

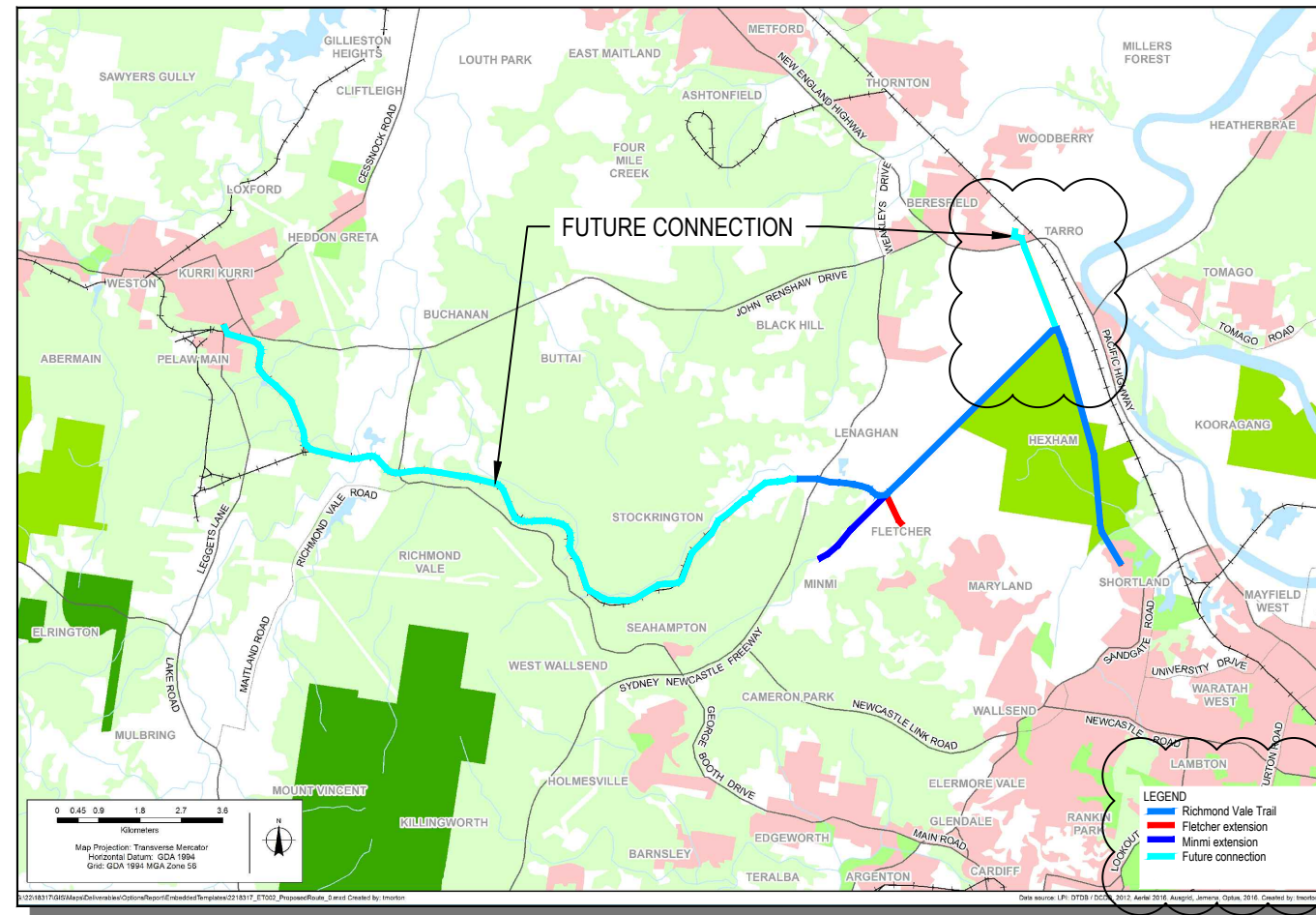


CITY OF NEWCASTLE

RICHMOND VALE RAIL TRAIL

CONCEPT DESIGN

22-18317



LOCALITY PLAN

CONCEPT

E	AMENDED AS CLOUDED	E.W	K.R	P.Y	03.03.21	
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	COVER SHEET		
Original Size	A3	Drawing No:	22-18317-G1001
Rev:	E		

DRAWING INDEX	
SHEET No.	TITLE
22-18317-G1001	COVER SHEET
22-18317-G1002	DRAWING INDEX
22-18317-C1004	GENERAL NOTES
22-18317-C1005	GENERAL ARRANGEMENT PLAN
22-18317-C1010	TYPICAL SECTIONS SHEET 1 OF 3
22-18317-C1011	TYPICAL SECTIONS SHEET 2 OF 3
22-18317-C1012	TYPICAL SECTIONS SHEET 3 OF 3
22-18317-C1100	SHORTLAND TO KURRI KURRI - SHEET 1 OF 18
22-18317-C1101	SHORTLAND TO KURRI KURRI - SHEET 2 OF 18
22-18317-C1102	SHORTLAND TO KURRI KURRI - SHEET 3 OF 18
22-18317-C1103	SHORTLAND TO KURRI KURRI - SHEET 4 OF 18
22-18317-C1104	SHORTLAND TO KURRI KURRI - SHEET 5 OF 18
22-18317-C1105	SHORTLAND TO KURRI KURRI - SHEET 6 OF 18
22-18317-C1106	SHORTLAND TO KURRI KURRI - SHEET 7 OF 18
22-18317-C1107	SHORTLAND TO KURRI KURRI - SHEET 8 OF 18
22-18317-C1108	SHORTLAND TO KURRI KURRI - SHEET 9 OF 18
22-18317-C1109	SHORTLAND TO KURRI KURRI - SHEET 10 OF 18
22-18317-C1110	SHORTLAND TO KURRI KURRI - SHEET 11 OF 18
22-18317-C1111	SHORTLAND TO KURRI KURRI - SHEET 12 OF 18
22-18317-C1112	SHORTLAND TO KURRI KURRI - SHEET 13 OF 18
22-18317-C1113	SHORTLAND TO KURRI KURRI - SHEET 14 OF 18
22-18317-C1114	SHORTLAND TO KURRI KURRI - SHEET 15 OF 18
22-18317-C1115	SHORTLAND TO KURRI KURRI - SHEET 16 OF 18
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22-18317-C3000	MINMI JUNCTION TO MINMI - SHEET 1 OF 3
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22-18317-C3002	MINMI JUNCTION TO MINMI - SHEET 3 OF 3
22-18317-C3003	MINMI JUNCTION TO MINMI - DETAIL PLAN
22-18317-C4000	MINMI JUNCTION TO FLETCHER - SHEET 1 OF 2
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22-18317-C4010	FLETCHER CONNECTION - DETAIL PLAN
22-18317-C4011	FLETCHER CONNECTION - LONG SECTION
22-18317-C4012	EXISTING TIMBER BRIDGES - H2M1 BRIDGE
22-18317-C4013	EXISTING TIMBER BRIDGES - H2M2 BRIDGE
22-18317-C4014	EXISTING TIMBER BRIDGES - H2M3 BRIDGE
22-18317-C4015	EXISTING TIMBER BRIDGES - H2M4 BRIDGE

22-18317-C4016	EXISTING TIMBER BRIDGES - H2M5 BRIDGE
22-18317-C6001	CONSTRUCTION AREA - SHEET 1 OF 5
22-18317-C6002	CONSTRUCTION AREA - SHEET 2 OF 5
22-18317-C6003	CONSTRUCTION AREA - SHEET 3 OF 5
22-18317-C6004	CONSTRUCTION AREA - SHEET 4 OF 5
22-18317-C6005	CONSTRUCTION AREA - SHEET 5 OF 5

URBAN DESIGN DRAWINGS	
SHEET No.	TITLE
22-18317-D1001	KING STREET CAR PARK
22-18317-D1002	BLANCH STREET CAR PARK
22-18317-D1004	IRONBARK CREEK BRIDGE GENERAL ARRANGMENT
22-18317-D1005	RESTROOM AMENITIES BUILDING
22-18317-D1006	PLAN AND PERSPECTIVE
22-18317-D1007	SHELTERED REST AREA
22-18317-D1008	REST AREA
22-18317-D1009	MINMI JUNCTION REST AREA

STRUCTURAL DESIGN DRAWINGS	
SHEET No.	TITLE
22-18317-S101	IRONBARK CREEK BRIDGE
22-18317-S201	FISHERY CREEK BRIDGE

CONCEPT

F	SHEETS ADDED AND DELETED	K.R	K.R	P.Y	23.06.21	
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Approved (Project Director)	Date		
Scale	AS SHOWN		

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **DRAWING INDEX**

Original Size **A3** Drawing No: **22-18317-G1002**

Rev: **F**

LEGEND

PAVEMENT

	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	BRIDGE/ELEVATED STRUCTURE
	BOARDWALK STRUCTURE
	FLEXIBLE ROAD PAVEMENT
	TUNNEL
	TYPE F BARRIER
	RETAINING WALL

BATTER TREATMENTS

REFER TO GEOTECHNICAL REPORT FOR DESCRIPTION OF BATTER TREATMENTS

	TREATMENT REQUIRED
	TREATMENT TO BE DETERMINED
	NO TREATMENT REQUIRED

FENCING

	RURAL STYLE FENCE
	STEEL POST AND CABLE FENCE
	CYCLE WAY FENCE
	SECURITY FENCE
	3m HIGH VISUAL SCREEN WALL
	NATIVE VEGETATION SCREEN
	STEEL GATE

DRAINAGE

	SURFACE DRAIN
--	---------------

REST AREAS

	SHELTERED REST AREA
	OPEN REST AREA

GENERAL

	ABORIGINAL HERITAGE SITE
--	--------------------------

EXISTING UTILITIES

	HV	HIGH VOLTAGE ELECTRICAL OVERHEAD
	HV	HIGH VOLTAGE ELECTRICAL UNDERGROUND
	LV	LOW VOLTAGE ELECTRICAL OVERHEAD
	LV	LOW VOLTAGE ELECTRICAL UNDERGROUND
	E(OH)	OVER HEAD ELECTRICAL
		AUXILIARY ELECTRICAL OVERHEAD
		AUXILIARY ELECTRICAL UNDERGROUND
		STREET LIGHT PEC CONTROL; STREETLIGHT; STREETLIGHT STAND
		ELECTRICAL SUPPLY POINT
		STAY WIRE
		ELECTRICAL POLE
		ELECTRICAL EARTH POINT
		LOW VOLTAGE SUB POLE
		ELECTRICAL PILLAR; SWITCH
	FO	OPTUS FIBRE OPTIC TELECOMMUNICATIONS UNDERGROUND WITH CABLE MARKER
	G	JEMENA HIGH PRESSURE GAS MAIN
	T	TELSTRA NETWORK TELECOMMUNICATIONS
		TELSTRA CONNECTION POINT AND NODE
		TELSTRA PIT; PILLAR
	W	WATER MAIN
	S	SEWER MAIN
	DP	LOT BOUNDARY
		DISTURBANCE BOUNDARY
		FUTURE PROPOSED CONNECTION

GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT SHALL BE ISSUED DURING THE COURSE OF CONSTRUCTION. ANY DISCREPANCY OR VARIATION SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
- THE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF THE WORK TO BE CARRIED OUT ONLY AND DIMENSIONS SHALL NOT BE OBTAINED BY SCALING.
- ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCHMARKS ONLY. DATUM FOR ALL DRAWINGS IS AUSTRALIAN HEIGHT DATUM (AHD). THE CONTRACTOR SHALL SETOUT ALL WORKS FROM THE NOMINATED BENCH MARKS.
- BEFORE ANY OF THE GIVEN SURVEY MARKS ON THE BASE LINES OR THE VARIOUS CONTROL LINES ARE AFFECTED BY THE WORKS, THE CONTRACTOR SHALL TRANSFER SUCH SURVEY MARKS TO SIDE POSITIONS CLEAR OF OPERATIONS AND SHALL NOTE, AND INFORM THE SUPERINTENDENT IN WRITING, OF THE EXTENT OF SUCH MOVEMENT.
- THE CONTRACTOR SHALL GIVE THE SUPERINTENDENT NOT LESS THAN TWO FULL WORKING DAYS' NOTICE OF THE INTENTION TO PERFORM ANY PORTION OF THE RELOCATION OF SURVEY CONTROL, ESTABLISHMENT OF RECOVERY PEGS, OR SETTING OUT OR LEVELING, SO THAT SUITABLE ARRANGEMENTS CAN BE MADE FOR CHECKING OF THE WORK BY THE SUPERINTENDENT. IF NO SUCH NOTIFICATION IS GIVEN AND A CONTROL MARK IS DISTURBED OR DESTROYED, THEN THE COST OF RE-ESTABLISHING THE CONTROL SHALL BE BORNE BY THE CONTRACTOR.
- ALL PEGS AND PROFILES PLACED BY THE CONTRACTOR SHALL BE REMOVED ON COMPLETION OF WORK UNLESS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
- ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING, AND IN ORDER OF DECREASING PRECEDENCE
 - THESE DRAWINGS
 - THE STANDARDS AND REQUIREMENTS OF THE LOCAL COUNCIL
 - AUS-SPEC SPECIFICATION C123 - EARTHWORKS
- THE PRINCIPAL WILL NOT BE RESPONSIBLE FOR THE SAFE-KEEPING OF ANY OF THE CONTRACTOR'S PLANT, EQUIPMENT, TOOLS, MATERIALS OR OTHER PROPERTY. THE CONTRACTOR MAY PROVIDE, AND PAY FOR, ANY SECURITY FENCING CONSIDERED NECESSARY AROUND ANY OFFICE, WORKSHOP OR STORAGE AREA, SUBJECT TO THE SUPERINTENDENT'S APPROVAL.
- IF EXISTING FENCING IS CUT OR ALTERED BY THE CONTRACTOR, OR IF THERE IS NO EXISTING SITE FENCING, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY FENCING TO THE SATISFACTION OF THE SUPERINTENDENT DURING THE CONTRACT TO PREVENT UNAUTHORISED ENTRY INTO THE PROPERTY, AND SHALL REINSTATE THE FENCING AND REMOVE TEMPORARY FENCING ON COMPLETION OF THE WORK.
- CONSTRUCTION WORK CARRIED OUT UNDER THIS CONTRACT ADJACENT TO OR ADJOINING EXISTING WORKS, SHALL MAKE SMOOTH JUNCTIONS WITH THE EXISTING WORK.
- ALL TREES SHALL BE RETAINED WITHIN THE ALLOTMENTS AND RESERVES UNLESS SHOWN OR DIRECTED OTHERWISE BY THE SUPERINTENDENT. NO CLEARING WORKS SHALL COMMENCE PRIOR TO COUNCIL INSPECTION, WHICH SHALL BE ARRANGED BY THE CONTRACTOR. TREES TO BE REMOVED AS PER DRAWINGS ARE BASED ON GROUND LEVEL LOCATIONS ONLY. WHERE ADDITIONAL TREES ARE TO BE REMOVED, APPROVAL SHALL BE OBTAINED FROM THE SUPERINTENDENT. WHERE DANGEROUS OVERHANGING TREE LIMBS ARE IDENTIFIED ON TREES TO BE RETAINED THE ASSESSMENT AND REMOVAL OF TREE LIMBS SHALL BE UNDERTAKEN BY A QUALIFIED ARBORIST FOLLOWING CONSULTATION WITH THE SUPERINTENDENT.
- DIVERSION OF WATER AND THE PROTECTION OF WORKS IS THE CONTRACTORS RESPONSIBILITY.
- THE CONTRACTOR SHALL PROVIDE FOR THE EFFECTUAL DIVERSION OF SURFACE WATER FROM THE WORKS AND PROVIDE AND ENSURE PROPER FLUSHING FOR STORM AND SUBSOIL WATER ACROSS AND BEYOND THE WORKS AT ALL TIMES. THE FLOW OF STORMWATER AND DRAINAGE ALONG EXISTING GUTTERS AND WATER TABLES SHALL NOT BE INTERRUPTED.
- ALL WORK SHALL BE CARRIED OUT IN SUCH A MANNER AS TO AVOID NUISANCE AND/OR DAMAGE TO THE ENVIRONMENT. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE COUNCIL APPROVED REF. NO VARIATION IN COSTS OR EXTENSIONS OF TIME WILL BE CONSIDERED DUE TO THESE REQUIREMENTS.
- THE CONTRACTOR SHALL PLAN AND CARRY OUT THE WORKS TO AVOID EROSION, CONTAMINATION AND SEDIMENTATION OF THE SITE AND ITS SURROUNDINGS.
- HERBICIDES AND OTHER TOXIC CHEMICALS SHALL NOT BE USED ON THE SITE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT.
- THE CONTRACTOR MUST ENSURE SUPERINTENDENT AND/OR COUNCIL APPROVAL OF MATERIALS PRIOR TO DELIVERY TO SITE.
- CONTRACTOR MUST OBTAIN MOST CURRENT SERVICE UTILITIES DRAWINGS FROM ALL RELEVANT AUTHORITIES.
- EXPLORE ALL EXISTING SERVICES WITHIN THE SITE IN ENOUGH LOCATIONS TO DETERMINE THEIR POSITIONS AND LEVELS PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK.
- ALL WASTE OR DEMOLISHED MATERIALS SHALL BE DISPOSED OFF SITE TO A COUNCIL APPROVED SITE. ALL FEES AND CHARGES SHALL BE INCLUDED IN THE CONTRACT SUM.
- THE CONTRACTOR SHALL SUPPLY THE SUPERINTENDENT WITH FULLY MARKED-UP AND CERTIFIED WORK-AS-EXECUTED DRAWINGS FOR THE WHOLE OF THE CONTRACT PRIOR TO ISSUE OF THE FINAL CERTIFICATE. PRINTS OR REPRODUCIBLES OF THE CONTRACT DRAWINGS WILL BE SUPPLIED BY THE PRINCIPAL FREE OF CHARGE FOR THIS PURPOSE.
- WORK-AS-EXECUTED DRAWINGS FOR ROADWORKS SHALL SHOW IN RED INK ALL CHANGES TO THE CONTRACT DRAWINGS AND ACTUAL VALUES OF ALL LEVELS SHOWN ON THE DRAWINGS. THE DRAWINGS SHALL BE SIGNED BY A SURVEYOR AND CERTIFIED BY THE CONTRACTOR.

DRAINAGE NOTES

- ALL STORMWATER PIPES TO BE RUBBER RING JOINTED U.N.O. PIPE TYPE & CLASS AS SHOWN ON DRAWINGS.
- REINFORCED CONCRETE PIPES (RCP) SHALL COMPLY WITH AS4058.
- BEDDING AND BACKFILL MATERIAL SHALL COMPLY WITH AS3725. ALL MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150MM COMPACTED THICKNESS. BED AND HAUNCH ZONES SHALL BE COMPACTED TO 60% RELATIVE COMPACTION (AS1289.5.4.1). SELECT BACKFILL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION (AS1289.5.7.1).

ROADS NOTES

- TRAFFIC CONTROL PLANS ARE TO BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE SUPERINTENDENT, AND WHERE NECESSARY RMS AND COUNCIL, PRIOR TO IMPLEMENTATION.
- THE TRAFFIC CONTROL PLAN SHALL BE IMPLEMENTED IN ACCORDANCE WITH AS1742.

SIGNAGE AND LINEMARKING

- SIGNAGE AND LINEMARKING FOR BICYCLE FACILITIES TO BE APPLIED AS PER AUSTRALIAN STANDARD 1742.9 - 2000. REGULATORY SIGNAGE TO BE IN ACCORDANCE WITH AS1742.2-2009

CONCEPT

E	AMENDED AS CLOUDED	E.W.	K.R.	P.Y.	03.03.21	
D	MINOR AMENDMENTS TO LOTS	B.S.	K.R.	P.Y.	14.01.20	
C	CADASTRAL AMENDED	B.S.	K.R.	P.Y.	12.12.19	
B	TITLE BLOCK AMENDED	B.S.	K.R.	P.Y.	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S.	K.R.	P.Y.	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

Plot Date: 2 March 2021 - 11:12 AM

Plotted By: Beth Wallis

Cad File No: G:\22\18317\CADD\Drawings\1000 Series\22-18317-C1004.dwg

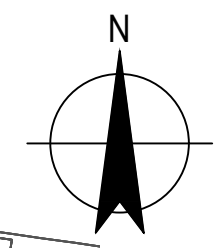


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Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN	This Drawing must not be used for construction unless signed as Approved	

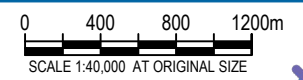
Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	GENERAL NOTES
Original Size	A3
Drawing No:	22-18317-C1004
Rev:	E



PLAN
SCALE 1:40,000

CONCEPT

E	AMENDED AS CLOUDED	E.W	K.R	P.Y	03.03.21	
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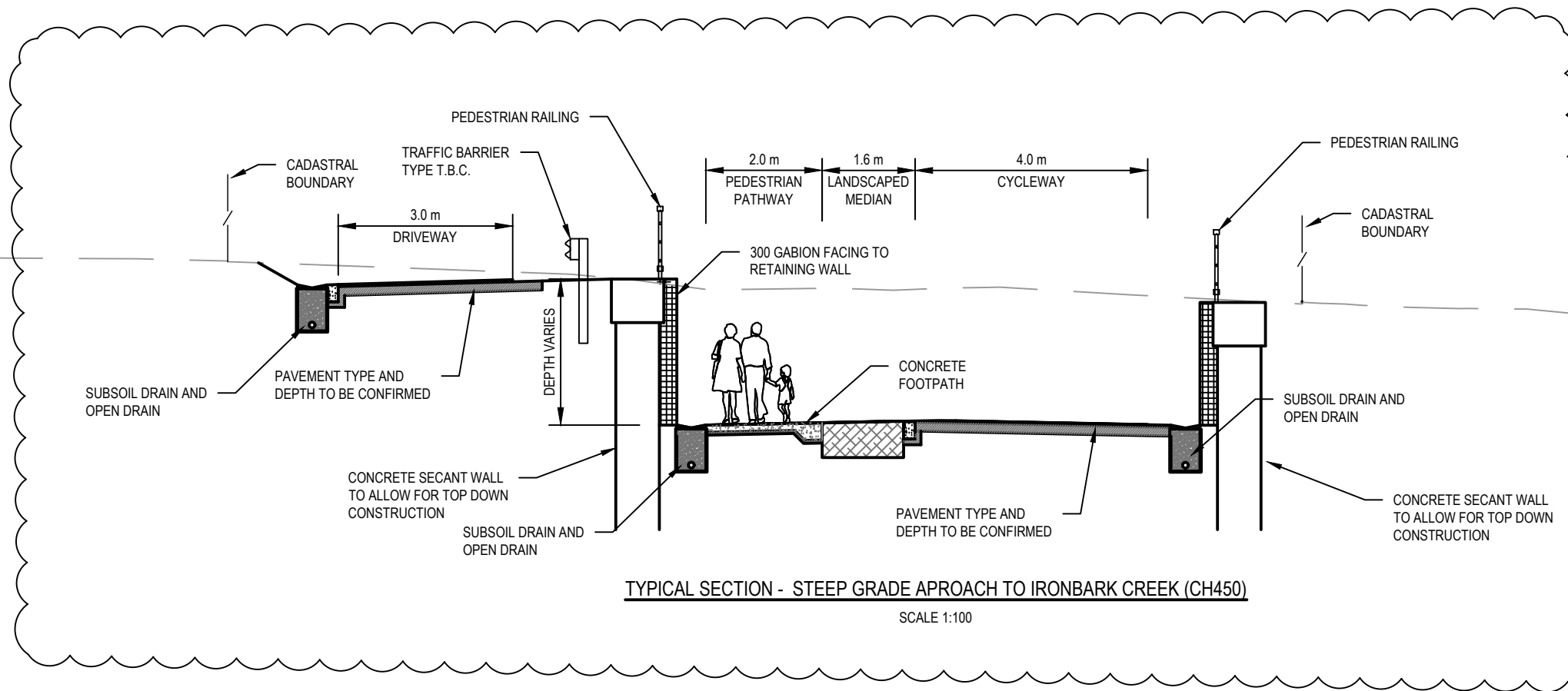
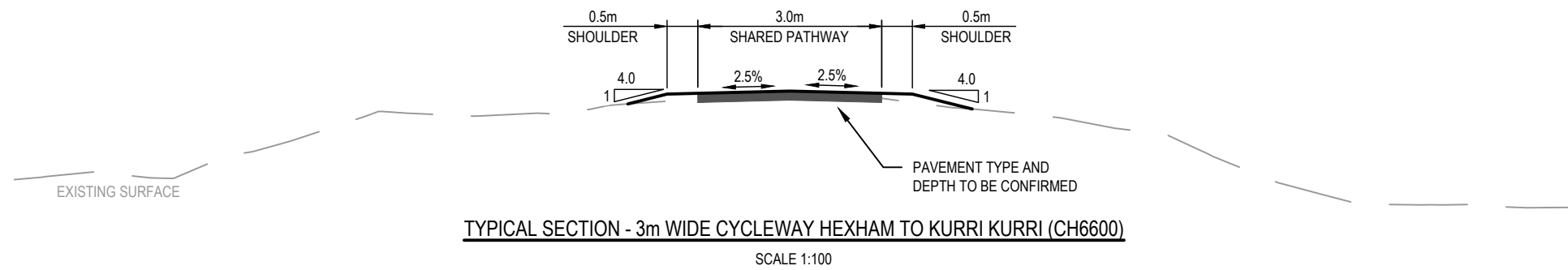
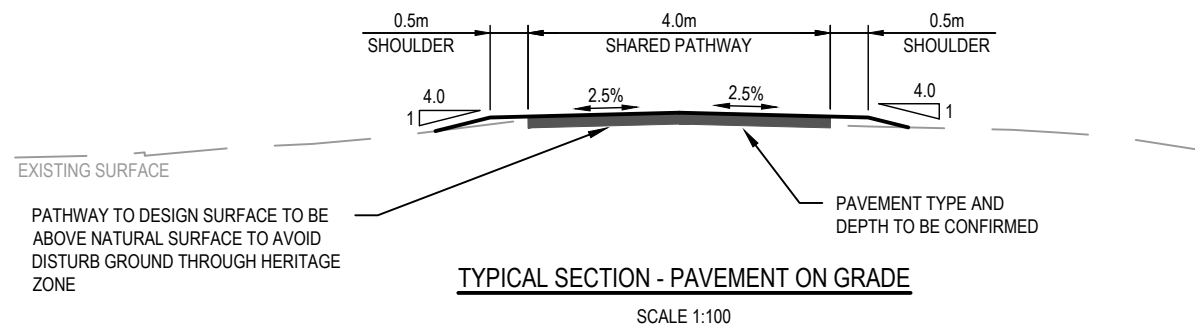


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Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	GENERAL ARRANGEMENT PLAN		
Original Size	A3	Drawing No:	22-18317-C1005
Rev:	E		



NOTE
 1. PREFERRED OPTION TO BE CONFIRMED DURING DETAIL DESIGN

CONCEPT

F	CROSS SECTION AMENDED	DMC	K.R	P.Y	12.08.21	
E	CROSS SECTION AMENDED	B.S	K.R	P.Y	23.06.21	
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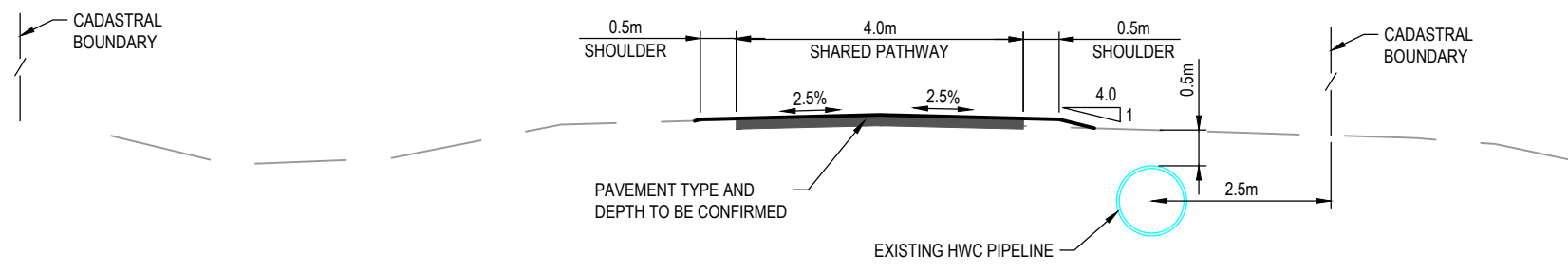
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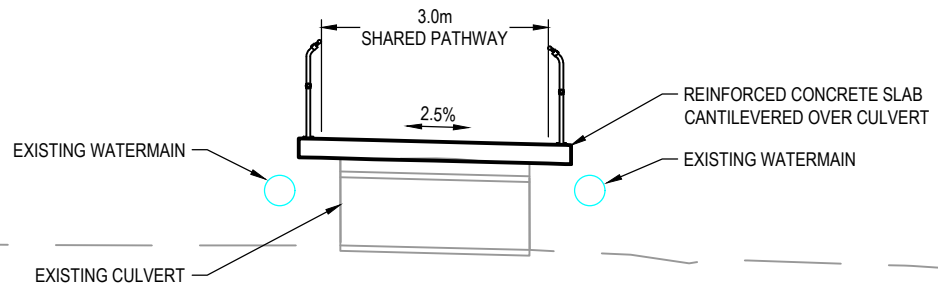
Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	TYPICAL SECTIONS SHEET 1 OF 3
Original Size	A3
Drawing No:	22-18317-C1010

Rev: F



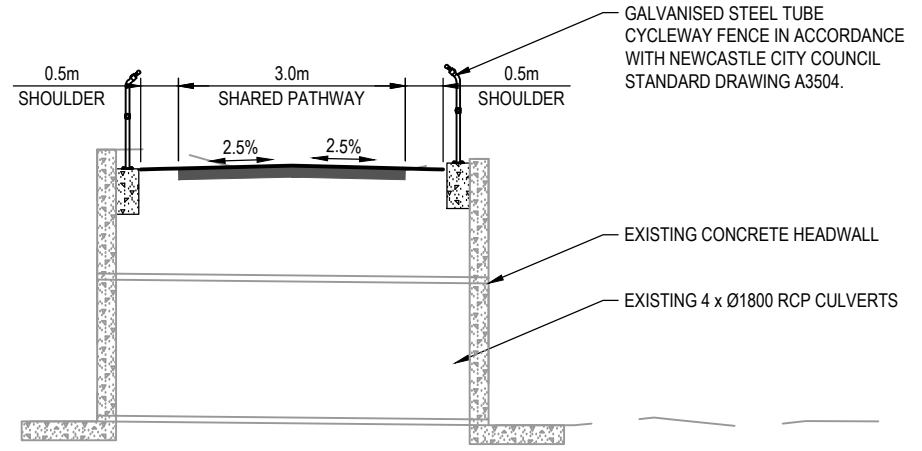
TYPICAL SECTION - PATH ADJACENT HWC PIPELINE HEXHAM TO TARRO (CH190)

SCALE 1:100



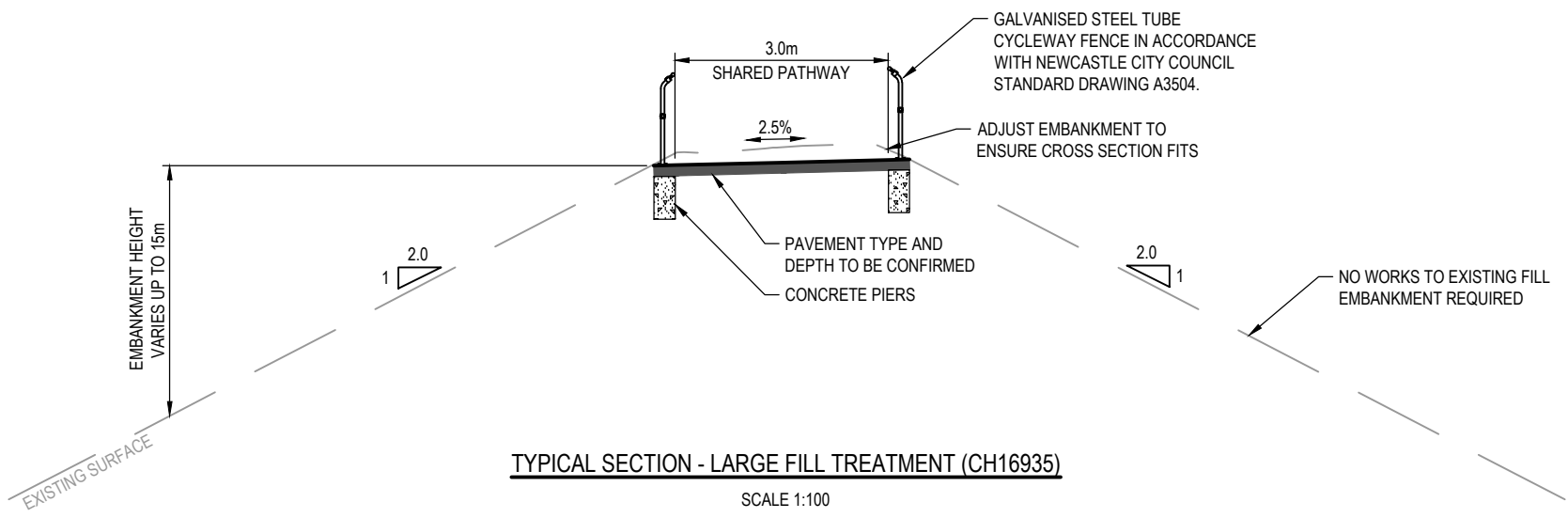
TYPICAL SECTION - CANTILEVERED CULVERT SLAB MINMI JUNCTION TO MINMI (CH1700)

SCALE 1:100



TYPICAL SECTION - LARGE CULVERT SHORTLAND TO KURRI KURRI (CH26450)

SCALE 1:100

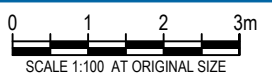


TYPICAL SECTION - LARGE FILL TREATMENT (CH16935)

SCALE 1:100

CONCEPT

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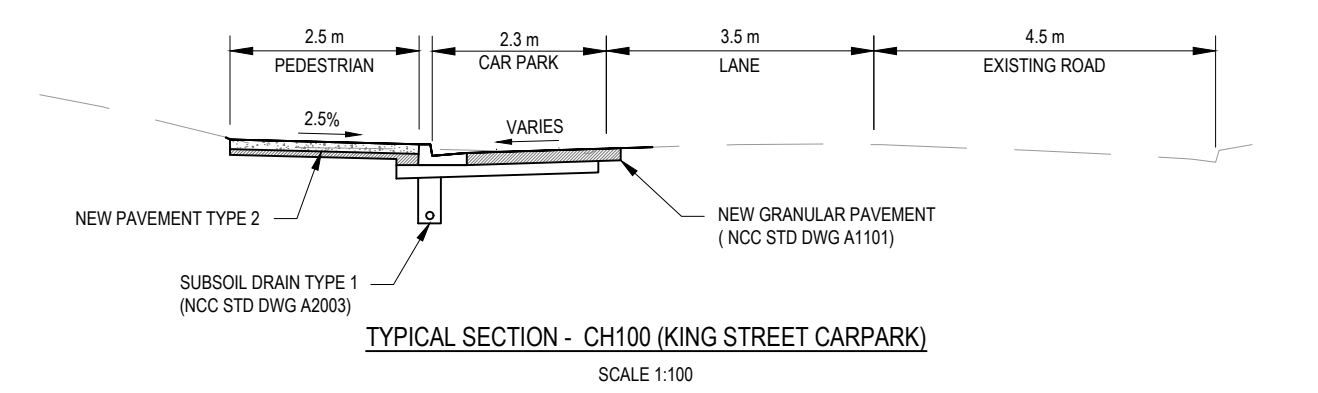
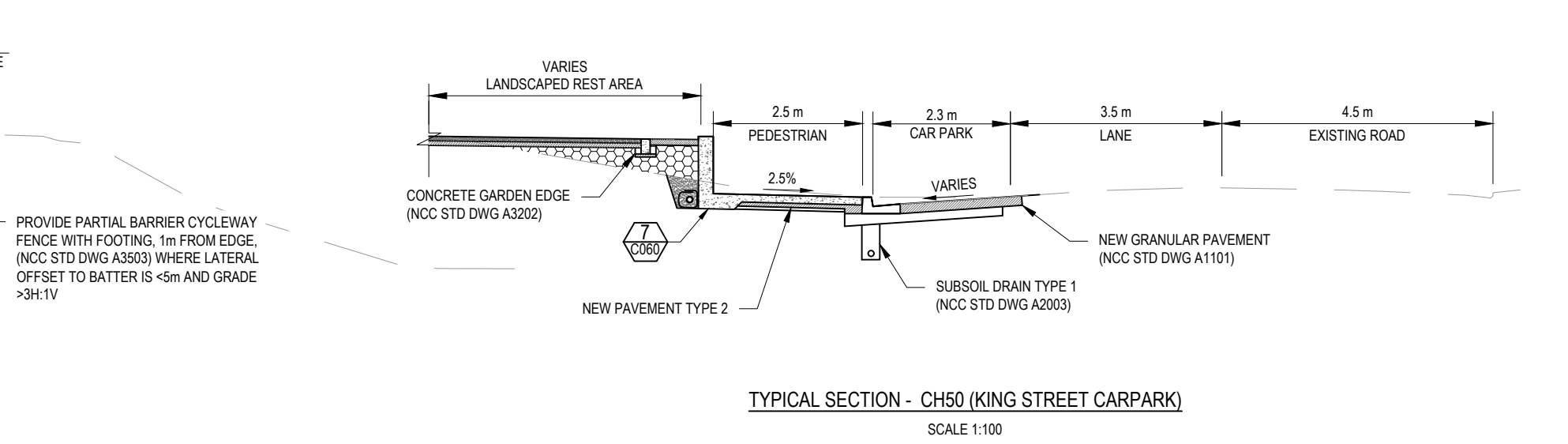
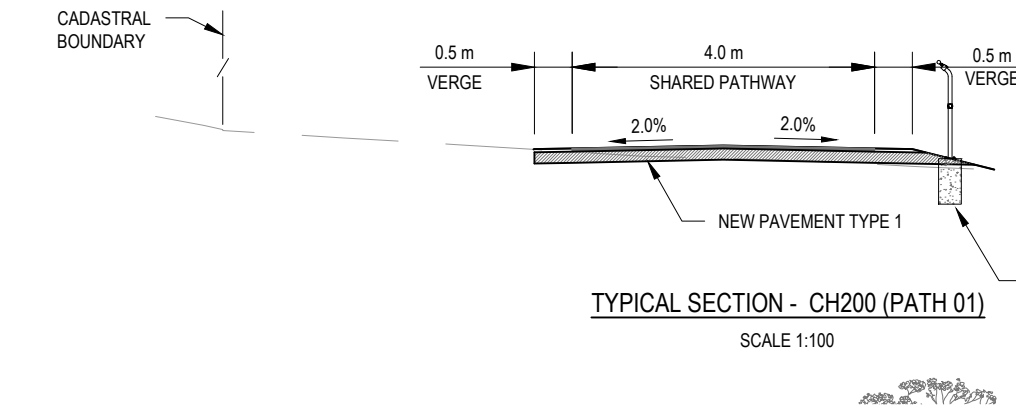
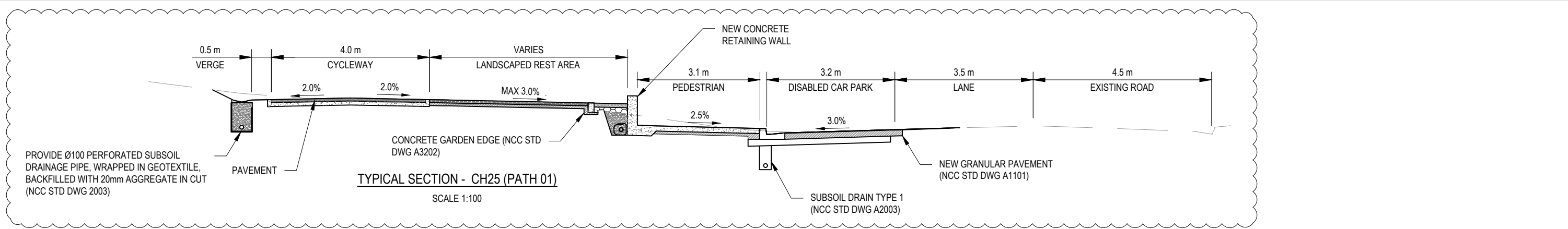


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Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	TYPICAL SECTIONS SHEET 2 OF 3
Original Size	A3
Drawing No:	22-18317-C1011
Rev:	D



PRELIMINARY

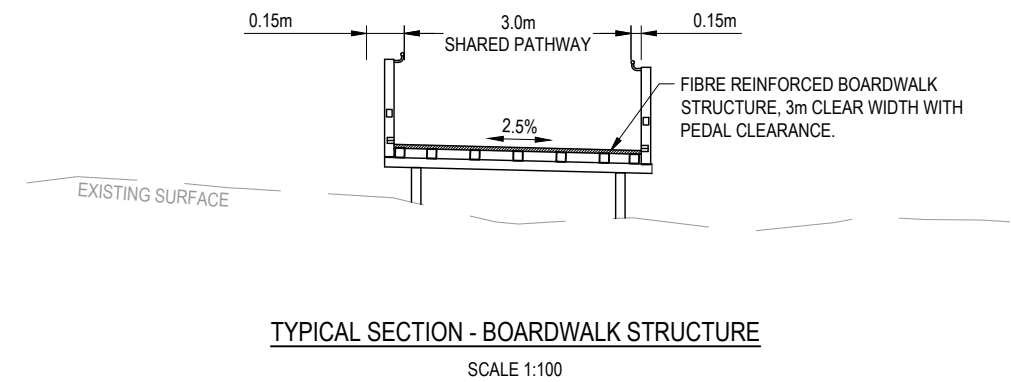
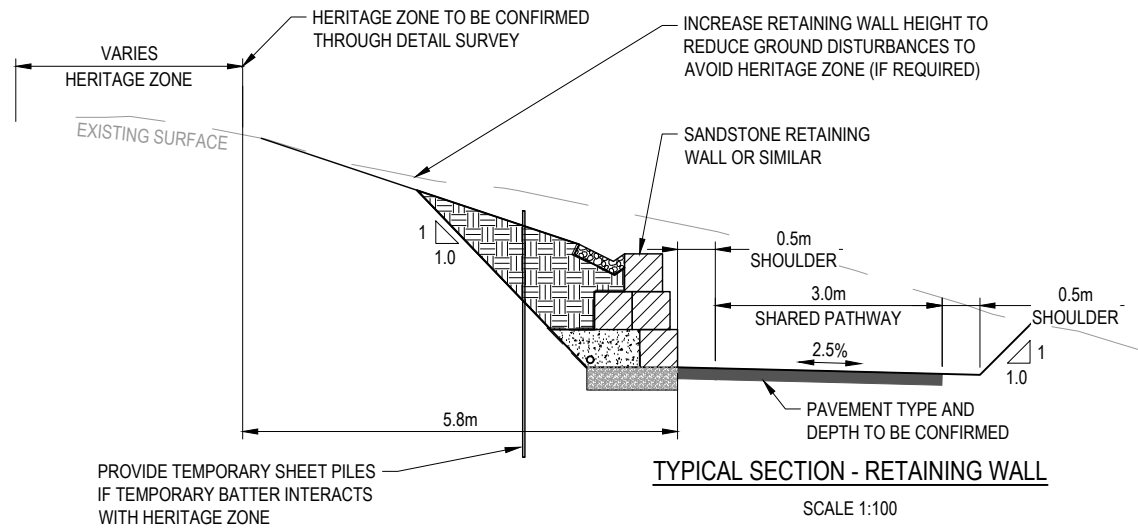
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	SECTION UPDATED		B.S.	K.R.	S.J.	13.09.21
B	90% DESIGN ISSUE		C.B.	K.R.	S.J.	30.06.17
A	50% DESIGN ISSUE		B.D.	K.R.	S.J.	22.03.21



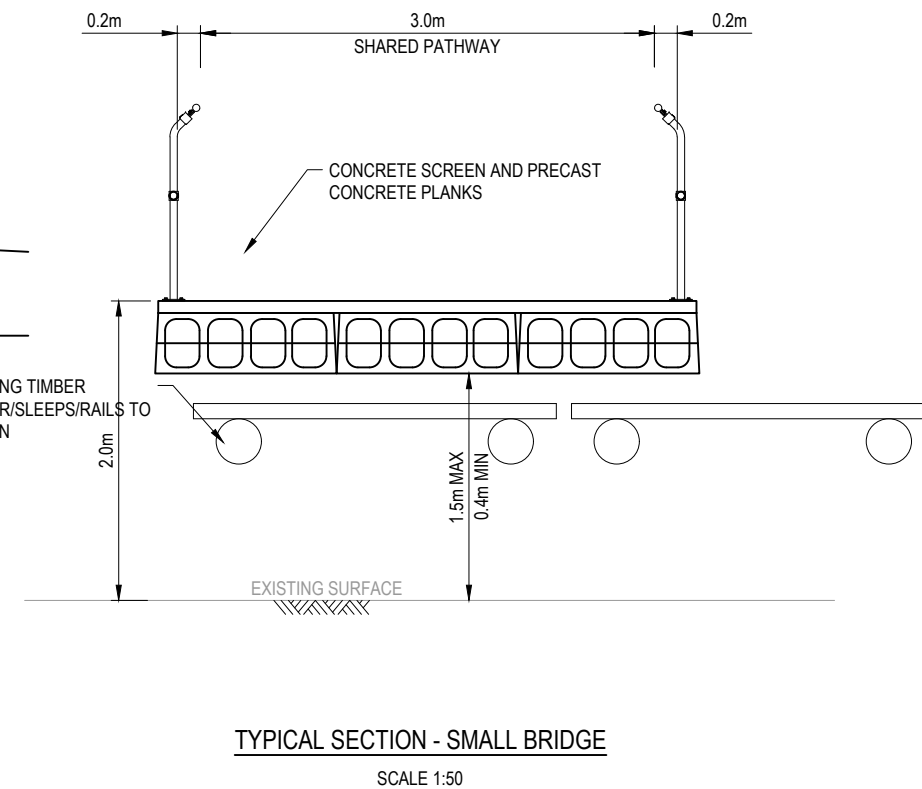
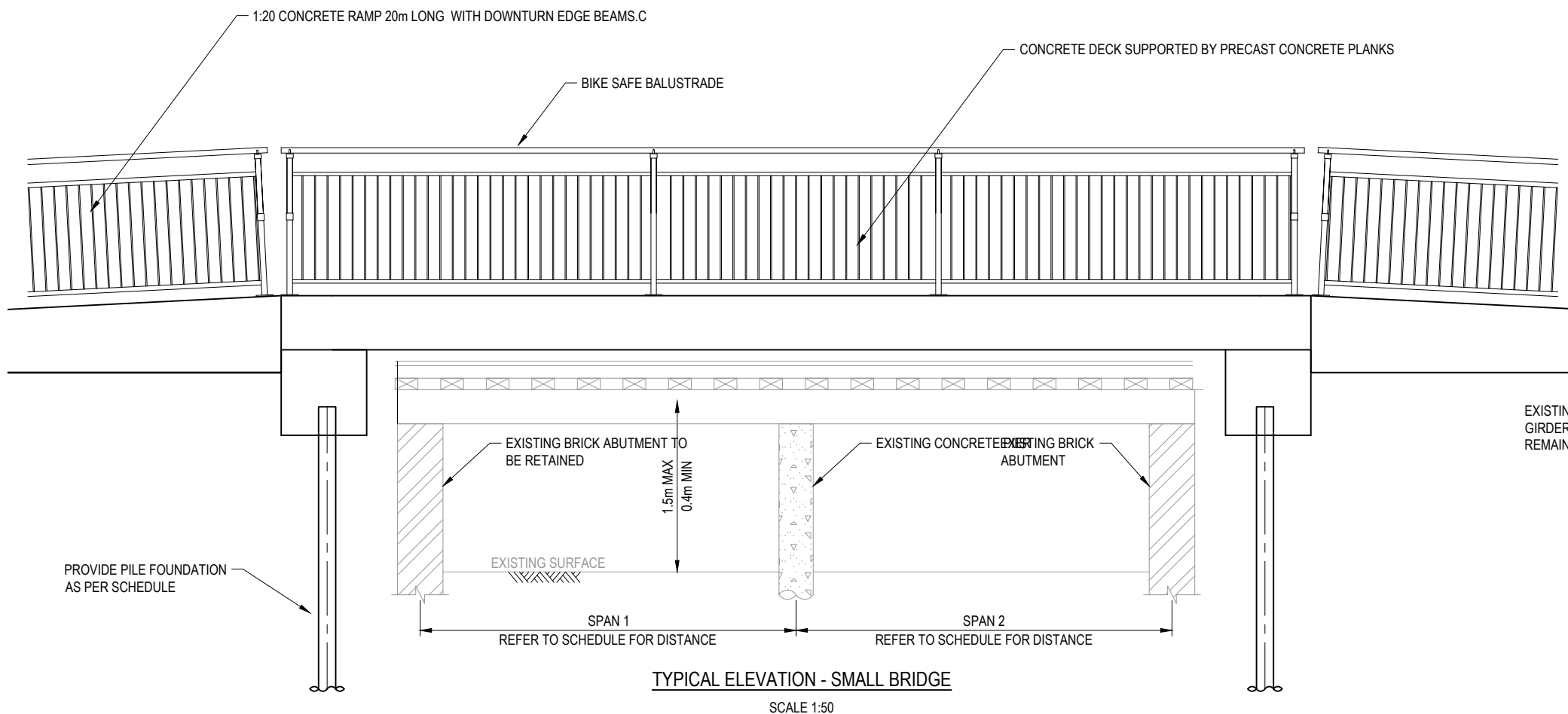
GHD Tower, Level 3 24 Honeysuckle Drive
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E ntlmail@ghd.com W www.ghd.com

DO NOT SCALE	Drawn I.SMITH	Designer L.SCHNEIDER
	Drafting Check	Design Check
	Approved (Project Director)	Date
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	NEWCASTLE CITY COUNCIL
Project	SHORTLAND TO TARRO SHARED PATHWAY
Title	TYPICAL SECTIONS SHEET 1 OF 3
Original Size	A3
Drawing No:	22-18804-C050
Rev:	C

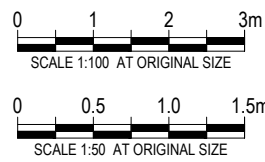


SMALL BRIDGE SCHEDULE			
BRIDGE I.D.	NUMBER OF SPANS	SPAN LENGTH	COMMENTS
H2M1	1	4.4m	NEW BRIDGE TO SPAN 5.4m
H2M2	2	3.2m	NEW BRIDGE TO SPAN 7.2m
H2M3	2	3.1m	NEW BRIDGE TO SPAN 7.2m
H2M4	1	3.3m	NEW BRIDGE TO SPAN 4.3m
H2M5	2	3.3	NEW BRIDGE TO SPAN 7.8m



CONCEPT

No	Revision	Note	Drawn	Job Manager	Project Director	Date
E		SMALL BRIDGE DESIGN AMENDED	H.T	K.R	P.Y	23.06.21
D		MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20
C		CADAstral AMENDED	B.S	K.R	P.Y	12.12.19
B		TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19
A		ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18

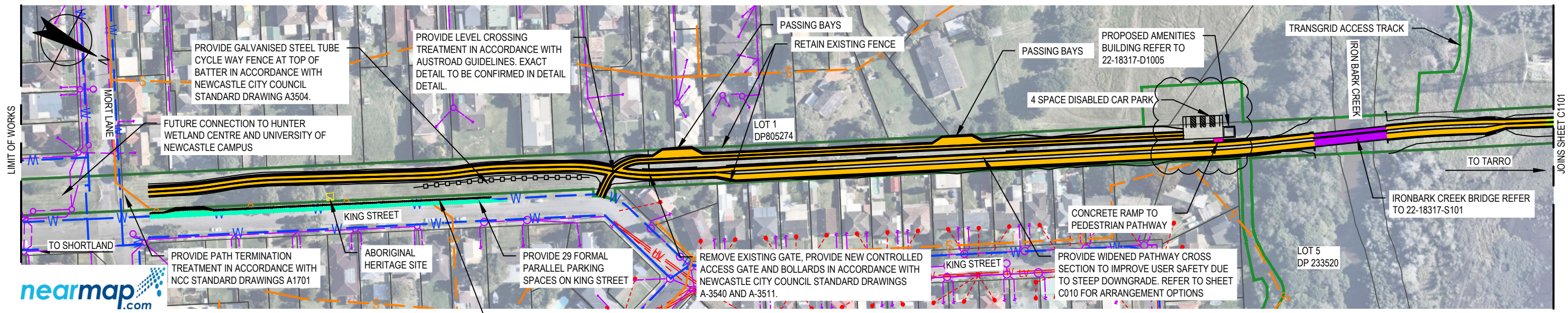


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DO NOT SCALE

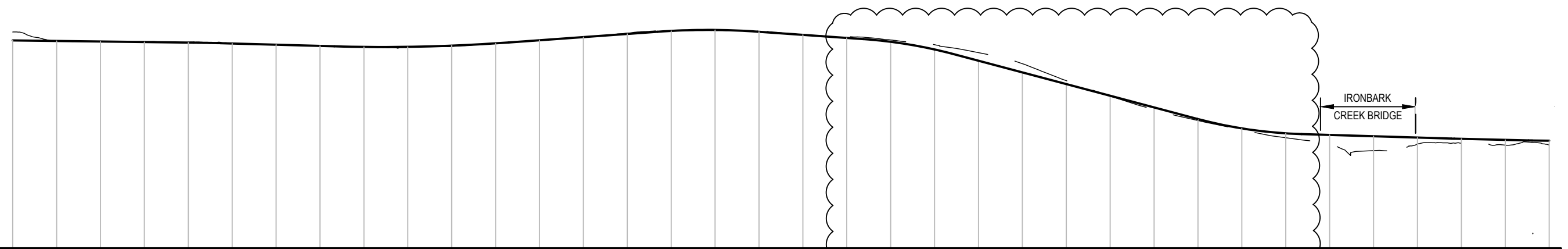
Drawn B.STANKEWYCZ	Designer L.SCHNEIDER	Client CITY OF NEWCASTLE
Drafting Check C.PURDON	Design Check K. ROWE	Project RICHMOND VALE RAIL TRAIL
Approved (Project Director) Date		Title TYPICAL SECTIONS
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Size A3 Drawing No: 22-18317-C1012

Rev: E



PLAN
SCALE 1:2000

29 ON STREET CARPARK SPACES INCLUDING TWO DISABLE.
REFER TO URBAN DESIGN SET OF DRAWINGS 22-18317-D1001



DATUM RL. -17.00

VERTICAL ALIGNMENT	L=82.52m G=-0.49%		K=20 L=12.32m		L=51.68m G=-1.1%		K=20 L=79.48m		L=67.84m G=2.87%		K=8 L=45.34m		L=48.39m G=-2.8%		K=5.3 L=41.06m		L=111.04m G=-10.61%		K=5.1 L=47.54m		L=68.13m G=-1.2%		K=5 L=33.87m G=-0.93%		L=327.63m G=-0.6%											
HORIZONTAL ALIGNMENT	L=7.99m R=200.00m	L=30.49m R=200.00m	L=22.10m R=200.00m	L=4.48m R=200.00m	L=68.64m		L=20.42m R=200.00m	L=7.30m R=200.00m	L=14.40m R=200.00m	L=18.74m R=200.00m	L=59.12m		L=4.61m R=1000.00m	L=82.67m		L=2.84m R=1000.00m	L=80.22m		L=20.16m R=1000.00m	L=176.82m		L=0.02m R=200.00m	L=53.21m	L=20.97m R=1000.00m												
LEVEL DIFFERENCE CUT - / FILL +	-1.54	0.01	0.03	-0.12	-0.07	0.01	0.02	0.02	0.15	0.16	0.02	0.06	0.12	-0.13	0.05	0.09	-0.13	0.01	-0.29	-0.33	-0.87	-1.47	-1.59	-0.62	0.07	0.40	0.28	0.26	0.80	1.71	2.61	1.17	0.80	0.95	0.77	
DESIGN SURFACE LEVEL	20.801	20.704	20.606	20.509	20.412	20.245	20.024	19.804	19.629	19.643	19.857	20.272	20.837	21.411	21.986	22.536	22.707	22.378	21.819	21.259	20.558	19.163	17.116	14.994	12.872	10.750	8.628	6.506	4.809	3.906	3.616	3.376	3.136	2.906	2.721	2.563
EXISTING SURFACE LEVEL	22.34	20.70	20.58	20.63	20.48	20.24	20.01	19.78	19.60	19.49	19.70	20.25	20.77	21.29	22.12	22.49	22.62	22.50	21.81	21.55	20.89	20.03	18.59	16.58	13.49	10.68	8.23	6.23	4.55	3.11	1.90	0.76	1.97	2.10	1.77	1.80
CHAINAGE	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	240.000	260.000	280.000	300.000	320.000	340.000	360.000	380.000	400.000	420.000	440.000	460.000	480.000	500.000	520.000	540.000	560.000	580.000	600.000	620.000	640.000	660.000	680.000	700.000

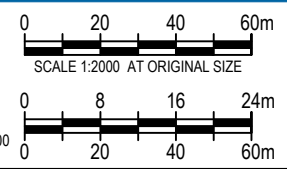
LONGITUDINAL SECTION - SHORTLAND TO TARRO

HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

G	GRADIENT REDUCED TO 10.61% & ADDITIONAL PARKS ADDED	DMC	K.R	P.Y	12.08.21	
F	14.01.20	K.R	K.R	P.Y	16.06.21	
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

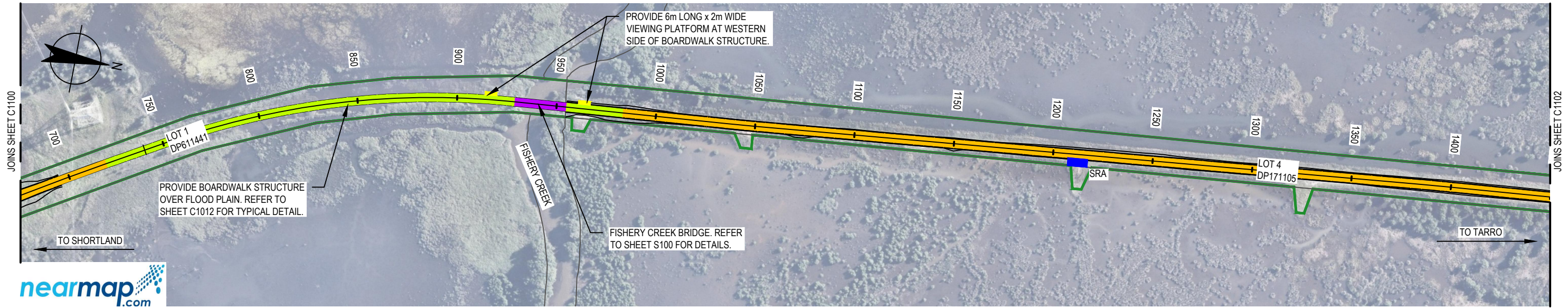
VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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Drawn	B.STANKEWYCZ	Designer	L.SCHNEIDER
Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI
Original Size	A3
Drawing No:	22-18317-C1100
Rev:	G



PLAN
SCALE 1:2000



DATUM RL. -17.00

VERTICAL ALIGNMENT																																				
HORIZONTAL ALIGNMENT	L=20.97m R=1000.00m		L=33.14m		L=176.03m R=400.00m								L=107.57m										L=16.04m R=1000.00m		L=333.92m						L=11.82m R=1000.00m					
LEVEL DIFFERENCE CUT - / FILL +	0.77	0.79	0.80	1.00	1.17	1.45	1.34	1.28	1.18	1.09	0.96	0.81	0.41	0.20	0.27	0.14	-0.01	-0.05	-0.03	-0.03	-0.05	-0.05	0.00	-0.01	0.04	0.07	0.09	0.09	0.09	0.08	0.04	0.05	0.01	0.06	0.07	0.10
DESIGN SURFACE LEVEL	2.563	2.443	2.323	2.203	2.083	1.963	1.843	1.723	1.603	1.483	1.363	1.243	1.123	1.003	0.883	0.763	0.643	0.641	0.664	0.687	0.709	0.732	0.755	0.777	0.800	0.823	0.845	0.868	0.891	0.913	0.936	0.959	0.981	1.004	1.027	1.049
EXISTING SURFACE LEVEL	1.80	1.65	1.52	1.20	0.92	0.51	0.50	0.44	0.43	0.40	0.40	0.43	0.71	0.80	0.61	0.63	0.65	0.69	0.70	0.72	0.76	0.78	0.75	0.78	0.76	0.75	0.76	0.78	0.80	0.84	0.89	0.91	0.97	0.94	0.95	0.95
CHAINAGE	700.000	720.000	740.000	760.000	780.000	800.000	820.000	840.000	860.000	880.000	900.000	920.000	940.000	960.000	980.000	1000.000	1020.000	1040.000	1060.000	1080.000	1100.000	1120.000	1140.000	1160.000	1180.000	1200.000	1220.000	1240.000	1260.000	1280.000	1300.000	1320.000	1340.000	1360.000	1380.000	1400.000

LONGITUDINAL SECTION - SHORTLAND TO TARRO
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

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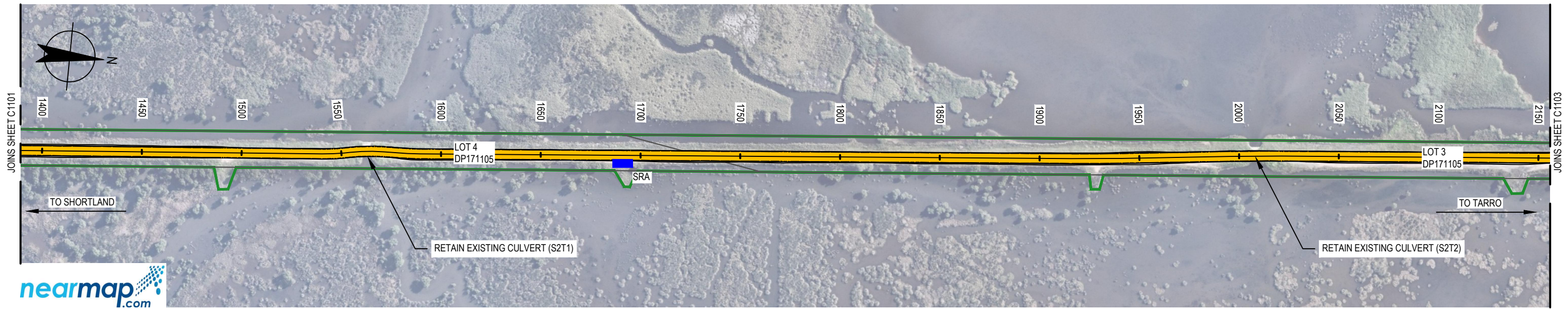
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
Drafting Check C.PURDON Design Check K. ROWE
Approved (Project Director) Date
Scale AS SHOWN

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI SHEET 2 OF 18**

Original Size **A3** Drawing No: **22-18317-C1101** Rev: **D**

This Drawing must not be used for Construction unless signed as Approved



PLAN
SCALE 1:2000

DATUM RL. -16.00

VERTICAL ALIGNMENT																																				
HORIZONTAL ALIGNMENT																																				
LEVEL DIFFERENCE CUT - / FILL +	0.10	0.09	0.04	0.08	0.01	-0.05	-0.06	-0.06	0.02	-0.04	-0.02	-0.02	-0.05	-0.02	0.02	-0.00	0.01	-0.06	-0.03	-0.03	-0.09	-0.04	0.00	-0.02	-0.01	0.01	0.02	0.03	0.04	-0.04	0.03	-0.00	0.01	-0.03	0.02	0.03
DESIGN SURFACE LEVEL	1.049	1.072	1.095	1.117	1.140	1.125	1.009	0.893	1.289	0.975	0.993	0.963	0.933	0.903	0.952	0.994	0.956	0.917	0.879	0.875	0.918	0.961	1.002	1.028	1.054	1.080	1.106	1.132	1.095	1.009	1.249	1.246	1.074	1.105	1.137	1.169
EXISTING SURFACE LEVEL	0.95	0.99	1.05	1.04	1.13	1.18	1.07	0.95	1.27	1.02	1.02	0.98	0.98	0.93	0.93	1.00	0.95	0.97	0.91	0.90	1.00	1.00	1.00	1.05	1.06	1.07	1.09	1.11	1.05	1.05	1.22	1.25	1.06	1.14	1.12	1.14
CHAINAGE	1400.000	1420.000	1440.000	1460.000	1480.000	1500.000	1520.000	1540.000	1560.000	1580.000	1600.000	1620.000	1640.000	1660.000	1680.000	1700.000	1720.000	1740.000	1760.000	1780.000	1800.000	1820.000	1840.000	1860.000	1880.000	1900.000	1920.000	1940.000	1960.000	1980.000	2000.000	2020.000	2040.000	2060.000	2080.000	2100.000

LONGITUDINAL SECTION - SHORTLAND TO TARRO
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

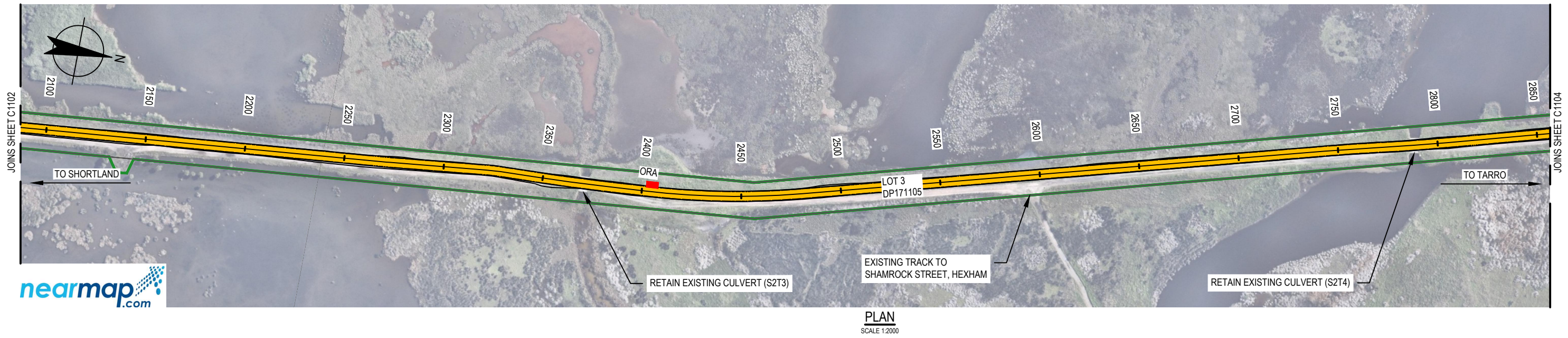
HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

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DO NOT SCALE	Drawn B.STANKEWYCZ	Designer L.SCHNEIDER
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	Approved (Project Director) Date	
	Scale AS SHOWN	This Drawing must not be used for construction unless signed as Approved

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI SHEET 3 OF 18
Original Size	A3
Drawing No:	22-18317-C1102
Rev:	D



DATUM RL. -16.00

VERTICAL ALIGNMENT	$K=20$ $L=6.79m$																																			
HORIZONTAL ALIGNMENT	$L=250.08m$																																			
LEVEL DIFFERENCE CUT - / FILL +	0.03	0.05	0.05	0.03	-0.03	-0.00	0.01	0.04	0.02	0.05	0.04	0.02	0.05	0.18	0.11	0.20	0.04	0.02	0.01	0.02	0.04	0.05	0.03	-0.04	-0.04	0.00	-0.05	-0.01	-0.03	0.01	-0.05	-0.06	-0.06	-0.07	0.08	0.09
DESIGN SURFACE LEVEL	1.169	1.142	1.106	1.069	1.033	0.997	1.078	1.167	1.257	1.309	1.342	1.374	1.407	1.440	1.473	1.506	1.474	1.273	1.197	1.247	1.297	1.272	1.139	1.038	1.069	1.081	1.102	1.123	1.144	1.165	1.187	1.208	1.229	1.250	1.272	1.293
EXISTING SURFACE LEVEL	1.14	1.09	1.05	1.04	1.06	1.00	1.07	1.13	1.24	1.26	1.30	1.36	1.36	1.26	1.37	1.31	1.44	1.26	1.18	1.23	1.26	1.23	1.11	1.07	1.09	1.08	1.15	1.13	1.17	1.16	1.23	1.27	1.29	1.32	1.19	1.21
CHAINAGE	2100.000	2120.000	2140.000	2160.000	2180.000	2200.000	2220.000	2240.000	2260.000	2280.000	2300.000	2320.000	2340.000	2360.000	2380.000	2400.000	2420.000	2440.000	2460.000	2480.000	2500.000	2520.000	2540.000	2560.000	2580.000	2600.000	2620.000	2640.000	2660.000	2680.000	2700.000	2720.000	2740.000	2760.000	2780.000	2800.000

LONGITUDINAL SECTION - SHORTLAND TO TARRO
 HORIZONTAL SCALE 1:2000
 VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE
 HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

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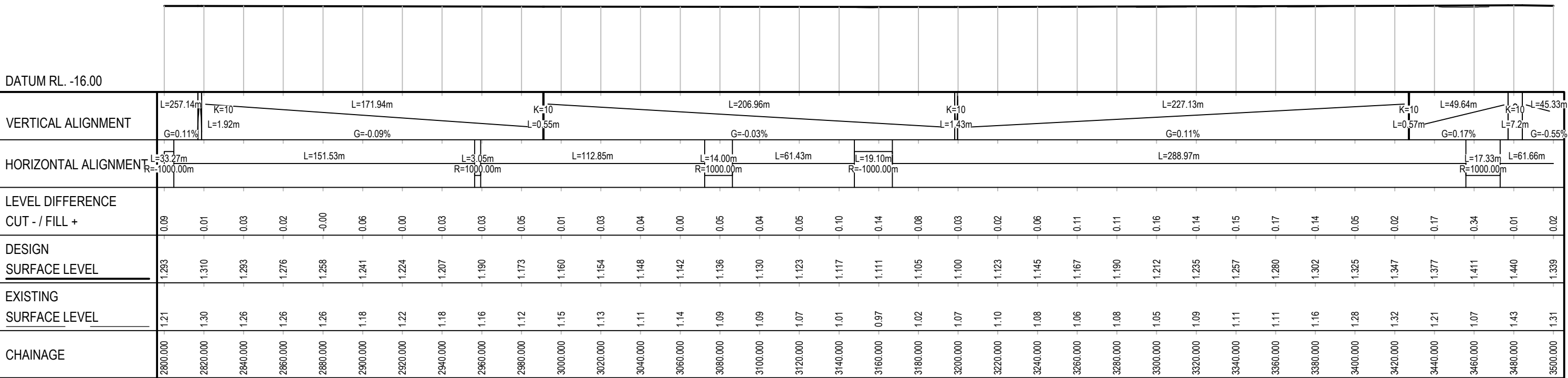
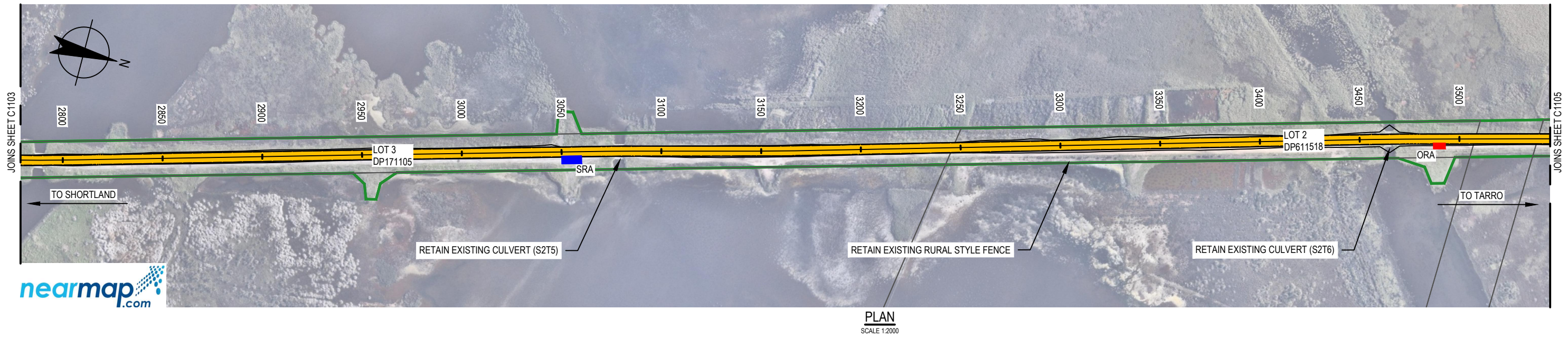
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
 Drafting Check C.PURDON Design Check K. ROWE
 Approved (Project Director) Date
 Scale AS SHOWN

Client **CITY OF NEWCASTLE**
 Project **RICHMOND VALE RAIL TRAIL**
 Title **SHORTLAND TO KURRI KURRI SHEET 4 OF 18**

Original Size **A3** Drawing No: **22-18317-C1103** Rev: **D**

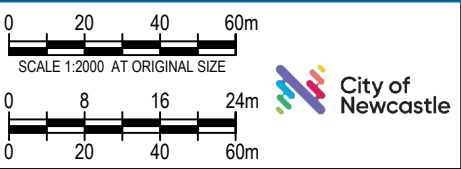


LONGITUDINAL SECTION - SHORTLAND TO TARRO
 HORIZONTAL SCALE 1:2000
 VERTICAL SCALE 1:800

CONCEPT

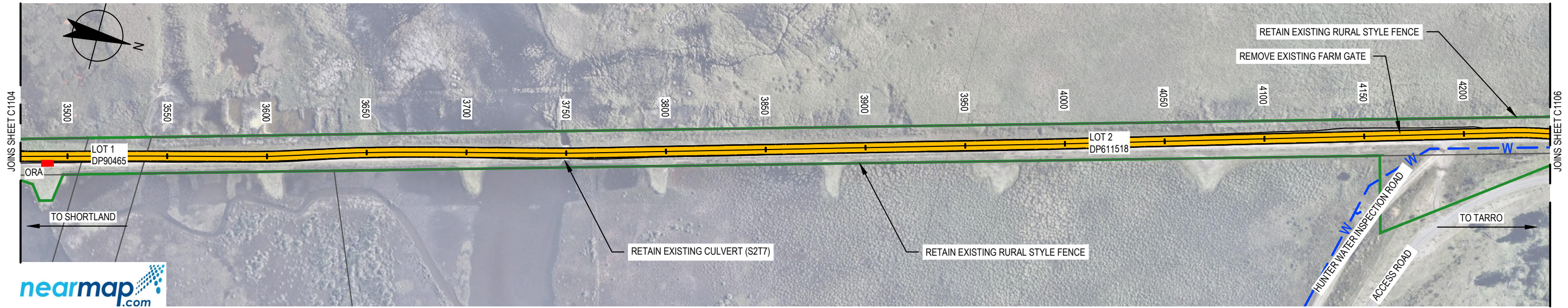
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800
 AT ORIGINAL SIZE
 HORIZONTAL SCALE 1:2000
 AT ORIGINAL SIZE

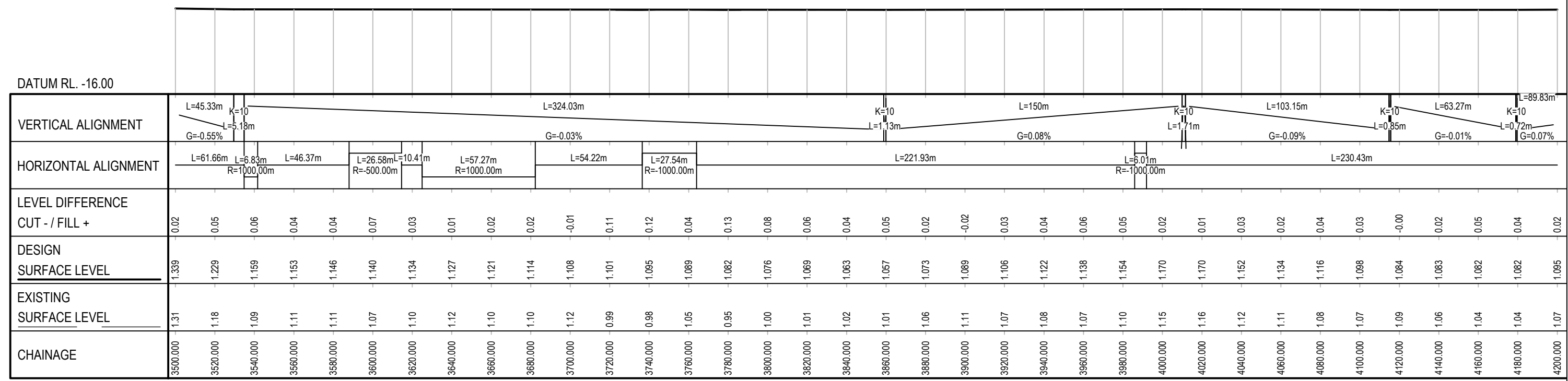


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	Drafting Check	C.PURDON	Design Check	K. ROWE
	Approved (Project Director)	Date		
	Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI
	SHEET 5 OF 18
Original Size	A3
Drawing No:	22-18317-C1104
Rev:	D



PLAN
SCALE 1:2000



LONGITUDINAL SECTION - SHORTLAND TO TARRO
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

GHD Tower, Level 3 24 Honeysuckle Drive
Newcastle NSW 2300 Australia
PO Box 5403 Hunter Rgn Mail Cent, NSW 2310
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E ntmial@ghd.com W www.ghd.com

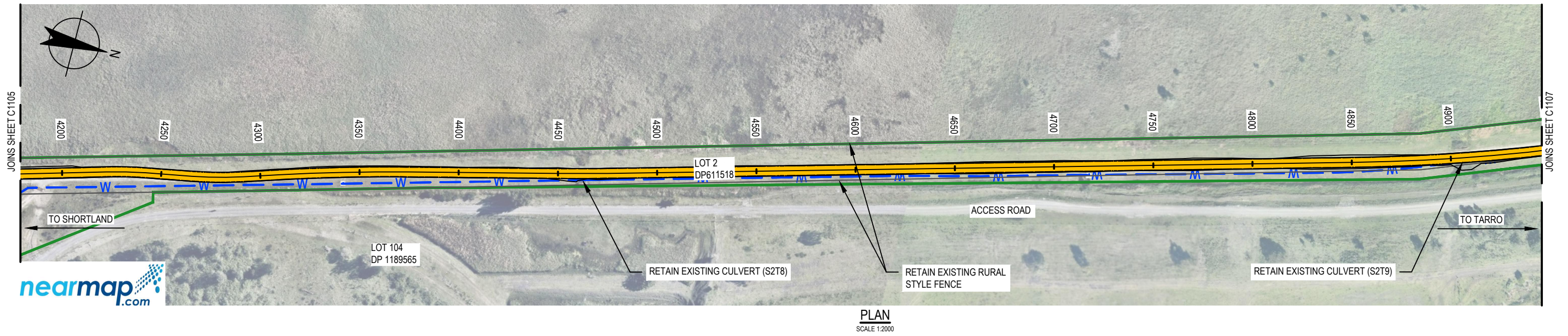
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
Drafting Check C.PURDON Design Check K. ROWE
Approved (Project Director)
Date
Scale AS SHOWN

This Drawing must not be used for construction unless signed as Approved

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI**
Drawing No: **22-18317-C1105** Rev: **D**



DATUM RL. -15.00

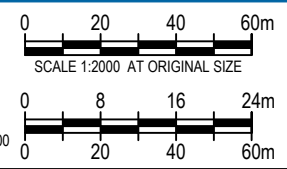
VERTICAL ALIGNMENT																																					
HORIZONTAL ALIGNMENT																																					
LEVEL DIFFERENCE CUT - / FILL +	0.02	0.02	0.00	0.02	0.02	0.04	0.03	0.03	0.04	0.02	-0.00	0.01	0.05	-0.04	0.05	0.02	0.07	0.05	-0.01	0.02	-0.02	0.01	0.03	0.10	0.08	0.07	0.03	0.04	0.11	0.10	0.00	0.08	0.20	0.16	0.06	0.01	
DESIGN SURFACE LEVEL	1.095	1.108	1.121	1.135	1.165	1.213	1.261	1.273	1.263	1.254	1.359	1.520	1.681	1.804	1.632	1.439	1.474	1.525	1.576	1.569	1.551	1.533	1.515	1.497	1.479	1.461	1.443	1.453	1.494	1.534	1.575	1.616	1.656	1.697	1.738	1.748	
EXISTING SURFACE LEVEL	1.07	1.08	1.12	1.11	1.14	1.17	1.23	1.24	1.22	1.23	1.36	1.51	1.63	1.84	1.58	1.42	1.41	1.47	1.58	1.55	1.57	1.53	1.48	1.40	1.40	1.39	1.41	1.42	1.39	1.44	1.57	1.53	1.46	1.53	1.66	1.68	1.74
CHAINAGE	4200.000	4220.000	4240.000	4260.000	4280.000	4300.000	4320.000	4340.000	4360.000	4380.000	4400.000	4420.000	4440.000	4460.000	4480.000	4500.000	4520.000	4540.000	4560.000	4580.000	4600.000	4620.000	4640.000	4660.000	4680.000	4700.000	4720.000	4740.000	4760.000	4780.000	4800.000	4820.000	4840.000	4860.000	4880.000	4900.000	

LONGITUDINAL SECTION - SHORTLAND TO TARRO
 HORIZONTAL SCALE 1:2000
 VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

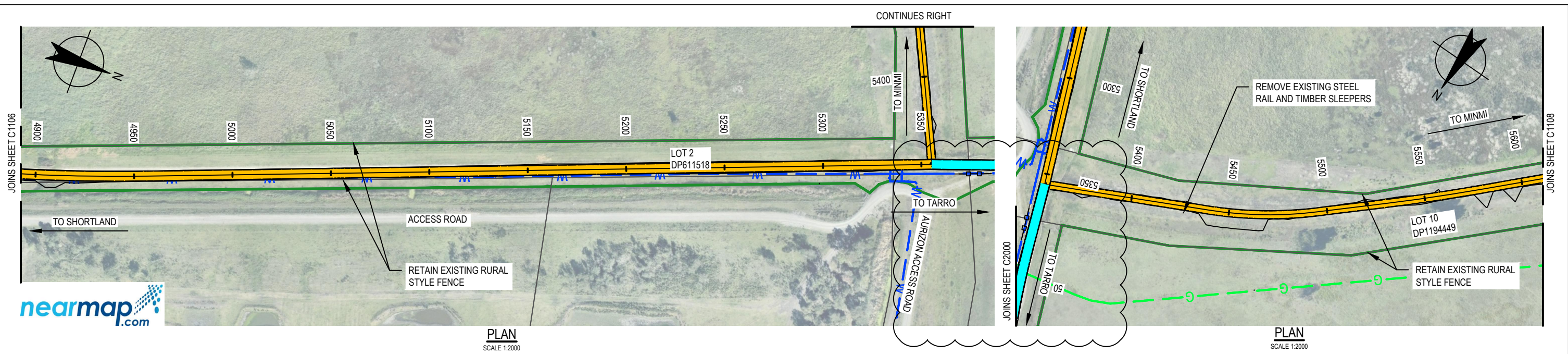
VERTICAL SCALE 1:800
 AT ORIGINAL SIZE
 HORIZONTAL SCALE 1:2000
 AT ORIGINAL SIZE



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Drawn	B.STANKEWYCZ	Designer	L.SCHNEIDER
Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	SHORTLAND TO KURRI KURRI		
	SHEET 7 OF 18		
Original Size	A3	Drawing No:	22-18317-C1106
Rev:	D		



DATUM RL. -15.00

VERTICAL ALIGNMENT																																				
HORIZONTAL ALIGNMENT																																				
LEVEL DIFFERENCE CUT - / FILL +	0.01	0.09	0.07	0.05	0.06	0.04	-0.02	-0.02	0.01	0.03	-0.02	-0.02	0.06	0.07	0.01	-0.01	0.04	0.03	0.02	0.03	0.05	0.03	-0.00	0.11	0.01	0.03	0.08	0.01	-0.01	0.02	-0.01	0.05	0.06	0.01	0.01	0.00
DESIGN SURFACE LEVEL	1.748	1.715	1.683	1.651	1.619	1.587	1.554	1.522	1.522	1.602	1.682	1.762	1.835	1.847	1.860	1.839	1.808	1.776	1.744	1.712	1.724	2.057	2.277	2.242	2.203	2.191	2.192	2.192	2.207	2.223	2.240	2.257	2.274	2.287	2.258	2.229
EXISTING SURFACE LEVEL	1.74	1.62	1.61	1.60	1.56	1.55	1.57	1.54	1.51	1.58	1.70	1.78	1.78	1.78	1.85	1.85	1.77	1.74	1.73	1.68	1.68	2.03	2.28	2.13	2.19	2.16	2.11	2.18	2.21	2.21	2.25	2.21	2.22	2.28	2.25	2.23
CHAINAGE	4900.000	4920.000	4940.000	4960.000	4980.000	5000.000	5020.000	5040.000	5060.000	5080.000	5100.000	5120.000	5140.000	5160.000	5180.000	5200.000	5220.000	5240.000	5260.000	5280.000	5300.000	5320.000	5340.000	5360.000	5380.000	5400.000	5420.000	5440.000	5460.000	5480.000	5500.000	5520.000	5540.000	5560.000	5580.000	5600.000

LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

E	AMENDED AS CLOUDED	E.W	K.R	P.Y	03.03.21	
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

GHD Tower, Level 3 24 Honeysuckle Drive
Newcastle NSW 2300 Australia
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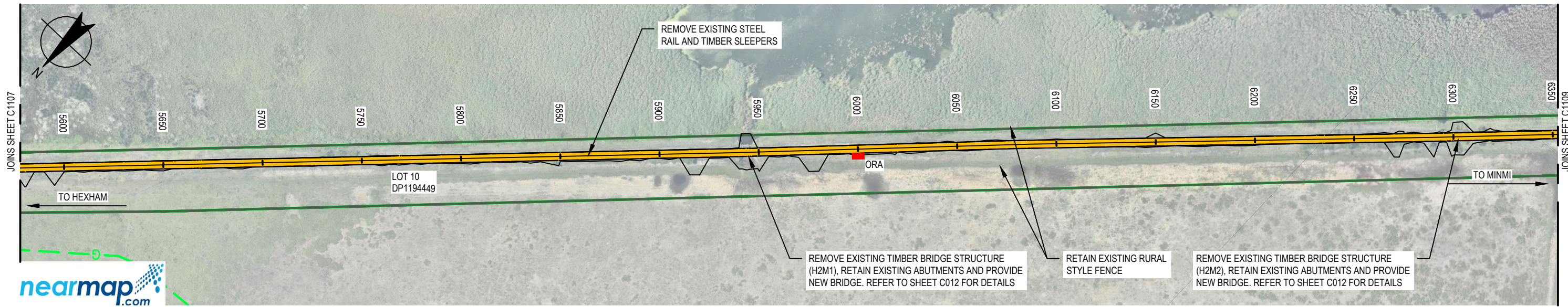
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
Drafting Check C.PURDON Design Check K. ROWE
Approved (Project Director) Date
Scale AS SHOWN

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI SHEET 8 OF 18**

Original Size **A3** Drawing No: **22-18317-C1107** Rev: **E**



PLAN
SCALE 1:2000

DATUM RL. -16.00

VERTICAL ALIGNMENT																																				
HORIZONTAL ALIGNMENT																																				
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.01	0.03	-0.02	-0.04	-0.05	-0.02	0.03	-0.01	0.01	-0.01	-0.02	-0.03	0.00	-0.03	-0.03	0.02	0.07	-0.06	-0.03	-0.00	-0.00	-0.00	0.01	0.01	0.03	0.02	0.01	0.02	-0.03	-0.03	0.00	-0.00	0.04	0.01	0.28
DESIGN SURFACE LEVEL	2.229	2.199	2.170	2.141	2.142	2.163	2.184	2.205	2.226	2.255	2.291	2.327	2.362	2.388	2.403	2.419	2.435	2.451	2.424	2.385	2.346	2.308	2.287	2.266	2.245	2.224	2.203	2.181	2.163	2.144	2.125	2.106	2.117	2.177	2.220	2.226
EXISTING SURFACE LEVEL	2.23	2.19	2.14	2.16	2.18	2.21	2.21	2.18	2.24	2.25	2.30	2.35	2.39	2.39	2.43	2.44	2.42	2.39	2.48	2.42	2.35	2.31	2.29	2.26	2.23	2.20	2.19	2.17	2.14	2.18	2.16	2.10	2.12	2.14	2.21	1.95
CHAINAGE	5600.000	5620.000	5640.000	5660.000	5680.000	5700.000	5720.000	5740.000	5760.000	5780.000	5800.000	5820.000	5840.000	5860.000	5880.000	5900.000	5920.000	5940.000	5960.000	5980.000	6000.000	6020.000	6040.000	6060.000	6080.000	6100.000	6120.000	6140.000	6160.000	6180.000	6200.000	6220.000	6240.000	6260.000	6280.000	6300.000

LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

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Newcastle NSW 2300 Australia
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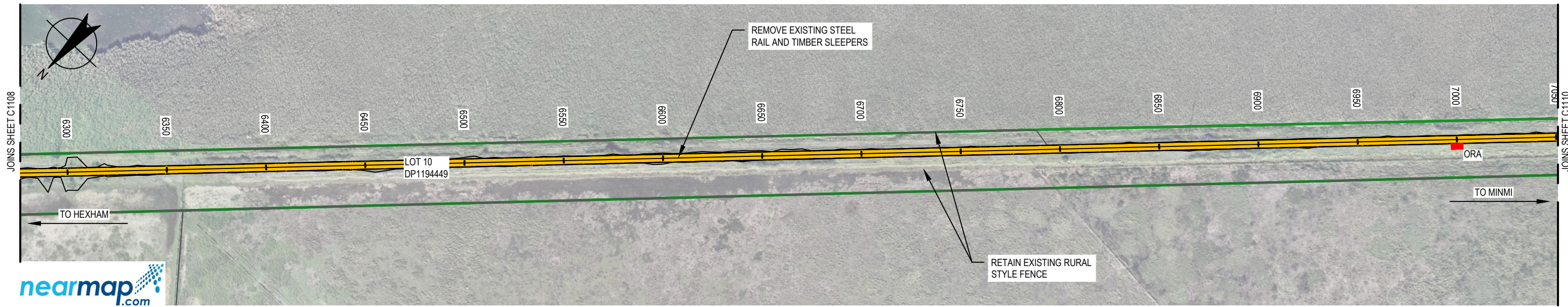
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
Drafting Check C.PURDON Design Check K. ROWE
Approved (Project Director) Date
Scale AS SHOWN

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI**
Drawing No: **22-18317-C1108**

Original Size **A3** Rev: **D**



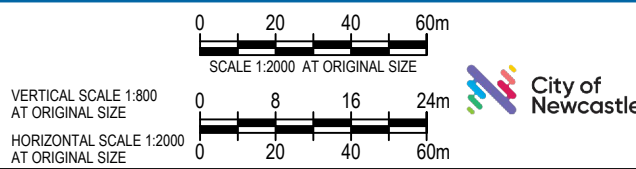
PLAN
SCALE 1:2000

DATUM RL. -15.00	
VERTICAL ALIGNMENT	
HORIZONTAL ALIGNMENT	
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DESIGN SURFACE LEVEL	2.226, 2.216, 2.147, 2.106, 2.096, 2.086, 2.126, 2.202, 2.188, 2.168, 2.148, 2.128, 2.113, 2.109, 2.106, 2.103, 2.099, 2.096, 2.092, 2.089, 2.085, 2.082, 2.079, 2.076, 2.074, 2.071, 2.068, 2.065, 2.063, 2.060, 2.057, 2.054, 2.051, 2.043, 2.023, 2.004
EXISTING SURFACE LEVEL	1.95, 2.18, 2.11, 2.13, 2.13, 2.08, 2.14, 2.21, 2.19, 2.18, 2.18, 2.09, 2.08, 2.08, 2.12, 2.04, 2.01, 2.06, 2.06, 2.04, 2.04, 2.09, 2.00, 2.02, 2.03, 2.11, 2.01, 2.07, 2.02, 1.96, 1.99, 2.03, 2.03, 2.07, 2.00, 2.03
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LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

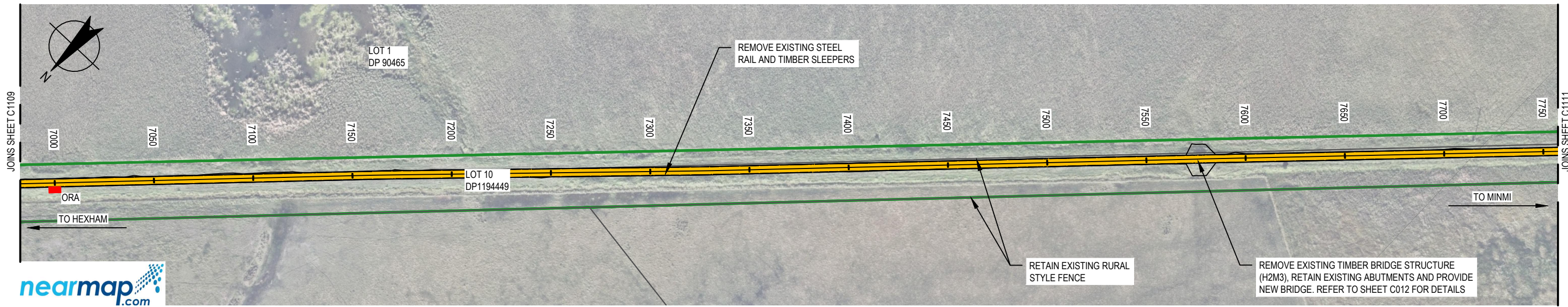
CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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	Drafting Check	C.PURDON	Design Check	K. ROWE
	Approved (Project Director)	Date		
Scale	AS SHOWN			

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI
	SHEET 10 OF 18
Original Size	A3
Drawing No:	22-18317-C1109
Rev:	D



PLAN
SCALE 1:2000

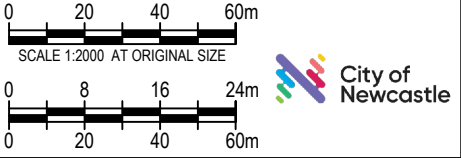
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VERTICAL ALIGNMENT	
HORIZONTAL ALIGNMENT	
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DESIGN SURFACE LEVEL	2.004 1.985 1.966 1.946 1.927 1.908 1.889 1.873 1.862 1.851 1.840 1.829 1.818 1.782 1.746 1.710 1.704 1.701 1.698 1.694 1.707 1.723 1.738 1.753 1.768 1.785 1.852 1.920 1.987 2.023 2.014 2.006 1.997 1.989 1.987 1.986
EXISTING SURFACE LEVEL	2.03 1.98 1.93 1.92 1.84 1.90 1.86 1.94 1.90 1.85 1.87 1.86 1.81 1.87 1.79 1.67 1.70 1.70 1.72 1.70 1.71 1.71 1.77 1.80 1.80 1.79 1.86 1.89 1.99 1.38 2.06 2.05 2.07 1.99 1.98 1.98 2.02
CHAINAGE	7000.000 7020.000 7040.000 7060.000 7080.000 7100.000 7120.000 7140.000 7160.000 7180.000 7200.000 7220.000 7240.000 7260.000 7280.000 7300.000 7320.000 7340.000 7360.000 7380.000 7400.000 7420.000 7440.000 7460.000 7480.000 7500.000 7520.000 7540.000 7560.000 7580.000 7600.000 7620.000 7640.000 7660.000 7680.000 7700.000

LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

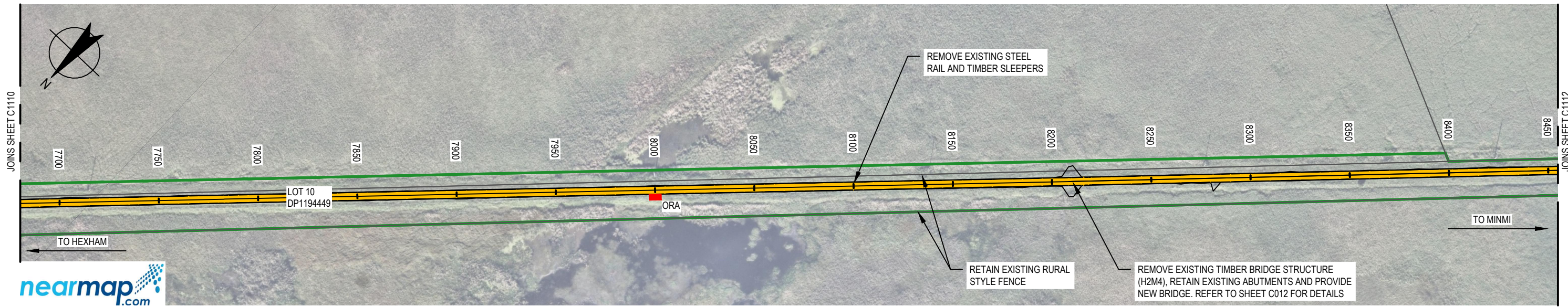
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



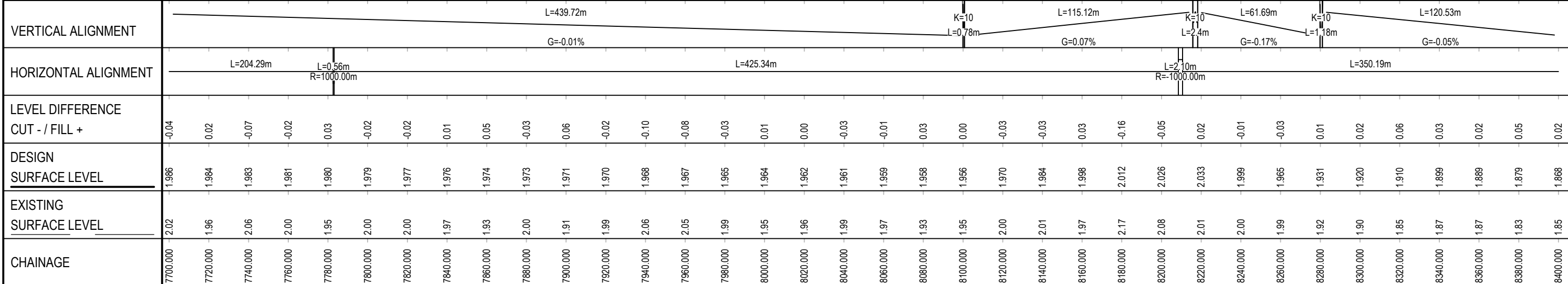
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	Drafting Check	C.PURDON	Design Check	K. ROWE
	Approved (Project Director)	Date		
Scale	AS SHOWN		This Drawing must not be used for construction unless signed as Approved	

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI
	SHEET 11 OF 18
Original Size	A3
Drawing No:	22-18317-C1110
Rev:	D



PLAN
SCALE 1:2000

DATUM RL. -16.00



LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

GHD Tower, Level 3 24 Honeysuckle Drive
Newcastle NSW 2300 Australia
PO Box 5403 Hunter Rgn Mail Cent, NSW 2310
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E ntm@mail@ghd.com W www.ghd.com

DO NOT SCALE

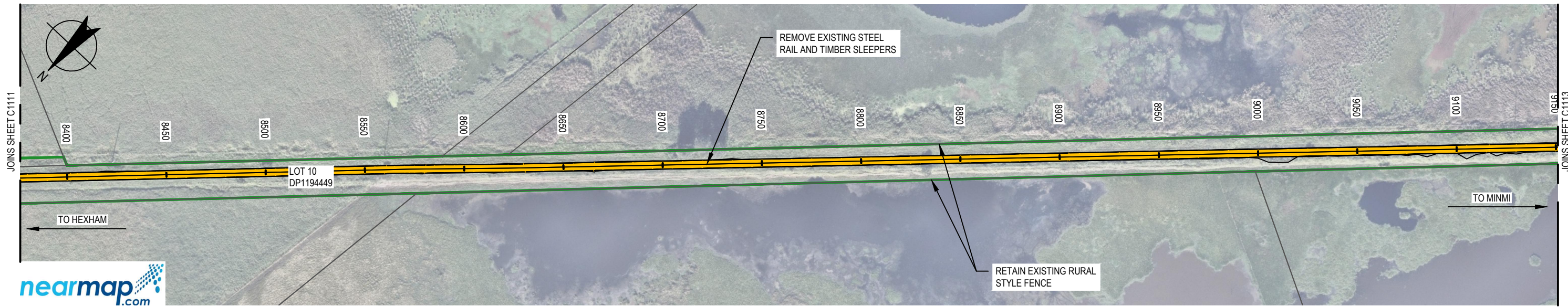
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Drawn B.DREW Designer L.SCHNEIDER
Drafting Check R. COCKS Design Check K. ROWE
Approved (Project Director) Date
Scale AS SHOWN

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI SHEET 12 OF 18**

Original Size **A3** Drawing No: **22-18317-C1111** Rev: **D**

This Drawing must not be used for construction unless signed as Approved



PLAN
SCALE 1:2000

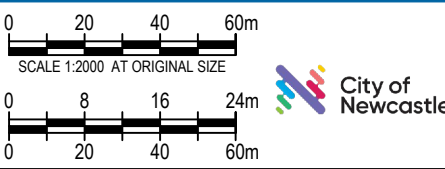
DATUM RL. -15.00																																				
VERTICAL ALIGNMENT	L=120.53m K=10 L=0.42m G=-0.05%	L=92.61m	K=10 L=1.38m	L=83.15m	K=10 L=1.56m	L=84.93m	K=10 L=0.23m	L=237.83m	K=10 L=0.92m	L=211.8m	G=0%																									
HORIZONTAL ALIGNMENT	L=350.19m L=11.51m R=1000.00m L=49.78m L=8.65m R=1000.00m L=685.93m																																			
LEVEL DIFFERENCE CUT - / FILL +	0.02	0.00	0.02	0.00	-0.01	0.05	-0.03	0.03	0.00	0.00	-0.09	0.05	0.07	0.12	-0.03	0.11	0.02	-0.06	-0.06	0.03	-0.03	0.08	-0.01	0.04	-0.00	-0.03	-0.13	-0.10	-0.05	0.07	-0.02	-0.12	-0.16	-0.07	-0.18	-0.12
DESIGN SURFACE LEVEL	1.868	1.850	1.831	1.813	1.794	1.781	1.790	1.799	1.808	1.816	1.794	1.772	1.750	1.727	1.708	1.691	1.673	1.655	1.637	1.619	1.602	1.584	1.566	1.548	1.531	1.513	1.509	1.510	1.511	1.511	1.512	1.513	1.513	1.514	1.515	1.515
EXISTING SURFACE LEVEL	1.85	1.85	1.81	1.81	1.80	1.73	1.82	1.77	1.81	1.81	1.88	1.72	1.68	1.61	1.73	1.58	1.65	1.71	1.70	1.59	1.63	1.50	1.57	1.51	1.53	1.55	1.63	1.61	1.56	1.44	1.53	1.63	1.67	1.58	1.70	1.63
CHAINAGE	8400.000	8420.000	8440.000	8460.000	8480.000	8500.000	8520.000	8540.000	8560.000	8580.000	8600.000	8620.000	8640.000	8660.000	8680.000	8700.000	8720.000	8740.000	8760.000	8780.000	8800.000	8820.000	8840.000	8860.000	8880.000	8900.000	8920.000	8940.000	8960.000	8980.000	9000.000	9020.000	9040.000	9060.000	9080.000	9100.000

LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	23.09.16	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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	Drafting Check	C.PURDON	Design Check	K. ROWE
	Approved (Project Director)	Date		
	Scale	AS SHOWN		

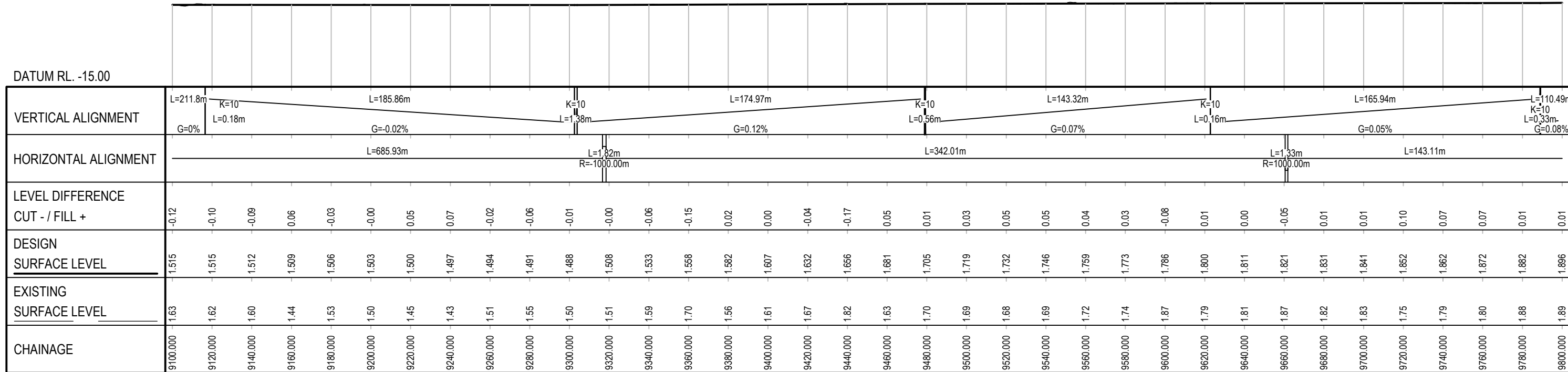
Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI**
SHEET 13 OF 18

Original Size **A3** Drawing No: **22-18317-C1112** Rev: **D**

This Drawing must not be used for construction unless signed as Approved



PLAN
SCALE 1:2000

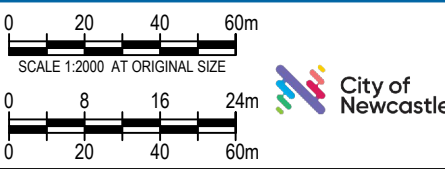


LONGITUDINAL SECTION - HEXHAM TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

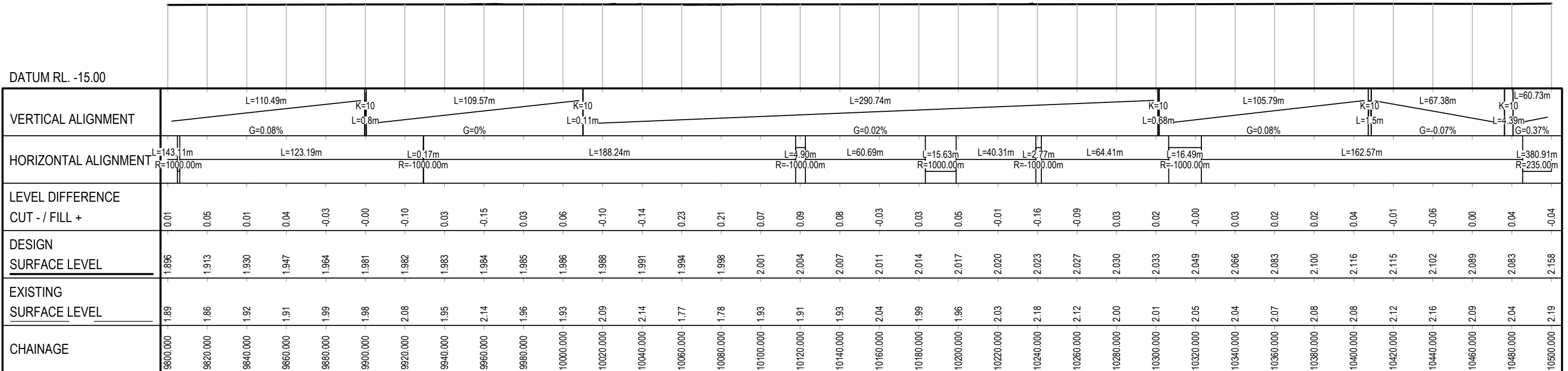
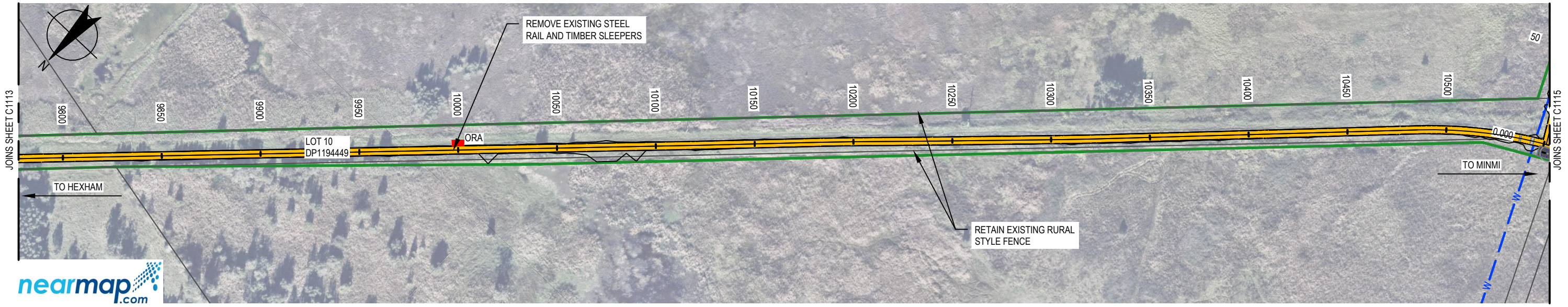
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18
No	Revision	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE



DO NOT SCALE	Drawn B.STANKEWYCZ	Designer L.SCHNEIDER
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	Approved (Project Director) Date	
	Scale AS SHOWN	This Drawing must not be used for construction unless signed as Approved

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI SHEET 14 OF 18
Original Size	A3
Drawing No:	22-18317-C1113
Rev:	D

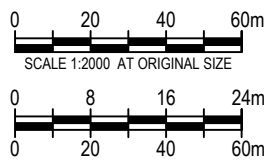


LONGITUDINAL SECTION - HEXHAM TO MINMI
 HORIZONTAL SCALE 1:2000
 VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18
No	Revision	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE
 HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

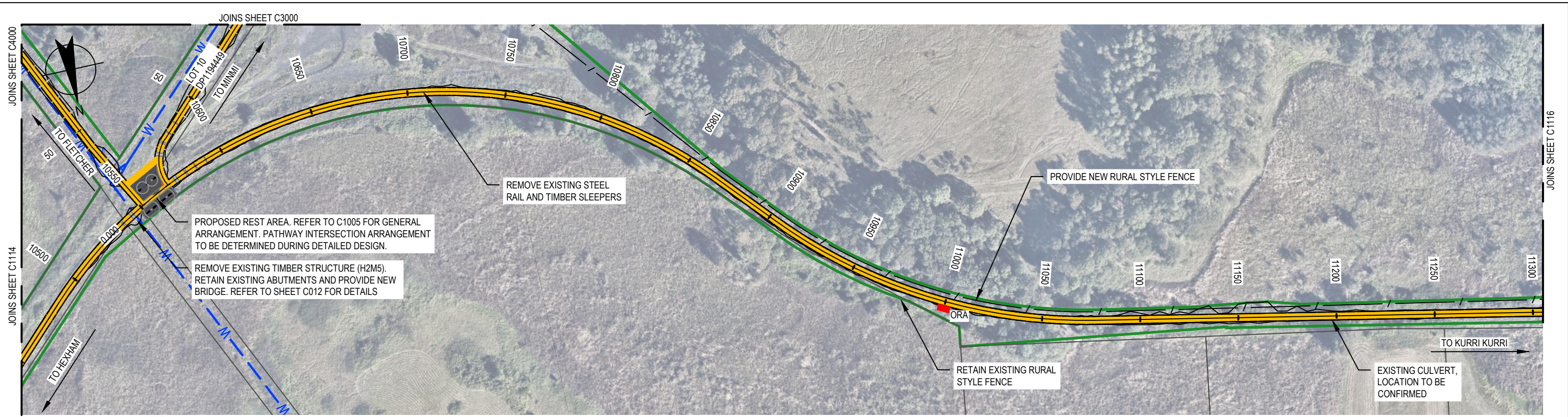


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Drawn	B.STANKEWYCZ	Designer	L.SCHNEIDER
Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI SHEET 15 OF 18
Original Size	A3
Drawing No:	22-18317-C1114
Rev:	D



PLAN
SCALE 1:2000

DATUM RL. -15.00	
VERTICAL ALIGNMENT	L=60.73m K=10 L=32.66m K=10 L=57.01m K=10 L=79.49m K=10 L=506.64m G=0.37% L=7.54m G=-0.38% L=6.39m G=0.26% L=5.53m G=-0.29% L=5.37m G=0.24%
HORIZONTAL ALIGNMENT	L=380.91m R=235.00m L=37.42m L=173.08m R=270.00m L=361.06m
LEVEL DIFFERENCE CUT - / FILL +	-0.04 0.02 0.00 -0.01 0.04 -0.03 -0.10 0.03 -0.14 -0.14 -0.05 0.03 0.20 0.07 0.10 -0.02 -0.01 -0.04 0.01 0.07 0.07 0.01 -0.03 -0.05 0.04 0.08 0.03 -0.09 -0.01 0.12 0.20 0.19 -0.01 0.13 0.14 -0.01
DESIGN SURFACE LEVEL	2.158 2.232 2.307 2.269 2.193 2.214 2.266 2.318 2.302 2.243 2.184 2.125 2.106 2.154 2.203 2.251 2.300 2.348 2.397 2.445 2.494 2.542 2.591 2.639 2.688 2.737 2.785 2.834 2.882 2.931 2.979 3.028 3.076 3.125 3.173 3.222
EXISTING SURFACE LEVEL	2.19 2.21 2.31 2.28 2.16 2.25 2.36 2.29 2.44 2.38 2.24 2.10 1.90 2.09 2.11 2.28 2.31 2.38 2.38 2.38 2.42 2.53 2.62 2.69 2.65 2.66 2.76 2.93 2.89 2.81 2.77 2.84 3.09 3.00 3.03 3.23
CHAINAGE	10500.000 10520.000 10540.000 10560.000 10580.000 10600.000 10620.000 10640.000 10660.000 10680.000 10700.000 10720.000 10740.000 10760.000 10780.000 10800.000 10820.000 10840.000 10860.000 10880.000 10900.000 10920.000 10940.000 10960.000 10980.000 11000.000 11020.000 11040.000 11060.000 11080.000 11100.000 11120.000 11140.000 11160.000 11180.000 11200.000

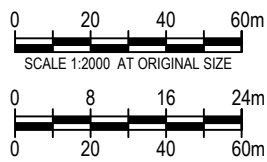
LONGITUDINAL SECTION - MINMI JUNCTION TO KURRI KURRI

HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18
No	Revision	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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Drawn	B.STANKEWYCZ	Designer	L.SCHNEIDER
Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

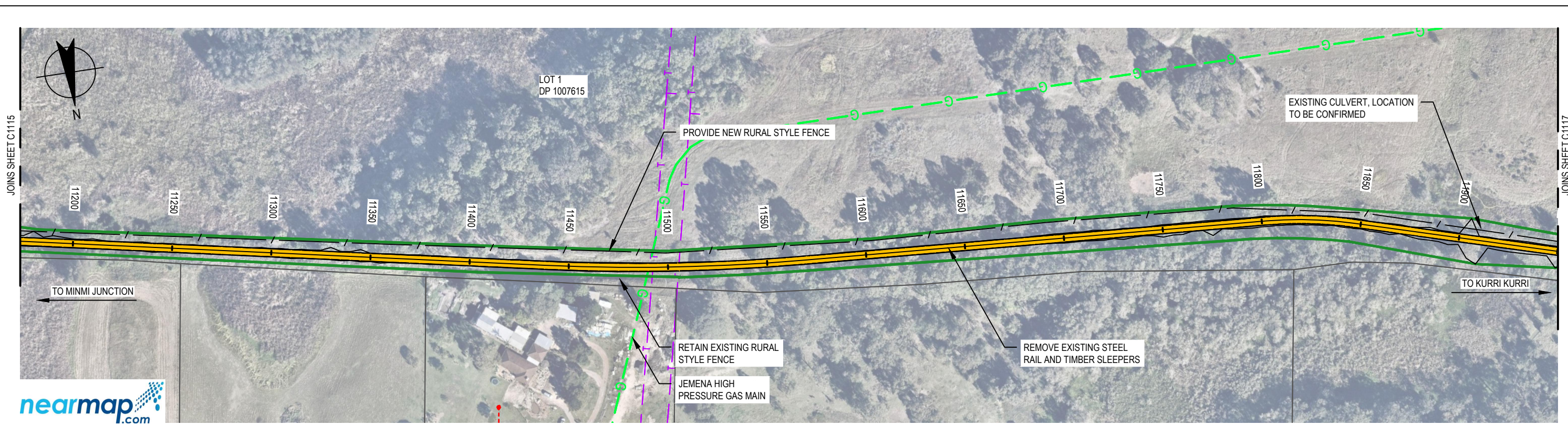
This Drawing must not be used for construction unless signed as Approved

Client
Project
Title

**CITY OF NEWCASTLE
RICHMOND VALE RAIL TRAIL
SHORTLAND TO KURRI KURRI
SHEET 16 OF 18**

Original Size
Drawing No: **22-18317-C1115**

Rev: D



PLAN
SCALE 1:2000

DATUM RL. -13.00

VERTICAL ALIGNMENT	L=506.64m K=10 L=6.45m G=0.24%		L=257.28m G=0.89%										K=50 L=66.44m		L=491.51m G=-0.44%																					
HORIZONTAL ALIGNMENT	L=361.06m										L=130.15m R=-1000.00m		L=234.21m										L=44.28m R=200.00m		L=178.66m											
LEVEL DIFFERENCE CUT - / FILL +	-0.01	-0.02	-0.04	0.03	0.06	0.09	0.12	0.18	0.19	0.09	0.10	0.01	-0.05	-0.09	-0.20	-0.24	-0.13	0.02	0.03	-0.04	-0.04	-0.05	0.05	0.04	0.06	0.15	0.18	0.21	0.21	-0.10	0.18	0.15	0.17	0.07	0.16	0.22
DESIGN SURFACE LEVEL	3.222	3.270	3.319	3.463	3.640	3.818	3.996	4.173	4.351	4.528	4.706	4.883	5.061	5.238	5.416	5.593	5.750	5.831	5.831	5.757	5.669	5.581	5.493	5.404	5.316	5.228	5.140	5.052	4.963	4.875	4.787	4.699	4.610	4.522	4.434	4.346
EXISTING SURFACE LEVEL	3.23	3.29	3.35	3.43	3.58	3.73	3.88	3.99	4.16	4.44	4.61	4.88	5.11	5.32	5.61	5.83	5.88	5.81	5.80	5.79	5.71	5.63	5.44	5.37	5.25	5.08	4.96	4.84	4.75	4.61	4.55	4.44	4.45	4.28	4.13	
CHAINAGE	11200.000	11220.000	11240.000	11260.000	11280.000	11300.000	11320.000	11340.000	11360.000	11380.000	11400.000	11420.000	11440.000	11460.000	11480.000	11500.000	11520.000	11540.000	11560.000	11580.000	11600.000	11620.000	11640.000	11660.000	11680.000	11700.000	11720.000	11740.000	11760.000	11780.000	11800.000	11820.000	11840.000	11860.000	11880.000	11900.000

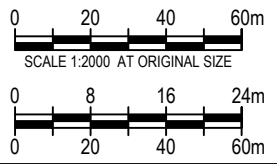
LONGITUDINAL SECTION - MINMI JUNCTION TO KURRI KURRI

HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

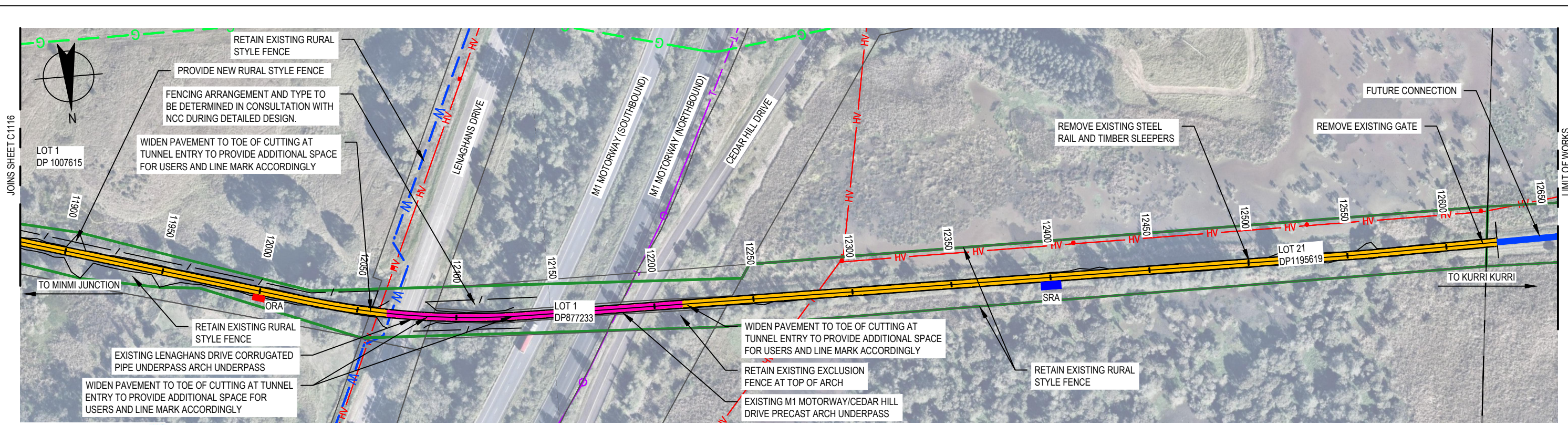
VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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Drawn	B.STANKEWYCZ	Designer	L.SCHNEIDER
Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	SHORTLAND TO KURRI KURRI
	SHEET 17 OF 18
Original Size	A3
Drawing No:	22-18317-C1116
Rev:	D



PLAN
SCALE 1:2000



DATUM RL. -15.00

VERTICAL ALIGNMENT																																					
HORIZONTAL ALIGNMENT																																					
LEVEL DIFFERENCE CUT - / FILL +	0.22	0.24	0.23	0.19	0.23	0.18	0.04	0.01	-0.01	-5.61	-0.23	-0.10	-7.21	-7.74	-8.14	-6.73	0.04	0.05	0.07	0.11	0.06	-0.03	0.15	0.17	0.03	0.20	-0.00	0.03	-0.13	-0.11	0.05	0.03	0.04	-0.07	0.05	0.04	
DESIGN SURFACE LEVEL	4.346	4.258	4.169	4.081	3.993	3.905	3.816	3.728	3.640	3.513	3.373	3.233	3.093	2.953	2.813	2.673	2.533	2.393	2.253	2.113	1.976	1.977	1.991	2.005	2.019	2.033	2.047	2.061	2.075	2.089	2.103	2.117	2.130	2.144	2.158	2.172	
EXISTING SURFACE LEVEL	4.13	4.02	3.94	3.89	3.76	3.72	3.77	3.72	3.65	3.12	3.60	3.33	3.30	3.03	2.70	2.95	2.50	2.34	2.19	2.00	1.91	2.01	1.84	1.83	1.99	1.84	2.05	2.03	2.20	2.20	2.06	2.09	2.09	2.09	2.21	2.11	2.13
CHAINAGE	11900.000	11920.000	11940.000	11960.000	11980.000	12000.000	12020.000	12040.000	12060.000	12080.000	12100.000	12120.000	12140.000	12160.000	12180.000	12200.000	12220.000	12240.000	12260.000	12280.000	12300.000	12320.000	12340.000	12360.000	12380.000	12400.000	12420.000	12440.000	12460.000	12480.000	12500.000	12520.000	12540.000	12560.000	12580.000	12600.000	

LONGITUDINAL SECTION - MINMI JUNCTION TO KURRI KURRI

HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

GHD Tower, Level 3 24 Honeysuckle Drive
Newcastle NSW 2300 Australia
PO Box 5403 Hunter Rgn Mail Cent, NSW 2310
T 61 2 4979 9999 F 61 2 4979 9988
E ntmial@ghd.com W www.ghd.com

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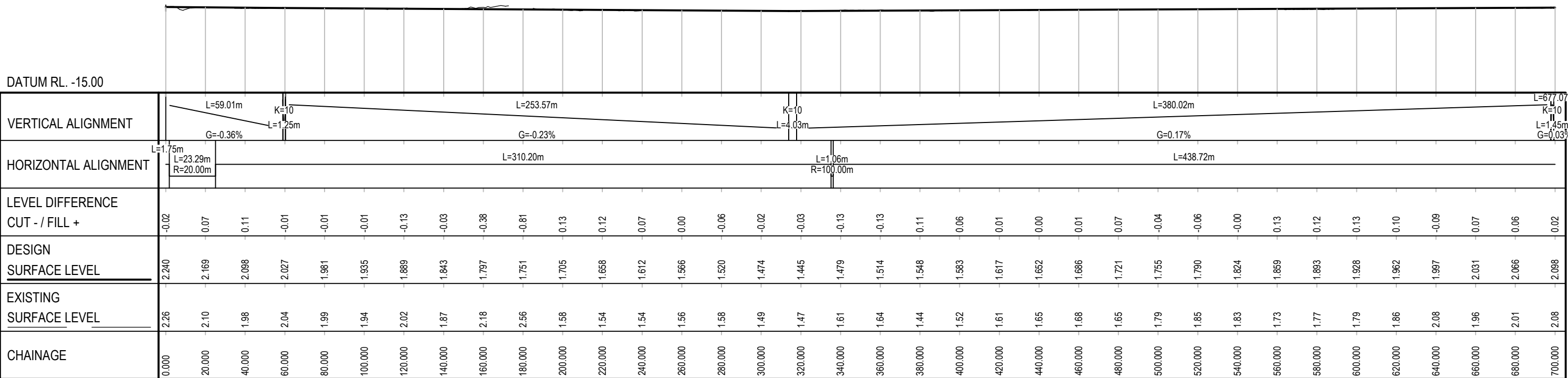
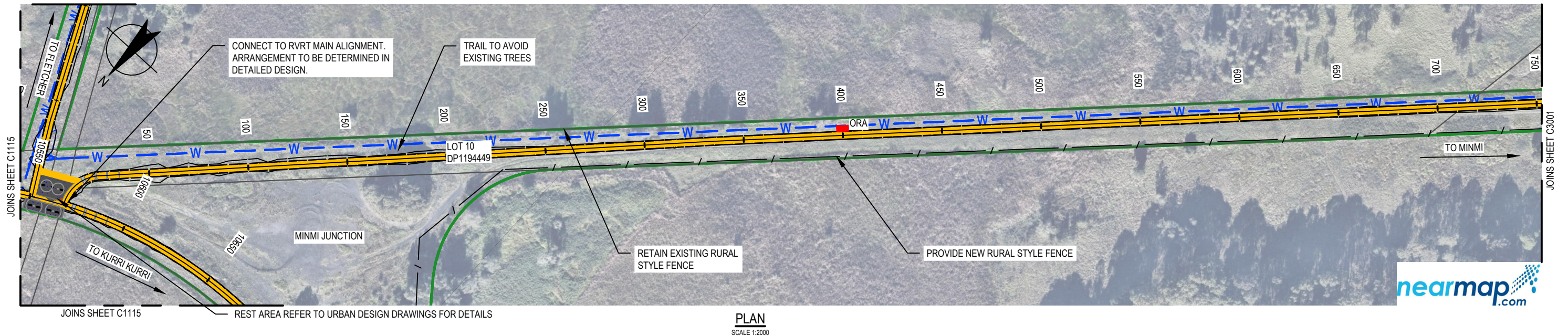
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
Drafting Check C.PURDON Design Check K. ROWE
Approved (Project Director)
Date
Scale AS SHOWN

This Drawing must not be used for construction unless signed as Approved

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **SHORTLAND TO KURRI KURRI**
Drawing No: **22-18317-C1117**

Original Size **A3** Rev: **D**



LONGITUDINAL SECTION - MINMI JUNCTION TO MINMI
 HORIZONTAL SCALE 1:2000
 VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18
No	Revision	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE
 HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

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 Newcastle NSW 2300 Australia
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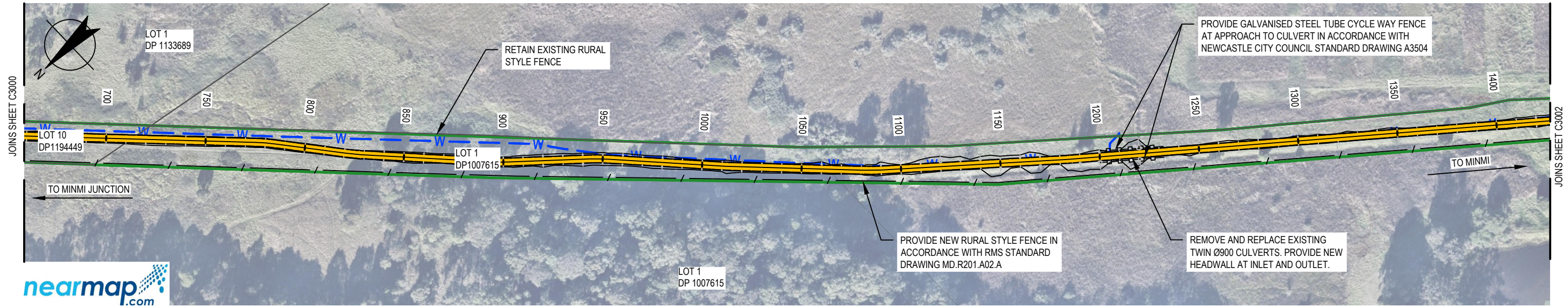
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
 Drafting Check C.PURDON Design Check K. ROWE
 Approved (Project Director)
 Date
 Scale AS SHOWN

Client **CITY OF NEWCASTLE**
 Project **RICHMOND VALE RAIL TRAIL**
 Title **MINMI JUNCTION TO MINMI**
 SHEET 1 OF 3

Original Size **A3** Drawing No: **22-18317-C3000** Rev: **D**



PLAN
SCALE 1:2000

DATUM RL. -15.00																																				
VERTICAL ALIGNMENT																																				
HORIZONTAL ALIGNMENT																																				
LEVEL DIFFERENCE CUT - / FILL +	0.02	0.09	0.11	0.03	-0.01	0.07	0.16	0.18	0.09	0.08	0.03	0.32	0.42	0.39	0.42	0.31	0.27	0.25	0.24	0.10	0.22	0.19	0.15	0.13	0.05	0.04	-0.06	-0.03	0.13	0.13	0.05	0.04	0.07	0.06	0.01	0.14
DESIGN SURFACE LEVEL	2.098	2.104	2.109	2.115	2.120	2.126	2.131	2.137	2.142	2.147	2.153	2.158	2.164	2.169	2.175	2.180	2.186	2.191	2.196	2.202	2.207	2.213	2.218	2.224	2.229	2.235	2.240	2.245	2.251	2.256	2.262	2.267	2.273	2.278	2.280	2.801
EXISTING SURFACE LEVEL	2.08	2.02	2.00	2.08	2.13	2.05	1.97	1.96	2.05	2.06	2.12	1.84	1.75	1.78	1.75	1.87	1.92	1.94	1.96	2.10	1.98	2.02	2.06	2.09	2.18	2.19	2.30	2.28	2.12	2.13	2.21	2.23	2.20	2.22	2.28	2.36
CHAINAGE	700.000	720.000	740.000	760.000	780.000	800.000	820.000	840.000	860.000	880.000	900.000	920.000	940.000	960.000	980.000	1000.000	1020.000	1040.000	1060.000	1080.000	1100.000	1120.000	1140.000	1160.000	1180.000	1200.000	1220.000	1240.000	1260.000	1280.000	1300.000	1320.000	1340.000	1360.000	1380.000	1400.000

LONGITUDINAL SECTION - MINMI JUNCTION TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

City of Newcastle

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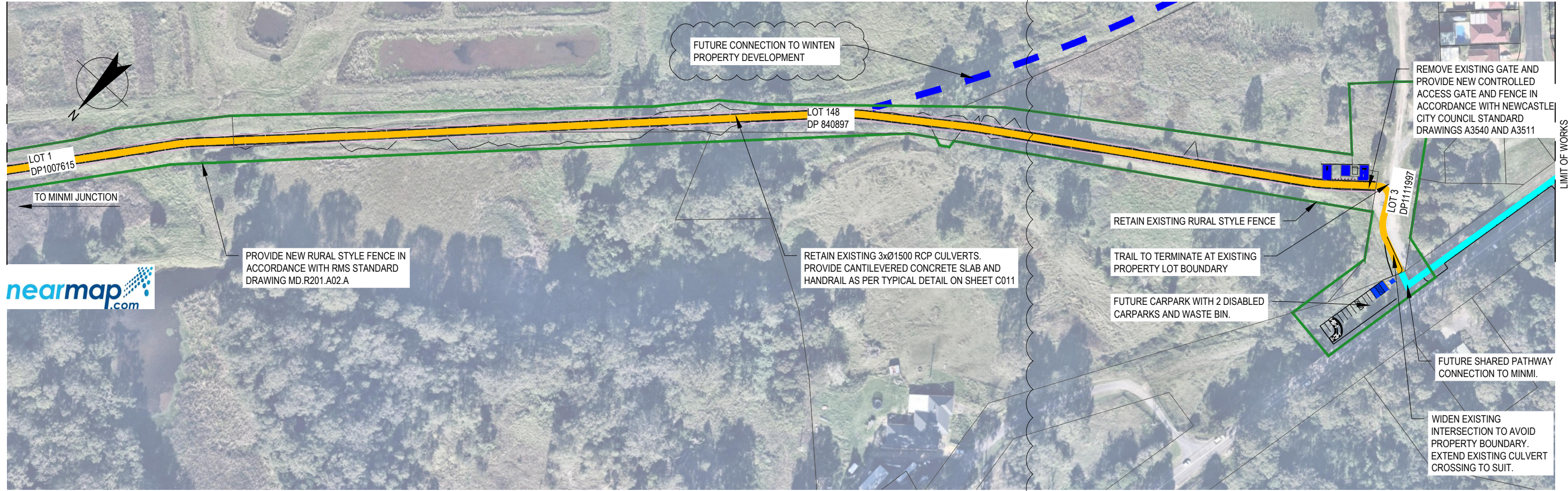
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Drawn B.STANKEWYCZ Designer L.SCHNEIDER
Drafting Check C.PURDON Design Check K. ROWE
Approved (Project Director) Date
Scale AS SHOWN

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **MINMI JUNCTION TO MINMI**
SHEET 2 OF 3

Original Size **A3** Drawing No: **22-18317-C3001** Rev: **D**

JOINS EAST CDRG 22-18317-C299



PLAN
SCALE 1:2000

DATUM RL. -14.00

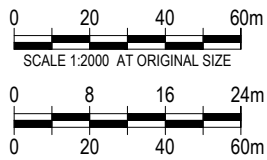
VERTICAL ALIGNMENT																																	
HORIZONTAL ALIGNMENT																																	
LEVEL DIFFERENCE CUT - / FILL +	0.14	-0.01	0.16	0.22	0.12	0.02	0.09	0.05	0.04	-0.07	-0.01	0.01	0.01	0.13	0.23	0.63	-0.01	0.05	0.06	0.04	0.03	-0.00	-0.01	0.03	0.06	0.07	0.08	0.07	-0.02	-0.04	0.03	0.05	0.00
DESIGN SURFACE LEVEL	2.501	2.748	2.995	3.241	3.488	3.735	3.972	4.083	4.191	4.299	4.407	4.515	4.567	4.525	4.483	4.441	4.399	4.381	4.505	4.630	4.754	4.879	5.026	5.229	5.432	5.635	5.838	6.041	6.322	6.634	7.006	7.723	8.215
EXISTING SURFACE LEVEL	2.36	2.76	2.83	3.02	3.37	3.71	3.88	4.03	4.15	4.37	4.41	4.50	4.56	4.40	4.26	3.81	4.41	4.33	4.44	4.59	4.73	4.88	5.03	5.20	5.38	5.56	5.76	5.97	6.34	6.67	6.98	7.67	8.21
CHAINAGE	1400.000	1420.000	1440.000	1460.000	1480.000	1500.000	1520.000	1540.000	1560.000	1580.000	1600.000	1620.000	1640.000	1660.000	1680.000	1700.000	1720.000	1740.000	1760.000	1780.000	1800.000	1820.000	1840.000	1860.000	1880.000	1900.000	1920.000	1940.000	1960.000	1980.000	2000.000	2020.000	2031.862

LONGITUDINAL SECTION - MINMI JUNCTION TO MINMI
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

F	AMENDED AS CLOUDED	K.R	K.R	P.Y	23.06.21	
E	AMENDED AS CLOUDED	E.W	K.R	P.Y	03.03.21	
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

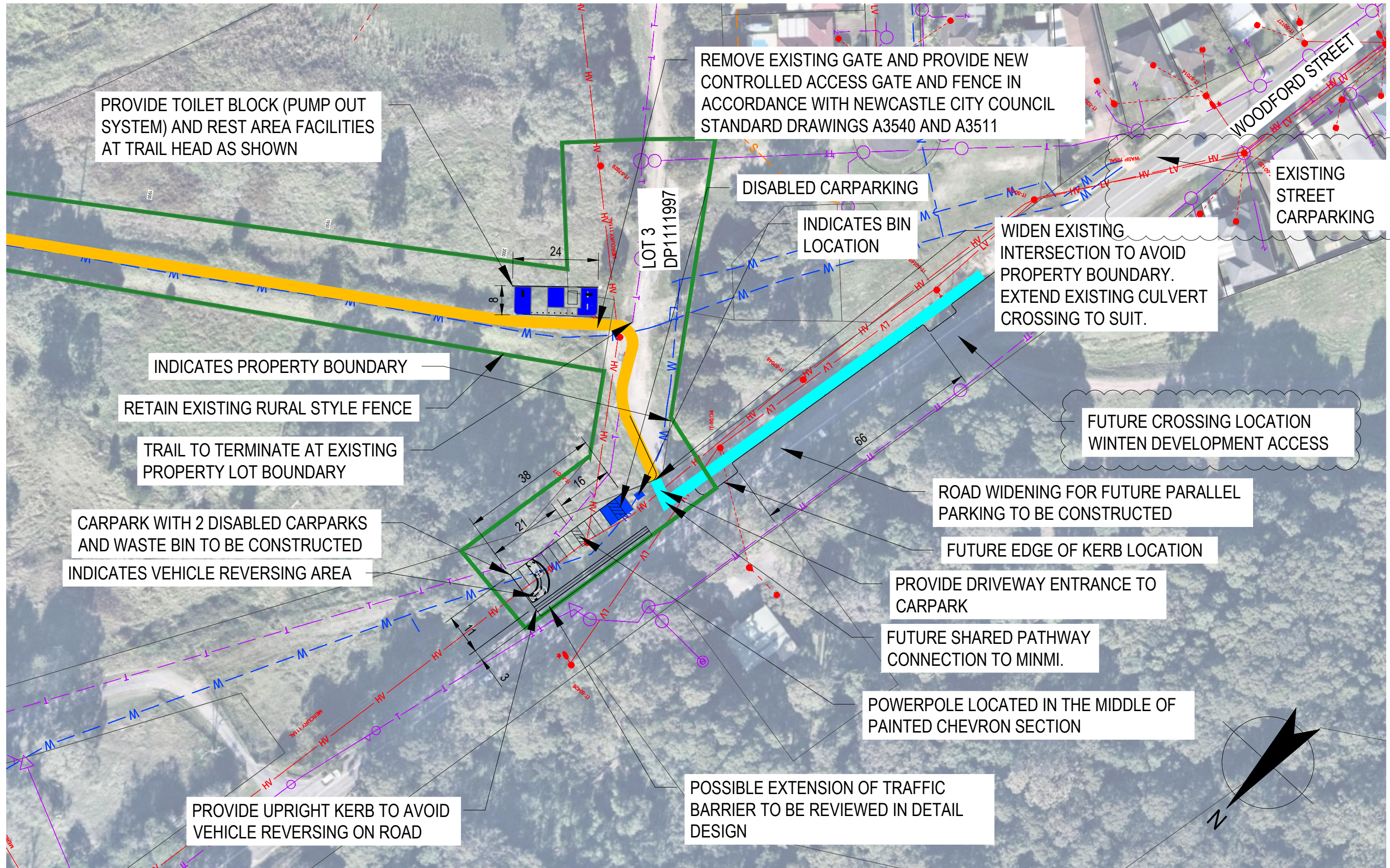
VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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	Approved (Project Director) Date	
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	MINMI JUNCTION TO MINMI
	SHEET 3 OF 3
Original Size	A3
Drawing No:	22-18317-C3002
Rev:	F



CONCEPT

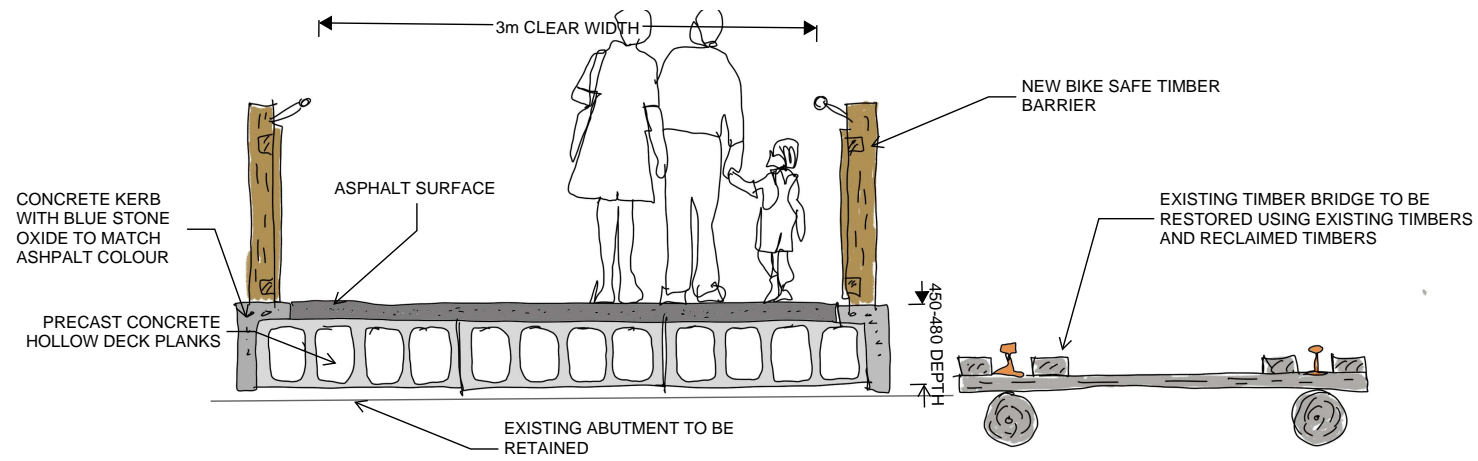
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
A	ISSUED FOR DA APPROVAL		K.R.	K.R.	P.Y.	23.06.21



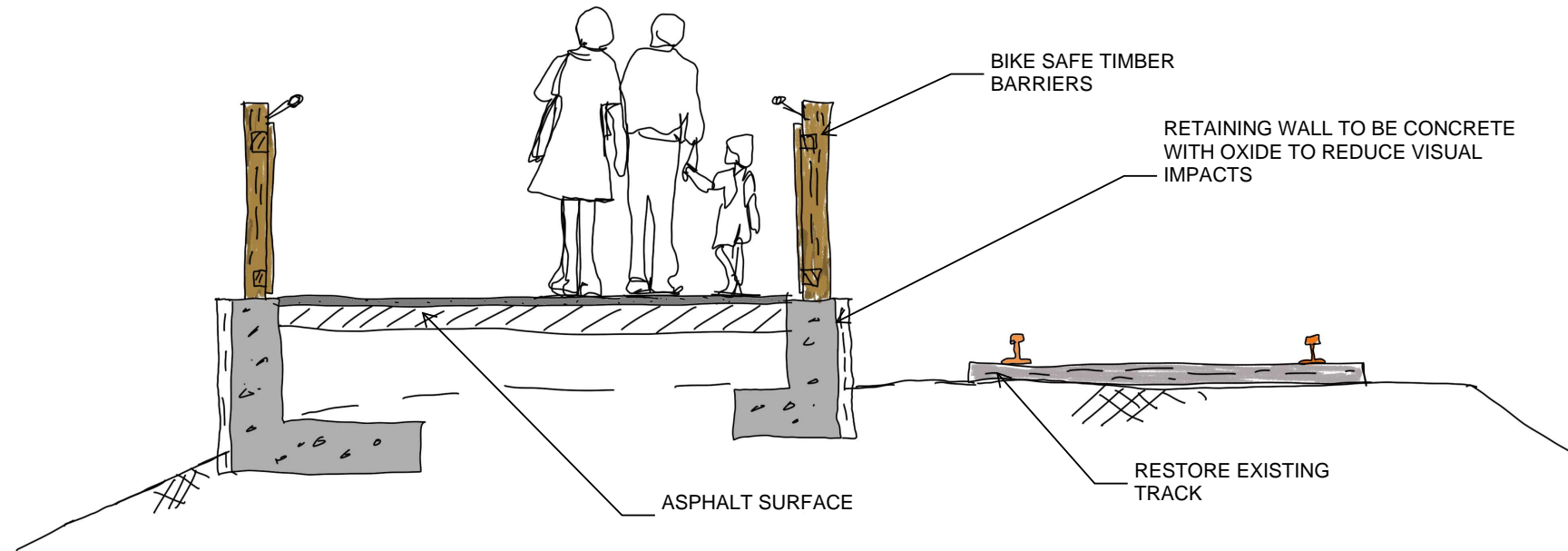
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DO NOT SCALE	Drawn K.ROSS	Designer C.CULLUM
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	Approved (Project Director) Date	
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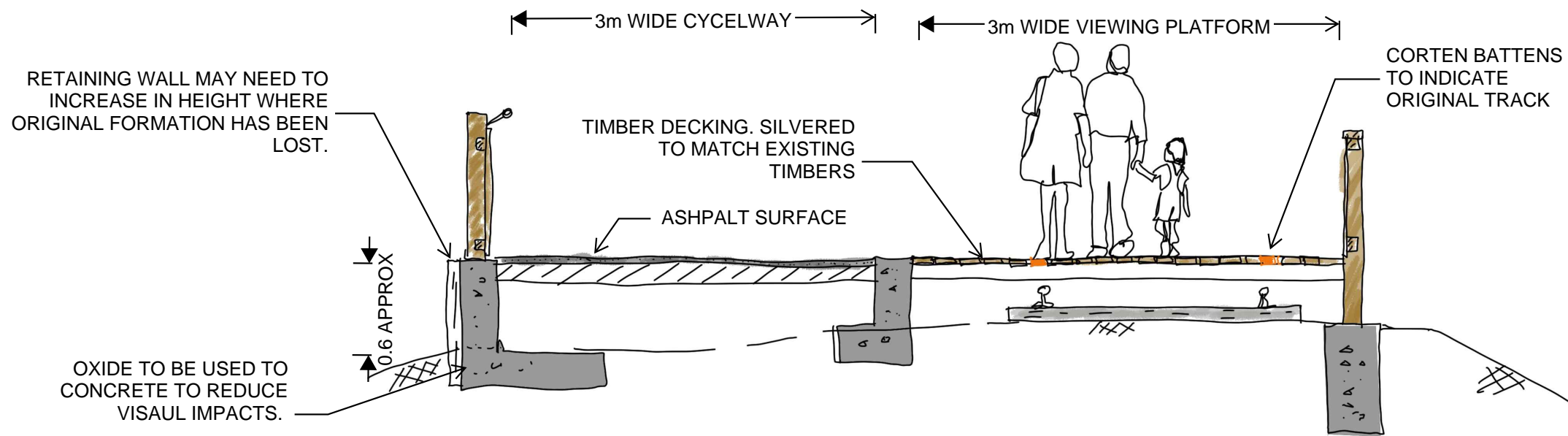
Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	MINMI JUNCTION TO MINMI DETAIL PLAN
Original Size	A3
Drawing No:	22-18317-C3003
Rev:	A



TYPICAL BRIDGE SECTION



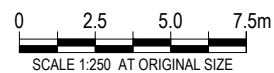
TYPICAL RAMP SECTION



TYPICAL VIEWING PLATFORM

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
A	ISSUED FOR COMMENTS		B.S	K.R	P.Y	26.08.21



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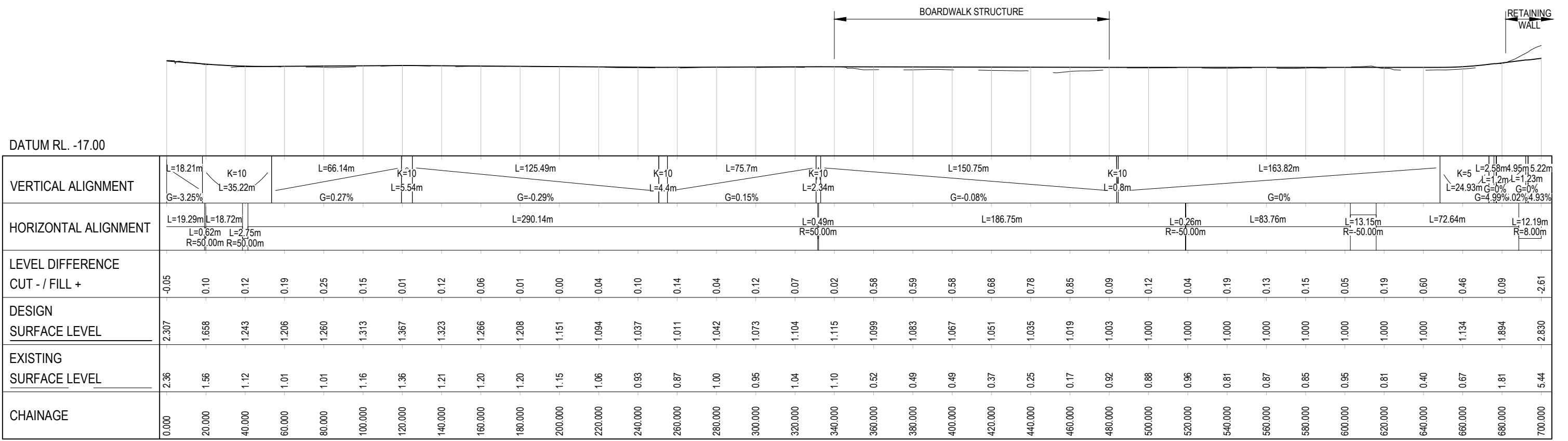
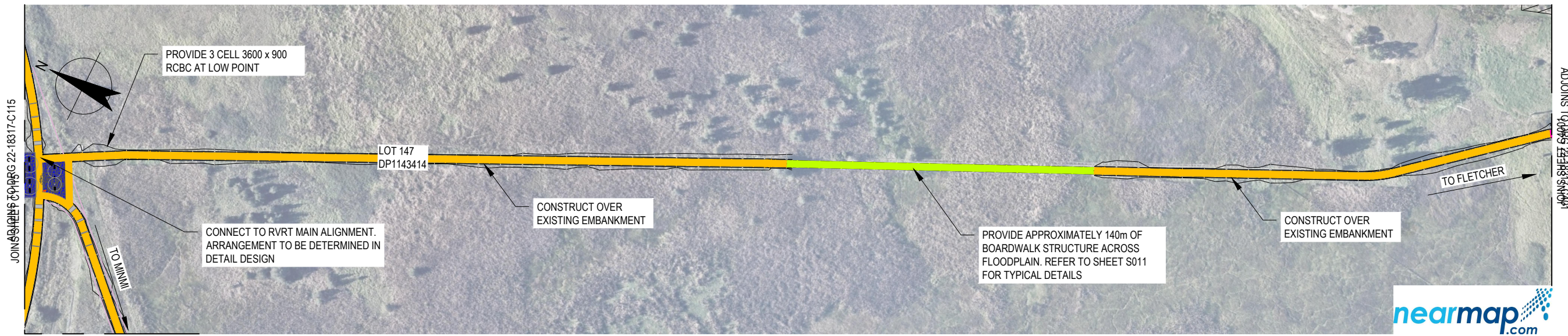
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Drafting Check	H.TRAPPITT	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client **CITY OF NEWCASTLE**
 Project **RICHMOND VALE RAIL TRAIL**
 Title **BRIDGE DETAIL SKETCHES**

Original Size **A3** Drawing No: **22-18317-C4020**

Rev: **A**

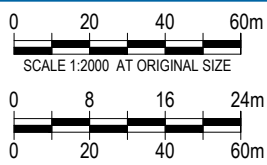


LONGITUDINAL SECTION – MINMI JUNCTION TO FLETCHER
 HORIZONTAL SCALE 1:2000
 VERTICAL SCALE 1:800

CONCEPT

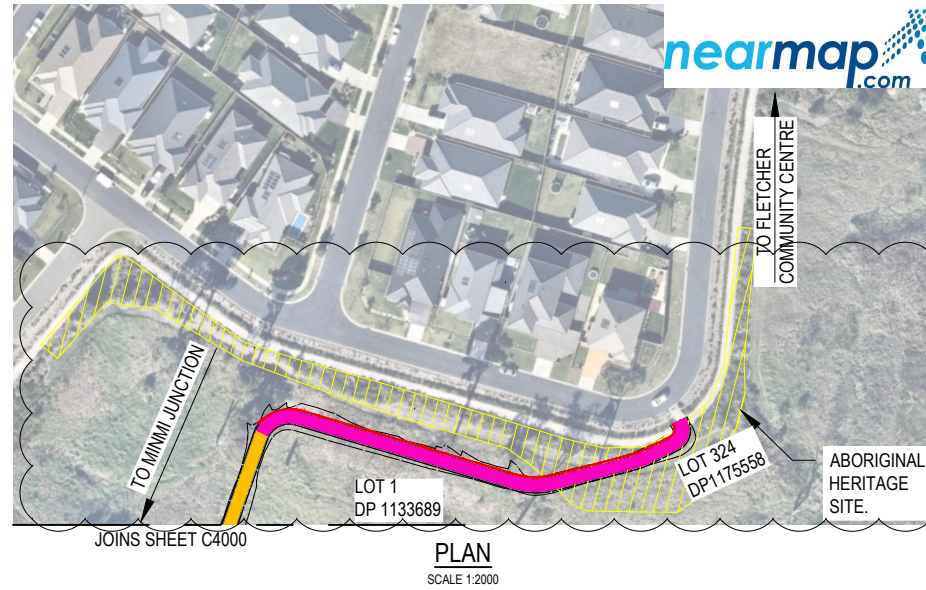
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

VERTICAL SCALE 1:800
 AT ORIGINAL SIZE
 HORIZONTAL SCALE 1:2000
 AT ORIGINAL SIZE

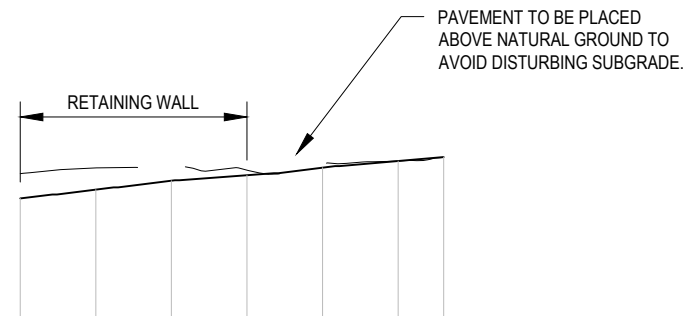


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	Approved (Project Director) Date	
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	MINMI JUNCTION TO FLETCHER
Original Size	A3
Drawing No:	22-18317-C4000
Rev:	D



PLAN
SCALE 1:2000



DATUM RL. -14.00

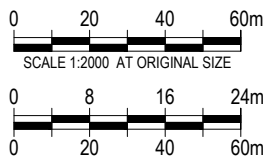
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HORIZONTAL ALIGNMENT	L=12.19m R=8.00m	L=59.66m		L=10.88m R=20.00m	L=21.46m	L=6.27m R=4.00m
LEVEL DIFFERENCE CUT - / FILL +	-2.61	-2.29	-1.66	-0.54	-0.38	-0.00
DESIGN SURFACE LEVEL	2.830	3.764	4.704	5.286	6.084	6.789
EXISTING SURFACE LEVEL	5.44	6.06	6.36	5.82	6.46	6.79
CHAINAGE	700.000	720.000	740.000	760.000	780.000	800.000
						812.033

LONGITUDINAL SECTION – MINMI JUNCTION TO FLETCHER
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

E	AMENDED AS CLOUDED	E.W	K.R	P.Y	03.03.21	
D	MINOR AMENDMENTS TO LOTS	B.S	K.R	P.Y	14.01.20	
C	CADASTRAL AMENDED	B.S	K.R	P.Y	12.12.19	
B	TITLE BLOCK AMENDED	B.S	K.R	P.Y	28.11.19	
A	ISSUED FOR DEVELOPMENT APPLICATION	B.S	K.R	P.Y	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

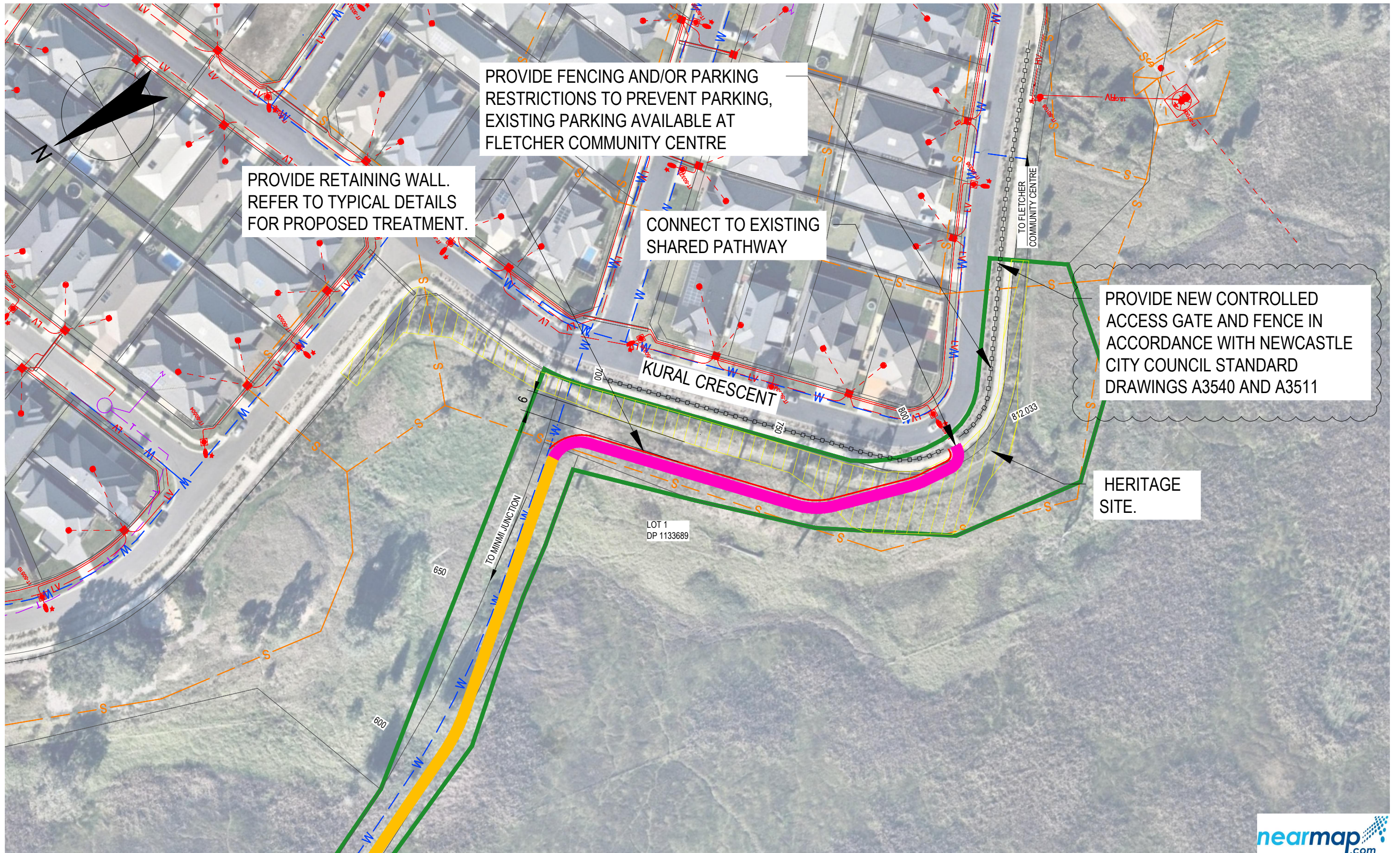
VERTICAL SCALE 1:800
AT ORIGINAL SIZE
HORIZONTAL SCALE 1:2000
AT ORIGINAL SIZE



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Drafting Check	C.PURDON	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	MINMI JUNCTION TO FLETCHER		
	SHEET 2 OF 2		
Original Size	A3	Drawing No:	22-18317-C4001
		Rev:	E



PROVIDE FENCING AND/OR PARKING RESTRICTIONS TO PREVENT PARKING, EXISTING PARKING AVAILABLE AT FLETCHER COMMUNITY CENTRE

PROVIDE RETAINING WALL. REFER TO TYPICAL DETAILS FOR PROPOSED TREATMENT.

CONNECT TO EXISTING SHARED PATHWAY

PROVIDE NEW CONTROLLED ACCESS GATE AND FENCE IN ACCORDANCE WITH NEWCASTLE CITY COUNCIL STANDARD DRAWINGS A3540 AND A3511

HERITAGE SITE.

LOT 1
DP 1133689



JOINS SHEET C4000

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DA APPROVAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR COMMENT		K.R	K.R	P.Y	04.05.2021



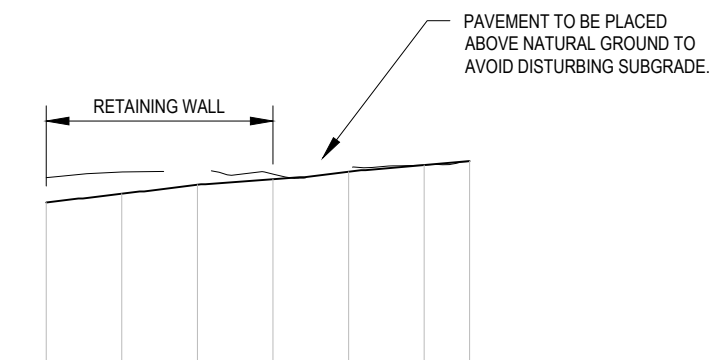
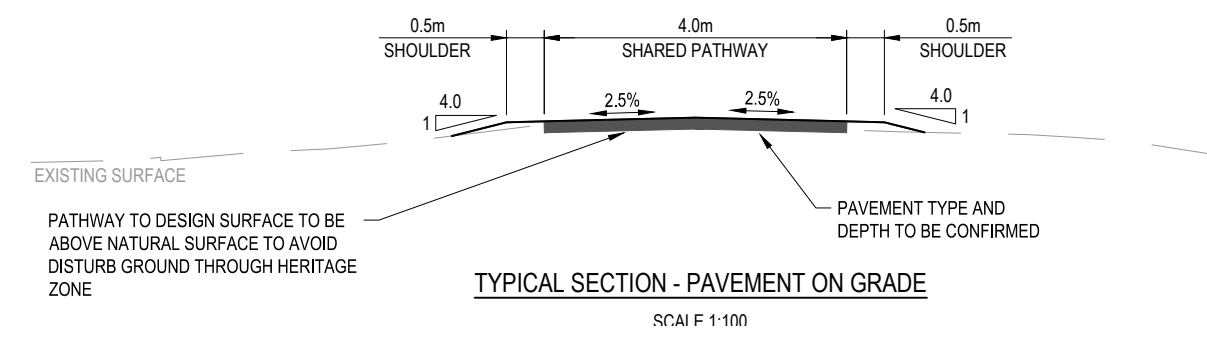
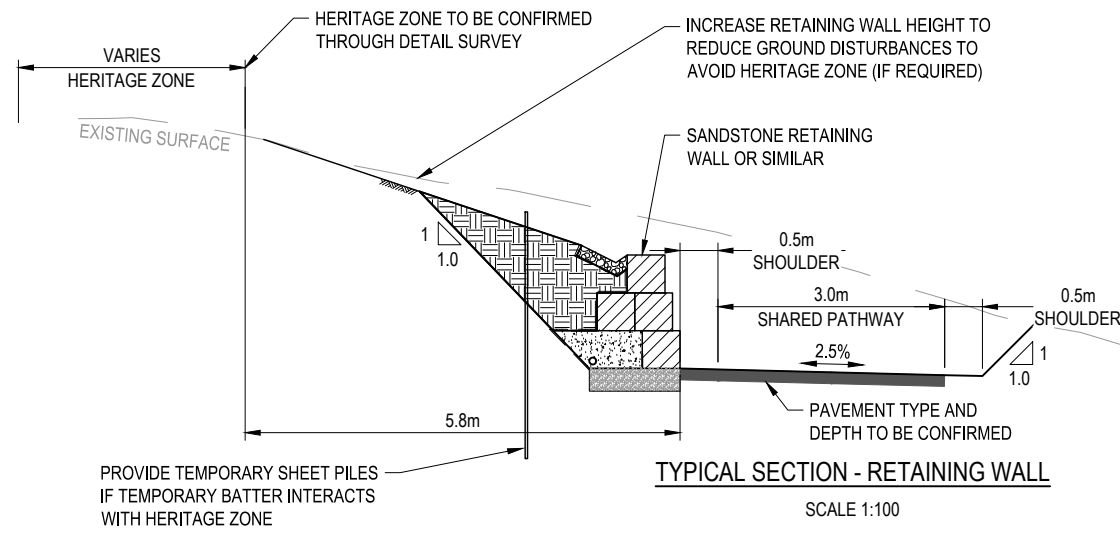
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Drafting Check	H.TRAPPITT	Design Check	K.ROWE
Approved (Project Director)			
Date	04.05.2021		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	FLETCHER CONNECTION DETAIL PLAN		
Original Size	A3	Drawing No:	22-18317-C4010
		Rev:	B



	L=15.22m	L=15m	L=15m	L=25m	L=15m	L=27.52m	
VERTICAL ALIGNMENT	G=4.93%	G=5%	G=5%	G=3%	G=5%	G=3.48%	
HORIZONTAL ALIGNMENT	L=12.19m R=8.00m	L=59.66m		L=10.88m R=-20.00m	L=21.46m	L=6.27m R=-4.00m	
LEVEL DIFFERENCE							
CUT - / FILL +	-2.61	-2.29	-1.66	-0.54	-0.38	-0.00	0.04
DESIGN SURFACE LEVEL	2.830	3.764	4.704	5.286	6.084	6.789	7.208
EXISTING SURFACE LEVEL	5.44	6.06	6.36	5.82	6.46	6.79	7.16
CHAINAGE	700.000	720.000	740.000	760.000	780.000	800.000	812.033

LONGITUDINAL SECTION - MINMI JUNCTION TO FLETCHER
HORIZONTAL SCALE 1:2000
VERTICAL SCALE 1:800

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DA APPROBAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR COMMENT		K.R	K.R	P.Y	4.05.2021

VERTICAL SCALE 1:800 AT ORIGINAL SIZE

HORIZONTAL SCALE 1:2000 AT ORIGINAL SIZE

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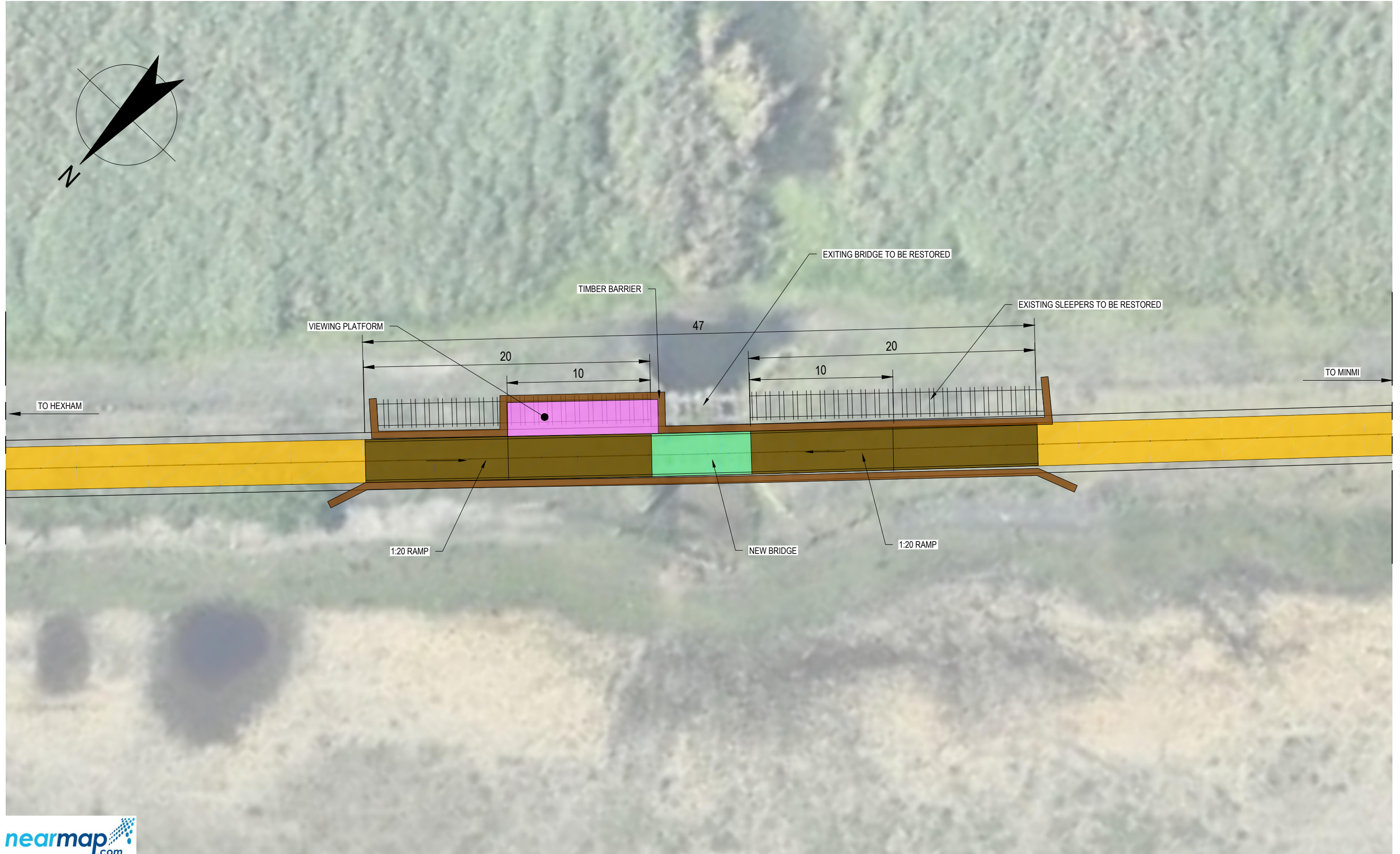
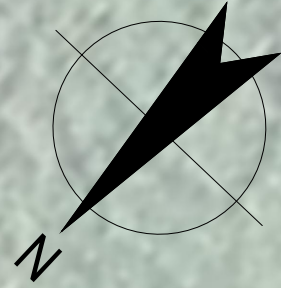
Drawn K.ROSS
Drafting Check H.TRAPPITT
Approved (Project Director) Date
Scale AS SHOWN

Designer L.SCHNEIDER
Design Check K. ROWE

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Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **FLETCHER CONNECTION LONG SECTION**

Original Size **A3**
Drawing No: **22-18317-C4011**
Rev: **B**



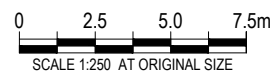
ADJOINS TO DRG 22-18317-C4011

ADJOINS TO DRG 22-18317-C4012

H2M1 BRIDGE
SCALE 4:1

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DA APPROVAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR COMMENT		K.R	K.R	P.Y	07.05.21



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Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	EXISTING TIMBER BRIDGES
	H2M1 BRIDGE
Original Size	A3
Drawing No:	22-18317-C4012
Rev:	B



ADJOINS TO DRG 22-18317-C4012

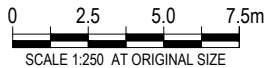
ADJOINS TO DRG 22-18317-C4014



H2M2 BRIDGE
SCALE 4:1

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DA APPROVAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR COMMENT		K.R	K.R	P.Y	07.05.21



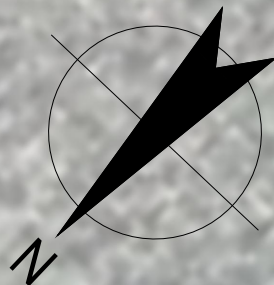
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Drafting Check	H.TRAPPITT	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	EXISTING TIMBER BRIDGES
	H2M2 BRIDGE
Original Size	A3
Drawing No:	22-18317-C4013
Rev:	B

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ADJOINS TO DRG 22-18317-C4013

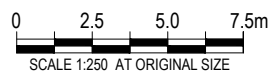
ADJOINS TO DRG 22-18317-C4015



H2M3 BRIDGE
SCALE 4:1

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DA APPROVAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR COMMENTS		K.R	K.R	P.Y	07.05.2021



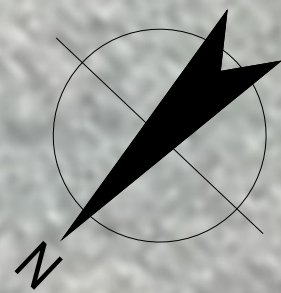
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Drafting Check	H.TRAPPITT	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	EXISTING TIMBER BRIDGES		
	H2M3 BRIDGE		
Original Size	A3	Drawing No:	22-18317-C4014
		Rev:	B



ADJOINS TO DRG 22-18317-C4014

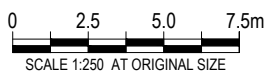
ADJOINS TO DRG 22-18317-C4016



H2M4 BRIDGE
SCALE 4:1

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DA APPROVAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR DEVELOPMENT APPLICATION		B.S	K.R	P.Y	07.05.2022



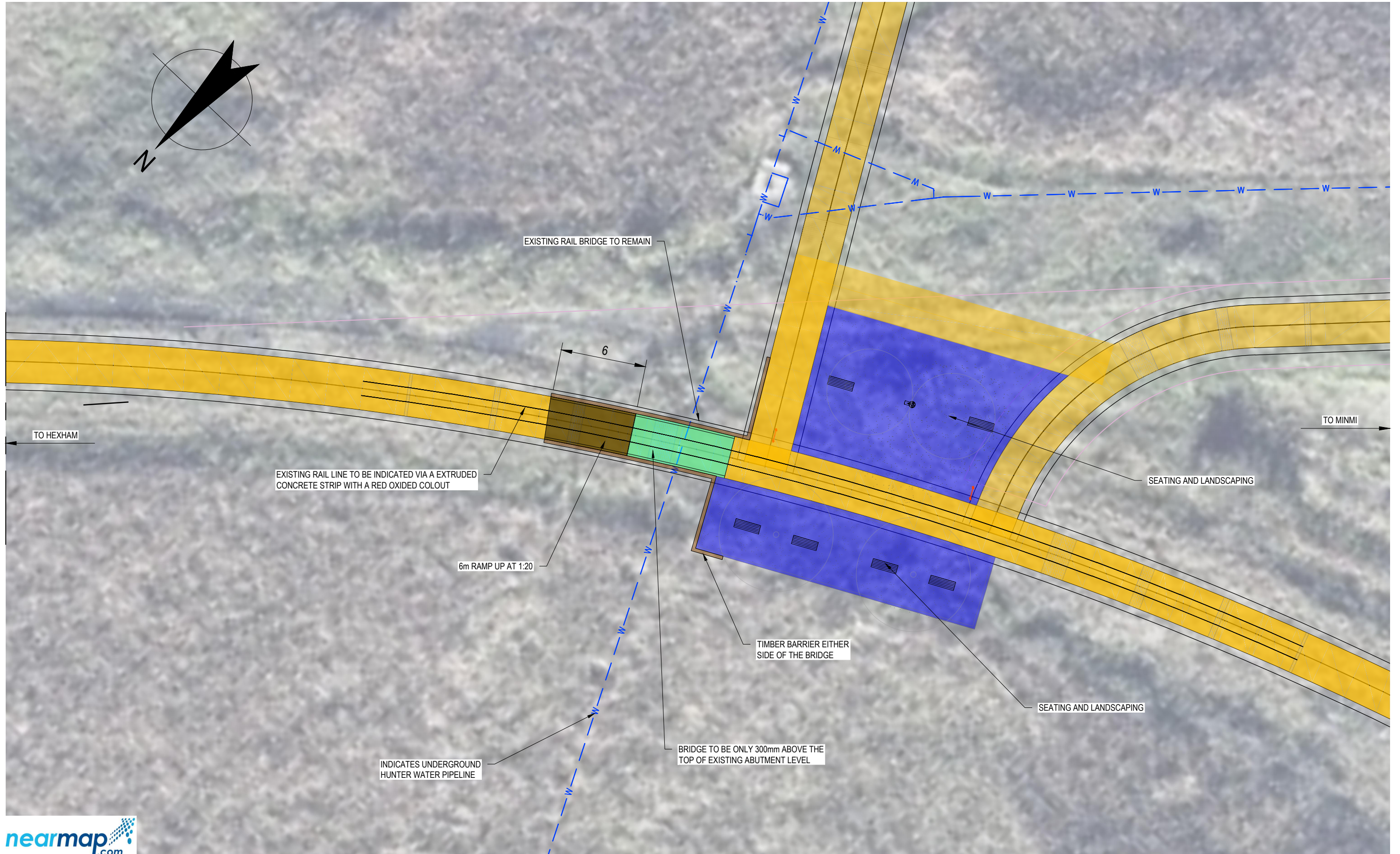
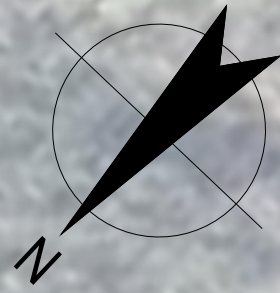
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Drafting Check	H.TRAPPITT	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

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Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	EXISTING TIMBER BRIDGES
	H2M4 BRIDGE
Original Size	A3
Drawing No:	22-18317-C4015
Rev:	B



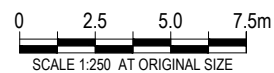
ADJOINS TO DRG 22-18317-C4015



H2M5 BRIDGE
SCALE 4:1

CONCEPT

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	ISSUED FOR DAP APPROVAL		K.R	K.R	P.Y	23.06.21
A	ISSUED FOR COMMENTS		K.R	K.R	P.Y	07.05.21

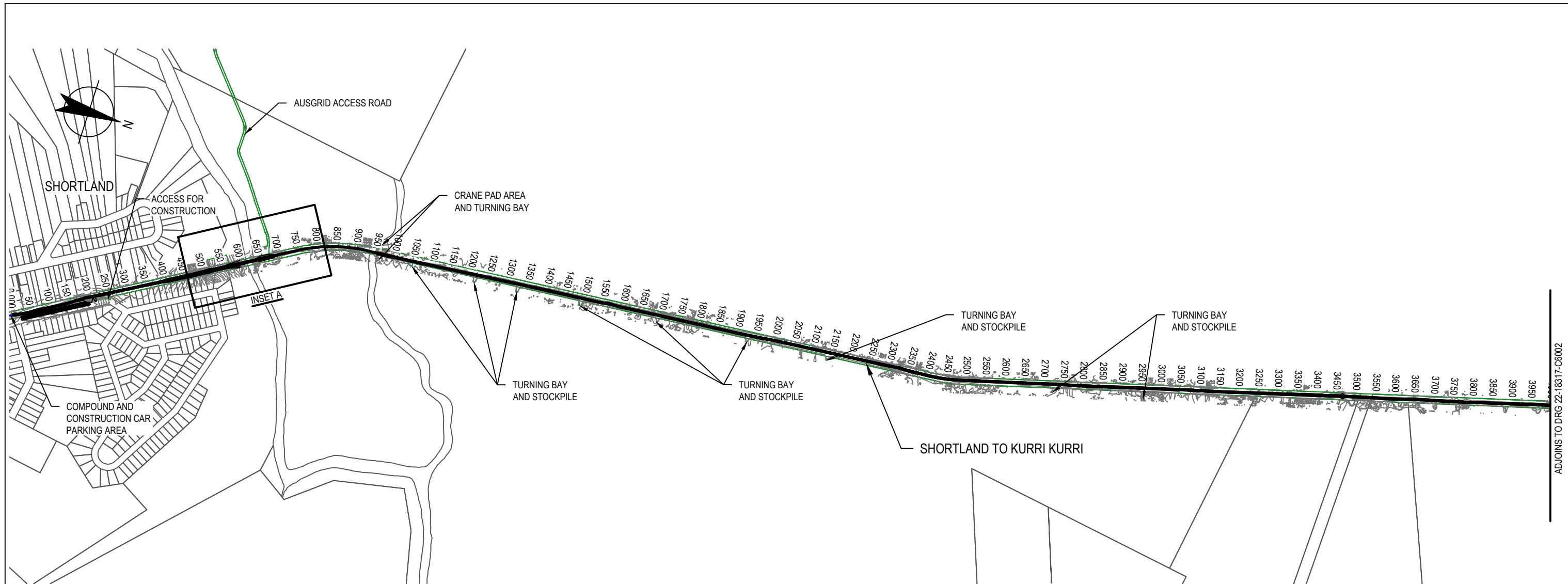


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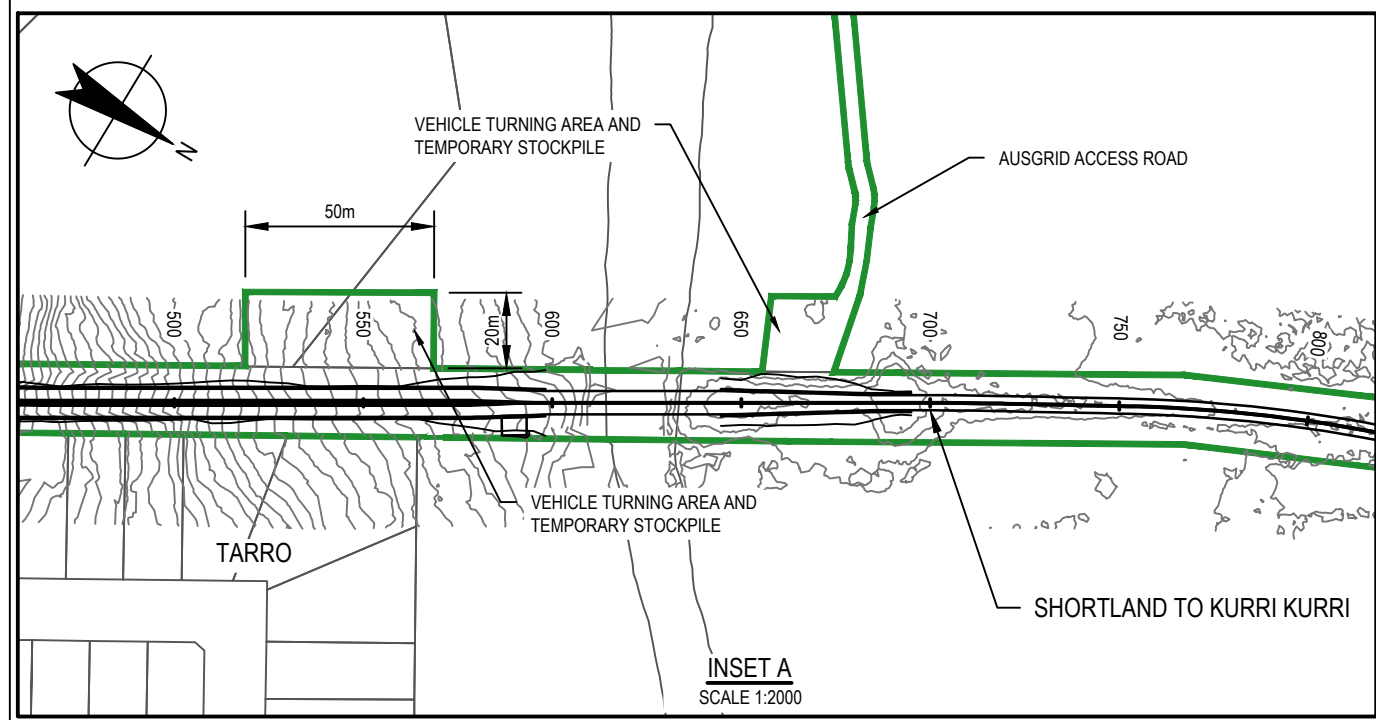
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Drafting Check	H.TRAPPITT	Design Check	K. ROWE
Approved (Project Director)			
Date			
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	EXISTING TIMBER BRIDGES
	H2M5 BRIDGE
Original Size	A3
Drawing No:	22-18317-C4016
Rev:	B

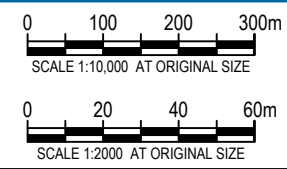


PLAN
SCALE 1:10000



CONCEPT

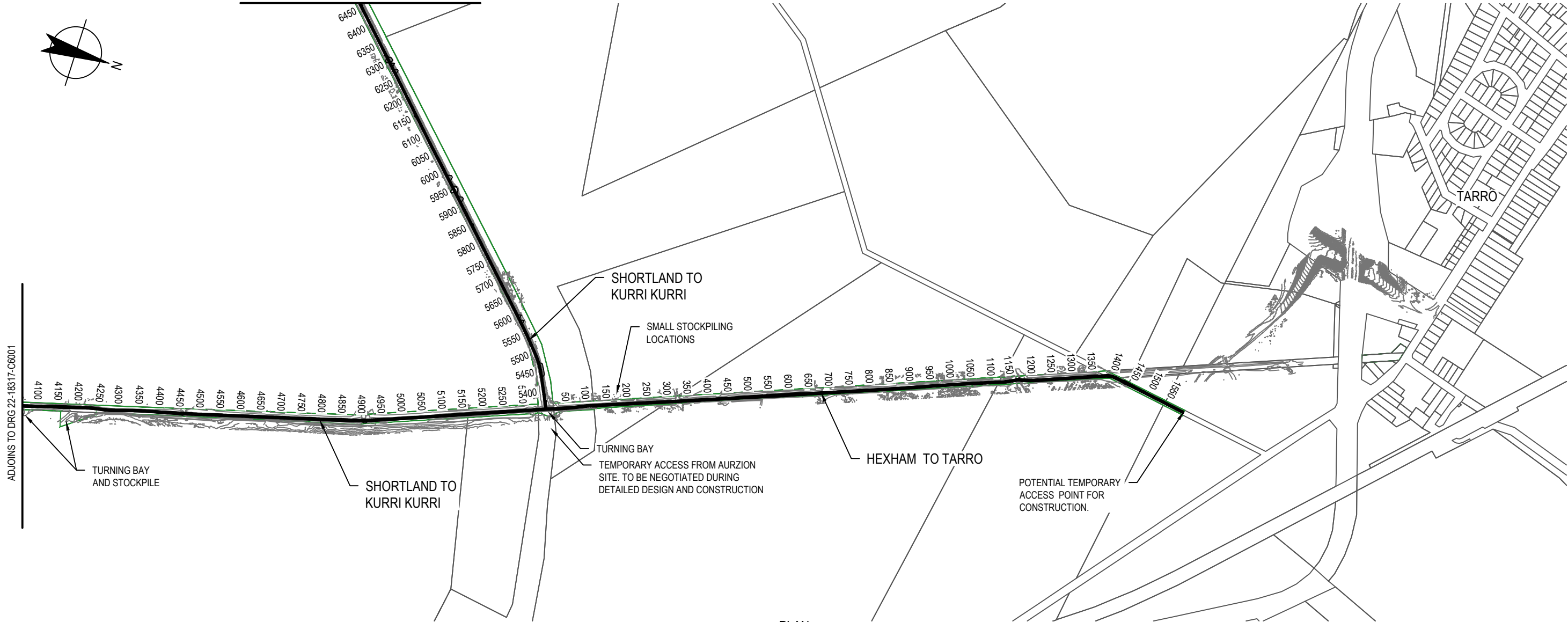
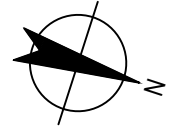
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
A	CONCEPT DESIGN		E.W	K.R	P.Y	03.03.21



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	Drafting Check	R. COCKS	Design Check	K. ROWE	
	Approved (Project Director)	Date		Scale	

ADJOINS TO DRG 22-18317-C6003



PLAN
SCALE 1:10,000

CONCEPT

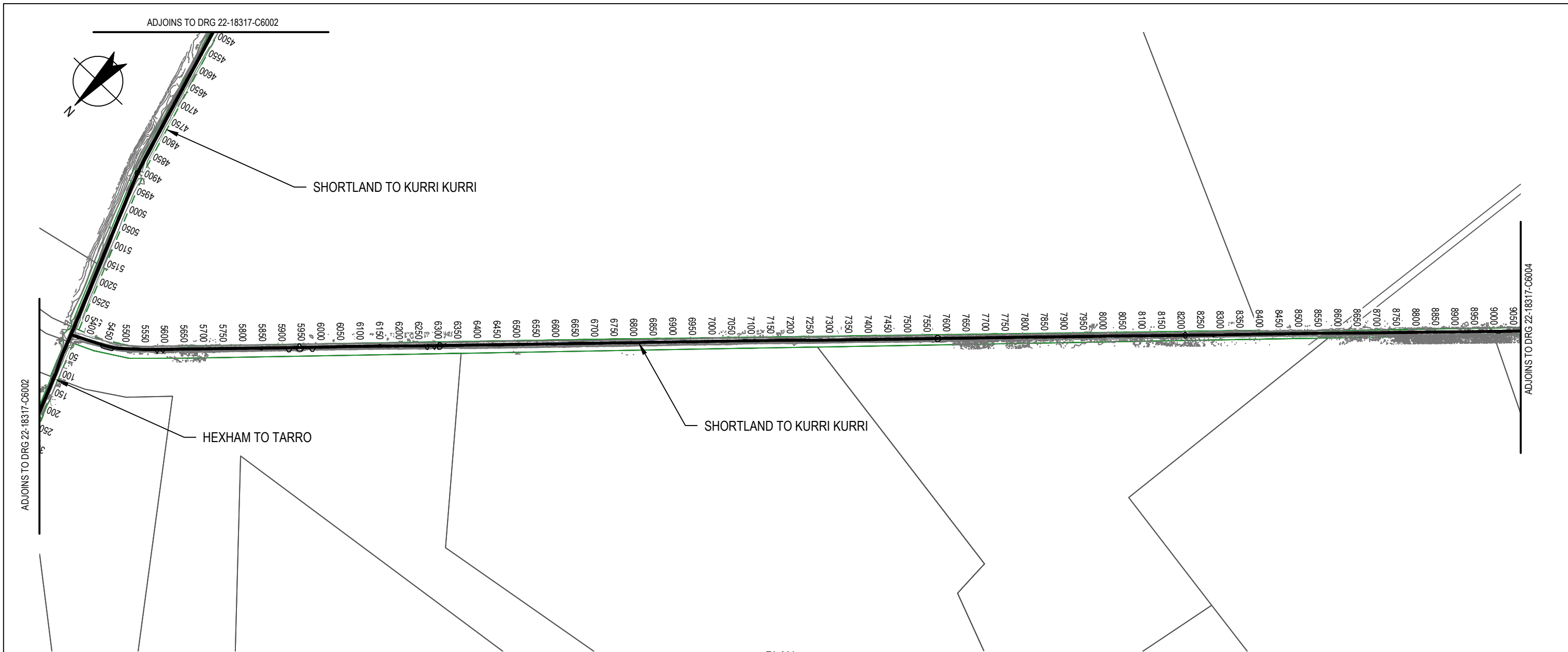
A CONCEPT DESIGN					E.W	K.R	P.Y	03.03.21
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date		



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	Drafting Check	R. COCKS	Design Check	K. ROWE
	Approved (Project Director)	Date		
Scale	AS SHOWN			

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	CONSTRUCTION PLAN		
	SHEET 2 OF 5		
Original Size	A3	Drawing No:	22-18317-C6002
		Rev:	A



PLAN
SCALE 1:10,000

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A	CONCEPT DESIGN		E.W	K.R	P.Y	03.03.21



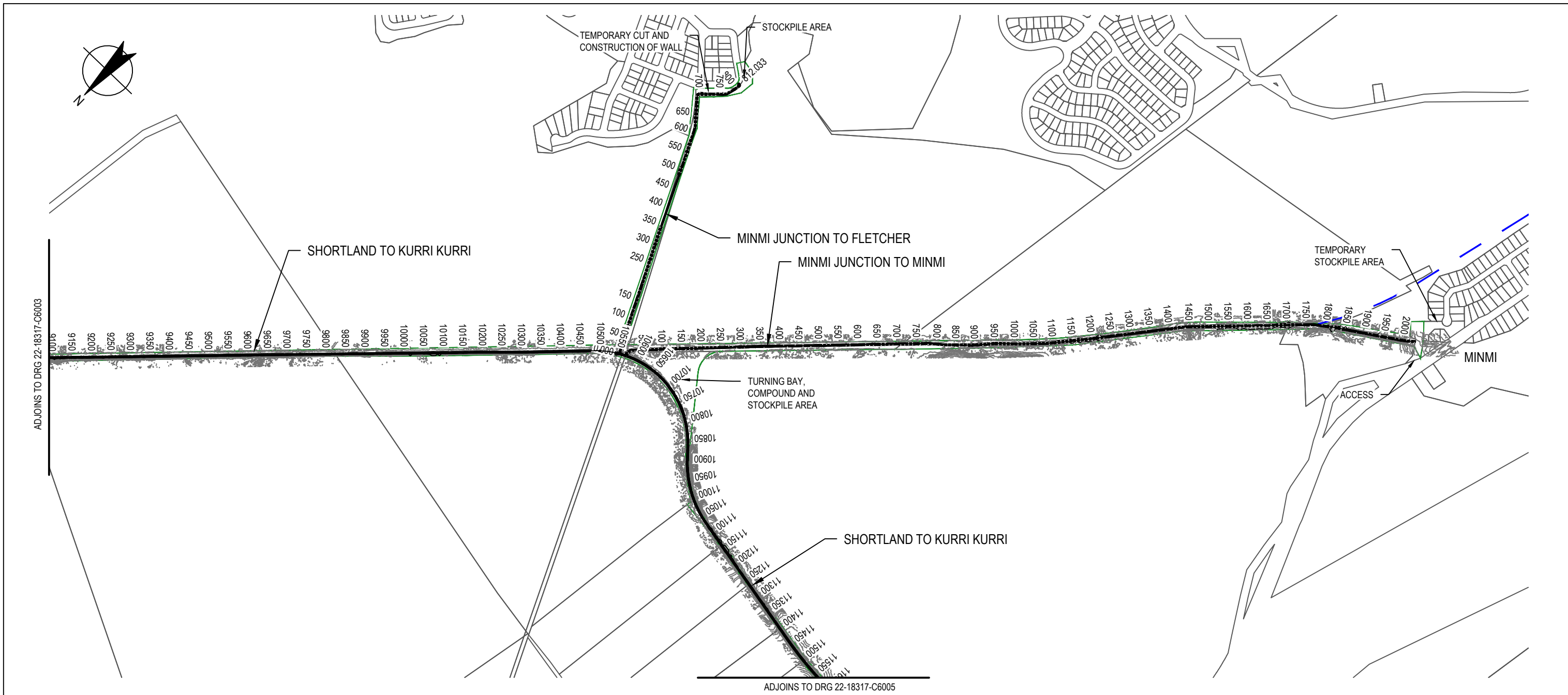
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Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	CONSTRUCTION PLAN		
	SHEET 3 OF 5		
Original Size	A3	Drawing No:	22-18317-C6003
		Rev:	A



PLAN
SCALE 1:10,000

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A CONCEPT DESIGN					E.W	K.R	P.Y	03.03.21
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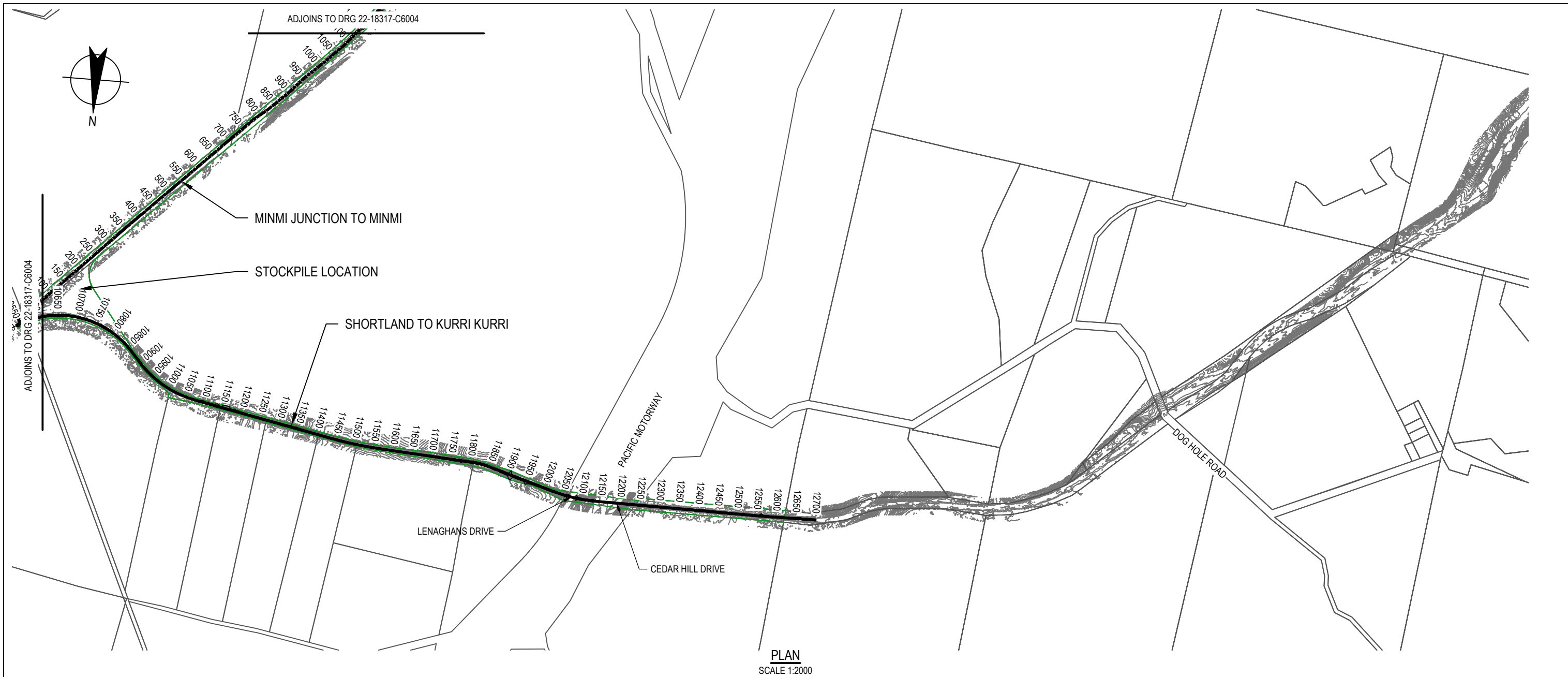
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Drafting Check	R. COCKS	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client	CITY OF NEWCASTLE		
Project	RICHMOND VALE RAIL TRAIL		
Title	CONSTRUCTION PLAN		
	SHEET 4 OF 5		
Original Size	A3	Drawing No:	22-18317-C6004
		Rev:	A



CONCEPT

A		CONCEPT DESIGN	E.W.	K.R.	P.Y.	03.03.21
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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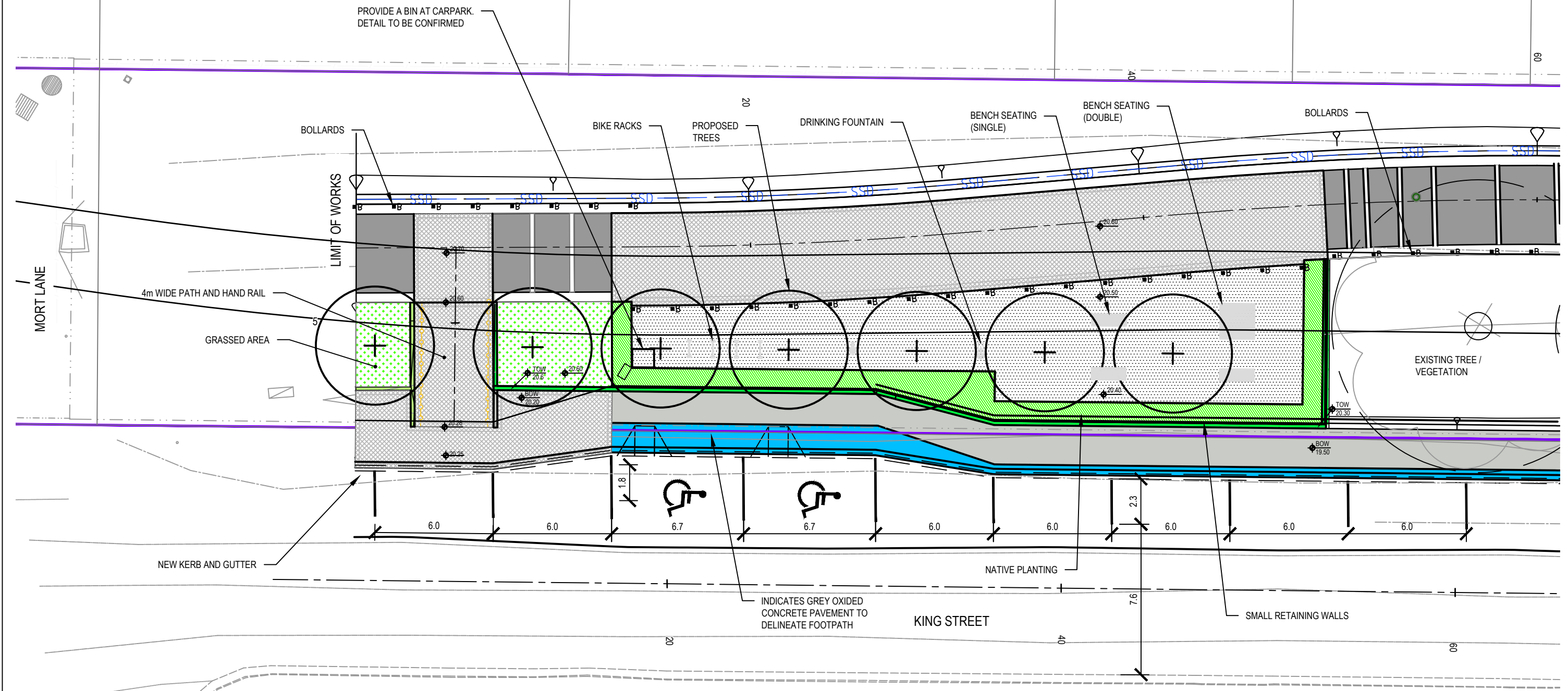
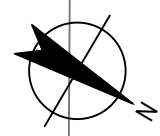
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Drafting Check	R. COCKS	Design Check	K. ROWE
Approved (Project Director)	Date		
Scale	AS SHOWN		

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **CONSTRUCTION PLAN**
SHEET 5 OF 5

Original Size **A3** Drawing No: **22-18317-C6005**

Rev: **A**



GENERAL ARRANGEMENT PLAN
SCALE 1:200

PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
D		NOTES AND HATCH UPDATED	BS	K.R.		13.09.21
C		WASTE RECEPTACLES ADDED	K.R.	K.R.		16.06.21
B		TITLE BLOCK AMENDED	BS	KR	PY	28.11.19
A		DA SUBMISSION	KK	KR	SJ	11.04.18



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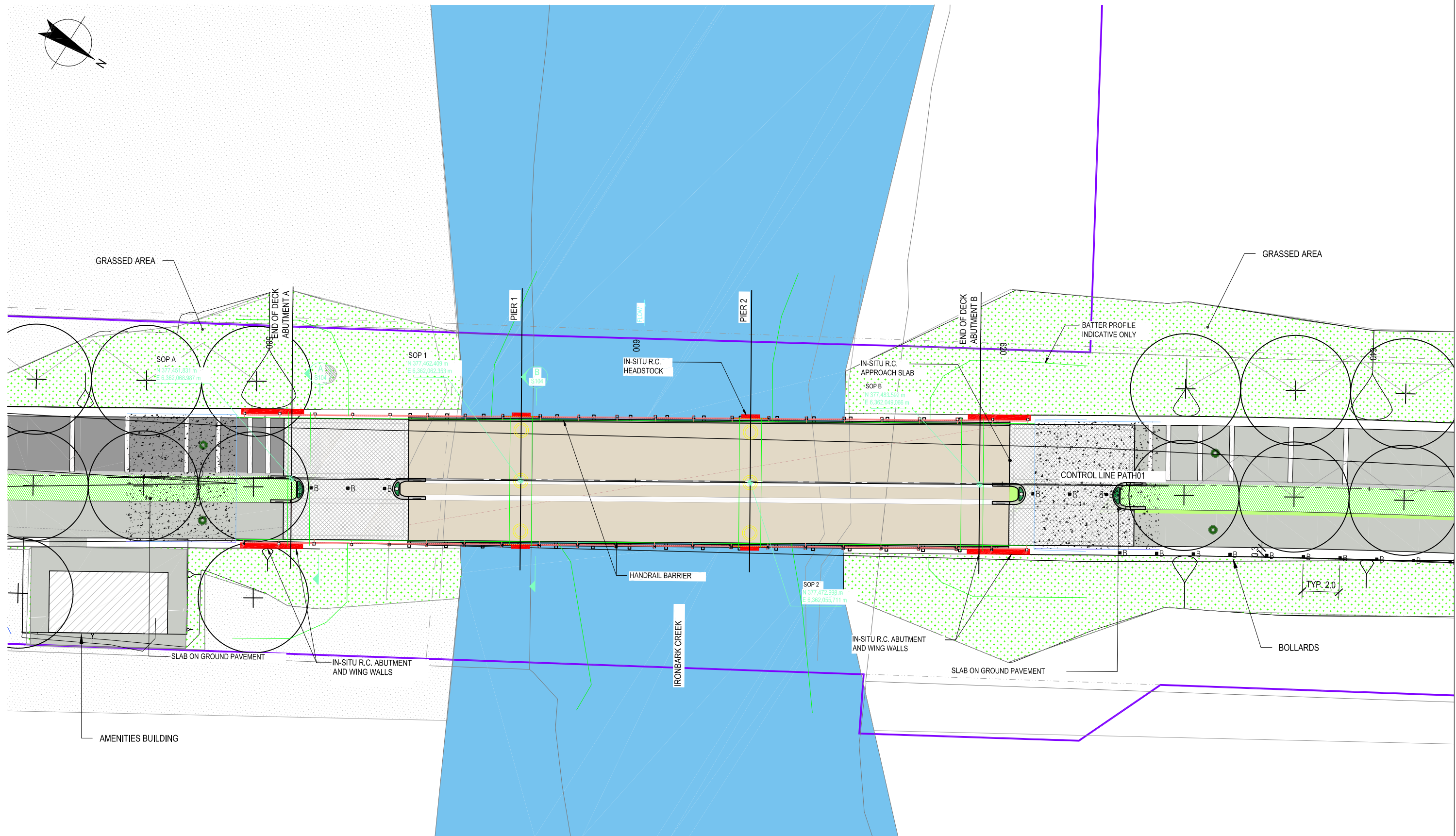
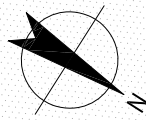
Drawn	K.KAMINSKI	Designer	L.ALLEN
Drafting Check	C.PURDON	Design Check	
Approved (Project Director)		Date	
Scale	1:200		

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Client **CITY OF NEWCASTLE**
 Project **SHORTLAND TO TARRO CYCLEWAY**
 Title **KING STREET CARPARK**
GENERAL ARRANGEMENT PLAN

Original Size **A3** Drawing No: **22-18317-D1001**

Rev: **D**

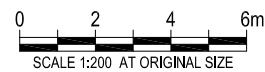


GENERAL ARRANGEMENT PLAN

SCALE 1:200

PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
B	TITLE BLOCK AMENDED		BS	KR	PY	28.11.19
A	DA SUBMISSION		KK	KR	SJ	11.04.18

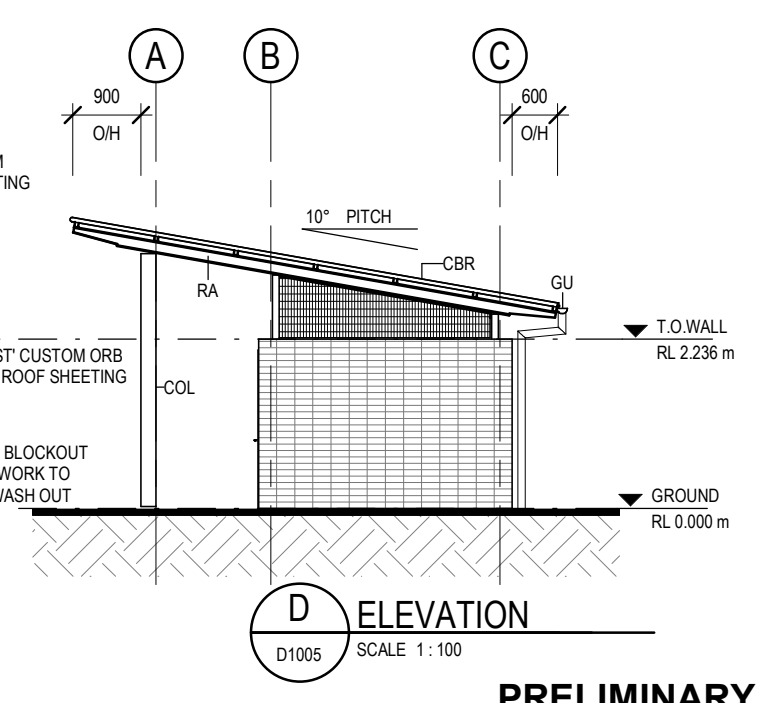
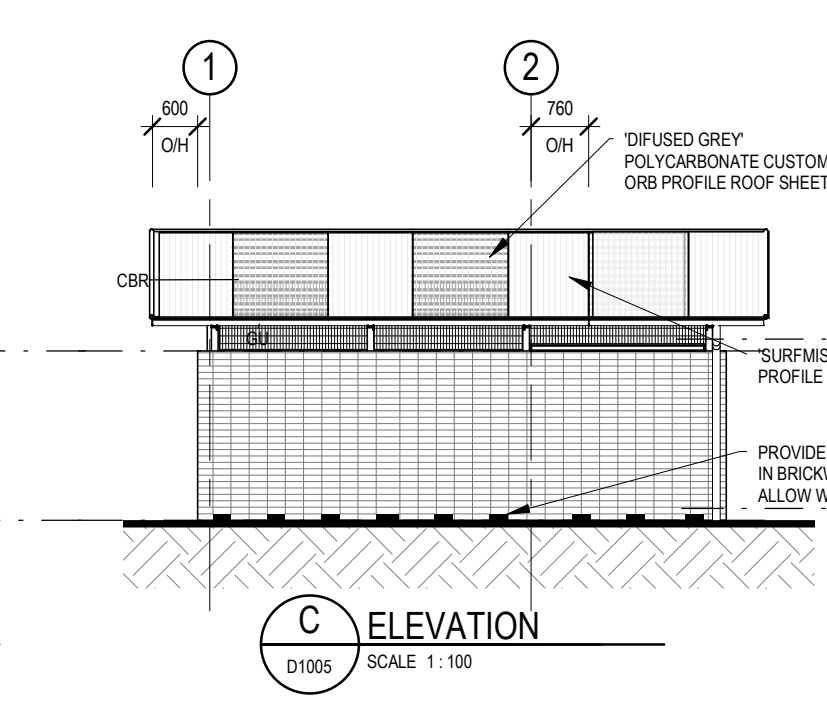
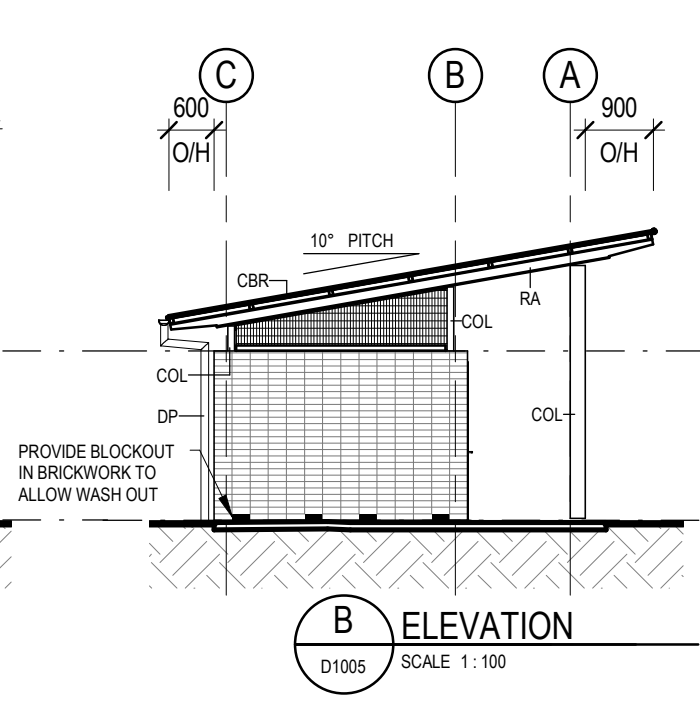
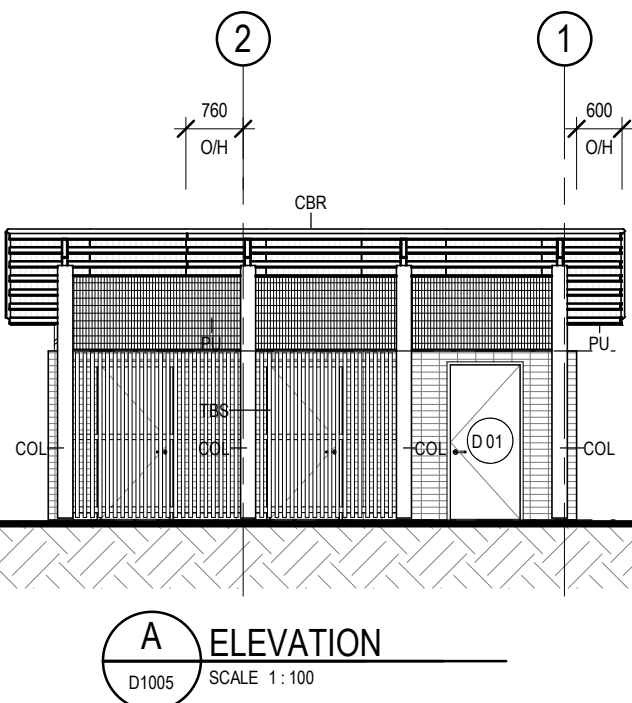
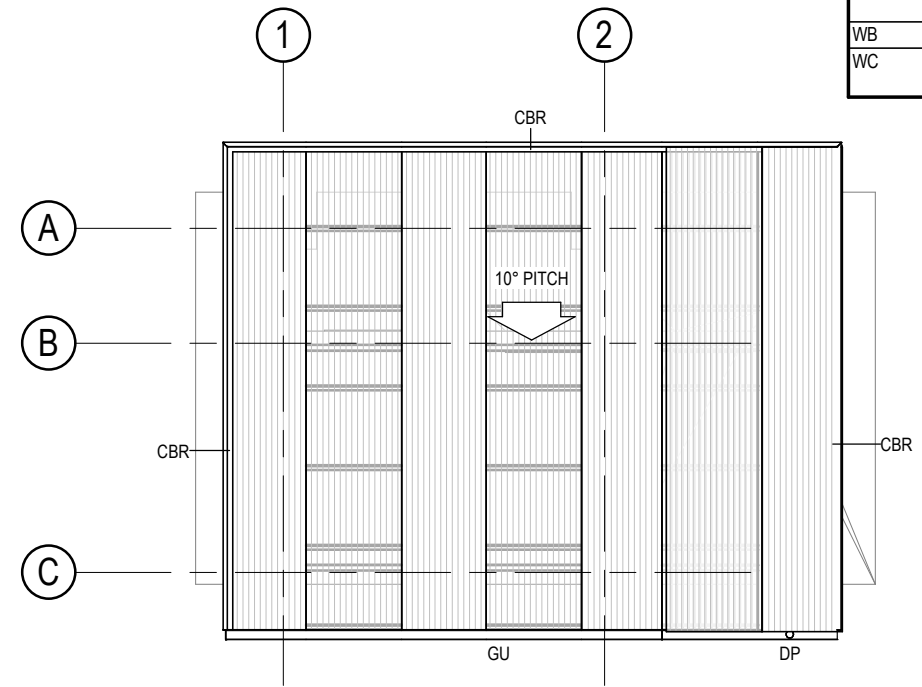
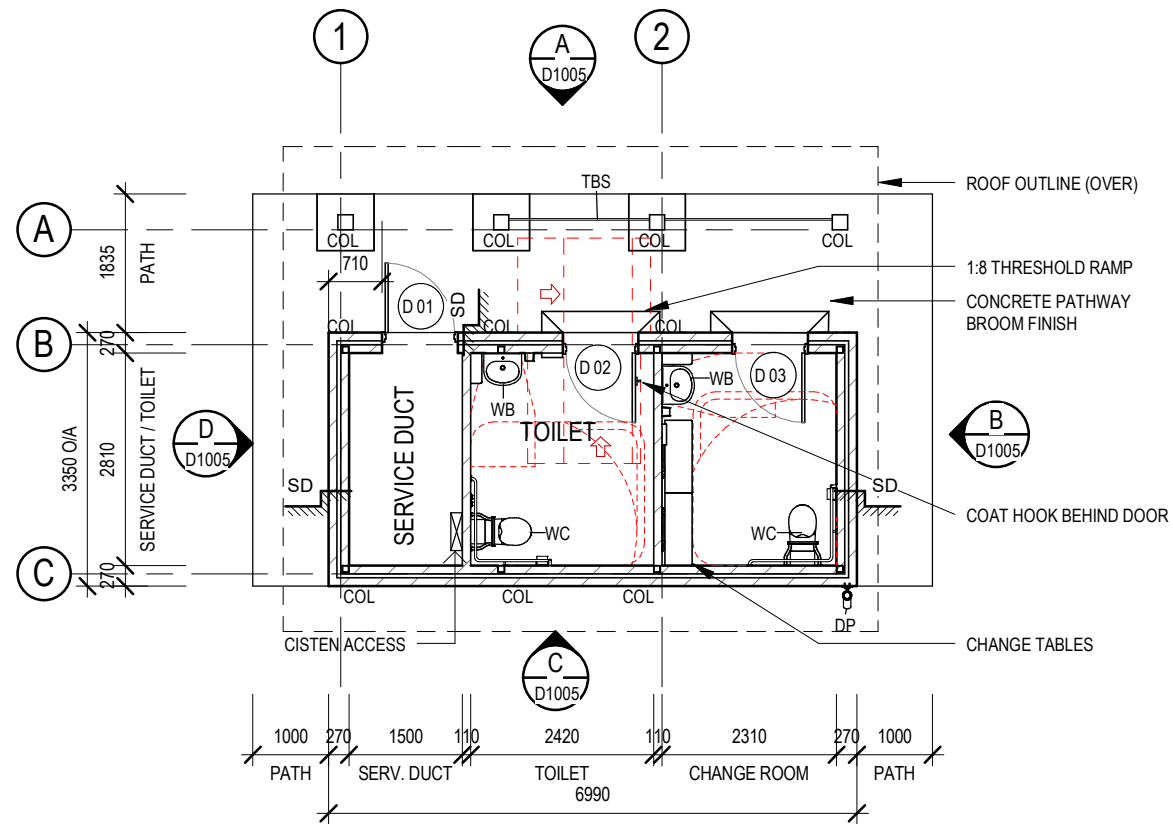


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		Drafting Check	Design Check	SHORTLAND TO TARRO CYCLEWAY
		Approved (Project Director)	Date	IRON BARK CREEK BRIDGE
		Scale	1:200	GENERAL ARRANGEMENT PLAN
		This Drawing must not be used for Construction unless signed as Approved		Original Size A3
		Drawing No: 22-18317-D1004		Rev: B

KEYNOTE ABBREVIATIONS LEGEND

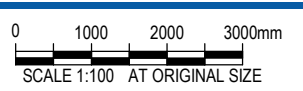
CODE	DESCRIPTION
CBR	COLORBOND BARGE ROLL
COL	COLUMN
DP	100Ø STAINLESS STEEL DOWNPIPE WITH STAINLESS STEEL BRACKETS AT 1.2m CRS.
GU	150Ø HALF ROUNDLINE STAINLESS STEEL EAVES GUTTER
PU	HOT DIP GALVANISED RHS PURLIN
RA	HOT DIP GALVANISED PFC RAFTER
TBS	100x50 UNSEASONED F11 RAILS TOP, MID & BTM FIXED TO HARDWOOD COLUMNS WITH 'PRYDA' JOIST HANGERS, 2-No. 12 TYPE 17 SCREWS TO EACH LEG. 50x50 F11 HARDWOOD BATTENS WITH 50mm CLEAR GAP FIXED TO RAILS WITH 2-No. 12 TYPE 17 S.STEEL SCREWS
WB	WALL BASIN COMPLIANT TO AS1428 W/SOAP DISPENSER, HAND DRYER
WC	TOILET ACCESSIBLE (SEAT WITH LID) & BACKREST, S15 VITREOUS CHINA PAN, WALL FACE, CONCEALED TRAP WITH IN-WALL DUAL FLUSH CISTERN



PRELIMINARY

Revision	No.	Description	Drawn	Job Manager	Project Director	Date
B	DA SUBMISSION		HT	KR	SJ	29.11.19
A	DA SUBMISSION		KK	KR	SJ	11.4.18

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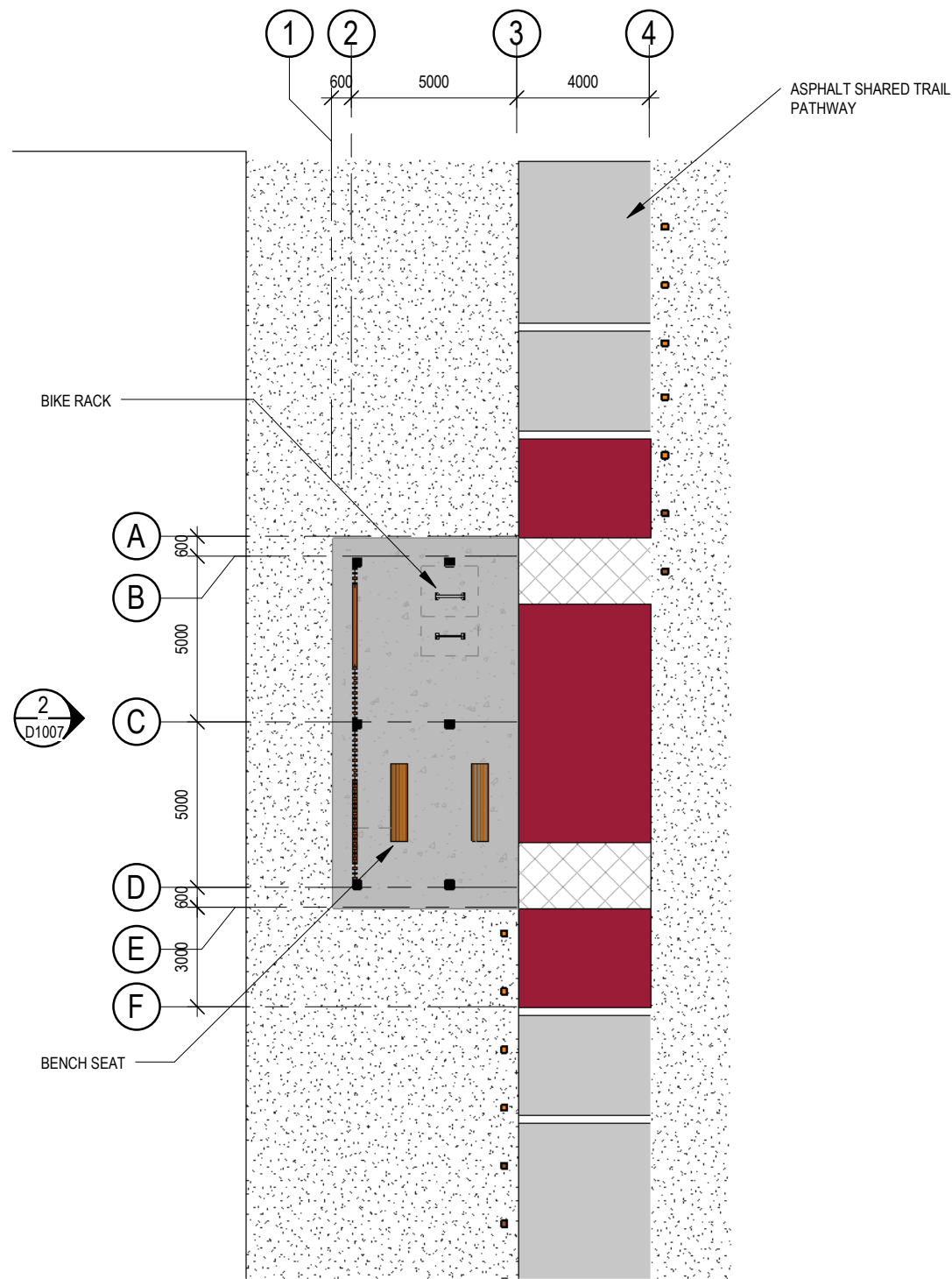
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Drawn M.MURDOCH
Designer A.GOYAL
Drafting Check C.PURDON
Design Check
Approved (Project Director)
Date
Scale 1:100

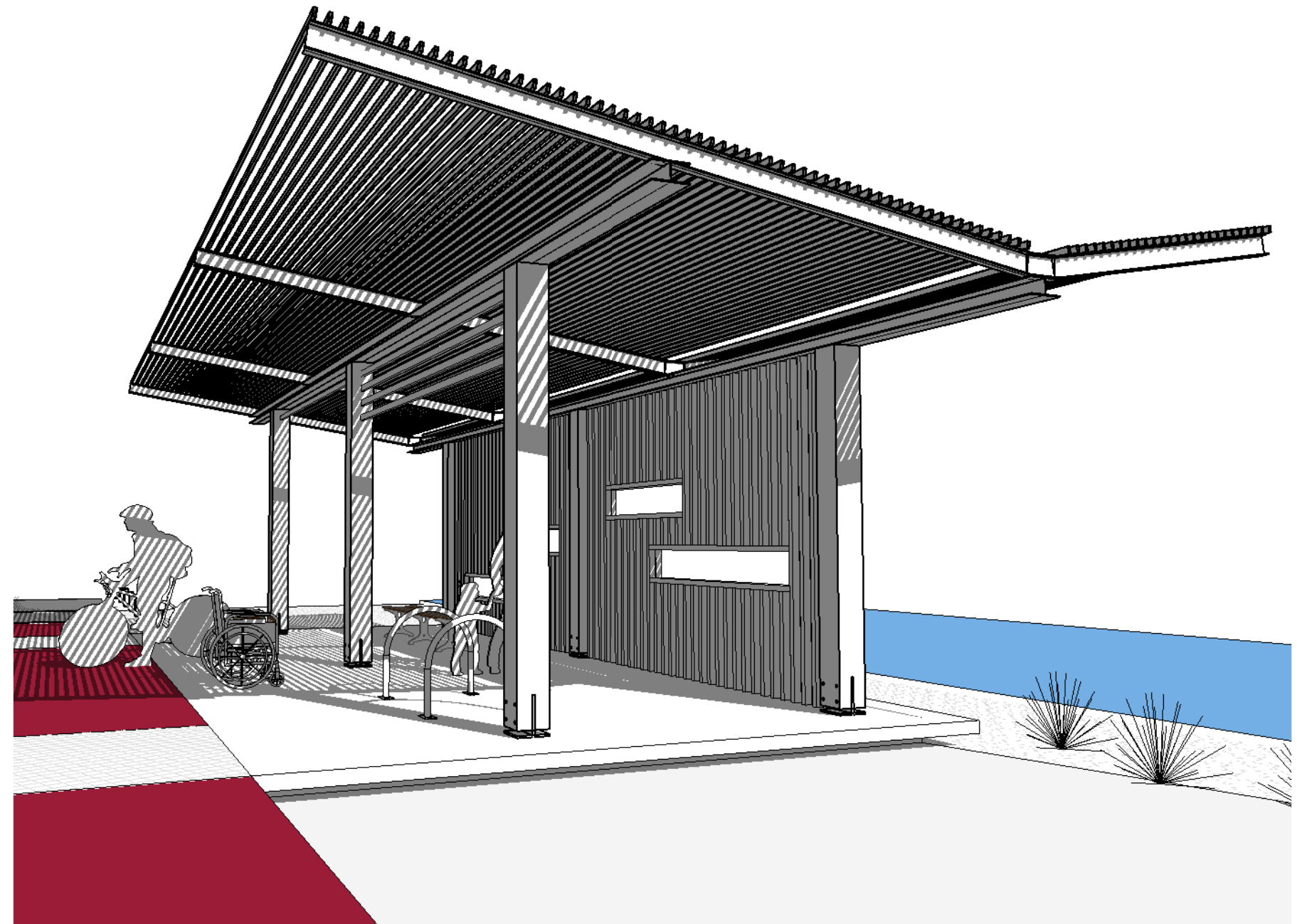
Client **CITY OF NEWCASTLE**
Project **SHORTLAND TO TARRO CYCLEWAY**
Title **RESTROOM BLOCK PLANS, ELEVATIONS**

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Original Size **A3**
Drawing No: **22-18317 - D1005**
Rev: **B**



**GENERAL ARRANGEMENT
PLAN - GROUND**



PERSPECTIVE



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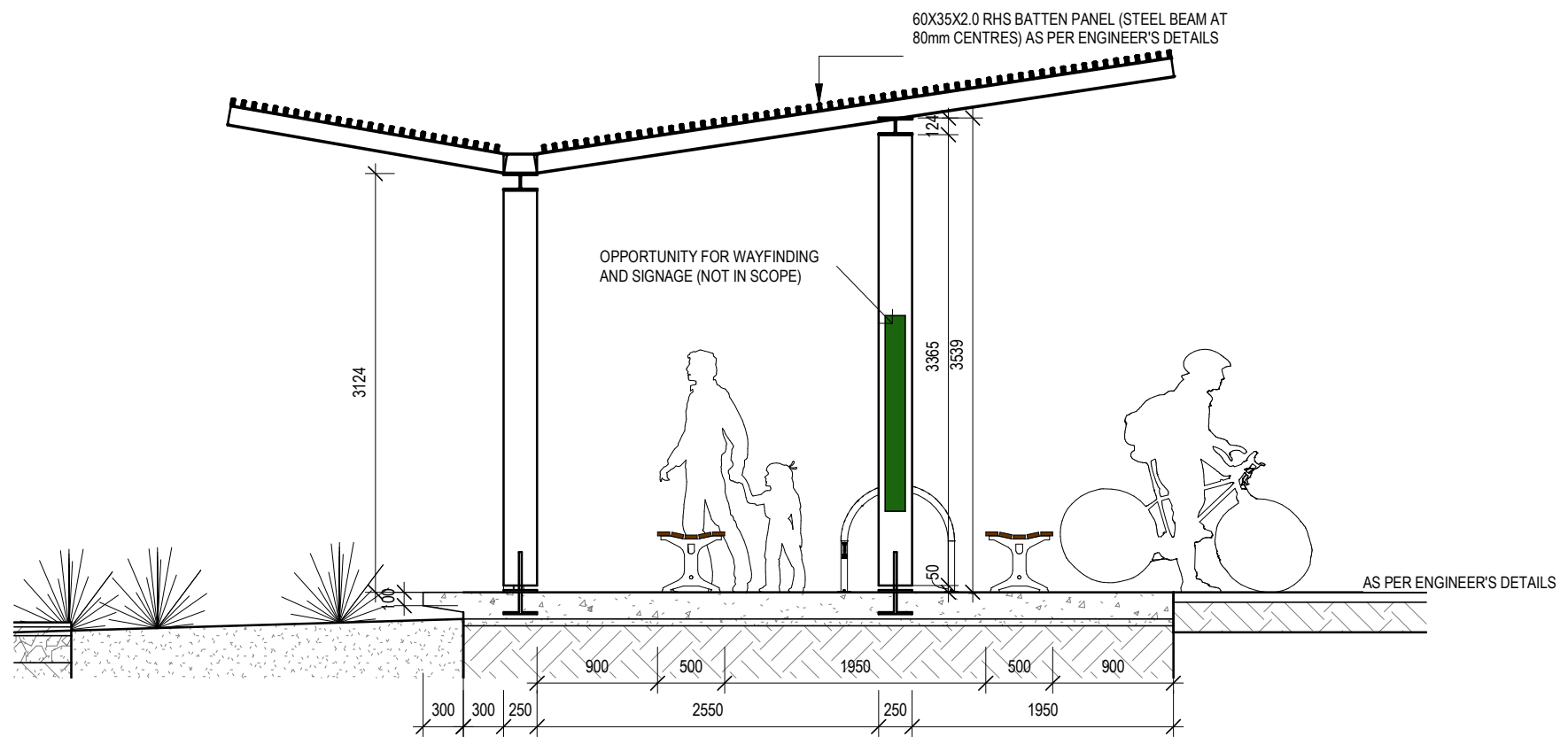
Drawn	A. GOYAL	Designer	A. GOYAL
Drafting Check	C. PURDON	Design Check	L. ALLEN
Approved (Project Director)	Approver		
Date			
Scale	1 : 200		

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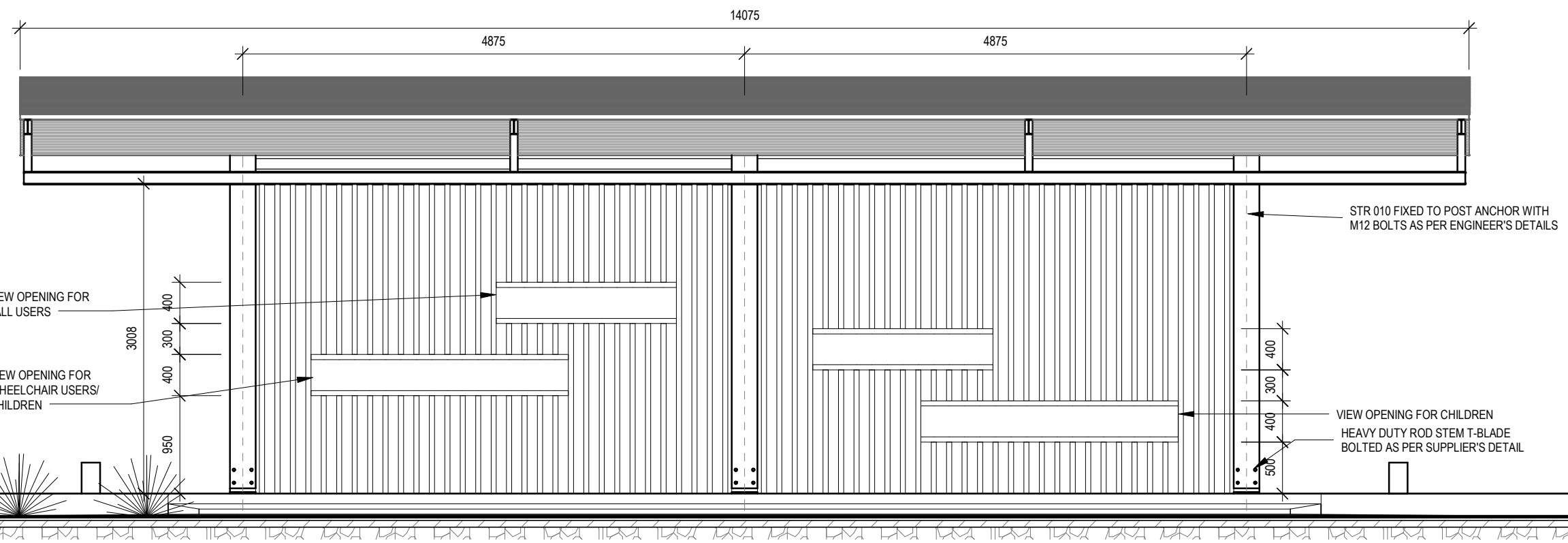
Client **CITY OF NEWCASTLE**
Project **SHORTLAND TO TARRO CYCLEWAY**
Title **SHELTERED REST AREA
PLAN AND PERSPECTIVE**

Original Size **A3** Drawing No: **22-18317 - D1006** Rev: **B**

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
B	DA SUBMISSION		K.K	K.R	S.J	29.11.19
A	DA SUBMISSION		K.K	K.R	S.J	11.4.18



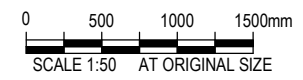
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2 ELEVATION
D1006 SCALE 1:50

PRELIMINARY

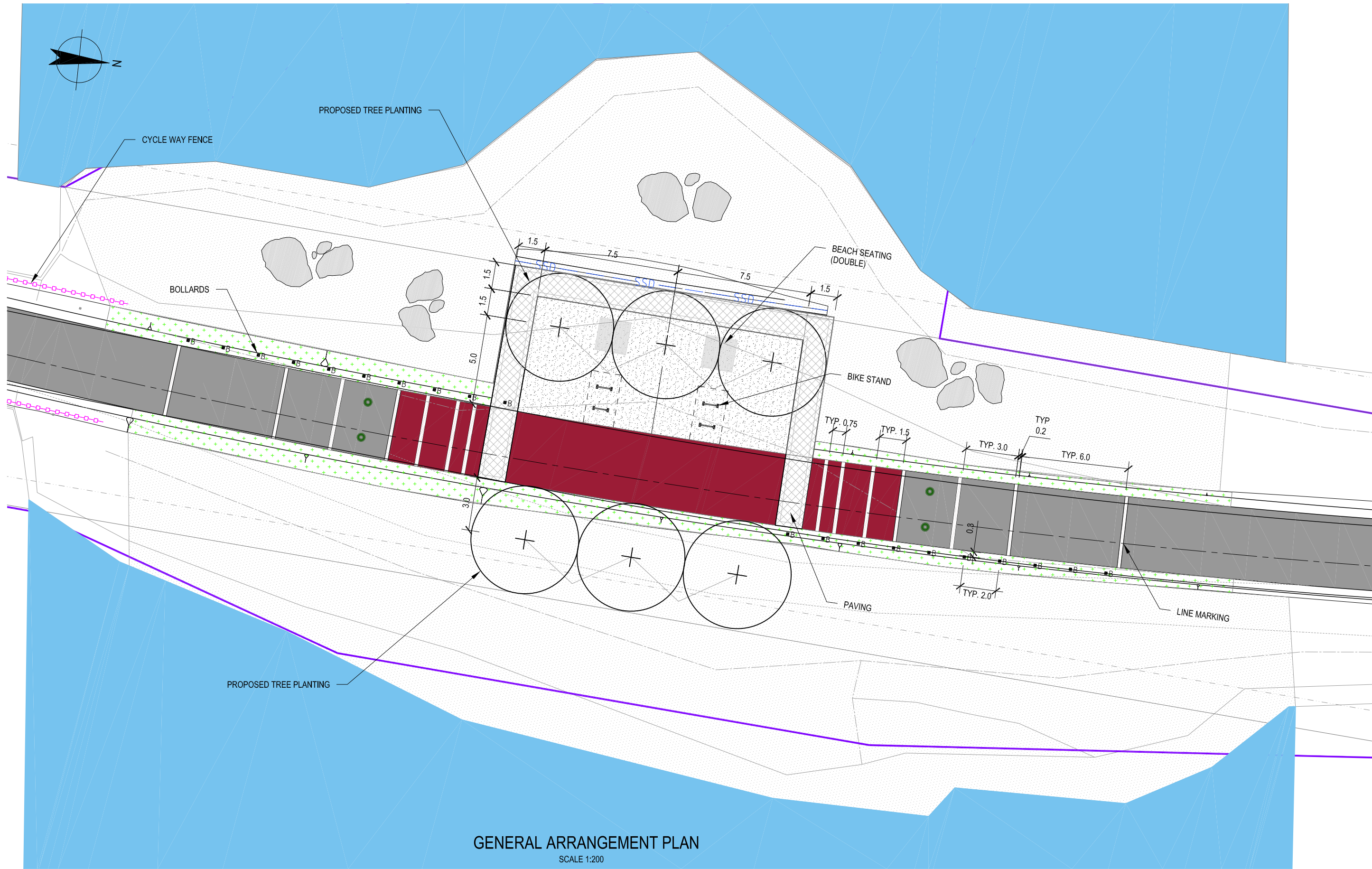
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Manager	Project Director	Date
B	DA SUBMISSION		K.K	K.R	S.J	29.11.19
A	DA SUBMISSION		K.K	K.R	S.J	11.4.18



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	Drafting Check	C. PURDON	Design Check	L. ALLEN
	Approved (Project Director)		Approver	
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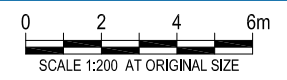
Client	CITY OF NEWCASTLE
Project	SHORTLAND TO TARRO CYCLEWAY
Title	SHELTERED REST AREA SECTION AND ELEVATION
Original Size	A3
Drawing No:	22-18317 - D1007
Rev:	B



GENERAL ARRANGEMENT PLAN
SCALE 1:200

PRELIMINARY

B	TITLE BLOCK AMENDED	BS	KR	PY	28.11.19	
A	DA SUBMISSION	KK	KR	SJ	11.04.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

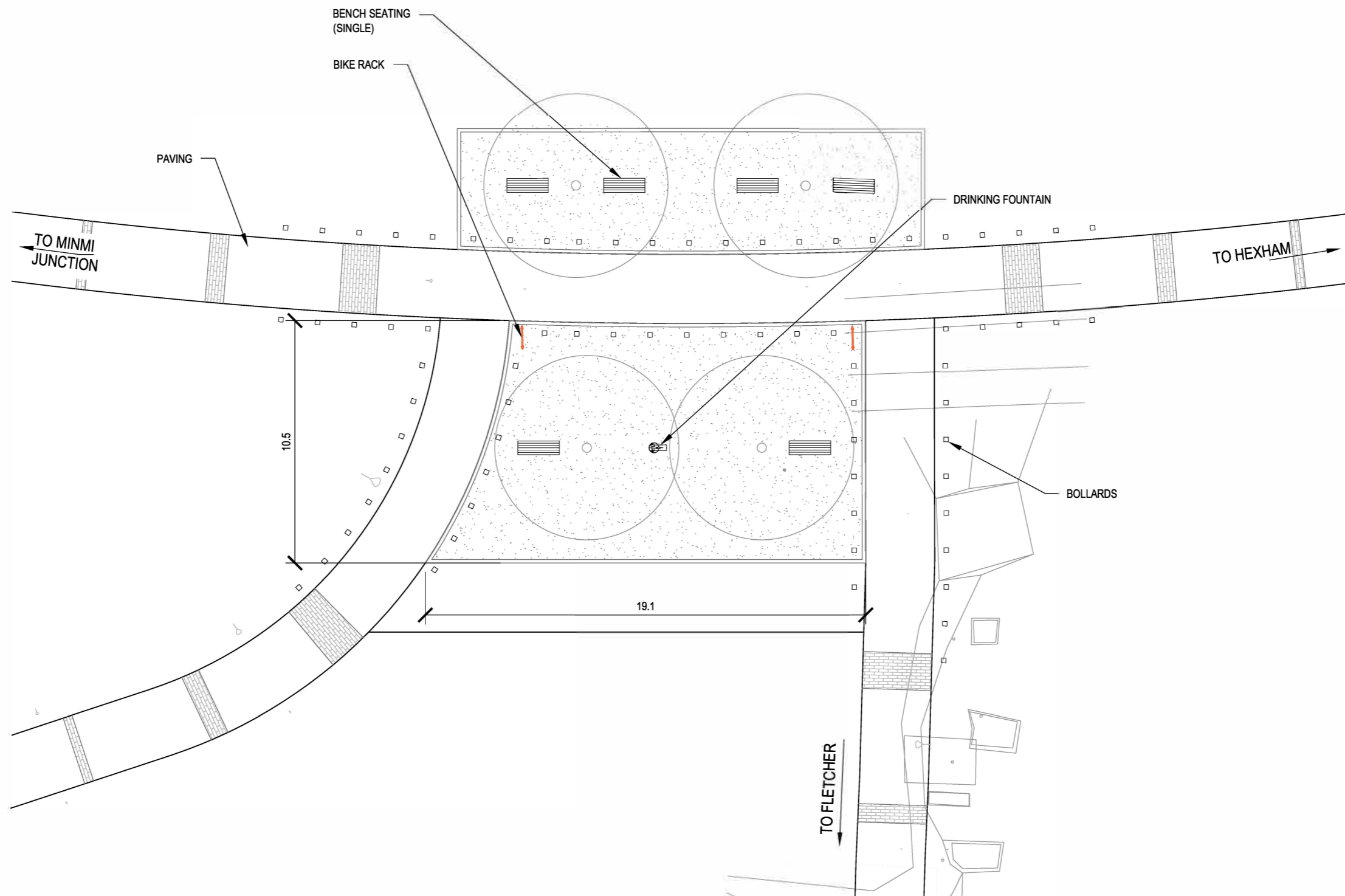
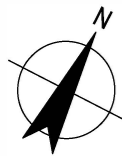


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Drafting Check	C.PURDON	Design Check	
Approved (Project Director)	Date		
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Client	CITY OF NEWCASTLE		
Project	SHORTLAND TO TARRO CYCLEWAY		
Title	REST AREA GENERAL ARRANGEMENT PLAN		
Original Size	A3	Drawing No:	22-18317-D1008
		Rev:	B

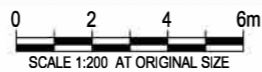


GENERAL ARRANGEMENT PLAN

SCALE 1:200

PRELIMINARY

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B	TITLE BLOCK AMENDED		BS	KR	PY	28.11.19
A	DA SUBMISSION		KK	KR	SJ	11.04.18



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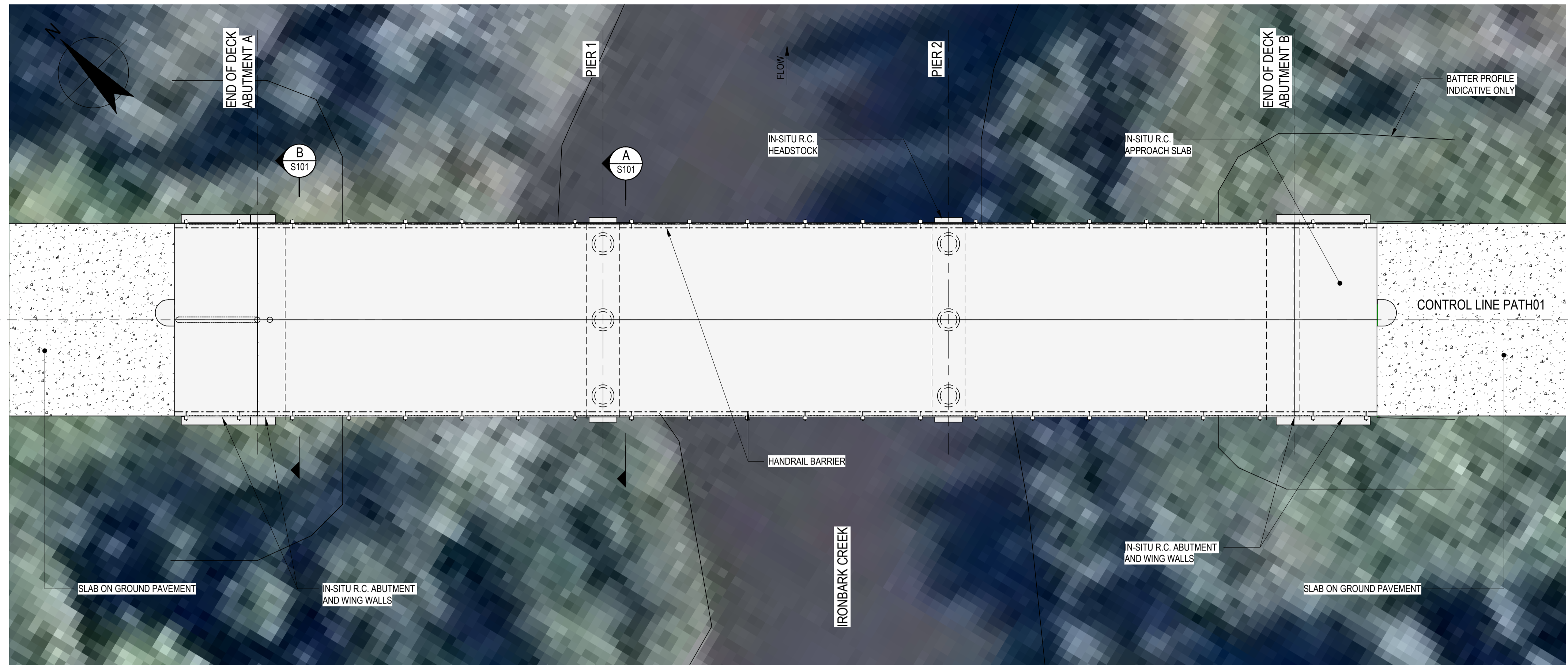
DO NOT SCALE

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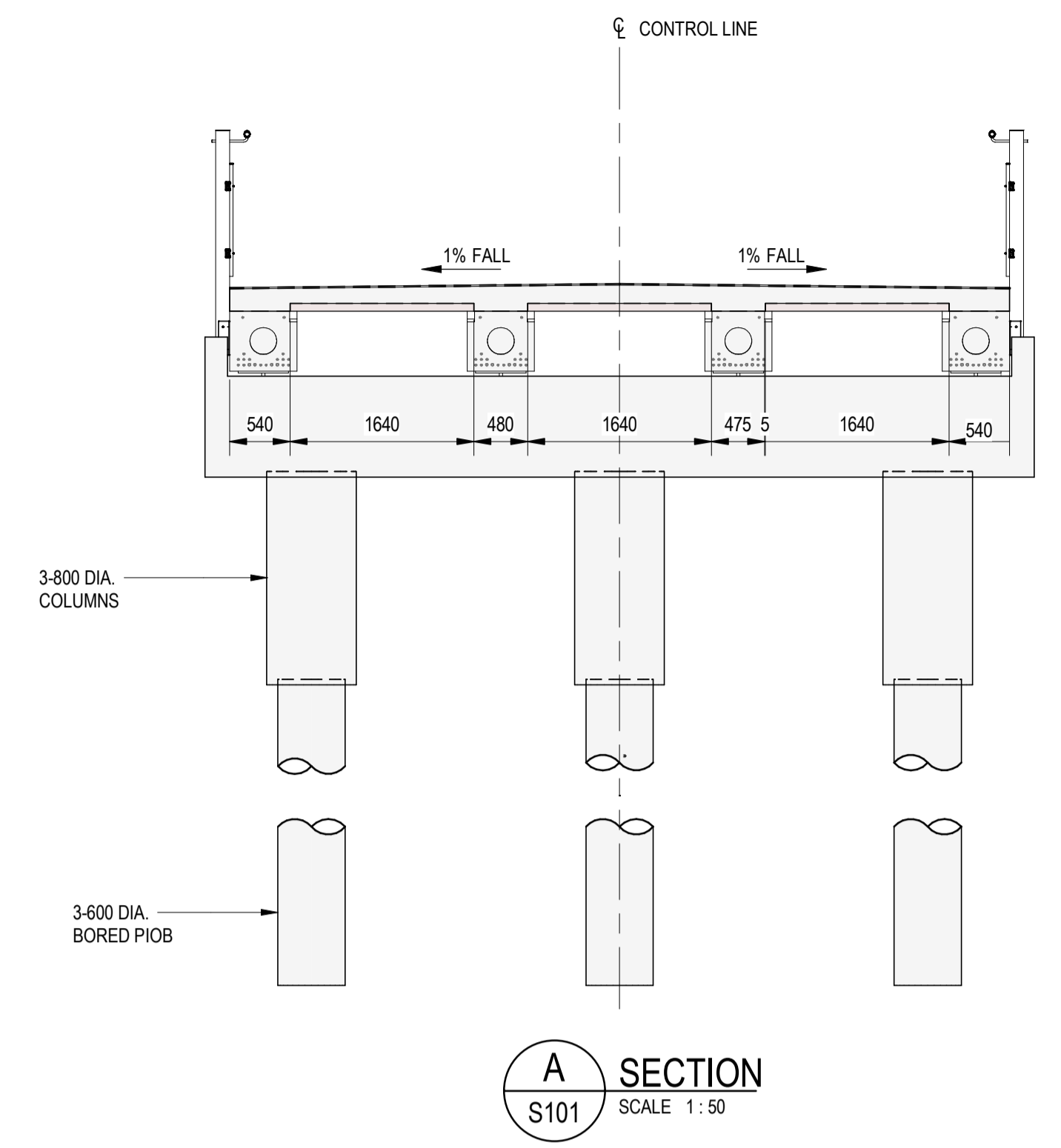
Drawn	K.KAMINSKI	Designer	L.ALLEN
Drafting Check	C.PURDON	Design Check	
Approved (Project Director)			
Date			
Scale	1:200		

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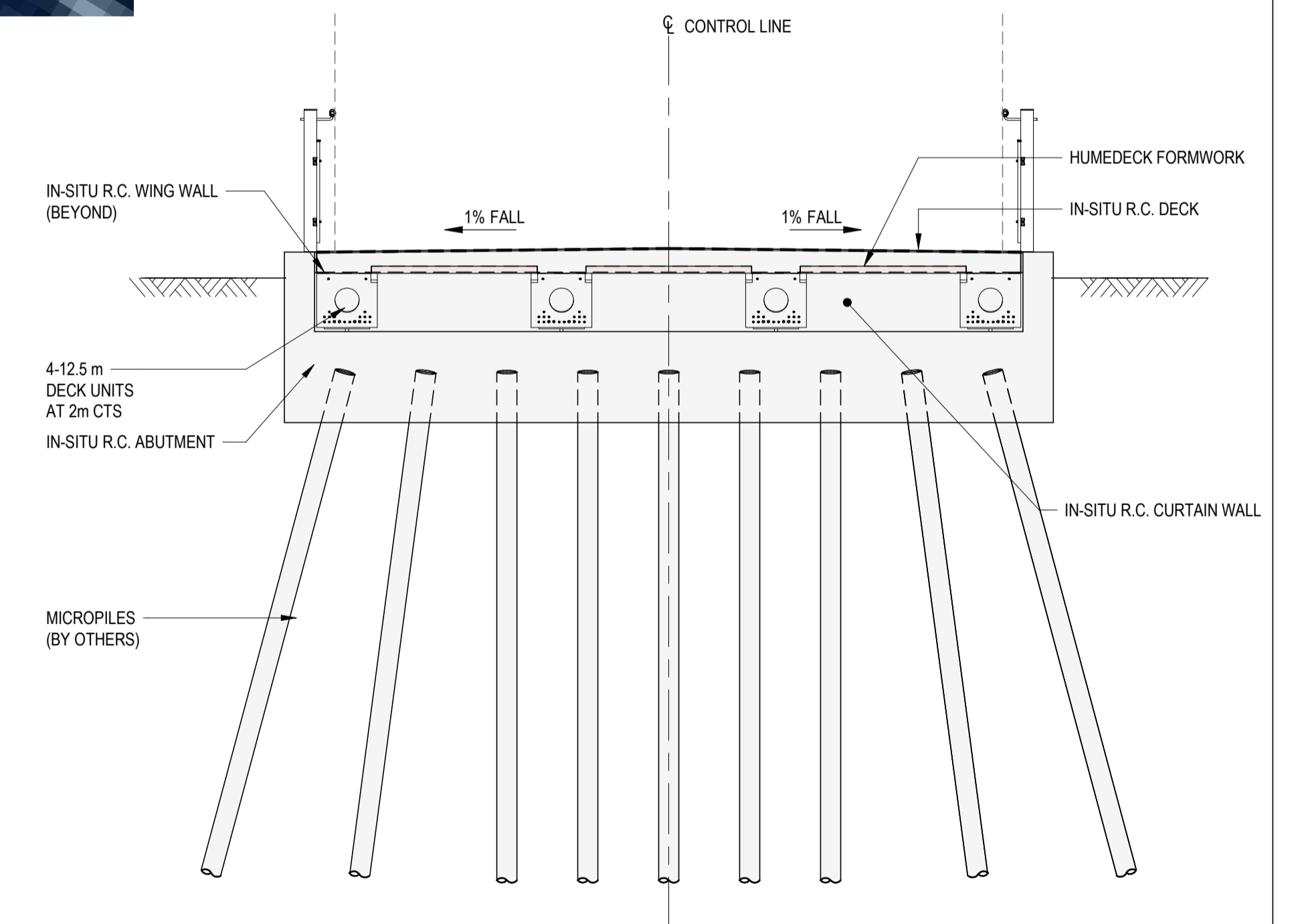
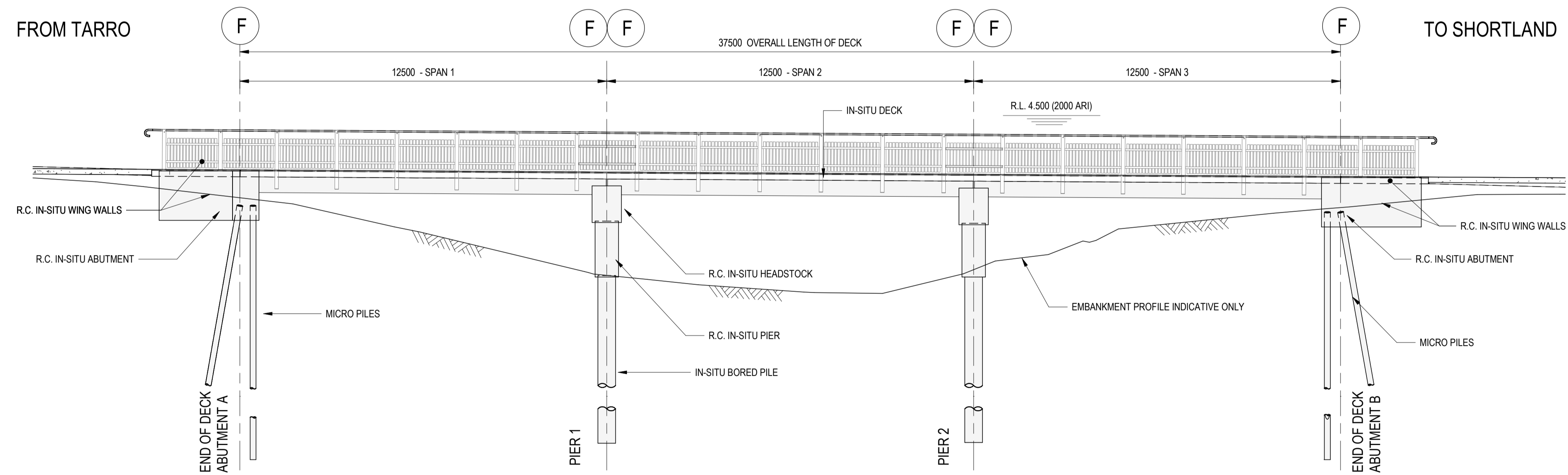
Client	CITY OF NEWCASTLE
Project	SHORTLAND TO TARRO CYCLEWAY
Title	MINMI JUNCTION REST AREA GENERAL ARRANGEMENT PLAN
Original Size	A3
Drawing No:	22-18317-D1009
Rev:	B



GENERAL ARRANGEMENT - PLAN
SCALE 1:100



A SECTION
S101 SCALE 1:50



B SECTION
S101 SCALE 1:50

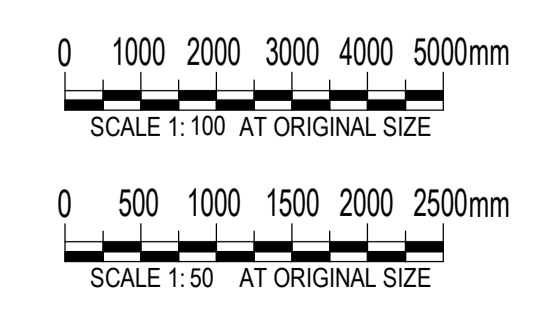
DESIGN SURFACE LEVEL	2.649	2.574	2.499	2.391
NATURAL SURFACE LEVEL	1.701	-0.946	-0.746	1.365
CHAINAGE	582.080	594.880	607.080	619.880

ELEVATION
SCALE 1:100

- GENERAL NOTES**
- DIMENSIONS ARE IN MILLIMETERS.
 - REDUCED LEVELS ARE RELATED TO THE AUSTRALIAN HEIGHT DATUM.

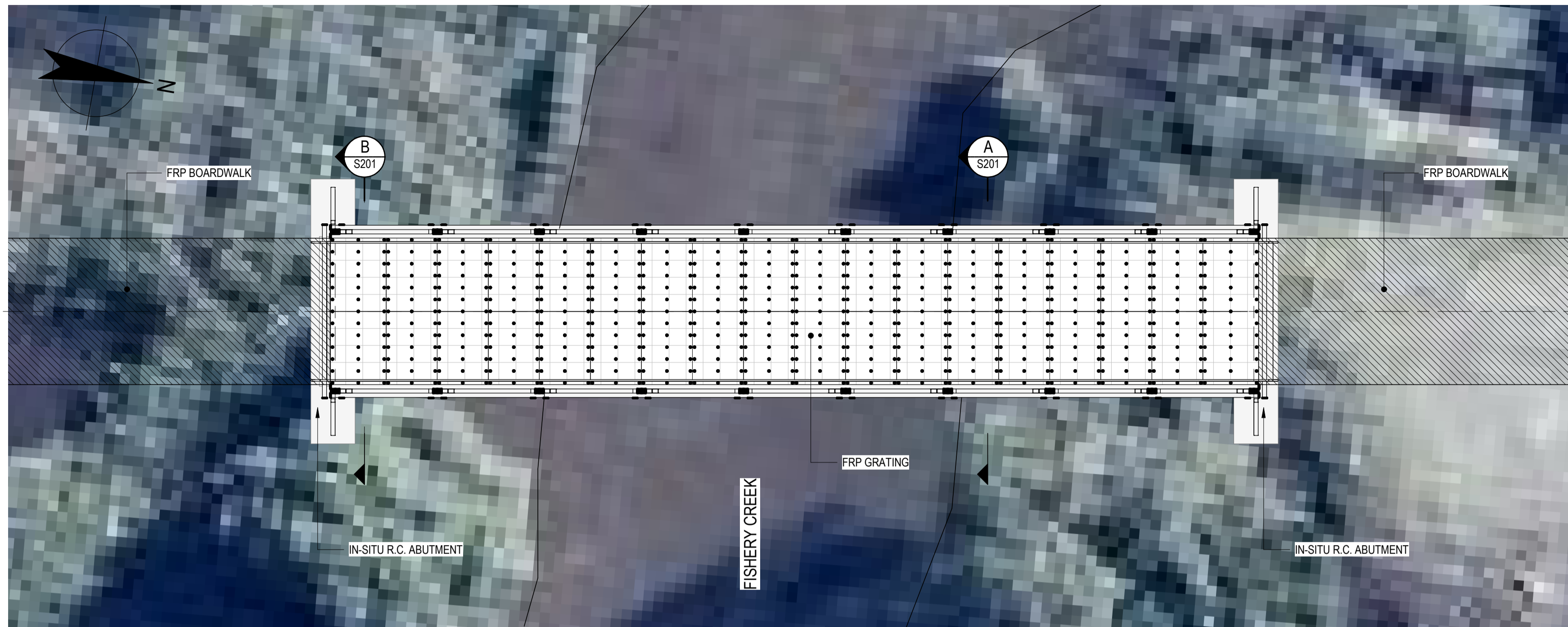
PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
D	DA SUBMISSION		K.K.	K.R.	P.Y.	29.11.19
C	100% CONCEPT DESIGN		R.G.	K.R.	P.Y.	07.07.17
B	DESIGN ISSUE		R.G.	J.W.		30.05.15
A	50% DESIGN ISSUE		J.W.			22.03.17

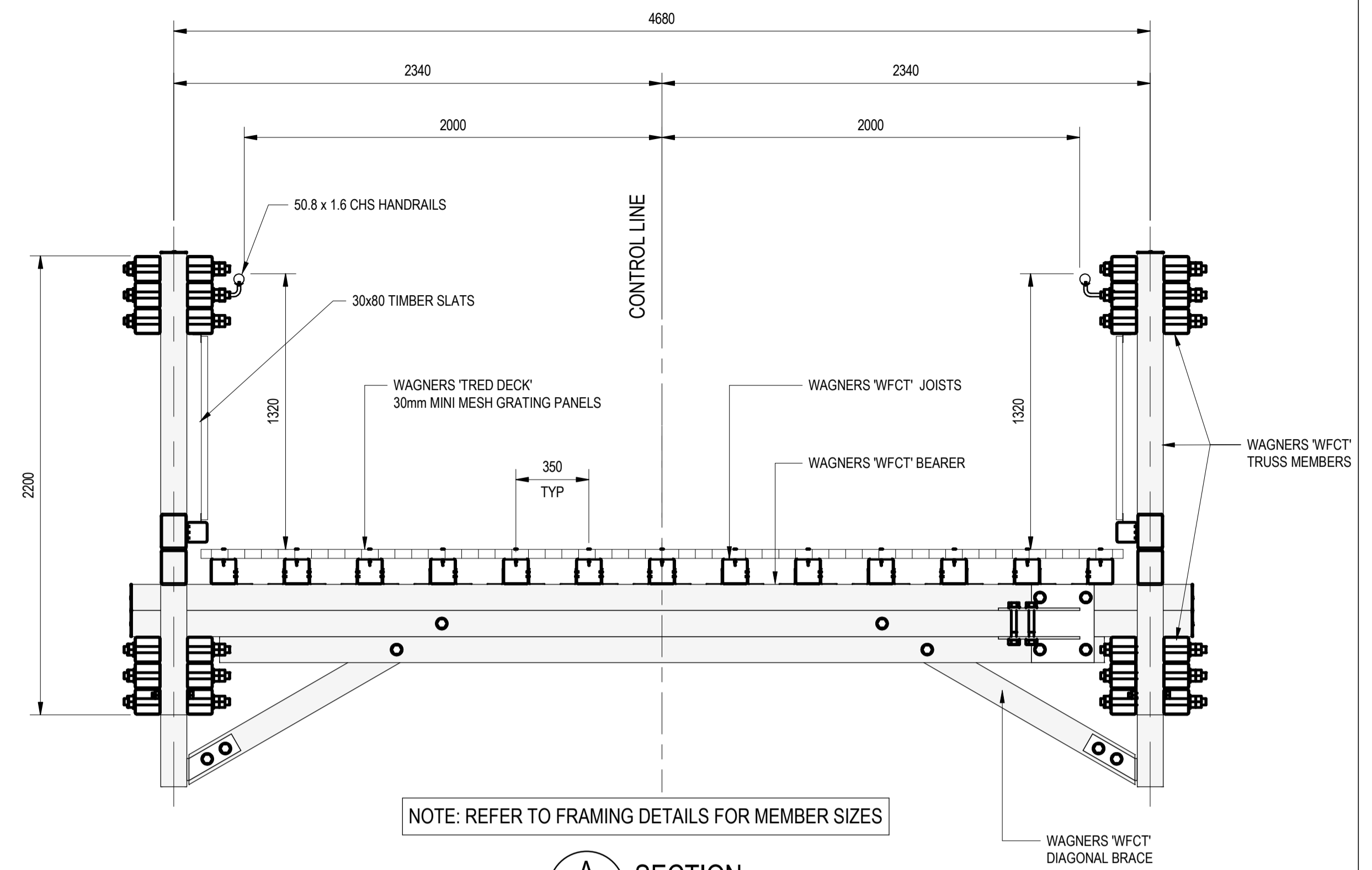


DO NOT SCALE	Drawn J.WIVELL	Designer T.HANSEN
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	Approved (Project Director)	Nominated / Responsible Architect
	Scale As indicated	This Drawing must not be used for construction unless signed as approved.

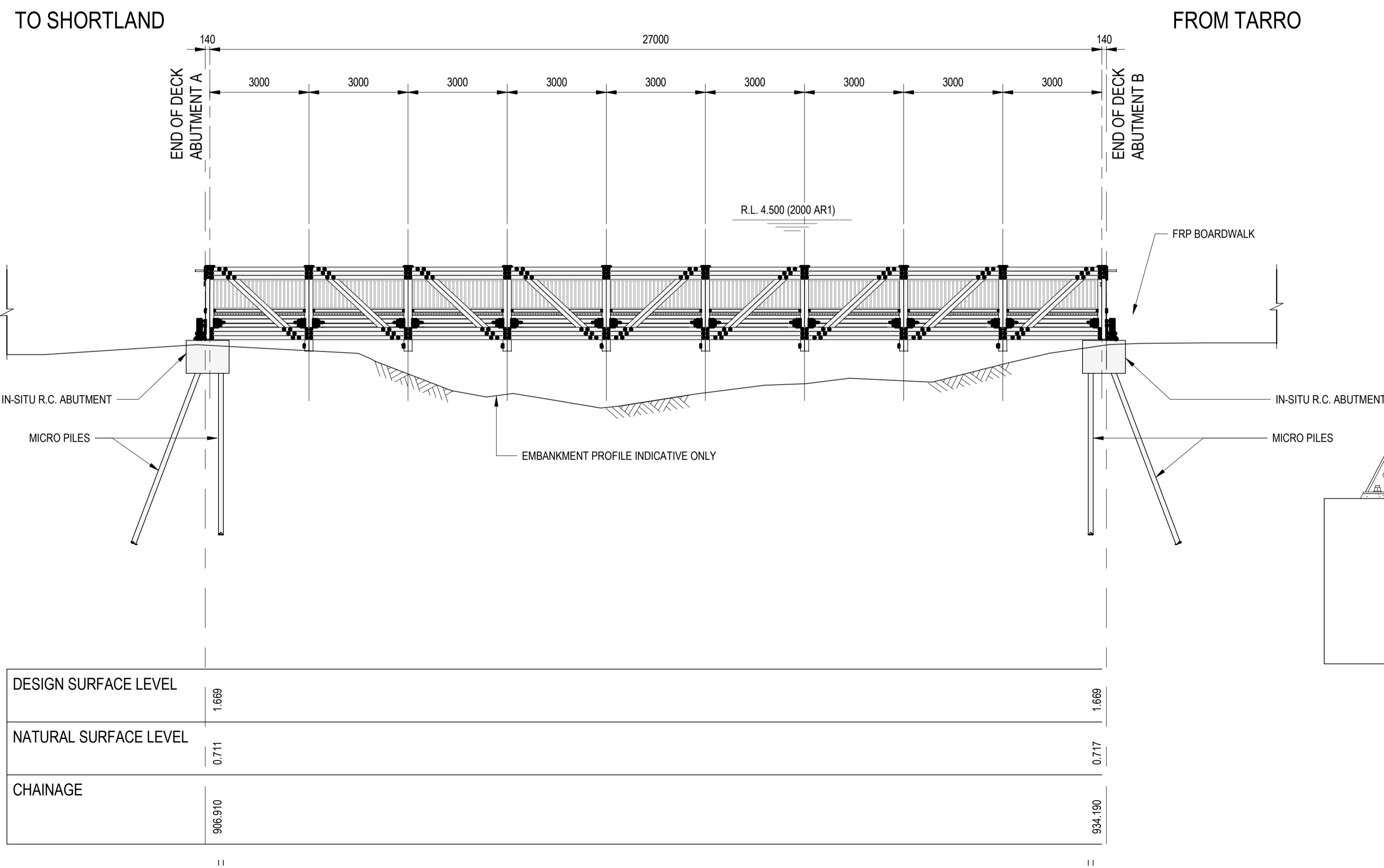
Client	CITY OF NEWCASTLE
Project	RICHMOND VALE RAIL TRAIL
Title	IRONBARK CREEK BRIDGE
	GENERAL ARRANGEMENT
Original Size	A1
Drawing No:	22-18317-S101
Rev:	D



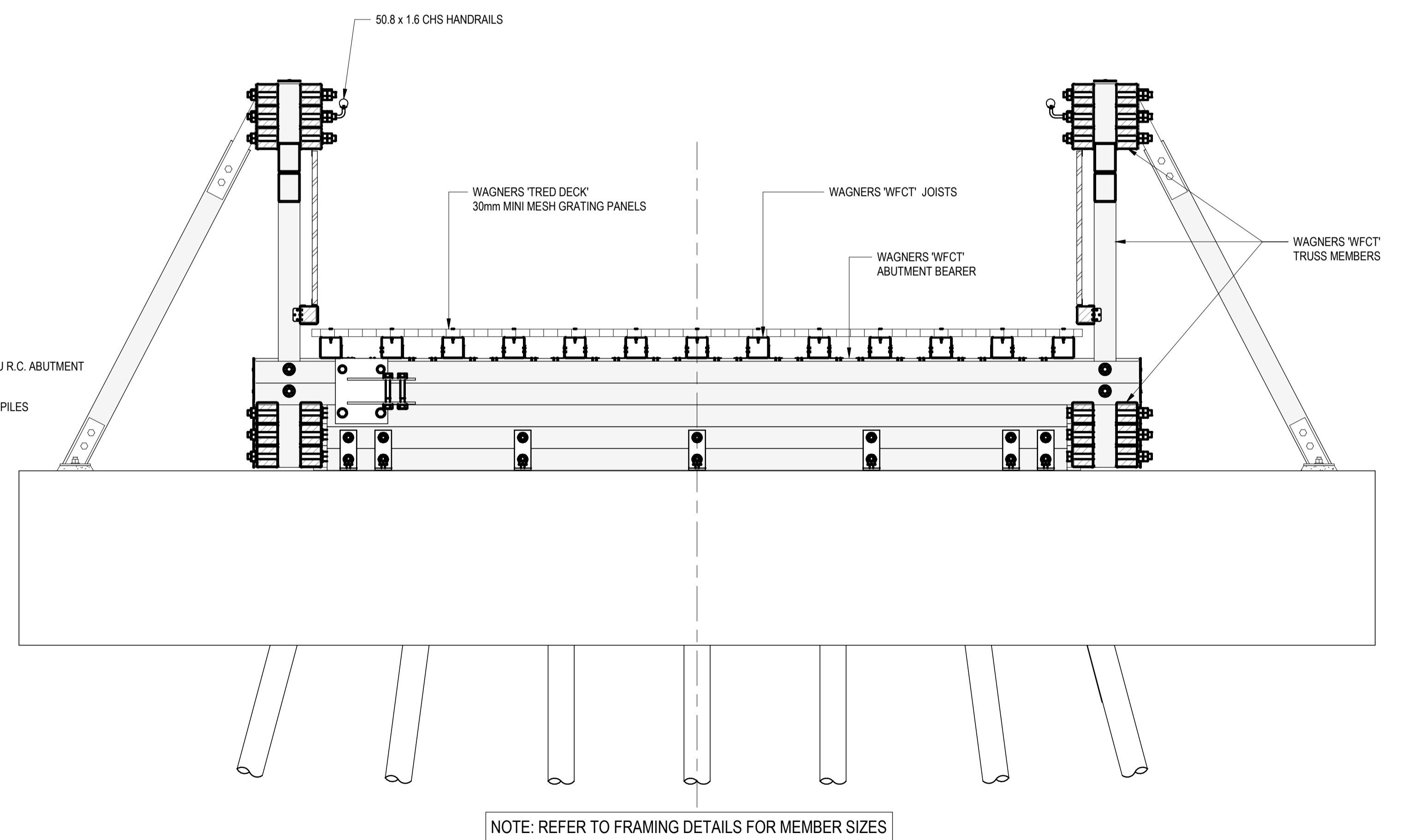
GENERAL ARRANGEMENT - PLAN
SCALE 1 : 100



A SECTION
S201 SCALE 1 : 20



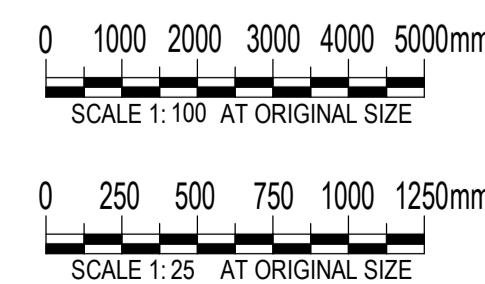
ELEVATION
SCALE 1 : 100



B SECTION
S201 SCALE 1 : 20

PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
C	DA SUBMISSION		K.K.	K.R.	P.Y.	29.11.19
B	100% CONCEPT DESIGN		R.G.	K.R.	P.Y.	07.07.17
A	50% DESIGN ISSUE		J.W.			22.03.17



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Drawn J.WIVELL
Designer E.MERUVIA
Drafting Check Design Check
Approved (Project Director)
Nominated / Responsible Architect
Scale As indicated
This Drawing must not be used for construction unless signed as approved.

Client **CITY OF NEWCASTLE**
Project **RICHMOND VALE RAIL TRAIL**
Title **FISHERY CREEK BRIDGE**
GENERAL ARRANGEMENT
Original Size Drawing No: **22-18317-S201**

Rev: C