

RIVERBANK ESTATE

LOT 1008 MARKET DRIVE CABOOLTURE SOUTH
 STAGE 19A
 FOR PEET CABOOLTURE SYNDICATE LTD



LOCALITY PLAN
 NTS

MORETON BAY REGIONAL COUNCIL

AREA OF SITE: 1.12ha

LOT INFORMATION

EXISTING LOTS
 LOT 1007 SP295486
 LOT 1008 SP295486
 PROPOSED NO. OF LOTS: 20

DRAWING INDEX

DRAWING NO.	DRAWING TITLE
GENERAL	
000	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
BULK EARTHWORKS	
200	BULK EARTHWORKS LAYOUT PLAN
201	BULK EARTHWORKS SECTIONS
202	COMPENSATORY EARTHWORKS LAYOUT PLAN
ROADWORKS	
300	SURVEY SETOUT LAYOUT PLAN & TABLES
301	ROADWORKS LAYOUT PLAN
302	INTERSECTIONS DETAILS PLAN
303	CHESTNUT STREET ROAD 63 LONGITUDINAL AND CROSS SECTIONS
304	OXLEY STREET ROAD 64 LONGITUDINAL AND CROSS SECTIONS
305	SIGNS AND LINEMARKING LAYOUT PLAN
DRAINAGE	
400	STORMWATER DRAINAGE LAYOUT PLAN
401	STORMWATER DRAINAGE CATCHMENT PLAN
402	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
403	STORMWATER DRAINAGE CALCULATIONS SHEET
SEWER RETICULATION	
500	SEWER RETICULATION COVER SHEET
501	SEWER RETICULATION LAYOUT PLAN
502	SEWER RETICULATION LONGITUDINAL SECTIONS
WATER RETICULATION	
600	WATER RETICULATION COVER SHEET
601	WATER RETICULATION LAYOUT PLAN
EROSION AND SEDIMENT PLAN	
800	SEDIMENT AND EROSION LAYOUT PLAN
801	SEDIMENT AND EROSION DETAILS

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: [Signature] DATE: 20-05-2020
 DANIEL GULLINS RPEQ 18631

CONSTRUCTION NOTE
 THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
 •• SEDIMENT AND EROSION HAZARD ASSESSMENT (PREPARED BY SOIL SURVEYS)
 •• ACID SULPHATES SOILS REPORT (PREPARED BY SOIL SURVEYS)
 •• GEOTECHNICAL REPORT (PREPARED BY SOIL SURVEYS)
 •• VEGETATION MANAGEMENT PLAN (VMP) (PREPARED BY SAUNDERS HAVILL GROUP)
 •• ENVIRONMENTAL MANAGEMENT PLAN (EMP) (PREPARED BY SAUNDERS HAVILL GROUP)

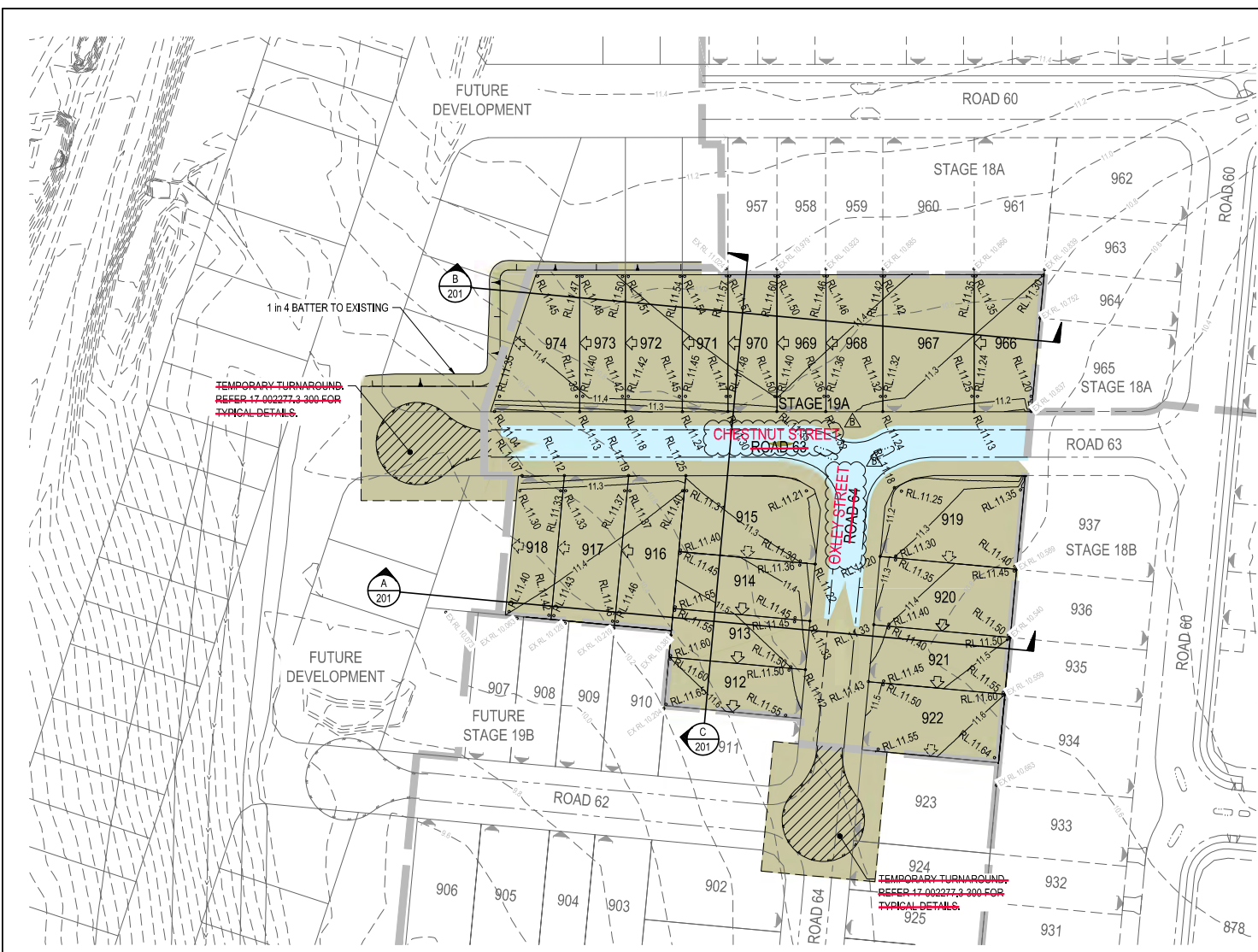
CONSTRUCTION HOLD POINT
 ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION **HAVE BEEN WERE** POURED, FURTHER CONSTRUCTION **SHALL DID** NOT PROCEED UNTIL THE SUPERINTENDENT AND OR ENGINEER **HAVE** INSPECTED THE WORKS FOR FINISHED LEVELS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

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

RIVERBANK ESTATE

STAGE 19A M.B.R.C. REF No. DA/34784/2017/V3RL

Project No.: 17-002277.3 Stage: 19A Milestone: AS Revision Date: 06.05.20 Drawing No.: 000 Revision: B
 CONSTRUCTED



LEGEND	
	PROPOSED STAGE BOUNDARY
	PROPOSED CONCRETE SLEEPER RETAINING WALL REFER TYPICAL DETAIL ON DRG No. 201
	EXISTING RETAINING WALL
	EXISTING SURFACE CONTOUR (0.2m INTERVALS)
	66.0 BULK EARTHWORKS SURFACE CONTOUR (0.1m INTERVALS)
	AREA OF CUT
	AREA OF FILL
	RL15.27 FINISHED SURFACE SPOT LEVEL
	• TW15.27 TOP OF RETAINING WALL LEVEL
	• BW15.27 BOTTOM OF RETAINING WALL LEVEL
	• EX58.75 EXISTING SURFACE SPOT LEVEL
	(1.70) PROPOSED RETAINING WALL HEIGHT
	INDICATIVE DRIVEWAY LOCATION
	MANDATORY ZERO LOT LINE
	NOMINAL ZERO LOT LINE
	PROPOSED EARTHWORKS BATTER 1 IN 4 MAX
	EXISTING EARTHWORKS BATTER
	PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
	FUTURE KERB & CHANNEL
	EXISTING KERB AND CHANNEL

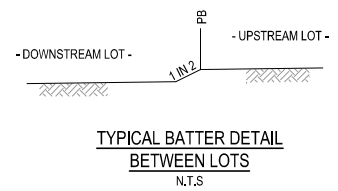
BULK EARTHWORKS NOTES

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

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.

DS01 SITING REQUIREMENTS:
 LOTS DENOTED WITH ZERO LOT LINES HAVE BEEN APPROVED BY COUNCIL IDENTIFYING HOW AND/OR WHERE DEVELOPMENT ON THIS LOT IS TO OCCUR. ANY DEVELOPMENT ON THIS LOT MUST BE IN ACCORDANCE WITH THE APPROVED PLAN AND ASSOCIATED CONDITIONS.



PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: _____ DATE 20.05-2020
 DANIEL COLLINS RPEQ 18631

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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CUSTOMER	PROJECT	DRAWING TITLE
A	14.01.20	ISSUED FOR CONSTRUCTION	DN	CR		AS CONSTRUCTED	1:500	PEET	RIVERBANK ESTATE STAGE 19A	BULK EARTHWORKS LAYOUT PLAN
B	06.05.20	AS CONSTRUCTED	EG	CR			1:1000	CARBOUTURE SYNDICATE LTD		
APPROVED: DANIEL COLLINS RPEQ 18631 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD										PROJECT NO: 17-002277.3 DRAWING NO: 200 REVISION: B

UW REF No. 2017011039s19A

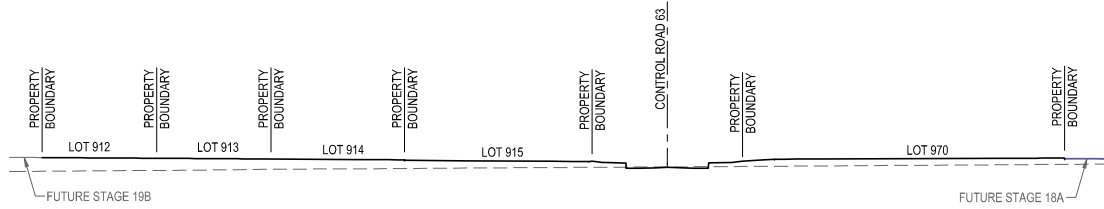
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

MINIMUM DESIGN REQUIREMENTS

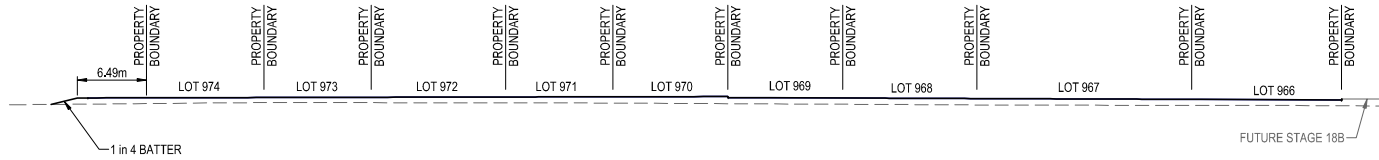
- SURCHARGE LOADING ON BACKFILL : 5kPa
- POST AND FOOTING DESIGN TO ALLOW FOR 1.8m HIGH FENCE
- MAX 1V:4H SLOPE BEHIND WALL

NOTES:

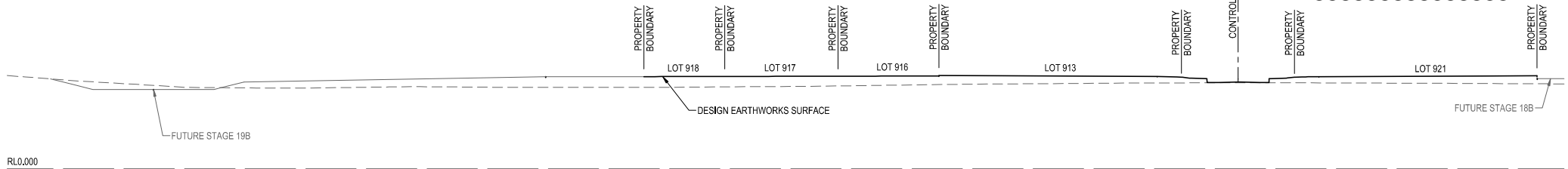
1. RETAINING WALLS **TO BE WERE** CONSTRUCTED TO MANUFACTURERS SPECIFICATIONS.
2. CONTRACTOR **TO PROVIDE PROVIDED** STRUCTURAL CERTIFICATION FOR RETAINING WALLS DESIGN AND CONSTRUCTION.
3. **PROVIDE PROVIDED** APPROVED SAFETY FENCE TO ALL WALLS HIGHER THAN 1.0m.
4. ALL RETAINING WALL FOOTINGS **TO BE WERE** LOCATED A MINIMUM 1.0m HORIZONTALLY CLEAR OF THE ROOFWATER AND SEWER AND BE TAKEN BELOW THE ZONE OF INFLUENCE.



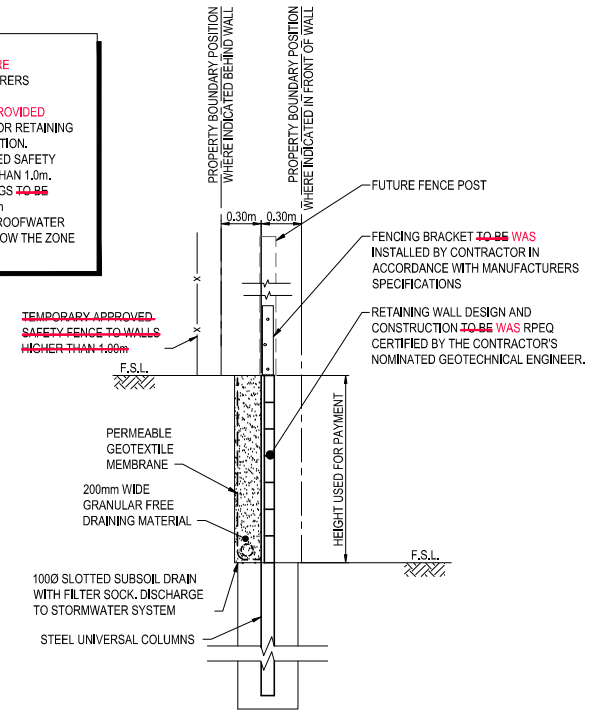
SECTION C
SCALE (A1):1:250
SCALE (A3):1:500



SECTION B
SCALE (A1):1:250
SCALE (A3):1:500



SECTION A
SCALE (A1):1:250
SCALE (A3):1:500



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

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

SIGNED: DANIEL COLLINS DATE: 20.05.2020
DANIEL COLLINS - RPEQ 18631

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

REVISION A 14/01/20 ISSUED FOR CONSTRUCTION B 06/03/20 AS CONSTRUCTED			DRAWN CH EG		DESIGN CR CR		DRAWN CHECK EG		STATUS AS CONSTRUCTED		SCALE 1:250 1:500		CLIENT PEET CABOOLTURE SYNDICATE LTD		PROJECT RIVERBANK ESTATE STAGE 19A		DRAWING TITLE BULK EARTHWORKS SECTIONS		
APPROVED: DANIEL COLLINS RPEQ 18631 FOR & ON BEHALF OF CALIBRE CONSULTING (QLD) PTY LTD										SCALE: 1:250 / 1:500		PROJECT: RIVERBANK ESTATE STAGE 19A		DRAWING NO: 201 REVISION: B					
URF REF No. 2017011039s19A																			

COMPENSATORY EARTHWORKS VOLUMES

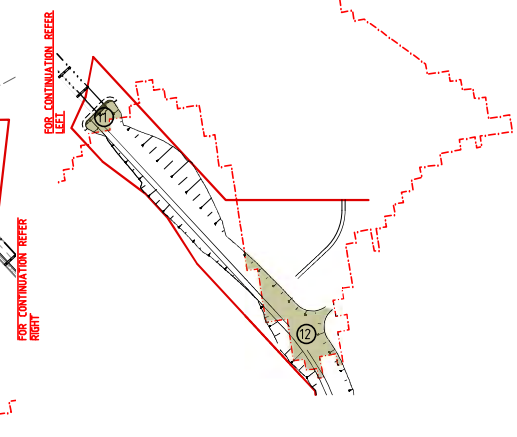
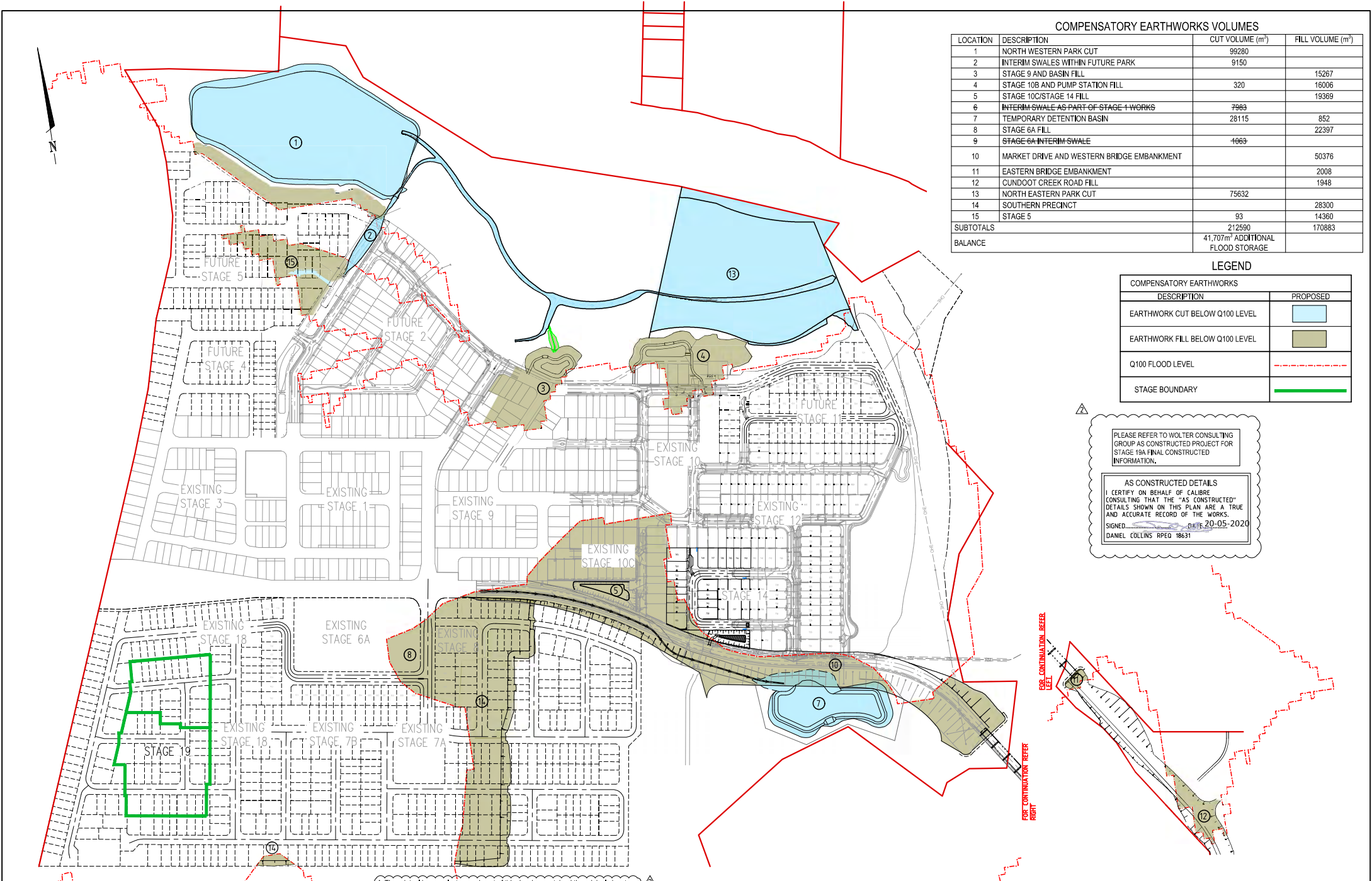
LOCATION	DESCRIPTION	CUT VOLUME (m³)	FILL VOLUME (m³)
1	NORTH WESTERN PARK CUT	99280	
2	INTERIM SWALES WITHIN FUTURE PARK	9150	
3	STAGE 9 AND BASIN FILL		15267
4	STAGE 10B AND PUMP STATION FILL	320	16006
5	STAGE 10C/STAGE 14 FILL		19369
6	INTERIM SWALE AS PART OF STAGE 4 WORKS	7969	
7	TEMPORARY DETENTION BASIN	28115	852
8	STAGE 6A FILL		22397
9	STAGE 6A INTERIM SWALE	-1063	
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		28300
15	STAGE 5	93	14360
SUBTOTALS		212590	170863
BALANCE		41,707m³ ADDITIONAL FLOOD STORAGE	

LEGEND

COMPENSATORY EARTHWORKS	
DESCRIPTION	PROPOSED
EARTHWORK CUT BELOW Q100 LEVEL	
EARTHWORK FILL BELOW Q100 LEVEL	
Q100 FLOOD LEVEL	
STAGE BOUNDARY	

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 SIGNED: DATE 20-05-2020
 DANIEL COLLINS RPEQ 18631



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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
1	27.08.18	ISSUE FOR APPROVAL	NA	CR		
2	06.05.20	AS CONSTRUCTED	EG	CR		

AS CONSTRUCTED

APPROVED
 DANIEL COLLINS RPEQ 18631
 (DANIEL COLLINS)
 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD

SCALE

1:2500 50 0 50 100 A1
 1:5000

CLIENT

PEET
 CABOOLTURE SYNDICATE LTD

PROJECT

calbre
 calbre group.com

PROJECT

RIVERBANK ESTATE STAGE 19A

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

DRAWING TITLE

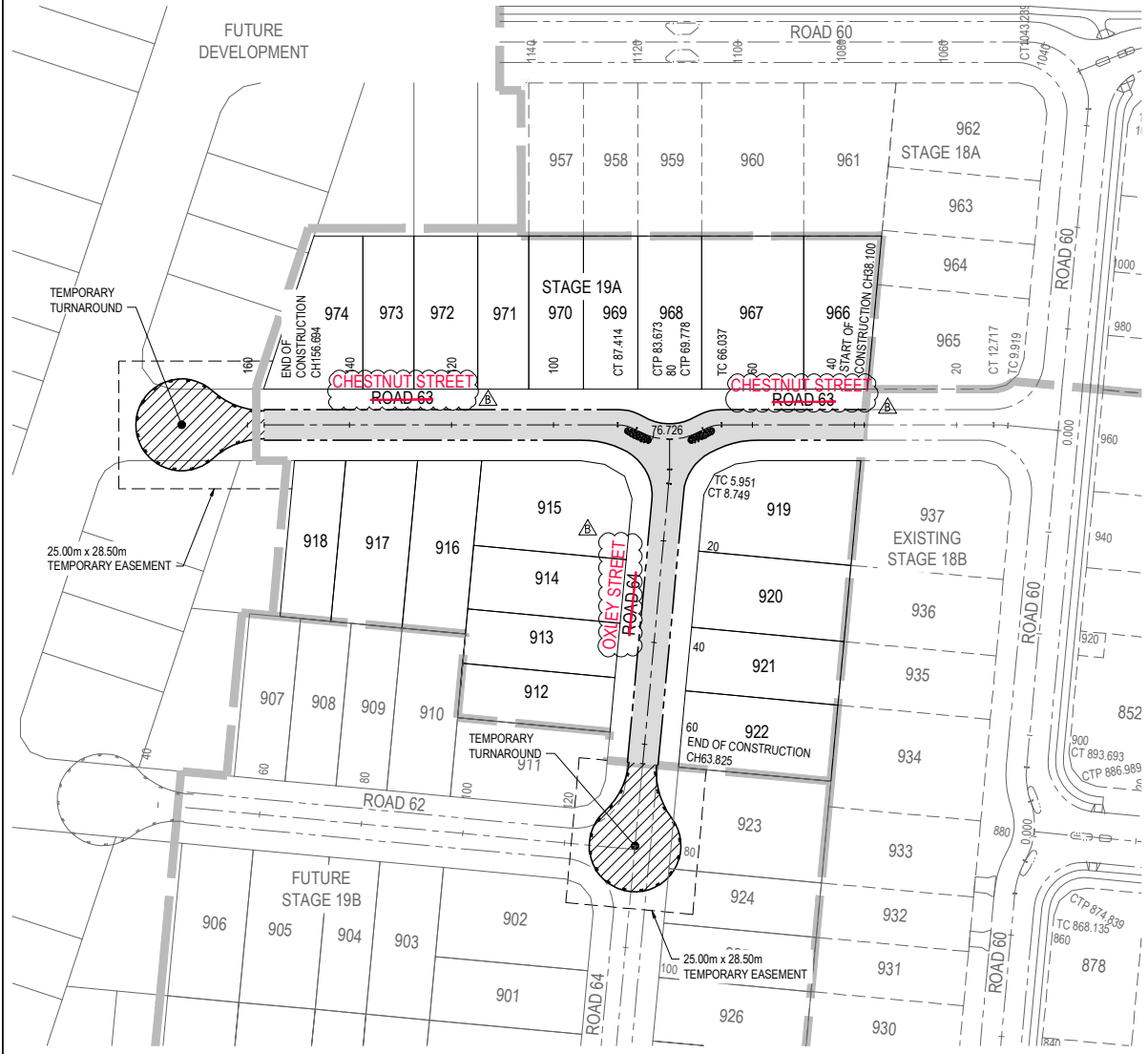
COMPENSATORY EARTHWORKS LAYOUT PLAN

PROJECT NO. **17-002277.3** DRAWING NO. **202** REVISION **2**

UW REF No. 2017011039s19A

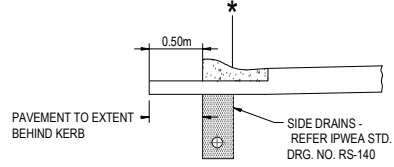
DS01 SITING REQUIREMENTS:
 LOTS DENOTED WITH ZERO LOT LINES HAVE BEEN APPROVED BY COUNCIL IDENTIFYING HOW AND/OR WHERE DEVELOPMENT ON THIS LOT IS TO OCCUR. ANY DEVELOPMENT ON THIS LOT MUST BE IN ACCORDANCE WITH THE APPROVED PLAN AND ASSOCIATED CONDITIONS.

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



PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
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 SIGNED: [Signature] DATE 20-05-2020
 DANIEL COLLINS RPEQ 18631

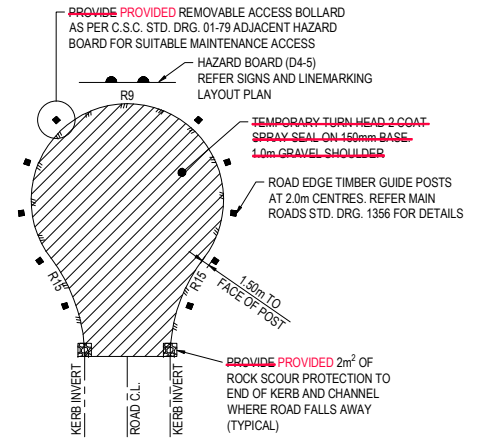


MOUNTABLE KERB AND CHANNEL
 TYPE M3 IPWEA
 SCALE 1:25

* NOMINAL FACE OF KERB

LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
- FUTURE KERB & CHANNEL
- EXISTING KERB AND CHANNEL



TYPICAL TEMPORARY TURNAROUND AREA DETAIL
 SCALE: 1:250 (A1)

CHESTNUT STREET ROAD 63 CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
START	20.000	5635.282	2963.354	10.789	.....		
	38.100	5617.220	2964.514					
	40.000	5615.323	2964.635	10.889	.....		
	60.000	5595.365	2965.917	10.989	.....		
TC	66.037	5589.340	2966.304	11.020				
IP 3	67.908	5587.427	2966.427	11.029		R = -7.000	3.741	.....
CC	69.778	5585.719	2965.558	11.038				
IP 4	76.726	5578.860	2962.072	11.073		R = 13.000	13.895	.....
	80.000	5575.788	2964.791	11.089	.....		
CC	83.673	5572.503	2966.407	11.108	.....		
IP 5	85.544	5570.920	2967.487	11.117		R = -7.000	3.741	.....
CT	87.414	5569.008	2967.610	11.127	.....		
	100.000	5556.448	2968.416	11.126	.....		
	120.000	5536.489	2969.698	11.026	.....		
	140.000	5516.530	2970.980	10.926	.....		
END	156.694	5499.870	2972.049		.....		
	160.000	5496.571	2972.261	10.826	.....		

OXLEY STREET ROAD 64 CONTROL LINE SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
START	0.000	5578.995	2964.174	11.073	.....		
TC	5.951	5578.614	2958.235	10.975	.....		
IP 2	7.350	5578.524	2956.838	10.968		R = 30.000	2.798	.....
CT	8.749	5578.305	2955.455	10.961	.....		
	20.000	5576.541	2944.343	10.989	.....		
	40.000	5573.406	2924.590	11.163	.....		
	60.000	5570.272	2904.838	11.337	.....		
END	63.825	5569.672	2901.059				
	80.000	5567.137	2885.085	11.384			
	100.000	5564.003	2865.332	11.160			

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REVISION	DATE	ISSUE DETAILS	DRWN	DESIGN	DRAWN CHECK	STATUS
A	14.01.20	ISSUED FOR CONSTRUCTION	CH	CR		
B	06.05.20	AS CONSTRUCTED	EG	CR		

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631
 (Signature)
 FOR & ON BEHALF OF CALIBRE CONSULTING (QLD) PTY LTD

SCALE: 1:250, 1:500, 1:1000

PEET
 CABOOLTURE SYNDICATE LTD

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 calbregroup.com

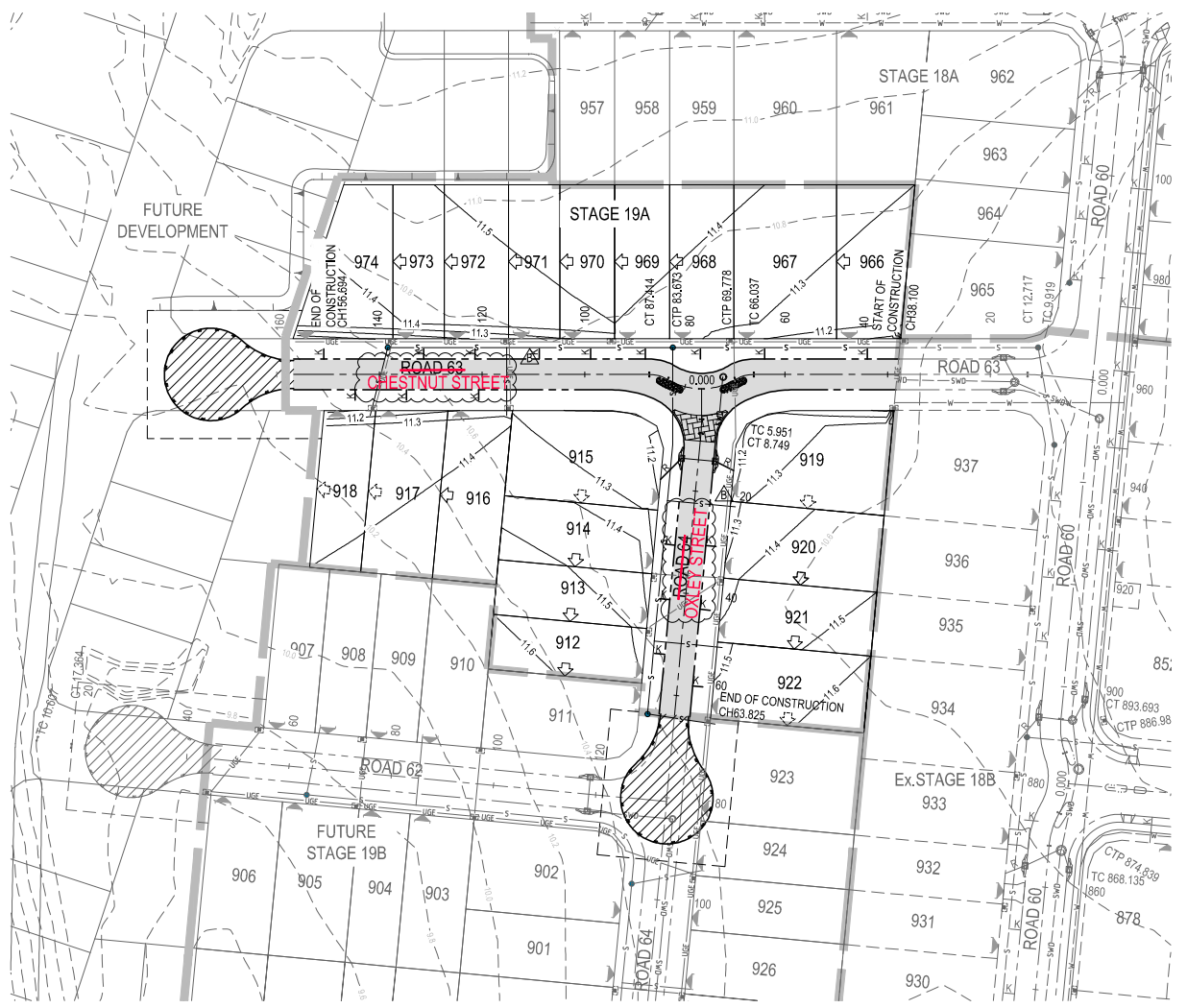
RIVERBANK ESTATE STAGE 19A

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

SURVEY SETOUT LAYOUT PLAN & TABLES

PROJECT NO: 17-002277.3
 DRAWING NO: 300
 REVISION: B

UW REF No. 2017011039s19A



LEGEND	
	PROPOSED STAGE BOUNDARY
	PROPOSED MOUNTABLE KERB & CHANNEL TYPE 'M3'
	CONCRETE SLEEPER RETAINING WALL
	EXISTING SURFACE CONTOUR (0.2m INTERVALS)
	DESIGN SURFACE CONTOUR (0.1m INTERVALS)
	PROPOSED STORMWATER DRAINAGE
	PROPOSED SEWERAGE RETICULATION
	PROPOSED WATER RETICULATION
	EXISTING STORMWATER DRAINAGE
	EXISTING SEWERAGE RETICULATION
	EXISTING WATER RETICULATION
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING UNDERGROUND TELECOMMUNICATION
	EXISTING EDGE OF BITUMEN
	KERB ADAPTOR - REFER NOTES ON DRG 17-002275.1-400
	INDICATIVE DRIVEWAY LOCATIONS
	MANDATORY ZERO LOT BOUNDARY
	NOMINAL ZERO LOT BOUNDARY
	PROPOSED AREA OF ASPHALT SURFACING
	CONCRETE THRESHOLD TREATMENT. REFER DRG 17-002277.3-302 FOR DETAILS.
	PROPOSED ENERGEX LINE UNDERGROUND
	PROPOSED ELECTRICAL PIT
	PROPOSED NBN PITS

ROADWORKS AND DRAINAGE NOTES

- ALL WORKS **SHALL BE WERE** CARRIED OUT IN ACCORDANCE WITH CURRENT C.S.C. STANDARD DRAWINGS AND METHODS.
- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS **SHALL BE WERE** DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS **MAX HAVE BEEN** BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
- LEVELS FOR KERB AND CHANNELING CONSTRUCTION **ARE WERE** AT EQUAL INTERVALS AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
- SIDE DRAINS **TO BE WERE** CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL AND IN LOCATIONS DIRECTED BY THE SUPERINTENDENT IN ACCORDANCE WITH C.S.C. STANDARDS.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS **MAY BE HAVE BEEN** VARIED AS REQUIRED TO ACHIEVE A SATISFACTORY CONNECTION AND THE CONTRACTOR **SHALL INCLUDE INCLUDED** THE COST OF THIS WORK IN THE TENDER PRICE. WHERE NEW WORK JOINS EXISTING, THE WORK **SHALL TRANSITION TRANSITIONED** NEATLY WITH THE PAVEMENT SO THAT DEVIATION FROM THE LINE OF A 3.0m STRAIGHT EDGE **SHALL BE WAS** NO GREATER THAN 10mm.
- ALL DIMENSIONS **ARE WERE** IN METRES UNLESS SHOWN OTHERWISE.
- SUBGRADE TEST RESULTS **TO BE WERE** FORWARDED TO SUPERINTENDENT, FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION, TESTS **SHALL INCLUDE INCLUDED** SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
- CONTRACTOR **TO LIAISE LIAISED** WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES **WILL BE WERE** CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- FOOTPATHS AND BATTERS **TO HAVE HAD** MINIMUM OF 75mm TOPSOIL (AND GRASSING IF ORDERED).
- PROVIDE PROVIDED** 'B' GRADE TURFING TO OUTLETS AS DIRECTED BY THE SUPERINTENDENT.
- ALL EXCAVATION AND FILLING **SHALL BE WAS** COMPACTED TO THE REQUIREMENTS OF AS3798-2007 IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION **IS WAS** REQUIRED.
- ALL DISTURBED AREAS STEEPER THAN 1 IN 6 **SHALL BE WERE** HYDROMULCHED, TURFED OR EQUIVALENT.
- ALL CONSTRUCTION ACTIVITIES **SHALL COMPLY COMPLIED** WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- ALL FOOTPATHS **ARE TO BE WERE** 125mm THICK N32 CONCRETE WITH F72 MESH.

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

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

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

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

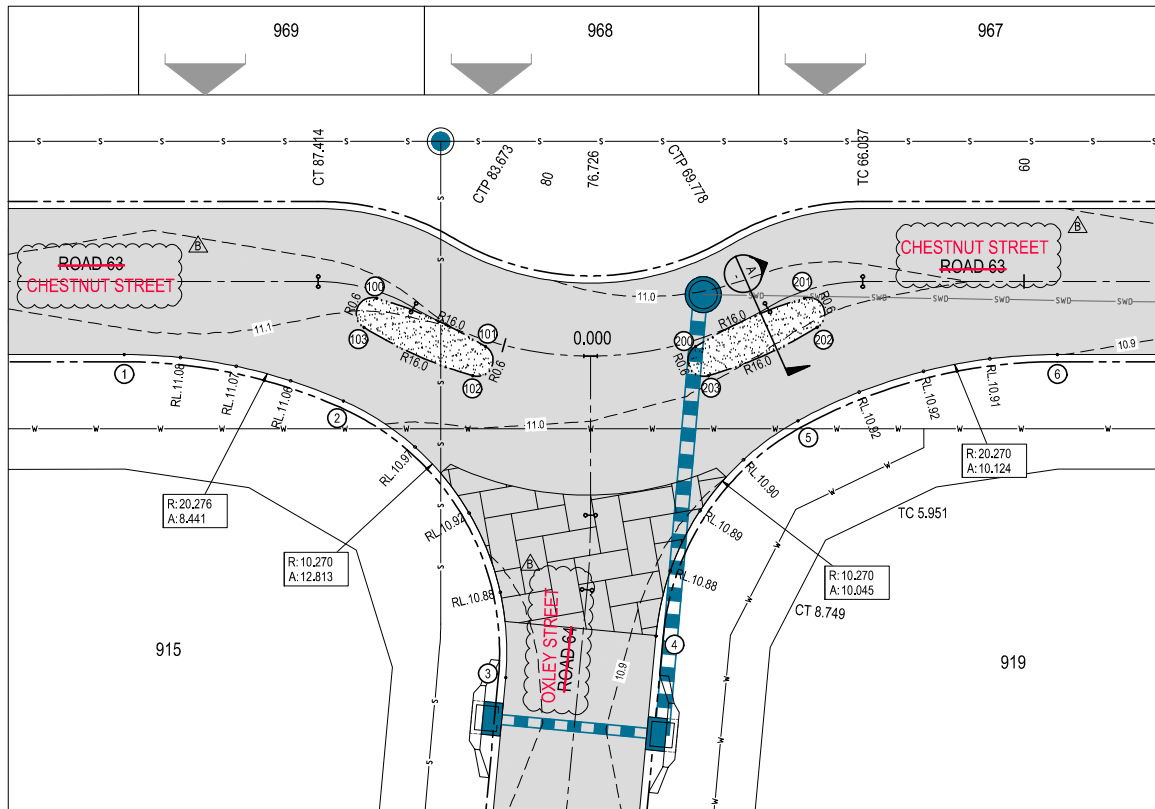
AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF CALBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
SIGNED: 04.11.20-05-2020
DANIEL COLLINS RPEQ 18631

DS01 SITING REQUIREMENTS:
LOTS DENOTED WITH ZERO LOT LINES HAVE BEEN APPROVED BY COUNCIL IDENTIFYING HOW AND/OR WHERE DEVELOPMENT ON THIS LOT IS TO OCCUR. ANY DEVELOPMENT ON THIS LOT MUST BE IN ACCORDANCE WITH THE APPROVED PLAN AND ASSOCIATED CONDITIONS.

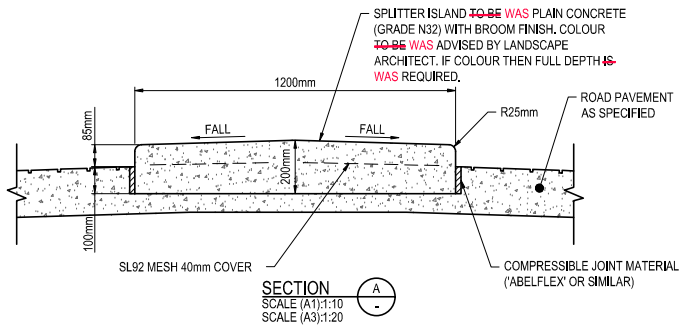
NOTE:
ACCESS AND SERVICES TO EXISTING PROPERTIES **TO REMAIN REMAINED** AT ALL TIMES.

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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CUSTOMER	PROJECT	DRAWING TITLE	
A	14.01.20	ISSUED FOR CONSTRUCTION	DN	CR			1:500 1:1000	PEET CAROOLTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 19A	ROADWORKS LAYOUT PLAN	
B	06.04.20	AS CONSTRUCTED	EG	CR							
APPROVED: DANIEL COLLINS RPEQ 18631 (* DANIEL COLLINS *) FOR & ON BEHALF OF CALBRE CONSULTING (OLD) PTY LTD									URBANER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.		
								PROJECT NO: 17-002277.3		DRAWING NO: 301	
								CLIENT:		REVISION: B	



ROAD 63/64 OXLEY/CHESTNUT INTERSECTION
 SCALE 1:100 (A1)
 SCALE 1:200 (A3)



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

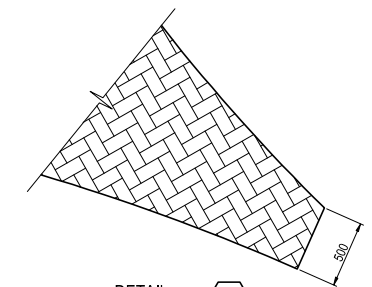
CHESTNUT AND OXLEY STREET ROAD 63 AND ROAD 64 PAVEMENT SETOUT

Point No.	Easting	Northing	Level
1	5561.586	2965.351	11.070
2	5569.657	2963.097	11.030
3	5575.052	2952.380	10.861
4	5580.768	2953.562	10.872
5	5586.580	2961.264	10.912
6	5596.428	2963.113	10.901

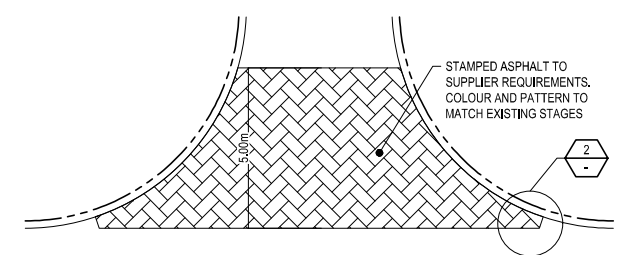
CHESTNUT STREET ROAD 63 ISLAND SETOUT

Point No.	Easting	Northing	Level
100	5571.153	2966.851	11.110
101	5575.098	2964.781	11.086
102	5574.546	2963.729	11.054
103	5570.601	2965.798	11.088
200	5582.937	2964.277	11.046
201	5587.115	2965.826	11.025
202	5587.528	2964.711	10.993
203	5583.350	2963.163	11.009

- LEGEND**
- PROPOSED STAGE BOUNDARY
 - PROPOSED STORMWATER DRAINAGE
 - PROPOSED SEWERAGE RETICULATION
 - PROPOSED WATER RETICULATION
 - FUTURE SEWERAGE RETICULATION
 - FUTURE WATER RETICULATION
 - EXISTING STORMWATER DRAINAGE
 - PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
 - PROPOSED BARRIER KERB ONLY TYPE B1
 - DESIGN SURFACE CONTOUR (0.1m INTERVALS)
 - STAMPED ASPHALT THRESHOLD TREATMENT.



DETAIL 2
 SCALE (A1): 1:20
 SCALE (A3): 1:40



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

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

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

SIGNED: DATE: 20.05.2020
 DANIEL COLLINS RPEQ 18631

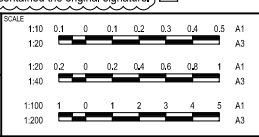
* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	14.01.20	ISSUED FOR CONSTRUCTION	DN	CR		
B	06.04.20	AS CONSTRUCTED	EG	CR		

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD



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RIVERBANK ESTATE STAGE 19A

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

INTERSECTIONS DETAILS PLAN

PROJECT NO. 17-002277.3
 DRAWING NO. 302
 REVISION B

UW REF No. 2017011039s19A

PRELIMINARY PAVEMENT DESIGN

ROAD	SUBGRADE CBR	TRAFFIC ESA'S	ROAD CLASS	SURFACING (mm)	BASE (mm)	SUB-BASE (mm)	BLANKET (mm)	TOTAL BOX (mm)
ROAD 63 CH38,100 - CH158,694	3*	1 x 10 ⁴	RESIDENTIAL ACCESS (A1)	30	100	100	225	455

FINAL PAVEMENT DESIGN

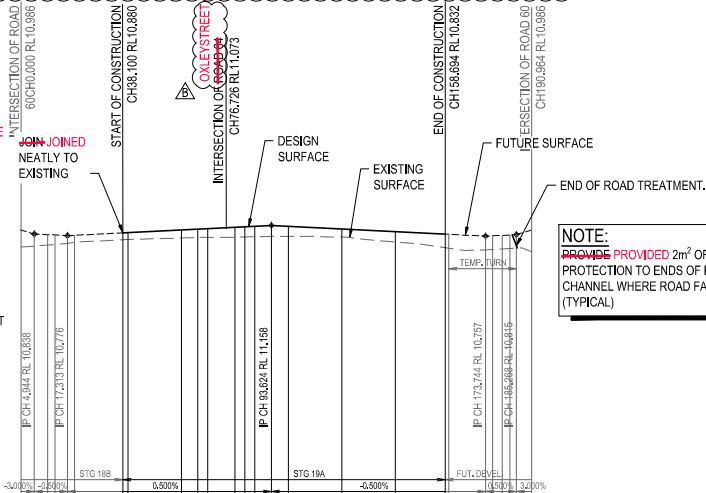
ROAD	SUBGRADE CBR	TRAFFIC ESA'S	ROAD CLASS	SURFACING (mm)	BASE (mm)	SUB-BASE (mm)	BLANKET (mm)	TOTAL BOX (mm)
CHESTNUT STREET CH38,000 - CH65,000	11	4 x 10 ⁴	RESIDENTIAL ACCESS (A1)	30	100	100	220	450

FINAL PAVEMENT DESIGN

ROAD	SUBGRADE CBR	TRAFFIC ESA'S	ROAD CLASS	SURFACING (mm)	BASE (mm)	SUB-BASE (mm)	BLANKET (mm)	TOTAL BOX (mm)
CHESTNUT STREET CH65,000 - CH160,000	6	4 x 10 ⁴	RESIDENTIAL ACCESS (A1)	30	100	100	220	450

PAVEMENT DESIGN NOTES:

- PRELIMINARY PAVEMENT DESIGNS HAVE BEEN WERE BASED ON THE ASSUMED SUBGRADE. ACTUAL PAVEMENT DESIGNS WILL BE WERE BASED ON TEST RESULTS TAKEN AFTER STRIPPING HAS BEEN COMPLETED.
- PRIMESEAL (10mm THICK) IS TO BE WAS PLACED UNDER ALL ASPHALT SURFACE COURSES
- INCREASE INCREASED A.C. THICKNESS BY 7mm IN AREAS OF STENCILED ASPHALT.
- PLACED COMBIGRID 30/30 450mm BELOW FINISHED SURFACE LEVEL AS DIRECTED BY SUPERINTENDENT WITHIN PROPOSED PAVEMENT DESIGN AT TIME OF CONSTRUCTION. COMBIGRID TO EXTEND EXTENDS 500mm BEHIND BACK OF KERB.
- SUB-BASE AND BLANKET MATERIALS TO BE PLACED 500mm BEHIND BACK OF KERB.

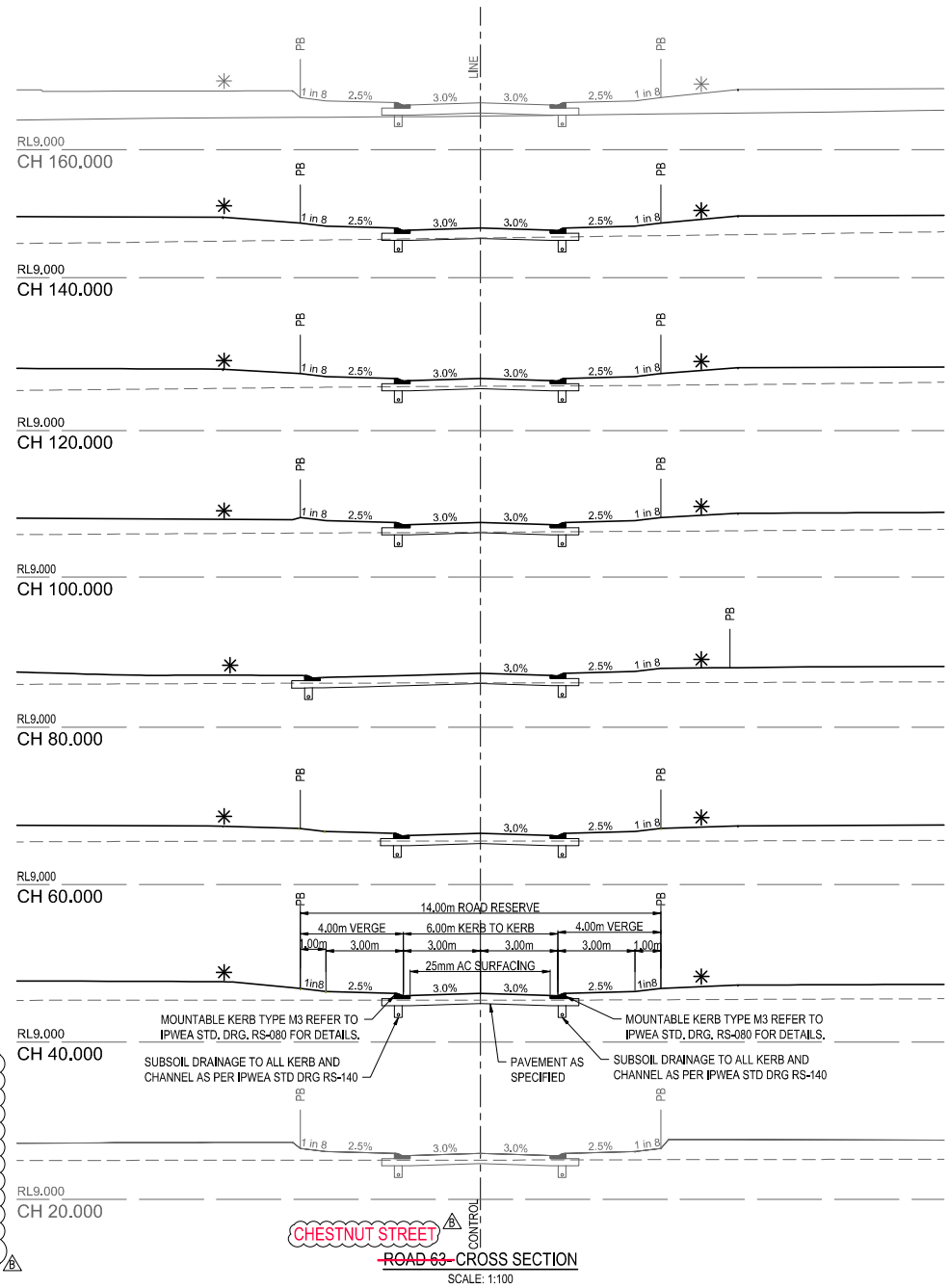


NOTE:
PROVIDE PROVIDED 2m² OF ROCK SCOUR PROTECTION TO ENDS OF KERB AND CHANNEL WHERE ROAD FALLS AWAY (TYPICAL)

CUT (-) / FILL	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGES	HORIZONTAL CURVES
0.000	10.420	10.420	10.895	10.247	0.000	R ₁
4.844	10.807	10.807	10.839	10.279	60.000	R ₂
9.819	10.813	10.813	10.879	10.813	66.007	R ₃
12.717	10.448	10.448	10.799	10.429	68.778	R ₄
17.313	10.088	10.088	10.776	10.084	80.000	R ₅
20.000	10.226	10.226	10.709	10.208	83.823	R ₆
38.100	10.622	10.622	10.680	10.708	87.414	R ₇
40.000	10.629	10.629	10.689	10.698	93.624	R ₈
					100.000	R ₉
					120.000	R ₁₀
					140.000	R ₁₁
					158.694	R ₁₂
					160.000	R ₁₃
					173.744	R ₁₄
					176.445	R ₁₅
					180.000	R ₁₆
					182.415	R ₁₇
					185.689	R ₁₈
					190.694	R ₁₉

REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

ROAD 63 - LONGITUDINAL SECTION
HORIZ SCALE: 1:100
VERTICAL SCALE: 1:100



ROAD 63 - CROSS SECTION
SCALE: 1:100

* REFER BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
SIGNED: [Signature] 20-05-2020
DANIEL COLLINS RPEQ 18631

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REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE
A	14.01.20	ISSUED FOR CONSTRUCTION	CH	CR		AS CONSTRUCTED	1:1000 1:2000	PEET CAROULTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 19A	ROAD 63 LONGITUDINAL AND CROSS SECTIONS
B	16.03.20	AS CONSTRUCTED	CR	CR			1:100 1:200	calibre calibregroup.com		

UW REF No. 2017011039s19A

PROJECT NO. 17-002277.3
DRAWING NO. 303
REVISION B

PRELIMINARY PAVEMENT DESIGN

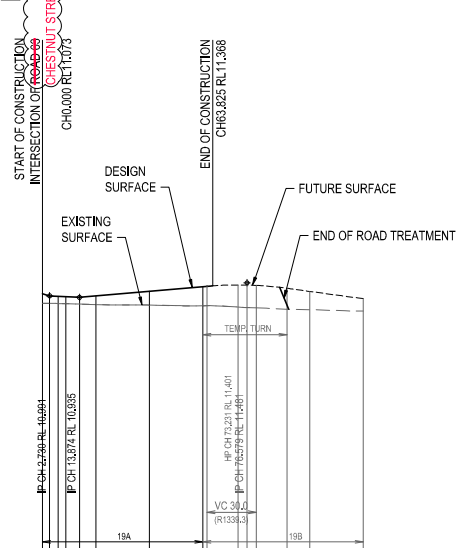
ROAD	SUBGRADE CBR	TRAFFIC ESA'S	ROAD CLASS	SURFACING (mm)	BASE (mm)	SUB-BASE (mm)	BLANKET (mm)	TOTAL BOX (mm)
ROAD 64 CH0,000 - CH63,825	3*	1 x 10 ⁴	RESIDENTIAL ACCESS (A1)	30	100	100	225	455

* ASSUMED SUBGRADE CBR

FINAL PAVEMENT DESIGN

ROAD	SUBGRADE CBR	TRAFFIC ESA'S	ROAD CLASS	SURFACING (mm)	BASE (mm)	SUB-BASE (mm)	BLANKET (mm)	TOTAL BOX (mm)
OXLEY STREET CH0,000 - CH63,825	9	4 x 10 ⁴	RESIDENTIAL ACCESS (A1)	30	100	100	220	450

ROAD 64 - LONGITUDINAL SECTION



PAVEMENT DESIGN NOTES:

- PRELIMINARY PAVEMENT DESIGNS ~~HAVE BEEN~~ WERE BASED ON THE ASSUMED SUBGRADE. ACTUAL PAVEMENT DESIGNS ~~WILL BE~~ WERE BASED ON TEST RESULTS TAKEN AFTER STRIPPING HAS BEEN COMPLETED.
- PRIMESEAL (10mm THICK) ~~IS TO BE~~ WAS PLACED UNDER ALL ASPHALT SURFACE COURSES
- ~~INCREASE~~ INCREASED A.C. THICKNESS BY 7mm IN AREAS OF STENCILLED ASPHALT.
- PLACED COMBGRID 30/30 450mm BELOW FINISHED SURFACE LEVEL AS DIRECTED BY SUPERINTENDENT WITHIN PROPOSED PAVEMENT DESIGN AT TIME OF CONSTRUCTION. COMBGRID ~~TO EXTEND~~ EXTENDS 500mm BEHIND BACK OF KERB.
- SUB-BASE AND BLANKET MATERIALS ~~TO BE~~ PLACED 500mm BEHIND BACK OF KERB.

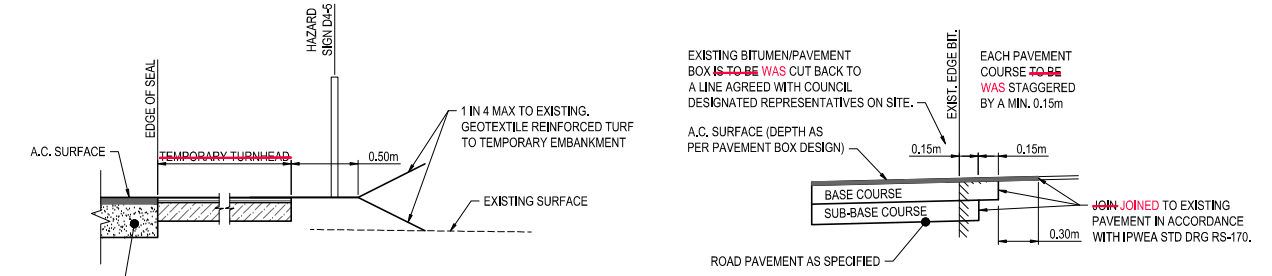
DATUM RL 0.0	CUT (-) / FILL	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGES	HORIZONTAL CURVES
	0.368 0.270 0.271 0.263 0.249 0.225	10.854 10.854 10.854 10.854 10.854 10.854	10.854 10.854 10.854 10.854 10.854 10.854	11.073 11.073 11.073 11.073 11.073 11.073	10.274 10.274 10.274 10.274 10.274 10.274	0.000 0.579 5.245 8.249 13.874 20.000 40.000 60.000 73.231 76.279 80.000 91.579 100.000 120.000	R30 H

REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

ROAD 64 - LONGITUDINAL SECTION

OXLEY STREET
HORIZ SCALE: 1000
VERTICAL SCALE: 100

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



END OF ROAD TREATMENT DETAIL

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

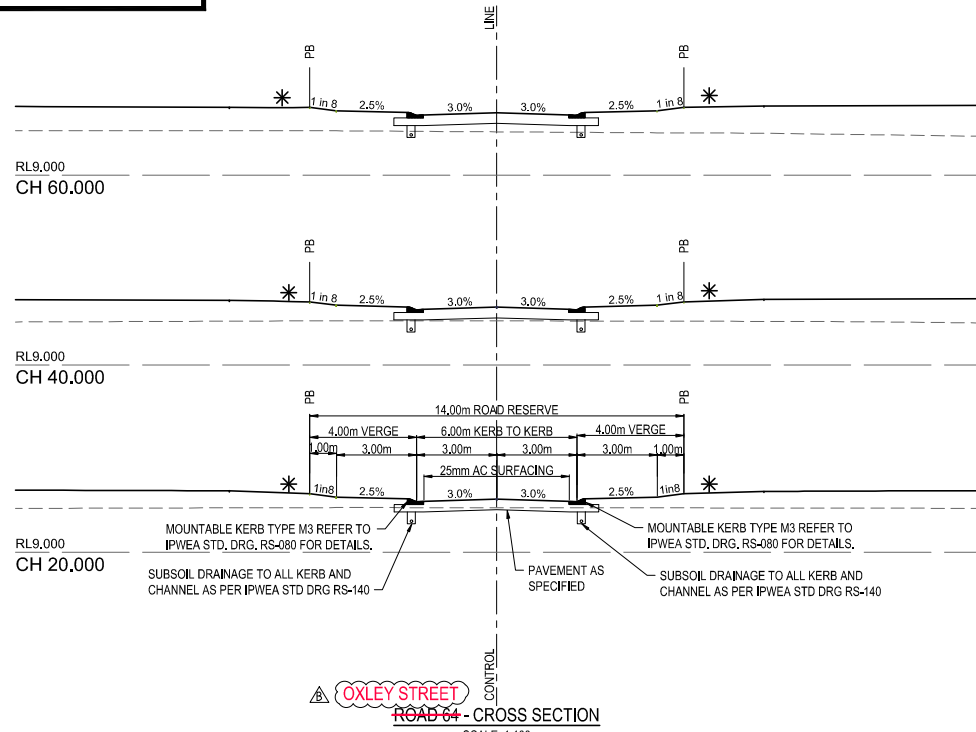
JOIN TO EXISTING PAVEMENT DETAIL

SCALE 1:20 (A1)
SCALE 1:40 (A3)
NOTE: REFER IPWEAQ RS-170 FOR PAVEMENT WIDENING DETAIL.

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
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SIGNED: DATE: 20.05-2020
DANIEL COLLINS RPEQ 18631

NOTE:
PROVIDE PROVIDED 2m² OF ROCK SCOUR PROTECTION TO ENDS OF KERB AND CHANNEL WHERE ROAD FALLS AWAY (TYPICAL)

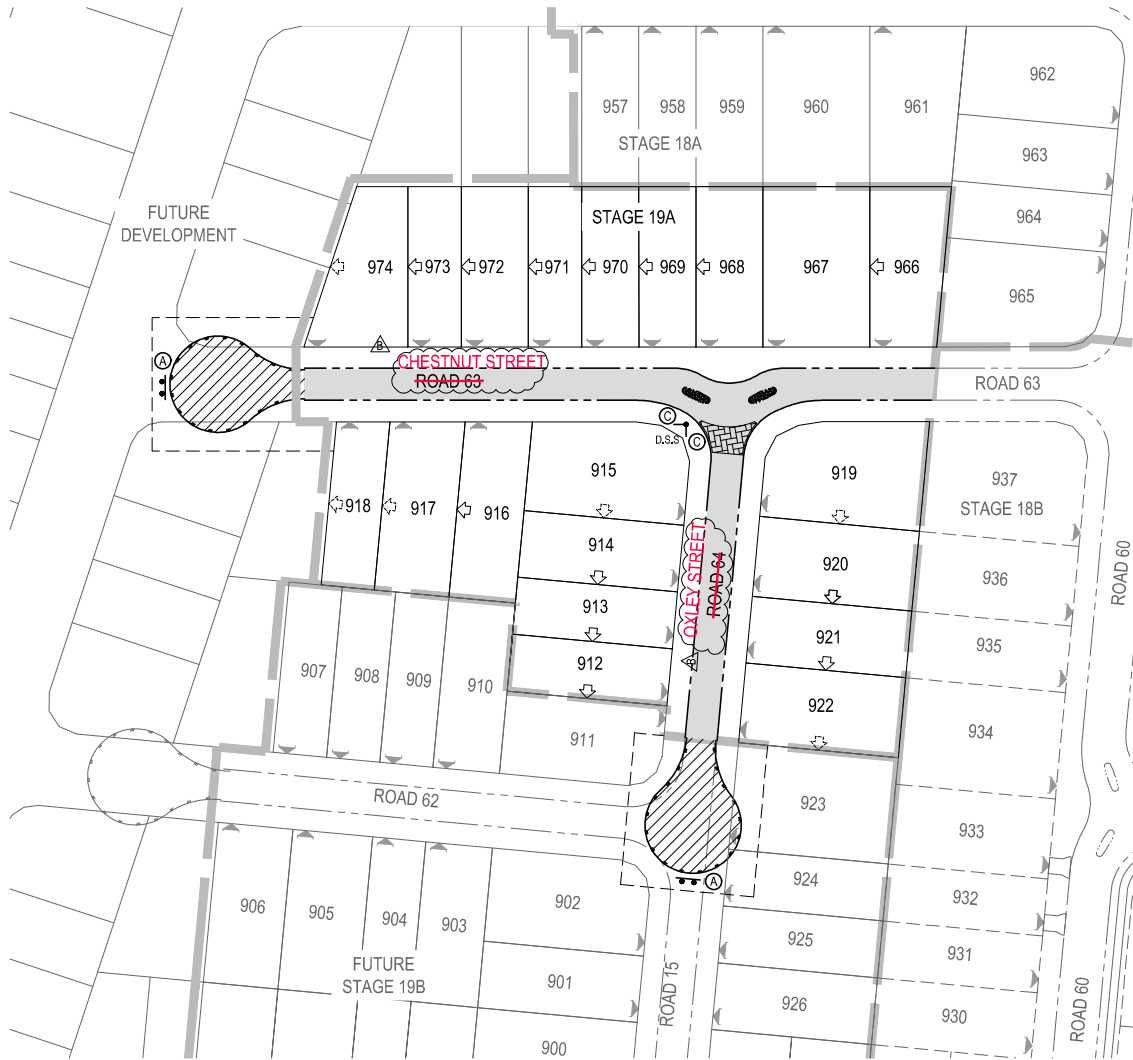


OXLEY STREET
ROAD 64 - CROSS SECTION
SCALE: 1:100
REFER BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS




REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CIENT	PROJECT	DRAWING TITLE	PROJECT NO.	DRAWING NO.	REVISION
A	14.01.20	ISSUED FOR CONSTRUCTION	DN	CR		AS CONSTRUCTED	1:1000 1:2000	PEET CAROOLTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 19A	ROAD 64 LONGITUDINAL AND CROSS SECTIONS	17-002277.3	304	B
B	06.04.20	AS CONSTRUCTED	CR	CR			1:100 1:200	calbre calbregroup.com					

UW REF No. 2017011039s19A



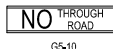

DISCLAIMER
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SIGN LEGEND

-  S.S SINGLE STREET NAME SIGN
-  D.S.S DOUBLE STREET NAME SIGN
-  ROAD SIGN WITH SIGN IDENTIFIER

SIGNS LEGEND


-  D4-5
(A)
-  R2-3A(L)
(B)
-  NO THROUGH ROAD
(C)
-  G5-10
(C)

NOTES:

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


PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
SIGNED..... DATE 20-05-2020
DANIEL COLLINS RPEQ 18631


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

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B	06.05.20	AS CONSTRUCTED	CR	CR		

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD

SCALE: 1:500 1:1000



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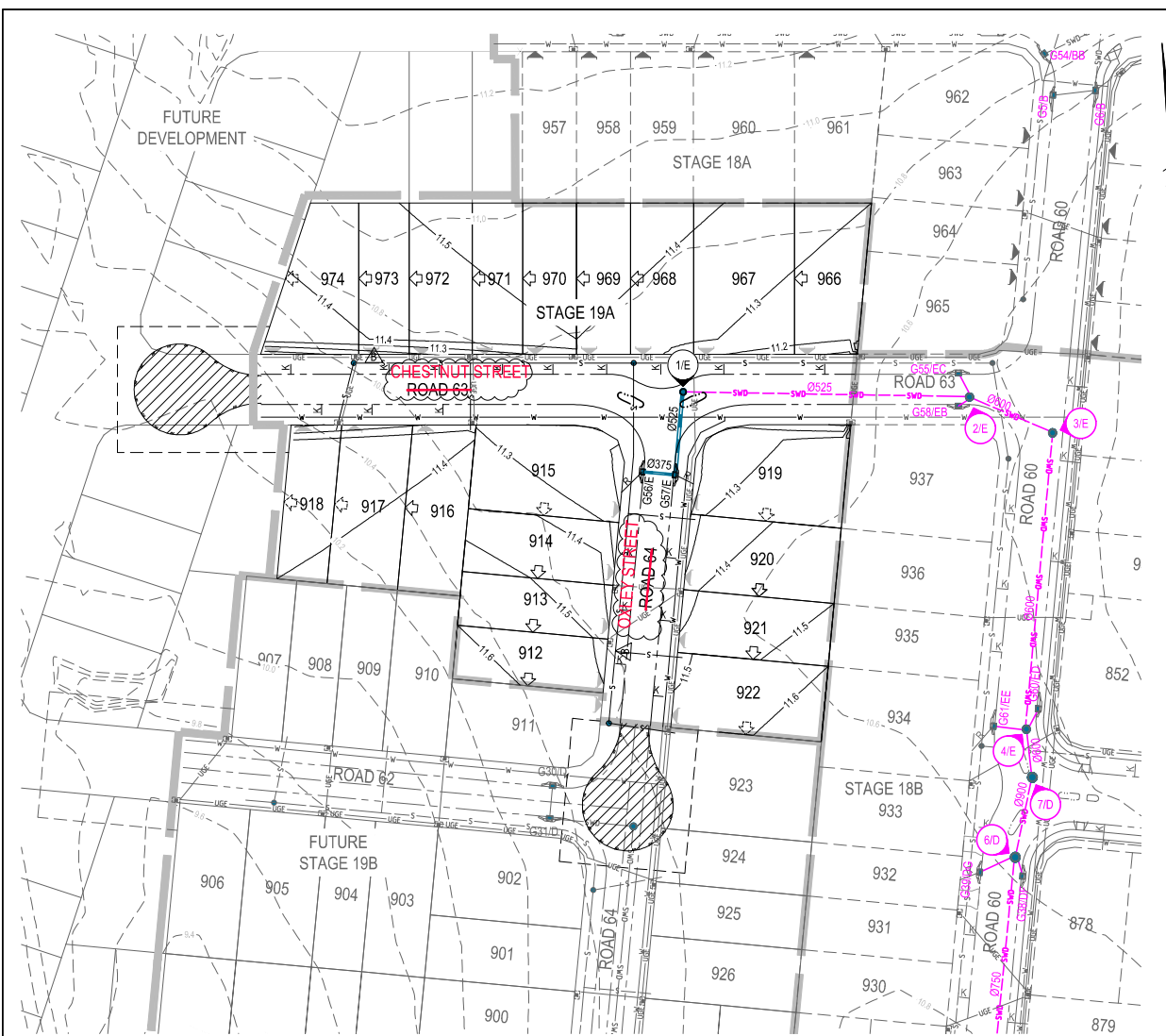
RIVERBANK ESTATE STAGE 19A

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SIGNS AND LINEMARKING LAYOUT PLAN

PROJECT NO. 17-002277.3
 DRAWING NO. 305
 REVISION B

UW REF No. 2017011039s19A



STORMWATER DRAINAGE NOTES

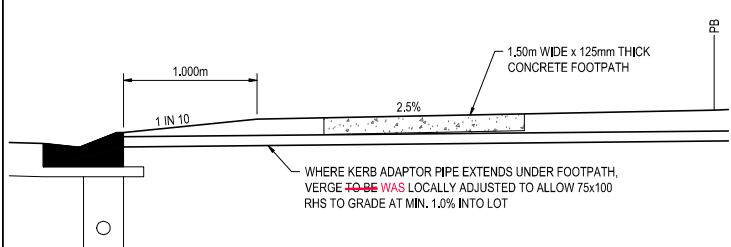
- ALL WORKS ~~SHALL BE WERE~~ CARRIED OUT IN ACCORDANCE WITH CURRENT C.S.C. STANDARD DRAWINGS AND METHODS.
- SIDE DRAINS ~~TO BE WERE~~ CONSTRUCTED UNDER ALL KERBS AND ALL KERB AND CHANNEL AND IN LOCATIONS DIRECTED BY THE SUPERINTENDENT IN ACCORDANCE WITH C.S.C. STANDARDS.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS ~~MAY BE~~ **HAVE** 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** TRANSITIONED NEATLY WITH THE PAVEMENT SO THAT DEVIATION FROM THE LINE OF A 3.0m STRAIGHT EDGE ~~SHALL BE IS~~ NO GREATER THAN 10mm.
- ALL STORMWATER PIPES UNDER ROADWAYS AND FOOTPATHS ~~SHALL BE~~ **ARE** RCP OR FRC CLASS 2.
- ALL STORMWATER PIPES UP TO AND INCLUDING 6000 ~~SHALL BE~~ **ARE** R.R.J. STORMWATER PIPES GREATER THAN 6000 ~~SHALL BE~~ **ARE** INTERNAL FLUSH JOINTED WITH PROPRIETARY EXTERNAL BAND.
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- ~~PROVIDE~~ 'B' GRADE TURNING **PROVIDED** TO OUTLETS AS DIRECTED BY THE SUPERINTENDENT.
- ALL EXCAVATION AND FILLING ~~SHALL BE~~ **WAS** COMPACTED TO THE REQUIREMENTS OF AS3798-2007 IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF DEMOLISHING ANY EXISTING STRUCTURES WITHIN THE SITE AREAS.
- THE STORMWATER PIPE CLASSES HAVE BEEN 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 WERE~~ PROGRAMMED SO AS NOT TO DISTURB NEARBY HOUSEHOLDERS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES.
- ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- UNLESS DIMENSIONED OTHERWISE, MANHOLE LOCATION IN ROADWAYS TO BE THE FOLLOWING:
1.50m OFF KERB INVERT FOR 6.00m WIDE ROADS
2.00m OFF KERB INVERT FOR 8.00m WIDE ROADS AND GREATER

LEGEND

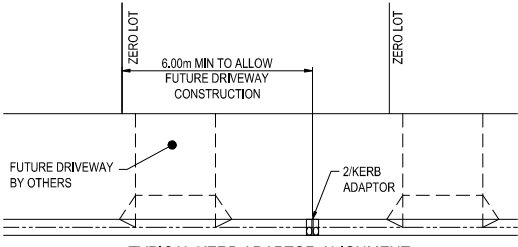
- PROPOSED** STAGE BOUNDARY
- PROPOSED** STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- FUTURE STORMWATER DRAINAGE
- KERB ADAPTOR
- ROOFWATER ADAPTOR
- PROPOSED** SLEEPER RETAINING WALL
- PROPOSED** MOUNTABLE KERB & CHANNEL TYPE 'M3'
- PROPOSED** BARRIER KERB AND CHANNEL TYPE 'B1'
- PROPOSED** SEWERAGE RETICULATION
- PROPOSED** WATER RETICULATION
- EXISTING SURFACE CONTOUR (0.1m INTERVALS)
- DESIGN SURFACE CONTOUR (0.1m INTERVALS)
- INDICATIVE DRIVEWAY LOCATIONS
- MANDATORY ZERO LOT BOUNDARY
- NOMINAL ZERO LOT BOUNDARY
- PROPOSED** ENERXEG LINE UNDERGROUND
- PROPOSED** ELECTRICAL PIT
- PROPOSED** NBN PITS

NOTE:
ALL STORMWATER PIPES ARE 375Ø UNLESS SHOWN OTHERWISE.

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.



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



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

ROOFWATER NOTES

- ENDS OF PIPES AND STUBS ~~TO BE~~ **ARE** 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 **IS PROVIDED** (2 PER LOT).
- ROOFWATER CONNECTIONS TO MANHOLES AND GULLIES ~~TO BE~~ **ARE** 150Ø UPVC S/N6 AT 1.0% MINIMUM WITH 1.00m MIN. COVER WITHIN THE VERGE

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AS CONSTRUCTED DETAILS
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SIGNED: _____ DATE 20-05-2020
DANIEL COLLINS RPEQ 18631

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UW REF NO. 2017011039S19A

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	14.01.20	ISSUED FOR CONSTRUCTION	CH	CR		
B	06.05.20	AS CONSTRUCTED	CR	CR		

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

FOR & ON BEHALF OF CALBRE CONSULTING (OLD) PTY LTD

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

PEET
CAROOLTURE SYNDICATE LTD

calbre group.com

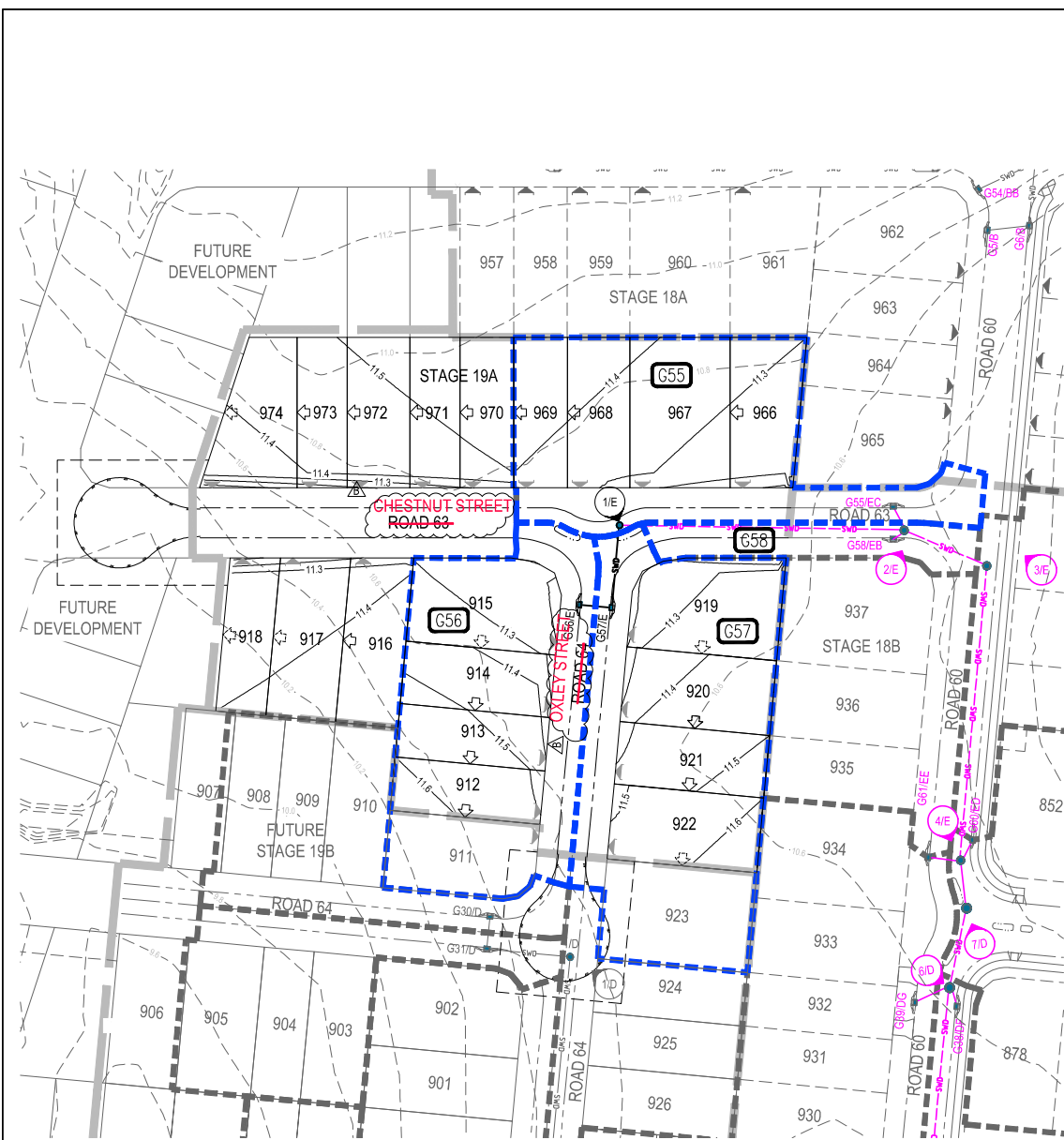
RIVERBANK ESTATE STAGE 19A

CLIENT: RIVERBANK ESTATE STAGE 19A

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

STORMWATER DRAINAGE LAYOUT PLAN

PROJECT NO. 17-002277.3
DRAWING NO. 400
REVISION B



LEGEND

- PROPOSED STAGE BOUNDARY
- G20 CATCHMENT NAME
- CATCHMENT BOUNDARY
- FUTURE CATCHMENT BOUNDARY
- PROPOSED STORMWATER DRAINAGE
- FUTURE STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- EXISTING SURFACE CONTOUR (0.2m INTERVALS)
- DESIGN SURFACE CONTOUR (0.1m INTERVALS)
- PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
- PROPOSED BARRIER KERB & CHANNEL TYPE B1

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	0.200	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	0.200	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

CATCHMENT TABLE

CATCHMENT NAME	CATCHMENT AREA (Ha)
G56	0.256
G57	0.297
G58	0.049
G55	0.244

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF CALBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
SIGNED: _____ DATE 20-05-2020
DANIEL COLLINS RPEQ 18631

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

REVISION	DATE	ISSUE DETAILS
A	14.01.20	ISSUED FOR CONSTRUCTION
B	06.04.20	AS CONSTRUCTED

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

 FOR & ON BEHALF OF CALBRE CONSULTING (OLD) PTY LTD

SCALE: 1:500 (0 10 20 A1), 1:1000 (0 10 20 A3)

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RIVERBANK ESTATE STAGE 19A

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

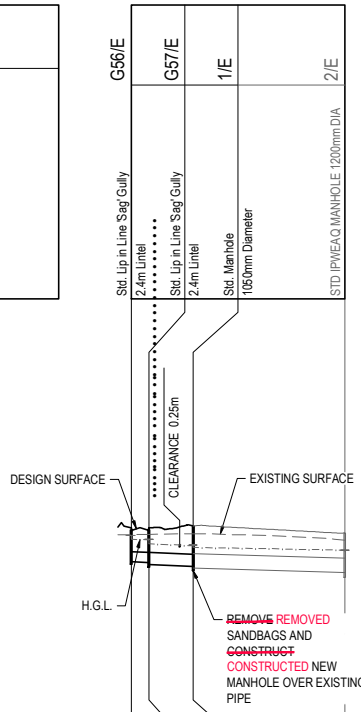
STORMWATER DRAINAGE CATCHMENT PLAN

PROJECT NO: 17-002277.3
 DRAWING NO: 401
 REVISION: B

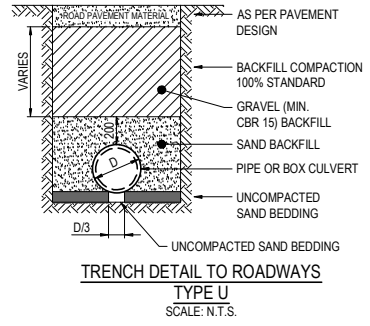
UW REF No. 2017011039s19A

STRUCTURE NAME

STRUCTURE DESCRIPTION



PIPE SIZE (mm Class)	375(3)	450(3)	525(3)
PIPE GRADE %	0.61%	0.52%	0.30%
PIPE SLOPE 1 in X	163.93	192.31	333.33
FULL PIPE FLOW VELOCITY (m/s)	0.80	1.19	0.85
PART FULL FLOW VELOCITY (m/s)			
DATUM R/L -2.0			
WATER LEVEL IN STRUCTURE	10.654	10.511	10.102
HYDRAULIC GRADE LEVEL	10.654	10.485	10.102
PIPE FLOW (Cumecs)	0.088	0.190	0.190
DEPTH TO INVERT	1.494	1.270	1.479
INVERT LEVEL OF DRAIN	9.474	9.651	9.432
DESIGN SURFACE LEVEL	10.660	10.670	10.744
SETOUT	E5574.243	N2949.870	N2966.198
RUNNING CHAINAGE	0.000	56.793	79.921



TRENCH NOTES:

- TYPICAL TYPE U TRENCH TO CABOOLTURE SHIRE COUNCIL STANDARD DRAWING 01-83.
- ALL WORKS **SHALL BE WERE** CONSTRUCTED IN ACCORDANCE WITH MAIN ROADS SPECIFICATIONS FOR ROADWORKS WITH THE EXCEPTION OF ASPHALT SURFACING FOR ACCESS AND COLLECTOR ROADS WHICH **SHALL BE ARE** IN ACCORDANCE WITH BRISBANE CITY COUNCIL SPECIFICATIONS 5310 (SUPPLY OF DENSE GRADED ASPHALT) AND 5320 (LAYING OF ASPHALT)

NOTE: WHERE DISCREPANCY OCCURS BETWEEN THE DESIGN AND DEVELOPMENT MANUAL AND THE ABOVE SPECIFICATIONS, THE PROVISIONS OF THE DESIGN MANUAL SHALL APPLY.

CV = CHARACTERISTICS VALUE
DOS = DEGREE OF SATURATION FOR BASE (FINAL) LAYER

NOTES:

- NOTWITHSTANDING THE STORMWATER STRUCTURE LEVELS SHOWN, THE COVER OR GRATE LEVEL **SHALL NOT BE** SUITED TO 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 WERE NOT** ACCEPTED. REFER CONSTRUCTION EQUIPMENT LOADING TABLE ON DRG 17-002277.3-401

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

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

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

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

SIGNED: DATE: 20-05-2020
DANIEL COLLINS' RPEQ 18631

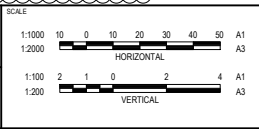
* The original issue or last amendment of this drawing contained the original signature.

REVISION	DATE	ISSUE DETAILS	DRWN	DESIGN	DESIGN CHECK	STATUS
A	14.01.20	ISSUED FOR CONSTRUCTION	CH	CR		
B	06.05.20	AS CONSTRUCTED	CR	CR		

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD



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PROJECT

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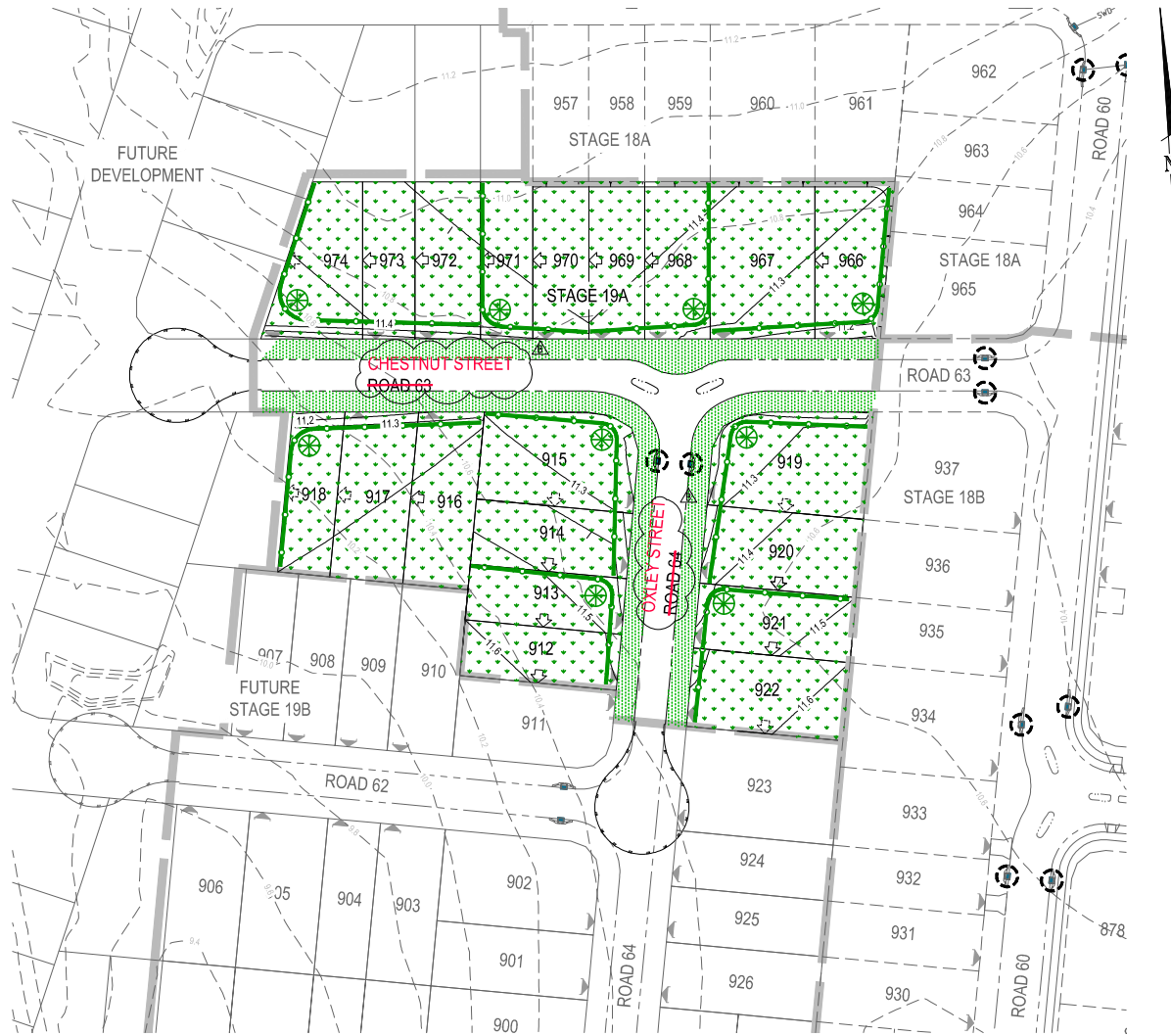
PROJECT

RIVERBANK ESTATE STAGE 19A

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

UW REF No. 2017011039s19A

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS		
PROJECT No.	DRAWING No.	REVISION
17-002277.3	402	B



LEGEND	
	SITE BOUNDARY
	PROPOSED SURFACE CONTOUR (0.1m INTERVALS)
	EXISTING SURFACE CONTOUR (0.2m INTERVALS)
	TEMPORARY CONSTRUCTION EXIT WASHDOWN DEVICE
	PROPOSED DIRTY WATER DIVERSION DRAIN
	PROPOSED SEDIMENT FENCE
	TURFING/LANDSCAPING VERGE IN ACCORDANCE WITH LANDSCAPE PLAN
	STABILISED SURFACE (HYDROMULCH, MULCH OR SEED TO ALLOTMENTS)
	PROPOSED BIO-RETENTION TO BE USED AS TEMPORARY SEDIMENT TRENCH
	GULLET INLET PROTECTION

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL AND MINIMISE EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
2. NOTWITHSTANDING THE DESIGN SHOWN ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT SEDIMENT CONTROL DEVICES USING BEST PRACTICES AS NECESSARY TO MINIMISE THE QUANTITY OF SEDIMENT LEAVING THE SITE.
3. SOME VARIATIONS TO THE SPECIFIED CONSTRUCTION SEQUENCE MAY BE NECESSARY IN CERTAIN AREAS TO FACILITATE CONSTRUCTION, WHERE THIS IS THE CASE, ANY VARIATION MUST BE APPROVED BY THE SUPERINTENDENT PRIOR TO IMPLEMENTATION.
4. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION GULLY INLETS.
5. CLEARING OF SITE AND STOCKPILE SITE ~~TO BE~~ WAS DETERMINED ON SITE BY SUPERINTENDENT AND ~~IS TO BE~~ WAS CLEAR OF ANY WATER COURSE.
6. WHERE POSSIBLE ~~PROVIDE~~ PROVIDED CUT-OFF DRAINS TO DIVERT CLEAN WATER FROM UNDISTURBED CATCHMENT.
7. ALL PERIMETER BANKS/SWALES ~~SHALL HAVE~~ HAD UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
8. ~~CONSTRUCT~~ CONSTRUCTED WASH DOWN BAY OR SHAKE DOWN AT ENTRY/EXIT TO COUNCIL STANDARDS AND TO THE SATISFACTION OF COUNCIL'S LICENSING AND COMPLIANCE OFFICER.
9. INLETS ~~TO HAVE~~ HAD SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS DIRECTED BY THE SUPERINTENDENT.
10. THE EXTENT OF GRASSING OR HYDROMULCHING ~~BE~~ WAS DETERMINED BY THE ENGINEER AND ~~SHALL BE~~ WAS SEEDED, AS SPECIFIED, WITHIN SEVEN DAYS OF FINAL TRIMMING.
11. THE CONTRACTOR ~~SHALL BE~~ WAS RESPONSIBLE FOR COMPLYING WITH COUNCIL'S REQUIREMENTS IN RELATION TO GRASS STRIKE AND GRASS COVERAGE RATES AT THE ON AND OFF MAINTENANCE INSPECTIONS.
12. ~~PROVIDE~~ PROVIDED TURF STRIPS OVER SEWER/ROOFWATER LINES WHERE ADJACENT TO EXISTING PROPERTIES.
13. ALL SEDIMENT FENCES ~~TO BE~~ WERE INSTALLED TO THE SATISFACTION OF COUNCIL'S LICENSING AND COMPLIANCE OFFICER.
14. ALL OPEN ENDED PIPEWORK LOCATED IN OPEN TRENCHES AND INCOMPLETE PITS ~~ARE TO BE~~ WERE CAPPED WITH SUITABLE FILTER CLOTH AT THE END OF EACH DAY'S WORK AND IMMEDIATELY PRIOR TO STORMS.
15. ALL MATERIALS TRACKED OR SEDIMENT WASHED ONTO COUNCIL'S ROAD FROM THE DEVELOPMENT ~~ARE TO BE~~ WERE BROOMED UP AND COLLECTED.
16. ALL SEDIMENT CONTROL DEVICES ~~SHALL BE~~ WERE MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE CAPACITY OF THE EROSION AND SEDIMENT CONTROL MEASURE ~~FALLS~~ FEEL BELOW 75%.
17. ALL EROSION AND SEDIMENT CONTROL MEASURES ~~SHALL BE~~ WERE INSPECTED AT LEAST DAILY (WHEN WORK ~~IS OCCURRING~~ OCCURRED ON SITE) OR WEEKLY (WHEN WORK ~~IS NOT OCCURRING~~ DID NOT OCCUR ON SITE), WITHIN 24 HOURS OF EXPECTED RAIN AND WITHIN 18 HOURS OF A RAINFALL EVENT AS REQUIRED TO MAINTAIN CONTROL DEVICES.
18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) MEASURES ~~ARE TO BE~~ WERE MAINTAINED AND FULLY OPERATIONAL DURING THE MAINTENANCE PERIOD, AND ~~ARE TO BE~~ WERE REMOVED AFTER THE SATISFACTORY COMPLETION OF AN 'OFF MAINTENANCE' INSPECTION AND PRIOR TO FORMAL ACCEPTANCE BY COUNCIL.
19. NO OBSTRUCTIONS ~~SHALL BE~~ WERE PLACED ON COUNCIL'S PUBLIC ROADS OR GULLY PITS FOR SAFETY REASONS.

~~PROVIDE~~ PROVIDED 'SPILL THROUGH WEIR' IN SEDIMENT FENCE. 'SPILL THROUGH WEIR' ~~TO BE~~ WAS GENERALLY IN ACCORDANCE WITH SILT FENCE DETAIL WITH GEOTEXTILE FABRIC ~~TO BE~~ WAS WRAPPED AROUND STAR PICKET PLACED HORIZONTALLY APPROX. 400mm ABOVE FINISHED SURFACE.

NOTES:
 1. REFER DRG No. 801 FOR NOTES & DETAILS
 2. ~~PROVIDE~~ PROVIDED TEMPORARY APPROVED CHILD RESISTANT FENCE AROUND PERIMETER OF TEMPORARY SEDIMENT BASINS/TRENCHES TO MANUFACTURER'S SPECIFICATION.

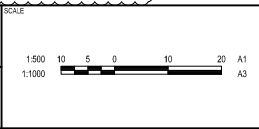
~~THE EROSION & SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION & SEDIMENTATION CONTROL FOR THE SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AN EROSION & SEDIMENT CONTROL DESIGN AND A COMPLETED DESIGN CERTIFICATE PRIOR TO COMMENCEMENT OF WORK. CERTIFICATION MUST BE UNDERTAKEN BY A SUITABLY QUALIFIED, EXPERIENCED PROFESSIONAL NOT DIRECTLY EMPLOYED BY THE PRINCIPAL.~~

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.
 AS CONSTRUCTED DETAILS I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: _____ DATE: 20-05-2020
 DANIEL COLLINS RPEQ 18631

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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	14/01/20	ISSUED FOR CONSTRUCTION	DN	CR		
B	06/23/20	AS CONSTRUCTED	CR	CR		

AS CONSTRUCTED
 APPROVED: DANIEL COLLINS RPEQ 18631
 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD

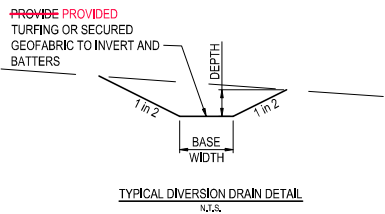
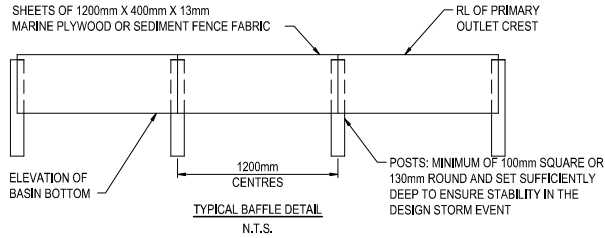
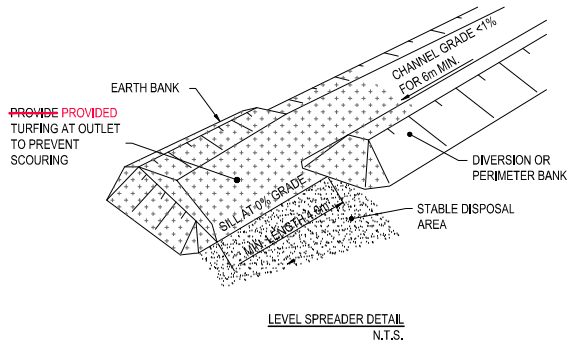


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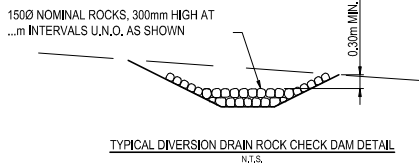
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 calbregroup.com

PROJECT		DRAWING TITLE	
RIVERBANK ESTATE STAGE 19A		SEDIMENT AND EROSION LAYOUT PLAN	
DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.	PROJECT NO. 17-002277.3	DRAWING NO. 800	REVISION B

UW REF No. 2017011039s19A

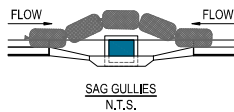
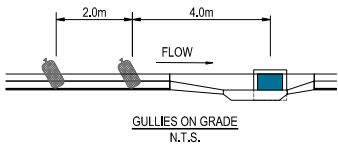
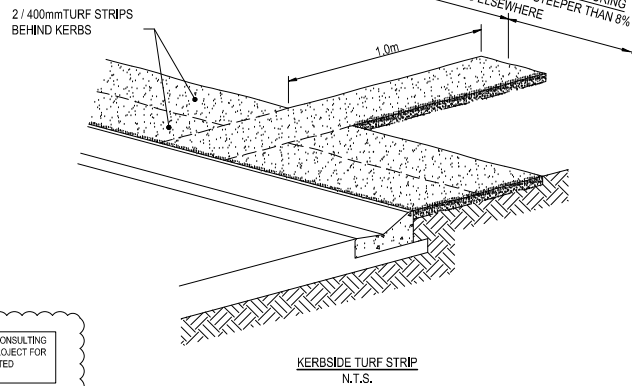


DRAIN TYPE	BASE WIDTH	DEPTH	MIN SLOPE
DIRTY A1	...m	...m	...%
DIRTY A2	...m	...m	...%
DIRTY B1	...m	...m	...%
DIRTY B1	...m	...m	...%

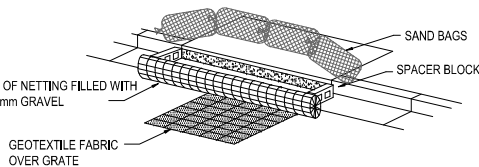


PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

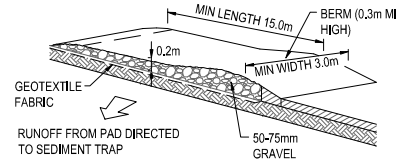
AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF CALBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
SIGNED: DANIEL COLLINS DATE: 30-05-2020
DANIEL COLLINS RPEQ 18631



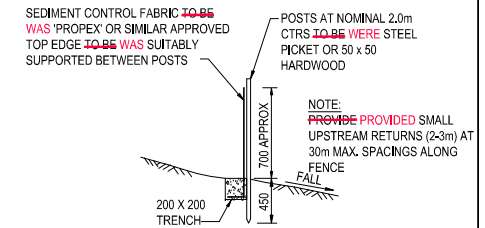
SANDBAGS AT GULLIES TO BE PROVIDED AT ALL GULLIES



KERB INLET PROTECTION SAG GULLIES N.T.S.



TEMPORARY CONSTRUCTION EXIT WASHDOWN DEVICE N.T.S.



SEDIMENT FENCE DETAIL N.T.S.

EROSION AND SEDIMENT CONTROL NOTES:

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- NOTWITHSTANDING THE DESIGN SHOWN ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT SEDIMENT CONTROL DEVICES USING BEST PRACTICES AS NECESSARY TO MINIMISE THE QUANTITY OF SEDIMENT LEAVING THE SITE.
- SOME VARIATIONS TO THE SPECIFIED CONSTRUCTION SEQUENCE MAY BE NECESSARY IN CERTAIN AREAS TO FACILITATE CONSTRUCTION, WHERE THIS IS THE CASE, ANY VARIATION MUST BE APPROVED BY THE SUPERINTENDENT PRIOR TO IMPLEMENTATION.
- AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION GULLY INLETS.
- CLEARING OF SITE AND STOCKPILE SITE TO BE WAS DETERMINED ON SITE BY SUPERINTENDENT AND IS TO BE WAS CLEAR OF ANY WATER COURSE.
- WHERE POSSIBLE **PROVIDE PROVIDED** CUT-OFF DRAINS TO DIVERT CLEAN WATER FROM UNDISTURBED CATCHMENT.
- ALL PERIMETER BANKS/SWALES **SHALL HAVE HAD** UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- CONSTRUCT CONSTRUCTED** WASH DOWN BAY OR SHAKE DOWN AT ENTRY/EXIT TO COUNCIL STANDARDS AND TO THE SATISFACTION OF COUNCIL'S LICENSING AND COMPLIANCE OFFICER.
- INLETS **TO HAVE HAD** SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS DIRECTED BY THE SUPERINTENDENT.
- THE EXTENT OF GRASSING OR HYDROMULCHING **BE WAS** DETERMINED BY THE ENGINEER AND **SHALL BE WAS** SEEDED, AS SPECIFIED, WITHIN SEVEN DAYS OF FINAL TRIMMING.
- THE CONTRACTOR **SHALL BE WAS** RESPONSIBLE FOR COMPLYING WITH COUNCIL'S REQUIREMENTS IN RELATION TO GRASS STRIKE AND GRASS COVERAGE RATES AT THE ON AND OFF MAINTENANCE INSPECTIONS.
- PROVIDE PROVIDED** TURF STRIPS OVER SEWER/ROOF/WATER LINES WHERE ADJACENT TO EXISTING PROPERTIES.
- ALL SEDIMENT FENCES **TO BE WERE** INSTALLED TO THE SATISFACTION OF COUNCIL'S LICENSING AND COMPLIANCE OFFICER.
- ALL OPEN ENDED PIPEWORK LOCATED IN OPEN TRENCHES AND INCOMPLETE PITS **ARE TO BE WERE** CAPPED WITH SUITABLE FILTER CLOTH AT THE END OF EACH DAY'S WORK AND IMMEDIATELY PRIOR TO STORMS.
- ALL MATERIALS TRACKED OR SEDIMENT WASHED ONTO COUNCIL'S ROAD FROM THE DEVELOPMENT **ARE TO BE WERE** BROOMED UP AND COLLECTED.
- ALL SEDIMENT CONTROL DEVICES **SHALL BE WERE** MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE CAPACITY OF THE EROSION AND SEDIMENT CONTROL MEASURE **FALLS FELL** BELOW 75%.
- ALL EROSION AND SEDIMENT CONTROL MEASURES **SHALL BE WERE** INSPECTED AT LEAST DAILY (WHEN WORK **IS OCCURRING OCCURRED** ON SITE) OR WEEKLY (WHEN WORK **IS NOT OCCURRING DID NOT OCCUR** ON SITE), WITHIN 24 HOURS OF EXPECTED RAIN AND WITHIN 18 HOURS OF A RAINFALL EVENT AS REQUIRED TO MAINTAIN CONTROL DEVICES.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL (ESC) MEASURES **ARE TO BE WERE** MAINTAINED AND FULLY OPERATIONAL DURING THE MAINTENANCE PERIOD, AND **ARE TO BE WERE** REMOVED AFTER THE SATISFACTORY COMPLETION OF AN 'OFF MAINTENANCE' INSPECTION AND PRIOR TO FORMAL ACCEPTANCE BY COUNCIL.
- NO OBSTRUCTIONS **SHALL BE WERE** PLACED ON COUNCIL'S PUBLIC ROADS OR GULLY PITS FOR SAFETY REASONS.

* 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	
A	14.01.20	ISSUED FOR CONSTRUCTION	DN	CR						RIVERBANK ESTATE STAGE 19A	SEDIMENT AND EROSION DETAILS
B	06.05.20	AS CONSTRUCTED	DN	CR			AS CONSTRUCTED					PROJECT NO: 17-002277.3 DRAWING NO: 801 REVISION: B
DESIGN CHECK APPROVED: DANIEL COLLINS RPEQ 18631 FOR & ON BEHALF OF CALBRE CONSULTING (OLD) PTY LTD							URBAN REF NO. 2017011039S19A				

RIVERBANK ESTATE

LOT 1008 MARKET DRIVE CABOOLTURE SOUTH
 STAGE 19A
 FOR PEET CABOOLTURE SYNDICATE LTD



LOCALITY PLAN
 NTS

MORETON BAY REGIONAL COUNCIL

AREA OF SITE: 1.12ha

LOT INFORMATION

EXISTING LOTS
 LOT 1007 SP295486
 LOT 1008 SP295486
 PROPOSED NO. OF LOTS: 20

DRAWING INDEX

DRAWING NO.	DRAWING TITLE
GENERAL	
000	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
BULK EARTHWORKS	
200	BULK EARTHWORKS LAYOUT PLAN
201	BULK EARTHWORKS SECTIONS
202	COMPENSATORY EARTHWORKS LAYOUT PLAN
ROADWORKS	
300	SURVEY SETOUT LAYOUT PLAN & TABLES
301	ROADWORKS LAYOUT PLAN
302	INTERSECTIONS DETAILS PLAN
303	CHESTNUT STREET ROAD 63 LONGITUDINAL AND CROSS SECTIONS
304	OXLEY STREET ROAD 64 LONGITUDINAL AND CROSS SECTIONS
305	SIGNS AND LINEMARKING LAYOUT PLAN
DRAINAGE	
400	STORMWATER DRAINAGE LAYOUT PLAN
401	STORMWATER DRAINAGE CATCHMENT PLAN
402	STORMWATER DRAINAGE LONGITUDINAL SECTIONS
403	STORMWATER DRAINAGE CALCULATIONS SHEET
SEWER RETICULATION	
500	SEWER RETICULATION COVER SHEET
501	SEWER RETICULATION LAYOUT PLAN
502	SEWER RETICULATION LONGITUDINAL SECTIONS
WATER RETICULATION	
600	WATER RETICULATION COVER SHEET
601	WATER RETICULATION LAYOUT PLAN
EROSION AND SEDIMENT PLAN	
800	SEDIMENT AND EROSION LAYOUT PLAN
801	SEDIMENT AND EROSION DETAILS

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: DANIEL COLLINS RPED 18631 DATE 12-05-2020

CONSTRUCTION NOTE

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
- SEDIMENT AND EROSION HAZARD ASSESSMENT (PREPARED BY SOIL SURVEYS)
 - ACID SULPHATES SOILS REPORT (PREPARED BY SOIL SURVEYS)
 - GEOTECHNICAL REPORT (PREPARED BY SOIL SURVEYS)
 - VEGETATION MANAGEMENT PLAN (VMP) (PREPARED BY SAUNDERS HAVILL GROUP)
 - ENVIRONMENTAL MANAGEMENT PLAN (EMP) (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 WERE** POURED, FURTHER CONSTRUCTION **SHALL DID** NOT PROCEED UNTIL THE SUPERINTENDENT AND OR ENGINEER **HAVE** INSPECTED THE WORKS FOR FINISHED LEVELS AND APPROVED CONSTRUCTION TO CONTINUE.

CONSTRUCTION HOLD POINT

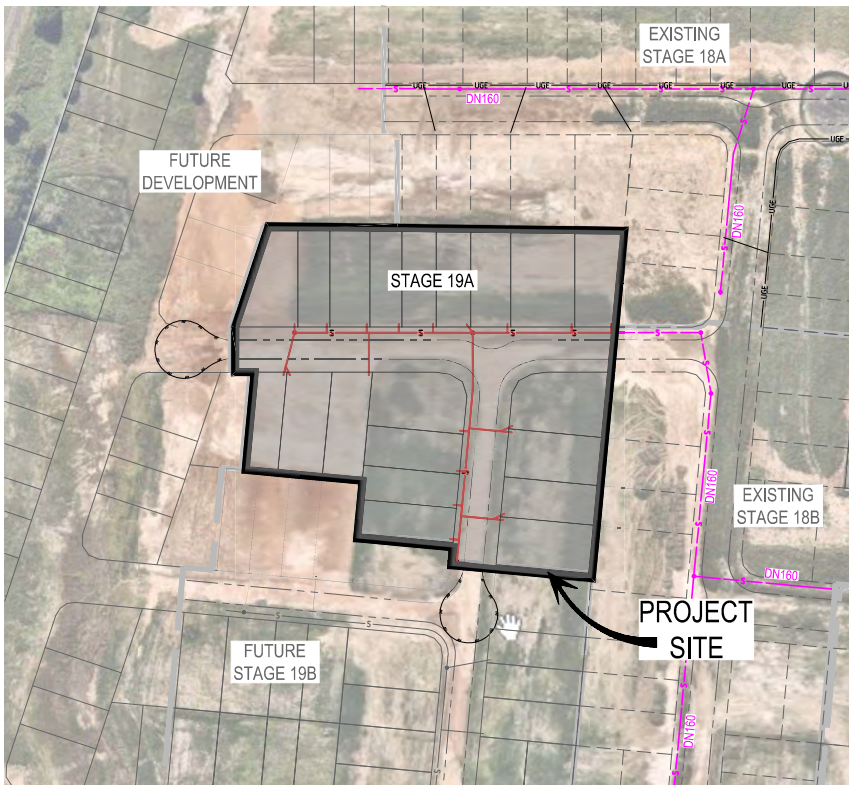
PRIOR TO CONSTRUCTION THE CONTRACTOR **SHALL VERIFY** VERIFIED LEVELS OF ALL EXISTING CROSSINGS AND CONNECTION POINTS.

RIVERBANK ESTATE

STAGE 19A

M.B.R.C. REF No. DA/34784/2017/V3RL

Project No.:	Stage:	Milestone:	Revision Date:	Drawing No.:	Revision:
17-002277.3	19A	AS	06.05.20	000	B
CONSTRUCTED					



LOCALITY PLAN
N.T.S.

NAME OF ESTATE		RIVERBANK ESTATE
SUBDIVIDER		PEET CABOOLTURE SYNDICATE
APPLICATION No.		2017011039s19A
SP DELEGATE		**
APPROVAL DATE		**
DRAWING/PLAN No.		17-002277.3 - 500-502
No. OF LOTS		20
AREA IN Ha.		11.54ha
LENGTH	DN110	**
OF SEWERS	DN160	252.781

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

CALIBRE CONSULTING (QLD) PTY LTD
CONTACT
DANIEL COLLINS
TELEPHONE
(07) 3895 3444

SEWER RETICULATION NOTES

- ALL WORK AND MATERIALS **SHALL BE WERE** IN ACCORDANCE WITH FOLLOWING CURRENT SPECIFICATIONS AND STANDARDS (IN ORDER OF PRIORITY):
- SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ-SP's)
- SEWERAGE CODE OF AUSTRALIA WSA02-2014 V3.1.
- UNLESS SPECIFIED OTHERWISE, ALL WORK AND MATERIALS **SHALL COMPLY COMPLIED** WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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.
- ALL WORK ON EXISTING SEWERS TO BE CARRIED OUT BY UNITYWATER AT THE DEVELOPERS EXPENSE, OR AS DIRECTED BY UNITYWATER.
- ALL PIPES AND MATERIALS **SHALL COMPLY COMPLIED** WITH THE REQUIREMENTS OF THE 'ACCEPTED PRODUCTS AND MATERIALS' LIST.
- EACH ALLOTMENT **SHALL BE IS** SERVED BY A DN110 PE (OR DN100 uPVC) PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE (OR DN150 uPVC) PROPERTY CONNECTION **SHALL BE WAS** PROVIDED.
- PROPERTY CONNECTIONS **SHALL BE ARE** LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES **SHALL EXTEND EXTENDED** INTO THE PROPERTY A MINIMUM OF 300mm (QUU, GCCC, LCC & RCC) OR 500mm (UNITY WATER) AND A MAXIMUM OF 750mm.
- WHERE PIPES **ARE WERE** 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 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 PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS **SHALL BE WERE** CONSTRUCTED IN ACCORDANCE WITH THE SEQ-SP's.
- THE CONTRACTOR SHALL VERIFY 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.

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 REMAINED** TO COMPLETION.
 - WHERE POSSIBLE, TREE ROOTS **SHOULD BE WERE** TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS **ARE WERE** 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.

LIVE WORKS TABLE

NO.	DESCRIPTION	SEW DIA	MH No.	MH/M5 TYPE	COVER TYPE	LOT No.	F.S.L.	E.S.L.	ILL.	DEPTH
1(A)	5.00m FROM EXISTING STUB, CONTRACTOR, TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY UNITYWATER.	DN160PE	16/1	END	-	966	10,928	10,631	8,492	2,436m
1(B)	AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION UNITYWATER TO CARRY OUT WORKS ASSOCIATED WITH PROPOSED LIVE CONNECTIONS AND CONNECTION TO EXISTING DN160 STUB.									
1(C)	AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION UNITYWATER TO CARRY OUT WORKS ASSOCIATED WITH PROPOSED LIVE CONNECTION FOR LOT 966.									

ALL CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY 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.

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS
SIGNED: DANIEL COLLINS DATE: 12-05-2020
DANIEL COLLINS RPEQ 18631

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.

NOTE:
TANGENT POINT SET-OUT INFORMATION FOR HORIZONTAL BENDS IS TO BE INCLUDED ON AS-CONSTRUCTED DRAWINGS

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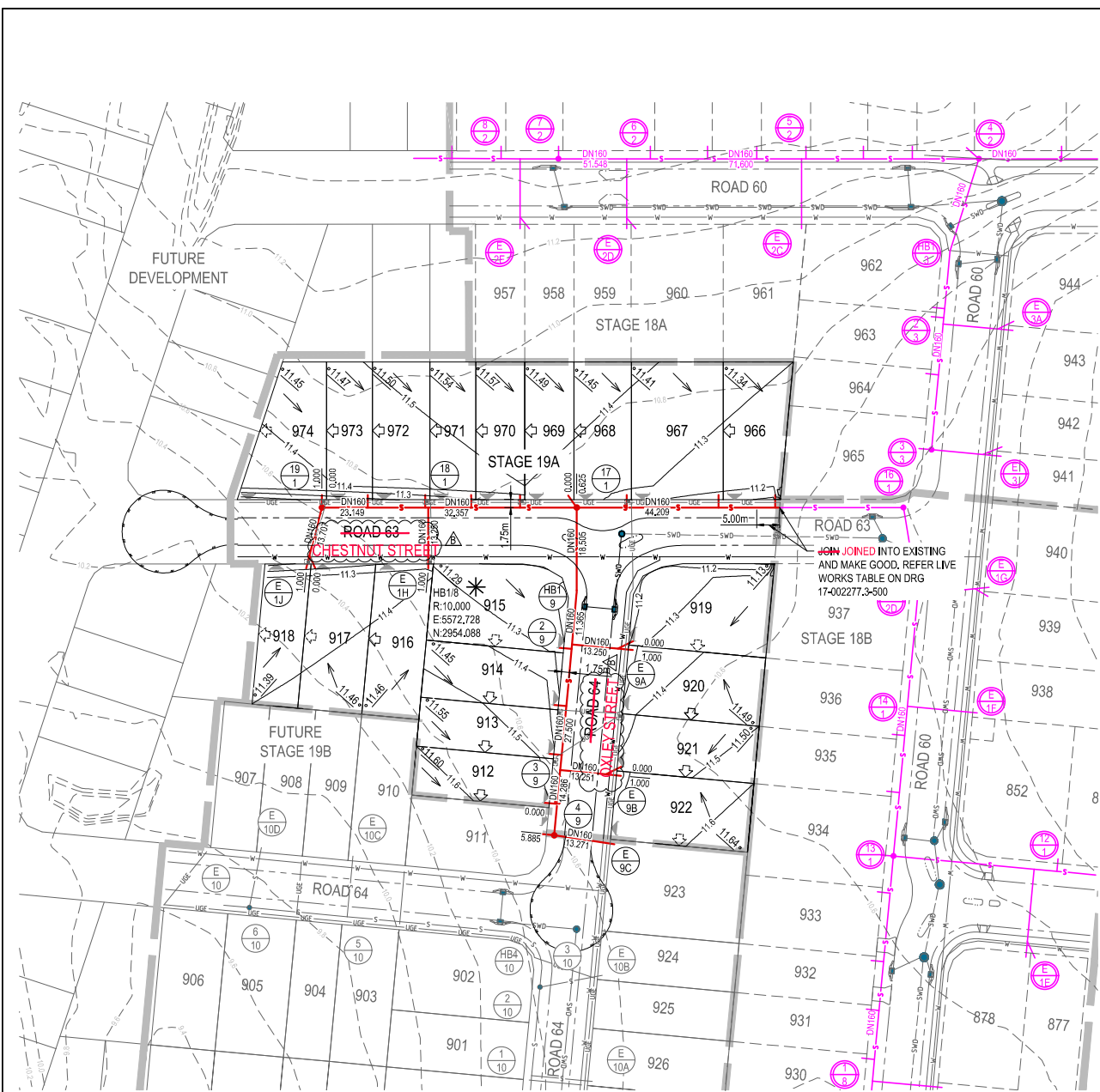
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B	06/05/20	AS CONSTRUCTED	CR	CR				calibre	STAGE 19A	COVER SHEET
						APPROVED				
						DANIEL COLLINS	RPEQ 18631			
						* DANIEL COLLINS				
						FOR & ON BEHALF OF CALIBRE CONSULTING (QLD) PTY LTD				
										UB/CUBJMR
										ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.
										PROJECT No.
										17-002277.3
										DRAWING No.
										500
										REVISION
										B

UW REF No. 2017011039s19A



RIVERBANK ESTATE
STAGE 19A

SEWER RETICULATION
COVER SHEET



- LEGEND**
- PROPOSED STAGE BOUNDARY
 - PROPOSED SEWERAGE RETICULATION
 - EXISTING SEWERAGE RETICULATION
 - FUTURE SEWERAGE RETICULATION
 - PROPOSED SLEEPER RETAINING WALL
 - PROPOSED STORMWATER DRAINAGE
 - EXISTING STORMWATER DRAINAGE
 - PROPOSED WATER RETICULATION
 - EXISTING WATER RETICULATION
 - PROPOSED UNDERGROUND ELECTRICAL
 - INDICATIVE DRIVEWAY LOCATIONS
 - MANDATORY ZERO LOT BOUNDARY
 - NOMINAL ZERO LOT BOUNDARY
 - EXISTING SURFACE CONTOUR (0.2m INTERVALS)
 - DESIGN SURFACE CONTOUR (0.1m INTERVALS)
 - LOT CONTROL LEVEL
 - DIRECTION OF HOUSE CONTROL
 - SETOUT TO MID POINT OF BEND.
 - PROPOSED ENERGEX LINE UNDERGROUND
 - PROPOSED ELECTRICAL PIT
 - PROPOSED NBN PITS

REFER DRAWING NO 17-002277.3 -500 FOR STANDARD SEWERAGE NOTES, LOCALITY PLAN AND LIVE WORKS TABLE.

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

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

LEGEND

STRUCTURE TYPE	
G	FOOTPATHS OR LOTS, DEPTH<3.00m
F	FOOTPATH OR LOTS, 3.00m<DEPTH<4.25m
X	OR LOTS, DEPTH<4.25m
MS	LOCATED IN FOOTPATHS OR LOTS 1.30m<DEPTH<5.0m

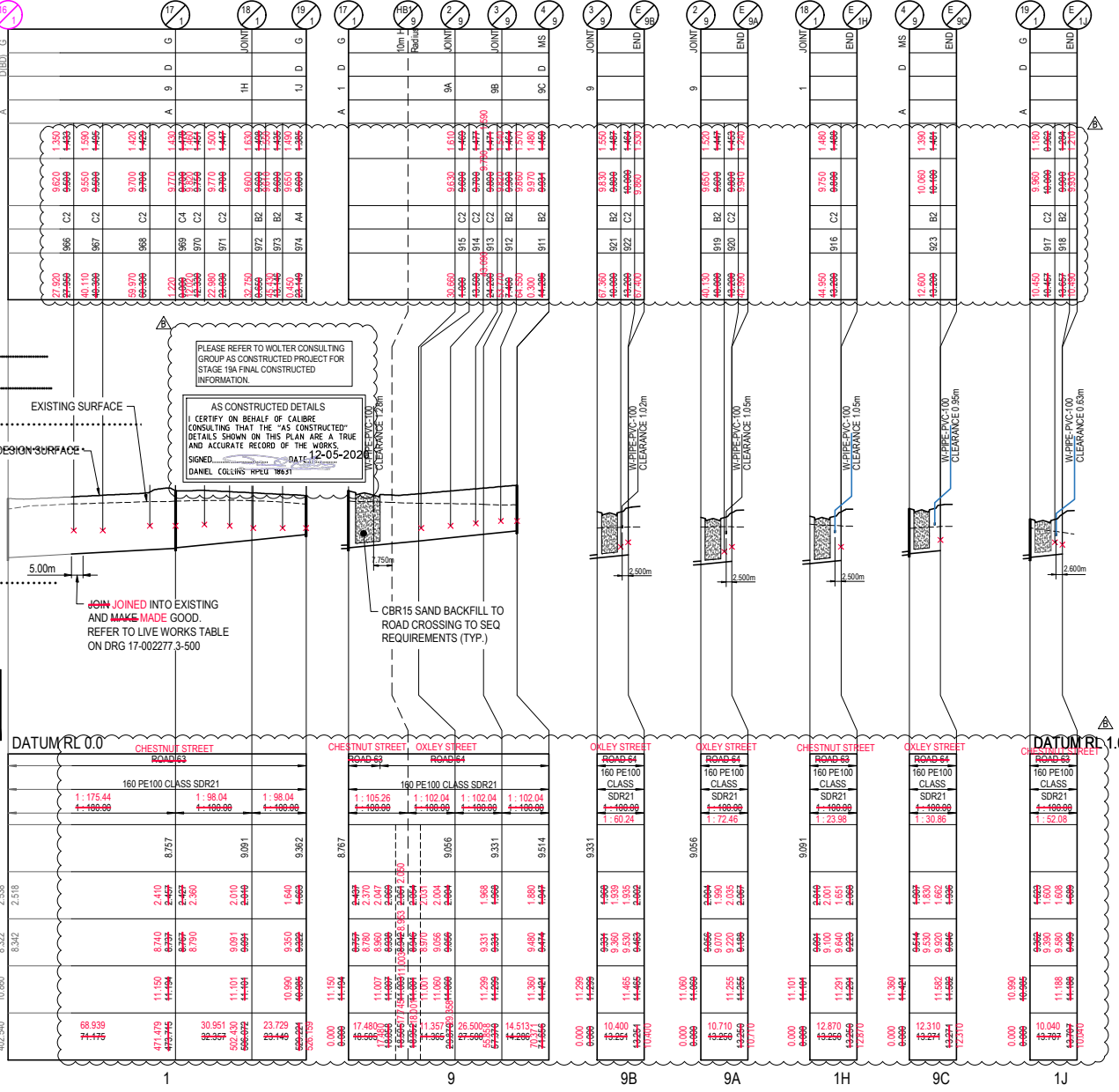
STRUCTURE COVER TYPE	
B	NON-TRAFFICABLE
D	TRAFFICABLE
D(BD)	TRAFFICABLE WITH BOLT DOWN

MAINTENANCE HOLE DROP TYPE	
A	FALL THROUGH MH
C	EXTERNAL BACKDROP

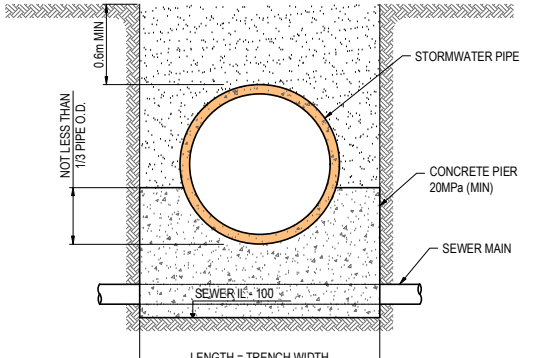
MAINTENANCE SHAFT DROP TYPE	
MS-A	BULB CONNECTION (20mm OBVERT)
MS-B	RISER CONNECTION (≧750mm)

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

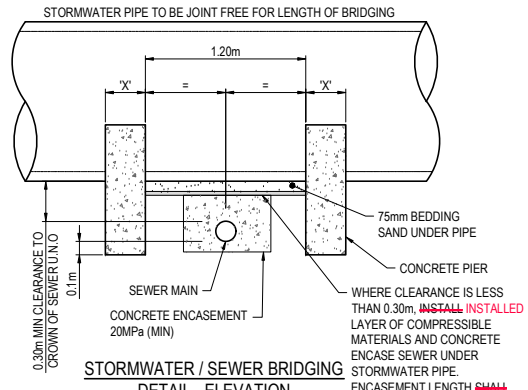
STREET ETC
DIAMETER
GRADE
JUNCTION INVERT LEVEL
DEPTH TO INVERT
INVERT LEVEL OF SEWER
DESIGN SURFACE LEVEL
RUNNING CHAINAGE



LINE 1 9 9B 9A 1H 9C 1J



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)

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

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

PROPERTY CONNECTION TABLE

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

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.

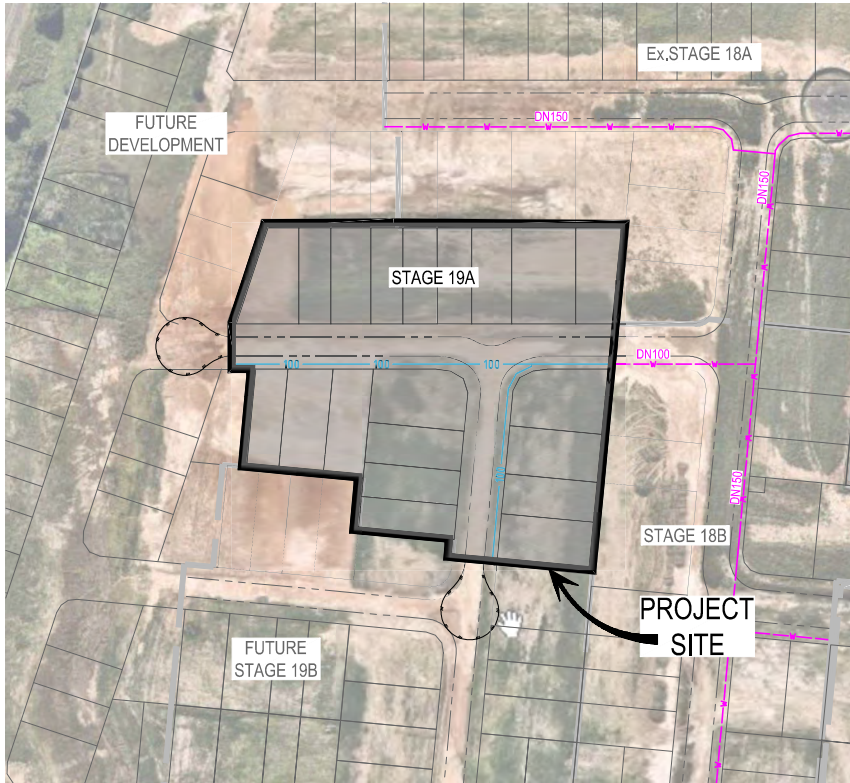
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UW REF No. 2017011039s19A



PROJECT No. 17-002277.3
DRAWING No. 502
REVISION B



LOCALITY PLAN
N.T.S.

ABBREVIATIONS

AC	- ASBESTOS CEMENT
CICL	- CAST IRON CEMENT LINED
CSL	- 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
MSW	- 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	- UNITY WATER
VC	- VITRIFIED CLAY

WATER RETICULATION NOTES

- ALL WORK AND MATERIALS **SHALL BE WERE** IN ACCORDANCE WITH FOLLOWING CURRENT SPECIFICATIONS AND STANDARDS (IN ORDER OF PRIORITY):
- SOUTH EAST QUEENSLAND WATER SUPPLY CODE (SEQ-SP's)
- WATER SUPPLY CODE OF AUSTRALIA WSA03-2011 V3.1.
- UNLESS SPECIFIED OTHERWISE, ALL WORK AND MATERIALS **SHALL COMPLY COMPLIED** WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT ADOPTED** LIP OF KERB AS PERMANENT LEVEL.
- COVER ON MAINS FROM PERMANENT LEVEL **TO BE WERE** AS SHOWN IN STANDARD DRAWING SEQ-WAT-1200-2.
- CONDUITS **TO BE WERE** INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS IN SEQ-SP's.
- 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.
- ALL MATERIAL USED IN THE WORKS **SHALL COMPLY COMPLIED** WITH THE SEQ-SP's.
- ALL CONCRETE FOOTPATHS **TO BE WERE** CLEAR OF WATER MAINS, WHERE POSSIBLE.
- 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 WAS NOT** PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- ALL WORK ON EXISTING WATER MAINS **TO BE WERE** CARRIED OUT BY UNITY WATER AT THE DEVELOPER'S EXPENSE.

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 REMAINED** TO COMPLETION.
- WHERE POSSIBLE, TREE ROOTS **SHOULD BE WERE** TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS **ARE WERE** 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.

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.

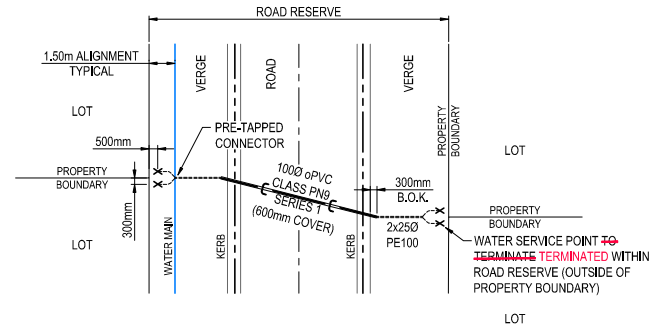
ALL CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR **SHALL COMPLY COMPLIED** WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION.

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

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
SIGNED: DATE: 12-05-2020
DANIEL COLLINS RPEQ 18631

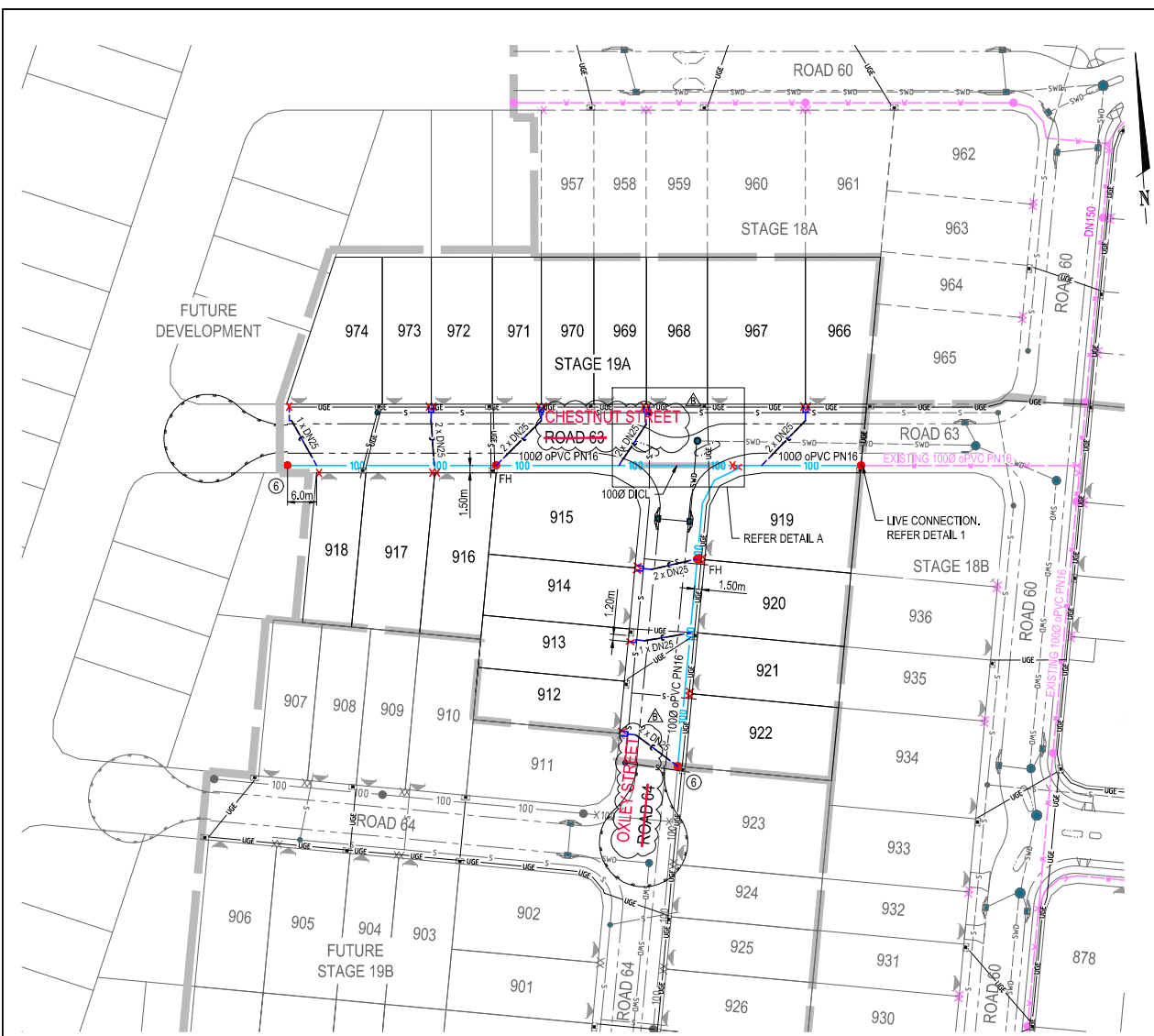
* The original issue or last amendment of this drawing contained the original signature. ✓



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

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE			
A	14.01.20	ISSUED FOR CONSTRUCTION	DN	CR		AS CONSTRUCTED		PEET CAROOLTURE SYNDICATE LTD		RIVERBANK ESTATE STAGE 19A	WATER RETICULATION COVER SHEET		
B	06.05.20	AS CONSTRUCTED	DN	CR									
						APPROVED							
						DANIEL COLLINS RPEQ 18631							
						FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD							
										PROJECT NO.	DRAWING NO.	REVISION	
										ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.	17-002277.3	600	B

UW REF No. 2017011039s19A



LEGEND

	PROPOSED STAGE BOUNDARY
	1000 oPVC PN16 PROPOSED WATER RETICULATION 1000
	EXISTING WATER RETICULATION
	FUTURE WATER RETICULATION
	PROPOSED STORMWATER DRAINAGE
	EXISTING STORMWATER DRAINAGE
	PROPOSED SEWER RETICULATION
	EXISTING SEWER RETICULATION
	PROPOSED ENERGEX LINE UNDERGROUND
	EXISTING ENERGEX LINE UNDERGROUND
	EXISTING ENERGEX LINE OVERHEAD
	EXISTING TELSTRA
	PROPOSED WATER CONDUIT (100 DIA. oPVC CLASS PN9)
	DICL ROAD CROSSING
	WATER SERVICE POINT (METER)
	HIGH POINT
	LOW POINT
	PROPOSED ENERGEX LINE UNDERGROUND
	PROPOSED ELECTRICAL PIT
	PROPOSED NBN PITS

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

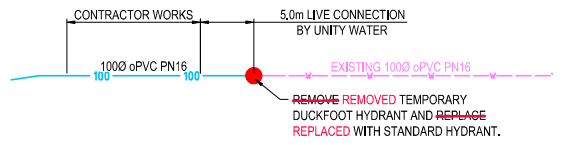
CAUTION !! UNDERGROUND TELECOMMS CABLES
 UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT SUPPLIER FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

WATER FITTINGS TABLE

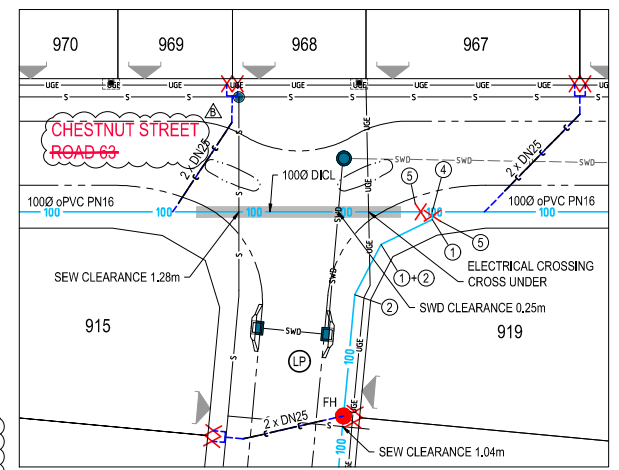
ITEM No.	DESCRIPTION
1	1000 x 11.25° DI BEND AND THRUST BLOCK
2	1000 x 22.5° DI BEND AND THRUST BLOCK
3	1000 x 45° DI BEND AND THRUST BLOCK
4	1000 x 1000 TEE AND THRUST BLOCK
5	1000 SLUICE VALVE
6	1000 DUCK FOOT HYDRANT

SYMBOLS

	FIRE HYDRANT
	SLUICE VALVE
	SCOUR VALVE
	DEAD END
	PIPE CONNECTOR
	REDUCER
	PIPE MATERIAL CHANGE



LIVE CONNECTION DETAIL 1
 SCALE 1:250 AT A1
 SCALE 1:500 AT A3



DETAIL A
 SCALE 1:250 AT A1
 SCALE 1:500 AT A3

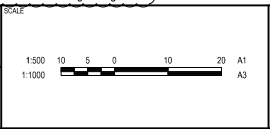
PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19A FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: _____ DATE: 12-05-2020
 DANIEL COLLINS RPEQ 18631

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	14.01.20	ISSUED FOR CONSTRUCTION	CH	CR		
B	06.04.20	AS CONSTRUCTED	CR	CR		

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631
 (DANIEL COLLINS)
 FOR & ON BEHALF OF CALBRE CONSULTING (OLD) PTY LTD



CLIENT: **PEET** CARBOULTURE SYNDICATE LTD

PROJECT: **RIVERBANK ESTATE STAGE 19A**

DRAWING TITLE: **WATER RETICULATION LAYOUT PLAN**

PROJECT NO: 17-002277.3
 DRAWING NO: 601
 REVISION: B

UW REF No. 2017011039s19A

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