

RIVERBANK ESTATE

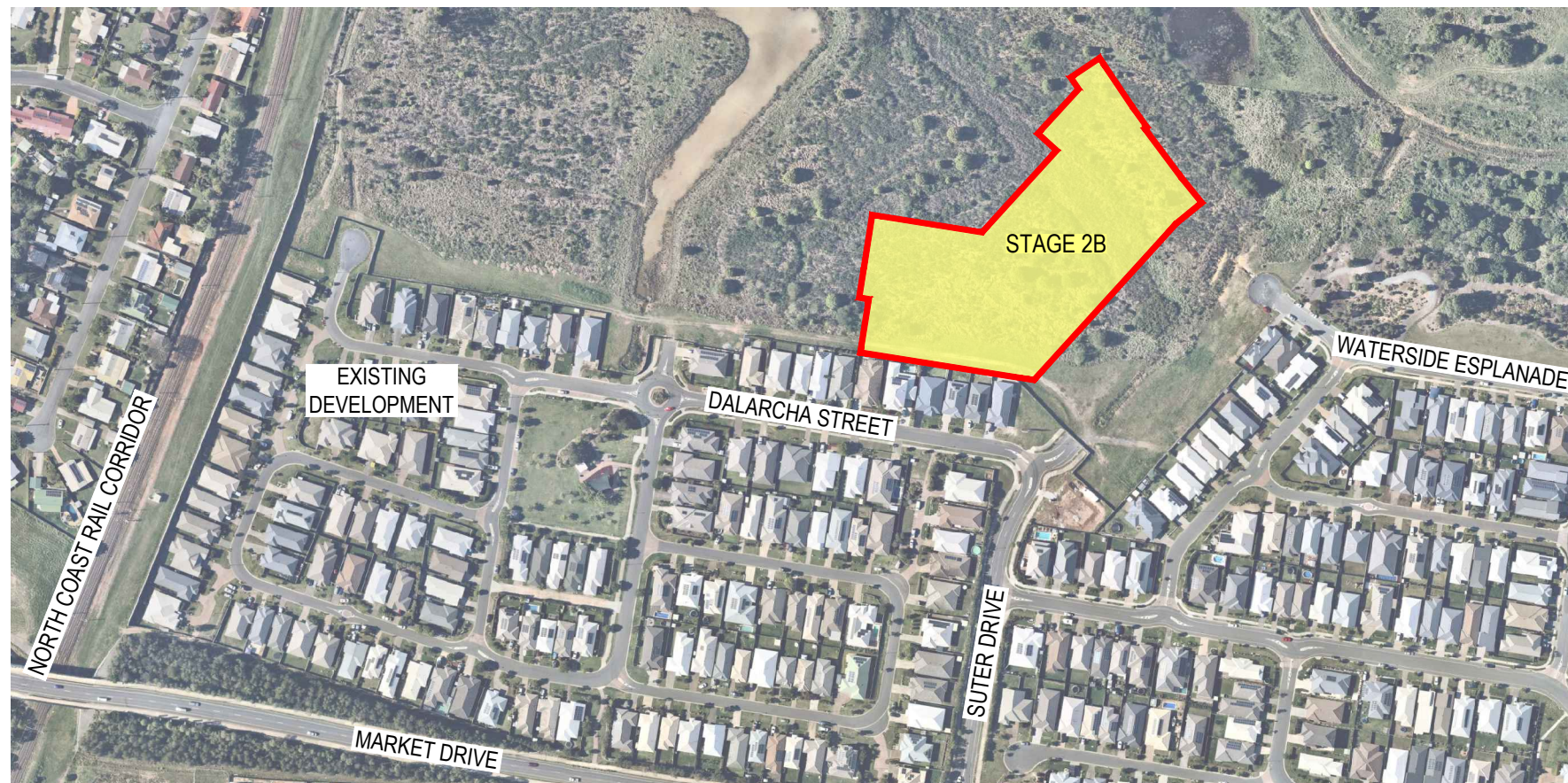
STAGE 2B FOR PEET CABOOLTURE SYNDICATE LTD



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: 15-01-2024
MARK WYER RPEQ 16191



LOCALITY PLAN
NTS

MORETON BAY REGIONAL COUNCIL

AREA OF SITE: - 1.55ha

LOT INFORMATION

EXISTING LOT

LOT 1024 SP317233

PROPOSED NO. OF LOTS: 28

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GENERAL	
000	COVER SHEET LOCALITY PLAN AND DRAWING INDEX
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430	STORMWATER DRAINAGE CALCULATIONS TABLES SHEET 1 OF 2
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SEWER RETICULATION	
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501	SEWER RETICULATION LAYOUT PLAN
510	SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2
511	SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2
WATER RETICULATION	
600	WATER RETICULATION COVER SHEET
601	WATER RETICULATION LAYOUT PLAN

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.

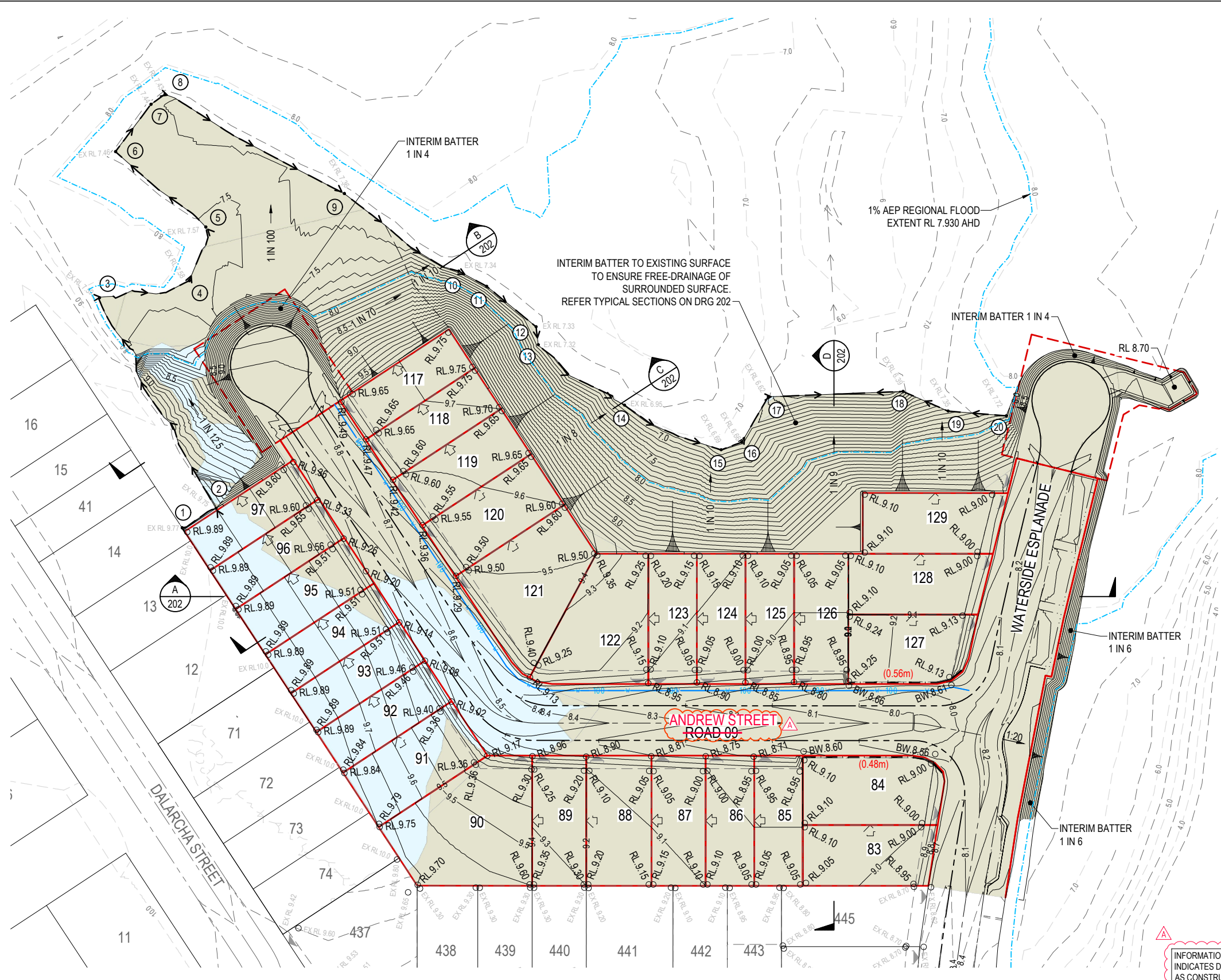
RIVERBANK ESTATE

STAGE 2B

M.B.R.C. REF No. DA/2021/0413

Project No.: 21-000078.2 Stage: 2B Milestone: AS Revision Date: 18.12.2023 Drawing No.: 000 Revision: A

CONSTRUCTED



LEGEND

- PROPOSED CONCRETE SLEEPER RETAINING WALL REFER TYPICAL DETAIL
- (1.31m) PROPOSED RETAINING WALL HEIGHT
- EXISTING SURFACE CONTOUR (0.5m INTERVALS)
- BULK EARTHWORKS SURFACE CONTOUR (0.1m INTERVALS)
- TEMPORARY EASEMENT
- INTERIM SWALE. REFER TYPICAL SECTION ON DRG 202
- EXISTING FLOW
- Q100 FLOOD LEVEL

- AREA OF EARTHWORKS FILL
- AREA OF CUT
- FINISHED SURFACE SPOT LEVEL
- BOTTOM OF RETAINING WALL LEVEL (FINAL SURFACE)
- EXISTING SURFACE LEVEL
- SETOUT POINT
- INDICATIVE DRIVEWAY LOCATION
- MANDATORY ZERO LOT LINE
- NOMINAL ZERO LOT LINE
- PROPOSED EARTHWORKS BATTER

NOTE:
REFER DRG 201 FOR NOTES AND DETAILS.

EARTHWORKS QUANTITIES:
 CUT VOLUME : 895 m³
 FILL VOLUME : 27,141 m³
 BAL : 26,246m³ IMPORT

SWALE INTERFACE - SETOUT TABLE

Point No.	Easting	Northing
1	5901.507	3317.431
2	5903.432	3326.223
3	5849.462	3338.998
4	5860.469	3357.014
5	5853.885	3368.127
6	5827.045	3364.444
7	5824.479	3377.844
8	5824.946	3381.753
9	5869.699	3396.934
10	5900.675	3404.408
11	5907.592	3406.835
12	5922.146	3408.972
13	5925.548	3406.558
14	5949.258	3411.865
15	5971.865	3421.410
16	5973.739	3426.110
17	5970.146	3437.692
18	5990.156	3461.489
19	6000.452	3466.091
20	6010.313	3475.267

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:
 DESIGN LEVELS AND CONTOURS ARE TO FINISHED LEVEL. ROAD CARRIAGEWAY ARE TO BE FILLED TO PAVEMENT SUBGRADE ONLY.

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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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	DESIGN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC			
2	29.08.22	FINAL SURFACE LEVEL AMENDED	CHC	CHC			
3	06.12.22	EARTHWORKS BATTER CHANGED TO 1:6 IN PARK AREA	HS	CHC			
4	20.01.23	LOT 127 LEVELS AND WALL HEIGHT AMENDED	CHC	HS		DESIGN CHECK	
5	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS			
A	18.12.23	AS CONSTRUCTED	JM	HS			

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE

1:500 10 5 0 10 20 A1
 1:1000

CLIENT

PEET

CABOOLTURE SYNDICATE LTD

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PROJECT

RIVERBANK ESTATE STAGE 2B

DISCLAIMER
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M.B.R.C. REF No. DA/2021/0413

DRAWING TITLE

BULK EARTHWORKS LAYOUT PLAN

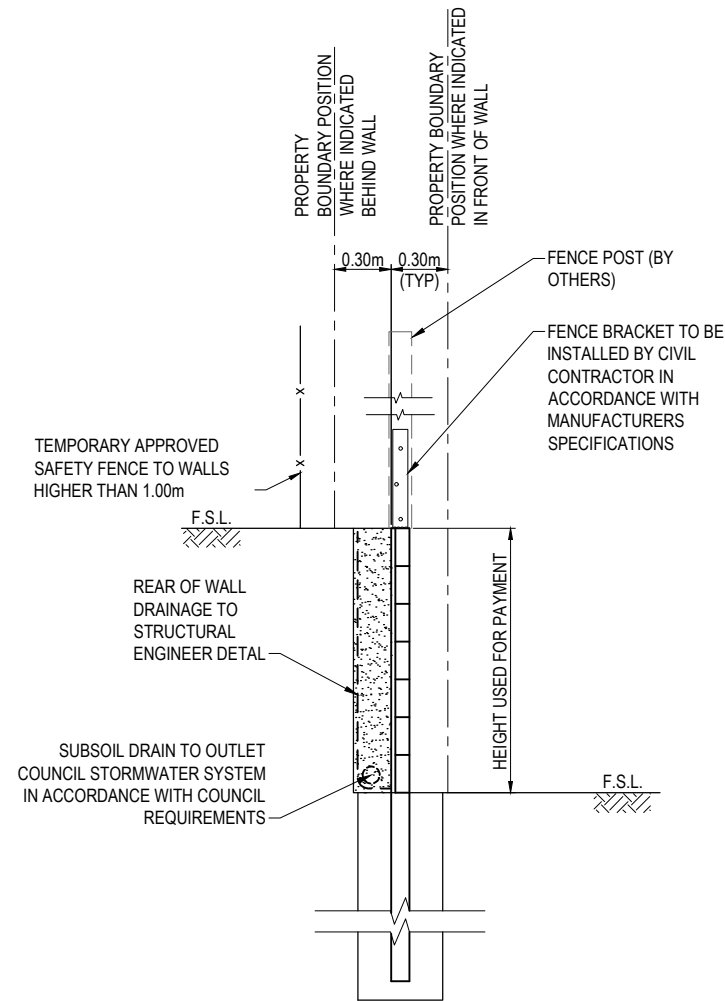
PROJECT No. 21-000078.2
 DRAWING No. 200
 REVISION A

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

BULK EARTHWORKS NOTES

1. 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.
2. 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.
3. 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.
4. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCING THE DEMOLITION OF ANY EXISTING STRUCTURES WITHIN THE SITE AREA.
5. ALL DRAINAGE STRUCTURES TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
6. 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.
7. 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.
8. CONTRACTOR TO USE INDUSTRY BEST PRACTICE TO ENSURE ADEQUATE DUST CONTROL DURING EARTHWORKS OPERATIONS.
9. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.

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.



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

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EXISTING STAGE 2A

EXISTING LOT 445

1 IN 3 (MAX) BATTER

LOT 83

LOT 84

ROAD RESERVE

LOT 126

1 IN 9

RL3.000

SECTION D
SCALE (A1) 1:200
SCALE (A3) 1:400

EXISTING STAGE 1

EXISTING LOT 12

1 IN 3 (MAX) BATTER

LOT 95

ROAD RESERVE

LOT 120

1 IN 8

RL3.000

SECTION C
SCALE (A1) 1:200
SCALE (A3) 1:400

EXISTING STAGE 1

EXISTING LOT 41

1 IN 4 (MAX) BATTER

4.86mm

19.00mm

TEMPORARY TURNAROUND

3.39mm

VARIES 1 IN 12.5 MAX.

1 IN 4 (MAX) BATTER

1 IN 70

1 IN 10

RL4.000

SECTION B
SCALE (A1) 1:200
SCALE (A3) 1:400

EXISTING STAGE 1

EXISTING LOT 13

1 IN 3 (MAX) BATTER

LOT 96

LOT 95

LOT 94

ROAD RESERVE

LOT 121

LOT 122

LOT 123

LOT 124

LOT 125

RL3.000

EXISTING SURFACE

REFER BELOW FOR CONTINUATION

REFER ABOVE FOR CONTINUATION

LOT 125

LOT 126

LOT 128

DESIGN SURFACE

ROAD RESERVE

1 IN 6

DESIGN SURFACE

EXISTING SURFACE

1.25m

0.75m

1.25m

1 IN 2

1 IN 2

SECTION A
SCALE (A1) 1:200
SCALE (A3) 1:400

GRASSED SWALE TYPICAL DETAIL

SCALE (A1) 1:50

SCALE (A3) 1:100

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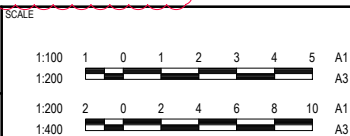
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1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	29.08.22	SWALE TYPICAL DETAIL ADDED. SECTION D AMENDED	CHC	CHC		
3	06.12.22	SECTION A BATTER SLOPE UPDATED	HS	CHC		
4	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS	DESIGN CHECK	
A	18.12.23	AS CONSTRUCTED	JM	HS		

AS CONSTRUCTED

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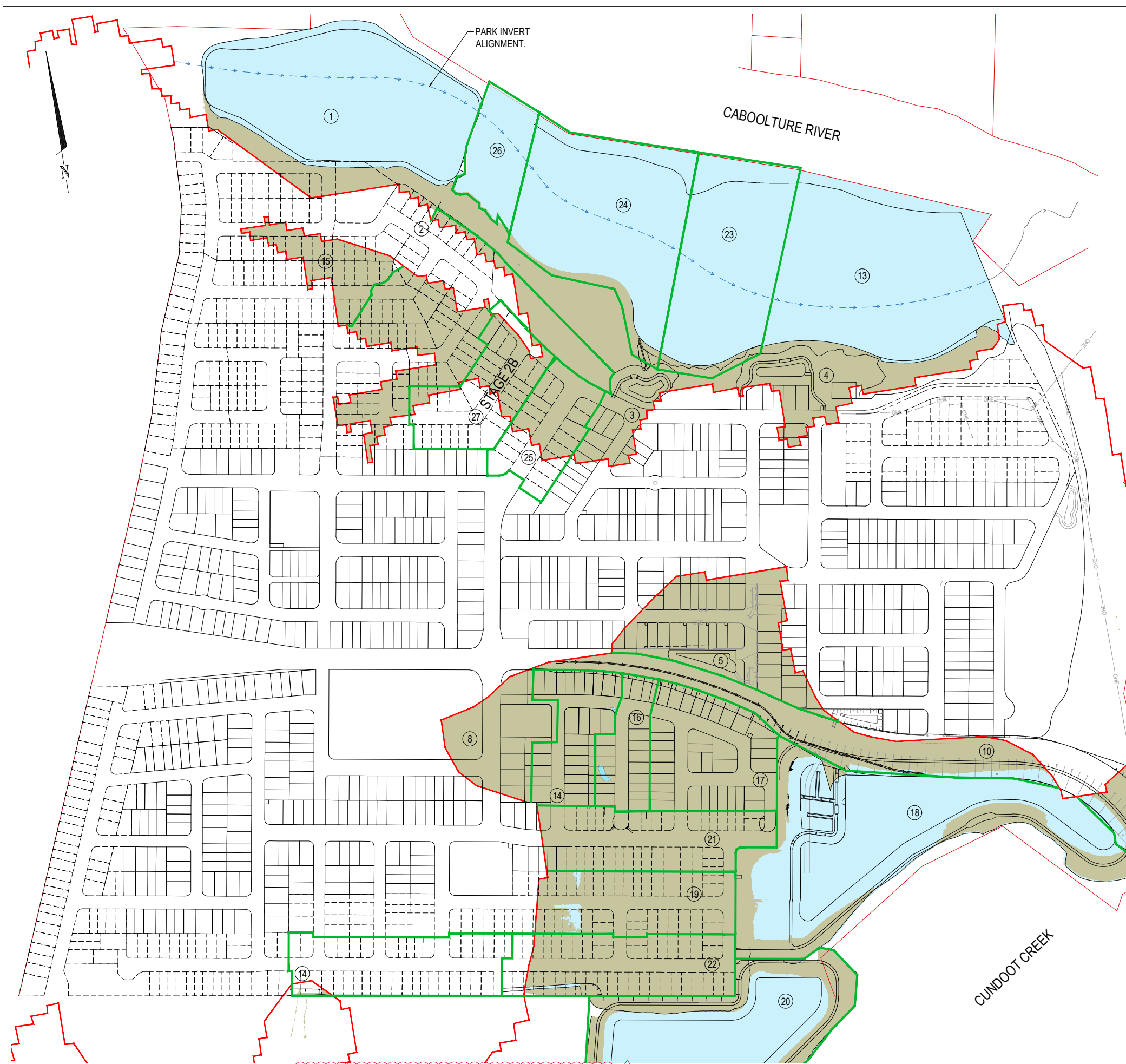
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PROJECT: RIVERBANK ESTATE STAGE 2B

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DRAWING TITLE		
BULK EARTHWORKS SECTIONS		
PROJECT No.	DRAWING No.	REVISION
21-000078.2	202	A



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
SUBTOTALS		457768	445574
BALANCE		12,194m³ ADDITIONAL FLOOD STORAGE CREATED	

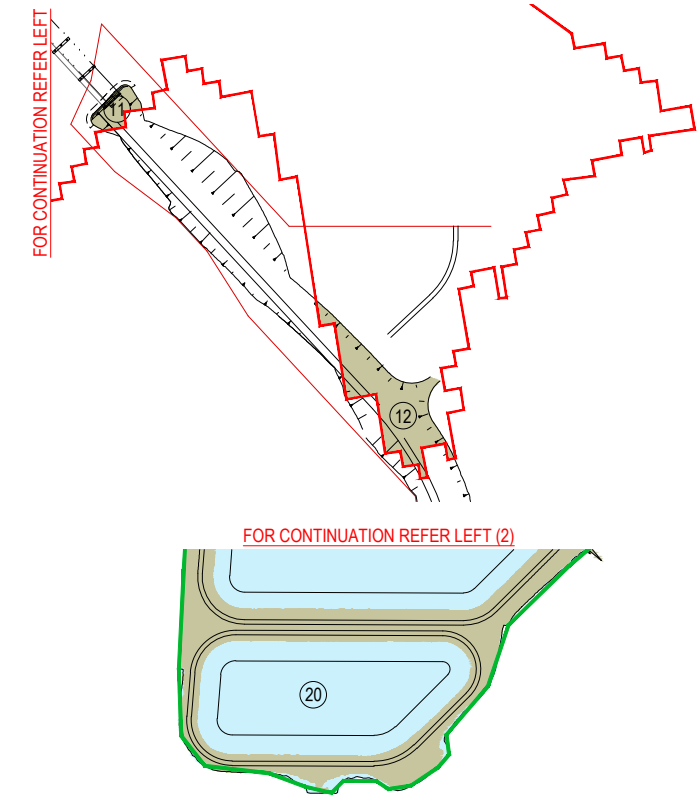
LEGEND

COMPENSATORY EARTHWORKS	
DESCRIPTION	PROPOSED
EARTHWORK CUT BELOW Q100 LEVEL	
EARTHWORK FILL BELOW Q100 LEVEL	
1%AEP FLOOD LEVEL RL 7.84 SOUTHERN PRECINCT RL 7.92 NORTHERN PRECINCT	
COMPENSATORY EARTHWORKS VOLUMES	

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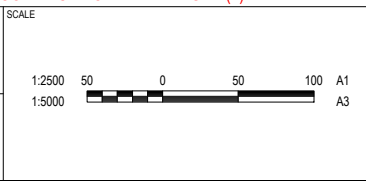
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FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



CLIENT

PEET
CABOOLTURE SYNDICATE LTD

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PROJECT

**RIVERBANK ESTATE
STAGE 2B**

DISCLAIMER
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M.B.R.C. REF No. DA/2021/0413

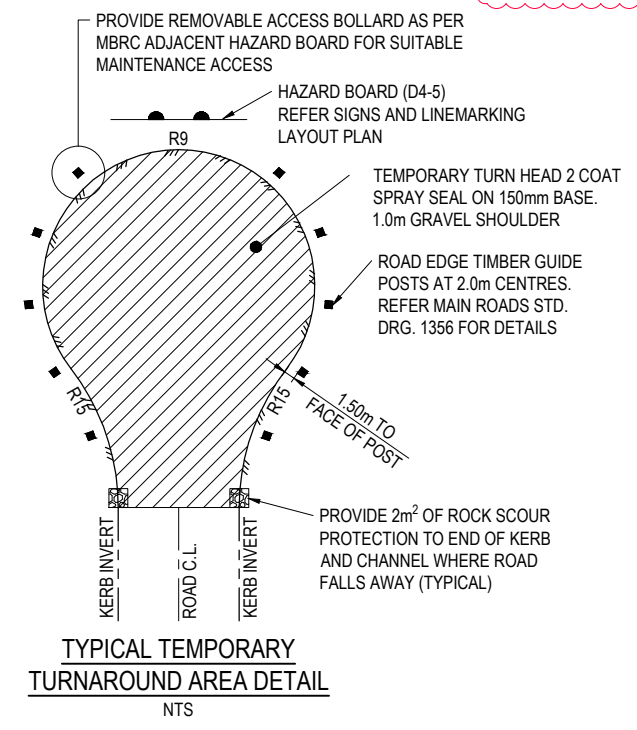
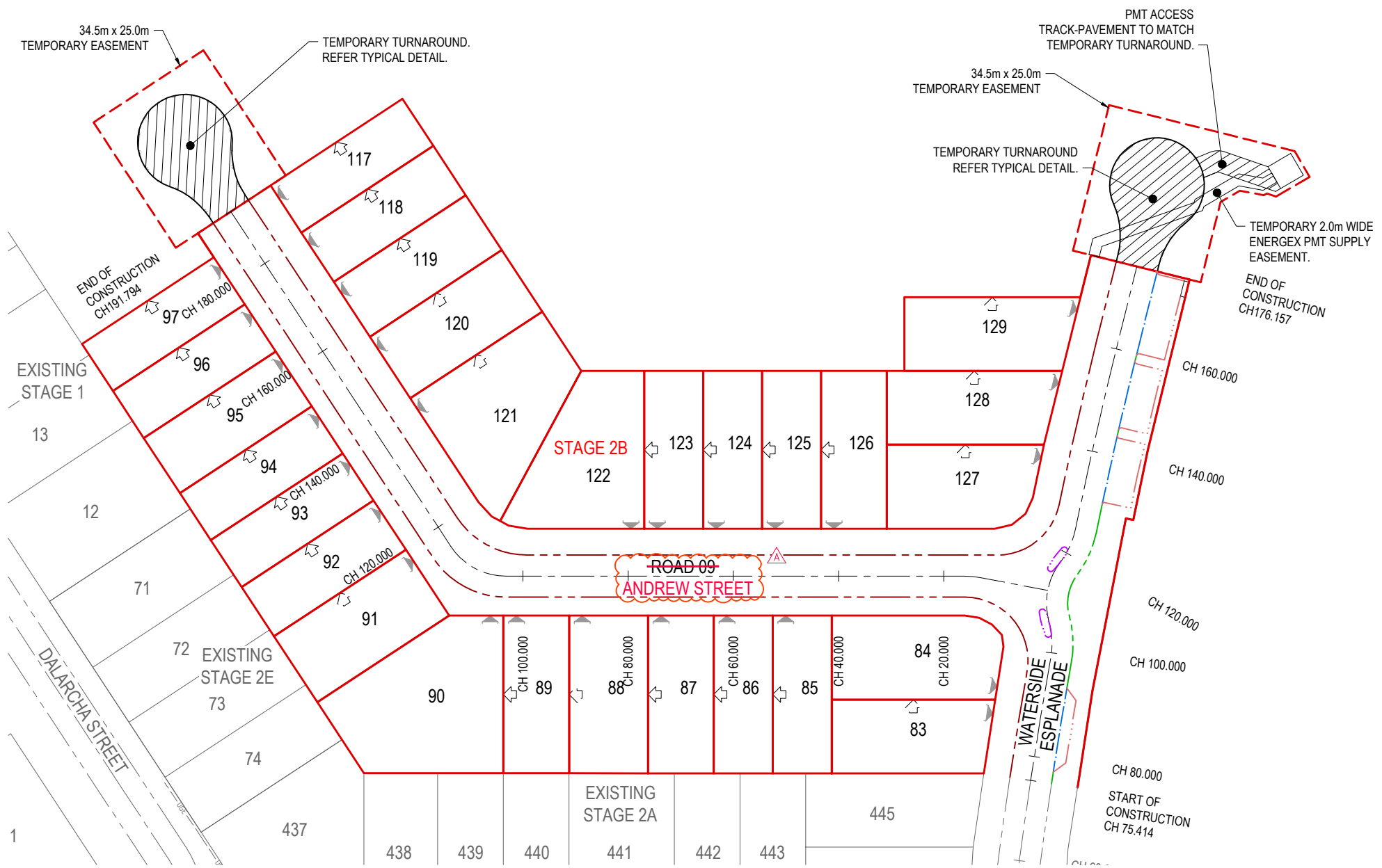
DRAWING TITLE

COMPENSATORY EARTHWORKS LAYOUT PLAN

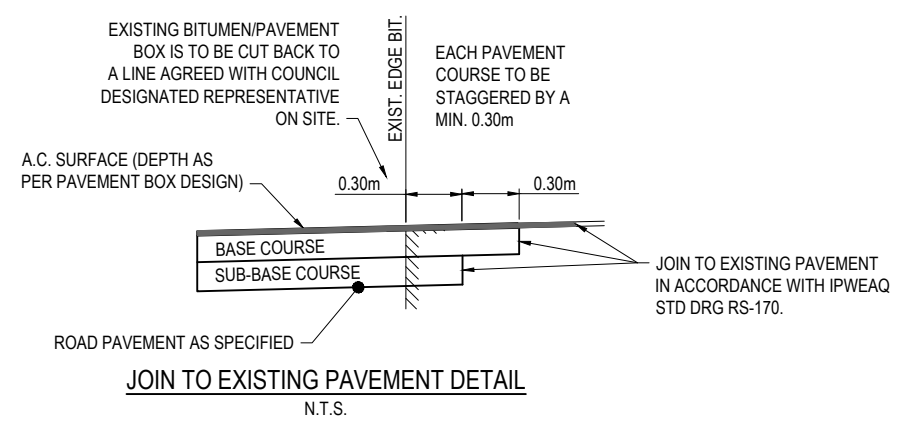
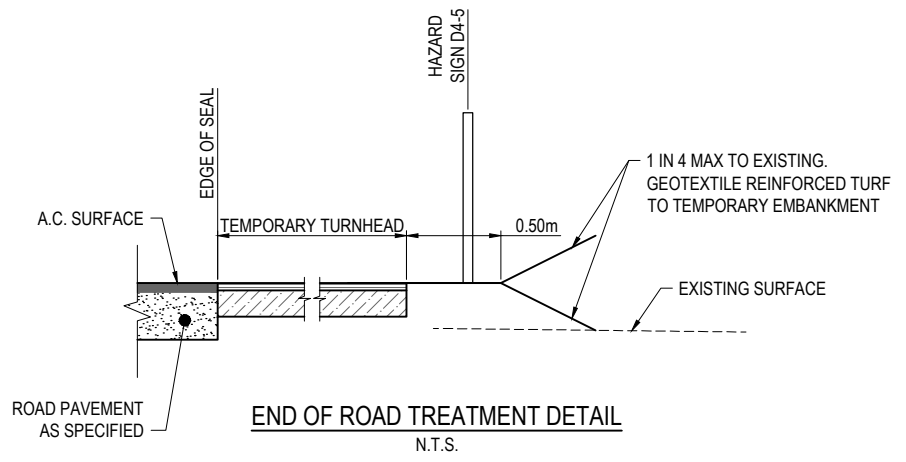
PROJECT No. 21-000078.2
DRAWING No. 210
REVISION A

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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 Wyrer* DATE 15-01-2024
 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.



LEGEND

- PROPOSED LOT BOUNDARY
- - - PROPOSED BARRIER KERB & CHANNEL TYPE B1
- · - · - PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
- · - · - PROPOSED BARRIER KERB TYPE B2
- · - · - PROPOSED SPLITTER ISLAND
- · - · - PROPOSED CHANNEL (600mm)
- - - EXISTING KERB AND CHANNEL
- MANDATORY ZERO LOT LINE
- NOMINAL ZERO LOT LINE

* 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>18.05.22</td> <td>ISSUED FOR APPROVAL</td> <td>CHC</td> <td>CHC</td> <td></td> <td rowspan="3" style="text-align: center;">AS CONSTRUCTED</td> </tr> <tr> <td>2</td> <td>21.03.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CHC</td> <td>CHC</td> <td></td> </tr> <tr> <td>A</td> <td>18.12.23</td> <td>AS CONSTRUCTED</td> <td>JM</td> <td>HS</td> <td></td> </tr> </tbody> </table>				REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		AS CONSTRUCTED	2	21.03.23	ISSUED FOR CONSTRUCTION	CHC	CHC		A	18.12.23	AS CONSTRUCTED	JM	HS		<p>APPROVED MARK WYER RPEQ 16191</p> <p>FOR & ON BEHALF OF EGIS CONSULTING PTY LTD</p>		<p>SCALE</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 No. 21-000078.2</p> <p>DRAWING No. 300</p> <p>REVISION A</p>		<p>M.B.R.C. REF No. DA/2021/0413</p> <p>DRAWING TITLE</p> <p>RIVERBANK ESTATE STAGE 2B</p> <p>CONTROL LINE LAYOUT PLAN</p>	
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS																																			
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		AS CONSTRUCTED																																			
2	21.03.23	ISSUED FOR CONSTRUCTION	CHC	CHC																																					
A	18.12.23	AS CONSTRUCTED	JM	HS																																					

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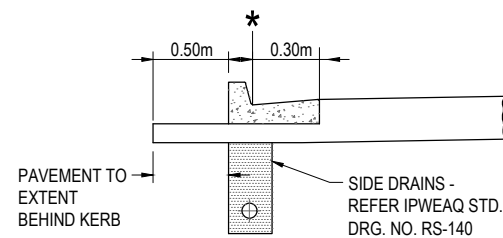
15-01-2024
SIGNED: *Mark Wyer* DATE: _____
MARK WYER RPEQ 16191

WATERSIDE ESPLANADE CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
START	75.414	6085.285	3394.757				
IP 8	78.961	6082.885	3397.379		R = 900.000	39.902	2°32'24.75"
CC	98.912	6070.703	3413.183	322°22'25.92"			
IP 9	102.460	6068.500	3416.040		R = -16.000	7.098	25°24'59.71"
CC	106.009	6065.284	3417.676	296°57'26.21"			
IP 10	111.958	6059.577	3420.578		R = 13.000	11.897	52°26'09.54"
CC	117.907	6058.399	3426.871	349°23'35.75"			
IP 11	121.455	6057.735	3430.417		R = -16.000	7.098	25°24'59.71"
CC	125.004	6055.613	3433.335	323°58'36.04"			
IP 12	142.938	6045.065	3447.841		R = 900.000	35.867	2°17'00.05"
CT	160.871	6035.103	3462.756	326°15'36.09"			
END	176.157	6026.612	3475.468				
TC	177.686	6025.763	3476.739	326°15'36.09"			
IP 13	189.477	6016.531	3490.561		R = -13.000	23.583	103°56'28.13"

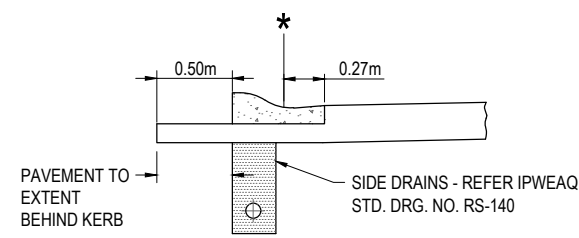
ANDREW STREET ROAD 09 CONTROL SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	6060.771	3421.472	8.619	233°10'30.98"			
TC	12.966	6050.392	3413.700	8.324	233°10'30.98"			
IP 2	14.482	6049.175	3412.789	8.322		R = -16.000	3.030	10°51'05.98"
CT	15.997	6048.152	3411.666	8.327	222°19'25.00"			
TC	103.209	5989.431	3347.185	8.807	222°19'25.00"			
IP 3	109.442	5984.854	3342.159	8.841		R = 12.600	12.467	56°41'35.00"
CT	115.676	5978.140	3343.225	8.876	279°01'00.00"			
END	192.252	5902.510	3355.226					
TC	208.794	5886.172	3357.818	9.203	279°01'00.00"			
IP 4	218.612	5873.827	3359.777	9.129		R = 12.500	19.635	90°00'00.00"
CT	228.429	5875.786	3372.123	9.055	9°01'00.00"			
IP 5	289.396	5885.340	3432.336		9°01'00.00"			



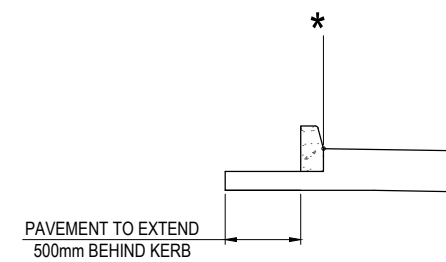
BARRIER KERB AND CHANNEL
TYPE B1 IPWEAQ
SCALE 1 : 25

* NOMINAL KERB LINE



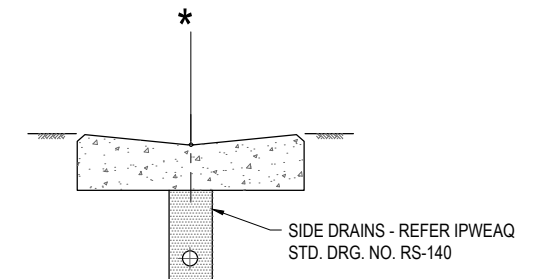
MOUNTABLE KERB AND CHANNEL
TYPE M3 IPWEAQ
SCALE 1 : 25

* NOMINAL KERB LINE



BARRIER KERB ONLY TYPE B2
IPWEAQ
SCALE 1 : 25

* NOMINAL KERB LINE



CONCRETE INVERT
(600mm) IPWEAQ
SCALE 1 : 10

* NOMINAL KERB LINE

* 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	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		AS CONSTRUCTED	1:25 0.25 0.5 0.75 1.0 1.25 A1 1:50 A3	PEET CABOOLTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 2B	CONTROL LINE SETOUT TABLES AND DETAILS	21-000078.2	301	A
2	21.03.23	ISSUED FOR CONSTRUCTION	CHC	CHC									
A	18.12.23	AS CONSTRUCTED	JM	HS									
					DESIGN CHECK	APPROVED MARK WYER RPEQ 16191							
							FOR & ON BEHALF OF EGIS CONSULTING PTY LTD						

M.B.R.C. REF No. DA/2021/0413

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 15-01-2024
 SIGNED: Mark Wyer DATE: _____
 MARK WYER RPEQ 16191

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

- LEGEND**
- PROPOSED CONCRETE SLEEPER RETAINING WALL REFER REFERENCE TYPICAL DETAILS ON DRG No. 201
 - PROPOSED BARRIER KERB & CHANNEL TYPE B1
 - PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
 - PROPOSED BARRIER KERB TYPE B2
 - PROPOSED SPLITTER ISLAND
 - PROPOSED CHANNEL (600mm)
 - 8.0- EXISTING SURFACE CONTOUR (0.5m INTERVALS)
 - 8.0- DESIGN SURFACE CONTOUR (0.1m INTERVALS)
 - SWD --- PROPOSED STORMWATER DRAINAGE
 - S --- PROPOSED SEWERAGE RETICULATION
 - ST --- PROPOSED SEWERAGE RETICULATION (TRUNK)
 - W --- PROPOSED WATER RETICULATION
 - SWD --- EXISTING STORMWATER DRAINAGE
 - ST --- EXISTING TRUNK SEWERAGE RETICULATION
 - S --- EXISTING SEWERAGE RETICULATION
 - W --- 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
 - STAMPED ASPHALT THRESHOLD TREATMENT
 - (P) --- PROPOSED RAMP IN ACCORDANCE WITH MBRC STANDARD DRAWING PC-2101
 - PROPOSED BOLLARDS. REFER LANDSCAPE DRAWINGS

NOTE:
 LOCATION OF DRIVEWAYS FOR LOTS 84 AND 127 ARE DEPICTED ON THE PLAN OF THE DEVELOPMENT WHICH IS PROVIDED TO THE LOT OWNER (BUYER). THE LOT OWNER IS TO SUBMIT A DESIGN APPLICATION VIA PEET PRIOR TO CONSTRUCTION AT WHICH POINT PEET ARE TO CHECK AND APPROVE DESIGN.

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.

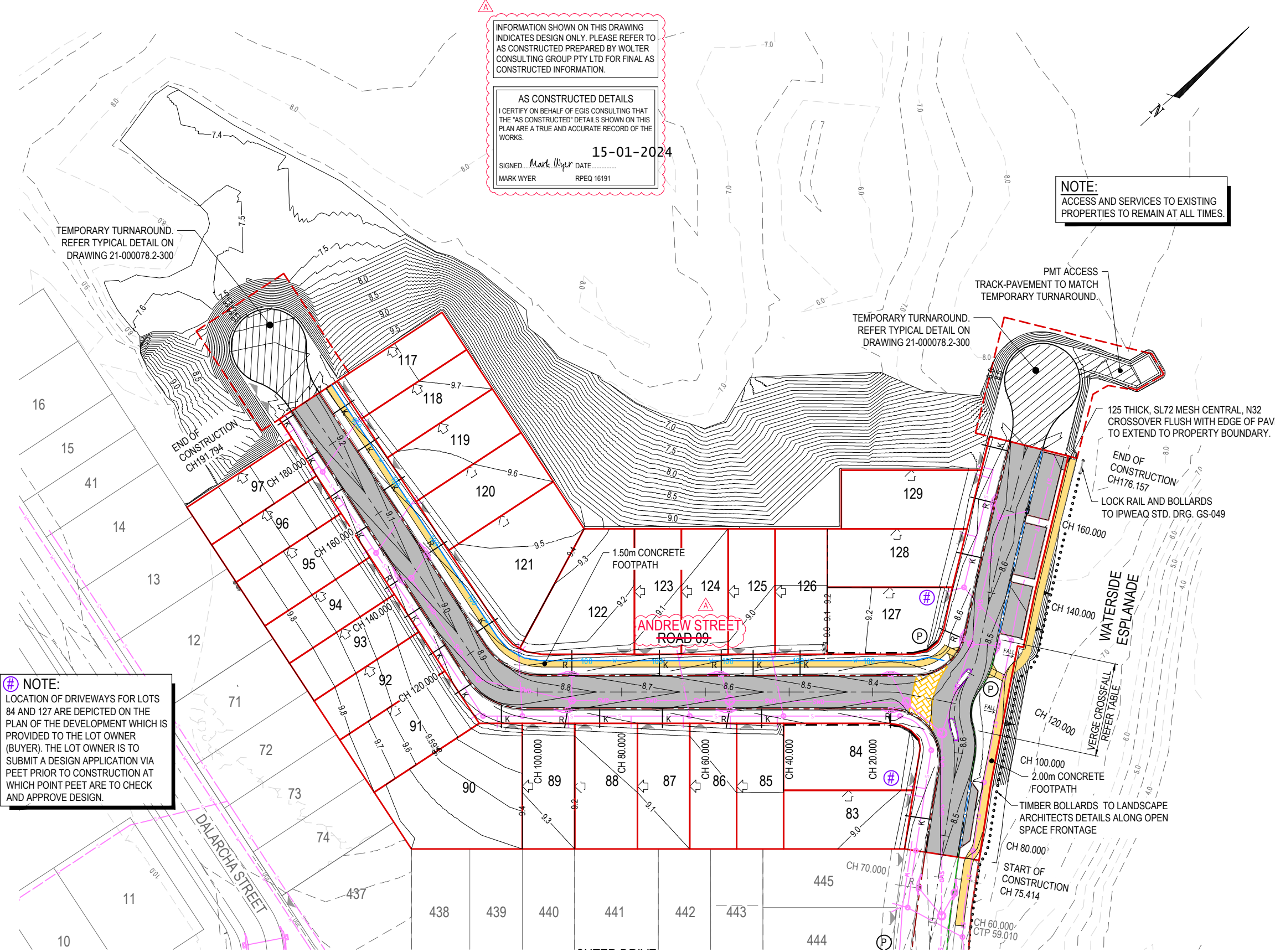
CAUTION !!
UNDERGROUND TELECOMMS CABLES
 UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT SUPPLIER FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

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

WATERSIDE ESPLANADE VERGE CROSSFALL TABLE

ROAD CHAINAGES	START OF CROSSFALL	CONSTANT CROSSFALL	END OF CROSSFALL
110.000-115.000	2.5%	-	-2.5%
115.000-130.000	-	-2.5%	-
130.000-135.000	-2.5%	-	2.5%

- ROADWORKS AND DRAINAGE NOTES**
- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT MBRC STANDARD DRAWINGS AND METHODS.
 - LEVELS FOR KERB AND CHANNELLING 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 MBRC 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



REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	18.10.22	FINAL SURFACE LEVEL AND STORMWATER PIPES AMENDED. TABLE ADDED	EGC	CHC		
3	20.01.23	FINAL SURFACE AND STORMWATER LAYOUT AMENDED. NOTE ADDED.	CHC	HS		
4	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS	DESIGN CHECK	
A	18.12.23	AS CONSTRUCTED	JM	HS		

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE: 1:500, 1:1000

CLIENT: CABOOLTURE SYNDICATE LTD

PEET

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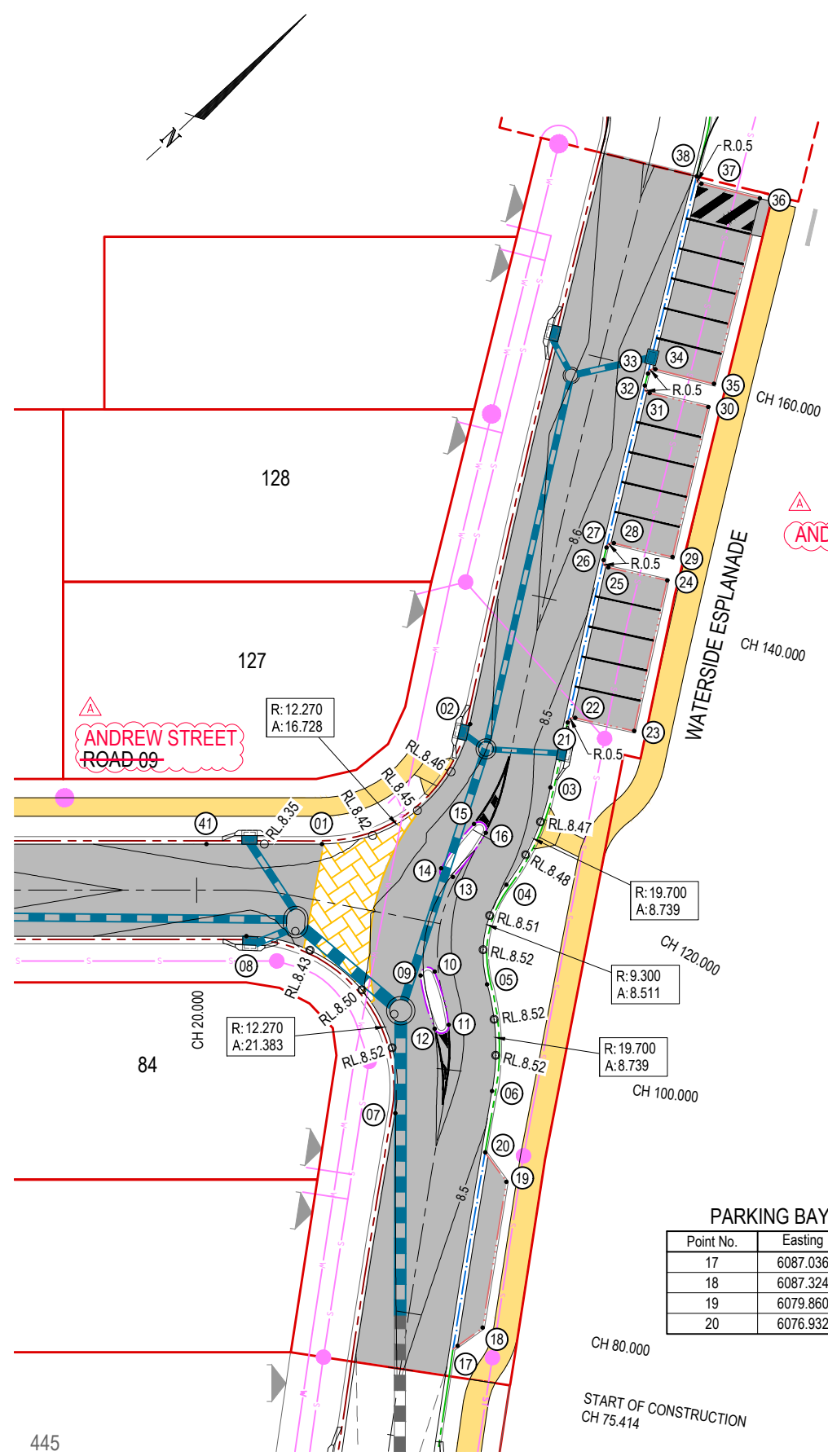
PROJECT: RIVERBANK ESTATE STAGE 2B

DRAWING TITLE: ROADWORKS LAYOUT PLAN

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PROJECT No: 21-000078.2
 DRAWING No: 310
 REVISION: A

M.B.R.C. REF No. DA/2021/0413

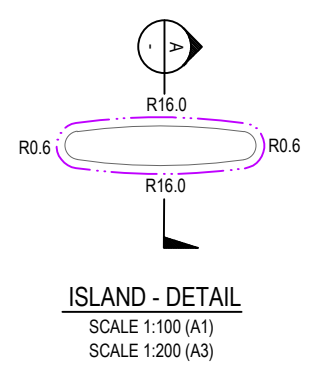


PARKING BAY SETOUT TABLE

Point No.	Easting	Northing	Level
21	6055.658	3440.103	8.415
22	6055.775	3440.803	8.443
23	6059.774	3443.629	8.468
24	6052.561	3453.838	8.531
25	6048.562	3451.012	8.507
26	6047.863	3451.135	8.483
27	6047.275	3451.981	8.488
28	6047.404	3452.679	8.516
29	6051.449	3455.439	8.541
30	6044.402	3465.764	8.552
31	6040.358	3463.004	8.527
32	6039.661	3463.138	8.499
33	6039.104	3463.968	8.494
34	6039.242	3464.662	8.518
35	6043.316	3467.384	8.542
36	6034.706	3480.272	8.613
37	6030.632	3477.551	8.589
38	6029.938	3477.689	8.563

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.

- LEGEND**
- PROPOSED BARRIER KERB & CHANNEL TYPE B1
 - PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
 - PROPOSED BARRIER KERB TYPE B2
 - PROPOSED SPLITTER ISLAND
 - PROPOSED CHANNEL (600mm)
 - 9.1 DESIGN SURFACE CONTOUR (0.1m INTERVALS)
 - 03 SETOUT POINT
 - PROPOSED AREA OF ASPHALT SURFACING
 - PROPOSED FOOTPATH
 - STAMPED ASPHALT THRESHOLD TREATMENT
 - PROPOSED STORMWATER DRAINAGE
 - PROPOSED SEWERAGE RETICULATION
 - PROPOSED SEWERAGE RETICULATION (TRUNK)
 - PROPOSED WATER RETICULATION



ANDREW STREET ROAD 09 AND WATERSIDE ESPLANADE - INTERSECTION SETOUT TABLE

Point No	Easting	Northing	Level
01	6049.531	3418.720	8.369
02	6050.413	3434.157	8.445
03	6058.605	3435.511	8.457
04	6062.036	3427.552	8.491
05	6066.961	3420.974	8.514
06	6073.633	3415.441	8.505
07	6069.673	3408.417	8.498
08	6050.910	3409.154	8.338
41	6043.220	3411.789	8.354

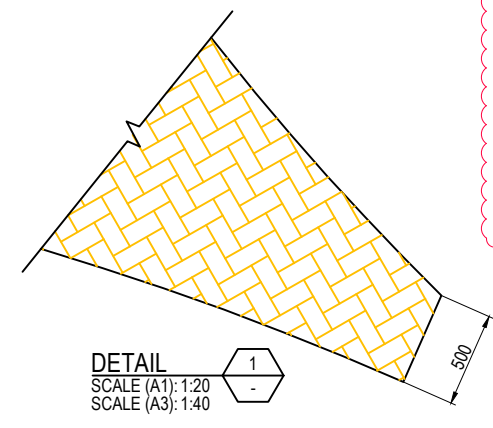
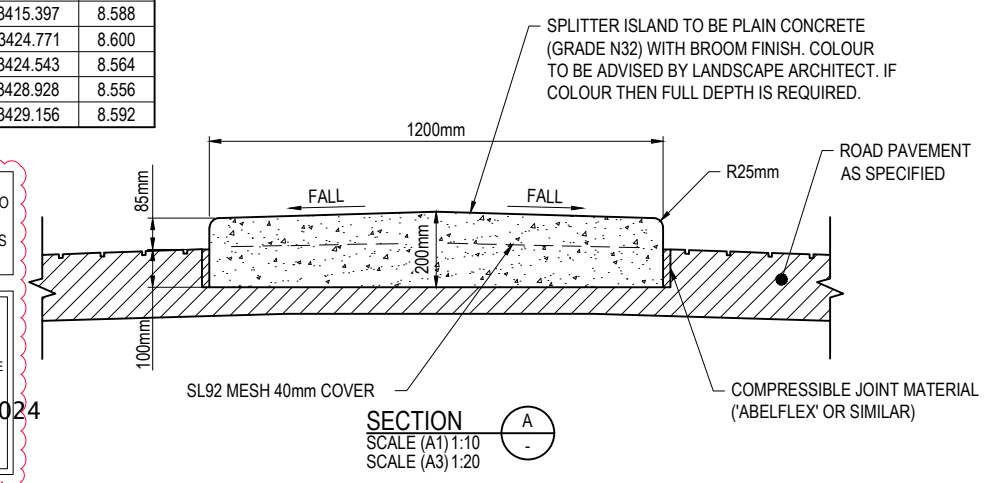
ISLAND - SETOUT TABLE

Point No.	Easting	Northing	Level
09	6062.793	3417.453	8.580
10	6063.340	3418.508	8.615
11	6067.306	3416.452	8.623
12	6066.759	3415.397	8.588
13	6058.650	3424.771	8.600
14	6057.484	3424.543	8.564
15	6056.627	3428.928	8.556
16	6057.793	3429.156	8.592

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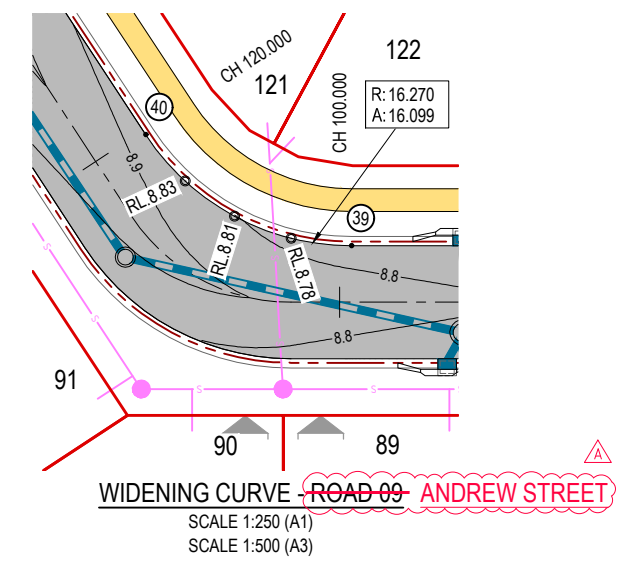
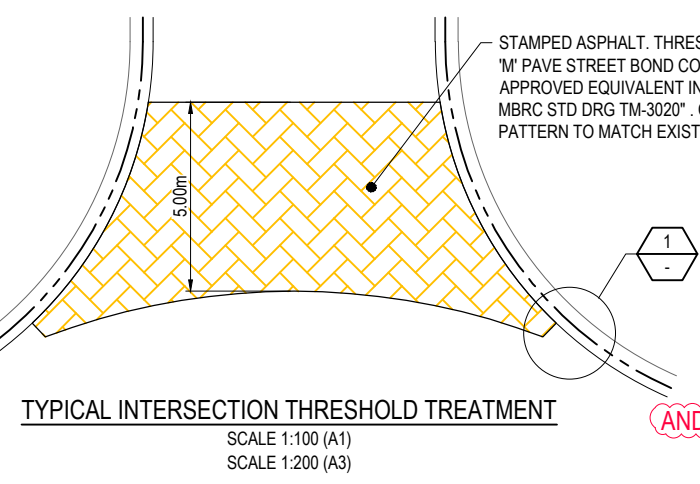
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15-01-2024
 SIGNED: Mark Wyrer DATE: RPEQ 16191
 MARK WYER



PARKING BAY SETOUT TABLE

Point No.	Easting	Northing	Level
17	6087.036	3399.434	8.395
18	6087.324	3401.944	8.413
19	6079.860	3411.340	8.473
20	6076.932	3411.676	8.449



ANDREW STREET ROAD 09 WIDENING CURVE - SETOUT TABLE

Point No.	Easting	Northing	Level
39	5989.361	3352.648	8.754
40	5974.782	3347.534	8.856

ANDREW STREET ROAD 09 AND WATERSIDE ESPLANADE - INTERSECTION
 SCALE 1:250 (A1)
 SCALE 1:500 (A3)

TYPICAL INTERSECTION THRESHOLD TREATMENT
 SCALE 1:100 (A1)
 SCALE 1:200 (A3)

ANDREW STREET ROAD 09 WIDENING CURVE - SETOUT TABLE

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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	01.11.22	INTERSECTION TABLE AND STORMWATER NETWORK AMENDED	CHC	CHC		
3	20.01.23	STORMWATER LAYOUT AMENDED	CHC	HS		
4	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS		
A	18.12.23	AS CONSTRUCTED	JM	HS		

AS CONSTRUCTED
 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								A3
1:100	1	0	1	2	3	4	5	A1
1:200								A3
1:250	5	0	5	10				A1
1:500								A3

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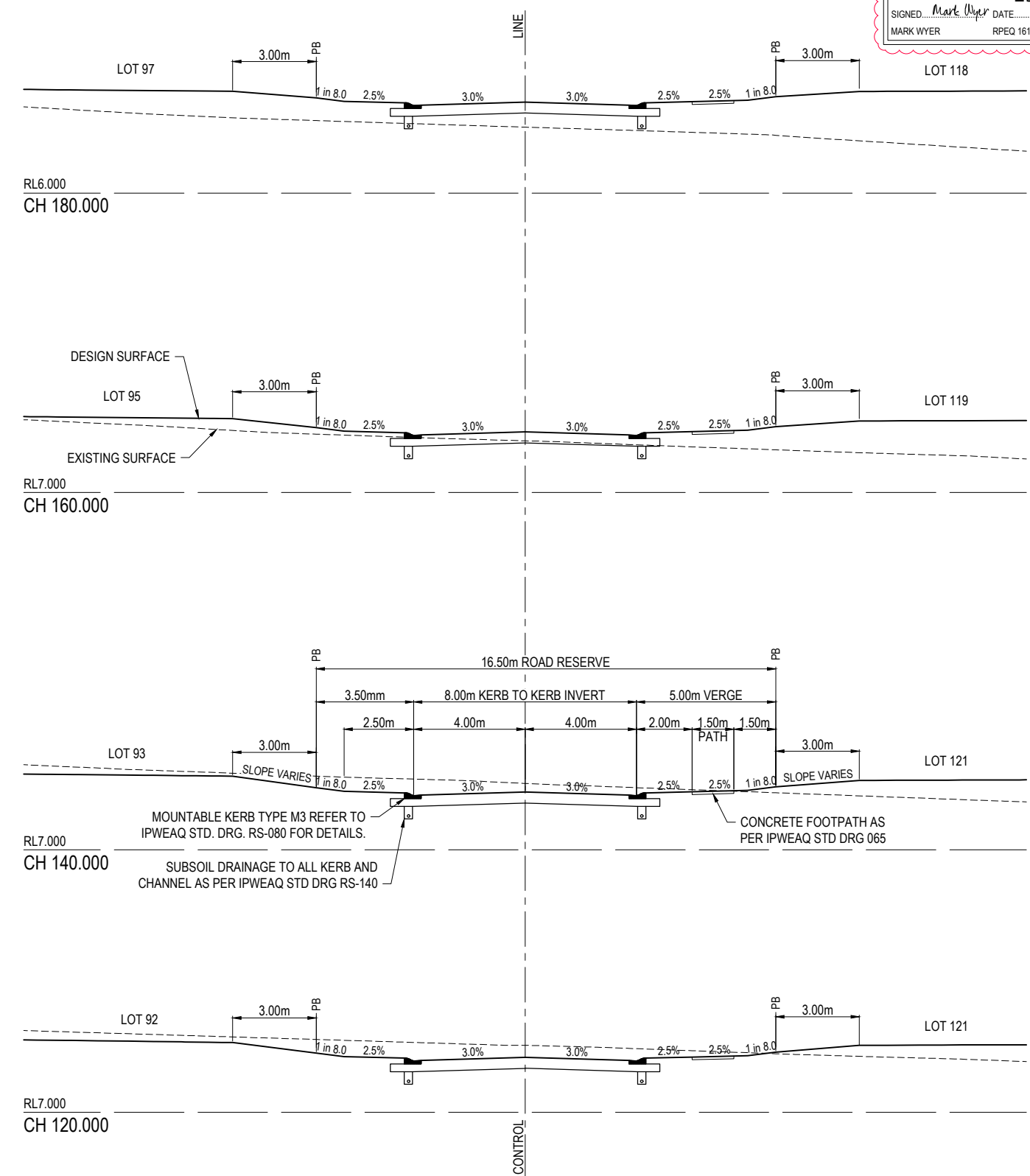
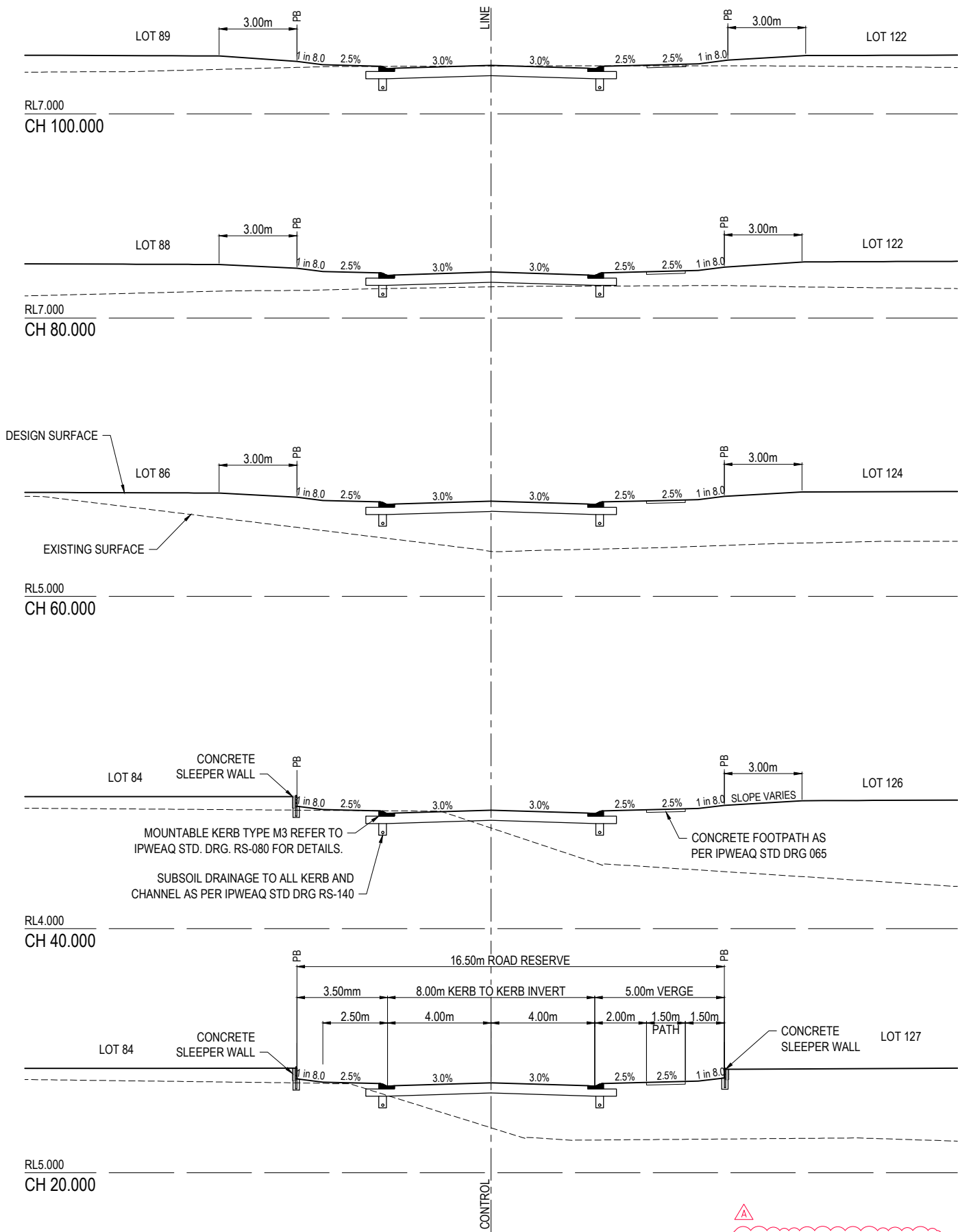
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RIVERBANK ESTATE STAGE 2B
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M.B.R.C. REF No. DA/2021/0413
 DRAWING TITLE
INTERSECTION DETAILS LAYOUT PLAN
 PROJECT No. 21-000078.2
 DRAWING No. 320
 REVISION A

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.
 SIGNED: *Mark Wyer* DATE: **15-01-2024**
 MARK WYER RPEQ 16191



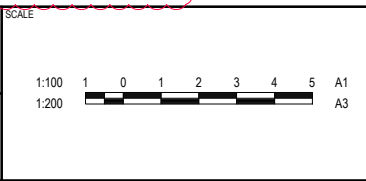
ANDREW STREET ROAD 09 - CROSS SECTIONS

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

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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		AS CONSTRUCTED
2	29.08.22	CROSS SECTIONS AMENDED	CHC	CHC		
3	21.03.23	ISSUED FOR CONSTRUCTION	CHC	CHC		
A	18.12.23	AS CONSTRUCTED	JM	HS		

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



**RIVERBANK ESTATE
 STAGE 2B**

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/2021/0413
**ANDREW STREET
 ROAD 09**
 CROSS SECTIONS

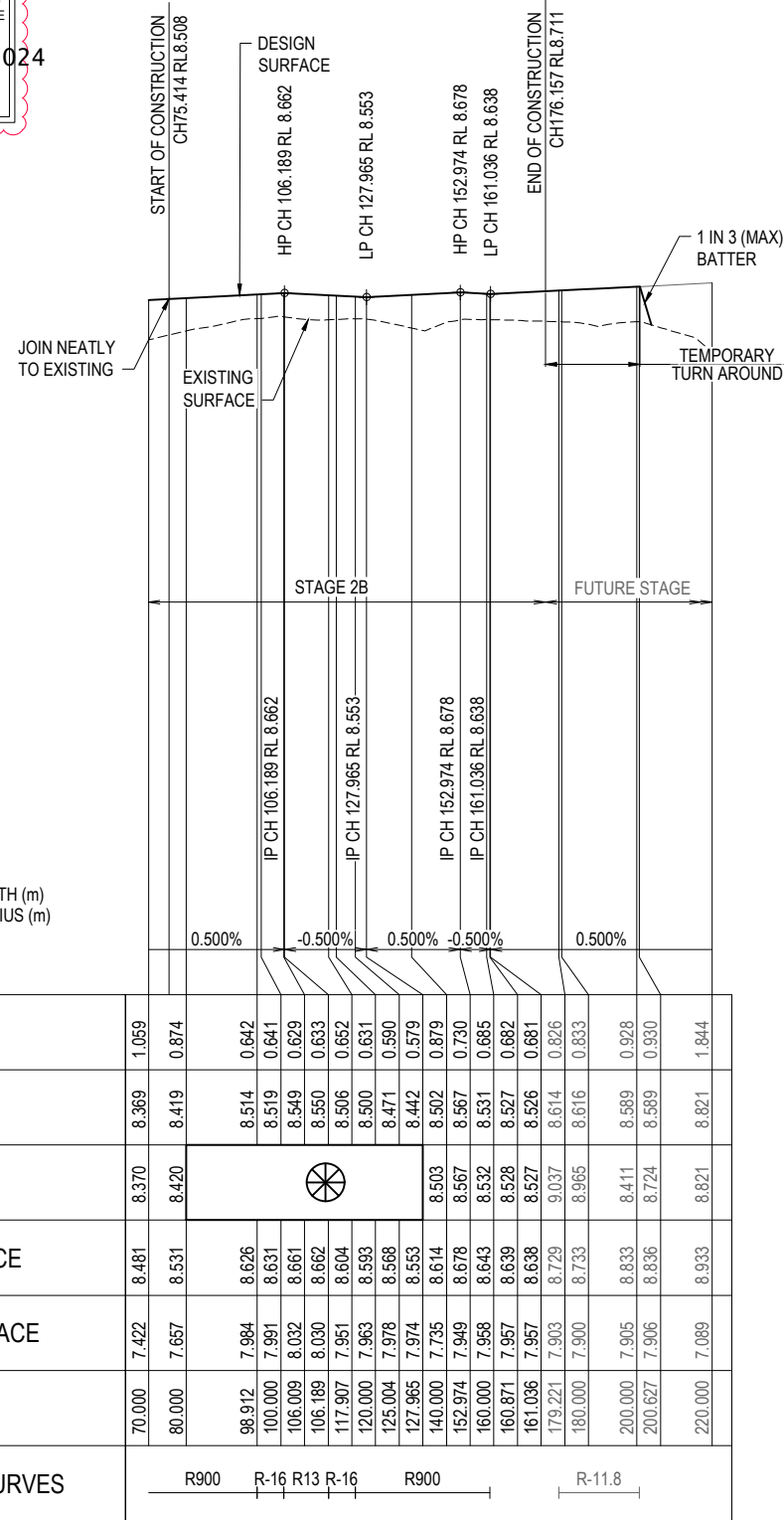
PROJECT No. 21-000078.2
 DRAWING No. 331
 REVISION A

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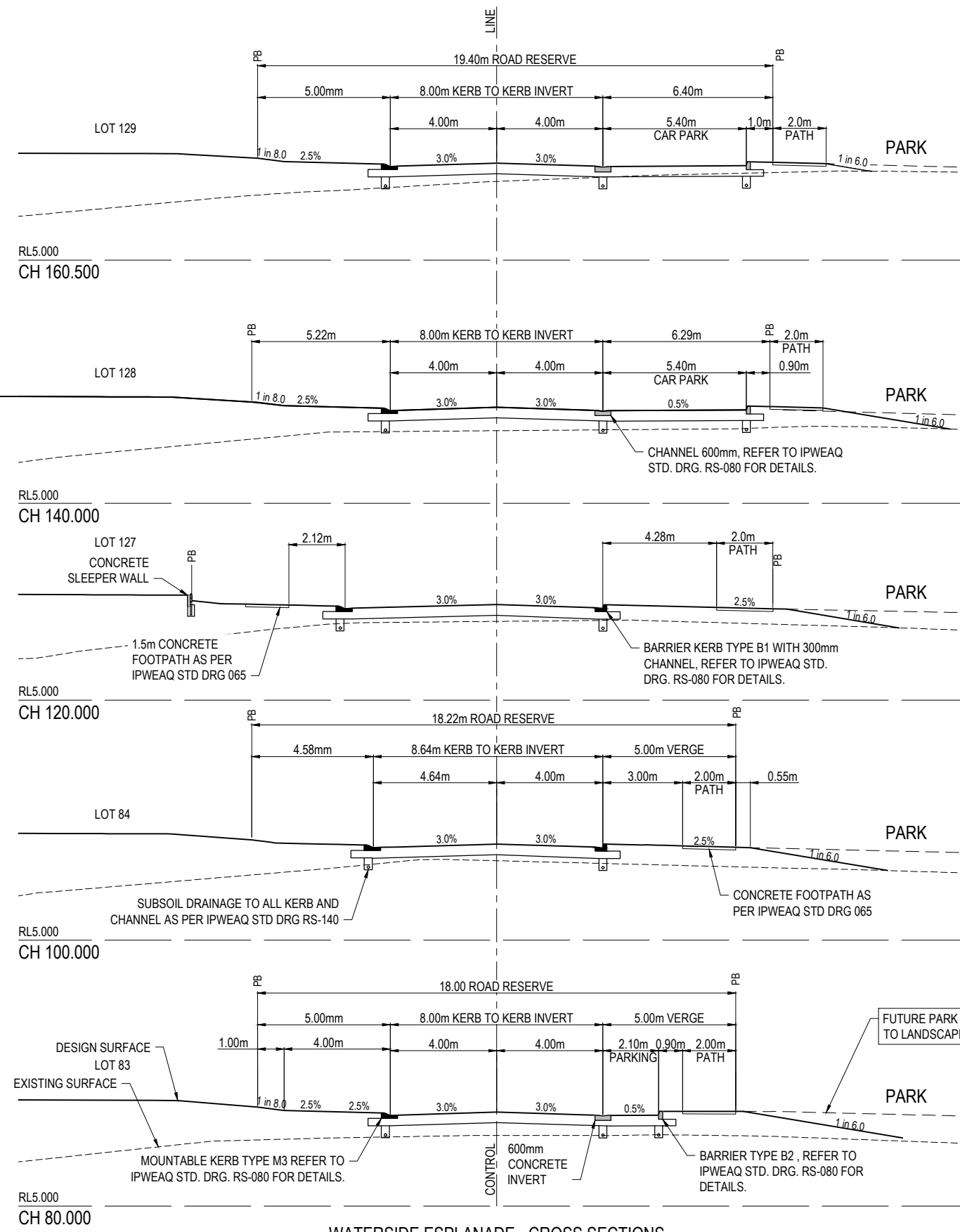
15-01-2024

SIGNED: *Mark Wyer* DATE:
MARK WYER RPEQ 16191



LONGITUDINAL SECTION - WATERSIDE ESPLANADE

HORIZ SCALE: 1000
VERTICAL SCALE: 100



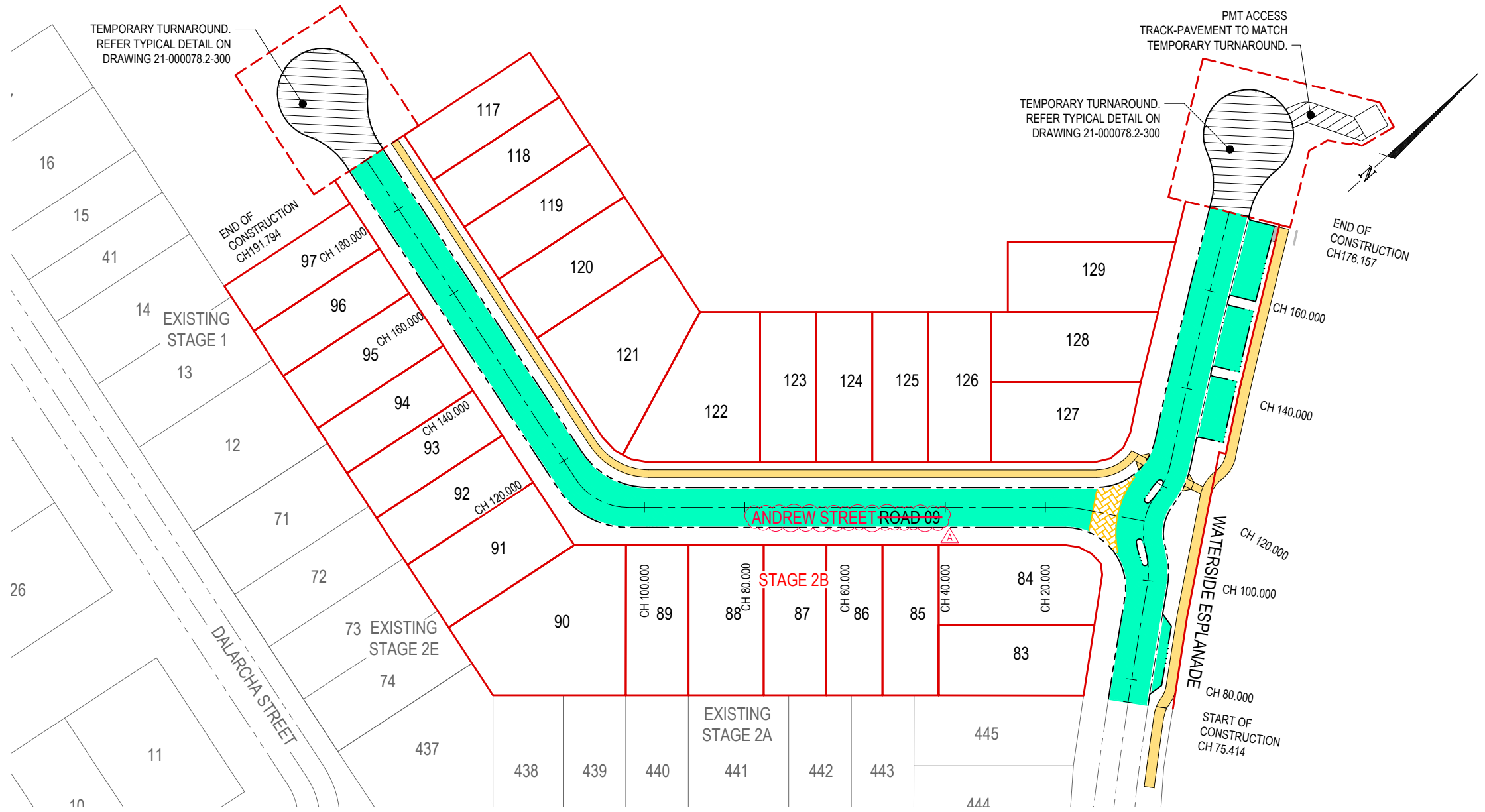
NOTE:
ROAD VERGE RHS CROSS FALL:
CH115.00 TO CH130.00 = -2.5%

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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION	
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		AS CONSTRUCTED	1:100 1:200	PEET CABOOLTURE SYNDICATE LTD	egis © 2023 Egis Consulting Pty Ltd www.egis-group.com	RIVERBANK ESTATE STAGE 2B	WATERSIDE ESPLANADE LONGITUDINAL AND CROSS SECTIONS	21-000078.2	332	A
2	29.08.22	CROSS SECTIONS AMENDED	CHC	CHC										
3	06.12.22	CROSS SECTIONS UPDATED	HS	CHC										
4	20.01.23	WATERSIDE ESPLANADE VERTICAL CURVE REMOVED	CHC	HS	DESIGN CHECK									
5	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS	APPROVED									
A	18.12.23	AS CONSTRUCTED	JM	HS		MARK WYER RPEQ 16191								

M.B.R.C. REF No. DA/2021/0413

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



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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)
ROAD 09 CH0.000 - CH191.794		3*	3 x 10 ⁴	ACCESS STREET	40	130	100	330	600
WATERSIDE ESPLANADE CH75.414-CH176.157		3*	2.5 x 10 ⁵	RESIDENTIAL COLLECTOR (MINOR)	40	130	100	330	600

* ASSUMED SUBGRADE CBR

AS CONSTRUCTED PAVEMENT DESIGN

ROAD	COLOURS	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)
ANDREW STREET CH0.000 - CH10		4.5	8 x 10 ⁴	ACCESS STREET	40	5	100	110	150	405
ANDREW STREET CH10 - CH60		4.5	8 x 10 ⁴	ACCESS STREET	30	5	100	100	110	345
ANDREW STREET CH60 - CH180		5	8 x 10 ⁴	ACCESS STREET	30	5	100	100	100	335
ANDREW STREET CH180 - CH191.800		4.5	8 x 10 ⁴	ACCESS STREET	30	5	100	100	110	345
WATERSIDE ESPLANADE CH75.5-CH130		4.5	2.5 x 10 ⁵	RESIDENTIAL COLLECTOR (MINOR)	40	5	100	110	150	405
WATERSIDE ESPLANADE CH130-CH176		5	2.5 x 10 ⁵	RESIDENTIAL COLLECTOR (MINOR)	40	5	100	100	130	375

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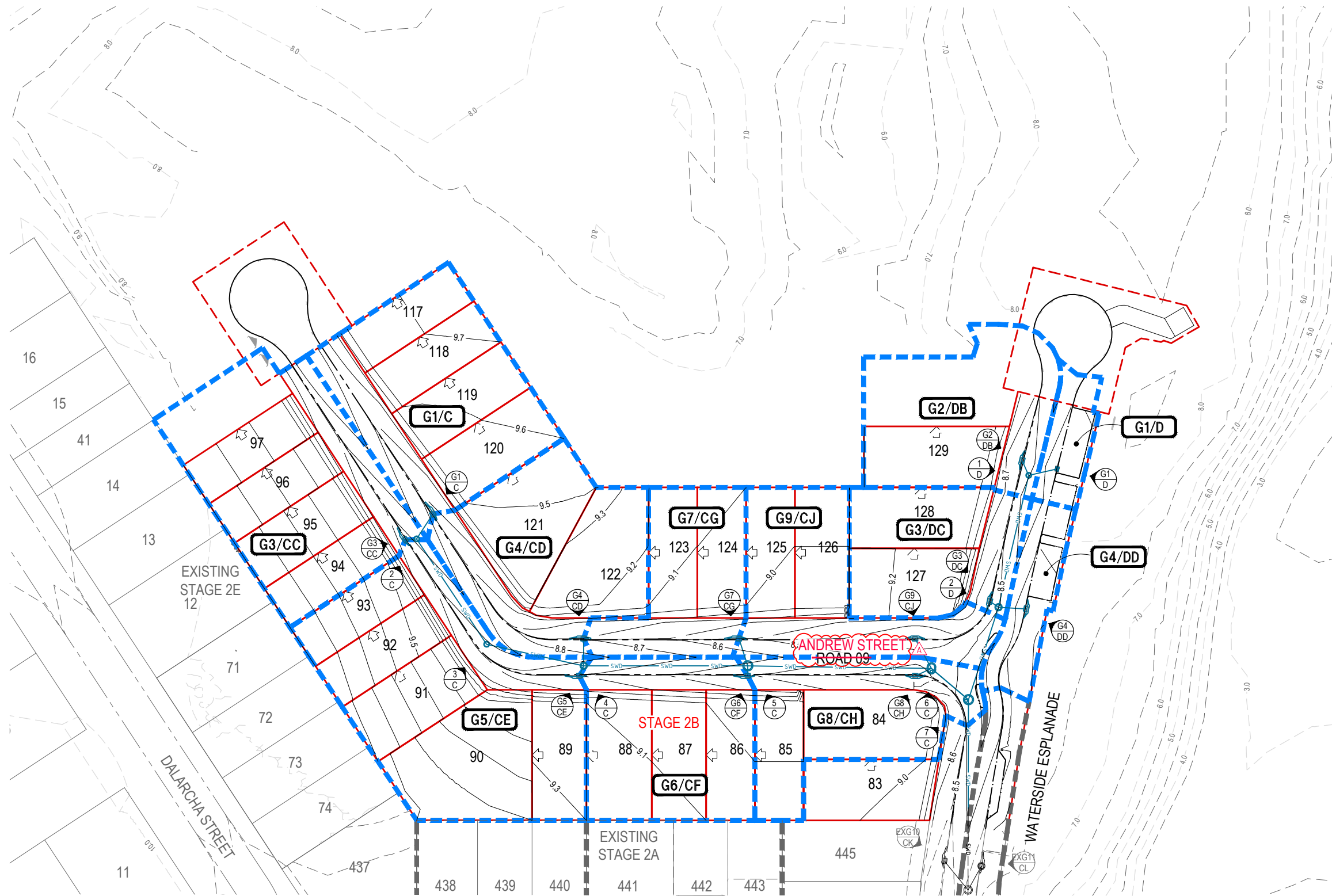
LEGEND

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

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 (5mm THICK) IS TO BE PLACED UNDER ALL ASPHALT SURFACE COURSES
- INCREASE A.C. THICKNESS BY 7mm IN AREAS OF STENCILLED ASPHALT.
- SUB-BASE AND BLANKET MATERIALS TO BE PLACED 500mm BEHIND BACK OF KERB.

<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>18.05.22</td> <td>ISSUED FOR APPROVAL</td> <td>CHC</td> <td>CHC</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>21.03.23</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CHC</td> <td>CHC</td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>18.12.23</td> <td>AS CONSTRUCTED</td> <td>JM</td> <td>HS</td> <td></td> <td></td> </tr> </tbody> </table>	REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC			2	21.03.23	ISSUED FOR CONSTRUCTION	CHC	CHC			A	18.12.23	AS CONSTRUCTED	JM	HS			<p>AS CONSTRUCTED</p> <p>APPROVED: MARK WYER RPEQ 16191</p> <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 TITLE</p> <p>RIVERBANK ESTATE STAGE 2B</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/2021/0413</p> <p>PAVEMENT LAYOUT PLAN</p> <p>PROJECT No. 21-000078.2 DRAWING No. 360 REVISION A</p>
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS																												
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC																														
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LEGEND

- G10/CK CATCHMENT NAME
- PROPOSED CATCHMENT BOUNDARY
- EXISTING CATCHMENT BOUNDARY
- PROPOSED STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- EXISTING SURFACE CONTOUR (0.5m INTERVALS)
- DESIGN SURFACE CONTOUR (0.1m INTERVALS)
- PROPOSED BARRIER KERB & CHANNEL TYPE B1
- PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
- PROPOSED BARRIER KERB TYPE B2
- PROPOSED SPLITTER ISLAND
- PROPOSED CHANNEL (600mm)

CATCHMENT TABLE

CATCHMENT NAME	CATCHMENT AREA (Ha)
G1/C	0.188
G1/D	0.031
G2/DB	0.142
G3/CC	0.208
G3/DC	0.115
G4/CD	0.169
G4/DD	0.047
G5/CE	0.270
G6/CF	0.144
G7/CG	0.099
G8/CH	0.130
G9/CJ	0.128

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 SIGNED: *Mark Wyer* DATE: 15-01-2024
 MARK WYER RPEQ 16191

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M.B.R.C. REF No. DA/2021/0413

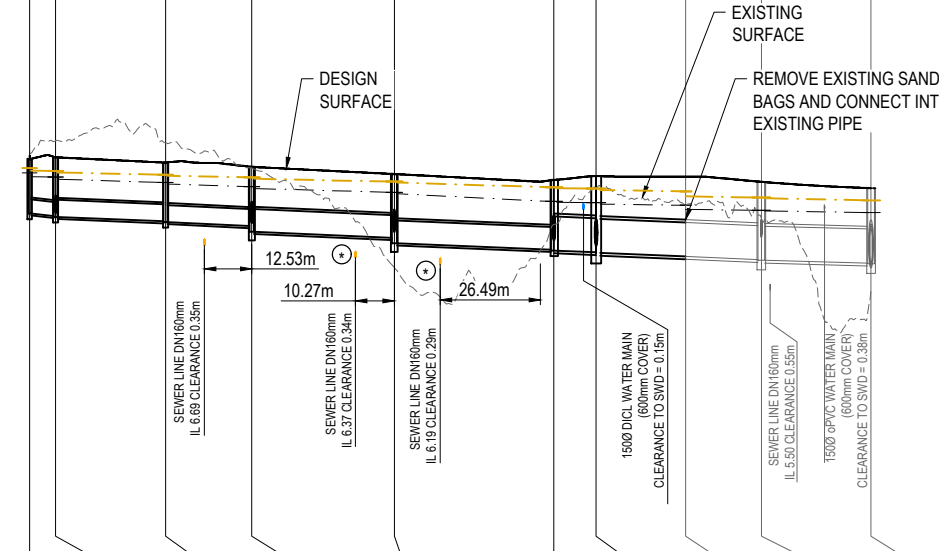
STRUCTURE NAME	G1/C	2/C	3/C	4/C	5/C	6/C	7/C	JOIN	8/C	4/A
STRUCTURE DESCRIPTION	GULLY PIT L.L.I.; 2.4m Linel; MK&C	STD IPWEAQ MANHOLE 1050mm DIA	STD IPWEAQ MANHOLE 1050mm DIA	STD IPWEAQ MANHOLE 1200mm DIA	STD IPWEAQ MANHOLE 1350mm DIA	1500 x 600 EXTENDED MANHOLE REFER MANHOLE DETAILS	STD IPWEAQ MANHOLE 2100mm DIA REFER MANHOLE DETAILS	PIPE CONNECTION - NO MANHOLE	STD IPWEAQ MANHOLE 1500mm DIA	MANHOLE 1500mm DIA

LEGEND

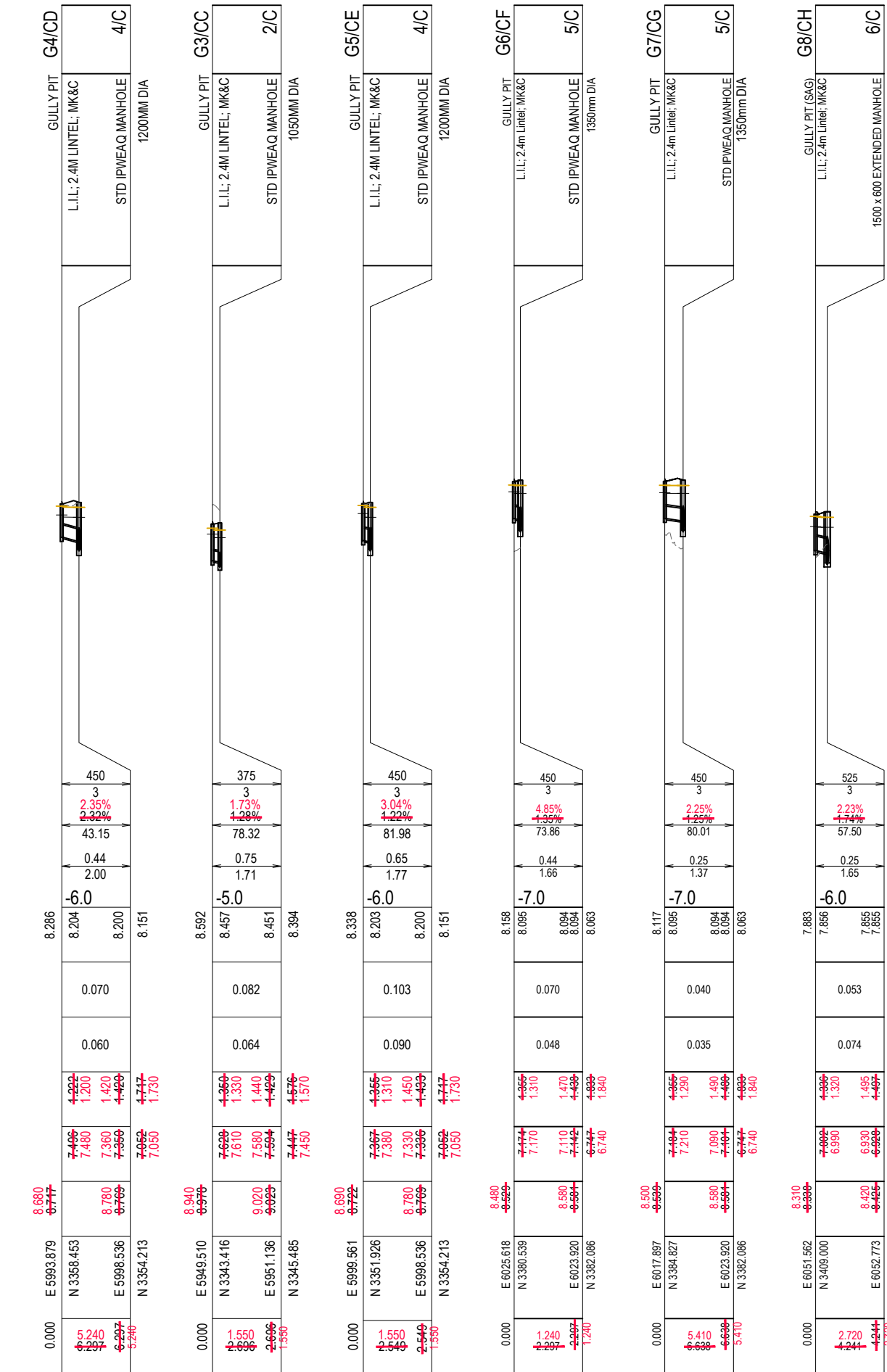
- DESIGN SURFACE
- - - EXISTING SURFACE
- - - 10% AEP HYDRAULIC GRADE LINE
- - - 1% AEP HYDRAULIC GRADE LINE

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 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 21-000078.2-440
- REFER TO DWG 21-000078.2-450 FOR STRUCTURE SETOUT.



PIPE SIZE (mm)	375	450	450	600	600	900	900	900	900	450	375	450	450	525						
PIPE CLASS (FRC)	3	3	3	3	3	3 (RCP)	3 (RCP)	3 (RCP)	3 (RCP)	3	3	3	3	3						
PIPE GRADE (%)	1.00%	0.40%	0.50%	0.41%	0.40%	0.44%	0.39%	0.25%	0.44%	1.73%	3.04%	4.85%	2.25%	2.23%						
PIPE SLOPE (1 in X)	100.53	250.00	211.55	243.54	250.15	247.84	249.60	250.00	400.00	43.15	78.32	73.86	80.01	57.50						
FULL PIPE VELOCITY (m/s)	0.69	1.00	0.98	1.15	1.52	0.83	1.03	1.02	1.11	0.44	0.65	0.66	0.25	0.25						
PART FULL VELOCITY (m/s)	1.53	1.28	1.37	1.56	1.52	1.77	1.86	1.86	1.57	2.00	1.71	1.66	1.37	1.65						
DATUM RL	-7.0									-6.0				-6.0						
H.G.L IN PIPE & W.S.E IN STRUCTURE	8.614 8.513	8.500 8.502	8.444 8.354	8.318 8.250	8.200 8.094	8.063 7.855	7.833 7.824	7.785 7.754	7.647 7.563	7.508	8.286 8.204	8.151 8.451	8.592 8.457	8.338 8.203	8.151 8.094	8.063 7.883	7.856 7.855	7.833		
PIPE FLOW 10% AEP (Cumecs)	0.077	0.159	0.156	0.326	0.430	0.526	0.657	0.651	0.708	0.070	0.082	0.070	0.040	0.053						
PIPE FLOW 1% AEP (Cumecs)	0.068	0.132	0.127	0.275	0.345	0.486	0.727	0.716	0.809	0.060	0.064	0.048	0.035	0.074						
DEPTH TO INVERT	1.430 1.430	1.550 1.570	1.570 1.570	1.570 1.570	1.680 1.680	1.845 1.865	2.010 2.010	2.030 2.030	2.076 2.076	1.982 2.003	1.920 1.200	1.330 1.440	1.450 1.430	1.490 1.480	1.495 1.495	1.320 1.320	1.495 1.495	1.865		
INVERT LEVEL OF DRAIN	7.520 7.520	7.470 7.460	7.440 7.460	7.330 7.330	7.310 7.310	7.200 7.200	7.060 7.060	6.990 6.990	6.900 6.900	6.227 6.207	7.460 7.480	7.620 7.610	7.610 7.590	7.110 7.110	7.090 7.090	6.990 6.990	6.990 6.990	6.990		
DESIGN SURFACE LEVEL	8.950 8.950	9.020 8.950	8.900 8.900	8.780 8.760	8.580 8.580	8.420 8.420	8.530 8.530	8.510 8.510	8.360 8.360	8.209 8.209	8.680 8.770	8.780 8.760	8.480 8.480	8.500 8.500	8.310 8.310	8.420 8.420	8.420 8.420	8.420		
SETOUT COORDINATES	E 5949.427 N 3352.132	E 5951.136 N 3345.485	E 5979.959 N 3341.071	E 5998.536 N 3354.213	E 6023.920 N 3382.086	E 6052.773 N 3412.894	E 6063.830 N 3414.353	E 6081.330 N 3398.353	E 6096.091 N 3394.958	E 6116.925 N 3354.656	E 5993.879 N 3358.453	E 5995.536 N 3354.213	E 5999.561 N 3351.926	E 5998.536 N 3354.213	E 6025.618 N 3380.539	E 6017.897 N 3384.827	E 6023.920 N 3382.086	E 6051.562 N 3409.000	E 6052.773 N 3412.894	
RUNNING CHAINAGE	44.984	5.790 6.900	11.724 10.660	21.780 10.660	36.380 47.026	40.780 42.236	49.720 87.300	59.720 116.300	69.720 136.826	79.720 157.240	89.720 177.624	0.000 5.240	0.000 1.550	0.000 2.540	0.000 1.240	0.000 5.410	0.000 6.630	0.000 1.240	0.000 2.720	0.000 2.720



SEWER BRIDGING:
REFER TO DRAWING 21-000078.2- 511 FOR SEWER BRIDGING DETAIL.

NOTE:
REFER TYPICAL PIPE CONNECTION TO STORMWATER STRUCTURE DETAIL ON DRG 420.

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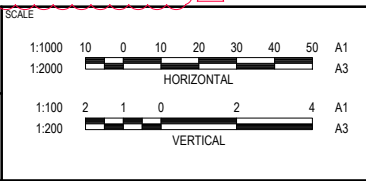
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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	18.10.22	MANHOLES AND PIPES SIZE AMENDED	EGC	CHC		
3	06.12.22	LONGITUDINAL SECTION LINE C AMENDED	CHC	CHC		
4	20.01.23	STORMWATER LINES C, CF, CG AND CH AMENDED	CHC	HS	DESIGN CHECK	
5	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS		
A	18.12.23	AS CONSTRUCTED	JM	HS		

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



RIVERBANK ESTATE STAGE 2B

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DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-000078.2	420	A

STRUCTURE NAME	G9/CJ	6/C
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.L.I.; 2.4m Lintel; MK&C	MANHOLE

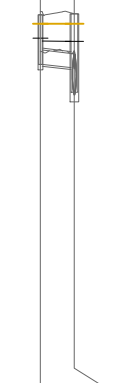
- LEGEND**
- DESIGN SURFACE
 - - - EXISTING SURFACE
 - - - 10% AEP HYDRAULIC GRADE LINE
 - - - 1% AEP HYDRAULIC GRADE LINE

- 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 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 21-000078.1-440
 - REFER TO DWG 21-000078.1-450 FOR STRUCTURE SETOUT.

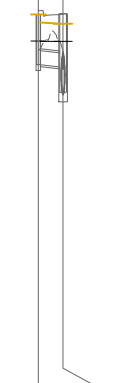
PIPE SIZE (mm)	525
PIPE CLASS (FRC)	3
PIPE GRADE (%)	1.61%
PIPE SLOPE (1 in X)	71.03
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.52
DATUM RL	-7.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.883
PIPE FLOW 10% AEP (Cumecs)	0.053
PIPE FLOW 1% AEP (Cumecs)	0.086
DEPTH TO INVERT	1.330
INVERT LEVEL OF DRAIN	6.994
DESIGN SURFACE LEVEL	8.320
SETOUT COORDINATES	E 6045.157 N 3414.760
RUNNING CHAINAGE	0.000



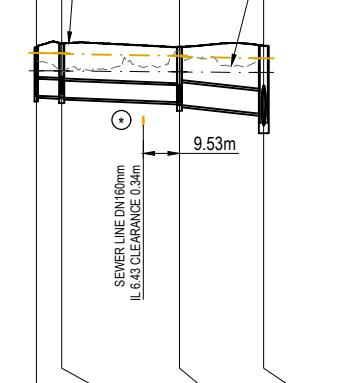
STRUCTURE NAME	G10/CK	8/C
STRUCTURE DESCRIPTION	GULLY PIT L.L.I.; 2.4m Lintel; MK&C	STD IPWEAQ MANHOLE 1800MM DIA
PIPE SIZE (mm)	375	
PIPE CLASS (FRC)	3	
PIPE GRADE (%)	0.98%	
PIPE SLOPE (1 in X)	102.01	
FULL PIPE VELOCITY (m/s)	0.44	
PART FULL VELOCITY (m/s)	1.35	
DATUM RL	-7.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.705	
PIPE FLOW 10% AEP (Cumecs)	0.049	
PIPE FLOW 1% AEP (Cumecs)	0.080	
DEPTH TO INVERT	1.313	
INVERT LEVEL OF DRAIN	7.040	
DESIGN SURFACE LEVEL	8.353	
SETOUT COORDINATES	E 6087.466 N 3385.340	
RUNNING CHAINAGE	0.000	



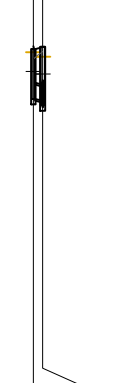
STRUCTURE NAME	G11/CL	8/C
STRUCTURE DESCRIPTION	GULLY PIT L.L.I.; 2.4m Lintel; MK&C	STD IPWEAQ MANHOLE 1800MM DIA
PIPE SIZE (mm)	375	
PIPE CLASS (FRC)	3	
PIPE GRADE (%)	0.97%	
PIPE SLOPE (1 in X)	103.42	
FULL PIPE VELOCITY (m/s)	0.13	
PART FULL VELOCITY (m/s)	0.95	
DATUM RL	-7.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.625	
PIPE FLOW 10% AEP (Cumecs)	0.014	
PIPE FLOW 1% AEP (Cumecs)	0.026	
DEPTH TO INVERT	1.325	
INVERT LEVEL OF DRAIN	7.029	
DESIGN SURFACE LEVEL	8.354	
SETOUT COORDINATES	E 6094.059 N 3390.808	
RUNNING CHAINAGE	0.000	



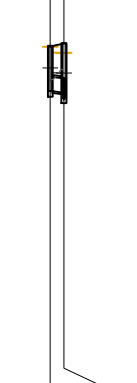
STRUCTURE NAME	G1/D	1/D	2/D	7/C
STRUCTURE DESCRIPTION	FIELD INLET 600x900 FLUSH GRATE	STD IPWEAQ MANHOLE 1050mm DIA	STD IPWEAQ MANHOLE 1050mm DIA	STD IPWEAQ MANHOLE 2100mm DIA
PIPE SIZE (mm)	450	450	600	
PIPE CLASS (FRC)	3	3	3	
PIPE GRADE (%)	0.42%	0.42%	1.01%	
PIPE SLOPE (1 in X)	249.73	250.00	100.00	
FULL PIPE VELOCITY (m/s)	0.08	0.44	0.48	
PART FULL VELOCITY (m/s)	0.65	1.06	1.74	
DATUM RL	-6.0	-6.0	-6.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.871	7.868	7.824	
PIPE FLOW 10% AEP (Cumecs)	0.013	0.070	0.135	
PIPE FLOW 1% AEP (Cumecs)	0.021	0.119	0.249	
DEPTH TO INVERT	1.320	1.450	1.560	
INVERT LEVEL OF DRAIN	7.200	7.160	6.950	
DESIGN SURFACE LEVEL	8.520	8.510	8.530	
SETOUT COORDINATES	E 6038.331 N 3465.119	E 6035.020 N 3459.287	E 6052.777 N 3433.760	
RUNNING CHAINAGE	0.000	5.740	13.200	



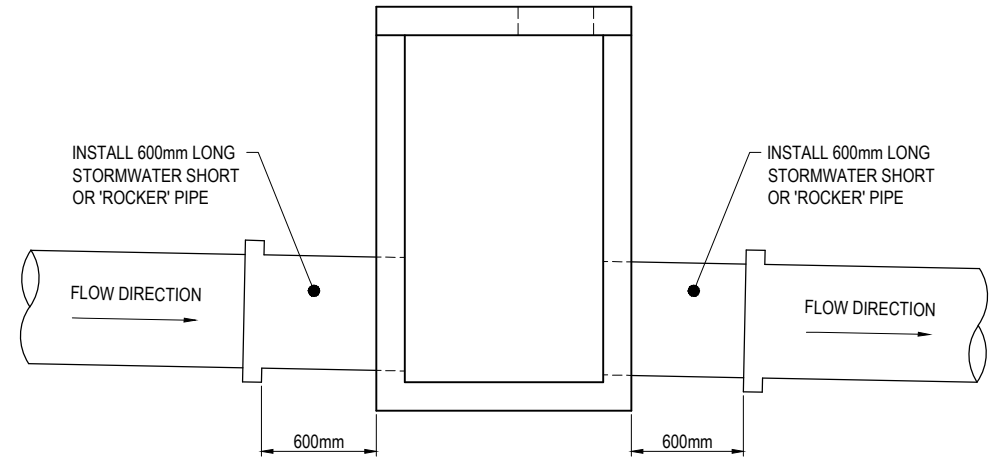
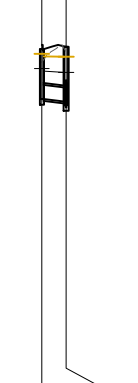
STRUCTURE NAME	G3/DC	2/D
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.L.I.; 2.4m Lintel; MK&C	STD IPWEAQ MANHOLE 1050MM DIA
PIPE SIZE (mm)	375	
PIPE CLASS (FRC)	3	
PIPE GRADE (%)	3.87%	
PIPE SLOPE (1 in X)	66.85	
FULL PIPE VELOCITY (m/s)	0.43	
PART FULL VELOCITY (m/s)	1.56	
DATUM RL	-6.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.854	
PIPE FLOW 10% AEP (Cumecs)	0.047	
PIPE FLOW 1% AEP (Cumecs)	0.215	
DEPTH TO INVERT	1.416	
INVERT LEVEL OF DRAIN	7.427	
DESIGN SURFACE LEVEL	8.420	
SETOUT COORDINATES	E 6050.374 N 3433.219	
RUNNING CHAINAGE	0.000	



STRUCTURE NAME	G2/DB	1/D
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.L.I.; 2.4m Lintel; MK&C	STD IPWEAQ MANHOLE 1050MM DIA
PIPE SIZE (mm)	375	
PIPE CLASS (FRC)	3	
PIPE GRADE (%)	2.65%	
PIPE SLOPE (1 in X)	102.68	
FULL PIPE VELOCITY (m/s)	0.52	
PART FULL VELOCITY (m/s)	1.41	
DATUM RL	-6.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.941	
PIPE FLOW 10% AEP (Cumecs)	0.058	
PIPE FLOW 1% AEP (Cumecs)	0.173	
DEPTH TO INVERT	1.496	
INVERT LEVEL OF DRAIN	7.320	
DESIGN SURFACE LEVEL	8.520	
SETOUT COORDINATES	E 6031.732 N 3460.600	
RUNNING CHAINAGE	0.000	



STRUCTURE NAME	G4/DD	2/D
STRUCTURE DESCRIPTION	GULLY PIT (SAG) L.L.I.; 2.4m Lintel; MK&C	STD IPWEAQ MANHOLE 1050MM DIA
PIPE SIZE (mm)	375	
PIPE CLASS (FRC)	3	
PIPE GRADE (%)	3.44%	
PIPE SLOPE (1 in X)	100.08	
FULL PIPE VELOCITY (m/s)	1.19	
PART FULL VELOCITY (m/s)	1.74	
DATUM RL	-7.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	7.797	
PIPE FLOW 10% AEP (Cumecs)	0.019	
PIPE FLOW 1% AEP (Cumecs)	0.064	
DEPTH TO INVERT	1.320	
INVERT LEVEL OF DRAIN	7.440	
DESIGN SURFACE LEVEL	8.390	
SETOUT COORDINATES	E 6057.335 N 3438.231	
RUNNING CHAINAGE	0.000	



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 21-000078.2-511 FOR SEWER BRIDGING DETAIL.

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.

15-01-2024
SIGNED: Mark Wyrer DATE: _____
MARK WYER RPEQ 16191

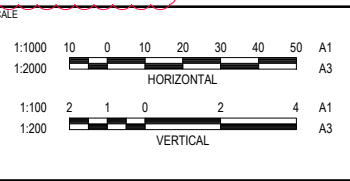
* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	18.10.22	MANHOLES AND PIPES SIZE AMENDED	EGC	CHC		
3	06.12.22	LONGITUDINAL SECTION UPDATED FOR LINE D, DB AND DC. LINE CK AND CL EXISTING LINES	HS	CHC		
4	20.01.23	STORMWATER LINE D AMENDED	CHC	HS	DESIGN CHECK	
5	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS		
A	18.12.23	AS CONSTRUCTED	JM	HS		

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 2B

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

DRAWING TITLE

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 2

PROJECT No. 21-000078.2
DRAWING No. 421
REVISION A

M.B.R.C. REF No. DA/2021/0413

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.
- ALL STORMWATER PIPES UNDER ROADWAYS AND FOOTPATHS SHALL BE FRC CLASS 3 U.N.O.
- ALL STORMWATER PIPES SHALL BE R.R.J.
- 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.
- 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.
- 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.

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

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

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 SIGNED: *Mark Wyer* DATE: 15-01-2024
 MARK WYER RPEQ 16191

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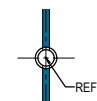
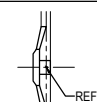
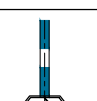
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		AS CONSTRUCTED	1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1 1:40 A3	PEET CABOOLTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 2B	STORMWATER DRAINAGE NOTES AND DETAILS	21-000078.2	440	A
2	18.10.22	(FRC) ADDED, NOTES AMENDED	EGC	CHC									
3	20.01.23	NOTES AND TABLE AMENDED	CHC	HS									
4	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS	DESIGN CHECK								
A	18.12.23	AS CONSTRUCTED	JM	HS	APPROVED	MARK WYER RPEQ 16191							
FOR & ON BEHALF OF EGIS CONSULTING PTY LTD													

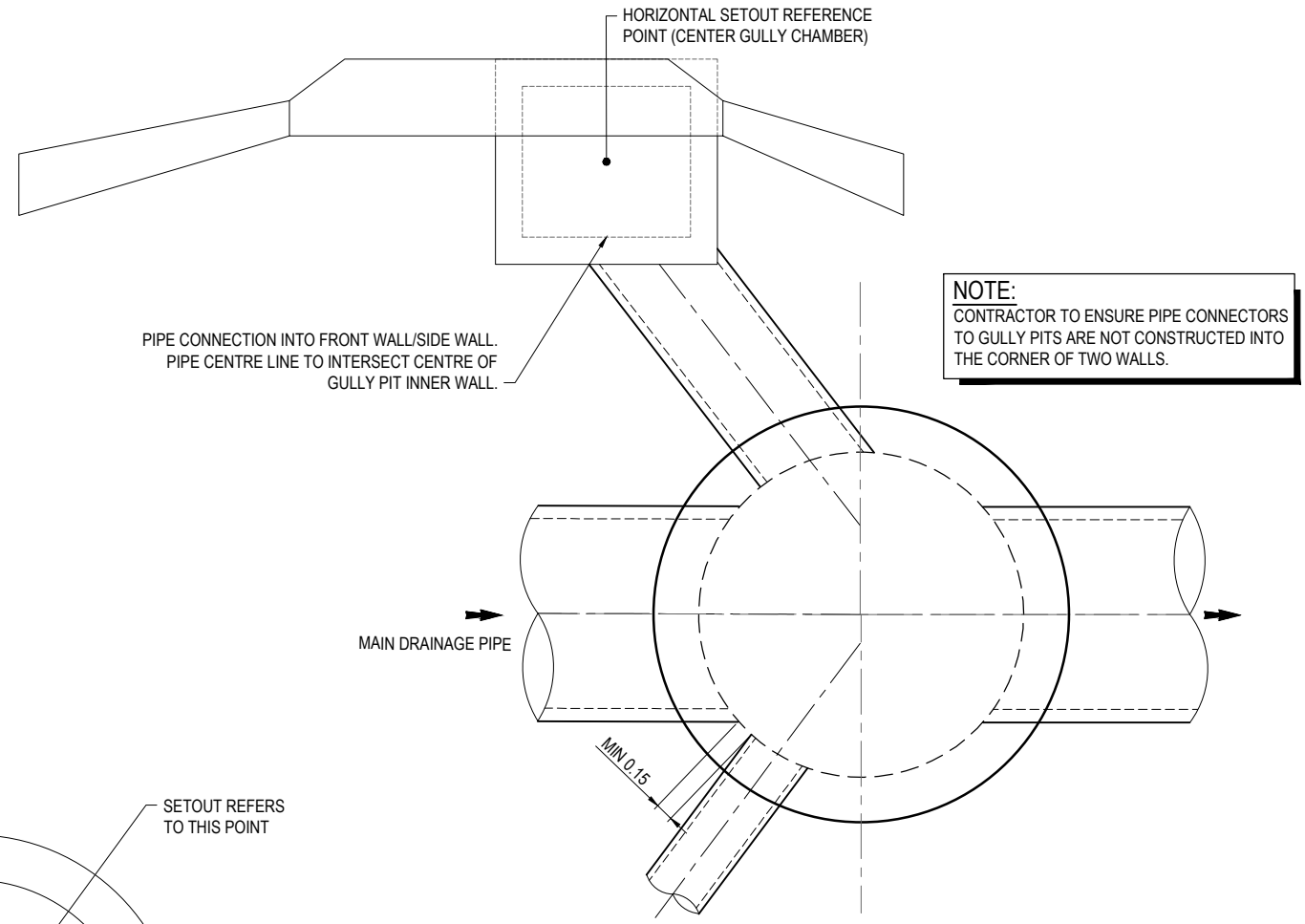
M.B.R.C. REF No. DA/2021/0413



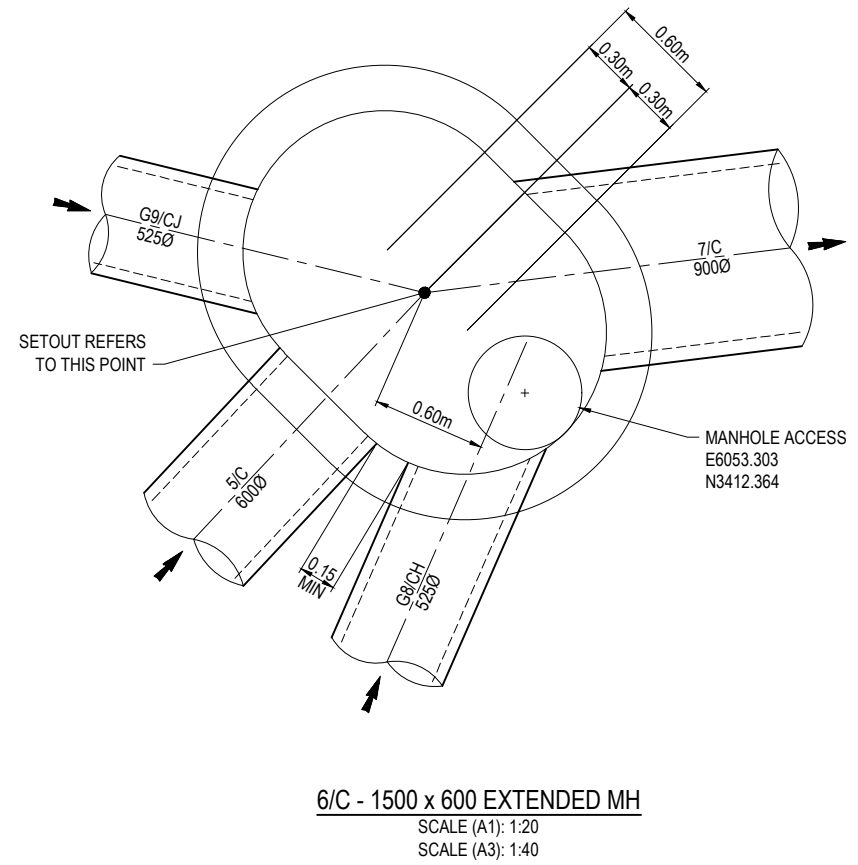
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REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

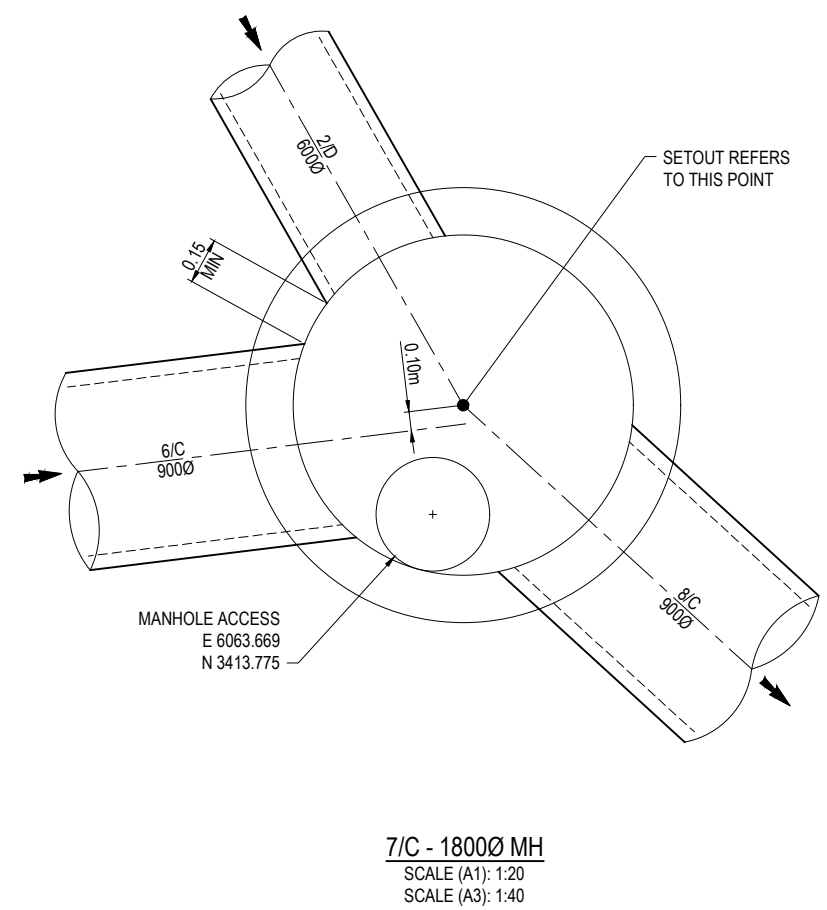
STRUCTURE TYPE	HORIZONTAL CONTROL (REFERENCE POINT LOCATION)	VERTICAL CONTROL (REFERENCE LEVEL)
MANHOLE		FINISHED SURFACE LEVEL
GULLY PIT		KERB LIP LEVEL
HEADWALL		TOP OF HEADWALL



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



6/C - 1500 x 600 EXTENDED MH
SCALE (A1): 1:20
SCALE (A3): 1:40



7/C - 1800Ø MH
SCALE (A1): 1:20
SCALE (A3): 1:40

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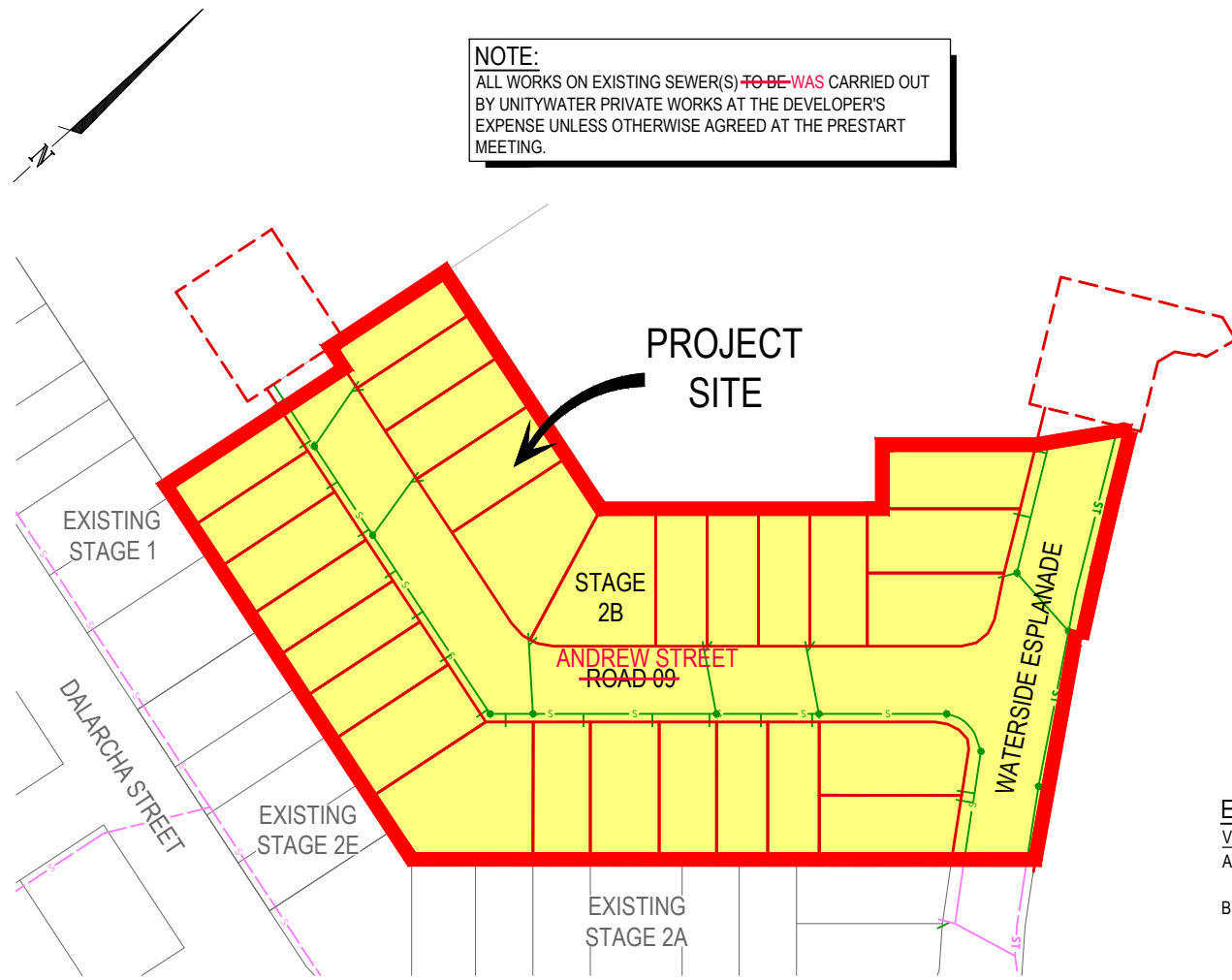
SIGNED: *Mark Wyer* DATE: 15-01-2024
MARK WYER RPEQ 16191

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M.B.R.C. REF No. DA/2021/0413

NOTE:
ALL WORKS ON EXISTING SEWER(S) ~~TO BE~~ WAS CARRIED OUT BY UNITYWATER PRIVATE WORKS AT THE DEVELOPER'S EXPENSE UNLESS OTHERWISE AGREED AT THE PRESTART MEETING.



NAME OF ESTATE		RIVERBANK ESTATE STAGE 2B	
SUBDIVIDER		PEET CABOOLTURE SYNDICATE LTD	
APPLICATION No.		-	
SP DELEGATE		**	
APPROVAL DATE			
DRAWING/PLAN No.		21-000078.2-500 - 501, 510 - 511	
No. OF LOTS		28	
AREA IN Ha.		1.550	
LENGTH OF SEWERS	DN110	67.44m	83.071m
	DN160	354.95m	332.072m
	DN250	96.66m	112.061m

DATUM LEVEL
P.S.M. 109474
RL 15.122 AHD
LOT 1006 BERRY STREET
CABOOLTURE SOUTH

EGIS CONSULTING PTY LTD
CONTACT
OLIVER HARTIGAN
TELEPHONE
(07) 3228 9000

SEWER RETICULATION NOTES

- ALL DESIGN OF GRAVITY SEWERAGE NETWORK WORKS ~~SHALL BE WERE~~ IN ACCORDANCE WITH THE GRAVITY SEWERAGE CODE OF AUSTRALIA, SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION VERSION 2.1 (SEP 2021), PART 1: PLANNING AND DESIGN AND PART 3: DRAWINGS.
- ALL CONSTRUCTION OF GRAVITY SEWERAGE NETWORK WORKS ~~SHALL BE WERE~~ IN ACCORDANCE WITH THE GRAVITY SEWERAGE CODE OF AUSTRALIA, SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION VERSION 2.1 (SP 2021), PART 2: CONSTRUCTION AND PART 3: DRAWINGS.
- ALL PRODUCTS AND MATERIALS USED IN CONSTRUCTION OF GRAVITY SEWERAGE NETWORK WORKS ~~SHALL BE WERE~~ IN ACCORDANCE WITH THE SOUTH EAST QUEENSLAND CODE ACCEPTED CIVIL INFRASTRUCTURE PRODUCTS AND MATERIAL LIST, AND THE MOST RECENT VERSION OF THE LIST IN EFFECT AT THE DATE OF THE CONSTRUCTION PRE-START MEETING.
- THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING ~~MUST HAVE HAD CONTRACT ADMINISTRATION UNDERTAKEN BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORK NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE WAS NOT PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.~~
- PRIOR TO COMMENCEMENT OF ANY VARIATION WORKS, THE CONSTRUCTOR ~~MUST FIRST HAD~~ OBTAIN APPROVAL FROM THE REGISTERED MAJOR CONNECTIONS CERTIFIER.
- ALL LIVE WORKS ASSOCIATED WITH THE SEWERAGE NETWORK ~~SHALL BE WERE~~ CARRIED OUT AT THE DEVELOPER'S COST, EITHER:
 - BY THE CONSTRUCTOR, FOR 'MINOR' SEWERAGE CONNECTION WORKS, DEFINED IN THE A&C MANUAL UNDER SECTION PRE-START MEETING, UNDER THE INSPECTION OF THE CONSTRUCTION CERTIFIER WHO SHALL FOLLOW THE PLANNED NETWORK INTERVENTION PROCESS, OR
 - BY QUOTATION REQUEST TO UNITYWATER PRIVATE WORKS, FOR SEWERAGE CONNECTION WORKS NOT MEETING THE CRITERIA FOR CLASSIFICATION AS 'MINOR'.
- EACH ALLOTMENT ~~SHALL BE WAS~~ SERVED BY A DN110 PE PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE PROPERTY CONNECTION ~~SHALL BE WAS~~ PROVIDED.
- PROPERTY CONNECTIONS ~~SHALL BE WERE~~ LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES ~~SHALL EXTEND EXTENDED~~ INTO THE PROPERTY A MINIMUM OF 500mm AND A MAXIMUM OF 750mm.
- WHERE PIPES ARE LAID IN FILL, THE FILLING ~~SHALL BE WAS~~ CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND ~~SHALL BE WAS~~ COMPACTED UNTIL THE COMPACTION ~~IS WAS~~ NOT LESS THAN 95% OF THE MATERIAL'S MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING ~~SHALL BE WAS~~ CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES, APPROVAL OF CONSTRUCTED SEWERS ~~WILL NOT BE WAS NOT~~ ISSUED BY SEQ SERVICE PROVIDER UNLESS CERTIFICATES ~~ARE WERE~~ PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS ~~HAVE HAD~~ A GRADE OF 1 IN 20 OR STEEPER. TRENCH STOPS AND/OR BULKHEADS ~~SHALL BE WERE~~ CONSTRUCTED IN ACCORDANCE WITH THE SEQ-SP's.
- THE CONTRACTOR SHALL VERIFY ~~VERIFIED~~ THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWER ~~SHALL BE WAS~~ DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ-SP's.
- BENCH ~~MARK MARKED~~ AND ~~LEVEL LEVELLED~~ TO AHD.
- TANGENT POINT SET-OUT INFORMATION FOR HORIZONTAL BENDS ~~IS TO BE WAS~~ INCLUDED ON AS-CONSTRUCTED DRAWINGS.
- MAINTENANCE STRUCTURES GREATER THAN 4m DEEP AND WITH AN INTERNAL DIAMETER 1500 OR MORE ~~TO BE WAS~~ PE LINED.
- BOLT DOWN COVERS ARE REQUIRED ON MAINTENANCE STRUCTURES LOCATED BELOW THE 1% AEP FLOOD LEVEL AND IN ACCORDANCE WITH NOTE 13 OF SEQ CODE STD DWG SEQ-SEW-1308-10
- WHERE HORIZONTAL CURVES ARE PROPOSED. ~~ADOPT ADOPTED~~ MINIMUM RADIUS BEND AS NOMINATED WITHIN WITH PIPA P02 GUIDELINES.
- MAINTENANCE STRUCTURES DEEPER THAN THE 1% AEP FLOOD LEVEL (RL7.92) ~~SHALL BE WERE~~ CAST-IN-SITU.
- ALL WORKS ON EXISTING SEWER(S) ~~TO BE WAS~~ CARRIED OUT BY UNITY WATER PRIVATE WORKS AT THE DEVELOPER'S EXPENSE UNLESS OTHERWISE AGREED AT THE PRE-START MEETING.
- ALL SEWER HC'S ~~TO BE WERE~~ OFFSET 1.0m FROM SIDE PROPERTY BOUNDARY U.N.O.

ENVIRONMENTAL MANAGEMENT APPROVAL NOTES

- VEGETATION PROTECTION**
- TREES LOCATED ALONG FOOTPATH ~~SHOULD BE WERE~~, WHERE POSSIBLE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
 - WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES ~~SHOULD BE WERE~~ CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES ~~MUST BE WERE~~ STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN TO COMPLETION.
 - WHERE POSSIBLE, TREE ROOTS ~~SHOULD BE WERE~~ TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED, THE DAMAGED AREA ~~SHOULD BE WAS~~ TREATED WITH A SUITABLE FUNGICIDE, ~~CONTACT CONTACTED~~ COUNCIL ARBORIST FOR FURTHER ADVICE.
 - ANY TREE LOPPING REQUIRED ~~SHOULD BE WAS~~ UNDERTAKEN BY AN APPROVED ARBORIST.
- SOIL**
- TOPSOIL AND SUBSOIL ~~SHOULD BE WAS~~ STOCKPILED SEPARATELY.
 - CARE ~~SHOULD BE WAS~~ TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY ~~INVOLVE HAVE INVOLVED~~ PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- CREEK CROSSINGS**
- SILTATION CONTROL MEASURES ~~SHOULD BE WERE~~ PLACED DOWNSTREAM OF ANY EXCAVATION WORKS.
 - APPROPRIATE SEDIMENT CONTROLS ~~SHOULD BE WERE~~ USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
 - NO SOIL ~~SHOULD BE WAS~~ STOCKPILED WITHIN 5m OF THE CREEK.
- REHABILITATION**
- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ~~ARE TO BE WERE~~ REINSTATED.
 - PREDISTURBANCE VEGETATION PATTERNS ~~SHOULD BE WERE~~ RESTORED.

MAJOR CONNECTIONS CERTIFICATION

I, _____ on _____, certify that:

- This plan has been assessed in accordance with requirements of the SEQ Code and Unitywater Standards;
- The construction of the works must only be undertaken in accordance with this drawing; and
- No design Amendments are permitted either before or during construction without the approval of Unitywater.
- During construction, where required, Variation Notifications must be submitted in accordance with A&C Manual

Major connections certifier _____

For and on behalf of EGIS CONSULTING PTY LTD: ACR/MAJ2020-089

LIVE WORKS TABLE

NO.	DESCRIPTION	SEW DIA	MH No.	MH/MS TYPE	COVER TYPE	LOT No.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	CONSTRUCTOR TO CONSTRUCT CONSTRUCTED NEW MANHOLE 3/2 OVER EXISTING SEWER TRUNK MAIN AND BENCH AND RENDER UP TO PIPE AND NOT REMOVE CROWN OF PIPE.	DN250PE	3/2	1500Ø	D	WATERSIDE ESPLANADE	8.508	7.681	4.118	4.390m
1(B)	AFTER NEW WORKS ACCEPTED 'ON MAINTENANCE' CONTRACTOR TO REMOVE REMOVED CROWN OF PIPE AND COMPLETE BENCHING (OR AS AGREED WITH UNITYWATER).									
2(A)	CONSTRUCTOR TO CONSTRUCT CONSTRUCTED NEW MANHOLE 2A/4 OVER EXISTING SEWER TRUNK MAIN AND BENCH AND RENDER UP TO PIPE AND NOT REMOVE CROWN OF PIPE.	DN160PE	2A/4	MS	D	WATERSIDE ESPLANADE	8.527	7.577	5.672	2.855m
2(B)	AFTER NEW WORKS ACCEPTED 'ON MAINTENANCE' CONTRACTOR TO REMOVE REMOVED CROWN OF PIPE AND COMPLETE BENCHING (OR AS AGREED WITH UNITYWATER).									

ENGINEER'S CERTIFICATION
Daniel Gibson
I, _____, HERE BY CERTIFY THAT:
1. THE INFORMATION CONTAINED IN THE THIS DRAWING / DOCUMENT IS IN COMPLIANCE WITH APPROVED DRAWINGS AND DESIGN.
2. THE NEW WATER AND SEWERAGE WORKS DEFINED BY THIS DRAWING HAVE BEEN DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SEQ CODE.
3. THIS REPRESENTS AN ACCURATE RECORD OF AS-CONSTRUCTED WORKS.
4. I ACCEPT RESPONSIBILITY FOR THE INFORMATION CONTAINED IN THIS DRAWING/DRAWING DOCUMENT.

RPEQ (SIGNATURE) _____ RPEQ No. 23875 DATE 28 June 2024 12:52 PM

ALL CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR ~~SHALL COMPLY COMPLIED~~ WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION.

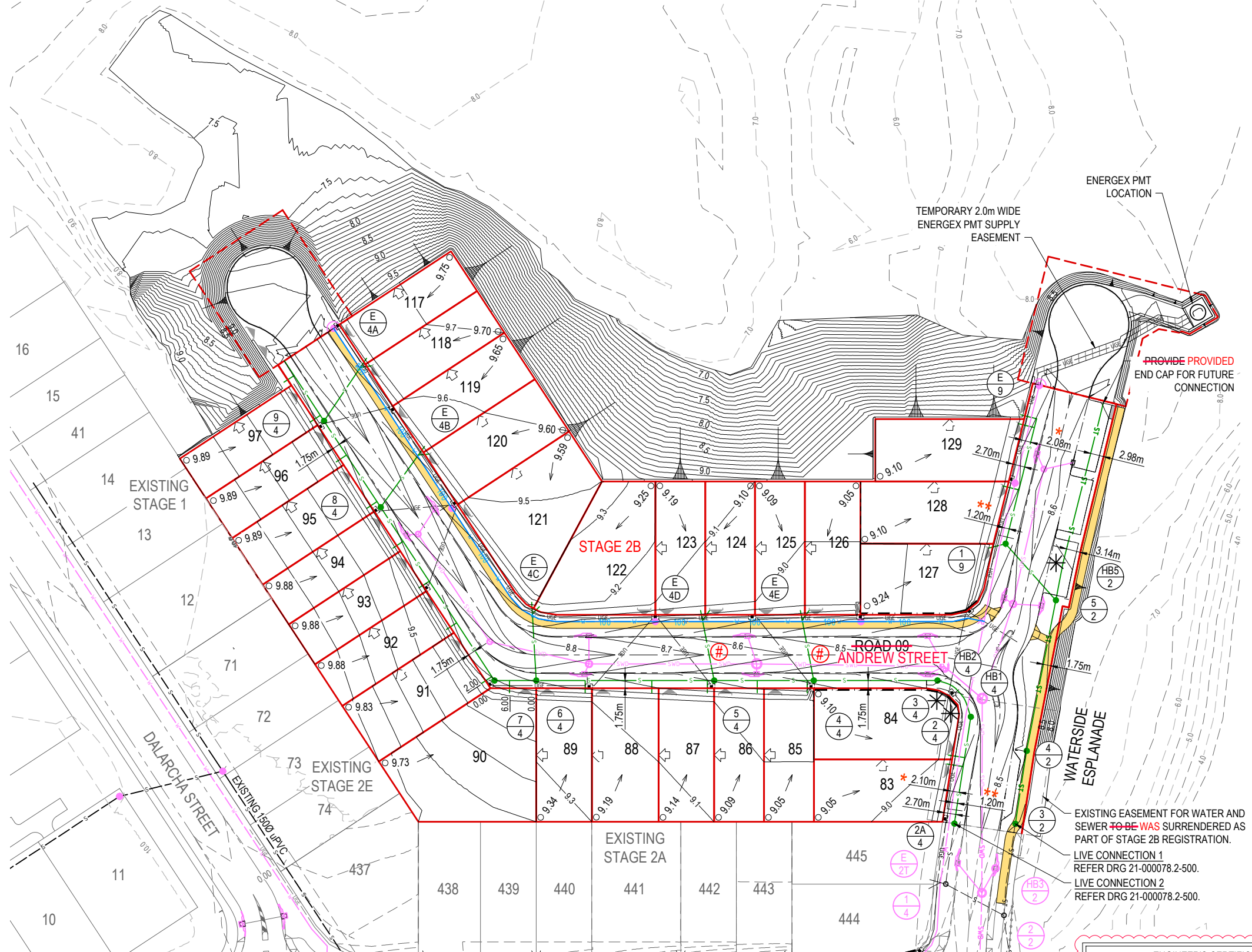
ALL ENVIRONMENTAL PROTECTION MEASURES ~~SHALL BE WERE~~ IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1 IN 60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION OF 1.50m, UNLESS NOTED OTHERWISE.

NOTE:
NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY ~~IS WAS~~ 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 ASCERTAINED~~ THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND ~~SHALL BE WAS~~ RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO.

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

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LEGEND	
	PROPOSED EASEMENT
	PROPOSED SEWERAGE RETICULATION DN160
	PROPOSED SEWERAGE RETICULATION DN250
	EXISTING DN250 SEWERAGE RETICULATION
	EXISTING DN160 SEWERAGE RETICULATION
	PROPOSED SLEEPER RETAINING WALL
	PROPOSED STORMWATER DRAINAGE
	EXISTING STORMWATER DRAINAGE
	PROPOSED WATER RETICULATION
	EXISTING WATER RETICULATION
	EXISTING SURFACE CONTOUR (0.5m INTERVALS)
	DESIGN SURFACE CONTOUR (0.1m INTERVALS)
	PROPOSED ENERGEX LINE UNDERGROUND
	PROPOSED ELECTRICAL PIT
	MANDATORY ZERO LOT BOUNDARY
	NOMINAL ZERO LOT BOUNDARY
	INDICATIVE DRIVEWAY LOCATIONS
	LOT CONTROL LEVEL
	DIRECTION OF HOUSE CONTROL
	PROPOSED SEWER STRUCTURE LABEL
	EXISTING SEWER STRUCTURE LABEL
	SETOUT TO MID POINT OF BEND

REFER DRAWING N 21-000078.2-500 FOR STANDARD SEWERAGE NOTES, LOCALITY PLAN AND LIVE WORKS TABLE

*** NOTE:**
ALL U/G TO CROSS OVER SEWER RETICULATION WITH MINIMUM 500mm VERTICAL CLEARANCE

REFER DRAWING 21-000078.2-511 FOR STORMWATER BRIDGING OVER SEWER PIPES DETAILS

**** NOTE:**
HORIZONTAL CLEARANCE TO WATER ALIGNMENT. REFER TO DRG 601 FOR SEWER-WATER VERTICAL CLEARANCES.

ENGINEER'S CERTIFICATION
Daniel Gibson
I, Daniel Gibson, HERE BY CERTIFY THAT:
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U.W. REF No. A/2021/0413

MANHOLE/END NAME
MANHOLE TYPE
LID TYPE
JUNCTION LINE
DROP TYPE
DEPTH TO HC
HOUSE CONNECTION INVERT LEVEL
HC TYPE
HC No
CH. FROM D/S MH

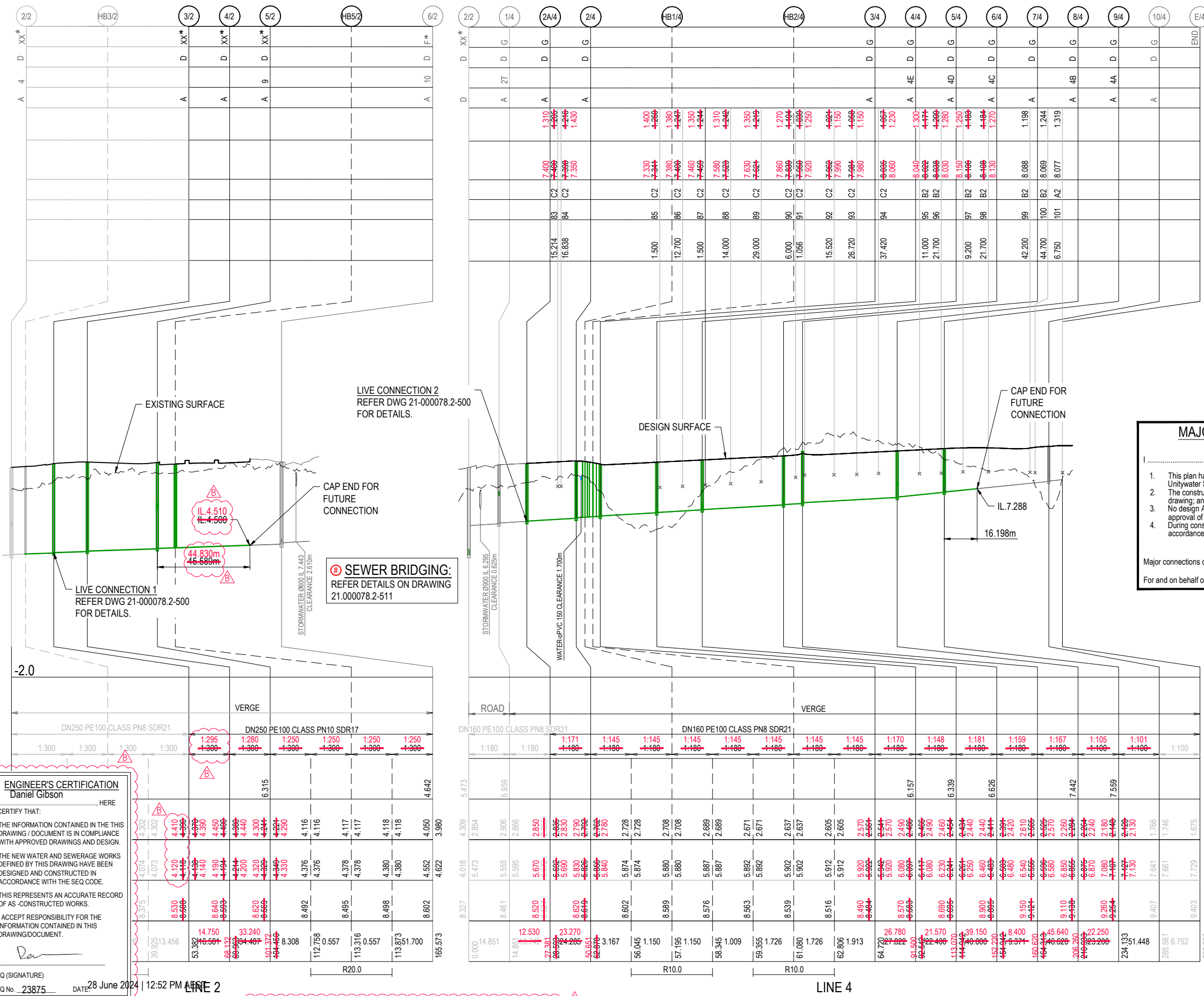
LEGEND

STRUCTURE TYPE	
G	9000 CONCRETE LOCATED IN ROADS, FOOTPATHS OR S. DEPTH<3.00m
F	12000 CONCRETE LOCATED IN ROADS, FOOTPATH OR S. 3.00m<DEPTH<4.25m
XX	15000 CAST IN SITU WITH 100mm TOE REF-SEQ-SEW-1307-1 REF DETAIL 1 ON DRG 21-000078.2-511
MS	6000 PE MAINTENANCE SHAFT LOCATED IN FOOTPATHS OR S 1.30m<DEPTH<5.0m
STRUCTURE COVER TYPE	
B	NON-TRAFFICABLE
D	TRAFFICABLE
D(BD)	TRAFFICABLE WITH BOLT DOWN
MAINTENANCE HOLE DROP TYPE	
A	FALL THROUGH MH
C	OBLIQUE 45° BACKDROP
D	EXTERNAL BACKDROP
MAINTENANCE SHAFT DROP TYPE	
MS-A	BULB CONNECTION (20mm/OVERT)
MS-B	RISER CONNECTION (>=750mm)

EMBEDMENT NOTE:
EMBEDMENT TYPE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND TO BE ADJUSTED IF REQUIRED TO SEQ-SEW-1201-1 & 1201-2

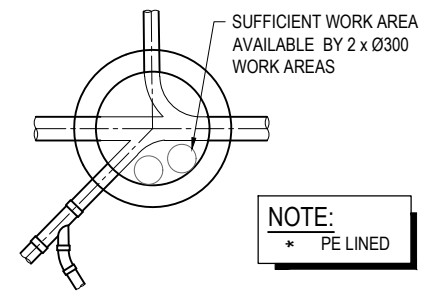
STREET ETC
DIAMETER
GRADE
JUNCTION INVERT LEVEL
DEPTH TO INVERT
INVERT LEVEL OF SEWER
DESIGN SURFACE LEVEL
RUNNING CHAINAGE

ENGINEER'S CERTIFICATION
Daniel Gibson
I, _____, HERE BY CERTIFY THAT:
1. THE INFORMATION CONTAINED IN THIS DRAWING / DOCUMENT IS IN COMPLIANCE WITH APPROVED DRAWINGS AND DESIGN.
2. THE NEW WATER AND SEWERAGE WORKS DEFINED BY THIS DRAWING HAVE BEEN DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SEQ CODE.
3. THIS REPRESENTS AN ACCURATE RECORD OF AS-CONSTRUCTED WORKS.
4. I ACCEPT RESPONSIBILITY FOR THE INFORMATION CONTAINED IN THIS DRAWING DOCUMENT.
RPEQ (SIGNATURE)
RPEQ No. 23875 DATE 28 June 2024 12:52 PM



NOTE:
ALL WORKS ON EXISTING SEWER(S) TO BE WAS CARRIED OUT BY UNITY WATER PRIVATE WORKS AT THE DEVELOPER'S EXPENSE UNLESS OTHERWISE AGREED AT THE PRESTART MEETING.

NOTE:
STORMWATER DRAINS TO BE WERE CONSTRUCTED SO THAT CENTRAL PART OF STORMWATER PIPE IS DIRECTLY OVER THE SEWER. JOINTS IN STORMWATER PIPE TO BE CLEAR OF SEWER.



TYPICAL MH DETAIL WITH MULTIPLE INLETS
1200Ø TYPE 'X' & 'F'
SCALE 1:25 (A1)

MAJOR CONNECTIONS CERTIFICATION

I, _____ on _____, certify that:
1. This plan has been assessed in accordance with requirements of the SEQ Code and Unitywater Standards;
2. The construction of the works must only be undertaken in accordance with this drawing; and
3. No design Amendments are permitted either before or during construction without the approval of Unitywater;
4. During construction where required, Variation Notifications must be submitted in accordance with A&C Manual
Major connections certifier _____
For and on behalf of EGIS CONSULTING PTY LTD: ACR/MAJ2020-089

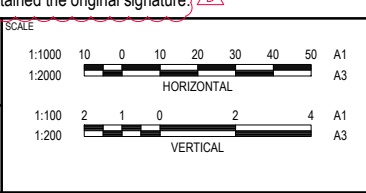
PROPERTY CONNECTION TABLE

TYPE A STANDARD & EXTENDED <0.300m			
A1			A2
A3			A4
TYPE B SLOPED CONNECTION 0.301m-1.00m			
B1			B2
B3			B4
TYPE C VERTICAL RISE >1.00m			
C1			C2
C3			C4

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	29.08.22	SEWER LINE 4, STAMP, DROP TYPE AND LID TYPE AMENDED	CHC	CHC		
3	05.12.22	MANHOLES 3/2 AND 2A/4 ARE ADDED TO LINE 2 & LINE 4	HS	CHC		
4	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS		
A	18.12.23	AS CONSTRUCTED	JM	HS		
B	27.06.24	AMENDED AS CONSTRUCTED	LH	HS		

DRAWN	DESIGN	DRAWN CHECK	STATUS
CHC	CHC		
CHC	CHC		
HS	CHC		
CHC	HS		
JM	HS		
LH	HS		

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



PEET
CABOOLTURE SYNDICATE LTD

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RIVERBANK ESTATE STAGE 2B
DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

U.W. REF No. A/2021/0413
SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2
PROJECT No. 21-000078.2
DRAWING No. 510
REVISION B

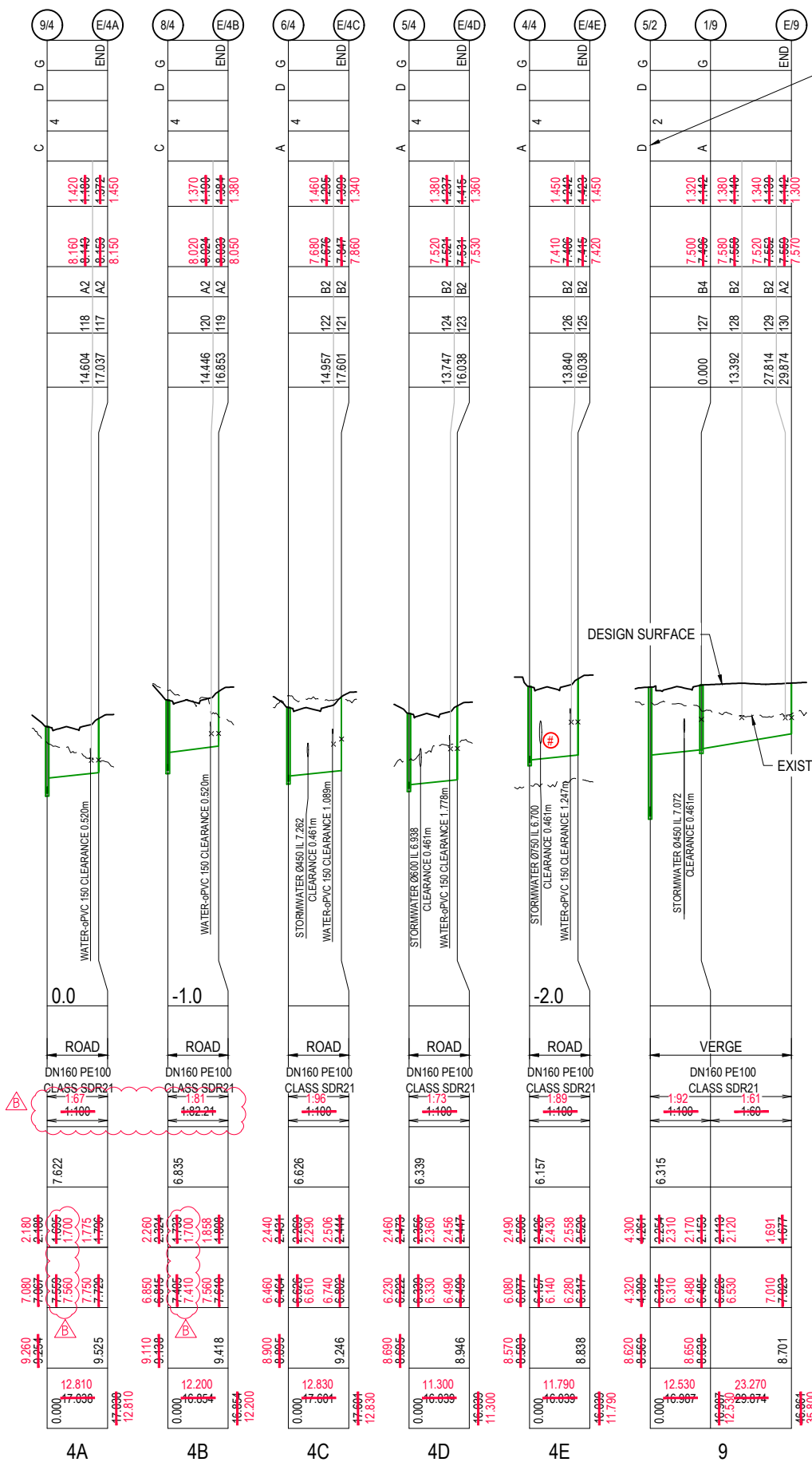
MANHOLE/END NAME
MANHOLE TYPE
LID TYPE
JUNCTION LINE
DROP TYPE
DEPTH TO HC
HOUSE CONNECTION INVERT LEVEL
HC TYPE
HC No
CH. FROM D/S MH

LEGEND

STRUCTURE TYPE	
G	900Ø CONCRETE LOCATED IN ROADS, FOOTPATHS OR S. DEPTH<3.00m
F	1200Ø CONCRETE LOCATED IN ROADS, FOOTPATH OR S. 3.00m<DEPTH<4.25m
XX	1500Ø CAST IN SITU WITH 100mm TOE REF-SEQ-SEW-1307-1 REF DETAIL 1 ON DRG 21-000078.2-511
MS	600Ø PE MAINTENANCE SHAFT LOCATED IN FOOTPATHS OR S 1.30m<DEPTH<5.0m
STRUCTURE COVER TYPE	
B	NON-TRAFFICABLE
D	TRAFFICABLE
D(BD)	TRAFFICABLE WITH BOLT DOWN
MAINTENANCE HOLE DROP TYPE	
A	FALL THROUGH MH
C	OBLIQUE 45° BACKDROP
D	EXTERNAL BACKDROP
MAINTENANCE SHAFT DROP TYPE	
MS-A	BULB CONNECTION (20mm/OBVERT)
MS-B	RISER CONNECTION (>=750mm)

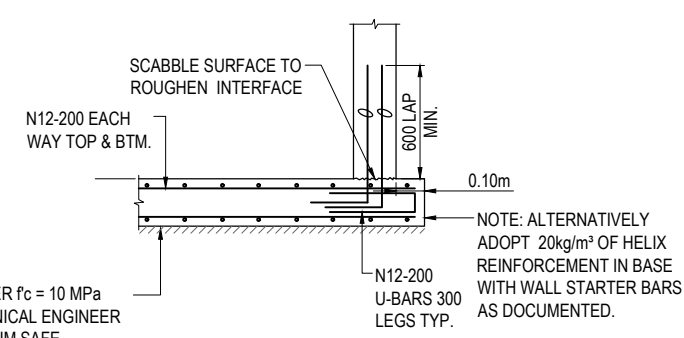
EMBEDMENT NOTE:
EMBEDMENT TYPE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION AND TO BE ADJUSTED IF REQUIRED TO SEQ-SEW-1201-1 & 1201-2

STREET ETC
DIAMETER
GRADE
JUNCTION INVERT LEVEL
DEPTH TO INVERT
INVERT LEVEL OF SEWER
DESIGN SURFACE LEVEL
RUNNING CHAINAGE

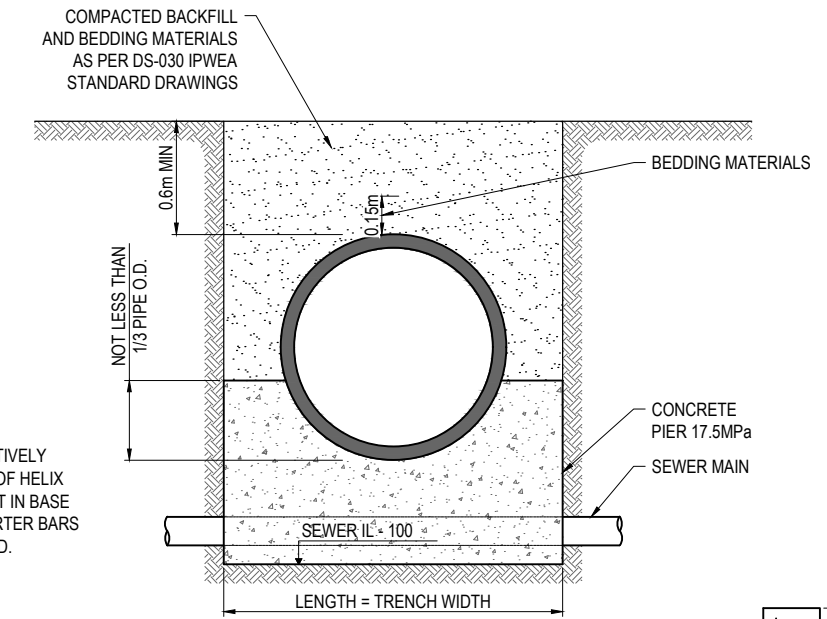


REFER NOTE 8 ON STD DRG SEQ-SEW-1301-8

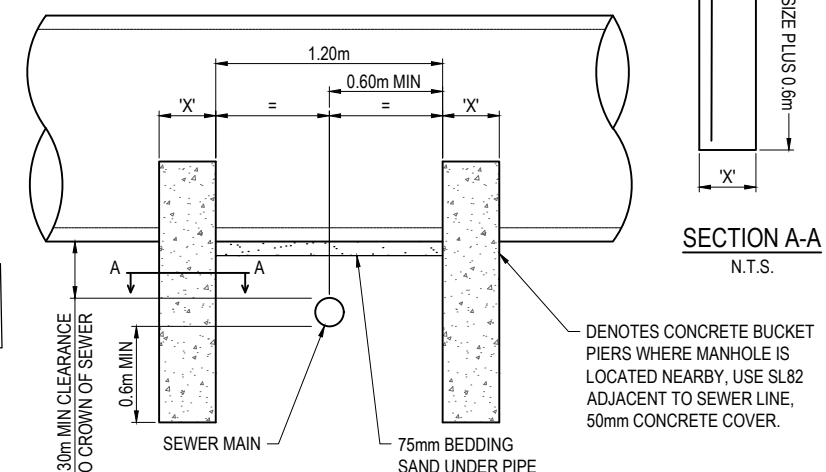
25mm BINDING LAYER $f_c = 10 \text{ MPa}$
ENGAGE GEOTECHNICAL ENGINEER TO VERIFY A MINIMUM SAFE ALLOWABLE BEARING PRESSURE OF 100 kPa CAN BE ACHIEVED



DETAIL 1
SCALE 1:20
TYPE XX MANHOLE MODIFICATION TO STANDARD DETAIL CONTAINED IN SEQ-SEW-1307-1



STORMWATER / SEWER BRIDGING DETAIL - SECTION
SCALE 1:20 (A1)
SCALE 1:40 (A3)



STORMWATER / SEWER BRIDGING DETAIL - ELEVATION
SCALE 1:20 (A1)
SCALE 1:40 (A3)

X = WIDTH OF CONCRETE PIERS (mm)		
PIPE SIZE	FIRM/STIFF CLAY SAFE BEARING >150kPa	STIFF/VERY STIFF CLAY SAFE BEARING >200kPa
600Ø - 1050Ø	450	350
1200Ø - 2100Ø	600	450

SEWER BRIDGING:
REFER DETAILS ON THIS DRAWING

MAJOR CONNECTIONS CERTIFICATION
I, _____ on _____, certify that:
1. This plan has been assessed in accordance with requirements of the SEQ Code and Unitywater Standards;
2. The construction of the works must only be undertaken in accordance with this drawing; and
3. No design Amendments are permitted either before or during construction without the approval of Unitywater.
4. During construction, where required, Variation Notifications must be submitted in accordance with A&C Manual
Major connections certifier: _____
For and on behalf of EGIS CONSULTING PTY LTD: ACR/MAJ2020-089

ENGINEER'S CERTIFICATION
Daniel Gibson
I, _____, HERE BY CERTIFY THAT:
1. THE INFORMATION CONTAINED IN THIS DRAWING / DOCUMENT IS IN COMPLIANCE WITH APPROVED DRAWINGS AND DESIGN.
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4. I ACCEPT RESPONSIBILITY FOR THE INFORMATION CONTAINED IN THIS DRAWING/DOCUMENT.
RPEQ (SIGNATURE) RPEQ No. 23875 DATE 28 June 2024 12:52 PM AEST

PROPERTY CONNECTION TABLE

TYPE A STANDARD & EXTENDED <0.300m		TYPE C VERTICAL RISE >1.00m	
A1	A2	C1	C2
A3	A4	C3	C4
TYPE B SLOPED CONNECTION 0.301m-1.00m			
B1	B2	B3	B4

NOTE:
GROUND CONDITIONS TO BE WERE VERIFIED ON-SITE BY CONTRACTOR. IF LESSER GROUND CONDITIONS PREVAIL, SPECIALLY DESIGNED DRILLED PIERS ARE TO BE WERE CONSIDERED.

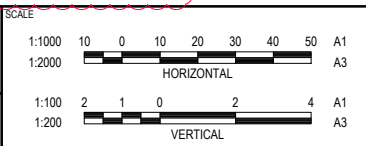
NOTE:
STORMWATER DRAINS TO BE WERE CONSTRUCTED SO THAT CENTRAL PART OF STORMWATER PIPE IS DIRECTLY OVER THE SEWER. JOINTS IN STORMWATER PIPE TO BE WERE CLEAR OF SEWER.

NOTE:
ALL WORKS ON EXISTING SEWER(S) TO BE WAS CARRIED OUT BY UNITYWATER PRIVATE WORKS AT THE DEVELOPER'S EXPENSE UNLESS OTHERWISE AGREED AT THE PRESTART MEETING.

LINE 4A 4B 4C 4D 4E 9

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	29.08.22	BRIDGING DETAIL, STAMP AND LID TYPE AMENDED	CHC	CHC		
3	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS		
A	18.12.23	AS CONSTRUCTED	JM	HS		
B	27.06.24	AMENDED AS CONSTRUCTED	LH	HS		

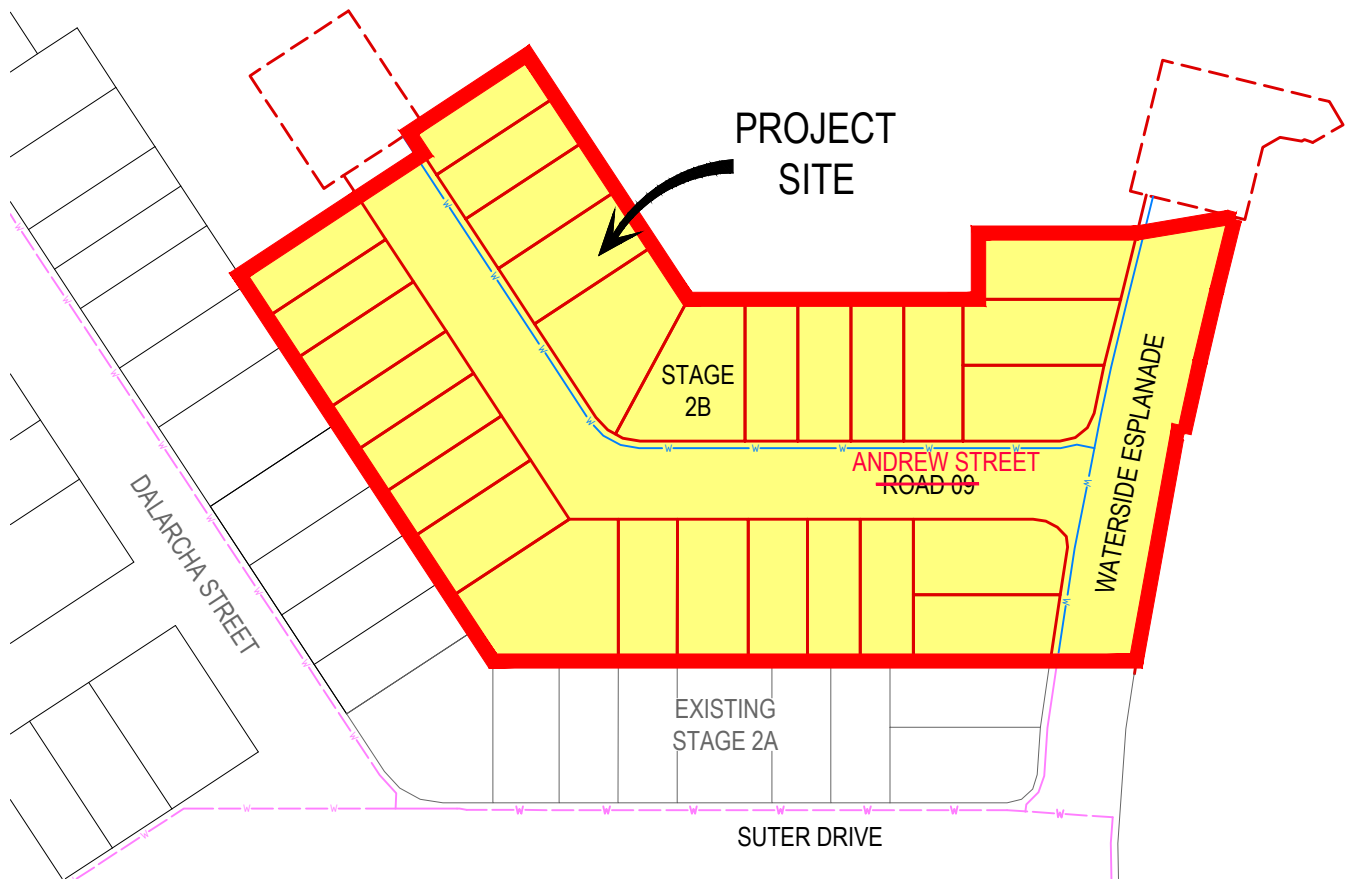
AS CONSTRUCTED
APPROVED: MARK WYER RPEQ 16191
FOR & ON BEHALF OF EGIS CONSULTING PTY LTD



RIVERBANK ESTATE STAGE 2B
DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

U.W. REF No. A/2021/0413

DRAWING TITLE		
SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2		
PROJECT No.	DRAWING No.	REVISION
21-000078.2	511	B



LOCALITY PLAN
N.T.S.

ALL CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR ~~SHALL COMPLY~~ **COMPLIED** WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION.

ALL ENVIRONMENTAL PROTECTION MEASURES ~~SHALL BE WERE~~ **IMPLEMENTED** PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

NOTE:
NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY ~~IS WAS~~ **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~~ **ASCERTAINED** THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND ~~SHALL BE WAS~~ **RESPONSIBLE** FOR MAKING GOOD ANY DAMAGE THERETO.

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

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

ABBREVIATIONS

- AC - ASBESTOS CEMENT
- CICL - CAST IRON CEMENT LINED
- CISL - CAST IRON SPUN LINED
- CR - CONCRETE REINFORCED
- CTS - CUT TO SUIT
- CUR - CONCRETE UN-REINFORCED
- DI - DUCTILE IRON
- DICL - DUCTILE IRON CEMENT LINED
- DN - DIAMETER NOMINAL
- EW - EARTHENWARE
- FH - FIRE HYDRANT
- HC - HOUSE CONNECTION
- HP - HIGH POINT
- JD - JOINT DEFLECTION
- LP - LOW POINT
- MH - MAINTENANCE HOLE
- MS - MAINTENANCE SHAFT
- mPVC - MODIFIED POLY VINYL CHLORIDE
- MSBW - MILD STEEL BUTT WELD
- MSCL - MILD STEEL CEMENT LINED
- PE - POLYETHYLENE
- PMT - PADMOUNT TRANSFORMER (ELECTRICAL SITE)
- RTS - ROTATE TO SUIT
- SC - STOP COCK/WATER METER
- TEP - TERMINAL ENTRY POINT
- oPVC - ORIENTED POLY VINYL CHLORIDE
- UW - UNITYWATER
- VC - VITRIFIED CLAY

ENGINEER'S CERTIFICATION
Daniel Gibson
I, Daniel Gibson, HERE BY CERTIFY THAT:
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RPEQ (SIGNATURE) RPEQ No. 23875 DATE 28 June 2024 12:52 PM

MAJOR CONNECTIONS CERTIFICATION
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4. During construction, where required, Variation Notifications must be submitted in accordance with A&C Manual
Major connections certifier _____
For and on behalf of EGIS CONSULTING PTY LTD: ACR/MAJ2020-089

NOTE:
ALL WORKS ON EXISTING WATER MAINS ~~TO BE WERE~~ **CARRIED OUT** BY UNITYWATER PRIVATE WORKS AT DEVELOPER'S EXPENSE.

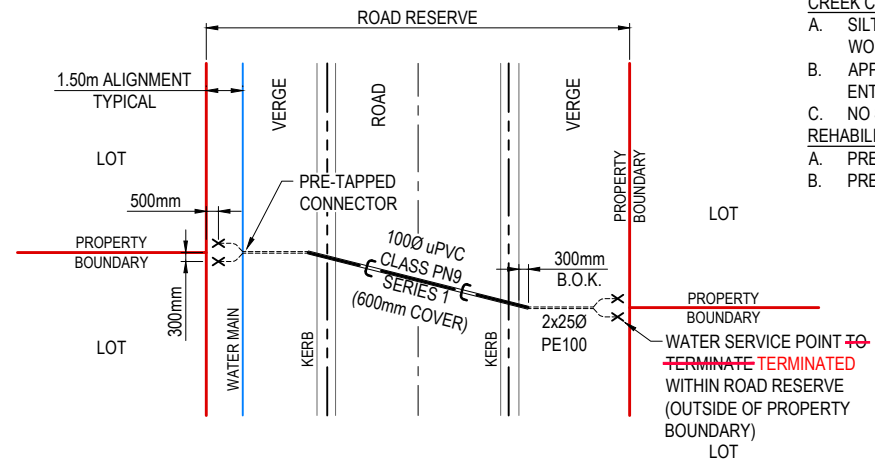
WATER RETICULATION NOTES

1. ALL DESIGN OF WATER SUPPLY NETWORK WORKS ~~SHALL BE WERE~~ **IN ACCORDANCE** WITH THE WATER SUPPLY CODE OF AUSTRALIA, SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION VERSION 1.3 (AUGUST 2019), PART 1: PLANNING AND DESIGN AND PART 3: DRAWINGS.
2. UNLESS SPECIFIED OTHERWISE, ALL WORK AND MATERIALS ~~SHALL COMPLY~~ **COMPLIED** WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ~~ADOPT~~ **ADOPTED** LIP OF KERB AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL ~~TO BE WERE~~ **AS SHOWN** IN STANDARD DRAWING SEQ-WAT-1200-2.
5. CONDUITS ~~TO BE WERE~~ **INSTALLED** IN ACCORDANCE WITH THE STANDARD DRAWINGS IN SEQ-SP's.
6. A WATER METER SUPPLIED AT DEVELOPER'S COST, ~~IS TO BE WAS~~ **INSTALLED** AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWINGS IN SEQ-SP's.
7. ALL PRODUCTS AND MATERIALS USED IN CONSTRUCTION OF WATER SUPPLY NETWORK WORKS ~~SHALL BE WERE~~ **IN ACCORDANCE** WITH THE SOUTH EAST QUEENSLAND CODE ACCEPTED CIVIL INFRASTRUCTURE PRODUCTS AND MATERIAL LIST, AND THE MOST RECENT VERSION OF THE LIST IN EFFECT AT THE DATE OF THE CONSTRUCTION PRE-START MEETING.
8. ALL CONCRETE FOOTPATHS ~~TO BE WERE~~ **CLEAR** OF WATER MAINS, WHERE POSSIBLE.
9. THE CONSTRUCTION OF THE WATER SUPPLY RETICULATION WORK SHOWN ON THIS DRAWING ~~MUST HAVE HAD~~ **CONTRACT ADMINISTRATION** UNDERTAKEN BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORK NOT COMPLYING WITH THIS REQUIREMENT ~~WILL NOT BE WERE~~ **NOT PERMITTED** TO CONNECT TO THE RETICULATION SYSTEM.
10. WHERE WATER MAINS CROSS A ROAD, WATER MAIN DEPTH OR PIPE CLASS ~~TO BE WAS~~ **ADJUSTED** TO CONSIDER CONSTRUCTION LOADINGS. WATER MAINS ~~ARE NOT TO BE WERE~~ **NOT LAID** WITHIN ROAD PAVEMENT.
11. WATER MAINS ~~ARE TO BE WERE~~ **LAID** ON A 1.50m ALIGNMENT FROM PROPERTY BOUNDARY UNLESS NOTED OTHERWISE.
12. ALL CONSTRUCTION OF WATER SUPPLY NETWORK WORKS ~~SHALL BE WAS~~ **IN ACCORDANCE** WITH THE WATER SUPPLY CODE OF AUSTRALIA, SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION VERSION 1.3 (AUGUST 2019), PART 2: CONSTRUCTION AND PART 3: DRAWINGS.
13. CONSTRUCTION WORKS ~~SHALL BE WERE~~ **SUPERVISED** BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT ~~WILL NOT BE WERE~~ **NOT PERMITTED** TO CONNECT INTO UNITYWATER'S WATER SUPPLY NETWORK.
14. ALL LIVE WORKS ASSOCIATED WITH THE WATER SUPPLY NETWORK ~~SHALL BE WERE~~ **CARRIED OUT** AT THE DEVELOPER'S COST BY QUOTATION REQUEST TO UNITYWATER PRIVATE WORKS ONLY.
15. THE CONSTRUCTOR ~~SHALL VERIFY~~ **VERIFIED** THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT ASSET OWNERS AND AUTHORITIES BEFORE COMMENCING WORKS.
16. PRIOR TO COMMENCEMENT OF ANY VARIATION WORKS, THE CONSTRUCTOR ~~MUST FIRST OBTAIN~~ **OBTAINED** APPROVAL FROM THE REGISTERED MAJOR CONNECTIONS CERTIFIER.

ENVIRONMENTAL MANAGEMENT APPROVAL NOTES

- VEGETATION PROTECTION**
- A. TREES LOCATED ALONG FOOTPATH ~~SHOULD BE WERE~~ **WHERE POSSIBLE**, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
 - B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD ~~BE WERE~~ **CONSTRUCTED** WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES ~~MUST BE WERE~~ **STRAPPED** TO TREES PRIOR TO CONSTRUCTION AND ~~REMAIN~~ **REMAINED** TO COMPLETION.
 - C. WHERE POSSIBLE, TREE ROOTS ~~SHOULD BE WERE~~ **TUNNELLED** UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED, THE DAMAGED AREA ~~SHOULD BE WAS~~ **TREATED** WITH A SUITABLE FUNGICIDE, CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.
 - D. ANY TREE LOPPING REQUIRED ~~SHOULD BE WAS~~ **UNDERTAKEN** BY AN APPROVED ARBORIST.
- SOIL**
- A. TOPSOIL AND SUBSOIL ~~SHOULD BE WERE~~ **STOCKPILED** SEPARATELY.
 - B. CARE ~~SHOULD BE WAS~~ **TAKEN** TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- CREEK CROSSINGS**
- A. SILTATION CONTROL MEASURES ~~SHOULD BE WERE~~ **PLACED** DOWNSTREAM OF ANY EXCAVATION WORKS.
 - B. APPROPRIATE SEDIMENT CONTROLS ~~SHOULD BE WERE~~ **USED** TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
 - C. NO SOIL ~~SHOULD BE WAS~~ **STOCKPILED** WITHIN 5m OF THE CREEK.
- REHABILITATION**
- A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ~~ARE TO BE WERE~~ **REINSTATED**.
 - B. PREDISTURBANCE VEGETATION PATTERNS ~~SHOULD BE WERE~~ **RESTORED**.

EGIS CONSULTING PTY LTD	
CONTACT	
OLIVER HARTIGAN	
TELEPHONE	
(07) 3228 9000	



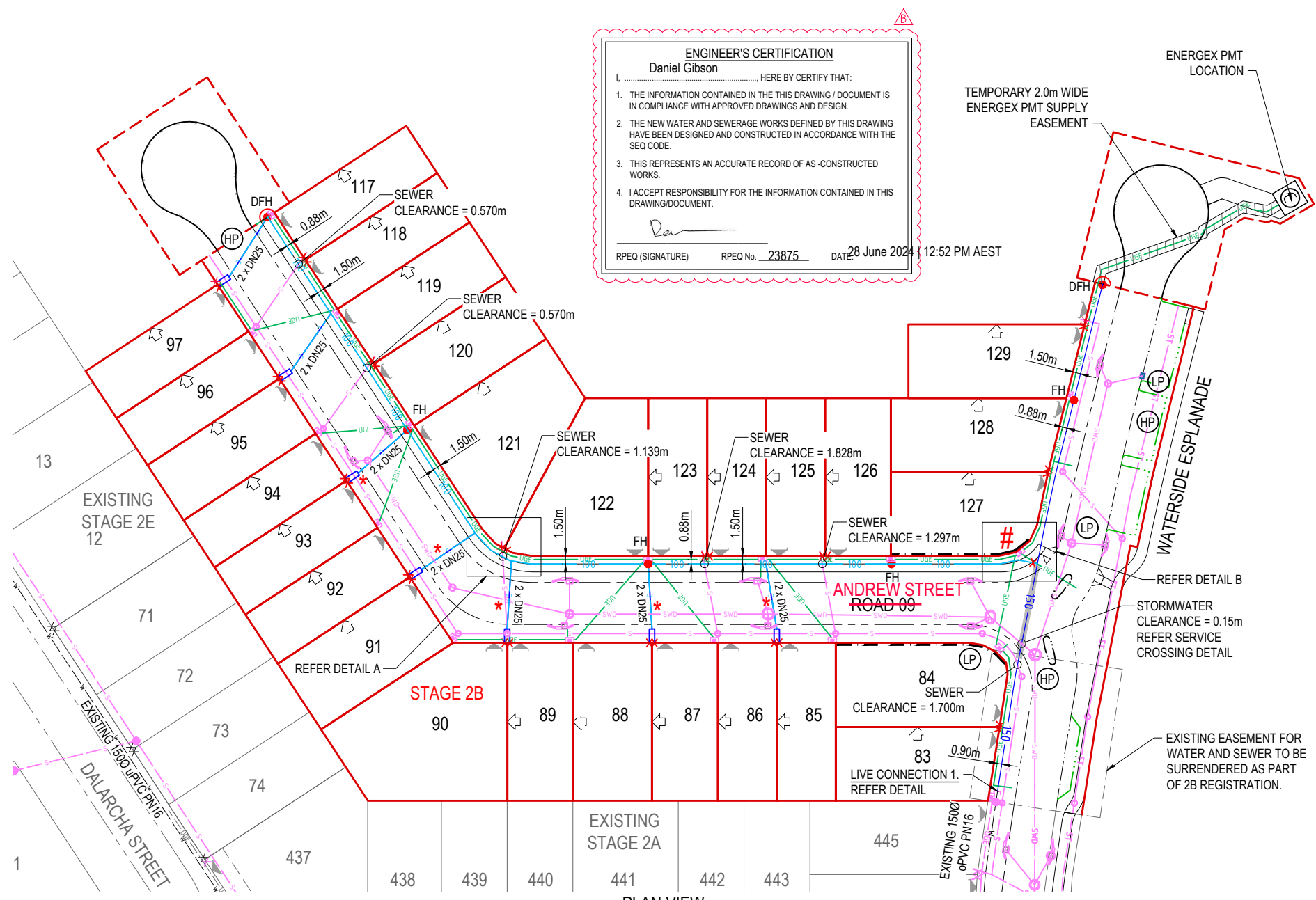
TYPICAL WATER SERVICE AND CONDUIT DETAIL
(REFER S.E.Q. (UNITYWATER) STD. DRG. WAT-1108-1 TO 1108-3)
SCALE: N.T.S.

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

<table border="1"> <tr><th>REVISION</th><th>DATE</th><th>ISSUE DETAILS</th><th>DRAWN</th><th>DESIGN</th><th>DRAWN CHECK</th><th>STATUS</th><th>SCALE</th></tr> <tr><td>1</td><td>18.05.22</td><td>ISSUED FOR APPROVAL</td><td>CHC</td><td>CHC</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>31.10.22</td><td>STAMP AMENDED</td><td>CHC</td><td>CHC</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>21.03.23</td><td>ISSUED FOR CONSTRUCTION</td><td>CHC</td><td>HS</td><td></td><td></td><td></td></tr> <tr><td>A</td><td>18.12.23</td><td>AS CONSTRUCTED</td><td>JM</td><td>HS</td><td></td><td></td><td></td></tr> <tr><td>B</td><td>27.06.24</td><td>AMENDED AS CONSTRUCTED</td><td>LH</td><td>HS</td><td></td><td></td><td></td></tr> </table>	REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC				2	31.10.22	STAMP AMENDED	CHC	CHC				3	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS				A	18.12.23	AS CONSTRUCTED	JM	HS				B	27.06.24	AMENDED AS CONSTRUCTED	LH	HS				<p>AS CONSTRUCTED</p> <p>APPROVED MARK WYER</p> <p>RPEQ 16191</p> <p>FOR & ON BEHALF OF EGIS CONSULTING PTY LTD</p>	<p>CLIENT</p> <p>PEET</p> <p>CABOOLTURE SYNDICATE LTD</p>	<p>egis</p> <p>© 2023 Egis Consulting Pty Ltd www.egis-group.com</p>	<p>PROJECT</p> <p>RIVERBANK ESTATE STAGE 2B</p> <p>DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.</p>	<p>DRAWING TITLE</p> <p>WATER RETICULATION COVER SHEET</p> <p>PROJECT No. 21-000078.2 DRAWING No. 600 REVISION B</p>
REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE																																														
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC																																																	
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U.W. REF No. A/2021/0413

ENGINEER'S CERTIFICATION
 Daniel Gibson
 I, Daniel Gibson, HERE BY CERTIFY THAT:
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 RPEQ (SIGNATURE) RPEQ No. 23875 DATE 28 June 2024 12:52 PM AEST



NOTE:
 ALL WORKS ON EXISTING WATER MAINS TO BE WERE CARRIED OUT BY UNITYWATER PRIVATE WORKS AT DEVELOPER'S EXPENSE.

NOTE:
 ALL UGE TO CROSS UNDER WATER MAIN WITH MINIMUM 500mm VERTICAL CLEARANCE

*** NOTE:**
 ALL WATER CONDUITS TO CROSS OVER STOMWATER PIPES WITH MINIMUM 300mm VERTICAL CLEARANCE

NOTE:
 REFER STD DRG SEQ-WAT-1205-1 AND SEQ-WAT-1206-1 FOR TYPICAL THRUST BLOCK DETAIL

LEGEND

100	PROPOSED 1000 oPVC PN16 WATER RETICULATION
150	PROPOSED 1500 oPVC PN16 WATER RETICULATION
---	EXISTING WATER RETICULATION
SWD	PROPOSED STORMWATER DRAINAGE
---	EXISTING STORMWATER DRAINAGE
S	EXISTING SEWER RETICULATION
ST	EXISTING TRUNK SEWERAGE RETICULATION
S	PROPOSED SEWERAGE RETICULATION
ST	PROPOSED SEWERAGE RETICULATION
UGE	PROPOSED ENERGEX LINE UNDERGROUND
□	PROPOSED ELECTRICAL PIT
—C—C—C—	PROPOSED WATER CONDUIT (1000 oPVC CLASS PN9)
150	DICL ROAD CROSSING (CLASS PN35)
x	WATER SERVICE POINT (METER) IN ACCORDANCE WITH SEQ-WAT118-1 TO 1108-3
x	EXISTING WATER SERVICE POINT (METER)
◇	ZERO LOT BOUNDARY
HP	HIGH POINT
LP	LOW POINT
↓	INDICATIVE DRIVEWAY LOCATION

SYMBOLS

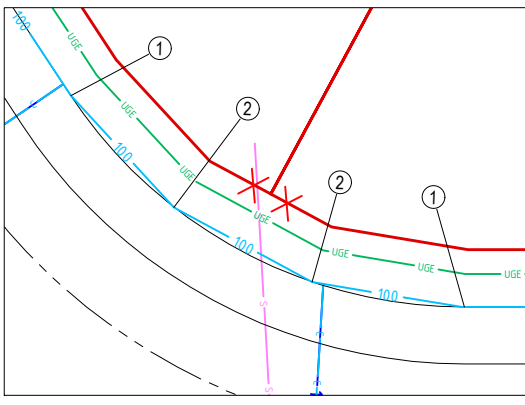
FIRE HYDRANT	FH
SLUICE VALVE	SV
SCOUR VALVE	*
DEAD END	—
REDUCER	—>
DUCK FOOT HYDRANT	—>○

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

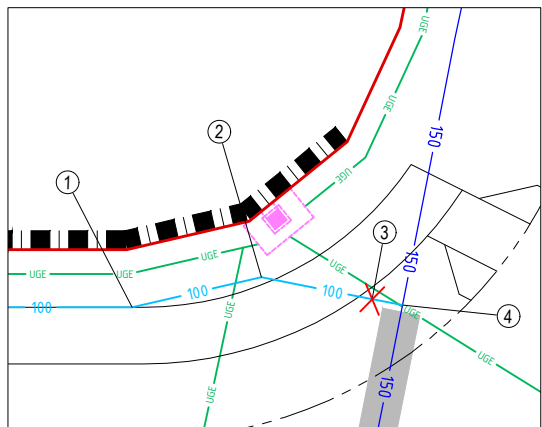
CAUTION !!
UNDERGROUND TELECOMMS CABLES
 UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT SUPPLIER FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

NOTE:
 REFER TO DRG 21-000078.2-600 FOR GENERAL NOTES.

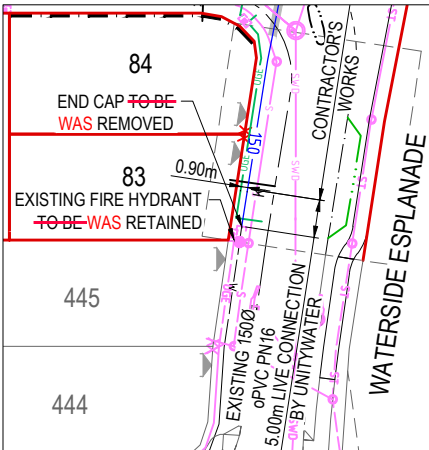
PLAN VIEW
 SCALE 1:500 AT A1
 SCALE 1:1000 AT A3



DETAIL A
 SCALE 1:100 AT A1
 SCALE 1:200 AT A3



DETAIL B
 SCALE 1:100 AT A1
 SCALE 1:200 AT A3



LIVE CONNECTION 1 DETAIL
 SCALE 1:500 AT A1
 SCALE 1:1000 AT A3

WATER FITTINGS TABLE

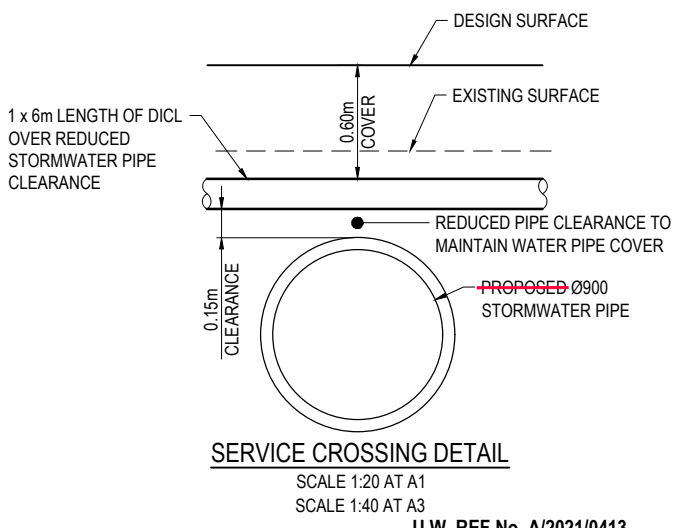
ITEM No.	DESCRIPTION	QTY
1	1000 x 11.25° BEND AND THRUST BLOCK	3
2	1000 x 22.50° BEND AND THRUST BLOCK	3
3	1000 SLUICE VALVE	1
4	1000 x 1500 TEE AND THRUST BLOCK	1

MAJOR CONNECTIONS CERTIFICATION

I, _____ on _____, certify that:

- This plan has been assessed in accordance with requirements of the SEQ Code and Unitywater Standards;
- The construction of the works must only be undertaken in accordance with this drawing; and
- No design Amendments are permitted either before or during construction without the approval of Unitywater;
- During construction, where required, Variation Notifications must be submitted in accordance with A&C Manual

Major connections certifier: _____
 For and on behalf of EGIS CONSULTING PTY LTD: ACR/MAJ2020-089



SERVICE CROSSING DETAIL
 SCALE 1:20 AT A1
 SCALE 1:40 AT A3

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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	18.05.22	ISSUED FOR APPROVAL	CHC	CHC		
2	31.10.22	FITTINGS TABLE, NOTE AND STAMP AMENDED	CHC	CHC		
3	05.12.22	WATER MAIN SIZE AMENDED ON ROAD 09	HS	CHC		
4	20.01.23	CLEARANCE AND STORMWATER LAYOUT AMENDED	CHC	HS		
5	21.03.23	ISSUED FOR CONSTRUCTION	CHC	HS		
A	18.12.23	AS CONSTRUCTED	JM	HS		
B	27.06.24	AMENDED AS CONSTRUCTED	LH	HS		

AS CONSTRUCTED

APPROVED: MARK WYER RPEQ 16191

FOR & ON BEHALF OF EGIS CONSULTING PTY LTD

SCALE	TITLE
1:20	0 0.2 0.4 0.6 0.8 1 A1
1:40	0 0.2 0.4 0.6 0.8 1 A1
1:100	1 0 1 2 3 4 5 A1
1:200	1 0 1 2 3 4 5 A1
1:500	10 5 0 10 20 A1
1:1000	10 5 0 10 20 A3

PEET
 CABOOLTURE SYNDICATE LTD

egis
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 www.egis-group.com

RIVERBANK ESTATE STAGE 2B

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

DRAWING TITLE	PROJECT No.	DRAWING No.	REVISION
WATER RETICULATION LAYOUT PLAN	21-000078.2	601	B

U.W. REF No. A/2021/0413

UNITYWATER PROJECT NUMBER U-2023-4788

MARKET DRIVE, CABOOLTURE SOUTH

DN160 & DN250/DN100 & DN150 SEWER/WATER MAIN



LOCALITY PLAN
NTS

DRAWING INDEX	
DRAWING NUMBER	DESCRIPTION
U-2023-4788 Sheet 1	LOCALITY PLAN AND DRAWING INDEX
U-2023-4788 Sheet 2	SEWER RETICULATION
U-2023-4788 Sheet 3	SEWER RETICULATION
U-2023-4788 Sheet 4	WATER RETICULATION
U-2023-4788 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.

ARTG
 Registered Surveyor (sig) Reg. Surveyor No. 03047 Date: 01/02/2024

AS CONSTRUCTED

A1	C	01.02.2024	AS CONSTRUCTED - ADDITIONAL FH TEXT ADDED, EXISTING SEWER AND WATER ADDED	JC	BA	AD	DRAWN	JC	01.02.2024
	B	21.12.2023	AS CONSTRUCTED	JC	BA	AD	CHECKED	BA	01.02.2024
	A	13.12.2023	PRELIMINARY	JC	BA	AD	PASSED	AD	01.02.2024
INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE		

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

Unitywater

2015003581S3
RIVERBANK STAGE 2B
WATERSIDE ESPLANADE
COVER SHEET

SHEET 1 OF 5 SHEETS	SCALE NA
REVISION DATE 01.02.2024	REVISION C
DISCIPLINE CODE C	
DRAWING NO. U-2023-4788	

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

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.

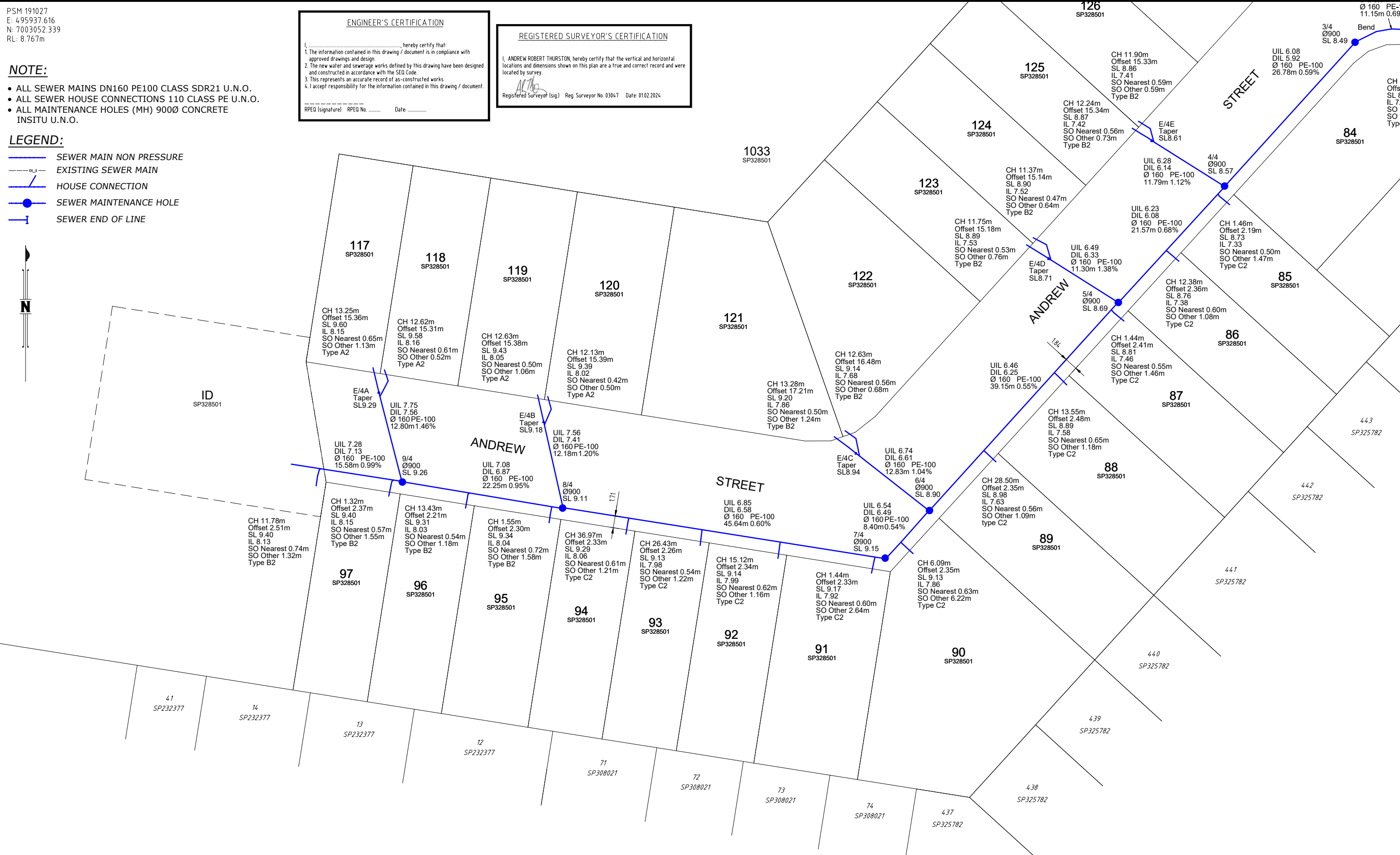
LEGEND:

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

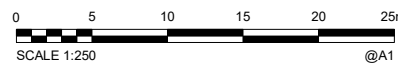


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	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	

WOLTER consulting group
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 Brisbane Level 2, 1 Breakfast Ck Road, Newstead, QLD 4006 Phone: (07) 3666 5200



Unitywater
 201500358153
 RIVERBANK STAGE 2B
 WATERSIDE ESPLANADE
 SEWER RETICULATION AS CONSTRUCTED

SHEET 2 OF 5 SHEETS	SCALE 1:250
REVISION DATE 01.02.2024	REVISION C
DISCIPLINE CODE C	
DRAWING NO. U-2023-4788	

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

COORDINATE DATUM NOTE:

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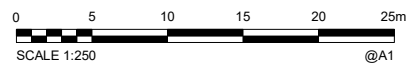
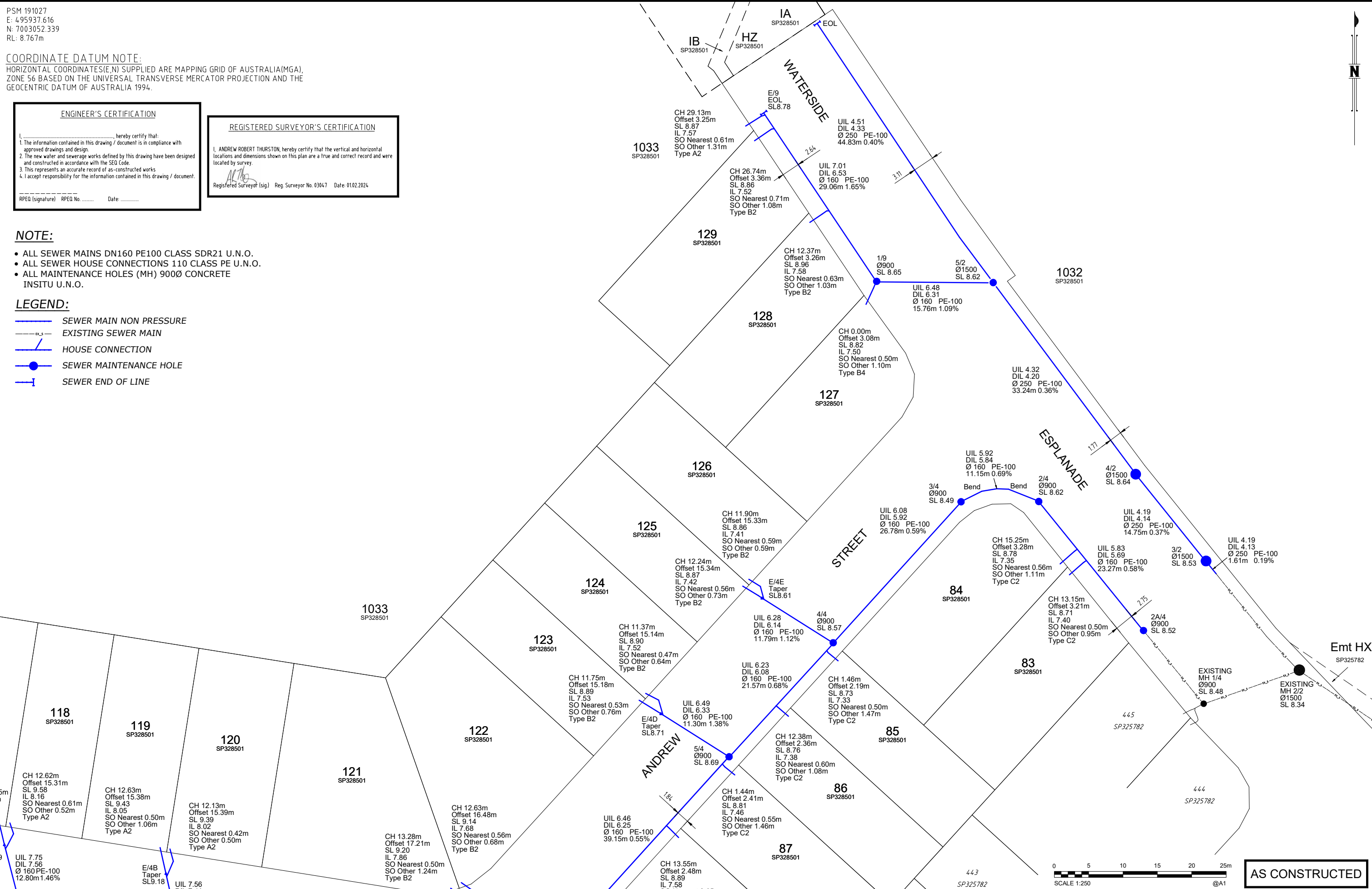
Registered Surveyor (sig) Reg. Surveyor No. 03047 Date: 01.02.2024

NOTE:

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- 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



AS CONSTRUCTED

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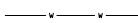






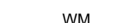



Unitywater

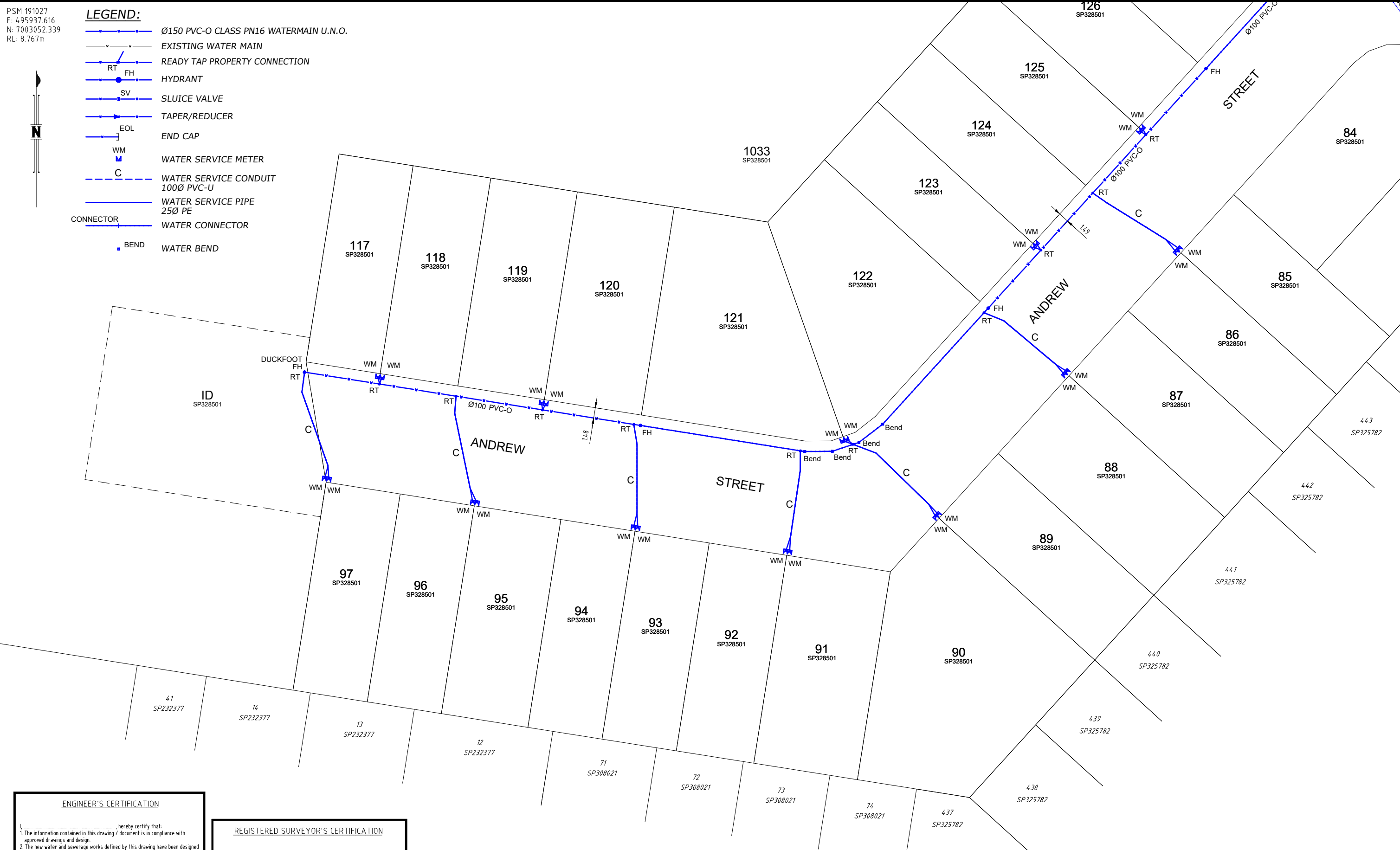
Unitywater
 201500358153
 RIVERBANK STAGE 2B
 WATERSIDE ESPLANADE
 SEWER RETICULATION AS CONSTRUCTED

SHEET 3 OF 5 SHEETS	SCALE 1:250
REVISION DATE 01.02.2024	REVISION C
DISCIPLINE CODE C	
DRAWING NO. U-2023-4788	

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

LEGEND:

-  Ø150 PVC-O CLASS PN16 WATERMAIN U.N.O.
-  EXISTING WATER MAIN
-  READY TAP PROPERTY CONNECTION
-  HYDRANT
-  SLUICE VALVE
-  TAPER/REDUCER
-  END CAP
-  WATER SERVICE METER
-  WATER SERVICE CONDUIT 100Ø PVC-U
-  WATER SERVICE PIPE 25Ø PE
-  WATER CONNECTOR
-  WATER BEND



ENGINEER'S CERTIFICATION

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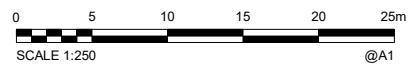
 RPEQ (signature) RPEQ No. _____ Date: _____

REGISTERED SURVEYOR'S CERTIFICATION

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AT
 Registered Surveyor (sig) Reg. Surveyor No. 03047 Date: 01.02.2024

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.



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	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE	

WOLTER consulting group

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Brisbane: Level 2, 1 Breakfast Ck Road, Newstead, QLD 4006 Phone: (07) 3666 5200



Unitywater

201500358153
 RIVERBANK STAGE 2B
 WATERSIDE ESPLANADE
 WATER RETICULATION AS CONSTRUCTED

SHEET 4 OF 5 SHEETS	SCALE 1:250
REVISION DATE 01.02.2024	REVISION C
DISCIPLINE CODE C	
DRAWING NO. U-2023-4788	

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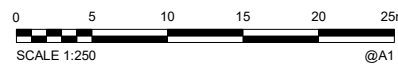
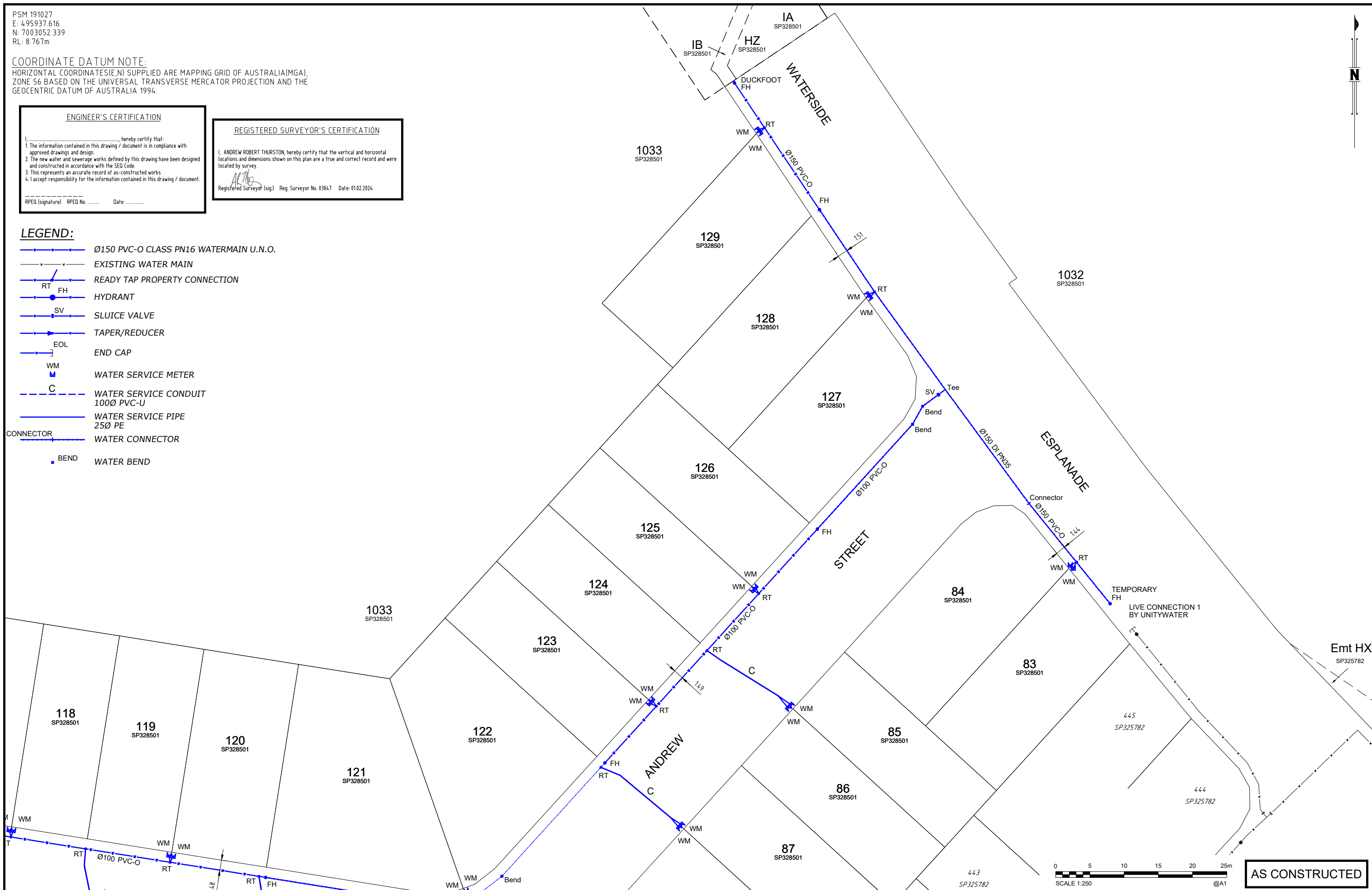
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Andrew Thurston
 Registered Surveyor (sig) Reg. Surveyor No. 03047 Date: 01.02.2024

LEGEND:

- Ø150 PVC-O CLASS PN16 WATERMAIN U.N.O.
- EXISTING WATER MAIN
- READY TAP PROPERTY CONNECTION
- HYDRANT
- SLUICE VALVE
- TAPER/REDUCER
- END CAP
- WATER SERVICE METER
- WATER SERVICE CONDUIT 100Ø PVC-U
- WATER SERVICE PIPE 25Ø PE
- WATER CONNECTOR
- BEND WATER BEND



AS CONSTRUCTED

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 Brisbane: Level 2, 1 Breakfast Ck Road, Newstead, QLD 4006 Phone: (07) 3666 5200



Unitywater
 2015003581S3
 RIVERBANK STAGE 2B
 WATERSIDE ESPLANADE
 WATER RETICULATION AS CONSTRUCTED

SHEET 5 OF 5 SHEETS	SCALE 1:250
REVISION DATE 01.02.2024	REVISION C
DISCIPLINE CODE C	
DRAWING NO. U-2023-4788	