AURECON GROUP ST GEORGE ILLAWARRA DRAGONS NORTH WOLLONGONG NSW 2500, AUSTRALIA CIVIL SERVICES



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	aurecon
	SYDNEY
	LEVEL 11 73 Miller Street North Sydney, NSW 2060
	AUSTRALIA t: +61(0) 2 9465 5599 f: +61(0) 2 9465 5598 www.aurecongroup.com
	PROJECT
	ST. GEORGE ILLAWARRA DRAGONS
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roup.com	CIVIL WORKS
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FOR TENDER	SCALE 100% @ A1 NORTH POINT
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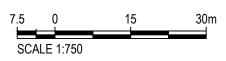
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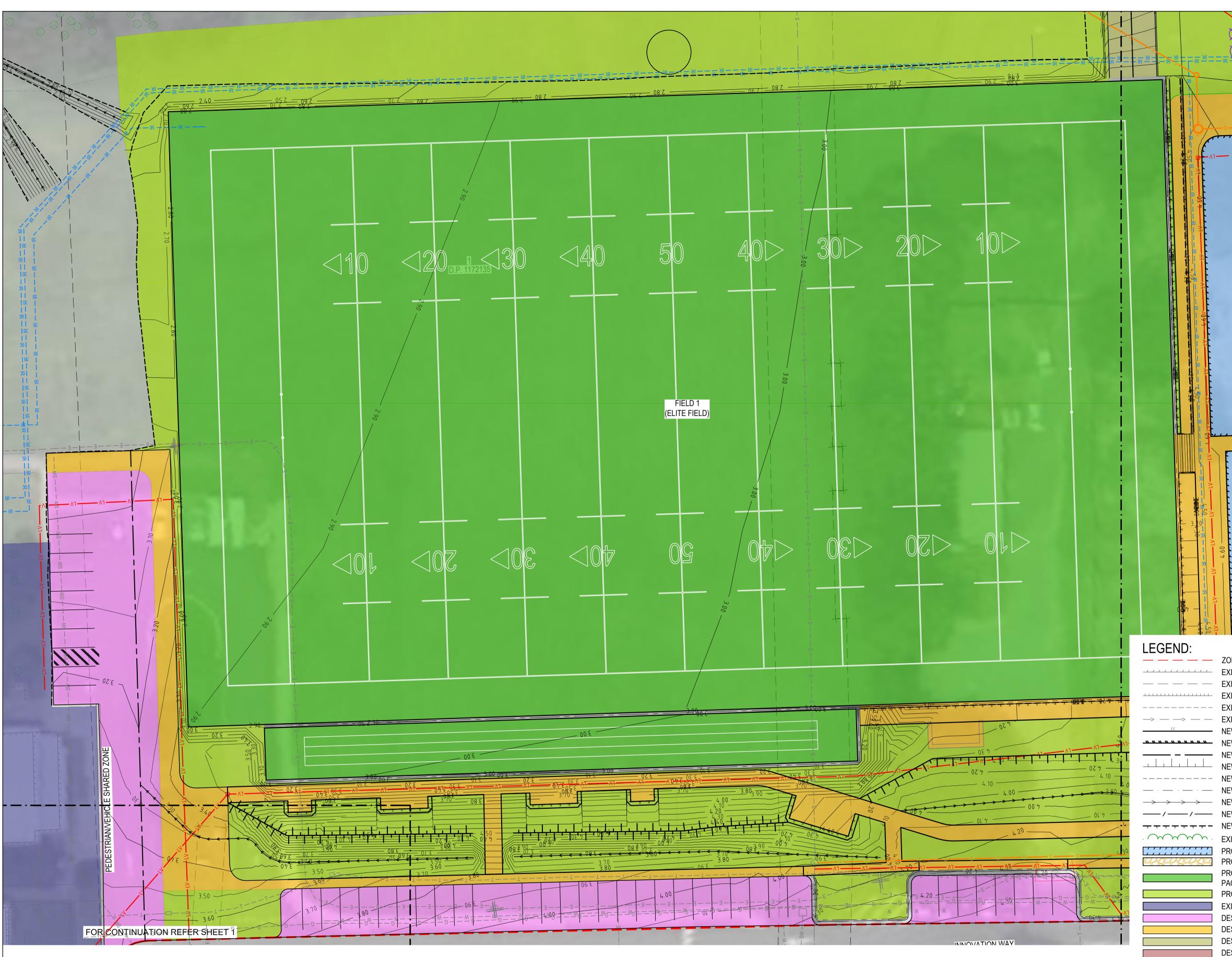


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PROPOSED ROCK SCOUR PROTECTION PROPOSED SPORT FACILITIES - REFER SPORTSENG	aurecon Sydney
PACKAGE FOR DETAILS PROPOSED GRASSED AREA EXISTING HERITAGE PROTECTION ZONE	LEVEL 11 73 Miller Street North Sydney, NSW 2060 AUSTRALIA t: +61(0) 2 9465 5599
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NOTE: ALL DRAWINGS ARE BASED ON FROZEN	PROJECT NUMBER DESIGNED
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- NOTES: 1. FOR COMPLETE NOTES REFER TO DRAWINGS CI-00002. 2. FOR PAVEMENT DETAILS REFER TO DRAWING CI-00040.
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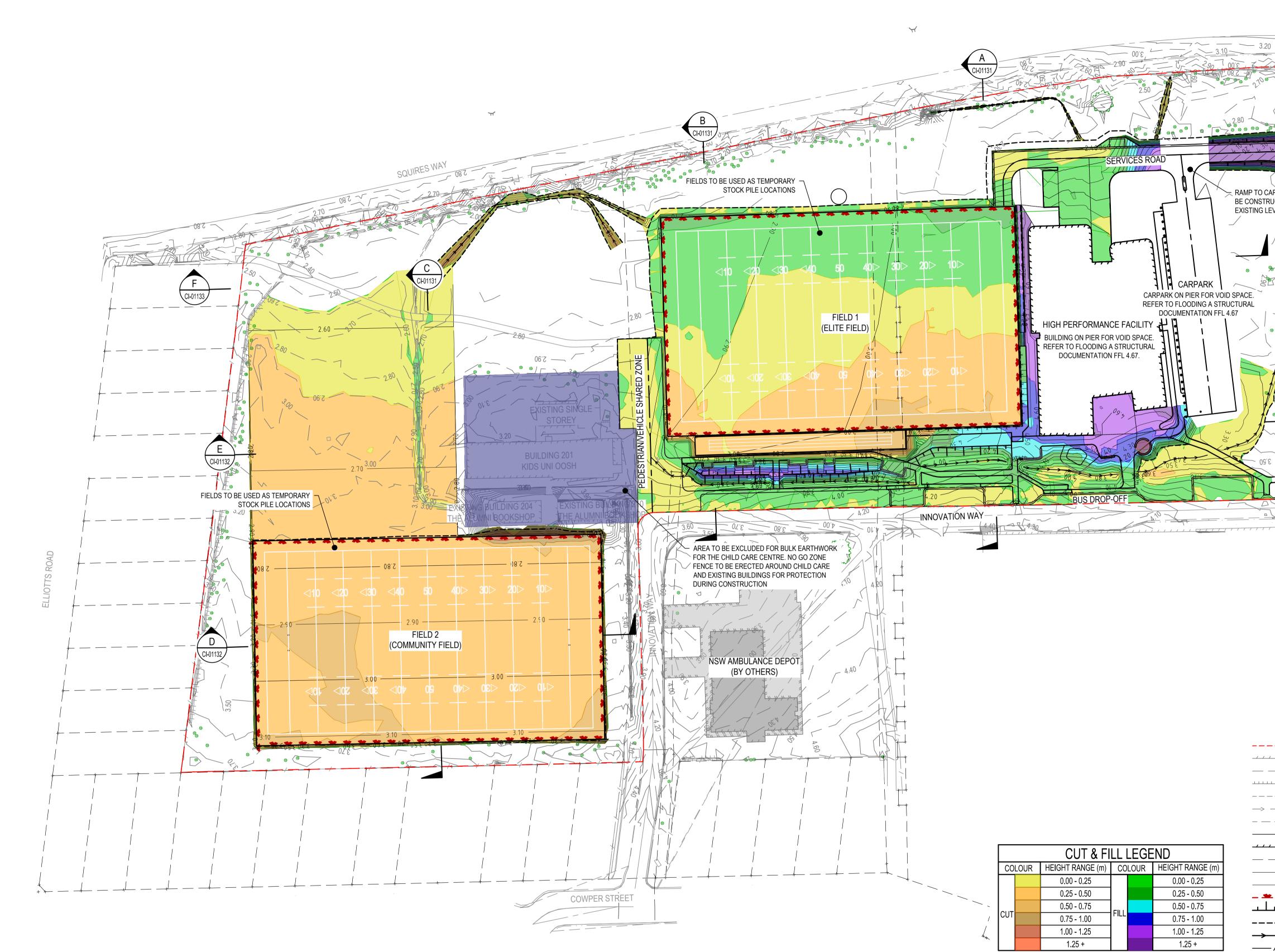
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ENT TYPE 4 - UNSEALED (GRAVEL LANDSCAPING) e risk of: equesting and checking them for accuracy against the original hard copy in writing by Aurecon. unless directed otherwise by the Principal/Engineer, the contractor shall le, or specification where applicable.	COMMUNITY & HIGH PERFORMANCE TRAINING CENTRE SHEET TITLE CIVIL WORKS GENERAL ARRANGEMENT LAYOUT PLAN SHEET 3
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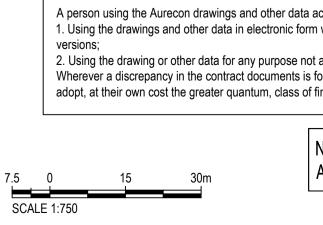
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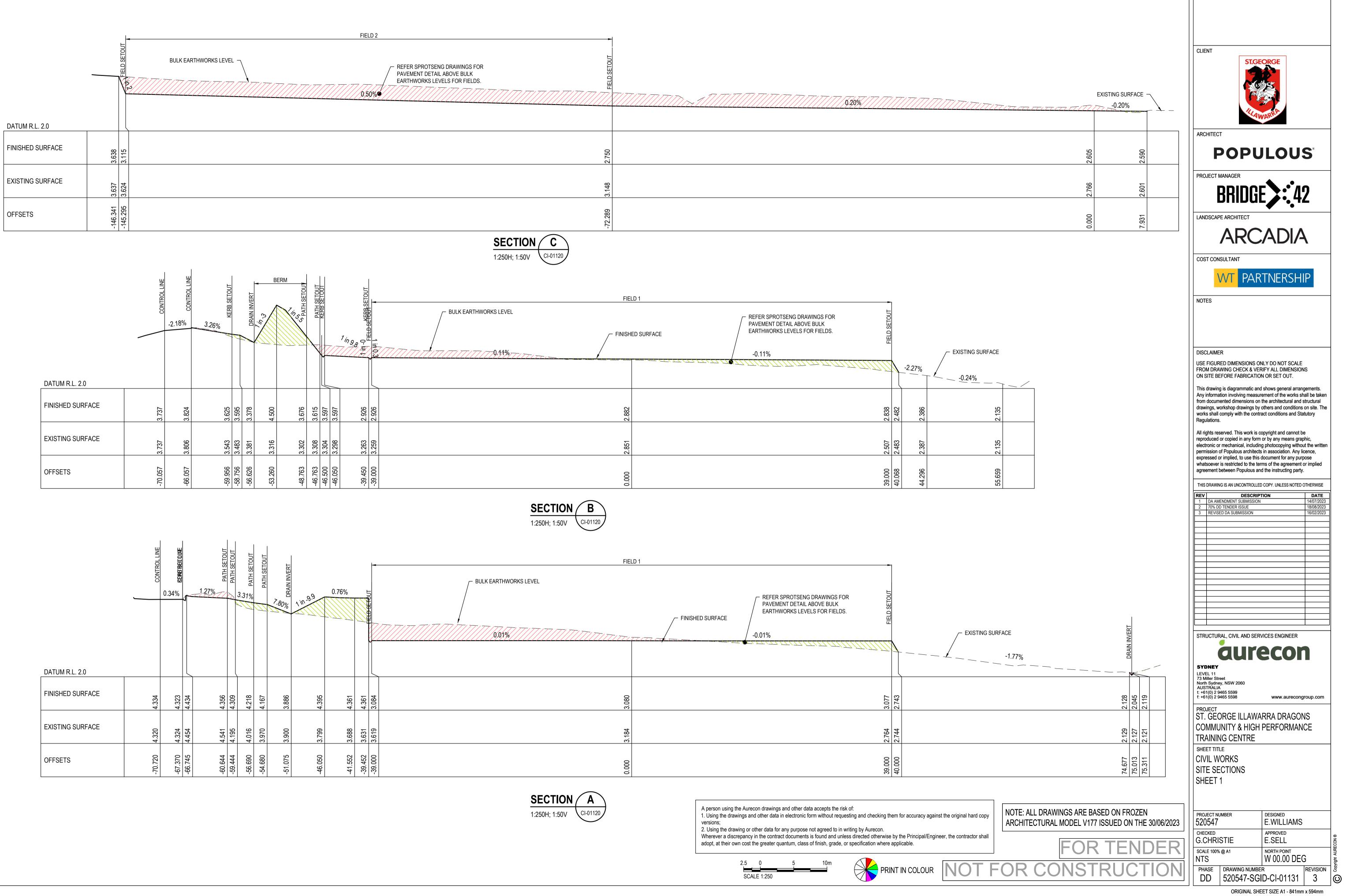
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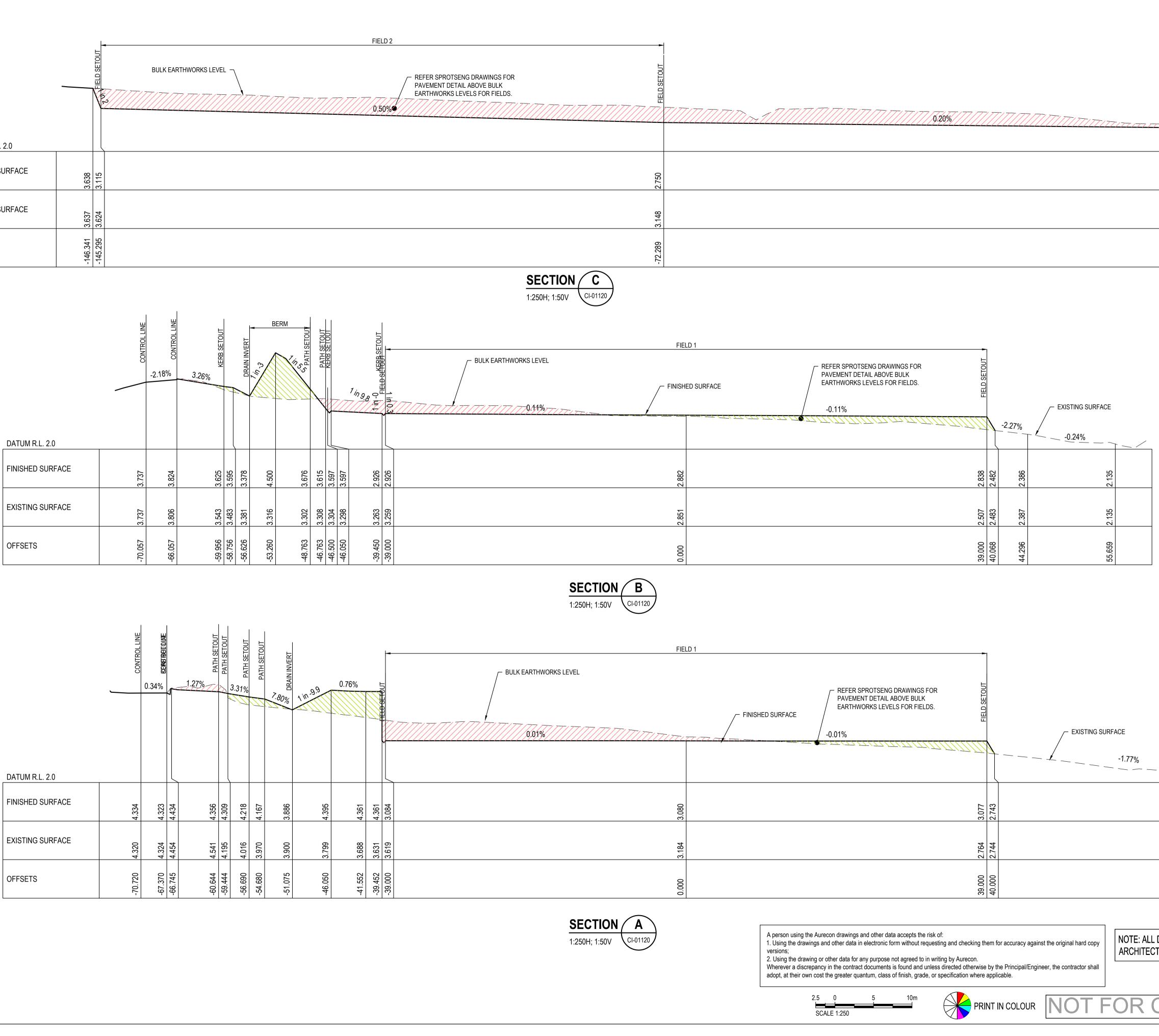
2. REFER DRAWINGS CI-0230 AND CI-0231 FOR BULK EARTHWORKS SECTIONS.





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	CIVIL WORKS SITE SECTIONS SHEET 1		
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ORIGINAL SHEET SIZE A1 - 841mm x 594mm

<u> </u>	EXISTING SURFACE	
2.605	2.590	
2.766	2.601	
0.00	7.931	

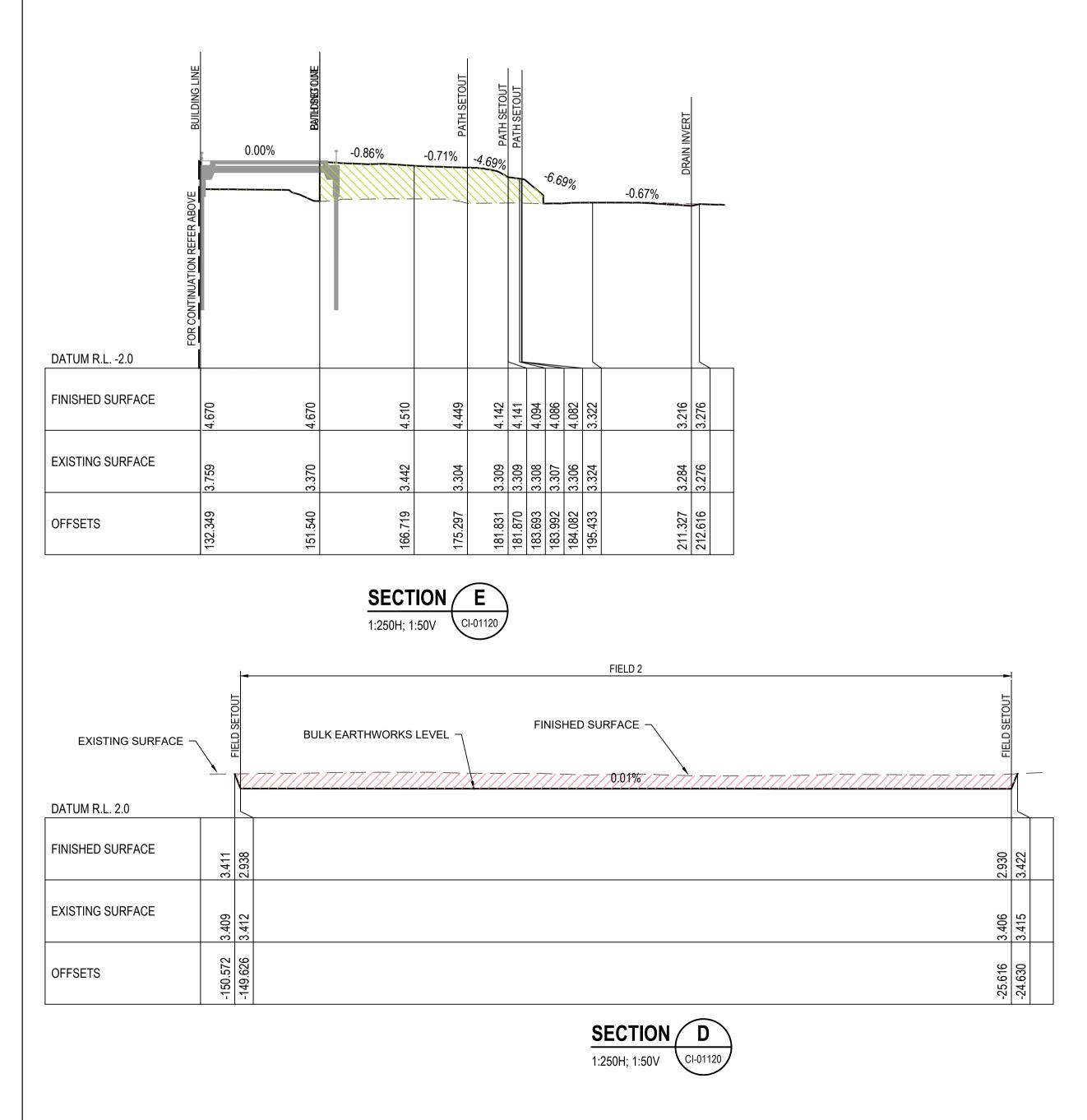
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1. EDGE OF WORKS TO JOIN NEATLY TO EXISTING SURFACES

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	2.128	2.045	2.119	
	2.129	2.127	2.121	
	74.677	75.013	75.311	

NOTE: ALL DRAWINGS ARE BASED ON FROZEN ARCHITECTURAL MODEL V177 ISSUED ON THE 30/06/

				1		RUNNING TRACK	→						
	0.04		EXISTING SURFACE - 2.34%		KEKB SETOUT	0.18%	KERB SETOU	BULK	EARTHW	NG SURI ORKS LE 1.45°			3.81
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FINISHED SURFACE	2.982	2.954	3.327	3.413 3.428	3.530		3.002 3.650 3.893	4.130 4.130	4.130 4.130 4.199	4.271 1 313	4.416	4.450 4.450	4.450 1 150
EXISTING SURFACE	3.072	3.094	3.333	3.357 3.348	3.263		3.678 3.678 3.656	3.655 3.655	3.654 3.654 3.661	3.663 3.706	3.661	3.654 3.652	3.632 2 £ 1 1
OFFSETS	-149.316	-75.722	-11.403	-1.403 0.000	9.504		84.504 84.954 89.768	94.454 94.768	99.768 100.004 104.768	109.768 114 768	119.768	122.147 122.311	124.768 175.951





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2.5 0 5 10m SCALE 1:250





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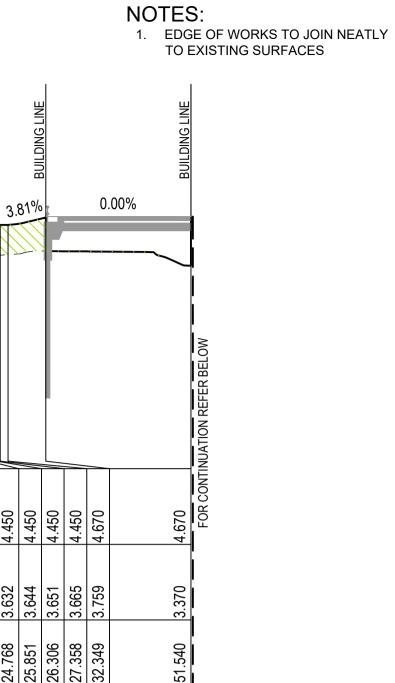
 3
 REVISED DA SUBMISSION
 DATE DESCRIPTION 14/07/2023 18/08/2023 16/02/20 STRUCTURAL, CIVIL AND SERVICES ENGINEER aurecon SYDNEY LEVEL 11 73 Miller Street North Sydney, NSW 2060 AUSTRALIA t: +61(0) 2 9465 5599 f: +61(0) 2 9465 5598 www.aurecongroup.com PROJECT ST. GEORGE ILLAWARRA DRAGONS COMMUNITY & HIGH PERFORMANCE TRAINING CENTRE SHEET TITLE CIVIL WORKS SITE SECTIONS SHEET 2 OJECT NUMBER DESIGNED E.WILLIAMS APPROVED E.SELL CHRISTIE LE 100% @ A1 NORTH POINT W 00.00 DEG IASE DRAWING NUMBER REVISION 520547-SGID-CI-01132 3 0)D

ORIGINAL SHEET SIZE A1 - 841mm x 594mm

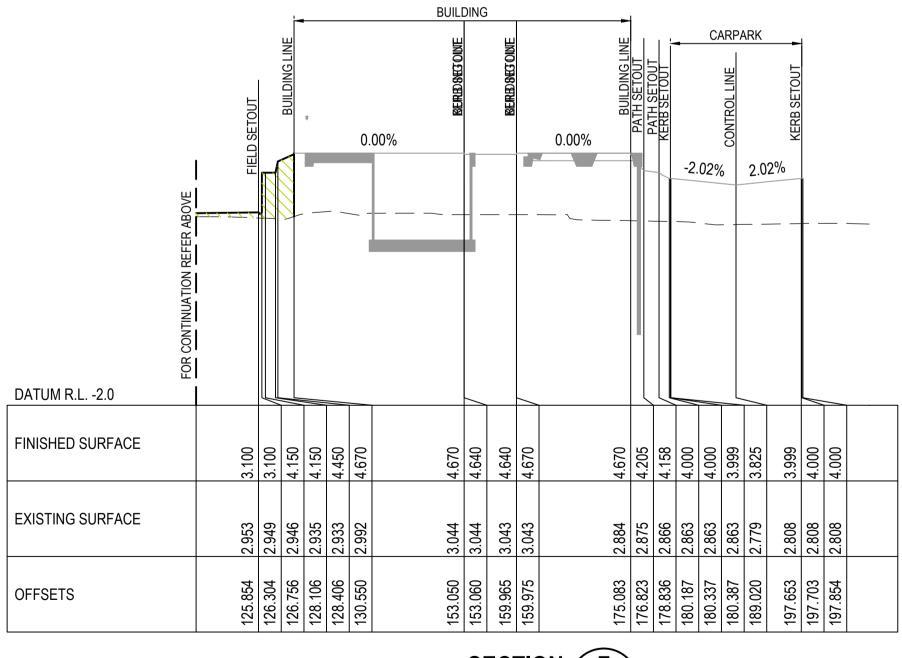
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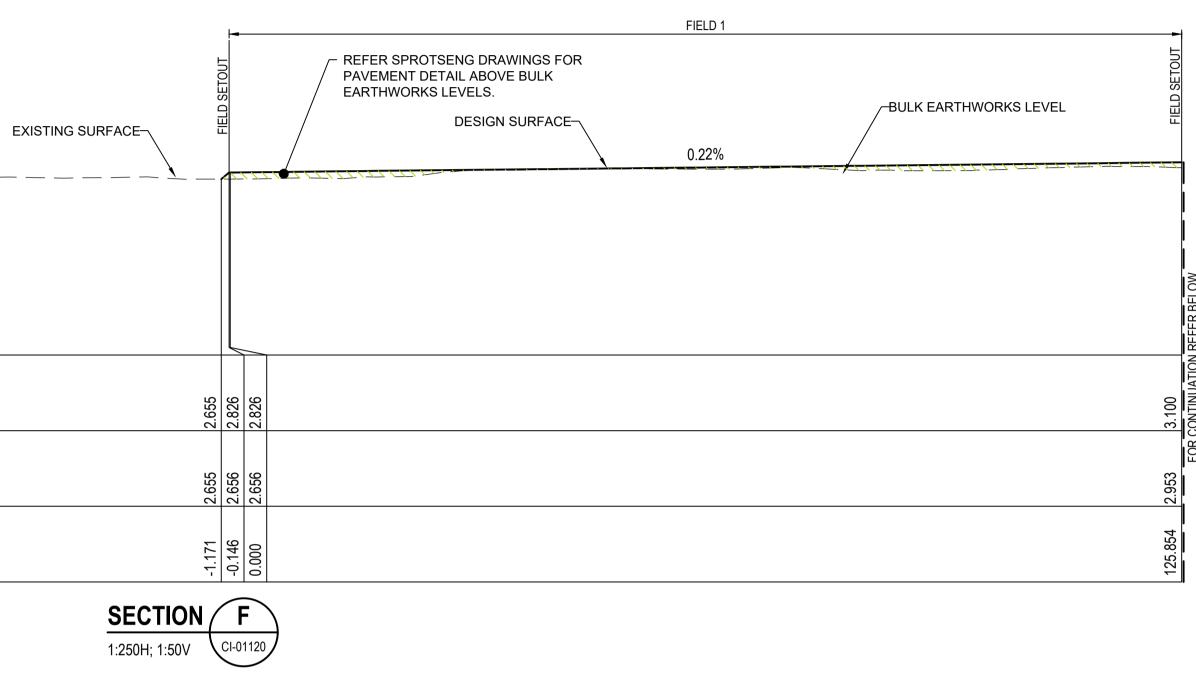
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EXISTING SURFACE	6	2	ω	9	2	2	
	2.579	2.572	2.568	2.626	2.625	2.682	
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SECTION F CI-01120 1:250H; 1:50V



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NOTES:

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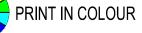
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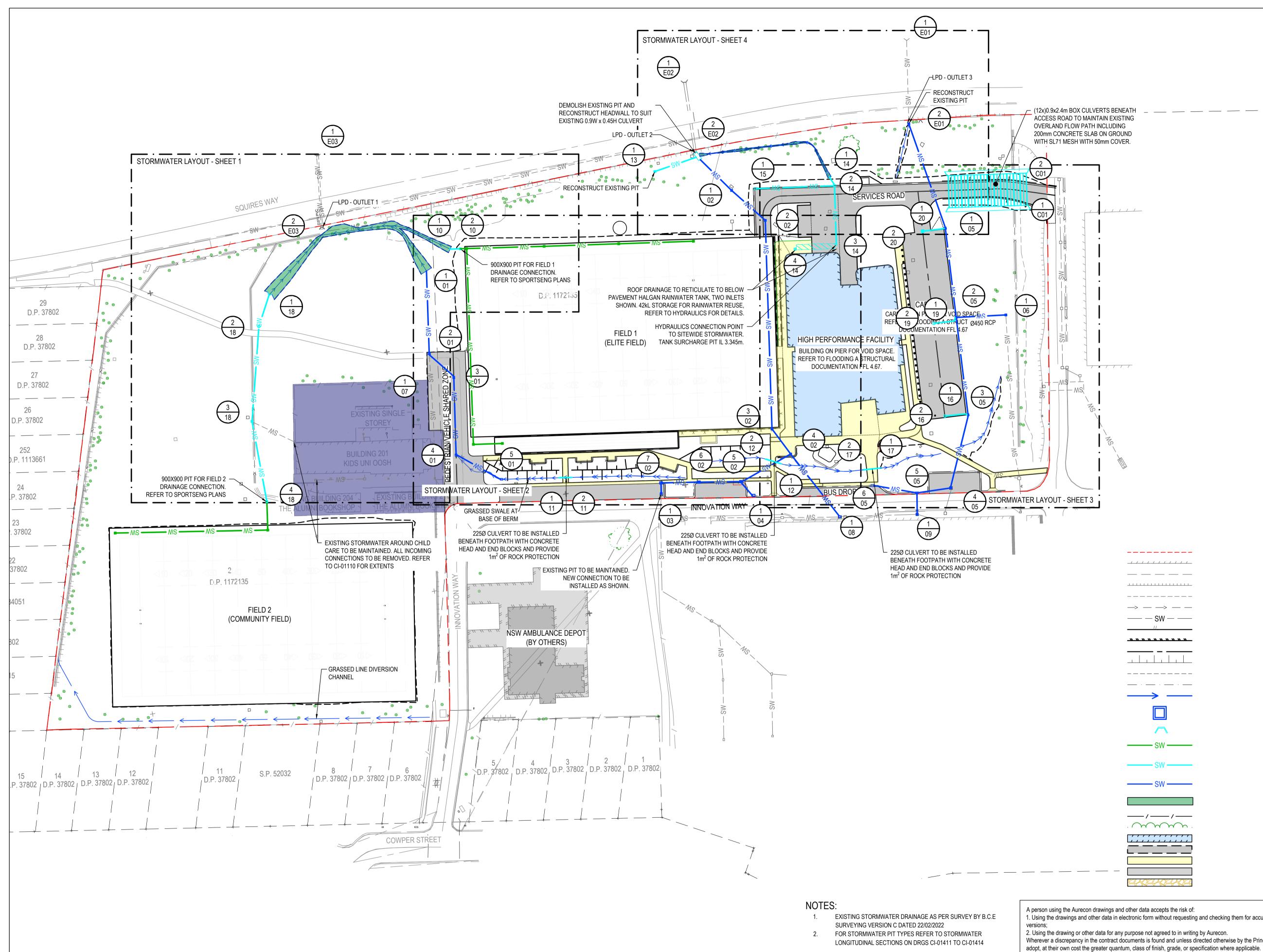






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ST.GEORG

ARCHITECT

POPULOUS

PROJECT MANAGER

LANDSCAPE ARCHITECT

ARCADIA

COST CONSULTANT

PARTNERSHIP

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1 DA AMENDMENT SUBMISSION

2 70% DD TENDER ISSUE 3 REVISED DA SUBMISSION

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ST. GEORGE ILLAWARRA DRAGONS COMMUNITY & HIGH PERFORMANCE

PROJECT TRAINING CENTRE

STRUCTURAL, CIVIL AND SERVICES ENGINEER

aurecon

SHEET TITLE CIVIL WORKS OVERALL

STORMWATER DRAINAGE

PROJECT NUMBER DESIGNED E.WILLIAMS 547 KED APPROVED E.SELL HRISTIE E 100% @ A1 NORTH POINT W 00.00 DEG SE DRAWING NUMBER

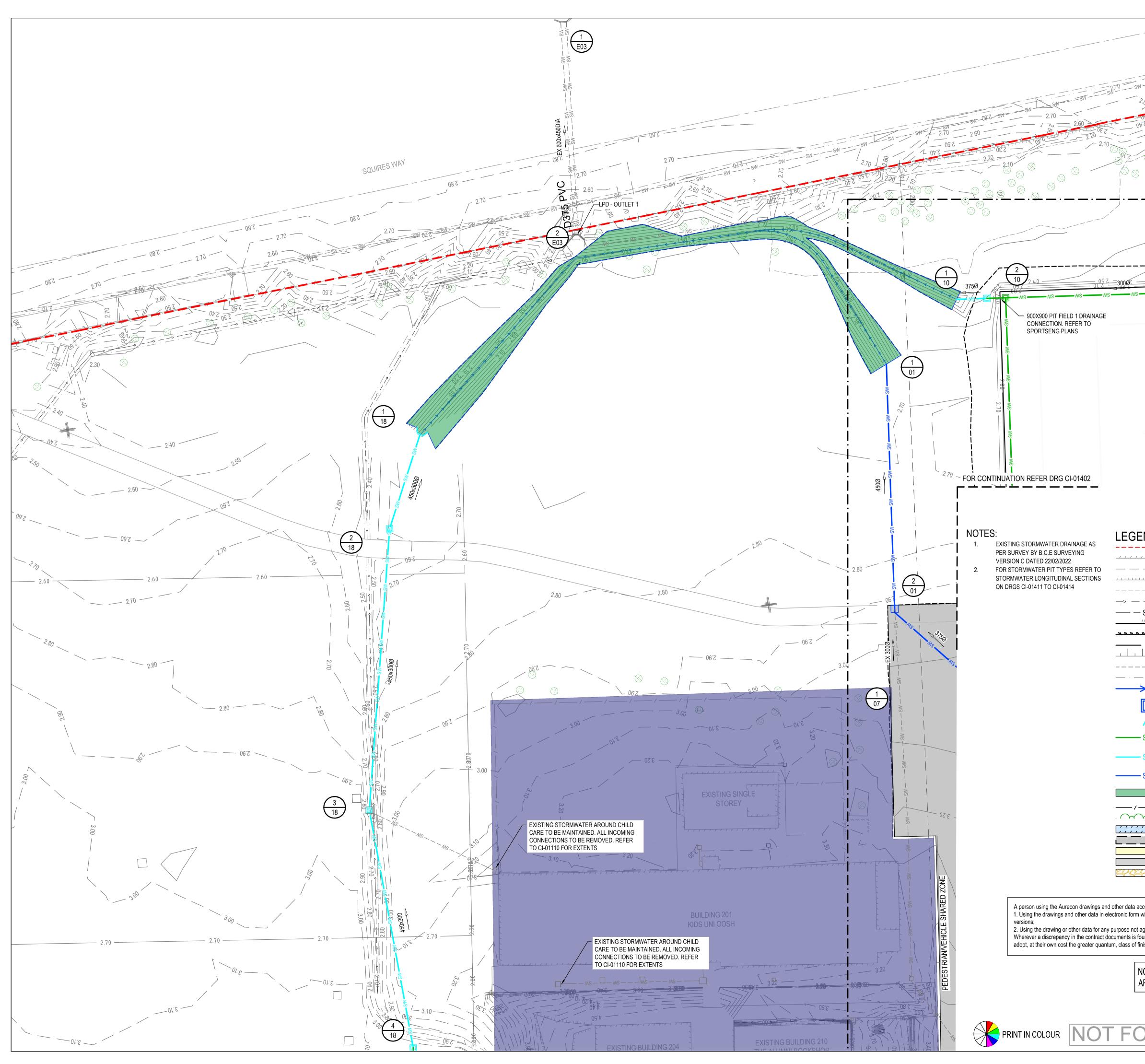
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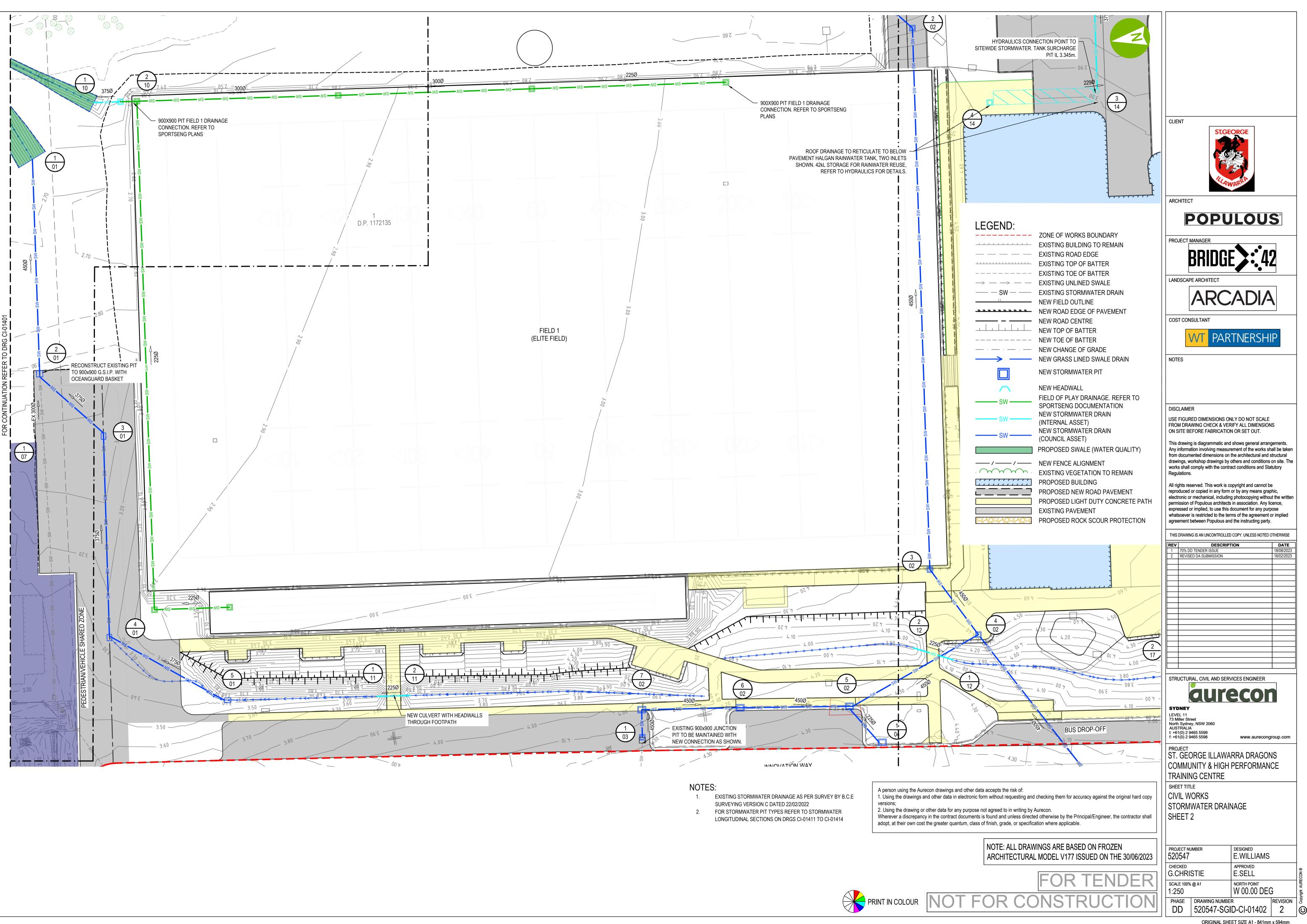
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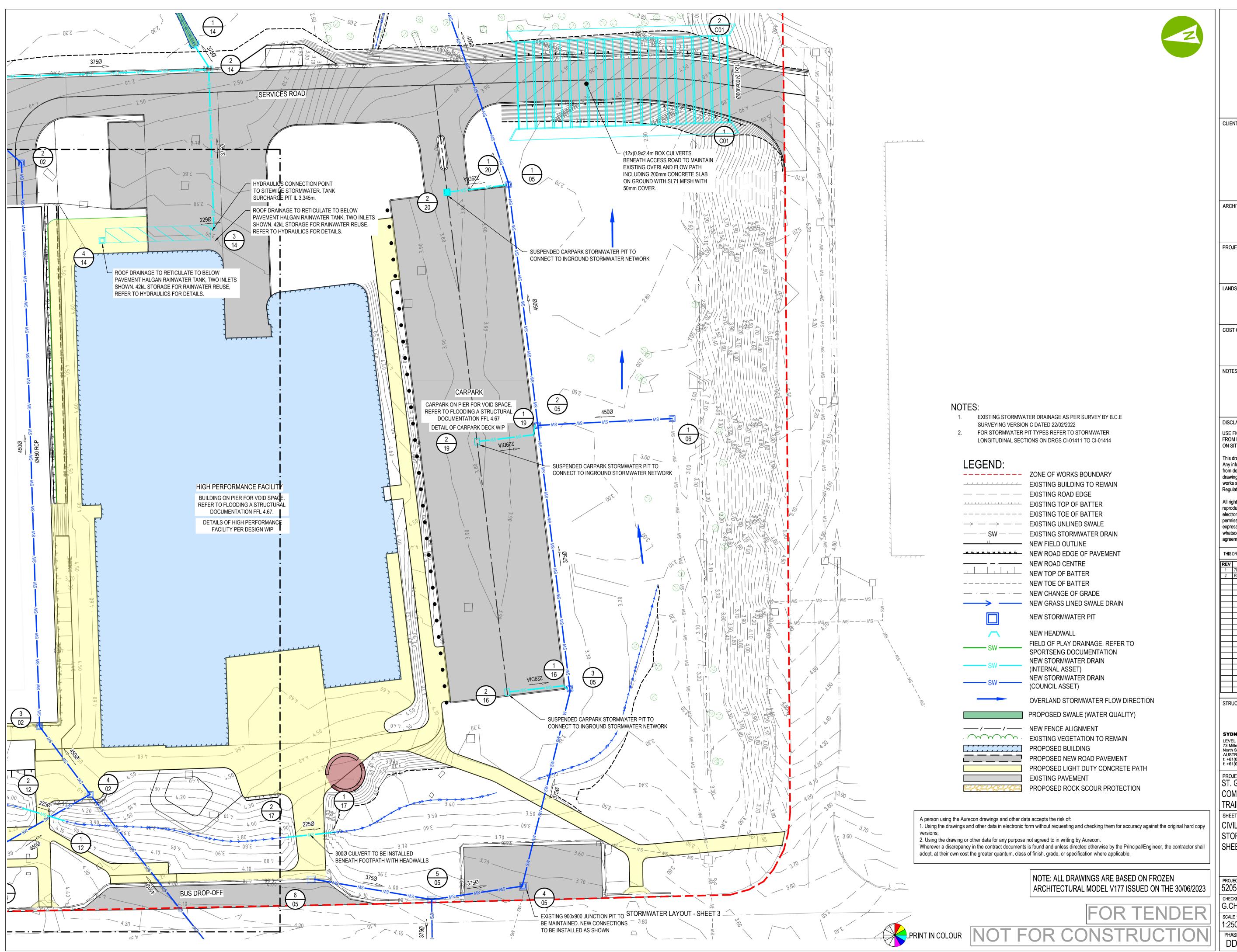
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END:		drawings, workshop drawings by others and conditions on site. The works shall comply with the contract conditions and Statutory
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·	EXISTING BUILDING TO REMAIN EXISTING ROAD EDGE	All rights reserved. This work is copyright and cannot be reproduced or copied in any form or by any means graphic,
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>	EXISTING UNLINED SWALE EXISTING STORMWATER DRAIN	
	NEW FIELD OUTLINE	THIS DRAWING IS AN UNCONTROLLED COPY. UNLESS NOTED OTHERWISE REV DESCRIPTION DATE
	NEW ROAD EDGE OF PAVEMENT	1 70% DD TENDER ISSUE 18/08/2023 2 REVISED DA SUBMISSION 16/02/2023
	NEW ROAD CENTRE NEW TOP OF BATTER	
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>	NEW GRASS LINED SWALE DRAIN	
	NEW STORMWATER PIT	
	NEW HEADWALL	
- SW ———	FIELD OF PLAY DRAINAGE. REFER TO	
	SPORTSENG DOCUMENTATION NEW STORMWATER DRAIN	
- SW ———	(INTERNAL ASSET)	
- SW	NEW STORMWATER DRAIN (COUNCIL ASSET)	STRUCTURAL, CIVIL AND SERVICES ENGINEER
	PROPOSED GRASS LINED SWALE (WATER QUALITY)	
/	NEW FENCE ALIGNMENT	aurecon
· · · · ·	EXISTING VEGETATION TO REMAIN	SYDNEY LEVEL 11 73 Miller Street
,,,,,,,	PROPOSED BUILDING	73 Miller Street North Sydney, NSW 2060 AUSTRALIA
	PROPOSED NEW ROAD PAVEMENT PROPOSED LIGHT DUTY CONCRETE PATH	t: +61(0) 2 9465 5599 f: +61(0) 2 9465 5598 www.aurecongroup.com
	EXISTING PAVEMENT	
	PROPOSED ROCK SCOUR PROTECTION	ST. GEORGE ILLAWARRA DRAGONS
		TRAINING CENTRE
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	and checking them for accuracy against the original hard copy	
agreed to in writing	g by Aurecon. irected otherwise by the Principal/Engineer, the contractor shall	STORMWATER DRAINAGE
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NEW ROAD EDGE OF PAVEMENT	THIS	S DRAWING IS AN UNCONTROL	LED COPY. UNLESS NOTE	D OTHERWISE
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NEW TOE OF BATTER				10/02/2020
NEW CHANGE OF GRADE				
NEW GRASS LINED SWALE DRAIN				
NEW STORMWATER PIT				
NEW HEADWALL				
FIELD OF PLAY DRAINAGE. REFER TO				
SPORTSENG DOCUMENTATION				
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(INTERNAL ASSET)				
NEW STORMWATER DRAIN				
(COUNCIL ASSET)				
OVERLAND STORMWATER FLOW DIRECTION	STF	RUCTURAL, CIVIL AND SI	ERVICES ENGINEER	
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PROPOSED NEW ROAD PAVEMENT	t: +6	STRÁLIA 61(0) 2 9465 5599		
PROPOSED LIGHT DUTY CONCRETE PATH	1: +6	61(0) 2 9465 5598	www.aurecor	ngroup.com
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ARCHITECTURAL MODEL V177 ISSUED ON THE 30/06/2023	520	0547	E.WILLIAMS	5
		CHRISTIE	APPROVED E.SELL	
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EXISTING STORMWATER DRAINAGE AS PER SURVEY BY B.C.E LONGITUDINAL SECTIONS ON DRGS CI-01411 TO CI-01414



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ARCHITECT

PROJECT MANAGER

LANDSCAPE ARCHITECT

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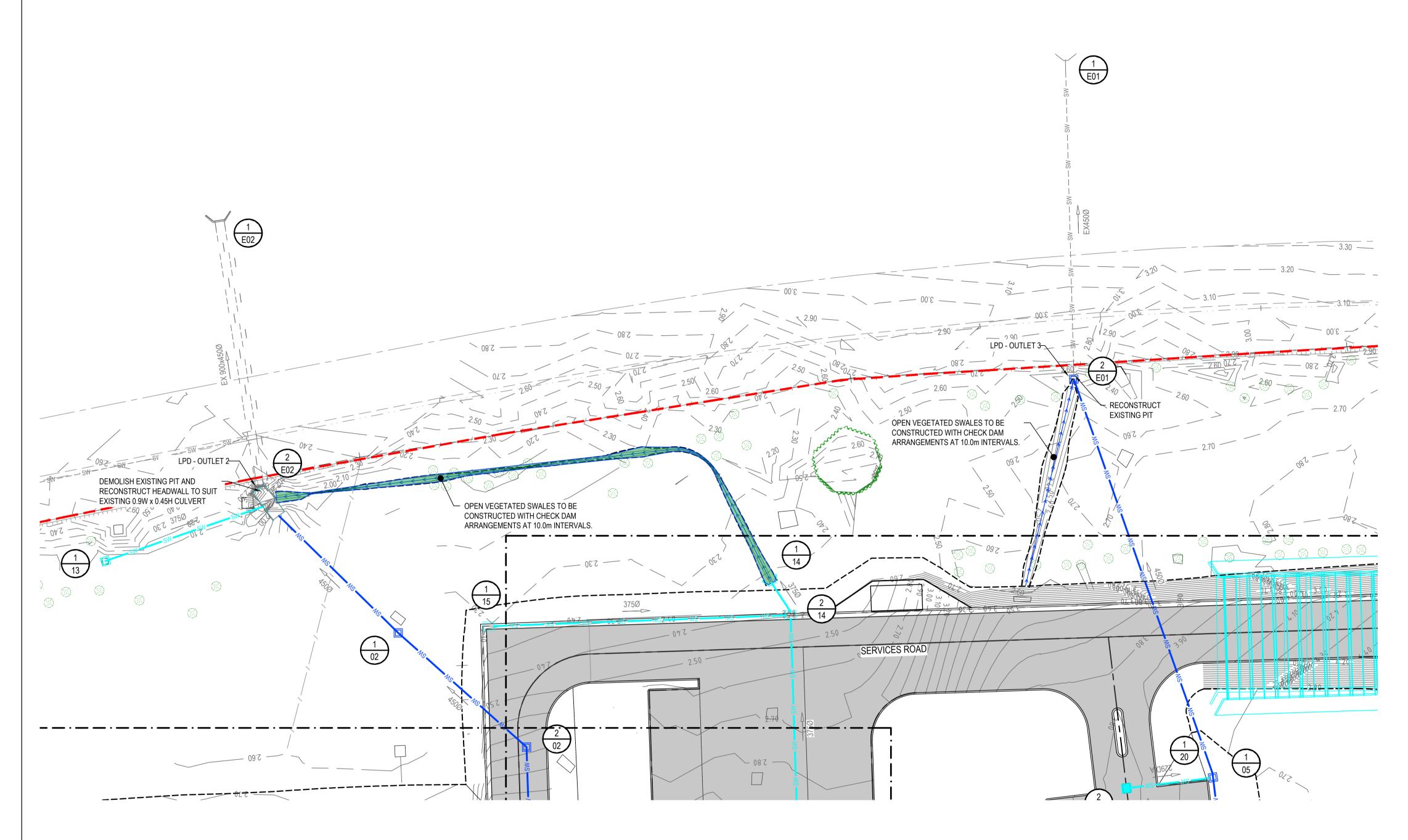
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NOTES:

LEGEND:

---- ZONE OF WORKS BOUNDARY EXISTING BUILDING TO REMAIN — — — — EXISTING ROAD EDGE EXISTING TOP OF BATTER ---- EXISTING TOE OF BATTER

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EXISTING PAVEMENT PROPOSED ROCK SCOUR PROTECTION

PROPOSED SWALE (WATER QUALITY) ——— / ——— / ——— NEW FENCE ALIGNMENT EXISTING VEGETATION TO REMAIN PROPOSED NEW ROAD PAVEMENT PROPOSED LIGHT DUTY CONCRETE PATH

SPORTSENG DOCUMENTATION NEW STORMWATER DRAIN (INTERNAL ASSET) NEW STORMWATER DRAIN (COUNCIL ASSET)

FIELD OF PLAY DRAINAGE. REFER TO

NEW STORMWATER PIT NEW HEADWALL

 \longrightarrow \longrightarrow \longrightarrow EXISTING UNLINED SWALE ----- NEW FIELD OUTLINE NEW ROAD EDGE OF PAVEMENT ------ NEW ROAD CENTRE _____ NEW TOP OF BATTER ----- NEW TOE OF BATTER ------ NEW CHANGE OF GRADE → NEW GRASS LINED SWALE DRAIN

1. EXISTING STORMWATER DRAINAGE AS PER SURVEY BY B.C.E SURVEYING VERSION C DATED 22/02/2022 2. FOR STORMWATER PIT TYPES REFER TO STORMWATER LONGITUDINAL SECTIONS ON DRGS CI-01411 TO CI-01414



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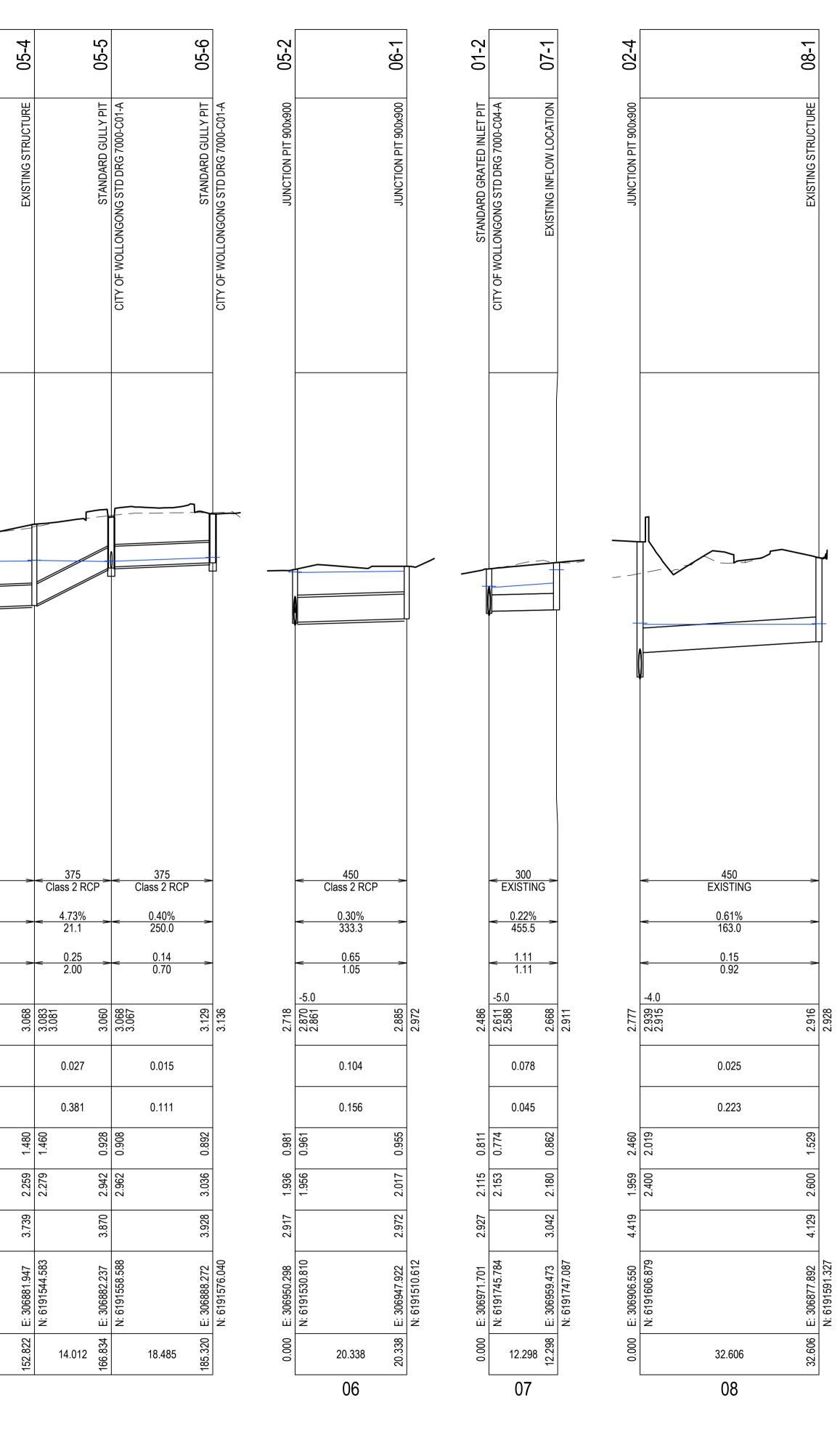
STRUCTURE NAME STRUCTURE DESCRIPTION	450Ø HEADWALL 01-1 ROCLA PRECAST OR SIMILAR EQUIVALENT 01-1	STANDARD GRATED INLET PIT 01-2 CITY OF WOLLONGONG STD DRG 7000-C04-A 01-3 CITY OF WOLLONGONG STD DRG 7000-C04-A 01-3 CITY OF WOLLONGONG STD DRG 7000-C04-A 01-3	STANDARD GRATED INLET PIT 01-4 CITY OF WOLLONGONG STD DRG 7000-C04-A 01-5 STANDARD GRATED INLET PIT 01-5 CITY OF WOLLONGONG STD DRG 7000-C04-A 01-5	EXISTING STRUCTURE E02-2 JUNCTION PIT 900x900 02-1	UNCTION PIT 900x300 02-2	JUNCTION PIT 900x900 02-3 JUNCTION PIT 900x900 02-4 02-4
PIPE SIZE (mm) PIPE TYPE (CLASS) PIPE GRADE (%) PIPE SLOPE (1 in X) FULL PIPE VELOCITY (m/s)	450 Class 2 RCP 0.30% 333.3 1.06 1.06	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Class 2 RCP Class 2 $ \begin{array}{c} 0.30\% \\ \hline 0.333.3 \\ \hline 1.12 \\ 1.12 \\ \hline 1.12 \\ 1$	$\frac{50}{2 \text{ RCP}} = \frac{450}{\text{Class } 2 \text{ RCP}}$ $\frac{30\%}{33.3} = \frac{0.30\%}{333.3}$ $\frac{.13}{.13} = \frac{1.17}{1.17}$	
PART FULL VELOCITY (m/s) DATUM RL H.G.L IN PIPE & W.S.E IN STRUCTURE	-5.0	2.6486 2.618 2.618 2.618 2.618 2.672 2.672 2.672 2.672	2.717 2.766 2.760 2.769 2.836	-1.12 0.08 5.003 5	2.101 2.2338 2.2338 2.101 2.101 2.101	2.598 2.777 2.939 2.915 2.915 2.915
PIPE FLOW (Cumecs)	0.168	0.080 0.066	0.041	0.178 0.1	180 0.185	0.186 0.1
PIPE CAPACITY AT GRADE (Cumecs)	0.156	0.111 0.111	0.111	0.156 0.1	156 0.156	0.156 0.1
DEPTH TO INVERT	0.612	0.811 0.791 0.833 0.813	0.910 0.890 0.914	0.860 0.840 0.843 0.823	1.076	2.550 2.530 2.440 2.440
INVERT LEVEL OF DRAIN	2.014	2.115 2.135 2.193 2.213	2.360	1.470 1.490 1.549 1.569	1.624	1.920 1.920 1.979
DESIGN SURFACE LEVEL	2.626	3.026	3.250	2.330	2.700	4.450
SETOUT COORDINATES	E: 307005.148 N: 6191741.281	E: 306971.701 N: 6191745.784 E: 306960.334 N: 6191737.506	E: 306928.907 N: 6191741.872 E: 306916.063 N: 6191725.159	E: 307032.938 N: 6191624.075 E: 307016.817 N: 6191612.725	E: 307002.445 N: 6191601.195	E: 306917.938 N: 6191612.703 E: 306906.550 N: 6191606.879 N: 6191606.879
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	STANDARD GULLY PIT	CITY OF WOLLONGONG STD DRG 7000-C01-A	STANDARD GULLY PIT	CITY OF WOLLONGONG STD DRG 7000-C01-A	STANDARD GULLY PIT	CITY OF WOLLONGONG STD DRG 7000-C01-A	CLIENT STGEORGE FORGEC UNITARY ARCHITECT POPULOUS®
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							DISCLAIMER USE FIGURED DIMENSIONS ONLY DO NOT SCALE FROM DRAWING CHECK & VERIFY ALL DIMENSIONS ON SITE BEFORE FABRICATION OR SET OUT. This drawing is diagrammatic and shows general arrangements. Any information involving measurement of the works shall be taken from documented dimensions on the architectural and structural drawings, workshop drawings by others and conditions on site. The works shall comply with the contract conditions and Statutory Regulations. All rights reserved. This work is copyright and cannot be reproduced or copied in any form or by any means graphic, electronic or mechanical, including photocopying without the written permission of Populous architects in association. Any licence, expressed or implied, to use this document for any purpose whatsoever is restricted to the terms of the agreement or implied
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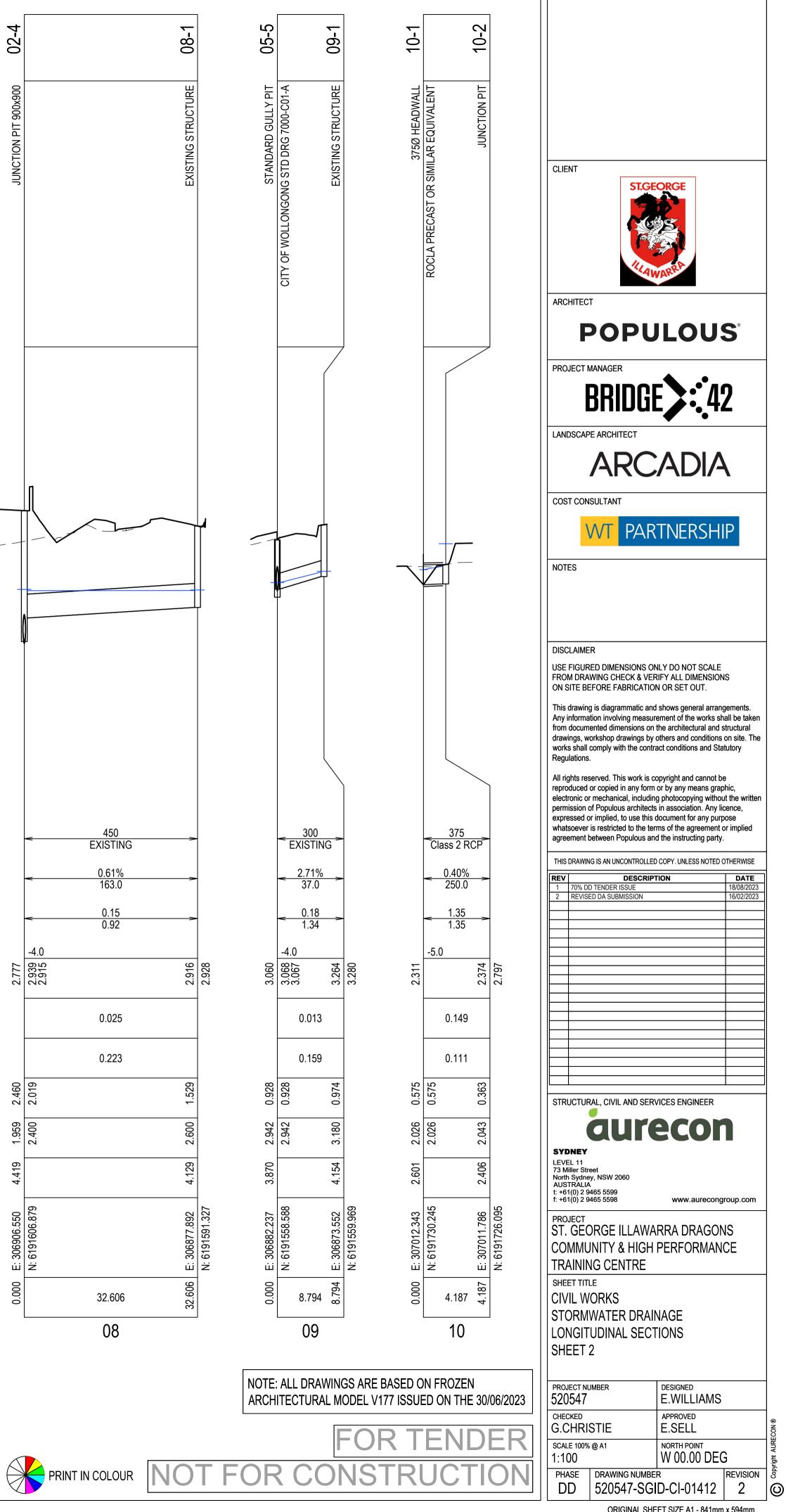


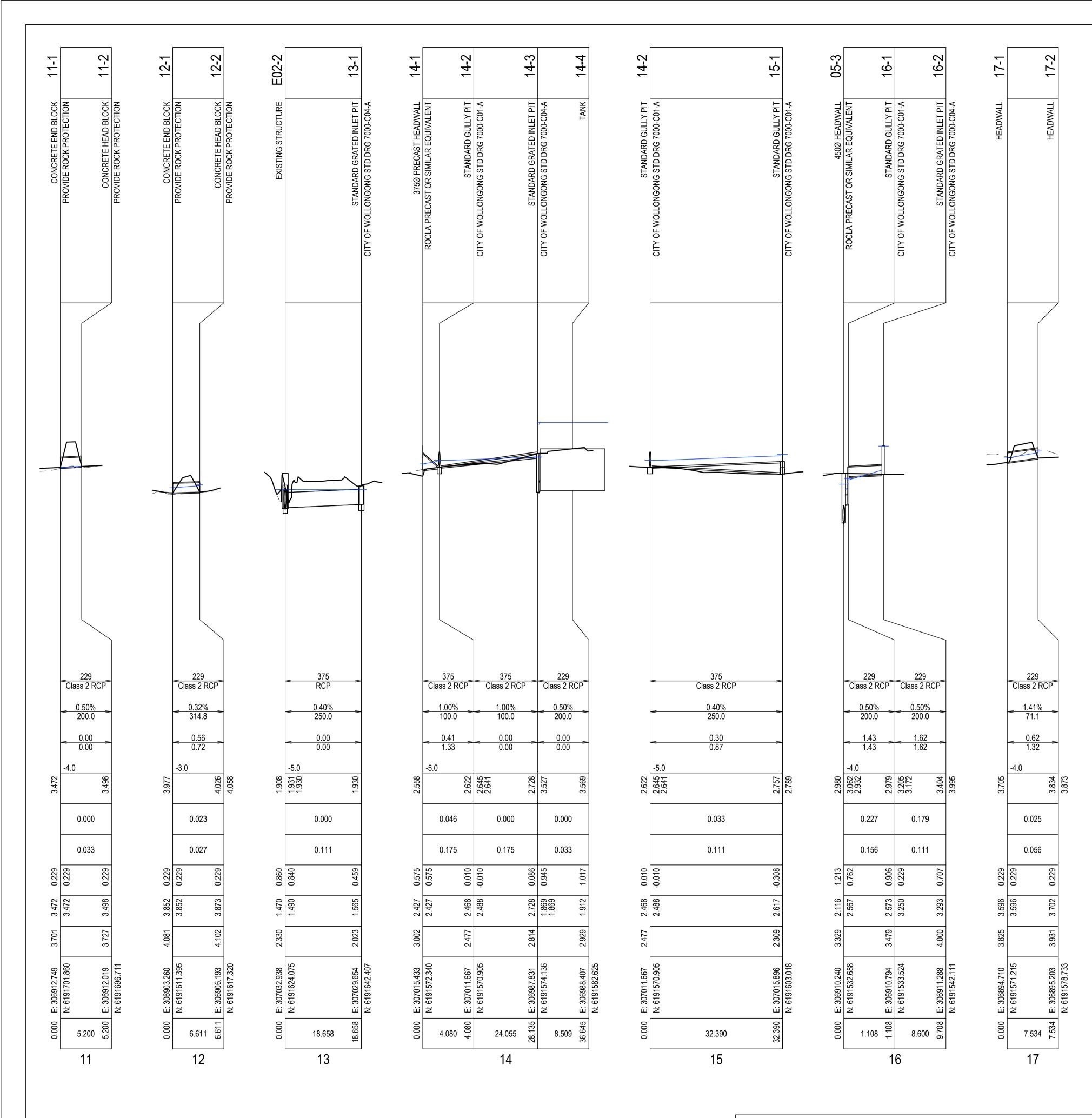
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