

# ASPECT INDUSTRIAL ESTATE

## ROAD 2 CIVIL WORKS PACKAGE

## SUBDIVISION WORKS CERTIFICATE

### 788-882 MAMRE ROAD, KEMPS CREEK

### SSD-10448



DRAWING LIST	
DRAWING No.	DRAWING TITLE
18-596-C9000	COVER SHEET AND LOCALITY PLAN
18-596-C9001	DRAWING LIST
18-596-C9002	NOTES AND LEGENDS SHEET SHEET 1
18-596-C9003	NOTES AND LEGENDS SHEET SHEET 2
18-596-C9005	GENERAL ARRANGEMENT PLAN
18-596-C9010	TYPICAL ROAD SECTION
18-596-C9015	TYPICAL DETAILS SHEET 1
18-596-C9016	TYPICAL DETAILS SHEET 2
18-596-C9101	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
18-596-C9102	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
18-596-C9105	ROAD 2 CONTROL LINE SETOUT PLAN SHEET 1
18-596-C9106	ROAD 2 CONTROL LINE SETOUT PLAN SHEET 2
18-596-C9111	CUL-DE-SAC & KERB RETURN CONTROL LINE SETOUT PLAN SHEET 1
18-596-C9112	CUL-DE-SAC & KERB RETURN CONTROL LINE SETOUT PLAN SHEET 2
18-596-C9131	ROAD 2 CONTROL LINE LONGITUDINAL SECTION
18-596-C9132	CUL-DE-SAC AND KERB RETURN LONGITUDINAL SECTIONS
18-596-C9151	PAVEMENT MARKING AND SIGNPOSTING SHEET 1
18-596-C9152	PAVEMENT MARKING AND SIGNPOSTING SHEET 2
18-596-C9161	PAVEMENT PLAN SHEET 1
18-596-C9162	PAVEMENT PLAN SHEET 2
18-596-C9201	STORMWATER DRAINAGE LONGITUDINAL SECTION
18-596-C9211	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED) SHEET 1
18-596-C9212	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED) SHEET 2
18-596-C9221	STORMWATER DRAINAGE DETAILS SHEET 1
18-596-C9231	STRUCTURE SETOUT DETAILS SHEET 1
18-596-C9301	CONTROL LINE ROAD 2 , ANNOTATED CROSS SECTIONS
18-596-C9351	EROSION AND SEDIMENT CONTROL PLAN SHEET 1
18-596-C9352	EROSION AND SEDIMENT CONTROL PLAN SHEET 2
18-596-C9360	EROSION AND SEDIMENT CONTROL DETAILS
18-596-C9401	VEHICLE TURN PATH PLAN SHEET 1
18-596-C9451	PROPOSED FENCING PLAN SHEET 1
18-596-C9452	PROPOSED FENCING PLAN SHEET 2

			Bar Scales	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&I	Client 	Scales		Drawn	MH	Project ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03	Civil Engineers and Project Managers  Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
		Designed				MH	Status FOR CONSTRUCTION		A1				
		Grid				GDA2020	Checked	DS	Title DRAWING LIST		Project - Drawing No. 18-596-C9001		Issue 1
		Height Datum				AHD	Approved	DS					
1	ISSUED FOR CONSTRUCTION	31-03-23											
B	ISSUED FOR SWC APPROVAL	30-03-23											
A	ISSUED FOR SWC APPROVAL	10-03-23											
Issue	Description	Date											



1. ORIGIN OF LEVELS- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED 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% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO TNSW SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TNSW FORM 3051 (UNBOUND), TNSW FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TNSW FORM 3051, 3051.1 AND COMPACT TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 PER 50m<sup>2</sup> OF SUB-BASE COURSE MATERIAL PLACED.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LAND PARTNERS PTY LTD & LTS LOCKLEY, 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.

PRIOR TO THE COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL UNDERTAKE A DETAILED BOUNDARY SURVEY AND COMPARE AGAINST THE DESIGN FOR DISCREPANCIES.

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

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

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.

SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. IF NOT ABLE TO BE SO LOCATED, SERVICES HAVE BEEN PLOTTED FROM THE RECORDS OF RELEVANT AUTHORITIES WHERE AVAILABLE AND HAVE BEEN NOTED ACCORDINGLY ON THE PLAN. WHERE SUCH RECORDS DO NOT EXIST OR ARE INADEQUATE A NOTATION HAS BEEN MADE HEREON.

PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES.

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

1. 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.

2. 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.

3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

5. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

6. 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 EXISTING SERVICES.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARYED 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 Fc MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL

- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

1. DEMOLITION OF EXISTING DWELLING TO BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF AS2601-2001 - DEMOLITION OF STRUCTURES BY CONTRACTORS EXPERIENCED IN THIS CLASS OF WORK AND HOLDING REQUIRED CURRENT PERMITS AND LICENSES AS REQUIRED.
2. EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
3. DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).
4. ALL EXISTING SERVICES (INCLUDING SEPTIC TANKS) SHALL BE REMOVED FROM SITE.
5. ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.

ALL OVERHEAD SERVICES SHALL BE REMOVED FROM WITHIN THE SITE BOUNDARY AND MADE SAFE AT THE TERMINATION LOCATION. ANY POLES SHALL BE REMOVED FROM THE SITE.

ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

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 S 5.2.1).

EXPANSION JOINTS (E-J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILL 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.

IN THE REPLACEMENT OF KERB AND GUTTER -  
IF REQUIRED EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.I FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASE COURSE AND SURF TO BE LAID 900mm WIDE U.N.O.

STORMWATER DESIGN CRITERIA:

- (A) AVERAGE RECURRENCE INTERVAL:
  - 1:100 YEARS= MAJOR STORM (OVERLAND FLOW)
  - 1:20 YEARS= MINOR STORM (PIPED NETWORK)
- (B) RAINFALL INTENSITIES:
  - TIME OF CONCENTRATION= 5 MINUTES
  - 1:100 YEARS= 219 mm/hr
  - 1:20 YEARS= 167 mm/hr
- (C) RUNOFF COEFFICIENTS:
  - ROOF AREAS: C 100 =1.0
  - EXTERNAL PAVEMENTS: C 100 =1.0

PIES 300 DIA. AND LARGER ARE TO BE REINFORCED CONCRETE (RCP) OR FIBER-REINFORCED CONCRETE (FRC) CLASS 3 APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS (U.N.O. ALL ROAD CROSSINGS TO BE CLASS 5" U.N.O..

PIES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.

EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.

ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6 ENSURE ALL VERTICALS AND DOWNPIES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.

PIES TO BE INSTALLED TO TYPE H52 SUPPORT IN ACCORDANCE WITH AS 3725 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)

ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).

ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WALL BE REPAIRED AND SUFFICIENTLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / PERMITH CITY COUNCIL.

ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.

PIPE JOINTING/SEALING OF PIPE PENETRATION TO BE WITH A NON-SHRINK MORTAR MIX, E.G. LANKO 702 DURABED OR SIMILAR APPROVED.

SUBSOIL DRAINAGE FLUSHING AND/OR INTERMEDIATE RISERS TO BE INSTALLED AT 40m centres, AND AT ALL UPSTREAM ENDPOINTS

ANY ADDITIONAL PENETRATIONS TO ANY STRUCTURAL CONCRETE (E.G. STORMWATER PITS, CULVERTS, HEADWALLS ETC.) SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS, IF REQUIRED.

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 QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE, THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
4. COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE 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. GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm 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. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. 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.
11. WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

1. 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
  - a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
  - b. LAND 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 DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

**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 CONSULTANT.

DURING WINDY WEATHER. LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

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 FENCING.

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.

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.

2. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED AND REVEALED AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

## OTHER MATTERS

ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

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 CLOSURE 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.

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 A/T/ DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENNETH CITY COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS IN ORDER TO SUIT THE SELECTED CONSTRUCTION SCHEDULE. THIS IS TO BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND THEIR EROSION NO SEDIMENT CONSULTANT AND PROVIDED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

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.

1. THE CONTRACTOR IS TO PROVIDE STRUCTURAL CERTIFICATION  
ON ALL STRUCTURAL ELEMENTS, INCLUDING DESIGN  
CERTIFICATION AND FINAL CONSTRUCTION CERTIFICATION.  
THIS INCLUDES:  
\* ALL RETAINING WALLS  
\* CULVERTS EXCLUDING BASE SLABS  
\* HEADWALLS  
\* STORMWATER STRUCTURES  
ALL STRUCTURAL CERTIFICATES MUST BE PREPARED BY A  
SUITABLY QUALIFIED STRUCTURAL ENGINEER.

1. THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH PENRITH CITY COUNCIL'S LATEST REVISION OF THE 'ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS'
2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR
  - 2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT
  - 2.2. THE PENRITH CITY COUNCIL'S SPECIFICATION TAKES PRECEDENCE
3. REFER PELS SULLIVAN MEYNIKN REPORT PSM3739-008S REV 6 (DATED 13 OCT 2020) FOR BULK EARTHWORKS SPECIFICATIONS.
4. REFER SITE IMAGE LANDSCAPE SPECIFICATION (CURRENT REVISION) FOR LANDSCAPE SPECIFICATION.

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date

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Scales	Drawn	MH
	Designed	MH
Grid	GDA2020	Checked DS
Height Datum	AHD	Approved DS



Project  
ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

NOTES AND LEGENDS  
SHEET  
SHEET 1

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Status <b>FOR CONSTRUCTION</b>	<b>A1</b>
Project - Drawing No. <b>18-596-C9002</b>	Issue <b>1</b>



OVERALL LEGEND - COMBINED

	EXISTING BOUNDARY
	EXISTING CONTOUR
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	FUTURE BOUNDARY
	BATTER
	PROPOSED SURFACE LEVE
	STAGE 1A CONTOUR (0.2m INTERVAL)
	PROPOSED MAJOR CONTOUR (1.0m INTERVAL)
	PROPOSED MINOR CONTOUR (0.20m INTERVAL)
	K&G
	KERB AND GUTTER (REFER PCC DWG. SD1003/1)
	PRAM RAMP (REFER PCC DWG. SD1002)
	VEHICLE CROSSOVER COMMERCIAL (REFER PCC DWG. SD1004)
	STAGE 1A STORMWATER BOX CULVERT REFER TO 7000 SERIES DRAWINGS FOR DETAILS.
	STAGE 1A STORMWATER PIPE REFER TO 7000 SERIES DRAWINGS FOR DETAILS.
	STORMWATER BOX CULVERT (NUMBERED CELLS) (REFER TO DRAWINGS C9101 & C9102).
	STORMWATER PIPE (REFER TO DRAWINGS C9101 & C9102).
	KERB INLET PIT (REFER TO DRAWINGS C9101 & C9102).
	SURFACE INLET PIT (REFER TO DRAWINGS C9101 & C9102).
	JUNCTION PIT (REFER PCC DWG. SD2002 U.N.O)
	SUBSOIL DRAINS WITH FLUSHING POINTS
	REFER QALCHEK DRAWINGS FOR DETAILS PROPOSED GRAVITY SEWER
	PROPOSED GRAVITY SEWER MANHOLE REFER QALCHEK DRAWINGS FOR DETAILS
	PROPOSED GRAVITY SEWER MAINTENANCE SHAFT REFER QALCHEK DRAWINGS FOR DETAILS
	PROPOSED STREET LIGHT REFER EDgewater DRAWINGS FOR DETAILS
	PROPOSED STREET TREE (REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR FINAL TREE LOCATIONS AND DETAILS)
	PROPOSED CATCHMENT (REFER TO DRAWINGS C9211 & C9212).
	FLOW DIRECTION (REFER TO DRAWINGS C9211 & C9212).
	FENCE TYPE 1 (REFER TO DRAWINGS C9211 & C9212).
	EXISTING FENCE TYPE 1 REFER 8000 SERIES DRAWINGS FOR DETAILS
	EXISTING FENCE TYPE 4 REFER 8000 TO SERIES FOR DETAILS.
	EXISTING FENCE TO BE REMOVED (REFER TO DRAWINGS C9451 & C9452).
	BARRIER LINES (REFER TO DRAWINGS C9151 & C9152).
	CLEARWAY LINE (REFER TO DRAWINGS C9151 & C9152).
	GIVEWAY LINES (REFER TO DRAWINGS C9151 & C9152).
	LINEMARKING TYPE (REFER TO DRAWINGS C9151 & C9152).
	PROPOSED SIGN (REFER TO DRAWINGS C9151 & C9152).
	PROPOSED SIGN POST LOCATION (REFER TO DRAWINGS C9151 & C9152).
	EXISTING SIGN STAGE 1A REFER TO 7000 SERIES DRAWINGS FOR DETAILS.
	EXISTING SIGN POST LOCATION STAGE 1A REFER TO 7000 SERIES DRAWINGS FOR DETAILS.

PAVEMENT LEGEND

	ROAD 2 PAVEMENT 70mm THICKNESS AC14 (C450, E=2700 Mpa) ON 7mm SPRAYED SEAL (CL170) 150mm THICKNESS UNBOUND BASECOURSE (R71, TNSW3051, E=350MPa) ON 150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TNSW3051, E=250MPa) ON 370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).
	CUL-DE-SAC PAVEMENT 75mm THICKNESS AC14 (A15E BINDER (SBS PMB MODIFIED BINDER), E = 2000 MPa) on 7mm SPRAYED SEAL (CL170) ON 150mm THICKNESS UNBOUND BASECOURSE (R71, TNSW3051, E=350MPa) ON 150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TNSW3051, E=250MPa) ON 370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).
	FOOTPATH PAVEMENT 125mm THICKNESS CONCRETE WITH SL72 (40mm PLACED CENTRALLY) ON THICKNESS SAND BEDDING OR GRANULAR BASE ON COMPACTED SUBGRADE. (REFER TO PENRITH CITY COUNCIL STANDARD DWG SD1001 FOR JOINTING DETAILS). SLIP-FORM CYCLE WAYS MUST BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION.
	LANDSCAPED TREATMENT REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
	LANDSCAPED TEMPORARY BATTER REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS. ALL BATTERS TO BE TREATED WITH POLYMER BASED SEDIMENT CONTROL PRODUCT

**PAVEMENT DESIGN CRITERIA:**  
ASSUMED ESA = 1.3x10<sup>7</sup>  
ASSUMED CBR = 3.0%; CBR TO BE CONFIRMED ON SITE IN ACCORDANCE WITH COUNCIL SPECIFICATIONS  
IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS)

**NOTES:**

- REFER PSM3739-039L FOR PAVEMENT DESIGN DETAILS AND SPECIFICATIONS
- ALL PAVEMENT MATERIALS ARE TO SATISFY THE REQUIREMENTS OF THOSE STATED WITHIN THESE DRAWINGS AND PENRITH CITY COUNCIL'S SPECIFICATIONS, WHICHEVER IS GREATER.
- THE CONTRACTOR IS TO ARRANGE FOR SAMPLING OF THE SUBGRADE WITHIN ROADS, TO CONFIRM CBR AND PROVIDE A GEOTECHNICAL REPORT CONFIRMING THE PAVEMENT COMPOSITION IN COMPLIANCE WITH PCC'S SPECIFICATION, SUPPORTED BY NATA ACCREDITED TEST RESULTS.
- WHERE CBR RESULTS ARE LESS THAN 3% AND INSITU LIME STABILISATION IS REQUIRED, CBR SAMPLING IS TO BE COMPLETED POST INSITU LIME STABILISATION TO CONFIRM RESULTANT CBRs HAVE REACHED THE MINIMUM 3% REQUIREMENT. A GEOTECHNICAL REPORT, SUPPORTED BY NATA ACCREDITED TEST RESULTS SHALL BE PROVIDED FOR VALIDATION.

CONSTRUCTION TOLERANCES

BULK EARTHWORKS			PAVEMENT / ACCESS TRACKS		
EARTHWORKS	-50mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)	CONCRETE		
			KERB	-5mm / +5mm	ALONG THE TOP OF KERB OVER A LENGTH OF 5 METRES
			KERB	-5mm / +5mm	ALONG THE FACE OF KERB OVER A LENGTH OF 5 METRES
			PATH	-0mm / +10mm	OF FOOTPATH/SHARED PATH FINISHED SURFACE LEVEL
			PATH		SURFACE OF THE PATH, INCLUDING JOINTS, MUST NOT POND WATER.
STORMWATER PIPES/CULVERTS	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT			
PIPES/CULVERTS	WITHIN 100mm	OF THE PLAN POSITION SHOWN ON THE DRAWINGS OR SPECIFIED AT ANY POINT			
HEADWALLS	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT			
HEADWALLS	WITHIN 100mm	OF THE PLAN POSITION SHOWN ON THE DRAWINGS OR SPECIFIED AT ANY POINT			
CHAMBERS	WITHIN 20mm	OF THE INVERT LEVEL SHOWN ON THE DRAWINGS			
CHAMBERS	WITHIN 200mm	LONGITUDINALLY OF THE PLAN POSITION, WITH REFERENCE TO THE CONTROL LINE FOR THE ROAD SHOWN ON THE DRAWINGS			
LINTELS	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL				
COVERS	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL				
GRATES	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL				
OPEN DRAINS	WITHIN 50mm	OF THE DESIGN LEVEL AT ANY POINT PROVIDED THAT THERE IS A CONTINUOUS DOWNGRADE (WITHOUT PONDING) IN THE DIRECTION OF FLOW NOT LESS THAN 0.5% AT ANY POINT			
PAVEMENT / ACCESS TRACKS			TOLERANCE FOR EMBANKMENT BATTERS		
SUBBASE	-10mm / +10mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)			
SUBBASE	-10mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)			
SUBBASE	-5mm / +5mm	ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION) OVER A LENGTH OF 3 METRES			
BASECOURSE	-0mm / +20mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)			
BASECOURSE	-0mm / +10mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)			
BASECOURSE	-5mm / +5mm	ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION) OVER A LENGTH OF 3 METRES			
SEAL	-0mm / +10mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER ROLLING AGGREGATE)			
SEAL	-5mm / +10mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE DATE OF PRACTICAL COMPLETION			
SEAL	SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE JOINTS, MUST NOT POND WATER.				
ASPHALT	-0mm / +10mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION)			
ASPHALT	-5mm / +5mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE DATE OF PRACTICAL COMPLETION			
ASPHALT	-8mm / +8mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE COMPLETION OF THE DEFECT LIABILITY PERIOD			
ASPHALT	SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE JOINTS, MUST NOT POND WATER.				

LOCATION		TOLERANCE (mm)	
		SLOPE 1H:1V OR FLATTER	SLOPE STEEPER THAN 1H:1V
AT LEVEL OF TOP OF FORMATION/ UNDERSIDE OF PAVEMENT		+0/-150	+0/-150
BETWEEN TOP OF FORMATION AND 1m BELOW TOP OF FORMATION		+150/-150	+150/-150
BEYOND 1m BELOW TOP OF FORMATION		+300/-300	+300/-300
REFER TO TfNSW R44 SPECIFICATION			

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date

Bar Scales

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Client



Scales

		Designed	MH
Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS
			

Project

ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title

NOTES AND LEGENDS  
SHEET  
SHEET 2

Civil Engineers and Project Managers

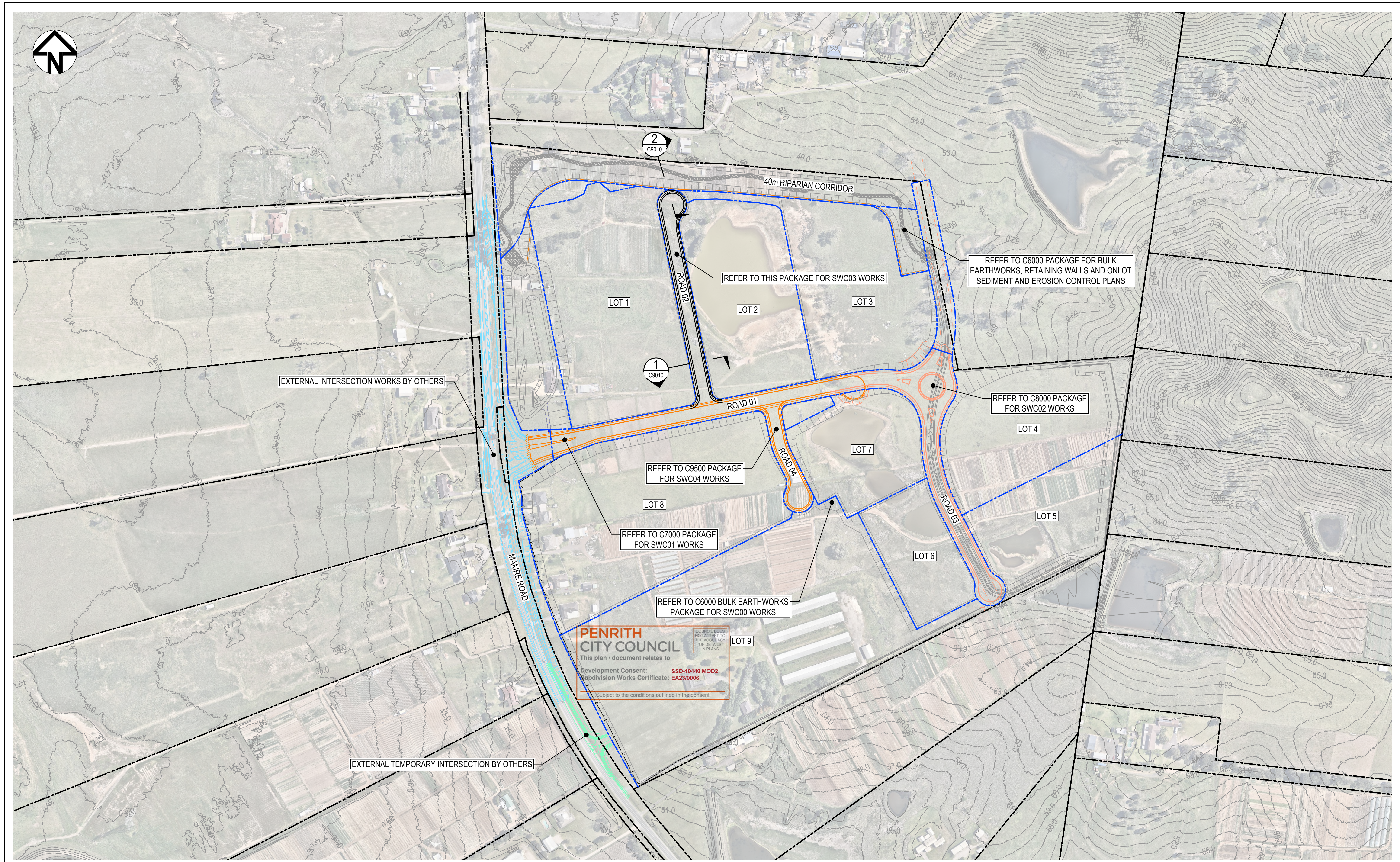


Status	FOR CONSTRUCTION	A1
Project - Drawing No.	18-596-C9003	Issue
		1

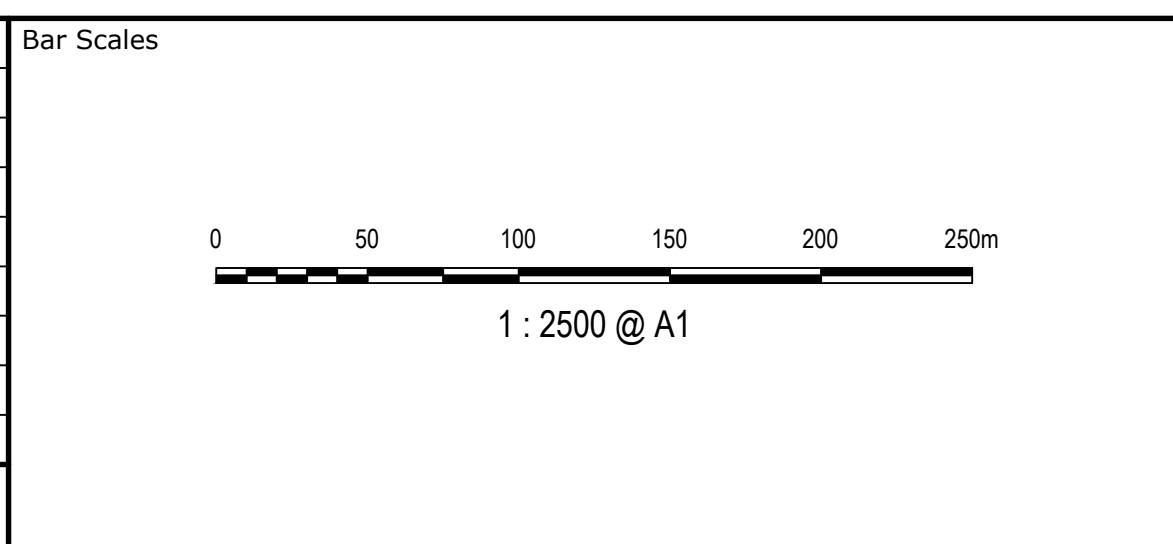
**PENRITH CITY COUNCIL**  
This plan / document relates to  
Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**  
Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS





1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date



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Scales  
1:2500

Grid  
GDA2020

Height Datum  
AHD

Drawn  
JP

Designed  
MH

Checked  
DS

Approved  
DS

Project  
**ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03**

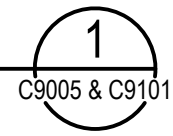
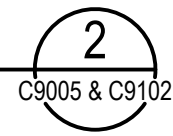
Title  
**GENERAL ARRANGEMENT  
PLAN**

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

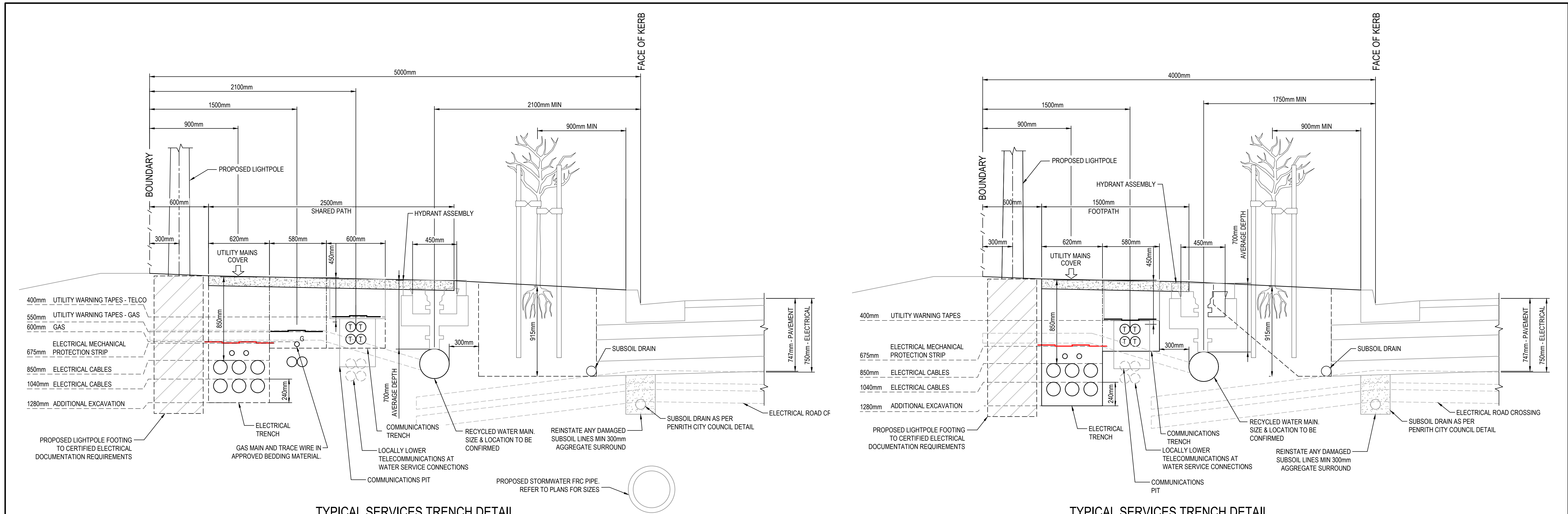
Status <b>FOR CONSTRUCTION</b>	A1
Project - Drawing No. <b>18-596-C9005</b>	Issue <b>1</b>





F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\9000\_SWC03 CC\18-596-C9010.dwg



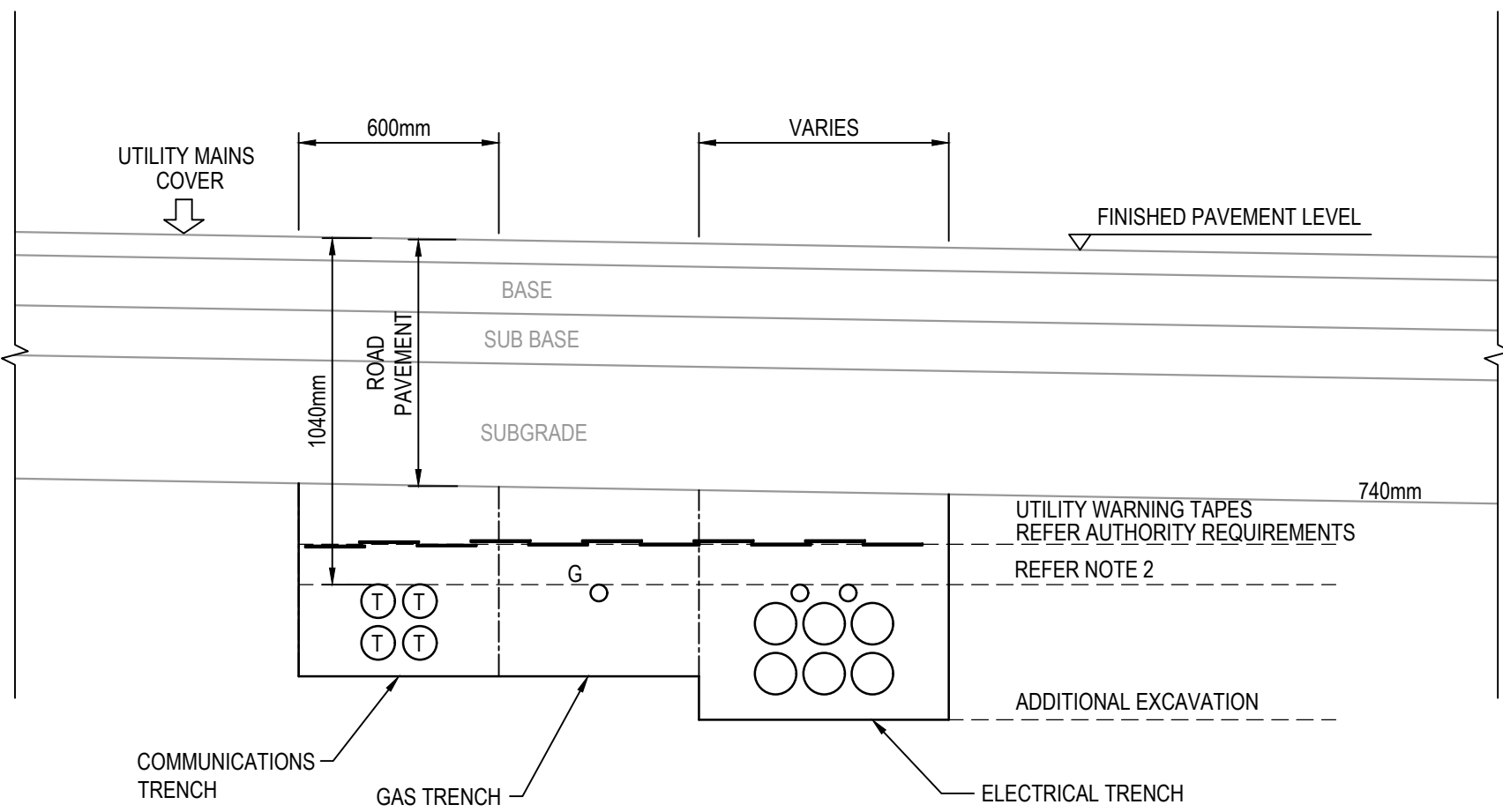


TYPICAL SERVICES TRENCH DETAIL  
(SHARED PATH VERGE)

SCALE 1:20  
NOTE: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY DOCUMENTATION.

TYPICAL SERVICES TRENCH DETAIL  
(FOOTPATH VERGE)

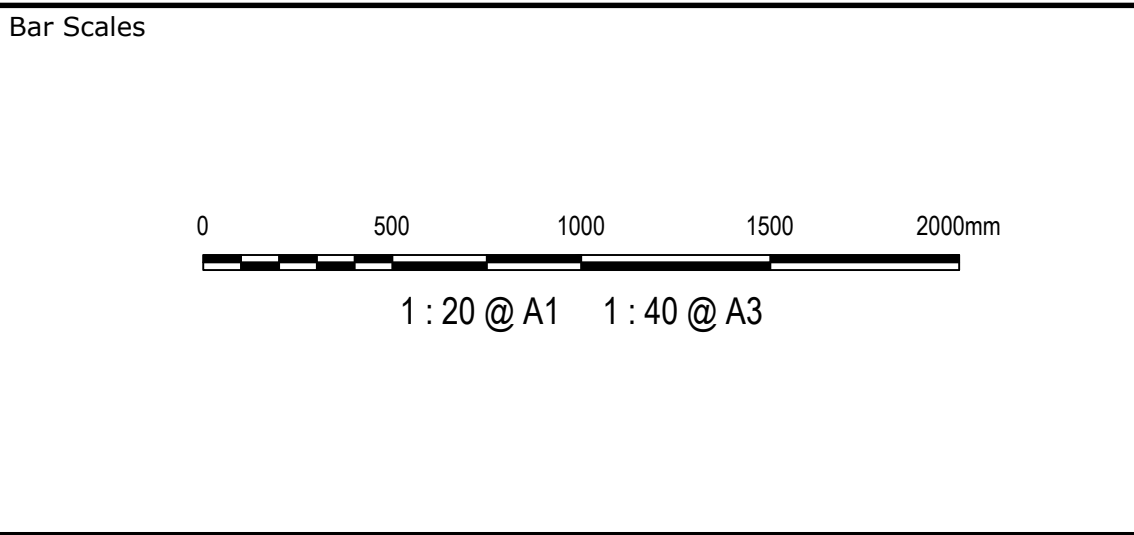
SCALE 1:20  
NOTE: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY DOCUMENTATION.



TYPICAL SERVICES TRENCH DETAIL (ROAD CROSSING)

- NOTES
- 1: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY DOCUMENTATION.
  - 2: UTILITY DEPTHS TO BE INSTALLED IN ACCORDANCE WITH AUTHORITY REQUIREMENTS OR MINIMUM 300mm BELOW SUBGRADE, WHICHEVER IS THE MORE ONEROUS.

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23



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Project  
ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title  
TYPICAL DETAILS  
SHEET 1

**PENRITH CITY COUNCIL**  
This plan / document relates to  
Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**  
Subject to the conditions outlined in the consent

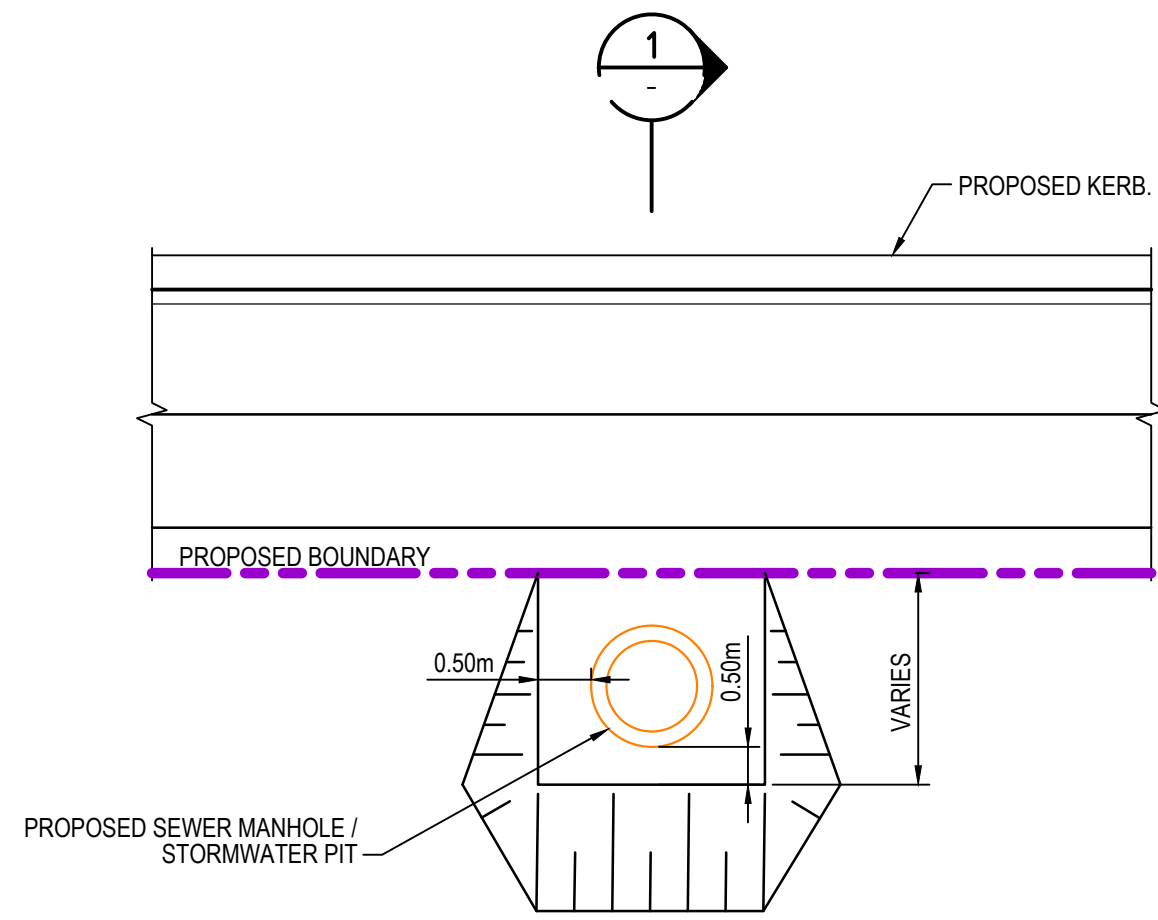
Council Engineers and Project Managers  
**at&l**  
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status  
**FOR CONSTRUCTION**

Project - Drawing No.  
**18-596-C9015**

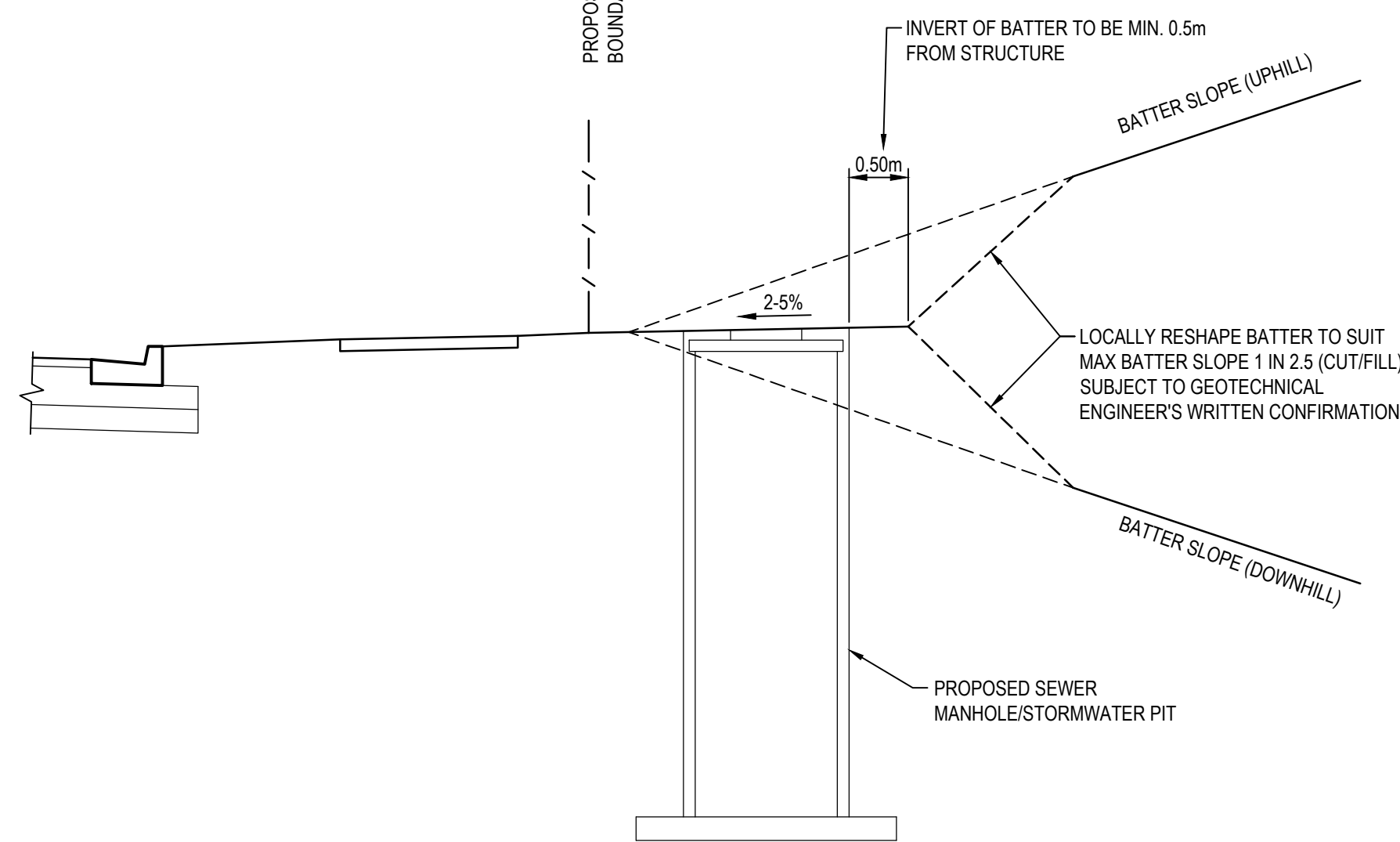
Issue  
**1**





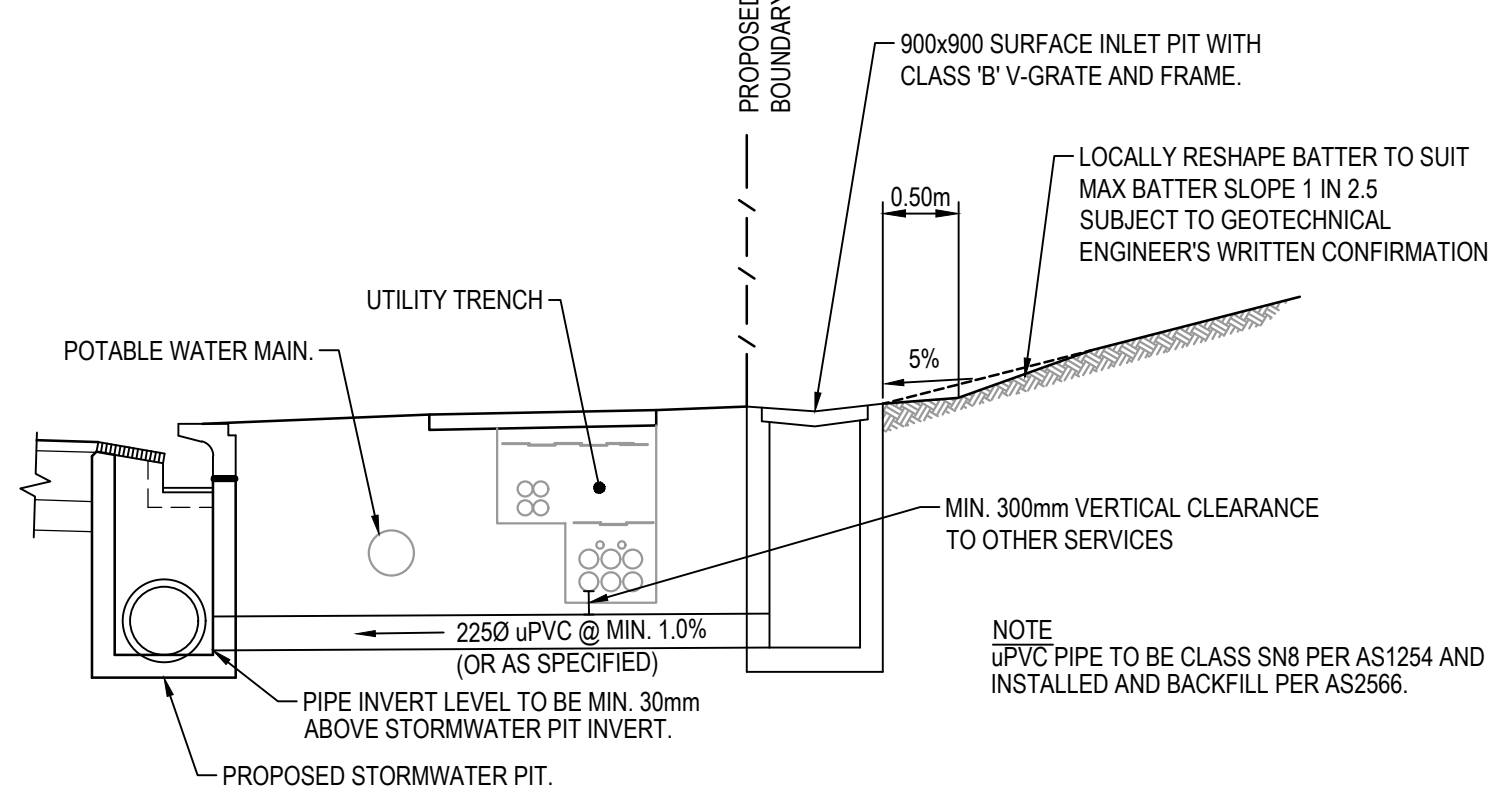
SEWER MANHOLE AND STORMWATER PIT IN BATTER DETAIL

1 : 100

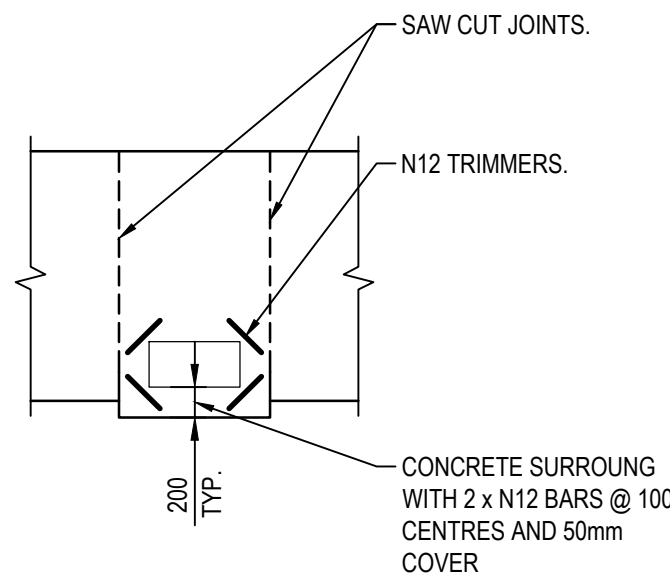


TYPICAL BATTER CATCH DRAIN PIT DETAIL

1 : 100

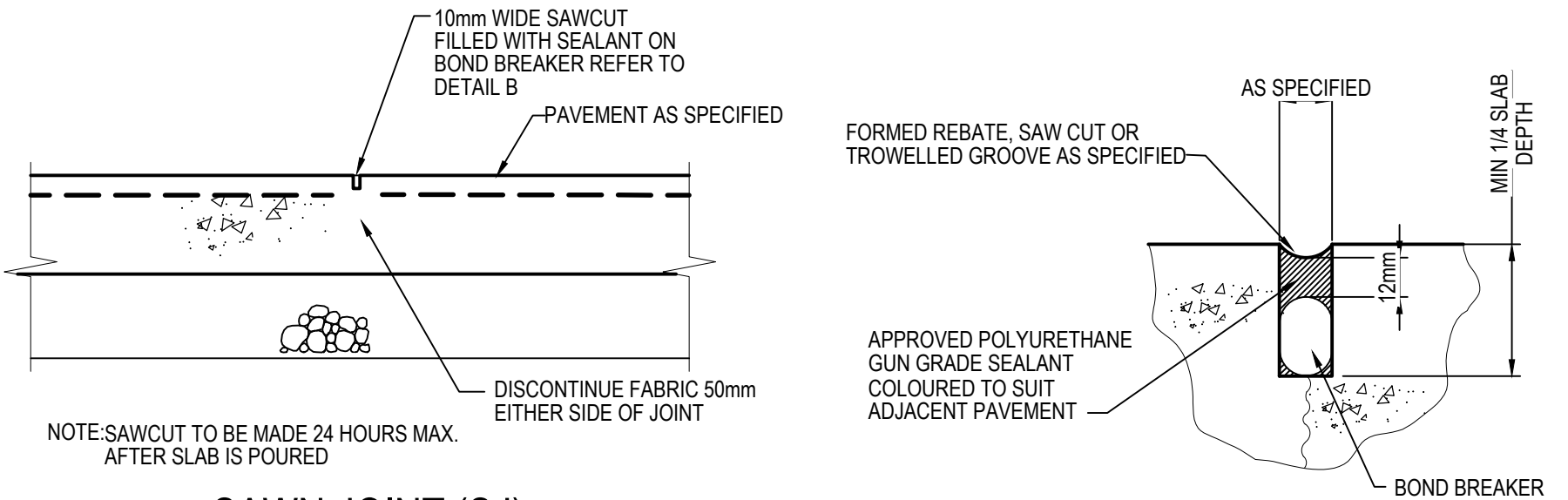


SECTION 1  
1 : 50



SERVICE COVER IN FOOTPATH  
TYPICAL DETAIL

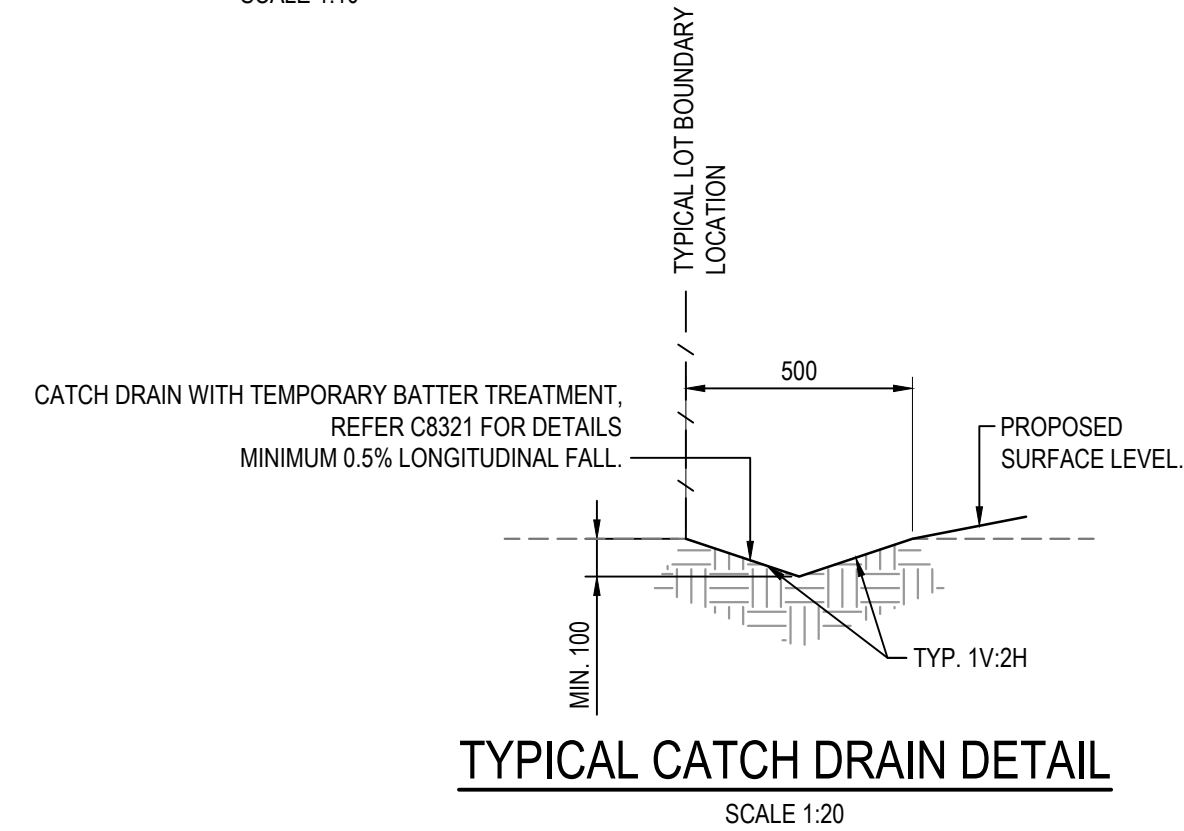
SCALE 1:50



SAWN JOINT (SJ)

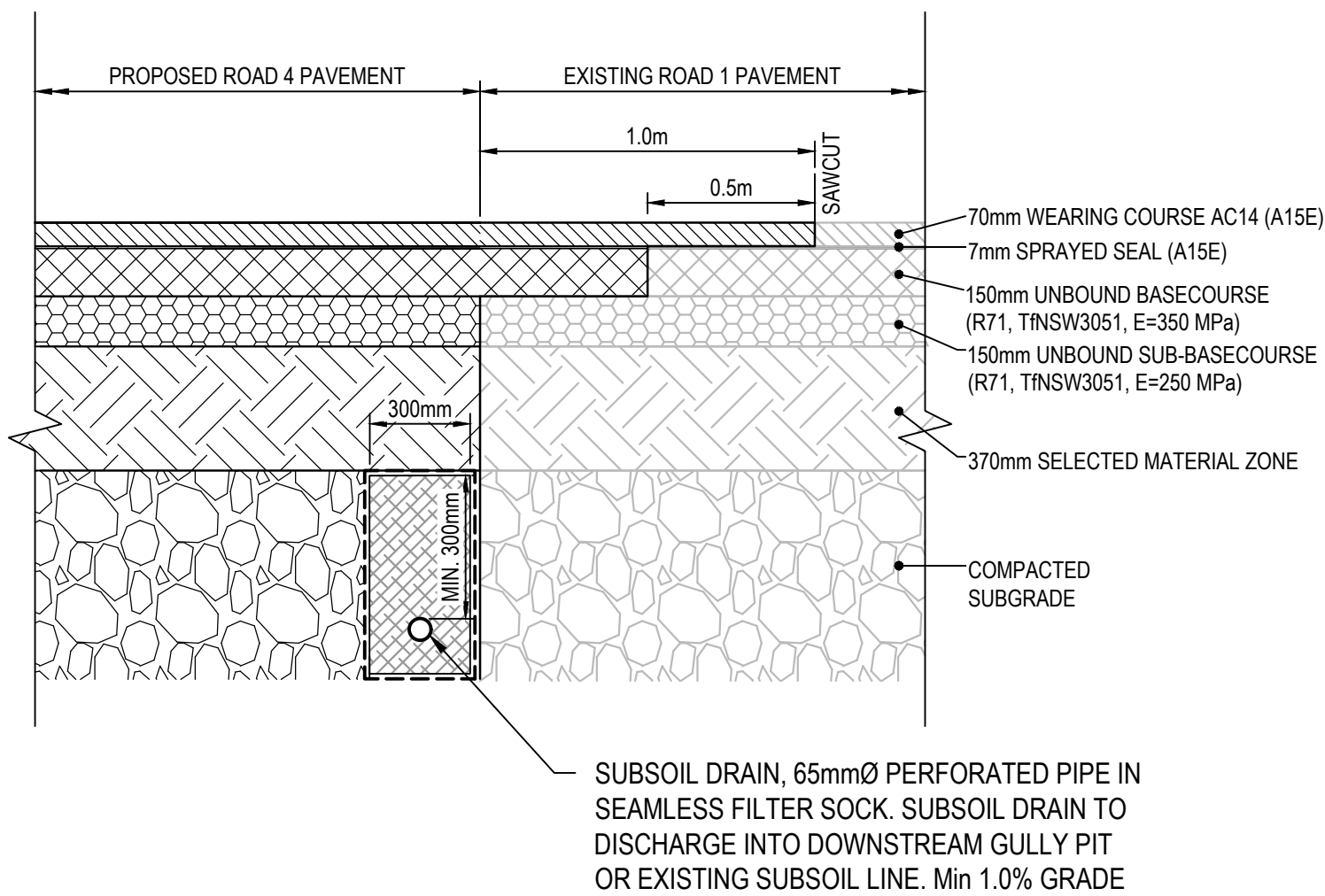
SCALE 1:10

DETAIL B  
N.T.S.



TYPICAL CATCH DRAIN DETAIL

SCALE 1:20



PAVEMENT INTERFACE DETAIL

SCALE 1:10

- NOTE
- DOWEL BARS ARE TO BE PLAIN ROUND STEEL BARS OF GRADE 250N AND 450mm LONG PLACED AT 300mm CENTRES.
  - MORE THAN HALF OF THE DOWEL SHOULD BE COATED WITH DEBONDING AGENT TO ENSURE EFFECTIVE DEBONDING FROM THE CONCRETE ON THAT SIDE OF THE JOINT.

DOWELLED EXPANSION JOINT (DEJ)

SCALE 1:10

TABLE A	
SLAB THICKNESS	DOWEL DIA.
125<D≤160	24
160<D≤200	28
200<D≤250	32
D>250	36

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23

Bar Scales	0 100 200 400 600 800 1000mm
1 : 10 @ A1	1 : 20 @ A3
0 500 1000 1500 2000mm	
1 : 20 @ A1	1 : 40 @ A3
0 1 2 3 4 5m	
1 : 50 @ A1	1 : 100 @ A3
0 2 4 6 8 10m	
1 : 100 @ A1	1 : 200 @ A3

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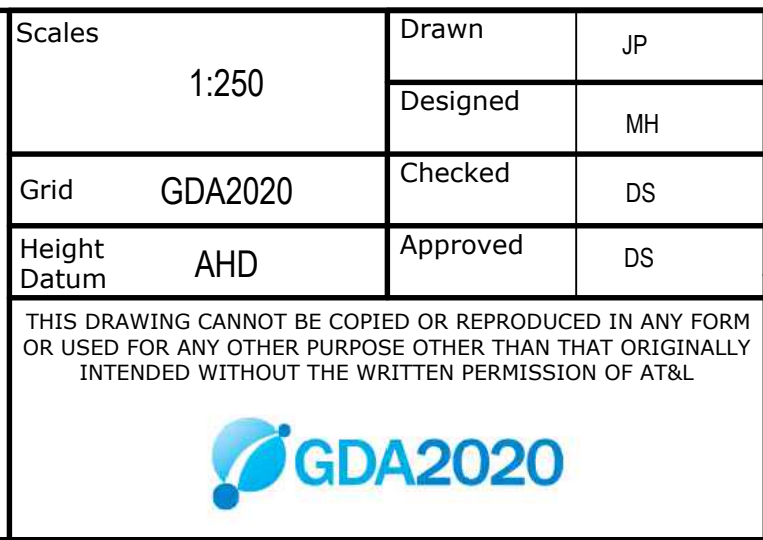
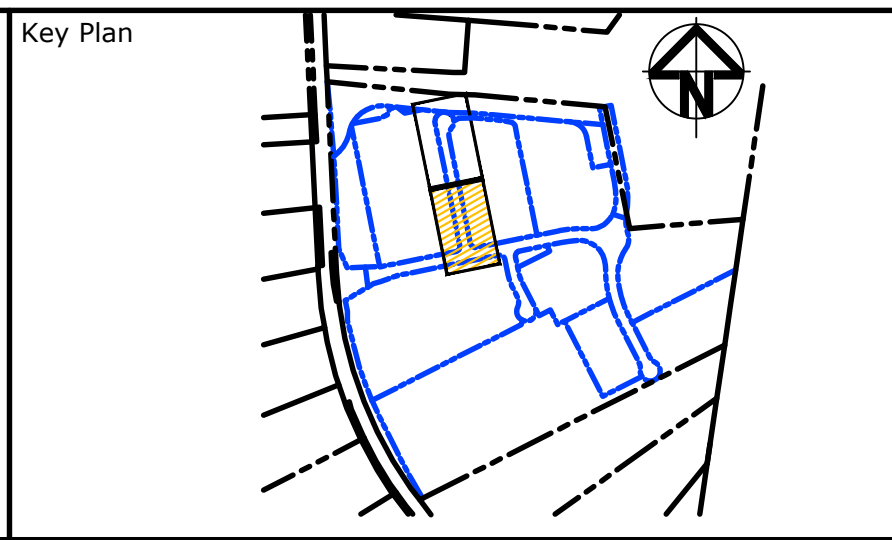
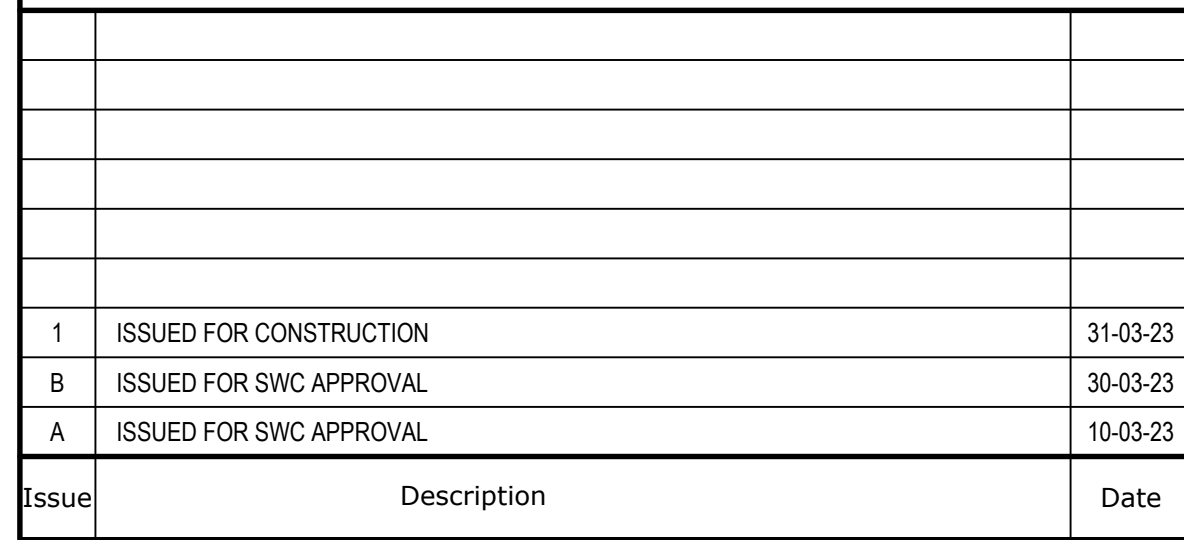


Scales	AS SHOWN	Drawn	MH
Grid	GDA2020	Designed	MH
Height Datum	AHD	Checked	DS
		Approved	DS


Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03
Title	TYPICAL DETAILS SHEET 2

Civil Engineers and Project Managers	
<b>at&amp;l</b> Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR CONSTRUCTION
Project - Drawing No.	18-596-C9016
Issue	1





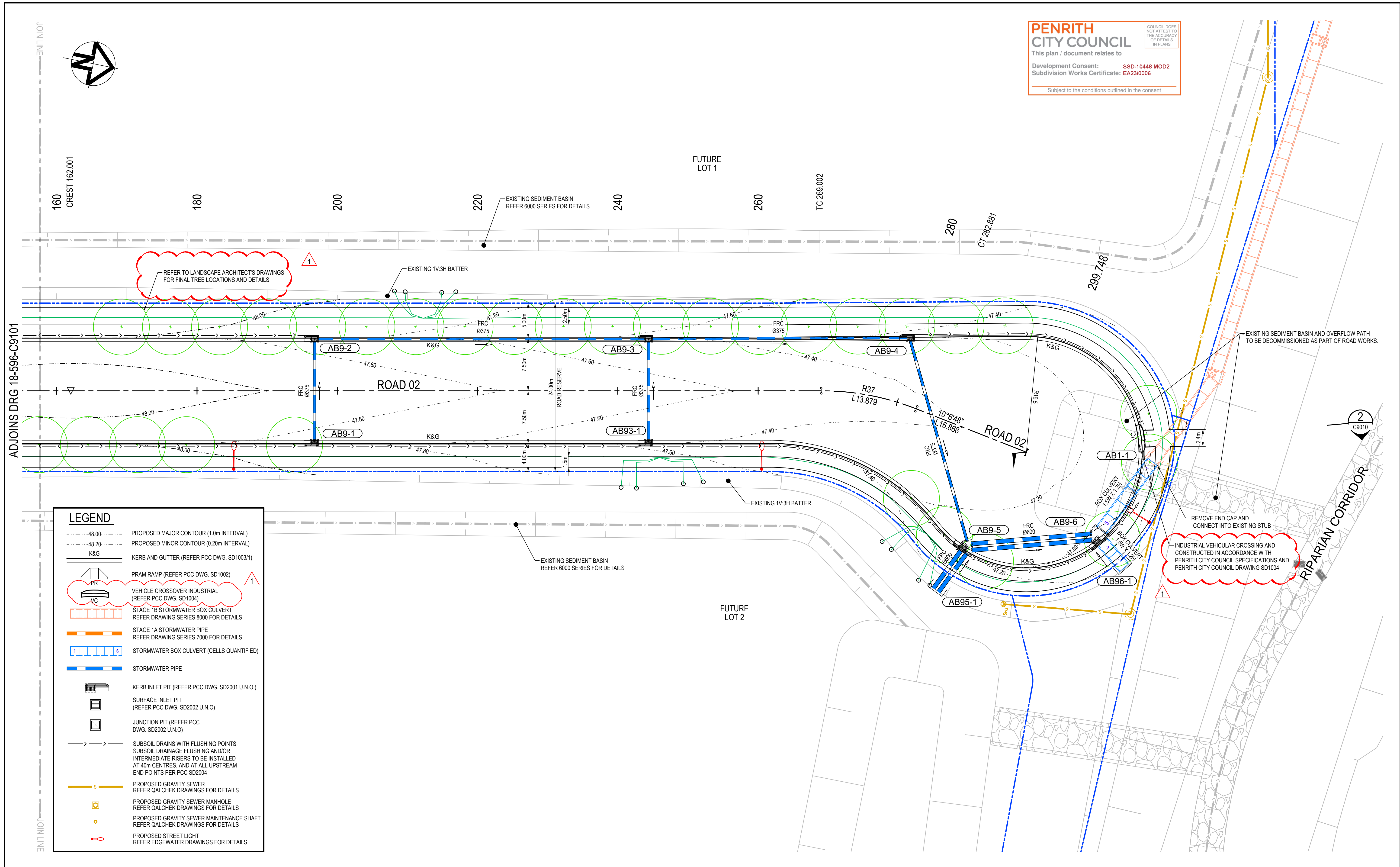
Civil Engineers and Project Managers




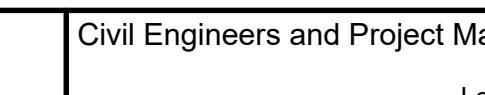



Level 7, 153 Walker Street  
North Sydney NSW 2060  
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[www.atl.net.au](http://www.atl.net.au)  
[info@atl.net.au](mailto:info@atl.net.au)

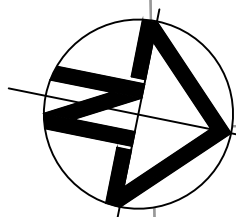
<p>Status</p> <p><b>FOR CONSTRUCTION</b></p> <p>Project - Drawing No.</p> <p><b>18-596-C9101</b></p>	<p><b>A1</b></p> <p>Issue</p> <p><b>1</b></p>
--	---





			Bar Scales	Key Plan	Client	Scales	Drawn	Project	Civil Engineers and Project Managers	
						1:250	JP	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03	 <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</div>	
						Grid GDA2020	Designed MH			
						Height Datum AHD	Checked DS	Title ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2	Status FOR CONSTRUCTION	A1
						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			Project - Drawing No. 18-596-C9102	Issue 1
										
1	ISSUED FOR CONSTRUCTION	31-03-23								
B	ISSUED FOR SWC APPROVAL	16-03-23								
A	ISSUED FOR SWC APPROVAL	10-03-23								
Issue	Description	Date								





260

280

300

320

340

360

ROAD 02

ROAD 01

0.000

78°37'10"

L417.737

00.84

0.000

78°37'10"

L417.737

00.84

20

SAG 29.041

40

60

80

100

120

140

160

FUTURE LOT 1

FUTURE LOT 2

ROAD 02

348°37'18"

L269.002

ADJOINS DRG 18-596-C9106

JOIN LINE

**PENRITH**  
**CITY COUNCIL**  
This plan / document relates to  
Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**  
Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

CONTROL LINE ROAD 2 - SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
IP 1	0.000	295005.705	6253091.879	47.863	348°37'17.95"			
TC	269.002	294952.634	6253355.594	47.605	348°37'17.95"			
IP 2	275.941	294951.249	6253362.478	47.564		R = 37.000	13.879	21°29'29.89"
CT	282.881	294952.482	6253369.391	47.522	10°06'47.84"			
IP 3	299.748	294955.444	6253385.996	47.421	10°06'47.84"			

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date

Bar Scales

0

5

10

15

20

25m

1 : 250 @ A1    1 : 500 @ A3

Key Plan

Client

Scales

1:250

Grid

GDA2020

Height Datum

AHD

Drawn

JP

Designed

MH

Checked

DS

Approved

DS

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Project

ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title

ROAD 2  
CONTROL LINE SETOUT  
PLAN  
SHEET 1

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status

FOR CONSTRUCTION

A1

Project - Drawing No.

18-596-C9105

Issue

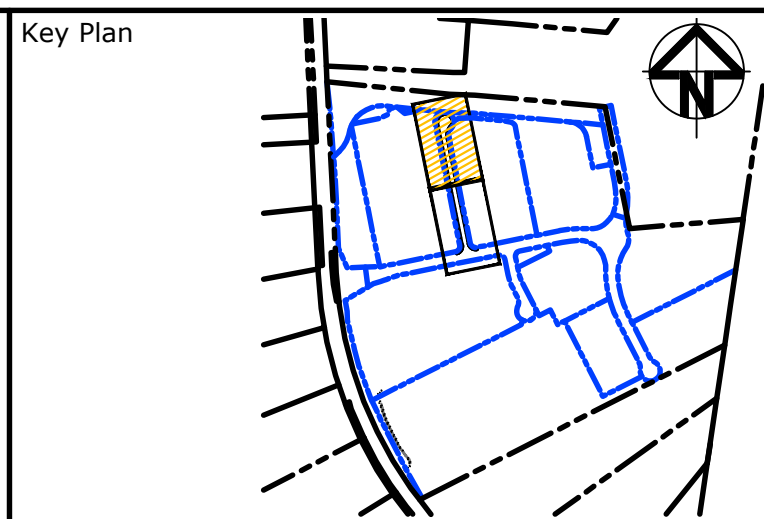
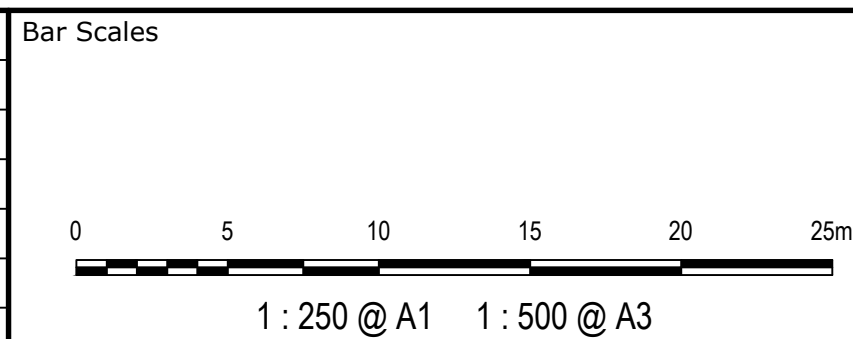
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CONTROL LINE ROAD 2 - SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295005.705	6253091.879	47.863	348°37'17.95"			
TC	269.002	294952.634	6253355.594	47.605	348°37'17.95"			
IP 2	275.941	294951.249	6253362.478	47.564		R = 37.000	13.879	21°29'29.89"
CT	282.881	294952.482	6253369.391	47.522	10°06'47.84"			
IP 3	299.748	294955.444	6253385.996	47.421	10°06'47.84"			

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date




Scales  1:250	Drawn	JP
	Designed	MH
Grid	GDA2020	Checked DS
Height Datum	AHD	Approved DS

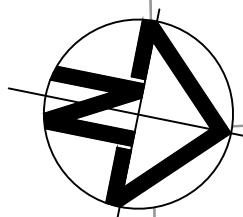
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OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY  
INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

 **GDA2020**

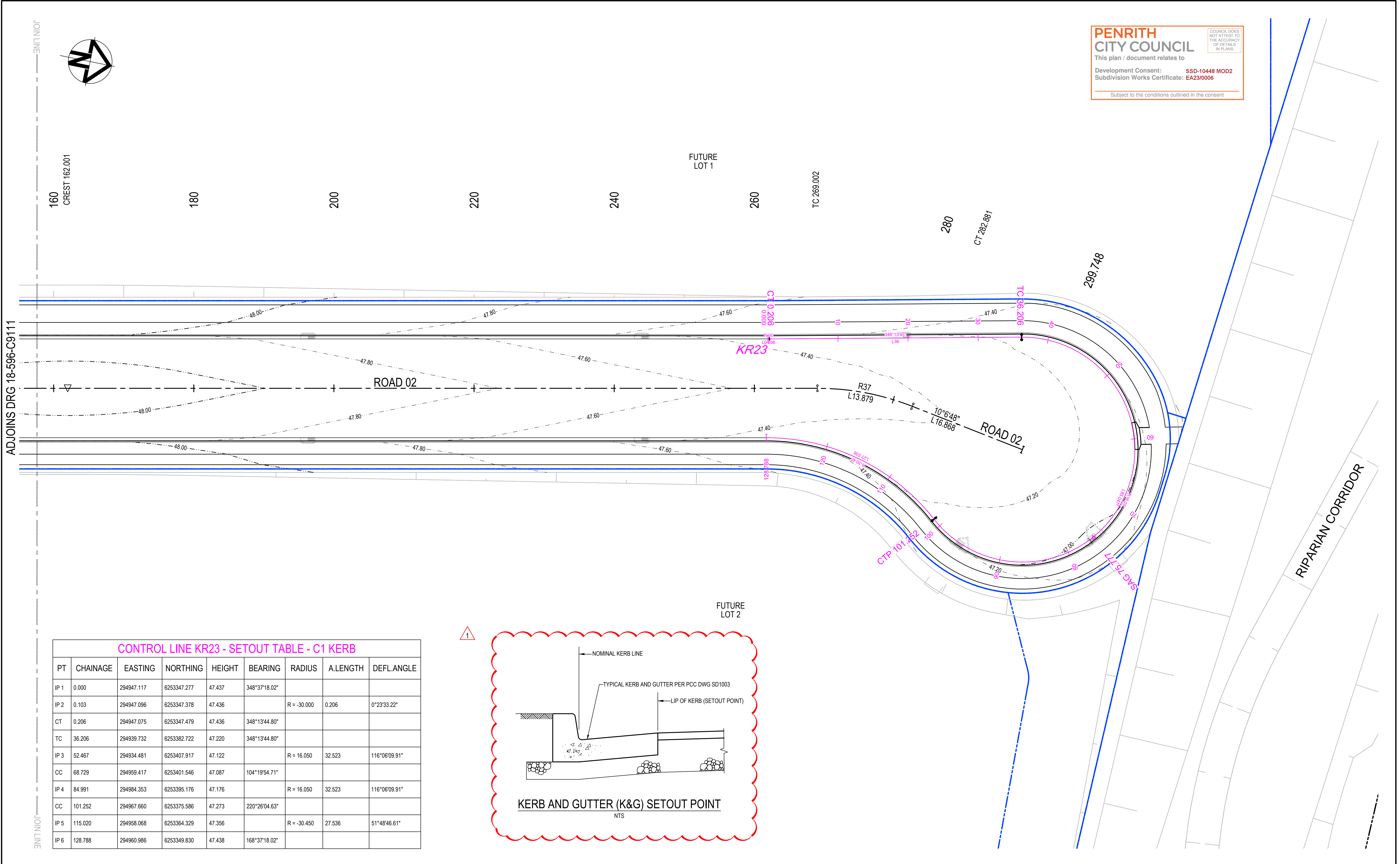
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03
Title	ROAD 2 CONTROL LINE SETOUT PLAN SHEET 2

		<p>Civil Engineers and Project Managers</p> <p>Level 7, 153 Walker Street North Sydney NSW 2060</p> <p>ABN 96 130 882 405</p> <p>Tel: 02 9439 1777</p> <p>Fax: 02 9923 1055</p> <p><a href="http://www.atl.net.au">www.atl.net.au</a> <a href="mailto:info@atl.net.au">info@atl.net.au</a></p>
<p>Status</p> <p><b>FOR CONSTRUCTION</b></p>	<p><b>A1</b></p>	
<p>Project - Drawing No.</p> <p><b>18-596-C9106</b></p>		<p>Issue</p> <p><b>1</b></p>









PENRITH

CITY COUNCIL

This plan / document relates to

Development Consent: **SSD-10448 MOD2**

Subdivision Works Certificate: **EA23/0006**

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

CONTROL LINE KR23 - SETOUT TABLE - C1 KERB

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RADIUS	A.LENGTH	DEFL.ANGLE
IP 1	0.000	294947.117	6253347.277	47.437	348°37'18.02"			
IP 2	0.103	294947.096	6253347.378	47.436		R = -30.000	0.206	0°23'33.22"
CT	0.206	294947.075	6253347.479	47.436	348°13'44.80"			
TC	36.206	294939.732	6253382.722	47.220	348°13'44.80"			
IP 3	52.467	294934.481	6253407.917	47.122		R = 16.050	32.523	116°06'09.91"
CC	68.729	294959.417	6253401.546	47.087	104°19'54.71"			
IP 4	84.991	294984.353	6253395.176	47.176		R = 16.050	32.523	116°06'09.91"
CC	101.252	294967.660	6253375.586	47.273	220°26'04.63"			
IP 5	115.020	294958.068	6253364.329	47.356		R = -30.450	27.536	51°48'46.61"
IP 6	128.788	294960.986	6253349.830	47.438	168°37'18.02"			

1

ISSUED FOR CONSTRUCTION

31-03-23

B

ISSUED FOR SWC APPROVAL

30-03-23

A

ISSUED FOR SWC APPROVAL

10-03-23

Issue

Description

Date

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Key Plan

Client

Scales

1:250

Grid

GDA2020

Height Datum

AHD

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Drawn

JP

Designed

MH

Checked

DS

Approved

DS

Project

ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title

CUL-DE-SAC & KERB RETURN  
CONTROL LINE SETOUT  
PLAN  
SHEET 2

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status

FOR CONSTRUCTION

A1

Project - Drawing No.

18-596-C9112

Issue

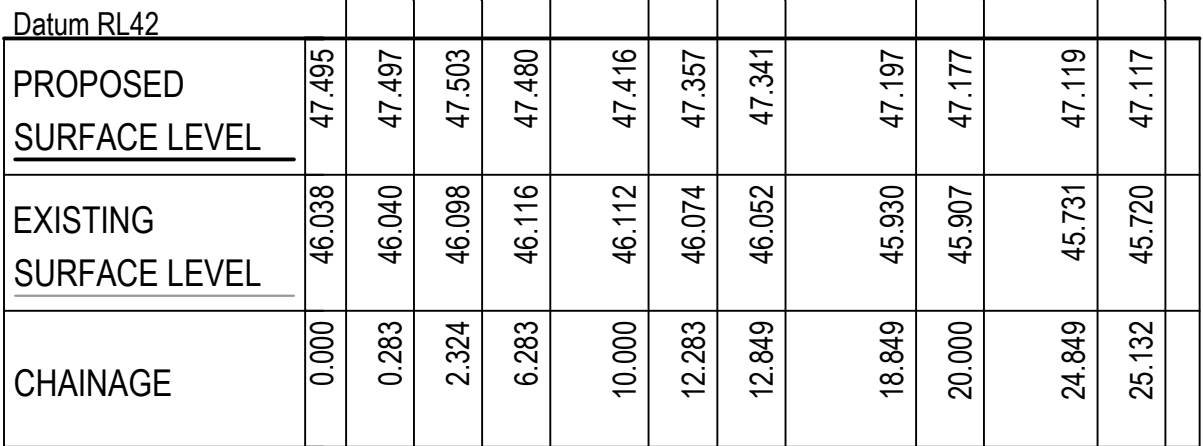
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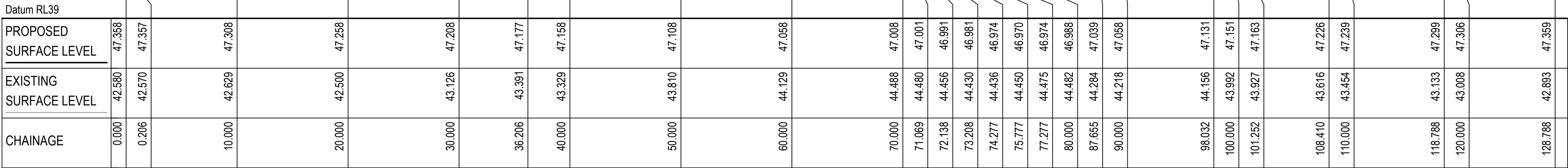




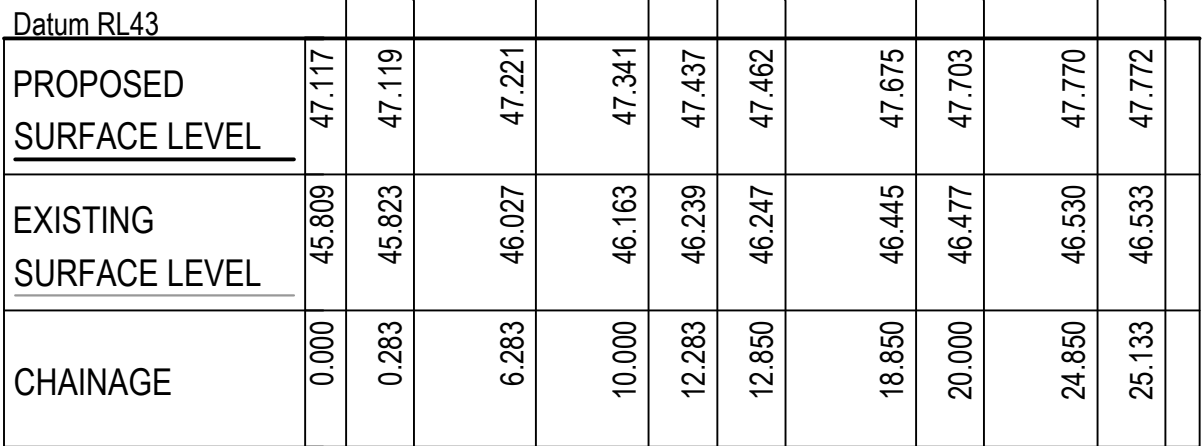




SCALE 1:250 HORI.  
1:50 VERT.

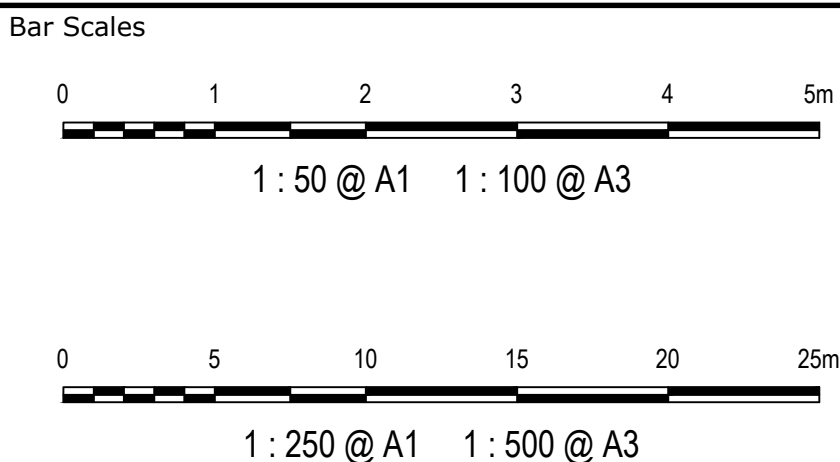


KR23 LONGITUDINAL SECTION  
 SCALE 1:250 HORI.  
 1:50 VERT.



SCALE 1:250 HORI.  
1:50 VERT.

100mm on Original



Key Plan
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Client



	Scales
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1:500 (H)  
1:50 (V)

Grid	GDA2020
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Height	AHD
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OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY  
INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L



Drawn
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Designe

Checked
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	Approve
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Project	
---------	--

ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title
-------

### CUL-DE-SAC AND KERB RETURN LONGITUDINAL SECTIONS

Civil Engineers and Project Managers



Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
[www.atl.net.au](http://www.atl.net.au)  
[info@atl.net.au](mailto:info@atl.net.au)

Status

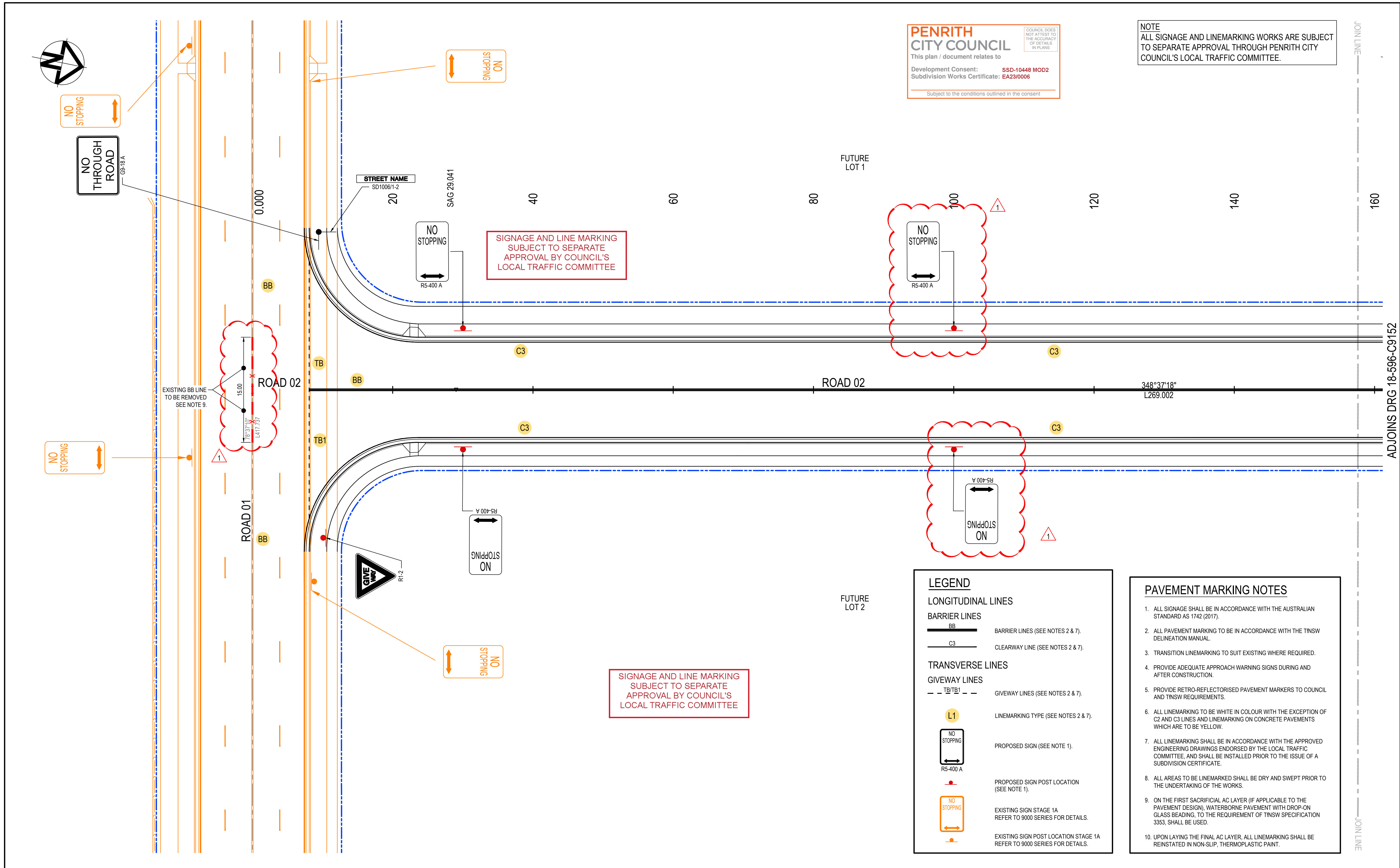
FOR CONSTRUCTION

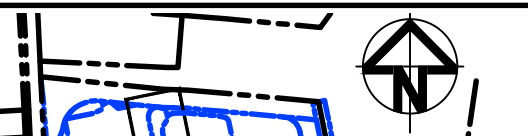



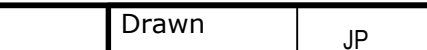
Project - Drawing No.

24

Issue	
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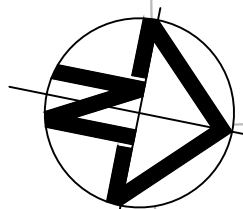


			<b>Bar Scales</b>		<b>Key Plan</b> 	<b>Client</b> 	<b>Scales</b> 1:250	<b>Drawn</b> JP	<b>Project</b> ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03	<b>Civil Engineers and Project Managers</b>  Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
			 0 5 10 15 20 25m 1 : 250 @ A1 1 : 500 @ A3							
			<b>Height Datum</b> AHD	<b>Approved</b> DS	<small>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&amp;I</small> 	<b>Project - Drawing No.</b> 18-596-C9151	<b>Issue</b> 1			









260

280

300

320

340

360

ROAD 01

ROAD 02

ROAD 02

ADJOINS DRG 18-596-C9162

PAVEMENT LEGEND

ROAD 2 PAVEMENT

70mm THICKNESS AC14 (C450, E=2700 Mpa) ON  
7mm SPRAYED SEAL (CL170)  
150mm THICKNESS UNBOUND BASECOURSE (R71, TNSW3051, E=350MPa) ON  
150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TNSW3051, E=250MPa) ON  
370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON  
COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3%  
- MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

CUL-DE-SAC PAVEMENT

75mm THICKNESS AC14 (A15E BINDER (SBS PMB MODIFIED BINDER), E = 2000 MPa) on  
7mm SPRAYED SEAL (CL170) ON  
150mm THICKNESS UNBOUND BASECOURSE (R71, TNSW3051, E=350MPa) ON  
150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TNSW3051, E=250MPa) ON  
370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON  
COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3%  
- MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

FOOTPATH PAVEMENT

125mm THICKNESS CONCRETE WITH SL72 (40mm PLACED CENTRALLY) ON  
30mm THICKNESS SAND BEDDING OR GRANULAR BASE ON  
COMPACTED SUBGRADE.  
(REFER TO PENRITH CITY COUNCIL STANDARD DWG SD1001 FOR JOINTING DETAILS).  
SLIP-FORM CYCLE WAYS MUST BE CONSTRUCTED IN  
ACCORDANCE WITH PENRITH CITY COUNCIL  
ENGINEERING CONSTRUCTION SPECIFICATION.

LANDSCAPED TREATMENT

REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR  
DETAILS.

LANDSCAPED TEMPORARY BATTER

REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR  
DETAILS. ALL BATTERS TO BE TREATED WITH POLYMER  
BASED SEDIMENT CONTROL PRODUCT

PAVEMENT DESIGN CRITERIA:

ASSUMED ESA = 1.3x10<sup>7</sup>  
ASSUMED CBR = 3.0% ; CBR TO BE CONFIRMED ON SITE IN ACCORDANCE  
WITH COUNCIL SPECIFICATIONS  
IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS)

NOTES:

- REFER PSM3739-039L FOR PAVEMENT DESIGN DETAILS AND SPECIFICATIONS

- ALL PAVEMENT MATERIALS ARE TO SATISFY THE REQUIREMENTS OF THOSE  
STATED WITHIN THESE DRAWINGS AND PENRITH CITY COUNCIL'S  
SPECIFICATIONS, WHICHEVER IS GREATER.

- THE CONTRACTOR IS TO ARRANGE FOR SAMPLING OF THE SUBGRADE  
WITHIN ROADS, TO CONFIRM CBR AND PROVIDE A GEOTECHNICAL REPORT  
CONFIRMING THE PAVEMENT COMPOSITION IN COMPLIANCE WITH PCC'S  
SPECIFICATION, SUPPORTED BY NATA ACCREDITED TEST RESULTS.

- WHERE CBR RESULTS ARE LESS THAN 3% AND INSITU LIME STABILISATION IS  
REQUIRED, CBR SAMPLING IS TO BE COMPLETED POST INSITU LIME  
STABILISATION TO CONFIRM RESULTANT CBRS HAVE REACHED THE  
MINIMUM 3% REQUIREMENT. A GEOTECHNICAL REPORT, SUPPORTED BY  
NATA ACCREDITED TEST RESULTS SHALL BE PROVIDED FOR VALIDATION.

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date

Bar Scales
<div><div>0510152025m</div><div>1 : 250 @ A1 1 : 500 @ A3</div></div>

Key Plan

Client

Scales	1:250
Grid	GDA2020
Height Datum	AHD
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Drawn	JP
Designed	MH
Checked	DS
Approved	DS
Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03
Title	PAVEMENT PLAN  SHEET 1

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR CONSTRUCTION
Project - Drawing No.	18-596-C9161
Issue	1

PENRITH  
CITY COUNCIL

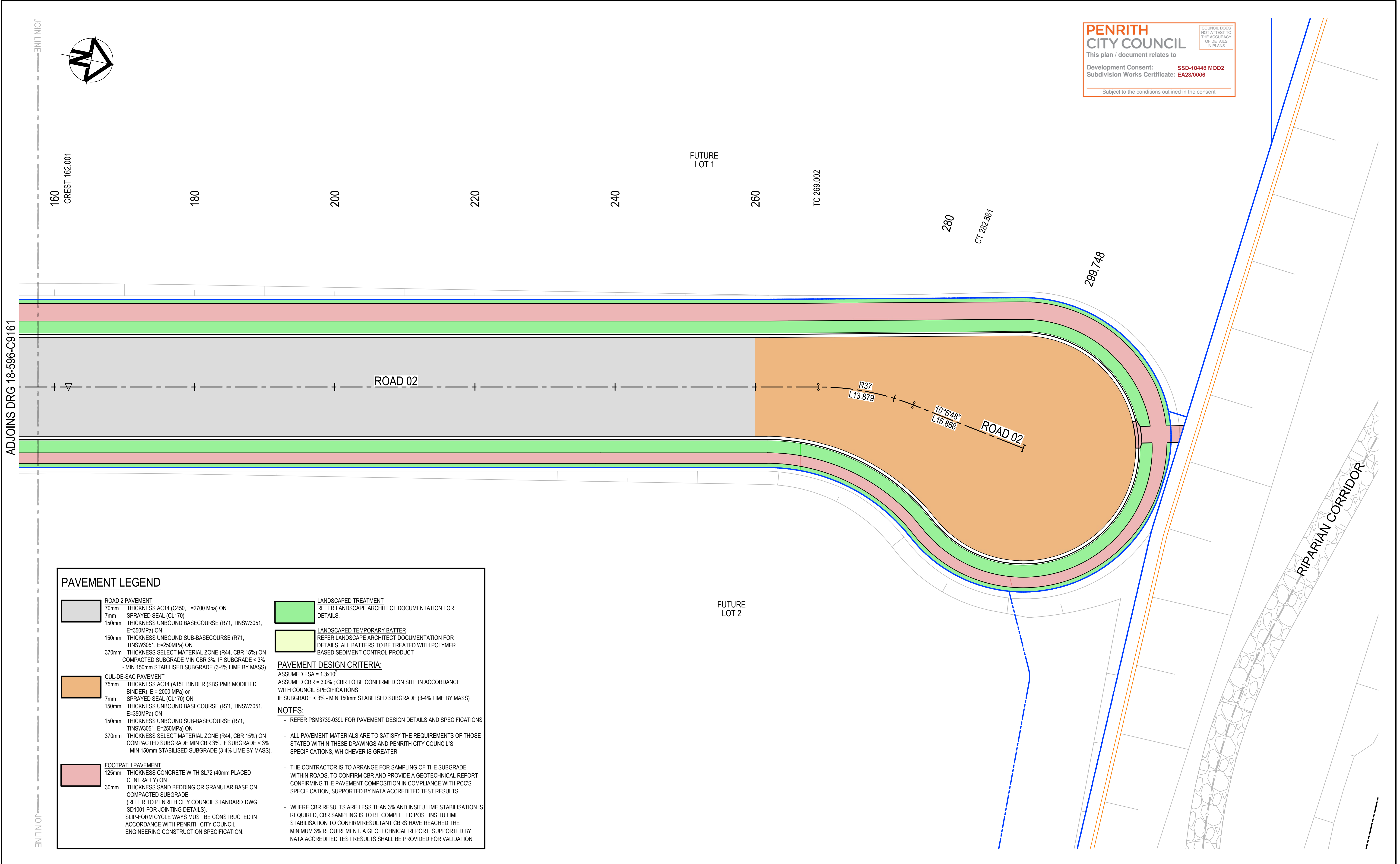
This plan / document relates to

Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**

Subject to the conditions outlined in the consent

COUNCIL DOES  
NOT ATTEST TO  
THE ACCURACY  
OF DETAILS  
IN PLANS





**PENRITH**  
CITY COUNCIL

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This plan / document relates to

Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**

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PAVEMENT LEGEND

- ROAD 2 PAVEMENT**  
70mm THICKNESS AC14 (C450, E=2700 Mpa) ON  
7mm SPRAYED SEAL (CL170)  
150mm THICKNESS UNBOUND BASECOURSE (R71, TINSW3051, E=350MPa) ON  
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125mm THICKNESS CONCRETE WITH SL72 (40mm PLACED CENTRALLY) ON  
30mm THICKNESS SAND BEDDING OR GRANULAR BASE ON  
COMPACTED SUBGRADE  
(REFER TO PENRITH CITY COUNCIL STANDARD DWG SD1001 FOR JOINTING DETAILS).  
SLIP-FORM CYCLE WAYS MUST BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL ENGINEERING CONSTRUCTION SPECIFICATION.
- LANDSCAPED TREATMENT**  
REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.
- LANDSCAPED TEMPORARY BATTER**  
REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS. ALL BATTERS TO BE TREATED WITH POLYMER BASED SEDIMENT CONTROL PRODUCT
- PAVEMENT DESIGN CRITERIA:**  
ASSUMED ESA = 1.3x10'  
ASSUMED CBR = 3.0% ; CBR TO BE CONFIRMED ON SITE IN ACCORDANCE WITH COUNCIL SPECIFICATIONS  
IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS)

**NOTES:**

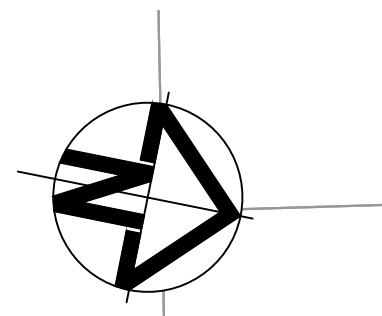
  - REFER PSM3739-039L FOR PAVEMENT DESIGN DETAILS AND SPECIFICATIONS
  - ALL PAVEMENT MATERIALS ARE TO SATISFY THE REQUIREMENTS OF THOSE STATED WITHIN THESE DRAWINGS AND PENRITH CITY COUNCIL'S SPECIFICATIONS, WHICHEVER IS GREATER.
  - THE CONTRACTOR IS TO ARRANGE FOR SAMPLING OF THE SUBGRADE WITHIN ROADS, TO CONFIRM CBR AND PROVIDE A GEOTECHNICAL REPORT CONFIRMING THE PAVEMENT COMPOSITION IN COMPLIANCE WITH PCC'S SPECIFICATION, SUPPORTED BY NATA ACCREDITED TEST RESULTS.
  - WHERE CBR RESULTS ARE LESS THAN 3% AND INSITU LIME STABILISATION IS REQUIRED, CBR SAMPLING IS TO BE COMPLETED POST INSITU LIME STABILISATION TO CONFIRM RESULTANT CBRS HAVE REACHED THE MINIMUM 3% REQUIREMENT. A GEOTECHNICAL REPORT, SUPPORTED BY NATA ACCREDITED TEST RESULTS SHALL BE PROVIDED FOR VALIDATION.

<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>1</td><td>ISSUED FOR CONSTRUCTION</td><td>31-03-23</td></tr><tr><td>B</td><td>ISSUED FOR SWC APPROVAL</td><td>30-03-23</td></tr><tr><td>A</td><td>ISSUED FOR SWC APPROVAL</td><td>10-03-23</td></tr><tr><td>Issue</td><td>Description</td><td>Date</td></tr></table>																			1	ISSUED FOR CONSTRUCTION	31-03-23	B	ISSUED FOR SWC APPROVAL	30-03-23	A	ISSUED FOR SWC APPROVAL	10-03-23	Issue	Description	Date	<p>Bar Scales</p> <p>0 5 10 15 20 25m</p> <p>1 : 250 @ A1 1 : 500 @ A3</p>	<p>Key Plan</p>	<p>Client</p>	<table><tr><td>Scales</td><td>1:250</td><td>Drawn</td><td>JP</td></tr><tr><td></td><td></td><td>Designed</td><td>MH</td></tr><tr><td>Grid</td><td>GDA2020</td><td>Checked</td><td>DS</td></tr><tr><td>Height Datum</td><td>AHD</td><td>Approved</td><td>DS</td></tr><tr><td colspan="4">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&amp;L</td></tr><tr><td colspan="4"></td></tr></table>	Scales	1:250	Drawn	JP			Designed	MH	Grid	GDA2020	Checked	DS	Height Datum	AHD	Approved	DS	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								<table><tr><td colspan="2">Project</td><td colspan="2">ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03</td></tr><tr><td colspan="2">Title</td><td colspan="2">PAVEMENT PLAN</td></tr><tr><td colspan="2"></td><td colspan="2">SHEET 2</td></tr></table>	Project		ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03		Title		PAVEMENT PLAN				SHEET 2		<table><tr><td colspan="2">Civil Engineers and Project Managers</td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2">Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</td></tr><tr><td>Status</td><td>FOR CONSTRUCTION</td></tr><tr><td>Project - Drawing No.</td><td>18-596-C9162</td></tr><tr><td>Issue</td><td>1</td></tr></table>	Civil Engineers and Project Managers				Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		Status	FOR CONSTRUCTION	Project - Drawing No.	18-596-C9162	Issue	1
1	ISSUED FOR CONSTRUCTION	31-03-23																																																																																		
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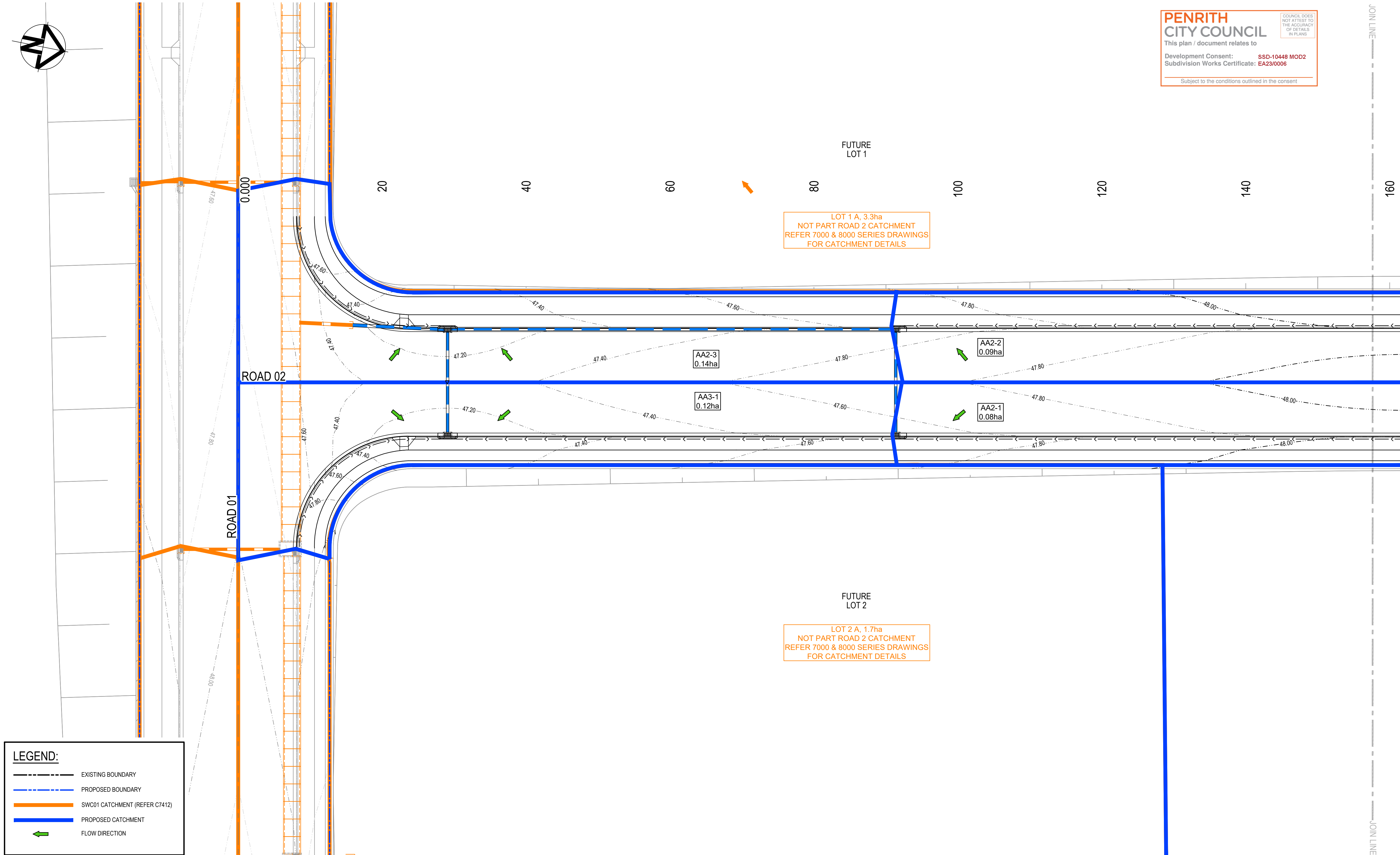






**PENRITH**  
**CITY COUNCIL**  
This plan / document relates to  
Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**  
Subject to the conditions outlined in the consent

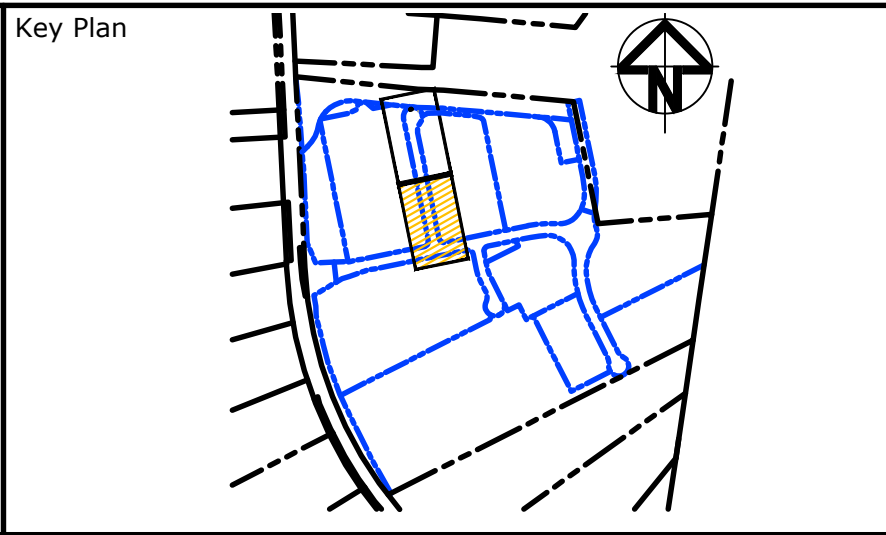
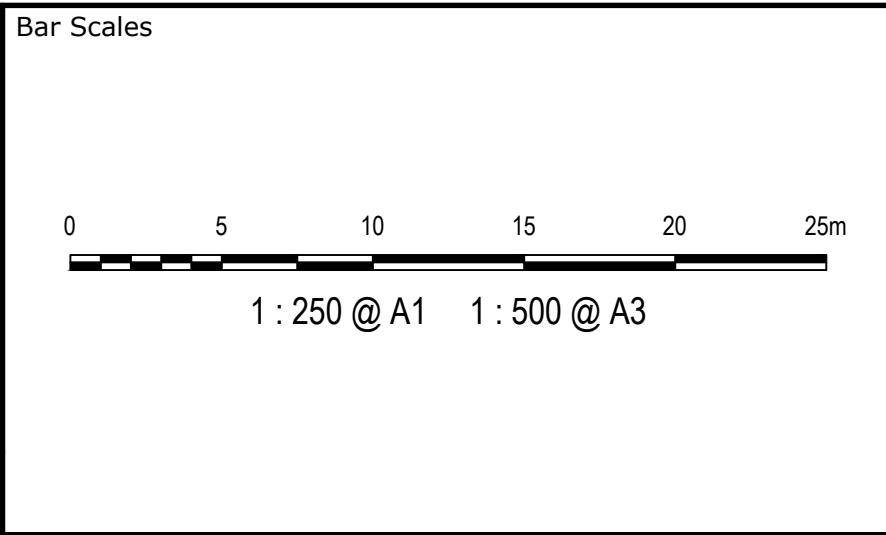
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS



**LEGEND:**

- EXISTING BOUNDARY
- - - PROPOSED BOUNDARY
- SWC01 CATCHMENT (REFER C7412)
- PROPOSED CATCHMENT
- ← FLOW DIRECTION

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date



Client

Scales	1:250	Drawn	JP
		Designed	MH
Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS
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Project  
ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title  
STORMWATER DRAINAGE  
CATCHMENT PLAN  
(POST-DEVELOPED)  
SHEET 1

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.ati.net.au  
info@ati.net.au

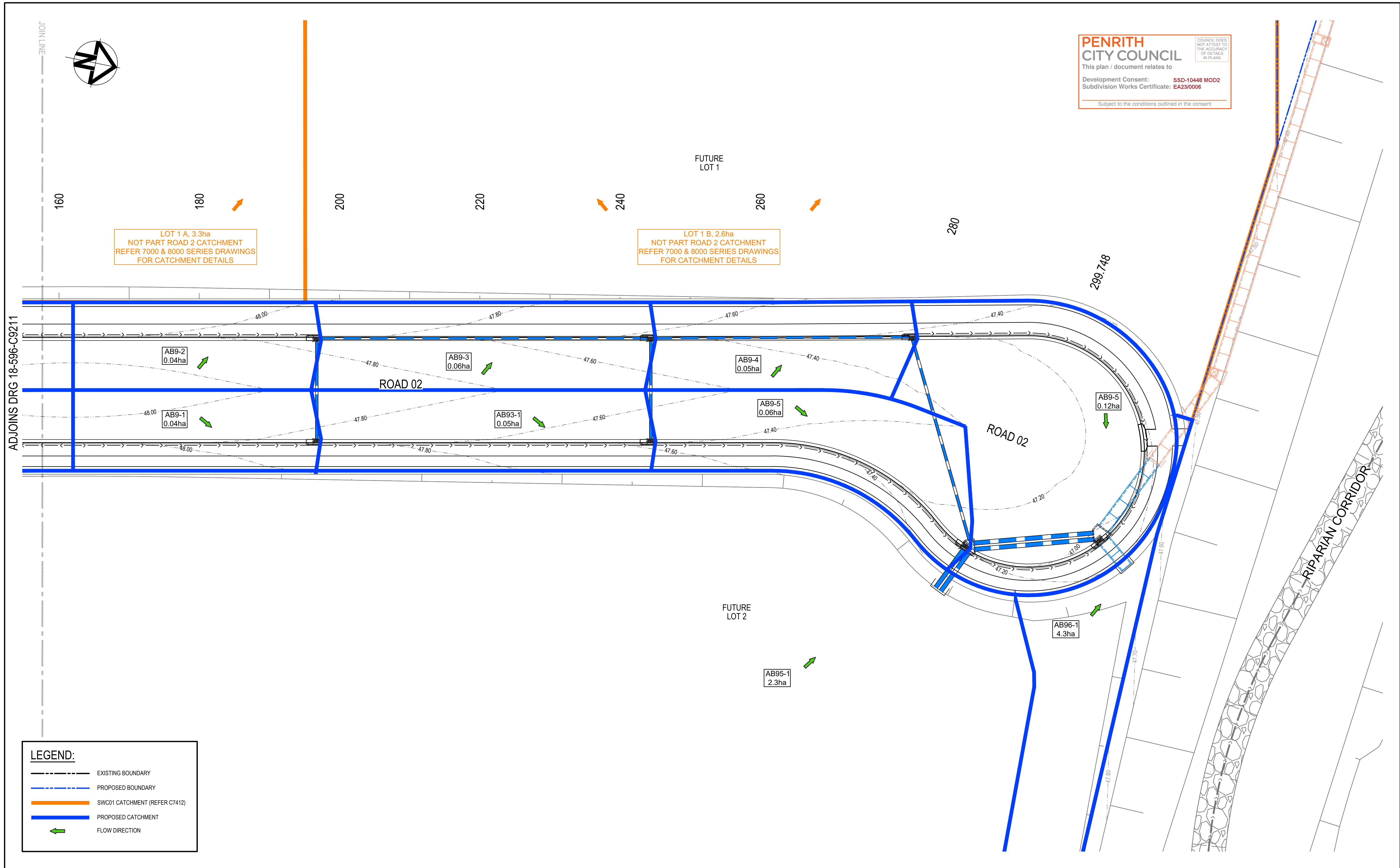
Status  
FOR CONSTRUCTION

A1

Project - Drawing No.  
18-596-C9211

Issue  
1





		Bar Scales		Key Plan		Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
		0 5 10 15 20 25m		1 : 250 @ A1 1 : 500 @ A3		mirvac		1:250		JP		ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03		Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
								GDA2020		Designed		MH		at&l	
								AHD		Checked		DS		Status	
								Height Datum		Approved		DS		FOR CONSTRUCTION	
								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				Title		A1	
								GDA2020				STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED) SHEET 2		Project - Drawing No.	
												18-596-C9212		Issue	
														1	







			<div>Bar Scales</div> <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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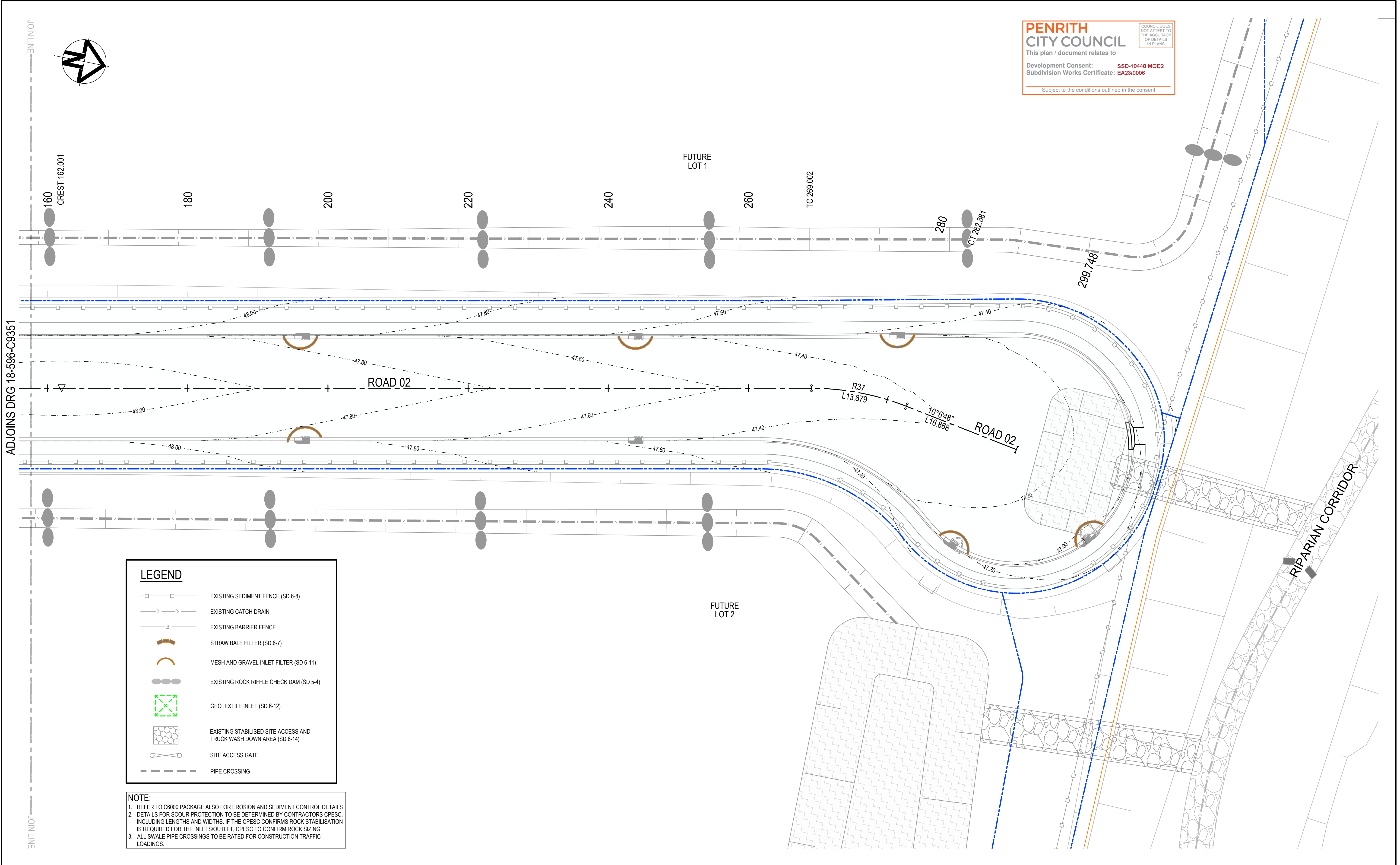




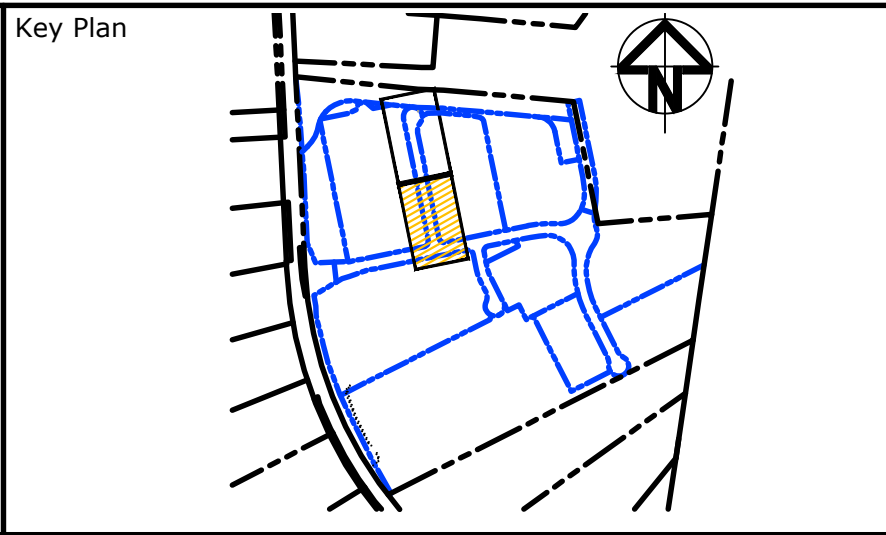
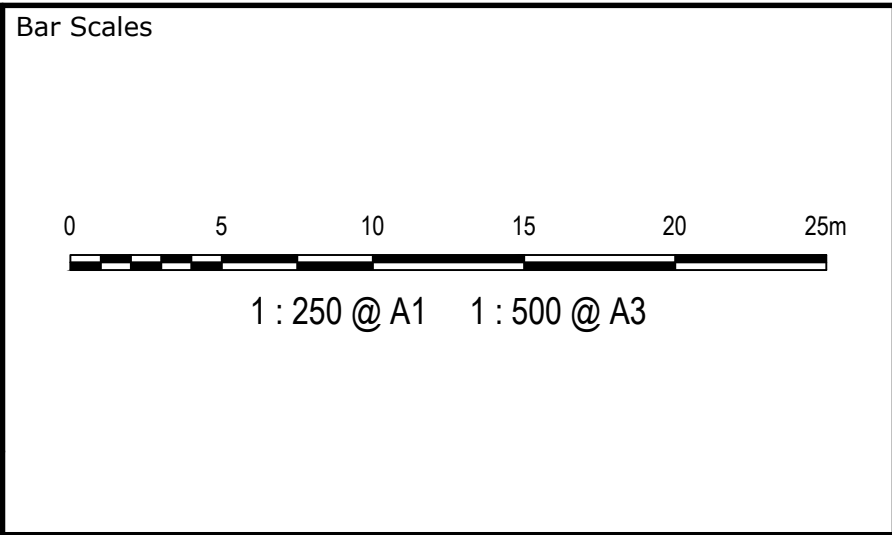








1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date

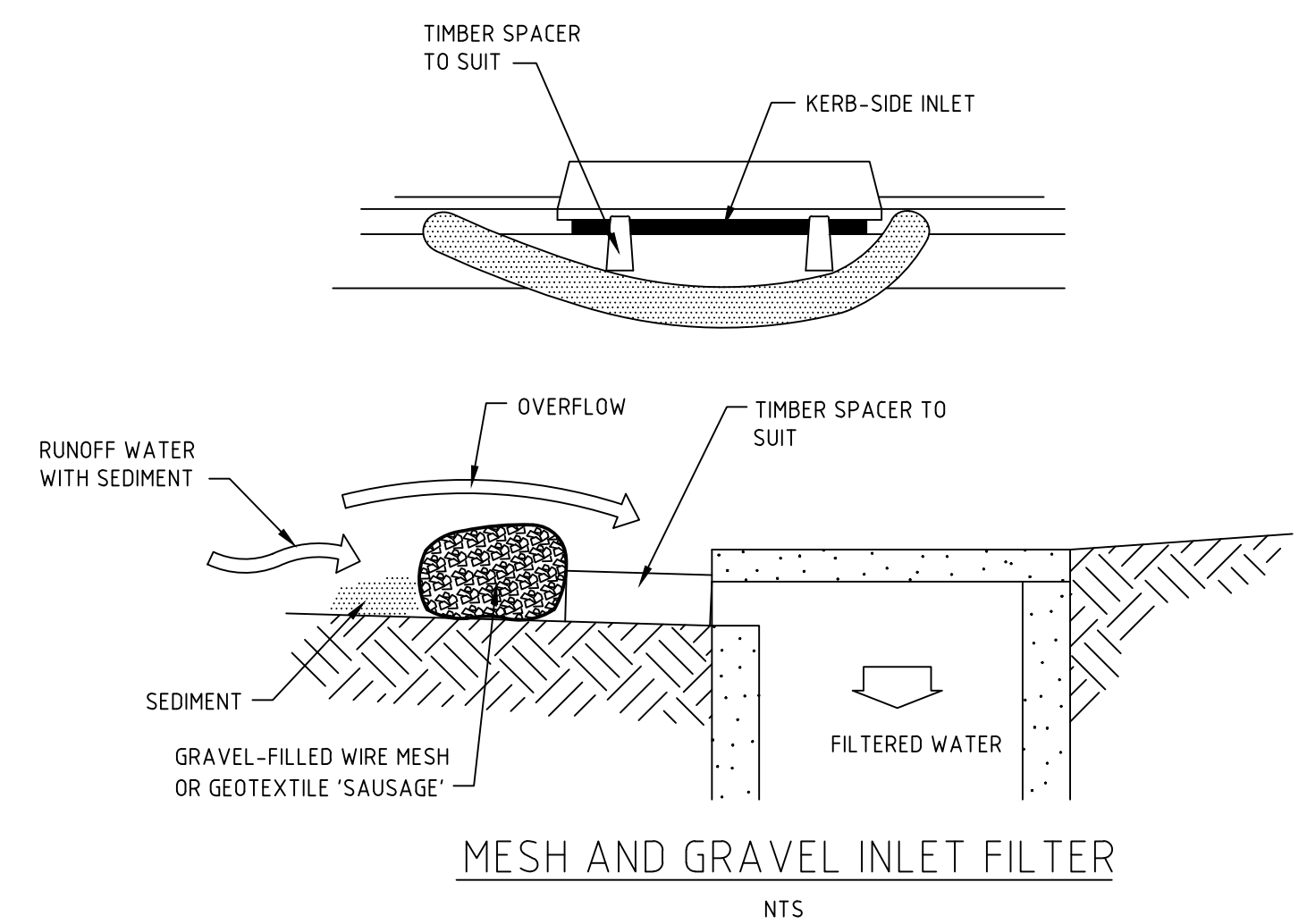


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Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS
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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03
Title	EROSION AND SEDIMENT CONTROL PLAN SHEET 2

Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR CONSTRUCTION
Project - Drawing No.	18-596-C9352
Issue	1





1	ISSUED FOR CONSTRUCTION	31-03-23
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A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date


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Scales	AS SHOWN	Drawn	JP
		Designed	MH
Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS



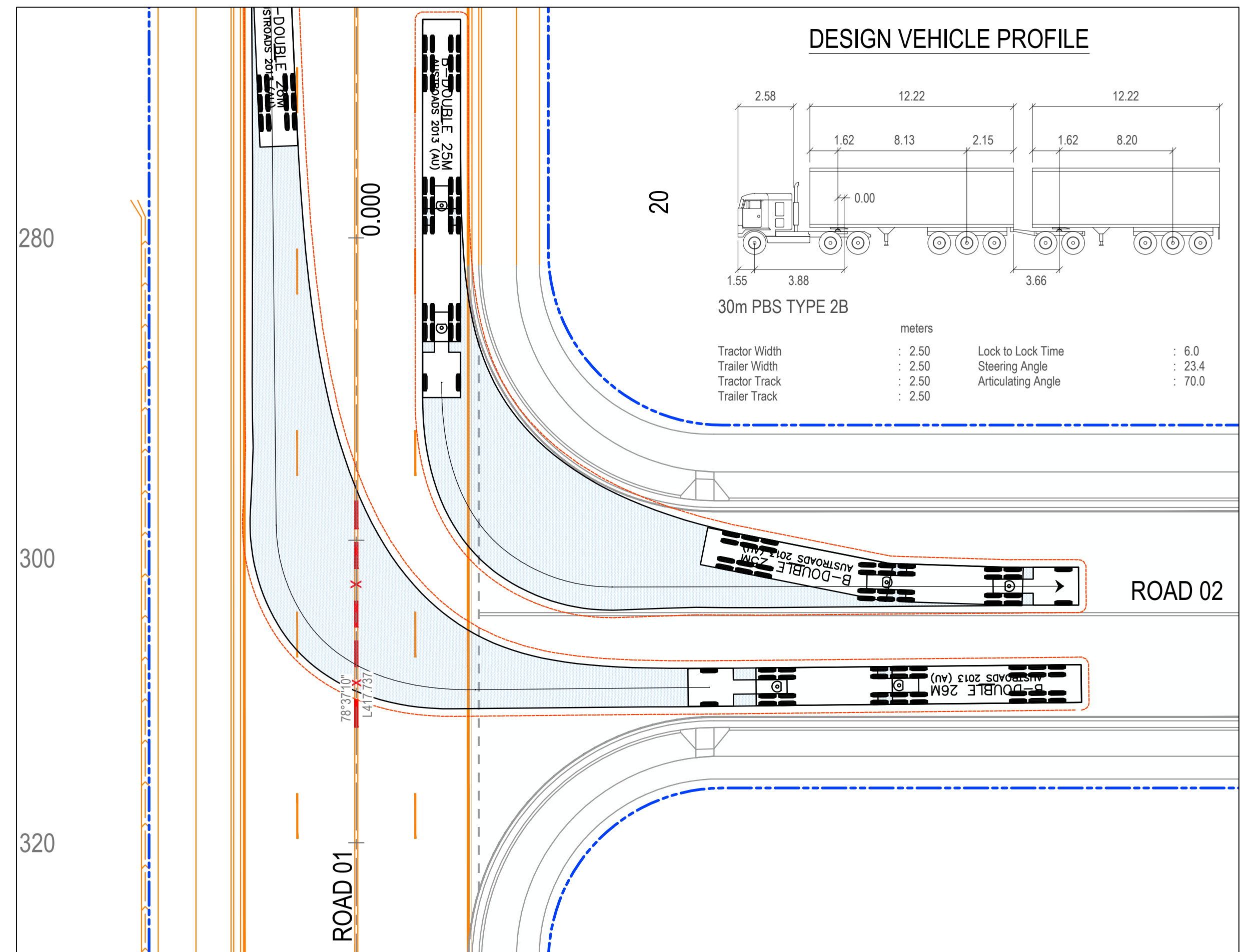
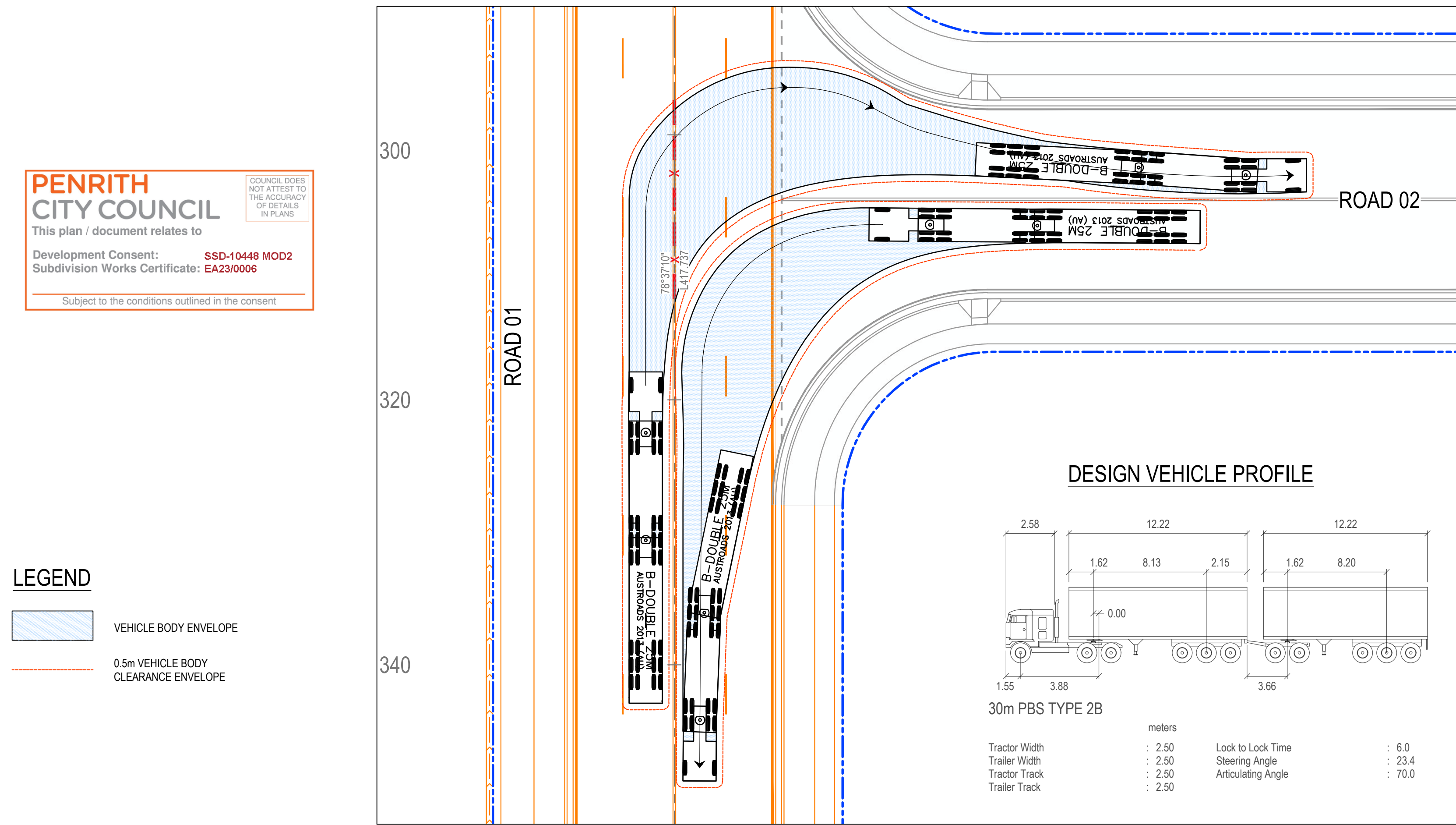
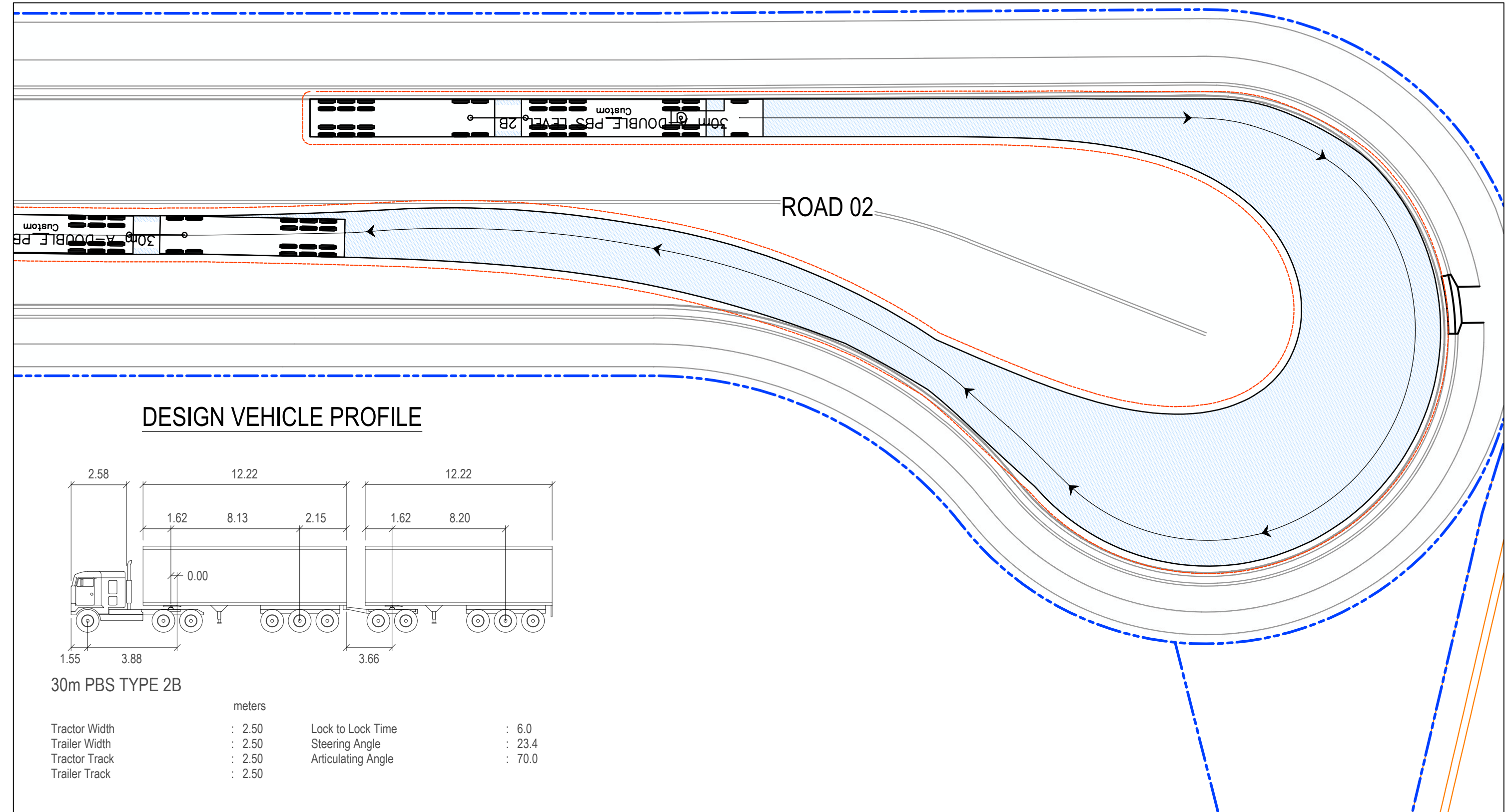
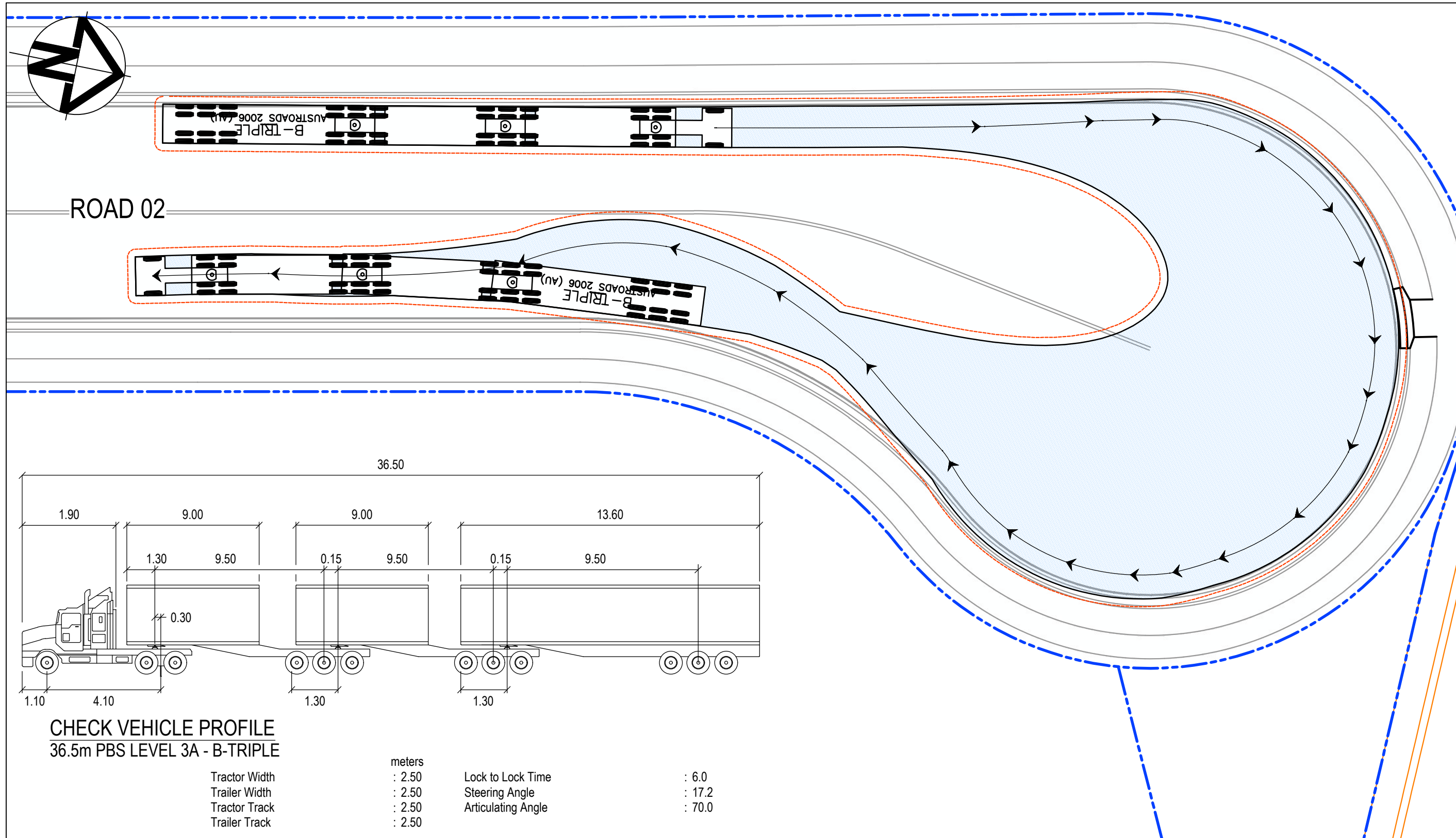
Title	EROSION AND SEDIMENT CONTROL DETAILS
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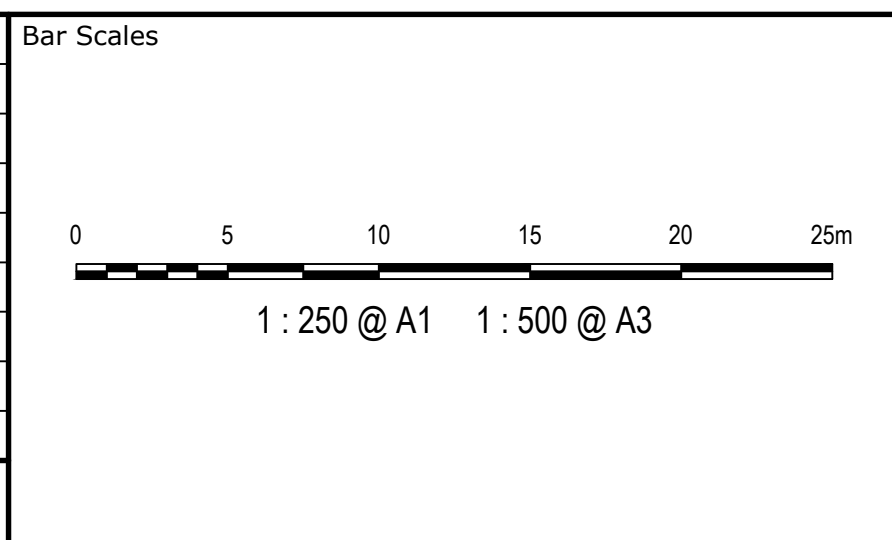
**Civil Engineers and Project Managers**  
Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
[www.atl.net.au](http://www.atl.net.au)  
[info@atl.net.au](mailto:info@atl.net.au)

<b>Status</b> <b>FOR CONSTRUCTION</b>	<b>A1</b>
<b>Project - Drawing No.</b> <b>18-596-C9360</b>	<b>Issue</b> <b>1</b>





1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	24-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date



Key Plan



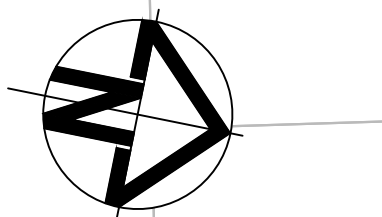
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Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS
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Project  
**ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03**

Title  
**VEHICLE TURN PATH  
PLAN  
SHEET 1**

Civil Engineers and Project Managers	
 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status <b>FOR CONSTRUCTION</b>	A1
Project - Drawing No. <b>18-596-C9401</b>	Issue <b>1</b>





**PENRITH**  
CITY COUNCIL

This plan / document relates to

Development Consent: **SSD-10448 MOD2**  
Subdivision Works Certificate: **EA23/0006**

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

JOIN LINE  
ADJOINS DRG 18-596-C9102  
JOIN LINE

ROAD 01

EXISTING FENCE TO BE REMOVED

FUTURE LOT 1

ROAD 02

FUTURE LOT 2

**FENCING LEGEND**

- FENCE TYPE 1  
TEMPORARY ATF (OR SIMILAR APPROVED) FENCE
- EXISTING FENCE TYPE 1  
TEMPORARY ATF (OR SIMILAR APPROVED) FENCE, REFER 8000 SERIES DRAWINGS FOR DETAILS
- EXISTING FENCE TYPE 4  
1800 HIGH CHAIN WIRE BLACK WITH 3 STRANDS BARBED WIRE POWDER COATED GALVANISED FENCE WITH SNAKE MESH. REFER 8000 SERIES DRAWINGS FOR DETAILS

**NOTE**

- FENCES TO BE LOCATED ON BOUNDARIES. IF IN DOUBT THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT FOR CONFIRMATION.
- REFER 8000 SERIES DRAWINGS FOR THE WIDER ESTATE FENCE LOCATIONS AND DETAILS.

1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date

Bar Scales

1 : 250 @ A1    1 : 500 @ A3

Key Plan

Client

Scales  
1:250

Grid  
GDA2020

Height Datum  
AHD

Drawn  
Designed  
Checked  
Approved

JP  
MH  
DS  
DS

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Project  
ASPECT INDUSTRIAL ESTATE  
MAMRE ROAD,  
KEMPS CREEK  
SWC03

Title  
PROPOSED FENCING  
PLAN  
SHEET 1

Civil Engineers and Project Managers

Level 7, 153 Walker Street  
North Sydney NSW 2060  
ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

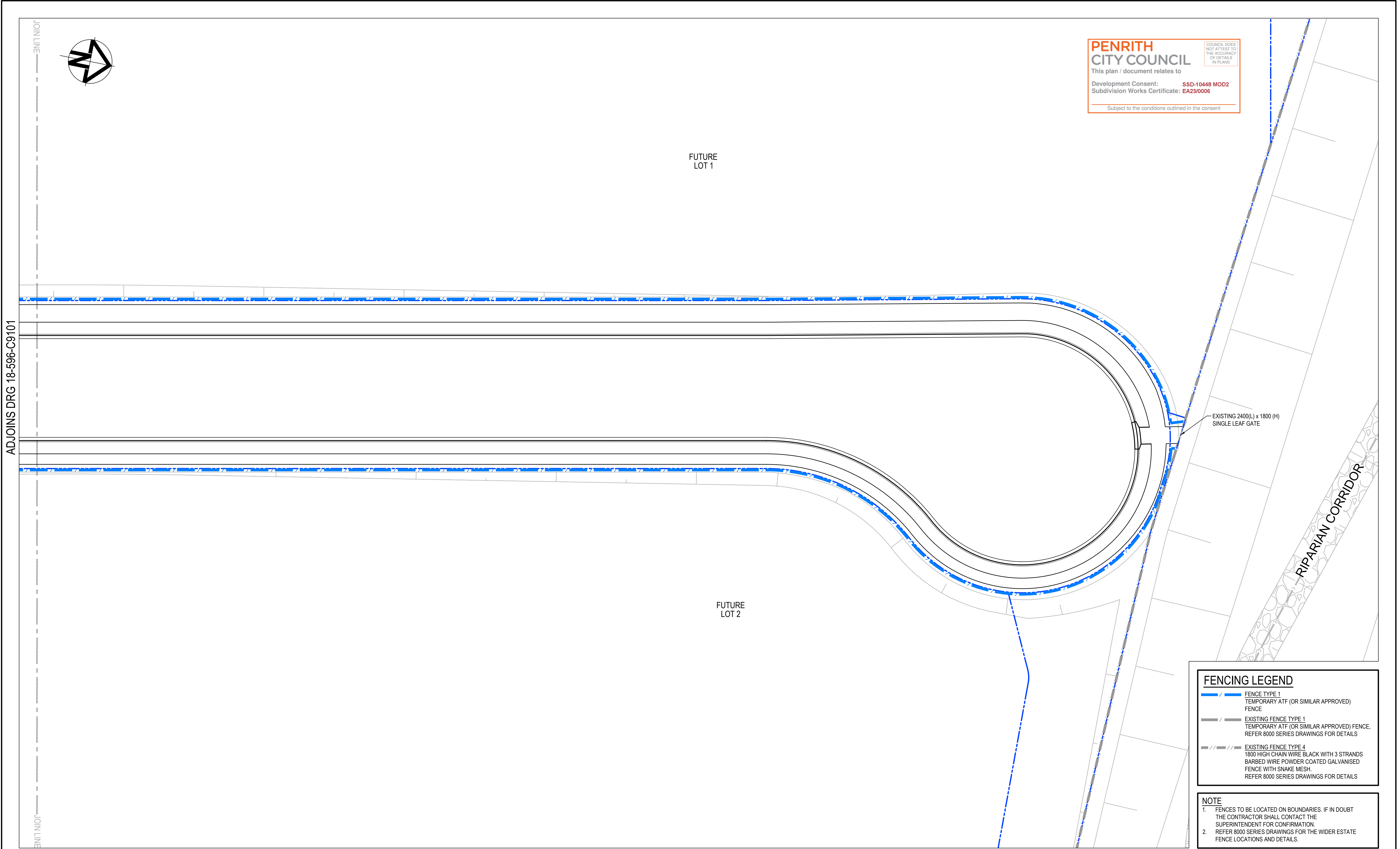
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FOR CONSTRUCTION

Project - Drawing No.  
18-596-C9451

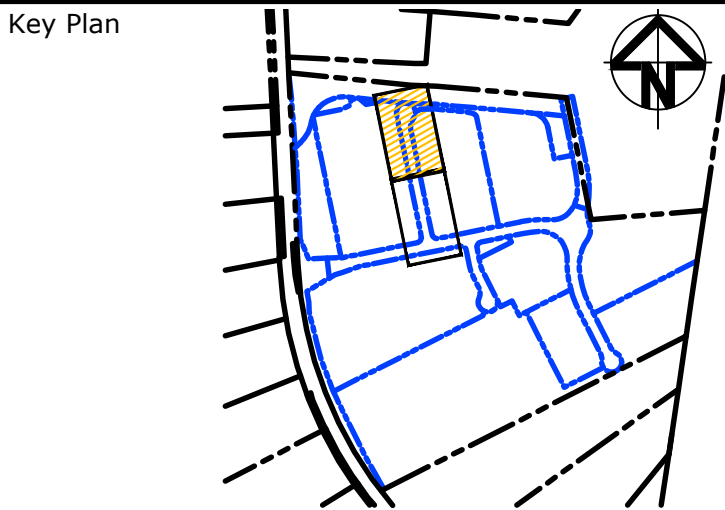
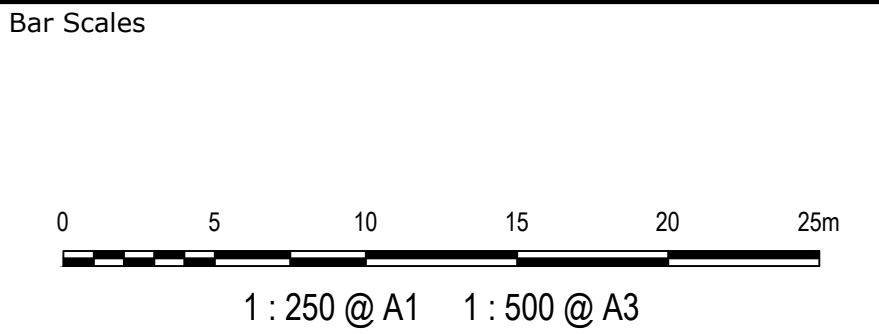
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Issue  
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1	ISSUED FOR CONSTRUCTION	31-03-23
B	ISSUED FOR SWC APPROVAL	30-03-23
A	ISSUED FOR SWC APPROVAL	10-03-23
Issue	Description	Date



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Project	ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC03
Title	PROPOSED FENCING PLAN SHEET 2

Civil Engineers and Project Managers	
 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR CONSTRUCTION
Project - Drawing No.	18-596-C9452
Issue	1