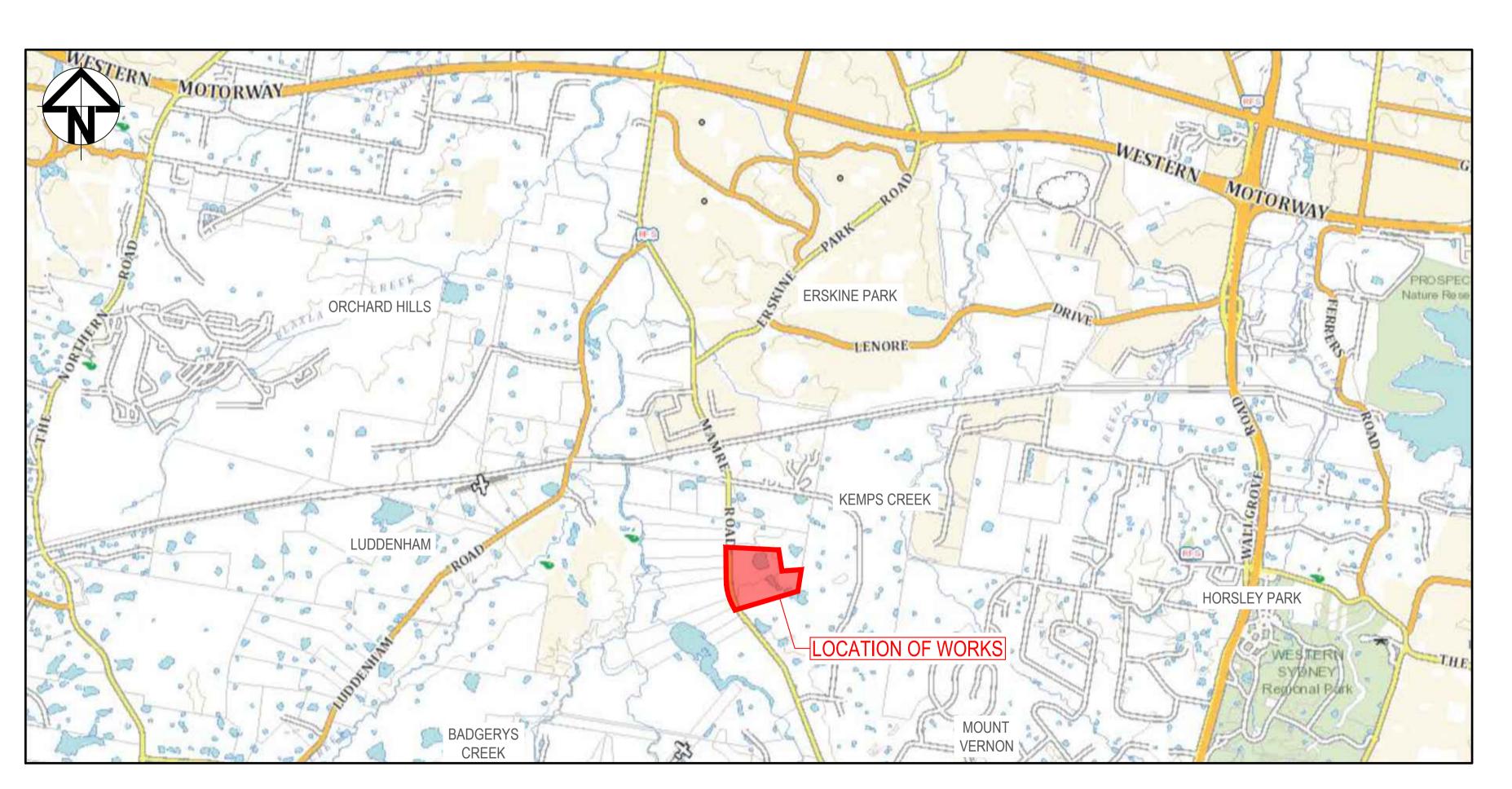
ASPECT INDUSTRIAL ESTATE

ROAD NO. 4 CIVIL WORKS PACKAGE SUBDIVISION WORKS CERTIFICATE 788-882 MAMRE ROAD, KEMPS CREEK SSD-10448



THIS APROVAL IS FOR CIVIL WORKS ONLY, SEPARATE APPROVAL REQUIRED FOR LANDSCAPING WORKS AND STREET TREES.

THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ITT & RELEVANT COUNCIL CONSTRUCTION SPECIFICATIONS, AUSTRALIAN STANDARDS & AUTHORITY GUIDELINES

LOCALITY PLAN NOT TO SCALE

2	ISSUED FOR CONSTRUCTION	23-03-23	
1	ISSUED FOR CONSTRUCTION	20-03-23	
Α	ISSUED FOR SWC APPROVAL	17-02-23	
Issue	Description	Date	

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Scales		Diawii	MH
		Designed	МН
Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS

Project
ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
SWC04

COVER SHEET AND

LOCALITY PLAN

FOR CONSTRUCTION

Civil Engineers and Project Managers

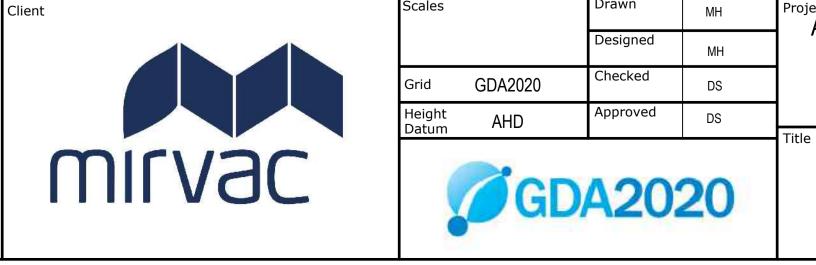
roject - Drawing No. 18-596-C9500



DRAWING LIST			
DRAWING No.	DRAWING TITLE		
18-596-C9500	COVER SHEET AND LOCALITY PLAN		
18-596-C9501	DRAWING LIST		
18-596-C9502	NOTES AND LEGENDS SHEET SHEET 1		
18-596-C9503	NOTES AND LEGENDS SHEET SHEET 2		
18-596-C9505	GENERAL ARRANGEMENT PLAN		
18-596-C9510	TYPICAL ROAD SECTION		
18-596-C9515	TYPICAL DETAILS SHEET 1		
18-596-C9516	TYPICAL DETAILS SHEET 2		
18-596-C9601	ROADWORKS AND STORMWATER DRAINAGE PLAN		
18-596-C9605	CONTROL LINE SETOUT PLAN		
18-596-C9610	CUL-DE-SAC & KERB RETURN CONTROL LINE SETOUT PLAN		
18-596-C9611	TURNING HEAD AND KERB RETURN DETAILS SHEET		
18-596-C9631	ROAD 4 LONGITUDINAL SECTION		
18-596-C9650	PAVEMENT MARKING AND SIGNPOSTING		
18-596-C9660	PAVEMENT PLAN		
18-596-C9701	STORMWATER DRAINAGE LONGITUDINAL SECTION		
18-596-C9711	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)		
18-596-C9721	STORMWATER DRAINAGE DETAILS		
18-596-C9731	STRUCTURE SETOUT DETAILS		
18-596-C9801	ROAD CROSS SECTIONS ROAD 04		
18-596-C9851	EROSION AND SEDIMENT CONTROL PLAN		
18-596-C9860	EROSION AND SEDIMENT CONTROL DETAILS		
18-596-C9901	VEHICLE TURN PATH PLAN		
18-596-C9951	PROPOSED FENCING PLAN		

			Bar Scales
2	ISSUED FOR CONSTRUCTION	23-03-23	
1	ISSUED FOR SWC APPROVAL	20-03-23	
Α	ISSUED FOR SWC APPROVAL	17-02-23	
Issue	Description	Date	
	100mm on Original		

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Scales		Drawn	МН	Pr
		Designed	MH	
Grid	GDA2020	Checked	DS	
Height	AHD	Approved	DS	

ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04

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Project - Drawing No. 18-596-C9501 **A**1

Issue

SITEWORKS NOTES

- ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL
- 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 COMAPACTED 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.
- ASPHALTIC CONCRETE SHALL CONFORM TO TINSW SPECIFICATION
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW FORM 3051 (UNBOUND), TfNSW 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.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TINSW FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TES PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH TINSW FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS
- 13. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRID'S EASEMENT TO COMPLY WITH TRANSGRID'S GUIDELINES AND REQUIREMENTS.
- 14. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL

SURVEY NOTES

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.

DEWATERING

ISSUED FOR CONSTRUCTION

ISSUED FOR SWC APPROVAL

ISSUED FOR SWC APPROVAL

Description

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

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.
- 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.
- CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
- 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.
- 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.

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 EDGES 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.
- 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 TfNSW SPECIFICATION R83
- 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 _ _ BAR GRADE AND TYPE

17 N 20 250 NOMINAL BAR SIZE IN mm | SPACING IN mm

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

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

— LAP TWO WIRES

DECOMMISSIONING / DEMOLITION

- 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.
- EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
- 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.
- ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.

Bar Scales

23-03-23

20-03-23

17-02-23

CONTINUED ABOVE

DECOMMISSIONING / DEMOLITION

CONTINUED FROM BELOW

- 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.

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 :-IF REQUIRED 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

STORMWATER DRAINAGE NOTES

- 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 PIPES 300 DIA. AND LARGER ARE TO BE REINFORCED CONCRETE (RCP) OR
- FIBRE-REINFORCED CONCRETE (FRC) CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O.
- PIPES 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 DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN 6. PIPES TO BE INSTALLED TO TYPE HS2 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).
- ENLARGERS. CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- 10. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996 AND PENRITH CITY COUNCIL CONSTRUCTION SPECIFICATIONS.
- 12. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

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. ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE
- STORMWATER DETAILS AND SPECIFICATIONS, UNLESS APPROVED BY THE SUPERINTENDENT / PENRITH CITY COUNCIL. IF APPROVED AND IN ADDITION TO THE SPECIFICATION,
- ALL PRE-CAST PITS ARE TO BE STRUCTURALLY CERTIFIED TO MEET RELEVANT AUSTRALIAN STANDARDS (AS3600, AS3996).
- ALL PRECAST PITS TO BE FOUNDED ON CONCRETE BLINDING LAYER WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA UP TO 3.0M DEPTH TO INVERT AND 150KPA FROM 3.0M TO 6.0M DEPTH TO INVERT (MINIMUM 100MM THICK 25MPA OR DEEPER TO ENSURE MINIMUM SPECIFIED BEARING CAPACITY IS ACHIEVED).
- PRE-CAST STORMWATER PITS ARE TO BE CUSTOM MADE WITH OPENINGS WITHIN +50MM OD OF PIPE, HEIGHTS AND PIPE PENETRATIONS DURING MANUFACTURE. ANY ADDITIONAL PENETRATIONS SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS, IF REQUIRED. DEMOLITION SAWS ARE NOT TO BE USED IN ANY CIRCUMSTANCES.
- SINGLE UNITS PREFERRED BUT IF REQUIRED MINIMUM RISER DEPTH 600MM PIT INSTALLATION AND JOINTING PIPES TO PITS SHALL BE UNDERTAKEN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. **CONTINUED ABOVE**

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PERMISSION OF AT&L

STORMWATER DRAINAGE NOTES

CONTINUED FROM BELOW

- ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / PENRITH 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.

EMBANKMENT CONSTRUCTION

SEQUENCE

- STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
- CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
- 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
- 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
- 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.
- 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.
- TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
- PLACE ROCK RIP-RAP AS SHOWN.
- 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.
- WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
- GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

EROSION AND SEDIMENT CONTROL

NOTES

- 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
- a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004. b. LOCAL AUTHORITY REQUIREMENTS
- 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

Client

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.

CONTINUED ABO\

EROSION AND SEDIMENT CONTROL

NOTES

CONTINUED FROM BELOW

SEDIMENT CONTROL 7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT

- MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- 8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
- 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 FENCING.
- 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.
- . 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
- 2. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- 3. 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.

STAGING

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.

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**

DESIGN & CERTIFICATION REQUIREMENTS

- 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.

CONSTRUCTION SPECIFICATION

- . THESE DRAWINGS SHOULD BE READ IN CONJUCTION WITH PENRITH CITY COUNCIL'S LATEST REVISION OF THE 'ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS'
- WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR 2.1. NOTIFY THE DESIGN ENGINGEER AND/OR SUPERINTENDENT 2.2. THE PENRITH CITY COUNCIL'S SPECIFICATION TAKES PRECEDENCE
- REFER PELLS SULLIVAN MEYNINK REPORT PSM3739-006S REV 6 (DATED

REFER SITE IMAGE LANDSCAPE SPECIFICATION (CURRENT REVISION)

13 OCT 2020) FOR BULK EARTHWORKS SPECIFICATIONS.

FOR LANDSCAPE SPECIFICATION.

PENRITH THE ACCURAGE OF DETAILS CITY COUNCIL This plan / document relates to Development Consent: SSD-10448 MOD3 Subdivision Works Certificate: EA23/0004 Subject to the conditions outlined in the consent



DIAL BEFORE YOU DIG 1100 PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060

CONTRACTOR SHALL CALL;



ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au

Issue

FOR CONSTRUCTION Project - Drawing No.

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\9500 SWC04 CC\18-596-C9502.dwg

Date 100mm on Original

OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.

- CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND MOST IMPORTANTLY. IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
- OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
- STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3%
- 12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED

- **GENERAL INSTRUCTIONS**
- REQUIRED TO SUIT THE CONSTRUCTION STAGING 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
- c. EPA REQUIREMENTS 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.

Scales MH Designed Checked GDA2020 Approved AHD

DS DS

NOTES AND LEGENDS SHEET

ASPECT INDUSTRIAL ESTATE

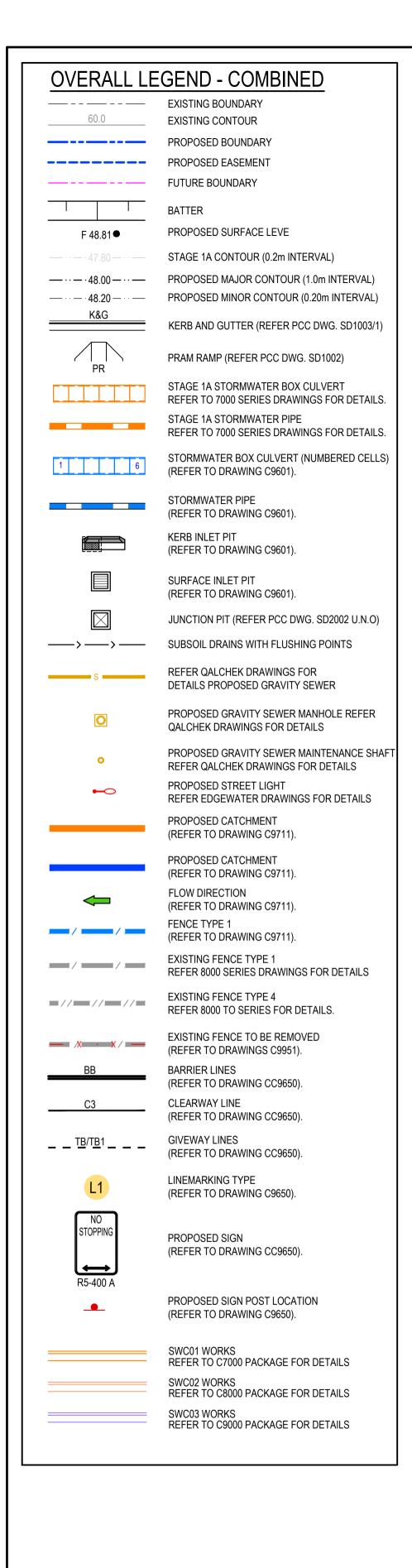
MAMRE ROAD.

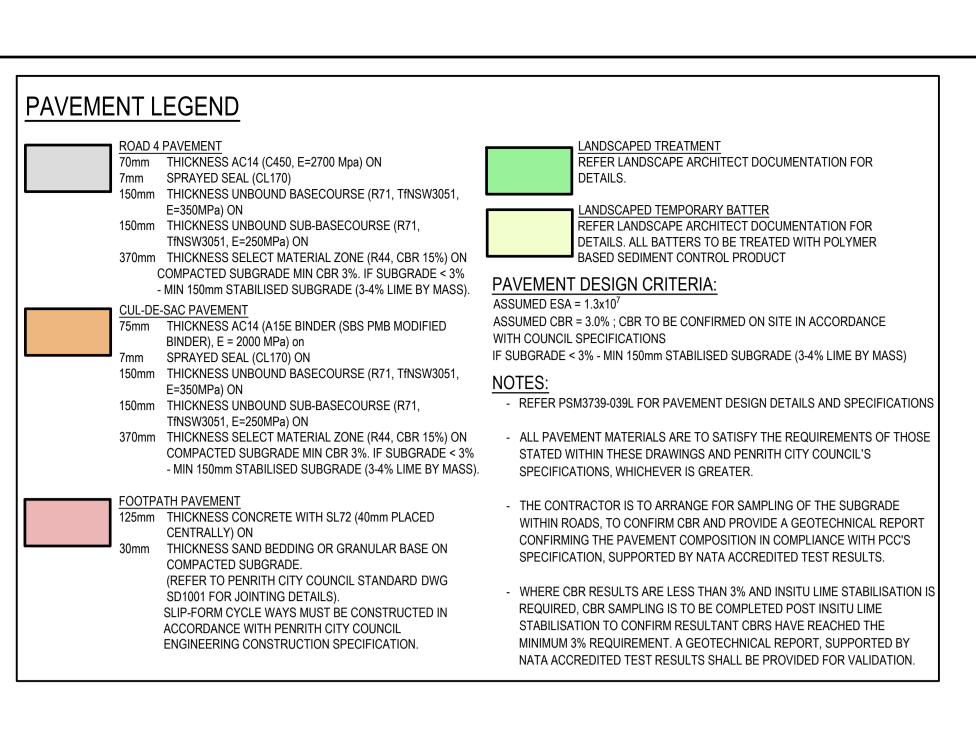
KEMPS CREEK

SWC04

SHEET

18-596-C9502





		CONCEDUCATION	NI TOLEDANIOSO			
		CONSTRUCTIO	N TOLERANCES			
	BULK EA	ARTHWORKS	PA	VEMENT	/ ACCESS TR	ACKS
EARTHWORKS	-50mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND	CONCRETE			
		TRIMMING)	KERB	-5mm / +5mm	ALONG THE TOP OF K	CERB OVER A LENGTH OF 5 METRES
			KERB	-5mm / +5mm	ALONG THE FACE OF	KERB OVER A LENGTH OF 5 METRES
STORMWATER			PATH	-0mm / +10mm	OF FOOTPATH/SHARE	ED PATH FINISHED SURFACE LEVEL
PIPES/CULVERTS	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT	PATH	SURFACE OF THE	PATH, INCLUDING JOIN	TS, MUST NOT POND WATER.
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	VERGE			
CHAMBERS	WITHIN 20mm	OF THE INVERT LEVEL SHOWN ON THE DRAWINGS	TURF	-10mm / +0mm		HED SURFACE LEVEL (AFTER
CHAMBERS	WITHIN 200mm	LONGITUDINALLY OF THE PLAN POSITION, WITH REFERENCE TO THE CONTROL LINE FOR THE ROAD SHOWN ON THE DRAWINGS			KERBS, ETC)	IE ADJOINING MATERIAL (FOOTPATHS,
LINTELS	AS PER THE TOLER	RANCES SPECIFIED FOR THE ADJOINING MATERIAL	MULCH	-10mm / +0mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS KERBS, ETC)	
			RETAINING / NOISE WALLS			
COVERS	AS PER THE TOLER	RANCES SPECIFIED FOR THE ADJOINING MATERIAL	WALL	-20mm / +20mm	FROM ANY POINT ON DEVIATE FROM THAT	THE WALL THE LEVEL MUST NOT SPECIFIED
GRATES	AS PER THE TOLER	RANCES SPECIFIED FOR THE ADJOINING MATERIAL	WALL	-10mm / +10mm	Omm INCLINATION OF THE FACE OF THE COMPLETED WAL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION METER HEIGHT (BLOCK WALL)	
OPEN DRAINS	WITHIN 50mm OF THE DESIGN LEVEL AT ANY POINT PROVIDED THAT THERE IS A CONTINUOUS DOWNGRADE (WITHOUT PONDING) IN		WALL	-5mm / +0mm		FACE OF THE COMPLETED WALL FROM THE SPECIFIED INCLINATION PER EL WALL)
			WALL	-20mm / +20mm		CE OF THE WALL MUST BE SUCH THAT ATION FROM A 4.5 M STRAIGHT EDGE
F	PAVEMENT	/ ACCESS TRACKS	TOLERANCE FOR	EMBANK	MENT BATT	ERS
SUBBASE	-10mm / +10mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)	LOCATION	TOLERANCE (mm)	
SUBBASE	-10mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND]	SLOPE 1H:1V	OR FLATTER	SLOPE STEEPER THAN 1H:1V
SUBBASE	-5mm / +5mm	TRIMMING) ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION)	AT LEVEL OF TOP OF FORMATION UNDERSIDE OF PAVEMENT	/ +0/-150		+0/-150
BASECOURSE	-0mm / +20mm	OVER A LENGTH OF 3 METRES OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION &	BETWEEN TOP OF FORMATION AN 1m BELOW TOP OF FORMATION	ND +150/-150		+150/-150
		TRIMMING)	BEYOND 1m BELOW TOP OF FORMATION	+300/-300		+300/-300
BASECOURSE	-0mm / +10mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)	REFER TO TFNSW R44 SPECIFICAT	TION		
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 O	COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE IT 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				
			Ī			



Bar Scales Client THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED ISSUED FOR CONSTRUCTION 23-03-23 WITHOUT THE WRITTEN ISSUED FOR SWC APPROVAL 20-03-23 PERMISSION OF AT&L 17-02-23 ISSUED FOR SWC APPROVAL



ASPHALT

ASPHALT

-8mm / +8mm

JOINTS, MUST NOT POND WATER.

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

ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY

WIDTH AT THE COMPLETION OF THE DEFECT LIABILITY

SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE

ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04

FOR CONSTRUCTION

Civil Engineers and Project Managers Level 7, 153 Walker Street

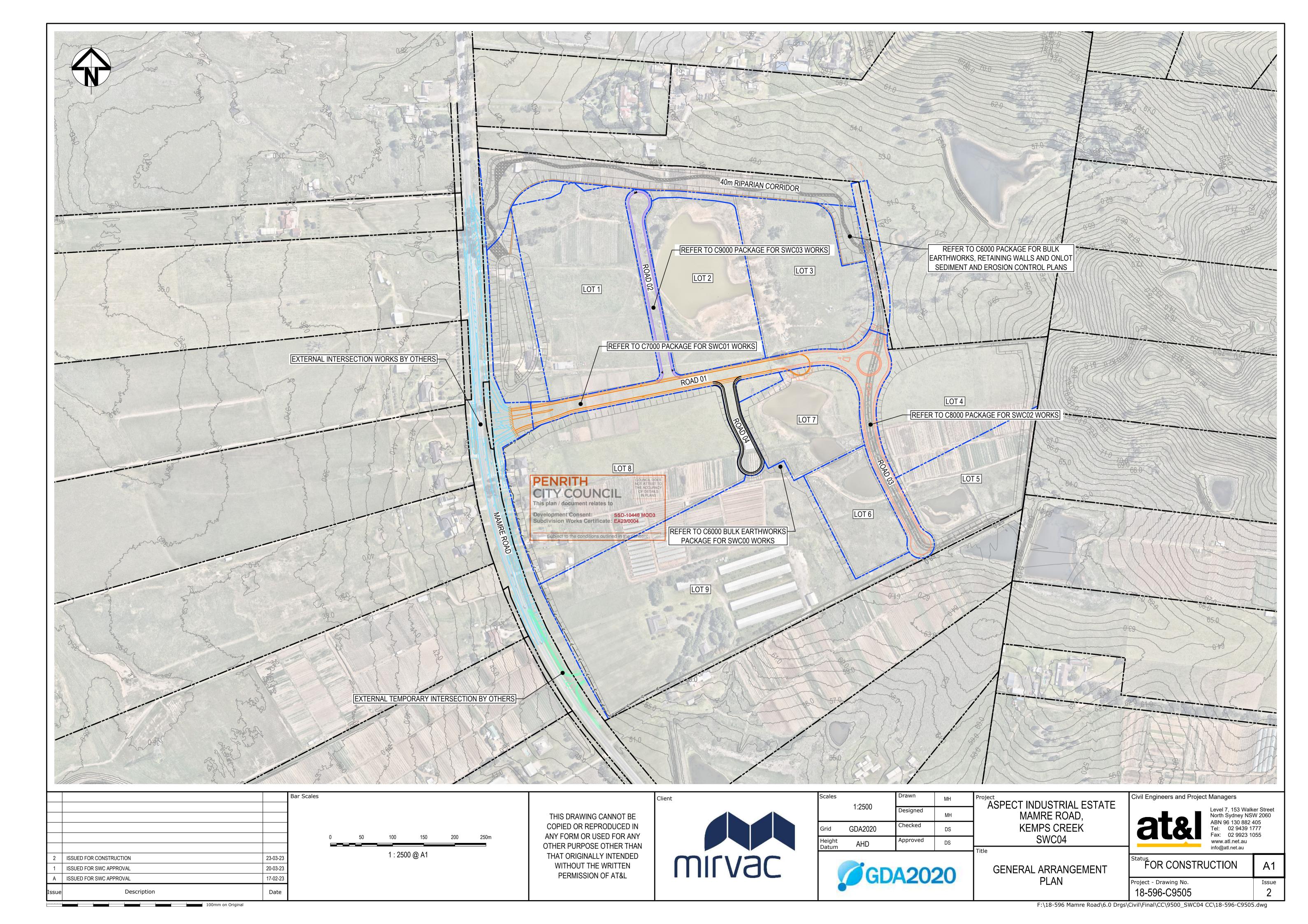
North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au

Issue

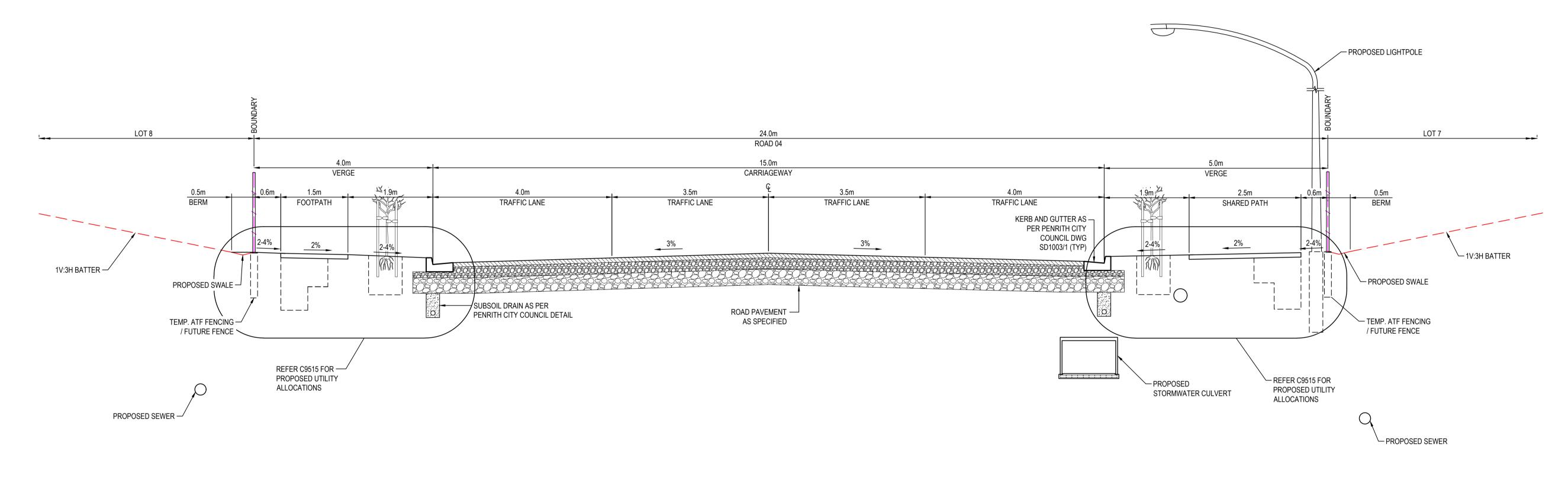
NOTES AND LEGENDS SHEET SHEET 2

Date

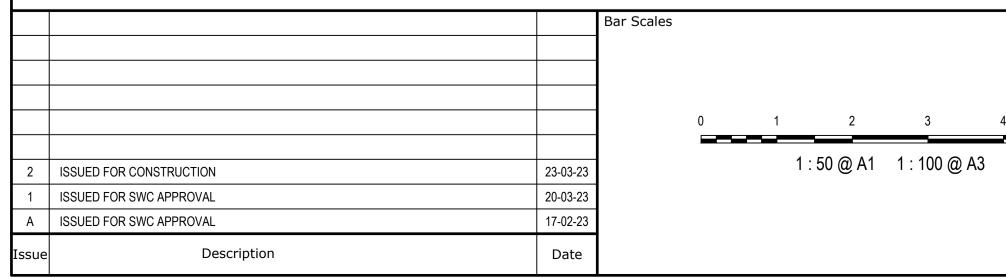
Description







TYPICAL ROAD 04 SECTION
1:50



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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L



		Drawn	МН	Proj
	1:50	Designed	MH	
Grid	GDA2020	Checked	DS	
Height	AHD	Approved	DS	

	Title	
20		TYP

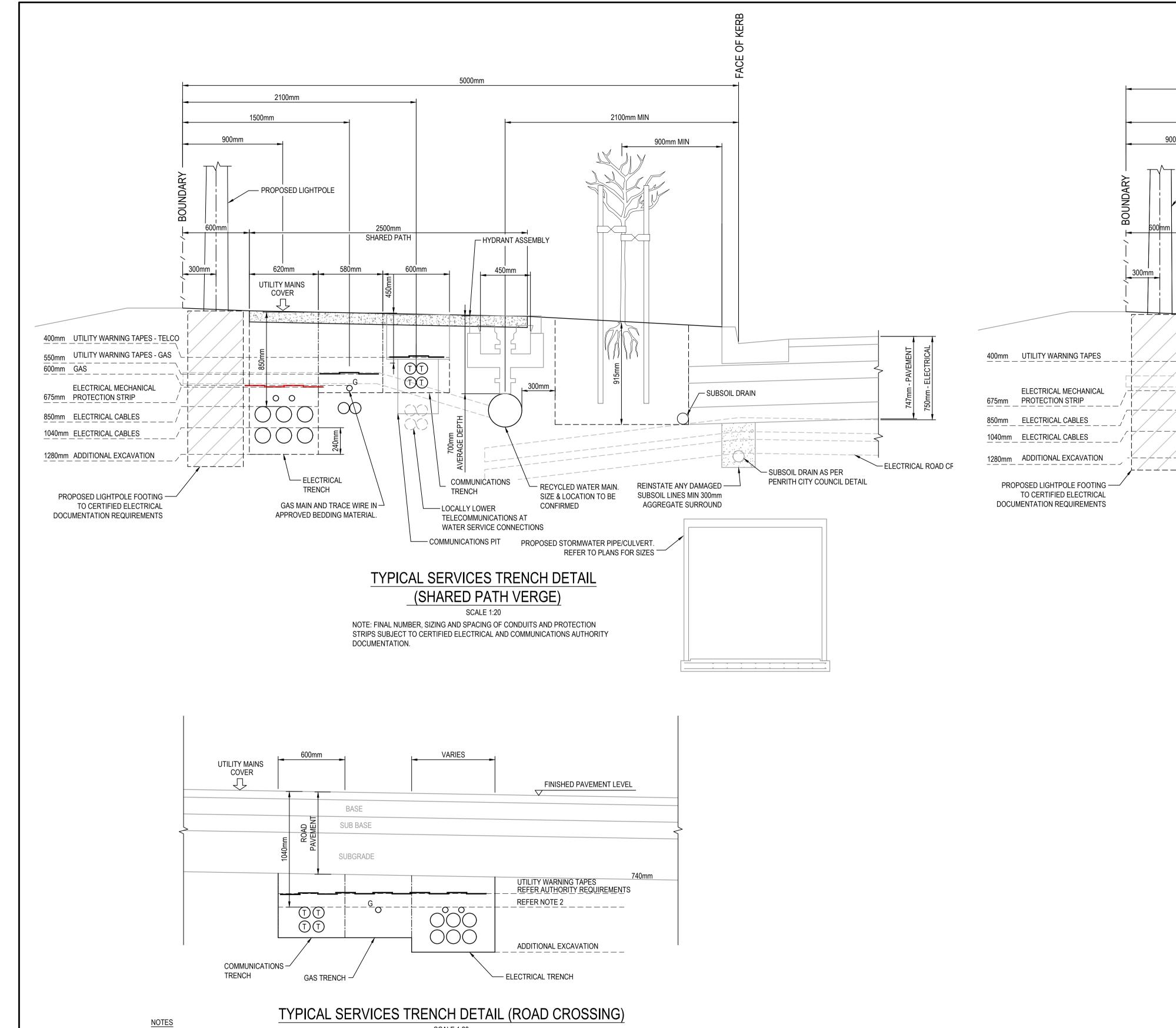
ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
SWC04

TYPICAL ROAD SECTION

Civil Engineers and Project Managers			
at&I	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		
	inowati.not.au		

FOR CONSTRUCTION A1

Project - Drawing No. Issue 2



4000mm 1750mm MIN 1500mm 900mm 900mm MIN PROPOSED LIGHTPOLE HYDRANT ASSEMBLY -1500mm FOOTPATH 450mm UTILITY MAINS COVER TT — SUBSOIL DRAIN ► ELECTRICAL ROAD CROSSING - SUBSOIL DRAIN AS PER RECYCLED WATER MAIN. - ELECTRICAL SIZE & LOCATION TO BE PENRITH CITY COUNCIL DETAIL - COMMUNICATIONS TRENCH CONFIRMED TRENCH - LOCALLY LOWER REINSTATE ANY DAMAGED -TELECOMMUNICATIONS AT SUBSOIL LINES MIN 300mm WATER SERVICE CONNECTIONS AGGREGATE SURROUND — COMMUNICATIONS

TYPICAL SERVICES TRENCH DETAIL (FOOTPATH VERGE)

NOTE: FINAL NUMBER, SIZING AND SPACING OF CONDUITS AND PROTECTION STRIPS SUBJECT TO CERTIFIED ELECTRICAL AND COMMUNICATIONS AUTHORITY

- 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. Bar Scales

100mm on Original

1:20 @ A1 1:40 @ A3 ISSUED FOR CONSTRUCTION 23-03-23 ISSUED FOR SWC APPROVAL 20-03-23 17-02-23 ISSUED FOR SWC APPROVAL Date Description

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Scales	1:20	Drawn	MH
	1.20	Designed	MH
Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS

DOCUMENTATION.

TYPICAL DETAILS SHEET 1

ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04

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

SSD-10448 MOD3

Project - Drawing No.

PENRITH

CITY COUNCIL

Subdivision Works Certificate: EA23/0004

Civil Engineers and Project Managers

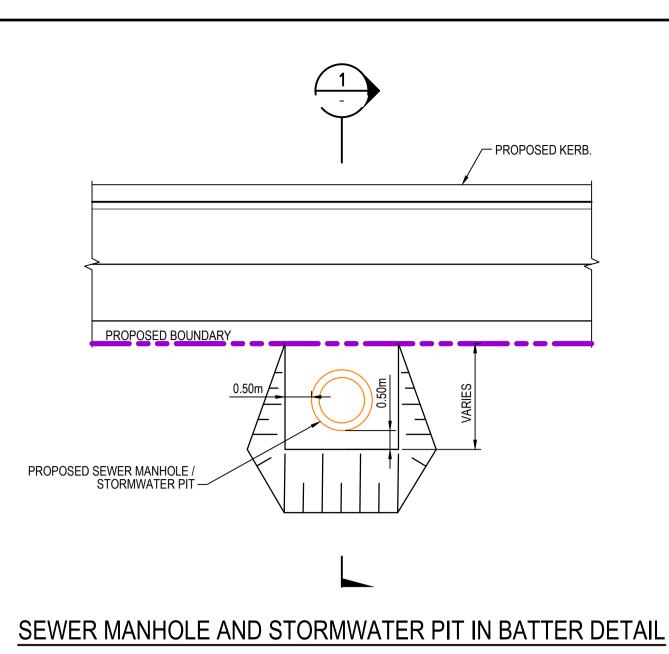
Subject to the conditions outlined in the consent

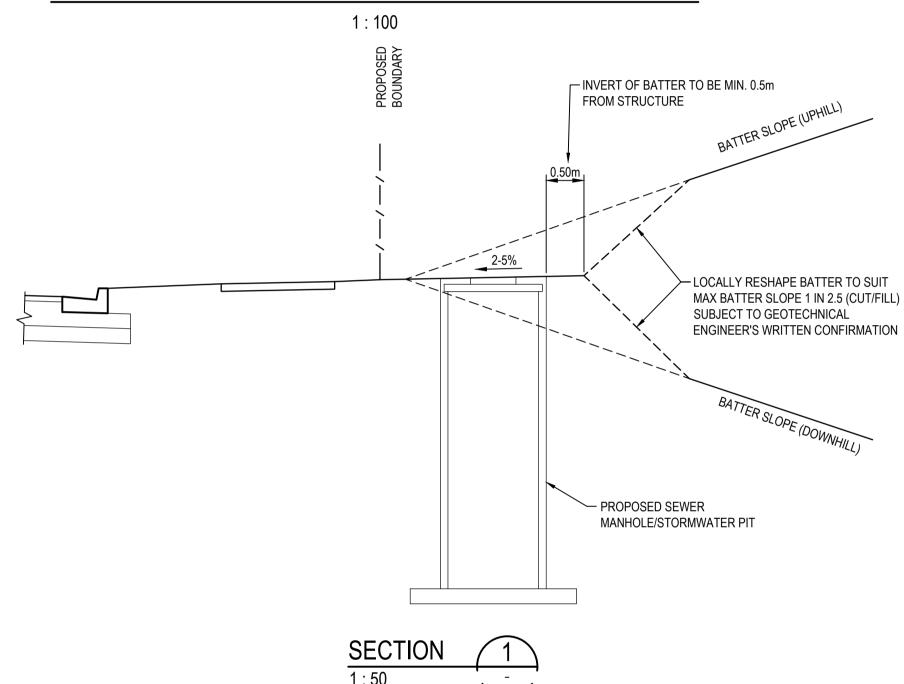
This plan / document relates to

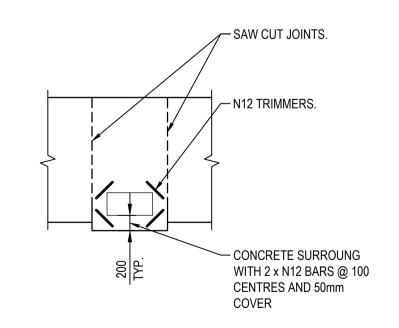
Development Consent:

FOR CONSTRUCTION Issue 18-596-C9515

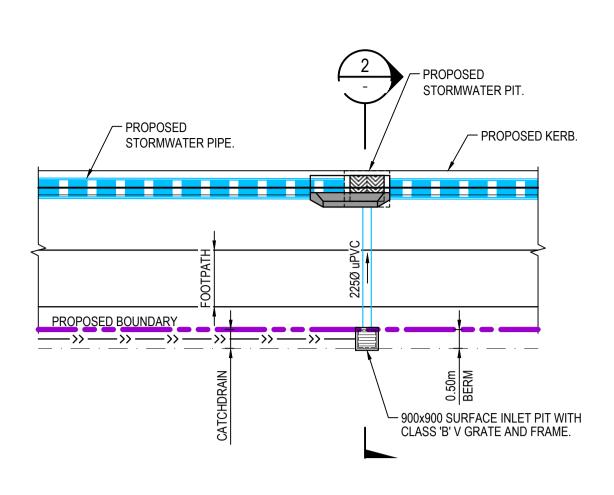
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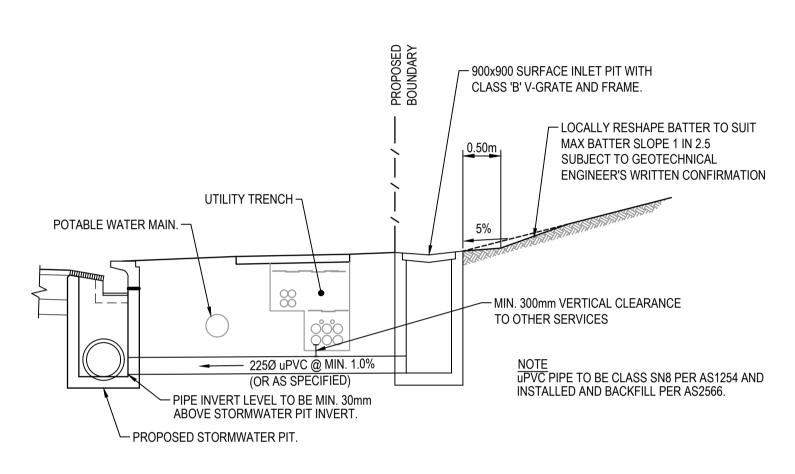


SERVICE COVER IN FOOTPATH TYPICAL DETAIL SCALE 1:50

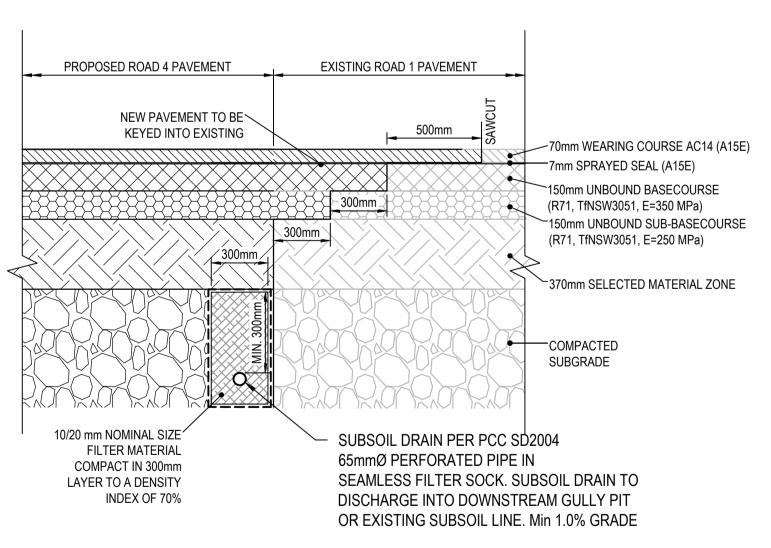


TYPICAL BATTER CATCH DRAIN PIT DETAIL

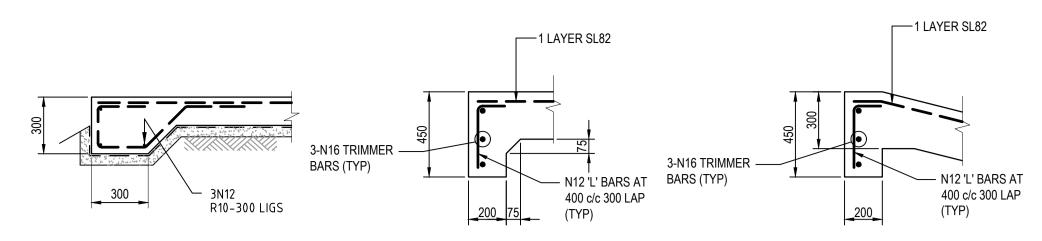
1:100







PAVEMENT INTERFACE DETAIL SCALE 1:10



THICKENED EDGE DETAIL (TE)

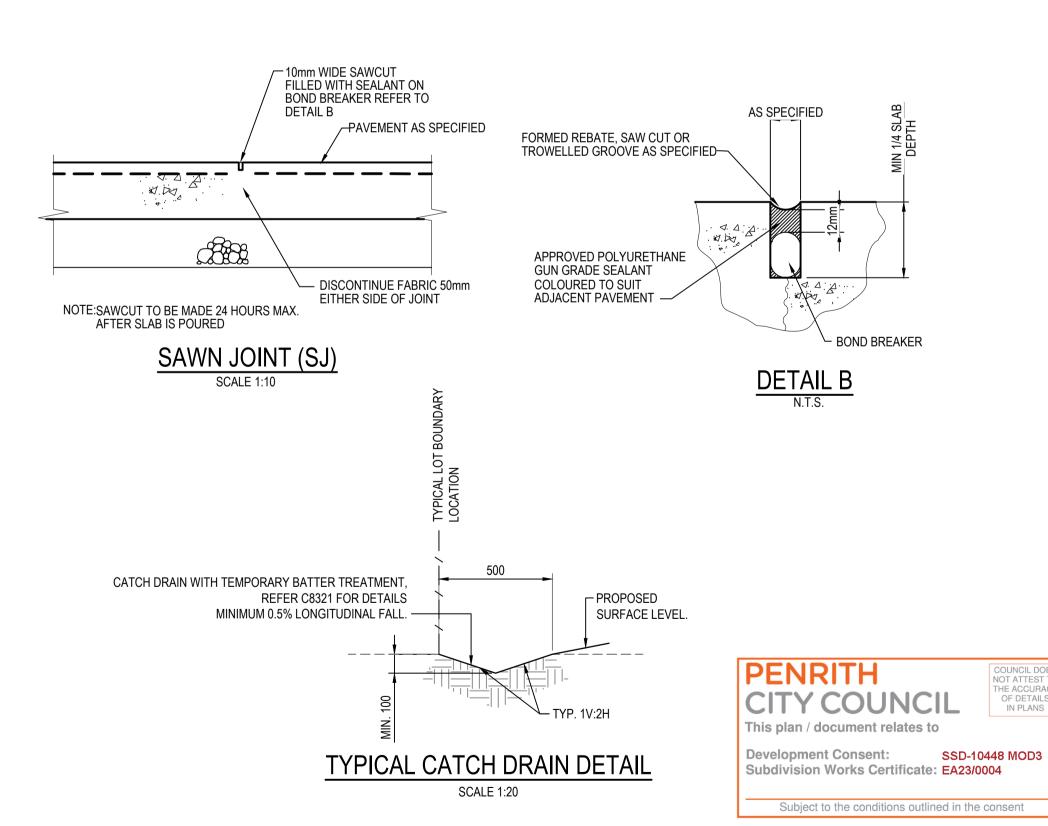
EDGE BEAM DETAIL 1 (EB) SCALE 1:20

EDGE BEAM DETAIL 2 (EB) SCALE 1:20

__ 16 THICK COMPRESSIBLE CORK FILLER REFER TO 'TABLE A' BELOW FOR DOWEL BAR BOARD WITH 12 DEEP SEALANT ON DIAMETER AND 'NOTES 1 AND 2' FOR DETAILS BOND BREAKER, REFER DETAIL A PAVEMENT AS /-EXPANSION CAP SPECIFIED WHERE REQ'D / (10 ALLOWANCE) X//XXX//XXX// 2N12 SUPPORT BARS SECURELY ─BOND BREAKING AGENT TIED OR TACK WELDED TO DOWEL APPLIED TO SECTION OF 300 DOWEL IN SLAB POURED 2nd.

DOWELLED EXPANSION JOINT (DEJ)

TABLE A 1. DOWEL BARS ARE TO BE PLAIN ROUND STEEL BARS OF GRADE 250N AND 450mm LONG SLAB THICKNESS DOWEL DIA PLACED AT 300mm CENTRES. 125<D≤160 24 2. MORE THAN HALF OF THE DOWEL SHOULD BE 160<D≤200 28 COATED WITH DEBONDING AGENT TO ENSURE 200<D≤250 32 EFFECTIVE DEBONDING FROM THE CONCRETE 36 D>250 ON THAT SIDE OF THE JOINT.



			Bar Scales
2	ISSUED FOR CONSTRUCTION	23-03-23	
1	ISSUED FOR SWC APPROVAL	20-03-23	
Α	ISSUED FOR SWC APPROVAL	17-02-23	
Issue	Description	Date	

100mm on Original

es	0	100	200	400	600	800	1000mm
	0		1 : 500	10 @ A1	_	A3 1500	2000mm
	0		1:	20 @ A1	1 : 40 @ 3	A3 4	5m
	0		1:	50 @ A1	1 : 100 @	A3 8	10m
			1:′	100 @ A1	1 : 200 @) A3	

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

ASPECT INDUSTRIAL ESTATE MAMRE ROAD, **KEMPS CREEK** SWC04

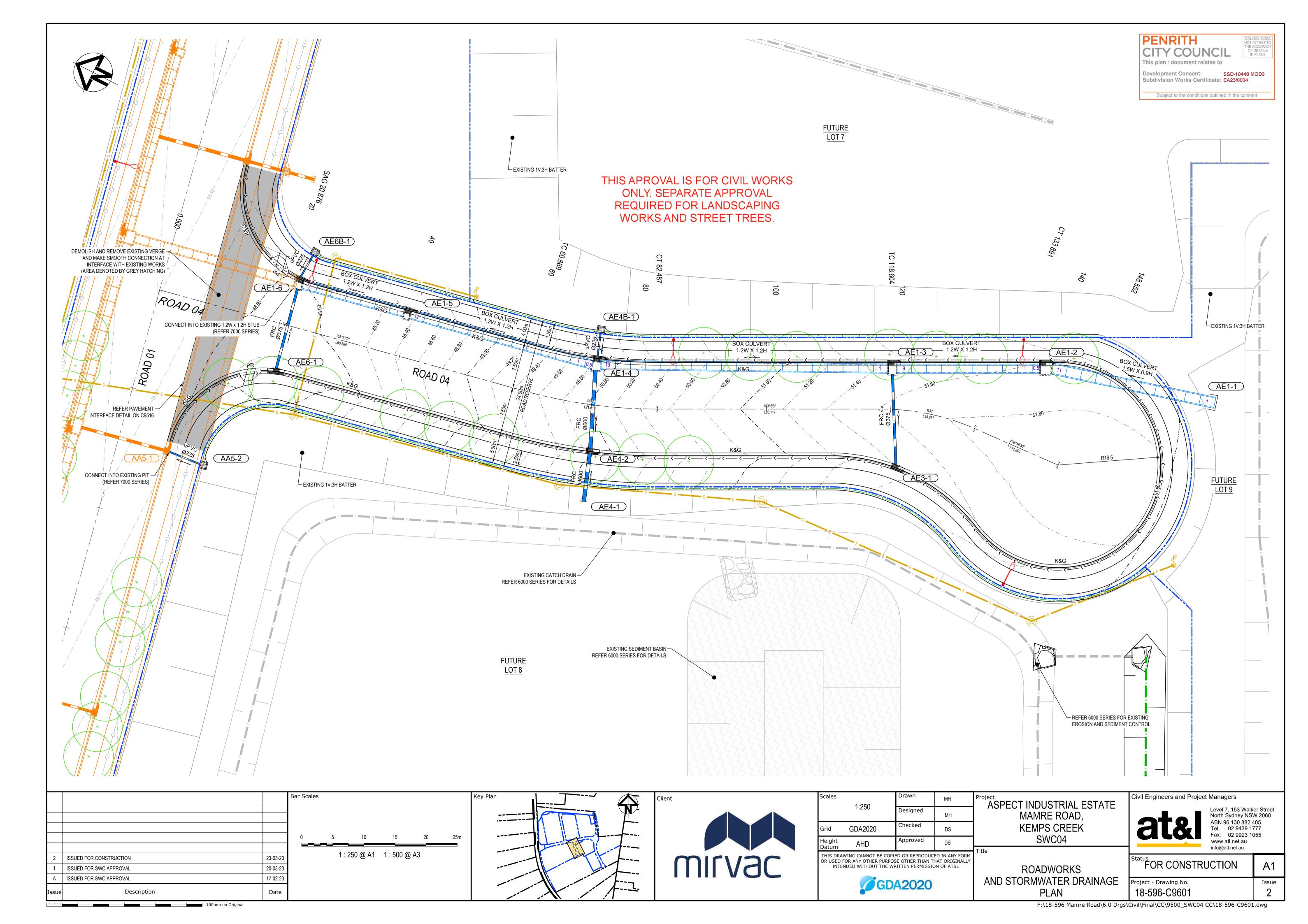
> TYPICAL DETAILS SHEET 2

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

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

FOR CONSTRUCTION Project - Drawing No. Issue 18-596-C9516



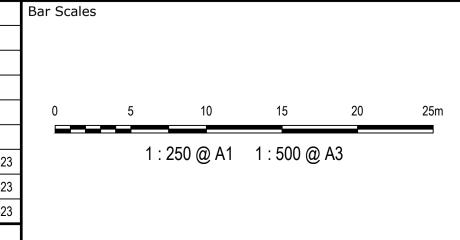


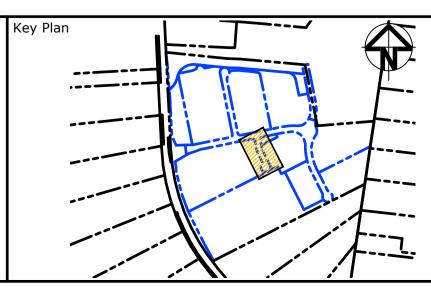
	C1 ROAD->ROAD 04 HORIZONTAL POINTS							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295095.345	6253109.922		168°37'08.79"			
TC	60.869	295107.356	6253050.250	49.485	168°37'08.79"			
IP 2	71.678	295109.502	6253039.588	50.025		R = -80.000	21.619	15°28'59.94"
СТ	82.487	295114.417	6253029.887	50.517	153°08'08.85"			
TC	118.604	295130.737	6252997.668	51.614	153°08'08.85"			
IP 3	126.248	295134.241	6252990.750	51.754		R = 37.000	15.287	23°40'21.39"
СТ	133.891	295134.673	6252983.008	51.853	176°48'30.25"			
IP 4	148.552	295135.489	6252968.370	52.000	176°48'30.25"			

PENRITH COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS CITY COUNCIL This plan / document relates to Development Consent: SSD-10448 MOD3
Subdivision Works Certificate: EA23/0004 Subject to the conditions outlined in the consent

2	ISSUED FOR CONSTRUCTION	23-03-23
1	ISSUED FOR SWC APPROVAL	20-03-23
Α	ISSUED FOR SWC APPROVAL	17-02-23
Issue	Description	Date

100mm on Original







Scales	1:250	Drawn	MH	Pi
	1.230	Designed	MH	
Grid	GDA2020	Checked	DS	
Height	AHD	Approved	DS	
Datum	,			

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GDA2020

oject
ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
SWC04

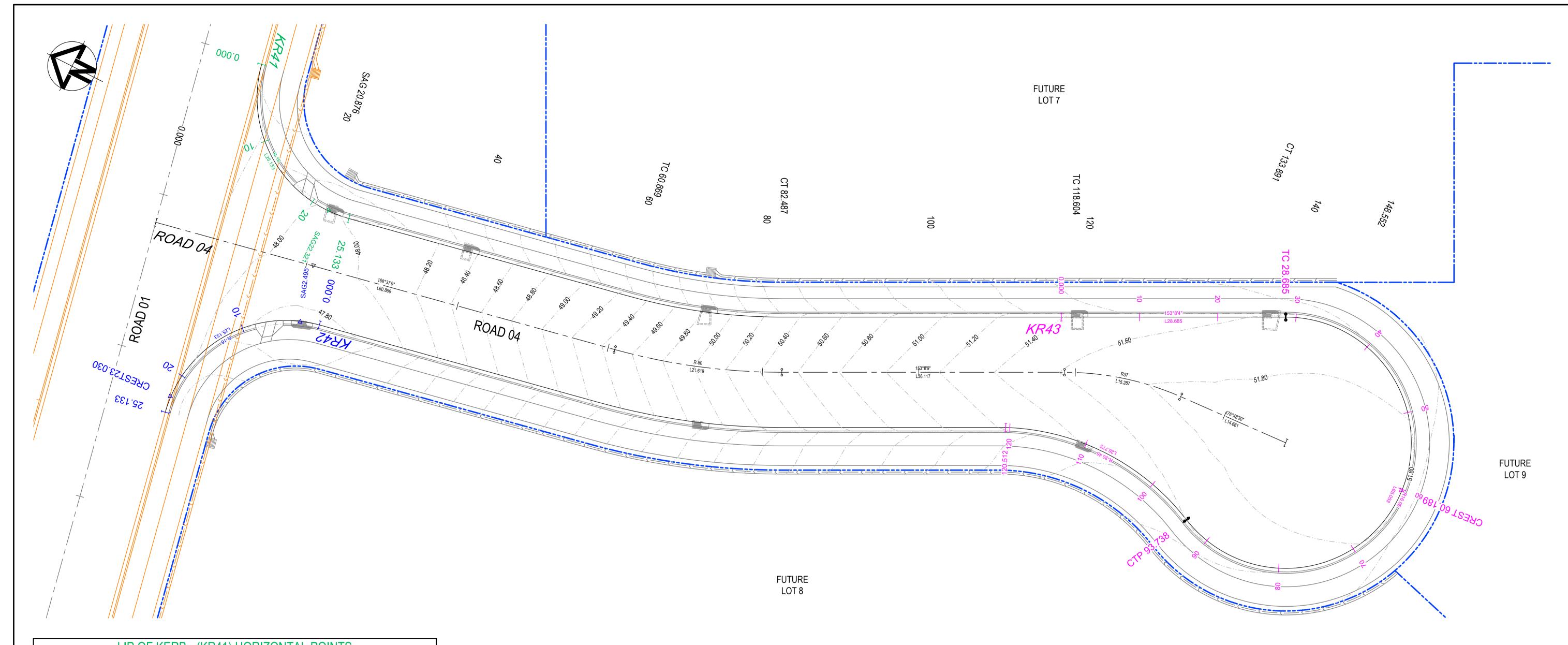
CONTROL LINE SETOUT PLAN

Civil Engineers and Pro	ject Managers
ate	Level 7, 153 North Sydney ABN 96 130

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

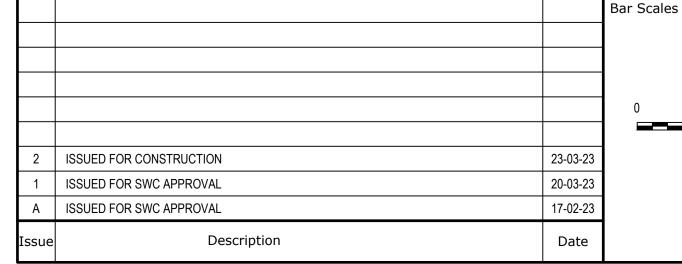
FOR CONSTRUCTION

A1 Project - Drawing No. Issue 18-596-C9605

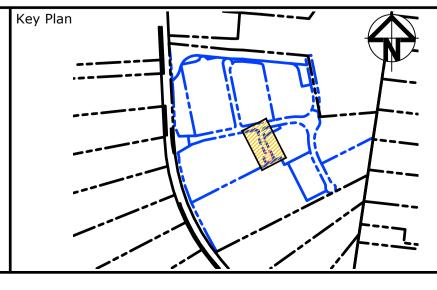


	LIP OF KERB - (KR41) HORIZONTAL POINTS							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295119.452	6253106.970	48.320	258°37'10.18"			
IP 2	12.566	295103.766	6253103.813	48.122		R = -16.000	25.133	90°00'01.39"
IP 3	25.133	295106.923	6253088.128	48.007	168°37'08.79"			
		LIP C	F KERB -	(KR42)	HORIZO	NTAL POI	NTS	
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295093.101	6253085.346	47.753	348°37'08.79"			
IP 2	12.566	295089.943	6253101.031	47.894		R = -16.000	25.133	89°59'58.61"
IP 3	25.133	295074.258	6253097.874	48.044	258°37'10.18"			
		LIP C	F KERB -	· (KR43)	HORIZO	NTAL POI	NTS	
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295136.844	6253001.212	51.395	153°08'04.03"			
TC	28.685	295149.807	6252975.623	51.627	153°08'04.03"			
IP 2	44.948	295161.439	6252952.659	51.742		R = 16.050	32.526	116°06'47.69"
СС	61.211	295135.700	6252952.321	51.839	269°14'51.73"			
IP 3	77.474	295109.960	6252951.983	51.721		R = 16.050	32.526	116°06'47.69"
СС	93.738	295120.986	6252975.245	51.604	25°21'39.42"			
IP 4	107.125	295127.120	6252988.187	51.458		R = -30.450	26.775	50°22'49.86"
IP 5	120.512	295121.063	6253001.165	51.227	334°58'49.56"			

PENRITH CITY COUNCIL This plan / document relates to Development Consent: SSD-10448 MOD3
Subdivision Works Certificate: EA23/0004 Subject to the conditions outlined in the consent



1:250 @ A1 1:500 @ A3





Scales	1:250	Drawn	MH	Р
	1.250	Designed	MH	
Grid	GDA2020	Checked	DS	
Height Datum	AHD	Approved	DS	L
Datuiii				Ι÷

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GDA2020

ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
SWC04

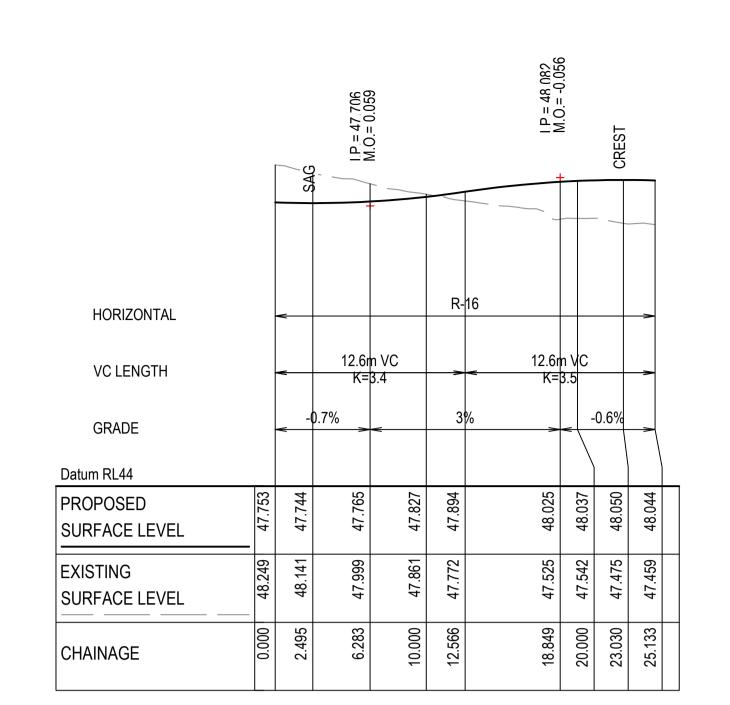
CUL-DE-SAC & KERB RETURN CONTROL LINE SETOUT
PLAN

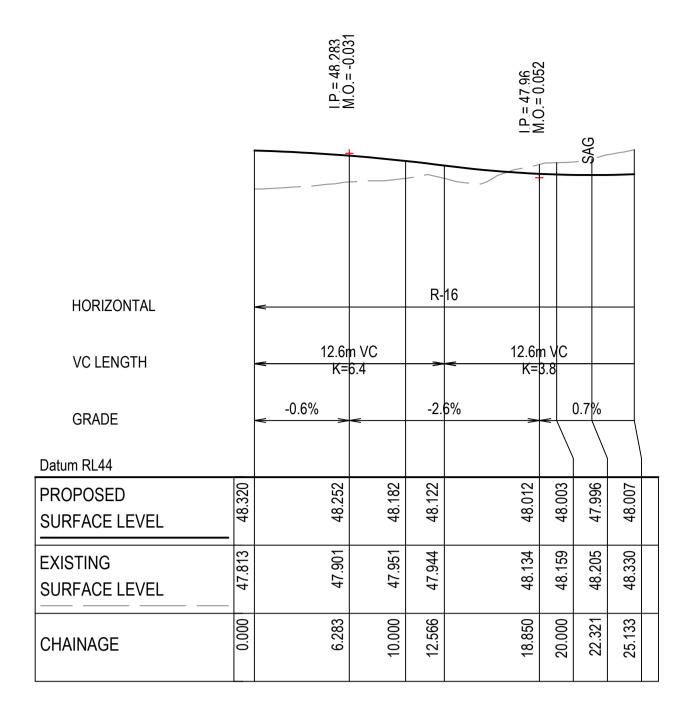
Civil Engineers and Pro	ject Managers
ot o	Level 7, 19 North Syd ABN 96 1

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

Issue

FOR CONSTRUCTION
Project - Drawing No.
18-596-C9610





KR41 LONGITUDINAL SECTION

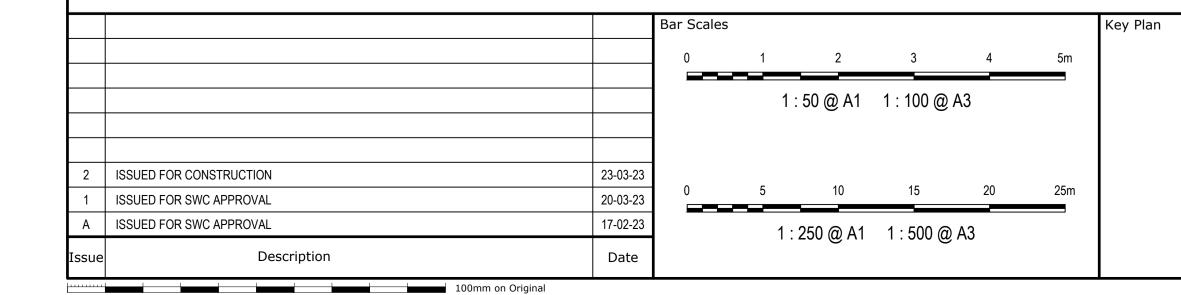
SCALE 1:250 HORI.
1:50 VERT.

KR42 LONGITUDINAL SECTION SCALE 1:250 HORI. 1:50 VERT.



KR43 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.





Scales		Drawn	MH	Pr
	1:250 (H) 1:50 (V)	Designed	MH	
Grid	GDA2020	Checked	DS	
Height Datum	AHD	Approved	DS	T:/
				Tit

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GDA2020

oject	
ASPECT INDUSTRIAL ESTAT	Ε
MAMRE ROAD,	
KEMPS CREEK	
SWC04	

TURNING HEAD AND KERB RETURN DETAILS SHEET

Civil Engineers and Proje	ct 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

PENRITH

CITY COUNCIL

Subdivision Works Certificate: EA23/0004

Subject to the conditions outlined in the consent

This plan / document relates to

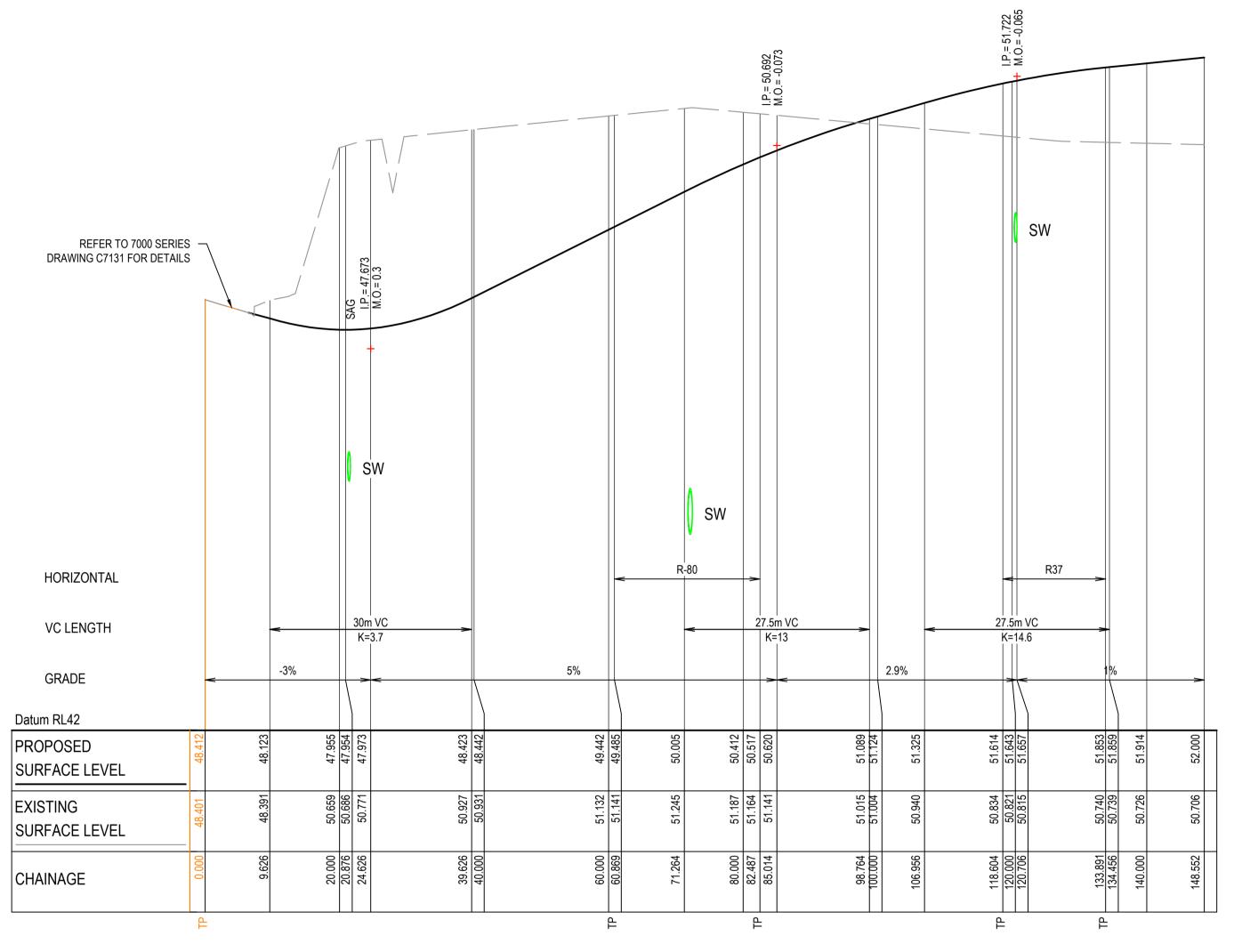
Development Consent:

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

SSD-10448 MOD3

FOR CONSTRUCTION	A1
oject - Drawing No.	Issue
18-596-C9611	2

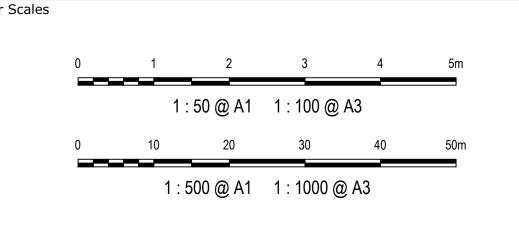
info@atl.net.au



ROAD 04 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.

			Bar S
			1
			1
2	ISSUED FOR CONSTRUCTION	23-03-23	
1	ISSUED FOR SWC APPROVAL	20-03-23	
Α	ISSUED FOR SWC APPROVAL	17-02-23	
Issue	Description	Date	
	100mm on Orig	inal	-



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Scales		Drawn	МН	Project
	1:500 (H) 1:50 (V)	Designed	MH	
Grid	GDA2020	Checked	DS	
Height Datum	AHD	Approved	DS	-
_ 5.53				Title

		GDA2020
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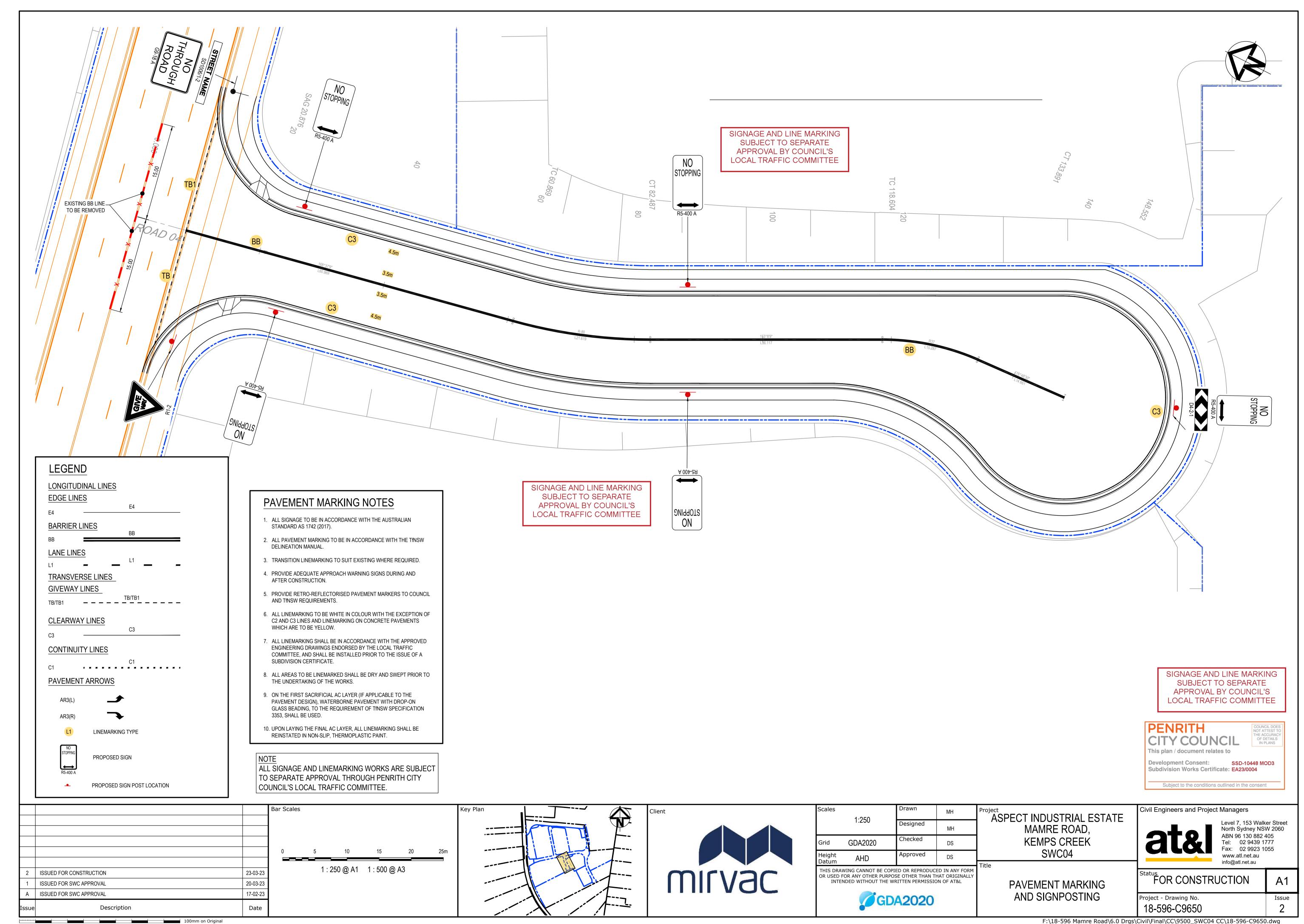
ASPECT INDUSTRIAL ESTATE MAMRE ROAD,
KEMPS CREEK
SWC04

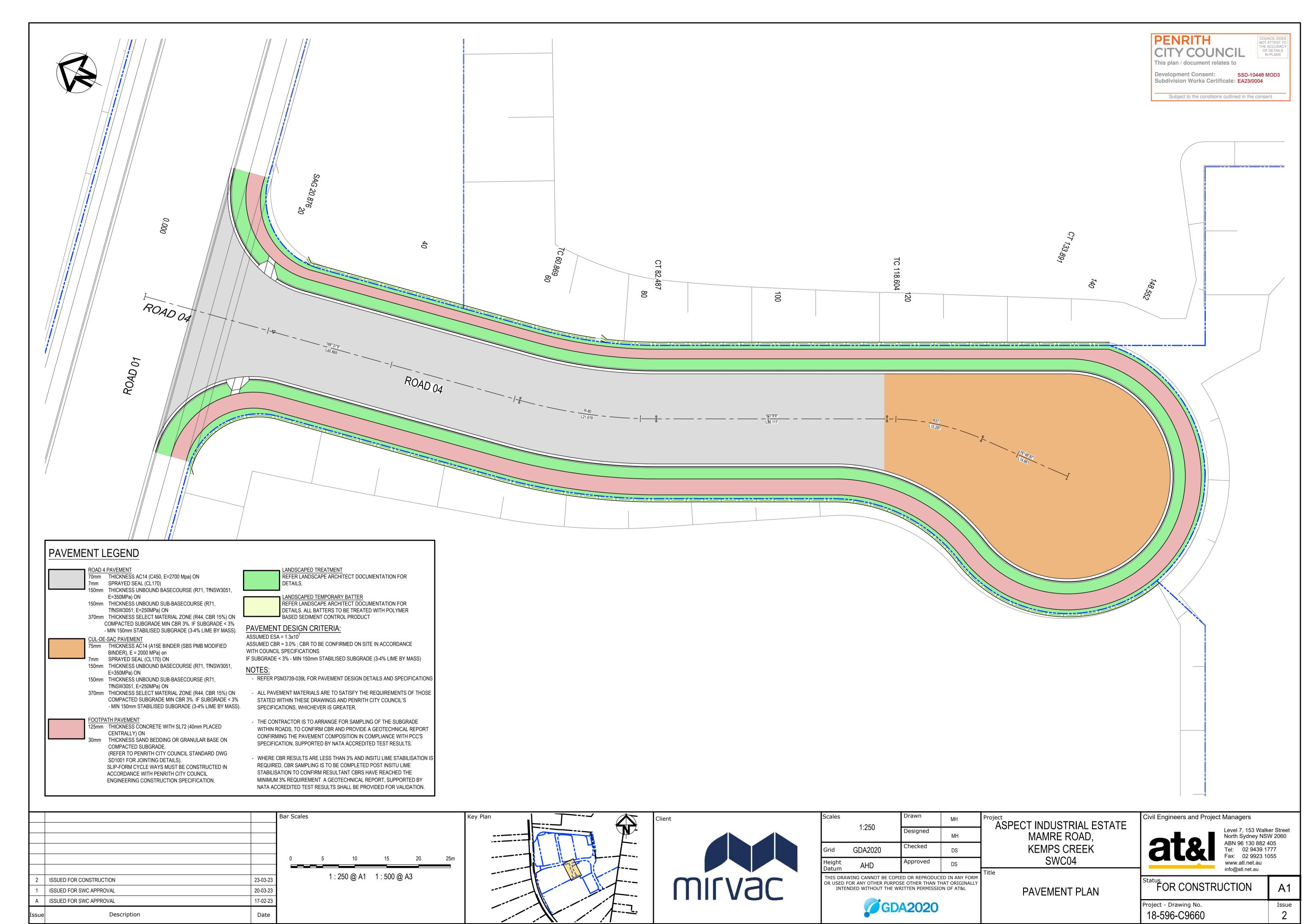
LONGITUDINAL SECTION

ROAD 4

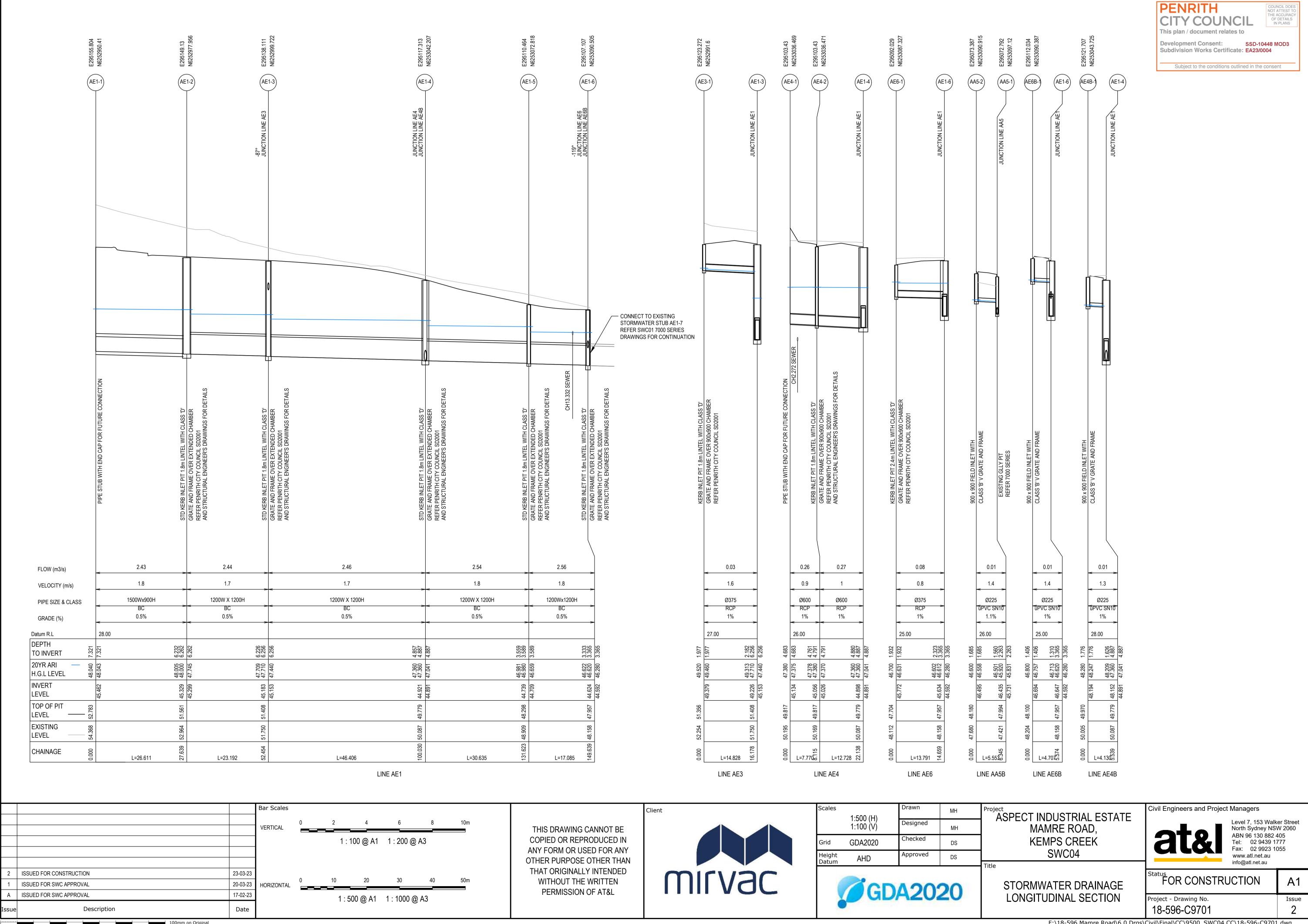
Civil Engineers and Project	Managers
at&I	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au

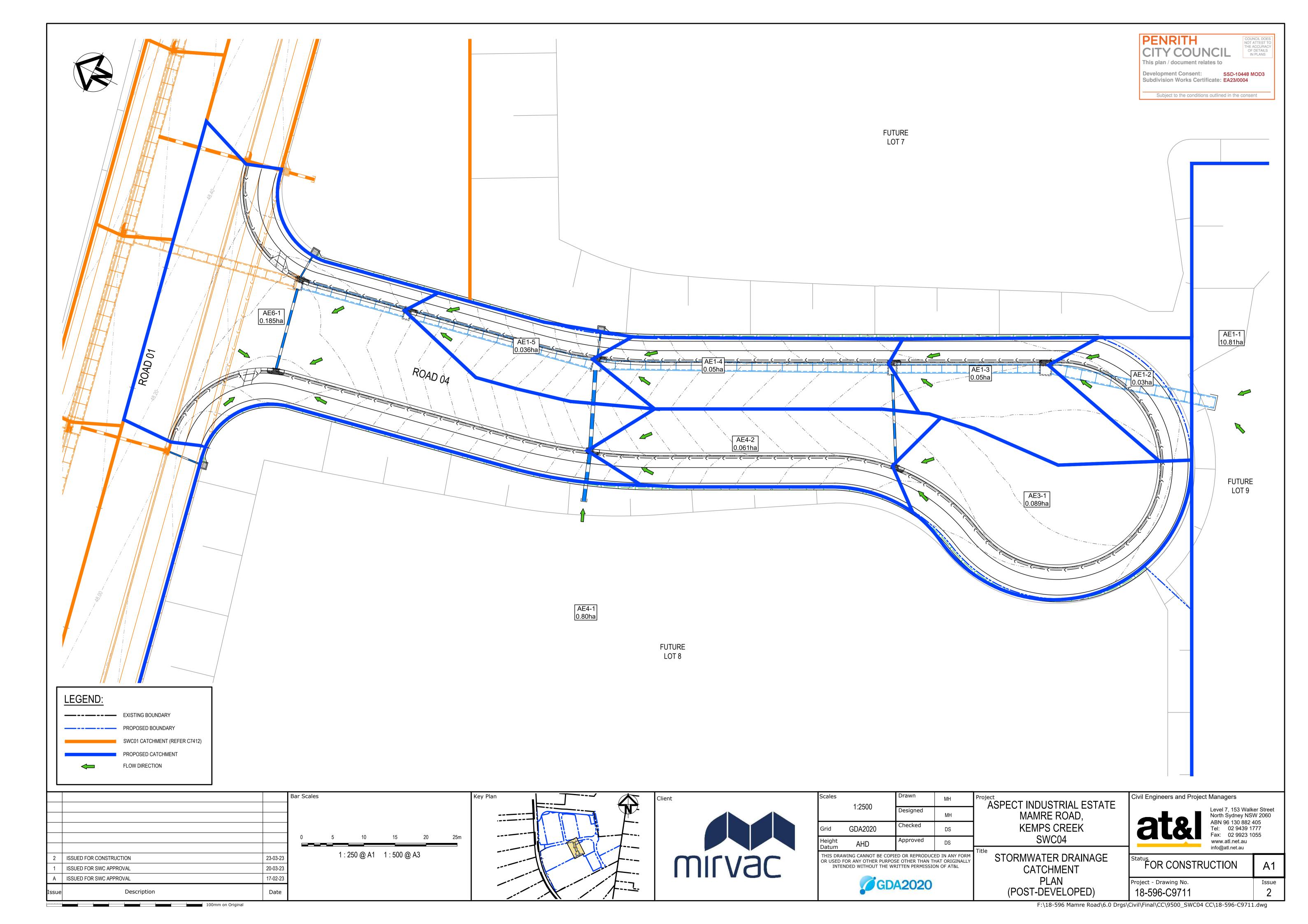
FOR CONSTRUCTION	A1
Project - Drawing No.	Issue
18-596-C9631	2



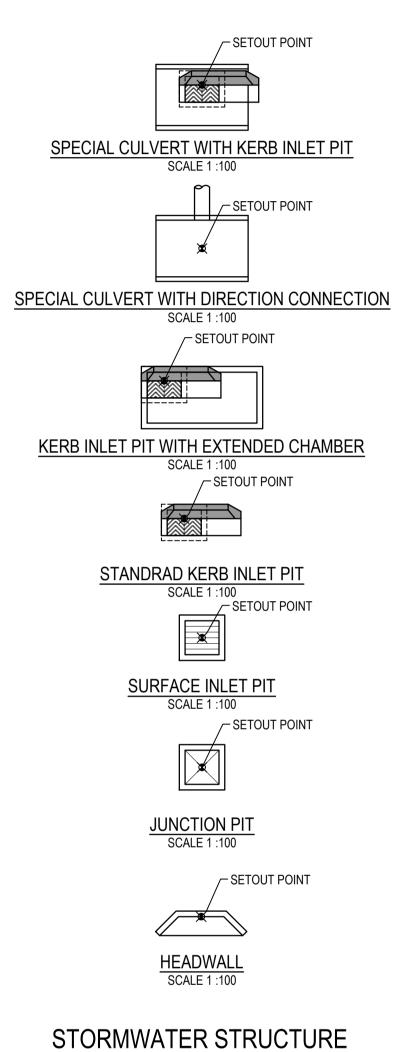


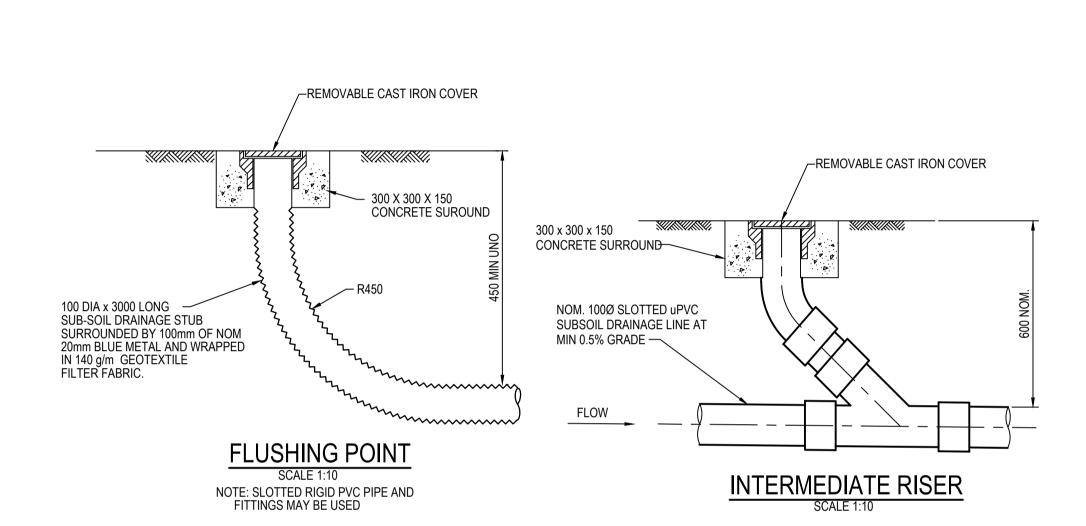
100mm on Original

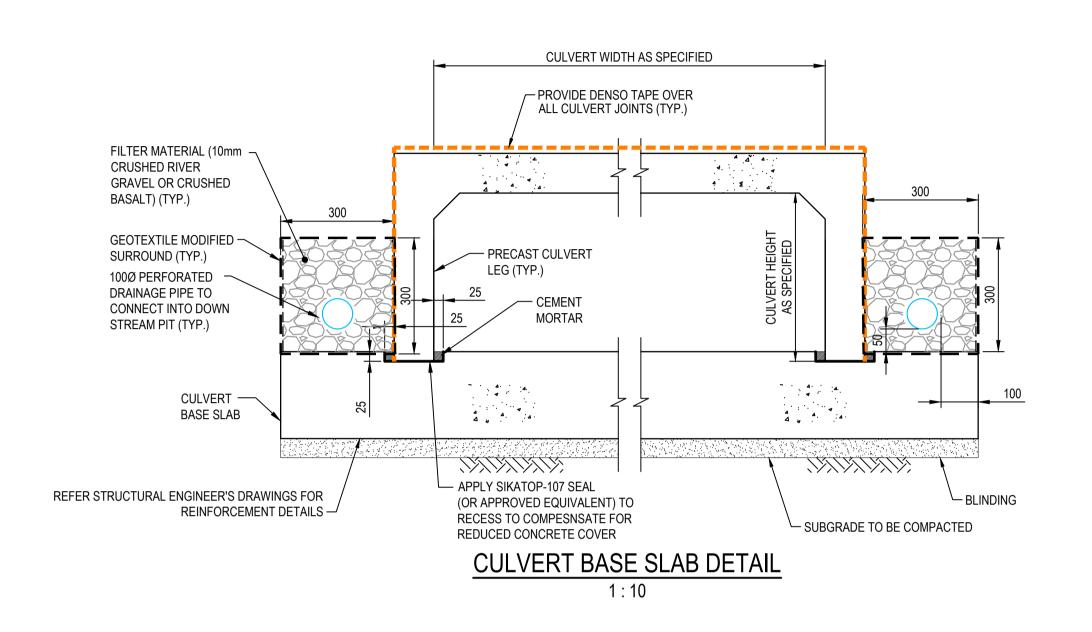






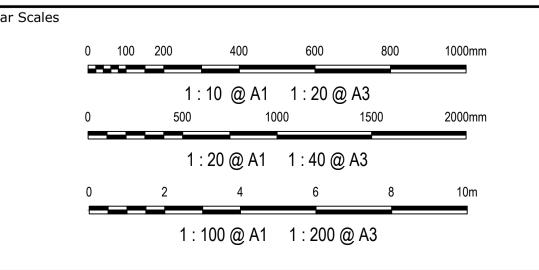






		E
2	ISSUED FOR CONSTRUCTION	23-03-23
1	ISSUED FOR SWC APPROVAL	20-03-23
Α	ISSUED FOR SWC APPROVAL	17-02-23
Issue	Description	Date

SETOUT POINTS



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

ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04
tle

STORMWATER DRAINAGE

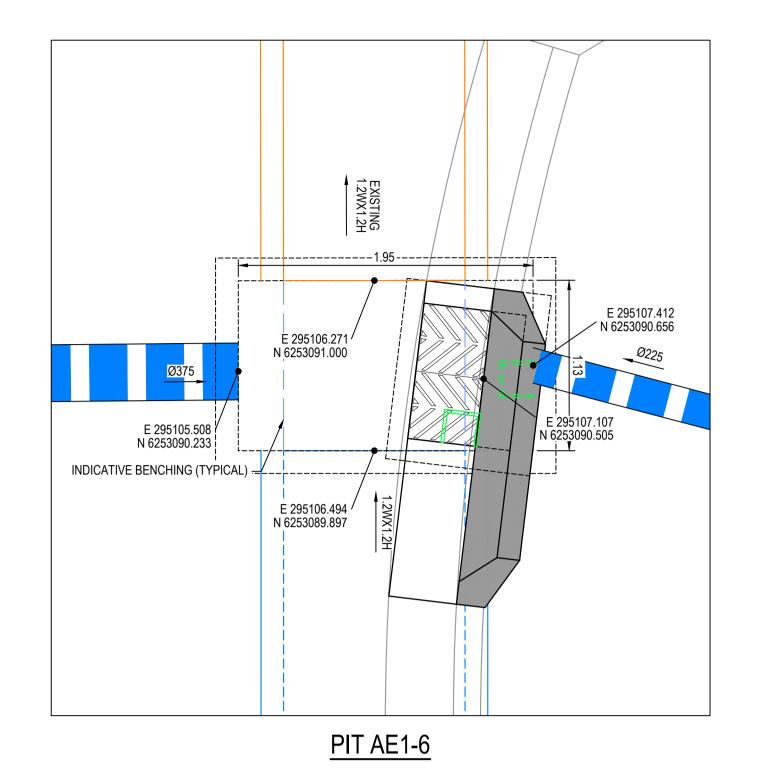
DETAILS

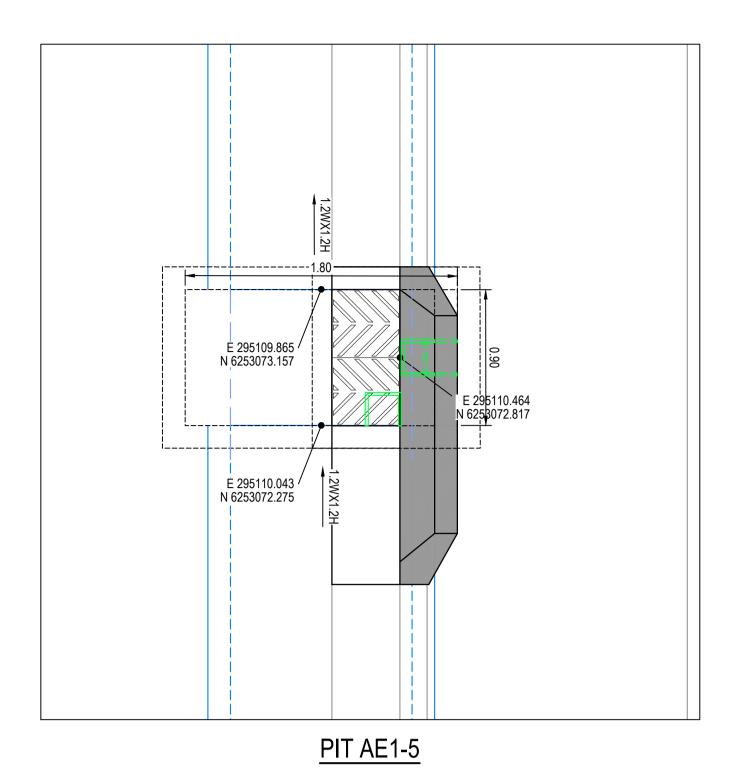
Status FOR CO

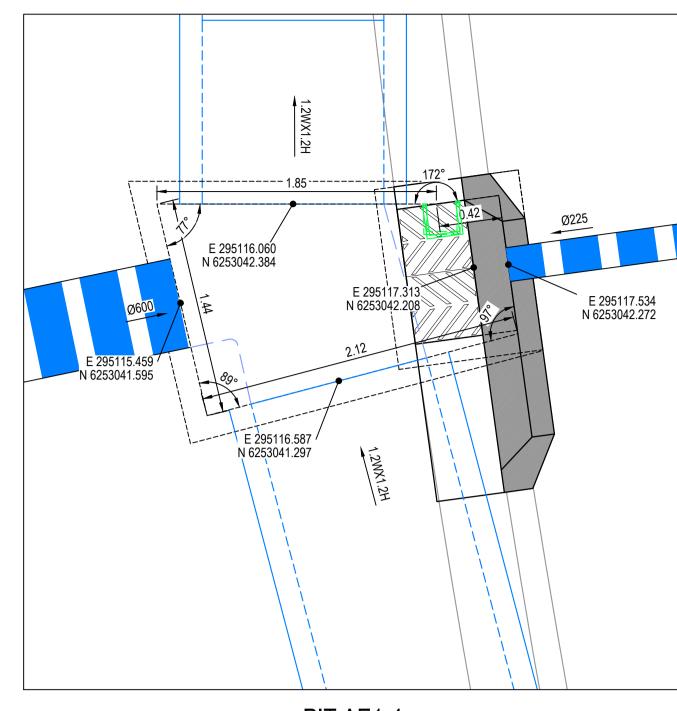
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au

FOR CONSTRUCTION	A1
oject - Drawing No.	Issue
18-596-C9721	2

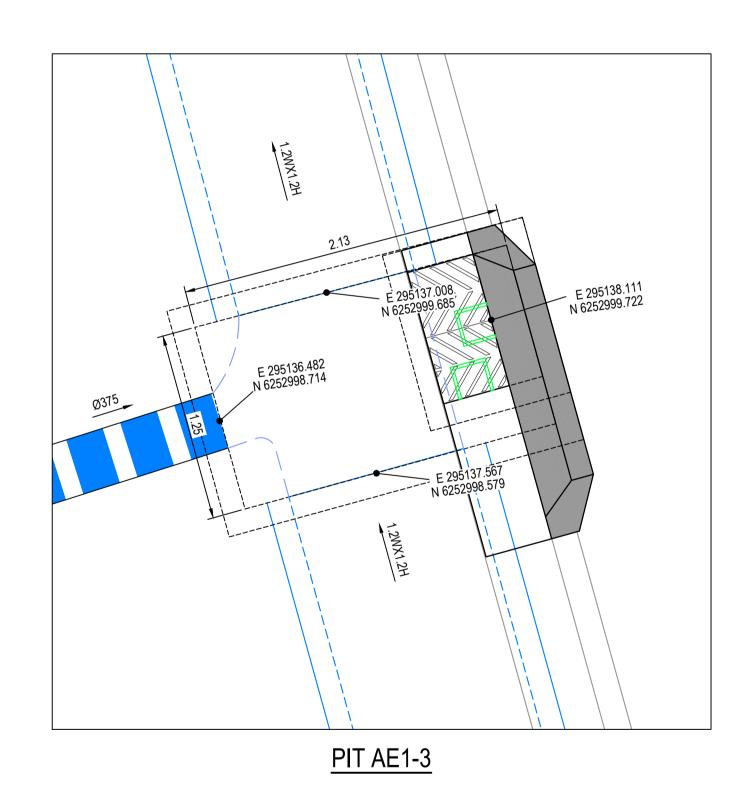
Civil Engineers and Project Managers

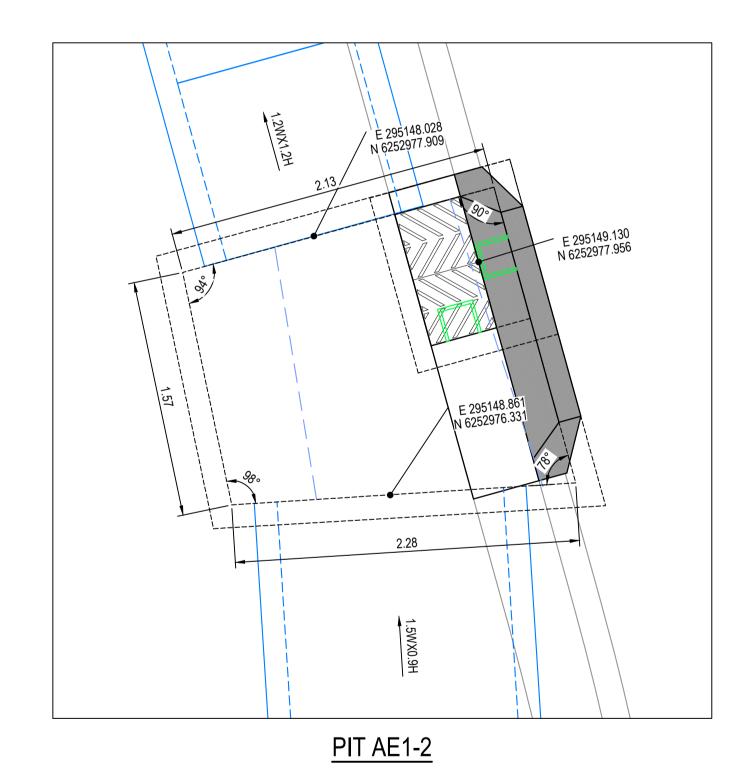






PIT AE1-4





2.5m

STORMWATER NOTES:

- STORMWATER PIT CHAMBER DIMENSIONS SHOWN ON THIS PLAN ARE SHOWN AS A GUIDE ONLY. CONTRACTOR TO CONFIRM CHAMBER DIMENSIONS ON SITE WITH SITE SUPERINTENDENT
- ALL PITS TO HAVE MASS CONCRETE (N20) BENCHING TO ENSURE SMOOTH FLOW & SMOOTH TRANSITION FROM ENTRY PIPES TO EXIT PIPES.
- BENCHING MUST BE PLACED TO ENSURE SURFACE IS SMOOTH & FREE FROM VOIDS AND CRACKS.
- BENCHING MUST BE A MIN. HEIGHT EQUAL TO HALF THE BARREL OF THE PIPE.
- ENSURE ALL STEP IRONS ARE LOCATED ON THE CLOSEST FACE TO THE OPENING TO ALLOW FREE ACCESS TO THE CHAMBER.
- WHERE SUBSOIL IS INSTALLED INTO THE PIT, EXTEND SUBSOIL THROUGH BENCHING TO DISCHARGE FREELY INTO CHAMBER.
- PIT WIDTHS ARE TO ALLOW FOR PIPE DIAMETER + 150mm TO PIT WALL MIN. IF IN DOUBT, SEEK CLARIFICATION FROM THE SUPERINTENDENT.

		Bar Scales
		0 0.5 1 1.5 2
		1 : 25 @ A1 1 : 50 @ A3
		North Point
2	ISSUED FOR CONSTRUCTION	23-03-23
1	ISSUED FOR SWC APPROVAL	20-03-23
Α	ISSUED FOR SWC APPROVAL	17-02-23
Issu	e Description	Date



Scales 1:25		Drawn	MH
	1.20	Designed	MH
Grid	GDA2020	Checked	DS
Height Datum	AHD	Approved	DS

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GDA2020

ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04

STRUCTURE SETOUT DETAILS

Civil Engineers and Proje	ct Manag
atel	Level 7 North 9 ABN 9

PENRITH

CITY COUNCIL This plan / document relates to

Subdivision Works Certificate: EA23/0004

Subject to the conditions outlined in the consent

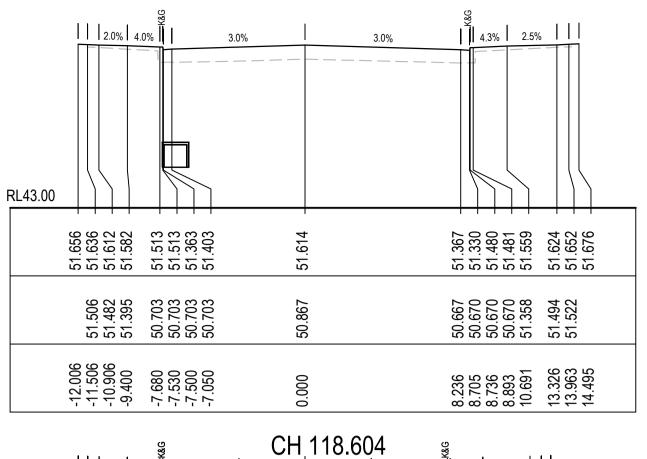
SSD-10448 MOD3

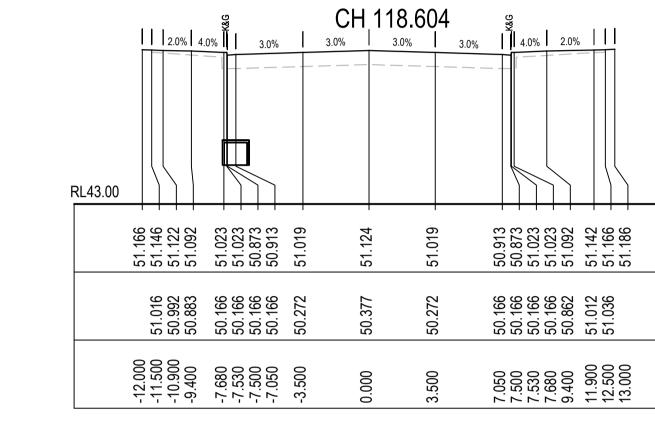
Development Consent:

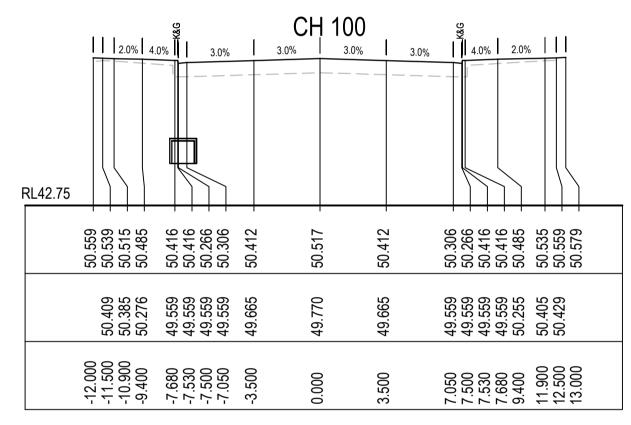
#vel 7, 153 Walker Street Forth Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055

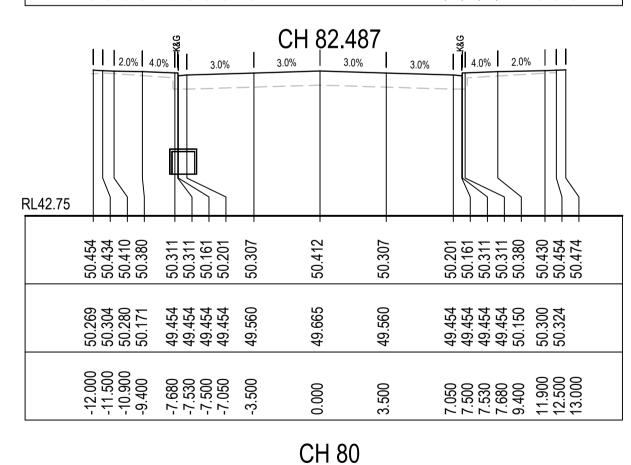
FOR CONSTRUCTION	
Project - Drawing No.	
18-596-C9731	



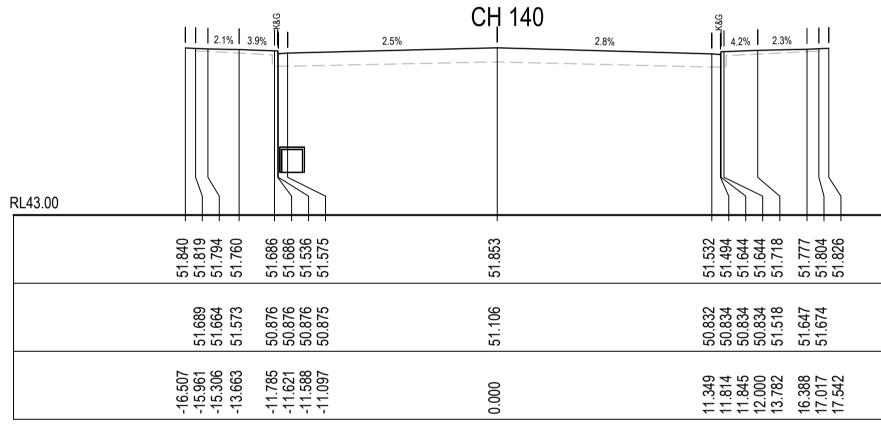


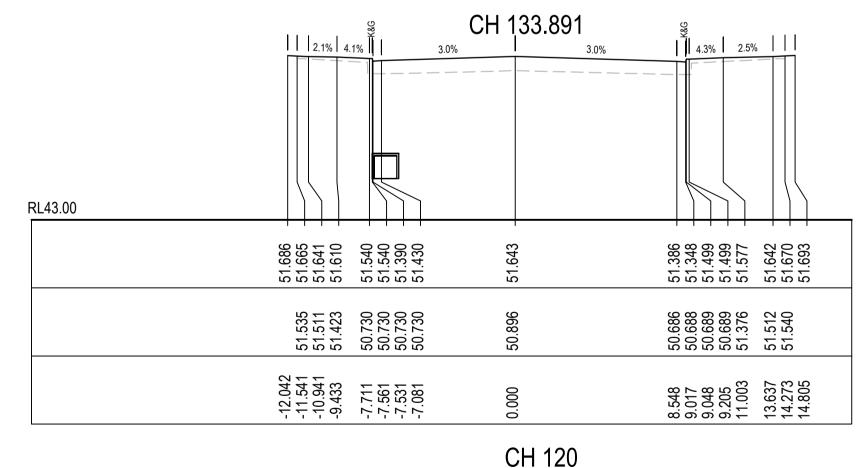






		9 9 1	2.2%	2.3%		.
RL48.75	12.176 3.3	9%				
	51.879 51.857 51.832 51.798	51.725 51.725 51.575 51.613	51914		51.596 51.558 51.708 51.709 51.785	51.842 51.887 51.888
	51.727 51.702 51.612	50.915 50.915 50.915 50.913	51.167		50.896 50.898 50.898 50.899 51.584	51.712
	-19.183 -18.637 -17.982 -16.341	-14.463 -14.299 -14.267 -13.775	0000		13.637 14.142 14.176 14.344 16.292	19.070 19.726 20.270
			OI.	1.4.40		





		% 0.5%	CH	40	K&G	
RL42.50	2.0% 4.0	0.5%	0.5%	3.0% 3	4.0%	2.0%
PROPOSED SURFACE LEVEL	48.262 - 48.242 - 48.218 - 48.188 -	48.119 - 48.119 - 47.969 - 48.009 - 47.903	- 77.977	47.872 -	47.765 - 47.725 - 47.875 -	47.944 - 47.994 - 47.994 - 48.018 - 48.038 -
EXISTING SURFACE LEVEL	48.112 48.088 47.979	47.262 47.262 47.262 47.262 47.262	47.230	47.125	47.018 47.018 47.018	47.715 47.864 47.888
CENTRELINE OFFSET	-12.000 -11.500 -10.900 -9.400	-7.680 -7.530 -7.500 -7.050	0.000	3.500	7.050 7.500 7.530	7.680 9.400 11.900 12.500 13.000
			СН	25		

 $\begin{bmatrix} 1 & 2.0\% & 4.0\% & 3.0\% & 3.0\% & 3.0\% & 3.0\% & 3.0\% & 3.0\% & 1 \end{bmatrix} \begin{bmatrix} \frac{3}{2} & 4.0\% & 2.0\% & 1 \end{bmatrix}$

CH 60.869 2.0% 4.0% 3.0% 3.0% 3.0% 3.0% 4.0% 4.0% 2.0%

CH 60

49.337

49.274 49.234 49.384 49.384 49.452 49.526 49.526

48.527 48.527 48.527 48.527 49.223 49.372 49.396

7.050 7.500 7.530 7.680 9.400 11.900 12.500

49.230 49.190 49.340 49.340 49.409 49.483 49.483

48.483 48.483 48.483 48.483 49.179 49.329

7.050 7.500 7.530 7.680 9.400 11.900 13.000

230 190 340 340 459 459 483 503

84848484848

47.483 47.483 47.483 47.483 48.179 48.329 48.353

7.050 7.500 7.530 7.680 9.400 11.900 12.500

RL42.75

RL42.75

RL42.50

-12.000 -11.500 -10.900 -9.400 -7.680 -7.530 -7.500 -7.500

49.483 49.463 49.439 49.409 49.340 49.340 49.230 49.337

-12.000 -11.500 -10.900 -9.400 -7.680 -7.530 -7.500 -7.500

.618 .574 .574 .475 .475 .325 .365

-12.000 -11.500 -10.900 -9.400 -7.680 -7.530 -7.500 -3.500

			Bar Scales					
				0	5	10	1	5
					4 000 0	A 4	4 400 0 40	`
2	ISSUED FOR CONSTRUCTION	23-03-23		1 : 200 @ A1 1 : 400 @ A3				3
1	ISSUED FOR SWC APPROVAL	20-03-23						
Α	ISSUED FOR SWC APPROVAL	17-02-23						

Date

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Scales	1:200	Drawn	MH	
	1.200	Designed	MH	
Grid	GDA2020	Checked	DS	
Height Datum	AHD	Approved	DS	

SWC04 ROAD CROSS SECTIONS ROAD 04

Title

ASPECT INDUSTRIAL ESTATE

MAMRE ROAD,

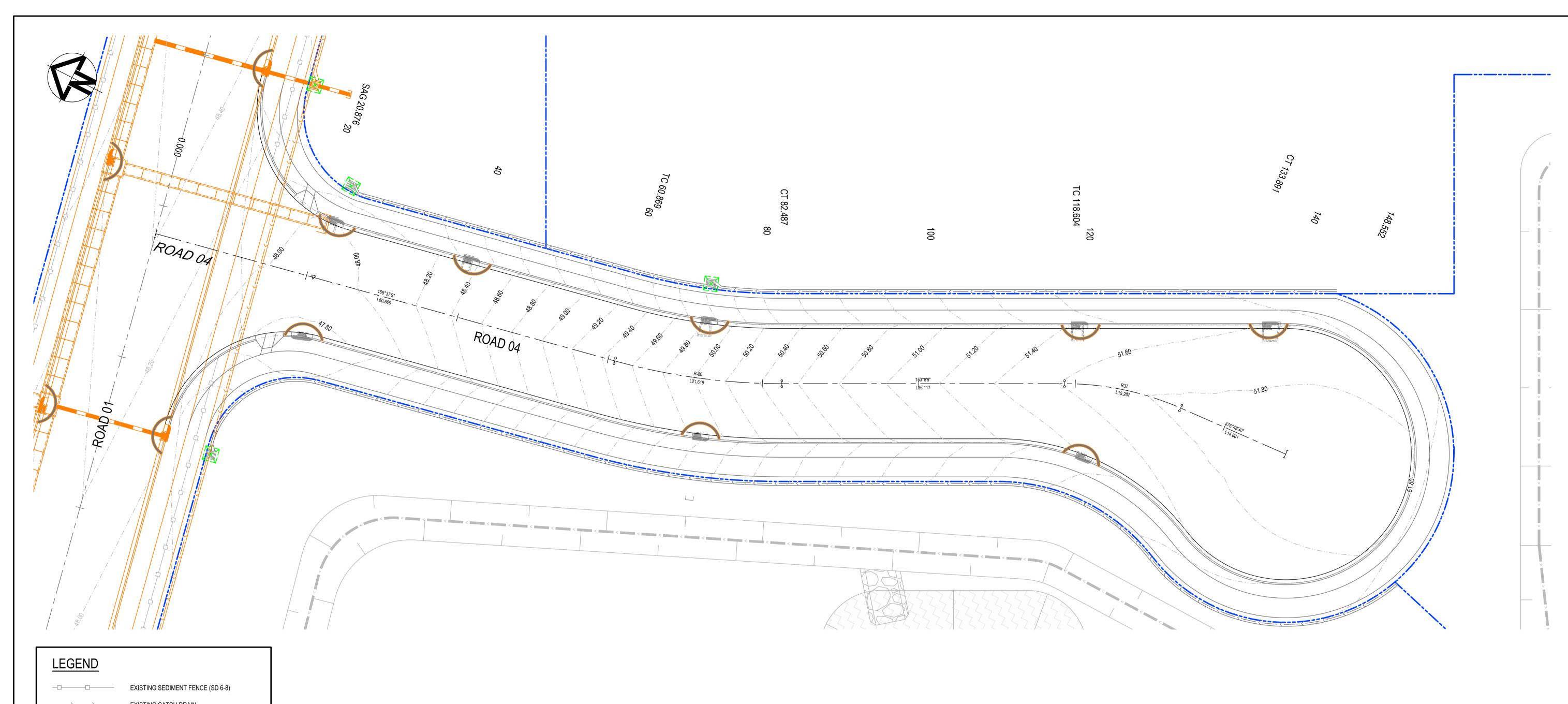
KEMPS CREEK

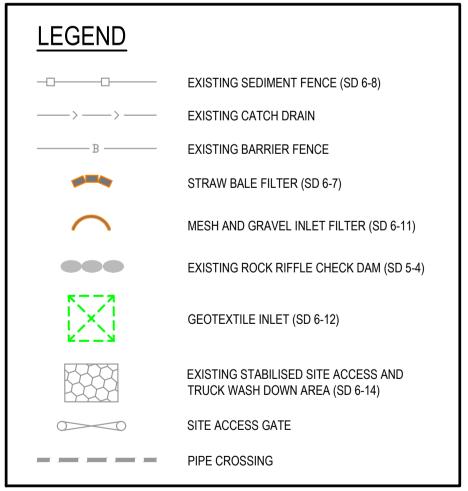
Civil Engineers and Project Managers	
at&	Level 7, 153 North Sydney ABN 96 130 Tel: 02 94 Fax: 02 99 www.atl.net.ainfo@atl.net.a
	ii ii o (wati. ii o t. c

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

FOR CONSTRUCTION	A1
Project - Drawing No.	Issue
18-596-C9801	2

Description





NOTE:

ISSUED FOR SWC APPROVAL

REFER TO C6000 PACKAGE ALSO FOR EROSION AND SEDIMENT CONTROL DETAILS DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.

8. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC

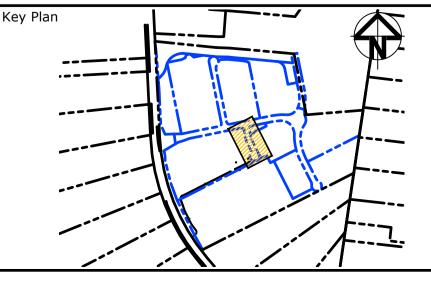
Description

ISSUED FOR CONSTRUCTION 23-03-23 20-03-23 ISSUED FOR SWC APPROVAL

Bar Scales 15 20 25m 1 : 250 @ A1 1 : 500 @ A3

17-02-23

Date





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

Title

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ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04

> **EROSION AND** SEDIMENT CONTROL PLAN

Development Consent: SSD-10448 MOD3 Subdivision Works Certificate: EA23/0004 Subject to the conditions outlined in the consent

Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405

CITY COUNCIL

This plan / document relates to

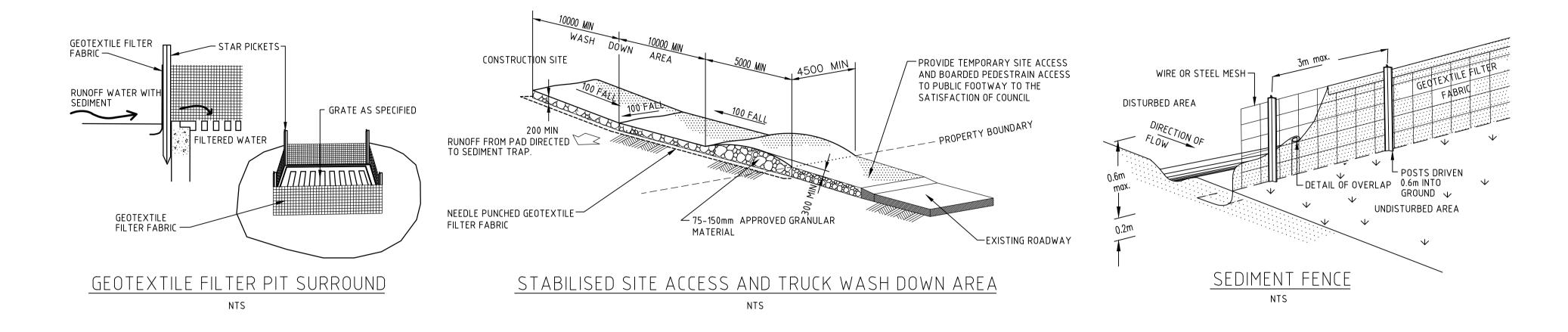


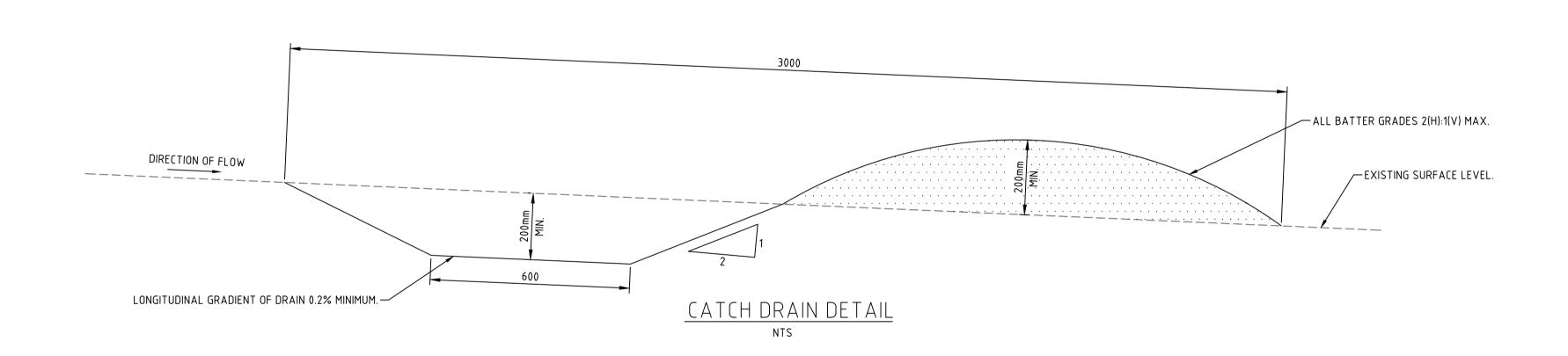
PENRITH

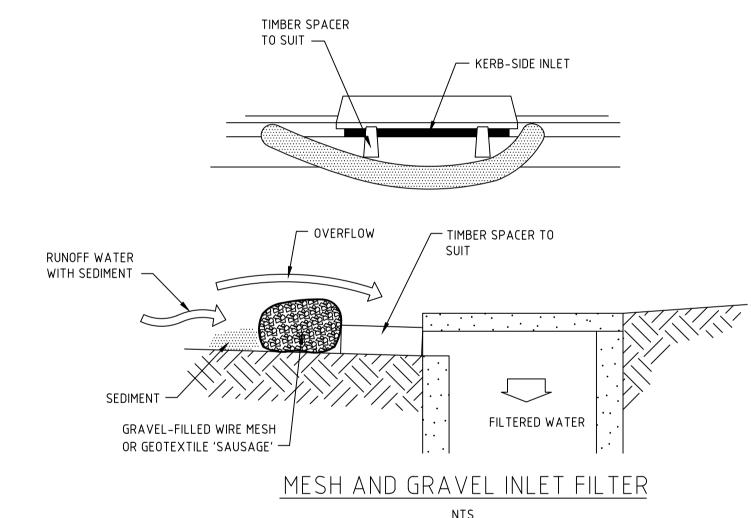
Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au FOR CONSTRUCTION

Issue

Project - Drawing No. 18-596-C9851







			Bar Scales
2	ISSUED FOR CONSTRUCTION	23-03-23	
1	ISSUED FOR SWC APPROVAL	20-03-23	
Α	ISSUED FOR SWC APPROVAL	17-02-23	
Issue	Description	Date	

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

KEMPS CREEK SWC04
EROSION AND SEDIMENT CONTROL

DETAILS

roject	Civil Engineers and Proje	ct Managers
ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK SWC04	at&l	Level 7, 153 Walker Str North Sydney NSW 206 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au

info@atl.net.au

	CONSTRUCTION
Project - Draw	ing No.
18-596-0	9860

