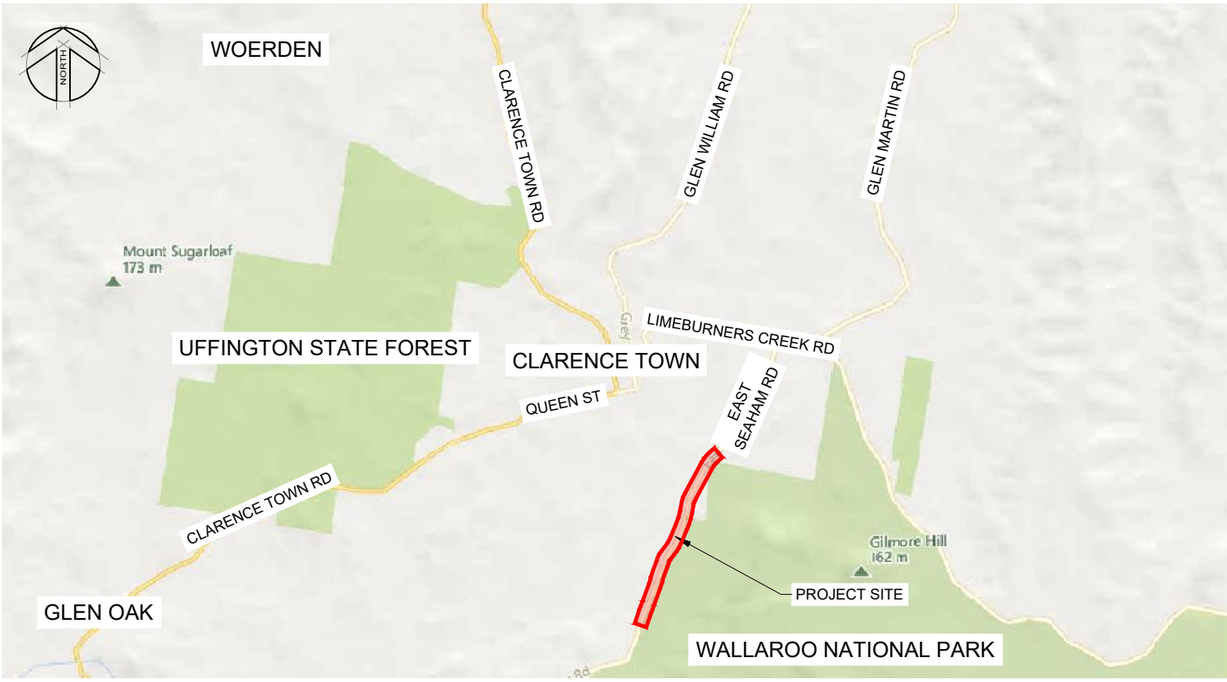
PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM

STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

ISSUED FOR APPROVAL

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS



LOCALITY
NOT TO SCALE

Prepared for: PORT STEPHENS COUNCIL

PORT STEPHENS COUNCIL — ISSUED FOR APPROVAL

DISTRIBUTION	NAME	SIGNATURE	TITLE	DATE
DRAFTING & DESIGN CHECK	STEVEN STARTIN	S. J. Startin	CIVIL DESIGN TEAM LEADER	08.01.2025
	CONOR BYRNE	[redacted]	PROGRAM MANAGER CIVIL INFRASTRUCTURE	19/02/2025
DESIGN VERIFICATION	RICK MACKENZIE	[redacted]	CIVIL PROJECTS COORDINATOR	19/02/2025
APPROVAL	JOHN MARETICH	[redacted]	ASSETS SECTION MANAGER	

Revision E
Date 03/01/2025
Project No. 240458-01

SUSTAINABLE CERTIFICATION — AS/NZS4801 Endorsed OHS Management System
SUSTAINABLE CERTIFICATION — ISO 9001 Endorsed Quality Management System
SUSTAINABLE CERTIFICATION — ISO 14001 Endorsed Environmental Management System

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BARKER RYAN STEWART
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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
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DRAWING INDEX

Designed: BF
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Plan No. 240458-01-002
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REV. E

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GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S INFRASTRUCTURE SPECIFICATIONS AND DETAILS .
2. SURVEY MARKS SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE ENGINEER SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
3. ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
4. THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN OR ON ADJACENT LANDS WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT AND THE WRITTEN PERMISSION OF THE OWNERS.
5. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
6. IF, DURING THE COURSE OF ANY WORKS, ANY EVIDENCE OF AN ABORIGINAL ARCHAEOLOGICAL SITE OR RELIC IS FOUND, ALL WORKS ON THE SITE ARE TO CEASE AND THE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE AND THE NSW HERITAGE BRANCH ARE TO BE NOTIFIED IMMEDIATELY.
7. IF, DURING THE COURSE OF ANY WORKS, ANY EVIDENCE OF A EUROPEAN ARCHAEOLOGICAL SITE OR RELIC IS FOUND, ALL WORKS ON THE SITE ARE TO CEASE AND THE NSW HERITAGE BRANCH CONTACTED IMMEDIATELY. ALL RELICS ARE TO BE RETAINED IN SITU UNLESS OTHERWISE DIRECTED BY THE NSW HERITAGE BRANCH.
8. ANY NEW INFORMATION, WHICH COMES TO LIGHT DURING CONSTRUCTION WORKS, WHICH HAS THE POTENTIAL TO ALTER PREVIOUS CONCLUSIONS ABOUT SITE CONTAMINATION, SHALL BE IMMEDIATELY NOTIFIED TO COUNCIL.
9. SEDIMENT MEASURES SHALL BE IMPLEMENTED PRIOR TO SOIL DISTURBANCE IN KEEPING WITH THE 4th EDITION OF LANDCOMS "SOILS AND CONSTRUCTION - MANAGING URBAN STORMWATER" MARCH 2004 TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE AND AS SHOWN IN THESE DRAWINGS.
10. THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT ARE CONDEMNED BY THE PLANS. COUNCIL'S TREE PRESERVATION ORDER SHALL BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL OF COUNCIL.

EARTHWORKS NOTES

1. CARE IS TO BE TAKEN DURING THE CONSTRUCTION OF THE PROPOSED WORKS TO ENSURE NATURAL VEGETATION AND TOPOGRAPHY ON THE SUBJECT SITE IS NOT UNNECESSARILY DISTURBED. ANY EXCAVATION MATERIAL NOT USED IN THE CONSTRUCTION OF THE SUBJECT WORKS IS TO BE REMOVED FROM THE SITE AND UNDER NO CIRCUMSTANCES IS TO BE DEPOSITED IN BUSHLAND AREAS.
2. ALL SITE REGRADING AREAS SHALL BE GRADED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE LEVELS ON THE EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING ANY FILL OPERATIONS.
3. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED OR DISPOSED OF IN ACCORDANCE WITH THE CONTRACT, OR AS DIRECTED BY THE SUPERINTENDENT.
4. ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING COUNCILS AND GEOTECH REQUIREMENTS. FILL IS TO BE COMPACTED IN ACCORDANCE WITH GEOTECH SPECIFICATIONS AND BE TESTED AT THE REQUIRED INTERVALS BY AN APPROVED N.A.T.A. GEOTECHNICAL LABORATORY.
5. THE DISPOSAL / LANDFILL OF SURPLUS EXCAVATED MATERIAL, OTHER THAN TO A DECC LICENSED FACILITY, IS NOT PERMITTED WITHOUT FORMAL APPROVAL FROM COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS. ANY UNAUTHORIZED DISPOSAL OF WASTE, WHICH INCLUDES EXCAVATED MATERIAL, IS A BREACH OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997 AND SUBJECT TO SUBSTANTIAL PENALTIES. UNLESS COUNCIL APPROVES AN ALTERNATIVE SITE, THEN ALL SURPLUS MATERIAL MUST BE DISPOSED OF AT A LICENSED WASTE FACILITY. COPIES OF ACTUAL WEIGHBRIDGE RECEIPTS VERIFYING RECYCLING / DISPOSAL MUST BE KEPT AND PRESENTED TO COUNCIL WHEN REQUIRED.

SERVICE NOTES

1. BARKER RYAN STEWART DOES NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE SERVICE INFORMATION SHOWN.
2. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
3. CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES, NO MECHANICAL EXCAVATION SHALL BE MADE OVER TELSTRA OR ELECTRICAL SERVICES, EXCAVATE BY HAND ONLY IN THESE AREAS.

DRAINAGE NOTES

1. TRENCH WIDTHS ARE TO BE KEPT TO A MINIMUM, CONSISTENT WITH LAYING AND BEDDING OF THE RELEVANT SERVICE AND CONSTRUCTION PERSONNEL ACCESS WAYS AND PITS. REFER TO AUTHORITIES STANDARDS FOR MINIMUM TRENCH WIDTHS. STANDARD TRENCH WIDTHS AND THE DIMENSIONS OF UNSUPPORTED TRENCHES. SUPPORT EXCAVATIONS TO THE REQUIREMENTS OF THE CONSTRUCTION SAFETY REGULATIONS 1950, UNDER THE CONSTRUCTION SAFETY ACT 1912 (AS AMENDED)
2. BACKFILL TRENCHES IN ACCORDANCE WITH COUNCIL REQUIREMENTS WITHOUT DELAY FOR THE SECTION OF PIPE THAT HAS BEEN COMPLETED AND APPROVED, IF POSSIBLE ON THE SAME WORKING DAY.
3. ROCK SCOUR PROTECTION TO AS2758.4.

STRUCTURAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
2. CONCRETE QUALITY SHALL BE AS SPECIFIED AND SHALL BE VERIFIED BY TESTS.
3. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL HAVE A SLUMP OF 80mm AT POINT OF PLACEMENT, A MAXIMUM AGGREGATE SIZE OF 20mm AND STRENGTH AS SPECIFIED. NO WATER SHALL BE ADDED TO THE MIX PRIOR TO OR DURING THE PLACEMENT.
4. ALL REINFORCEMENT SPECIFIED IS GRADE D500 UNLESS NOTED OTHERWISE.
5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
6. TOP REINFORCEMENT IS TO BE CONTINUOUS ON SUPPORTS. BOTTOM REINFORCEMENT TO BE LAPPED AT SUPPORTS.
7. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON STRUCTURAL DRAWINGS.
8. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE ZONE OF CONCRETE COVER TO THE REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
9. ALL REINFORCING BARS AND FABRIC SHALL COMPLY WITH AS4671.
10. REINFORCEMENT SYMBOLS:
    - 10.1. N - GRADE 500N DEFORMED BAR (D500) NORMAL DUCTILITY
    - 10.2. R - GRADE 250N PLAIN ROUND BAR (R250) NORMAL DUCTILITY
    - 10.3. SL - GRADE 500L WELDED DEFORMED RIBBED MESH (D500) RECTANGULAR LOW DUCTILITY

    THE NUMBER IMMEDIATELY FOLLOWING THESE SYMBOLS IS THE NUMBER OF MILLIMETERS IN THE BAR DIAMETER.

    EXAMPLE:
    8 N12-250, DENOTES 8, GRADE 500N DEFORMED BARS, 12mm DIAMETER AT 250 CTS.
11. FABRIC REINFORCEMENT TO BE LAPPED 1 COMPLETE SQUARE + 25mm UNLESS NOTED OTHERWISE.
12. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON BAR CHAIRS SPACED AT A MAXIMUM OF 750mm CENTRES BOTH WAYS UNDER THE ROD AND FABRIC REINFORCEMENT. REINFORCEMENT SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
DRAINAGE LINE		
CONTOUR		
SUBSOIL	SS	SS
150mm KERB & GUTTER		K&G
DISH DRAIN		DD
ROAD PAVEMENT		
TREE TO BE RETAINED		
TREE TO BE REMOVED		
BATTERS		
LIMIT OF WORKS		LIMIT OF CONSTRUCTION
OVERHEAD ELECTRICAL	EOH EOH	
COMMUNICATIONS	COM-B	
COMMUNICATIONS - DBYD	COM-D	
FENCE	/ / /	
SAFETY GUARDRAIL		

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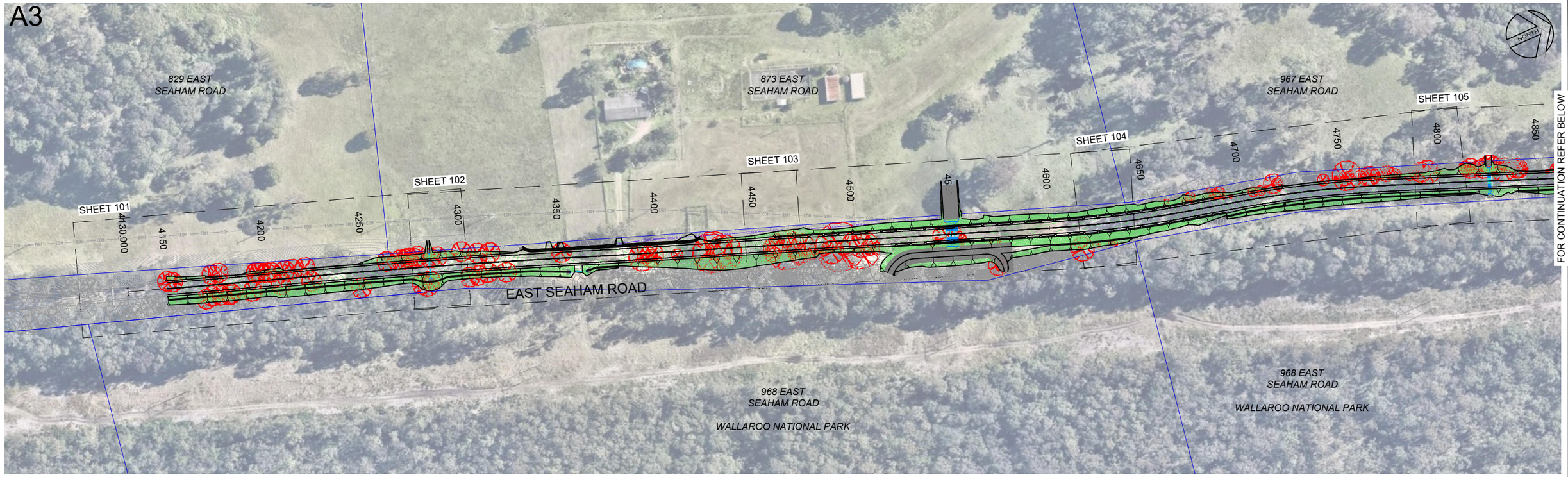

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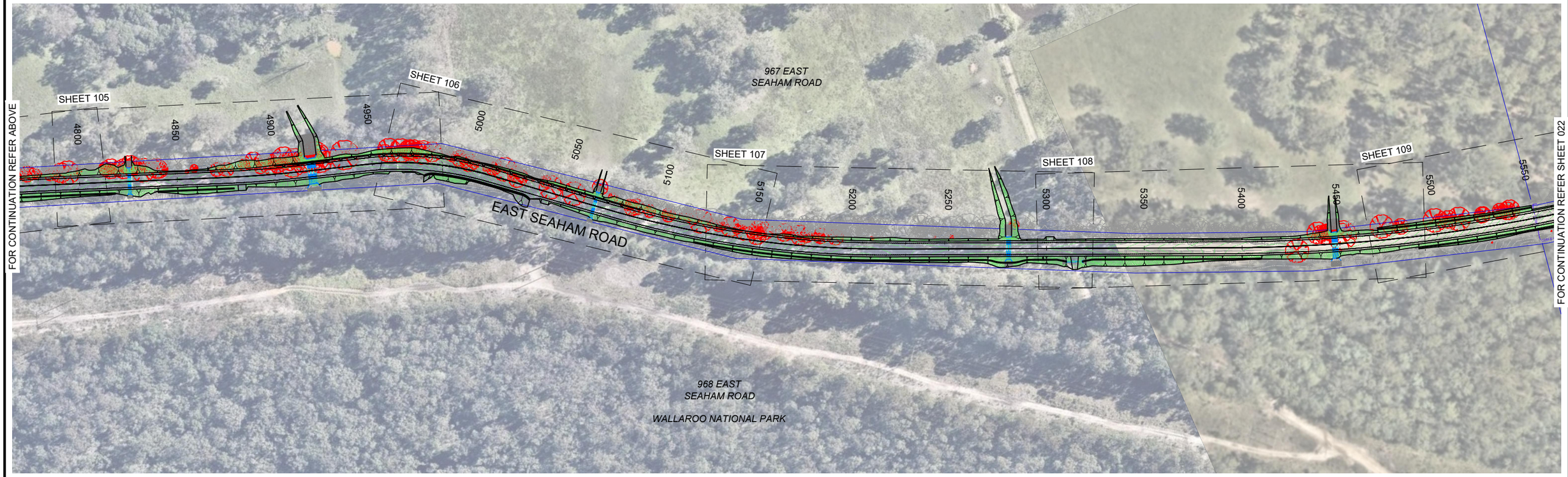

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GENERAL ARRANGEMENT PLAN SHEET 1

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Datum: A.H.D.

Plan No.
240458-01-021

File Ref.
240458

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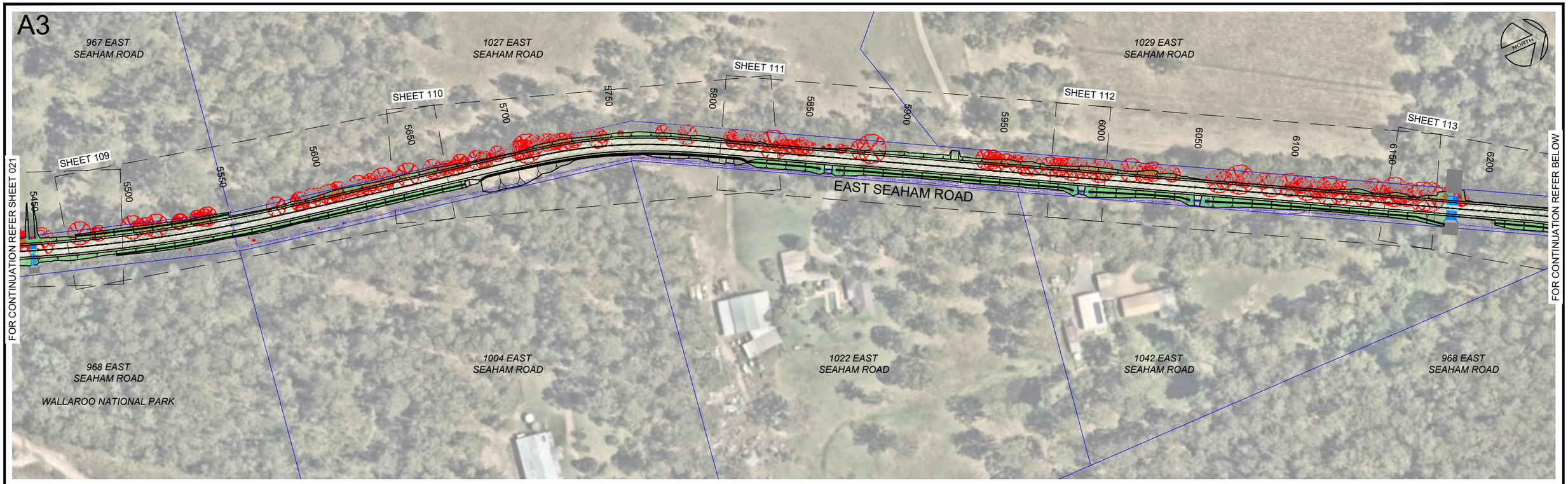

PLAN
SCALE 1:2000

PLAN
SCALE 1:2000

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METRES
1:2000

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EAST SEAHAM ROAD, EAST SEAHAM
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GENERAL ARRANGEMENT PLAN SHEET 2

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Plan No. 240458-01-022
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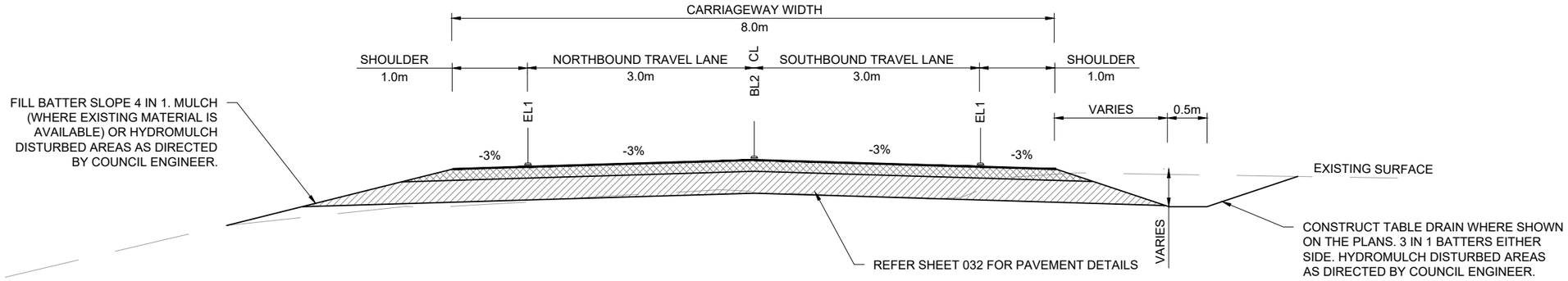
A3



EAST SEAHAM ROAD - TYPICAL SECTION
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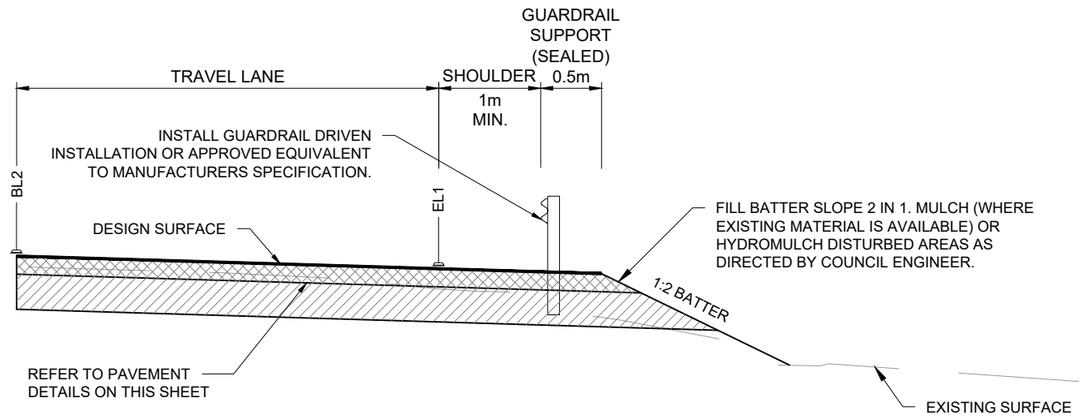

GUARDRAIL TYPICAL SECTION
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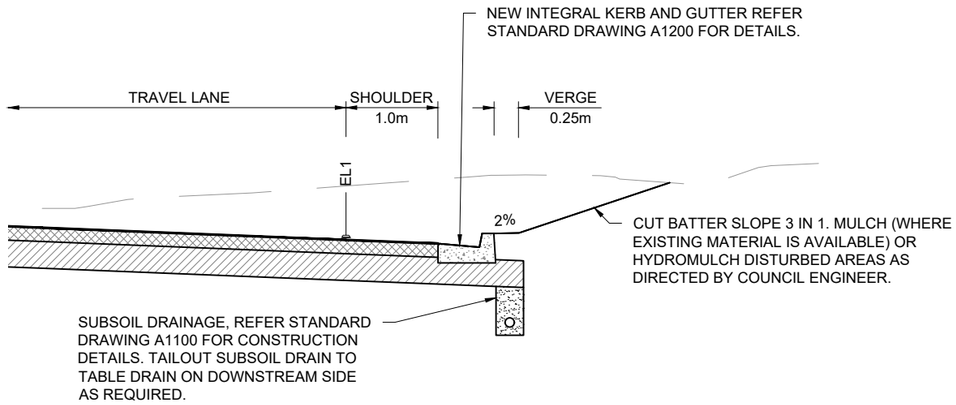

KERB AND GUTTER - TYPICAL SECTION
N.T.S.

NOTES:

1. REFER TO HUNTER CIVILAB "REPORT ON PAVEMENT INVESTIGATION & DESIGN EAST SEAHAM ROAD, STAGE 6 EAST SEAHAM". HUNTER CIVILAB REF No: G0558-PID-001-REV0 DATED JUNE 2024.
2. IF UNSUITABLE SUBGRADE IS ENCOUNTERED REMOVE AND REPLACE WITH SELECT MATERIAL AS SPECIFIED IN THE ABOVE GEOTECHNICAL REPORT.
3. REFER TO SHEET 032 FOR PAVEMENT DETAILS.

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TYPICAL SECTION AND DETAILS SHEET 1

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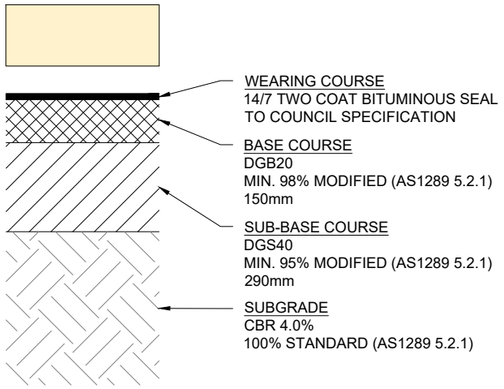
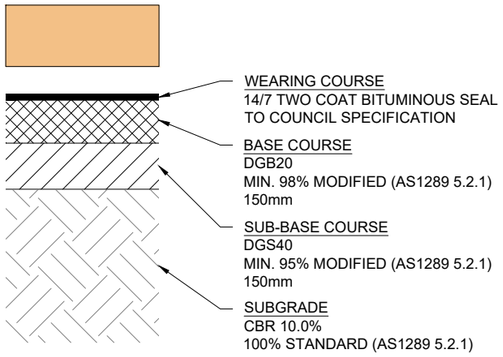
A3

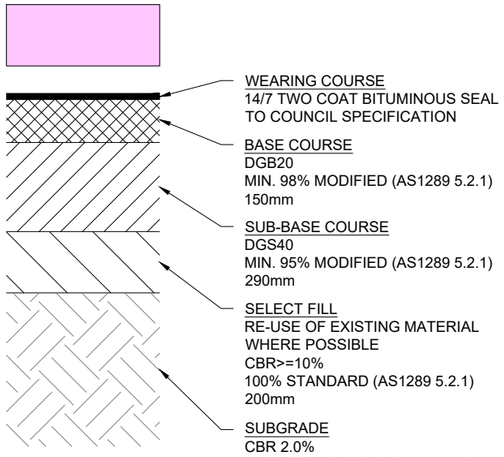
PAVEMENT TYPE P1
FLEXIBLE RECONSTRUCTION
4% CBR SUBGRADE



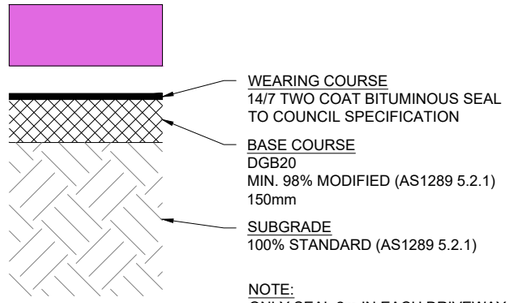
PAVEMENT TYPE P2
FLEXIBLE RECONSTRUCTION
10% CBR SUBGRADE



PAVEMENT TYPE P3
FLEXIBLE RECONSTRUCTION
CLAY SUBGRADE



PAVEMENT TYPE P4
DRIVEWAY/TEMPORARY
PAVEMENT RECONSTRUCTION

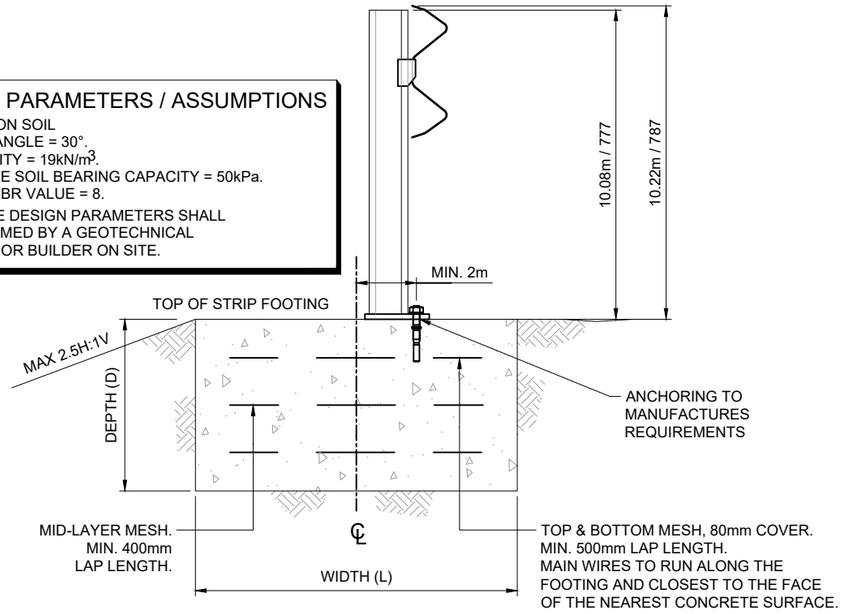


NOTE:
ONLY SEAL 2m IN EACH DRIVEWAY.

DESIGN PARAMETERS / ASSUMPTIONS

FOUNDATION SOIL
FRICTION ANGLE = 30°.
SOIL DENSITY = 19kN/m^3.
ALLOWABLE SOIL BEARING CAPACITY = 50kPa.
MINIMUM CBR VALUE = 8.

THE ABOVE DESIGN PARAMETERS SHALL BE CONFIRMED BY A GEOTECHNICAL ENGINEER OR BUILDER ON SITE.



SAFETY BARRIER STRIP FOOTING DETAIL
N.T.S.

OPTION 1 - STRIP FOOTING SPECIFICATIONS				
D MIN. DEPTH (mm)	L MIN. WIDTH (mm)	B MIN. LENGTH OF FOOTING (mm)	REINFORCEMENT	
			(TOP & BOTTOM)	(MID-LAYER)
250	950	19000	RL918 MESH [MIN. (8) LONGITUDINAL WIRES PER LAYER]	-
350	800	19000	RL1118 MESH [MIN. (7) LONGITUDINAL WIRES PER LAYER]	SL82 MESH [MIN. (4) LONGITUDINAL WIRES]
400	750	19000	RL1118 MESH [MIN. (6) LONGITUDINAL WIRES PER LAYER]	SL92 MESH [MIN. (3) LONGITUDINAL WIRES]
350	1100	11000	RL1118 MESH [MIN. (10) LONGITUDINAL WIRES PER LAYER]	SL82 MESH [MIN. (5) LONGITUDINAL WIRES]
250	1250	11000	RL918 MESH [MIN. (11) LONGITUDINAL WIRES PER LAYER]	-

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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

TYPICAL SECTION AND DETAILS SHEET 2

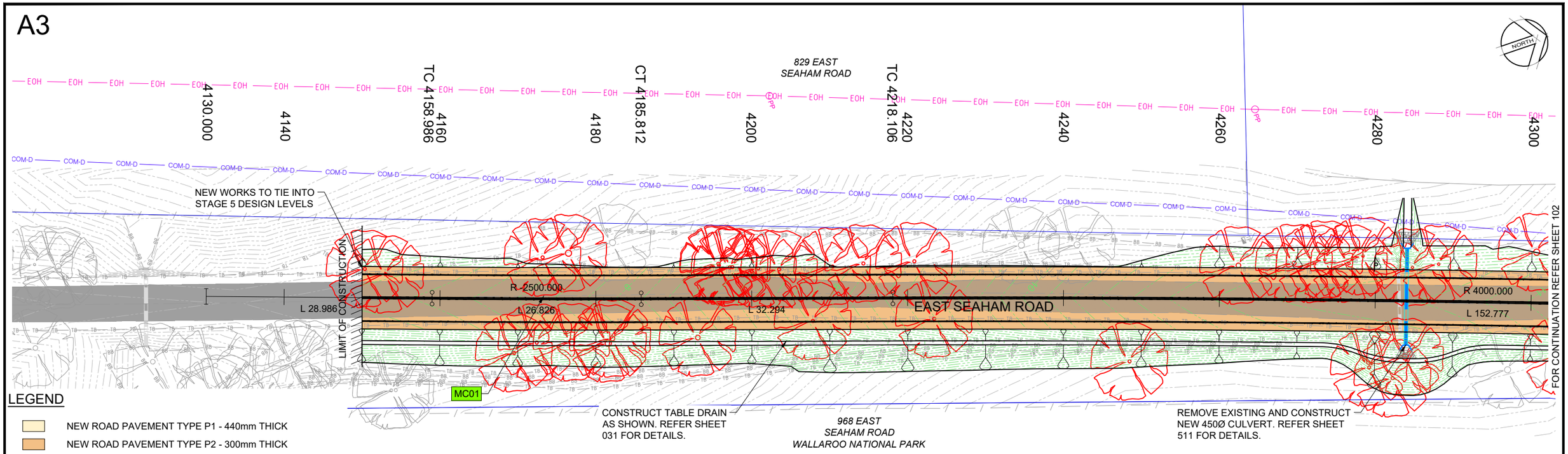
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-032
File Ref. 240458
REV. E

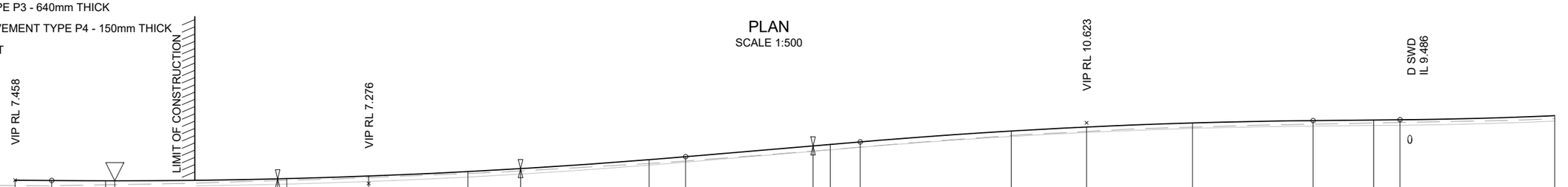
A3



LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT

PLAN
SCALE 1:500



HORIZONTAL CURVES: L28.99; R-2500 L26.83; L32.29; R4000 L152.78

VERTICAL CURVES: L4.03; K14.93 L70; L19.27; K13.36 L50; L9.6; K10.13 L40

VERTICAL GRADES: -0.5% L39.03; 4.2% L79.27; 0.5% L54.6

DATUM RL -2.000

DESIGN	7.458	7.439	7.423	7.423	7.531	7.544	7.686	7.932	8.095	8.589	8.753	9.348	9.428	9.567	10.168	10.389	10.612	10.743	10.775	10.789	11.015
SURVEY	7.160	7.151	7.203	7.212	7.439	7.453	7.602	7.829	7.967	8.379	8.518	9.064	9.143	9.282	9.919	10.146	10.384	10.547	10.611	10.638	10.851
CUT / FILL	0.298	0.288	0.220	0.211	0.092	0.091	0.084	0.103	0.128	0.210	0.236	0.283	0.285	0.285	0.249	0.243	0.228	0.195	0.164	0.150	0.164
CHAINAGE	4130	4134.034	4140	4141.005	4158.986	4160	4169.034	4180	4185.812	4200	4204.034	4218.106	4220	4223.307	4240	4248.307	4260	4273.307	4280	4282.912	4300
SUPER ELEVATION	LHS and RHS -3%																				

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
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ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

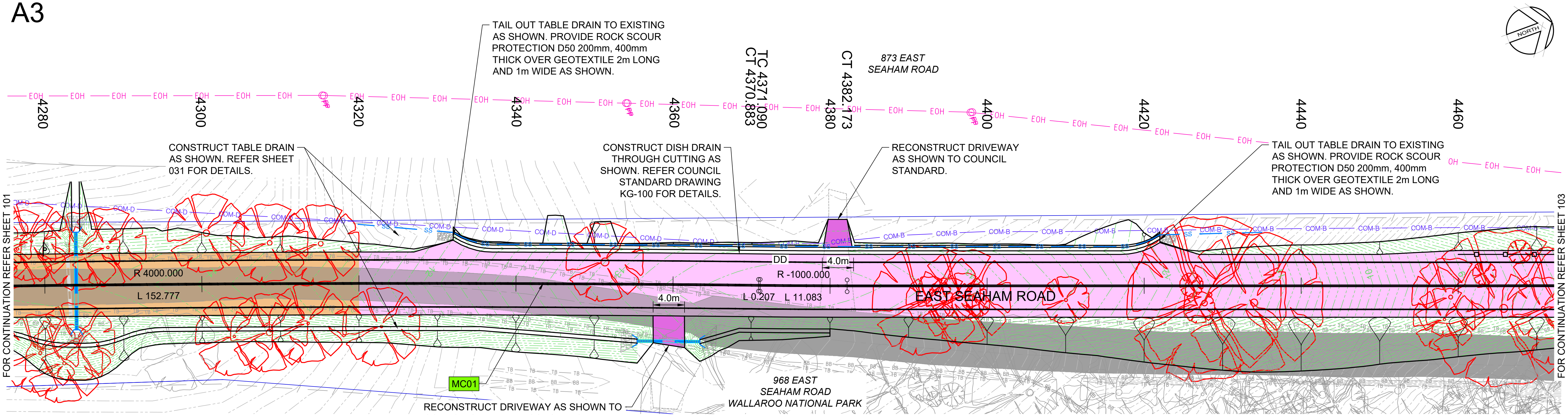
DETAIL PLAN AND LONGITUDINAL SECTION SHEET 1

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-101
File Ref. 240458
REV. E

A3



TAIL OUT TABLE DRAIN TO EXISTING AS SHOWN. PROVIDE ROCK SCOUR PROTECTION D50 200mm, 400mm THICK OVER GEOTEXTILE 2m LONG AND 1m WIDE AS SHOWN.

CONSTRUCT TABLE DRAIN AS SHOWN. REFER SHEET 031 FOR DETAILS.

CONSTRUCT DISH DRAIN THROUGH CUTTING AS SHOWN. REFER COUNCIL STANDARD DRAWING KG-100 FOR DETAILS.

RECONSTRUCT DRIVEWAY AS SHOWN TO COUNCIL STANDARD.

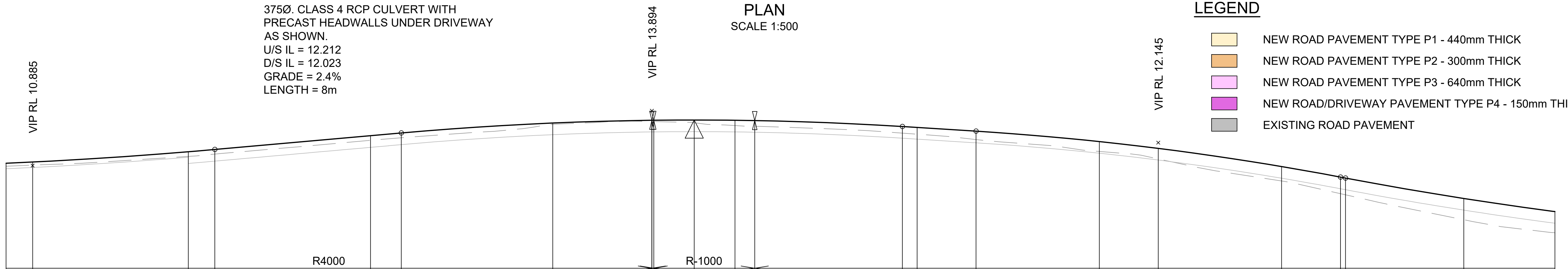
TAIL OUT TABLE DRAIN TO EXISTING AS SHOWN. PROVIDE ROCK SCOUR PROTECTION D50 200mm, 400mm THICK OVER GEOTEXTILE 2m LONG AND 1m WIDE AS SHOWN.

RECONSTRUCT DRIVEWAY AS SHOWN TO COUNCIL STANDARD. CONSTRUCT NEW 375Ø. CLASS 4 RCP CULVERT WITH PRECAST HEADWALLS UNDER DRIVEWAY AS SHOWN.
U/S IL = 12.212
D/S IL = 12.023
GRADE = 2.4%
LENGTH = 8m

PLAN
SCALE 1:500

LEGEND

▭	NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
▨	NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
▨	NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
▨	NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
▨	EXISTING ROAD PAVEMENT



HORIZONTAL CURVES: R4000 L152.78; L0.21; R-1000 L11.08

VERTICAL CURVES: K10.13 L40; L20.47; K7.26 L55; L8.08; K6.34 L40; L0.55; K7.97 L65

VERTICAL GRADES: 0.5% L54.6; 4.4% L67.97; -3.1% L55.58; -9.5% L53.05

DATUM RL -1.000

CHAINAGE	DESIGN	SURVEY	CUT / FILL
4300	11.015	10.851	0.164
4302.912	11.082	10.911	0.171
4320	11.645	11.390	0.255
4322.912	11.770	11.516	0.254
4340	12.527	12.273	0.254
4343.379	12.676	12.414	0.263
4360	13.222	13.154	0.068
4370.879	13.373	13.304	0.069
4370.883	13.373	13.304	0.069
4371.09	13.374	13.302	0.073
4375.532	13.388	13.235	0.153
4380	13.374	13.082	0.292
4382.173	13.358	13.040	0.317
4398.379	13.029	12.669	0.360
4400	12.978	12.610	0.367
4406.462	12.774	12.313	0.461
4420	12.204	11.662	0.542
4426.462	11.830	11.251	0.579
4440	10.833	10.043	0.790
4446.462	10.255	9.344	0.911
4447.015	10.202	9.281	0.921
4460	9.081	7.913	1.167
4470	8.361	7.201	1.160

SUPER ELEVATION: LHS and RHS -3%

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER
RYAN
STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION

SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255
HUNTER
P: 02 4966 8388
ABN: 26 134 067 842
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Client:
PORT STEPHENS
COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 2

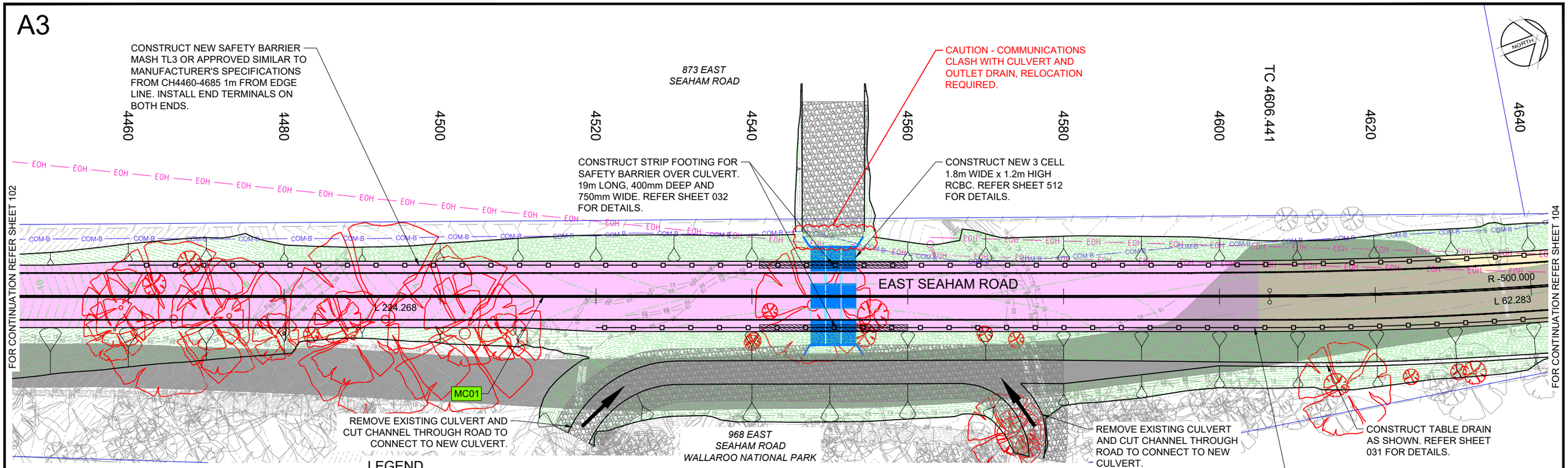
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. 1:500
Vert. 1:250
X-Sect. -

Datum: A.H.D.

Plan No.
240458-01-102
File Ref.
240458
REV.
E

A3

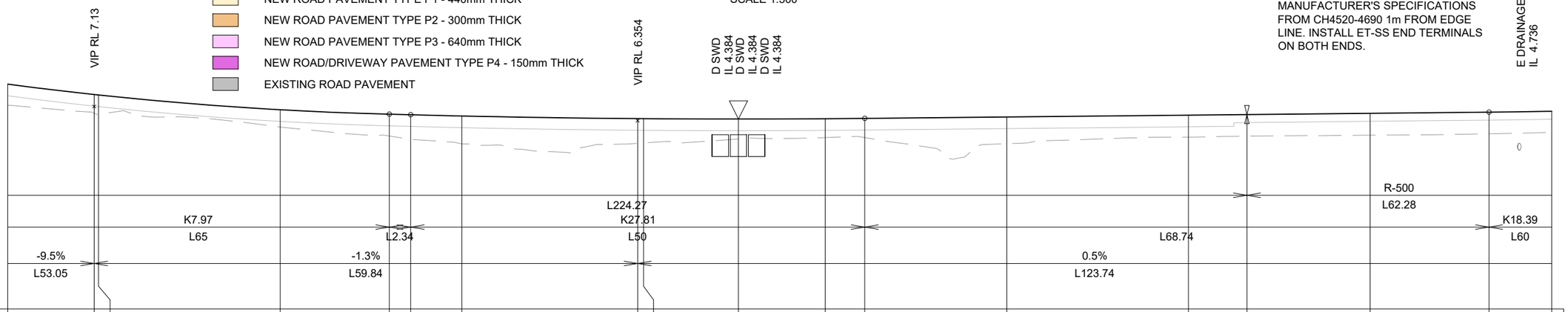


PLAN

SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT



MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM

STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 3

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -

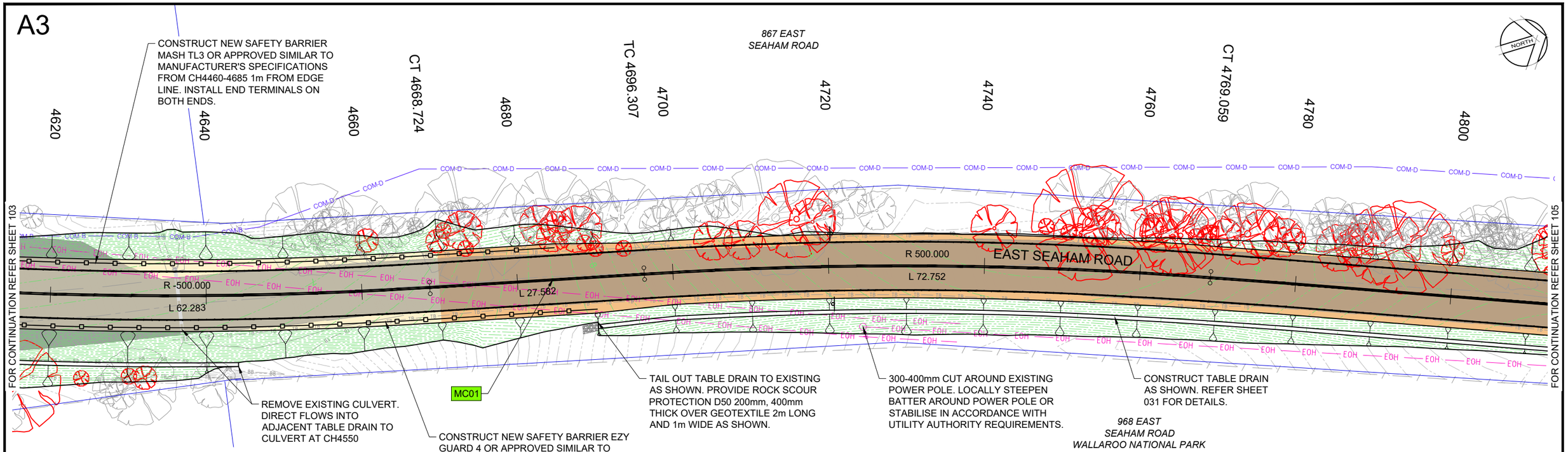
Datum: A.H.D.

Plan No. 240458-01-103

File Ref. 240458

REV. E

A3

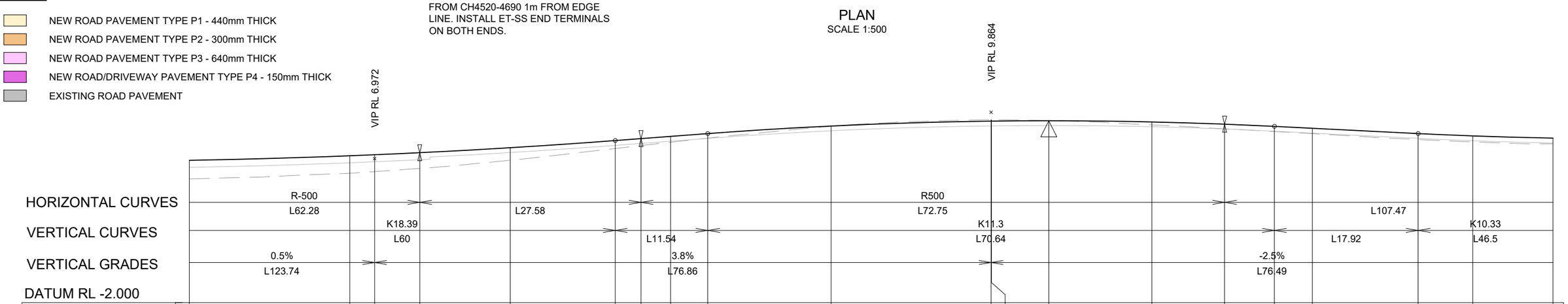


LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT

PLAN

SCALE 1:500



MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 4

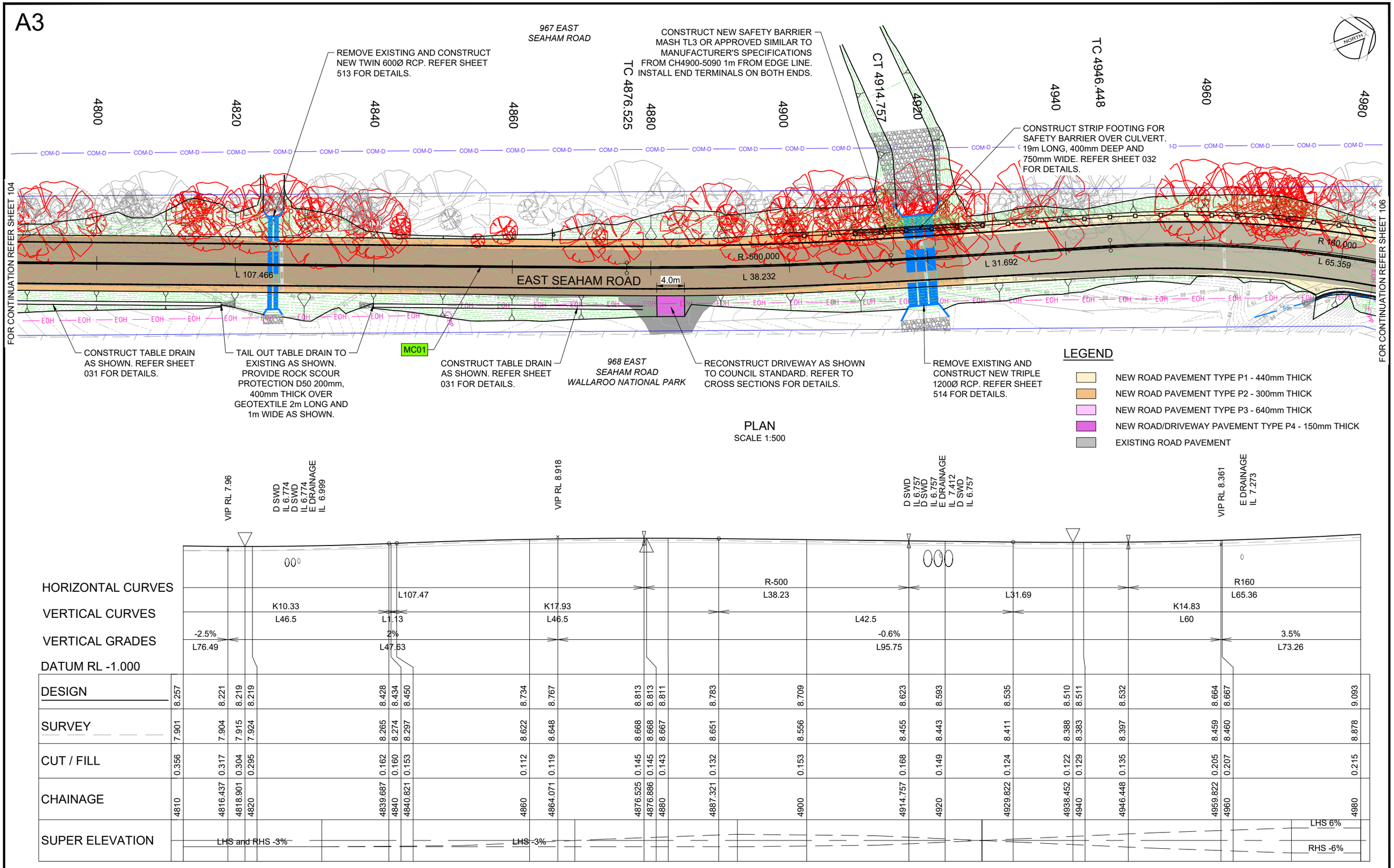
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. 1:500
Vert. 1:250
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-104
File Ref. 240458
REV. E

A3



MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

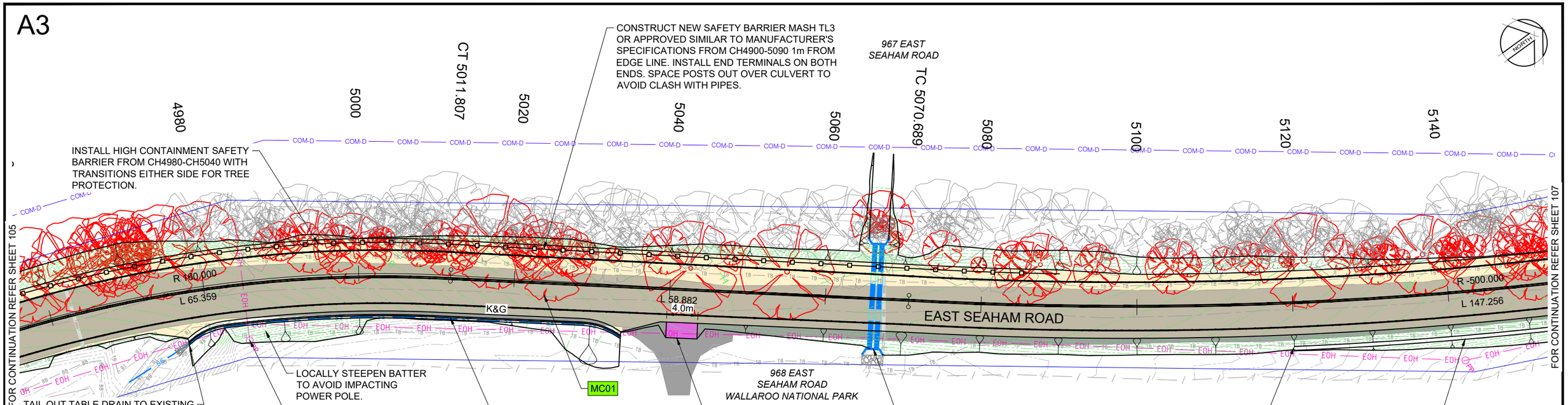
DETAIL PLAN AND LONGITUDINAL SECTION SHEET 5

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-105
File Ref. 240458
REV. E

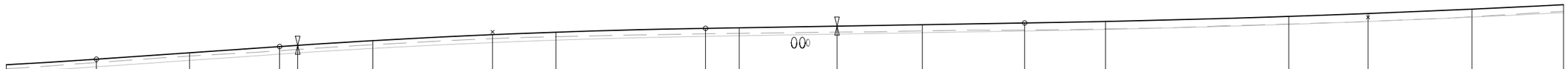
A3



PLAN
SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT



HORIZONTAL CURVES			R160														R-500					
			L65.36							L58.88							L147.26					
VERTICAL CURVES		K14.83						K17.7								K33.76						
		L60		L20.01				L46.5						L34.83		L75						
VERTICAL GRADES					3.5%										0.8%						3.1%	
					L73.26										L95.58						L62.98	
DATUM RL 1.000																						
DESIGN	9.093	9.400	9.753	10.094	10.161	10.417	10.747	10.882	11.094	11.125	11.214	11.293	11.386	11.472	11.751	11.909	12.149	12.392				
SURVEY	8.878	9.215	9.573	9.865	9.933	10.192	10.527	10.635	10.795	10.818	10.886	10.955	11.003	11.064	11.332	11.473	11.732	12.025				
CUT / FILL	0.215	0.185	0.181	0.229	0.228	0.224	0.219	0.247	0.299	0.306	0.328	0.338	0.383	0.408	0.419	0.436	0.417	0.367				
CHAINAGE	4980	4989.822	5000	5009.828	5011.807	5020	5033.078	5040	5056.328	5060	5070.689	5080	5091.156	5100	5120	5128.656	5140	5150				
SUPER ELEVATION		LHS 6%													RHS 3%							
		RHS -6%													LHS -3%							

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
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BARKER RYAN STEWART
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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 6

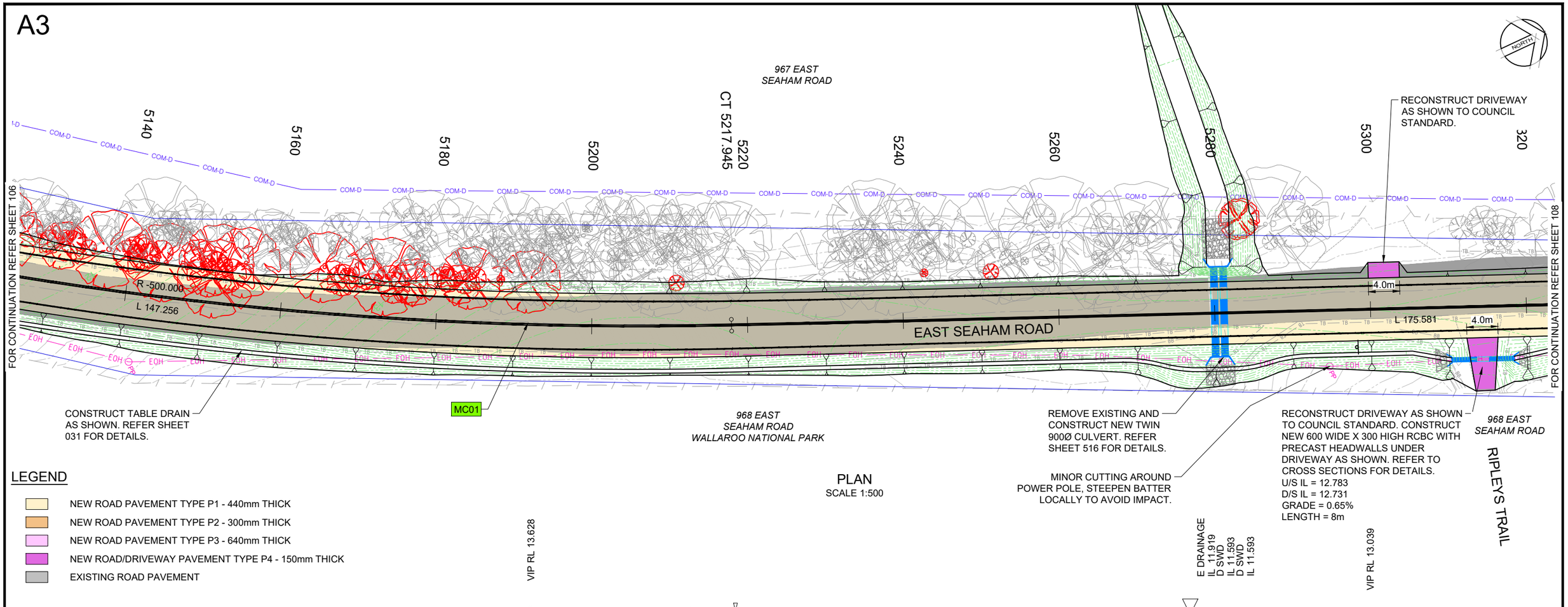
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-106
File Ref. 240458
REV. E

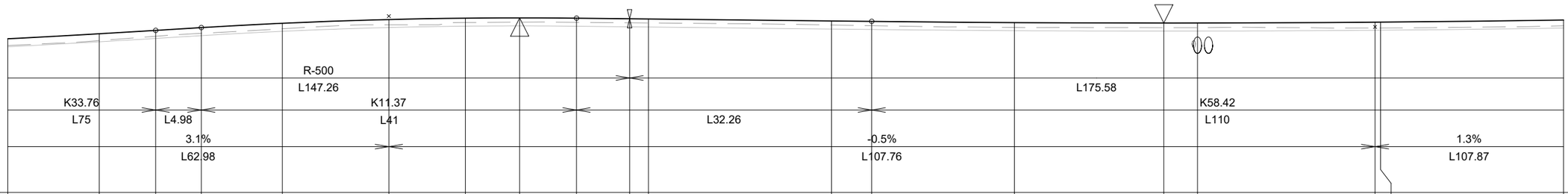
A3



PLAN
SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT



HORIZONTAL CURVES						R-500 L147.26												L175.58						
VERTICAL CURVES		K33.76 L75		L4.98			K11.37 L41						L32.26						K58.42 L110					
VERTICAL GRADES				3.1% L62.98										-0.5% L107.76								1.3% L107.87		
DATUM RL 4.000																								
DESIGN	12.392	12.665	12.848	13.000	13.237	13.443	13.517	13.533	13.516	13.484	13.473	13.364	13.340	13.275	13.252	13.253	13.298	13.300	13.416					
SURVEY	12.025	12.293	12.531	12.688	12.939	13.155	13.281	13.299	13.288	13.265	13.258	13.142	13.106	13.010	12.997	12.996	12.981	12.982	13.102					
CUT / FILL	0.367	0.372	0.317	0.313	0.298	0.288	0.236	0.233	0.227	0.219	0.215	0.221	0.233	0.266	0.255	0.257	0.316	0.318	0.313					
CHAINAGE	5150	5160	5166.156	5171.139	5180	5191.639	5200	5205.928	5212.139	5217.945	5220	5240	5244.401	5260	5276.315	5280	5299.401	5300	5320					
SUPER ELEVATION				RHS 3%				LHS -3%									LHS and RHS -3%							

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
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C	90% DETAILED DESIGN	AS	01/11/24
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E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

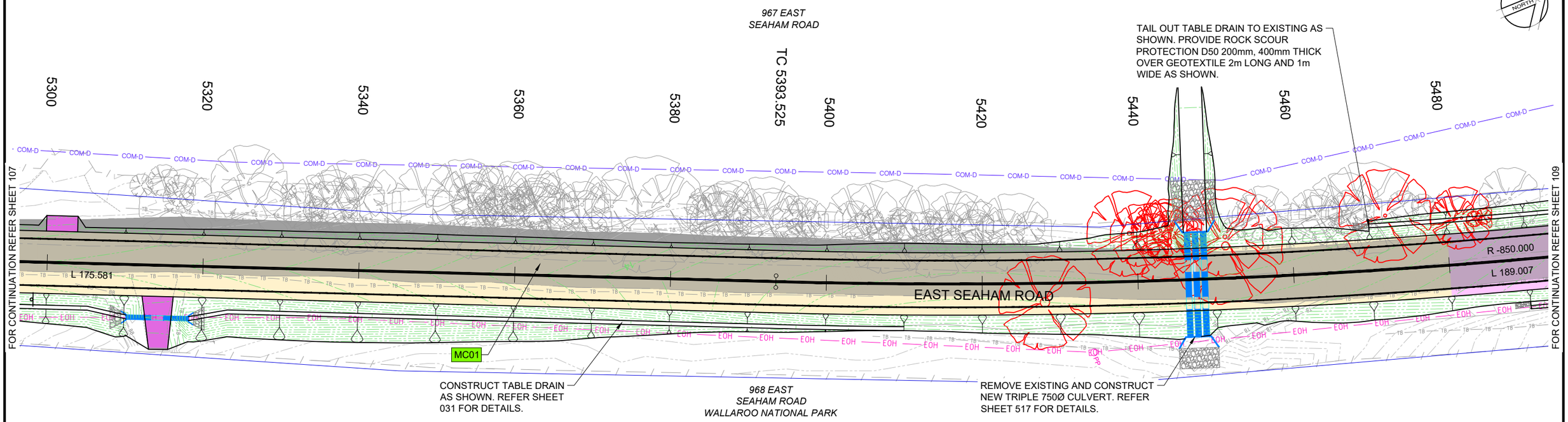
DETAIL PLAN AND LONGITUDINAL SECTION SHEET 7

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-107
File Ref. 240458
REV. E

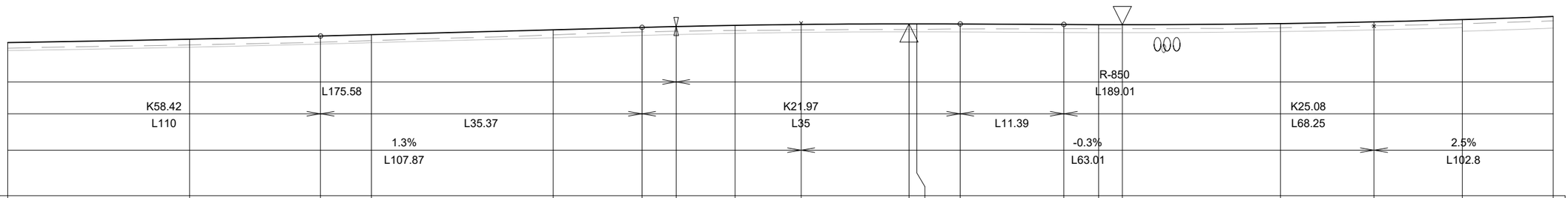
A3



PLAN
SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT



HORIZONTAL CURVES				L175.58												R-850 L189.01								
VERTICAL CURVES		K58.42 L110					L35.37					K21.97 L35			L11.39					K25.08 L68.25				
VERTICAL GRADES					1.3% L107.87												-0.3% L63.01						2.5% L102.8	
DATUM RL 5.000																								
DESIGN	13.416	13.599		13.774	13.849		14.116	14.247	14.294	14.360	14.411	14.443	14.443	14.436	14.407	14.400	14.399		14.459	14.551	14.677	14.847		
SURVEY	13.102	13.285		13.434	13.521		13.837	13.999	14.036	14.079	14.107	14.132	14.136	14.162	14.174	14.172	14.172		14.227	14.333	14.450	14.610		
CUT / FILL	0.313	0.314		0.341	0.328		0.280	0.248	0.258	0.281	0.304	0.312	0.307	0.274	0.232	0.228	0.227		0.232	0.218	0.228	0.237		
CHAINAGE	5320	5340		5354.401	5360		5380	5389.772	5393.525	5400	5407.272	5419.137	5420	5424.772	5436.163	5440	5442.595		5460	5470.286	5480	5490		
SUPER ELEVATION		LHS and RHS -3%												LHS -3%				RHS 3%						

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

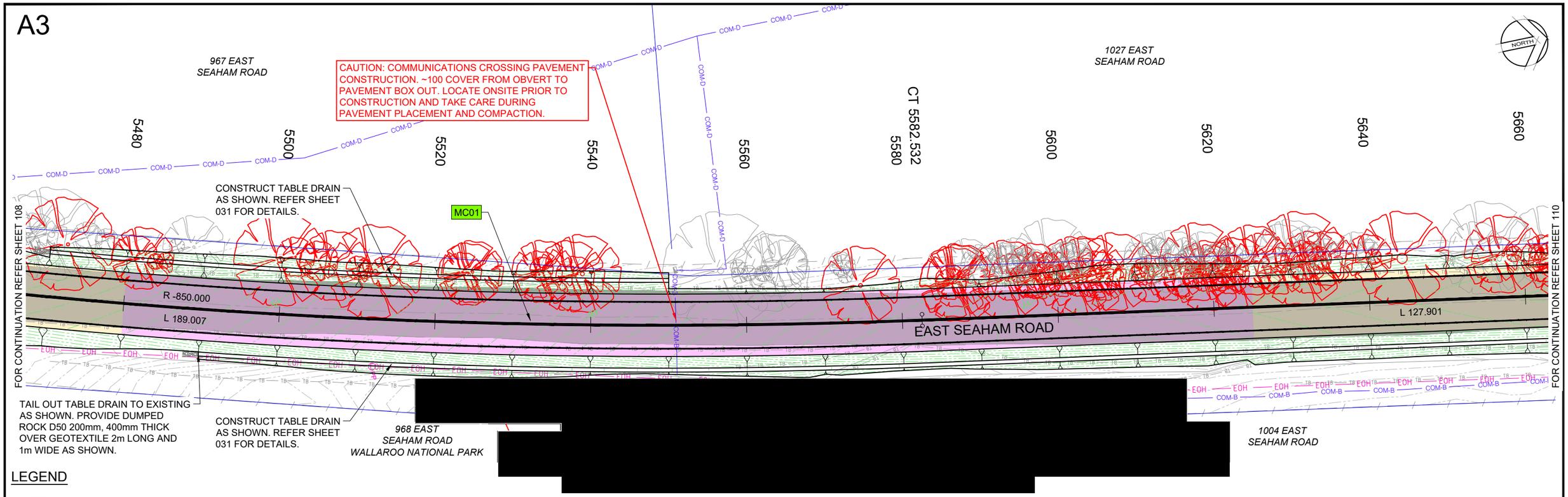
DETAIL PLAN AND LONGITUDINAL SECTION SHEET 8

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-108
File Ref. 240458
REV. E

A3



LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT

HORIZONTAL CURVES							R-850															
							L189.01															
VERTICAL CURVES		K25.08									K43.7						L127.9				K30.01	
		L68.25			L34.55						L68.25							L39.84			L100	
VERTICAL GRADES						2.5%										0.9%						
						L102.8										L123.96						
DATUM RL 6.000																						
DESIGN	14.847	15.056	15.160	15.545			16.012	16.037	16.480	16.720		16.831	16.869	17.090	17.161	17.276		17.457	17.521	17.610		
SURVEY	14.610	14.804	14.880	15.255			15.671	15.697	16.112	16.365		16.493	16.541	16.747	16.816	16.947		17.141	17.205	17.354		
CUT / FILL	0.237	0.251	0.280	0.289			0.341	0.341	0.368	0.354		0.337	0.328	0.343	0.345	0.329		0.316	0.316	0.255		
CHAINAGE	5490	5500	5504.41	5520			5538.958	5540	5560	5573.082		5580	5582.532	5600	5607.207	5620		5640	5647.043	5660		
SUPER ELEVATION						RHS 3%																
									LHS -3%												LHS and RHS -3%	

MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 1:250 METRES

5 0 5 10 15 20 25 1:500 METRES

REV	AMENDMENT	ISSUED	DATE
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ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

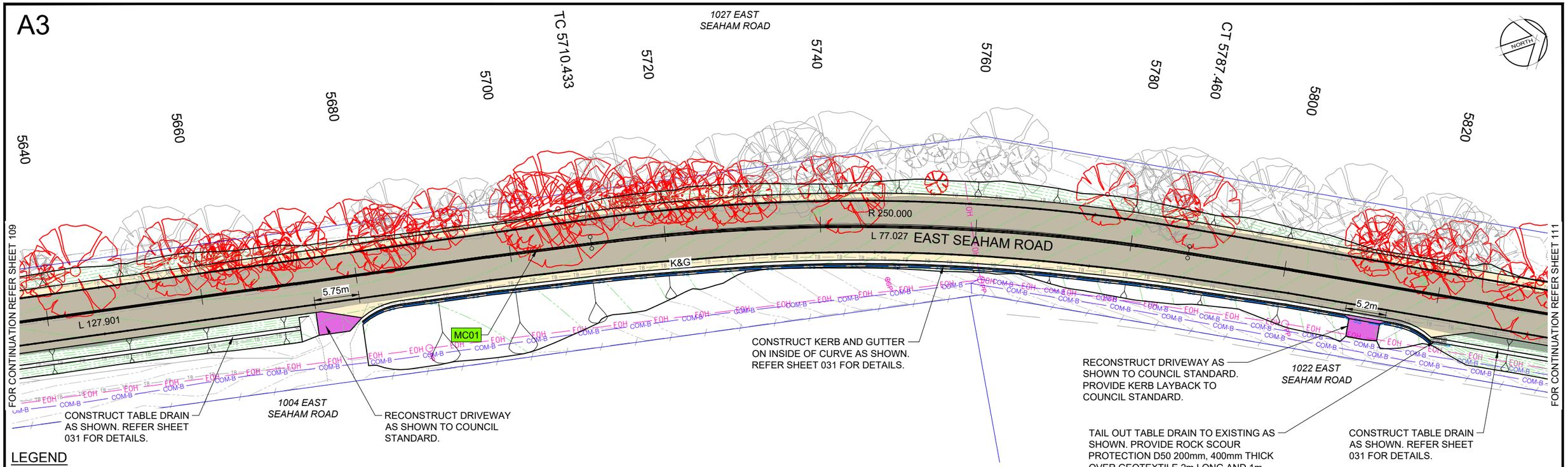
DETAIL PLAN AND LONGITUDINAL SECTION SHEET 9

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-109
File Ref. 240458
REV. E

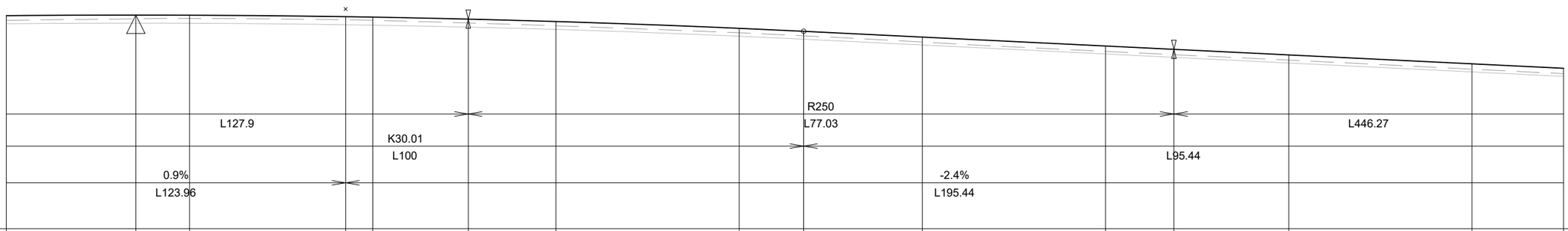
A3



PLAN
SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT



DESIGN	17.610	17.643	17.637	17.555	17.531	17.423	17.292	16.920	16.757	16.443	15.957	15.776	15.471	14.985	14.742
SURVEY	17.354	17.440	17.461	17.388	17.361	17.212	17.059	16.678	16.514	16.175	15.662	15.485	15.190	14.694	14.449
CUT / FILL	0.255	0.203	0.176	0.168	0.171	0.212	0.233	0.242	0.244	0.268	0.295	0.291	0.281	0.291	0.294
CHAINAGE	5660	5674.138	5680	5697.043	5700	5710.433	5720	5740	5747.043	5760	5780	5787.46	5800	5820	5830

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 1:250 METRES
5 0 5 10 15 20 25 1:500 METRES

REV	AMENDMENT	ISSUED	DATE
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BARKER RYAN STEWART
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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

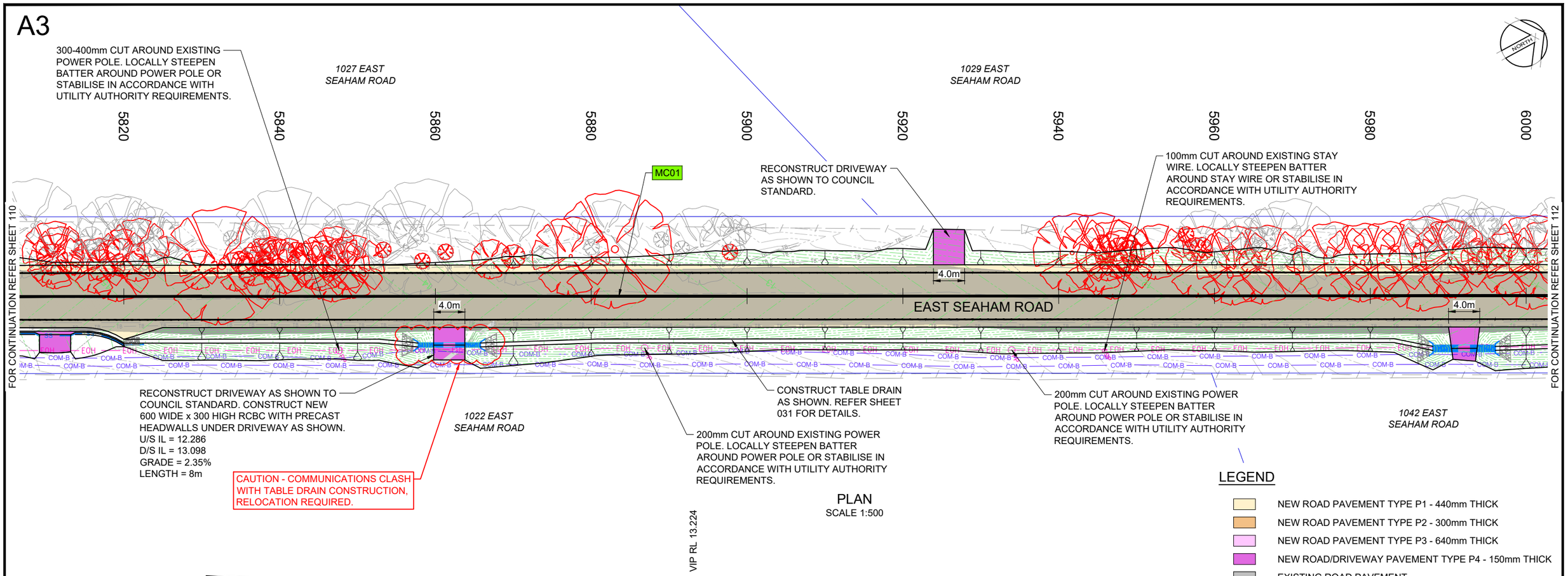
DETAIL PLAN AND LONGITUDINAL SECTION SHEET 10

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-110
File Ref. 240458
REV. E

A3



PLAN
SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT

VIP RL 13.224

HORIZONTAL CURVES										L446.27							
VERTICAL CURVES		L95.44						K235.23 L100						L220.68			
VERTICAL GRADES				-2.4% L195.44								-2% L293.18					
DATUM RL 3.000																	
DESIGN	14.742	14.499	14.439	14.020	13.557	13.277	13.112	12.684	12.272	12.222	11.871	11.470	11.070				
SURVEY	14.449	14.172	14.099	13.595	13.062	12.786	12.648	12.294	11.889	11.835	11.463	11.094	10.744				
CUT / FILL	0.294	0.327	0.340	0.425	0.496	0.491	0.464	0.390	0.383	0.387	0.408	0.376	0.325				
CHAINAGE	5830	5840	5842.484	5860	5880	5892.484	5900	5920	5940	5942.484	5960	5980	6000				
SUPER ELEVATION								LHS and RHS -3%									

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 1:250 METRES

5 0 5 10 15 20 25 1:500 METRES

REV	AMENDMENT	ISSUED	DATE
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C	90% DETAILED DESIGN	AS	01/11/24
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BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
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HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 11

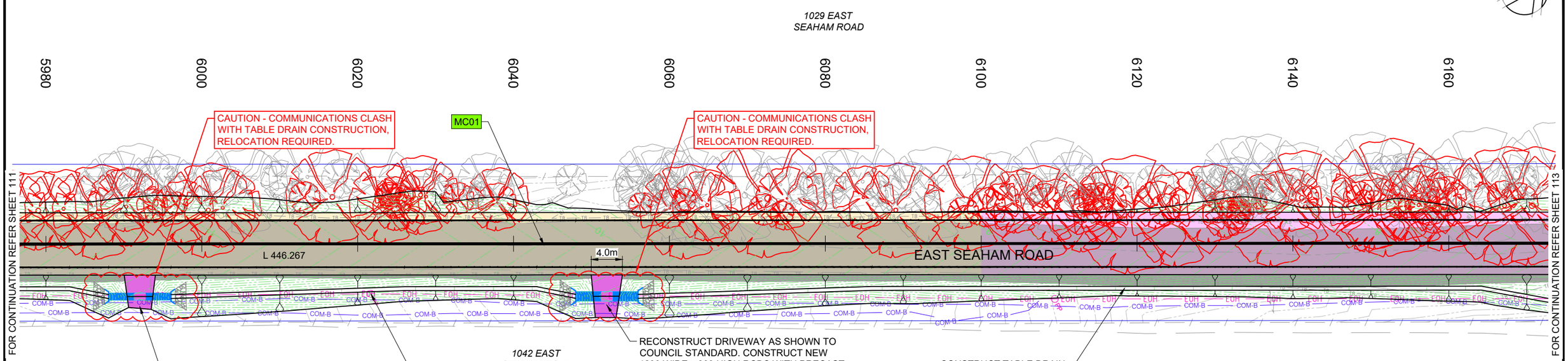
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. 1:500
Vert. 1:250
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-111
File Ref. 240458
REV. E

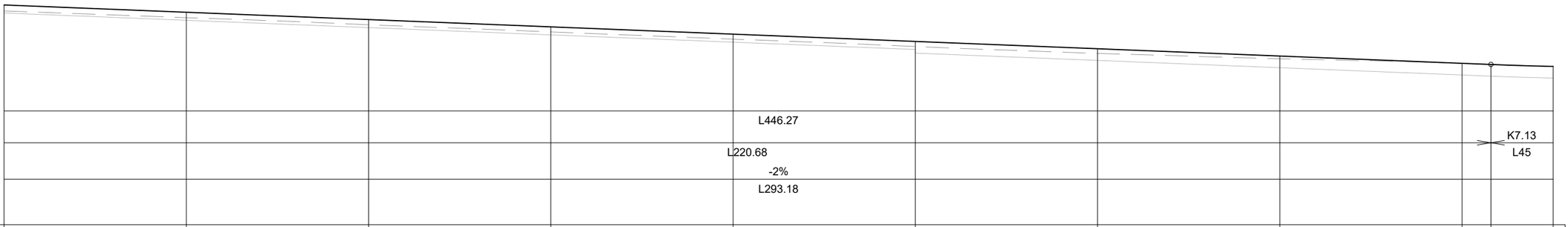
A3



PLAN
SCALE 1:500

LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT



HORIZONTAL CURVES											
VERTICAL CURVES											
VERTICAL GRADES											
DATUM RL -1.000											
DESIGN	11.070	10.669	10.268	9.867	9.466	9.065	8.665	8.264	7.863	7.800	7.695
SURVEY	10.744	10.372	9.982	9.589	9.192	8.789	8.409	8.116	7.861	7.806	7.699
CUT / FILL	0.325	0.297	0.286	0.278	0.274	0.277	0.255	0.148	0.002	-0.006	-0.003
CHAINAGE	6000	6020	6040	6060	6080	6100	6120	6140	6160	6163.161	6170
SUPER ELEVATION					LHS and RHS -3%						

MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 12

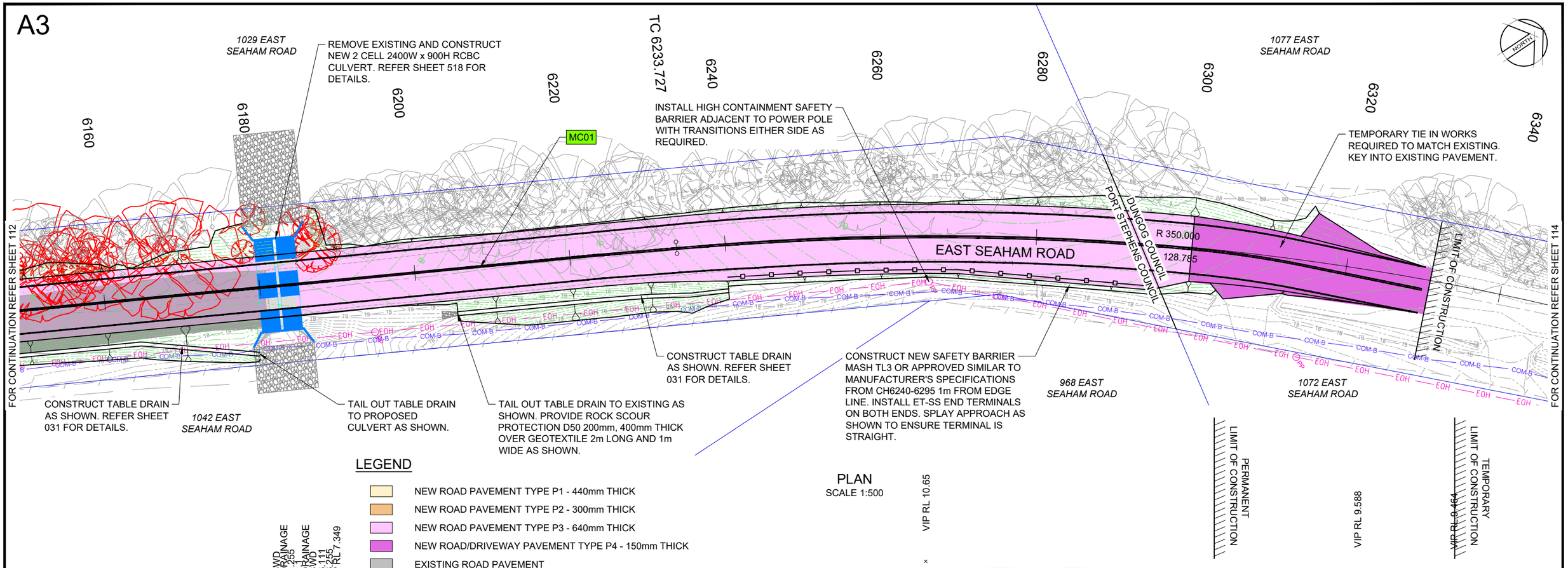
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. 1:500
Vert. 1:250
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-112
File Ref. 240458
REV. E

A3

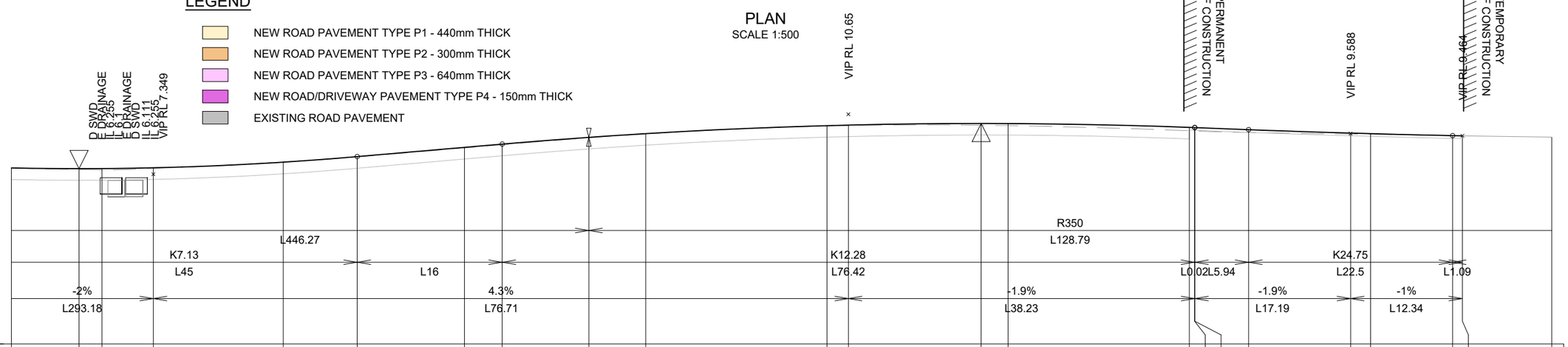


LEGEND

- NEW ROAD PAVEMENT TYPE P1 - 440mm THICK
- NEW ROAD PAVEMENT TYPE P2 - 300mm THICK
- NEW ROAD PAVEMENT TYPE P3 - 640mm THICK
- NEW ROAD/DRIVEWAY PAVEMENT TYPE P4 - 150mm THICK
- EXISTING ROAD PAVEMENT

PLAN

SCALE 1:500



MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:500
VERT SCALE 1:250

2.5 0 2.5 5 7.5 10 12.5 METRES 1:250

5 0 5 10 15 20 25 METRES 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DETAIL PLAN AND LONGITUDINAL SECTION SHEET 13

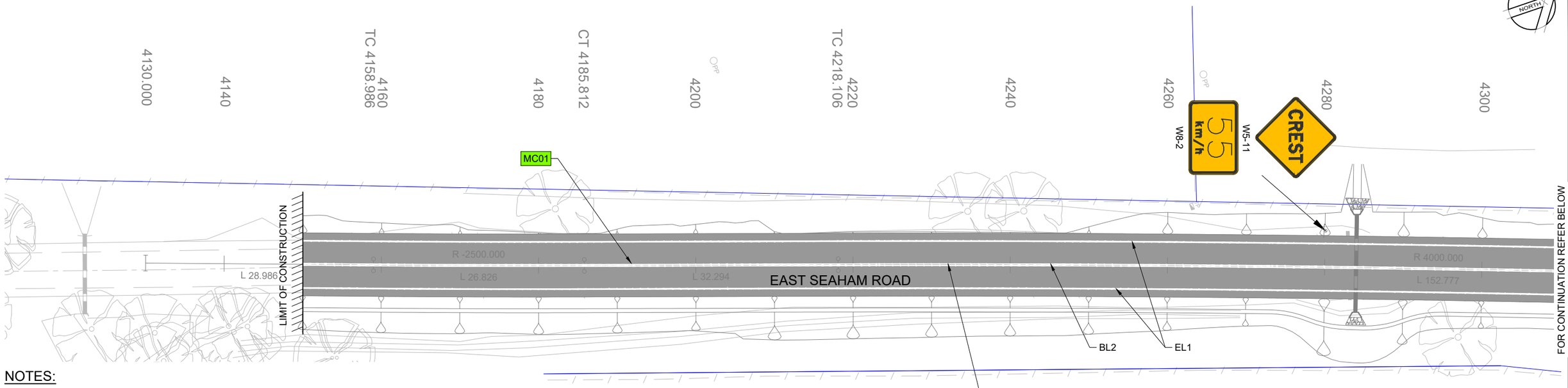
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500, Horiz. 1:500, Vert. 1:250, X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-113
File Ref. 240458
REV. E

A3

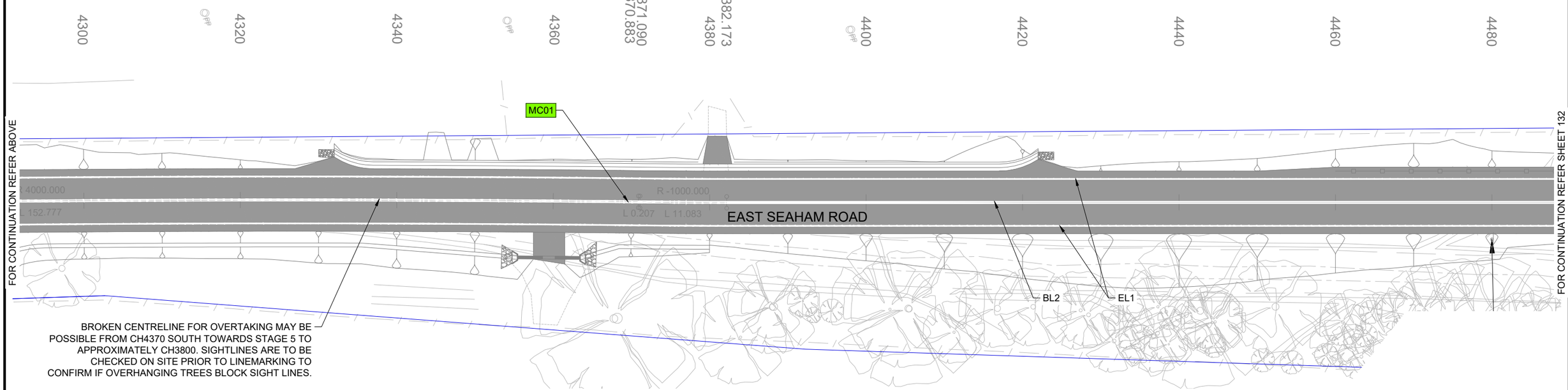


NOTES:

1. LINEMARKING AND GUIDEPOSTS TO BE INSTALLED AS PER TfNSW DELINEATION GUIDELINES AND SPECIFICATIONS. NO RRPM'S ARE TO BE INSTALLED.
2. ALL LINEMARKING DISTURBED BY CONSTRUCTION WORKS TO BE REINSTATED.
3. ALL PAVEMENT MARKINGS REQUIRING REMOVAL MUST BE REMOVED BY WATER BLASTING OR GRINDING IN ACCORDANCE WITH TfNSW SPECIFICATIONS. WHERE EXISTING LINES ARE REMOVED BY GRINDING OUT COVER WITH 7mm SEAL.
4. ALL SIGNS TO BE B SIZE. ANY CAM SIGNAGE A SIZE.
5. ALL SIGNS TO BE CLASS 1 REFLECTIVE.
6. RETAIN ALL EXISTING GUIDANCE AND WAY FINDING SIGNAGE.
7. SIGN LOCATION AND ORIENTATION TO BE IN ACCORDANCE WITH AS1742.2 AND TfNSW SUPPLEMENTS.

BROKEN CENTRELINE FOR OVERTAKING MAY BE POSSIBLE FROM CH4370 SOUTH TOWARDS STAGE 5 TO APPROXIMATELY CH3800. SIGHTLINES ARE TO BE CHECKED ON SITE PRIOR TO LINEMARKING TO CONFIRM IF OVERHANGING TREES BLOCK SIGHT LINES.

PLAN
SCALE 1:500



BROKEN CENTRELINE FOR OVERTAKING MAY BE POSSIBLE FROM CH4370 SOUTH TOWARDS STAGE 5 TO APPROXIMATELY CH3800. SIGHTLINES ARE TO BE CHECKED ON SITE PRIOR TO LINEMARKING TO CONFIRM IF OVERHANGING TREES BLOCK SIGHT LINES.

PLAN
SCALE 1:500

5 0 5 10 15 20 25
METRES
1:500

REV	AMENDMENT	ISSUED	DATE
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D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
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ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

LINEMARKING AND SIGNAGES LAYOUT SHEET 1

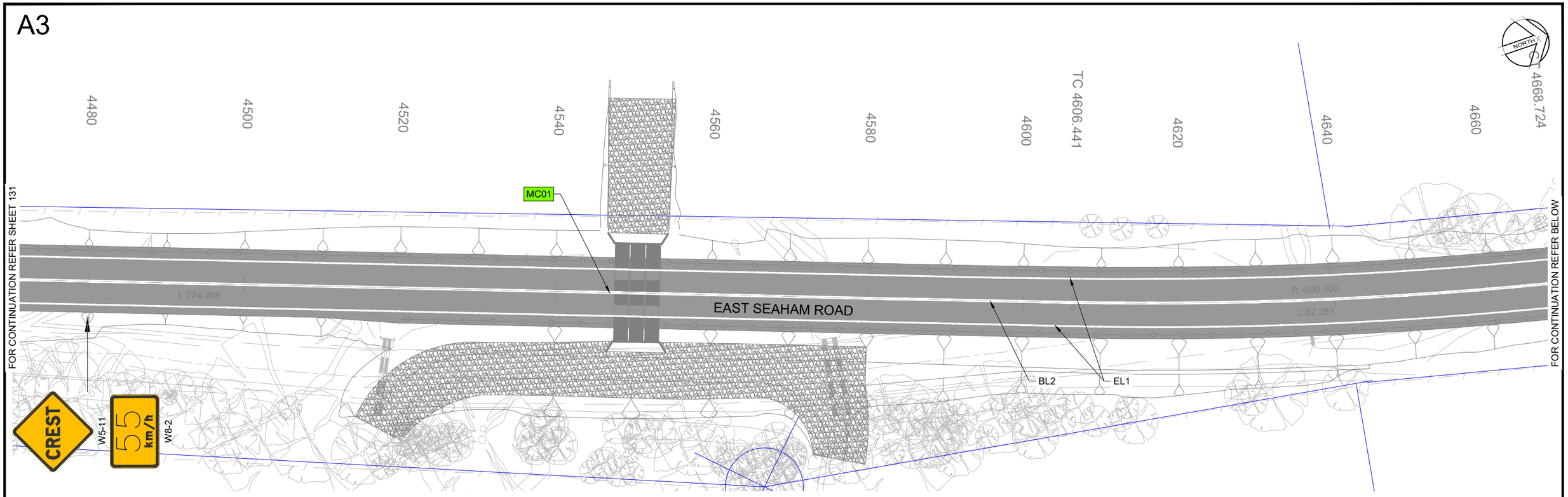
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -

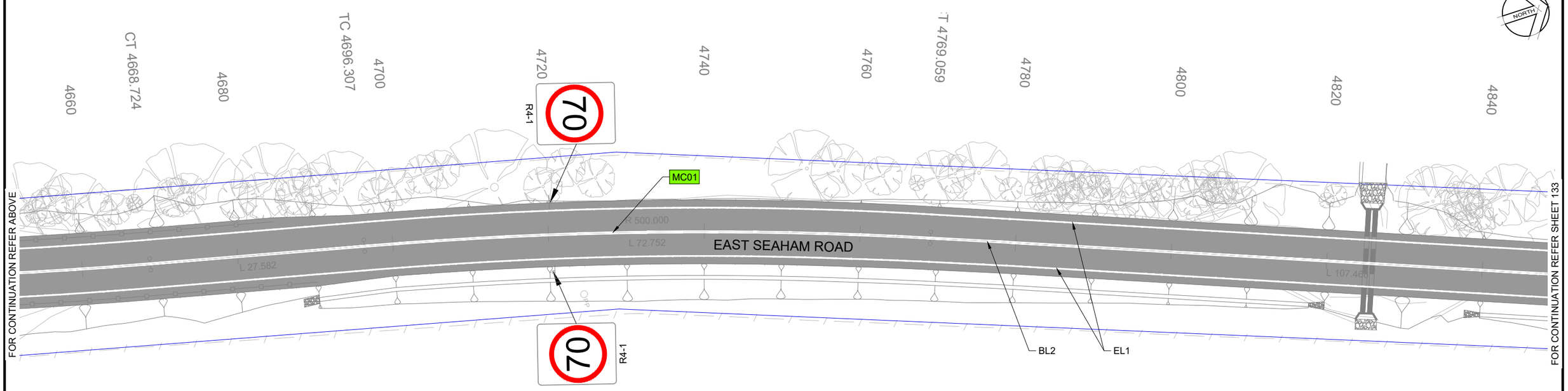
Datum: A.H.D.

Plan No. 240458-01-131
File Ref. 240458
REV. E

A3



PLAN
SCALE 1:500



PLAN
SCALE 1:500

5 0 5 10 15 20 25
METRES
1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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BARKER RYAN STEWART
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HUNTER P: 02 4966 8388
ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

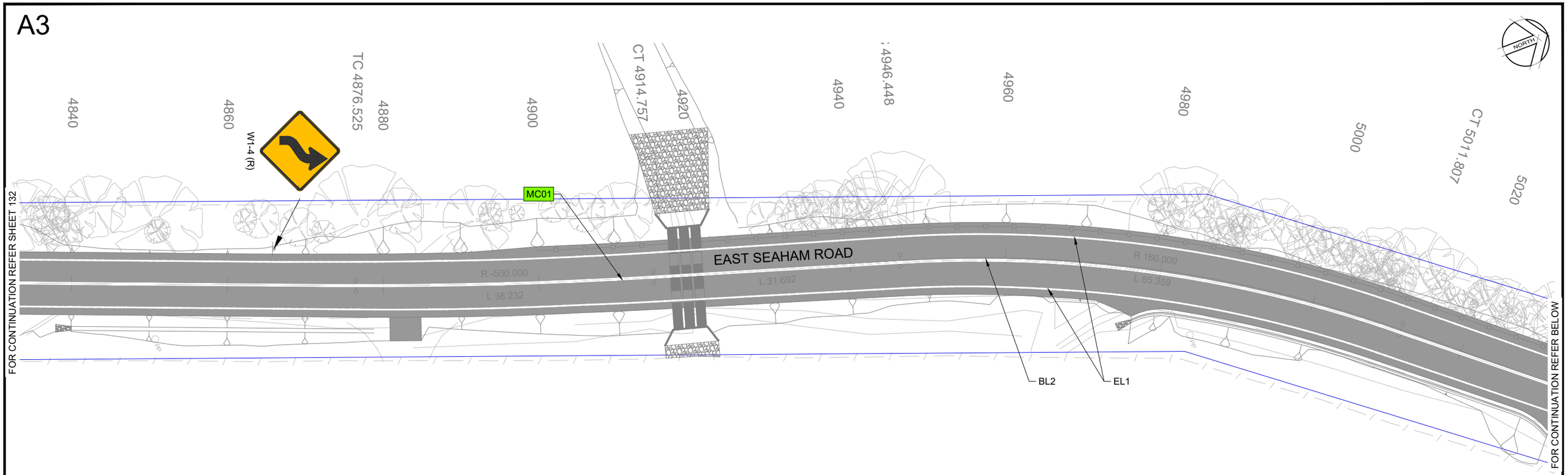
LINEMARKING AND SIGNAGES LAYOUT SHEET 2

Designed: BF
Drawn: RD
Checked: SGB

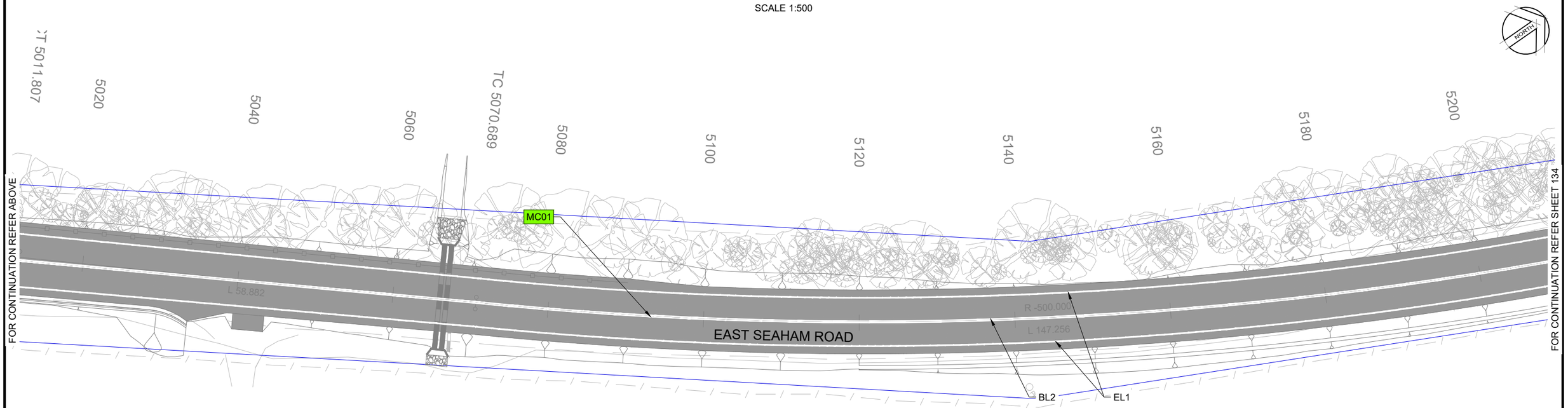
Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-132
File Ref. 240458
REV. E

A3



PLAN
SCALE 1:500



PLAN
SCALE 1:500

5 0 5 10 15 20 25
METRES
1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
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CENTRAL COAST
P: 02 4325 5255
HUNTER
P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

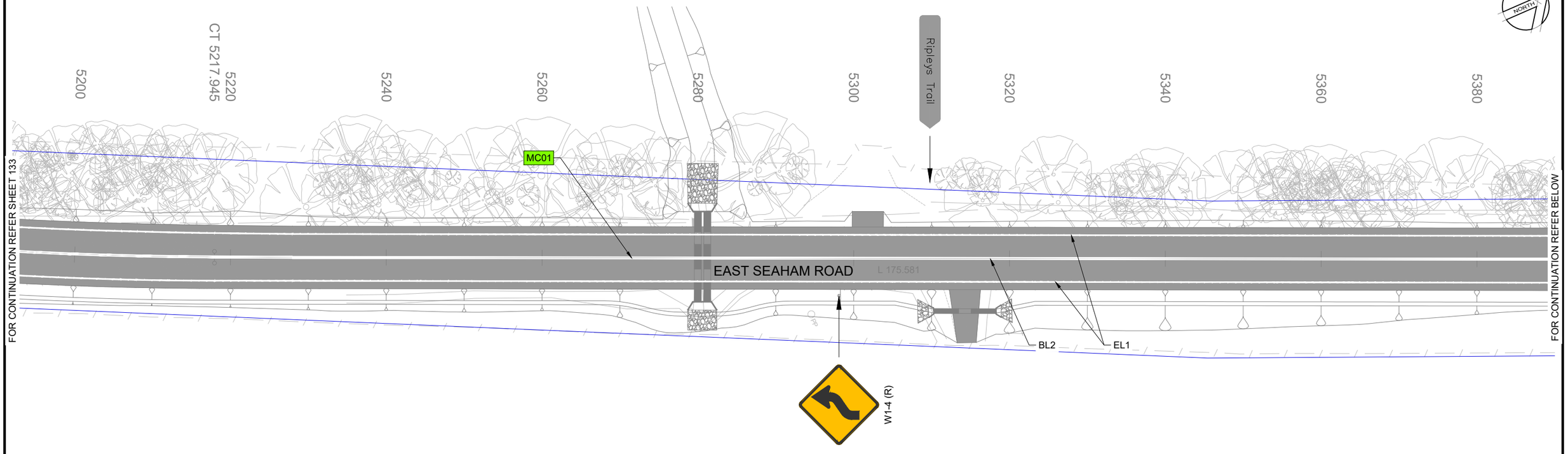
LINEMARKING AND SIGNAGES LAYOUT SHEET 3

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
240458-01-133
File Ref.
240458
REV.
E

A3



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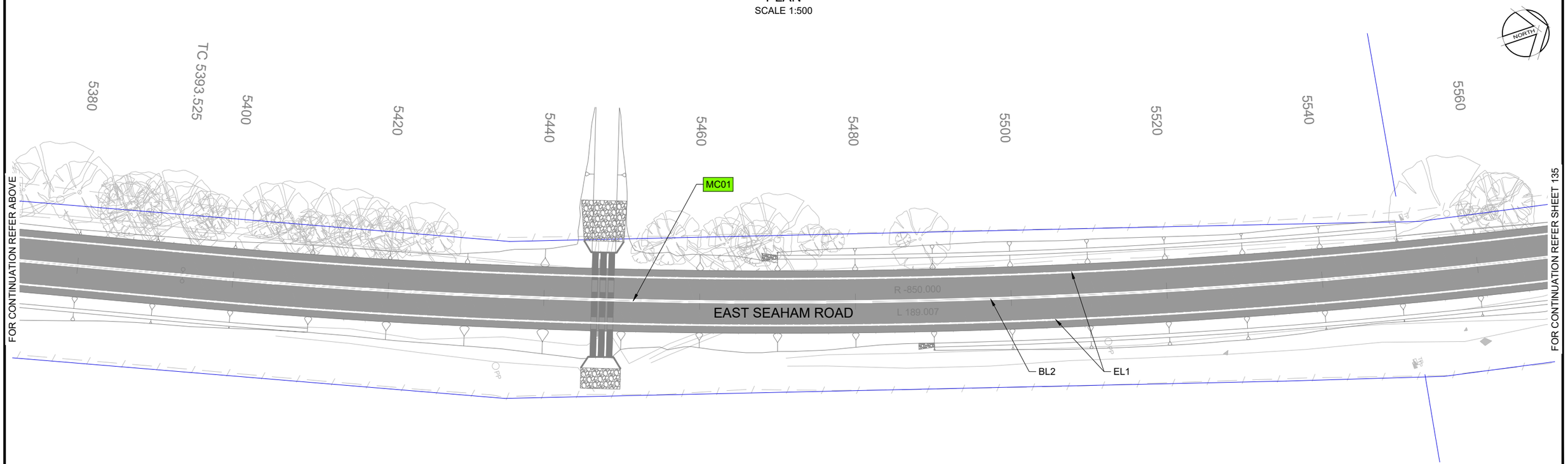

PLAN
SCALE 1:500

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METRES
1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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BARKER RYAN STEWART
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

LINEMARKING AND SIGNAGES LAYOUT SHEET 4

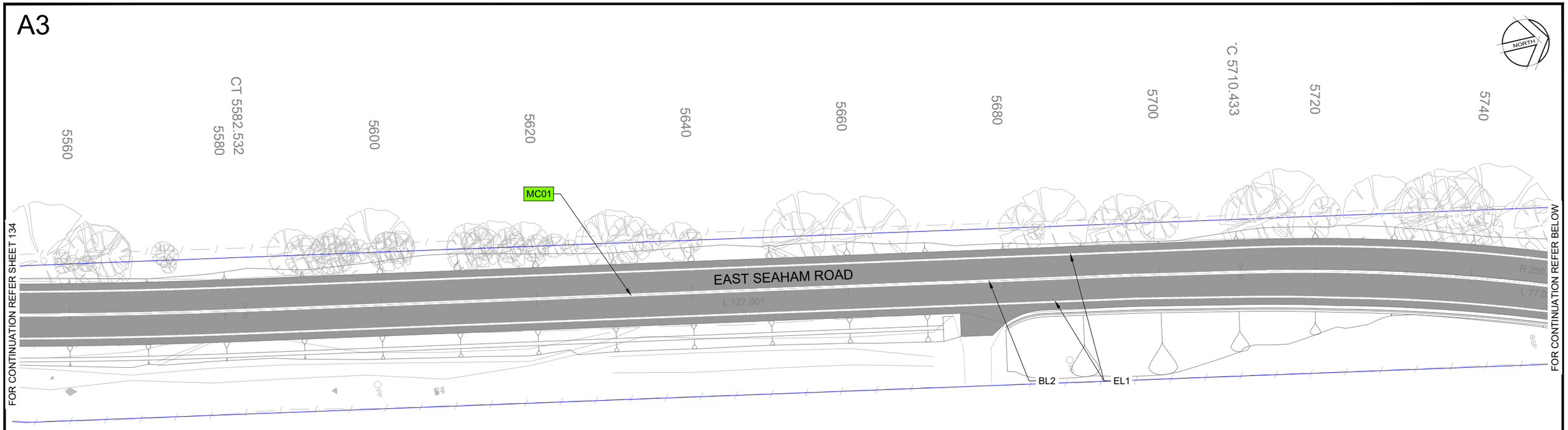
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-134
File Ref. 240458
REV. E

A3



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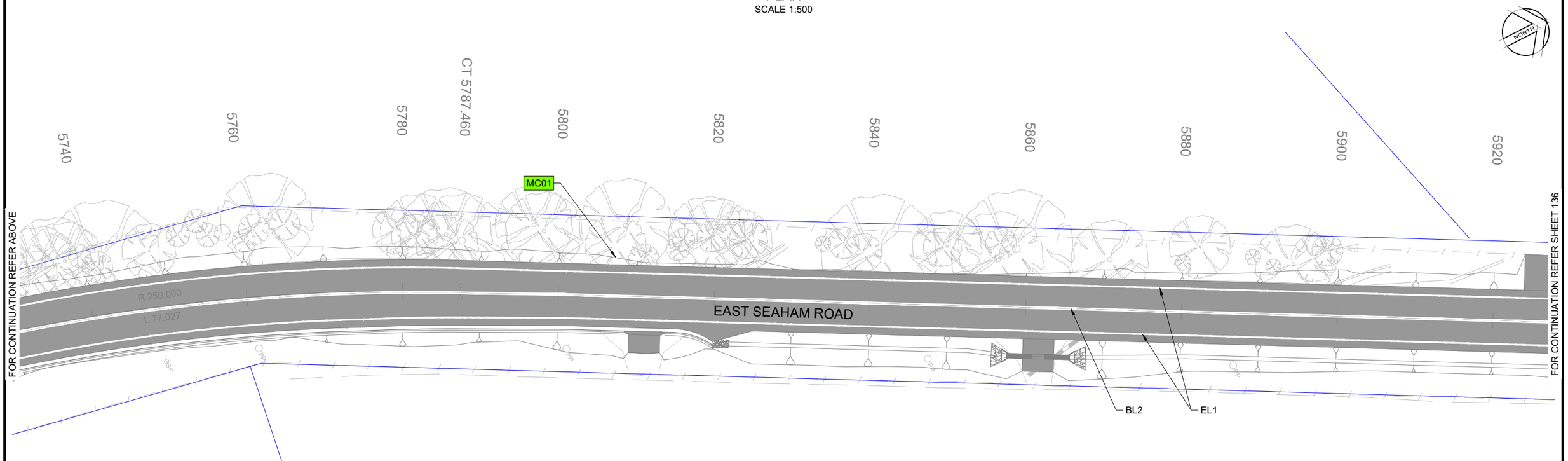

PLAN
SCALE 1:500

5 0 5 10 15 20 25
METRES
1:500

REV	AMENDMENT	ISSUED	DATE
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

LINEMARKING AND SIGNAGES LAYOUT SHEET 5

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -

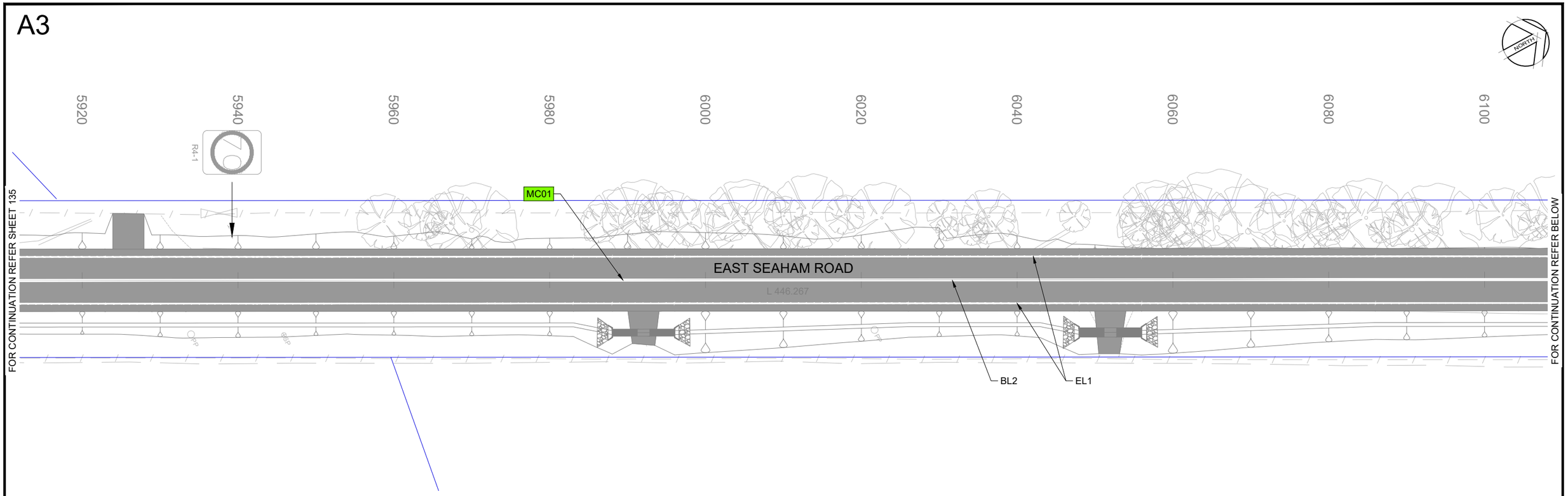
Datum: A.H.D.

Plan No.
240458-01-135

File Ref.
240458

REV.
E

A3



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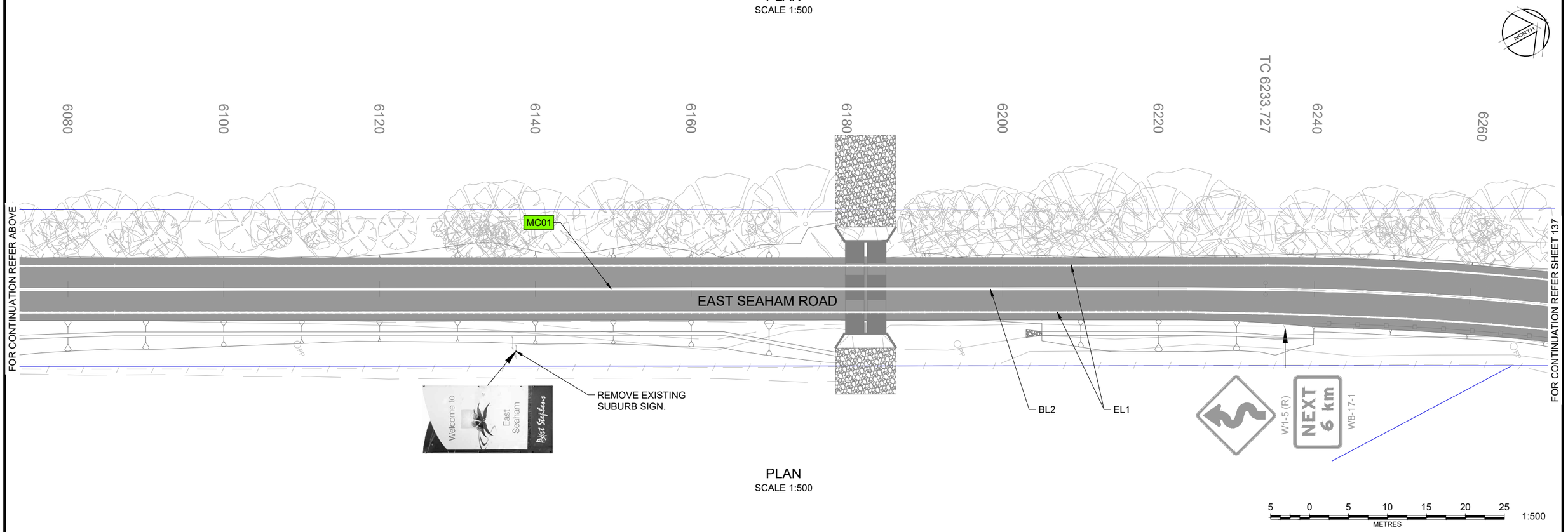

PLAN
SCALE 1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

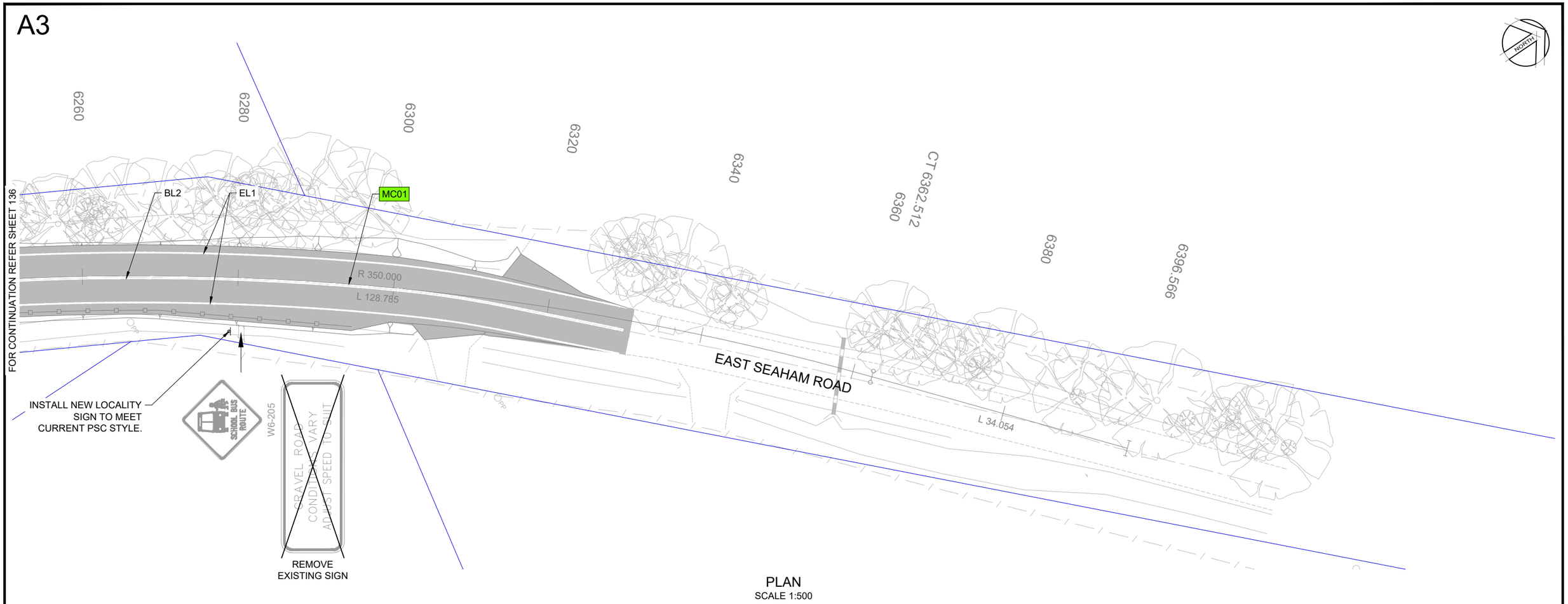
LINEMARKING AND SIGNAGES LAYOUT SHEET 6

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-136
File Ref. 240458
REV. E

A3



PLAN
SCALE 1:500

5 0 5 10 15 20 25
METRES
1:500

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
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BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

LINEMARKING AND SIGNAGES LAYOUT SHEET 7

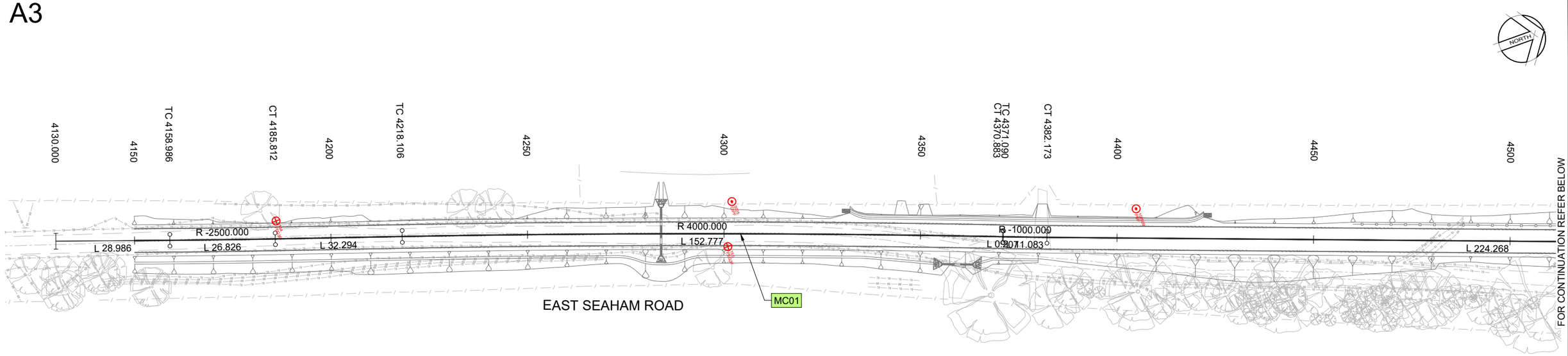
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:500
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-137
File Ref. 240458
REV. E

A3



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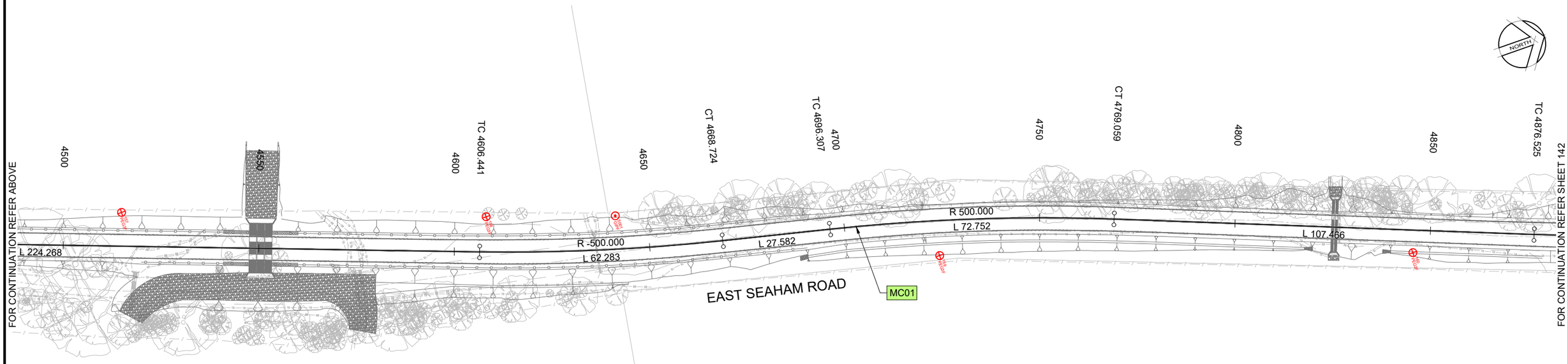

PLAN
SCALE 1:1000

10 0 10 20 30 40 50
METRES
1:1000

REV	AMENDMENT	ISSUED	DATE
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BARKER RYAN STEWART
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

SETOUT PLAN SHEET 1

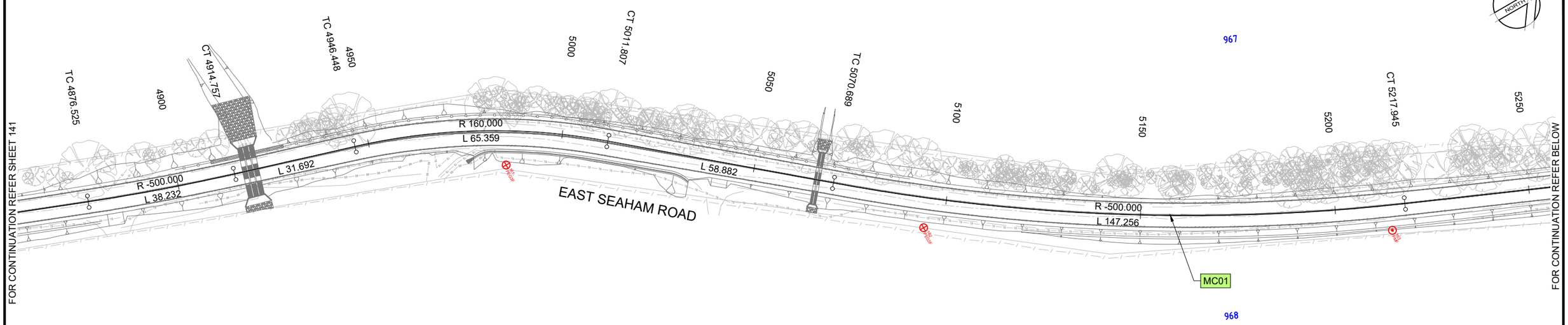
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-141
File Ref. 240458
REV. E

A3



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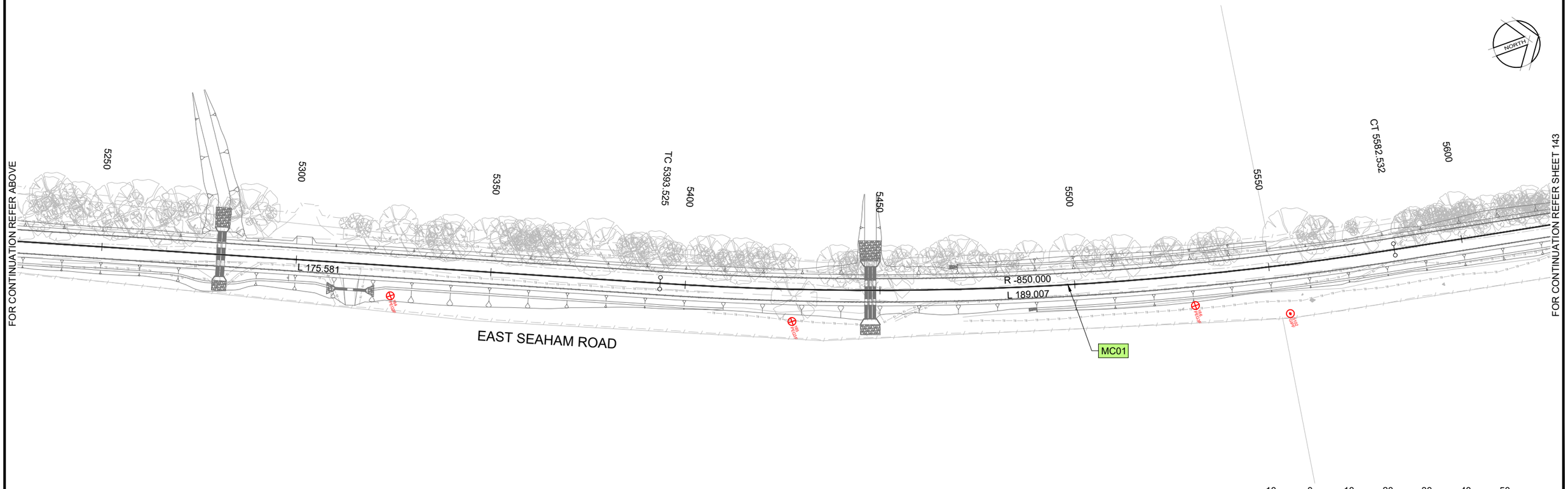

PLAN
SCALE 1:1000

REV	AMENDMENT	ISSUED	DATE
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BARKER RYAN STEWART
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

SETOUT PLAN SHEET 2

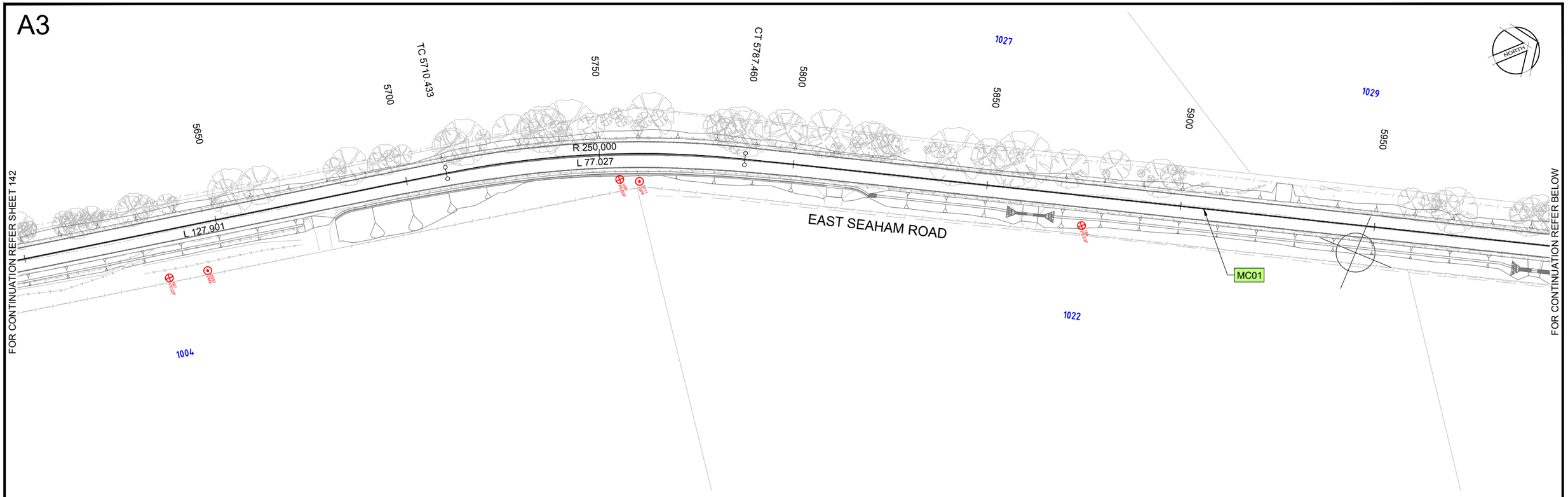
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-142
File Ref. 240458
REV. E

A3



PLAN
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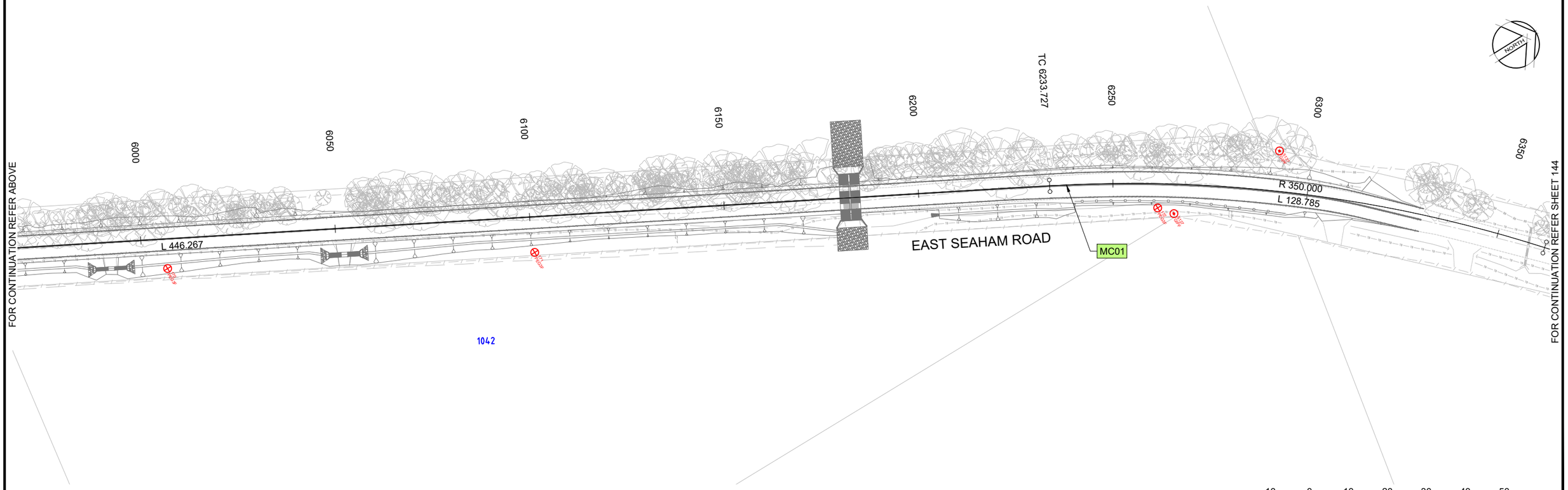

PLAN
SCALE 1:1000

10 0 10 20 30 40 50
METRES
1:1000

REV	AMENDMENT	ISSUED	DATE
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BARKER RYAN STEWART
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HUNTER
P: 02 4966 8388
ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

SETOUT PLAN SHEET 3

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
240458-01-143

File Ref.
240458

REV.
E

A3

PLAN
SCALE 1:1000

SURVEY CONTROL TABLE				
ID	EASTING	NORTHING	ELEVATION	DESCRIPTION
92980	386567.472	6392948.986	10.950	SSMF
163	386053.732	6391883.105	13.262	PMF
2002	386199.413	6392289.773	17.481	PMF
109509	385718.502	6391154.274	12.807	PMF
154	385647.416	6390947.276	8.149	PEG3F
155	385692.424	6391053.259	10.790	PEG3F
157	385755.430	6391257.852	5.022	PEG3F
158	385787.311	6391345.467	5.517	PEG3F
159	385835.021	6391451.621	9.405	PEG3F
160	385874.338	6391566.037	8.484	PEG3F
161	385925.649	6391694.430	10.266	PEG3F
162	385993.077	6391779.214	11.128	PEG3F
164	386099.153	6391983.987	13.885	PEG3F
165	386140.383	6392078.698	14.018	PEG3F
166	386171.708	6392177.478	15.927	PEG3F
167	386197.428	6392279.969	17.585	PEG3F
168	386218.014	6392396.493	16.658	PEG3F
169	386274.048	6392501.636	13.729	PEG3F
170	386336.583	6392617.033	10.808	PEG3F
171	386382.925	6392699.186	8.882	PEG3F
172	386457.837	6392840.947	9.947	PEG3F
5001	385798.000	6391376.700	0.000	GIPF
5025	385682.000	6391058.100	0.000	GIPF
5102	386181.900	6392199.700	0.000	GIPF
5111	386220.400	6392401.000	0.000	GIPF
5127	386461.300	6392843.700	0.000	GIPF
5137	386462.000	6392875.200	0.000	GIPF

D CONTROL/MASTER->MC01 HORIZONTAL SEGMENTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	4130.000	385633.324	6390892.850	7.458	19°18'10.04"	LINE		28.986
TC	4158.986	385642.905	6390920.206	7.531	19°18'10.04"	ARC	-2500.000	26.826
CT	4185.812	385651.637	6390945.571	8.095	18°41'16.74"	LINE		32.294
TC	4218.106	385661.984	6390976.163	9.348	18°41'16.74"	ARC	4000.000	152.777
CT	4370.883	385713.688	6391119.916	13.373	20°52'34.89"	LINE		0.207
TC	4371.090	385713.762	6391120.109	13.374	20°52'34.89"	ARC	-1000.000	11.083
CT	4382.173	385717.654	6391130.486	13.358	20°14'28.79"	LINE		224.268
TC	4606.441	385795.245	6391340.904	6.689	20°14'28.79"	ARC	-500.000	62.283
CT	4668.724	385813.103	6391400.530	7.346	13°06'15.03"	LINE		27.582
TC	4696.307	385819.356	6391427.394	8.222	13°06'15.03"	ARC	500.000	72.752
CT	4769.059	385840.939	6391496.804	9.122	21°26'27.38"	LINE		107.466
TC	4876.525	385880.222	6391596.833	8.813	21°26'27.38"	ARC	-500.000	38.232
CT	4914.757	385892.824	6391632.918	8.623	17°03'35.68"	LINE		31.692
TC	4946.448	385902.121	6391663.216	8.532	17°03'35.68"	ARC	160.000	65.359
CT	5011.807	385933.352	6391720.113	10.161	40°27'53.60"	LINE		58.882
TC	5070.689	385971.565	6391764.911	11.214	40°27'53.60"	ARC	-500.000	147.256
CT	5217.945	386049.378	6391889.302	13.484	23°35'26.32"	LINE		175.581
TC	5393.525	386119.645	6392050.209	14.294	23°35'26.32"	ARC	-850.000	189.007
CT	5582.532	386175.485	6392230.372	16.869	10°51'01.08"	LINE		127.901
TC	5710.433	386199.562	6392355.986	17.423	10°51'01.08"	ARC	250.000	77.027
CT	5787.460	386225.395	6392428.228	15.776	28°30'13.04"	LINE		446.267
TC	6233.727	386438.360	6392820.402	9.380	28°30'13.04"	ARC	350.000	128.785
CT	6362.512	386519.029	6392919.860		49°35'09.70"	LINE		34.054
E	6396.566	386544.957	6392941.937		49°35'09.70"			

10 0 10 20 30 40 50
METRES
1:1000

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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

SETOUT PLAN SHEET 4

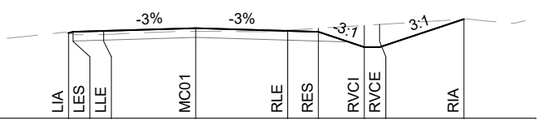
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

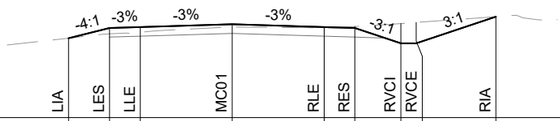
Plan No. 240458-01-144
File Ref. 240458
REV. E

A3



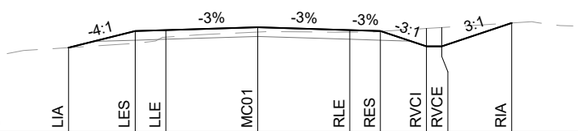
DATUM RL 5.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	7.775	7.812	7.842	7.932	7.842	7.812	7.312	7.312	8.228
SURVEY	7.775	7.743	7.724	7.829	7.867	7.929	8.022	8.053	8.228
OFFSET	-4.150	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.749

CH 4180



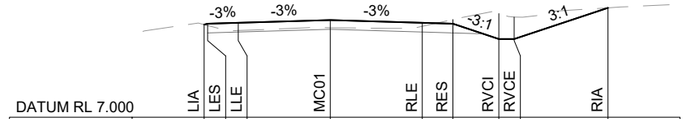
DATUM RL 4.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	7.089	7.424	7.454	7.544	7.454	7.424	6.924	6.924	7.791
SURVEY	7.089	7.231	7.282	7.453	7.424	7.469	7.567	7.603	7.791
OFFSET	-5.341	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.601

CH 4160



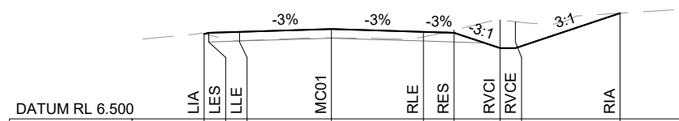
DATUM RL 4.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	6.786	7.330	7.360	7.450	7.360	7.330	6.830	6.830	7.590
SURVEY	6.786	6.924	7.129	7.296	7.290	7.316	7.412	7.444	7.590
OFFSET	-6.175	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.280

CH 4150



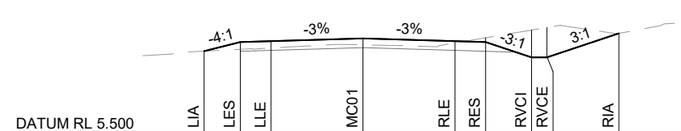
DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	10.019	10.048	10.078	10.168	10.078	10.048	9.548	9.548	10.567
SURVEY	10.019	9.990	9.828	9.919	9.964	10.184	10.381	10.267	10.567
OFFSET	-4.114	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	9.058

CH 4240



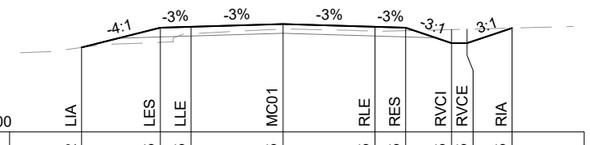
DATUM RL 6.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	9.269	9.308	9.338	9.428	9.338	9.308	8.808	8.808	9.945
SURVEY	9.269	9.234	9.046	9.143	9.175	9.396	9.724	9.668	9.945
OFFSET	-4.154	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	9.413

CH 4220



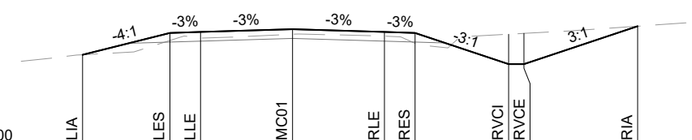
DATUM RL 5.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	8.173	8.469	8.499	8.589	8.499	8.469	7.969	7.969	8.751
SURVEY	8.173	8.232	8.279	8.379	8.440	8.607	8.859	8.943	8.751
OFFSET	-5.181	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.347

CH 4200



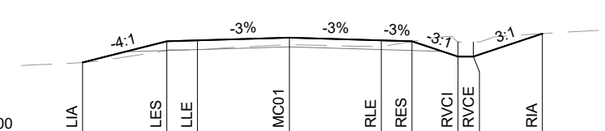
DATUM RL 7.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	10.252	10.895	10.925	11.015	10.925	10.895	10.395	10.395	10.885
SURVEY	10.252	10.416	10.699	10.851	10.783	10.799	10.836	10.849	10.885
OFFSET	-6.572	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.472

CH 4300



DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	9.942	10.655	10.685	10.775	10.685	10.655	9.638	9.638	10.873
SURVEY	9.942	10.407	10.496	10.611	10.548	10.313	10.611	10.638	10.873
OFFSET	-6.849	-4.000	-3.000	0.000	3.000	4.000	7.050	7.550	11.256

CH 4280



DATUM RL 7.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	9.806	10.492	10.522	10.612	10.522	10.492	9.992	9.992	10.743
SURVEY	9.806	10.196	10.217	10.384	10.319	10.488	10.476	10.474	10.743
OFFSET	-6.747	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.252

CH 4260

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING · PROJECT MANAGEMENT · ENGINEERING · CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 1

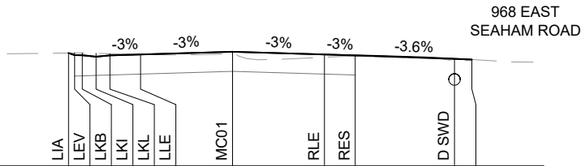
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

Plan No. 240458-01-301
File Ref. 240458
REV. E

A3

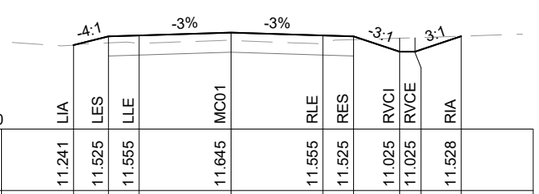


DATUM RL 9.500	LIA	LEV	LKB	LKI	LKL	LLE	MC01	RLE	RES	D SWD	
DESIGN	13.179	13.112	13.107	13.062	13.102	13.132	13.222	13.132	13.102	12.986	12.966
SURVEY	13.179	13.181	13.179	13.169	13.159	13.138	13.154	13.041	13.081	12.931	12.966
OFFSET	-5.350	-5.150	-4.900	-4.450	-4.000	-3.000	0.000	3.000	4.000	7.241	7.806

CH 4360

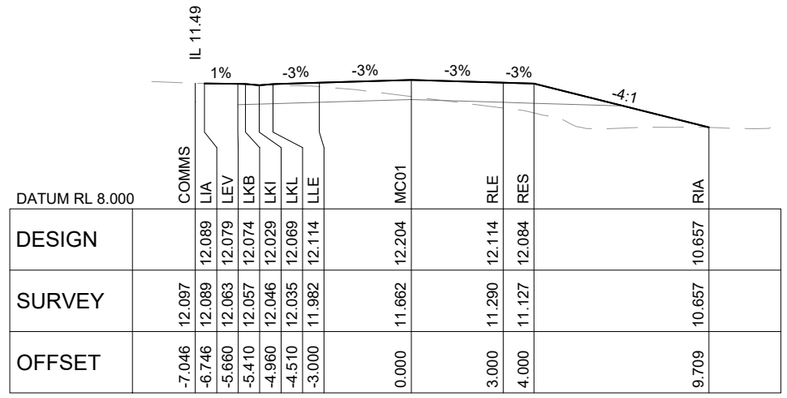
DATUM RL 9.500	LIA	LEV	LKB	LKI	LKL	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.425	12.417	12.412	12.367	12.407	12.437	12.527	12.437	12.407	11.794	11.794	12.583
SURVEY	12.425	12.426	12.431	12.440	12.446	12.390	12.273	12.218	12.175	12.537	12.545	12.583
OFFSET	-5.175	-5.150	-4.900	-4.450	-4.000	-3.000	0.000	3.000	4.000	5.838	6.338	8.704

CH 4340



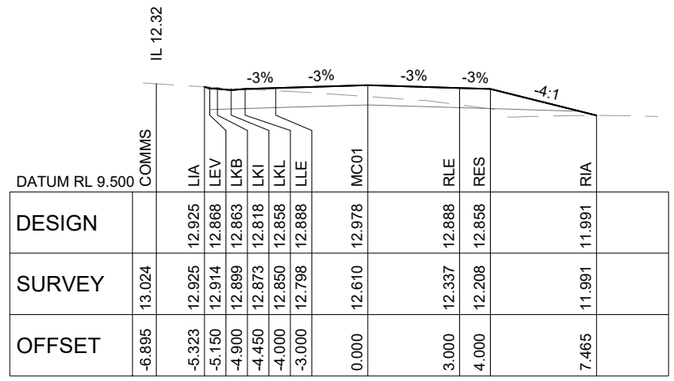
DATUM RL 8.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	11.241	11.525	11.555	11.645	11.555	11.525	11.025	11.025	11.528
SURVEY	11.241	11.311	11.296	11.390	11.282	11.419	11.464	11.479	11.528
OFFSET	-5.138	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.509

CH 4320



DATUM RL 8.000	COMMS	LIA	LEV	LKB	LKI	LKL	LLE	MC01	RLE	RES	RIA
DESIGN		12.089	12.079	12.074	12.029	12.069	12.114	12.204	12.114	12.084	10.657
SURVEY	12.097	12.089	12.063	12.057	12.046	12.035	11.982	11.662	11.290	11.127	10.657
OFFSET	-7.046	-6.746	-5.660	-5.410	-4.960	-4.510	-3.000	0.000	3.000	4.000	9.709

CH 4420

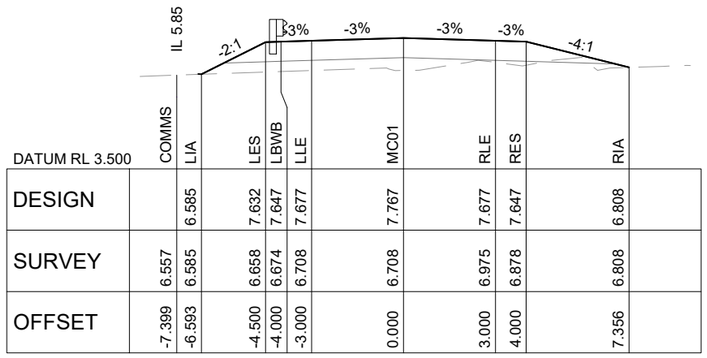


DATUM RL 9.500	COMMS	LIA	LEV	LKB	LKI	LKL	LLE	MC01	RLE	RES	RIA
DESIGN		12.925	12.868	12.863	12.818	12.858	12.888	12.978	12.888	12.858	11.991
SURVEY	13.024	12.925	12.914	12.899	12.873	12.850	12.798	12.610	12.337	12.208	11.991
OFFSET	-6.895	-5.323	-5.150	-4.900	-4.450	-4.000	-3.000	0.000	3.000	4.000	7.465

CH 4400

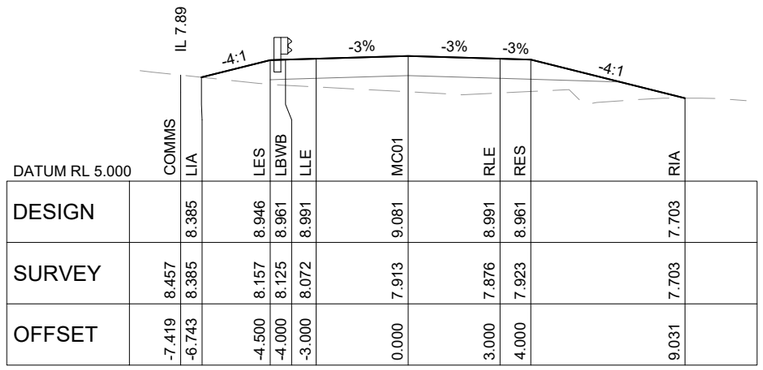
DATUM RL 10.000	COMMS	LKB	LKI	LKL	LLE	MC01	RLE	RES	RIA
DESIGN	13.482	13.303	13.259	13.214	13.254	13.284	13.374	13.284	13.254	12.887
SURVEY	13.484	13.368	13.339	13.319	13.298	13.237	13.082	12.854	12.868	12.887
OFFSET	-8.107	-5.534	-4.900	-4.450	-4.000	-3.000	0.000	3.000	4.000	5.468

CH 4380



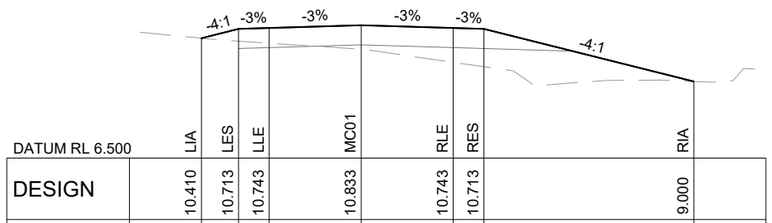
DATUM RL 3.500	COMMS	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN		6.585	7.632	7.647	7.677	7.767	7.677	7.647	6.808
SURVEY	6.557	6.585	6.658	6.674	6.708	6.708	6.975	6.878	6.808
OFFSET	-7.399	-6.593	-4.500	-4.000	-3.000	0.000	3.000	4.000	7.356

CH 4480



DATUM RL 5.000	COMMS	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN		8.385	8.946	8.961	8.991	9.081	8.991	8.961	7.703
SURVEY	8.457	8.385	8.157	8.125	8.072	7.913	7.876	7.923	7.703
OFFSET	-7.419	-6.743	-4.500	-4.000	-3.000	0.000	3.000	4.000	9.031

CH 4460



DATUM RL 6.500	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	10.410	10.713	10.743	10.833	10.743	10.713	9.000
SURVEY	10.410	10.310	10.246	10.043	9.622	9.480	9.000
OFFSET	-5.212	-4.000	-3.000	0.000	3.000	4.000	10.850

CH 4440

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 2

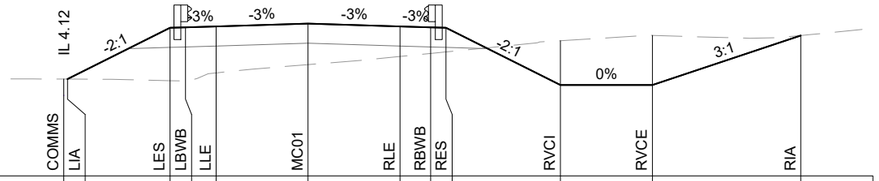
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

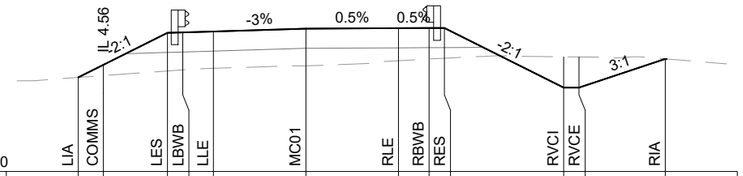
Plan No. 240458-01-302
File Ref. 240458
REV. E

A3



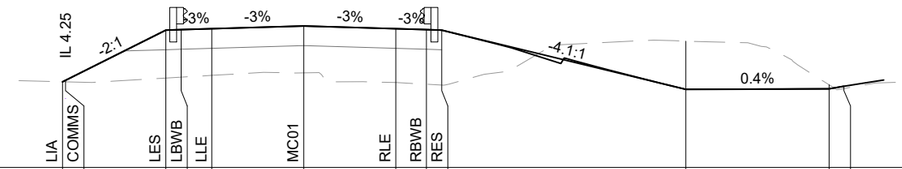
DATUM RL 1.500	COMMS	LIA	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RVCI	RVCE	RIA
DESIGN		4.655	6.329	6.344	6.374	6.464	6.374	6.344	6.329	4.463	4.463	6.076
SURVEY	4.656	4.655	4.603	4.592	4.858	5.128	5.393	5.492	5.542	5.908	6.081	6.076
OFFSET	-7.968	-7.847	-4.500	-4.000	-3.000	0.000	3.000	4.000	4.500	8.232	11.232	16.073

CH 4540



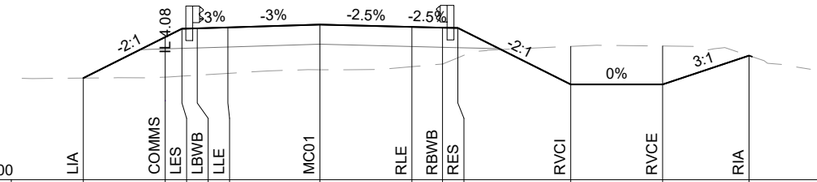
DATUM RL 2.000	LIA	COMMS	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RVCI	RVCE	RIA
DESIGN	5.069	5.478	6.521	6.536	6.566	6.657	6.673	6.678	6.681	4.735	4.735	5.672
SURVEY	5.069	5.130	5.278	5.315	5.365	5.449	5.614	5.668	5.695	5.741	5.736	5.672
OFFSET	-7.441	-6.623	-4.536	-4.036	-3.036	-0.018	3.000	4.000	4.500	8.392	8.892	11.703

CH 4600



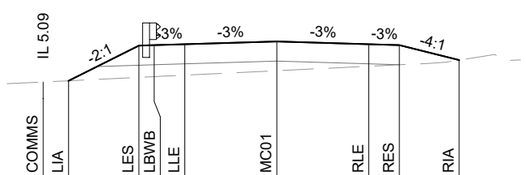
DATUM RL 2.000	LIA	COMMS	LES	LBWB	LLE	MC01	RLE	RBWB	RES			
DESIGN	4.790	4.839	6.476	6.491	6.521	6.611	6.521	6.491	6.476	4.542	4.560	4.643
SURVEY	4.790	4.788	4.911	4.940	4.999	5.081	4.766	4.710	4.682	6.113	4.692	4.570
OFFSET	-7.871	-7.774	-4.500	-4.000	-3.000	0.000	3.000	4.000	4.500	12.460	17.135	17.617

CH 4520



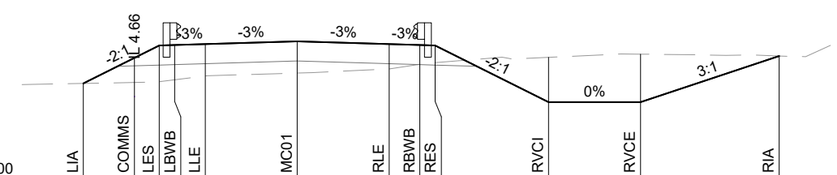
DATUM RL 1.500	LIA	COMMS	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RVCI	RVCE	RIA
DESIGN	4.814		6.149	6.422	6.437	6.467	6.557	6.483	6.458	6.446	4.605	4.605	5.545
SURVEY	4.814		4.846	4.877	4.908	4.968	5.086	5.185	5.272	5.476	5.846	5.859	5.545
OFFSET	-7.716		-5.046	-4.500	-4.000	-3.000	0.000	3.000	4.000	4.500	8.181	11.181	14.000

CH 4580



DATUM RL 2.500	COMMS	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN		5.673	6.820	6.835	6.865	6.955	6.865	6.835	6.347
SURVEY	5.634	5.673	5.785	5.808	5.856	6.002	6.147	6.195	6.347
OFFSET	-7.618	-6.793	-4.500	-4.000	-3.000	0.000	3.000	4.000	5.951

CH 4500



DATUM RL 2.000	LIA	COMMS	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RVCI	RVCE	RIA
DESIGN	5.087	5.920	6.325	6.340	6.370	6.460	6.370	6.340	6.325	4.476	4.476	5.982
SURVEY	5.087	5.117	5.145	5.207	5.330	5.424	5.561	5.710	5.764	5.937	6.041	5.982
OFFSET	-6.977	-5.310	-4.500	-4.000	-3.000	0.000	3.000	4.000	4.500	8.200	11.200	15.719

CH 4560

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 3

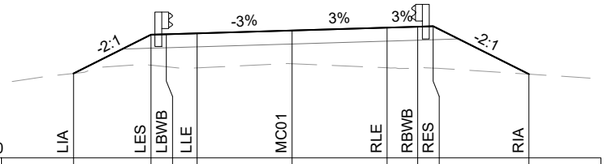
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

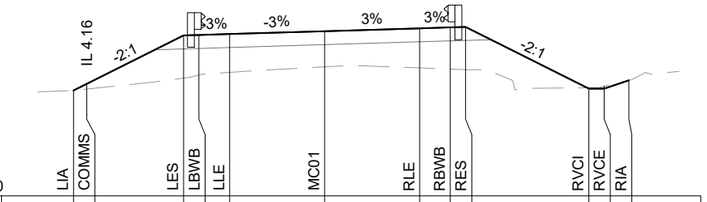
Plan No. 240458-01-303
File Ref. 240458
REV. E

A3



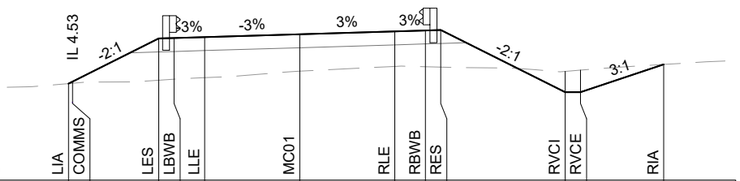
DATUM RL 3.000	LIA	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RIA
DESIGN	5.751	7.016	7.031	7.061	7.154	7.247	7.277	7.292	5.729
SURVEY	5.751	6.023	5.972	5.932	6.068	5.936	5.926	5.925	5.729
OFFSET	-7.229	-4.700	-4.200	-3.200	-0.100	3.000	4.000	4.500	7.625

CH 4660



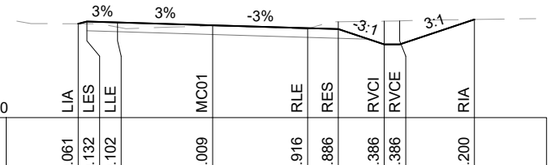
DATUM RL 1.500	LIA	COMMS	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RVCI	RVCE	RIA
DESIGN	4.936	5.153	6.732	6.747	6.777	6.870	6.963	6.993	7.008	4.998	4.998	5.266
SURVEY	4.936	4.981	5.338	5.436	5.528	5.707	5.673	5.635	5.614	5.025	5.076	5.266
OFFSET	-8.292	-7.859	-4.700	-4.200	-3.200	-0.100	3.000	4.000	4.500	8.519	9.019	9.822

CH 4640



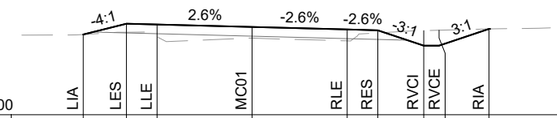
DATUM RL 2.000	LIA	COMMS	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RVCI	RVCE	RIA
DESIGN	5.147	5.213	6.619	6.634	6.664	6.757	6.850	6.880	6.895	4.866	4.866	5.771
SURVEY	5.147	5.158	5.258	5.292	5.339	5.551	5.707	5.697	5.684	5.545	5.585	5.771
OFFSET	-7.643	-7.511	-4.700	-4.200	-3.200	-0.100	3.000	4.000	4.500	8.557	9.057	11.773

CH 4620



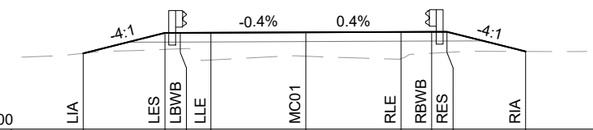
DATUM RL 6.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	9.061	9.132	9.102	9.009	8.916	8.886	8.386	8.386	9.200
SURVEY	9.061	9.060	8.949	8.992	8.896	9.123	9.143	9.151	9.200
OFFSET	-4.284	-4.000	-3.000	0.100	3.200	4.200	5.700	6.200	8.642

CH 4720



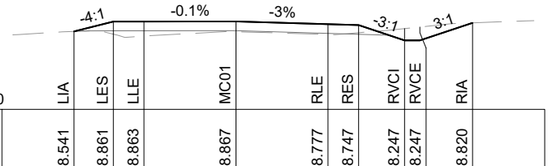
DATUM RL 5.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	8.116	8.468	8.442	8.361	8.279	8.253	7.753	7.753	8.296
SURVEY	8.116	8.189	8.048	7.996	7.908	8.167	8.241	8.254	8.296
OFFSET	-5.422	-4.013	-3.013	0.087	3.187	4.187	5.687	6.187	7.817

CH 4700



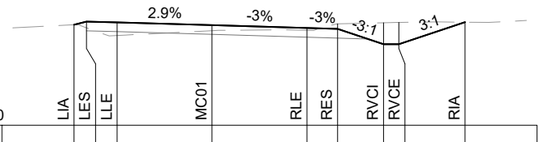
DATUM RL 4.500	LIA	LES	LBWB	LLE	MC01	RLE	RBWB	RES	RIA
DESIGN	6.971	7.638	7.640	7.643	7.655	7.667	7.670	7.672	7.031
SURVEY	6.971	7.099	7.119	6.754	6.875	6.795	6.973	7.000	7.031
OFFSET	-7.278	-4.613	-4.113	-3.113	-0.013	3.087	4.087	4.587	7.152

CH 4680



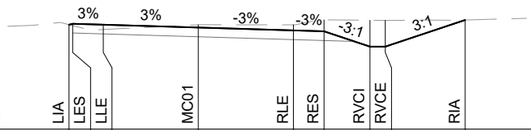
DATUM RL 6.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	8.541	8.861	8.863	8.867	8.777	8.747	8.247	8.247	8.820
SURVEY	8.541	8.451	8.390	8.530	8.443	8.499	8.633	8.685	8.820
OFFSET	-5.281	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.719

CH 4780



DATUM RL 6.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	9.277	9.379	9.350	9.261	9.169	9.139	8.639	8.639	9.358
SURVEY	9.277	9.174	8.926	9.082	9.094	9.304	9.338	9.350	9.358
OFFSET	-4.404	-4.000	-3.000	0.095	3.191	4.191	5.691	6.191	8.350

CH 4760



DATUM RL 6.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	9.406	9.435	9.405	9.312	9.219	9.189	8.689	8.689	9.557
SURVEY	9.406	9.376	9.247	9.402	9.399	9.561	9.550	9.546	9.557
OFFSET	-4.116	-4.000	-3.000	0.100	3.200	4.200	5.700	6.200	8.803

CH 4740

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 4

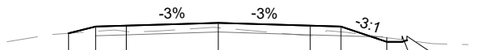
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

Plan No. 240458-01-304
File Ref. 240458
REV. E

A3

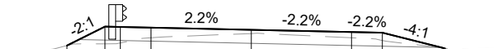


DATUM RL 5.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	8.093	8.314	8.344	8.434	8.344	8.314	7.814	7.814	7.864
SURVEY	8.093	8.157	8.153	8.274	8.020	8.138	7.950	7.884	7.864
OFFSET	-4.885	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.151

CH 4840

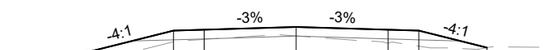
DATUM RL 5.000	LIA	LES	LLE	MC01	RLE	RES	
DESIGN	7.678	8.680	8.710	8.803	8.879	8.904	8.670
SURVEY	7.678	8.322	8.474	8.658	8.604	8.576	8.670
OFFSET	-8.172	-4.165	-3.165	-0.082	3.000	4.000	6.998

CH 4883



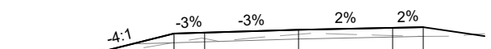
DATUM RL 5.000	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN	7.997	8.616	8.605	8.583	8.511	8.439	8.417	7.919
SURVEY	7.997	8.055	8.082	8.253	8.390	8.251	8.163	7.919
OFFSET	-5.822	-4.584	-4.084	-3.084	0.189	3.462	4.462	6.454

CH 4940



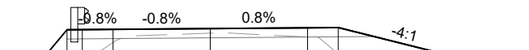
DATUM RL 4.500	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	7.243	8.099	8.129	8.219	8.129	8.099	7.543
SURVEY	7.243	7.733	7.813	7.924	7.695	7.593	7.543
OFFSET	-7.425	-4.000	-3.000	0.000	3.000	4.000	6.225

CH 4820



DATUM RL 5.000	LIA	LES	LLE	MC01	RLE	RES	
DESIGN	7.828	8.689	8.719	8.811	8.873	8.893	
SURVEY	7.828	8.391	8.524	8.662	8.622	8.593	
OFFSET	-7.575	-4.135	-3.135	-0.067	3.000	4.000	

CH 4880

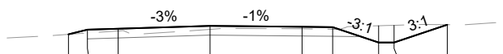


DATUM RL 4.000	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN	8.555	8.559	8.567	8.593	8.618	8.626	7.602
SURVEY	7.586	7.569	8.139	8.444	8.329	7.758	7.602
OFFSET	-4.651	-4.151	-3.151	0.022	3.196	4.196	8.293

CH 4920

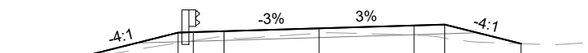
DATUM RL 5.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	7.586	8.271	8.301	8.391	8.301	8.271	7.771	7.771	8.035
SURVEY	7.586	7.828	7.905	8.016	7.862	7.889	7.964	7.992	8.035
OFFSET	-6.742	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.789

CH 4800



DATUM RL 5.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	8.459	8.614	8.644	8.734	8.704	8.695	8.195	8.195	8.773
SURVEY	8.459	8.502	8.572	8.622	8.641	8.625	8.740	8.754	8.773
OFFSET	-4.619	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.736

CH 4860



DATUM RL 5.000	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN	7.665	8.571	8.586	8.616	8.709	8.802	8.832	8.210
SURVEY	7.665	8.231	8.307	8.445	8.549	8.487	8.390	8.210
OFFSET	-8.323	-4.700	-4.200	-3.200	-0.100	3.000	4.000	6.488

CH 4900

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING · PROJECT MANAGEMENT · ENGINEERING · CERTIFICATION
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CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 5

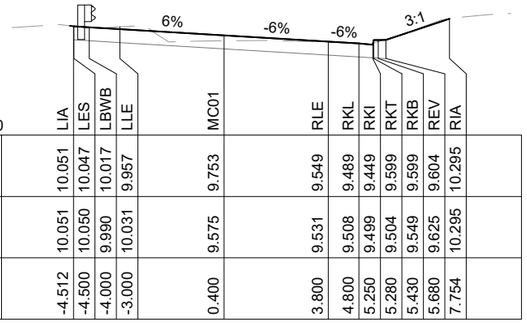
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

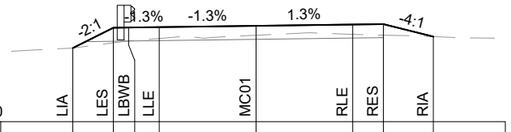
Plan No. 240458-01-305
File Ref. 240458
REV. E

A3



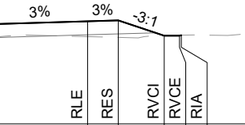
DATUM RL 6.500	LIA	LES	LBWB	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA
DESIGN	10.051	10.047	10.017	9.957	9.753	9.549	9.489	9.449	9.599	9.599	9.604	10.295
SURVEY	10.051	10.050	9.990	10.031	9.575	9.531	9.508	9.499	9.504	9.549	9.625	10.295
OFFSET	-4.512	-4.500	-4.000	-3.000	0.400	3.800	4.800	5.250	5.280	5.430	5.680	7.754

CH 5000



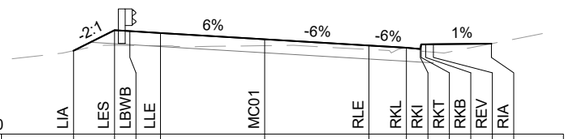
DATUM RL 8.000	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN	10.403	11.062	11.069	11.083	11.125	11.167	11.181	10.773
SURVEY	10.403	10.573	10.629	10.713	10.818	10.847	10.823	10.773
OFFSET	-5.982	-4.663	-4.163	-3.163	-0.008	3.147	4.147	5.776

CH 5060



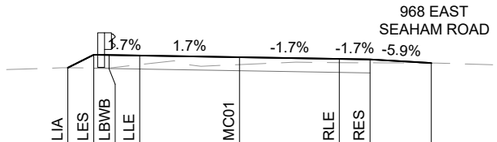
DATUM RL 8.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	11.185	11.628	11.658	11.751	11.844	11.874	11.374	11.374	11.393
SURVEY	11.185	11.262	11.303	11.324	11.345	11.321	11.380	11.392	11.393
OFFSET	-5.970	-4.200	-3.200	-0.100	3.000	4.000	5.500	6.000	6.057

CH 5120



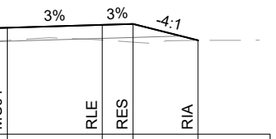
DATUM RL 6.000	LIA	LES	LBWB	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA
DESIGN	8.718	9.387	9.357	9.297	9.093	8.889	8.815	8.775	8.925	8.925	8.930	8.949
SURVEY	8.718	8.896	8.891	8.881	8.883	8.760	8.828	8.716	8.706	8.691	8.672	8.949
OFFSET	-5.837	-4.500	-4.000	-3.000	0.400	3.800	5.023	5.473	5.503	5.653	5.903	7.794

CH 4980



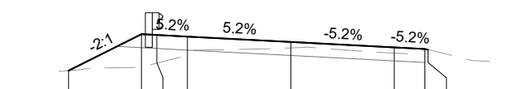
DATUM RL 8.000	LIA	LES	LBWB	LLE	MC01	RLE	RES
DESIGN	10.538	10.961	10.953	10.936	10.882	10.828	10.811	10.694
SURVEY	10.538	10.534	10.531	10.640	10.642	10.705	10.700	10.694
OFFSET	-5.442	-4.596	-4.096	-3.096	0.159	3.414	4.414	6.414

CH 5040



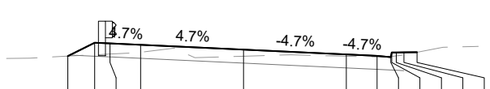
DATUM RL 8.000	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	10.786	11.349	11.379	11.472	11.565	11.595	11.064
SURVEY	10.786	10.918	10.967	11.057	11.069	11.004	11.064
OFFSET	-6.452	-4.200	-3.200	-0.100	3.000	4.000	6.121

CH 5100



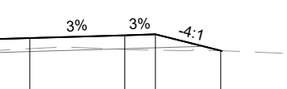
DATUM RL 5.500	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN	7.730	8.920	8.894	8.842	8.667	8.491	8.439	8.415
SURVEY	7.730	7.848	7.977	8.283	8.475	8.304	8.411	8.415
OFFSET	-6.898	-4.518	-4.018	-3.018	0.356	3.729	4.729	4.827

CH 4960



DATUM RL 7.500	LIA	LES	LBWB	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA
DESIGN	10.206	10.643	10.620	10.573	10.417	10.260	10.214	10.174	10.324	10.324	10.329	10.333
SURVEY	10.206	10.248	10.272	10.330	10.202	10.202	10.182	10.191	10.195	10.213	10.252	10.333
OFFSET	-5.403	-4.530	-4.030	-3.030	0.326	3.681	4.681	5.131	5.161	5.311	5.561	5.986

CH 5020



DATUM RL 8.000	LIA	LES	LBWB	LLE	MC01	RLE	RES	RIA
DESIGN	10.534	11.155	11.170	11.200	11.293	11.386	11.416	10.882
SURVEY	10.534	10.691	10.730	10.807	10.949	10.923	10.901	10.882
OFFSET	-7.182	-4.700	-4.200	-3.200	-0.100	3.000	4.000	6.134

CH 5080

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
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C	90% DETAILED DESIGN	AS	01/11/24
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 6

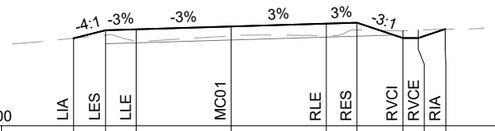
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

Plan No. 240458-01-306
File Ref. 240458
REV. E

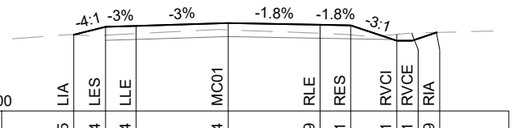
A3



DATUM RL 10.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.853	13.114	13.144	13.237	13.330	13.360	12.860	12.860	13.154
SURVEY	12.853	12.958	12.766	12.932	12.943	13.125	13.099	13.119	13.154
OFFSET	-5.245	-4.200	-3.200	-0.100	3.000	4.000	5.500	6.000	6.881

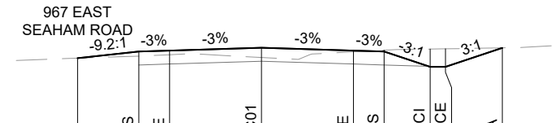
CH 5180



DATUM RL 10.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.985	13.244	13.274	13.364	13.309	13.291	12.791	12.791	13.059
SURVEY	12.985	12.973	13.022	13.142	13.031	12.981	12.997	13.038	13.059
OFFSET	-5.036	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.803

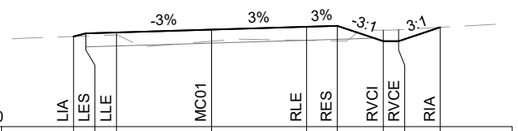
CH 5240



DATUM RL 10.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.963	13.180	13.210	13.300	13.210	13.180	12.680	12.680	13.299
SURVEY	12.963	13.026	13.075	12.982	13.168	13.221	13.257	13.266	13.299
OFFSET	-6.000	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.855

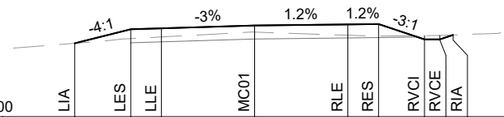
CH 5300



DATUM RL 9.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.441	12.542	12.572	12.665	12.758	12.788	12.288	12.288	12.741
SURVEY	12.441	12.455	12.489	12.285	12.314	12.297	12.648	12.658	12.741
OFFSET	-4.604	-4.200	-3.200	-0.100	3.000	4.000	5.500	6.000	7.357

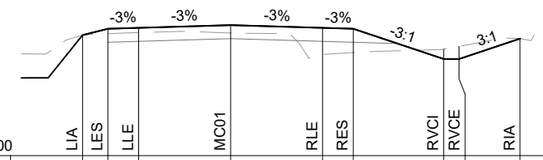
CH 5160



DATUM RL 10.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.894	13.352	13.382	13.473	13.509	13.521	13.021	13.021	13.165
SURVEY	12.894	13.047	13.100	13.259	13.155	13.132	13.143	13.150	13.165
OFFSET	-5.908	-4.079	-3.079	-0.040	3.000	4.000	5.500	6.000	6.433

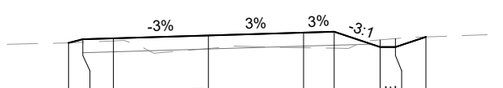
CH 5220



DATUM RL 9.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.926	13.133	13.163	13.253	13.163	13.133	12.150	12.150	12.813
SURVEY	12.926	12.974	13.010	12.996	12.297	12.360	12.470	12.559	12.813
OFFSET	-4.829	-4.000	-3.000	0.000	3.000	4.000	6.950	7.450	9.439

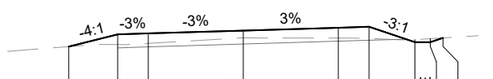
CH 5280



DATUM RL 9.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	11.909	12.026	12.056	12.149	12.242	12.272	11.772	11.772	12.102
SURVEY	11.909	11.930	11.974	11.723	11.753	11.736	12.007	12.048	12.102
OFFSET	-4.666	-4.200	-3.200	-0.100	3.000	4.000	5.500	6.000	6.992

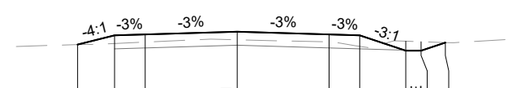
CH 5140



DATUM RL 10.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.996	13.394	13.424	13.517	13.610	13.640	13.140	13.140	13.278
SURVEY	12.996	13.061	13.100	13.283	13.272	13.258	13.222	13.252	13.278
OFFSET	-5.794	-4.200	-3.200	-0.100	3.000	4.000	5.500	6.000	6.413

CH 5200



DATUM RL 10.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	12.854	13.155	13.185	13.275	13.185	13.155	12.655	12.655	12.918
SURVEY	12.854	12.888	12.935	13.010	12.953	12.797	12.965	12.947	12.918
OFFSET	-5.205	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.791

CH 5260

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING · PROJECT MANAGEMENT · ENGINEERING · CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 7

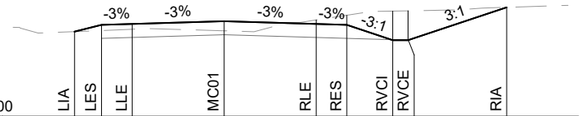
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

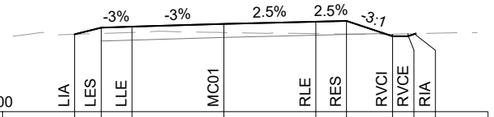
Plan No. 240458-01-307
File Ref. 240458
REV. E

A3



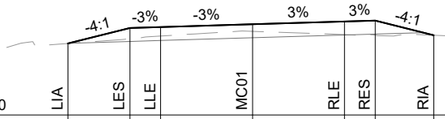
DATUM RL 10.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	13.259	13.479	13.509	13.599	13.509	13.479	12.979	12.979	14.052
SURVEY	13.259	13.295	13.337	13.285	13.639	13.794	13.928	13.937	14.052
OFFSET	-4.881	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	9.218

CH 5340



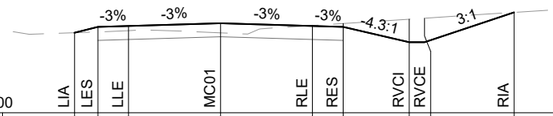
DATUM RL 11.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	14.022	14.240	14.270	14.360	14.434	14.459	13.959	13.959	14.046
SURVEY	14.022	14.050	14.082	14.079	14.043	14.032	14.024	14.041	14.046
OFFSET	-4.870	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.261

CH 5400



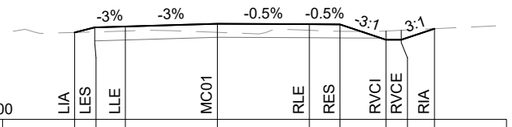
DATUM RL 11.500	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	13.834	14.339	14.369	14.459	14.549	14.579	14.101
SURVEY	13.834	13.985	14.074	14.227	14.121	14.104	14.101
OFFSET	-6.022	-4.000	-3.000	0.000	3.000	4.000	5.911

CH 5460



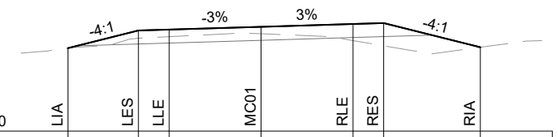
DATUM RL 10.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	13.105	13.296	13.326	13.416	13.326	13.296	12.796	12.796	13.770
SURVEY	13.105	13.132	13.174	13.102	13.341	13.406	13.547	13.580	13.770
OFFSET	-4.763	-4.000	-3.000	0.000	3.000	4.000	6.156	6.656	9.578

CH 5320



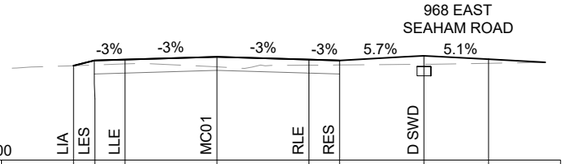
DATUM RL 11.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	13.832	13.996	14.026	14.116	14.101	14.095	13.595	13.595	13.955
SURVEY	13.832	13.850	13.878	13.837	13.903	13.872	13.880	13.904	13.955
OFFSET	-4.657	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.081

CH 5380



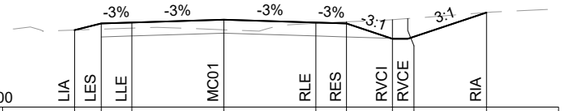
DATUM RL 11.000	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	13.705	14.280	14.310	14.400	14.490	14.520	13.731
SURVEY	13.705	14.026	14.078	14.172	13.949	13.779	13.731
OFFSET	-6.300	-4.000	-3.000	0.000	3.000	4.000	7.154

CH 5440



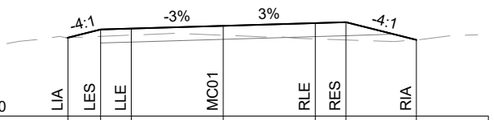
DATUM RL 10.000	LIA	LES	LLE	MC01	RLE	RES	D SWD	
DESIGN	13.078	13.248	13.278	13.368	13.278	13.248	13.402	13.291
SURVEY	13.078	13.101	13.137	13.041	13.095	13.102	13.123	13.156
OFFSET	-4.680	-4.000	-3.000	0.000	3.000	4.000	6.750	8.860

CH 5313



DATUM RL 11.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	13.512	13.729	13.759	13.849	13.759	13.729	13.229	13.229	14.084
SURVEY	13.512	13.542	13.577	13.521	13.731	13.782	13.852	13.886	14.084
OFFSET	-4.868	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.566

CH 5360



DATUM RL 11.500	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	14.057	14.323	14.353	14.443	14.533	14.563	13.988
SURVEY	14.057	14.100	14.140	14.136	14.015	13.983	13.988
OFFSET	-5.066	-4.000	-3.000	0.000	3.000	4.000	6.301

CH 5420

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 8

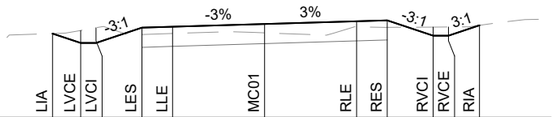
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

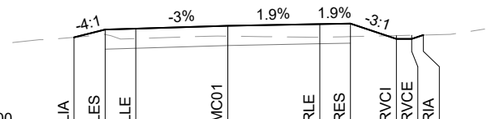
Plan No. 240458-01-308
File Ref. 240458
REV. E

A3



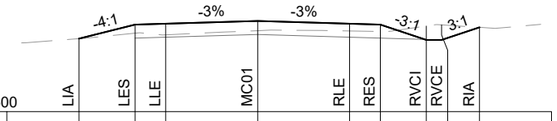
DATUM RL 12.500	LIA	LVCE	LVCI	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	15.230	14.925	14.925	15.425	15.455	15.545	15.635	15.665	15.165	15.165	15.502
SURVEY	15.230	15.333	15.422	15.200	15.234	15.255	15.455	15.435	15.445	15.448	15.502
OFFSET	-6.918	-6.000	-5.500	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.012

CH 5520



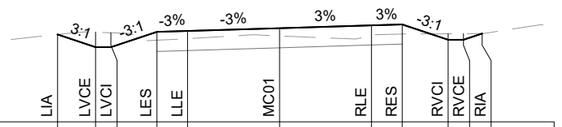
DATUM RL 13.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	16.457	16.711	16.741	16.831	16.887	16.906	16.406	16.406	16.532
SURVEY	16.457	16.550	16.416	16.493	16.457	16.480	16.513	16.524	16.532
OFFSET	-5.016	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.378

CH 5580



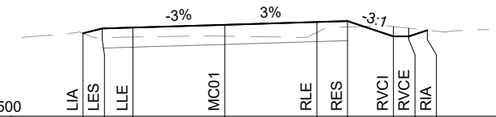
DATUM RL 14.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	16.880	17.337	17.367	17.457	17.367	17.337	16.837	16.837	17.249
SURVEY	16.880	17.058	17.005	17.141	17.133	17.115	17.290	17.330	17.249
OFFSET	-5.830	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.236

CH 5640



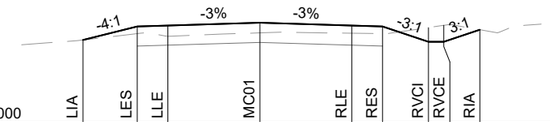
DATUM RL 12.000	LIA	LVCE	LVCI	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	14.850	14.436	14.436	14.936	14.966	15.056	15.146	15.176	14.676	14.676	14.878
SURVEY	14.850	14.925	14.906	14.663	14.712	14.804	14.841	14.865	14.873	14.875	14.878
OFFSET	-7.243	-6.000	-5.500	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.609

CH 5500



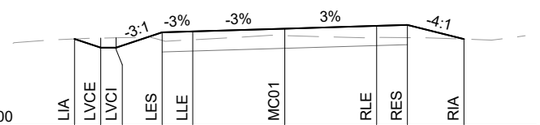
DATUM RL 13.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	16.203	16.360	16.390	16.480	16.570	16.600	16.100	16.100	16.300
SURVEY	16.203	16.062	16.079	16.112	16.229	16.408	16.424	16.368	16.300
OFFSET	-4.628	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.602

CH 5560



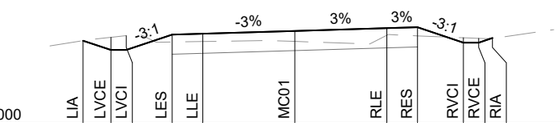
DATUM RL 14.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	16.714	17.156	17.186	17.276	17.186	17.156	16.656	16.656	17.049
SURVEY	16.714	16.922	16.835	16.947	16.934	16.922	17.119	17.192	17.049
OFFSET	-5.771	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.178

CH 5620



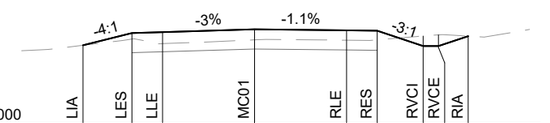
DATUM RL 11.500	LIA	LVCE	LVCI	LES	LLE	MC01	RLE	RES	RIA
DESIGN	14.343	14.057	14.057	14.557	14.587	14.677	14.767	14.797	14.336
SURVEY	14.343	14.369	14.380	14.296	14.315	14.450	14.399	14.385	14.336
OFFSET	-6.858	-6.000	-5.500	-4.000	-3.000	0.000	3.000	4.000	5.847

CH 5480



DATUM RL 13.000	LIA	LVCE	LVCI	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	15.721	15.417	15.417	15.917	15.947	16.037	16.127	16.157	15.657	15.657	15.806
SURVEY	15.721	15.830	15.884	15.677	15.693	15.697	15.896	15.876	15.815	15.795	15.806
OFFSET	-6.909	-6.000	-5.500	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.447

CH 5540



DATUM RL 14.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	16.570	16.970	17.000	17.090	17.056	17.045	16.545	16.545	16.868
SURVEY	16.570	16.773	16.624	16.747	16.735	16.747	16.872	16.910	16.868
OFFSET	-5.599	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.968

CH 5600

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 9

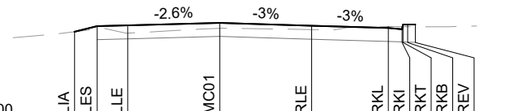
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

Plan No. 240458-01-309
File Ref. 240458
REV. E

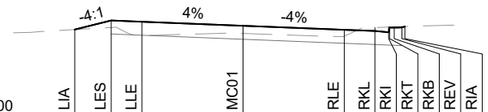
A3



DATUM RL 14.500

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV
DESIGN	17.349	17.533	17.559	17.637	17.547	17.472	17.432	17.582	17.582	17.587
SURVEY	17.349	17.441	17.302	17.461	17.421	17.519	17.517	17.517	17.516	17.515
OFFSET	-4.736	-4.000	-3.000	0.000	3.000	5.500	5.950	5.980	6.130	6.380

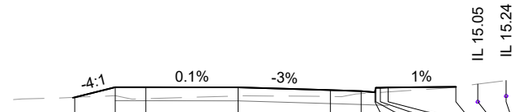
CH 5680



DATUM RL 14.000

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA
DESIGN	16.795	17.092	17.052	16.920	16.788	16.748	16.708	16.858	16.858	16.863	16.896
SURVEY	16.795	16.862	16.600	16.668	16.580	16.861	16.877	16.878	16.883	16.892	16.896
OFFSET	-5.191	-4.000	-3.000	0.300	3.600	4.600	5.050	5.080	5.230	5.480	5.578

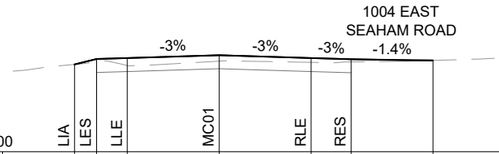
CH 5740



DATUM RL 12.500

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA	COMMS	COMMS
DESIGN	15.147	15.477	15.475	15.471	15.381	15.351	15.311	15.461	15.461	15.466	15.488		
SURVEY	15.147	15.199	15.101	15.191	15.172	15.266	15.296	15.297	15.307	15.324	15.488	15.578	15.694
OFFSET	-5.318	-4.000	-3.000	0.011	3.022	4.022	4.472	4.502	4.652	4.902	7.113	7.828	8.753

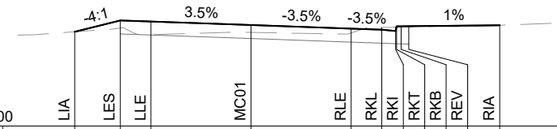
CH 5800



DATUM RL 14.500

	LIA	LES	LLE	MC01	RLE	RES	
DESIGN	17.342	17.522	17.552	17.642	17.552	17.513	17.476
SURVEY	17.342	17.424	17.305	17.451	17.411	17.426	17.474
OFFSET	-4.720	-4.000	-3.000	0.000	3.000	4.300	6.974

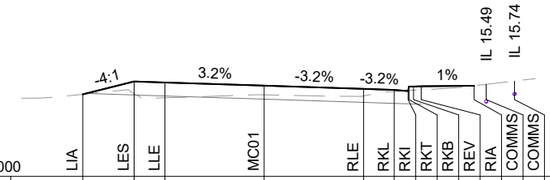
CH 5676



DATUM RL 14.000

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA
DESIGN	17.073	17.444	17.408	17.292	17.177	17.141	17.101	17.251	17.251	17.256	17.286
SURVEY	17.073	17.195	16.975	17.054	17.035	17.215	17.222	17.223	17.225	17.229	17.286
OFFSET	-5.484	-4.000	-3.000	0.266	3.532	4.532	4.982	5.012	5.162	5.412	8.378

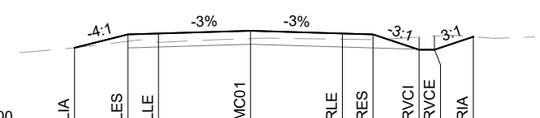
CH 5720



DATUM RL 13.000

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA	COMMS	COMMS
DESIGN	15.674	16.094	16.061	15.957	15.852	15.820	15.780	15.930	15.930	15.935	15.952		
SURVEY	15.674	15.694	15.561	15.660	15.619	15.769	15.796	15.798	15.806	15.821	15.952	15.999	16.107
OFFSET	-5.677	-4.000	-3.000	0.242	3.484	4.484	4.934	4.964	5.114	5.364	7.089	7.484	8.406

CH 5780



DATUM RL 14.500

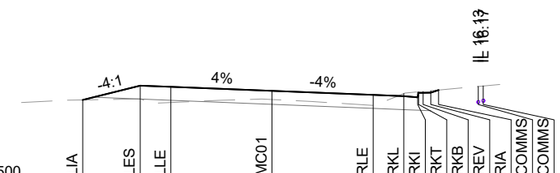
	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	17.055	17.490	17.520	17.610	17.520	17.490	16.990	16.990	17.412
SURVEY	17.055	17.264	17.238	17.354	17.334	17.321	17.403	17.434	17.412
OFFSET	-5.739	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.269

CH 5660

DATUM RL 14.500

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	COMMS	RIA
DESIGN	17.492	17.551	17.546	17.531	17.440	17.410	17.370	17.520	17.520	17.525	17.590	17.605
SURVEY	17.492	17.429	17.240	17.360	17.335	17.384	17.397	17.398	17.403	17.410	17.545	17.605
OFFSET	-4.235	-4.000	-3.000	0.035	3.071	4.071	4.521	4.551	4.701	4.951	11.382	12.908

CH 5700



DATUM RL 13.500

	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKT	RKB	REV	RIA	COMMS	COMMS
DESIGN	16.147	16.615	16.575	16.443	16.311	16.271	16.231	16.381	16.381	16.386	16.470		
SURVEY	16.147	16.176	16.064	16.160	15.968	16.355	16.408	16.410	16.424	16.447	16.470	16.588	16.603
OFFSET	-5.872	-4.000	-3.000	0.300	3.600	4.600	5.050	5.080	5.230	5.480	5.732	7.029	7.191

CH 5760

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 10

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

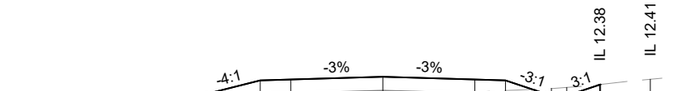
Datum: A.H.D.

Plan No. 240458-01-310
File Ref. 240458
REV. E

A3

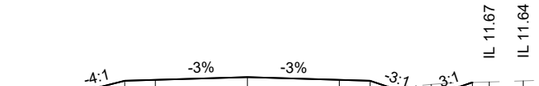
DATUM RL 11.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	RIA	COMMS
DESIGN	14.410	14.379	14.409	14.499	14.409	14.379	13.879	13.879	14.462	14.596	
SURVEY	14.410	14.419	14.287	14.172	14.173	14.229	14.313	14.347	14.546	14.596	14.683
OFFSET	-4.093	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.747	8.150	8.854

CH 5840



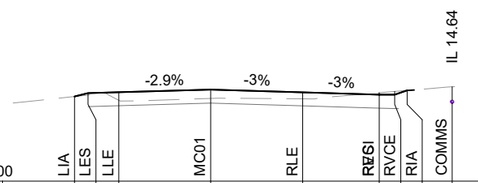
DATUM RL 10.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	RIA	COMMS
DESIGN	12.503	12.992	13.022	13.112	13.022	12.992	12.492	12.492	12.850	12.860	
SURVEY	12.503	12.547	12.527	12.648	12.598	12.663	12.729	12.764	12.857	12.860	13.030
OFFSET	-5.954	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.074	7.105	8.724

CH 5900



DATUM RL 9.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS	COMMS
DESIGN	11.718	12.152	12.182	12.272	12.182	12.152	11.652	11.652	12.099		
SURVEY	11.718	11.886	11.807	11.889	11.860	11.874	11.992	12.033	12.099	12.113	
OFFSET	-5.735	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.339	7.887	8.997

CH 5940

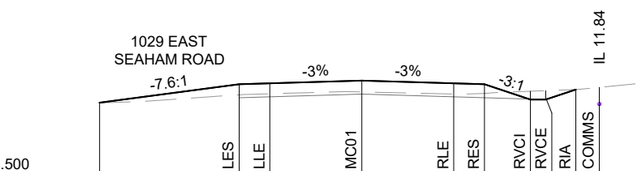


DATUM RL 12.000	LIA	LES	LLE	MC01	RLE	RVCI	RVCE	RIA	COMMS
DESIGN	14.757	14.868	14.897	14.985	14.895	14.820	14.820	14.956	
SURVEY	14.757	14.804	14.638	14.694	14.682	14.881	14.922	14.956	15.076
OFFSET	-4.443	-4.000	-3.000	0.000	3.000	5.500	6.000	6.408	7.876

CH 5820

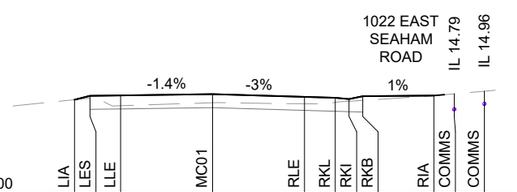
DATUM RL 10.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	RIA	COMMS
DESIGN	13.197	13.437	13.467	13.557	13.467	13.437	12.929	12.929	13.412	13.493	
SURVEY	13.197	13.238	12.942	13.062	13.066	13.148	13.276	13.329	13.473	13.493	13.596
OFFSET	-4.962	-4.000	-3.000	0.000	3.000	4.000	5.526	6.026	7.474	7.719	8.719

CH 5880



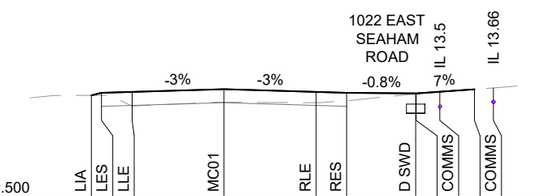
DATUM RL 9.500	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS
DESIGN	11.839	12.438	12.468	12.558	12.468	12.438	11.938	11.938	12.265
SURVEY	11.838	12.093	12.128	12.187	12.118	12.140	12.209	12.228	12.265
OFFSET	-8.554	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.981

CH 5926



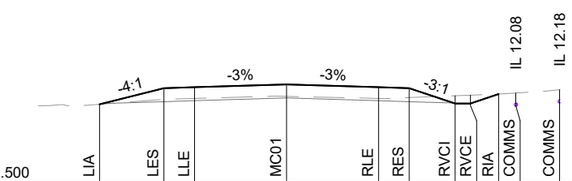
DATUM RL 12.000	LIA	LES	LLE	MC01	RLE	RKL	RKI	RKB	RIA	COMMS	COMMS
DESIGN	15.046	15.172	15.186	15.228	15.138	15.108	15.068	15.158	15.181		
SURVEY	15.046	15.098	14.850	14.946	14.912	14.958	14.995	15.022	15.181	15.238	15.323
OFFSET	-4.504	-4.000	-3.000	0.000	3.000	4.000	4.450	4.900	7.219	7.882	8.863

CH 5810



DATUM RL 10.500	LIA	LES	LLE	MC01	RLE	RES	D SWD	COMMS	COMMS
DESIGN	13.817	13.900	13.930	14.020	13.930	13.900	13.882	13.882	
SURVEY	13.817	13.819	13.470	13.595	13.578	13.636	13.865	13.866	13.934	14.015	
OFFSET	-4.330	-4.000	-3.000	0.000	3.000	4.000	6.250	6.267	7.040	8.166	8.786

CH 5860



DATUM RL 9.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS	COMMS
DESIGN	12.039	12.564	12.594	12.684	12.594	12.564	12.064	12.064	12.370		
SURVEY	12.039	12.194	12.228	12.294	12.228	12.256	12.316	12.335	12.370	12.403	12.512
OFFSET	-6.100	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.919	7.477	8.907

CH 5920

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 11

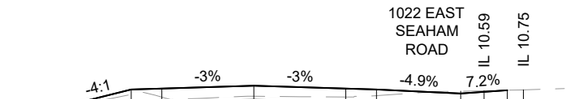
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

Plan No. 240458-01-311
File Ref. 240458
REV. E

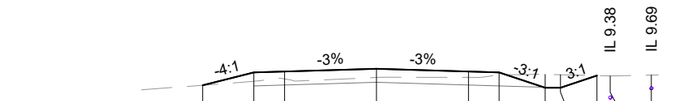
A3



DATUM RL 7.500

	LIA	LES	LLE	MC01	RLE	RES	COMMS	COMMS
DESIGN	10.593	11.110	11.140	11.230	11.140	11.110	10.976	11.030	11.084
SURVEY	10.593	10.948	10.861	10.888	10.864	10.906	11.052	11.066	11.084	11.097
OFFSET	-6.066	-4.000	-3.000	0.000	3.000	4.000	6.750	7.509	8.267	8.794

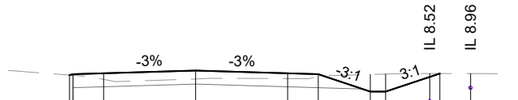
CH 5992



DATUM RL 7.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS	COMMS
DESIGN	9.731	10.148	10.178	10.268	10.178	10.148	9.648	9.648	10.045		
SURVEY	9.731	9.861	9.936	9.982	9.985	10.073	10.084	10.073	10.045	10.035	10.063
OFFSET	-5.669	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.191	7.624	8.966

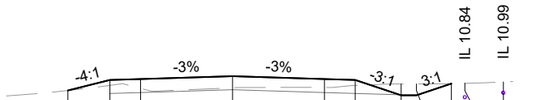
CH 6040



DATUM RL 6.000

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	RIA	COMMS
DESIGN	9.317	9.346	9.376	9.466	9.376	9.346	8.780	8.780	9.259	9.369	
SURVEY	9.317	9.308	9.178	9.192	9.202	9.289	9.337	9.351	9.370	9.369	9.367
OFFSET	-4.116	-4.000	-3.000	0.000	3.000	4.000	5.699	6.199	7.636	7.966	8.970

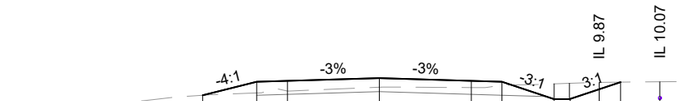
CH 6080



DATUM RL 8.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS	COMMS
DESIGN	11.007	11.350	11.380	11.470	11.380	11.350	10.850	10.850	11.230		
SURVEY	11.007	11.173	11.075	11.094	11.104	11.173	11.218	11.219	11.230	11.241	11.285
OFFSET	-5.372	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.139	7.577	8.835

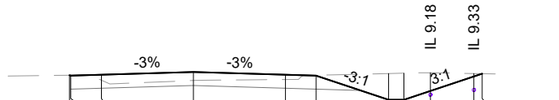
CH 5980



DATUM RL 7.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	RIA	COMMS
DESIGN	10.108	10.549	10.579	10.669	10.579	10.549	9.982	9.982	10.304	10.537	
SURVEY	10.108	10.184	10.247	10.372	10.359	10.442	10.480	10.497	10.526	10.537	10.549
OFFSET	-5.762	-4.000	-3.000	0.000	3.000	4.000	5.701	6.201	7.168	7.868	9.148

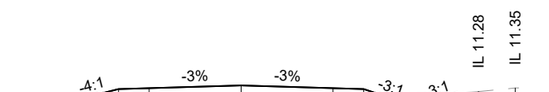
CH 6020



DATUM RL 6.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	COMMS	RIA
DESIGN	9.762	9.747	9.777	9.867	9.777	9.747	8.959	8.959	9.247	9.720	9.811
SURVEY	9.762	9.762	9.598	9.589	9.621	9.758	9.816	9.828	9.840	9.816	9.811
OFFSET	-4.044	-4.000	-3.000	0.000	3.000	4.000	6.365	6.865	7.730	9.149	9.421

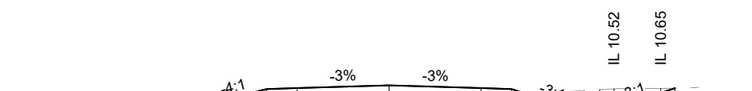
CH 6060



DATUM RL 8.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS	COMMS
DESIGN	11.338	11.751	11.781	11.871	11.781	11.751	11.251	11.251	11.603		
SURVEY	11.338	11.544	11.326	11.463	11.474	11.527	11.580	11.583	11.603	11.671	11.788
OFFSET	-5.651	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.055	7.744	8.943

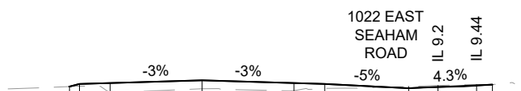
CH 5960



DATUM RL 7.500

	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	COMMS	COMMS	RIA
DESIGN	10.430	10.950	10.980	11.070	10.980	10.950	10.160	10.160	10.316	10.824	10.979
SURVEY	10.430	10.777	10.649	10.744	10.714	10.783	10.896	10.927	10.956	10.970	10.979
OFFSET	-6.080	-4.000	-3.000	0.000	3.000	4.000	6.368	6.868	7.337	8.860	9.324

CH 6000



DATUM RL 6.000

	LIA	LES	LLE	MC01	RLE	RES	COMMS	COMMS
DESIGN	9.826	9.907	9.937	10.027	9.937	9.907	9.770	9.811	9.864	9.887
SURVEY	9.826	9.835	9.633	9.754	9.690	9.778	9.827	9.858	9.887	9.893
OFFSET	-4.326	-4.000	-3.000	0.000	3.000	4.000	6.742	7.694	8.953	9.473

CH 6052

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION

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HUNTER
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ABN: 26 134 067 842
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 12

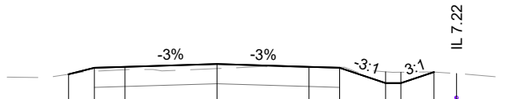
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

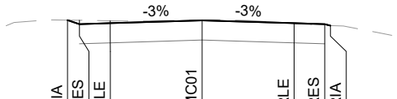
Plan No. 240458-01-312
File Ref. 240458
REV. E

A3



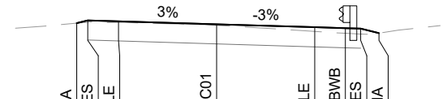
DATUM RL 4.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS
DESIGN	7.933	8.144	8.174	8.264	8.174	8.144	7.644	7.644	8.003	
SURVEY	7.933	8.029	8.079	8.116	8.166	8.159	8.013	7.999	8.003	7.957
OFFSET	-4.844	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.077	7.815

CH 6140



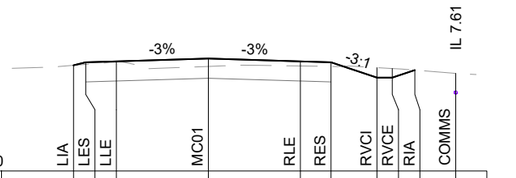
DATUM RL 5.000	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	8.024	7.892	7.922	8.012	7.922	7.892	7.846
SURVEY	8.024	8.018	8.002	8.028	7.913	7.853	7.846
OFFSET	-4.393	-4.000	-3.000	0.000	3.000	4.000	4.187

CH 6200



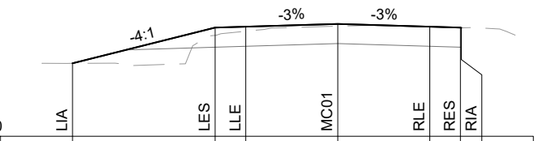
DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RBWB	RES	RIA
DESIGN	10.061	10.151	10.121	10.025	9.929	9.899	9.884	9.735
SURVEY	10.061	10.094	10.086	9.990	9.793	9.733	9.708	9.735
OFFSET	-4.360	-4.000	-3.000	0.200	3.400	4.400	4.900	5.496

CH 6260



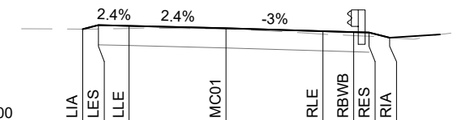
DATUM RL 5.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS
DESIGN	8.445	8.545	8.575	8.665	8.575	8.545	8.045	8.045	8.290	
SURVEY	8.445	8.476	8.554	8.409	8.424	8.409	8.371	8.342	8.290	8.183
OFFSET	-4.399	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	6.735	8.069

CH 6120



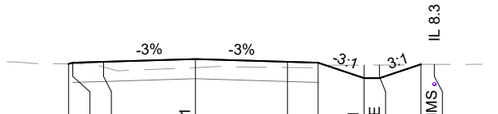
DATUM RL 4.000	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	6.377	7.541	7.571	7.661	7.571	7.541	7.534
SURVEY	6.377	7.287	7.423	7.587	7.563	7.535	7.534
OFFSET	-8.655	-4.000	-3.000	0.000	3.000	4.000	4.029

CH 6180



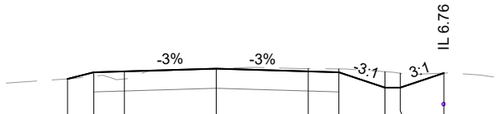
DATUM RL 6.500	LIA	LES	LLE	MC01	RLE	RBWB	RES	RIA
DESIGN	9.559	9.687	9.662	9.585	9.490	9.460	9.445	9.277
SURVEY	9.559	9.561	9.579	9.563	9.393	9.346	9.326	9.277
OFFSET	-4.511	-4.000	-3.000	0.163	3.325	4.325	4.825	5.498

CH 6240



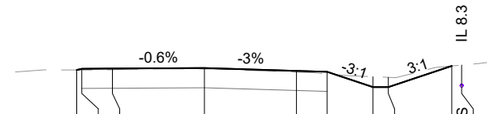
DATUM RL 6.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS
DESIGN	8.910	8.945	8.975	9.065	8.975	8.945	8.445	8.445	8.897	
SURVEY	8.910	8.908	8.809	8.789	8.792	8.809	8.869	8.870	8.897	8.893
OFFSET	-4.143	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.354	7.791

CH 6100



DATUM RL 4.000	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA
DESIGN	7.529	7.743	7.773	7.863	7.773	7.743	7.243	7.243	7.717
SURVEY	7.529	7.614	7.527	7.861	7.864	7.854	7.765	7.714	7.717
OFFSET	-4.855	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	7.422

CH 6160



DATUM RL 5.500	LIA	LES	LLE	MC01	RLE	RES	RVCI	RVCE	RIA	COMMS
DESIGN	8.763	8.804	8.810	8.827	8.737	8.707	8.207	8.207	8.895	
SURVEY	8.763	8.763	8.775	8.797	8.695	8.636	8.546	8.525	8.895	8.925
OFFSET	-4.164	-4.000	-3.000	0.000	3.000	4.000	5.500	6.000	8.067	8.391

CH 6220

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 13

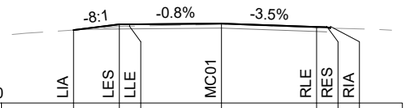
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

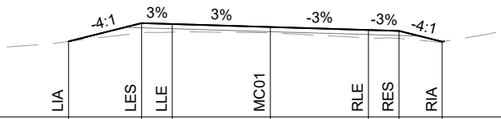
Plan No. 240458-01-313
File Ref. 240458
REV. E

A3



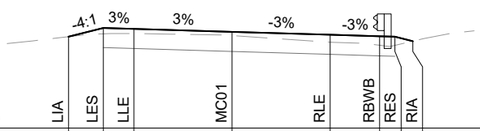
DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	9.379	9.566	9.569	9.594	9.484	9.472	9.444
SURVEY	9.379	9.496	9.506	9.569	9.458	9.447	9.444
OFFSET	-3.859	-2.363	-2.030	0.970	4.070	4.403	4.518

CH 6320



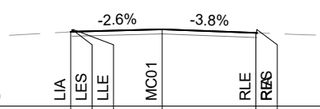
DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RES	RIA
DESIGN	9.459	10.054	10.024	9.928	9.832	9.802	9.451
SURVEY	9.459	9.736	9.762	9.742	9.574	9.557	9.451
OFFSET	-6.383	-4.000	-3.000	0.200	3.400	4.400	5.805

CH 6300



DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RBWB	RES	RIA
DESIGN	9.981	10.266	10.236	10.140	10.044	9.995	9.980	9.835
SURVEY	9.981	10.075	10.083	10.018	9.799	9.702	9.698	9.835
OFFSET	-5.136	-4.000	-3.000	0.200	3.400	5.012	5.512	6.094

CH 6280



DATUM RL 7.000	LIA	LES	LLE	MC01	RLE	RES
DESIGN	9.422	9.428	9.428	9.504	9.388	9.386
SURVEY	9.422	9.425	9.426	9.504	9.388	9.387
OFFSET	-1.686	-1.641	-1.609	1.300	4.355	4.387

CH 6329.044

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
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HUNTER P: 02 4966 8388
ABN: 26 134 067 842
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

MC01 CROSS SECTION SHEET 14

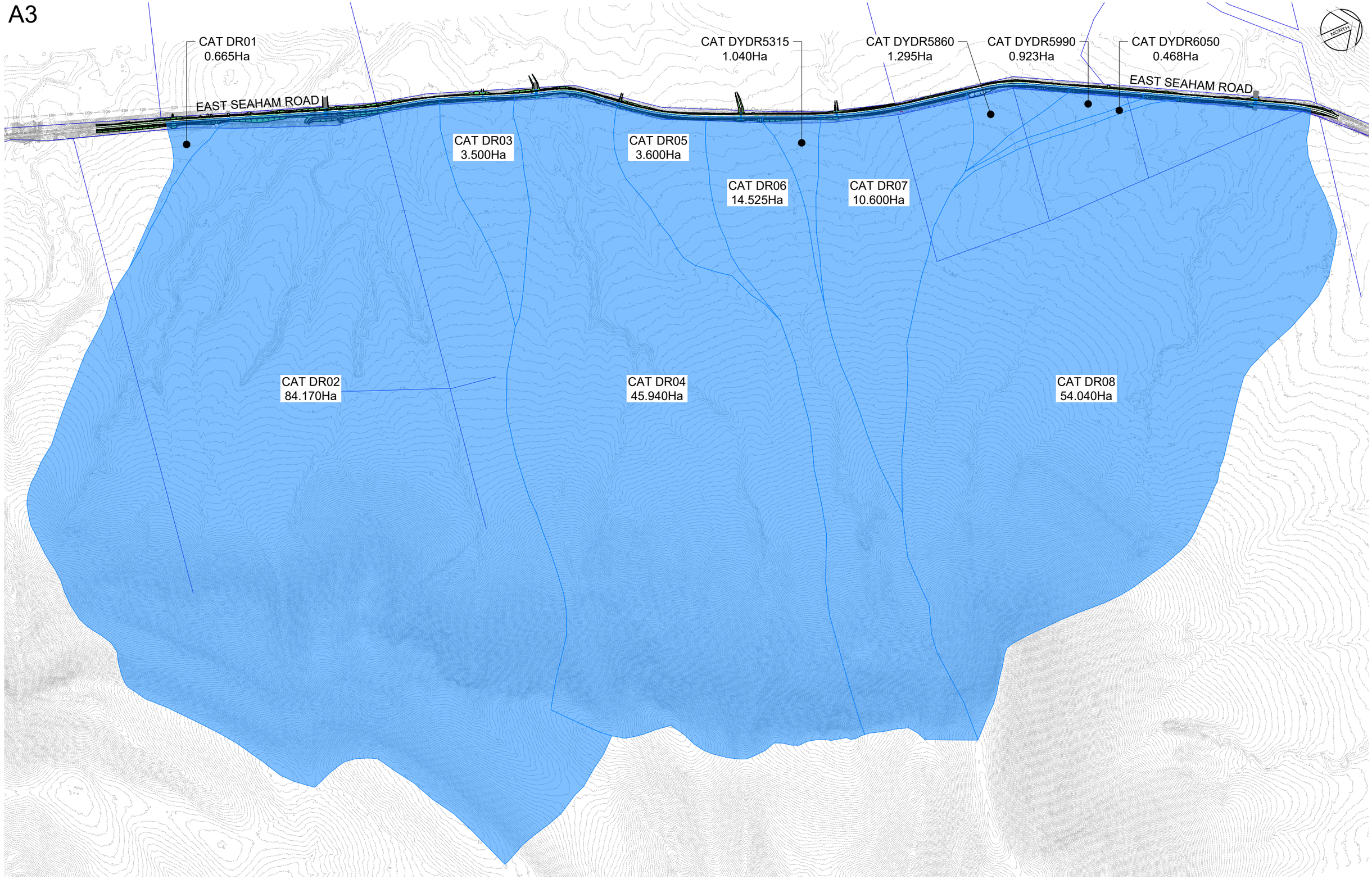
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -
Horiz. -
Vert. -
X-Sect. 1:200

Datum: A.H.D.

Plan No. 240458-01-314
File Ref. 240458
REV. E

A3



PLAN
SCALE 1:6000

60 0 60 120 180 240 300
METRES
1:6000

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
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BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION

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HUNTER
P: 02 4966 8388
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

DRAINAGE CATCHMENT PLAN

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:6000
Horiz. -
Vert. -
X-Sect. -

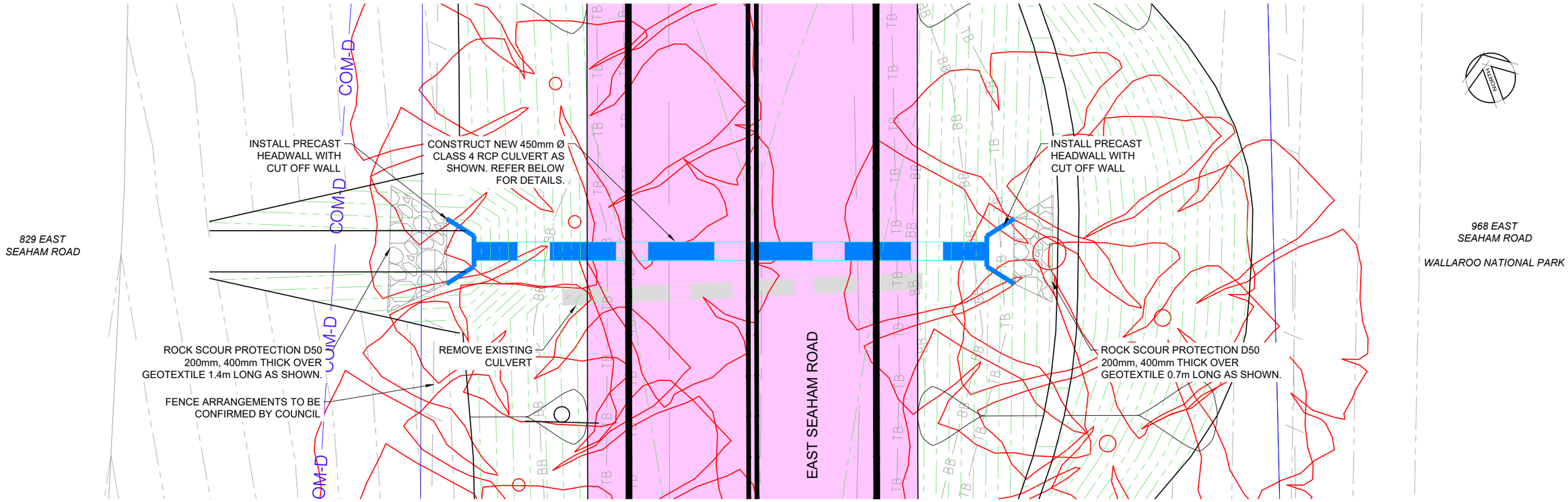
Datum: A.H.D.

Plan No.
240458-01-501

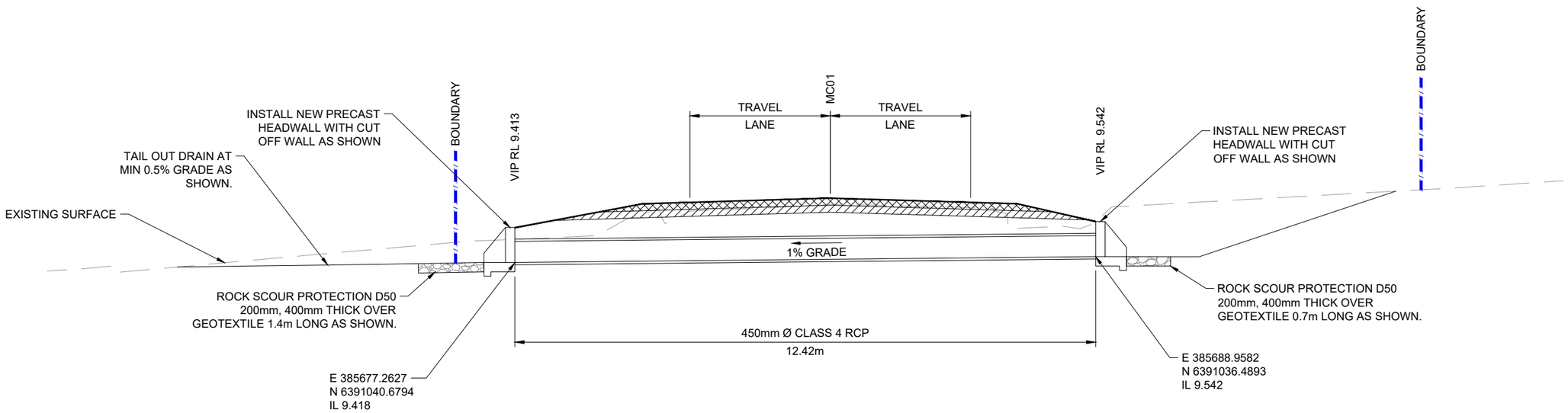
File Ref.
240458

REV.
E

A3



PLAN - DR01 CULVERT - CH 4284
SCALE 1:100



SECTION - DR01 CULVERT- CH 4284
SCALE 1:100

1 0 1 2 3 4 5
METRES
1:100

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
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HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR01

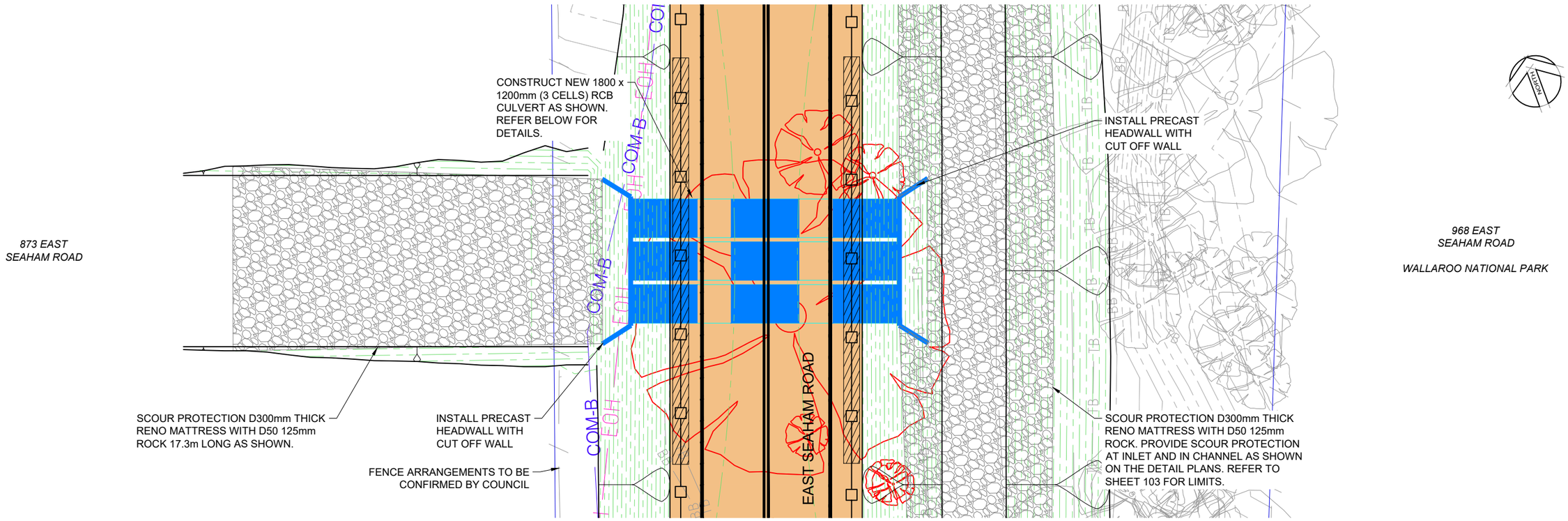
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:100
Horiz. -
Vert. -
X-Sect. 1:100

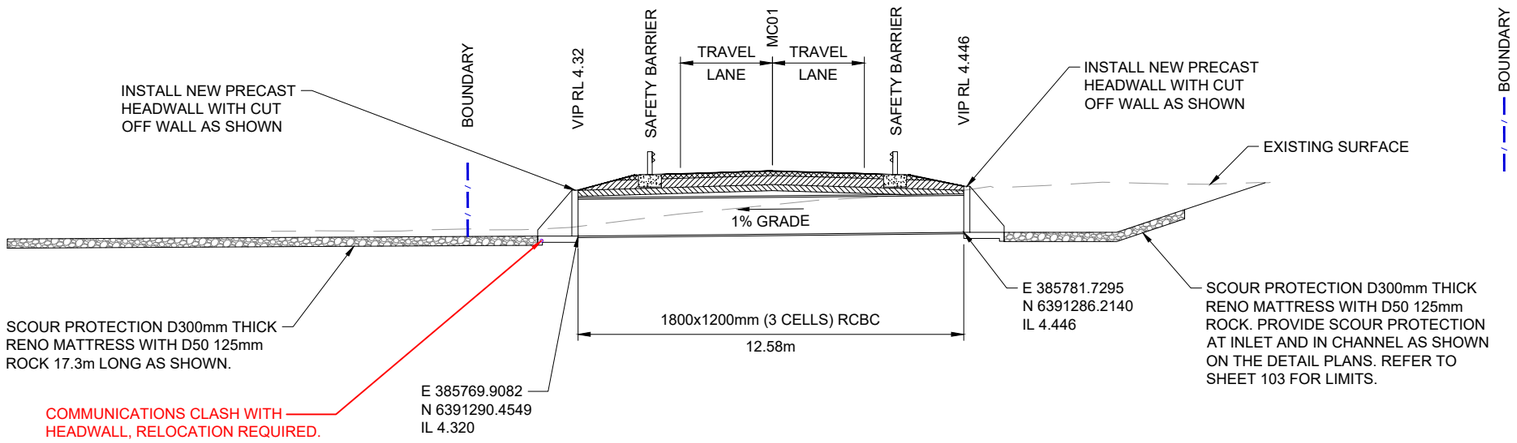
Datum: A.H.D.

Plan No. 240458-01-511
File Ref. 240458
REV. E

A3



PLAN - DR02 CULVERT - CH 4550
SCALE 1:200



SECTION - DR02 CULVERT - CH 4550
SCALE 1:200

2 0 2 4 6 8 10
METRES
1:200

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
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SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR02

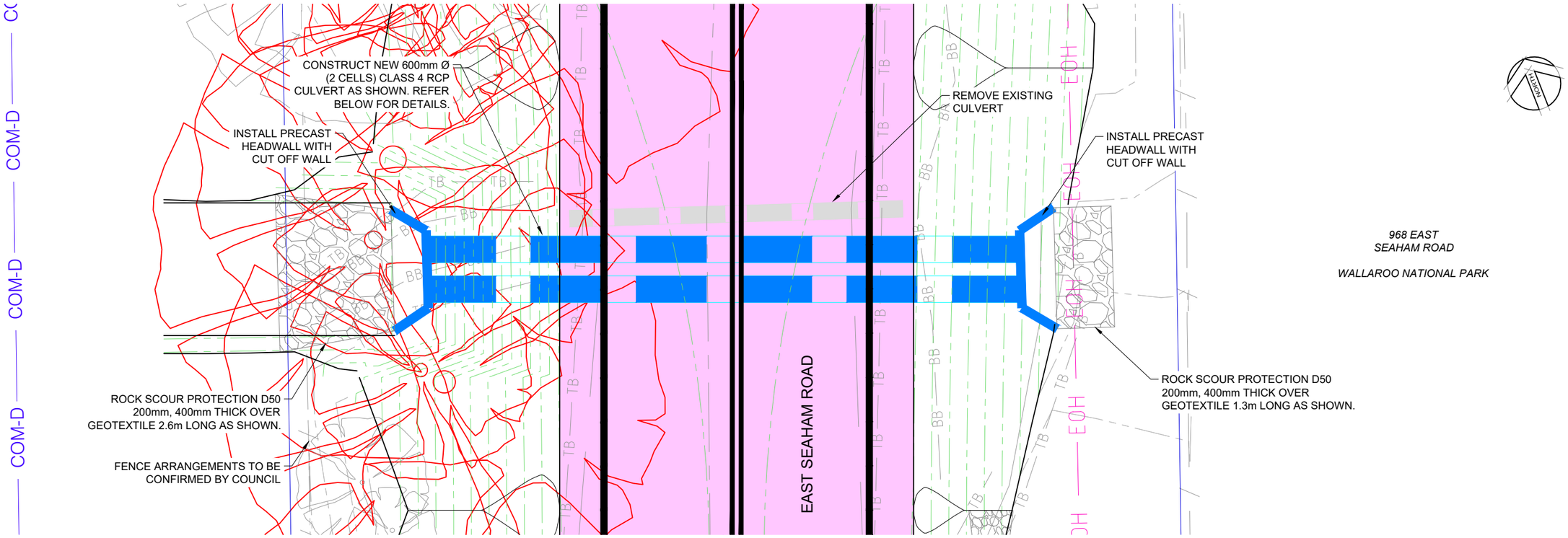
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:200
Horiz. -
Vert. -
X-Sect. 1:200

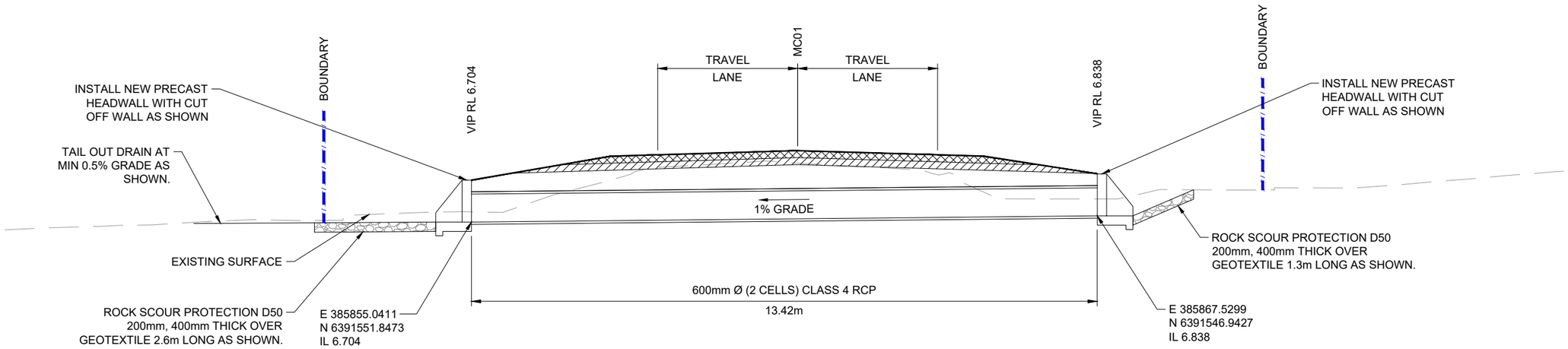
Datum: A.H.D.

Plan No. 240458-01-512
File Ref. 240458
REV. E

A3



PLAN - DR03 CULVERT - CH 4825
SCALE 1:100



SECTION - DR03 CULVERT - CH 4825
SCALE 1:100

1 0 1 2 3 4 5
METRES
1:100

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
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ABN: 26 134 067 842
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mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR03

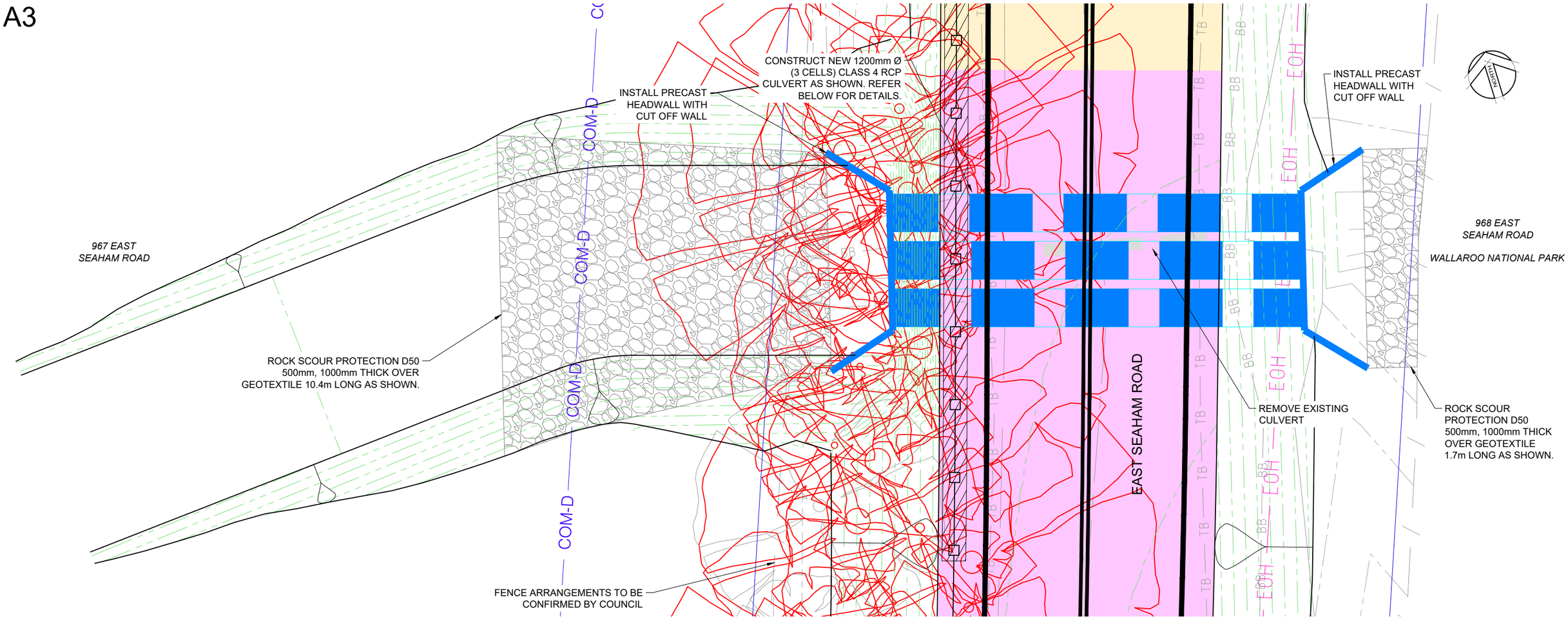
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:100
Horiz. -
Vert. -
X-Sect. 1:100

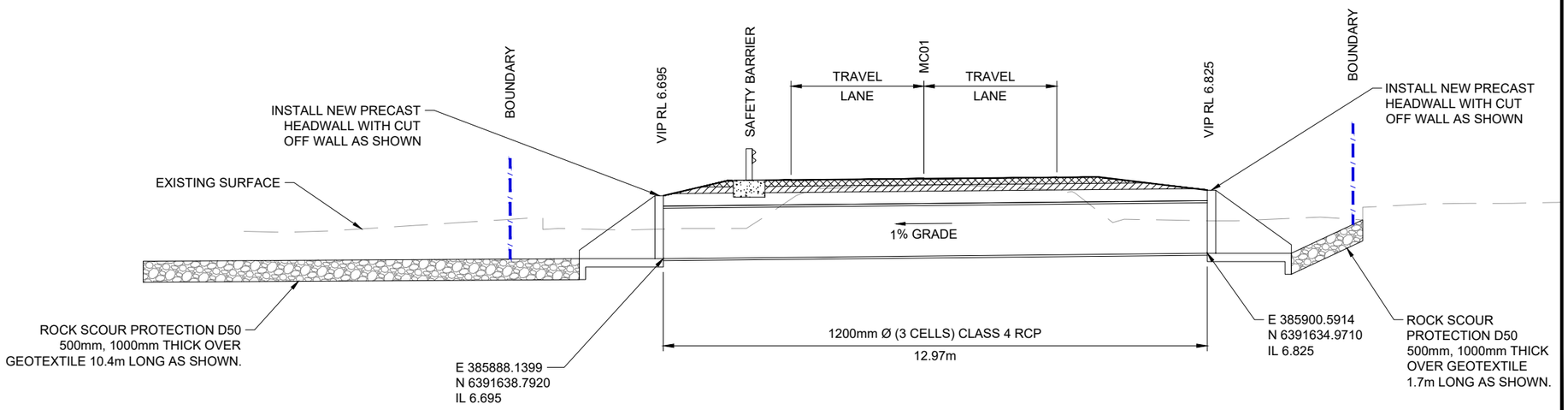
Datum: A.H.D.

Plan No. 240458-01-513
File Ref. 240458
REV. E

A3



PLAN - DR04 CULVERT - CH 4920
SCALE 1:125



SECTION - DR04 CULVERT - CH 4920
SCALE 1:125

1.25 0 1.25 2.50 3.75 5.00 6.25 1:125
METRES

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR04

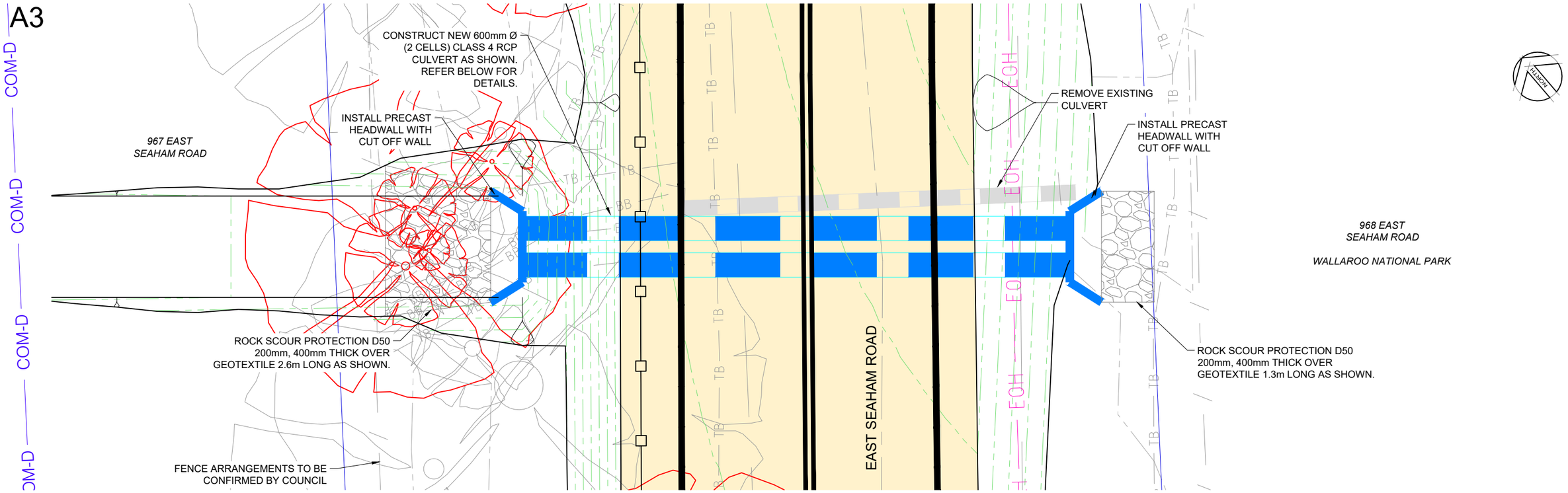
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:125
Horiz. -
Vert. -
X-Sect. 1:125

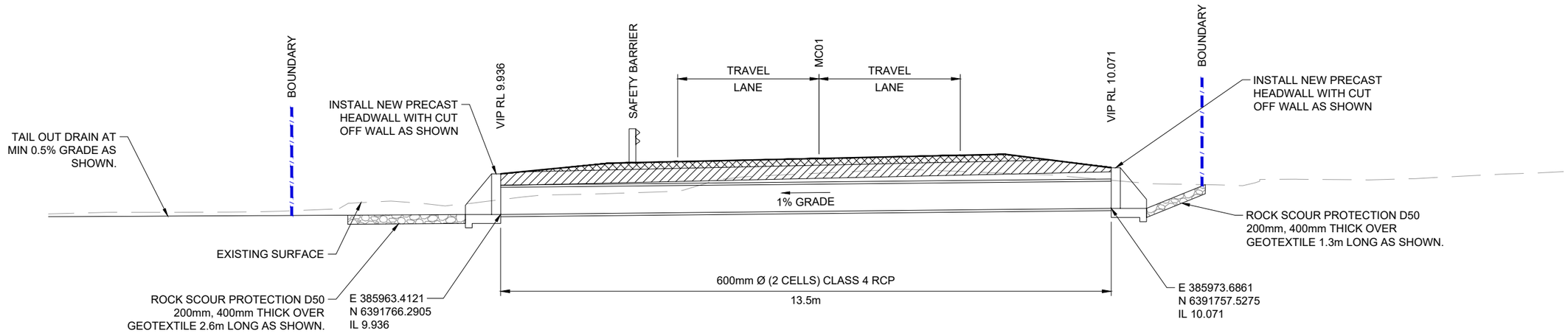
Datum: A.H.D.

Plan No. 240458-01-514
File Ref. 240458
REV. E

A3



PLAN - DR05 CULVERT - CH 5066
SCALE 1:100



SECTION - DR05 CULVERT - CH 5066
SCALE 1:100

1 0 1 2 3 4 5
METRES
1:100

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR05

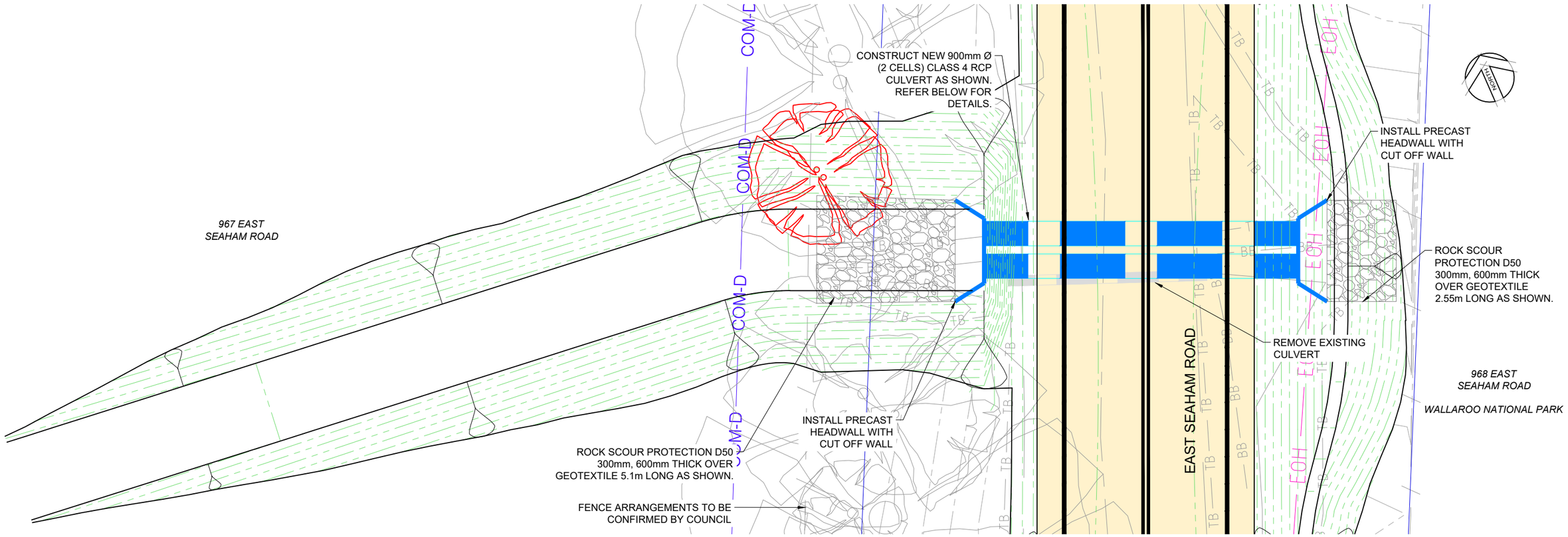
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:100
Horiz. -
Vert. -
X-Sect. 1:100

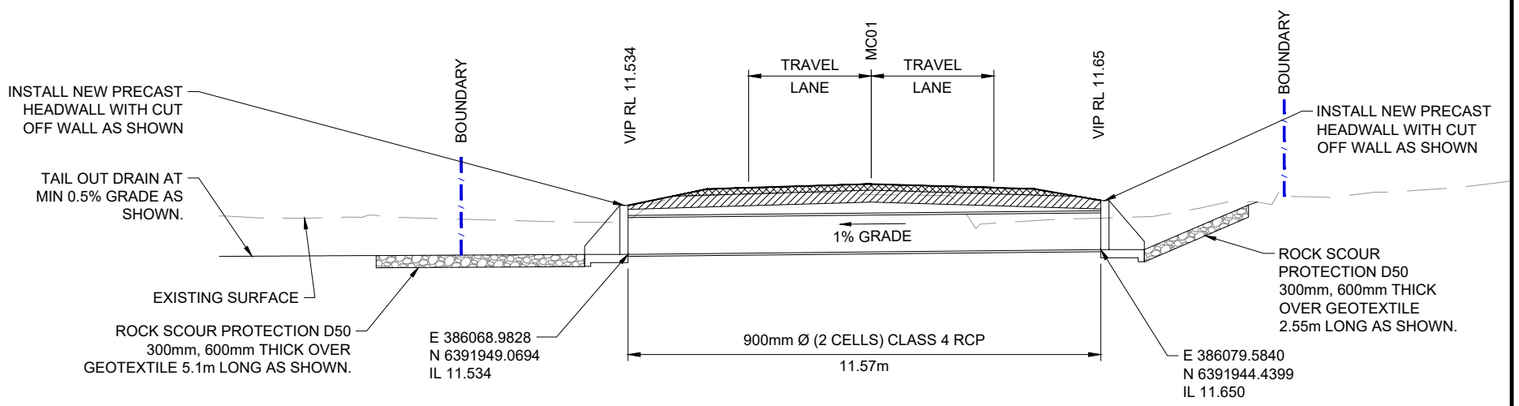
Datum: A.H.D.

Plan No. 240458-01-515
File Ref. 240458
REV. E

A3



PLAN - DR06 CULVERT - CH 5280
SCALE 1:150



SECTION - DR06 CULVERT - CH 5280
SCALE 1:150

1.5 0 1.5 3 4.5 6 7.5 1:150
METRES

REV	AMENDMENT	ISSUED	DATE
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR06

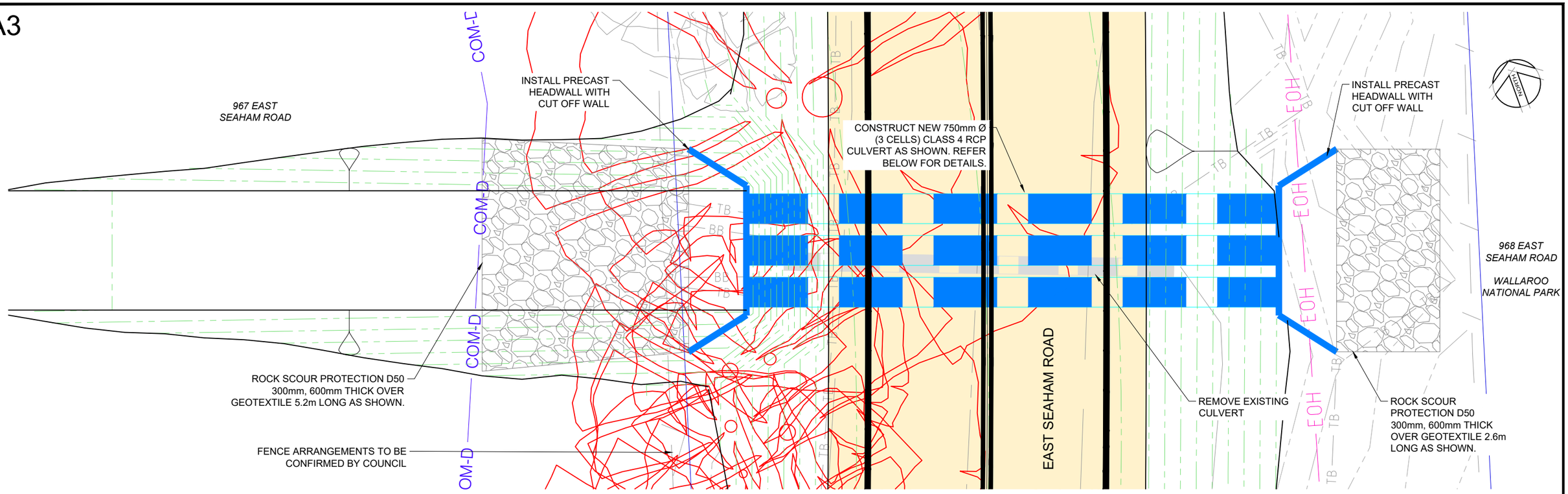
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:150
Horiz. -
Vert. -
X-Sect. 1:150

Datum: A.H.D.

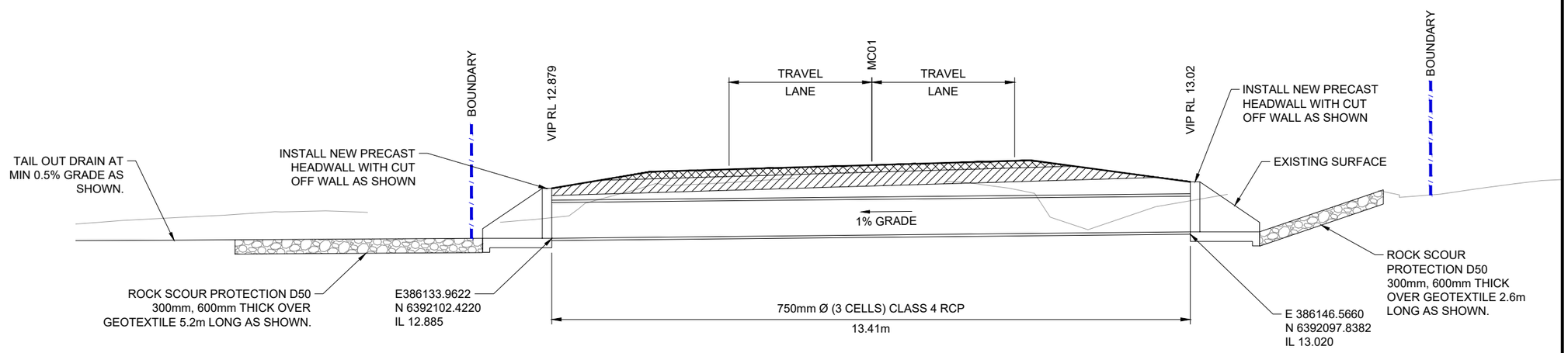
Plan No. 240458-01-516
File Ref. 240458
REV. E

A3



PLAN - DR07 CULVERT - CH 5447

SCALE 1:100



SECTION - DR07 CULVERT - CH 5447

SCALE 1:100

1 0 1 2 3 4 5 METRES 1:100

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM

STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR07

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:100, Horiz. -, Vert. -, X-Sect. 1:100

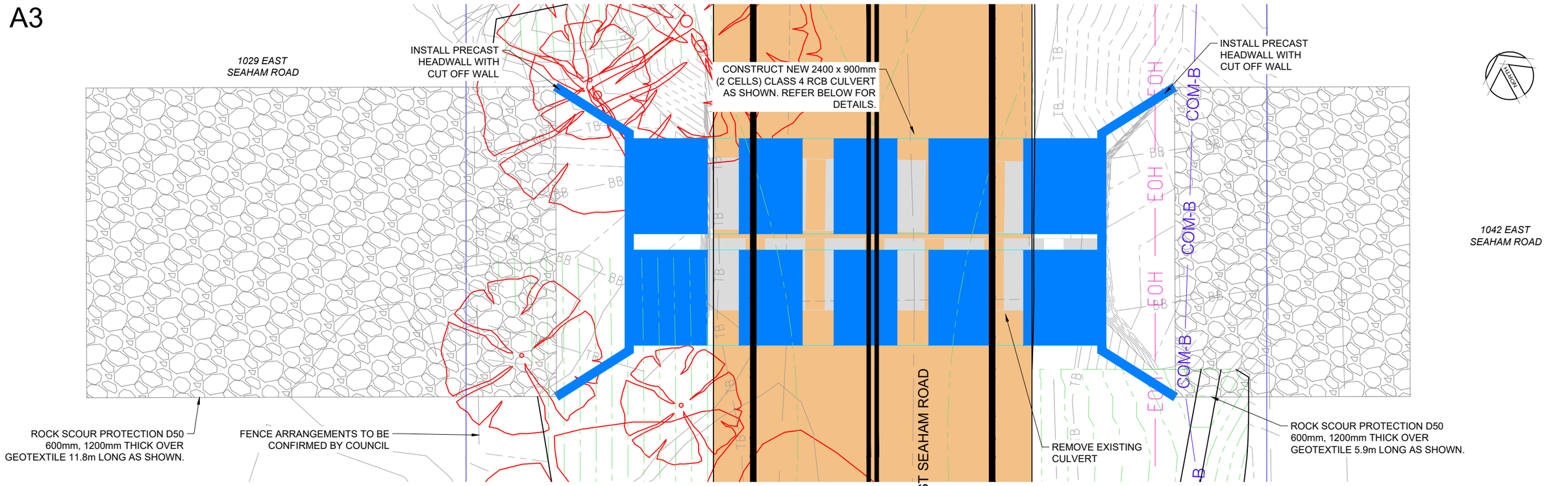
Datum: A.H.D.

Plan No. 240458-01-517

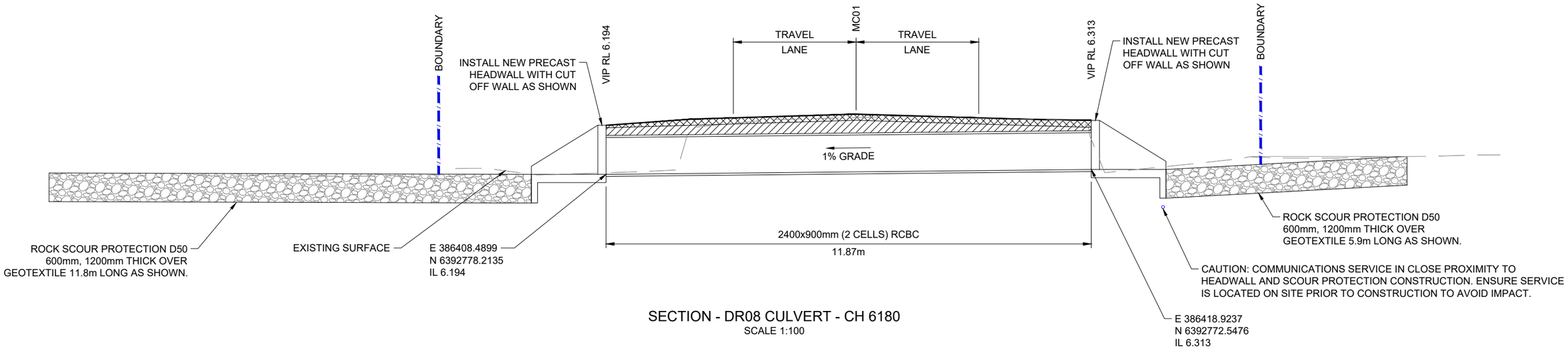
File Ref. 240458

REV. E

A3



PLAN - DR08 CULVERT - CH 6180
SCALE 1:100



SECTION - DR08 CULVERT - CH 6180
SCALE 1:100

1 0 1 2 3 4 5
METRES
1:100

REV	AMENDMENT	ISSUED	DATE
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

CULVERT PLAN AND SECTION DR08

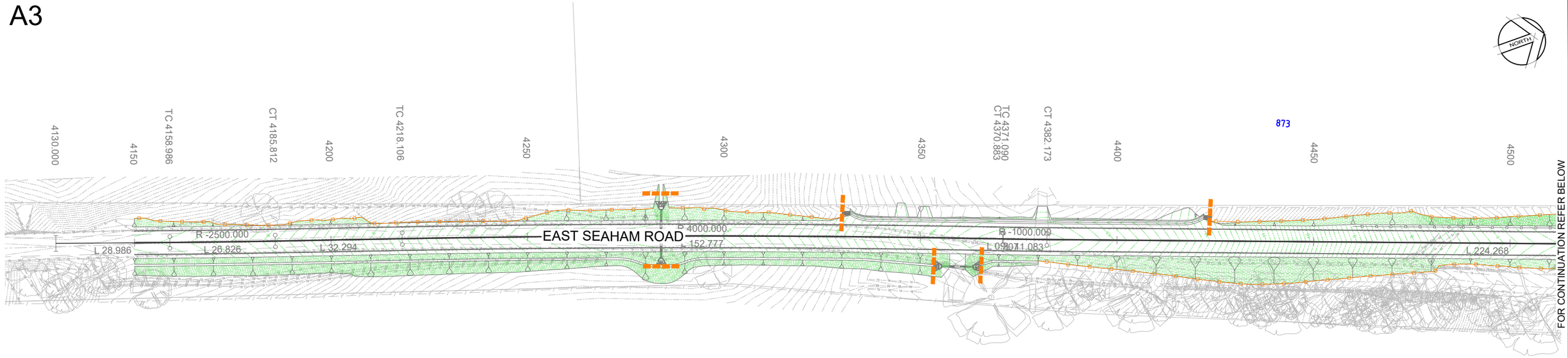
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:100
Horiz. -
Vert. -
X-Sect. 1:100

Datum: A.H.D.

Plan No. 240458-01-518
File Ref. 240458
REV. E

A3



LEGEND:

- SEDIMENT FENCE OR EARTH BUND AS PER SITE CONDITIONS IN ACCORDANCE WITH SITE CONDITIONS
- STABILISED SITE ACCESS AT ENTRANCE TO WORKS
- SURFACE INLET PIT SEDIMENT TRAP
- HAY BALE SEDIMENT TRAP

872

PLAN
SCALE 1:1000

PLAN
SCALE 1:1000

10 0 10 20 30 40 50 METRES 1:1000

REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

EROSION AND SEDIMENT CONTROL PLAN SHEET 1

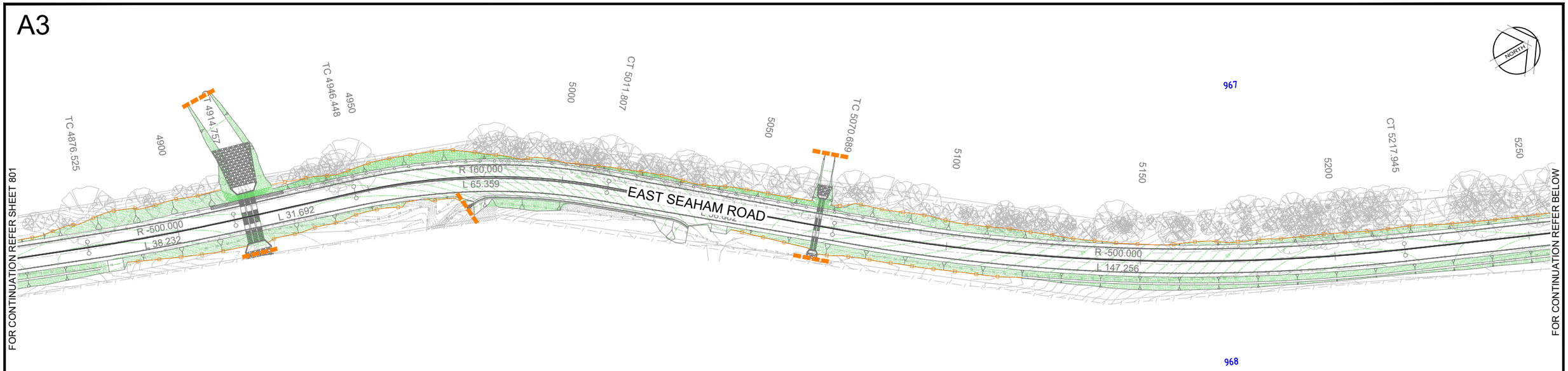
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-801
File Ref. 240458
REV. E

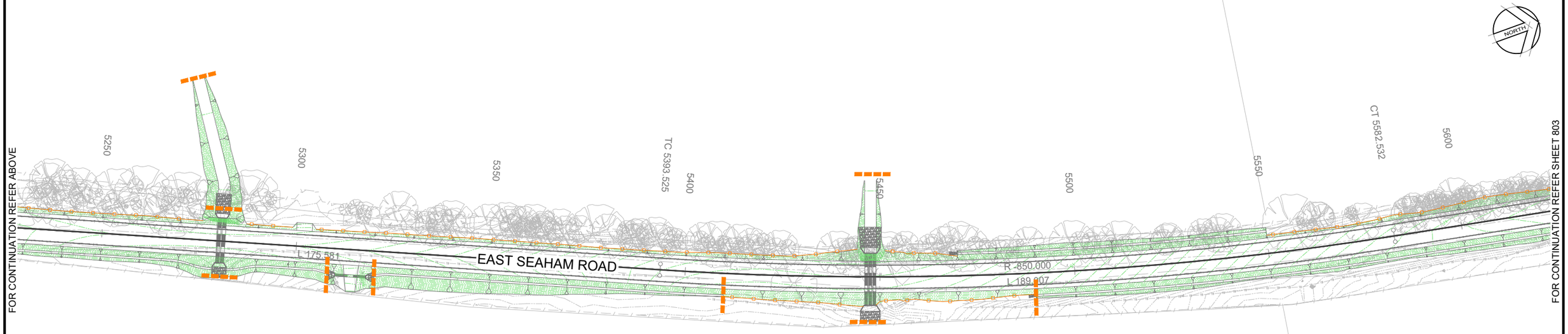
A3



LEGEND:

- SEDIMENT FENCE OR EARTH BUND AS PER SITE CONDITIONS IN ACCORDANCE WITH SITE CONDITIONS
- STABILISED SITE ACCESS AT ENTRANCE TO WORKS
- SURFACE INLET PIT SEDIMENT TRAP
- HAY BALE SEDIMENT TRAP

PLAN
SCALE 1:1000



PLAN
SCALE 1:1000

10 0 10 20 30 40 50 METRES 1:1000

REV	AMENDMENT	ISSUED	DATE
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barkerryanstewart.com.au
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

EROSION AND SEDIMENT CONTROL PLAN SHEET 2

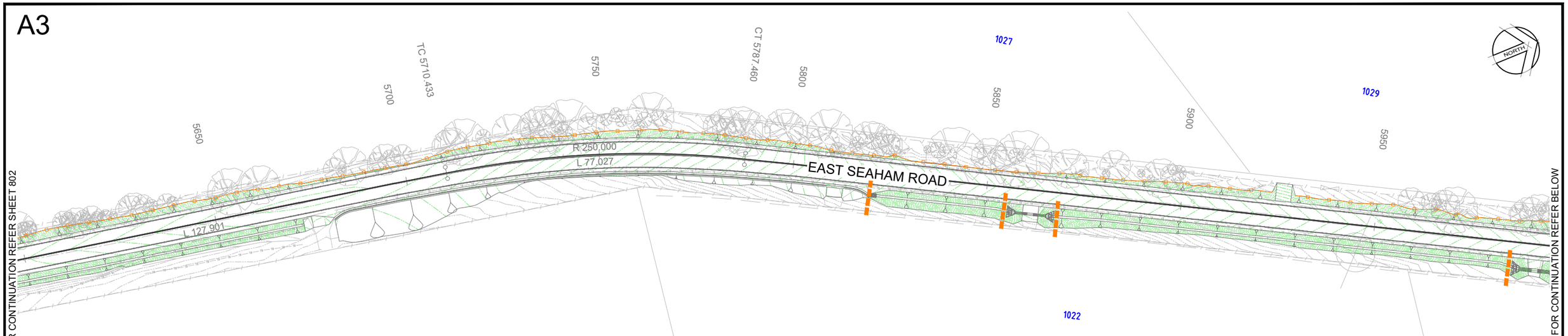
Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No. 240458-01-802
File Ref. 240458
REV. E

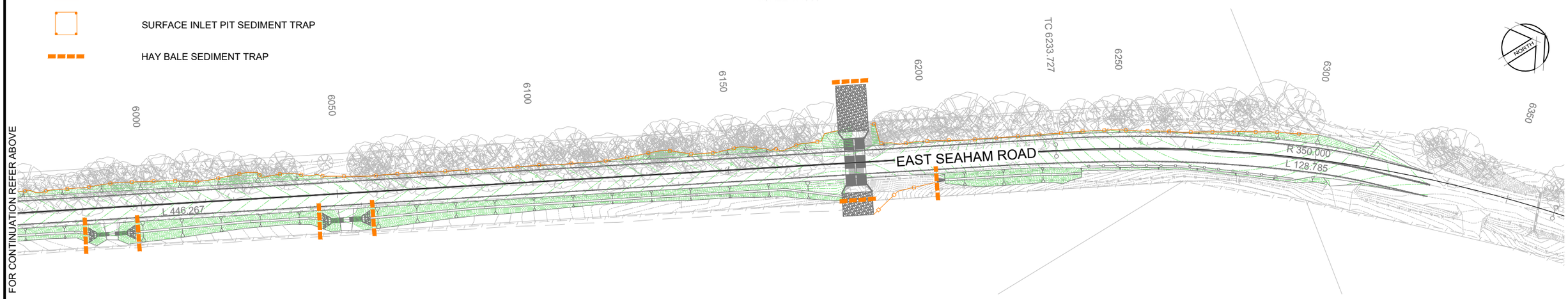
A3



LEGEND:

- SEDIMENT FENCE OR EARTH BUND AS PER SITE CONDITIONS IN ACCORDANCE WITH SITE CONDITIONS
- STABILISED SITE ACCESS AT ENTRANCE TO WORKS
- SURFACE INLET PIT SEDIMENT TRAP
- HAY BALE SEDIMENT TRAP

PLAN
SCALE 1:1000



PLAN
SCALE 1:1000

EROSION AND SEDIMENTATION CONTROL NOTES:

1. PRIOR TO THE COMMENCEMENT OF SITE DISTURBANCE, THE CONTRACTOR SHALL ESTABLISH ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THIS PLAN, COUNCIL'S "CIVIL WORKS SPECIFICATION, PART 2 -CONSTRUCTION", AND THE NSW DEPARTMENT OF HOUSING'S PUBLICATION "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION".
2. THE LOCATION OF EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS PLAN ARE INDICATIVE ONLY AND SHOULD BE ADJUSTED TO SUIT SITE CONDITIONS.
3. WHERE WORKS ARE DELAYED OR IN ABEYANCE AND DISTURBED AREAS ARE LIKELY TO BE EXPOSED FOR A PERIOD OF TWO MONTHS OR MORE, TEMPORARY REHABILITATION WORKS SHALL BE UNDERTAKEN TO PROTECT THE SITE.
4. ALL DISTURBED AREAS SHALL BE TOPSOILED, SEEDED AND MULCHED WITHIN 2O DAYS OF THE COMPLETION OF THE WORKS.
5. ALL AREAS WITH SLOPES STEEPER THAN 12% (1 in 8) SHALL BE STRAW MULCHED IN CONJUNCTION WITH SEEDING, OR TURFED.
6. SILT BARRIERS LOCATED AROUND KERB INLET AND ROAD PITS SHALL BE REINSTATED FOLLOWING ROAD PAVING WORKS IF IT IS LIKELY THAT UNDISTURBED AREAS WILL STILL DRAIN TO THE PIT.
7. SANDBAGS SHALL BE PLACED ACROSS THE END OF ROAD CONSTRUCTION AT THE COMPLETION OF EACH DAYS WORK TO PREVENT EROSION OF THE CONSTRUCTED MATERIAL.
8. THE CONTRACTOR SHALL CONDUCT WEEKLY INSPECTIONS OF THE SITE TO ENSURE THAT ALL DEVICES AND REHABILITATION AREAS HAVE BEEN ADEQUATELY MAINTAINED. THE CONTRACTOR SHALL ALSO KEEP A LOG BOOK DETAILING SUCH INSPECTIONS, AND RECORDING RAINFALL EVENTS AND OTHER RELEVANT EVENTS.
9. TOPSOIL SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THIS PLAN OR AS DIRECTED BY COUNCIL'S ENGINEER. WHERE IT IS LIKELY THAT STOCKPILES WILL REMAIN IN PLACE FOR A PERIOD EXCEEDING 4 WEEKS, THEN THE STOCKPILE SHALL BE STABILISED BY SEEDING OR EQUIVALENT METHODS.
10. ALL REVEGETATION WORKS ARE TO BE MAINTAINED, INCLUDING WATERING AND MOWING WHERE NECESSARY UNTIL THE COMPLETION OF THE MAINTENANCE PERIOD.
11. THE MOVEMENT OF VEHICULAR TRAFFIC ON THE SITE SHALL BE CONFINED TO DESIGNATED AREAS DURING CONSTRUCTION WORKS. VEHICULAR ACCESS SHALL BE DENIED TO AREAS TO BE LEFT UNDISTURBED.
12. SITE ACCESS SHALL BE LIMITED TO THE LOCATIONS SHOWN ON THIS PLAN. SHAKE-DOWN AREAS SHALL BE CONSTRUCTED AS SHOWN.
13. DURING CONSTRUCTION WORKS, DUST CONTROL MEASURES SHALL BE IMPLEMENTED TO MINIMISE THE AMOUNT OF DUST GENERATED FROM THE SITE. THESE MEASURES TO BE IMPLEMENTED TO COUNCIL'S SATISFACTION.
14. MAINTENANCE AND CLEANING OF CONSTRUCTION PLANT SHALL BE CARRIED OUT IN AN AREA WHERE RUNOFF CAN BE CONTAINED AND APPROPRIATELY TREATED AND DISPOSED OF.
15. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE ADEQUATELY REGENERATED. THIS STAGE SHALL BE DETERMINED BY THE CERTIFIER.

10 0 10 20 30 40 50
METRES
1:1000

REV	AMENDMENT	ISSUED	DATE
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Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

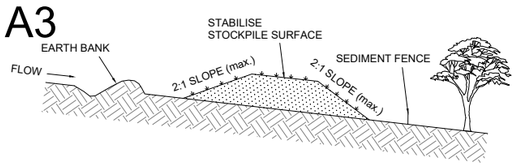
EROSION AND SEDIMENT CONTROL PLAN SHEET 3

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan 1:1000
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-803
File Ref. 240458
REV. E

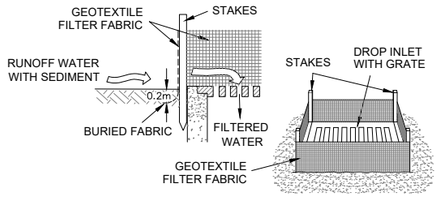
A3



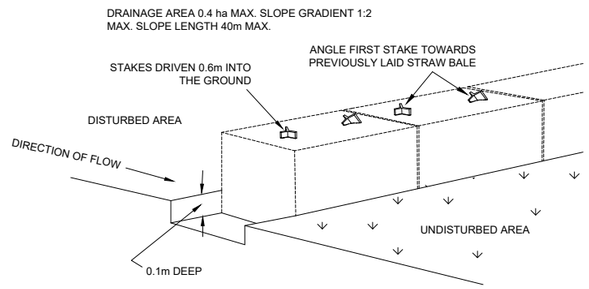
CONSTRUCTION NOTES

1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS, HAZARD AREAS AND MIN. 1.5m AWAY FROM EMBANKMENTS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

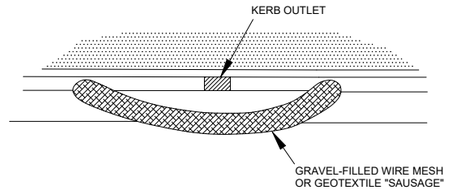
TOPSOIL STOCKPILE



SURFACE INLET PIT SEDIMENT TRAP



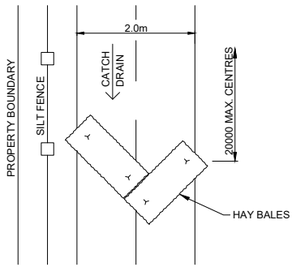
STRAW BALE SEDIMENT FILTER



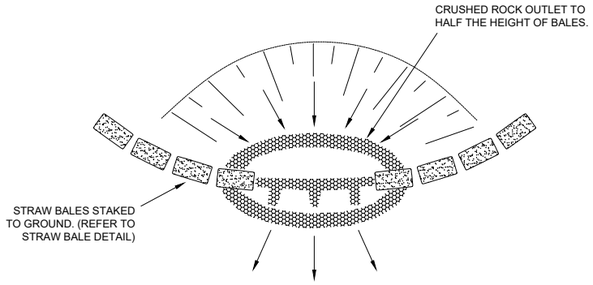
CONSTRUCTION NOTES

1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
3. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
4. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

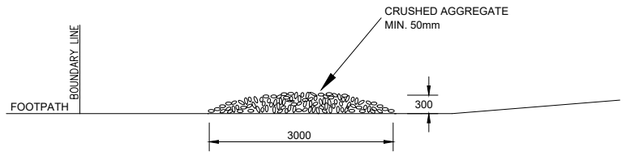
MESH & GRAVEL FILTER "SAUSAGE" BARRIER



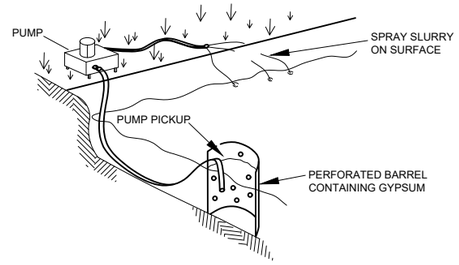
CATCH DRAIN DETAIL



STRAW BALE & CRUSHED ROCK SEDIMENT FILTER



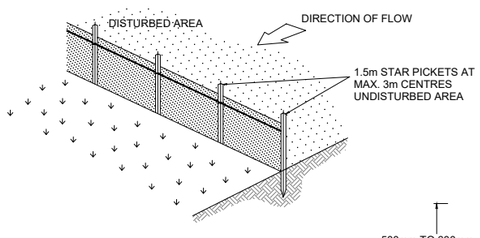
VEHICLE DUST SHAKE DOWN DETAIL



NOTE:

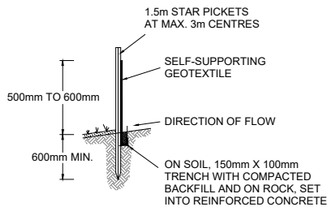
1. FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (IE: SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT
2. FOR RATES & AGENTS SEE APPENDIX E OF HOUSING NSW "MANAGING URBAN SW SOILS & CONSTRUCTION".

FLOCCULATION DETAIL



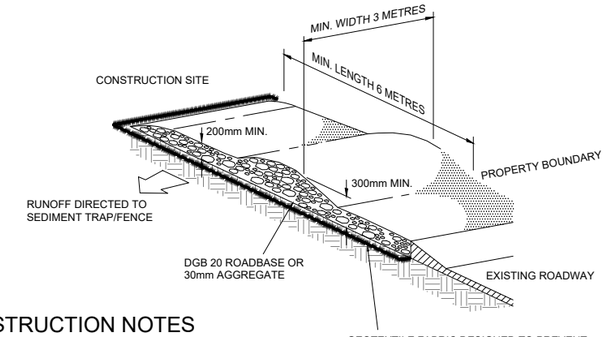
CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARRALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND 2.5 METRES APART (MAX.)
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



SECTION DETAIL

SEDIMENT FENCE



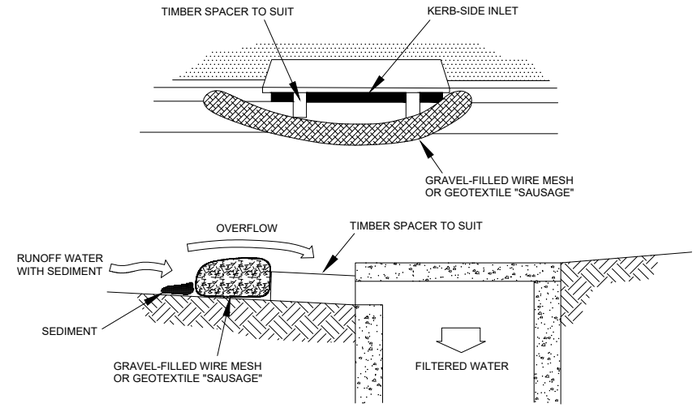
CONSTRUCTION NOTES

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS.

GEOFABRIC MAY BE A WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N

STABILISED SITE ACCESS



CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLET ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL INLET "SAUSAGE" FILTER

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REV	AMENDMENT	ISSUED	DATE
A	CONCEPT DESIGN ISSUE	AS	19/07/24
B	50% DETAILED DESIGN	AS	06/09/24
C	90% DETAILED DESIGN	AS	01/11/24
D	ISSUED FOR CONSTRUCTION	AS	13/12/24
E	REVISED ISSUED FOR CONSTRUCTION	AS	03/01/25

BARKER RYAN STEWART
TOTAL PROJECT SOLUTIONS
PLANNING - PROJECT MANAGEMENT - ENGINEERING - CERTIFICATION
SYDNEY P: 02 9659 0005
CENTRAL COAST P: 02 4325 5255
HUNTER P: 02 4966 8388
ABN: 26 134 067 842
barkerryanstewart.com.au
mail@barkerryanstewart.com.au

Client: PORT STEPHENS COUNCIL

EAST SEAHAM ROAD, EAST SEAHAM
STAGE 6 ROAD RECONSTRUCTION - W12575 - SEG 130 AND 140

EROSION AND SEDIMENT CONTROL DETAILS

Designed: BF
Drawn: RD
Checked: SGB

Scales: Plan -, Horiz. -, Vert. -, X-Sect. -
Datum: A.H.D.

Plan No. 240458-01-811
File Ref. 240458
REV. E