x)600	450	450	600x300 BC
PIPE CLASS (RCP)	3	3	3	3	3	4	4	4	4	3	3	200.00
PIPE GRADE (%)	4.45%	4.13%	4.50%	1.05%	2.31%	0.18%	0.36%	0.42%	0.41%	1.77%	2.76%	1.07%
PIPE SLOPE (1 in X)	1.00%	1.00%	1.00%	0.99%	43.24	0.30%	0.30%	0.30%	0.40%	4.75%	2.76%	1.00%
FULL PIPE VELOCITY (m/s)	0.54	0.58	0.49	0.24	0.24	0.59	0.78	0.91	2.02	0.17	0.42	0.47
PART FULL VELOCITY (m/s)	1.44	1.60	1.33	1.91	1.91	1.45	1.56	1.62	2.02	1.37	2.11	1.51
DATUM RL	-5.0	-5.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-7.0

LINE	TA	TB	TC	TD	U	UA	UC	UD	XA			
H.G.L. IN PIPE & W.S.E. IN STRUCTURE	8.427 8.282 8.279 8.266	8.500 8.327 8.327 8.293	8.359 8.263 8.261 8.258	8.379 8.260 8.251 8.231	8.296 8.276 8.278 8.271	8.252 8.239 8.238 8.238 8.227	8.329 8.240 8.238 8.238 8.227	8.355 8.263 8.259 8.250	8.360 8.263 8.259 8.250	8.567 8.483 8.483 8.483		
PIPE FLOW 10% AEP (Cumecs)	0.060	0.094	0.051	0.078	0.067	0.373	0.495	0.581	1.144	0.026	0.068	0.075
PIPE FLOW 1% AEP (Cumecs)	0.094	0.119	0.088	0.143	0.203	0.563	0.699	0.910	1.665	0.119	0.088	0.143
DEPTH TO INVERT	1.360 1.290 1.460 1.700	1.360 1.160 1.400 1.420	1.360 1.340 1.470 1.650	1.360 1.260 1.460 1.700	1.438 1.686 1.706 1.706	1.610 1.624 1.634 1.664	1.630 1.664 1.664 1.710 1.730	1.664 1.370 1.330 1.664	1.664 1.370 1.500 1.664	0.000 0.780 0.701 2.505		
INVERT LEVEL OF DRAIN	7.060 7.930 7.860 7.660	7.060 7.960 7.830 7.690	7.060 7.740 7.690 7.590	7.060 7.680 7.570 7.330	7.895 7.503 7.483 7.483	7.260 7.360 7.290 7.260	7.260 7.260 7.260 7.260	7.260 7.260 7.260 7.260	7.260 7.260 7.260 7.260	7.860 7.849 6.045		
DESIGN SURFACE LEVEL	9.220 9.320 9.320	9.120 9.230 9.230	9.080 9.190 9.190	9.030 9.130 9.130	9.333 9.189 9.189	8.970 9.066 9.066	8.960 9.066 9.066	8.950 9.046 9.046	8.900 9.000 9.000	8.550 8.550		
SETOUT COORDINATES	E 5762.105 N 2696.661 E 5761.136 N 2699.141	E 5764.018 N 2717.304 E 5765.913 N 2714.584	E 5730.006 N 2701.752 E 5729.080 N 2704.225	E 5706.758 N 2714.142 E 5694.922 N 2711.901	E 5624.413 N 2740.060 E 5621.796 N 2723.319 E 5663.621 N 2714.608 E 5680.074 N 2712.033 E 5684.734 N 2712.193 E 5683.733 N 2704.627	E 5680.195 N 2718.384 E 5680.074 N 2712.033	E 5679.016 N 2709.853 E 5680.074 N 2712.033	E 5663.904 N 2720.939 E 5663.621 N 2714.608	E 5667.994 N 2683.710 E 5666.812 N 2684.056			
RUNNING CHAINAGE	0.000 0.000 1.710 1.710	0.000 3.100 3.460 3.100	0.000 1.360 2.906 1.360	0.000 10.790 12.245 10.150	-24.871 16.950 -7.921 42.761 34.840 16.053 50.030 2.710 56.456 92.140 6.900 56.40	0.000 5.280 6.353 6.353 5.280	0.000 1.150 6.374 1.150	0.000 5.340 6.344 5.340	0.000 2.210 2.210			



SEWER BRIDGING:
REFER TO DRAWING 21-000078.1-511 FOR SEWER BRIDGING DETAIL.

NOTE:
PIPE HEIGHTS AND SIZES ARE BASED ON ENGENY STORMWATER REPORT (MEMORANDUM) M45000_015 DATE 14 APRIL 2022

INFORMATION SHOWN ON THIS DRAWING INDICATES DESIGN ONLY. PLEASE REFER TO AS CONSTRUCTED PREPARED BY WOLTER CONSULTING GROUP PTY LTD FOR FINAL AS CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF EGIS CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
13-02-2024
SIGNED: Mark Wyer
MARK WYER RPEQ 16191

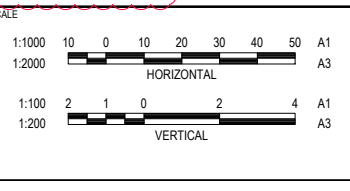
* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		
2	09.09.22	SWD LONG SECTION LINES AMENDED	CH	CH		
3	20.01.23	STORMWATER LINES U, UA, UC, UD AND XA AMENDED	CH	HS		
4	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS		
A	19.01.24	AS CONSTRUCTED	JM	CH		

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



CLIENT: **PEET** CABOOLTURE SYNDICATE LTD

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PROJECT: **RIVERBANK ESTATE STAGE 20**

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M.B.R.C. REF No. DA/2021/0066

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 3

PROJECT No. 21-000058.1
DRAWING No. 421
REVISION A

STRUCTURE NAME	G1/UE	02/U
STRUCTURE DESCRIPTION	GULLY PIT L.I.L.: 2.4m Limei, MK&C	STD IPWEAQ MANHOLE 1500mm DIA

LEGEND

- DESIGN SURFACE
- - - EXISTING SURFACE
- . - . 10% AEP HYDRAULIC GRADE LINE
- . - . 1% AEP HYDRAULIC GRADE LINE

NOTES:

- NOTWITHSTANDING THE STORMWATER STRUCTURE LEVELS SHOWN, THE COVER OR GRATE LEVEL SHALL SUIT THE FINISHED SURFACE PROFILE.
- THE PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY. THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES IF NECESSARY IN ACCORDANCE WITH AS 3725-1989. CRACKED PIPES WILL NOT BE ACCEPTED. REFER CONSTRUCTION EQUIPMENT LOADING TABLE ON DWG 21-000058.1-440
- REFER TO DWG 21-000058.1-450 FOR STRUCTURE SETOUT.

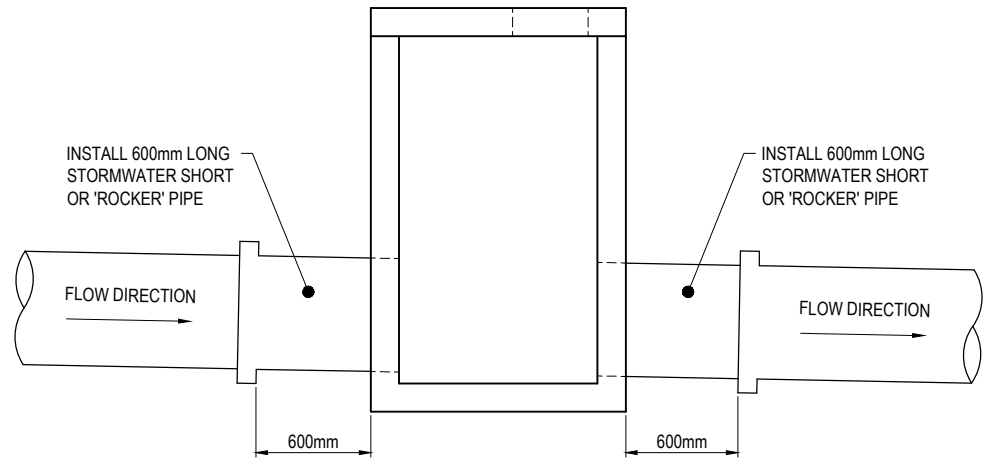
PIPE SIZE (mm)	450
PIPE CLASS (RCP)	3
PIPE GRADE (%)	2.75%
PIPE SLOPE (1 in X)	400.00 36.38
FULL PIPE VELOCITY (m/s)	0.38
PART FULL VELOCITY (m/s)	1.43
DATUM RL	-6.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.323 8.260 8.259 8.259 8.250
PIPE FLOW 10% AEP (Cumeecs)	0.061
PIPE FLOW 1% AEP (Cumeecs)	0.121
DEPTH TO INVERT	1.300 1.340 1.460 1.474 1.650
INVERT LEVEL OF DRAIN	7.540 7.550 7.510 7.516 7.340
DESIGN SURFACE LEVEL	8.890 8.890
SETOUT COORDINATES	E 5682.460 N 2712.466 E 5683.621 N 2714.608
RUNNING CHAINAGE	0.000 0.000 2.401 1.240

STRUCTURE NAME	G1/V	G2/V	04/T
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.I.L.: 2.4m Limei, MK&C	GULLY PIT (SAG) L.I.L.: 2.4m Limei, MK&C	Ø1500x900 EXTENDED MANHOLE REFER MANHOLE DETAILS

STRUCTURE NAME	IN/XA	01/XC
STRUCTURE DESCRIPTION	HEADWALL	STD IPWEAQ MANHOLE 1200mm DIA

STRUCTURE NAME	IN/XB	OUT/XB
STRUCTURE DESCRIPTION	(2) 450W x 300H RETAINING WALL TIE IN	(2) 450W x 300H CONCRETE HEADWALL

STRUCTURE NAME	IN/XC	01/XC	OUT/XC
STRUCTURE DESCRIPTION	FIELD INLET 900x900 BOLT DOWN CLOSED LID	STD IPWEAQ MANHOLE 1200mm DIA	CONCRETE HEADWALL 600mm DIA



TYPICAL PIPE CONNECTION TO STORMWATER STRUCTURE
SCALE N.T.S

NOTE:
ALL STORMWATER WORKS TO BE DONE IN ACCORDANCE WITH COUNCIL STANDARDS.

SEWER BRIDGING:
REFER TO DRAWING 21-000078.1-511 FOR SEWER BRIDGING DETAIL.

NOTE:
PIPE HEIGHTS AND SIZES ARE BASED ON ENGENY STORMWATER REPORT (FLOOD MANAGEMENT STRATEGY) M45000_015 DATE 15 MAY 2023

NOTE:
STORMWATER LINES XA, XB, AND XC ARE PART OF THE PROPOSED BIO-BASIN WORKS TO BE ISSUED FOR APPROVAL.

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13-02-2024
SIGNED: *Mark Wyer* DATE: _____
MARK WYER RPEQ 16191

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2	13.05.22	ISSUED FOR APPROVAL	CR	CR		AS CONSTRUCTED APPROVED MARK WYER RPEQ 16191 FOR & ON BEHALF OF EGIS CONSULTING PTY LTD
3	09.09.22	SWD LONG SECTION LINES AMENDED	CH	CH		
4	20.01.23	STORMWATER LINES UE, V, XA, XB AND XC AMENDED	CH	HS		
5	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS	DESIGN CHECK	
6	16.05.23	LINES XA, XB AND XC ISSUED FOR APPROVAL	CH	GM		
7	22.09.23	NOTE AMENDED	CH	GM		
8	11.03.24	STRUCTURE IN/XC AMENDED	TM	CG		
A	19.01.24	AS CONSTRUCTED	JM	CH		

SCALE	1:1000 1:2000	10 0 10 20 30 40 50 A1 HORIZONTAL
SCALE	1:100 1:200	2 1 0 2 4 A1 VERTICAL

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PROJECT

RIVERBANK ESTATE STAGE 20

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DRAWING TITLE

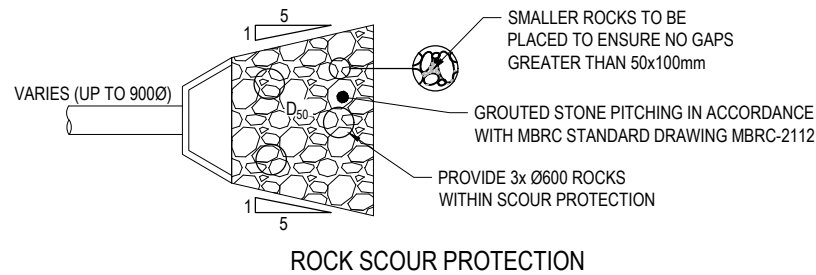
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 3

PROJECT No.	DRAWING No.	REVISION
21-000058.1	422	A

M.B.R.C. REF No. DA/2021/0066

STORMWATER DRAINAGE NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT M.B.R.C. STANDARD DRAWINGS AND METHODS.
- SIDE DRAINS TO BE CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL AND IN LOCATIONS DIRECTED BY THE SUPERINTENDENT IN ACCORDANCE WITH M.B.R.C. STANDARDS.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE A SATISFACTORY CONNECTION AND THE CONTRACTOR SHALL INCLUDE THE COST OF THIS WORK IN THE TENDER PRICE. WHERE NEW WORK JOINS EXISTING, THE WORK SHALL TRANSITION NEATLY WITH THE PAVEMENT SO THAT DEVIATION FROM THE LINE OF A 3.0m STRAIGHT EDGE SHALL BE NO GREATER THAN 10mm.
- ALL STORMWATER PIPES UNDER ROADWAYS AND FOOTPATHS SHALL BE RCP CLASS 3 UNO.
- ALL STORMWATER PIPES UP TO AND INCLUDING 600Ø SHALL BE R.R.J. STORMWATER PIPES GREATER THAN 600Ø SHALL BE INTERNAL FLUSH JOINTED WITH PROPRIETARY EXTERNAL BAND.
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- PROVIDE 'B' GRADE TURFING TO OUTLETS AS DIRECTED BY THE SUPERINTENDENT.
- ALL EXCAVATION AND FILLING SHALL BE COMPACTED TO THE REQUIREMENTS OF AS3798-2007 IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF DEMOLISHING ANY EXISTING STRUCTURES WITHIN THE SITE AREAS.
- THE STORMWATER PIPE CLASSES HAVE BE DESIGNED FOR SERVICE LOADS ONLY, AND THE CONTRACTOR SHALL ACCESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES IF NECESSARY, IN ACCORDANCE WITH AS3725-2007.
- RETAINING WALL SUBSOIL DRAINS TO CONNECT TO KERB AND CHANNEL SUBSOIL OR STORMWATER DRAINAGE STRUCTURES.
- WORKS SHALL BE PROGRAMMED SO AS NOT TO DISTURB NEARBY HOUSEHOLDERS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES.
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- UNLESS DIMENSIONED OTHERWISE, MANHOLE LOCATION IN ROADWAYS TO BE THE FOLLOWING:
 - 1.50m OFF KERB INVERT FOR 6.00m WIDE ROADS
 - 2.00m OFF KERB INVERT FOR 8.00m WIDE ROADS AND GREATER



ROCK SCOUR PROTECTION

OUTLET	OUTLET PIPE SIZE	VELOCITY	D ₅₀	'L'	VOLUME
OUT/XC	Ø600mm	0.99 m/s	200mm	3.50m	5.60m ³
OUT/XB	2x450x300	0.70 m/s	200mm	3.50m	5.60m ³

CONSTRUCTION EQUIPMENT LOADING TYPICAL DETAILS

CONSTRUCTION EQUIPMENT	PIPE CLASS	MINIMUM COMPACTION COVER TO PIPE OBVERT									
		Ø300	Ø375	Ø450	Ø525	Ø600	Ø675	Ø750	Ø825	Ø900	Ø1050
VIBRATORY RAMMER (UP TO 75kg)	2	0.450	0.450	0.400	0.400	0.350	0.350	0.300	0.300	0.250	0.250
	3	0.300	0.300	0.300	0.300	0.250	0.250	0.200	0.200	0.200	0.200
VIBRATORY TRENCH ROLLER (UP TO 2t)	2	0.400	0.400	0.400	0.350	0.250	0.250	0.200	0.200	0.200	0.200
	3	0.250	0.250	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
VIBRATORY SMOOTH DRUM ROLLER (7t)	2	0.700	0.700	0.700	0.650	0.650	0.650	0.600	0.600	0.400	0.400
	3	0.450	0.450	0.450	0.450	0.350	0.350	0.200	0.200	0.200	0.200
VIBRATORY SMOOTH DRUM ROLLER (10t)	2	0.850	0.850	0.850	0.800	0.800	0.800	0.750	0.750	0.750	0.750
	3	0.550	0.550	0.550	0.500	0.500	0.500	0.200	0.200	0.200	0.200
EXCAVATOR AND COMPACTION WHEEL (15t)	2	0.650	0.700	0.650	0.650	0.650	0.650	0.600	0.600	0.550	0.550
	3	0.450	0.450	0.450	0.450	0.450	0.450	0.350	0.350	0.250	0.250
EXCAVATOR AND COMPACTION WHEEL (25t)	2	1.000	1.050	1.000	0.950	0.900	0.900	0.850	0.850	0.750	0.750
	3	0.650	0.650	0.650	0.650	0.650	0.650	0.600	0.600	0.500	0.500
GRADER (CAT120H) (14.5t)	2	0.600	0.600	0.600	0.450	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.600	0.600	0.450	0.450	0.200	0.200	0.200	0.200	0.200	0.200
GRADER (CAT140H) (17.0t)	2	0.600	0.600	0.600	0.600	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.600	0.600	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
SCRAPER (CAT613C11) (27.2t)	2	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.200	0.200
	3	0.600	0.600	0.600	0.600	0.600	0.600	0.200	0.200	0.200	0.200
SCRAPER (CAT621F) (53.8t)	2	0.700	0.700	0.700	0.650	0.650	0.600	0.600	0.600	0.600	0.600
	3	0.650	0.650	0.650	0.600	0.600	0.600	0.600	0.600	0.600	0.600
DOZER (CATD7 G)	2	0.600	0.600	0.600	0.600	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
DOZER (CATD9 R)	2	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.200
	3	0.600	0.600	0.600	0.600	0.600	0.600	0.200	0.200	0.200	0.200
EXCAVATOR (CAT 315B) (15.8t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
EXCAVATOR (CAT317) (17.3t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
EXCAVATOR (CAT325B) (25.9t)	2	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
	3	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200

ROOFWATER NOTES

- ENDS OF PIPES AND STUBS TO BE CAPPED.
- LOTS WITHOUT REAR ALLOTMENT DRAINAGE SHALL HAVE A FULL HEIGHT ROOFWATER KERB ENTRY ADAPTOR AS PER DETAIL (2 PER LOT). WHERE CONCRETE FOOTPATHS ARE CONSTRUCTED, PROVIDE A FULL HEIGHT ROOFWATER KERB ENTRY ADAPTOR WITH 75x100 RHS (GALV) AT 1.0% MINIMUM GRADE EXTENDING PAST THE CONCRETE FOOTPATH TO THE PROPERTY BOUNDARY (2 PER LOT).
- ROOFWATER CONNECTIONS TO MANHOLES AND GULLIES TO BE 150Ø uPVC SN6 AT 1.0% MINIMUM WITH 1.00m MIN. COVER WITHIN THE VERGE

ROCK ARMOURING NOTES:

- ROCKS TO BE DURABLE BLUE STONE OR OTHERWISE APPROVED BY SUPERINTENDENT.
- EACH ROCK SHALL BE :
 - ANGULAR IN SHAPE (PROMOTES INTERLOCKING)
 - FREE FROM OVERBURDEN, SPOIL, SHALE AND ORGANIC MATERIAL.
- NEITHER BREADTH NOR THICKNESS OF A SINGLE ROCK SHALL BE LESS THAN ONE HALF ITS LENGTH (ie THE ROCK SHALL BE CHUNKY RATHER THAN FLAT).
- ROCKS TO BE PLACED AND INTERLOCKED INTO POSITION AND BUILT UP TO FINAL LEVELS SHOWN, ENSURING COVERAGE OF GEOFABRIC.
- GAPS BETWEEN THE ROCKS ARE TO BE FILLED BY DROPPING SMALL ROCKS INTO GAPS AND LOCKING INTO POSITION WITH A CROWBAR.
- ALL ROCKWORK TO BE PLACED OVER BIDIM A24 OR EQUIVALENT.
- FOR ROCK SIZED SPECIFIED AS D50 ON THE DRAWINGS, THIS CORRESPONDS TO THE MEDIAN DIAMETER OF WHICH HALF OF THE ROCK SIZES SHALL BE GREATER AND HALF OF THEM SHALL BE SMALLER. THE ROCK SHALL BE WELL GRADED AND HAVE A MAXIMUM SIZE NO GREATER THAN 30% AND A MINIMUM SIZE NO LESS THAN 30% SMALLER THAN D50. FOR EXAMPLE IF D50 = 400mm IS SPECIFIED, THE EQUIVALENT ROCK DIAMETER RANGES FROM 280 to 520mm.

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AS CONSTRUCTED DETAILS

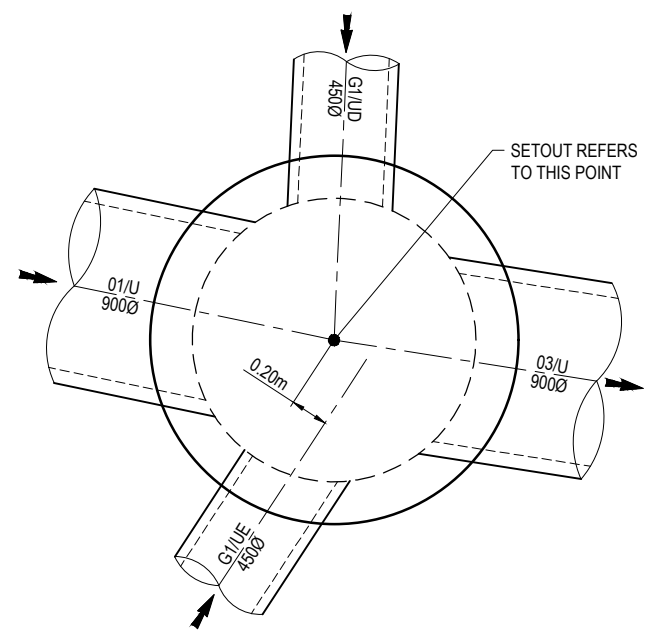
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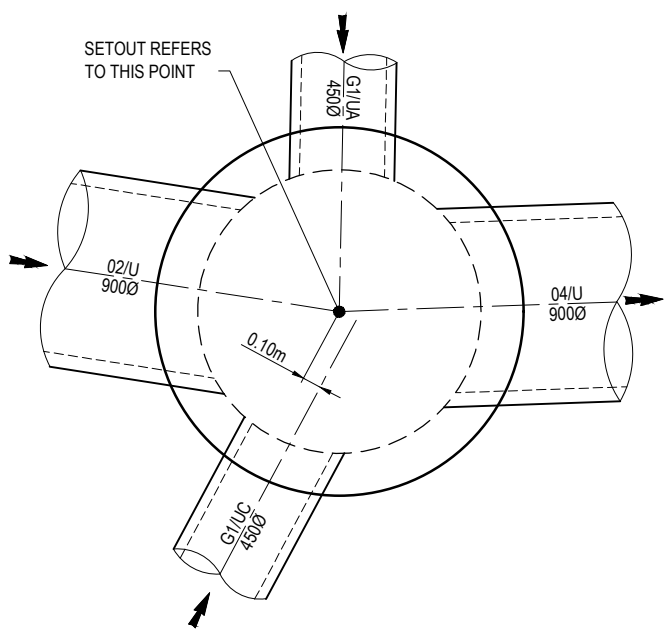
SIGNED: *Mark Wyr* DATE: _____
 MARK WYER RPEQ 16191

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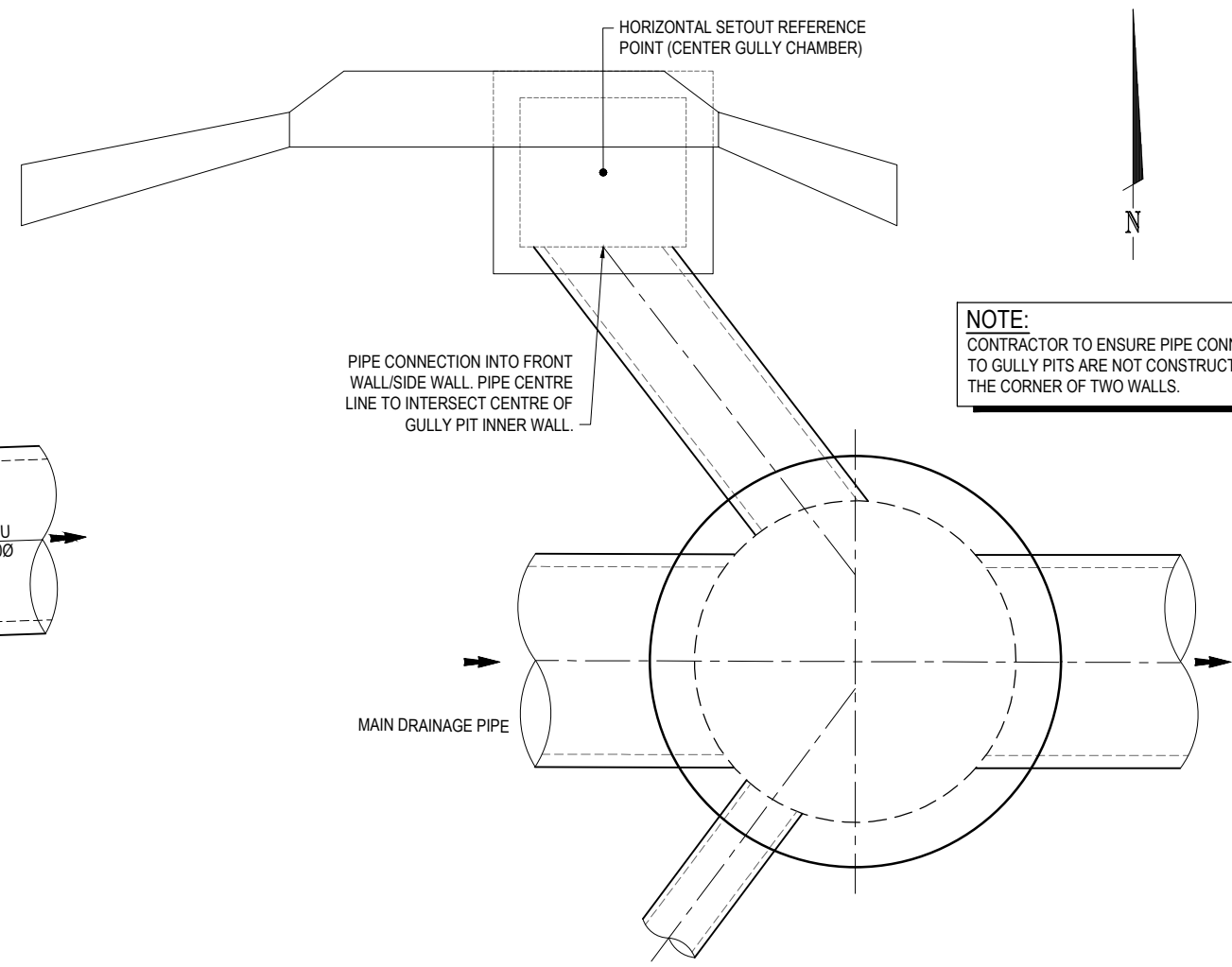
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>ISSUE DETAILS</th> <th>DRAWN</th> <th>DESIGN</th> <th>DRAWN CHECK</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.05.22</td> <td>ISSUED FOR APPROVAL</td> <td>CHC</td> <td>CR</td> <td></td> <td rowspan="4" style="text-align: center; vertical-align: middle;">AS CONSTRUCTED</td> </tr> <tr> <td>2</td> <td>03.11.22</td> <td>(FRC) ADDED</td> <td>CH</td> <td>CH</td> <td></td> </tr> <tr> <td>3</td> <td>20.01.23</td> <td>(FRC) REMOVED</td> <td>CH</td> <td>HS</td> <td></td> </tr> <tr> <td>4</td> <td>23.03.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CH</td> <td>HS</td> <td>DESIGN CHECK</td> </tr> <tr> <td>A</td> <td>19.01.24</td> <td>AS CONSTRUCTED</td> <td>JM</td> <td>CH</td> <td></td> <td></td> </tr> </tbody> </table>	REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	1	13.05.22	ISSUED FOR APPROVAL	CHC	CR		AS CONSTRUCTED	2	03.11.22	(FRC) ADDED	CH	CH		3	20.01.23	(FRC) REMOVED	CH	HS		4	23.03.23	ISSUED FOR CONSTRUCTION	CH	HS	DESIGN CHECK	A	19.01.24	AS CONSTRUCTED	JM	CH			<p style="text-align: center;">APPROVED MARK WYER</p> <p style="text-align: center;">RPEQ 16191</p> <p style="text-align: center; font-size: small;">FOR & ON BEHALF OF EGIS CONSULTING PTY LTD</p>	<p style="text-align: center;">SCALE</p> <p style="text-align: center;">1:500 10 5 0 10 20 A1 1:1000</p>	<p style="text-align: center;">CLIENT</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">PEET</p> <p style="text-align: center; font-size: small;">CABOOLTURE SYNDICATE LTD</p>	<p style="text-align: center;">PROJECT</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">egis</p> <p style="text-align: center; font-size: small;">© 2023 Egis Consulting Pty Ltd www.egis-group.com</p>	<p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center; font-weight: bold;">RIVERBANK ESTATE STAGE 20</p>	<p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center; font-weight: bold;">STORMWATER DRAINAGE NOTES AND DETAILS</p>
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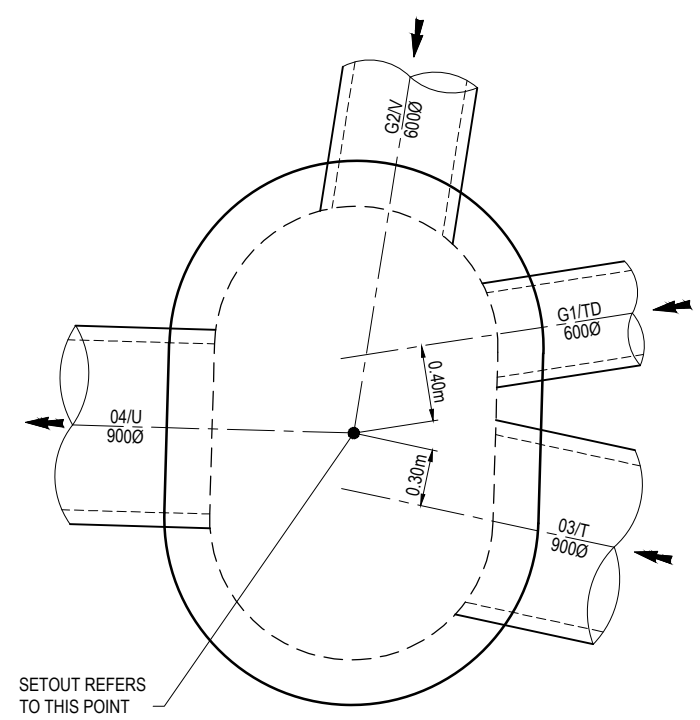
02/U - 1500 DIA MANHOLE DETAIL
 SCALE (A1): 1:20
 SCALE (A3): 1:40



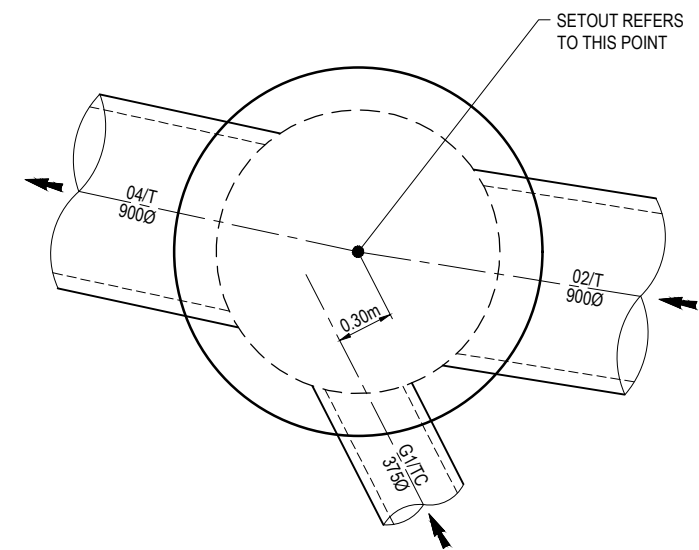
03/U - 1500 DIA MANHOLE DETAIL
 SCALE (A1): 1:20
 SCALE (A3): 1:40



TYPICAL GULLY PIT PIPE CONNECTION DETAIL
 SCALE (A1): 1:20
 SCALE (A3): 1:40



04/T - 1500 EX 900 MANHOLE DETAIL
 SCALE (A1): 1:20
 SCALE (A3): 1:40



03/T - 1500 DIA MANHOLE DETAIL
 SCALE (A1): 1:20
 SCALE (A3): 1:40

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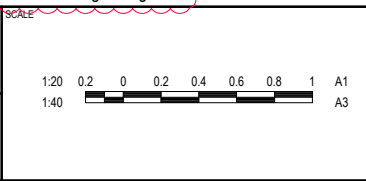
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AS CONSTRUCTED

APPROVED: *MARK WYER* RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



CLIENT

PEET

CABOOLTURE SYNDICATE LTD

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PROJECT

RIVERBANK ESTATE STAGE 20

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M.B.R.C. REF No. DA/2021/0066

DRAWING TITLE

STORMWATER DRAINAGE MANHOLE DETAILS

PROJECT No. 21-000058.1
 DRAWING No. 450
 REVISION A

PSM 191027
 E: 495937.616
 N: 7003052.339
 RL: 8.767m



UNITYWATER PROJECT NUMBER 2018012713S16

MARKET DRIVE, CABOOLTURE SOUTH

DN250/DN150 SEWER/WATER MAIN



DRAWING INDEX	
DRAWING NUMBER	DESCRIPTION
U-2023-4789 Sheet 1	LOCALITY PLAN AND DRAWING INDEX
U-2023-4789 Sheet 2	SEWER RETICULATION
U-2023-4789 Sheet 3	SEWER RETICULATION
U-2023-4789 Sheet 4	WATER RETICULATION
U-2023-4789 Sheet 5	WATER RETICULATION

COORDINATE DATUM NOTE:
 HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 1994.

ENGINEER'S CERTIFICATION

I, _____, hereby certify that:

- The information contained in this drawing / document is in compliance with approved drawings and design.
- The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ Code.
- This represents an accurate record of as-constructed works
- I accept responsibility for the information contained in this drawing / document.

 RPEQ (signature) RPEQ No. _____ Date: _____

REGISTERED SURVEYOR'S CERTIFICATION

I, ANDREW ROBERT THURSTON, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

ALR
 Registered Surveyor (sig) Reg. Surveyor No. 03047 Date: 14.03.2024

AS CONSTRUCTED

A1									SHEET 1 OF 5 SHEETS REVISION DATE 01.02.2024 DISCIPLINE CODE C DRAWING NO. U-2023-4789	SCALE 1:250 REVISION B
	B	14.03.2024	AS CONSTRUCTED - SEWER LOT 1473 HOUSE CONNECTION UPDATED	JC	AD	AT	CHECKED		AD	14.03.2024
	A	01.02.2024	AS CONSTRUCTED	JC	AD	AT	PASSED		AT	14.03.2024
INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	2018012713S16 RIVERBANK STAGE 20 WATERSIDE ESPLANADE COVER SHEET		

PSM 191027
 E: 495937.616 883
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 RL: 8.767m

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 SP317233

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 SP317233

1392
 SP317233

1385
 SP317233

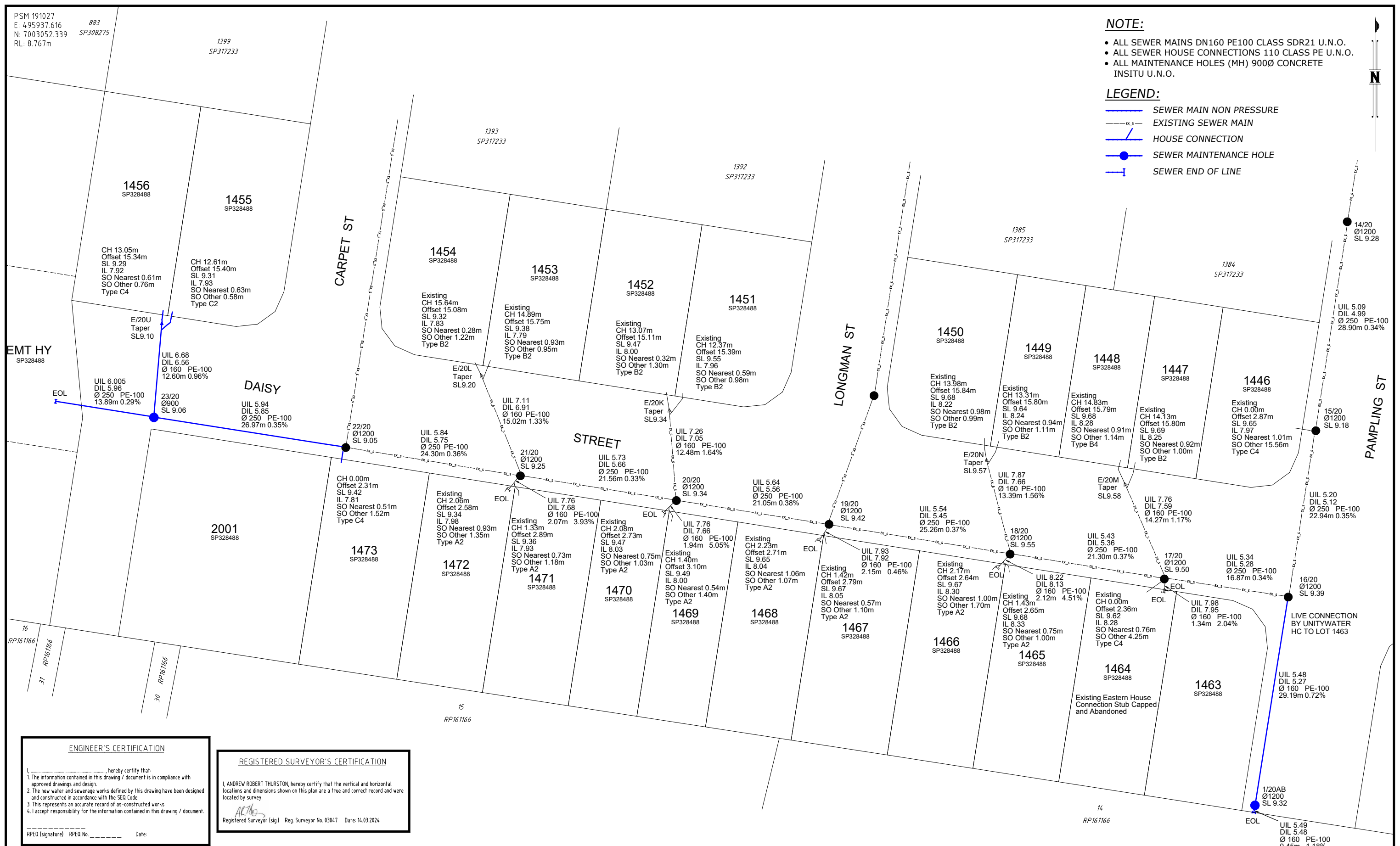
1384
 SP317233

NOTE:

- ALL SEWER MAINS DN160 PE100 CLASS SDR21 U.N.O.
- ALL SEWER HOUSE CONNECTIONS 110 CLASS PE U.N.O.
- ALL MAINTENANCE HOLES (MH) 900Ø CONCRETE INSITU U.N.O.

LEGEND:

- SEWER MAIN NON PRESSURE
- - - EXISTING SEWER MAIN
- HOUSE CONNECTION
- SEWER MAINTENANCE HOLE
- SEWER END OF LINE



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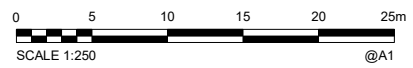
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	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	

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 Planning Urban Design Landscape Environment Surveying
 Brisbane Level 2, 1 Breakfast Ck Road, Newstead, QLD 4006 Phone: (07) 3666 5200

Unitywater

Unitywater
 2018012713516
 RIVERBANK STAGE 20
 WATERSIDE ESPLANADE
 SEWER RETICULATION

SHEET 2 OF 5 SHEETS	SCALE 1:250
REVISION DATE 01.02.2024	REVISION B
DISCIPLINE CODE C	
DRAWING NO. U-2023-4789	

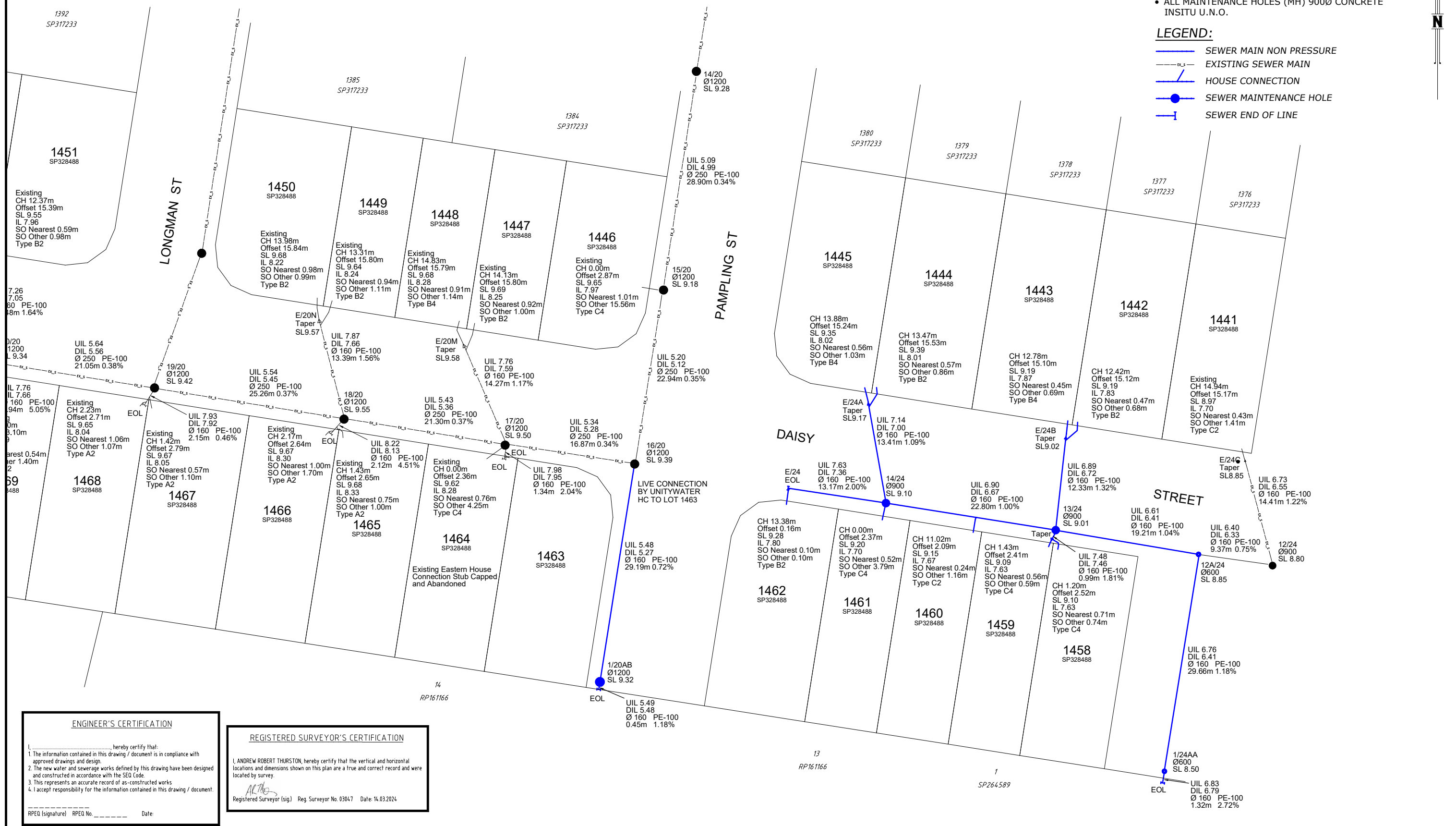
PSM 191027
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 N: 7003052.339
 RL: 8.767m

NOTE:

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- ALL SEWER HOUSE CONNECTIONS 110 CLASS PE U.N.O.
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LEGEND:

- SEWER MAIN NON PRESSURE
- EXISTING SEWER MAIN
- HOUSE CONNECTION
- SEWER MAINTENANCE HOLE
- SEWER END OF LINE



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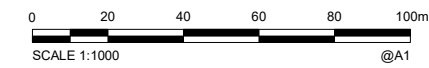
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Unitywater
 2018012713516
 RIVERBANK STAGE 20
 WATERSIDE ESPLANADE
 SEWER RETICULATION

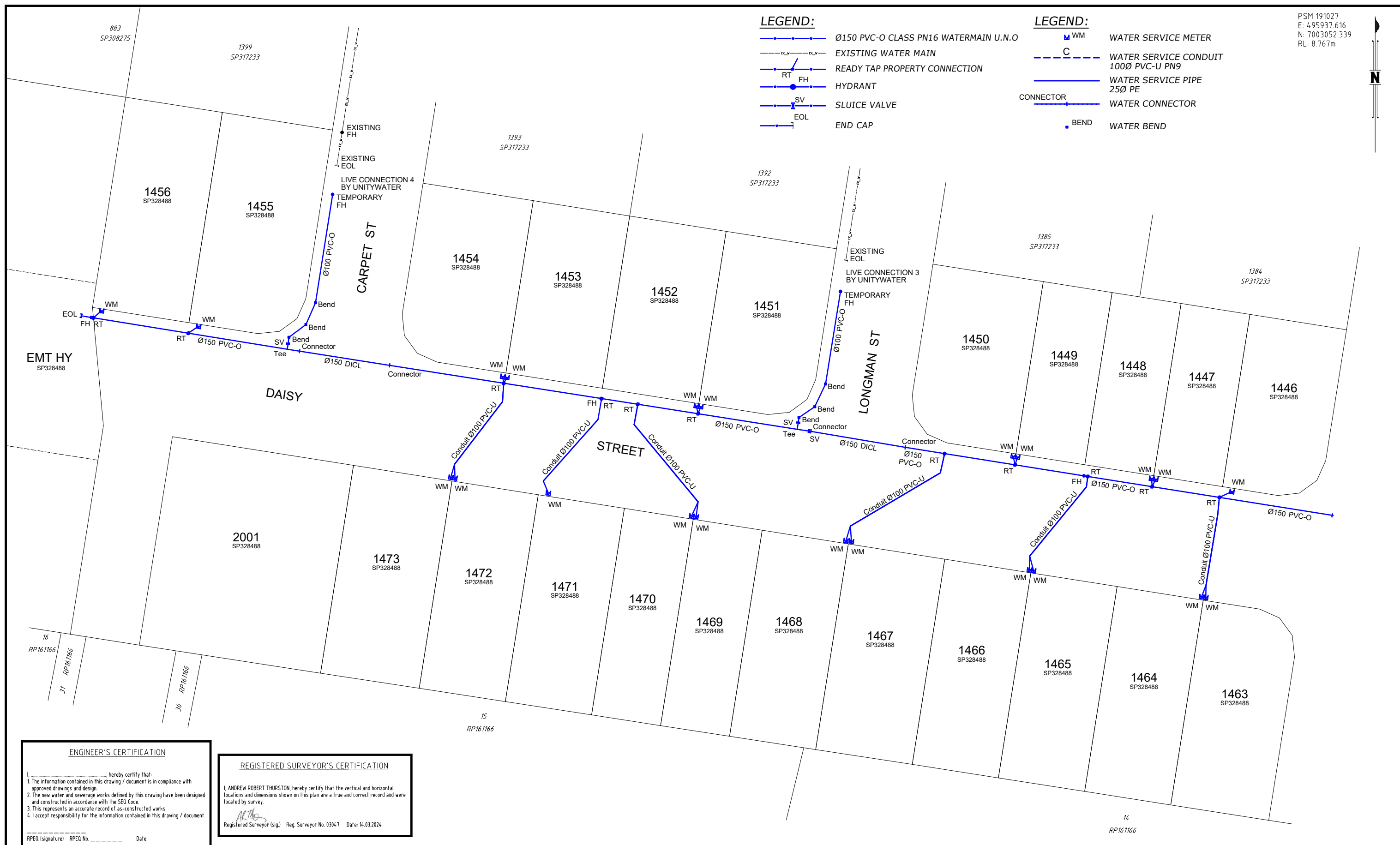
SHEET 3 OF 5 SHEETS	SCALE 1:250
REVISION DATE 01.02.2024	REVISION B
DISCIPLINE CODE C	
DRAWING NO. U-2023-4789	

LEGEND:

- Ø150 PVC-O CLASS PN16 WATERMAIN U.N.O
- EXISTING WATER MAIN
- READY TAP PROPERTY CONNECTION
- HYDRANT
- SLUICE VALVE
- END CAP

LEGEND:

- WM WATER SERVICE METER
- C WATER SERVICE CONDUIT 100Ø PVC-U PN9
- WATER SERVICE PIPE 25Ø PE
- CONNECTOR WATER CONNECTOR
- BEND WATER BEND



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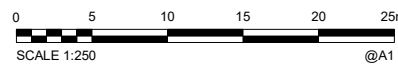
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consulting group

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2018012713516
RIVERBANK STAGE 20
WATERSIDE ESPLANADE
WATER RETICULATION

SHEET 4 OF 5 SHEETS	SCALE 1:250
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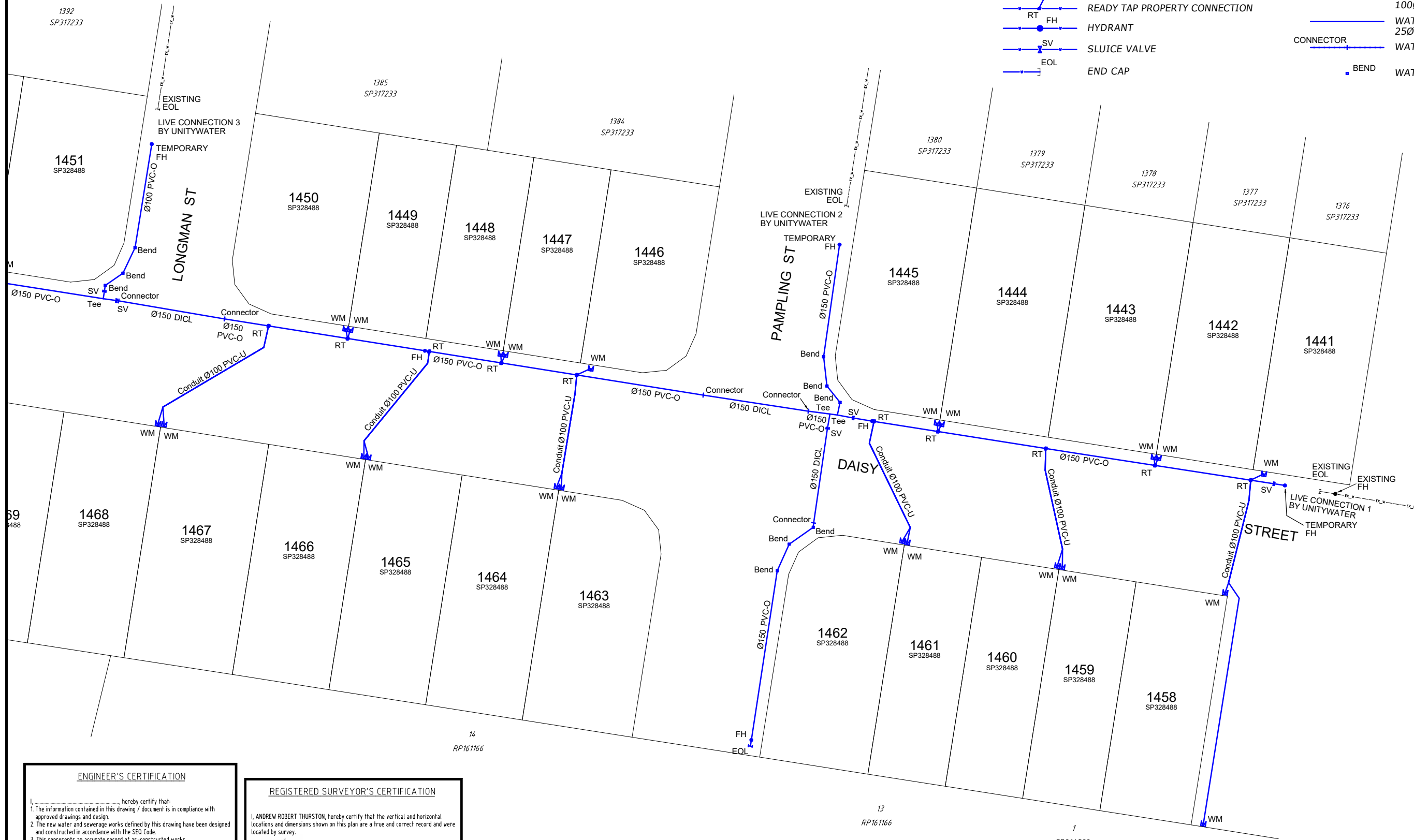
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- READY TAP PROPERTY CONNECTION
- HYDRANT
- SLUICE VALVE
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LEGEND:

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- WATER SERVICE CONDUIT 100Ø PVC-U PN9
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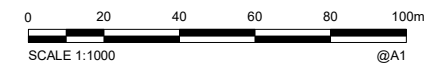
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SHEET 5 OF 5 SHEETS	SCALE 1:250
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