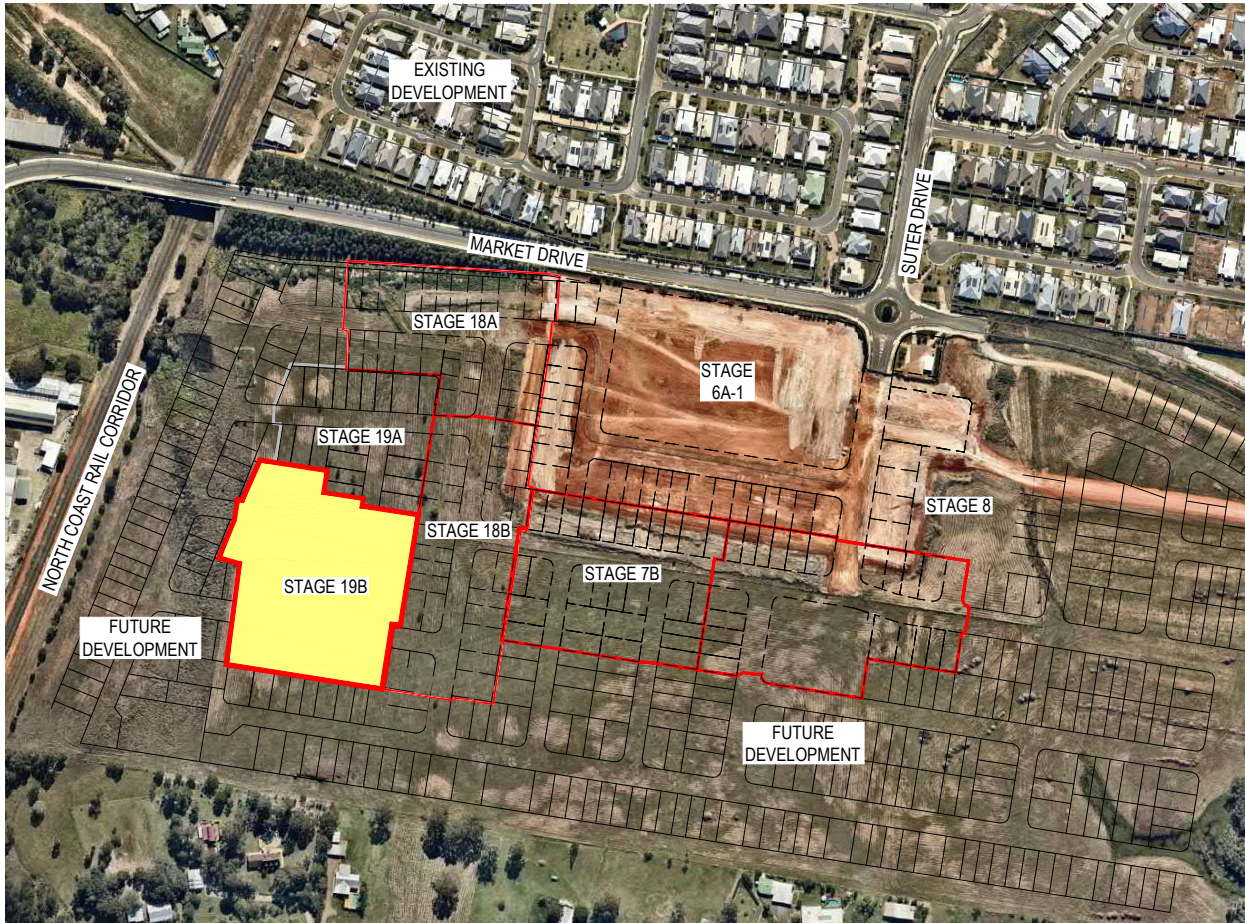


RIVERBANK ESTATE

LOT 1008 WATERSIDE ESPLANADE CABOOLTURE SOUTH
 STAGE 19B
 FOR PEET CABOOLTURE SYNDICATE LTD



LOCALITY PLAN
 NTS

MORETON BAY
 REGIONAL COUNCIL

AREA OF SITE: 1.83ha

LOT INFORMATION

EXISTING LOTS
 LOT 1007 SP295486
 LOT 1008 SP295506
 PROPOSED NO. OF LOTS: 32

DRAWING INDEX

| DRAWING NO. | DRAWING TITLE |
|----------------------------------|---|
| 000 | COVER SHEET, LOCALITY PLAN AND DRAWING INDEX |
| BULK EARTHWORKS | |
| 200 | BULK EARTHWORKS LAYOUT PLAN |
| 201 | BULK EARTHWORKS SECTIONS |
| 202 | TEMPORARY SWALE LONGITUDINAL SECTION |
| 203 | COMPENSATORY EARTHWORKS LAYOUT PLAN |
| ROADWORKS | |
| 300 | SURVEY SETOUT LAYOUT PLAN AND SETOUT TABLES |
| 301 | ROADWORKS LAYOUT PLAN |
| 302 | INTERSECTION DETAILS PLAN AND SETOUT TABLES |
| 303 | BEN CRESCENT ROAD 60 LONGITUDINAL AND CROSS SECTIONS |
| 304 | OXLEY STREET ROAD 64 LONGITUDINAL AND CROSS SECTIONS |
| 305 | DAVID STREET ROAD 68 LONGITUDINAL AND CROSS SECTIONS |
| 306 | 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 SHEET 1 OF 2 |
| 503 | SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2 |
| 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 19B 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 COLLINS 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 NOT PROCEED UNTIL THE SUPERINTENDENT AND OR ENGINEER HAVE INSPECTED THE WORKS FOR FINISHED LEVELS AND APPROVED CONSTRUCTION TO CONTINUE.

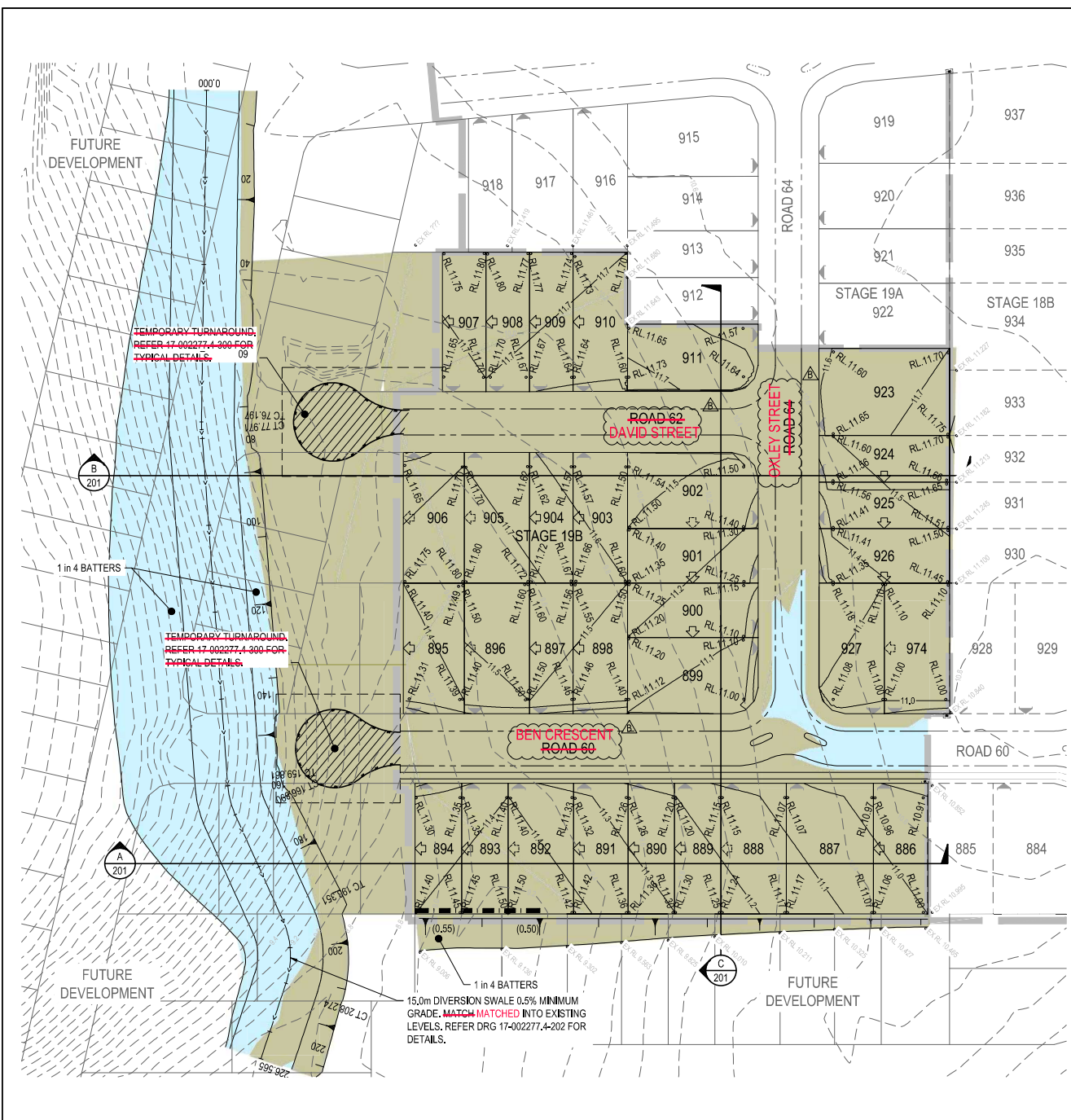
CONSTRUCTION HOLD POINT
 PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY VERIFIED LEVELS OF ALL EXISTING CROSSINGS AND CONNECTION POINTS.

RIVERBANK ESTATE

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

Project No.: 17-002277.4 Stage: 19B Milestone: AS Revision Date: 08.05.20 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)
 - 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
 - X58.75 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
 - EXISTING EDGE OF BITUMEN

- ### 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 LAISE 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. 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~~ 3.0m 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.

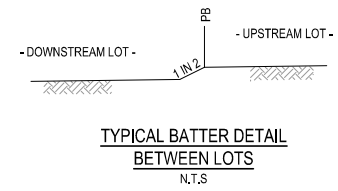
PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B FINAL CONSTRUCTED INFORMATION.

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

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.

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.



15.0m DIVERSION SWALE 0.5% MINIMUM GRADE. MATCH MATCHED INTO EXISTING LEVELS. REFER DRG 17-002277.4-202 FOR DETAILS.

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

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 18.05.20 | AS CONSTRUCTED | EG | CR | | |

| SCALE | CUSTOMER |
|-----------------|----------------------------------|
| 1:500 1:1000 | PEET CAROOLTURE SYNDICATE LTD |

PROJECT: RIVERBANK ESTATE STAGE 19B

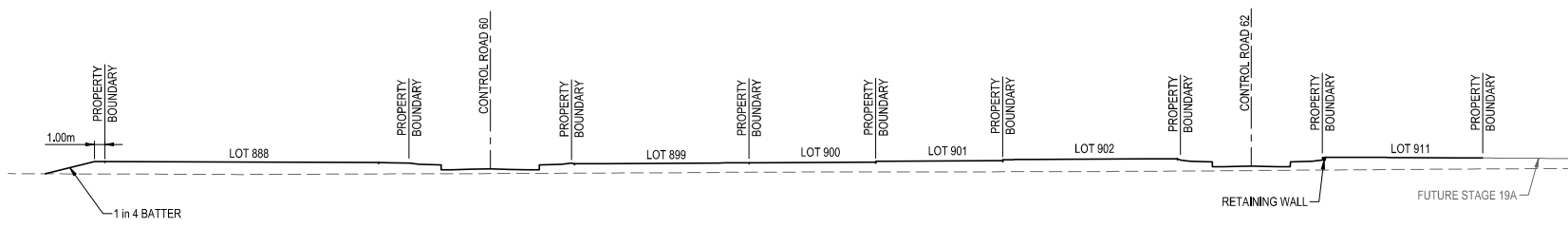
DRAWING TITLE: BULK EARTHWORKS LAYOUT PLAN

PROJECT No. 17-002277.4

DRAWING No. 200

REVISION B

| REVISION | DATE | ISSUE DETAILS |
|----------|----------|-------------------------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION |
| B | 18.05.20 | AS CONSTRUCTED |

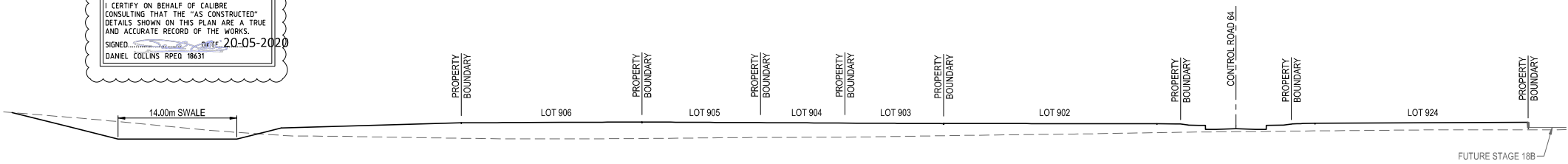


SECTION C
SCALE (A1):1:250
SCALE (A3):1:500

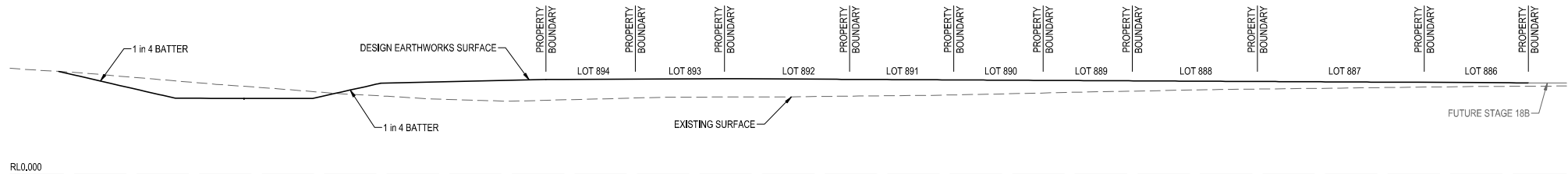
PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B FINAL CONSTRUCTED INFORMATION.

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 COLLINS RPEQ 18631



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



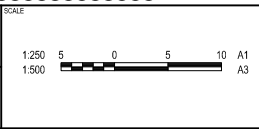
SECTION A
SCALE (A1):1:250
SCALE (A3):1:500

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

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 18.05.20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

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



PEET
CAROOLTURE SYNDICATE LTD

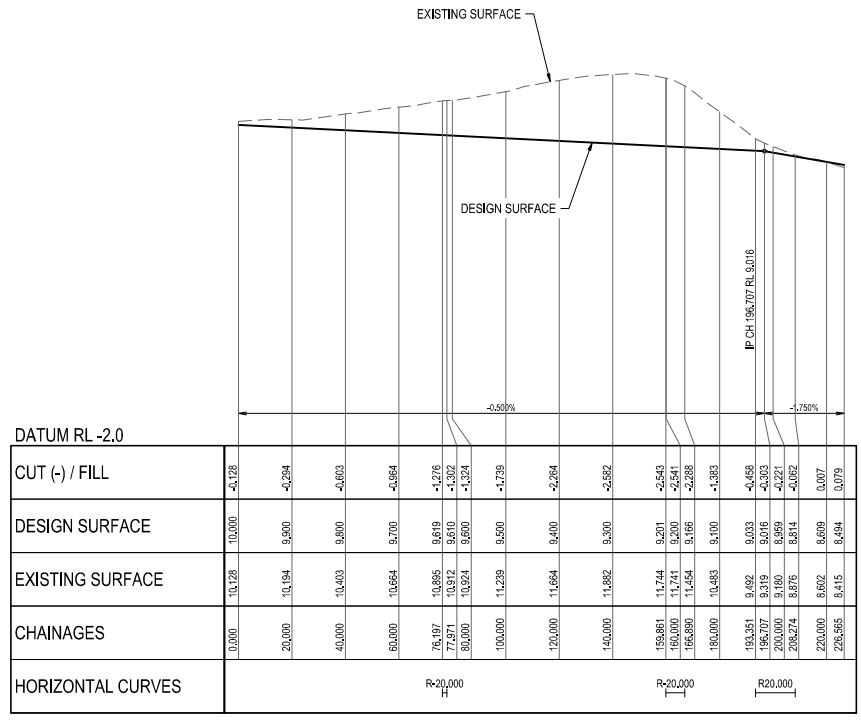
calibre
calbregroup.com

RIVERBANK ESTATE STAGE 19B

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

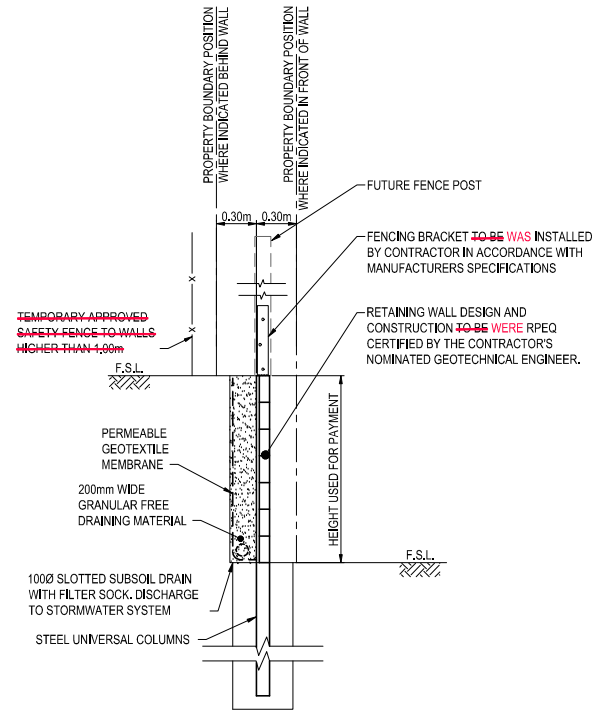
| DRAWING TITLE | | |
|---------------------------------|-------------|----------|
| BULK EARTHWORKS SECTIONS | | |
| PROJECT No. | DRAWING No. | REVISION |
| 17-002277.4 | 201 | B |

UW REF No. 2017011039s19B



TEMP SWALE SOUTH - LONGITUDINAL SECTION

HORIZ SCALE: 1000
VERTICAL SCALE: 100



TYPICAL CONCRETE SLEEPER RETAINING WALL DETAIL

SCALE 1 : 20 (A1)

- 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~~ WERE TAKEN BELOW THE ZONE OF INFLUENCE.

- 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

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

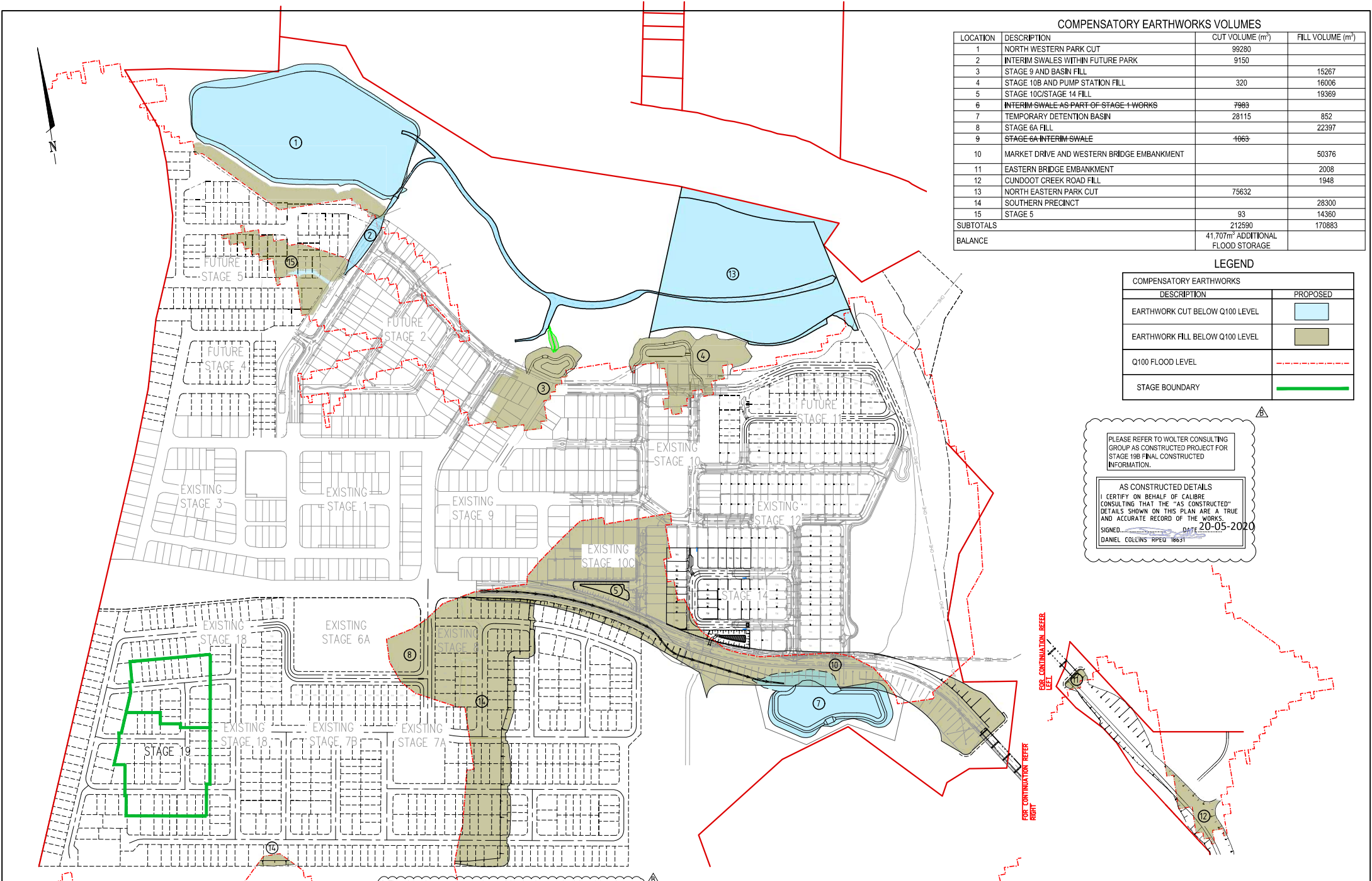
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SIGNED: DATE: 20-05-2020
DANIEL COLLINS RPEQ 18631

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| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS | SCALE | CLIENT | PROJECT | DRAWING TITLE |
|--|----------|-------------------------|-------|--------|-------------|----------------|---|----------------------------------|--|--------------------------------------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | AS CONSTRUCTED | 1:25 0.25 0.5 0.75 1.0 1.25 A1 | PEET CAROOLTURE SYNDICATE LTD | RIVERBANK ESTATE STAGE 19B | TEMPORARY SWALE LONGITUDINAL SECTION |
| B | 08.05.20 | AS CONSTRUCTED | EG | CR | | | 1:1000 10 0 10 20 30 40 50 A1 1:2000 0 10 20 30 40 50 A3 | | | |
| | | | | | | | 1:100 2 1 0 2 4 A1 1:200 0 1 0 2 4 A3 | | | |
| APPROVED: DANIEL COLLINS RPEQ 18631 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD | | | | | | | calibregroup.com | | DRAWING NO: 17-002277.4 REVISION: B | |

UW REF No. 2017011039s19B



COMPENSATORY EARTHWORKS VOLUMES

| LOCATION | DESCRIPTION | CUT VOLUME (m ³) | FILL VOLUME (m ³) |
|------------------|--|---|-------------------------------|
| 1 | NORTH WESTERN PARK CUT | 98280 | |
| 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 | 7983 | |
| 7 | TEMPORARY DETENTION BASIN | 28115 | 852 |
| 8 | STAGE 6A FILL | | 22397 |
| 9 | STAGE 6A INTERIM SWALE | 4063 | |
| 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 | 170883 |
| 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 | |

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

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

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|----------|----------|-------------------------|-------|--------|-------------|--------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 08.05.20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

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

SCALE

1:2500 0 50 100 A1
 1:5000

CLIENT

PEET
 CABOOLTURE SYNDICATE LTD

calbre group.com

PROJECT

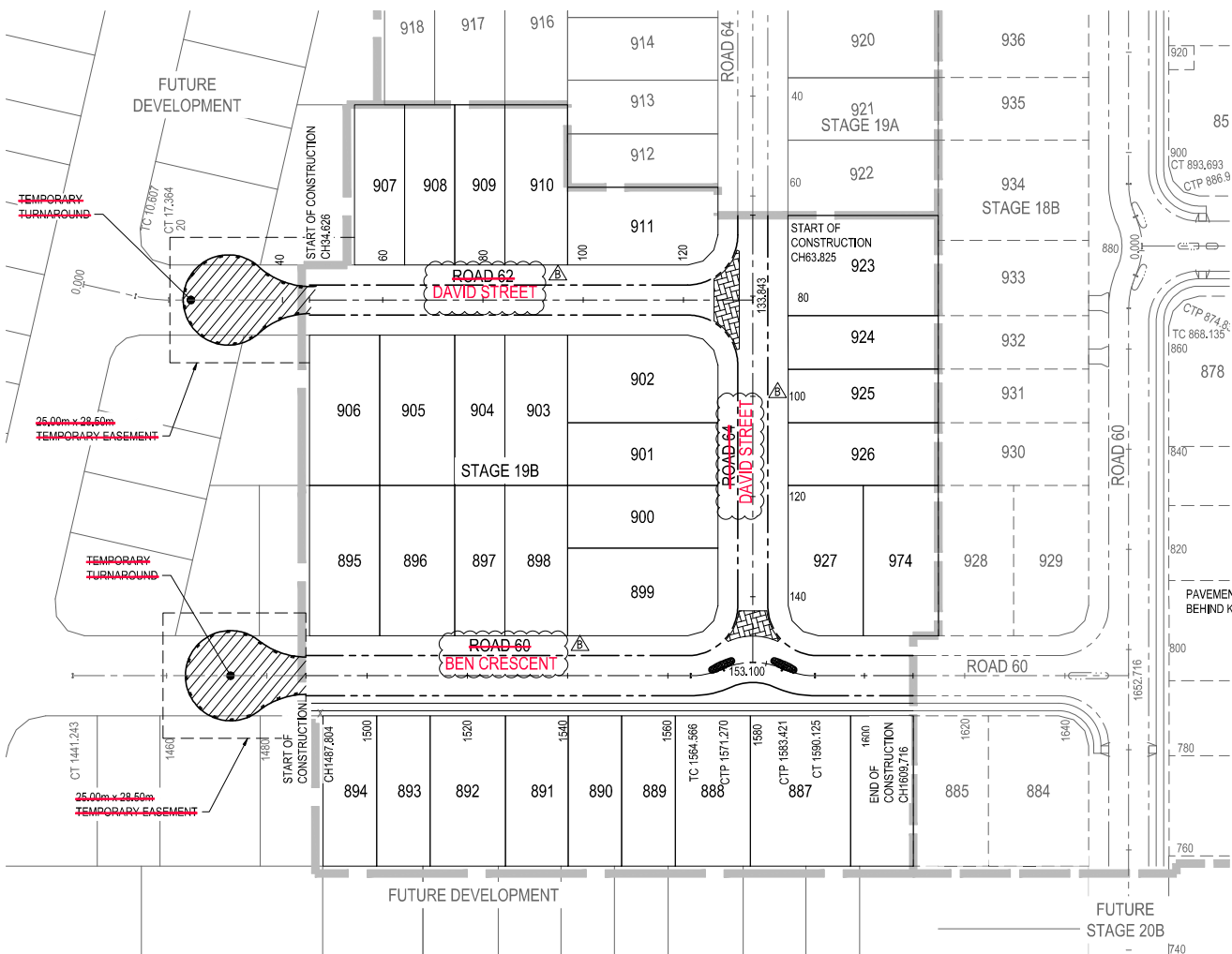
RIVERBANK ESTATE STAGE 19B

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

UW REF No. 2017011039s19B

DRAWING TITLE
COMPENSATORY EARTHWORKS LAYOUT PLAN

PROJECT NO. **17-002277.4** DRAWING NO. **203** REVISION **B**



LEGEND

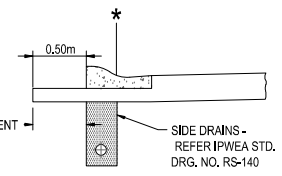
| | |
|--|---|
| | PROPOSED STAGE BOUNDARY |
| | PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3 |
| | FUTURE KERB & CHANNEL |
| | EXISTING KERB AND CHANNEL |

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 19B FINAL CONSTRUCTED INFORMATION.

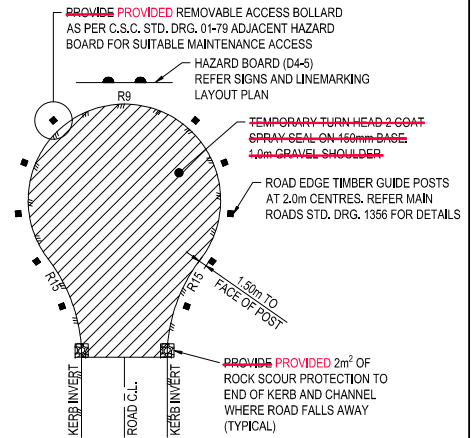
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 SIGNED: DANIEL COLLINS RPEQ 18631 DATE: 20-05-2020



**MOUNTABLE KERB AND CHANNEL
 TYPE M3 IPWEA**

SCALE: 1:25

*** NOMINAL FACE OF KERB**



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

BEN CRESCENT ROAD 60 CONTROL LINE SETOUT TABLE

| PT | CHAINAGE | EASTING | NORTHING | HEIGHT | BEARING | RAD/SPIRAL | ALENGTH | DEFLANGLE |
|-------|----------|----------|----------|--------|---------------|------------|--------------|-----------|
| | 1460.000 | 5438.737 | 2828.616 | 10.369 | 99°01'02.00" | | | |
| | 1480.000 | 5459.490 | 2825.482 | 10.764 | 99°01'02.00" | | | |
| START | 1487.804 | 5457.169 | 2824.263 | | | | | |
| | 1500.000 | 5479.243 | 2822.347 | 11.102 | 99°01'02.00" | | | |
| | 1520.000 | 5498.996 | 2819.212 | 11.134 | 99°01'02.00" | | | |
| | 1540.000 | 5518.749 | 2816.078 | 11.034 | 99°01'02.00" | | | |
| | 1560.000 | 5538.502 | 2812.943 | 10.934 | 99°01'02.00" | | | |
| TC | 1564.566 | 5543.011 | 2812.227 | 10.911 | 99°01'02.00" | | | |
| IP 24 | 1567.918 | 5546.371 | 2811.694 | 10.894 | R = -16.000 | 6.704 | 24°00'23.23" | |
| CC | 1571.270 | 5549.657 | 2812.574 | 10.878 | 75°00'38.77" | | | |
| IP 25 | 1577.346 | 5555.895 | 2814.244 | 10.847 | R = 14.500 | 12.151 | 48°00'46.45" | |
| | 1580.000 | 5558.249 | 2812.235 | 10.834 | 109°30'22.52" | | | |
| CC | 1583.421 | 5561.310 | 2810.725 | 10.817 | 123°01'25.23" | | | |
| IP 26 | 1586.773 | 5564.162 | 2808.871 | 10.800 | R = -16.000 | 6.704 | 24°00'23.23" | |
| CT | 1590.125 | 5567.522 | 2808.338 | 10.783 | 99°01'02.00" | | | |
| | 1600.000 | 5577.275 | 2806.790 | 10.734 | 99°01'02.00" | | | |
| END | 1609.716 | 5586.871 | 2805.267 | | | | | |
| | 1620.000 | 5597.028 | 2803.655 | 10.634 | 99°01'02.00" | | | |
| | 1640.000 | 5616.781 | 2800.521 | 10.568 | 99°01'02.00" | | | |
| IP 27 | 1652.716 | 5629.340 | 2798.528 | 10.725 | 99°01'02.00" | | | |

DAVID STREET ROAD 62 CONTROL LINE SETOUT TABLE

| PT | CHAINAGE | EASTING | NORTHING | HEIGHT | BEARING | RAD/SPIRAL | ALENGTH | DEFLANGLE |
|-------|----------|----------|----------|--------|--------------|------------|---------|-----------|
| | 20.000 | 5454.585 | 2902.198 | 10.430 | 99°01'02.00" | | | |
| START | 34.626 | 5479.645 | 2898.222 | | | | | |
| | 40.000 | 5474.338 | 2899.064 | 11.120 | 99°01'02.00" | | | |
| | 60.000 | 5494.091 | 2895.929 | 11.470 | 99°01'02.00" | | | |
| | 80.000 | 5513.844 | 2892.795 | 11.384 | 99°01'02.00" | | | |
| | 100.000 | 5533.596 | 2889.660 | 11.284 | 99°01'02.00" | | | |
| | 120.000 | 5553.349 | 2886.525 | 11.198 | 99°01'02.00" | | | |
| END | 133.843 | 5567.022 | 2884.356 | 11.378 | 99°01'02.00" | | | |

OXLEY STREET ROAD 64 CONTROL LINE SETOUT TABLE

| PT | CHAINAGE | EASTING | NORTHING | HEIGHT | BEARING | RAD/SPIRAL | ALENGTH | DEFLANGLE |
|-------|----------|----------|----------|--------|---------------|------------|---------|-----------|
| | 40.000 | 5573.406 | 2924.590 | 11.163 | 189°01'02.00" | | | |
| | 60.000 | 5570.272 | 2904.838 | 11.337 | 189°01'02.00" | | | |
| START | 63.825 | 5569.672 | 2901.059 | | | | | |
| | 80.000 | 5567.137 | 2885.085 | 11.384 | 189°01'02.00" | | | |
| | 100.000 | 5564.003 | 2865.332 | 11.160 | 189°01'02.00" | | | |
| | 120.000 | 5560.868 | 2845.579 | 10.886 | 189°01'02.00" | | | |
| | 140.000 | 5557.733 | 2825.826 | 10.643 | 189°01'02.00" | | | |
| END | 153.100 | 5555.680 | 2812.888 | 10.847 | 189°01'02.00" | | | |

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

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| 1 | 24/11/20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| 2 | 18/02/20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631
 * DANIEL COLLINS

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

SCALE: 1:1000

PEET
 CAROOLTURE SYNDICATE LTD

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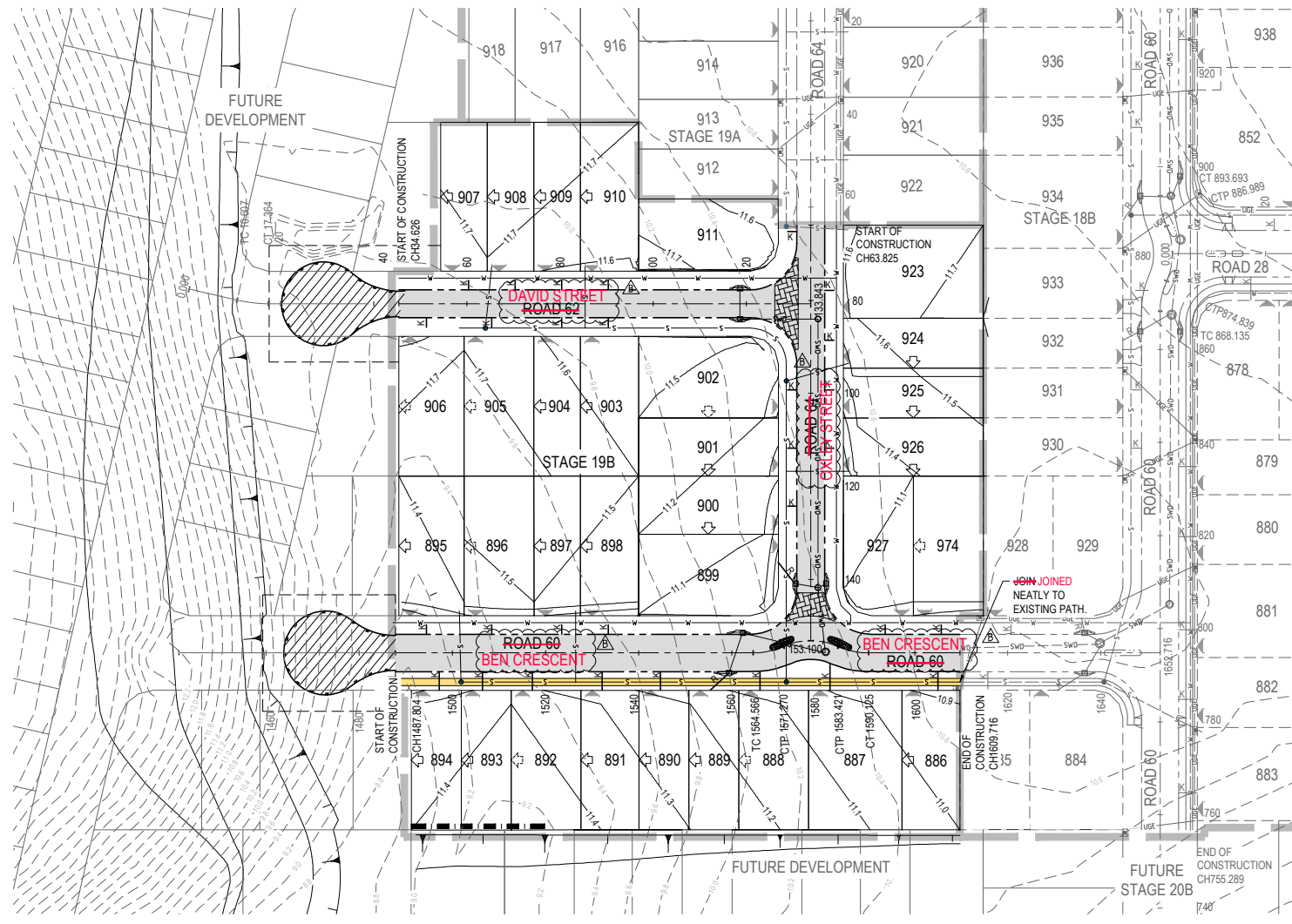
**RIVERBANK ESTATE
 STAGE 19B**

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

SURVEY SETOUT LAYOUT PLAN AND SETOUT TABLES

PROJECT NO: 17-002277.4
 DRAWING NO: 300
 REVISION: B

UW REF NO. 2017011039s19B



- ### 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
 - ZERO LOT BOUNDARY MANDATORY
 - ZERO LOT BOUNDARY NOMINAL
 - PROPOSED AREA OF ASPHALT SURFACING
 - CONCRETE THRESHOLD TREATMENT. REFER DRG 17-002277.3-300 FOR DETAILS.
 - PROPOSED CONCRETE FOOTPATH IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-090
 - PROPOSED ENERGEX LINE UNDERGROUND
 - PROPOSED ELECTRICAL PIT
 - PROPOSED NBN PITS

ROADWORKS AND DRAINAGE NOTES

1. ALL WORKS **SHALL BE WERE** CARRIED OUT IN ACCORDANCE WITH CURRENT C.S.C. STANDARD DRAWINGS AND METHODS.
2. 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.
3. LEVELS FOR KERB AND CHANNELLING CONSTRUCTION **ARE WERE** AT EQUAL INTERVALS AT LIP OF CHANNEL UNLESS SHOWN OTHERWISE.
4. 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.
5. 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 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.
6. ALL DIMENSIONS **ARE WERE** IN METRES UNLESS SHOWN OTHERWISE.
7. 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.
8. CONTRACTOR TO LIAISE 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.
9. FOOTPATHS AND BATTERS **TO HAVE HAD** MINIMUM OF 75mm TOPSOIL (AND GRASSING IF ORDERED).
10. **PROVIDE PROVIDED** 'B' GRADE TURFING TO OUTLETS AS DIRECTED BY THE SUPERINTENDENT.
11. 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.
12. ALL DISTURBED AREAS STEEPER THAN 1 IN 6 **SHALL BE WERE** HYDROMULCHED, TURFED OR EQUIVALENT.
13. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
14. ALL FOOTPATHS **ARE TO BE WERE** 125mm THICK N32 CONCRETE WITH F72 MESH.

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.

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

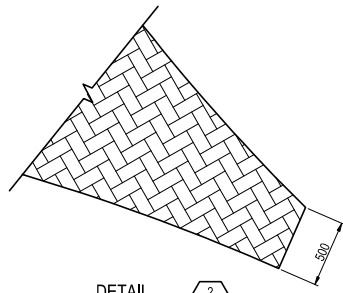
AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: DATE 20.05.2020
 DANIEL COLLINS RPEQ 18631

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.

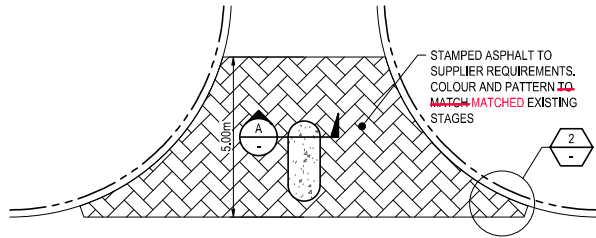
NOTE:
 ACCESS AND SERVICES TO EXISTING PROPERTIES **TO REMAIN REMAINED AT** ALL TIMES.

UW REF No. 2017011039s19B

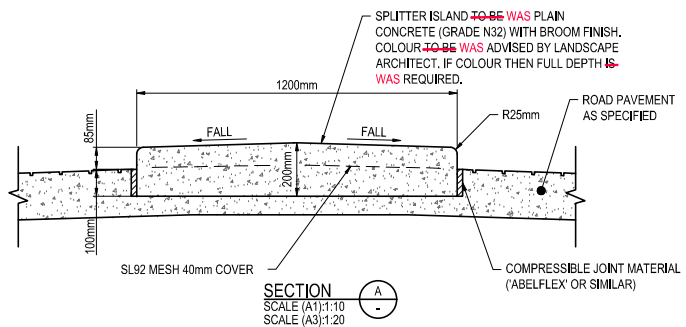
| | | | | | | | | | | | | |
|--|----------|-------------------------|------|--------|-------------|--------|--------|--------------------------|------------------|-----------------------------------|---------------------------|----------------------|
| REVISION | DATE | ISSUE DETAILS | DRWN | DESIGN | DRAWN/CHECK | STATUS | SCALE | CLIENT | PROJECT | DRAWING TITLE | | |
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | | 1:500 | PEET | RIVERBANK ESTATE | ROADWORKS | | |
| 2 | 08.05.20 | AS CONSTRUCTED | EG | CR | | | 1:1000 | CALIBRE | STAGE 19B | LAYOUT PLAN | | |
| AS CONSTRUCTED APPROVED: DANIEL COLLINS RPEQ 18631 *DANIEL COLLINS FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD | | | | | | | | CABOOLTURE SYNDICATE LTD | | RIVERBANK ESTATE STAGE 19B | ROADWORKS LAYOUT PLAN | |
| DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. | | | | | | | | | | PROJECT No: 17-002277.4 | DRAWING No: 301 | REVISION B |



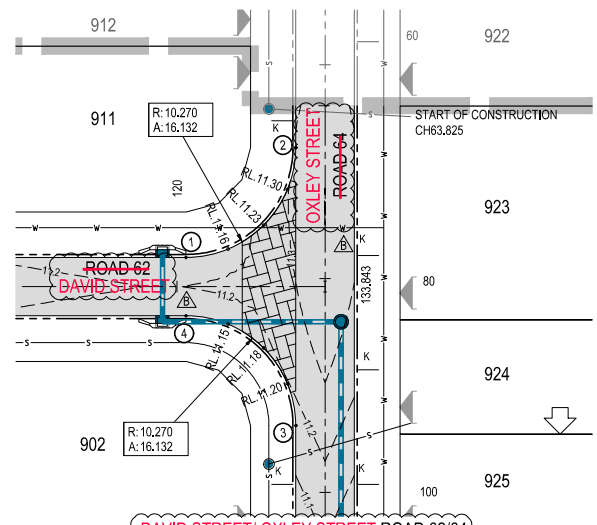
DETAIL
SCALE (A1): 1:20
SCALE (A3): 1:40



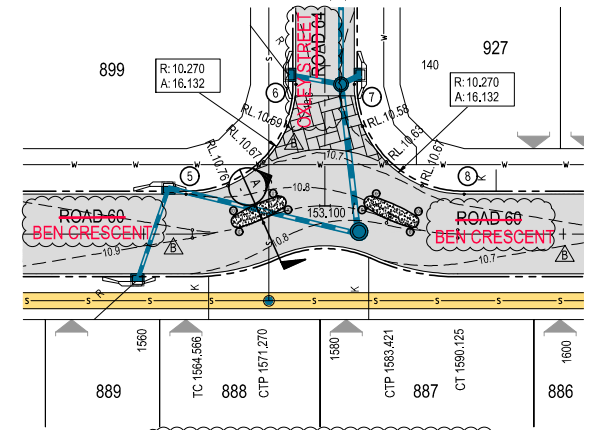
TYPICAL INTERSECTION THRESHOLD TREATMENT
SCALE 1:100 (A1)
SCALE 1:200 (A3)



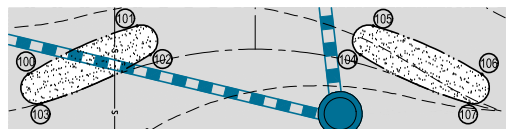
SECTION
SCALE (A1): 1:10
SCALE (A3): 1:20



DAVID STREET/OXLEY STREET ROAD 62/64
INTERSECTION
SCALE 1:250 (A1)
SCALE 1:500 (A3)



BEN CRESCENT/OXLEY STREET ROAD 60/64
INTERSECTION
SCALE 1:250 (A1)
SCALE 1:500 (A3)



BEN CRESCENT ROAD 60 ISLAND DETAIL
SCALE 1:100 (A1)
SCALE 1:200 (A3)

LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED STORMWATER DRAINAGE
- PROPOSED SEWERAGE RETICULATION
- PROPOSED WATER RETICULATION
- FUTURE SEWERAGE RETICULATION
- FUTURE WATER RETICULATION
- PROPOSED MOUNTABLE KERB & CHANNEL TYPE M3
- DESIGN SURFACE CONTOUR (0.1m INTERVALS)
- PROPOSED AREA OF ASPHALT SURFACING
- STAMPED ASPHALT THRESHOLD TREATMENT.
- PROPOSED CONCRETE FOOTPATH IN ACCORDANCE WITH IPWEA STANDARD DRAWING RS-090

PAVEMENT SETOUT

| Point No. | Easting | Northing | Level |
|-----------|----------|----------|--------|
| 1 | 5554.610 | 2888.089 | 11.120 |
| 2 | 5566.363 | 2897.623 | 11.308 |
| 3 | 5562.288 | 2871.944 | 11.164 |
| 4 | 5553.754 | 2883.697 | 11.120 |
| 5 | 5543.012 | 2816.004 | 10.802 |
| 6 | 5554.765 | 2824.537 | 10.558 |
| 7 | 5560.157 | 2823.682 | 10.558 |
| 8 | 5568.691 | 2811.929 | 10.669 |

BEN CRESCENT ROAD 60 ISLAND SETOUT

| Point No. | Easting | Northing | Level |
|-----------|----------|----------|--------|
| 100 | 5547.158 | 2813.296 | 10.855 |
| 101 | 5551.462 | 2814.449 | 10.822 |
| 102 | 5551.769 | 2813.301 | 10.857 |
| 103 | 5547.465 | 2812.148 | 10.889 |
| 104 | 5558.527 | 2812.070 | 10.818 |
| 105 | 5560.175 | 2813.066 | 10.782 |
| 106 | 5563.910 | 2810.638 | 10.770 |
| 107 | 5563.263 | 2809.641 | 10.806 |

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B 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 |
|----------|----------|-------------------------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION |
| B | 08.05.20 | AS CONSTRUCTED |

| DRAWN | DESIGN | DRAWN CHECK | STATUS |
|-------|--------|-------------|----------------|
| GT | CR | | AS CONSTRUCTED |
| EG | CR | | |

APPROVED: DANIEL COLLINS RPEQ 18631

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

| SCALE | 1:10 | 0.1 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | A1 |
|-------|------|-----|-----|-----|-----|-----|-----|-----|----|
| 1:20 | 0 | 0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | A3 |
| 1:40 | 0 | 0 | 0.2 | 0.4 | 0.6 | 0.8 | 1 | 1 | A1 |
| 1:100 | 1 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | A1 |
| 1:200 | 5 | 0 | 5 | 10 | 10 | 10 | 10 | 10 | A3 |
| 1:250 | 5 | 0 | 5 | 10 | 10 | 10 | 10 | 10 | A1 |
| 1:500 | 5 | 0 | 5 | 10 | 10 | 10 | 10 | 10 | A3 |

CLIENT

PEET
CAROULTURE SYNDICATE LTD

calibre
calbregroup.com

PROJECT

RIVERBANK ESTATE STAGE 19B

CLIENT: RIVERBANK ESTATE STAGE 19B
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

DRAWING TITLE

INTERSECTION DETAILS PLAN AND SETOUT TABLES

PROJECT NO. **17-002277.4** DRAWING NO. **302** REVISION **B**

UW REF NO. 2017011039s19B

PRELIMINARY PAVEMENT DESIGN

| ROAD | SUBGRA DE CBR | TRAFFIC ESA'S | ROAD CLASS | SURFACING (mm) | BASE (mm) | SUB-BASE (mm) | BLANKET (mm) | TOTAL BOX (mm) |
|---------------------------------------|---------------|---------------------|-------------------------|----------------|-----------|---------------|--------------|----------------|
| ROAD 60 CH1487.804 - CH1609.716 | 3* | 4 x 10 ⁴ | RESIDENTIAL ACCESS (A2) | 30 | 100 | 100 | 270 | 500 |

* ASSUMED SUBGRADE CBR

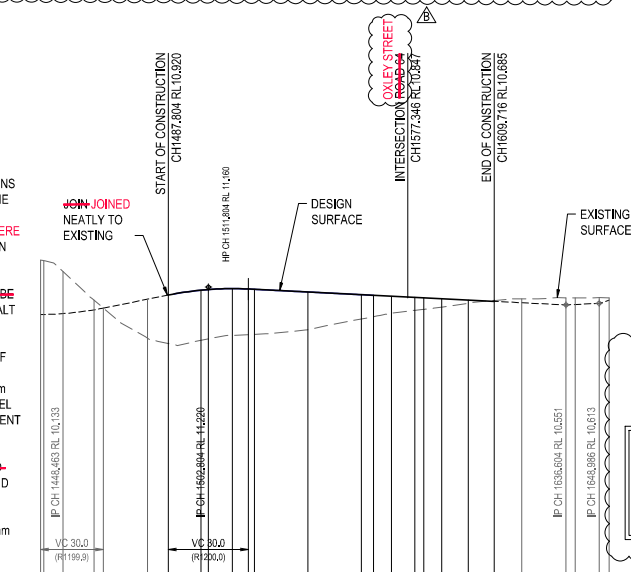
NOTE:
PROVIDE PROVIDED 2m² OF ROCK SCOUR PROTECTION TO ENDS OF KERB AND CHANNEL WHERE ROAD FALLS AWAY (TYPICAL)

FINAL PAVEMENT DESIGN

| ROAD | SUBGRA DE CBR | TRAFFIC ESA'S | ROAD CLASS | SURFACING (mm) | BASE (mm) | SUB-BASE (mm) | BLANKET (mm) | TOTAL BOX (mm) |
|--|---------------|---------------------|-------------------------|----------------|-----------|---------------|--------------|----------------|
| BEN CRESCENT CH1487.804 - CH1609.716 | 6 | 4 x 10 ⁴ | RESIDENTIAL ACCESS (A2) | 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 STENCILLED ASPHALT.
- PLACED COMBIGRID 30/30 450mm BELOW FINISHED SURFACE LEVEL AS DIRECTED BY SUPERINTENDENT WITHIN PROPOSED PAVEMENT DESIGN AT TIME OF CONSTRUCTION. COMBIGRID ~~TO EXTEND~~ EXTENDS 500mm BEHIND BACK OF KERB.
- SUB-BASE AND BLANKET MATERIALS ~~TO BE~~ PLACED 500mm BEHIND BACK OF KERB.



DATUM RL -1.0

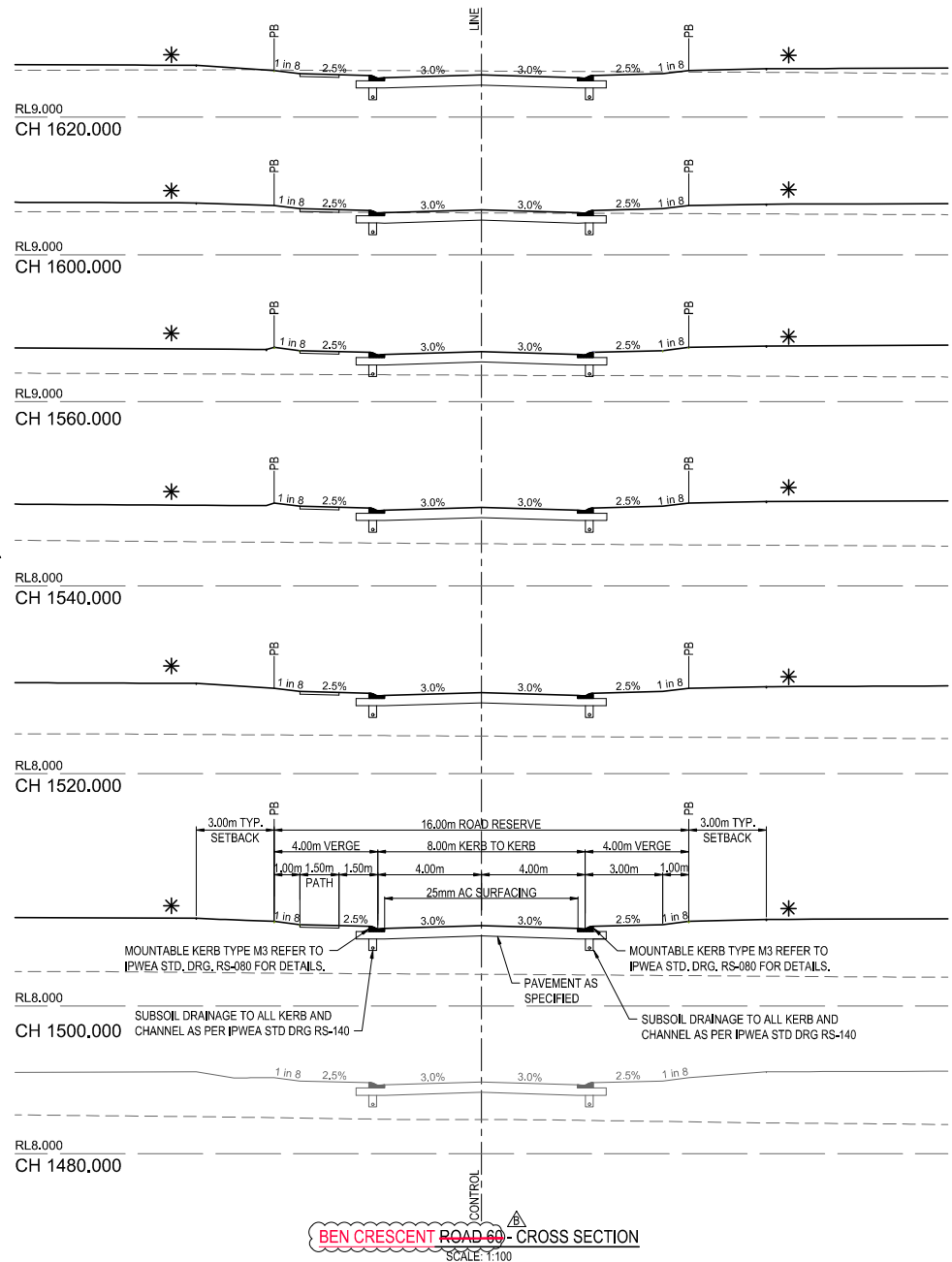
| CUT (-) / FILL | LHS LIP LEVEL | RHS LIP LEVEL | DESIGN SURFACE | EXISTING SURFACE | CHAINAGES | HORIZONTAL CURVES |
|-----------------|---------------|---------------|----------------|------------------|-----------|-------------------|
| 1440.000 -2.002 | 10.070 -2.002 | 10.081 -2.002 | 10.193 -2.002 | 12.226 -2.002 | 1440.000 | |
| 1441.243 -2.014 | 10.076 -2.014 | 10.083 -2.014 | 10.195 -2.014 | 12.208 -2.014 | 1441.243 | |
| 1448.653 -1.570 | 10.115 -1.570 | 10.115 -1.570 | 10.227 -1.570 | 11.797 -1.570 | 1448.653 | |
| 1460.000 -0.932 | 10.157 -0.932 | 10.157 -0.932 | 10.369 -0.932 | 10.731 -0.932 | 1460.000 | |
| 1465.653 -0.005 | 10.231 -0.005 | 10.231 -0.005 | 10.433 -0.005 | 10.433 -0.005 | 1465.653 | |
| 1480.000 1.455 | 10.652 1.455 | 10.764 1.455 | 10.764 1.455 | 10.209 1.455 | 1480.000 | |
| 1487.804 1.813 | 10.808 1.813 | 10.808 1.813 | 10.820 1.813 | 9.107 1.813 | 1487.804 | |
| 1500.000 1.876 | 10.960 1.876 | 10.960 1.876 | 11.102 1.876 | 8.226 1.876 | 1500.000 | |
| 1502.804 1.846 | 11.014 1.846 | 11.014 1.846 | 11.286 1.846 | 8.280 1.846 | 1502.804 | |
| 1511.804 1.746 | 11.048 1.746 | 11.048 1.746 | 11.445 1.746 | 8.414 1.746 | 1511.804 | |
| 1517.804 1.704 | 11.033 1.704 | 11.033 1.704 | 11.445 1.704 | 8.414 1.704 | 1517.804 | |
| 1520.000 1.684 | 11.022 1.684 | 11.022 1.684 | 11.434 1.684 | 8.450 1.684 | 1520.000 | |
| 1540.000 1.407 | 10.922 1.407 | 10.922 1.407 | 11.034 1.407 | 9.627 1.407 | 1540.000 | |
| 1560.000 0.909 | 10.822 0.909 | 10.822 0.909 | 10.934 0.909 | 10.025 0.909 | 1560.000 | |
| 1564.556 0.635 | 10.759 0.635 | 10.759 0.635 | 10.811 0.635 | 10.111 0.635 | 1564.556 | |
| 1571.270 0.468 | 10.726 0.468 | 10.726 0.468 | 10.678 0.468 | 10.242 0.468 | 1571.270 | |
| 1580.000 0.341 | 10.722 0.341 | 10.722 0.341 | 10.634 0.341 | 10.269 0.341 | 1580.000 | |
| 1584.241 0.205 | 10.671 0.205 | 10.671 0.205 | 10.589 0.205 | 10.388 0.205 | 1584.241 | |
| 1584.241 0.189 | 10.671 0.189 | 10.671 0.189 | 10.589 0.189 | 10.388 0.189 | 1584.241 | |
| 1600.000 0.118 | 10.622 0.118 | 10.622 0.118 | 10.734 0.118 | 10.242 0.118 | 1600.000 | |
| 1620.000 -0.147 | 10.522 -0.147 | 10.522 -0.147 | 10.634 -0.147 | 10.781 -0.147 | 1620.000 | |
| 1636.804 -0.267 | 10.439 -0.267 | 10.439 -0.267 | 10.551 -0.267 | 10.818 -0.267 | 1636.804 | |
| 1640.000 -0.246 | 10.456 -0.246 | 10.456 -0.246 | 10.589 -0.246 | 10.814 -0.246 | 1640.000 | |
| 1648.886 -0.211 | 10.496 -0.211 | 10.496 -0.211 | 10.613 -0.211 | 10.824 -0.211 | 1648.886 | |
| 1652.716 -0.088 | 10.483 -0.088 | 10.483 -0.088 | 10.725 -0.088 | 10.812 -0.088 | 1652.716 | |

⊗ REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS

BEN CRESCENT ROAD 60 - LONGITUDINAL SECTION

HORIZ SCALE: 1000
VERTICAL SCALE: 100

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



BEN CRESCENT ROAD 60 - CROSS SECTION

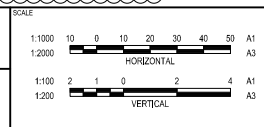
SCALE: 1:100

* REFER BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| A | 24/01/20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 08/05/20 | 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 19B

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UW REF NO. 2017011039s19B

BEN CRESCENT ROAD 60 LONGITUDINAL AND CROSS SECTIONS

PROJECT NO. 17-002277.4
DRAWING NO. 303
REVISION B

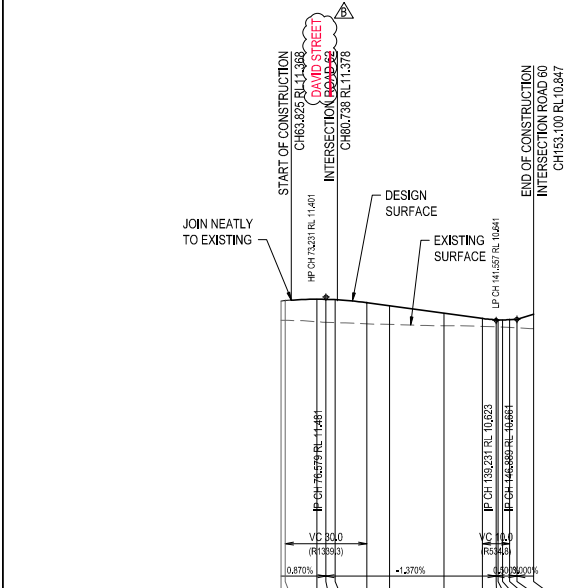
PRELIMINARY PAVEMENT DESIGN

| ROAD | SUBGRADE CBR | TRAFFIC ESA'S | ROAD CLASS | SURFACING (mm) | BASE (mm) | SUB-BASE (mm) | BLANKET (mm) | TOTAL BOX (mm) |
|---------------------------------|--------------|---------------------|-------------------------|----------------|-----------|---------------|--------------|----------------|
| ROAD 64 CH63.825 - CH153.100 | 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 CH63.825 - CH153.100 | 7 | 4 x 10 ⁴ | RESIDENTIAL ACCESS (A1) | 30 | 100 | 100 | 220 | 450 |



| CUT (-) / FILL | 0.717 | 1.255 | 1.295 | 1.299 | 1.291 | 1.281 | 1.274 | 1.267 | 1.263 | 1.261 | 1.260 | 1.260 | 1.260 | 1.260 | 1.260 | 1.260 | 1.260 | 1.260 | 1.260 | 1.260 | |
|-------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--|
| LHS LIP LEVEL | 11.255 | 11.295 | 11.299 | 11.291 | 11.281 | 11.274 | 11.267 | 11.263 | 11.261 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | |
| RHS LIP LEVEL | 11.295 | 11.299 | 11.291 | 11.281 | 11.274 | 11.267 | 11.263 | 11.261 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | 11.260 | |
| DESIGN SURFACE | 11.337 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | 11.331 | |
| EXISTING SURFACE | 10.650 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | 10.652 | |
| CHAINAGES | 60.000 | 61.679 | 73.231 | 76.679 | 80.000 | 81.679 | 100.000 | 120.000 | 134.231 | 139.231 | 140.000 | 141.557 | 144.231 | 146.889 | 153.100 | | | | | | |
| HORIZONTAL CURVES | | | | | | | | | | | | | | | | | | | | | |

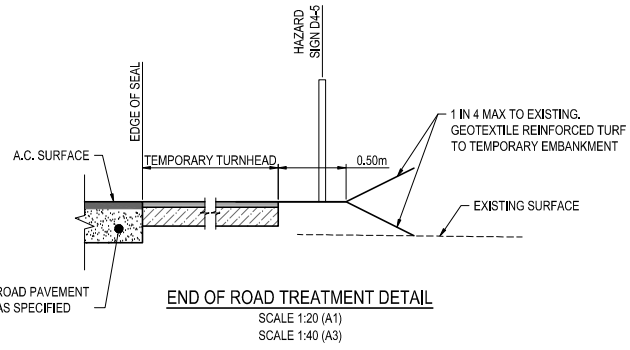
OXLEY STREET ROAD 64 - LONGITUDINAL SECTION
 HORIZ SCALE: 1000
 VERTICAL SCALE: 100

- 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.

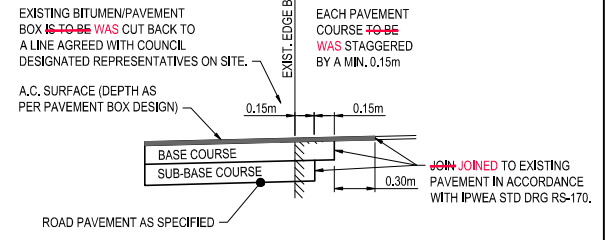
NOTE:
PROVIDE PROVIDED 2m² OF ROCK SCOUR PROTECTION TO ENDS OF KERB AND CHANNEL WHERE ROAD FALLS AWAY (TYPICAL)

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

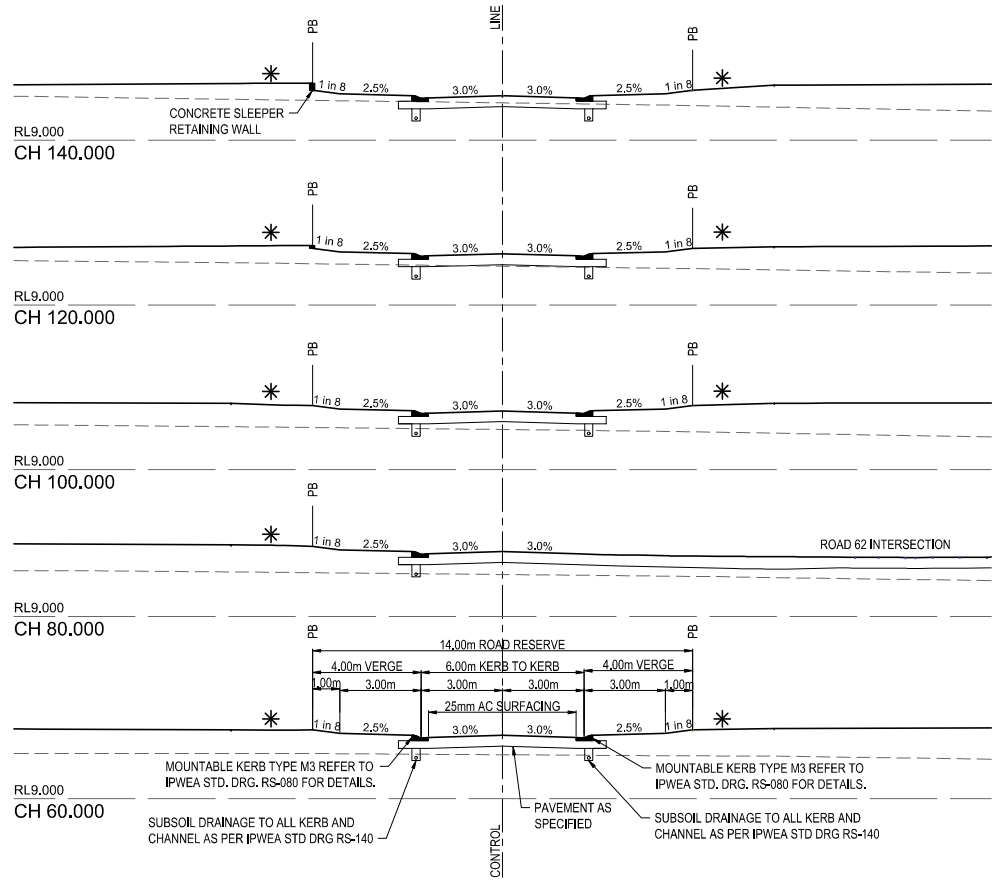
AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: DATE: 20-05-2020
 DANIEL COLLINS RPEQ 18631



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

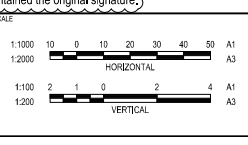


OXLEY STREET ROAD 64 - CROSS SECTION
 SCALE: 1:100
 * REFER BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 08.05.20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

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



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RIVERBANK ESTATE STAGE 19B

PROJECT NO: 17-002277.4
 DRAWING NO: 304
 REVISION: B

UW REF NO. 2017011039s19B

OXLEY STREET ROAD 64
 LONGITUDINAL AND CROSS SECTIONS

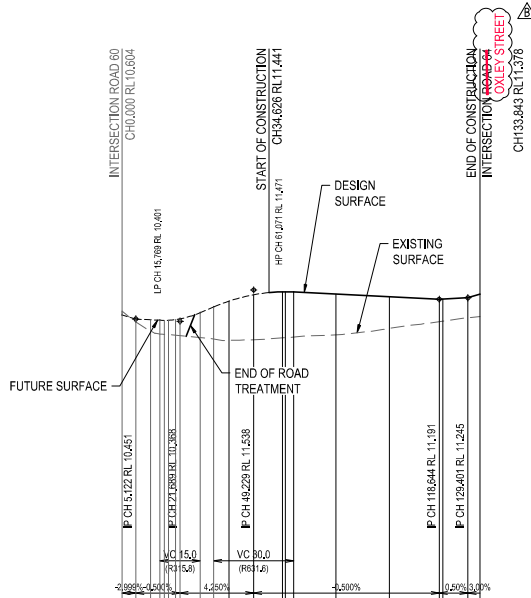
PRELIMINARY PAVEMENT DESIGN

| ROAD | SUBGRADE CBR | TRAFFIC ESA'S | ROAD CLASS | SURFACING (mm) | BASE (mm) | SUB-BASE (mm) | BLANKET (mm) | TOTAL BOX (mm) |
|---------------------------------|--------------|---------------------|-------------------------|----------------|-----------|---------------|--------------|----------------|
| ROAD 62 CH38,593 - CH133,843 | 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) |
|--------------------------------------|--------------|---------------------|-------------------------|----------------|-----------|---------------|--------------|----------------|
| DAVID STREET CH38,593 - CH133,843 | 11 | 4 x 10 ⁴ | RESIDENTIAL ACCESS (A1) | 30 | 100 | 100 | 220 | 450 |

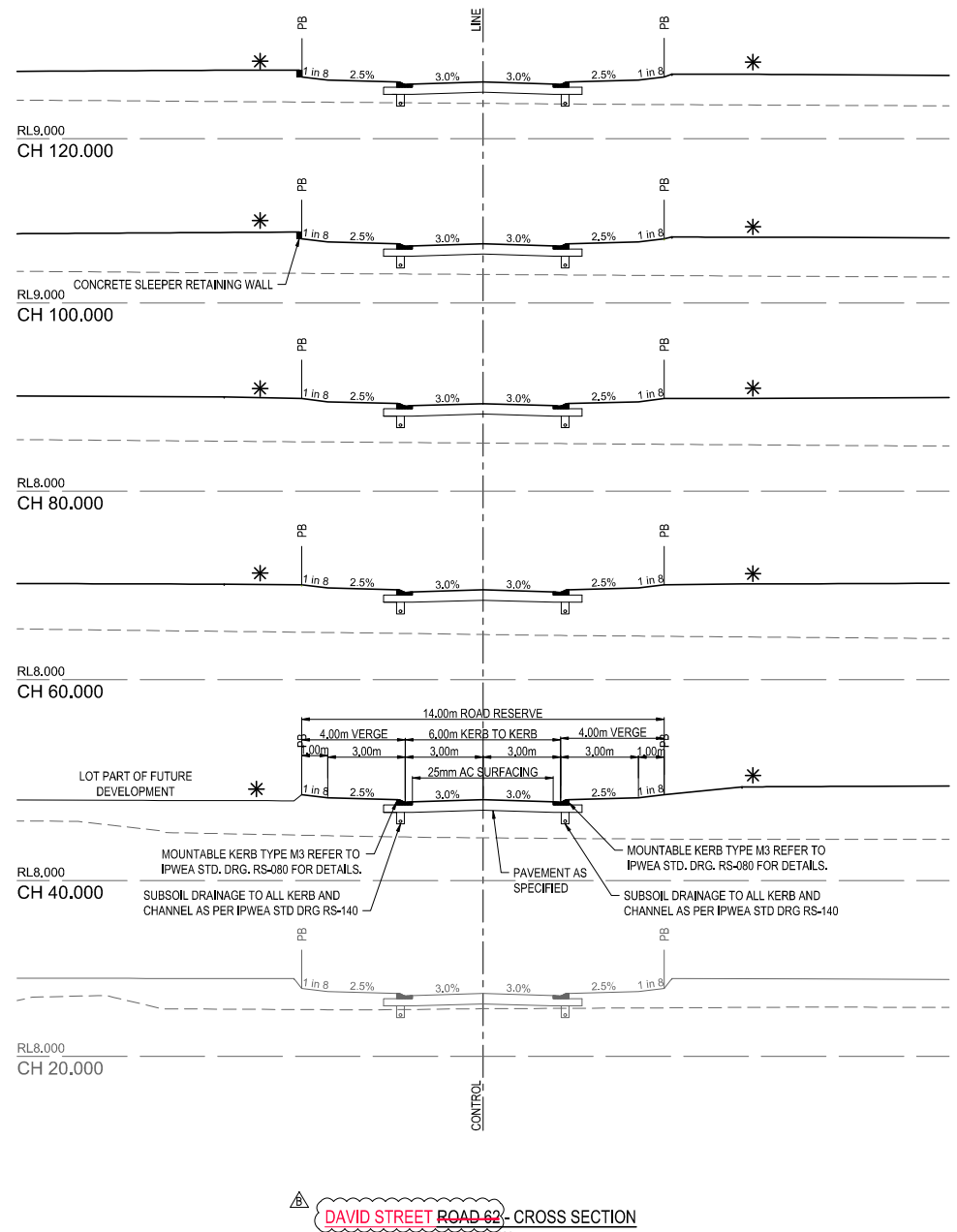


- PAVEMENT DESIGN NOTES:
- PRELIMINARY PAVEMENT DESIGNS HAVE BEEN ~~WERE~~ BASED ON THE ASSUMED SUBGRADE. ACTUAL PAVEMENT DESIGNS ~~WILL BE~~ **WERE** BASED ON TEST RESULTS TAKEN AFTER STRIPPING HAS BEEN COMPLETED.
 - PRIMESEAL (10mm THICK) ~~IS TO BE~~ **WAS** PLACED UNDER ALL ASPHALT SURFACE COURSES
 - ~~INCREASE~~ **INCREASED** A.C. THICKNESS BY 7mm IN AREAS OF 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~~ **WAS** 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)

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

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



DAVID STREET ROAD 62 - CROSS SECTION
SCALE: 1:100

* REFER BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS

| | DATUM RL -1.0 | |
|-------------------|---------------|--------|
| CUT (-) / FILL | -4.039 | 1.187 |
| LHS LIP LEVEL | 0.000 | 11.009 |
| RHS LIP LEVEL | 0.000 | 11.009 |
| DESIGN SURFACE | 10.604 | 11.284 |
| EXISTING SURFACE | 10.433 | 11.191 |
| CHAINAGES | 0.000 | 10.098 |
| HORIZONTAL CURVES | R=30.000 | |

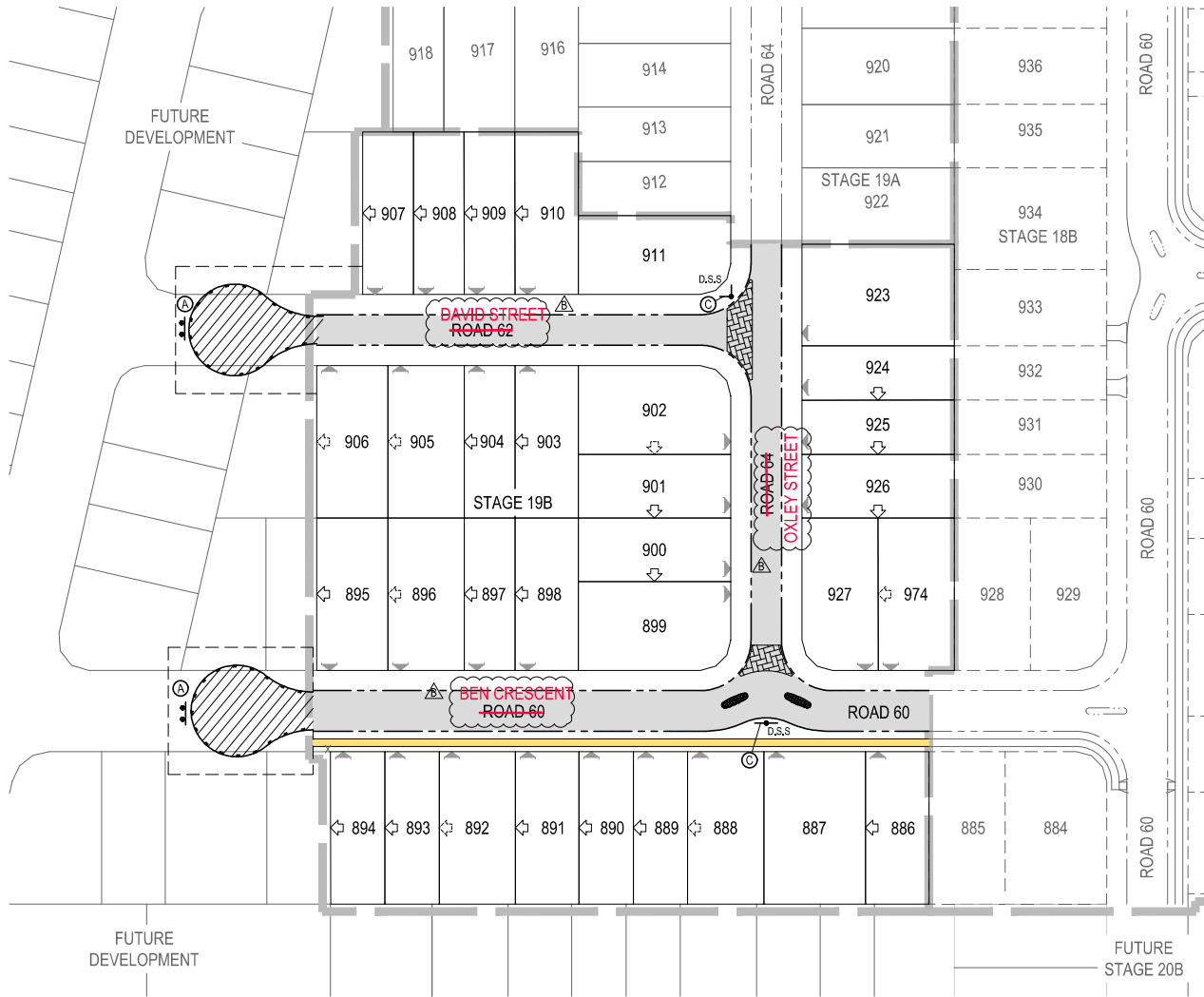
REFER INTERSECTION DETAILS DRAWINGS FOR DETAILS
DAVID STREET ROAD 62 - LONGITUDINAL SECTION
HORIZ SCALE: 1:1000
VERTICAL SCALE: 1:100

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 | PROJECT NO. | DRAWING NO. | REVISION |
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | DT | CR | | | 1:1000 1:2000 | PEET CAROOLTURE SYNDICATE LTD | RIVERBANK ESTATE STAGE 19B | 17-002277.4 | 305 | B |
| B | 18.05.20 | AS CONSTRUCTED | EG | CR | | | 1:100 1:200 | calbre calbregroup.com | | | | |

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

UW REF No. 2017011039s19B
DAVID STREET ROAD 62 LONGITUDINAL AND CROSS SECTIONS
PROJECT NO. 17-002277.4
DRAWING NO. 305
REVISION B



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
G5-10
(C)

NOTES:

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

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

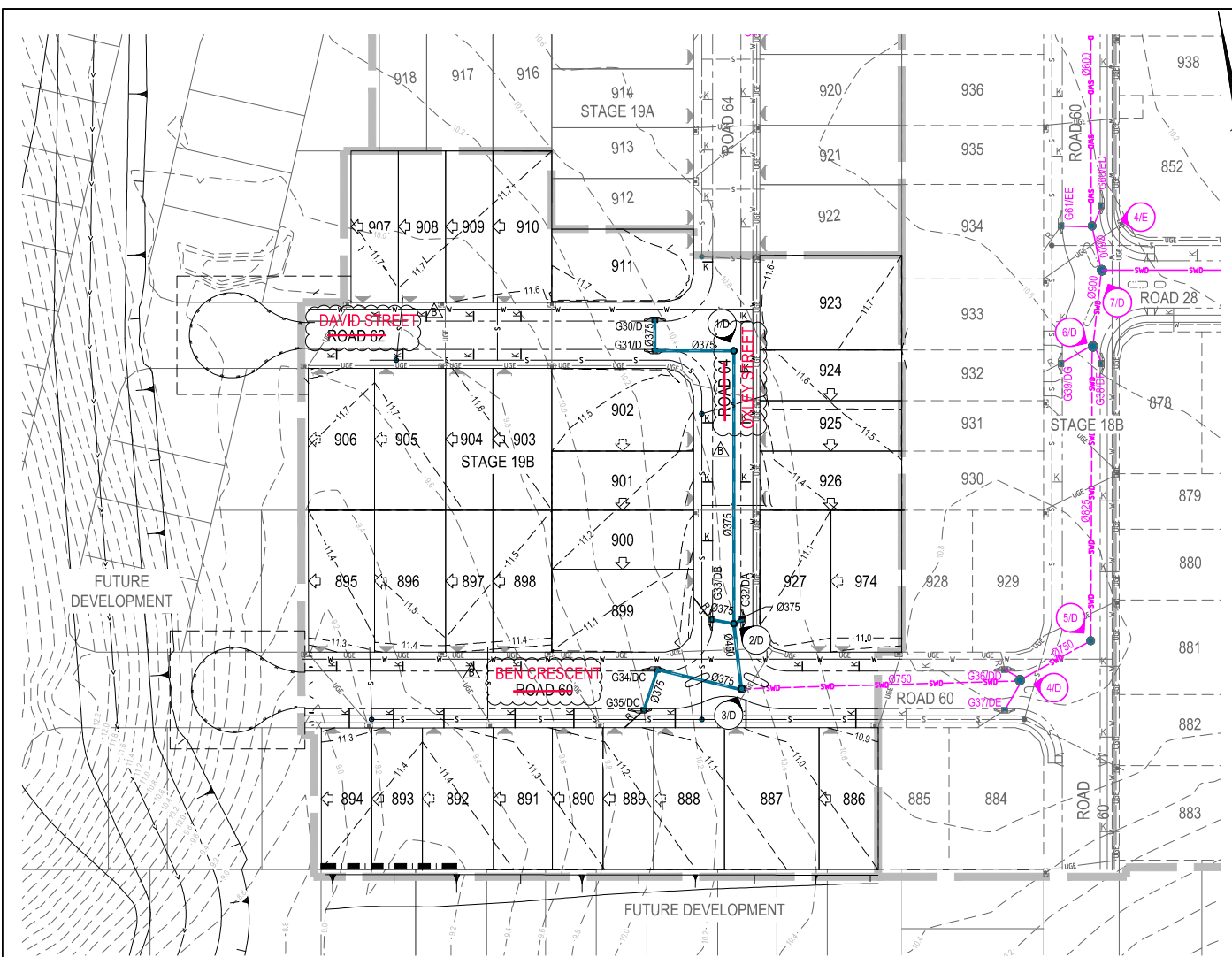
AS CONSTRUCTED DETAILS
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SIGNED: _____ DATE 20-05-2020
DANIEL COLLINS RPEQ 18631

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| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------------|--|--------------------------------|--|------------------------|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|---------------------------|--|----------------------|--|
| REVISION A 24.01.20 ISSUED FOR CONSTRUCTION B 08.05.20 AS CONSTRUCTED | | ISSUE DETAILS | | DRAWN GT CR EG CR | | DESIGN CR CR | | DRAWN CHECK | | STATUS AS CONSTRUCTED | | SCALE 1:500 1:1000 | | CLIENT PEET CAROOLTURE SYNDICATE LTD | | PROJECT RIVERBANK ESTATE STAGE 19B | | DRAWING TITLE SIGNS AND LINEMARKING LAYOUT PLAN | | | | | |
| APPROVED: DANIEL COLLINS RPEQ 18631 FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD | | | | | | | | | | SCALE 1:500 1:1000 | | CLIENT PEET CAROOLTURE SYNDICATE LTD | | PROJECT RIVERBANK ESTATE STAGE 19B | | DRAWING TITLE SIGNS AND LINEMARKING LAYOUT PLAN | | PROJECT NO. 17-002277.4 | | DRAWING NO. 306 | | 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.



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 600Ø ~~SHALL BE ARE~~ R.R.J. STORMWATER PIPES GREATER THAN 600Ø ~~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 TURFING ~~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~~ ~~CONNECTED~~ TO KERBS 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 COMPLIED~~ 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

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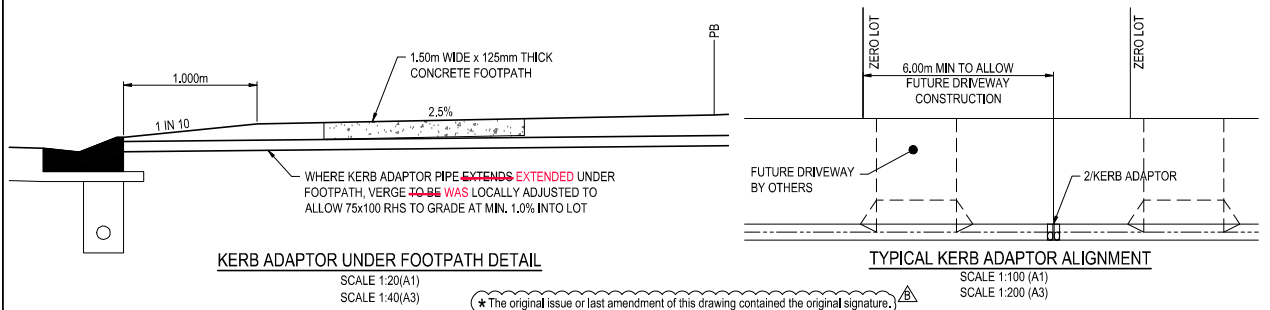
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SIGNED: DATE: 20-05-2020
DANIEL COLLINS RPEQ 18631

LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED STORMWATER DRAINAGE
- EXISTING STORMWATER DRAINAGE
- FUTURE STORMWATER DRAINAGE
- KERB ADAPTOR
- ROOF WATER 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
- ZERO LOT BOUNDARY MANDATORY
- ZERO LOT BOUNDARY NOMINAL
- PROPOSED ENERGEK LINE UNDERGROUND
- PROPOSED ELECTRICAL PIT
- PROPOSED NBN PITS

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:
ALL STORMWATER PIPES ARE 300Ø UNLESS SHOWN OTHERWISE.



| REVISION | DATE | ISSUE DETAILS |
|----------|----------|-------------------------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION |
| B | 08.05.20 | AS CONSTRUCTED |

| DRAWN | DESIGN | DRAWN CHECK | STATUS |
|-------|--------|-------------|--------|
| GT | CR | | |
| EG | CR | | |

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

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RIVERBANK ESTATE STAGE 19B

CLIENT: RIVERBANK ESTATE STAGE 19B

PROJECT: RIVERBANK ESTATE STAGE 19B

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STORMWATER DRAINAGE LAYOUT PLAN

PROJECT NO: 17-002277.4

DRAWING NO: 400

REVISION: B

UW REF No. 2017011039s19B

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

AS CONSTRUCTED

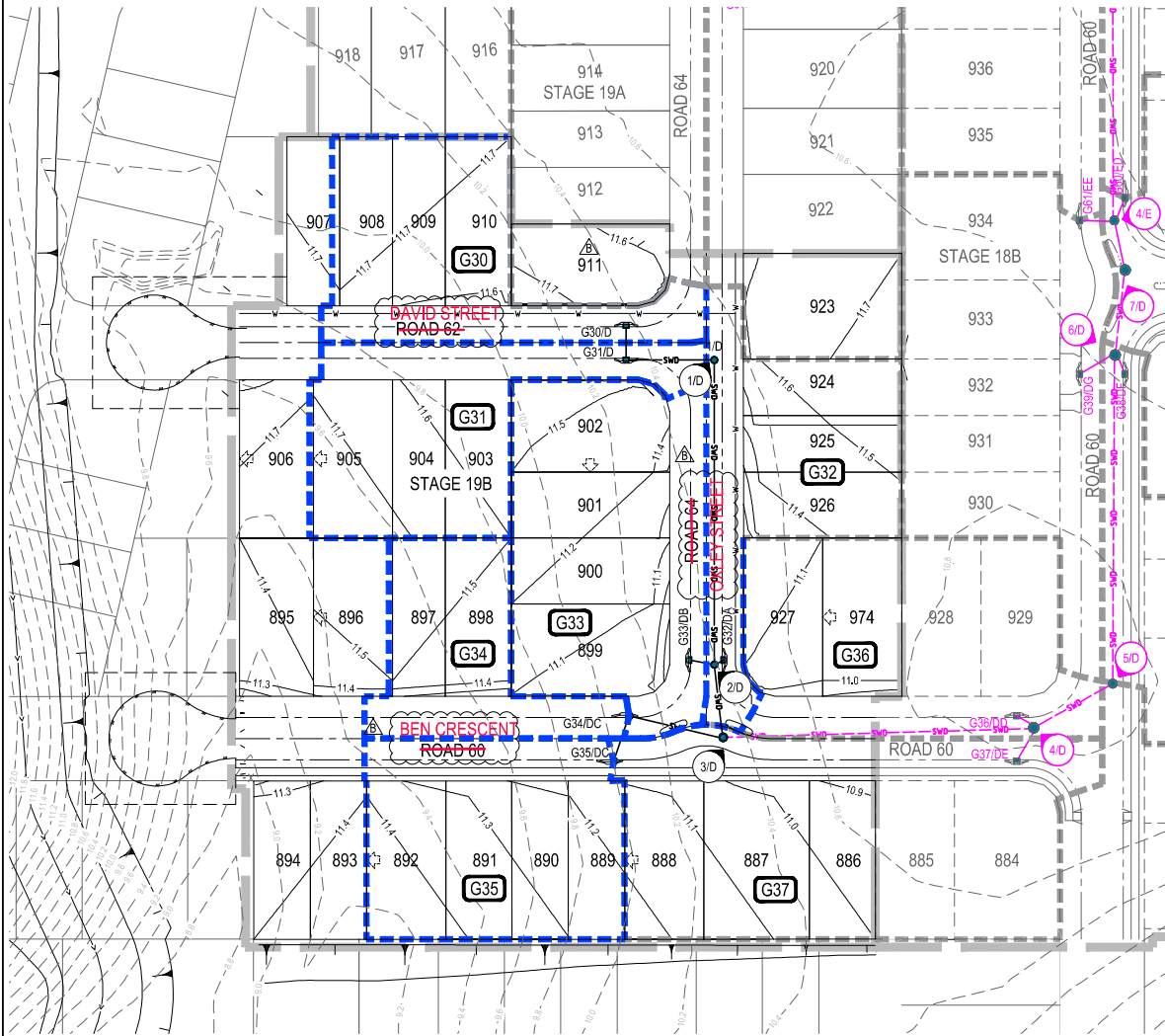
APPROVED: DANIEL COLLINS RPEQ 18631

DANIEL COLLINS

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

LEGEND

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



CATCHMENT TABLE

| CATCHMENT NAME | CATCHMENT AREA (Ha) |
|----------------|---------------------|
| G30 | 0.163 |
| G31 | 0.168 |
| G32 | 0.162 |
| G33 | 0.230 |
| G34 | 0.109 |
| G35 | 0.184 |
| G36 | 0.236 |
| G37 | 0.327 |

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DANIEL COLLINS RPEQ 18631

| 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 (CAT7 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 (CAT9 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 |

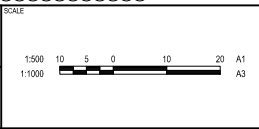
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| A | 24.01.20 | ISSUED FOR CONSTRUCTION |
| B | 08/04/20 | AS CONSTRUCTED |

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

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



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RIVERBANK ESTATE STAGE 19B

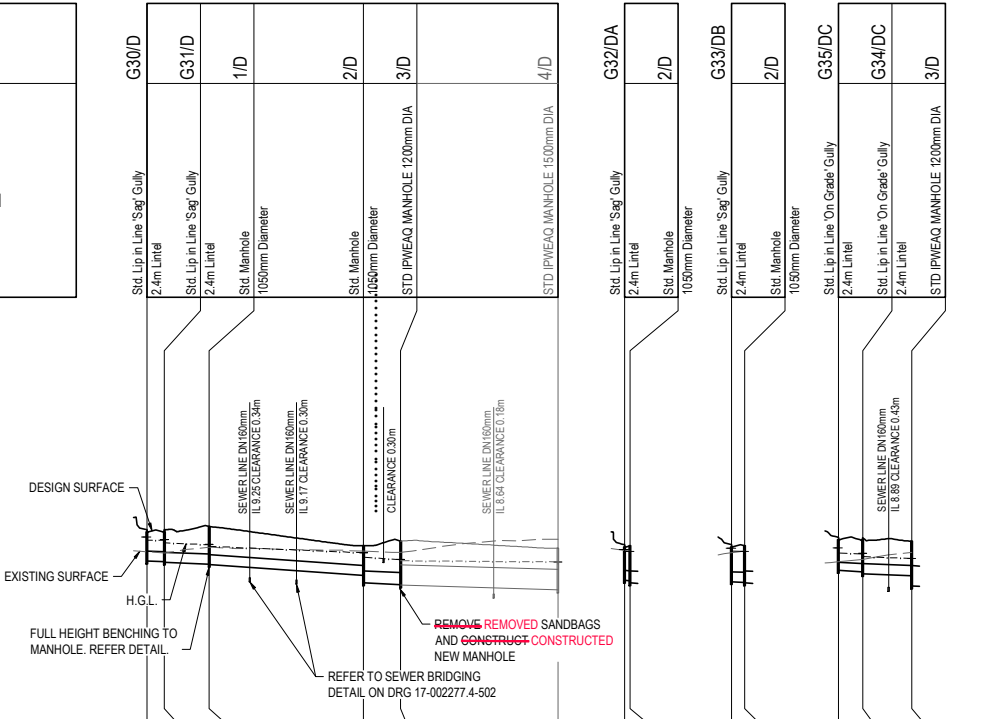
CLIENT: RIVERBANK ESTATE STAGE 19B

STORMWATER DRAINAGE CATCHMENT PLAN

PROJECT NO: 17-002277.4
DRAWING NO: 401
REVISION: B

UW REF No. 2017011039s19B

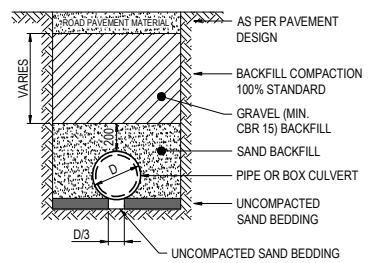
| |
|-----------------------|
| STRUCTURE NAME |
| STRUCTURE DESCRIPTION |



| | | | | | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PIPE SIZEmm (Class) | 375(3) | 375(3) | 375(3) | 450(3) | 750(3) | 375(3) | 375(3) | 300(3) | 375(3) |
| PIPE GRADE % | 0.37% | 0.73% | 0.49% | 0.47% | 0.30% | 4.78% | 1.02% | 0.48% | 0.35% |
| PIPE SLOPE 1 in X | 250.00 | 250.00 | 142.00 | 222.22 | 333.33 | 400.00 | 200.00 | 405.42 | 297.25 |
| FULL PIPE FLOW VELOCITY (m/s) | 270.27 | 136.99 | 204.08 | 212.77 | 0.73 | 20.92 | 98.04 | 208.22 | 285.71 |
| PART FULL FLOW VELOCITY (m/s) | 0.62 | 1.03 | 1.03 | 1.51 | 0.73 | 0.62 | 0.80 | 0.93 | 0.97 |

| | | | | | | | | | |
|--------------------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| WATER LEVEL IN STRUCTURE | 10.917 | 10.817 | 10.826 | 10.644 | 10.333 | 10.170 | 10.071 | 10.076 | 9.990 |
| HYDRAULIC GRADE LEVEL | 10.917 | 10.812 | 10.802 | 10.634 | 10.333 | 10.170 | 10.071 | 10.037 | 9.969 |
| PIPE FLOW (Cumecs) | 0.068 | 0.114 | 0.114 | 0.241 | 0.332 | 0.508 | 0.068 | 0.088 | 0.107 |
| DEPTH TO INVERT | 1.066 | 1.110 | 1.142 | 1.130 | 1.110 | 1.130 | 1.130 | 1.130 | 1.130 |
| INVERT LEVEL OF DRAIN | 10.069 | 10.010 | 9.997 | 9.979 | 9.470 | 9.406 | 9.270 | 9.270 | 9.270 |
| DESIGN SURFACE LEVEL | 11.120 | 11.120 | 11.068 | 11.320 | 10.590 | 10.590 | 10.620 | 10.620 | 10.620 |
| SETOUT | E552.526 | N2889.995 | E551.483 | N2883.481 | E558.942 | N2823.874 | E558.942 | N2818.007 | E558.445 |
| RUNNING CHAINAGE | 0.000 | 5.610 | 5.935 | 15.660 | 20.295 | 21.270 | 56.560 | 57.788 | 77.980 |

NOTES:
 1. NOTWITHSTANDING THE STORMWATER STRUCTURE LEVELS SHOWN, THE COVER OR GRATE LEVEL **SHALL NOT** SUIT THE FINISHED SURFACE PROFILE.
 2. 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 17-002277.4-401

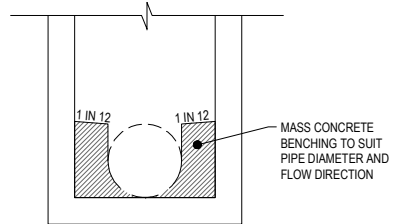


TRENCH DETAIL TO ROADWAYS - TYPE U
SCALE: N.T.S.

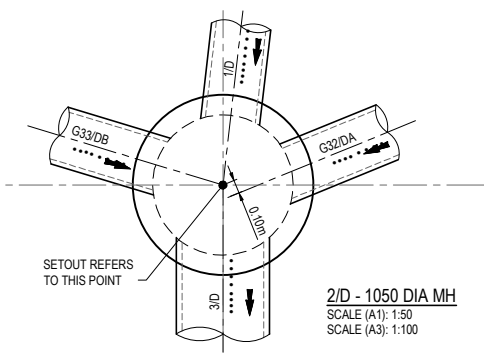
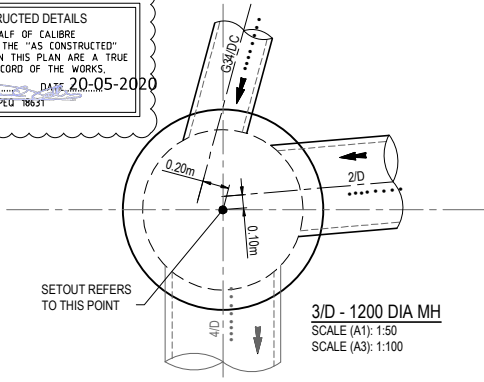
TRENCH NOTES:
 1. TYPICAL TYPE U TRENCH TO CABOOLTURE SHIRE COUNCIL STANDARD DRAWING 01-83.
 2. ALL WORKS **SHALL BE WERE** CONSTRUCTED IN ACCORDANCE WITH MAIN ROADS SPECIFICATIONS FOR ROADWORKS WITH THE EXCEPTION OF ASPHALT SURFACING FOR ACCESS AND COLLECTOR ROADS WHICH **SHALL BE WERE** IN ACCORDANCE 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 VALLUE
 DOS = DEGREE OF SATURATION FOR BASE (FINAL) LAYER

| 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 19B 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 RPEU 18631



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

| | | | | | | |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | DT | CR | | |
| B | 08.05.20 | AS CONSTRUCTED | EG | CR | | |

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

CLIENT: PEET CABOOLTURE SYNDICATE LTD

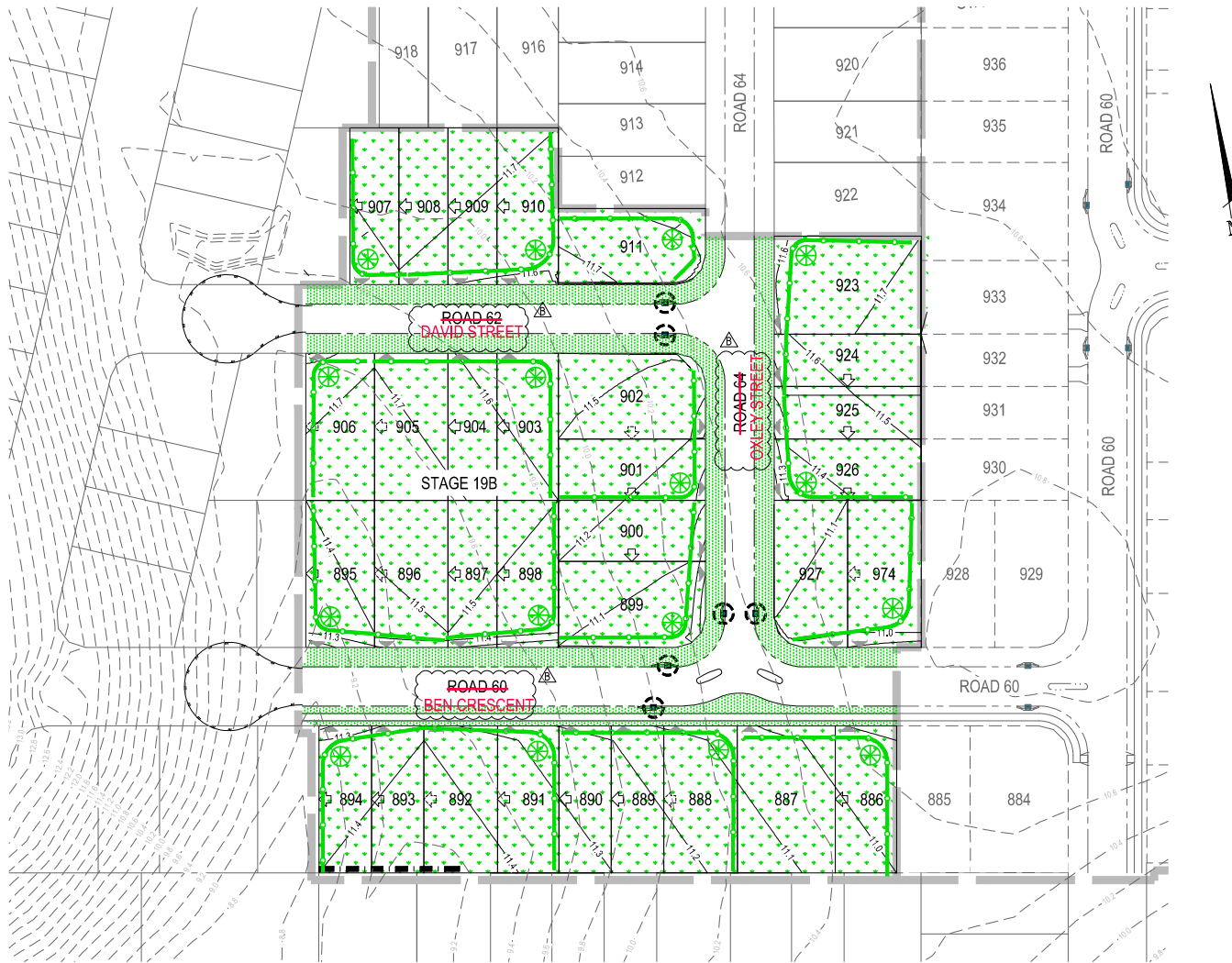
PROJECT: RIVERBANK ESTATE STAGE 19B

DRAWING TITLE: STORMWATER DRAINAGE LONGITUDINAL SECTIONS

UW REF No. 2017011039s19B

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

PROJECT No: 17-002277.4
 DRAWING No: 402
 REVISION: 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 GULLET 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. 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~~ FELL 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 19B 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

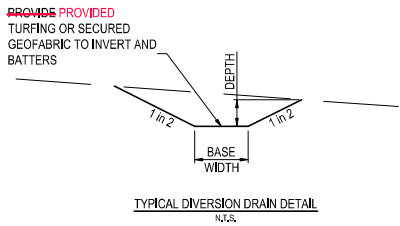
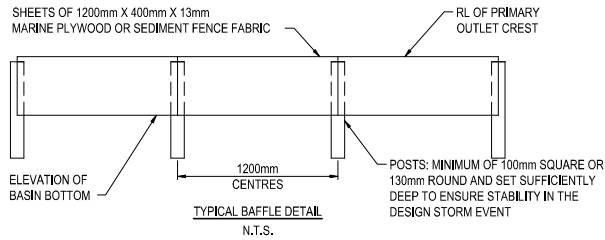
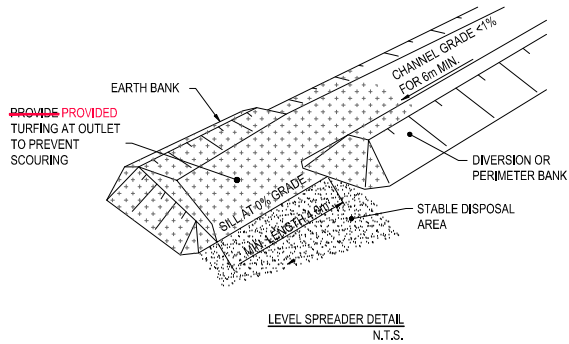
* The original issue or last amendment of this drawing contained the original signature.

| | | | | | | | | | | | | | |
|--|--|--------------------------------------|--|--|--|--|--|--|--|---|--|--|--|
| REVISION DATE ISSUE DETAILS A 24/1/20 ISSUED FOR CONSTRUCTION B 06/2/20 AS CONSTRUCTED | | DRAWN DESIGN GT CR EG CR | | DRAWN CHECK STATUS AS CONSTRUCTED | | SCALE 1:500 1:1000 | | CLIENT PEET CARBOULTURE SYNDICATE LTD | | PROJECT RIVERBANK ESTATE STAGE 19B | | DRAWING TITLE SEDIMENT AND EROSION LAYOUT PLAN | |
| DESIGN CHECK APPROVED DANIEL COLLINS RPEQ 18631 | | | | CLIENT PEET CARBOULTURE SYNDICATE LTD | | PROJECT RIVERBANK ESTATE STAGE 19B | | DRAWING TITLE SEDIMENT AND EROSION LAYOUT PLAN | | PROJECT NO. DRAWING NO. REVISION 17-002277.4 800 B | | | |

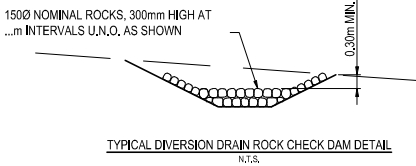
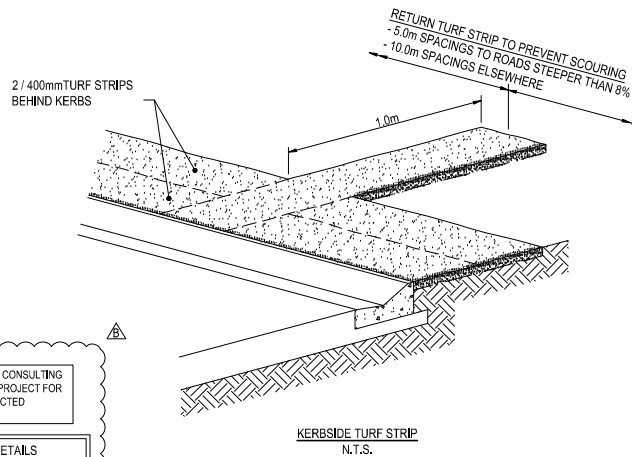
UW REF No. 2017011039s19B

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



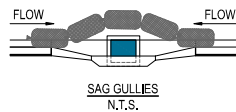
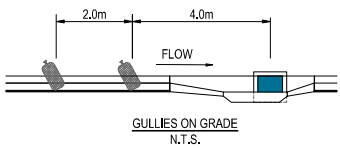


| DRAIN TYPE | BASE WIDTH | DEPTH | MIN SLOPE |
|------------|------------|-------|-----------|
| DIRTY A1 | ...m | ...m | ...% |
| DIRTY A2 | ...m | ...m | ...% |
| DIRTY B1 | ...m | ...m | ...% |
| DIRTY B1 | ...m | ...m | ...% |

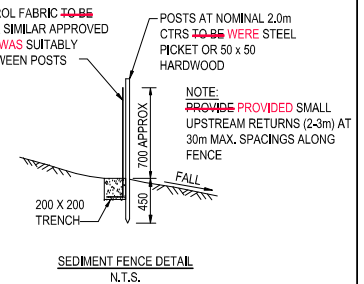
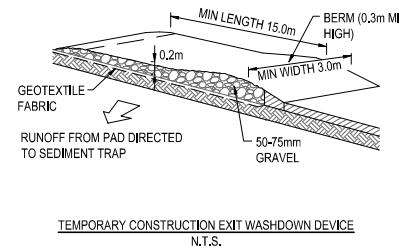
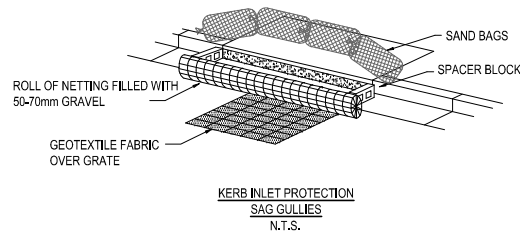


PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B FINAL CONSTRUCTED INFORMATION.

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



SANDBAGS AT GULLIES TO BE PROVIDED AT ALL GULLIES



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.
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19. 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 | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | | | PEET | RIVERBANK ESTATE STAGE 19B | SEDIMENT AND EROSION DETAILS | | |
| B | 08.03.20 | AS CONSTRUCTED | EG | CR | | | | calbre | | | | |
| <p>DESIGN CHECK APPROVED: DANIEL COLLINS RPEQ 18631 (* DANIEL COLLINS) FOR & ON BEHALF OF CALBRE CONSULTING (OLD) PTY LTD</p> | | | | | | | <p>CLIENT: CAROOLTURE SYNDICATE LTD</p> | | <p>PROJECT: RIVERBANK ESTATE STAGE 19B</p> | | <p>DRAWING TITLE: SEDIMENT AND EROSION DETAILS</p> | |
| <p>REVISION: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.</p> | | | | | | | | | | <p>PROJECT NO: 17-002277.4</p> | <p>DRAWING NO: 801</p> | <p>REVISION: B</p> |

UW REF NO. 2017011039s19B

PEET
CAROOLTURE SYNDICATE LTD

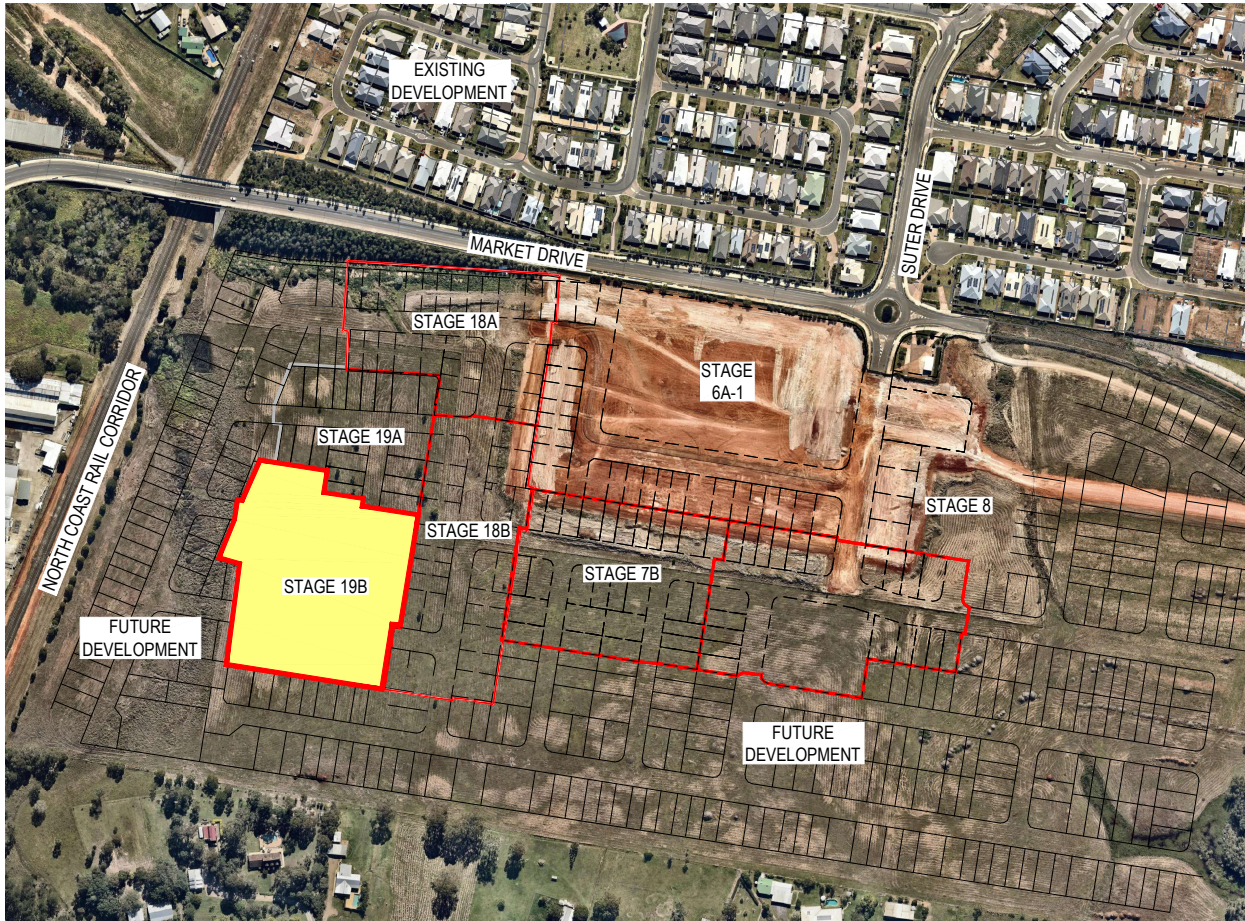
calbre
calbregroup.com

RIVERBANK ESTATE STAGE 19B

SEDIMENT AND EROSION DETAILS

RIVERBANK ESTATE

LOT 1008 WATERSIDE ESPLANADE CABOOLTURE SOUTH
 STAGE 19B
 FOR PEET CABOOLTURE SYNDICATE LTD



LOCALITY PLAN
 NTS

MORETON BAY
 REGIONAL COUNCIL
 AREA OF SITE: 1.83ha

LOT INFORMATION
 EXISTING LOTS
 LOT 1007 SP295486
 LOT 1008 SP295506
 PROPOSED NO. OF LOTS: 32

| DRAWING NO. | DRAWING TITLE |
|----------------------------------|---|
| 000 | COVER SHEET, LOCALITY PLAN AND DRAWING INDEX |
| BULK EARTHWORKS | |
| 200 | BULK EARTHWORKS LAYOUT PLAN |
| 201 | BULK EARTHWORKS SECTIONS |
| 202 | TEMPORARY SWALE LONGITUDINAL SECTION |
| 203 | COMPENSATORY EARTHWORKS LAYOUT PLAN |
| ROADWORKS | |
| 300 | SURVEY SETOUT LAYOUT PLAN AND SETOUT TABLES |
| 301 | ROADWORKS LAYOUT PLAN |
| 302 | INTERSECTION DETAILS PLAN AND SETOUT TABLES |
| 303 | BEN CRESCENT ROAD 60 LONGITUDINAL AND CROSS SECTIONS |
| 304 | OXLEY STREET ROAD 64 LONGITUDINAL AND CROSS SECTIONS |
| 305 | DAVID STREET ROAD 68 LONGITUDINAL AND CROSS SECTIONS |
| 306 | 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 SHEET 1 OF 2 |
| 503 | SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2 |
| 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 19B 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

RIVERBANK ESTATE

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

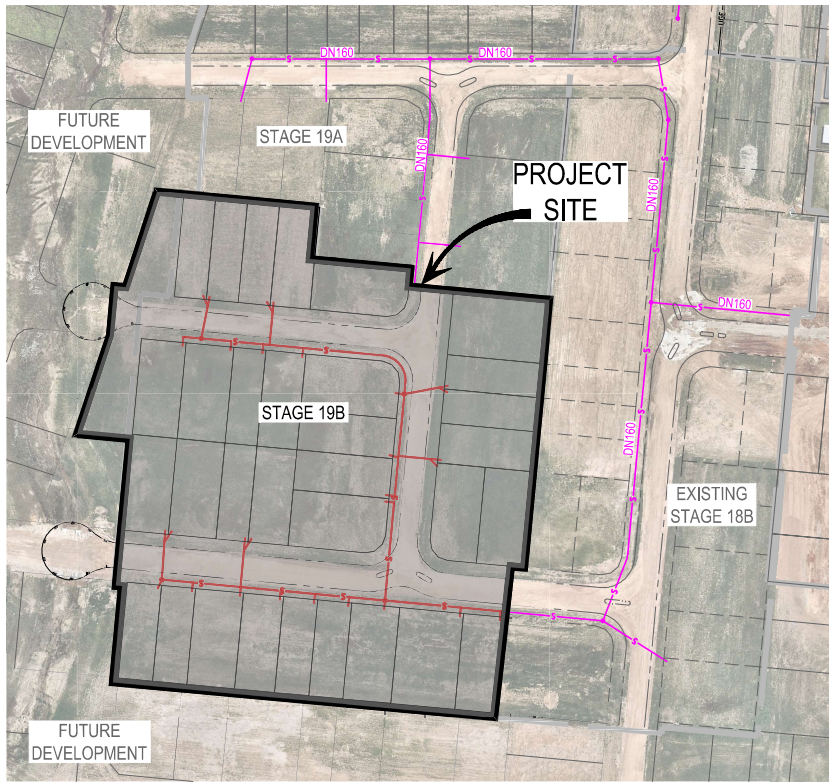
Project No.: 17-002277.4 Stage: 19B Milestone: AS Revision Date: 08.05.20 Drawing No.: 000 Revision: B

CONSTRUCTED

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.



LOCALITY PLAN
N.T.S.

| | | |
|------------------|-------|---------------------------|
| NAME OF ESTATE | | RIVERBANK ESTATE |
| SUBDIVIDER | | PEET CABOOLTURE SYNDICATE |
| APPLICATION No. | | 2017011039s19B |
| SP DELEGATE | | ** |
| APPROVAL DATE | | |
| DRAWING/PLAN No. | | 17-002277.4 - 500-502 |
| No. OF LOTS | | 32 |
| AREA IN Ha. | | 1.83 |
| LENGTH OF SEWERS | DN110 | 32 |
| | DN160 | 388.413m |

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

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B 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

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-SPs)
- 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 DN110 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-SPs.
- 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-SPs.
- 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 GIRDOLES ~~SHOULD BE WERE~~ CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDOLES ~~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.

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.

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

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.

LIVE WORKS TABLE

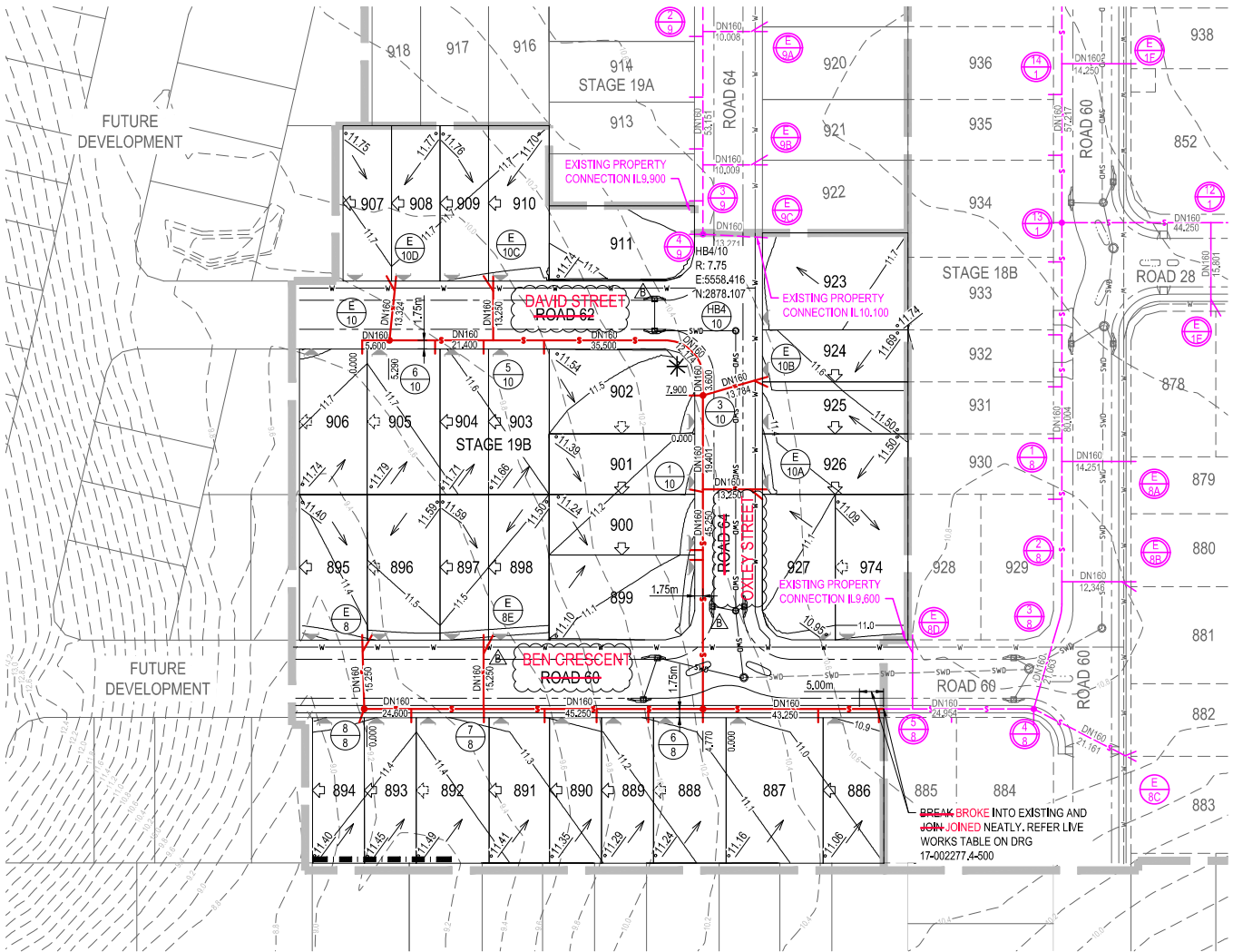
| NO. | DESCRIPTION | SEW DIA | MH No. | MH/MS TYPE | COVER TYPE | LOT No. | F.S.L. | E.S.L. | I.L. | DEPTH |
|------|---|---------|--------|------------|------------|---------|--------|--------|-------|--------|
| 1(A) | 5.00m FROM EXISTING STUB. CONTRACTOR, TO LAY NEW RETICULATION SEWERS. AFTER CLEANSING, TESTING AND INSPECTION, NOTIFY UNITYWATER. | DN160PE | 5/8 | END | - | 886 | 10.676 | 10.676 | 8.567 | 2.109m |
| 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 PROPERTY CONNECTION FOR LOT 886. | | | | | | | | | |

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

| | | | | | | | | | | | |
|----------|----------|-------------------------|-------|--------|--------------|--|-------|---|---------|-----------------------------------|---------------------------------------|
| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS | SCALE | CLIENT | PROJECT | DRAWING TITLE | |
| A | 24/01/20 | ISSUED FOR CONSTRUCTION | GT | CR | | AS CONSTRUCTED | | PEET CABOOLTURE SYNDICATE LTD | | RIVERBANK ESTATE STAGE 19B | SEWER RETICULATION COVER SHEET |
| 2 | 08/04/20 | AS CONSTRUCTED | GT | CR | | | | | | | |
| | | | | | DESIGN CHECK | APPROVED DANIEL COLLINS RPEQ 18631 (*) DANIEL COLLINS | | | | | PROJECT No. 17-002277.4 |
| | | | | | | FOR & ON BEHALF OF CALIBRE CONSULTING (QLD) PTY LTD | | | | | DRAWING No. 500 |
| | | | | | | | | | | | REVISION B |

UW REF No. 2017011039s19B

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



- 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
 - ZERO LOT BOUNDARY
 - INDICATIVE DRIVEWAY LOCATIONS
 - 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.

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 19B 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: 12-05-2020
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 | 24/1/20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 06/2/20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

APPROVED: DANIEL COLLINS RPEQ 18631

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

SCALE: 1:500 1:1000

PEET
CARBOULTURE SYNDICATE LTD

calibre
calbregroup.com

RIVERBANK ESTATE STAGE 19B

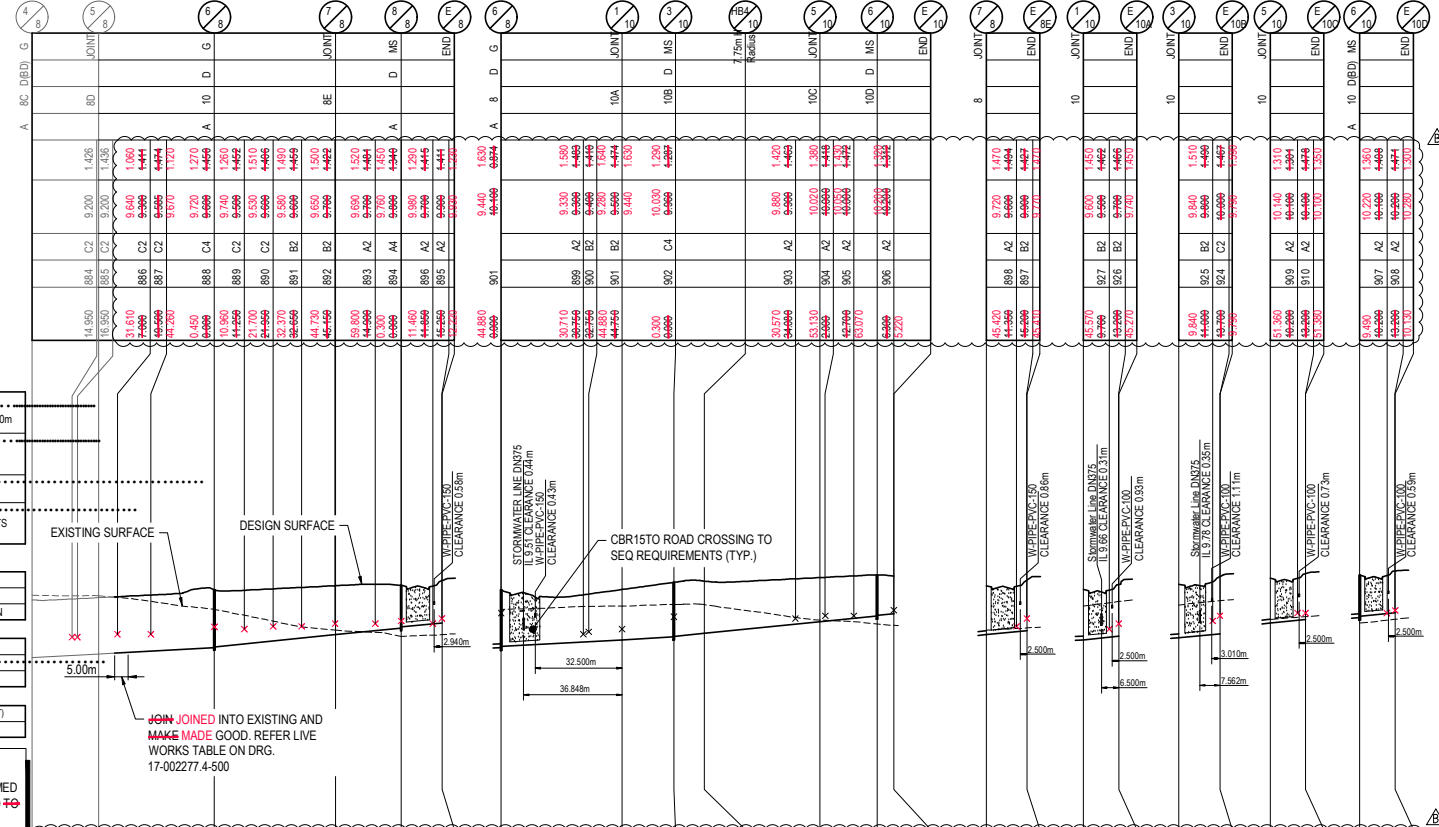
DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

SEWER RETICULATION LAYOUT PLAN

PROJECT NO: 17-002277.4 DRAWING NO: 501 REVISION: B

UW REF No. 2017011039s19B

| |
|----------------------------------|
| 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<5.00m |
| 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 |
| D | 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 **RE** WAS ADJUSTED IF REQUIRED AND TO SEQ-SEW-1201-1 & 1201-2

| LINE | 8 | 10 | 8E | 10A | 10B | 10C | 10D | |
|-----------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| STREET ETC | BEN CRESCENT ROAD-02 | | BEN CRESCENT ROAD-02 | | OXLEY STREET ROAD-02 | OXLEY STREET ROAD-02 | DAVID STREET ROAD-02 | DAVID STREET ROAD-02 |
| DIAMETER | 160 PE100 CLASS SDR21 | | 160 PE100 CLASS SDR21 | | 160 PE100 CLASS SDR21 | 160 PE100 CLASS SDR21 | 160 PE100 CLASS SDR21 | 160 PE100 CLASS SDR21 |
| GRADE | 1:188.68 1:108.08 | 1:97.09 1:108.08 | 1:185.19 1:108.08 | 1:144.93 1:108.08 | 1:99.01 1:108.08 | 1:114.94 1:108.08 | 1:185.19 1:108.08 | 1:114.94 1:108.08 |
| JUNCTION INVERT LEVEL | 8.455 | 8.847 | 9.099 | 9.227 | 9.773 | 10.008 | 9.290 | 9.967 |
| DEPTH TO INVERT | 2.159 | 2.109 | 2.050 | 2.027 | 1.835 | 1.480 | 1.618 | 1.550 |
| INVERT LEVEL OF SEWER | 8.428 | 8.623 | 9.099 | 9.227 | 9.773 | 10.010 | 9.800 | 10.130 |
| DESIGN SURFACE LEVEL | 10.587 | 10.540 | 10.882 | 11.250 | 11.408 | 11.470 | 11.580 | 11.672 |
| RUNNING CHAINAGE | 24.954 | 43.810 43.250 | 47.319 46.250 | 16.561 14.760 | 308.211 307.817 | 308.211 307.817 | 10.740 10.770 | 9.830 9.830 |

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 | |

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

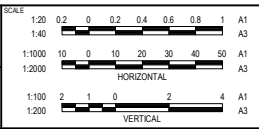
AS CONSTRUCTED DETAILS
 I CERTIFY ON BEHALF OF CALIBRE CONSULTING THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS.
 SIGNED: Daniel Collins DATE: 12-05-2020
 DANIEL COLLINS RPEQ 18631

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

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN/CHECK | STATUS |
|----------|----------|-------------------------|-------|--------|-------------|--------|
| 1 | 24.01.20 | ISSUED FOR CONSTRUCTION | DT | CR | | |
| 2 | 08.05.20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

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



CLIENT: **PEET** CARBOULTURE SYNDICATE LTD

PROJECT: **calibre** calibreregion.com

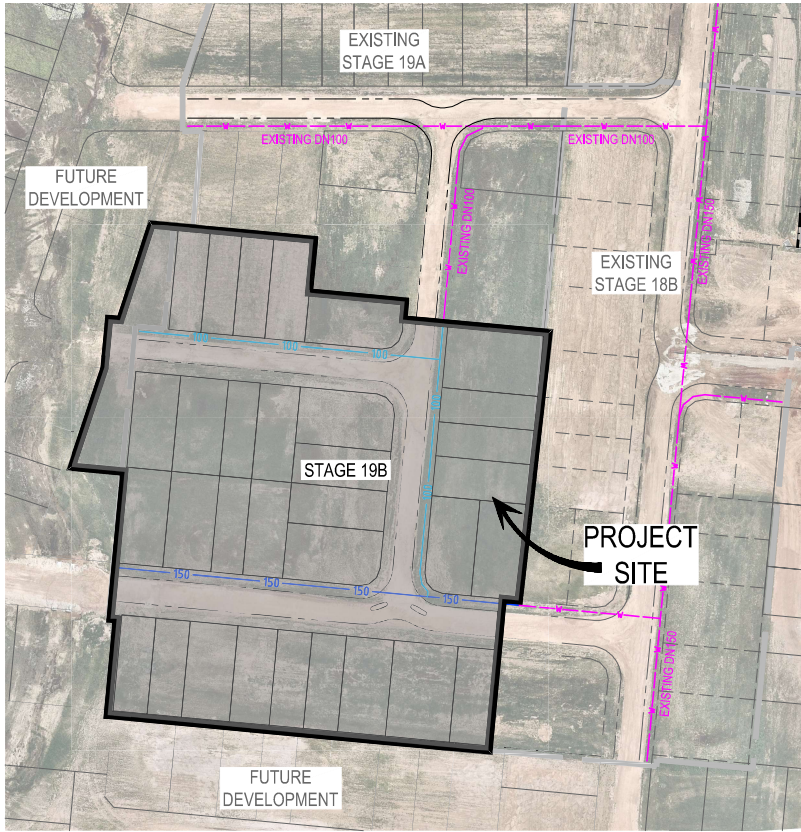
UW REF No. 2017011039s19B

RIVERBANK ESTATE STAGE 19B

SEWER RETICULATION LONGITUDINAL SECTIONS

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

PROJECT No: 17-002277.4
 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
- 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

PLEASE REFER TO WOLTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B 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.

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.

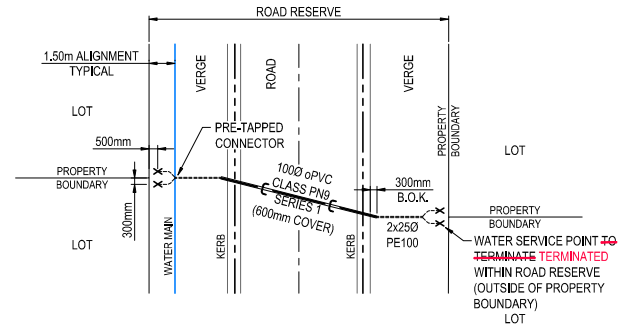
* The original issue or last amendment of this drawing contained the original signature.

WATER RETICULATION NOTES

1. 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 WS403-2011 V3.1.
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 MATERIAL USED IN THE WORKS **SHALL COMPLY COMPLIED** WITH THE SEQ-SP's.
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 WAS NOT** PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
10. ALL WORK ON EXISTING WATER MAINS **TO BE WERE** CARRIED OUT BY UNITYWATER AT THE DEVELOPERS EXPENSE.

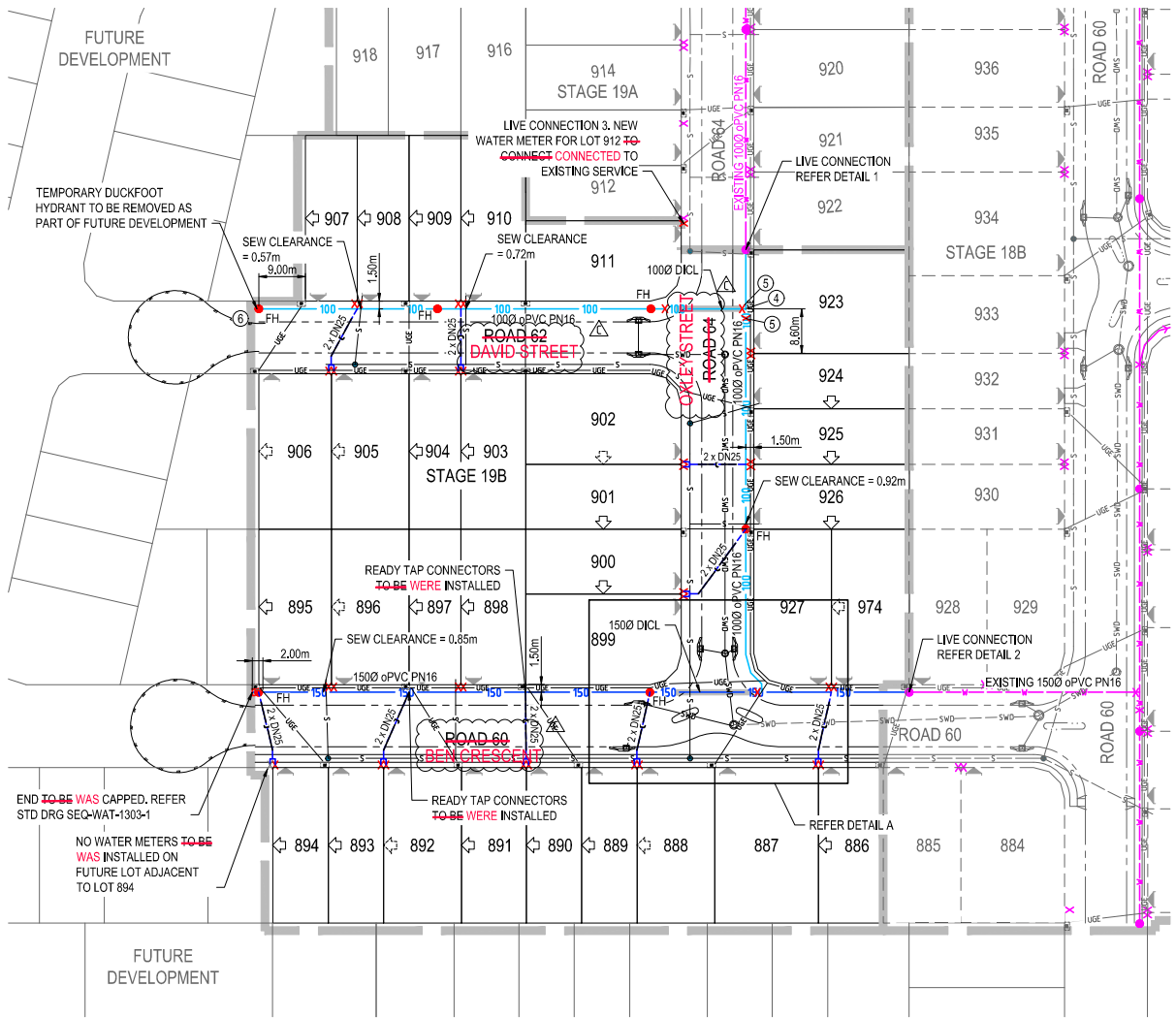
ENVIRONMENTAL MANAGEMENT APPROVAL NOTES

- 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 WERE** SEVERED, THE DAMAGED AREA **SHOULD BE WAS** TREATED WITH A SUITABLE FUNGICIDE. **CONTACT CONTACTED** 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 WAS** STOCKPILED SEPARATELY.
 - B. 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**
- 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.



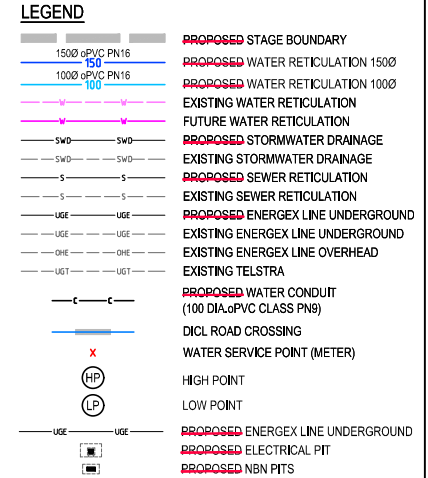
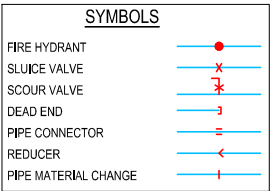
TYPICAL WATER SERVICE AND CONDUIT DETAIL
(REFER S.E.Q. (UNITYWATER) STD. DRG. WAT-1108-1 TO 1108-3)
SCALE: N.T.S.

| | | | | | | | | | | | | | |
|-----------------|-------------|-------------------------|--------------|---------------|--------------------|--|--------------|---|----------------|--|---|--------------------|---------------|
| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS | SCALE | CLIENT | PROJECT | DRAWING TITLE | | | |
| A | 24/01/20 | ISSUED FOR CONSTRUCTION | GT | CR | | AS CONSTRUCTED | | PEET CAROOLTURE SYNDICATE LTD | | RIVERBANK ESTATE STAGE 19B | WATER RETICULATION COVER SHEET | | |
| B | 08/05/20 | AS CONSTRUCTED | EG | CR | | | | | | | | | |
| | | | | | | APPROVED: DANIEL COLLINS RPEQ 18631 DANIEL COLLINS | | | | | | | |
| | | | | | | FOR & ON BEHALF OF CALIBRE CONSULTING (OLD) PTY LTD | | | | | UW REF NO. 2017011039s19B | | |
| | | | | | | | | | | OBS/CHECKER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. | PROJECT NO. 17-002277.4 | DRAWING NO. 600 | REVISION B |



PLEASE REFER TO WALTER CONSULTING GROUP AS CONSTRUCTED PROJECT FOR STAGE 19B FINAL CONSTRUCTED INFORMATION.

AS CONSTRUCTED DETAILS
 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

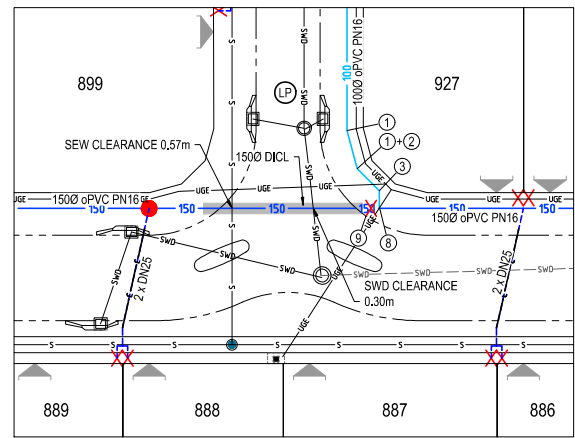
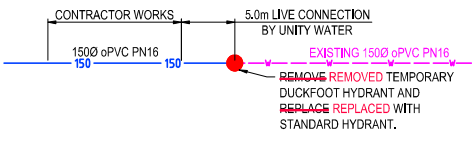
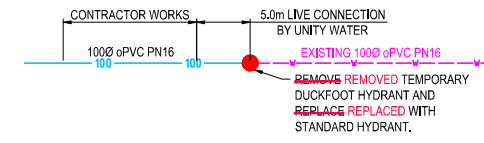


CAUTION !! UNDERGROUND ELECTRICAL CABLES
 UNDERGROUND ELECTRICITY CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

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 DUCKFOOT HYDRANT |
| 8 | 1500 x 1000 TEE AND THRUST BLOCK |
| 9 | 1500 SLUICE VALVE |
| 10 | 1500 DUCKFOOT HYDRANT |

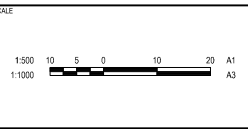


* The original issue or last amendment of this drawing contained the original signature.

| REVISION | DATE | ISSUE DETAILS | DRAWN | DESIGN | DRAWN CHECK | STATUS |
|----------|----------|-------------------------------------|-------|--------|-------------|--------|
| A | 24.01.20 | ISSUED FOR CONSTRUCTION | GT | CR | | |
| B | 13.02.20 | WATER CROSSING AND FITTINGS UPDATED | CR | CR | | |
| C | 08.05.20 | AS CONSTRUCTED | EG | CR | | |

AS CONSTRUCTED

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



PEET
 CAROOLTURE SYNDICATE LTD

calbre
 callbregroup.com

RIVERBANK ESTATE STAGE 19B

CLIENT: RIVERBANK ESTATE
 PROJECT: RIVERBANK ESTATE STAGE 19B

WATER RETICULATION LAYOUT PLAN

UW REF No. 2017011039s19B

PROJECT No. 17-002277.4
 DRAWING No. 601
 REVISION C