Our reference: SSDA 9138102 Contact: John Skaf Telephone: 4732 8085

23 September 2024

ESR Developments (Australia) Pty Ltd Level 24, 88 Philip Street SYDNEY NSW 2000

Attention: Alasdair Cameron

Dear Alasdair

EA24/0005 Section 138 Roads Act Approval for Works at Abbotts Road and Aldington Road, Kemps Creek

Please find enclosed Section 138 Roads Act Approval No. EA24/0005 for works at Abbotts Road and Aldington Road, Kemps Creek, together with a copy of the stamped approved plans.

Prior to the commencement of works, a pre-construction meeting is to be held between the applicant, the appointed contractor and Council. Please contact the person below to arrange a suitable time for the pre-construction meeting.

All works for the development are to be constructed in accordance with Penrith City Council's Engineering Construction Specification for Civil Works. During the construction, your appointed contractor is required to arrange inspections in accordance with this specification and as required by Council's Inspector.

Your contact person for inspections will be Brett Smith. Brett can be contacted on his mobile 0410 638 679. A minimum of 24 hours notice (one business day) must be given for all inspections.

You will need to keep one set of stamped plans plus the Roads Act Approval on-site at all times.

Yours sincerely

Penrith City Council PO Box 60, Penrith NSW 2751 Australia T 4732 7777 F 4732 7958 penrith.city

John Skaf

Senior Engineer - Major Developments

Penrith City Council



Our reference: SSD 9138102 Contact: John Skaf Telephone: 4732 8085

23 September 2024

ESR Developments (Australia) Pty Ltd Level 24, 88 Philip Street SYDNEY NSW 2000

Attention: Alasdair Cameron

Dear Alasdair

EA24/0005 Section 138 Roads Act Approval for Works at Abbotts Road an Aldington Road, Kemps Creek.

Under Section 138 of the Roads Act 1993, approval is granted for works in the road reserve of Abbotts Road and Aldington Road, Kemps Creek as required by Condition No. D.11 of SSD 9138102 and in accordance with the stamped approved plans by AT&L, project number 24-1177, listed in the following schedule:

Drawing No.	Revision	Date	Drawing Title
C1000	P2	02-09-2024	COVER SHEET
C1001	P2	02-09-2024	DRAWING LIST
C1002	P2	02-09-2024	GENERAL NOTES
C1010	P2	02-09-2024	GENERAL ARRANGEMENT & ALIGNMENT CONTROL PLAN
C1021	P2	02-09-2024	TYPICAL SECTION AND PAVEMENT DETAIL
C1101	P2	02-09-2024	ROADWORKS PLAN SHEET 1
C1102	P2	02-09-2024	ROADWORKS PLAN SHEET 2
C1103	P2	02-09-2024	ROADWORKS PLAN SHEET 3
C1104	Pl	02-09-2024	ROADWORKS PLAN SHEET 4
C1105	Pl	02-09-2024	ROADWORKS PLAN SHEET 5
C1301	P2	02-09-2024	SIGNAGE AND LINEMARKING PLAN SHEET 1
C1302	P2	02-09-2024	SIGNAGE AND LINEMARKING PLAN SHEET 2
C1303	P2	02-09-2024	SIGNAGE AND LINEMARKING PLAN SHEET 3

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C1304 P1 02-09-2024 SIGNAGE AND LINEMARKING PLAN SHEET 4				
C1305 P1 02-09-2024 SIGNAGE AND LINEMARKING PLAN SHEET 5	C1304	Pl	02-09-2024	
C1305				
C1501 P1 02-09-2024 STORMWATER CATCHMENT PLAN	C1305	P1	02-09-2024	
C1501				
C1701	C1501	P1	02-09-2024	
C1701				. =
C1702 P1 02-09-2024 ROAD CROSS SECTIONS ABBOTTS ROAD SHEET 2	C1701	P1	02-09-2024	North Charles
C1702				ABBOTTS ROAD SHEET 1
ABBOTTS ROAD SHEET 2 ROAD CROSS SECTIONS ALDINGTON ROAD SHEET 1	01700	DI	00 00 0004	ROAD CROSS SECTIONS
C1711	C1/02	PI	02-09-2024	ABBOTTS ROAD SHEET 2
C1751	C1711	Di	02 00 2024	ROAD CROSS SECTIONS
C1751 P1 02-09-2024 DRAINAGE CHANNEL SHEET 1 C1752 P1 02-09-2024 LONGITUDINAL SECTIONS DRAINAGE CHANNEL SHEET 2 C1801 P2 02-09-2024 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1 C1802 P2 02-09-2024 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2 C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	CI/II	PI 02-09		ALDINGTON ROAD SHEET 1
C1752 P1 O2-09-2024 C1801 P2 O2-09-2024 C1802 P2 O2-09-2024 C1803 P2 O2-09-2024 C1803 DRAINAGE CHANNEL SHEET 1 LONGITUDINAL SECTIONS DRAINAGE CHANNEL SHEET 2 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2 VEHICLE TURN PATH ALDINGTON RD & ABBOTTS RD	01751	DI	00 00 0004	LONGITUDINAL SECTIONS
C1752 P1 02-09-2024 DRAINAGE CHANNEL SHEET 2 C1801 P2 02-09-2024 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1 C1802 P2 02-09-2024 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2 VEHICLE TURN PATH C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	C1/51	PI	02-09-2024	DRAINAGE CHANNEL SHEET 1
C1801 P2 O2-09-2024 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2 VEHICLE TURN PATH C1803 P2 O2-09-2024 ALDINGTON RD & ABBOTTS RD	01750	D1	02-00-2024	LONGITUDINAL SECTIONS
C1801 P2 02-09-2024 RD CURVILINEAR SHEET 1 C1802 P2 02-09-2024 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2 VEHICLE TURN PATH C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	C1/52	PI	02-09-2024	DRAINAGE CHANNEL SHEET 2
C1802 P2 02-09-2024 RD CURVILINEAR SHEET 1 VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2 VEHICLE TURN PATH C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	C1001	DO	02 00 2024	VEHICLE TURN PATH ABBOTTS
C1802 P2 02-09-2024 RD CURVILINEAR SHEET 2 VEHICLE TURN PATH C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	Cloui	P2	02-09-2024	RD CURVILINEAR SHEET 1
RD CURVILINEAR SHEET 2 VEHICLE TURN PATH C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	C1000	D2	02.00.2024	VEHICLE TURN PATH ABBOTTS
C1803 P2 02-09-2024 ALDINGTON RD & ABBOTTS RD	C1802	P2 02-09-2024		RD CURVILINEAR SHEET 2
				VEHICLE TURN PATH
INTERSECTION SHEET 3	C1803	P2 02-09-2024 ALDINGTON RD &		ALDINGTON RD & ABBOTTS RD
I INTEROLOTION SHEET O				INTERSECTION SHEET 3

Supporting Documents:

- Progressive Erosion & Sediment Control Plans: Stage 1, prepared by Rubicon Enviro Pty Ltd.
- Traffic Guidance Scheme, prepared by Allroad Group Pty Ltd, TMP no. ARG 24-048 TMP, version 1, dated 23/08/2024
- Construction Traffic Management Report prepared by Asongroup, P2264r03, dated 30/08/2024
- Pavement Design Report prepared by ADE Consulting Group, A201021.1725.19_F, dated 19 September 2024

Approval is subject to the following conditions:

- 1. All works shall be undertaken in accordance with the approved plans, Penrith City Council's Engineering Construction Specification for Civil Works and at the direction of Penrith City Council.
- The applicant is to provide Penrith City Council with written notice of intention to commence works a minimum of two days before any construction activity on site.
- 3. The notice of commencement shall be accompanied by the following documentation:
 - a) Contractor's license and details of public liability insurance with a limit of not less than \$20,000,000.00 (twenty million dollars) indemnifying Penrith City Council from all claims arising from the execution of works.

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- 4. Prior to the commencement of works, a dilapidation report shall be undertaken over the full extent of works including road pavement, kerb and gutter, footpaths, street trees and private vehicular crossings. Any damage shall be rectified at the applicant's cost prior to the issue of Council's final signoff of the works.
- 5. The contractor is to notify all affected residents in writing two (2) days prior to the commencement of construction. Vehicular access to all properties is to be maintained throughout the construction. The contractor's contact details are to be included in the letter.
- 6. Inspections are to be undertaken in accordance with the requirements of Penrith City Council's Engineering Construction Specification for Civil Works and at the direction of Penrith City Council Officers.
- 7. A final inspection will not be undertaken until full Works-As-Executed plans and compliance documentation have been submitted to Penrith City Council for review.
- 8. A letter of completion for works under this approval will not be issued by Penrith City Council until all defects identified in the final inspection have been completed.
- 9. The Principal Certifier shall not issue an Occupation Certificate for the building works until a Compliance Certificate for works under this approval has been issued by Penrith City Council.
- 10. As the works under this approval (i.e. stage 1) are considered temporary until works progress to stage 2, the applicant is responsible to continually monitor the road condition and report to Council any identified failures. Upon Council's approval and at no cost to Council the applicant shall undertake all necessary repairs to ensure the road is restored to a safe condition.
- The lighting of any road works or pedestrian facility must be in accordance with AS1742 and AS1158.

For further information in respect of this approval, please contact John Skaf on 4732 8085.

Penrith City Council PO Box 60, Penrith NSW 2751 Australia T 4732 7777 F 4732 7958 penrith.city Yours sincerely

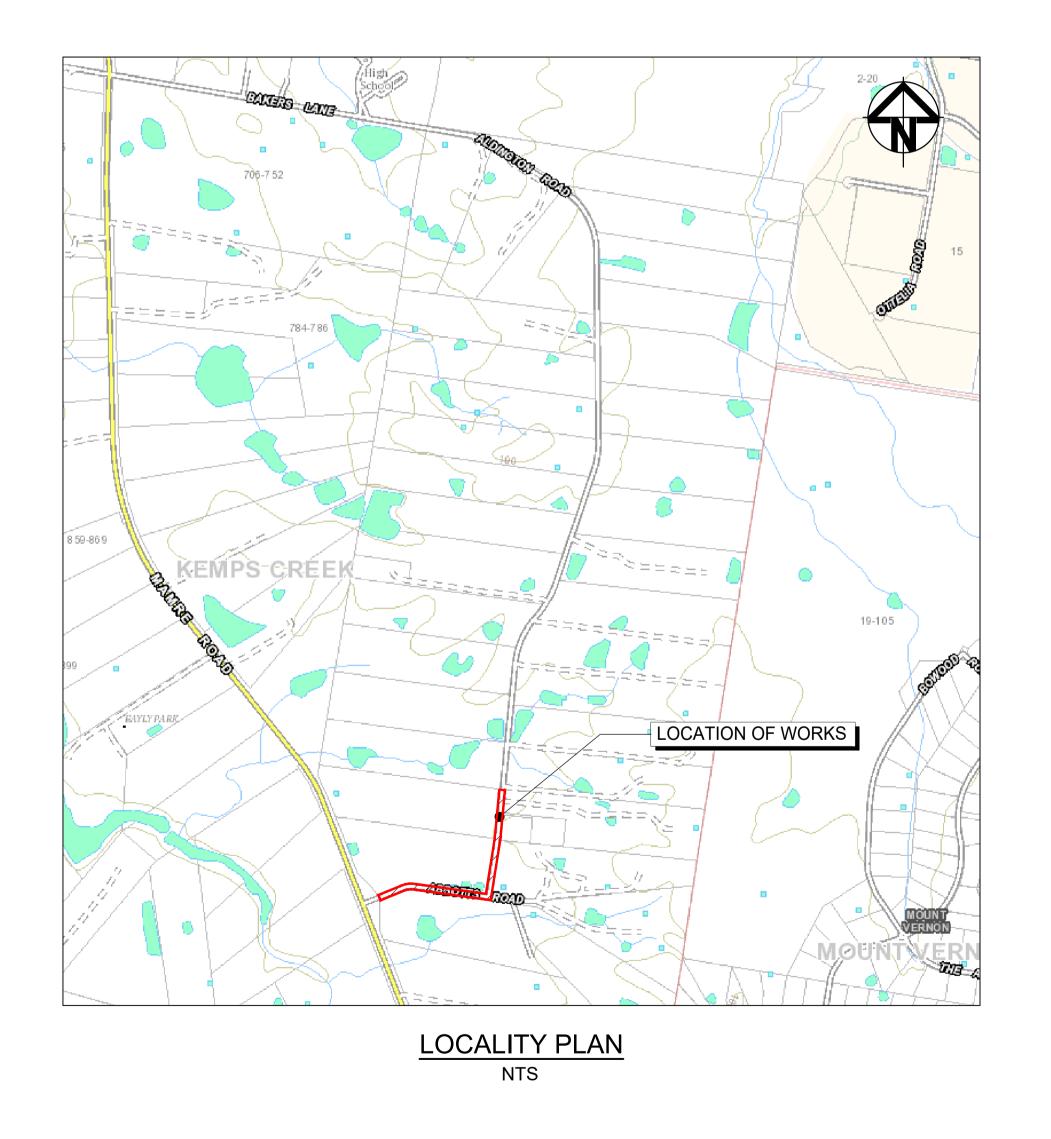
John Skaf

Senior Engineer – Major Developments Penrith City Council



ALDINGTON AND ABBOTTS ROAD UPGRADE (AARU) PHASE 1

1000-SERIES, TEMPORARY WORKS PACKAGE STAGE 1





FOR CONSTRUCTION

Date Plotted: 2 Sep 2024 - 11:13AM File Name: F:\24-1177 AARU ESR\6.0 Drgs\Civil\Final\1000_Series\24-1177-C1000.dwg

			Bar Scales	Client	Scales		Drawn	КВ	Project	Civil Engineers and Project Managers	
						N.T.S.	Designed	KB	AARU PHASE 1	Level 7, 153 Wal North Sydney NS	
					Grid	GDA2020	Checked	AL	STAGE 1	ABN 96 130 882 Tel: 02 9439 Fax: 02 9923	1777
				FSR	Height Datum	AHD	Approved	AAL	TEMPORARY WORKS	www.atl.net.au info@atl.net.au	
P2	ISSUED FOR REVIEW	02-09-24		LJK		G G	DA2020		COVER SHEET	Status ISSUED FOR REVIEW	A1
P1	ISSUED FOR REVIEW	04-07-24			THIS DRA	AWING CANNOT BE CO	OPIED OR REPRODU	CED IN ANY FORM		NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.	
Issue	Description	Date			OR USED	FOR ANY OTHER PUR ENDED WITHOUT THE	POSE OTHER THAN	THAT ORIGINALLY		24-1177-C1000	P2

DRAWING LIST	
24-1177-C1000	COVER SHEET
24-1177-C1001	DRAWING LIST
24-1177-C1002	GENERAL NOTES
24-1177-C1010	GENERAL ARRANGEMENT & ALIGNMENT CONTROL PLAN
TYPICAL SECTIONS	
24-1177-C1021	TYPICAL SECTION AND PAVEMENT DETAIL
SITEWORKS	
24-1177-C1101	ROADWORKS PLAN SHEET 1
24-1177-C1102	ROADWORKS PLAN SHEET 2
24-1177-C1103	ROADWORKS PLAN SHEET 3
24-1177-C1104	ROADWORKS PLAN SHEET 4
24-1177-C1105	ROADWORKS PLAN SHEET 5
SIGNAGE AND LINEMARKING	
24-1177-C1301	SIGNAGE AND LINEMARKING PLAN SHEET 1
24-1177-C1302	SIGNAGE AND LINEMARKING PLAN SHEET 2
24-1177-C1303	SIGNAGE AND LINEMARKING PLAN SHEET 3
24-1177-C1304	SIGNAGE AND LINEMARKING PLAN SHEET 4
24-1177-C1305	SIGNAGE AND LINEMARKING PLAN SHEET 5
CATCHMENT PLAN	
24-1177-C1501	STORMWATER CATCHMENT PLAN
ROAD CROSS SECTIONS	
24-1177-C1701	ROAD CROSS SECTIONS ABBOTTS ROAD SHEET 1
24-1177-C1702	ROAD CROSS SECTIONS ABBOTTS ROAD SHEET 2
24-1177-C1711	ROAD CROSS SECTIONS ALDINGTON ROAD SHEET 1
LONGITUDINAL SECTIONS	
24-1177-C1751	LONGITUDINAL SECTIONS DRAINAGE CHANNEL SHEET 1
24-1177-C1752	LONGITUDINAL SECTIONS DRAINAGE CHANNEL SHEET 2
VEHICLE TURN PATH PLANS	
24-1177-C1801	VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 1
24-1177-C1802	VEHICLE TURN PATH ABBOTTS RD CURVILINEAR SHEET 2
24-1177-C1803	VEHICLE TURN PATH ALDINGTON RD & ABBOTTS RD INTERSECTION SHEET 3



FOR CONSTRUCTION

P2	ISSUED FOR REVIEW	02-09-24	
P1	ISSUED FOR REVIEW	04-07-24	
Issue	Description	Date	

100mm on Original



Client

Bar Scales

Scales	N.T.S.	Drawn KB		Proje	
	IN. I . S.	Designed	КВ		
Grid	GDA2020	Checked	AL		
Height Datum	AHD	Approved	AAL		
				Title	

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY

INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

AARU PHASE 1 STAGE 1 TEMPORARY WORKS **GDA2020**

DRAWING LIST

Civil Engineers and Proje	ct Managers
at&	Level 7, 153 North Sydne ABN 96 130 Tel: 02 94 Fax: 02 99 www.atl.net.

vel 7, 153 Walker Street orth Sydney NSW 2060 BN 96 130 882 405 el: 02 9439 1777 ix: 02 9923 1055 w.atl.net.au info@atl.net.au

Status ISSUED FOR REVIEW A1 Project - Drawing No. 24-1177-C1001

Date Plotted: 2 Sep 2024 - 11:13AM File Name: F:\24-1177 AARU ESR\6.0 Drgs\Civil\Final\1000_Series\24-1177-C1001.dwg

CIVIL WORKS GENERAL NOTES

GENERAL NOTES

- LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D).
- 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTES OTHERWISE. ALL LEVELS, METREAGES, STATIONS AND CO-ORDINATES ARE EXPRESSED IN METRES.
- SERVICES ARE INDICATIVE ONLY. THE CONTRACTOR IS TO CONFIRM LOCATIONS OF ALL SERVICES PRIOR TO COMMENCING WORK, THE CONTRACTOR TO ENSURE ADOPTED. METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ALL SERVICES.
- ACCESS TO PROPERTIES TO BE MADE AVAILABLE BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LANDPARTNERS, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

POINT OF ORIGIN: PM33562

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

IMPORTANT NOTE:

TREE SIZES ARE ESTIMATES ONLY.

ONLY VISIBLE SERVICES HAVE BEEN LOCATED IN THIS SURVEY. SERVICE AND UTILITIES SHOWN ON PLAN HAVE BEEN LOCATED BY PHYSICAL EVIDENCE ON SITE ONLY AND MAY NOT HAVE BEEN OPENED TO VERIFY THE TYPE OF UTILITY. NEITHER EXCAVATION NOR POTHOLING HAVE BEEN CARRIED OUT TO CONFIRM UNDERGROUND LOCATION. SERVICE DETAILS SHOULD BE CONFIRMED WITH THE RELEVANT SERVICE AUTHORITY DURING DESIGN AND PRIOR TO ANY CONSTRUCTION.

ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ANY CONSTRUCTION. THE POSITION OF SURVEYED DATA HAS BEEN LOCATED AND IS SHOWN TO TOPOGRAPHIC ACCURACIES. IF CLEARANCES TO BOUNDARIES OR OTHER FEATURES ARE CRITICAL AND DIMENSIONS ARE NOT SHOWN FURTHER SURVEY MAY BE REQUIRED.

THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD SURVEY.

ANY CONSTRUCTION ON OR NEAR BOUNDARIES WILL REQUIRE FURTHER SURVEY IN ORDER THAT MARKS DEFINING BOUNDARIES CAN BE PLACED.

EXISTING UNDERGROUND SERVICES

- THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
- AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
- CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY

COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE

- PRIOR TO COMMENCEMENT OF EXCAVATION WORKS. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS. CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE

DEWATERING

ISSUED FOR REVIEW ISSUED FOR REVIEW

EXISTING SERVICES.

KEPT ON SITE AT ALL TIMES.

ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

DECOMMISSIONING / DEMOLITION

EXISTING FENCING, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.

NOTE

THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION SPECIFICATION FOR THE THE RELEVANT AUTHORITY.

WHERE A DISCREPANCY EXISTS BETWEEN THESE NOTES AND THOSE WITHIN AN AUTHORITY SPECIFICATION, THE AUTHORITY SPECIFICATION MUST BE

KERBING NOTES

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS
- BROOM FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- 6. IN THE REPLACEMENT OF KERB AND GUTTER:-EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.
- EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
- 8. EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

EMBANKMENT CONSTRUCTION

SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.

2. CONSTRUCT EMBANKMENT IN PRESENCE OF YOUR QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK. GEOTECHNICAL ENGINEER TO PROVIDE CERTIFICATION EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH DOCUMENTATION.

3. IN THE CASE WHERE THE EMBANKMENT MATERIAL IN UNSUITABLE, THE CONTRACTOR WILL SOURCE SUITABLE MATERIAL FOR EMBANKMENTS AND PROVIDE GEOTECHNICAL CERTIFICATION.

4. COMPACT CLAY STABILISED WITH HYDRATED LIME (3% BY DRY MASS. MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYER OF 300mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.

5. CONSTRUCT BODY OF EMBANKMENT WITH STABILISED CLAYEY MATERIAL WON FROM SITE WITH HYDRATED LIME (3% BY DRY MASS MINIMUM) OR IMPORT STABILISED MATERIAL OF THE SAME STANDARD. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYER OF 300mm THICKNESS TO A DRY DENSI EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, REPAIR AS DIRECTED BY YOUR QUALIFIED AND EXPERIENCED GEOTECHNICA

6. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.

7. PLACE ROCK RIP-RAP AS SHOWN.

8. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.

9. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.

10. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

Bar Scales

CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- CONCRETE QUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK. REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa	SPECIFIED	NOMINAL
	AT 28 DAYS	SLUMP	AGG. SIZE
VEHICULAR BASE KERBS, PATHS, AND PITS	32 25	60 80	20 20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL FDGES UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS. COMPLETELY FILLING THE FORMWORK. THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION
- REINFORCEMENT SYMBOLS: N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302 SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP THE BAR GRADE AND TYPE 17 N 20 250

NOMINAL BAR SIZE IN mm | LSPACING IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304.

FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

__LAP TWO WIRES

STORMWATER DRAINAGE NOTES

STORMWATER DESIGN CRITERIA (A) AVERAGE EXCEEDANCE PROBABILITY: MAJOR STORM (OVERLAND FLOW) MINOR STORM (PIPED NETWORK)

- 2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- 3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- 4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED. SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.
- 5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- 6. PIPES TO BE INSTALLED TO TYPE HS3 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2
- 8. PRECAST PITS MAY BE USED SUBJECT TO APPROVAL BY AT & L.
- 9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA. 10. WHERE SUBSURFACE DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR
- PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED. 11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
- 13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 14. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
- 15. PROVIDE ANTI GRAFFITI PAINT TO FACE OF HEADWALLS.

EROSION AND SEDIMENT CONTROL

NOTES

GENERAL INSTRUCTIONS

THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A SUITABLY QUALIFIED EROSION AND SEDIMENT CONSULTANT FOR THE DURATION OF THE CONTRACT WITH THE EXPERTISE IN DESIGNING AND DOCUMENTING THE CONTROLS TO ALLOW THE INSTALLATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROLS. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR REQUIRED TO SUIT THE CONSTRUCTION STAGING

- 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH . THE OFFICE OF ENVIRONMENT AND HERITAGE'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION. LANDCOM, (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK"). VOLUME 1 AND VOLUME 2. LOCAL AUTHORITY REQUIREMENTS
- c. EPA REQUIREMENTS 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED. PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS. 5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL

AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE

EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN / INSTALLED AS DIRECTED BY THE CONTRACTORS EROSION AND SEDIMENT CONTROL CONSULTANT.

EROSION CONTROL

- 7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER
- 8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

- 9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS. SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT
- 0. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- 1. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

Client

- 13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY: (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR
- MATERIALS INSTALLED OUTSIDE THE DRIP LINE (B) ENSURING THAT NOTHING IS NAILED TO THEM
- (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
- (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
- (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
- (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

CONTINUED ABOV

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, THROUGHOUT THE FULL TERM OF THE CONTRACT, WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING. INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS REQUIRED TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND THEIR EROSION ND SEDIMENT CONSULTANT AND PROVIDED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, PENRITH CITY COUNCIL'S SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGE'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION. LANDCOM, (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK"). VOLUME 1 AND **VOLUME 2. EPA REQUIREMENTS**

EARTHWORKS NOTES

- WHERE EARTHWORKS ARE TO BE CONSTRUCTED ON OR AGAINST ANY EMBANKMENTS OR AGAINST ANY SLOPES AND THE EMBANKMENT/SLOPE IS STEEPER THAN 10(H):1(V) IN ANY DIRECTION, THE CONTRACTOR SHALL CUT TERRACES INTO THE SLOPE TO A MINIMUM DEPTH OF 300mm, EXCEPT WHERE SLOPES ARE STEEPER THAN 4(H):1(V) WHERE, MINIMUM DEPTH SHALL BE 600mm, TO ALLOW ADEQUATE KEY AND COMPACTION OF MATERIAL.
- THE CONTRACTOR SHALL PRODUCE A MATERIAL TRACKING REGISTER FOR ALL IMPORT AND EXPORT MATERIAL INCLUDING DEMOLITION WASTE. FOR INSTANCES WHERE CONTAMINATED MATERIAL IS EXPORTED FROM THE SITE, THE CONTRACTOR SHALL ENSURE A CHAIN OF CUSTODY REPORT AND CERTIFICATES ARE PROVIDED FOR THE CONTAMINATED MATERIAL.

STANDARDS AND SPECIFICATIONS:

QUALITY ASSURANCE

R71 UNBOUND PAVEMENT R73 HEAVILY BOUND PAVEMENT R82 LEAN MIX CONCRETE R83 CONCRETE PAVEMENT R106 SPRAYED BITUMINOUS SURFACING DENSELY GRADED ASPHALT R142 RAISED PAVEMENT MARKERS R143 SIGNPOSTING

STANDARD DRAWINGS

GULLY PIT TYPE SE GULLY PIT FOR TYPE SL KERB R0220-20 R0210-15 CONCRETE HEADWALLS SINGLE CELL R0300-01 STANDARD KERB AND CHANNEL SHAPES

COUNCIL

SD2002

SD2004

QUALITY ASSURANCE

ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS - PENRITH CITY COUNIL

STANDARD DRAWINGS

SD-RD05 KERB PROFILES SD-RD06 KERB RAMPS SD-RD09 HEAVY DUTY VEHICULAR CROSSINGS SD1001 STANDARD FOOTPATH DETAILS SD1004 TYPICAL VEHICULAR CROSSOVER SD2001/1 KERB INELT PIT SHEET 1 OF 3 SD2001/2 KERB INLET PIT SHEET 2 F 3 SD2001/3 KERB INLET PIT SHEET 3 OF 3

STANDARD GRATED SURFACE INLET PITS

SUBSOIL DRAIN TYPICAL SECTION

CONSTRUCTION TOLERANCES

ALL WORKS

VERGE

WALL

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL WORKS SPECIFICATION, INCLUDING CONSTRUCTION TOLERANCES

BULK EARTHWORKS EARTHWORKS -10mm / +20mm OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)

TURF OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC) **MULCH** OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING -10mm / +0mm

MATERIAL (FOOTPATHS, KERBS, ETC)

RETAINING / WALLS -20mm / +20mm INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (BLOCK WALL)

INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (PANEL WALL) FLATNESS OF THE FACE OF THE WALL MUST BE SUCH THAT THE MAXIMUM DEVIATION FROM A 4.5 M STRAIGHT EDGE

> PENRITH CITY COUNCIL This plan / document relates to Development Consent: SSD-9138102 EA24/0005 S138 Roads Act: Subject to the conditions outlined in the consent



SERVICE AUTHORITY PLANS PRIOR TO

North Sydney NSW 2060 ABN 96 130 882 405

Tel: 02 9439 1777

COMMENCEMENT OF WORK



Civil Engineers and Project Managers Project KB N.T.S. Designed **AARU PHASE 1** KB Checked GDA2020 AL

AAL

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STAGE 1 **TEMPORARY WORKS**

GENERAL NOTES

Fax: 02 9923 1055 www.atl.net.au ISSUED FOR REVIEW

Project - Drawing No. 24-1177-C1002

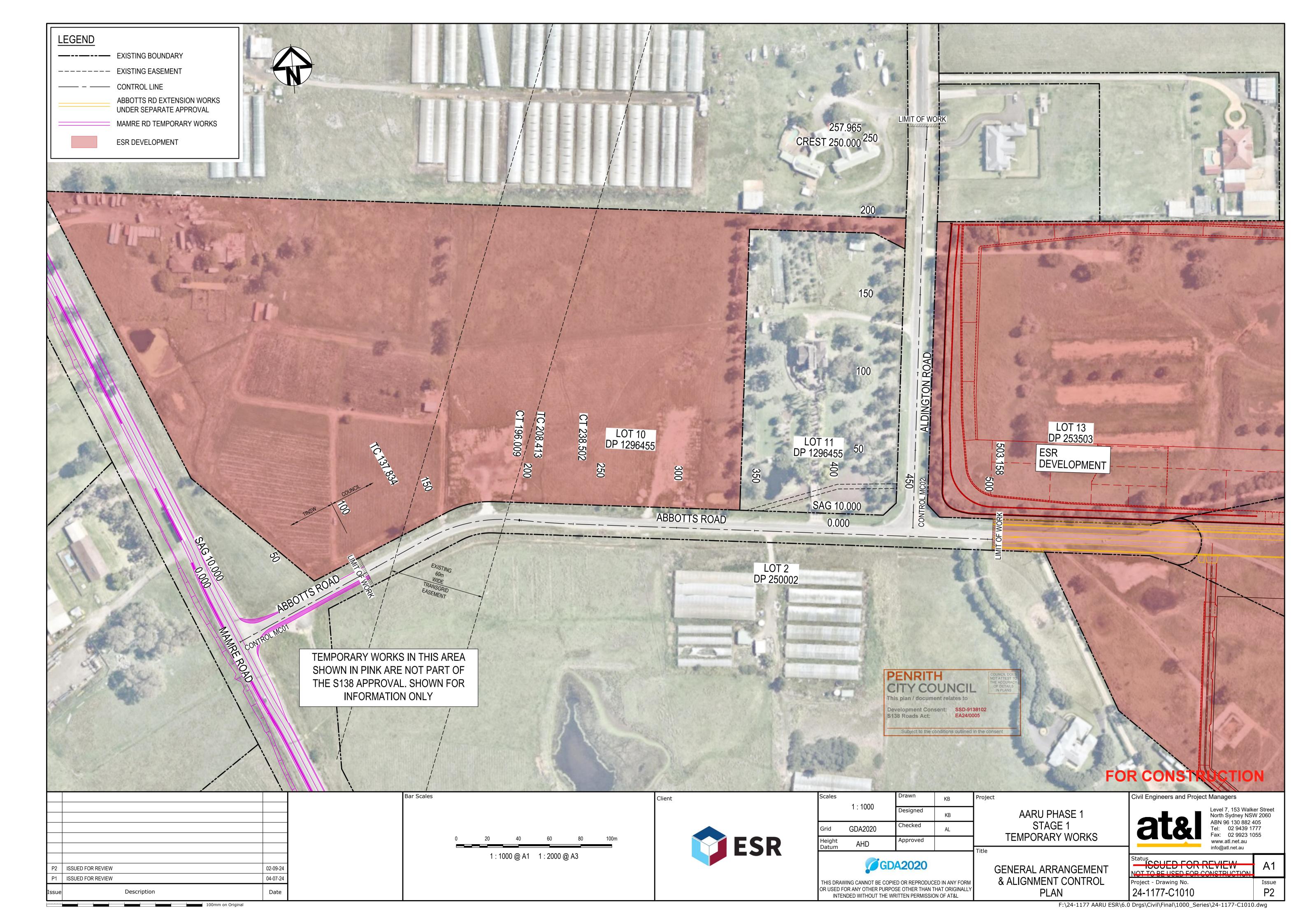
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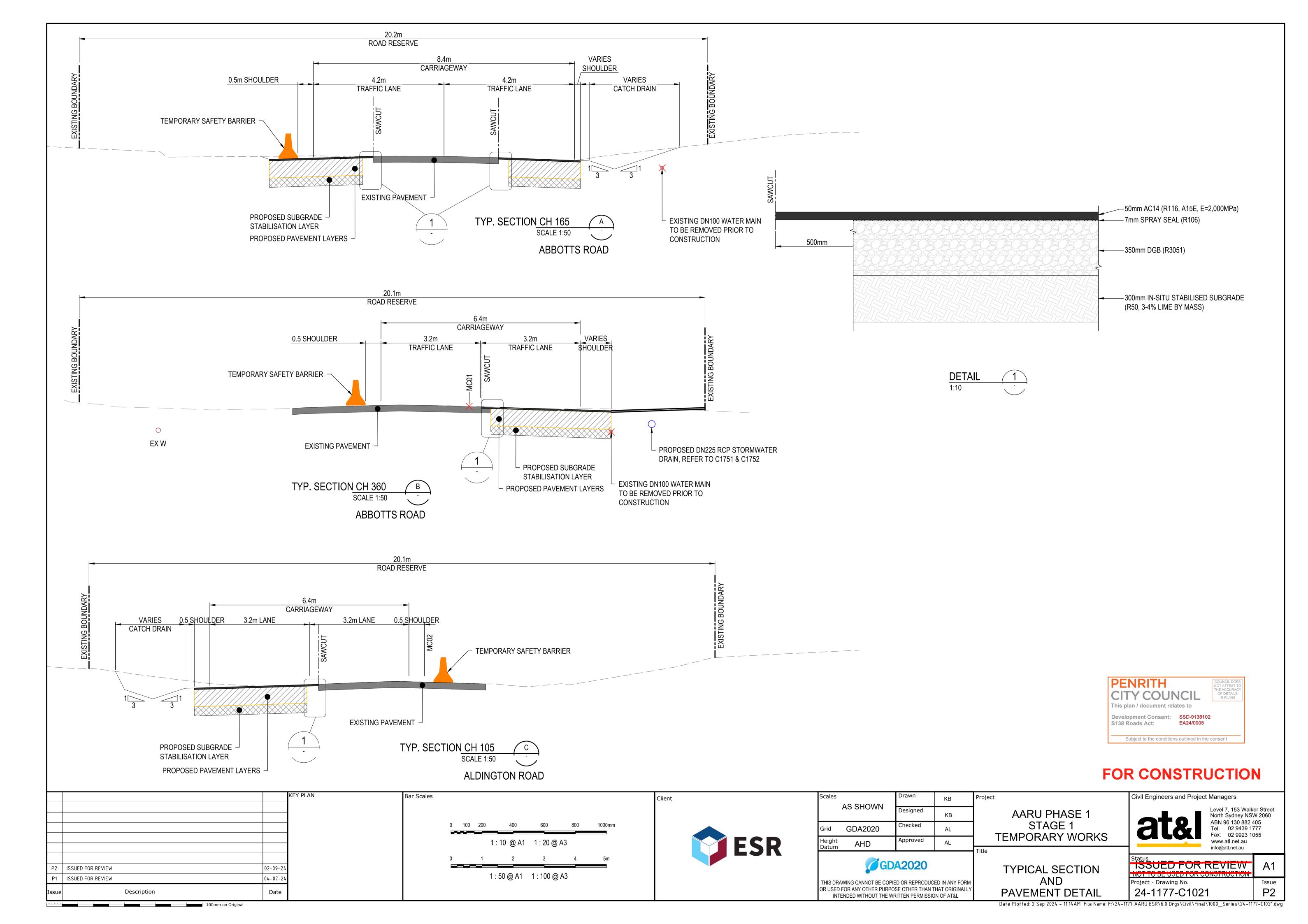
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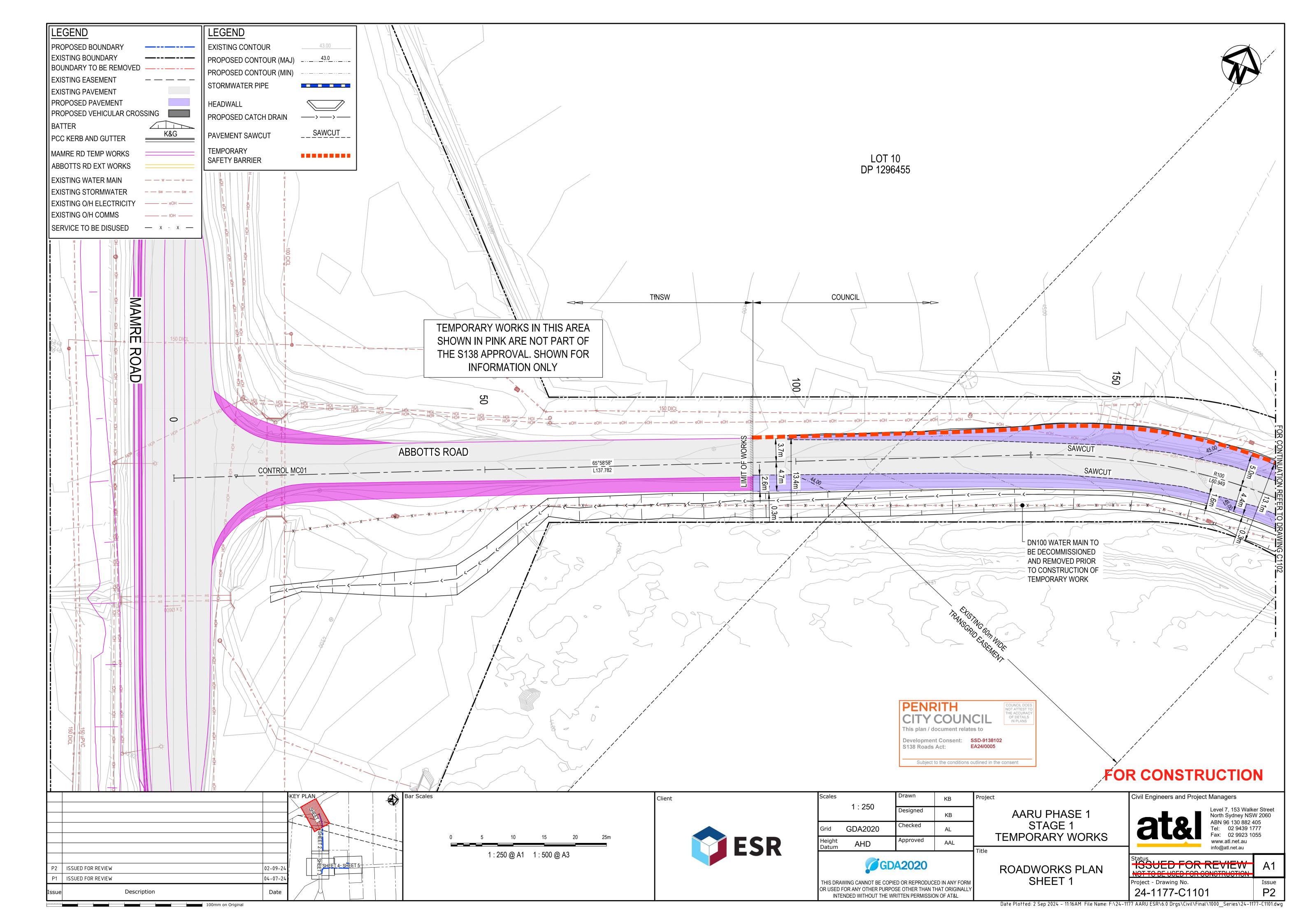
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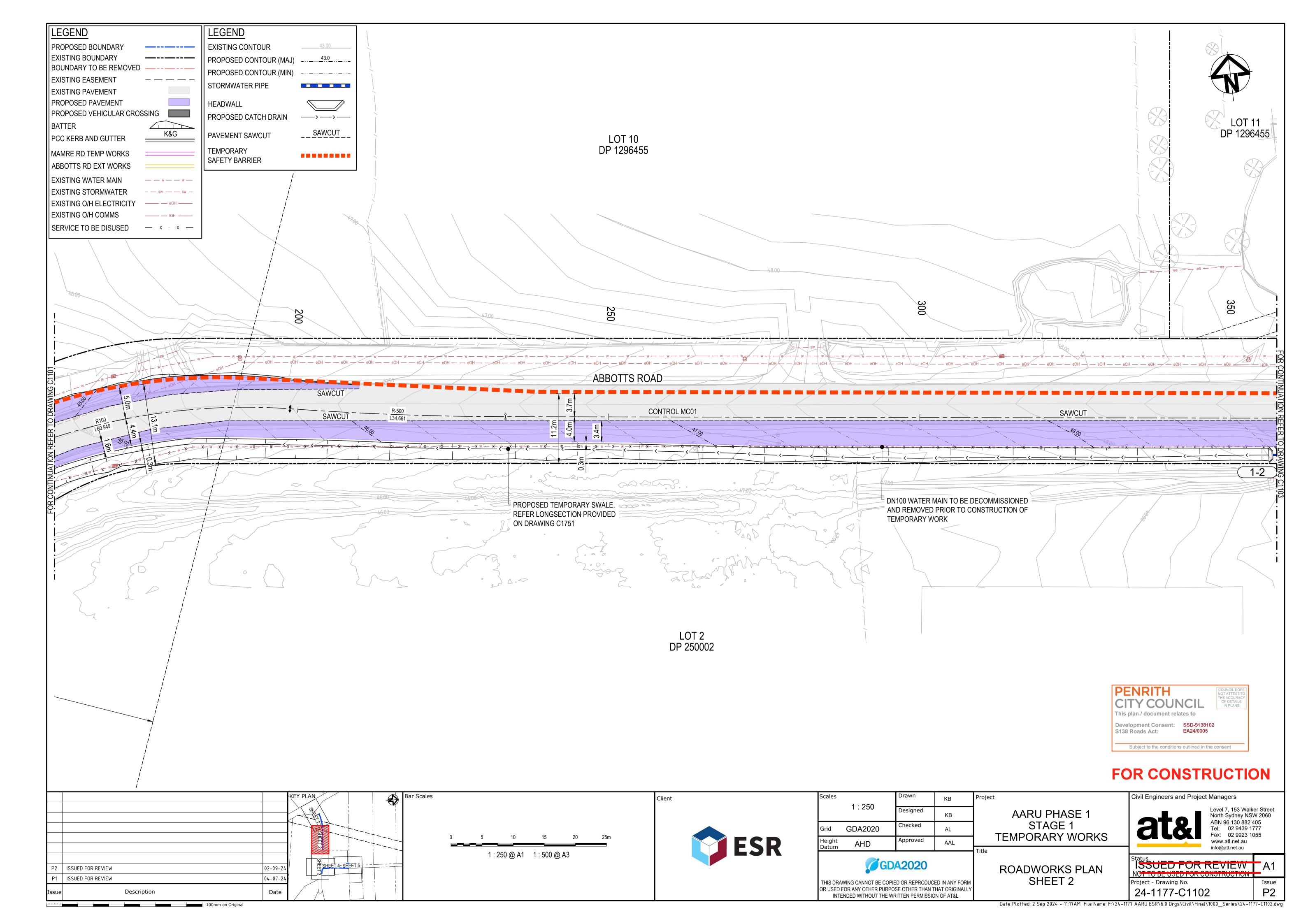
OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

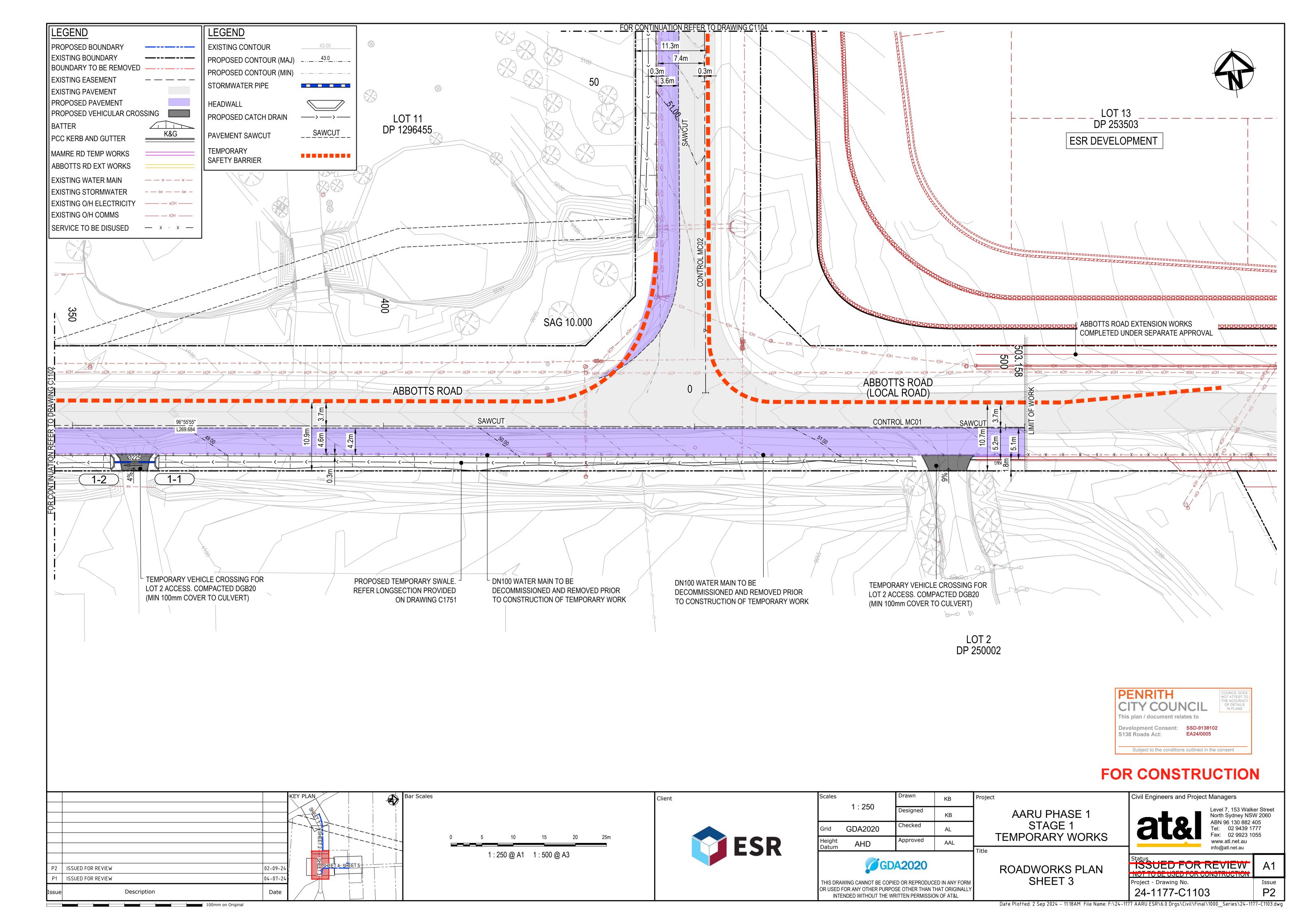
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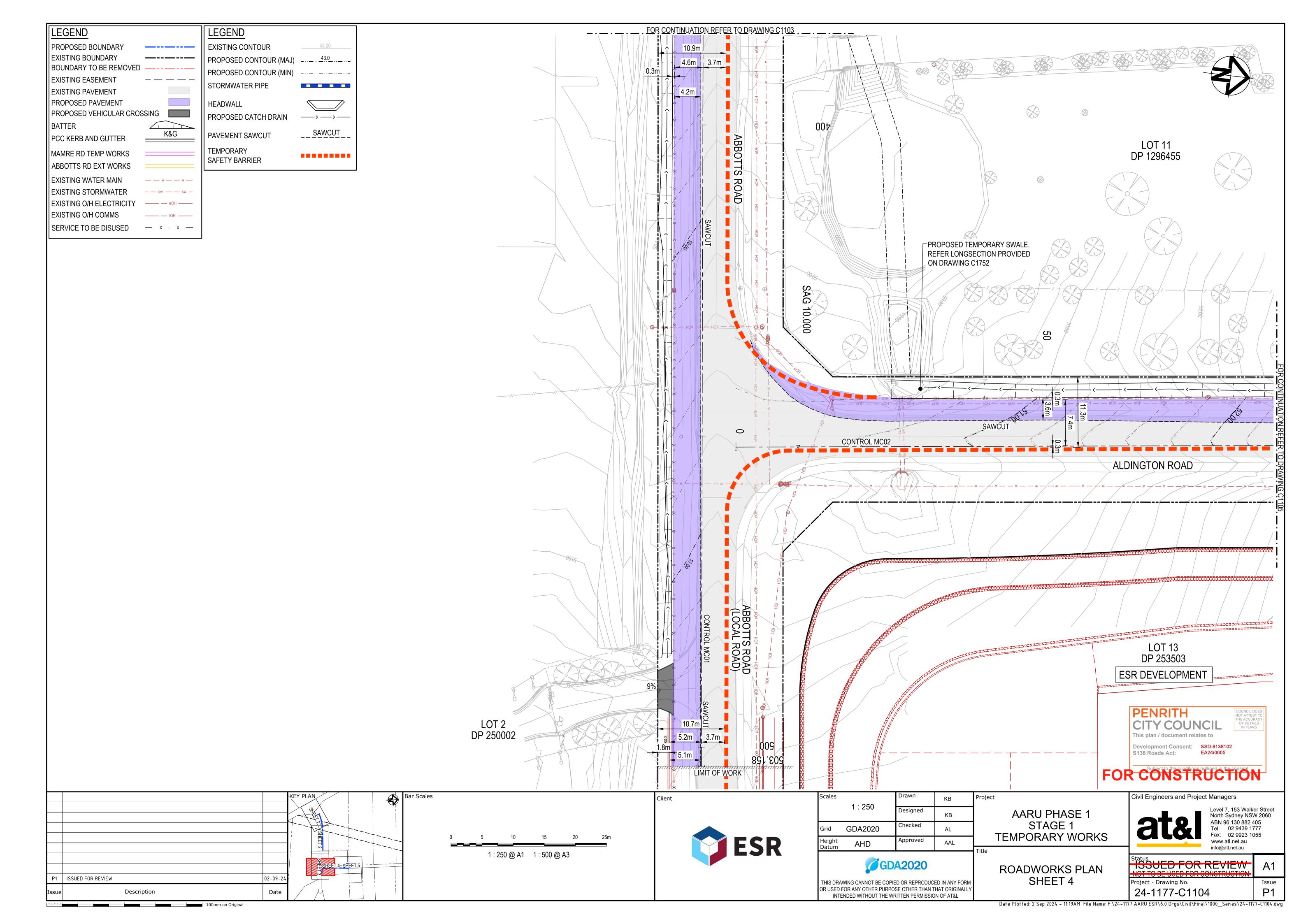


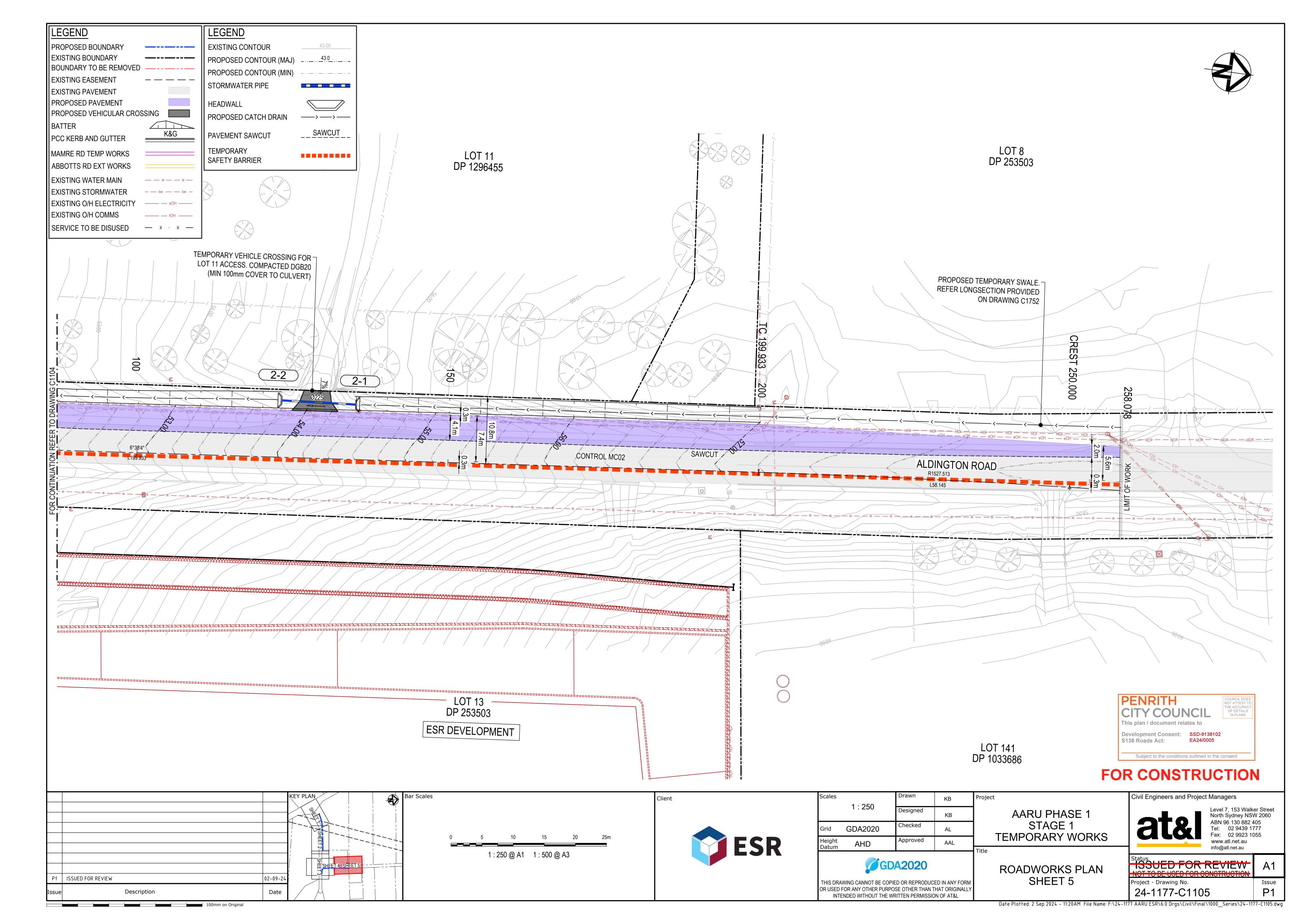


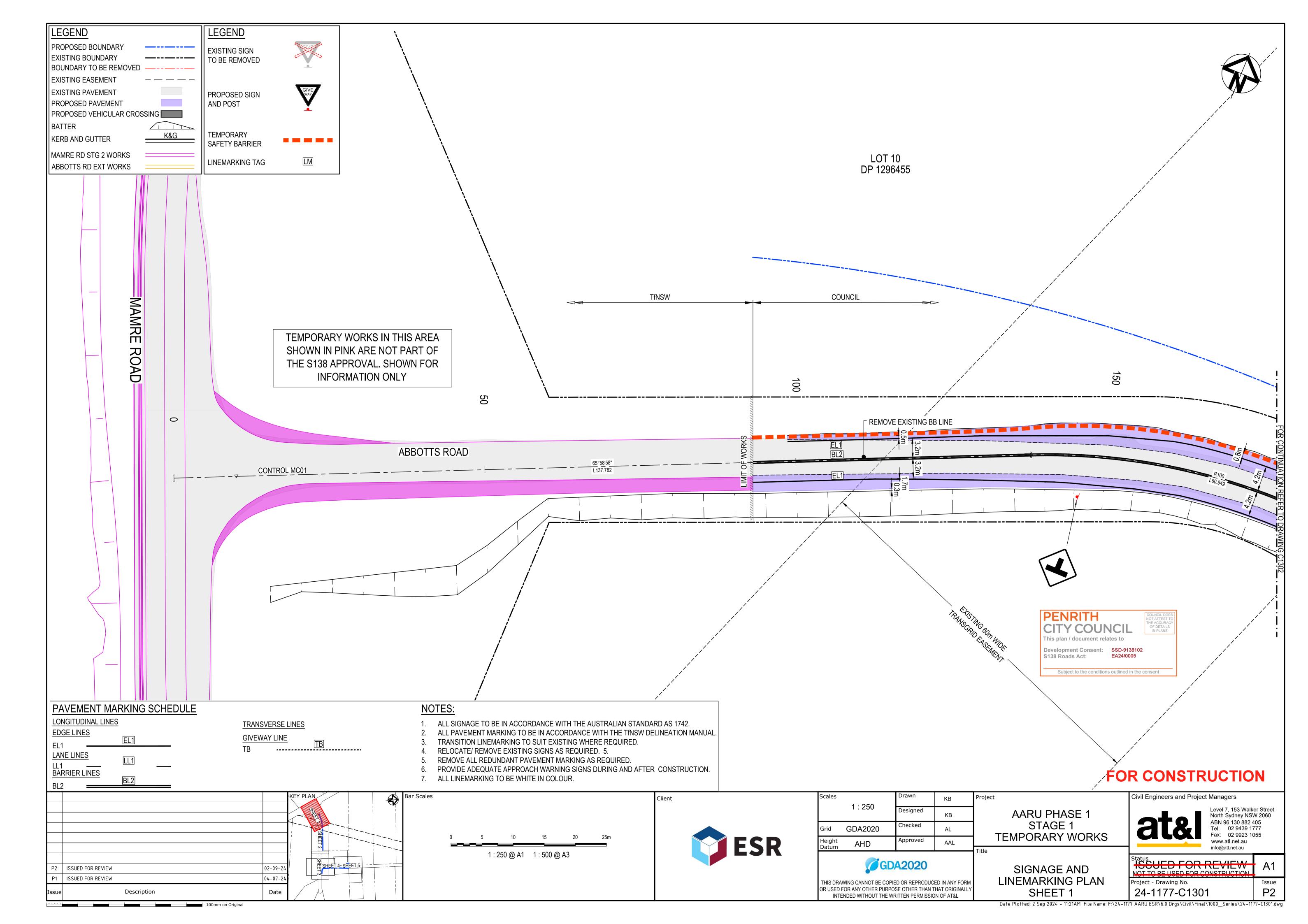


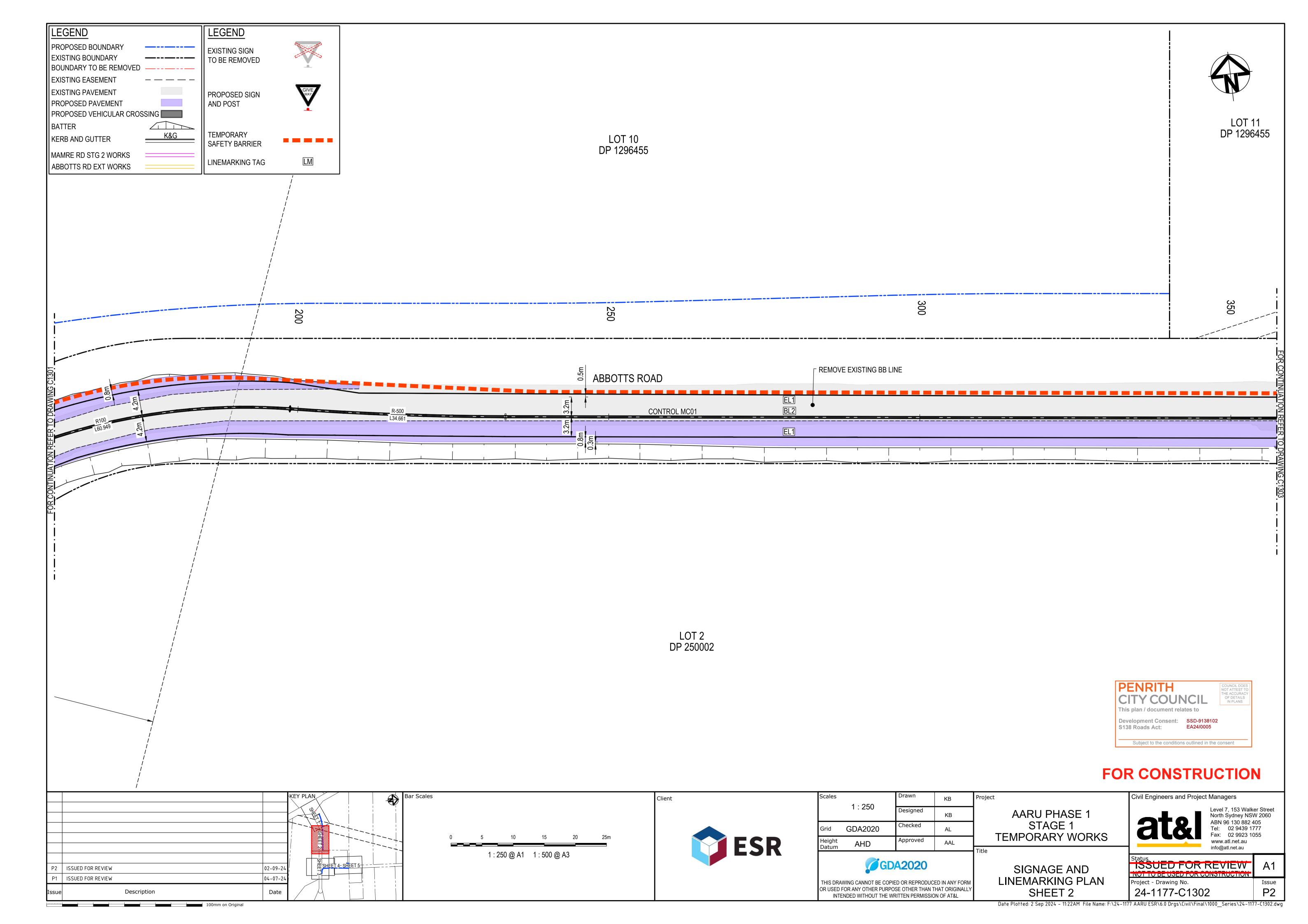


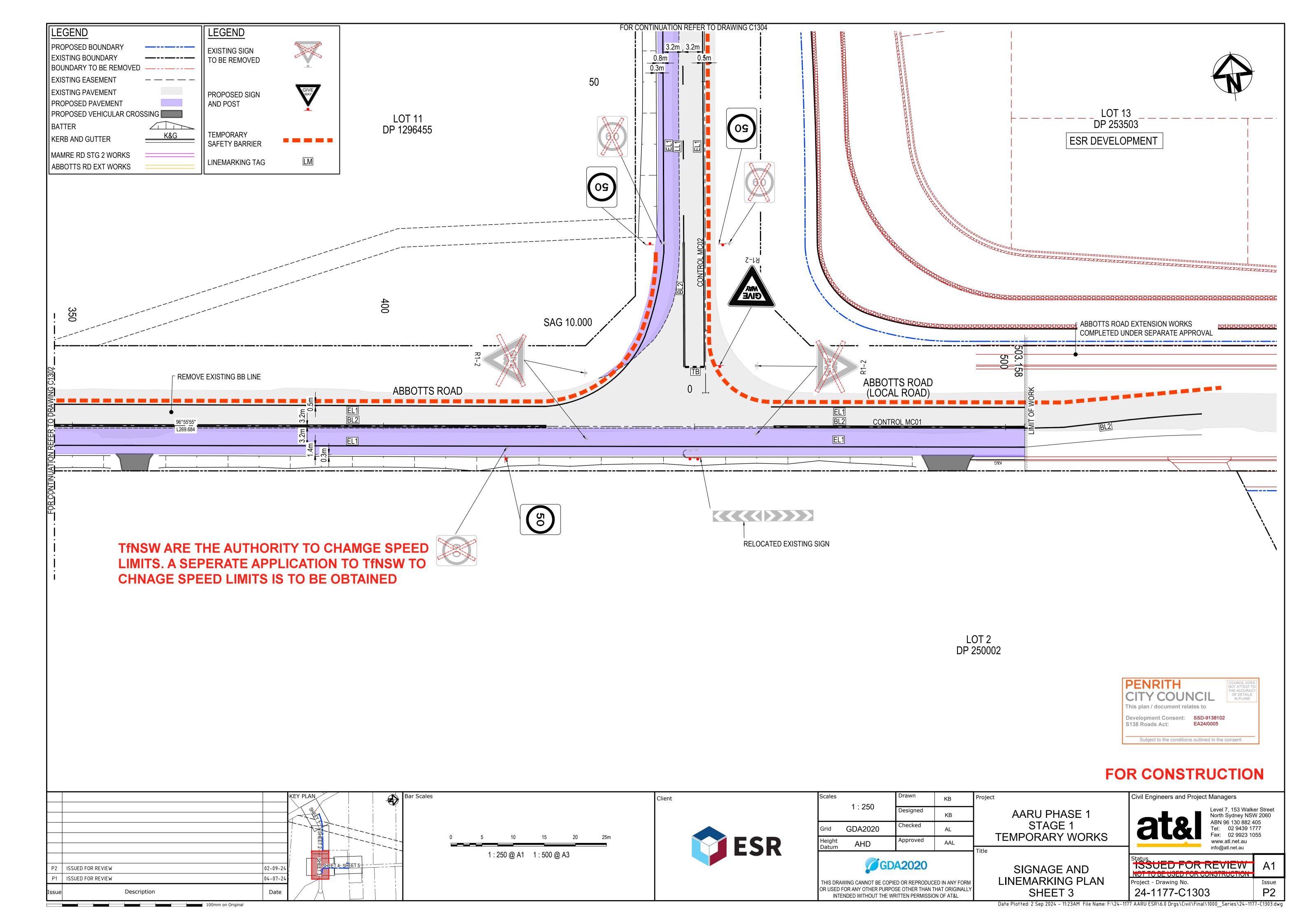


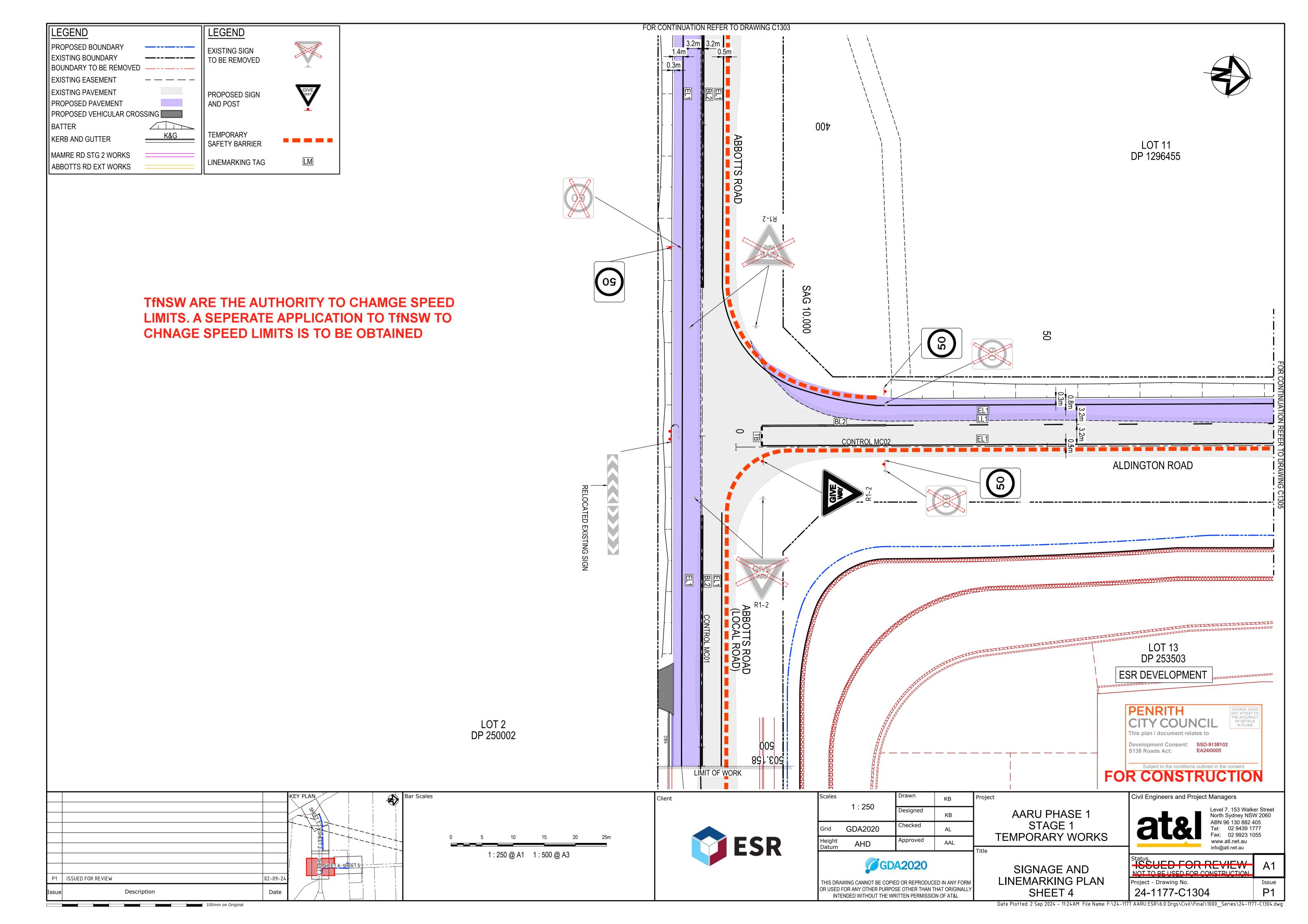


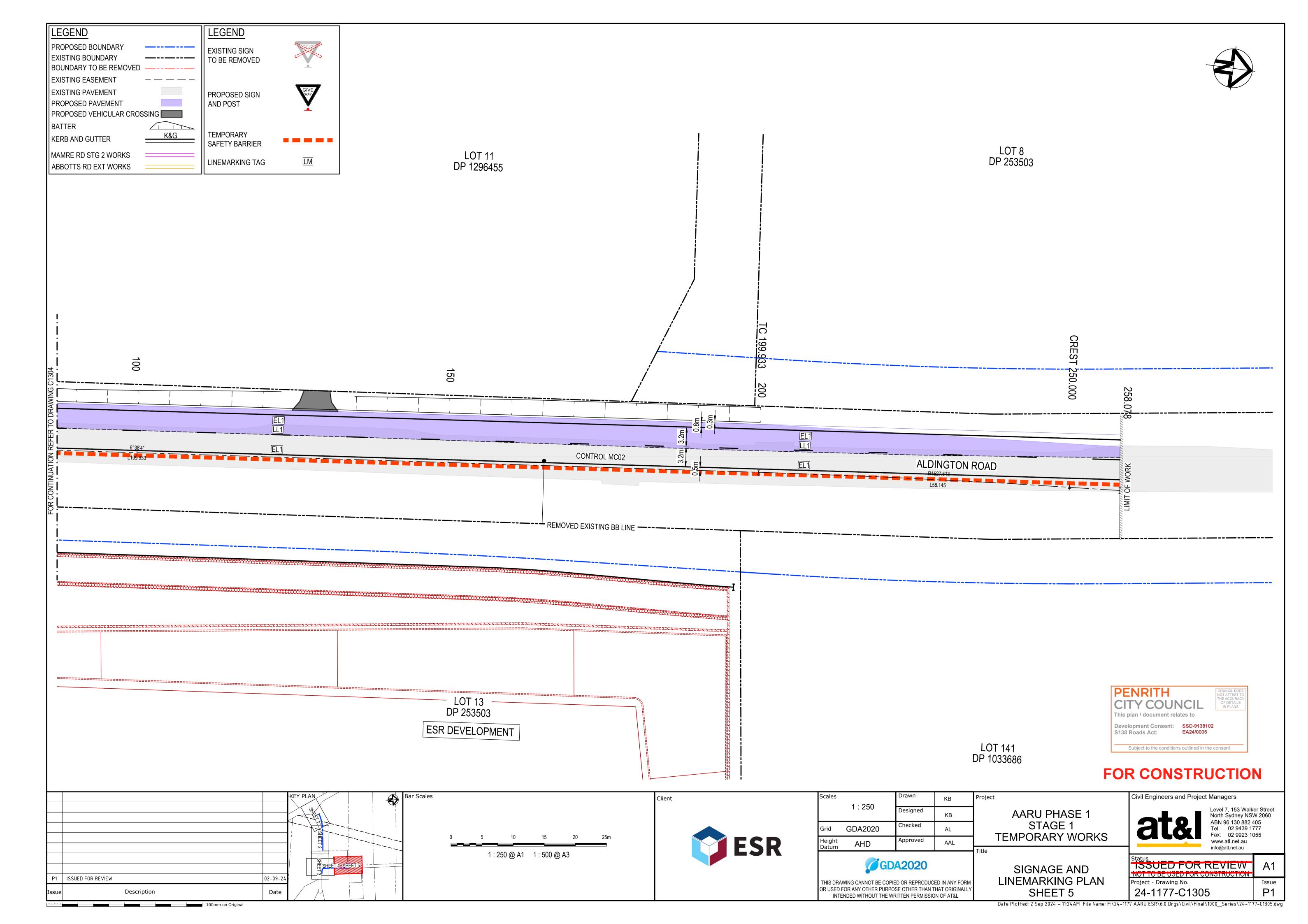


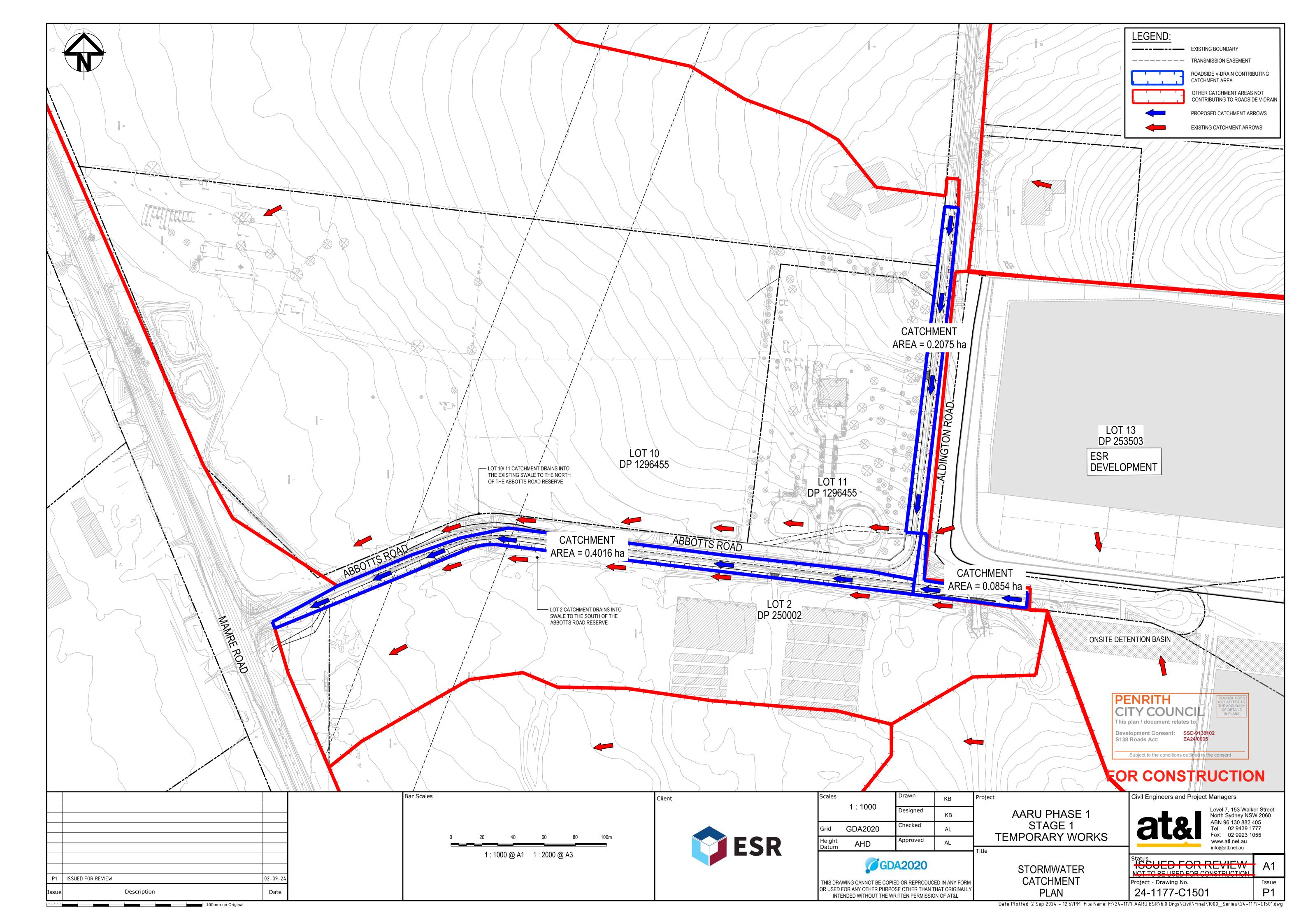


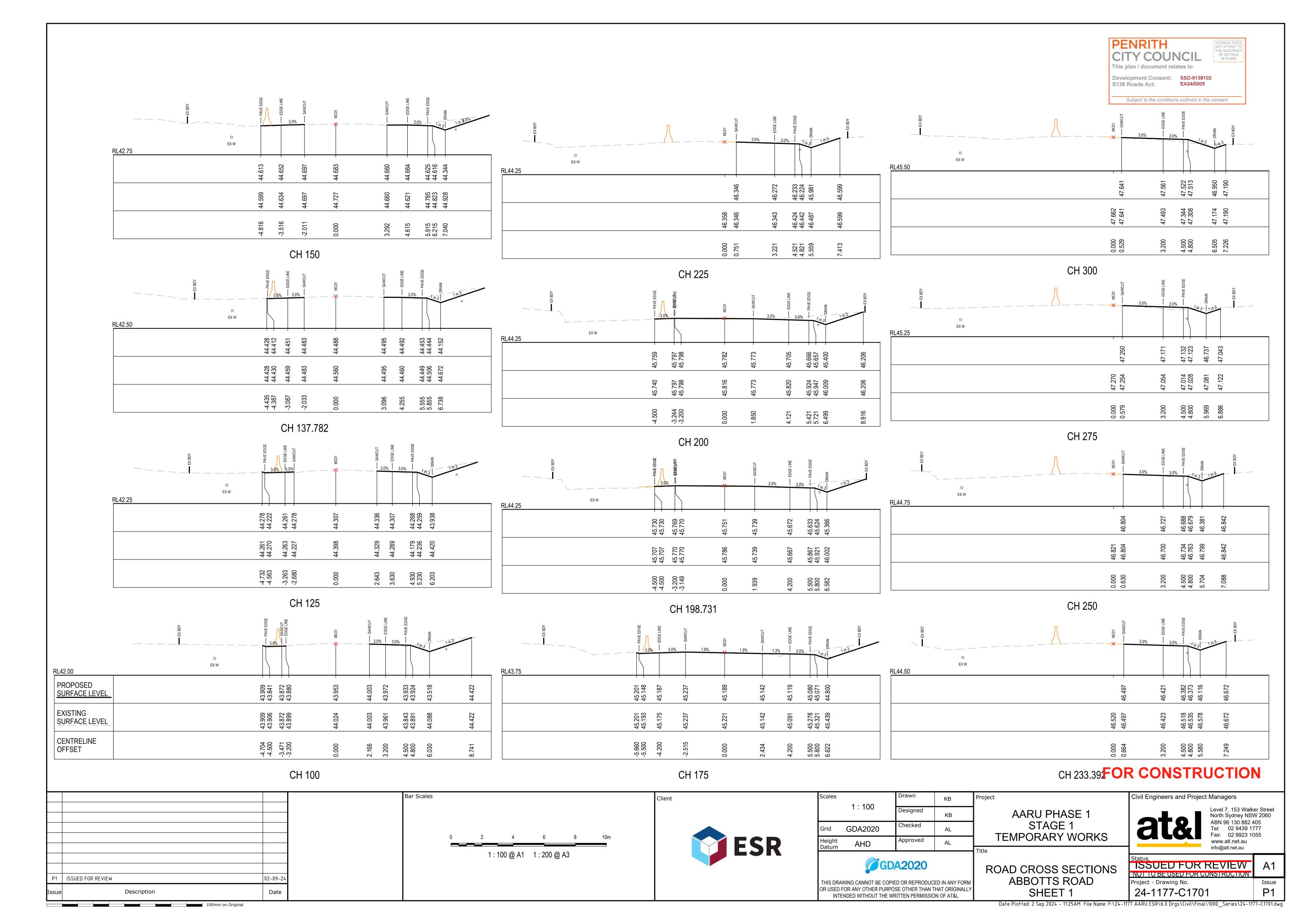


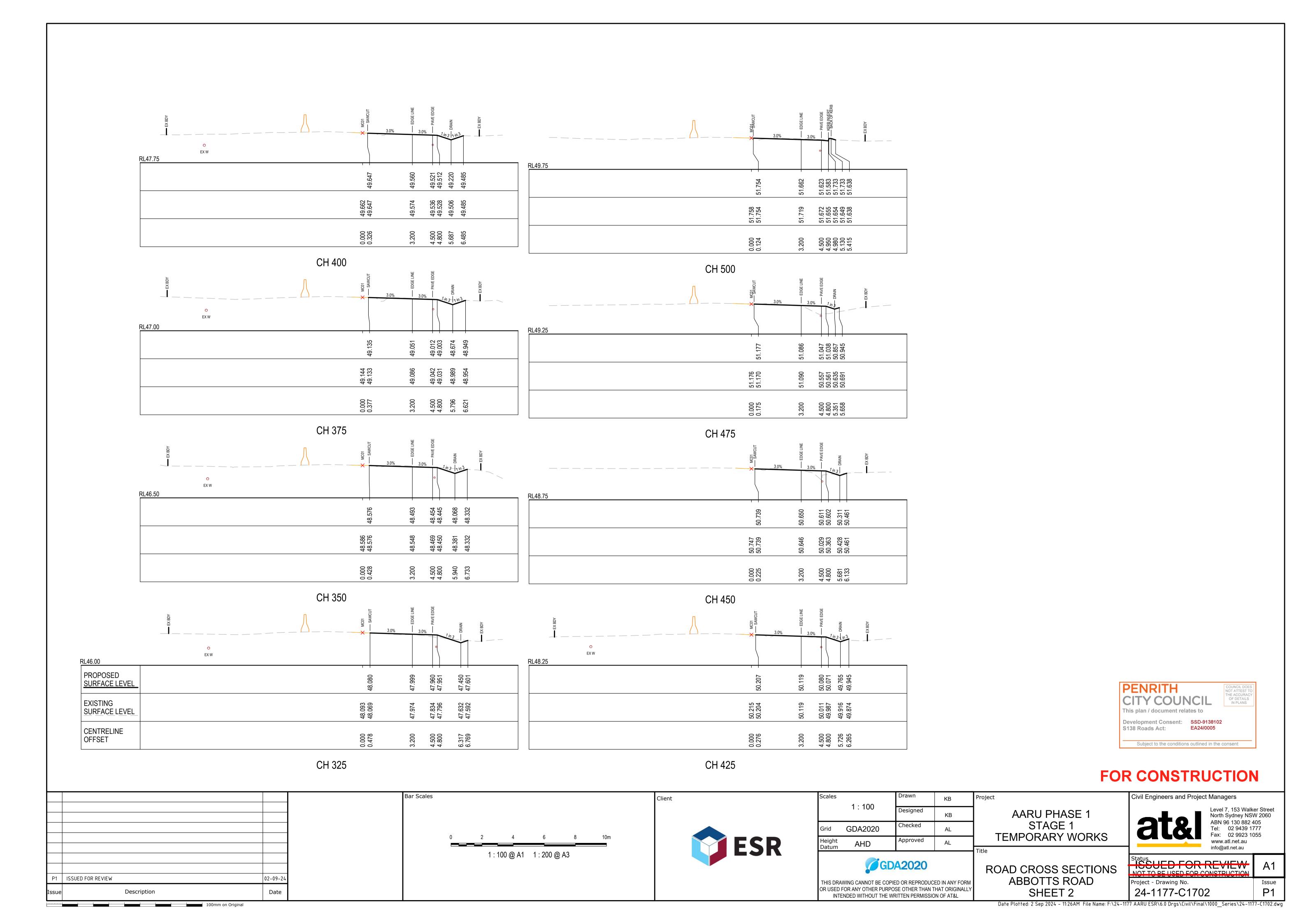


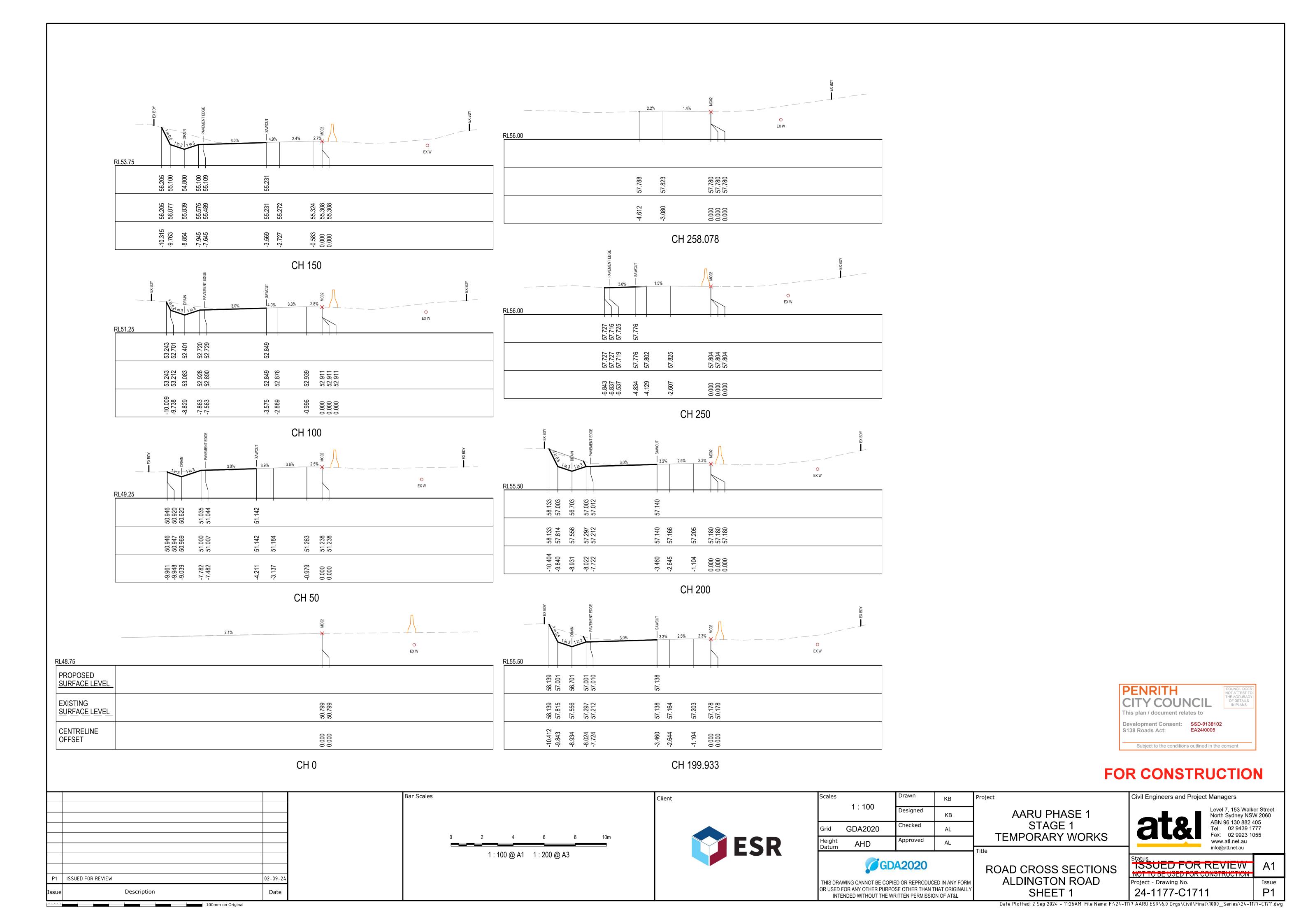


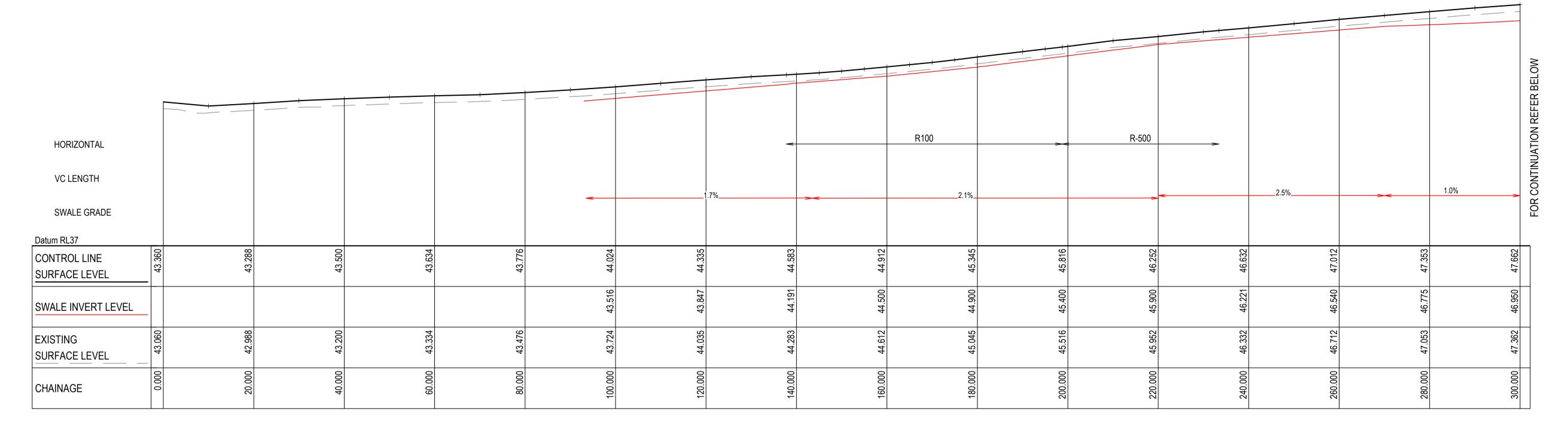




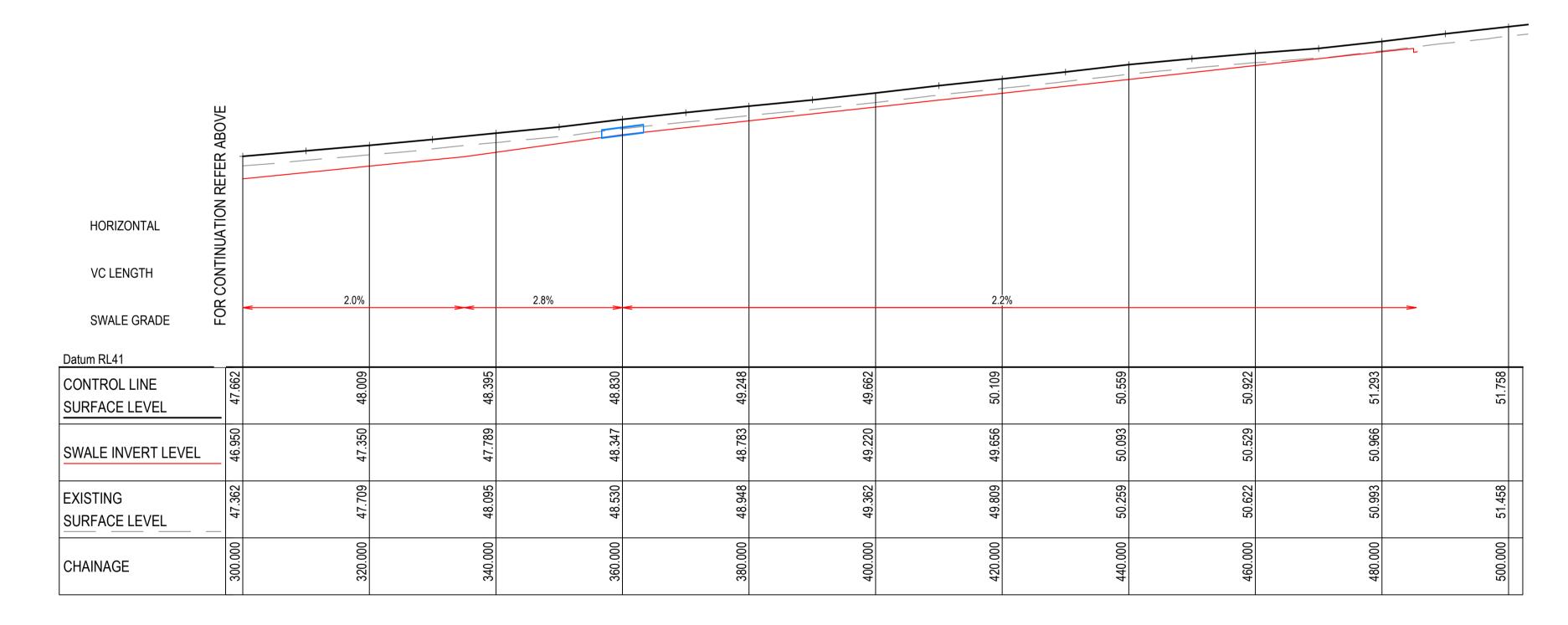








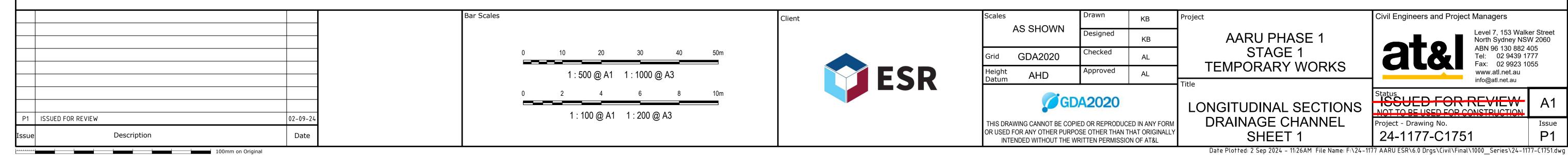
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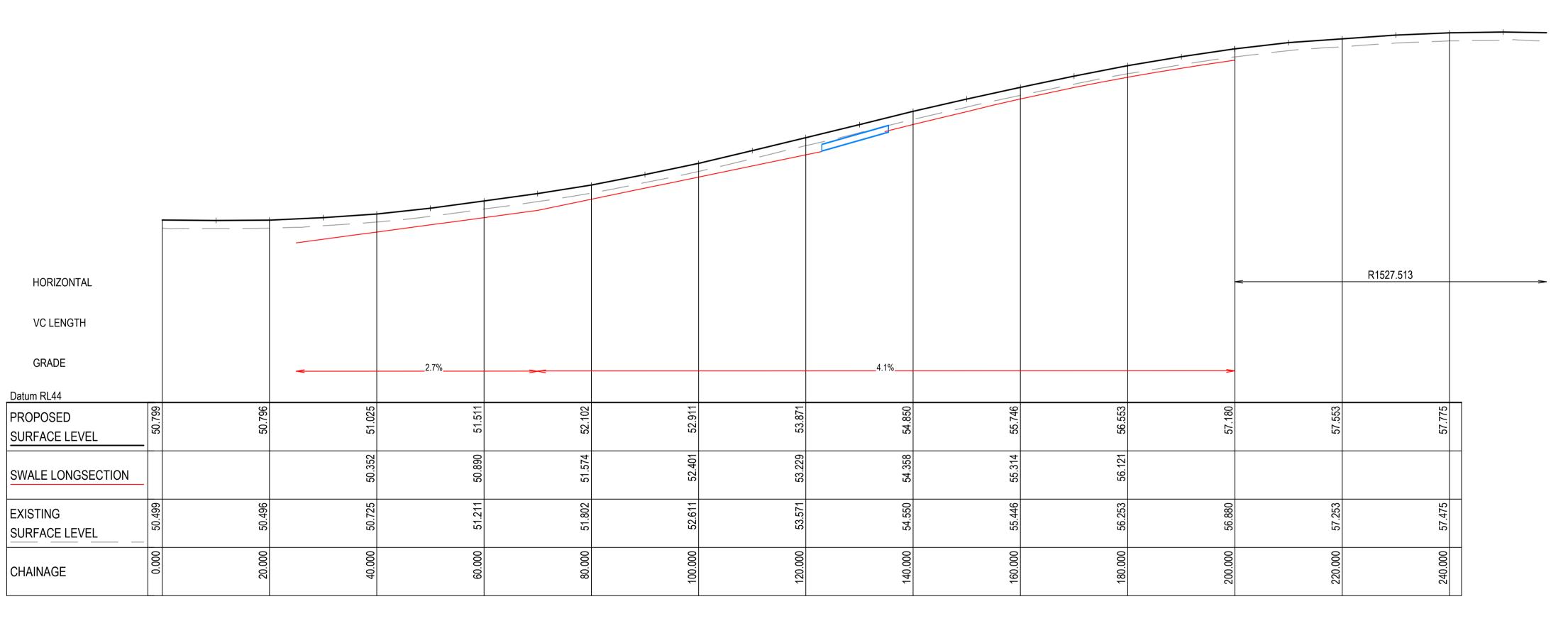


ABBOTTS RD SWALE (MC01) LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.



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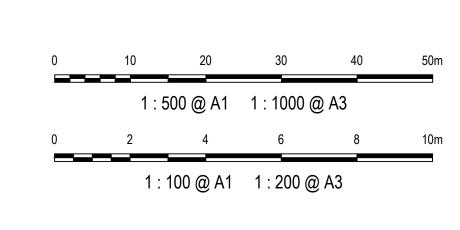
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ALDINGTON ROAD SWALE (MC02) LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

Bar Scales Civil Engineers and Project Managers Project Client AARU PHASE 1 STAGE 1

P1 | ISSUED FOR REVIEW 02-09-24 Date Description





Scales		Drawn	КВ	Pr
	AS SHOWN	Designed	КВ	
Grid	GDA2020	Checked	AL	
Height	AHD	Approved	AL	

TEMPORARY WORKS

GDA2020 LONGITUDINAL SECTIONS DRAINAGE CHANNEL THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY SHEET 2 INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

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Status
ISSUED FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.

24-1177-C1752

Date Plotted: 2 Sep 2024 - 11:26AM File Name: F:\24-1177 AARU ESR\6.0 Drgs\Civil\Final\1000_Series\24-1177-C1752.dwg

