

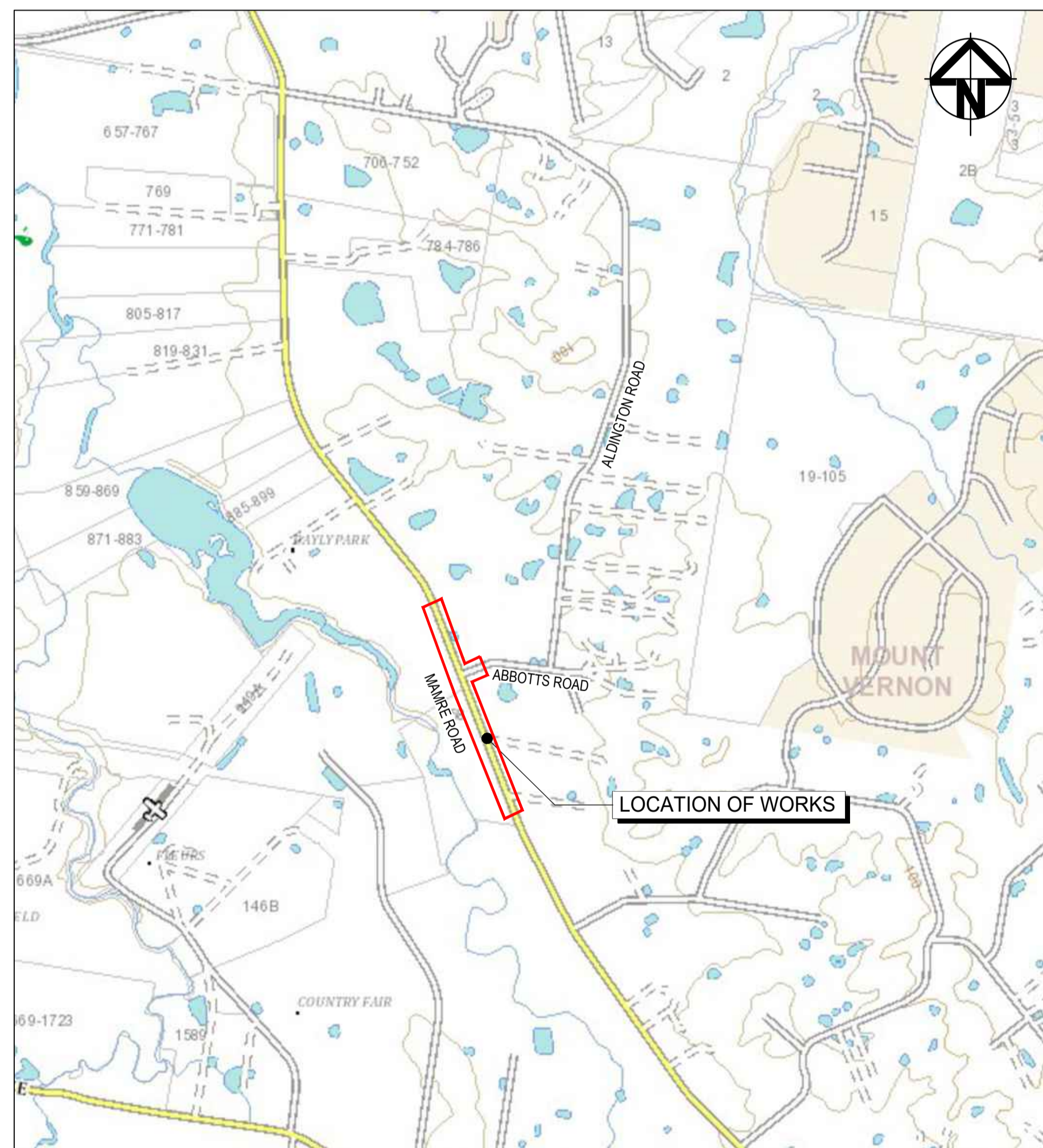
MR536 MAMRE ROAD AND ABBOTTS ROAD

KEMPS CREEK

2000 SERIES - PROPOSED SIGNALISED INTERSECTION

CIVIL WORKS PACKAGE

80% DETAILED DESIGN



LOCALITY PLAN
NTS

CODE INDEX	
CODE	NAME
GE	GENERAL
RD	ROAD WORKS
RL	ROAD LONG SECTIONS
RC	ROAD CROSS SECTIONS
UT	UTILITIES
SM	STORMWATER MANAGEMENT
PV	PAVEMENT
RF	ROAD FURNITURE
MS	MISCELLANEOUS / SUPPLEMENTARY



CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	NTS	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
NSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title

COVER SHEET

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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	GE-2000	Issue
		1

DRAWING LIST

GENERAL ARRANGEMENT PLAN	
GE-2000	COVER SHEET
GE-2001	DRAWING LIST
GENERAL NOTES	
GE-2002	GENERAL NOTES SHEET 1
GE-2003	GENERAL NOTES SHEET 2
GENERAL ARRANGEMENT PLAN	
GE-2005	GENERAL ARRANGEMENT PLAN
TYPICAL CROSS SECTIONS AND DETAILS	
GE-2011	TYPICAL CROSS SECTIONS SHEET 1
GE-2012	TYPICAL CROSS SECTIONS SHEET 2
GE-2013	TYPICAL CROSS SECTIONS SHEET 3
GE-2014	TYPICAL CROSS SECTIONS SHEET 4
GE-2021	TYPICAL DETAILS
ROAD AND KERB ALIGNMENT PLAN	
RD-2051	ALIGNMENT CONTROL PLAN SHEET 1
RD-2052	ALIGNMENT CONTROL PLAN SHEET 2
RD-2053	ALIGNMENT CONTROL PLAN SHEET 3
RD-2054	ALIGNMENT CONTROL PLAN SHEET 4
RD-2055	ALIGNMENT CONTROL PLAN SHEET 5
RD-2056	ALIGNMENT CONTROL PLAN SHEET 6
RD-2057	ALIGNMENT CONTROL PLAN SHEET 7
RD-2058	ALIGNMENT CONTROL PLAN SHEET 8
ROAD WORKS	
RD-2101	ROADWORKS PLAN SHEET 1
RD-2102	ROADWORKS PLAN SHEET 2
RD-2103	ROADWORKS PLAN SHEET 3
RD-2104	ROADWORKS PLAN SHEET 4
RD-2105	ROADWORKS PLAN SHEET 5
RD-2106	ROADWORKS PLAN SHEET 6
RD-2107	ROADWORKS PLAN SHEET 7
RD-2108	ROADWORKS PLAN SHEET 8
LONGITUDINAL SECTIONS	
RL-2121	ROAD LONGITUDINAL SECTION MC01 SHEET 1
RL-2122	ROAD LONGITUDINAL SECTION MC01 SHEET 2
RL-2123	ROAD LONGITUDINAL SECTION MC01 SHEET 3
RL-2124	ROAD LONGITUDINAL SECTION MC01 SHEET 4
RL-2125	ROAD LONGITUDINAL SECTION MC01 SHEET 5
RL-2131	ROAD LONGITUDINAL SECTION MC02 SHEET 1
RL-2132	ROAD LONGITUDINAL SECTION MC02 SHEET 2
RL-2133	ROAD LONGITUDINAL SECTION MC02 SHEET 3
RL-2141	ROAD LONGITUDINAL SECTION MC03
RL-2151	KERB LONGITUDINAL SECTION MK01
RL-2152	KERB LONGITUDINAL SECTION MK02
RL-2153	KERB LONGITUDINAL SECTION MK03 SHEET 1
RL-2154	KERB LONGITUDINAL SECTION MK03 SHEET 2
RL-2155	KERB LONGITUDINAL SECTION MK04
RL-2156	KERB LONGITUDINAL SECTION MS01
RL-2157	KERB LONGITUDINAL SECTION MS02
RL-2158	KERB LONGITUDINAL SECTION MS03
RL-2159	KERB LONGITUDINAL SECTION MS04 SHEET 1
RL-2160	KERB LONGITUDINAL SECTION MS04 SHEET 2
ROAD CROSS SECTIONS	
RC-2201	ROAD CROSS SECTIONS MC01 SHEET 1
RC-2202	ROAD CROSS SECTIONS MC01 SHEET 2
RC-2203	ROAD CROSS SECTIONS MC01 SHEET 3
RC-2204	ROAD CROSS SECTIONS MC01 SHEET 4
RC-2205	ROAD CROSS SECTIONS MC01 SHEET 5
RC-2206	ROAD CROSS SECTIONS MC01 SHEET 6
RC-2207	ROAD CROSS SECTIONS MC01 SHEET 7
RC-2208	ROAD CROSS SECTIONS MC01 SHEET 8
RC-2209	ROAD CROSS SECTIONS MC01 SHEET 9
RC-2210	ROAD CROSS SECTIONS MC01 SHEET 10
RC-2211	ROAD CROSS SECTIONS MC01 SHEET 11
RC-2212	ROAD CROSS SECTIONS MC01 SHEET 12
RC-2213	ROAD CROSS SECTIONS MC01 SHEET 13
RC-2214	ROAD CROSS SECTIONS MC01 SHEET 14
RC-2215	ROAD CROSS SECTIONS MC01 SHEET 15
RC-2216	ROAD CROSS SECTIONS MC01 SHEET 16

RC-2217	ROAD CROSS SECTIONS MC01 SHEET 17
RC-2218	ROAD CROSS SECTIONS MC01 SHEET 18
RC-2219	ROAD CROSS SECTIONS MC01 SHEET 19
RC-2222	ROAD CROSS SECTIONS MC03 SHEET 1
RC-2223	ROAD CROSS SECTIONS MC03 SHEET 2
UTILITIES COORDINATION PLAN	
UT-2301	UTILITIES PLAN SHEET 1
UT-2302	UTILITIES PLAN SHEET 2
UT-2303	UTILITIES PLAN SHEET 3
UT-2304	UTILITIES PLAN SHEET 4
UT-2305	UTILITIES PLAN SHEET 5
UT-2306	UTILITIES PLAN SHEET 6
UT-2307	UTILITIES PLAN SHEET 7
UT-2308	UTILITIES PLAN SHEET 8
UT-2311	UTILITIES TYPICAL SECTIONS SHEET 1
UT-2312	UTILITIES TYPICAL SECTIONS SHEET 2
STORMWATER MANAGEMENT	
SM-2401	STORMWATER MANAGEMENT PLAN SHEET 1
SM-2402	STORMWATER MANAGEMENT PLAN SHEET 2
SM-2403	STORMWATER MANAGEMENT PLAN SHEET 3
SM-2404	STORMWATER MANAGEMENT PLAN SHEET 4
SM-2405	STORMWATER MANAGEMENT PLAN SHEET 5
SM-2406	STORMWATER MANAGEMENT PLAN SHEET 6
SM-2407	STORMWATER MANAGEMENT PLAN SHEET 7
SM-2408	STORMWATER MANAGEMENT PLAN SHEET 8
SM-2411	PRE-DEVELOPED STORMWATER CATCHMENT PLAN
SM-2421	STORMWATER CATCHMENT PLAN SHEET 1
SM-2422	STORMWATER CATCHMENT PLAN SHEET 2
SM-2423	STORMWATER CATCHMENT PLAN SHEET 3
SM-2424	STORMWATER CATCHMENT PLAN SHEET 4
SM-2431	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1
SM-2432	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2
SM-2433	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3
SM-2441	STORMWATER DRAINAGE PIT SCHEDULE
SM-2451	STORMWATER DRAINAGE DETAILS SHEET 1
SM-2452	STORMWATER DRAINAGE DETAILS SHEET 2
SM-2453	STORMWATER DRAINAGE DETAILS SHEET 3
SM-2454	STORMWATER DRAINAGE DETAILS SHEET 4
SM-2455	STORMWATER DRAINAGE DETAILS SHEET 5
SM-2461	STORMWATER DRAINAGE ANALYSIS TABLE SHEET 1
SM-2462	STORMWATER DRAINAGE ANALYSIS TABLE SHEET 2
SM-2463	STORMWATER DRAINAGE ANALYSIS TABLE SHEET 3
SM-2481	SUBSURFACE DRAINAGE PLAN SHEET 1
SM-2482	SUBSURFACE DRAINAGE PLAN SHEET 2
SM-2483	SUBSURFACE DRAINAGE PLAN SHEET 3
SM-2484	SUBSURFACE DRAINAGE PLAN SHEET 4
SM-2491	STORMWATER SWALE SECTIONS SHEET 1
SM-2492	STORMWATER SWALE SECTIONS SHEET 2
SM-2493	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 1
SM-2494	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 2
SM-2495	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 3
SM-2496	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 4
SM-2497	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 5
SM-2498	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 6
PAVEMENT	
PV-2501	PAVEMENT PLAN SHEET 1
PV-2502	PAVEMENT PLAN SHEET 2
PV-2503	PAVEMENT PLAN SHEET 3
PV-2504	PAVEMENT PLAN SHEET 4
PV-2505	PAVEMENT PLAN SHEET 5
PV-2506	PAVEMENT PLAN SHEET 6
PV-2507	PAVEMENT PLAN SHEET 7
PV-2508	PAVEMENT PLAN SHEET 8
PV-2520	PAVEMENT PROFILES
PV-2521	PAVEMENT EDGE DETAILS
PV-2522	PAVEMENT INTERFACE DETAILS
ROAD FURNITURE, SIGNAGE AND LINEMARKING	
RF-2601	SIGNAGE AND LINEMARKING PLAN SHEET 1
RF-2602	SIGNAGE AND LINEMARKING PLAN SHEET 2

RF-2603	SIGNAGE AND LINEMARKING PLAN SHEET 3
RF-2604	SIGNAGE AND LINEMARKING PLAN SHEET 4
RF-2605	SIGNAGE AND LINEMARKING PLAN SHEET 5
RF-2606	SIGNAGE AND LINEMARKING PLAN SHEET 6
RF-2607	SIGNAGE AND LINEMARKING PLAN SHEET 7
RF-2608	SIGNAGE AND LINEMARKING PLAN SHEET 8
RF-2701	ROAD FURNITURE PLAN SHEET 1
RF-2702	ROAD FURNITURE PLAN SHEET 2
RF-2703	ROAD FURNITURE PLAN SHEET 3
RF-2704	ROAD FURNITURE PLAN SHEET 4
RF-2705	ROAD FURNITURE PLAN SHEET 5
RF-2706	ROAD FURNITURE PLAN SHEET 6
RF-2707	ROAD FURNITURE PLAN SHEET 7
RF-2708	ROAD FURNITURE PLAN SHEET 8
RF-2710	ROAD FURNITURE DETAILS
MISCELLANEOUS/SUPPLEMENTARY	
MS-2801	VEHICLE TURN PATH PLAN SHEET 1
MS-2802	VEHICLE TURN PATH PLAN SHEET 2
MS-2803	VEHICLE TURN PATH PLAN SHEET 3
MS-2804	VEHICLE TURN PATH PLAN SHEET 4
MS-2805	VEHICLE TURN PATH PLAN SHEET 5
MS-2806	VEHICLE TURN PATH PLAN SHEET 6
MS-2901	MAINTENANCE PLAN SHEET 1
MS-2902	MAINTENANCE PLAN SHEET 2
MS-2903	MAINTENANCE PLAN SHEET 3
MS-2904	MAINTENANCE PLAN SHEET 4

1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales: NTS

Grid: GDA2020

Height Datum: AHD

TfNSW REGISTRATION No. DS2000/000000

Drawn: GB

Designed: GB

Checked: AL

Approved:

Project: MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title: DRAWING LIST

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. GE-2001

Issue: 1

CIVIL WORKS GENERAL NOTES

GENERAL NOTES

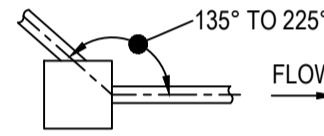
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL RELEVANT CODES OR PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF ALL STATUTORY AUTHORITIES WHERE APPLICABLE.
- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER SPECIFICATIONS FOR THE PROJECT.
- LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- CO-ORDINATES ARE TO MAP GRID AUSTRALIA (MGA) **GDA 2020 CO-ORDINATE SYSTEM** (ZONE 56).
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE U.N.O. ALL LEVELS, CHAINAGES, STATIONS AND CO-ORDINATES ARE EXPRESSED IN METRES.
- WHERE REFERENCE IS MADE TO PROPRIETARY COMPONENT NAMES ON THE DRAWINGS THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE PRODUCT PROVIDED THE ALTERNATIVE IS EQUIVALENT AND SATISFIES THE REQUIREMENTS OF THE SPECIFICATION AND IS APPROVED BY TNSW.
- ACCESS TO PROPERTIES TO BE MADE AVAILABLE BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION U.N.O.
- ALL WORK TO BE UNDERTAKEN IN ACCORDANCE WITH THE VERSION OF TNSW STANDARDS LATEST AT THE TIME OF TENDER U.N.O.
- WHERE AREAS ARE SHOWN AS BEING "ON HOLD" ON PLANS, ALL CORRESPONDING LONGITUDINAL SECTIONS, CROSS SECTIONS, DRAINAGE, PAVEMENTS AND OTHER DETAILS RELATING TO THAT AREA SHALL ALSO BE DEEMED TO BE "ON HOLD" U.N.O.
- ALL WORKS WITHIN PROPERTY BOUNDARY SUBJECT TO AGREEMENT WITH PROPERTY OWNER.
- ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. REFER DISCREPANCIES TO THE PRINCIPAL'S REPRESENTATIVE. DO NOT OBTAIN DIMENSIONS FROM SCALING. EXISTING SURFACE LEVELS ON THE DRAWINGS ARE INDICATIVE ONLY.
- FOR TNSW STANDARD SUPPLEMENTARY DRAWING INDEX REFER DRAWING 21-843-C2003.

SAFETY - IN - DESIGN INFORMATION

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH TNSW STANDARD G22. THIS DOCUMENT LISTS SOME DESIGN RELATED WORK HEALTH AND SAFETY HAZARDS ASSOCIATED WITH THE PROJECT DESIGN, CONSTRUCTION AND OPERATION. THERE MAY BE OTHER HAZARDS AND RISKS NOT STATED IN THIS DOCUMENT. THIS DOCUMENT DOES NOT RELIEVE THE CONTRACTOR OF ITS OBLIGATIONS UNDER THE CONTRACT AND RELEVANT LEGISLATION.
- REFER TO SID REPORT AND THE DESIGN REPORT FOR SID INFORMATION.

DRAINAGE GENERAL

- THE DOCUMENTED DRAINAGE SYSTEM IS DETAILED ONLY FOR THE PERMANENT ROAD CONFIGURATION U.N.O. CONSTRUCTION REQUIREMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- PIPES THROUGH PITS ARE TO BE ALIGNED WITH UPSTREAM PIPE CENTRELINE TO OUTLET PIPE CENTRELINE AT DOWNSTREAM PIT FACE AS SHOWN:



- ANY PERMITS FOR DIVERSION WORKS REQUIRED DURING CONSTRUCTION SHALL BE OBTAINED PRIOR TO CONSTRUCTION WORKS BY THE CONTRACTOR FROM THE PRINCIPAL.
- EXISTING STORMWATER DRAINAGE PIPES AND MANHOLES WITHIN THE LIMITS OF WORK SHALL BE REMOVED OR MODIFIED AS SPECIFIED. ANY EXPOSED EXISTING REINFORCEMENT TO BE PROTECTED IN ACCORDANCE WITH REQUIREMENTS FOR NEW CONSTRUCTION.
- EXISTING STORMWATER PIPES OR CULVERTS THAT ARE IDENTIFIED TO BE ABANDONED SHALL BE REMOVED WITH APPROPRIATE TREATMENT AND IN ACCORDANCE WITH TNSW STANDARD SPECIFICATIONS.
- IN LOCATIONS WHERE NEW PAVEMENT OR ROAD WIDENING WORKS ARE PROPOSED, ANY NEW PIPES WITH LESS THAN 600 mm COVER BELOW FINISHED ROAD LEVEL SHALL BE CONCRETE ENCASED.
- DURING CONSTRUCTION ANY EXCAVATIONS SHALL BE SECURELY SHORED AND BENCHED TO PREVENT THE SIDES OF THE EXCAVATION FROM COLLAPSING. ALL TRENCHES SHALL BE SHORED OR BENCHED TO COMPLY WITH THE NSW CONSTRUCTION SAFETY ACT.

LONGITUDINAL AND TRANSVERSE PAVEMENT DRAINAGE

- ALL PIPES ARE TO BE STEEL REINFORCED SPUN CONCRETE (U.N.O). ALL CONCRETE PIPES TO HAVE H33 TYPE INSTALLATION AS PER TNSW R0240-01.
- ALL NEW LONGITUDINAL DRAINAGE TRENCHES SHALL BE BACKFILLED IN THE SIDE, OVERLAY AND BACKFILL ZONES AND SELECT MATERIAL ZONE OF PAVEMENT WITH TYPE SO MATERIAL AS SPECIFIED IN TNSW SPECIFICATION R11, (U.N.O).
- CONCRETE PIPE CLASSES HAVE BEEN DETERMINED BASED ON TYPE H33 SUPPORT, FINISHED SURFACE LEVEL AND TRENCH OR EMBANKMENT CONDITION INSTALLATION TO AS3725 AND SPECIFICATION (U.N.O). CONCRETE PIPES ARE TO BE RUBBER RING JOINTED SPIGOT AND SOCKET TYPE (U.N.O).
- MINIMUM COVER TO ALL NEW PIPES TO BE 300 mm BELOW THE UNDERSIDE OF THE SELECTED MATERIAL ZONE (U.N.O).
- CONNECTION BETWEEN PIPES AND STRUCTURES TO BE UNDERTAKEN IN ACCORDANCE WITH TNSW SPECIFICATION AND DRAWINGS (U.N.O).
- PIPE LENGTHS PROVIDED IN DRAINAGE LONG SECTIONS ARE CALCULATED FROM PIT REFERENCE POINT TO PIT REFERENCE POINT.

EXISTING STORMWATER PIPES

- EXISTING STORMWATER DRAINAGE PIPE AND PIT LAYOUT SHOWN IN THE DRAWINGS ARE INDICATIVE ONLY. ALL LOCATIONS, ORIENTATION AND LEVELS OF EXISTING SHALL BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK. REFER DISCREPANCIES OR ISSUES TO THE PRINCIPAL.
- WHERE AN EXISTING PIT HAS ONLY ONE PIPE OUTLET, THE SETOUT / REFERENCE POINT OF THE EXISTING PIT IS BASED ON THE SURVEYED PIPE INVERT LEVEL.
- WHERE EXISTING PIT HAS TWO OR MORE CONNECTION PIPES, THE SETOUT / REFERENCE OF THE EXISTING PIT IS BASED ON THE INTERSECTION POINT OF THE CENTERLINE OF EACH PIPE.
- IN LOCATIONS WHERE NEW PAVEMENT OR ROAD WIDENING WORKS ARE PROPOSED, ANY EXISTING RETAINED PIPES WITH LESS THAN 600 mm COVER BELOW FINISHED ROAD LEVEL SHALL BE CONCRETE ENCASED.
- WHERE A CONNECTION IS MADE TO AN EXISTING DRAINAGE PIPE OR PIT, THEN THE LEVEL OF THAT ELEMENT MUST BE SURVEYED AND ANY DISCREPANCIES SUBMITTED TO THE PRINCIPAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SUBSURFACE DRAINAGE

- REFER TO SUBSURFACE DRAINAGE DRAWINGS FOR LOCATIONS, PATHS AND DETAILS. SUBSURFACE DRAINAGE/TRENCH DRAINS SHALL CONFORM TO TNSW R33.

DRAINAGE STRUCTURES

- ALL CONCRETE SHALL BE IN ACCORDANCE WITH TNSW QA SPECIFICATION R53 U.N.O.
- DRAINAGE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH AS3600 (U.N.O).
- DESIGN LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH AS 5100.2. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND PROVISION OF ANY TEMPORARY BRACING, PROPPING, ETC. REQUIRED DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- FOUNDATION SUPPORT FOR DRAINAGE STRUCTURES TO BE PROVIDED IN ACCORDANCE TO TNSW SPECIFICATION R11.
- INADEQUATE FOUNDING MATERIAL FOR PIPES AND STRUCTURES SHALL BE REMOVED OR IMPROVED IN ACCORDANCE WITH TNSW SPECIFICATION R11.
- TNSW STANDARD DETAILS TO BE ADOPTED ONLY WHERE REFERENCED.
- STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED. ALL GRATES ARE TO BE CLASS D (U.N.O). GRATES AND FRAMES WITHIN THE PAVEMENT SURFACE (INCLUDES ADJOINING SO GUTTER) ARE TO BE BICYCLE SAFE IN ACCORDANCE WITH AS 3996 (U.N.O).
- ALL WELDS TO COMPLY WITH AUSTRALIAN STANDARD AS 1554.1. FILLET WELDS TO BE NOT LESS THAN 6 mm (U.N.O).
- ALL GALVANISING TO BE IN ACCORDANCE WITH AS/NZS 2312 AND AS/NZS 4680. GALVANISING TO THREADED FASTENERS TO BE IN ACCORDANCE WITH AS 1214. MINIMUM GALVANISING 600 g/sqm OTHER THAN ON FASTENERS.
- GRATE SUPPORT TO BE CONSTRUCTED LEVEL TO ENSURE THAT THE GRATE DOES NOT ROCK AFTER INSTALLATION.
- FOR LOCATION AND LEVEL OF PITS AND HEADWALLS REFER TO DRAINAGE DRAWING LONG SECTIONS AND SCHEDULES.
- CONSTRUCTION JOINT PREPARATION: EXISTING CONCRETE SURFACE TO BE CLEANED, SCABBLED AND ROUGHENED IN ACCORDANCE WITH TNSW SPECIFICATION R53. PRIOR TO CASTING OF NEW PIT SECTION.
- MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH AND NOMINAL COVER TO REINFORCEMENT (U.N.O):
CAST IN-SITU - CAST AGAINST GROUND: 40 MPa/80 mm. CAST IN-SITU - ELSEWHERE: 40 MPa/80 mm.
- MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH AND NOMINAL COVER TO REINFORCEMENT FOR CONCRETE CASING TO PIPES (U.N.O): 25 MPa/60 mm.
- EDGES SHALL BE CHAMFERED 20 x 20.
- ALL REINFORCEMENT BARS TO BE IN ACCORDANCE WITH AS/NZS 4671.
- ALL BARS SHALL BE GRADE D500N DEFORMED RIBBED BAR U.N.O.
- ALL EXPOSED STEEL TO BE GALVANISED IN ACCORDANCE WITH AS1214 AND TO BE 375 g/m².
- LAPS NOT SHOWN ON THE DRAWINGS SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE LAPPED IN ANY CROSS SECTION.
- ALL LAPPED PORTIONS OF BARS SHALL BE IN CONTACT. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- ALL PIT GRATES AND FRAMES TO BE "MEDIUM / HEAVY TRAFFICABLE" BIKE SAFE CLASS "D" GRATES AND FRAMES TO AS3996.
- EXPOSED SAWCUT REINFORCEMENT BARS TO BE TREATED WITH CORROSION INHIBITING COATING.

UTILITIES

- FOR UTILITIES THAT HAVE BEEN RELOCATED OR REQUIRE ADJUSTMENT FOR THE WORKS, REFER TO INDIVIDUAL UTILITY DIVERSION DRAWINGS AND DETAILS FROM THE RELEVANT UTILITY AUTHORITY.
- IN ORDER TO AVOID DAMAGE TO THE UTILITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATING THE WORKS ADJACENT TO ANY UTILITY WITH THE RELEVANT UTILITY AUTHORITY IN ACCORDANCE WITH THE AUTHORITY REQUIREMENTS.
- THE CONTRACTOR SHALL CO-ORDINATE WITH THE RELEVANT UTILITY AUTHORITIES AND THE PRINCIPAL WITH RESPECT TO ANY TEMPORARY DIVERSIONS NECESSARY FOR CONSTRUCTION STAGING WORKS.
- PRIOR TO THE START OF EXCAVATION, ALL PROPOSED TEMPORARY EXCAVATIONS FOR UTILITIES NEAR CUT OR FILL BATTERS ARE TO BE ASSESSED ON SITE BY THE CONTRACTORS OR GEOTECHNICAL ENGINEER FOR POTENTIAL IMPACT ON BATTER STABILITY DURING CONSTRUCTION.
- FOR UTILITY INFORMATION REFER TO UTILITY PLANS.
- LOCATION AND LEVEL OF ALL SERVICES CROSSING PROPOSED DRAINAGE MUST BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL LEVELS MUST BE CHECKED FOR CONFLICT WITH ANY SERVICES, AND ANY CONFLICTS TO BE RESOLVED WITH THE PRINCIPAL.
- SERVICES SHOWN ARE INDICATIVE ONLY AND IS NOT GUARANTEED COMPLETE NOR CORRECT. CONTRACTOR SHALL CONFIRM LOCATION OF ALL SERVICES PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ENSURE ADOPTED METHOD OF CONSTRUCTION WILL AVOID DAMAGE TO ALL SERVICES.
- SERVICE AUTHORITIES SHALL BE CONTACTED PRIOR TO THE COMMENCEMENT OF WORKS FOR ARRANGEMENTS TO BE MADE REGARDING THE PROTECTION, ADJUSTMENT OR RELOCATION OF SERVICES IF NECESSARY. INFORMATION PROVIDED ON THE DRAWINGS WITH RESPECT TO SERVICES IS FOR GUIDANCE ONLY.
- THE CONTRACTOR MUST CHECK THAT ANY CLEARANCES TO UTILITY SERVICES SPECIFIED ON THE DRAWINGS ARE ACHIEVED ON SITE.
- ALL EXCAVATIONS MUST BE CARRIED OUT FOLLOWING THE REGULATIONS SET BY EACH INDIVIDUAL UTILITY SERVICE AUTHORITY.
- THE CONTRACTOR MUST MAKE THEMSELVES AWARE OF AND COMPLY WITH ALL UTILITY SERVICE AUTHORITY REGULATIONS AND STANDARDS IN RELATION TO THE USE OF MACHINERY AND EQUIPMENT IN THE VICINITY OF UTILITY SERVICES.

SIGNAGE AND LINEMARKING

- TO ELIMINATE EXCESSIVE GLARE FROM THE SURFACE OF A SIGN IT SHOULD BE TURNED APPROXIMATELY 5° AWAY FROM THE NORMAL TO THE HEADLIGHT BEAMLINE OF SIGHT.
- ALL SIGNAGE TO BE CLEAR OF ALL VEGETATION AND OBSTRUCTIONS.
- SIGNS TO BE INSTALLED IN ACCORDANCE WITH AS1742.
- CONDITION ASSESSMENT TO BE UNDERTAKEN ON ALL EXISTING SIGN FACES TO BE RELOCATED PRIOR TO BEING REUSED IN ACCORDANCE WITH RELEVANT SPECIFICATIONS AND STANDARDS AS DIRECTED BY PRINCIPAL.
- ALL EXISTING LINEMARKING AFFECTED BY THE NEW WORKS AND NOT OTHERWISE CONFLICTING WITH PROPOSED LINEMARKING IS TO BE REINSTATED.
- ALL LINEMARKING TO BE THERMOPLASTIC IN ACCORDANCE WITH SPECIFICATION R141.
- FOR MESSAGES ON PAVEMENTS REFER TO TNSW DELINEATION GUIDELINE SECTION 9.
- RAISED PAVEMENT MARKERS SHALL BE PLACED ON ALL LANE, EDGE AND BARRIER LINES. SPACING OF RAISED PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH TNSW DELINEATION GUIDE AND SPECIFICATION R142.
- THE LOCATION OF ALL EXISTING SIGNS SHALL BE CONFIRMED PRIOR TO COMMENCING WORK.
- TYPICAL MOUNTING:
- POST TYPE: 60.3 x 3.6 CHS AS/NZS 1163-C250L0.
- MOUNTING HEIGHT: IN ACCORDANCE WITH AS1742, UNLESS OTHERWISE INDICATED. KERB OFFSET: 0.3 m ON VERGES AND 0.5 m MINIMUM ON ISLANDS.

TNSW SPECIFICATIONS

GENERAL SPECIFICATIONS

G1	JOB SPECIFIC REQUIREMENTS
G2-C2	GENERAL REQUIREMENTS (MAJOR CONTRACTS)
G4	PRINCIPAL'S PROJECT ACCOMMODATION
G7	UTILITY ADJUSTMENT
G10	TRAFFIC MANAGEMENT
G22	WORK HEALTH & SAFETY (CONSTRUCTION AND MAINTENANCE WORKS)
G36	ENVIRONMENTAL PROTECTION
G38	SOIL AND WATER MANAGEMENT
G40	CLEARING AND GRUBBING
G71	CONSTRUCTION SURVEYS

QUALITY MANAGEMENT SYSTEM SPECIFICATIONS

Q6	QUALITY MANAGEMENT SYSTEM (TYPE 6)
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ROADWORKS SPECIFICATIONS

R11	STORMWATER DRAINAGE
R15	KERBS AND GUTTERS
R16	PRECAST REINFORCED CONCRETE BOX CULVERTS
R23	PLASTIC FLEXIBLE PIPES
R33	TRENCH DRAINS
R44	EARTHWORKS
R50	STABILISATION OF EARTHWORKS
R53	CONCRETE (FOR GENERAL USE), MORTAR AND GROUT
R63	GEOTEXTILES (SEPARATION AND FILTRATION)
R71	CONSTRUCTION OF UNBOUND AND MODIFIED PAVEMENT COURSE
R73	CONSTRUCTION OF PLANT MIXED HEAVILY BOUND PAVEMENT COURSE
R101	COLD MILLING OF ROAD PAVEMENT MATERIALS
R106	SPRAYED BITUMINOUS SURFACING (WITH CUTBACK BITUMEN)
R107	SPRAYED BITUMINOUS SURFACING (WITH POLYMER MODIFIED BINDER)
R111	SPRAYED BITUMINOUS SURFACING (WITH BITUMEN EMULSION)
R116	HEAVY DUTY DENSE GRADED ASPHALT
R132	SAFETY BARRIER SYSTEMS
R141	PAVEMENT MARKING
R142	RETROREFLECTIVE RAISED PAVEMENT MARKERS
R143	SIGNPOSTING
R173	GENERAL CONCRETE PAVING
R178	VEGETATION
R201	FENCING
R204	PROPERTY ADJUSTMENT
B80	CONCRETE WORK FOR BRIDGES

MAINTENANCE SPECIFICATIONS

M209	ROAD OPENING AND RESTORATIONS
M250	HEAVY PATCHING (FLEXIBLE)

MATERIALS SPECIFICATIONS

3051	GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS
3071	SELECTED MATERIAL FOR FORMATION LAYERS
3151	COVER AGGREGATE FOR SPRAYED BITUMINOUS SURFACING
3152	AGGREGATES FOR ASPHALT
3204	PREFORMED JOINT FILLERS FOR CONCRETE ROAD PAVEMENTS AND STRUCTURES
3211	CEMENTS, BINDERS AND FILLERS
3222	NO FINES CONCRETE (FOR SUBSURFACE DRAINAGE)
3252	POLYMER MODIFIED BINDER FOR PAVEMENTS
3253	BITUMEN FOR PAVEMENTS
3254	BITUMEN EMULSION
3258	AGGREGATE PRECOATING AGENT (FOR BITUMEN)
3259	BITUMEN ADHESION AGENT (FOR BITUMEN)
3261	CUTBACK BITUMEN
3268	AGGREGATE PRECOATING AGENT (FOR POLYMER MODIFIED BINDER)
3269	BITUMEN ADHESION AGENT (FOR POLYMER MODIFIED BINDER)
3351	ROAD MARKING PAINT
3353	GLASS BEADS (FOR APPLICATION TO ROAD MARKING MATERIALS)
3354	ADHESIVES FOR RAISED PAVEMENT MARKER INSTALLATION
3356	WATERBORNE ROAD MARKING PAINT
3357	THERMOPLASTIC ROAD MARKING MATERIAL
3400	MANUFACTURE AND DELIVERY OF ROAD SIGNS
3552	SUBSURFACE DRAINAGE PIPE (CORRUGATED PERFORATED AND NON-PERFORATED PLASTIC)
3553	SEAMLESS TUBULAR FILTER FABRIC
3580	AGGREGATE FILTER MATERIALS FOR SUBSURFACE DRAINAGE
3651	PAINTS AND THINNERS FOR STEELWORK

TRAFFIC SIGNALS

SI/TCS/8	APPENDIX A - DRAWING BOOKLET - INSTALLATION
SI/TCS/8	APPENDIX B - DRAWING BOOKLET - OTHERS
SI/TCS/8	INSTALLATION AND RECONSTRUCTION OF TRAFFIC LIGHT SIGNALS
TS101	TRAFFIC SIGNALS - NEW AND RECONSTRUCTION
TS200	REGISTER OF ITS FIELD EQUIPMENT
TS201	APPROVAL OF ITS FIELD EQUIPMENT



CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK



					Scales: NTS Grid: GDA2020 Height Datum: AHD TNSW REGISTRATION No.: DS2000/000000		Drawn: GB Designed: GB Checked: AL Approved:		Project: MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION Title: GENERAL NOTES 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	
1 ISSUED FOR 80% DESIGN			Stockland		FIFECAPITAL				Status: FOR APPROVAL		A1	
NOT TO BE USED FOR CONSTRUCTION									Project - Drawing No. GE-2002		Issue 1	
Issue Description Date												

TfNSW REFERENCE DRAWINGS

R0100 SOIL AND WATER MANAGEMENT

- R0100 - 01 ROCK FILLED MATTRESS PROTECTION FOR CULVERTS AT INLETS AND OUTLETS (SHEET 1)
- R0100 - 01 ROCK FILLED MATTRESS PROTECTION FOR CULVERTS AT INLETS AND OUTLETS (SHEET 2)
- R0100 - 02 TEMPORARY SEDIMENT CONTROL BANK
- R0100 - 03 JUTE MESH AND BITUMEN DRAINS
- R0100 - 04 DIVERSION BANK AND OUTLET SPREADING SYSTEM (SHEET 1)
- R0100 - 04 DIVERSION BANK AND OUTLET SPREADING SYSTEM (SHEET 2)
- R0100 - 05 CHECK DAMS IN DRAINS AND GULLIES
- R0100 - 06 DROP DOWN STRUCTURES
- R0100 - 07 TEMPORARY EROSION CONTROL SILT FENCE (SHEET 1)
- R0100 - 07 TEMPORARY EROSION CONTROL SILT FENCE (SHEET 2)
- R0100 - 08 DROP INLET SEDIMENT TRAPS (SHEET 1)
- R0100 - 08 DROP INLET SEDIMENT TRAPS (SHEET 2)
- R0100 - 09 TYPICAL OUTLET SEDIMENT TRAPS
- R0100 - 10 SEDIMENTATION BASIN (TYPE C SOILS)
- R0100 - 11 SEDIMENTATION BASIN (TYPE D AND F SOILS)
- R0100 - 12 COMBINED SEDIMENTATION AND ACCIDENTAL SPILL BASIN (SHEET 1)
- R0100 - 12 COMBINED SEDIMENTATION AND ACCIDENTAL SPILL BASIN (SHEET 2)

R0210 STORMWATER DRAINAGE - HEADWALLS

- R0210-15 CONCRETE HEADWALLS SINGLE CELL 300mm TO 900mm DIA WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER)
- R0210-17 CONCRETE HEADWALLS DOUBLE CELL 300mm TO 900mm DIA WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER)
- R0210-19 CONCRETE HEADWALLS TRIPLE CELL 300mm TO 900mm DIA WITH CONCRETE APRON (3 TO 1 BATTER OR FLATTER)

R0220 STORMWATER DRAINAGE - GULLY PITS

- R0220-01 GULLY PIT TYPE SA FOR PIPE DIA. UP TO 450mm (SHEET 1)
- R0220-01 GULLY PIT TYPE SA FOR PIPE DIA. UP TO 450mm (SHEET 2)
- R0220-02 GULLY PIT TYPE SA, WITHOUT KERB INLET FOR SA KERB AND GUTTER
- R0220-03 PRECAST CONCRETE LINTELS FOR TYPE SA GULLY PITS
- R0220-04 SA GRATE AND FRAME (LARGE)
- R0220-05 SA GRATE AND FRAME (SMALL)
- R0220-06 GULLY PIT TYPE SE
- R0220-09 GULLY PIT TYPE SF
- R0220-20 GULLY PIT TYPE SL
- R0220-28 GULLY PIT WIDENING FOR PIPES GREATER THAN 375mm DIA
- R0220-35 INSPECTION PIT WITH SINGLE OR DOUBLE CAST IRON FRAME AND COVER
- R0220-43 PIT TO PIPE CONNECTION
- R0220-44 PIPE CONNECTION TO PRECAST BOX CULVERT
- R0220-45 INDIVIDUAL-RUNG LADDER (STEP IRONS) FOR DRAINAGE PITS
- R0210-49 CONCRETE PIPE EXTENSION

R0240 PIPES

- R0240-01 INSTALLATION OF BURIED CONCRETE PIPES TYPE HS3 SUPPORT

R0300 KERB AND CHANNEL

- R0300-01 STANDARD KERB AND GUTTER SHAPES (S381)
- R0300-04 STANDARD VEHICULAR CROSSING FOR USE WITH TYPE SA KERB AND CHANNEL
- R0300-11 KERB RAMPS (SHEET 1)
- R0300-11 KERB RAMPS (SHEET 2)
- R0300-11 KERB RAMPS (SHEET 3)

R0500 CLEARING AND GRUBBING

- R0500-01 TREE PROTECTION (S105)

R0700 SAFETY BARRIER

- R0710 - 01 W BEAM AND THRIE BEAM SAFETY BARRIERS - POST AND BLOCKOUT COMPONENTS
- R0710 - 02 W BEAM AND THRIE BEAM SAFETY BARRIERS - NOTCHED BLOCKOUT
- R0710 - 03 W BEAM AND THRIE BEAM SAFETY BARRIERS - POST ON BASE PLATE
- R0710 - 04 W BEAM AND THRIE BEAM SAFETY BARRIERS - POST ON SLIP BASE PLATE
- R0710 - 05 W BEAM SAFETY BARRIERS - ABRAHAM BLOCKOUT FOR RAISING PAIL HEIGHT ON EXISTING POST
- R0710 - 06 W BEAM RAIL AND STIFFENING PIECE CONNECTION
- R0710 - 08 W BEAM AND THRIE BEAM SAFETY BARRIERS - TERMINAL CONNECTORS
- R0710 - 09 W BEAM AND THRIE BEAM SAFETY BARRIER - W BEAM TO THRIE BEAM TRANSITION
- R0710 - 10 W BEAM NESTING RAIL AND HALF LENGTH RAIL
- R0710 - 13 W BEAM RAIL - TERMINAL COMPONENT - ANCHOR PLATE
- R0710 - 14 W BEAM RAIL - MAINTENANCE RAIL (FOR VARIABLE GAP CONNECTION)
- R0710 - 15 W BEAM AND THRIE BEAM RAIL - FASTENER COMPONENTS - M16 MUSHROOM HEAD BOLTS & NUTS
- R0710 - 16 W BEAM AND THRIE BEAM RAIL - FASTENER COMPONENTS - HEXAGON HEAD BOLTS & NUTS
- R0710 - 17 W BEAM AND THRIE BEAM RAIL - POSTS - BASE PLATES AND SLIP BASE PLATES - HEXAGON HEAD BOLTS AND NUTS
- R0710 - 18 W BEAM AND THRIE BEAM SAFETY BARRIER DELINEATION UNIT
- R0710 - 19 AASHTO G4 W BEAM ASSEMBLY
- R0710 - 22 AASHTO G4 W BEAM NESTED RAIL ASSEMBLY
- R0710 - 24 W BEAM AND THRIE BEAM POST INSTALLATION - HARD GROUND AND TERMINALS

R0800 FENCING

- R0800-02 RURAL ROAD BOUNDARY FENCING - TYPICAL FENCE PANEL DETAILS
- R0800-29 PIPE HANDRAIL DETAILS

PAVEMENT SUBSURFACE DRAINAGE

- MD.R33.A06 DETAILS FOR TRENCH DRAINS (SHEET 1)
- MD.R33.A06 DETAILS FOR TRENCH DRAINS (SHEET 2)
- MD.R33.A07 STAGE CONSTRUCTION OF TRENCH DRAIN
- MD.R33.A08 COMBINED STORMWATER AND SUBSURFACE DRAINAGE LAYOUT
- MD.R37.A01 INTRA-PAVEMENT DRAINS


1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

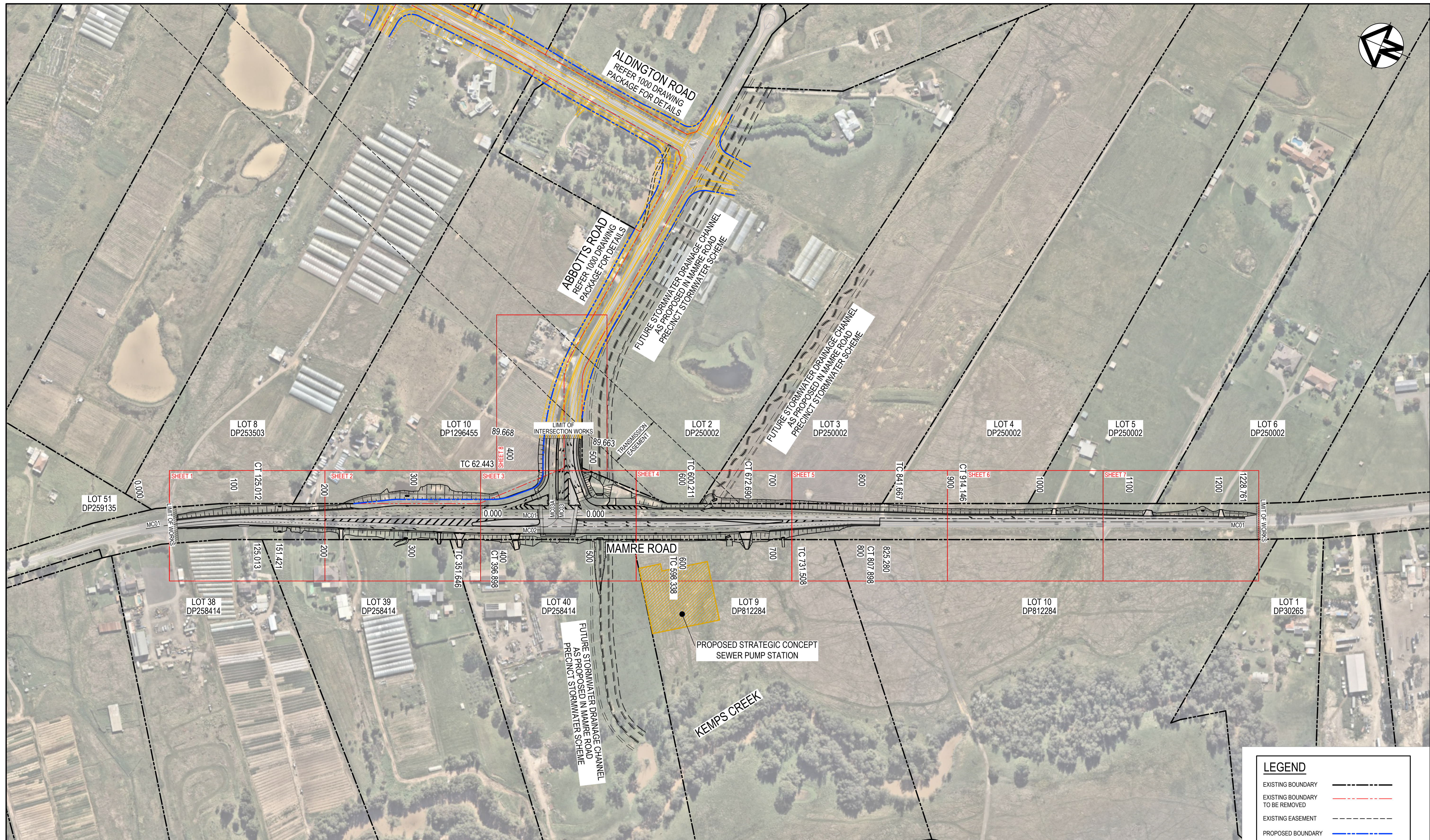
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Scales	NTS
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Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	GENERAL NOTES 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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	GE-2003
Issue	1



LEGEND

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING EASEMENT
- PROPOSED BOUNDARY



1 : 2000 @ A1

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Scales	1 : 2000 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

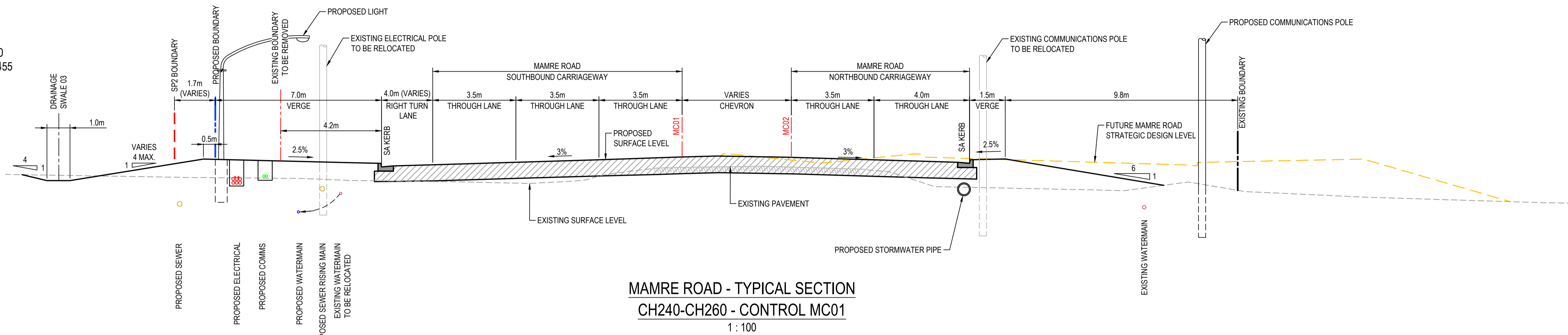
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	GENERAL ARRANGEMENT PLAN

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.at.net.au
info@at.net.au

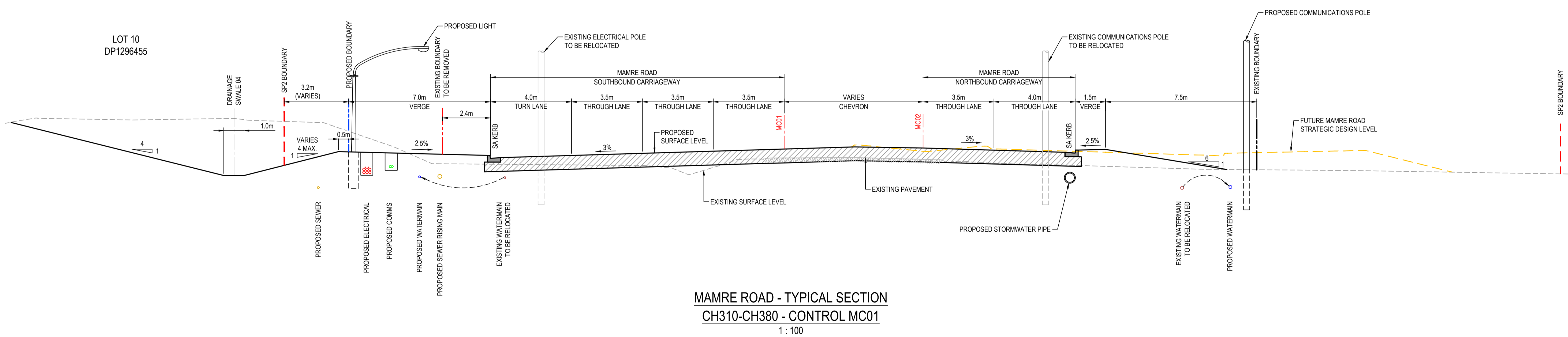
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Project - Drawing No.	GE-2005	Issue
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LOT 10
DP1296455

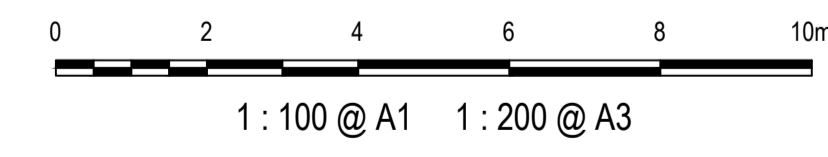


MAMRE ROAD - TYPICAL SECTION
CH240-CH260 - CONTROL MC01
1 : 100

LOT 10
DP1296455



MAMRE ROAD - TYPICAL SECTION
CH310-CH380 - CONTROL MC01
1 : 100

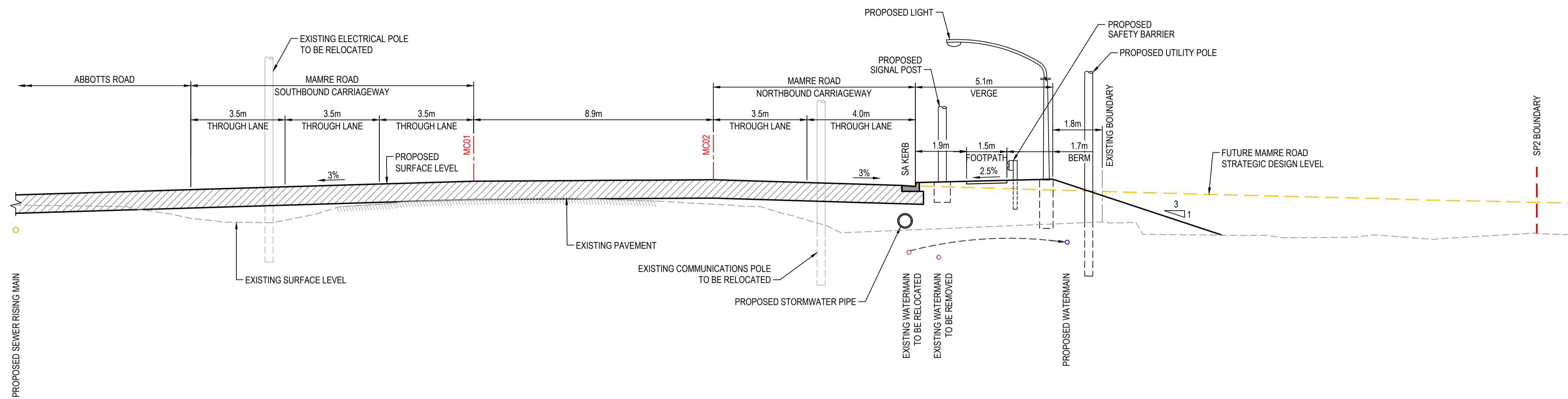


Issue	Description	Date
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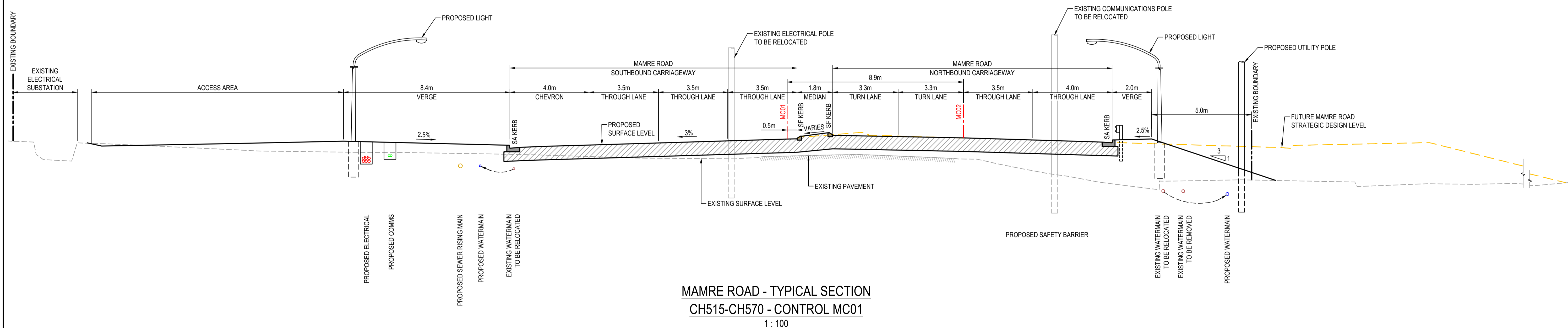
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Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION	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
Designed	GB		
Checked	AL		
Approved		Title TYPICAL CROSS SECTIONS SHEET 1	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No. GE-2011			Issue 1

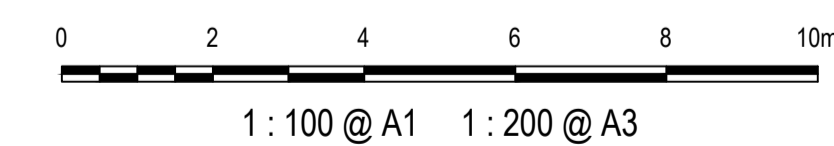
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MAMRE ROAD - TYPICAL SECTION
CH440-CH480 - CONTROL MC01
1:100



MAMRE ROAD - TYPICAL SECTION
CH515-CH570 - CONTROL MC01
1:100



Issue	Description	Date
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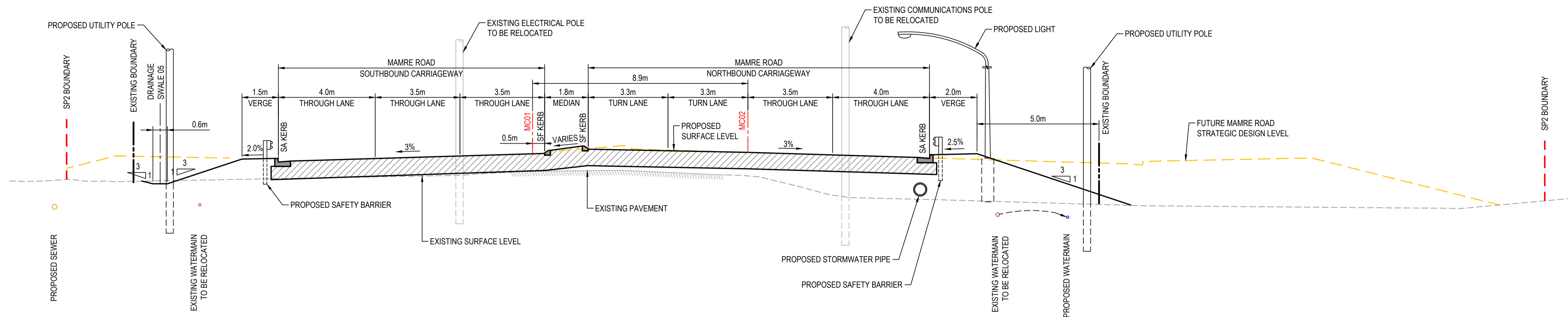
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Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

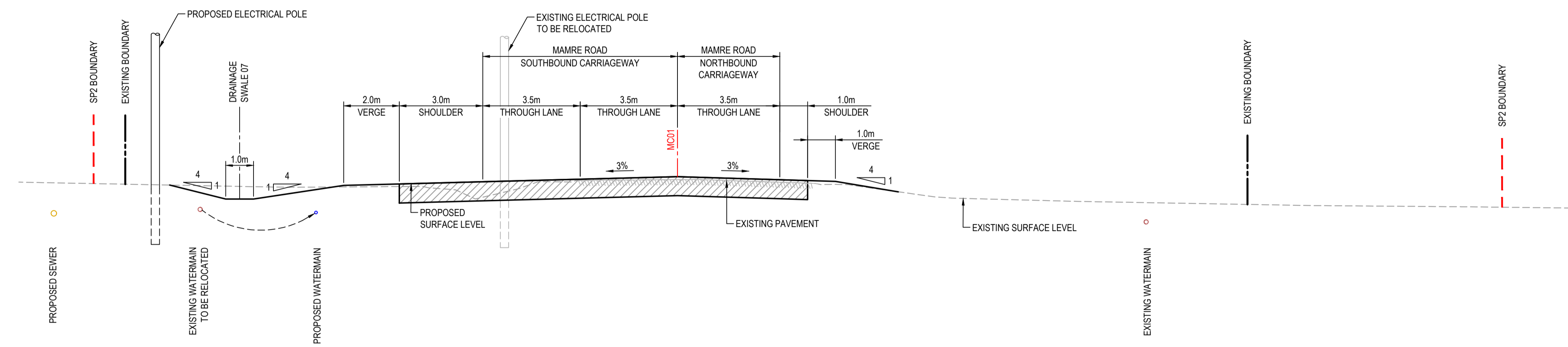
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	TYPICAL CROSS SECTIONS SHEET 2

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	GE-2012
Issue	1

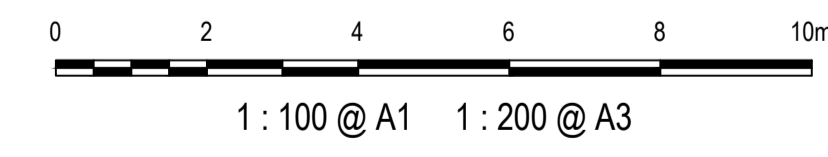
Issue	1
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MAMRE ROAD - TYPICAL SECTION
CH585-CH620 - CONTROL MC01
1 : 100



MAMRE ROAD - TYPICAL SECTION
CH800-CH820 - CONTROL MC01
1 : 100



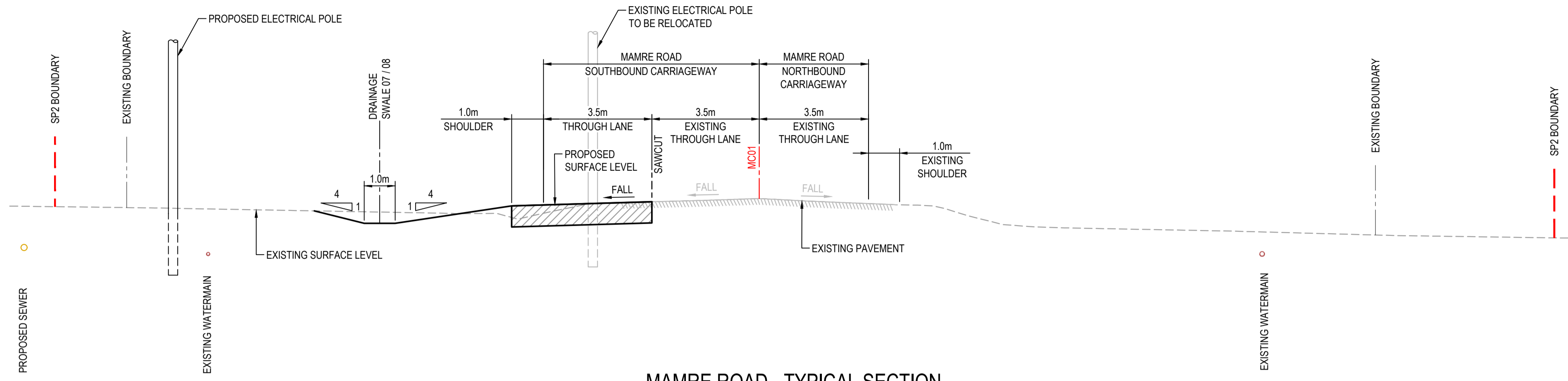
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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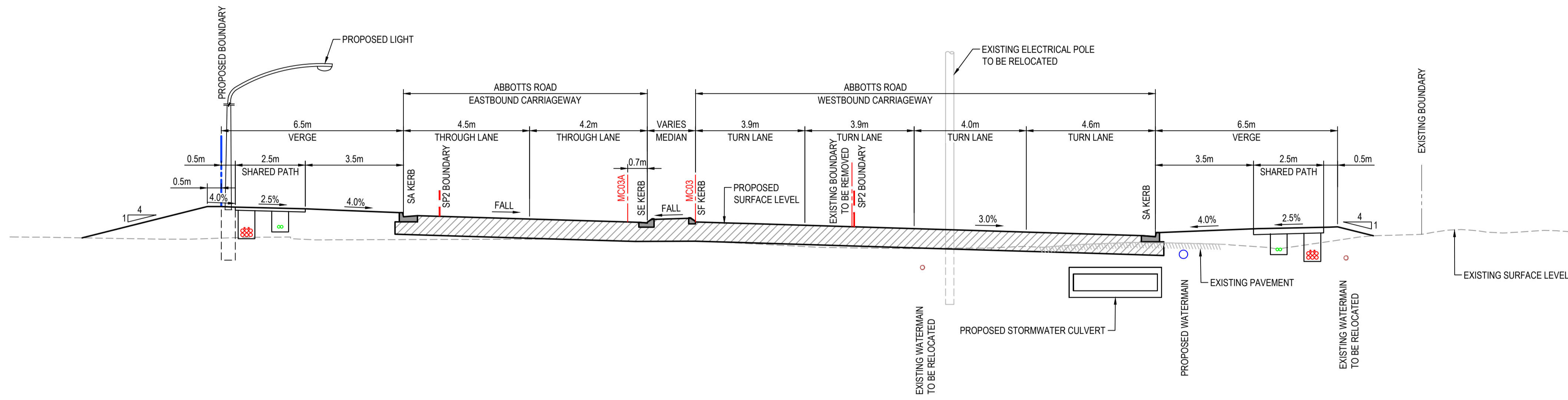
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Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000	Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	TYPICAL CROSS SECTIONS SHEET 3

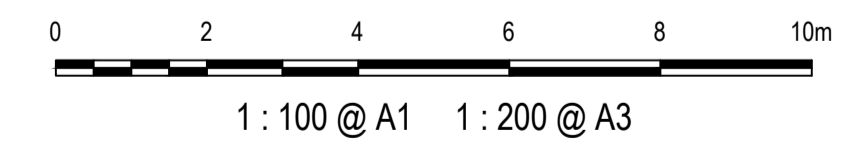
Civil Engineers and Project Managers	 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	GE-2013
Issue	1



MAMRE ROAD - TYPICAL SECTION
CH880-CH1220 - CONTROL MC01
1:100



ABBOTTS ROAD - TYPICAL SECTION
CH89.663 LIMIT OF WORKS - CONTROL MC03
1:100



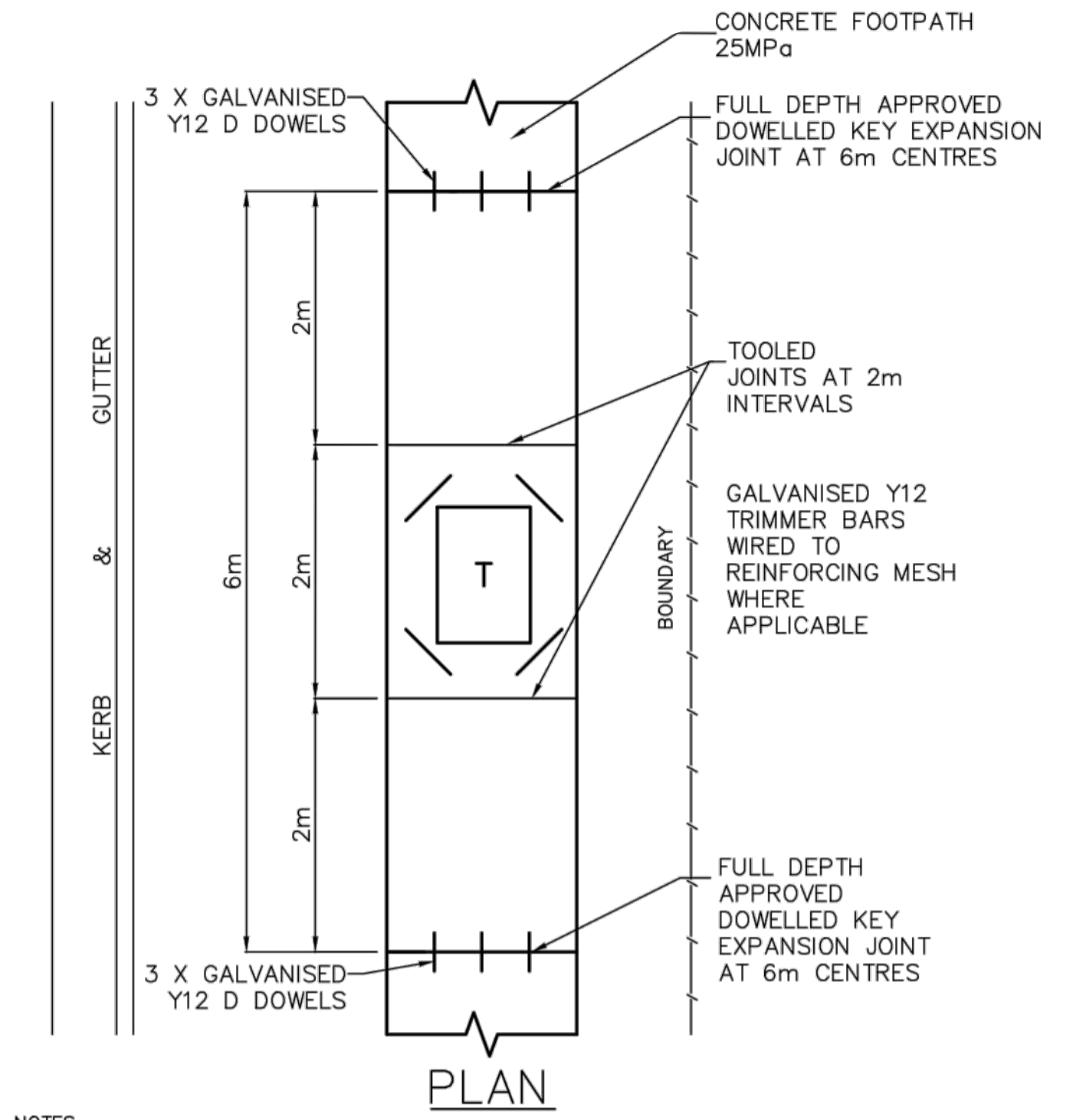
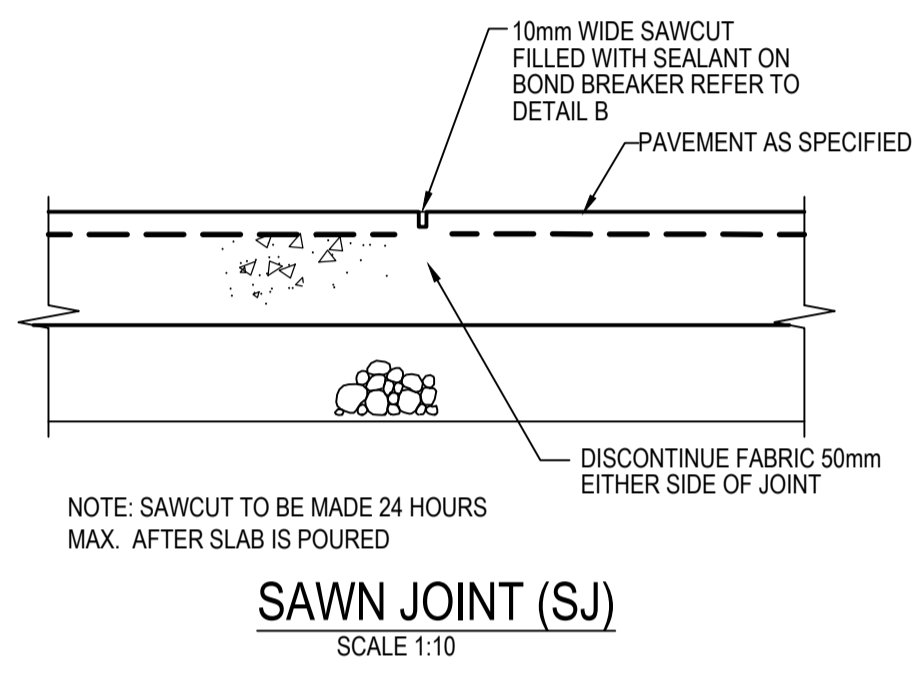
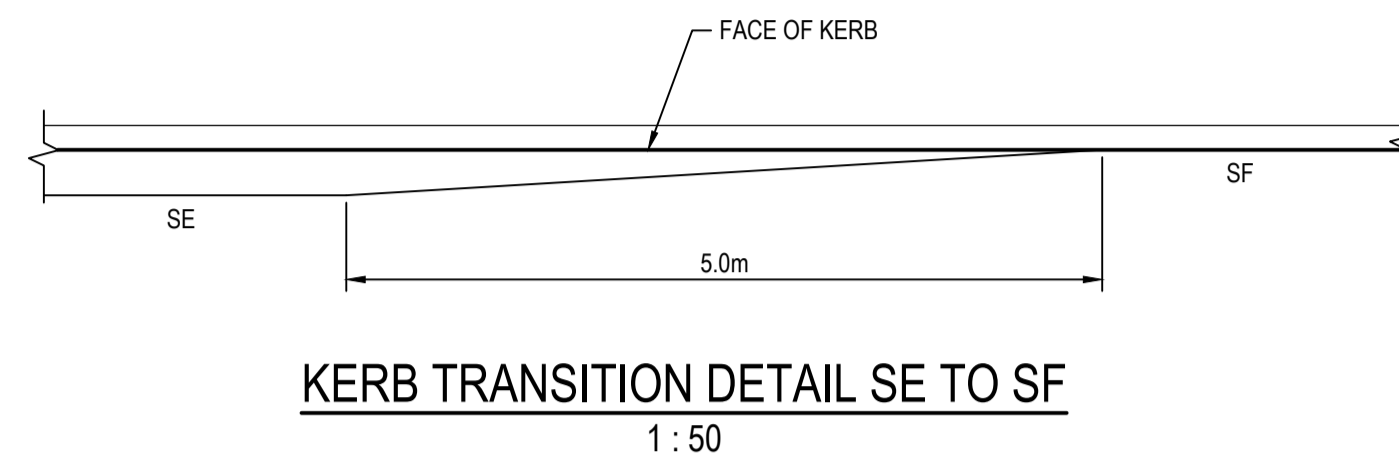
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000	Approved	

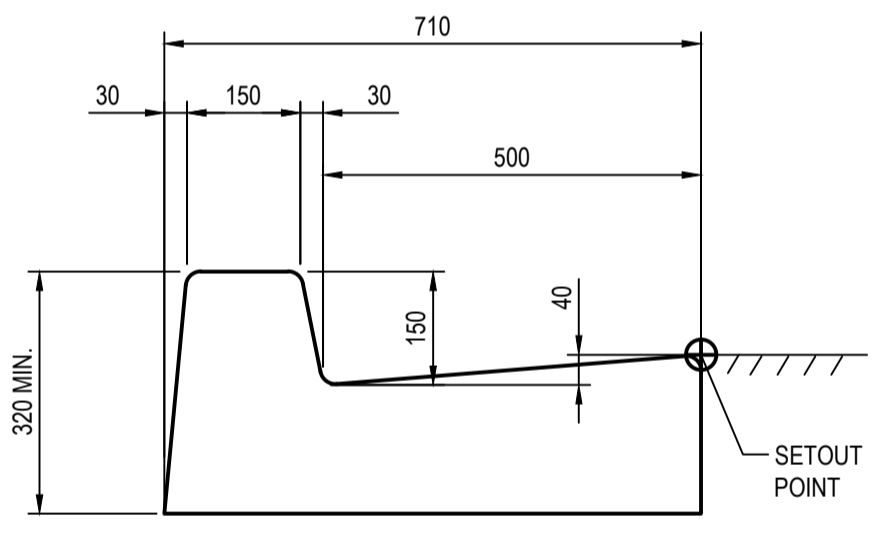
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	TYPICAL CROSS SECTIONS SHEET 4

Civil Engineers and Project Managers	<p>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</p>
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	GE-2014
Issue	1

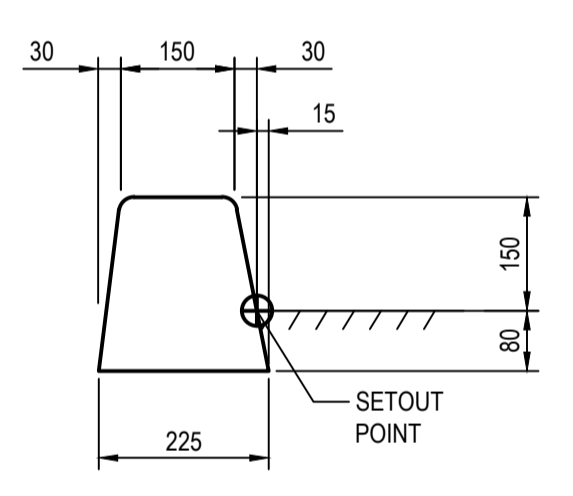


- NOTES
1. LONGITUDINAL EDGING IS REQUIRED ON FOOTPATHS. ALL EXPANSION JOINTS SHALL ALSO BE EDGED.
 2. THE FOOTPATH SHALL BE FINISHED WITH A BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
 3. FOR MACHINE LAID FOOTPATHS, REFER TO SECTION 7 OF COUNCIL'S CONSTRUCTION SPECIFICATION.
 4. FOR CYCLEWAYS, REFER TO SECTION 7 OF COUNCIL'S CONSTRUCTION SPECIFICATION.

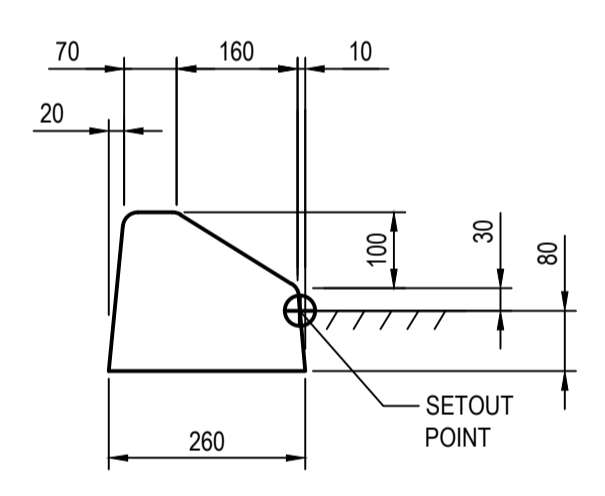
SHARED PATH/FOOTPATH JOINTING DETAILS
N.T.S



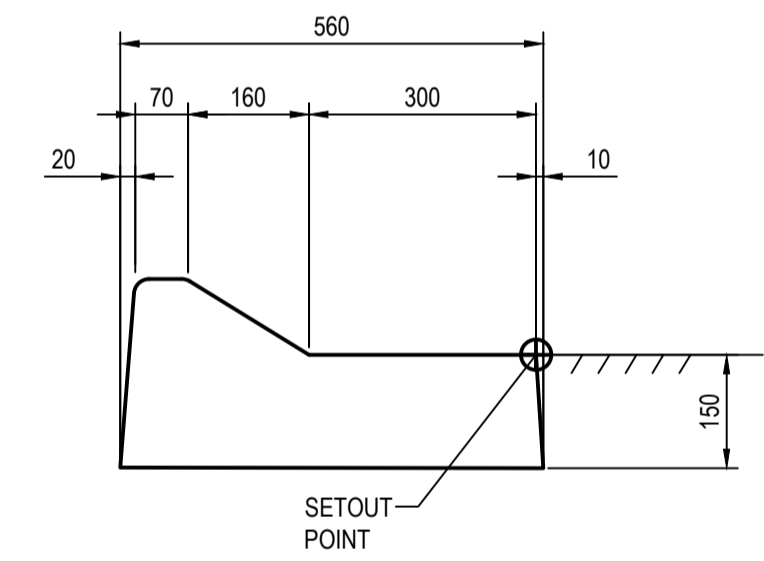
TYPE 'SA' KERB
BARRIER KERB AND GUTTER
SCALE 1:10



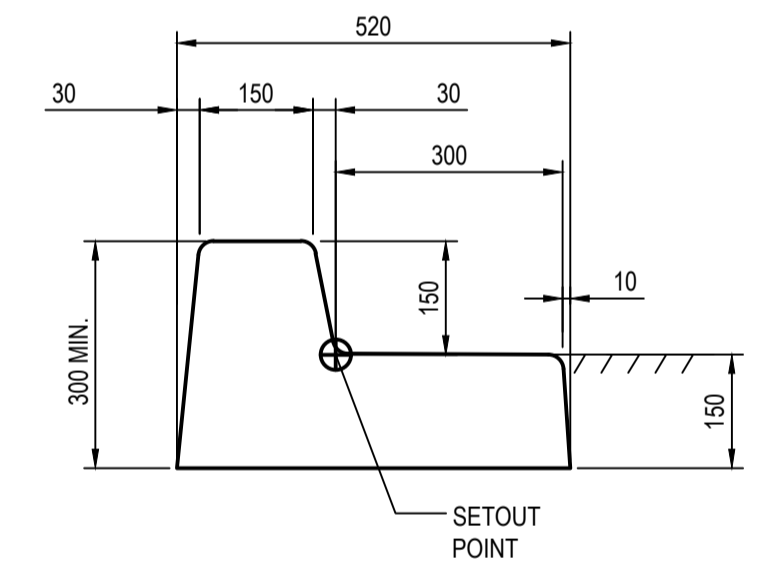
TYPE 'SM' KERB
BARRIER KERB AT TRAFFIC ISLANDS
SCALE 1:10



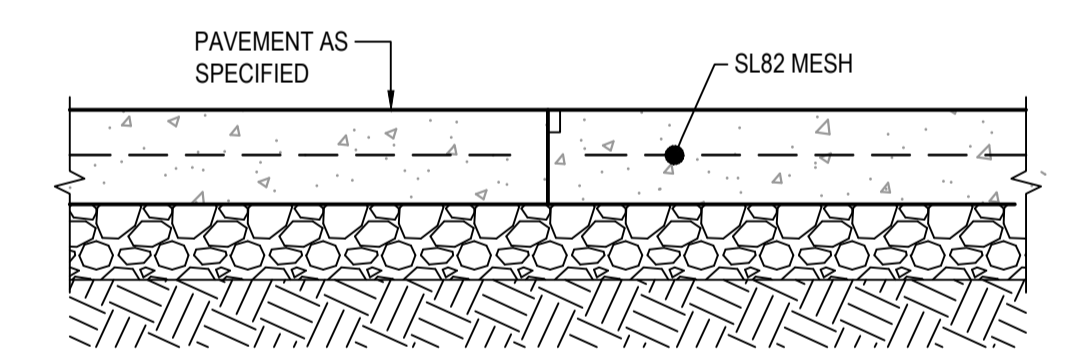
TYPE 'SF' KERB
RAISED MEDIANS AND TRAFFIC ISLANDS
SCALE 1:10



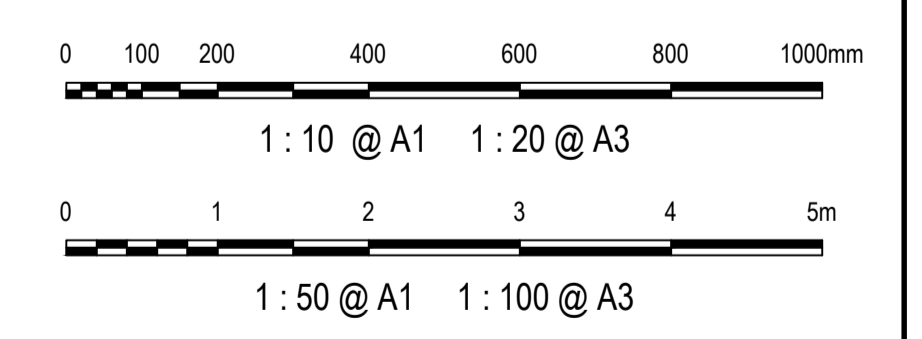
TYPE 'SE' KERB
RAISED MEDIANS AND TRAFFIC ISLANDS
SCALE 1:10



TYPE 'SL' KERB
BARRIER KERB AND GUTTER
SCALE 1:10



JOINT J11
RAISED MEDIANS AND TRAFFIC ISLANDS
SCALE 1:10



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

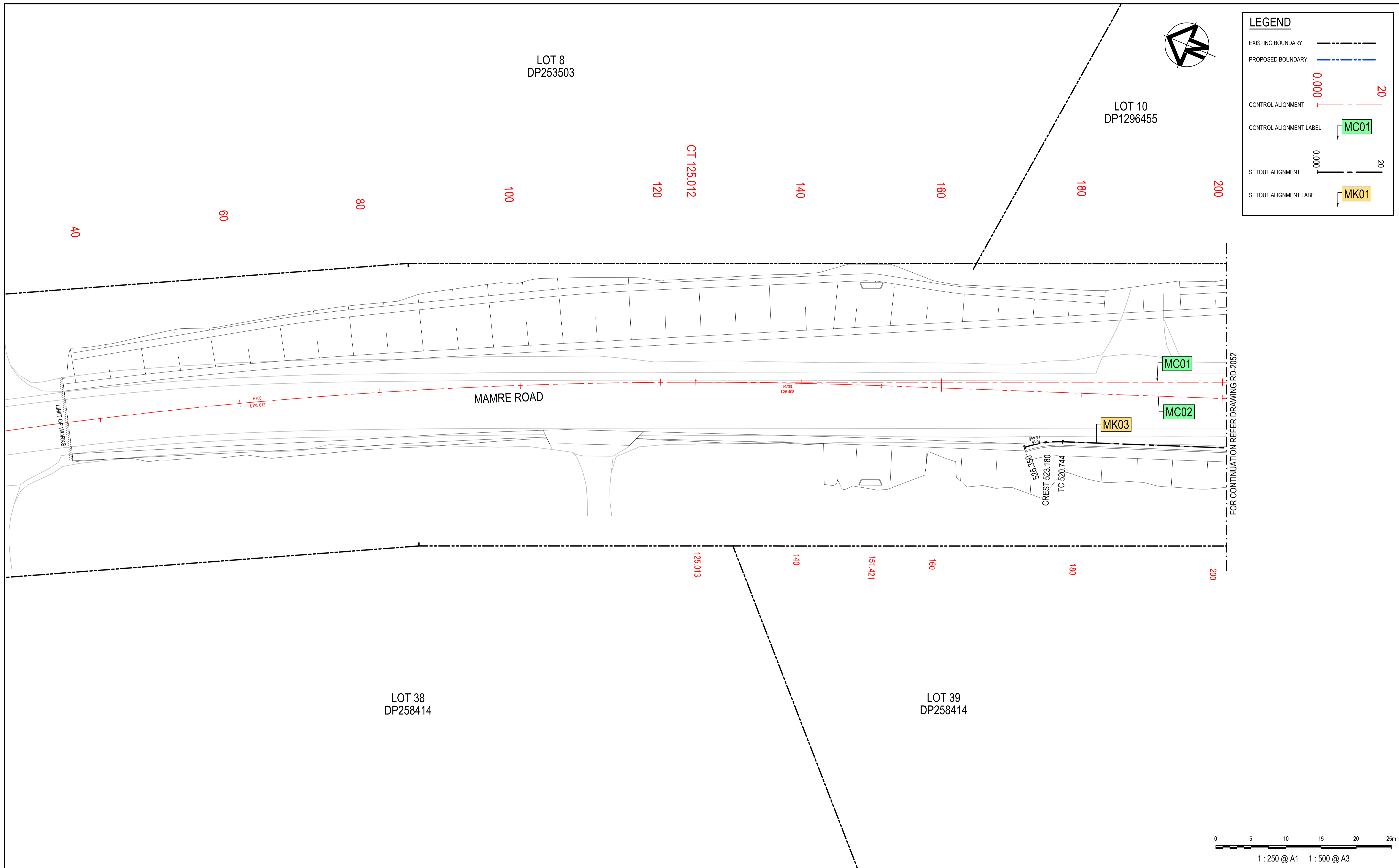
Client	FRASERS PROPERTY	ESR
	Stockland	FIFECAPITAL

Scales	AS SHOWN	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TFNSW REGISTRATION No.	DS2000/000000		

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	TYPICAL DETAILS

Civil Engineers and Project Managers	at&I
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	GE-2021
Issue	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



LEGEND

EXISTING BOUNDARY

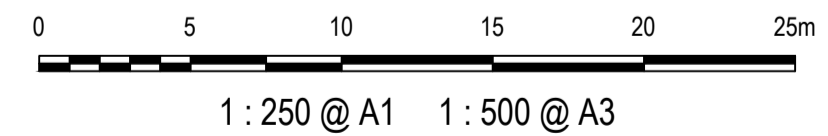
PROPOSED BOUNDARY

CONTROL ALIGNMENT

CONTROL ALIGNMENT LABEL

SETOUT ALIGNMENT

SETOUT ALIGNMENT LABEL



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

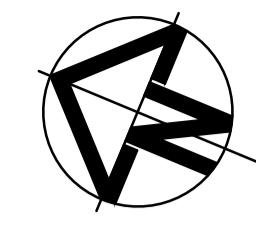
Title

ALIGNMENT CONTROL 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 APPROVAL	A1
Project - Drawing No.	RD-2051	Issue
		1



LEGEND

EXISTING BOUNDARY

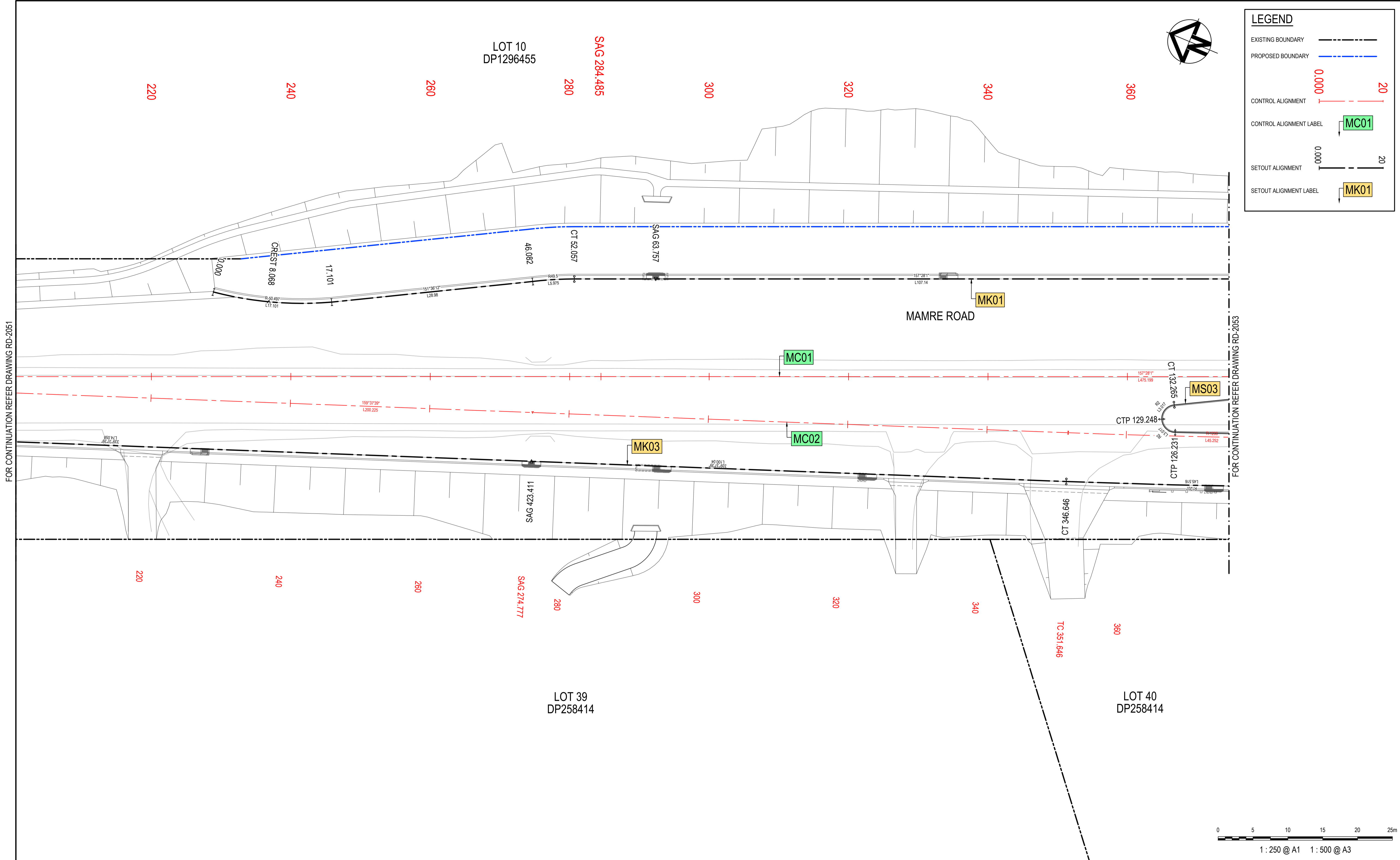
PROPOSED BOUNDARY

CONTROL ALIGNMENT

CONTROL ALIGNMENT LABEL

SETOUT ALIGNMENT

SETOUT ALIGNMENT LABEL



FOR CONTINUATION REFER DRAWING RD-2051

FOR CONTINUATION REFER DRAWING RD-2053

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

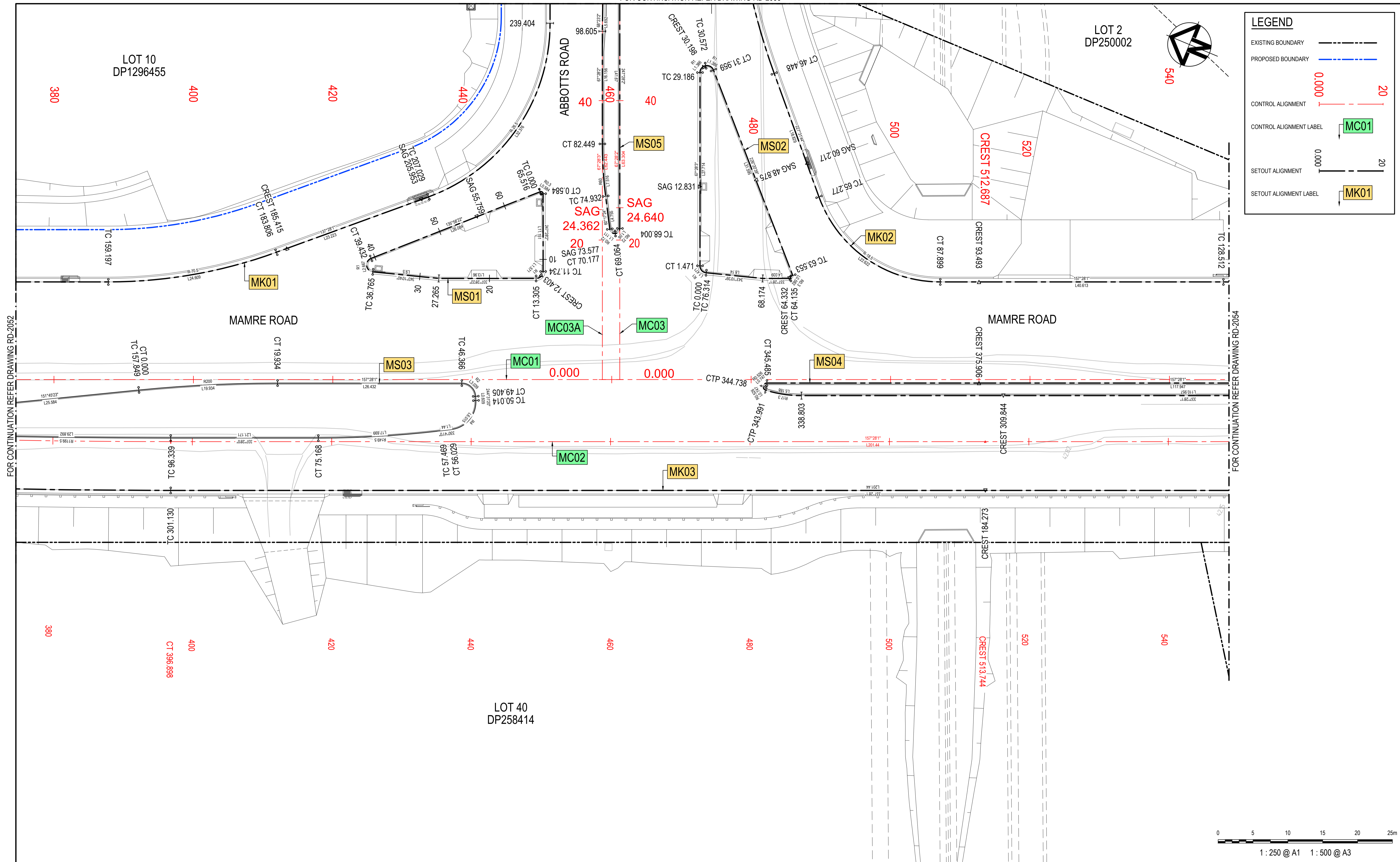
Title

ALIGNMENT 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 APPROVAL	A1
Project - Drawing No.	RD-2052	Issue
		1



FOR CONTINUATION REFER DRAWING RD-2052

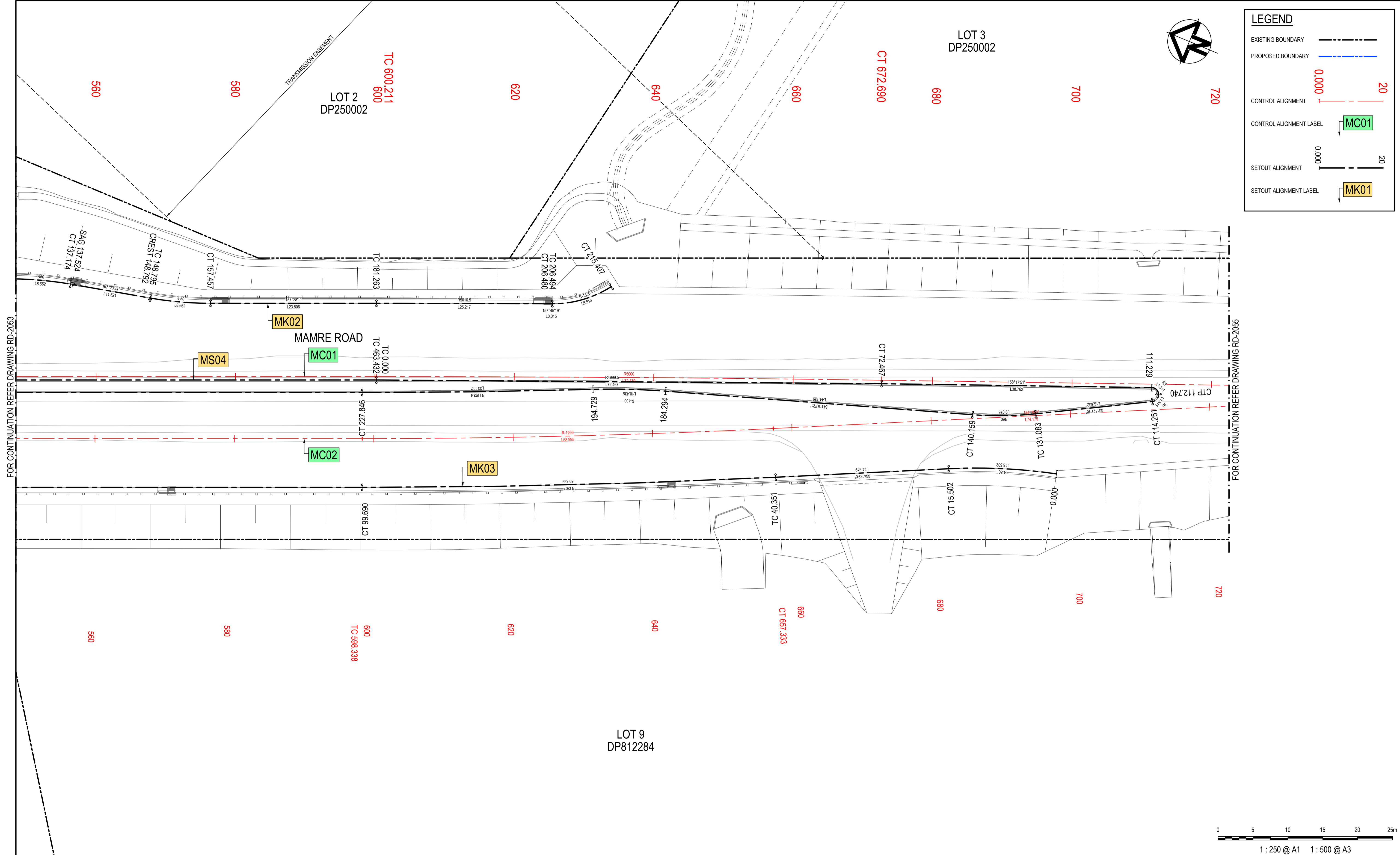
FOR CONTINUATION REFER DRAWING RD-2054

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Designed	GB	
Checked	AL	
Approved		Title ALIGNMENT CONTROL PLAN SHEET 3

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	A1
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	Issue
Project - Drawing No. RD-2053	1



LEGEND

EXISTING BOUNDARY

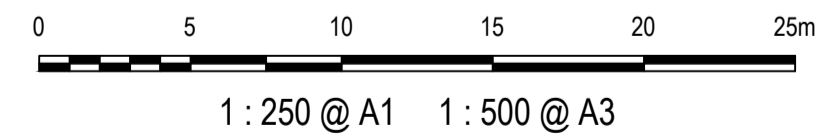
PROPOSED BOUNDARY

CONTROL ALIGNMENT

CONTROL ALIGNMENT LABEL

SETOUT ALIGNMENT

SETOUT ALIGNMENT LABEL



FOR CONTINUATION REFER DRAWING RD-2053

FOR CONTINUATION REFER DRAWING RD-2055

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TNSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

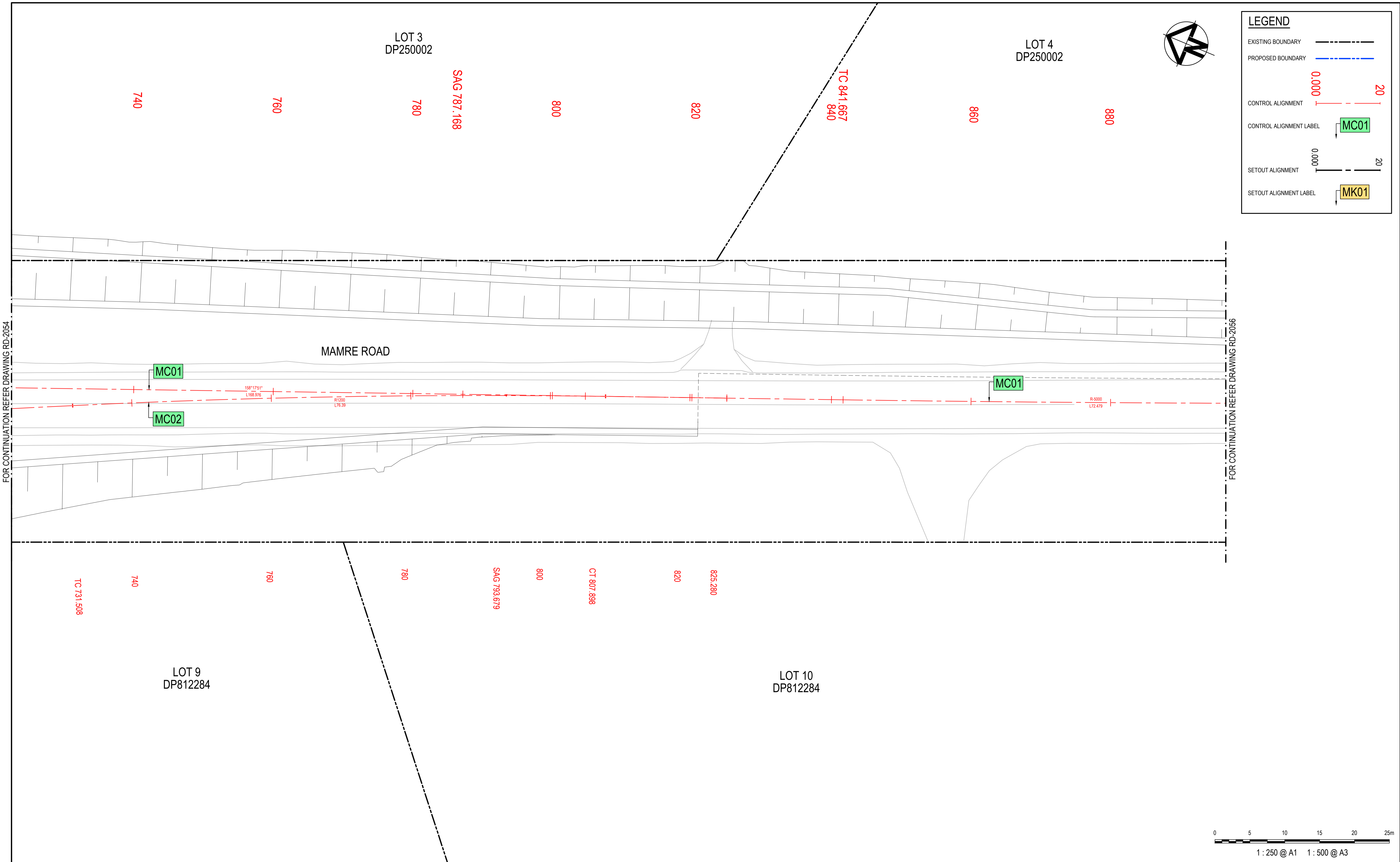
Title

ALIGNMENT CONTROL PLAN SHEET 4

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 APPROVAL	A1
Project - Drawing No.	RD-2054	Issue
		1



LEGEND

EXISTING BOUNDARY

PROPOSED BOUNDARY

CONTROL ALIGNMENT

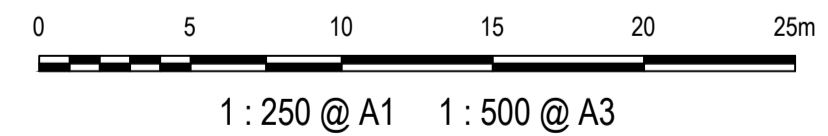
CONTROL ALIGNMENT LABEL

SETOUT ALIGNMENT

SETOUT ALIGNMENT LABEL

0.000 20

0.000 20



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

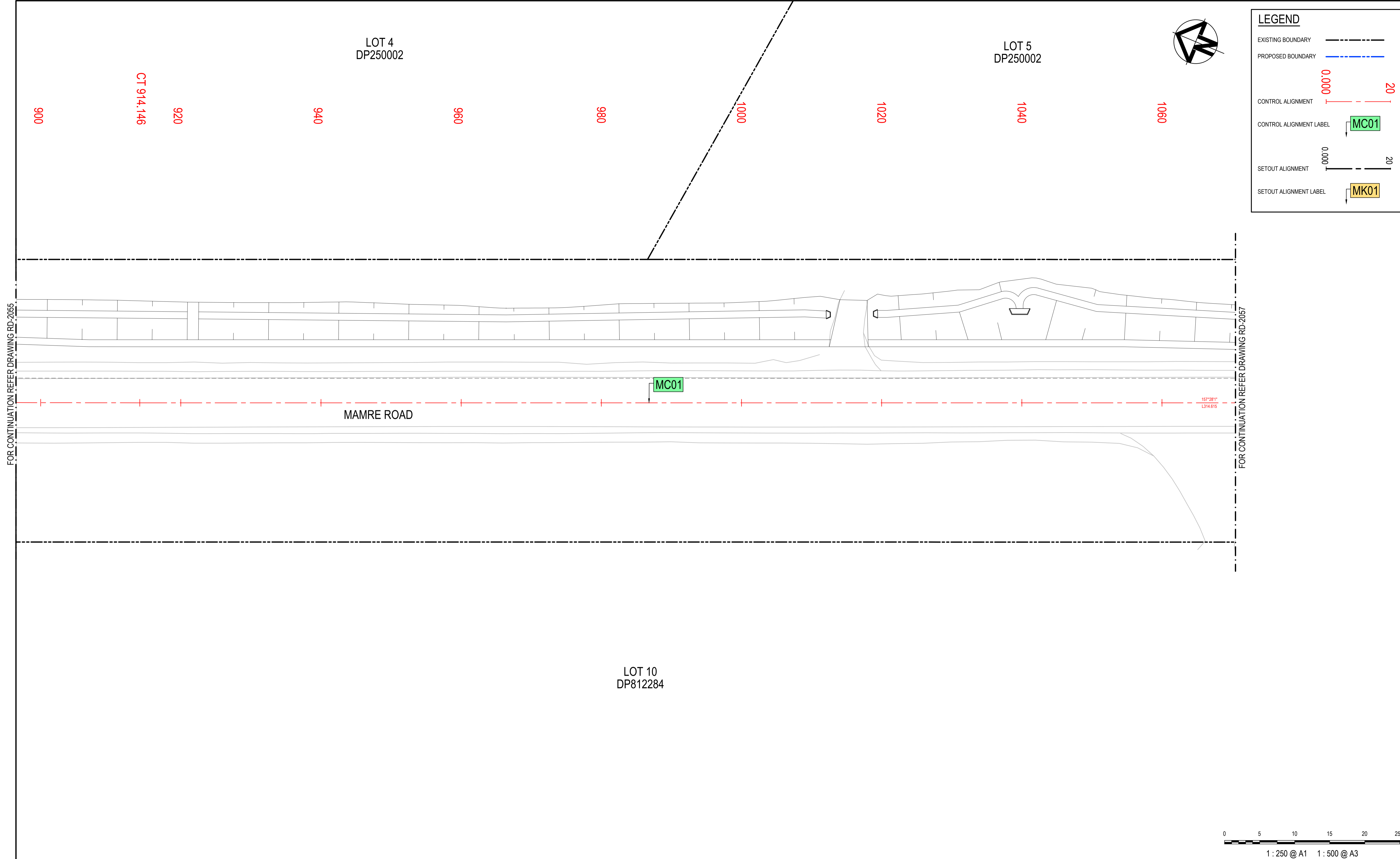
Client	
--------	------

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ALIGNMENT CONTROL PLAN SHEET 5

Civil Engineers and Project Managers	<p>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</p>
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RD-2055
Issue	1

Issue	1
-------	---



LEGEND

EXISTING BOUNDARY

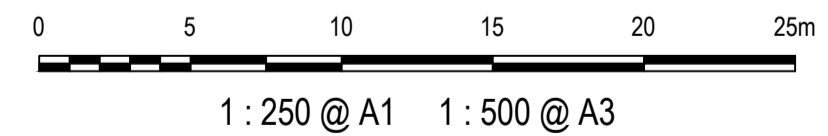
PROPOSED BOUNDARY

CONTROL ALIGNMENT

CONTROL ALIGNMENT LABEL

SETOUT ALIGNMENT

SETOUT ALIGNMENT LABEL



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TfNSW REGISTRATION No.		DS2000/000000	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

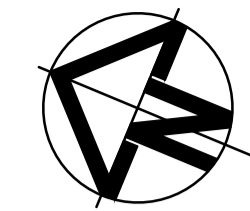
Title

ALIGNMENT CONTROL PLAN SHEET 6

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 APPROVAL	A1
	NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RD-2056	Issue
		1



LEGEND

EXISTING BOUNDARY

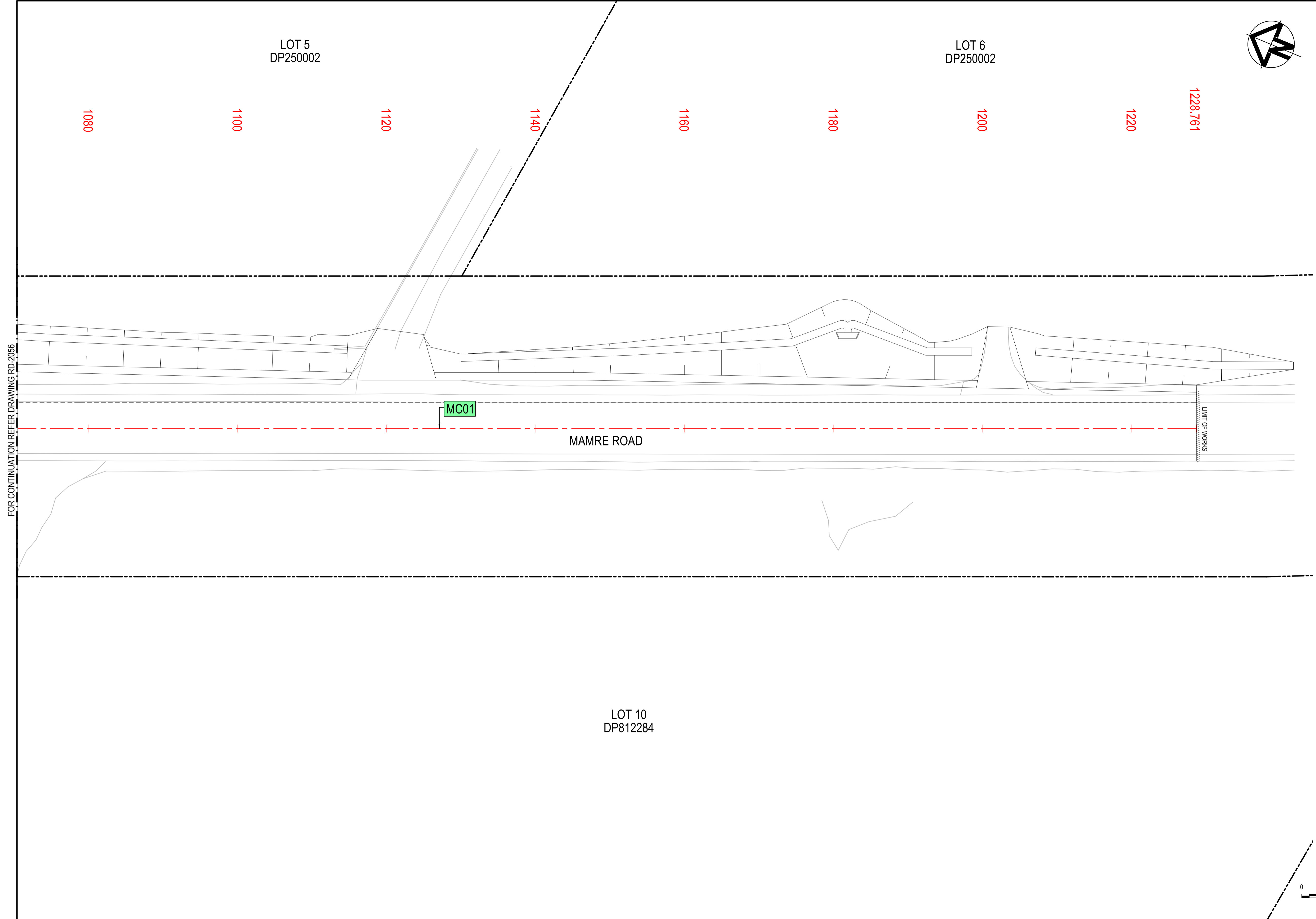
PROPOSED BOUNDARY

CONTROL ALIGNMENT

CONTROL ALIGNMENT LABEL

SETOUT ALIGNMENT

SETOUT ALIGNMENT LABEL



FOR CONTINUATION REFER DRAWING RD-2056

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

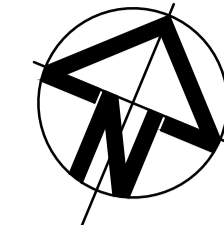
Client	
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Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TfNSW REGISTRATION No.	DS2000/000000		

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ALIGNMENT CONTROL PLAN SHEET 7

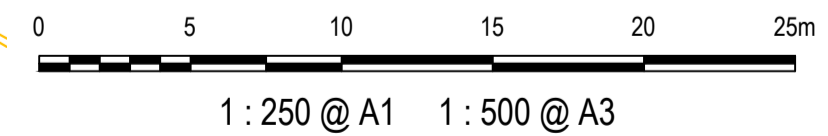
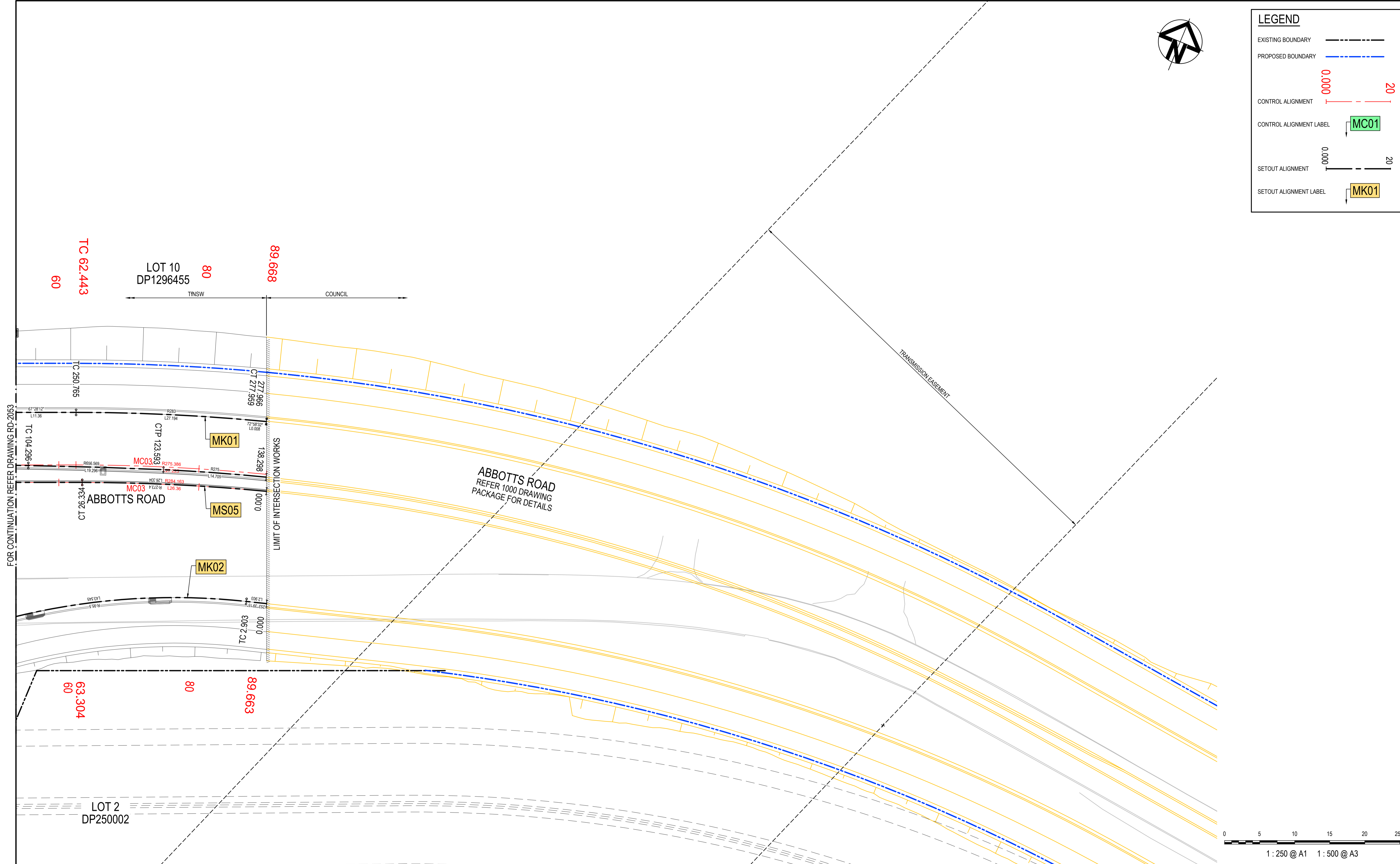
Civil Engineers and Project Managers	 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RD-2057
Issue	1

1 : 250 @ A1	1 : 500 @ A3
--------------	--------------



LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- CONTROL ALIGNMENT
- CONTROL ALIGNMENT LABEL MC01
- SETOUT ALIGNMENT
- SETOUT ALIGNMENT LABEL MK01

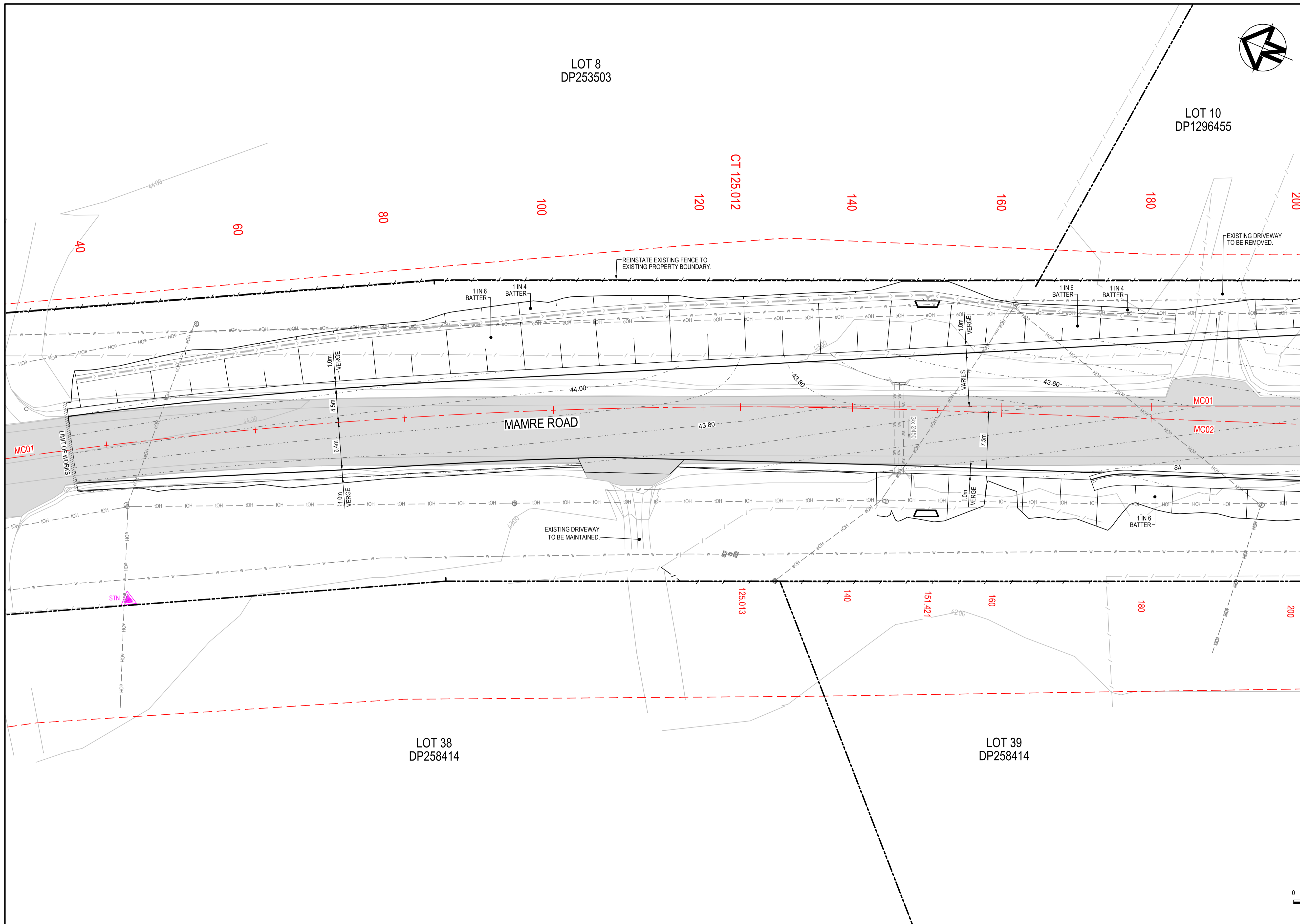


FOR CONTINUATION REFER DRAWING RD-2053

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

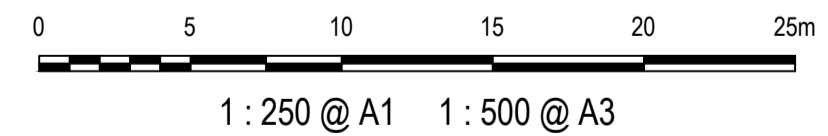
Client	FRASERS PROPERTY ESR Stockland FIFECAPITAL
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000
Drawn	GB Designed
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTT'S ROAD PROPOSED SIGNALISED INTERSECTION
Title	ALIGNMENT CONTROL PLAN SHEET 8
Civil Engineers 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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RD-2058
Issue	1

100mm on Original



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - -
EXISTING EASEMENT	---
EXISTING PAVEMENT	▒
EXISTING TREE TO BE REMOVED	○
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - -
TYPE SA KERB	SA
TYPE SF KERB	SF
TYPE SM KERB	SM
TYPE SE KERB	SE
TNSW TYPE 'SL' KERB	SL
SAFETY BARRIER	▬
KERB RAMP	▬
VEHICULAR CROSSING	VC
PAVEMENT SAWCUT	SAWCUT
EXISTING CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.00
PROPOSED DRAINAGE SWALE	▬
PROPOSED FENCE	▬
FINISHED SURFACE LEVEL	• F 43.00
STORMWATER PIT	▬
SURVEY CONTROL MARKER	STN
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	eOH
COMMUNICATIONS OVERHEAD	ioH
WATER SERVICE	---
STORMWATER	---
PROPOSED SERVICES	
LIGHT POLE	○
UTILITY POLE	•
SIGNAL POST	▬

FOR CONTINUATION REFER DRAWING RD-2102



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scalcs	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TNSW REGISTRATION No.	DS2000/000000	Approved	

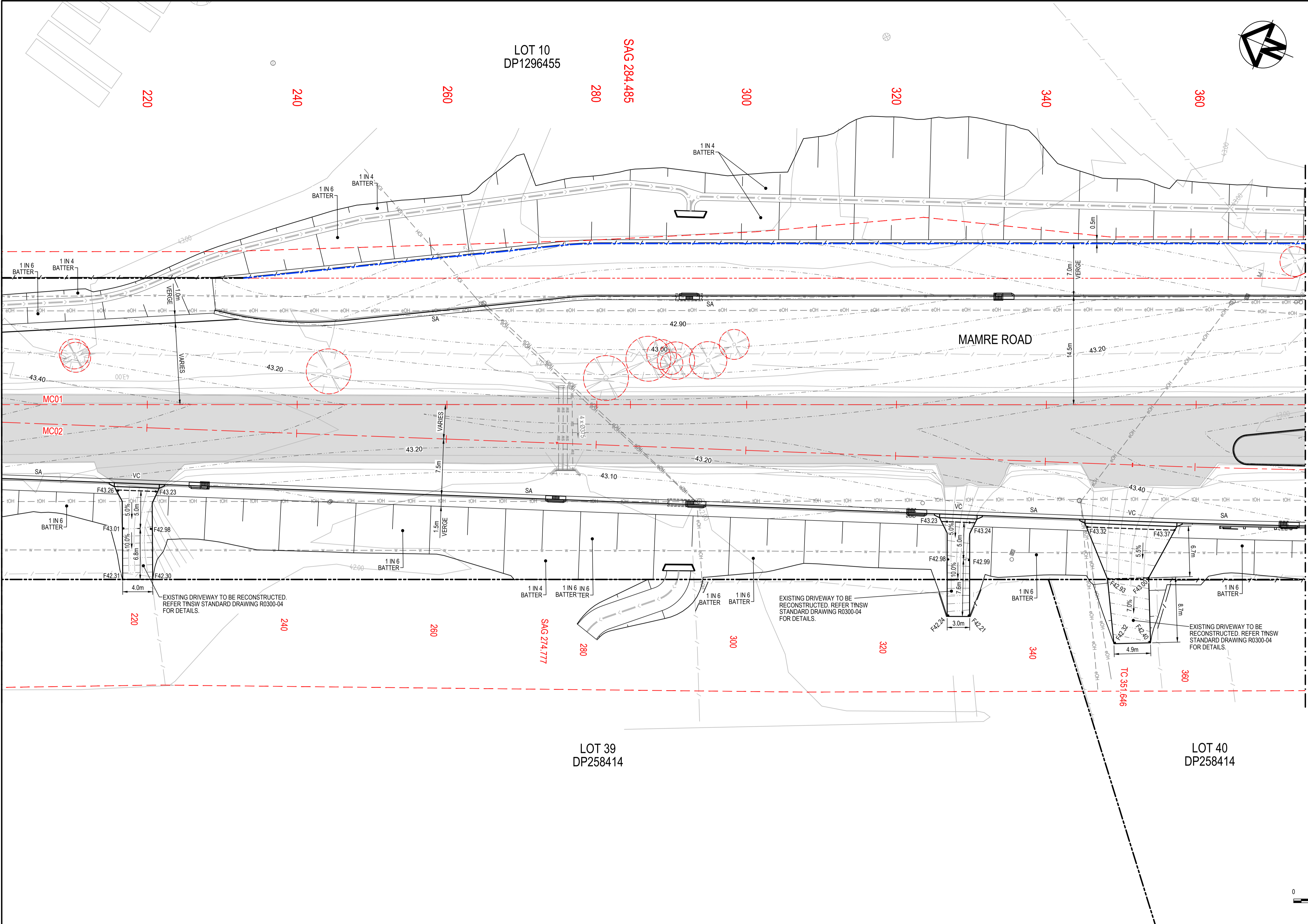
Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**ROADWORKS 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

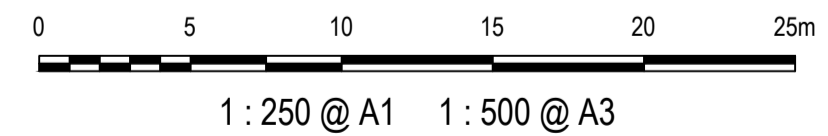
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	RD-2101	Issue
		1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	---
EXISTING EASEMENT	---
EXISTING PAVEMENT	■
EXISTING TREE TO BE REMOVED	○
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
TYPE SA KERB	SA
TYPE SF KERB	SF
TYPE SM KERB	SM
TYPE SE KERB	SE
TNSW TYPE 'SL' KERB	SL
SAFETY BARRIER	---
KERB RAMP	---
VEHICULAR CROSSING	VC
PAVEMENT SAWCUT	SAWCUT
EXISTING CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.00
PROPOSED DRAINAGE SWALE	---
PROPOSED FENCE	---
FINISHED SURFACE LEVEL	• F 43.00
STORMWATER PIT	---
SURVEY CONTROL MARKER	STN
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	EOH
COMMUNICATIONS OVERHEAD	IOH
WATER SERVICE	---
STORMWATER	SW
PROPOSED SERVICES	
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---

FOR CONTINUATION REFER DRAWING RD-2101

FOR CONTINUATION REFER DRAWING RD-2103

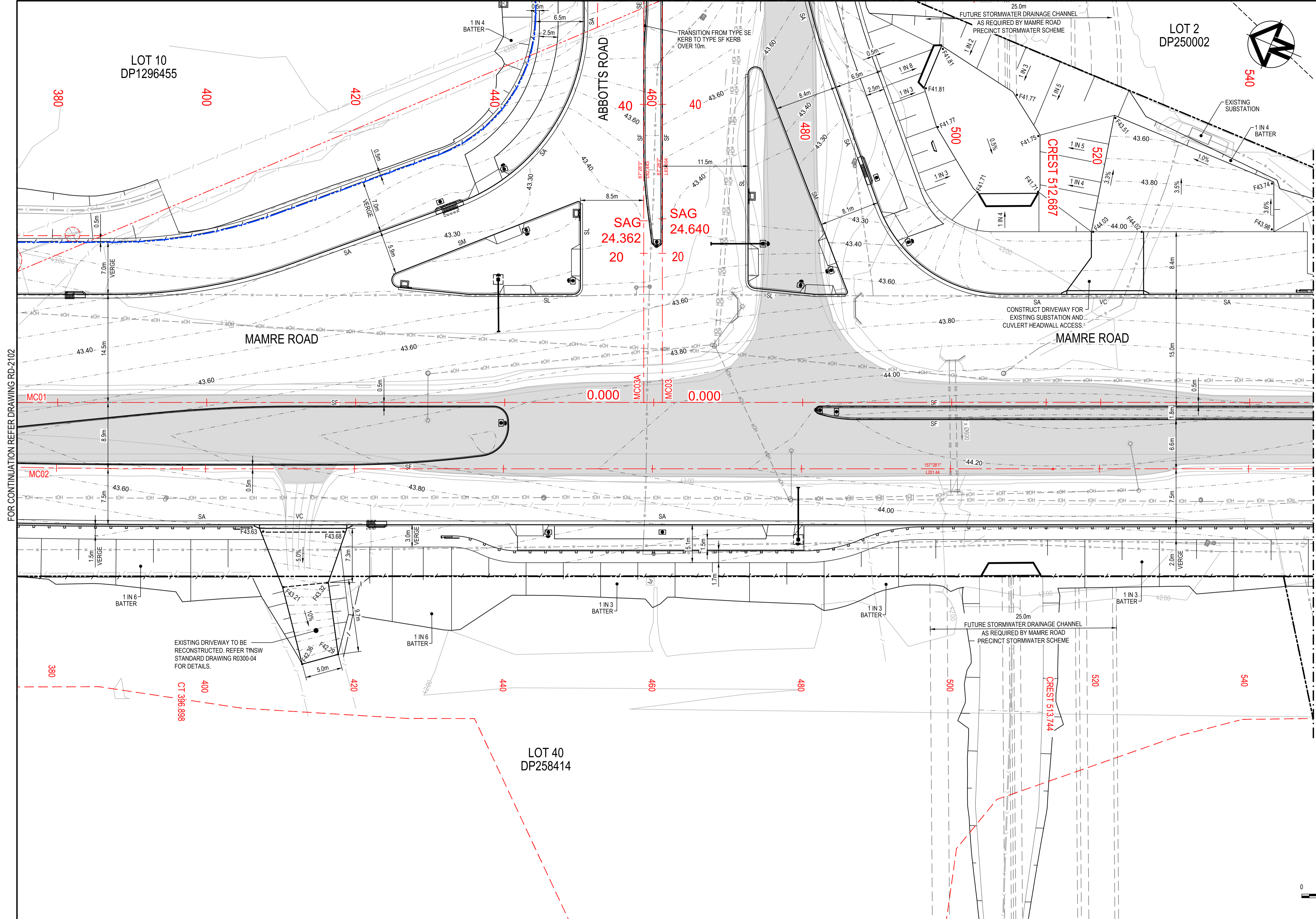


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Scopes	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

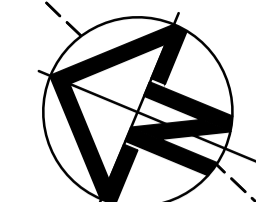
Drawn	GB
Designed	GB
Checked	AL
Approved	
Title	
ROADWORKS PLAN SHEET 2	

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RD-2102
Issue	1



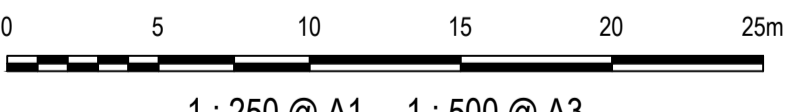
LEGEND

- EXISTING BOUNDARY (dashed black line)
- EXISTING BOUNDARY TO BE REMOVED (dashed red line)
- EXISTING EASEMENT (dotted black line)
- EXISTING PAVEMENT (grey fill)
- EXISTING TREE TO BE REMOVED (red circle)
- PROPOSED BOUNDARY (dashed blue line)
- SP2 BOUNDARY (dashed red line)
- TYPE SA KERB (SA)
- TYPE SF KERB (SF)
- TYPE SM KERB (SM)
- TYPE SE KERB (SE)
- TNSW TYPE 'SL' KERB (SL)
- SAFETY BARRIER (line with triangles)
- KERB RAMP (trapezoidal shape)
- VEHICULAR CROSSING (VC)
- PAVEMENT SAWCUT (SAWCUT)
- EXISTING CONTOUR (MAJOR) (43.00)
- PROPOSED CONTOUR (MAJOR) (43.00)
- PROPOSED CONTOUR (MINOR) (43.00)
- PROPOSED DRAINAGE SWALE (line with arrows)
- PROPOSED FENCE (line with dashes)
- FINISHED SURFACE LEVEL (F 43.00)
- STORMWATER PIT (rectangle with 'P')
- SURVEY CONTROL MARKER (triangle with 'STN')
- EXISTING SERVICES
- ELECTRICITY (line with circles)
- ELECTRICITY OVERHEAD (line with circles)
- COMMUNICATIONS OVERHEAD (line with circles)
- WATER SERVICE (line with circles)
- STORMWATER (line with circles)
- PROPOSED SERVICES
- LIGHT POLE (circle with 'L')
- UTILITY POLE (circle with 'U')
- SIGNAL POST (circle with 'S')



FOR CONTINUATION REFER DRAWING RD-2104

FOR CONTINUATION REFER DRAWING RD-2102



1 : 250 @ A1 1 : 500 @ A3

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROADWORKS PLAN SHEET 3
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RD-2103
Issue	1

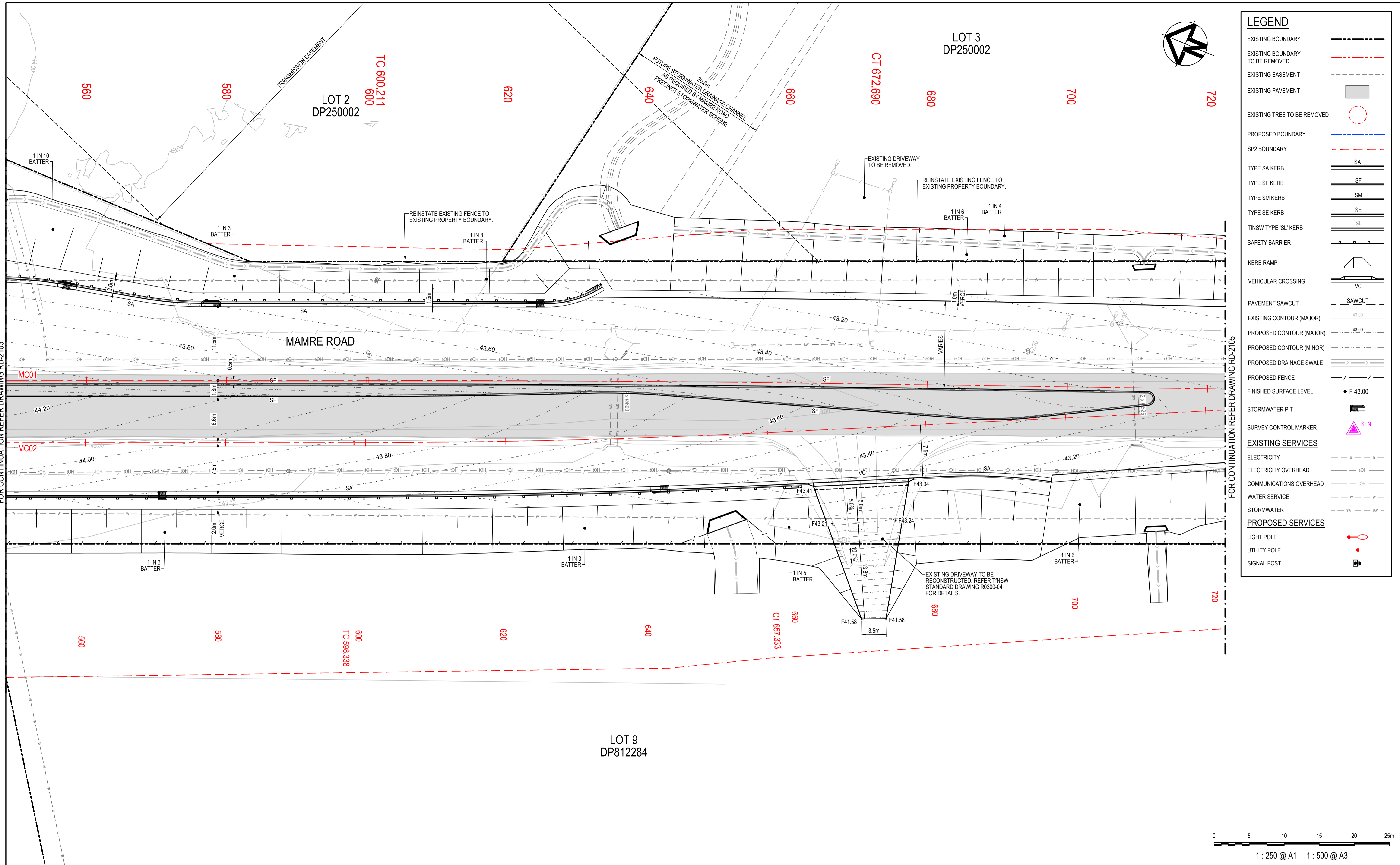
Civil Engineers and Project Managers

at&I

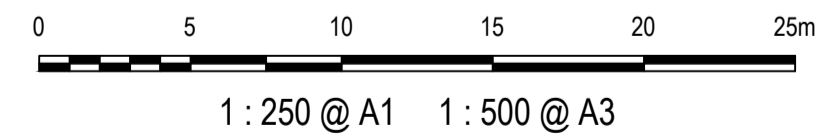
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

100mm on Original

Date Plotted: 3 Nov 2023 - 05:47PM File Name: F:\21-843 Aldington Road Design\6.0 Drgs\Civil\Final\2000_Mamre Rd Abbots Rd Intersection Design\21-843-02-RD-2103.dwg



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - -
EXISTING EASEMENT	---
EXISTING PAVEMENT	■
EXISTING TREE TO BE REMOVED	○
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - -
TYPE SA KERB	SA
TYPE SF KERB	SF
TYPE SM KERB	SM
TYPE SE KERB	SE
TNSW TYPE 'SL' KERB	SL
SAFETY BARRIER	---
KERB RAMP	---
VEHICULAR CROSSING	VC
PAVEMENT SAWCUT	SAWCUT
EXISTING CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.00
PROPOSED DRAINAGE SWALE	---
PROPOSED FENCE	---
FINISHED SURFACE LEVEL	• F 43.00
STORMWATER PIT	---
SURVEY CONTROL MARKER	STN
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	eOH
COMMUNICATIONS OVERHEAD	iOH
WATER SERVICE	---
STORMWATER	---
PROPOSED SERVICES	
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---

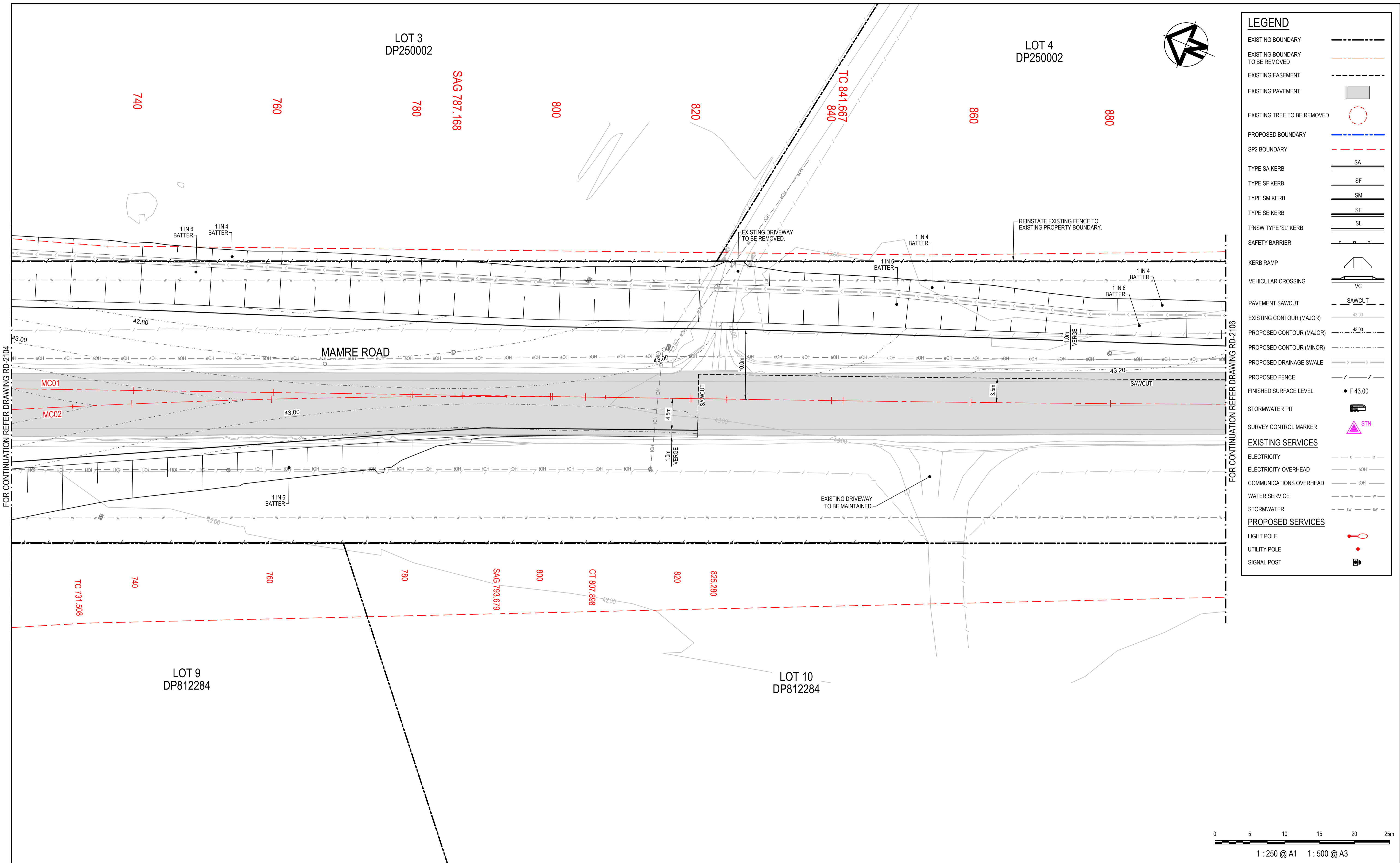


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	FRASERS PROPERTY	ESR	Stockland	FIFECAPITAL
Scales	1 : 250 @ A1	Drawn	GB	GB
Grid	GDA2020	Checked	AL	
Height Datum	AHD	Approved		
TfNSW REGISTRATION No.	DS2000/000000			

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROADWORKS PLAN SHEET 4

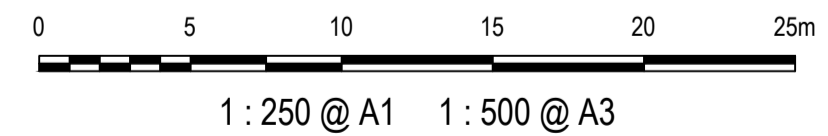
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RD-2104
	A1
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
EXISTING PAVEMENT	▒
EXISTING TREE TO BE REMOVED	○
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
TYPE SA KERB	SA
TYPE SF KERB	SF
TYPE SM KERB	SM
TYPE SE KERB	SE
TNSW TYPE 'SL' KERB	SL
SAFETY BARRIER	▬
KERB RAMP	▬
VEHICULAR CROSSING	VC
PAVEMENT SAWCUT	SAWCUT
EXISTING CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.20
PROPOSED DRAINAGE SWALE	▬
PROPOSED FENCE	▬
FINISHED SURFACE LEVEL	• F 43.00
STORMWATER PIT	▬
SURVEY CONTROL MARKER	STN
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	eOH
COMMUNICATIONS OVERHEAD	iOH
WATER SERVICE	---
STORMWATER	---
PROPOSED SERVICES	
LIGHT POLE	○
UTILITY POLE	•
SIGNAL POST	▬

FOR CONTINUATION REFER DRAWING RD-2104

FOR CONTINUATION REFER DRAWING RD-2106

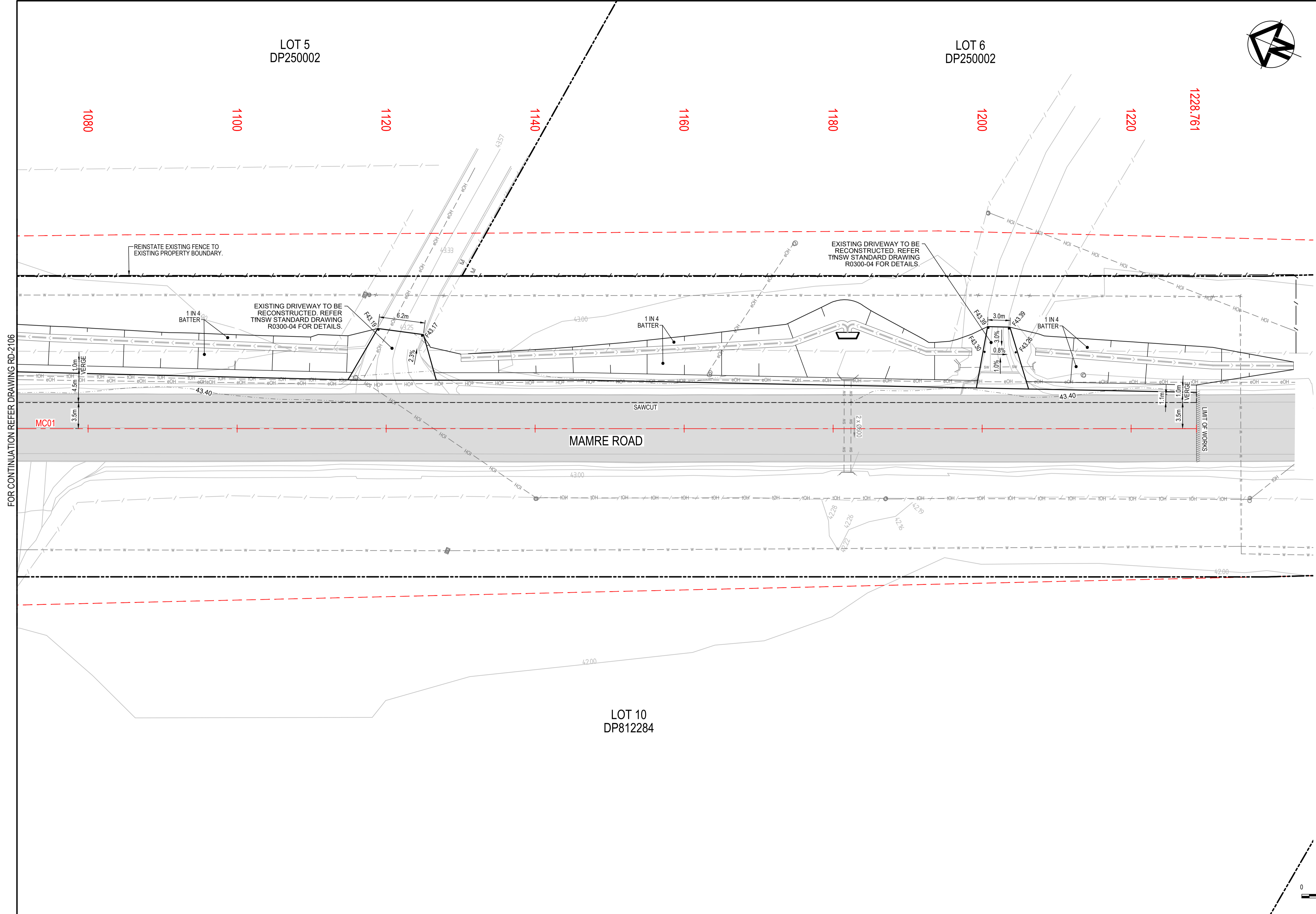


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

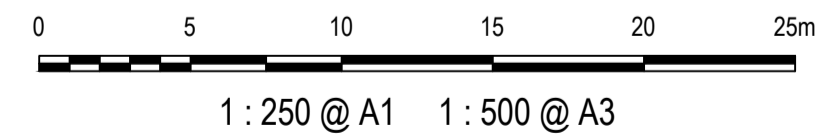
Drawn	GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Designed	GB	
Checked	AL	
Approved		Title ROADWORKS PLAN SHEET 5

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. RD-2105	Issue 1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
EXISTING PAVEMENT	
EXISTING TREE TO BE REMOVED	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
TYPE SA KERB	
TYPE SF KERB	
TYPE SM KERB	
TYPE SE KERB	
TNSW TYPE 'SL' KERB	
SAFETY BARRIER	
KERB RAMP	
VEHICULAR CROSSING	
PAVEMENT SAWCUT	
EXISTING CONTOUR (MAJOR)	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED DRAINAGE SWALE	
PROPOSED FENCE	
FINISHED SURFACE LEVEL	
STORMWATER PIT	
SURVEY CONTROL MARKER	
EXISTING SERVICES	
ELECTRICITY	
ELECTRICITY OVERHEAD	
COMMUNICATIONS OVERHEAD	
WATER SERVICE	
STORMWATER	
PROPOSED SERVICES	
LIGHT POLE	
UTILITY POLE	
SIGNAL POST	

FOR CONTINUATION REFER DRAWING RD-2106

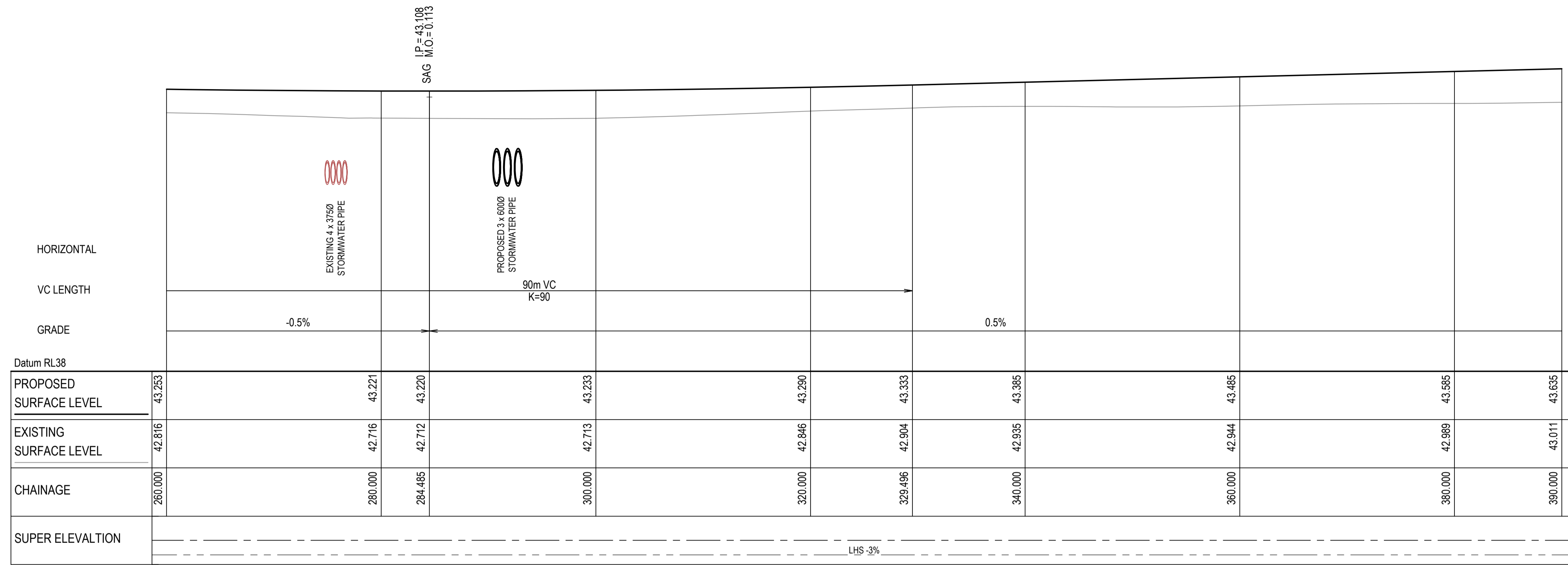


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

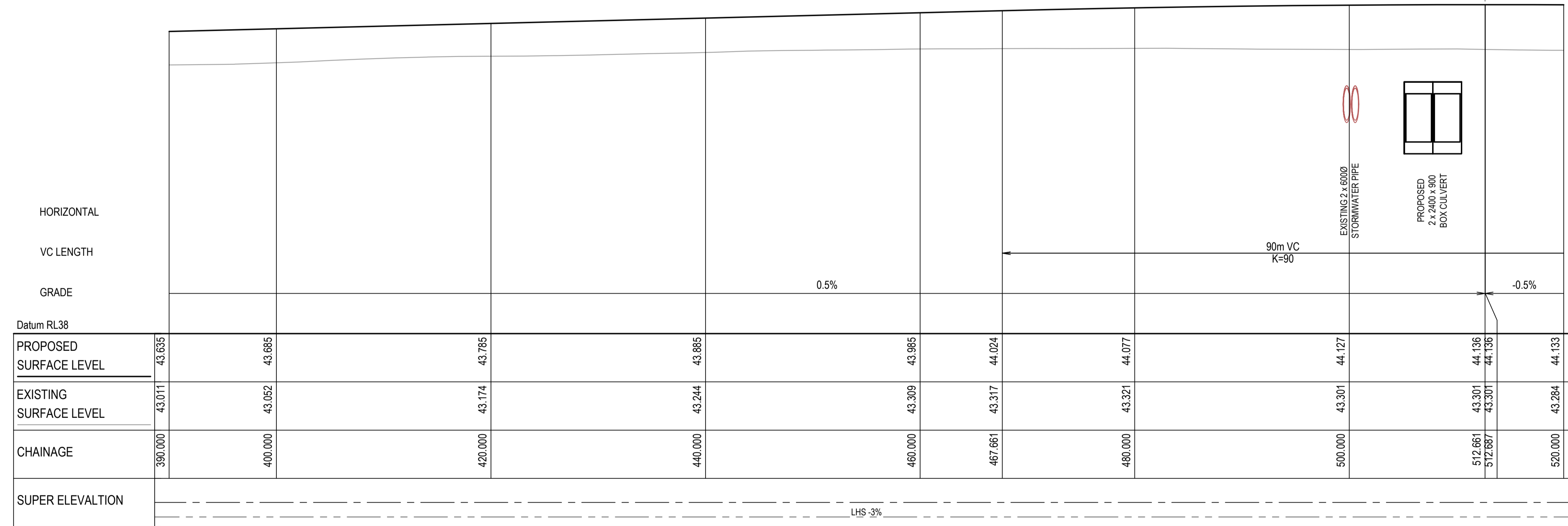
Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROADWORKS PLAN SHEET 7

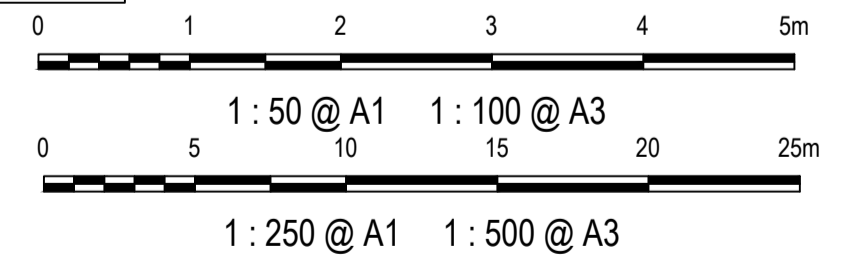
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RD-2107
Issue	1



MAMRE ROAD
MC01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MAMRE ROAD
MC01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn GB

Designed GB

Checked AL

Approved

Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**ROAD
LONGITUDINAL SECTION
MC01
SHEET 2**

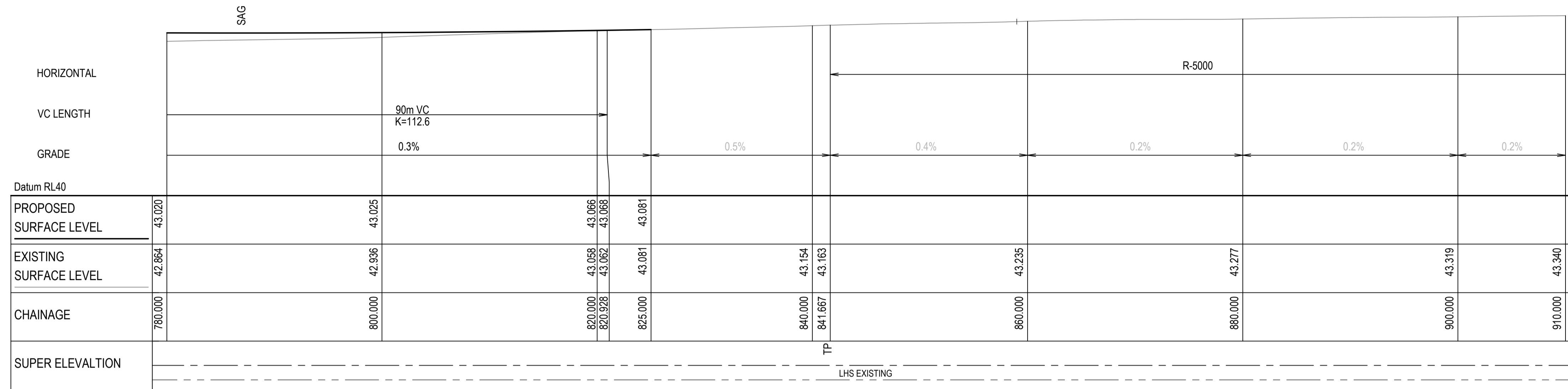
Civil Engineers and Project Managers

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

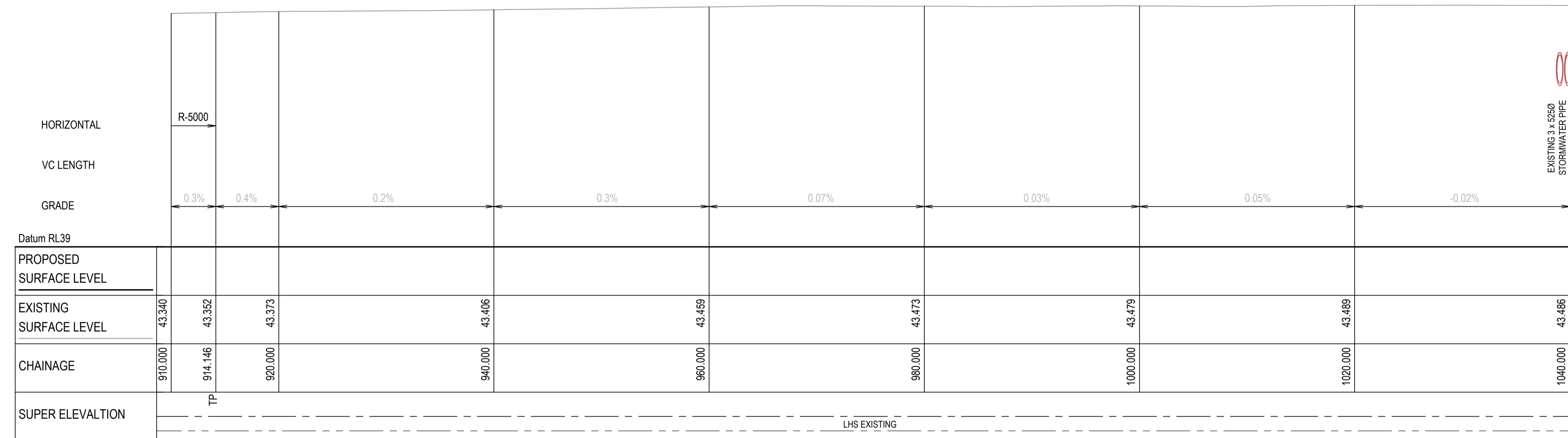
Status
**FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.
RL-2122

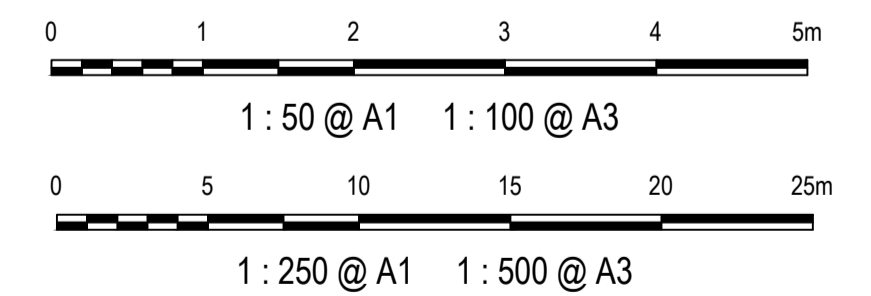
Issue
1



MAMRE ROAD
MC01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MAMRE ROAD
MC01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn GB
Designed GB
Checked AL
Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD LONGITUDINAL SECTION MC01 SHEET 4

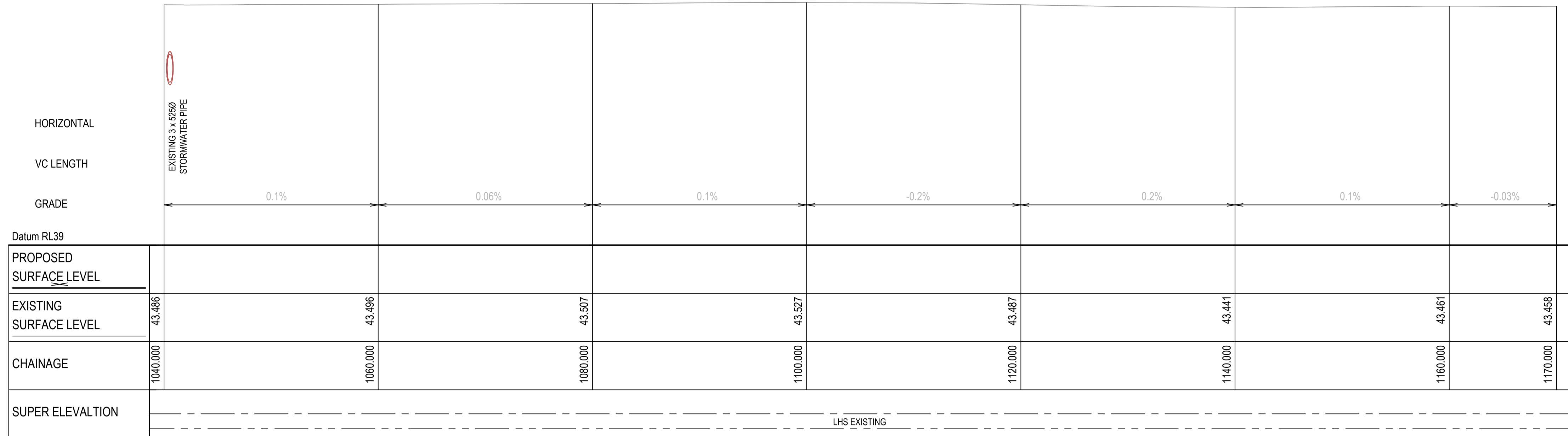
Civil Engineers and Project Managers

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

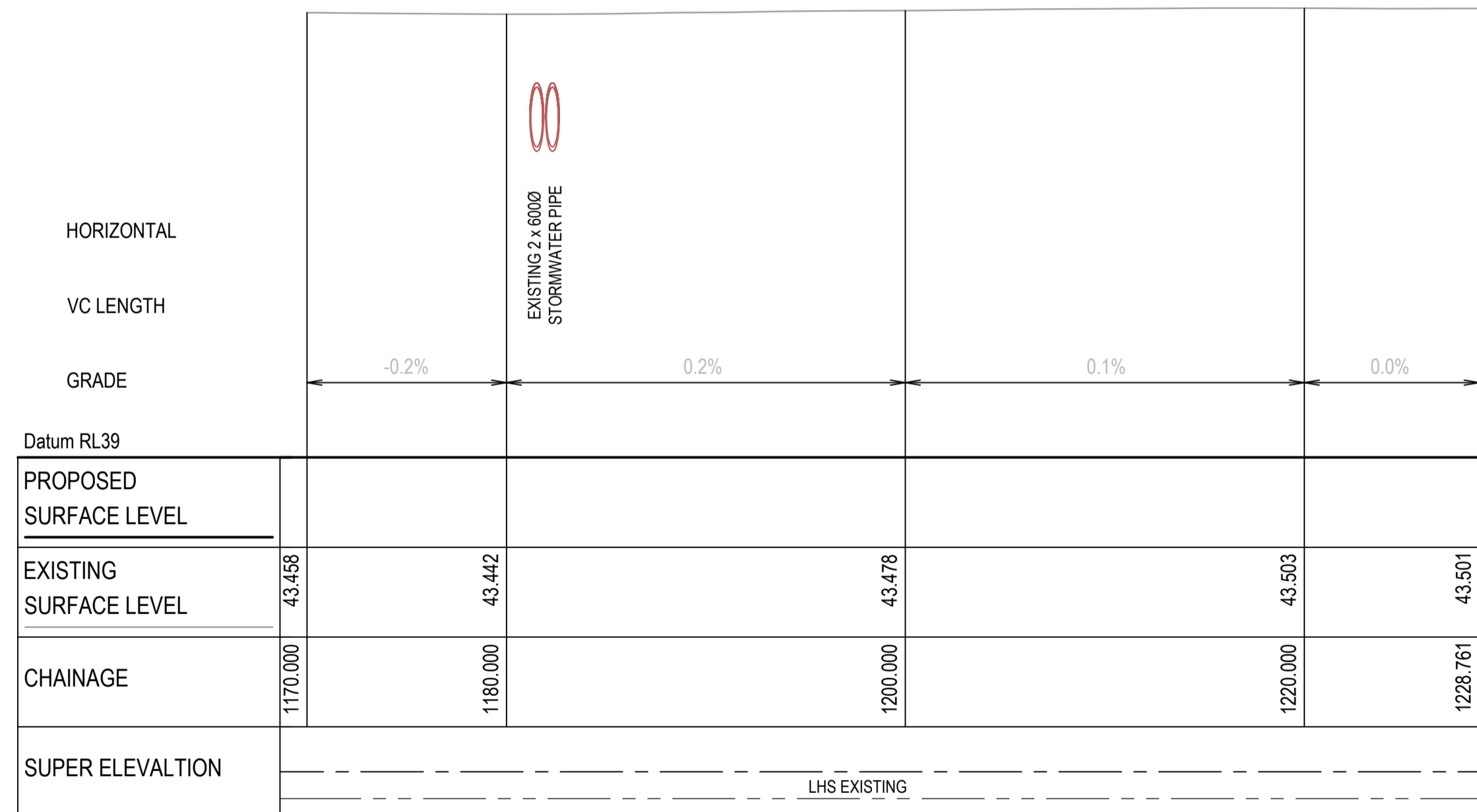
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2124

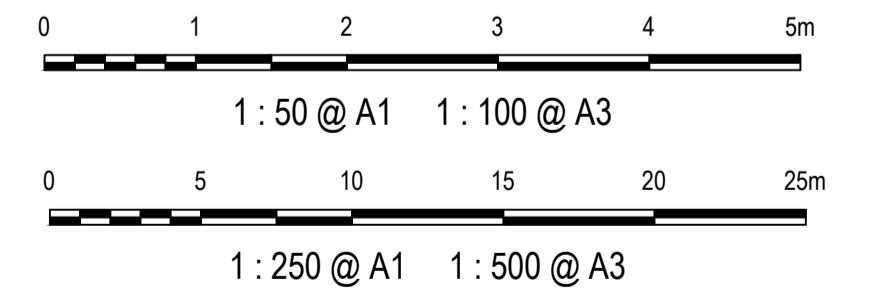
Issue
1



MAMRE ROAD
MC01 LONGITUDINAL SECTION
 SCALE 1:250 HORI.
 1:50 VERT.



MAMRE ROAD
MC01 LONGITUDINAL SECTION
 SCALE 1:250 HORI.
 1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
 1 : 50 (V) @ A1
 1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD LONGITUDINAL SECTION MC01 SHEET 5

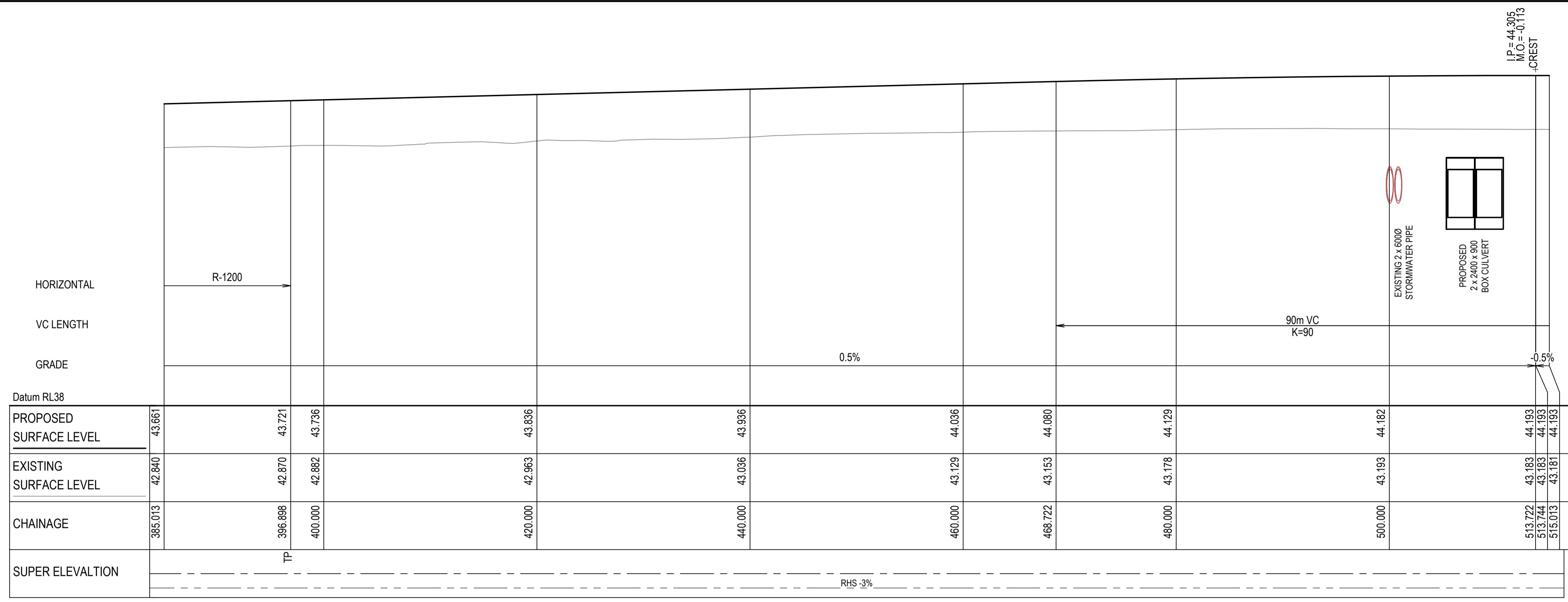
Civil Engineers and Project Managers

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

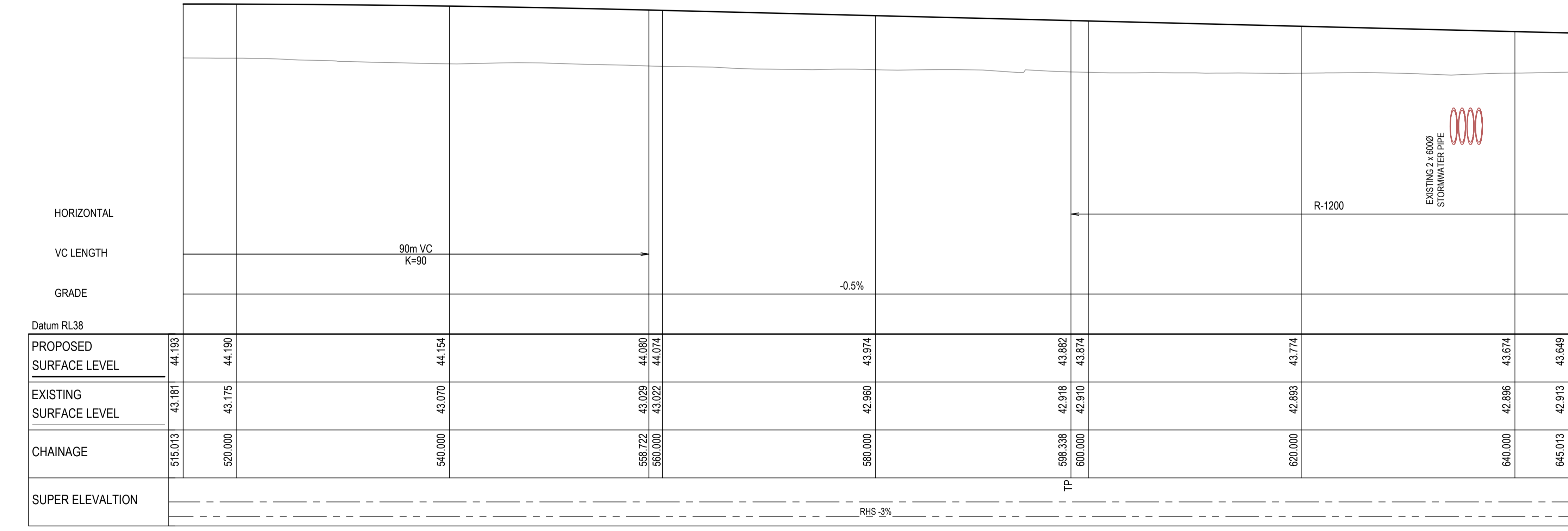
Status
FOR APPROVAL
 NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2125

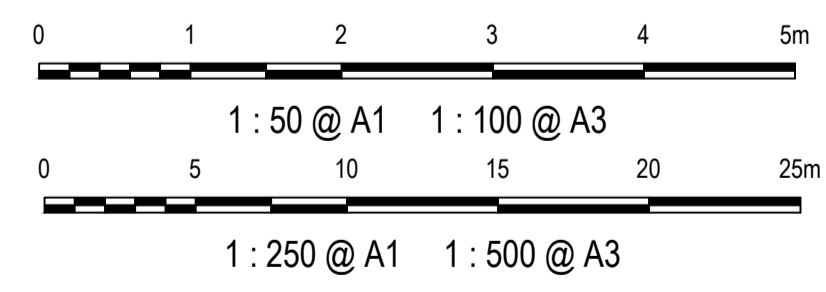
Issue
1



MAMRE ROAD
MC02 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MAMRE ROAD
MC02 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TNSW REGISTRATION No. DS2000/000000

Drawn GB
Designed GB
Checked AL
Approved

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title ROAD LONGITUDINAL SECTION MC02 SHEET 2

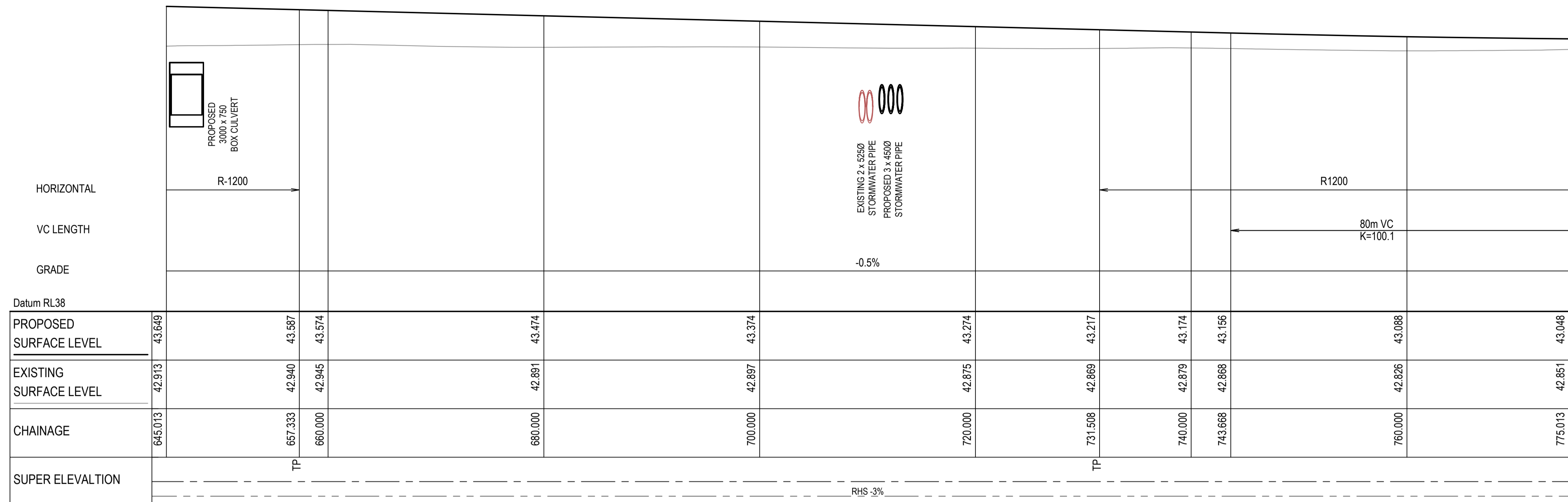
Civil Engineers and Project Managers

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

Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. RL-2132

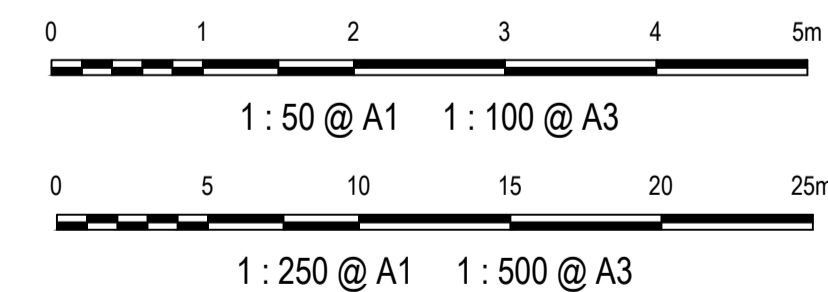
Issue 1



MAMRE ROAD
MC02 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MAMRE ROAD
MC02 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD LONGITUDINAL SECTION MC02 SHEET 3

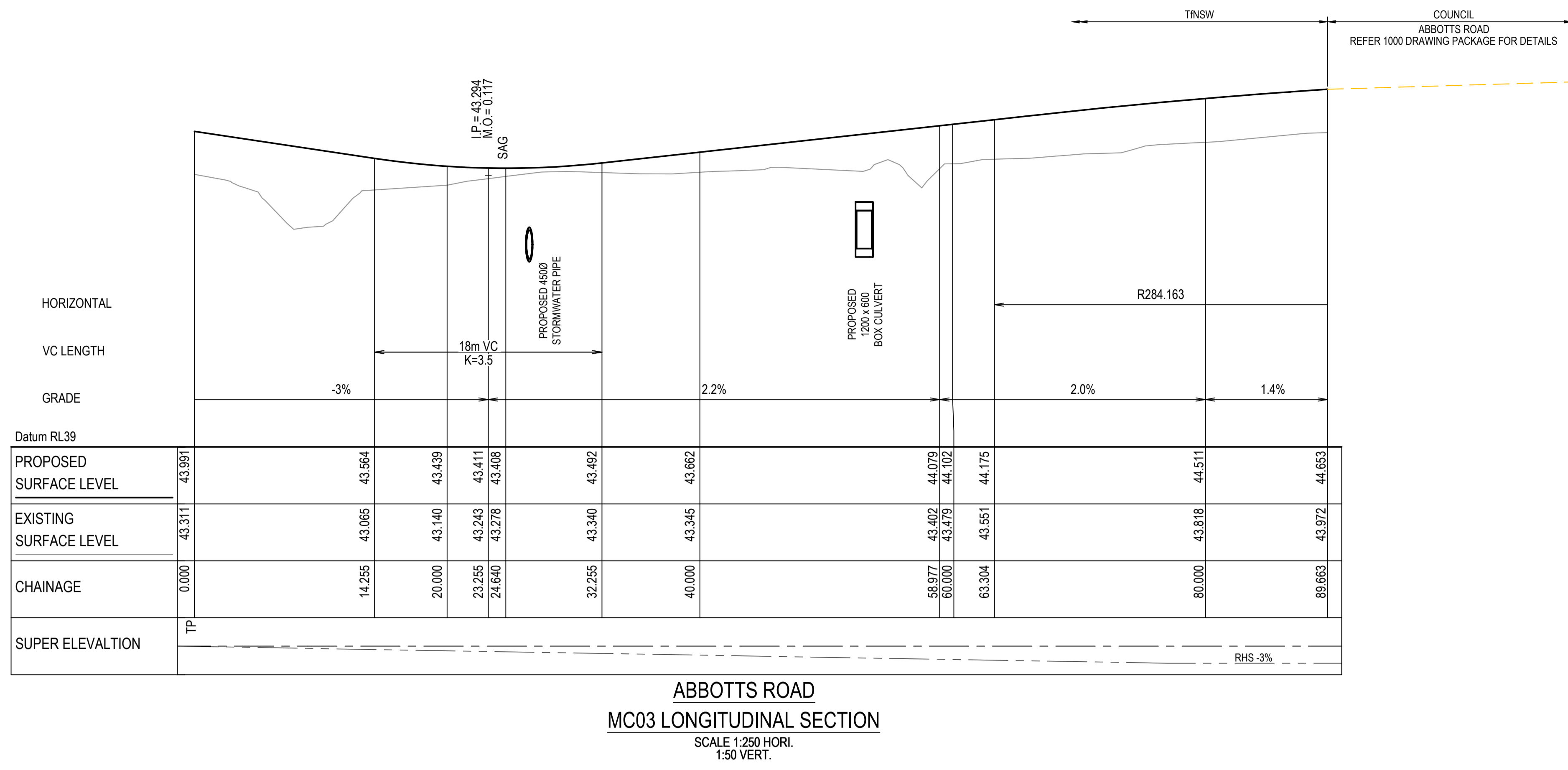
Civil Engineers and Project Managers

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

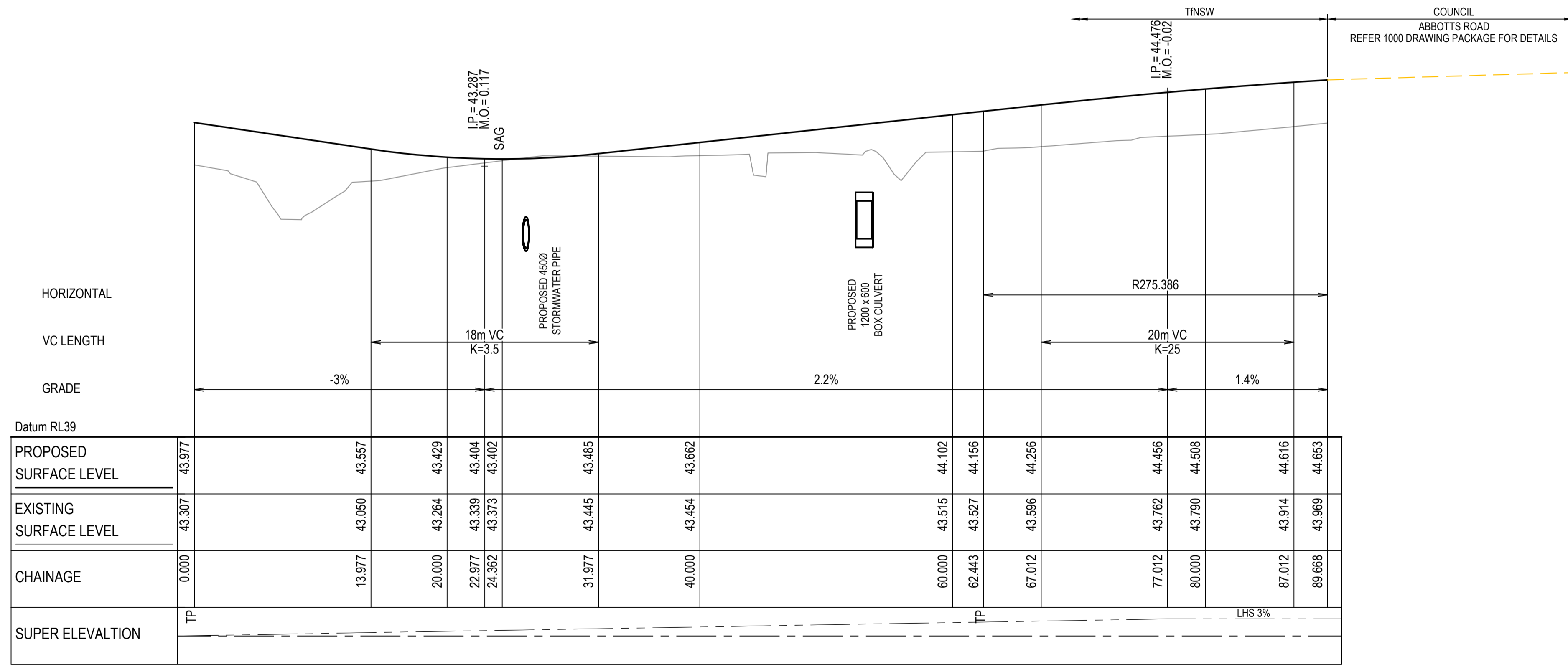
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2133

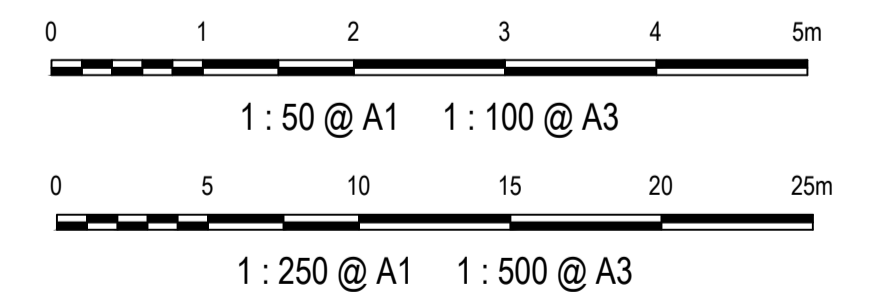
Issue
1



ABBOTTS ROAD
MC03 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



ABBOTTS ROAD
MC03A LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1:50 (V) @ A1
1:250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No. DS2000/000000

Drawn GB

Designed GB

Checked AL

Approved

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title ROAD LONGITUDINAL SECTION MC03

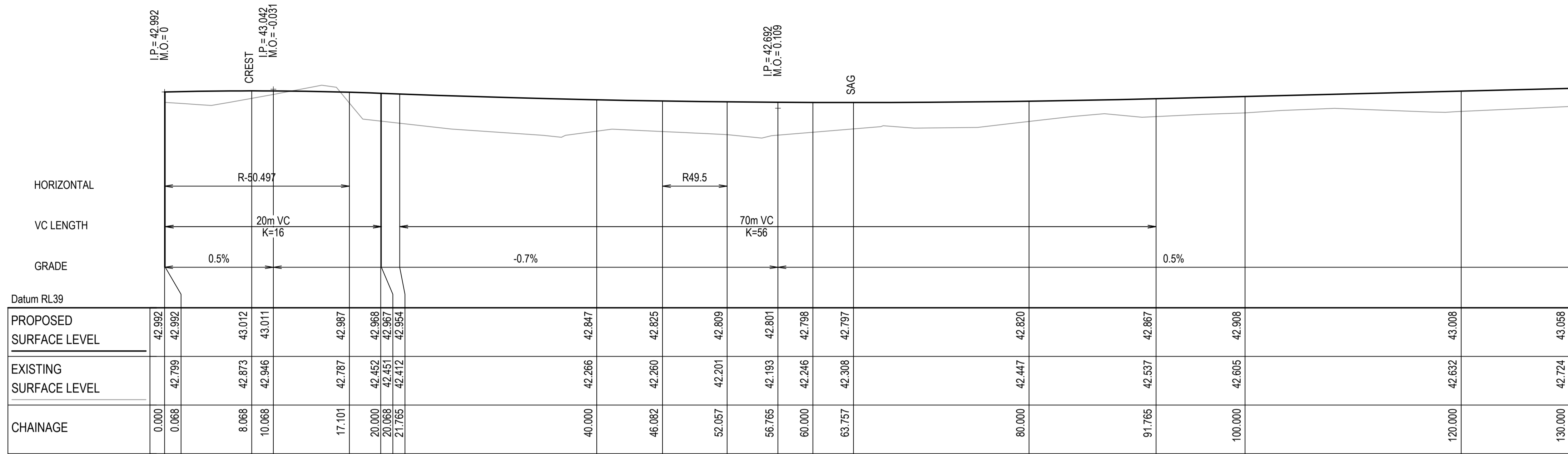
Civil Engineers and Project Managers

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

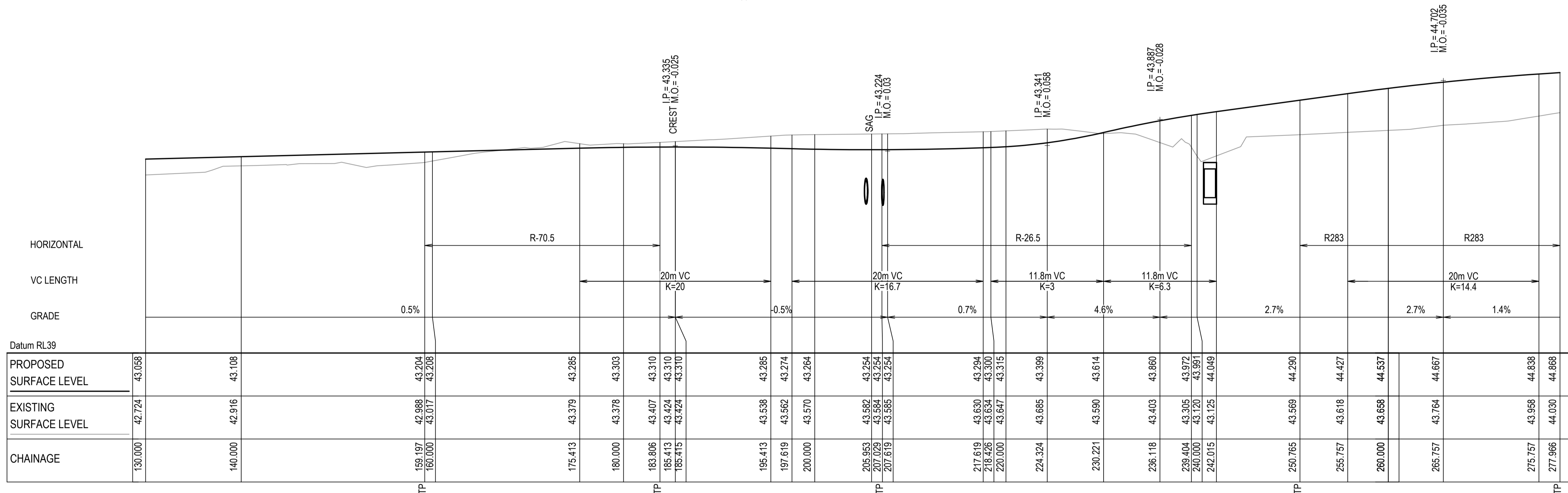
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. RL-2141

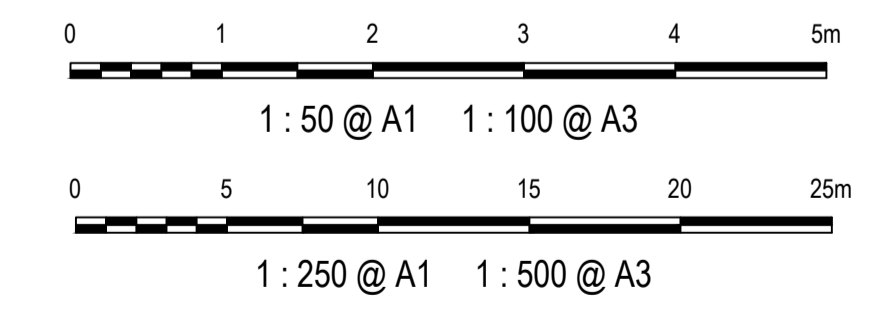
Issue 1



MK01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MK01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No. DS2000/000000

Drawn GB

Designed GB

Checked AL

Approved

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title KERB LONGITUDINAL SECTION MK01

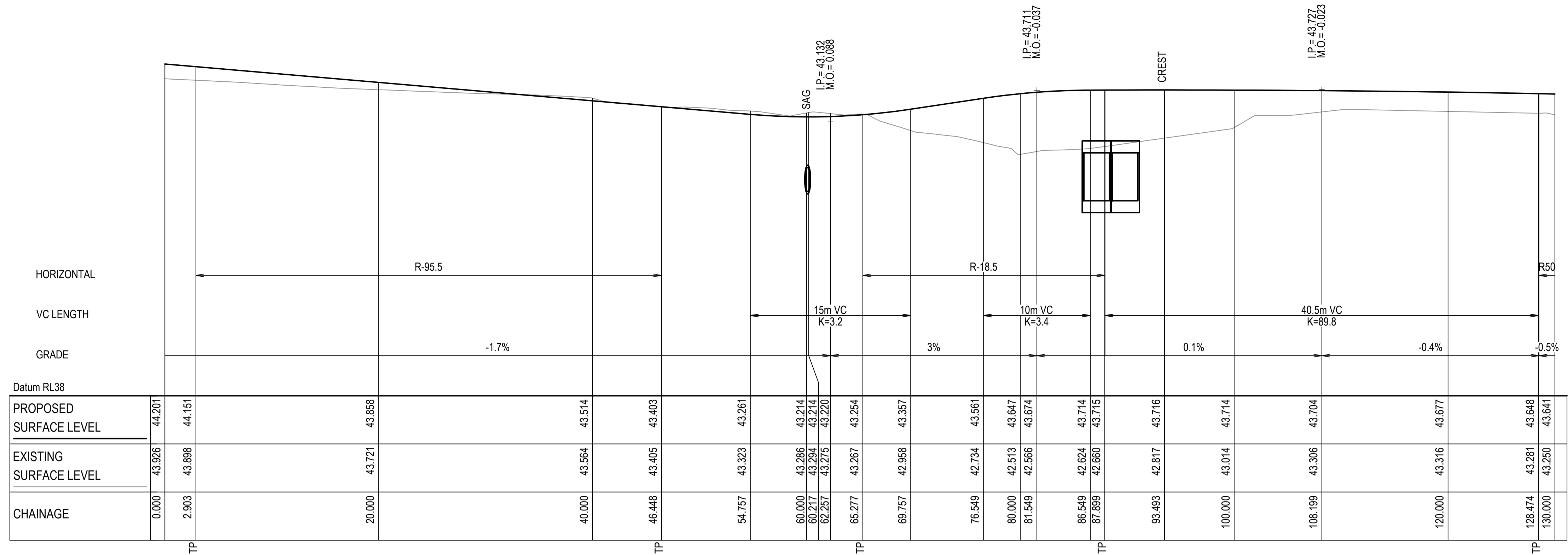
Civil Engineers and Project Managers

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION

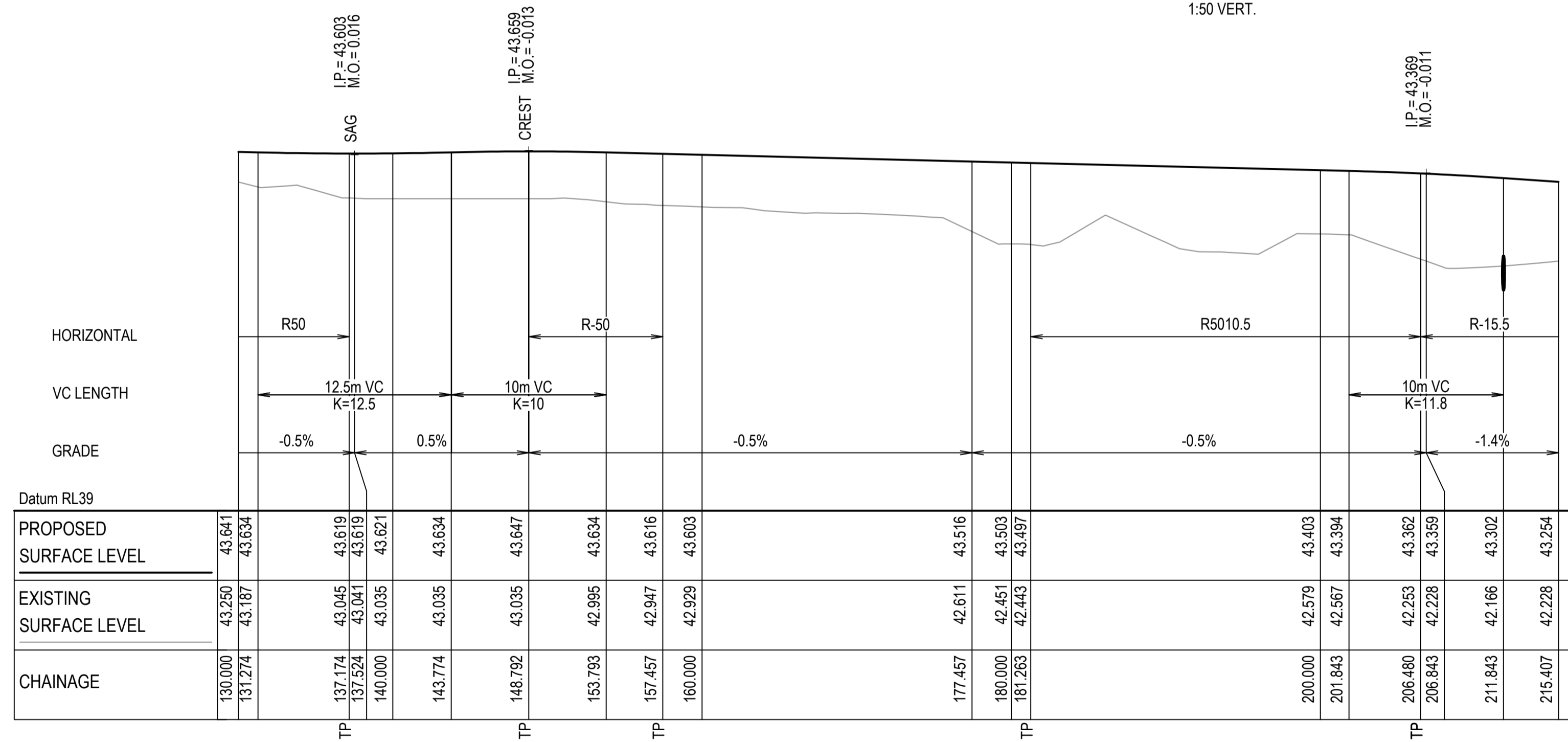
Project - Drawing No. RL-2151

Issue 1



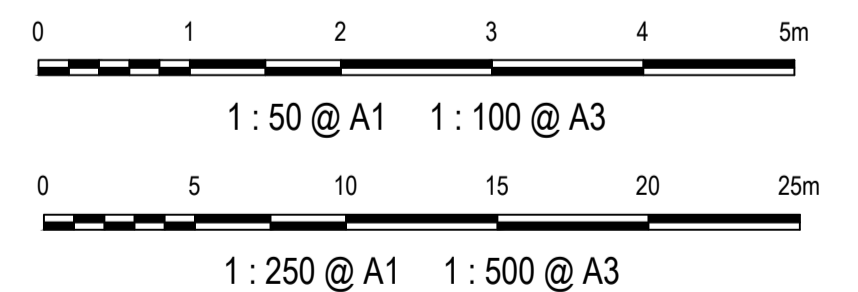
MK02 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



MK02 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
KERB LONGITUDINAL SECTION MK02

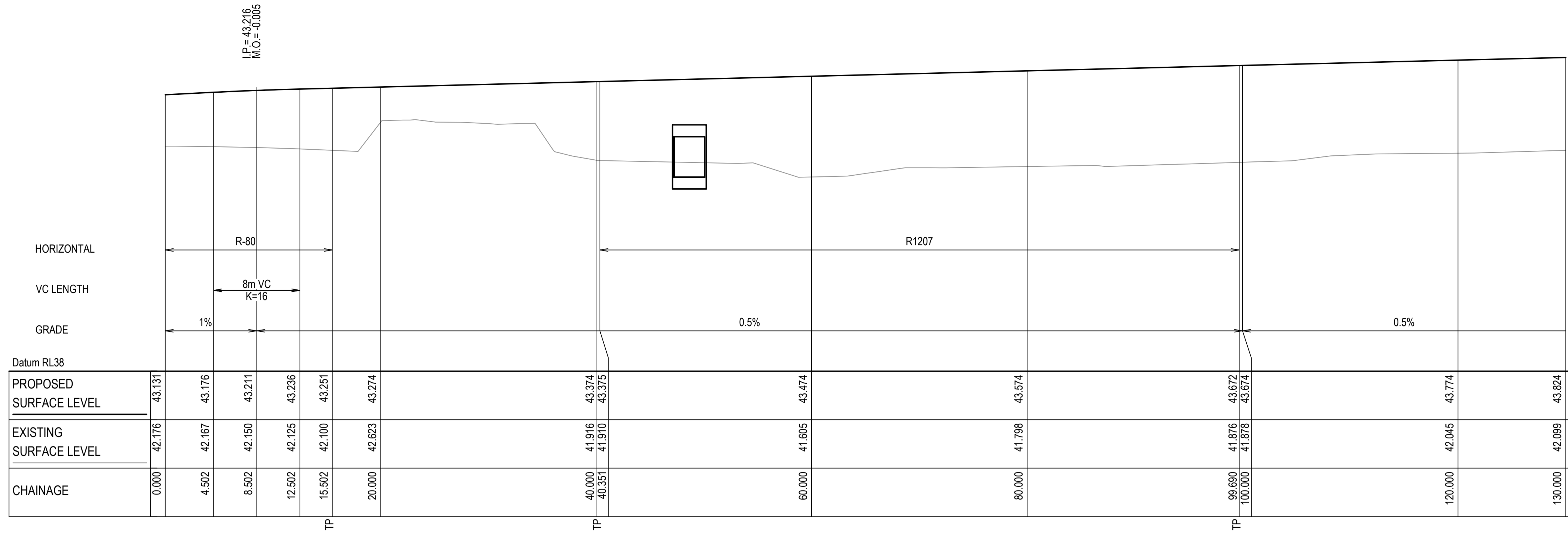
Civil Engineers and Project Managers

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

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2152

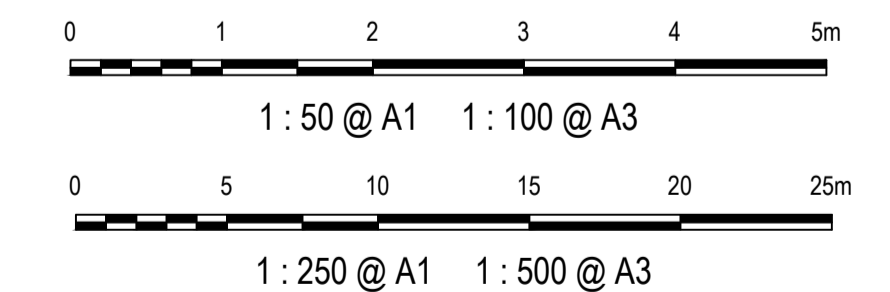
Issue
1



MK03 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MK03 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TFNSW REGISTRATION No. DS2000/000000

Drawn GB
Designed GB
Checked AL
Approved

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title KERB LONGITUDINAL SECTION MK03 SHEET 1

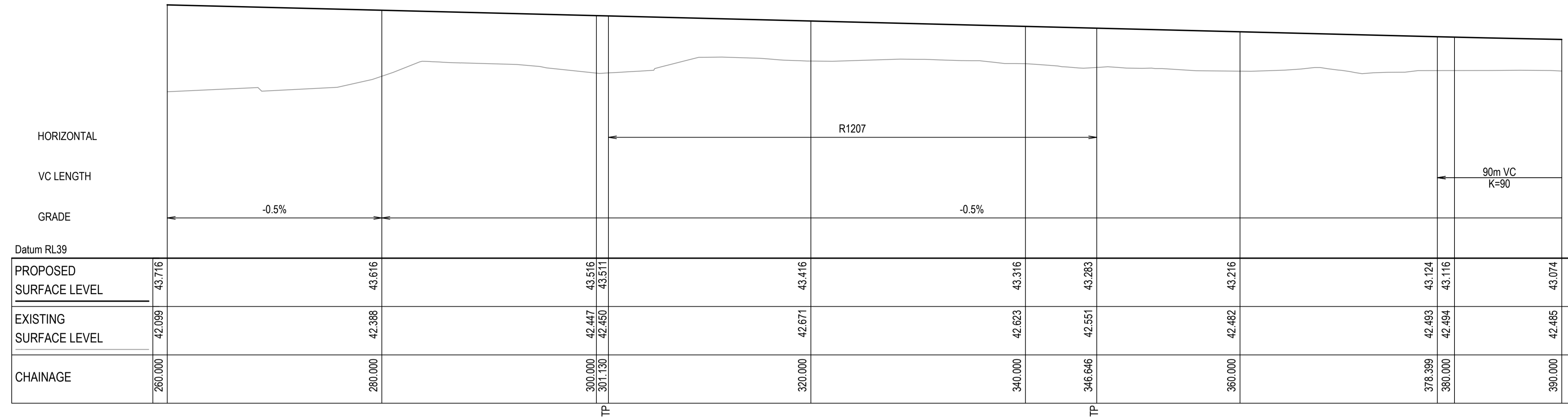
Civil Engineers and Project Managers

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION

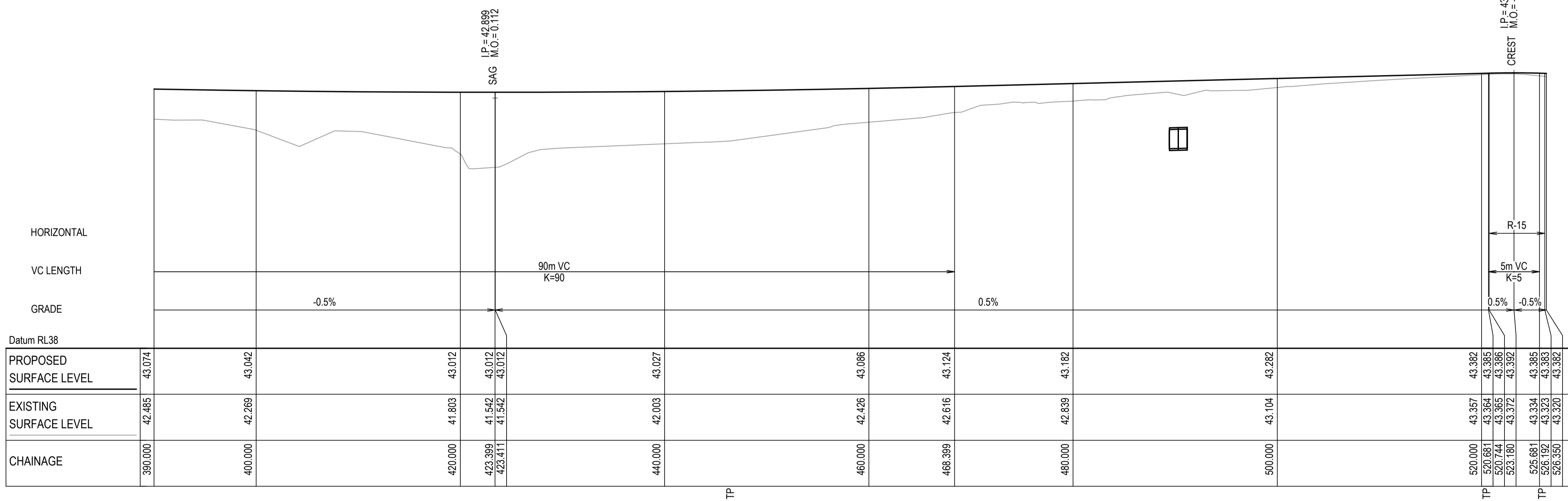
Project - Drawing No. RL-2153

Issue 1



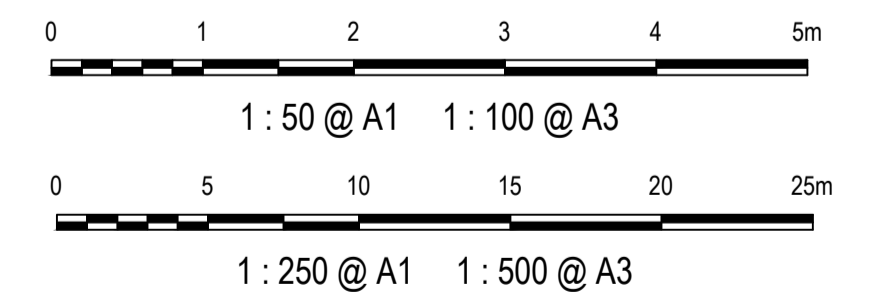
MK03 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



MK03 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
KERB LONGITUDINAL SECTION MK03 SHEET 2

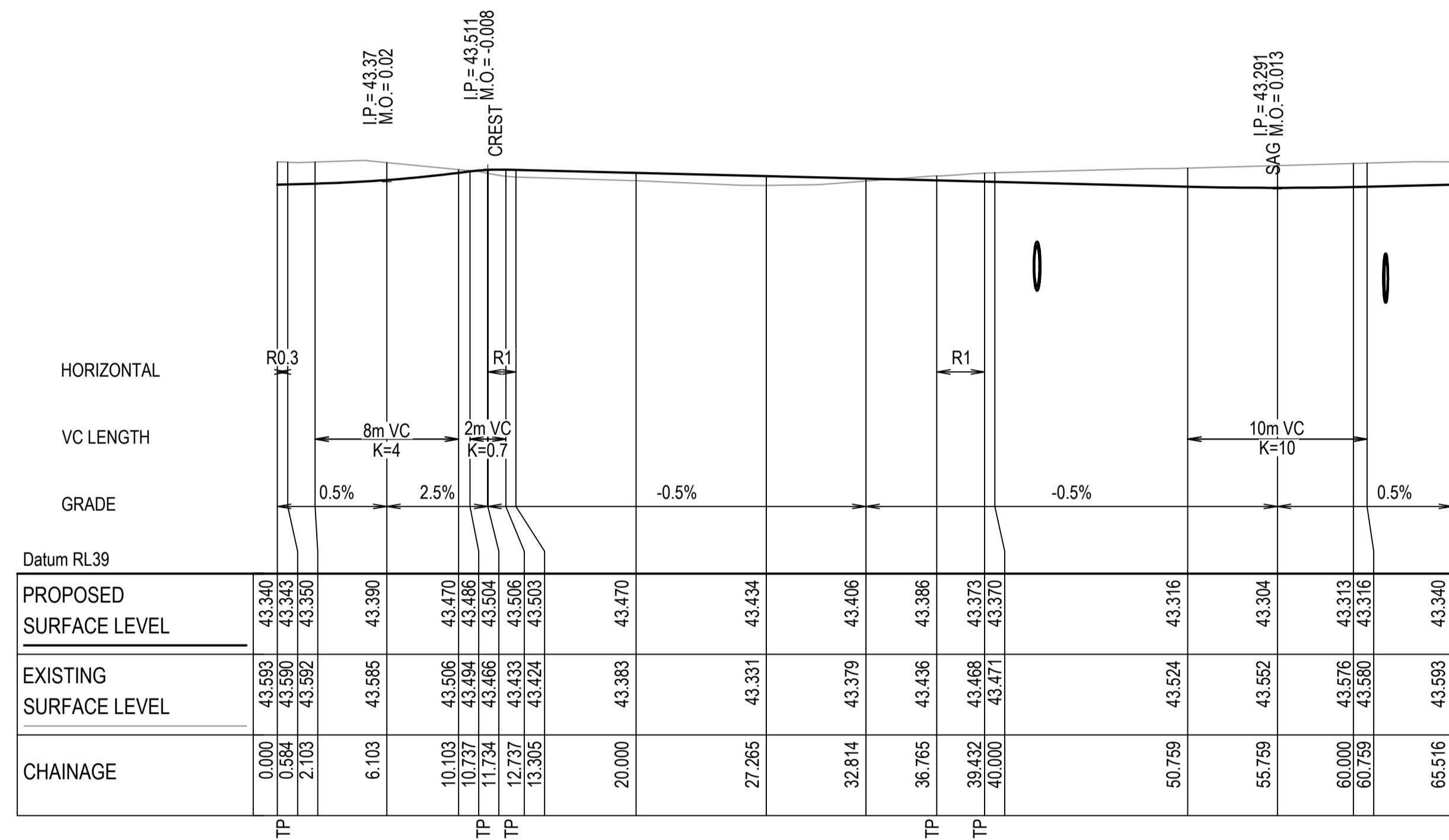
Civil Engineers and Project Managers

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

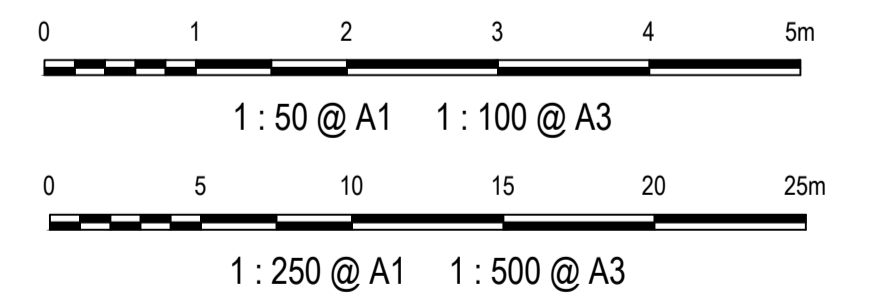
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2154

Issue
1



MS01 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**KERB
LONGITUDINAL SECTION
MK04**

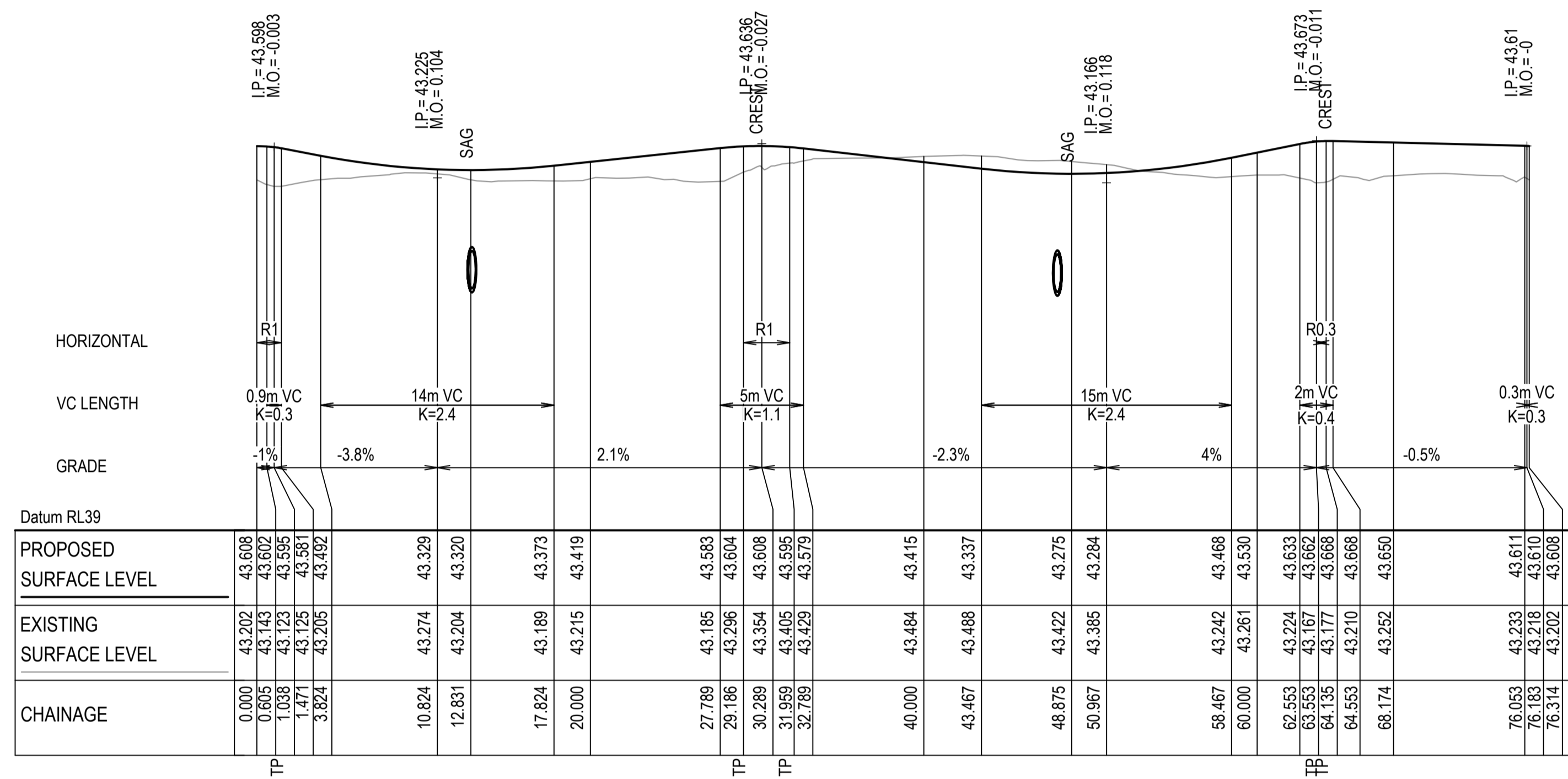
Civil Engineers and Project Managers

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

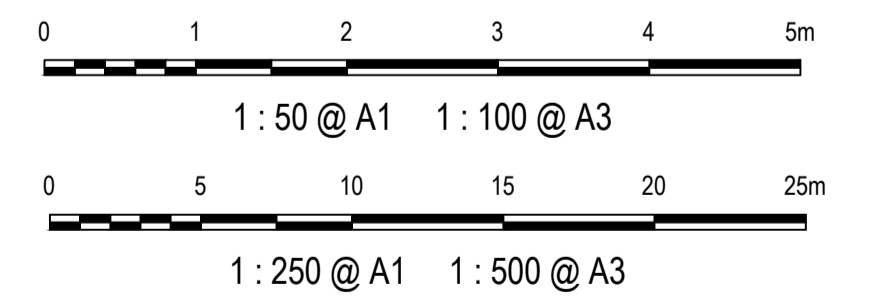
Status
**FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.
RL-2155

Issue
1



MS02 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
KERB LONGITUDINAL SECTION MS01

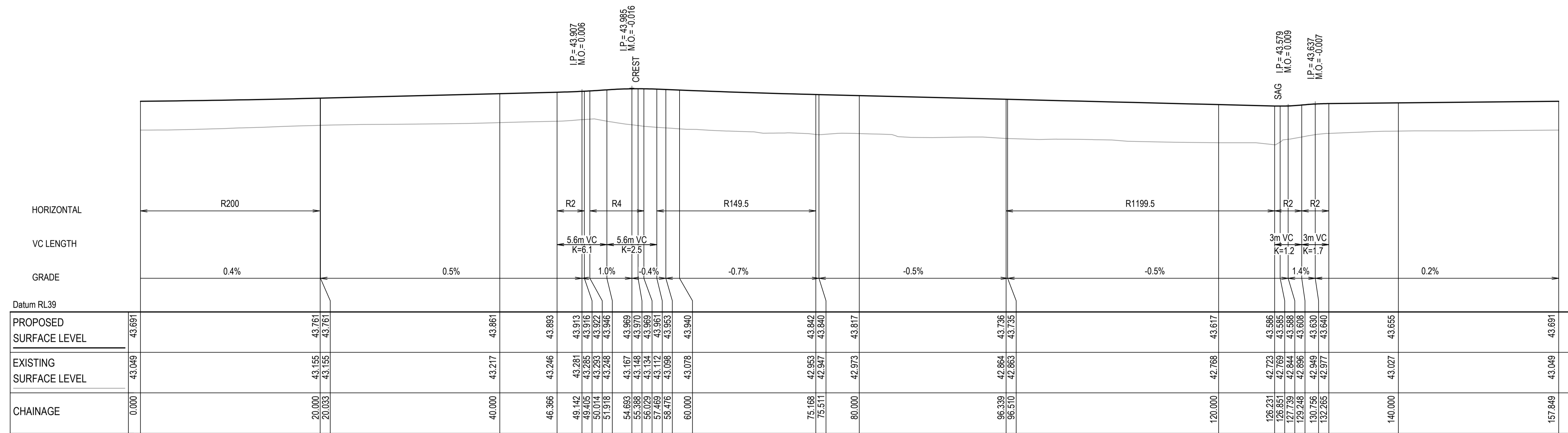
Civil Engineers and Project Managers

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

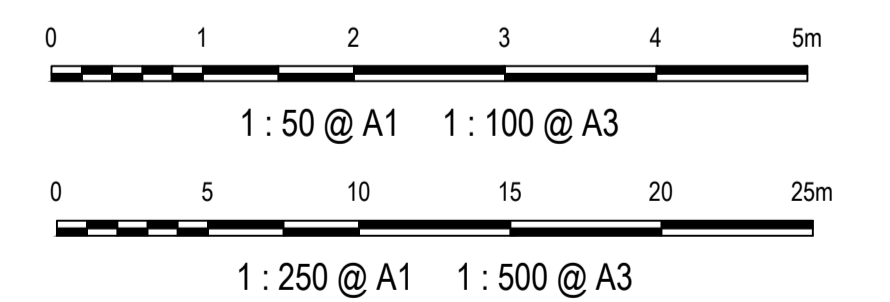
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2156

Issue
1



MS03 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
KERB LONGITUDINAL SECTION MS02

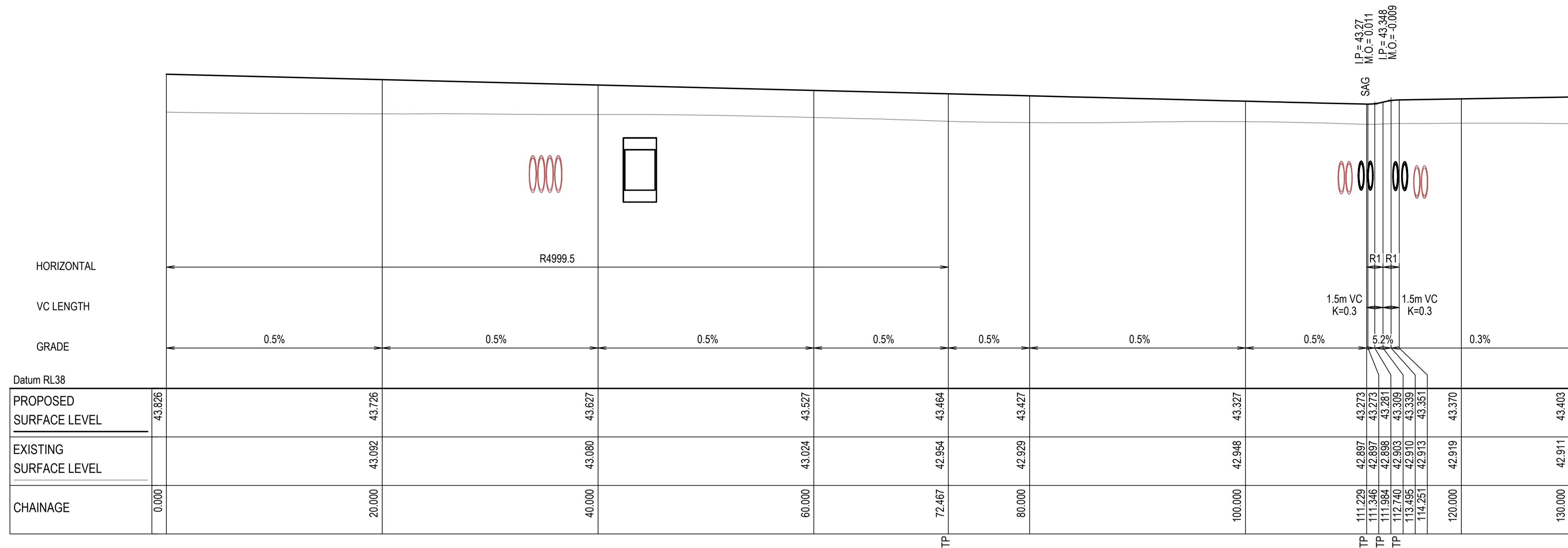
Civil Engineers and Project Managers

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

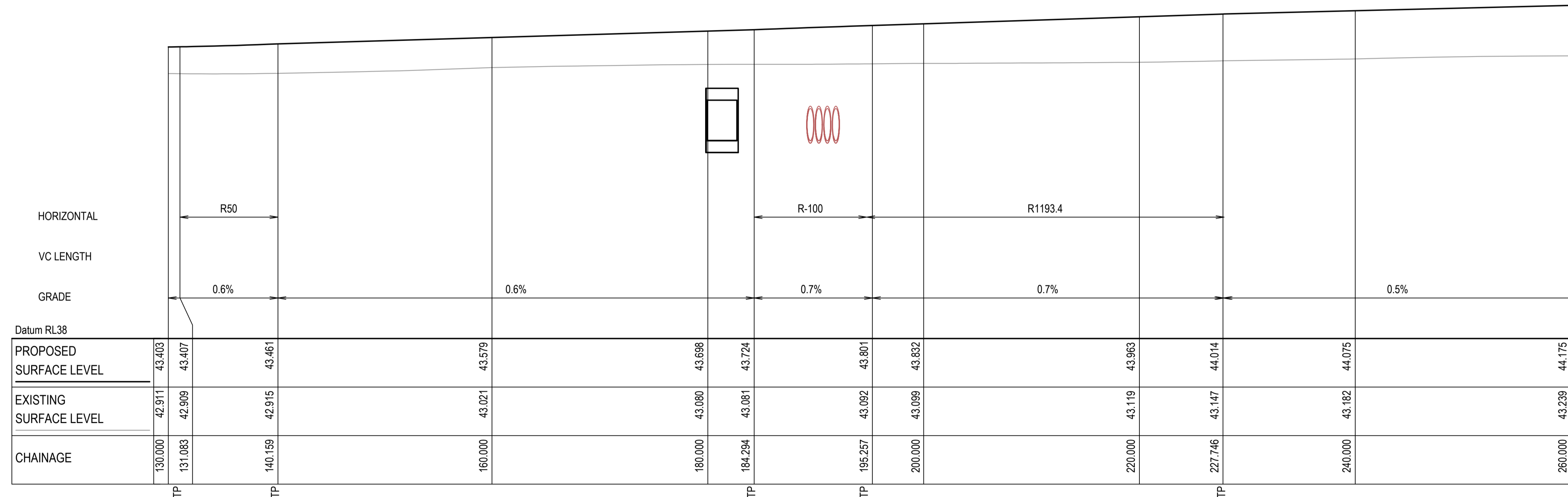
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RL-2157

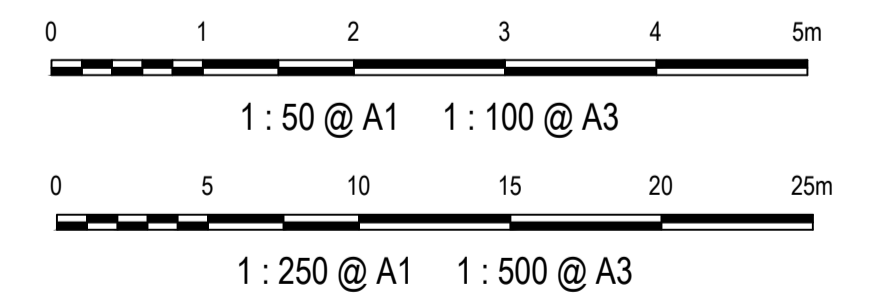
Issue
1



MS04 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MS04 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

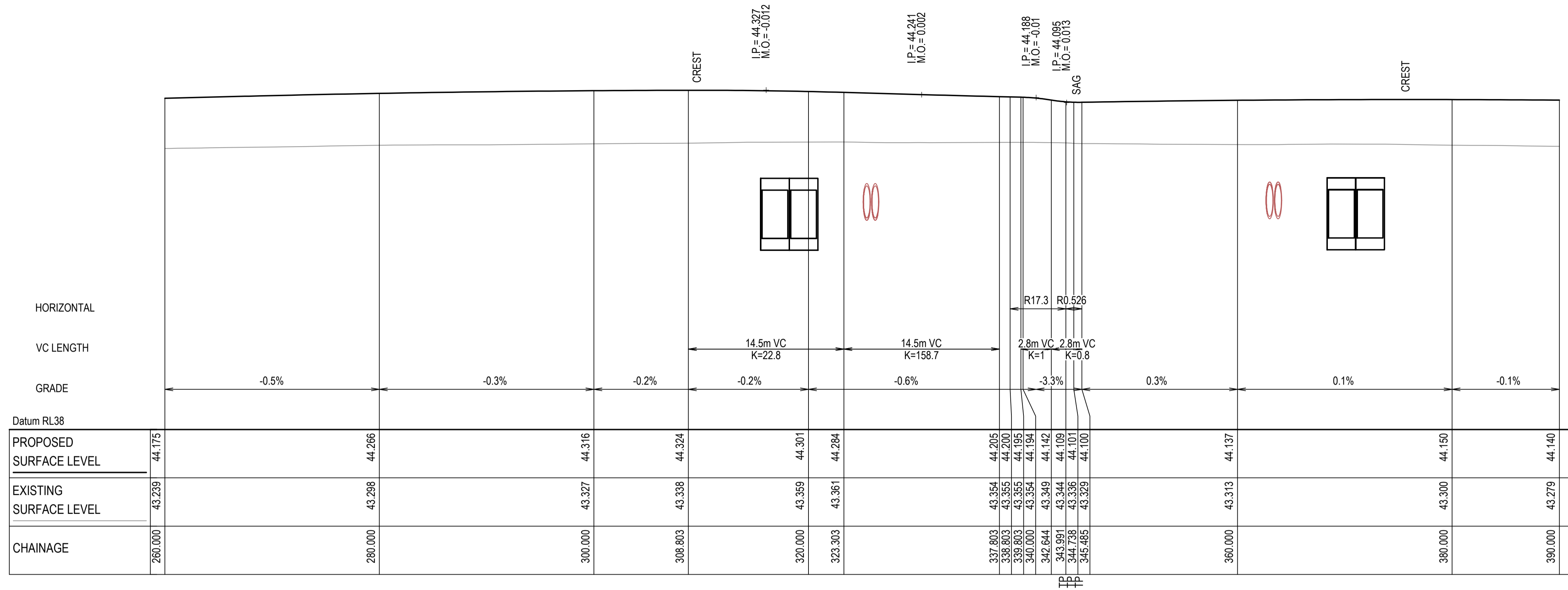
Client	
--------	--

Scales	1 : 50 (V) @ A1 1 : 250 (H) @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

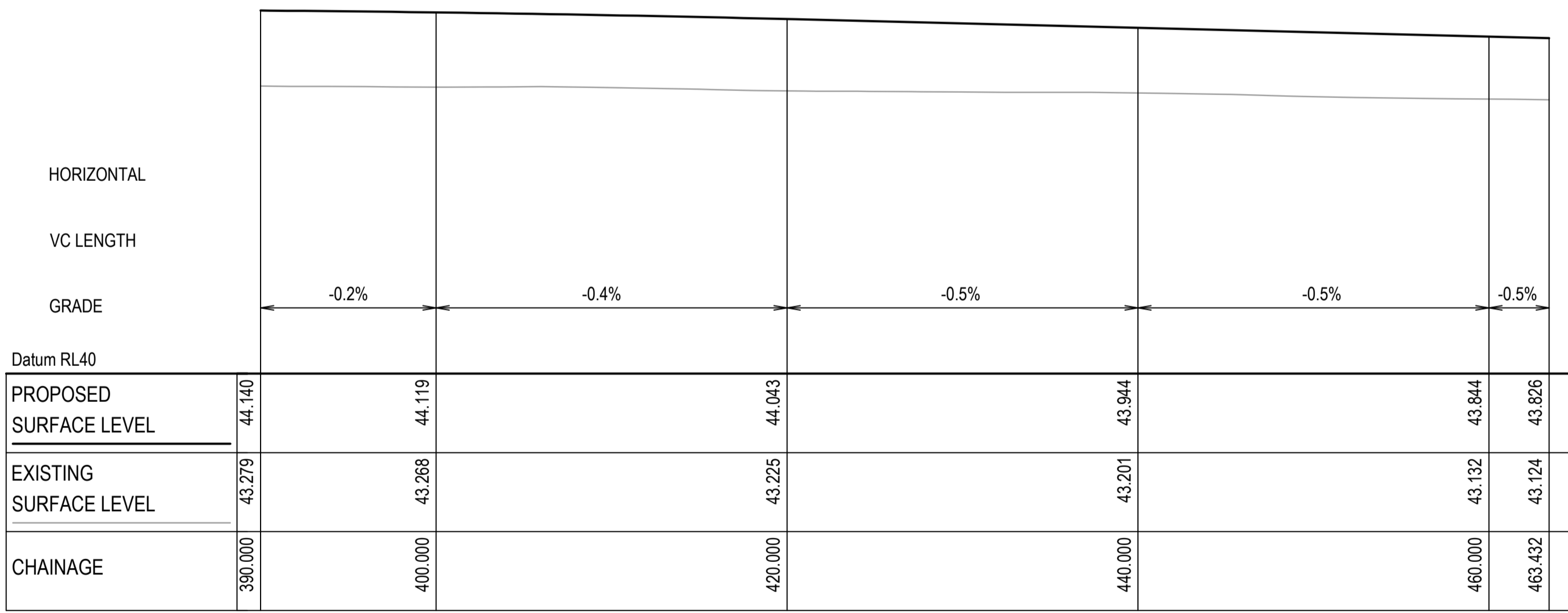
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	KERB LONGITUDINAL SECTION MS03

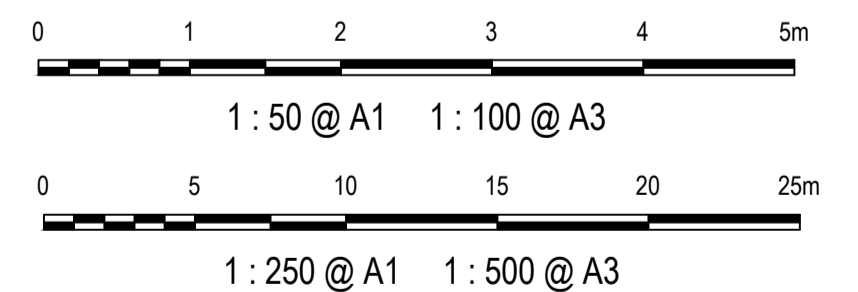
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RL-2158
Issue	1



MS04 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



MS04 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 50 (V) @ A1
1 : 250 (H) @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No. DS2000/000000

Drawn GB

Designed GB

Checked AL

Approved

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title KERB LONGITUDINAL SECTION MS04 SHEET 1

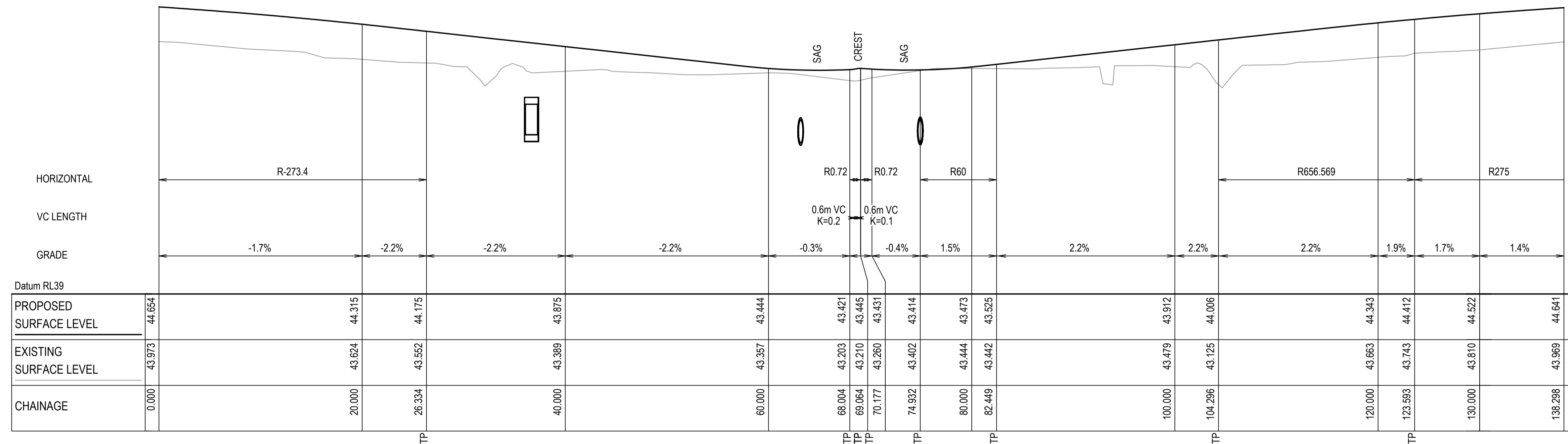
Civil Engineers and Project Managers

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

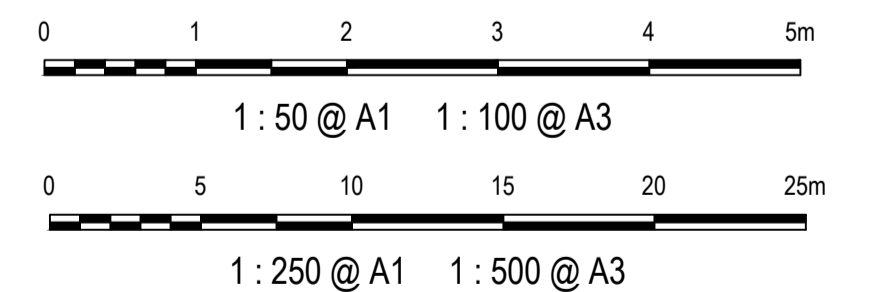
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. RL-2159

Issue 1



MS05 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

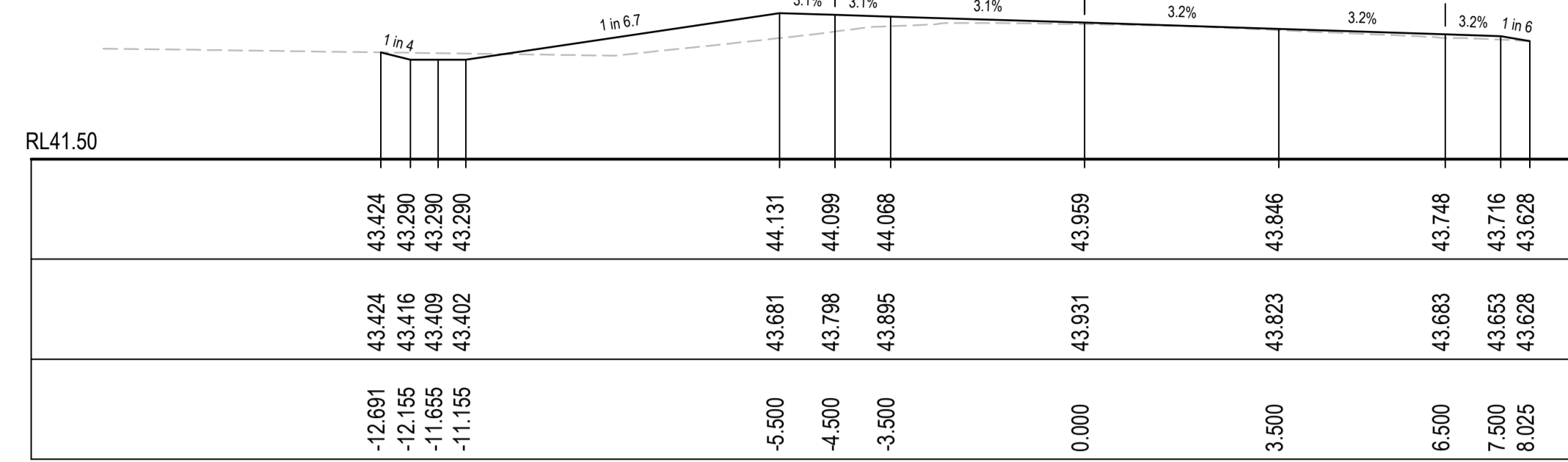
Client	
--------	--

Scales	1 : 50 (V) @ A1 1 : 250 (H) @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

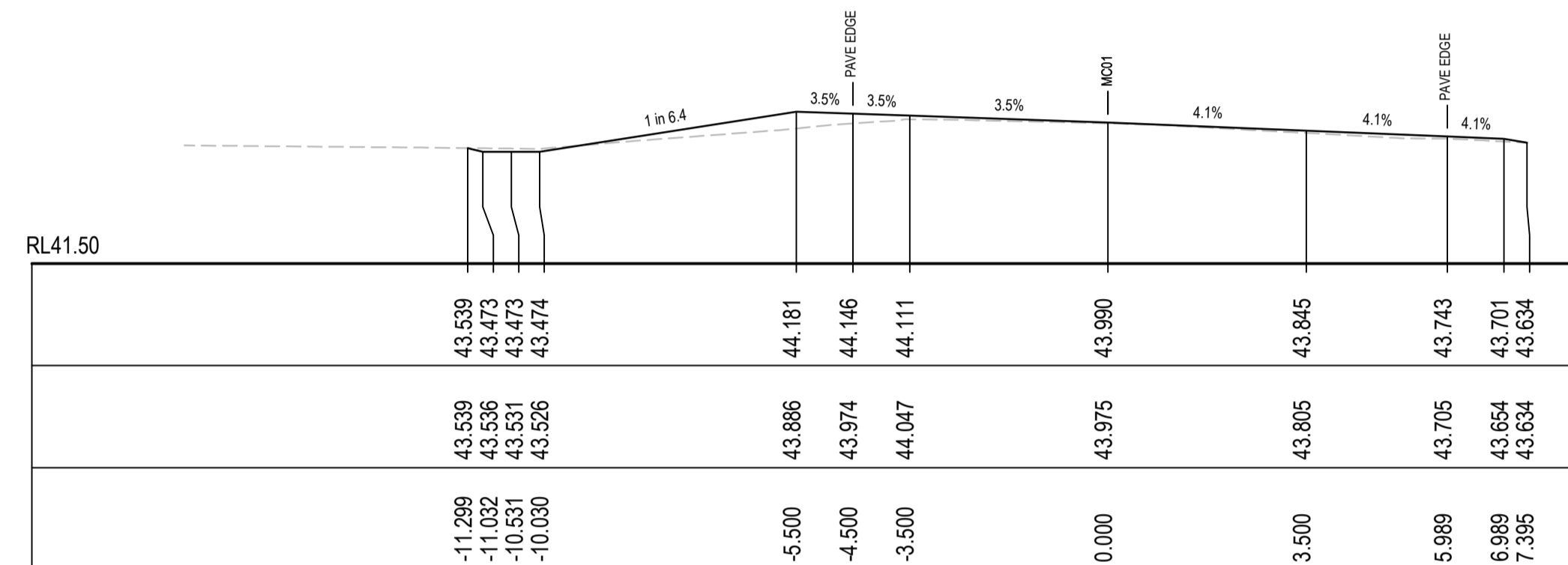
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	KERB LONGITUDINAL SECTION MS04 SHEET 2

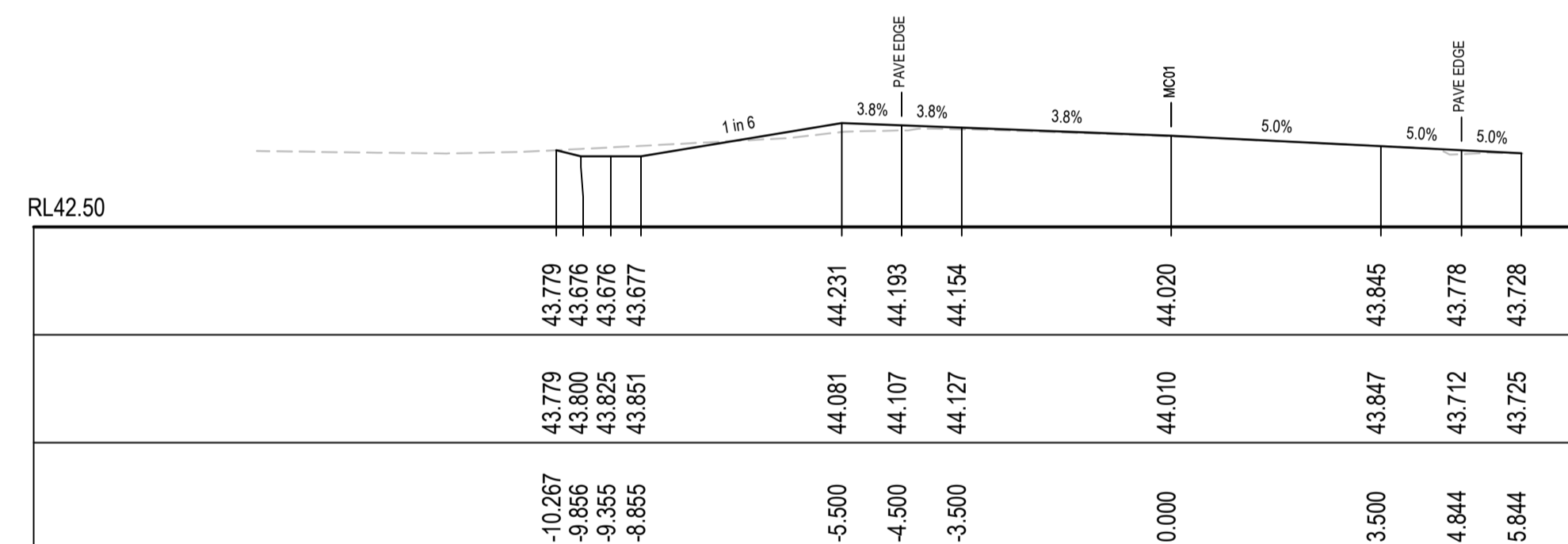
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RL-2160
Issue	1



CH 80



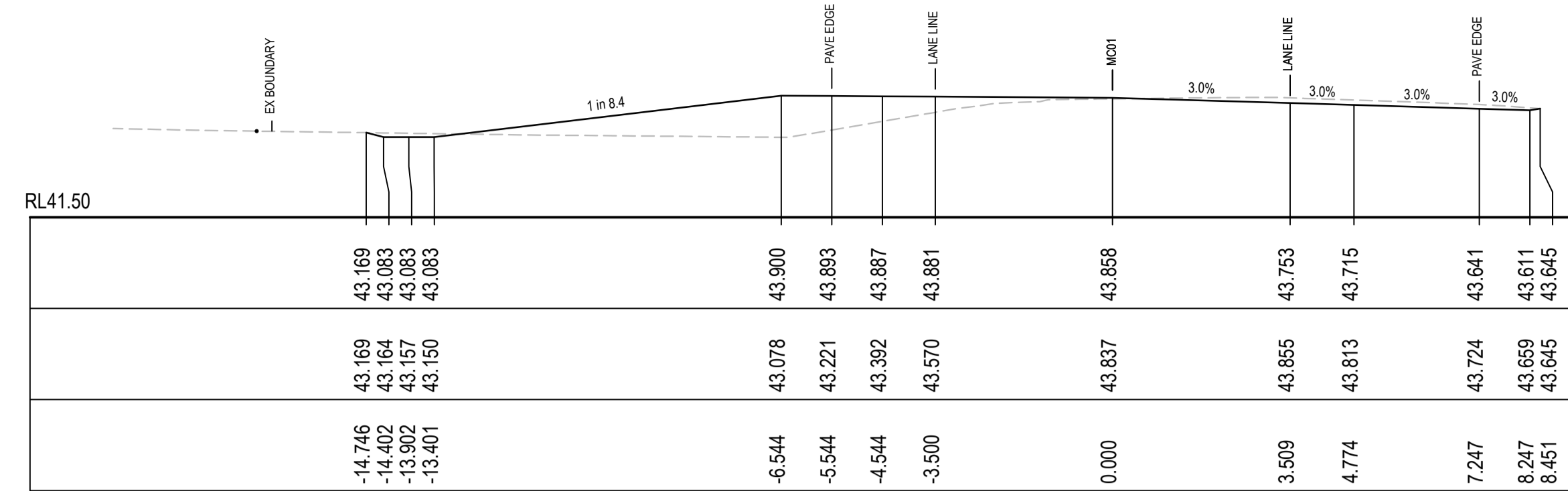
CH 60



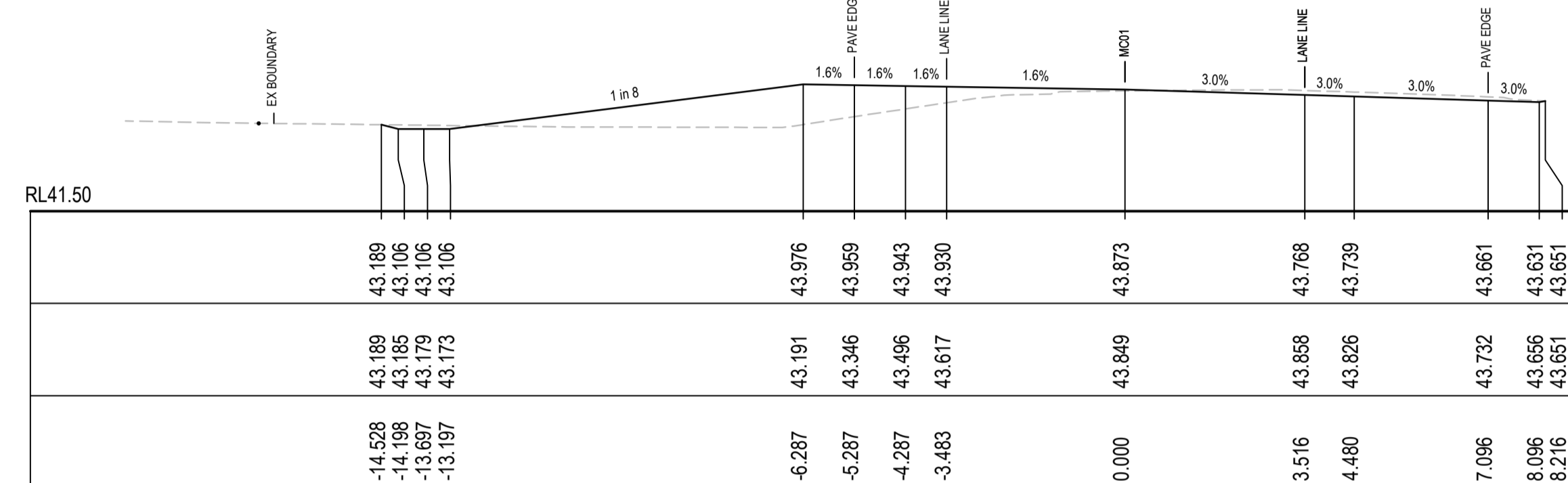
CH 40

PROPOSED SURFACE LEVEL	44.024	44.243	44.204	44.164	44.027	43.845	43.793	43.741	43.707
EXISTING SURFACE LEVEL	44.024	44.107	44.138	44.154	44.022	43.845	43.786	43.702	43.707
CENTRELINE OFFSET	-6.811	-5.500	-4.500	-3.500	0.000	3.500	4.500	5.500	5.703

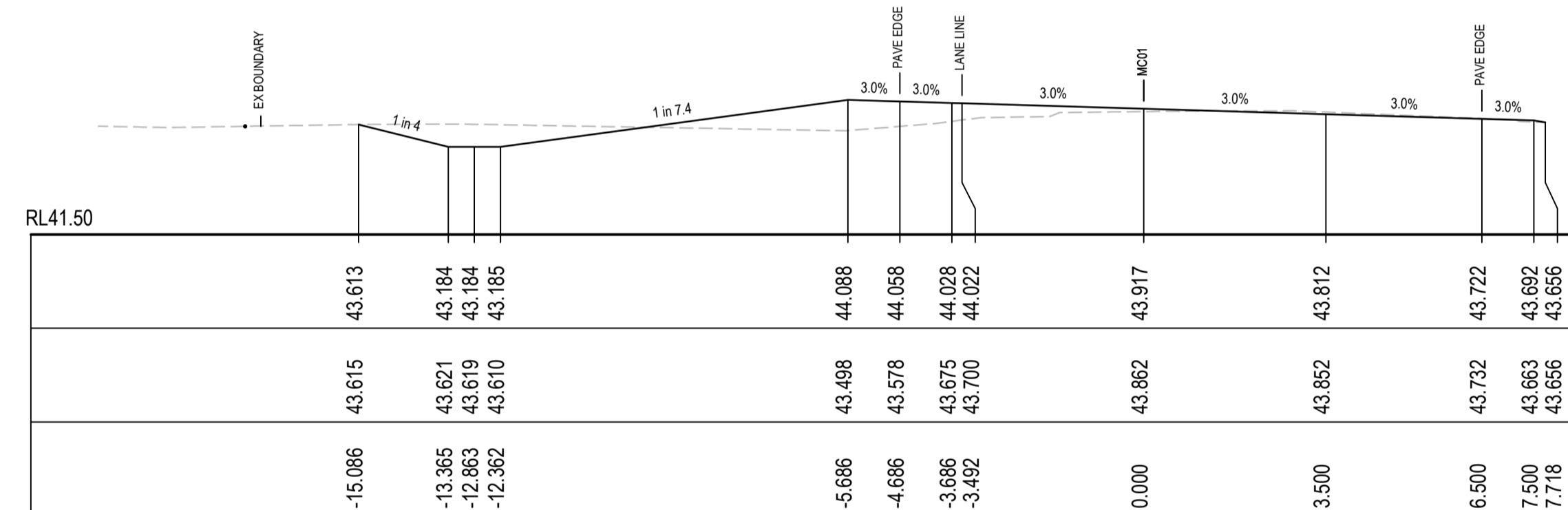
CH 35.401



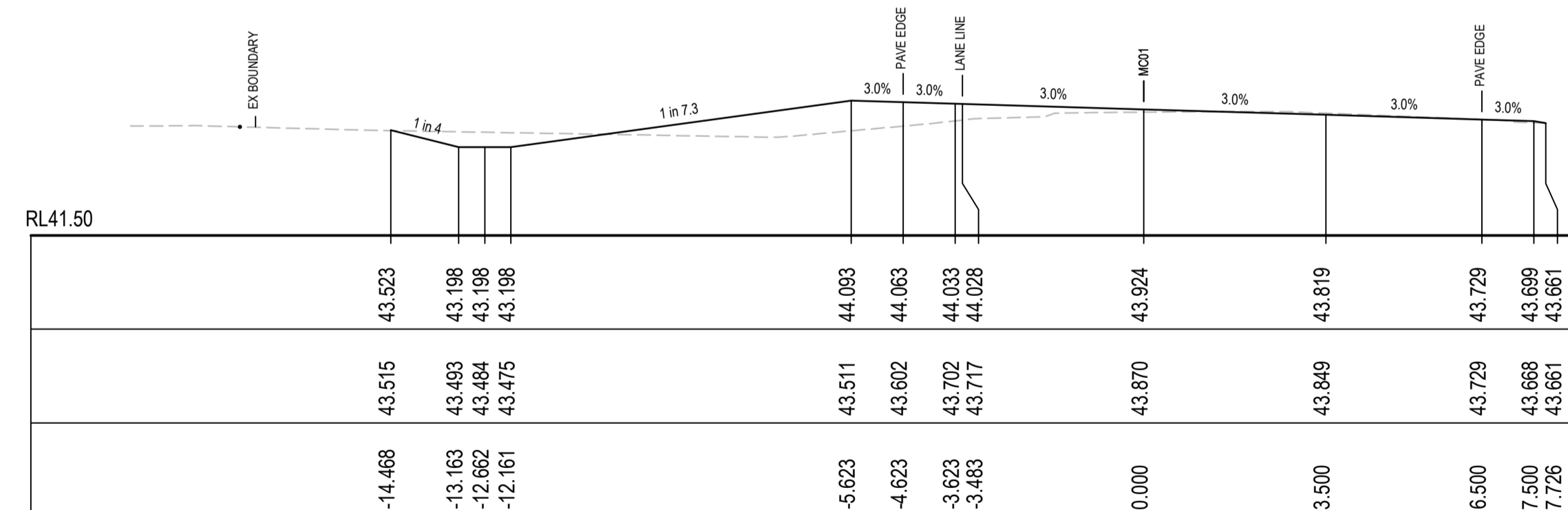
CH 125.012



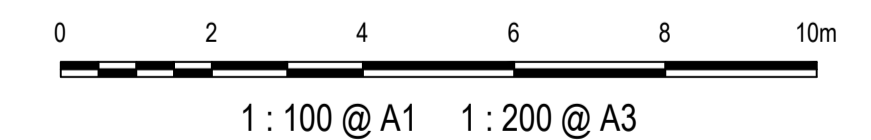
CH 120



CH 102.995



CH 100



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC01 SHEET 1

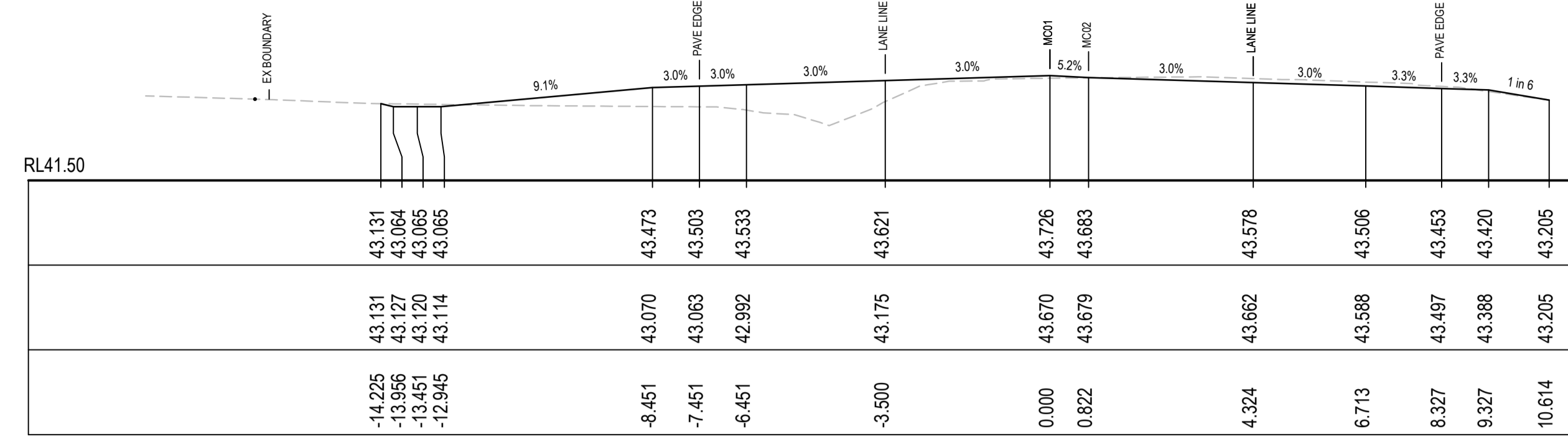
Civil Engineers and Project Managers

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

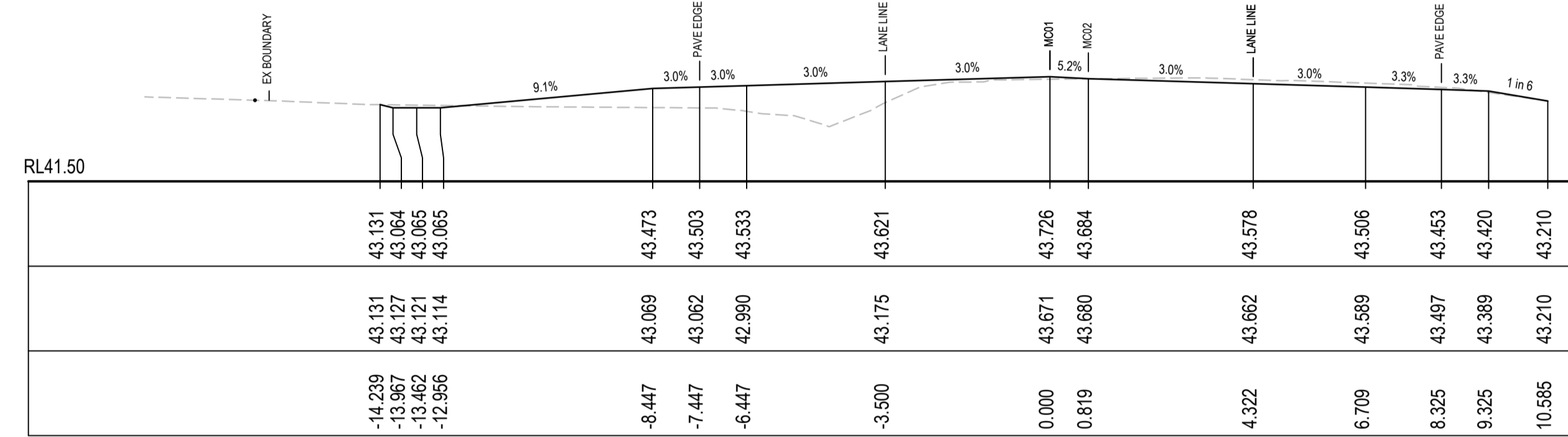
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2201

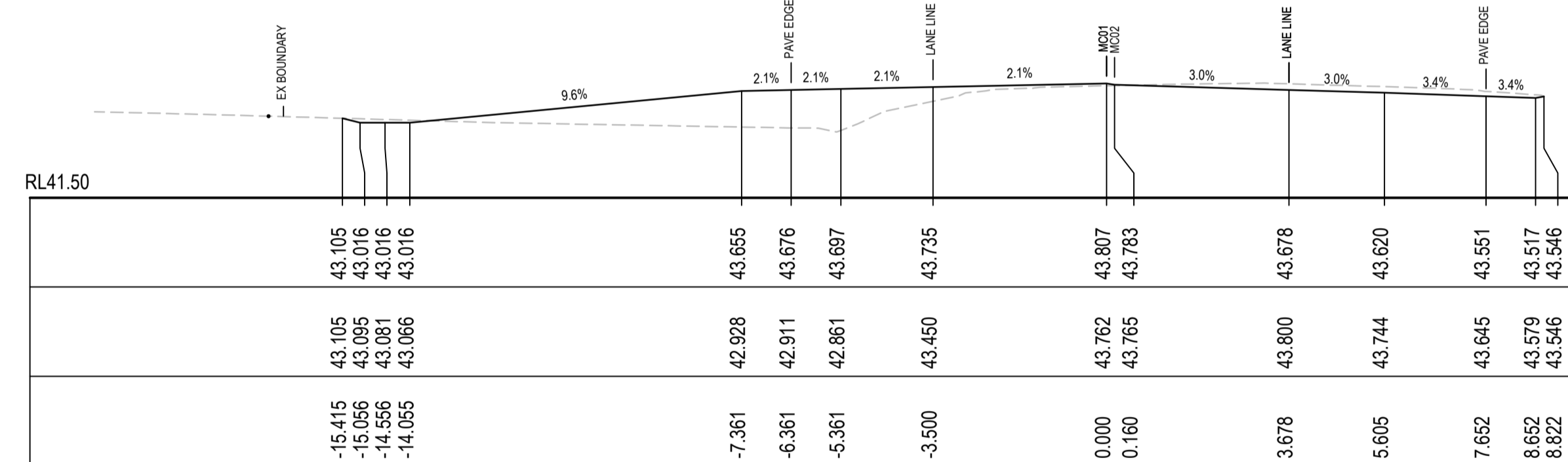
Issue
1



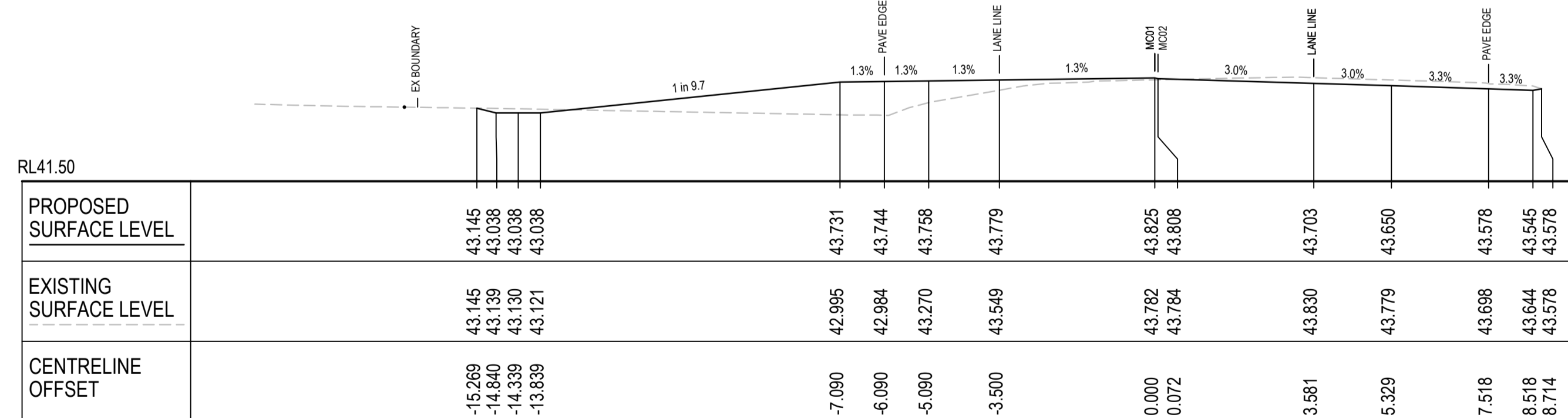
CH 160



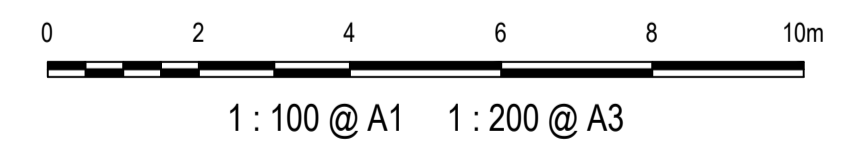
CH 159.927



CH 140



CH 135.033



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TFNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC01 SHEET 2

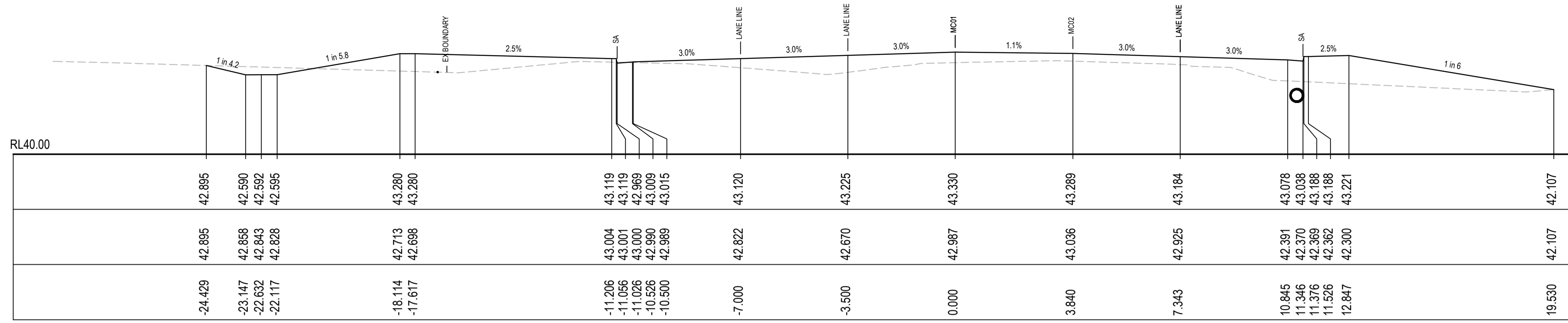
Civil Engineers and Project Managers

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

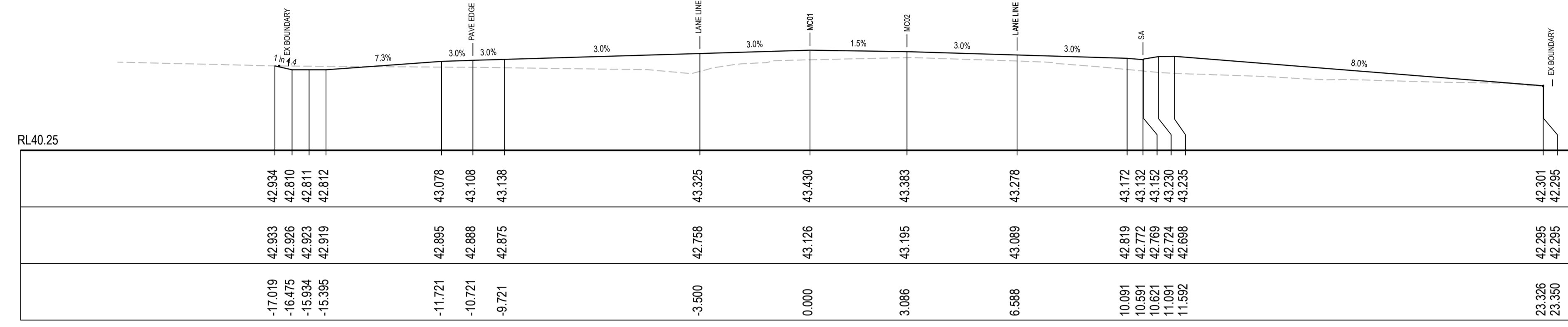
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2202

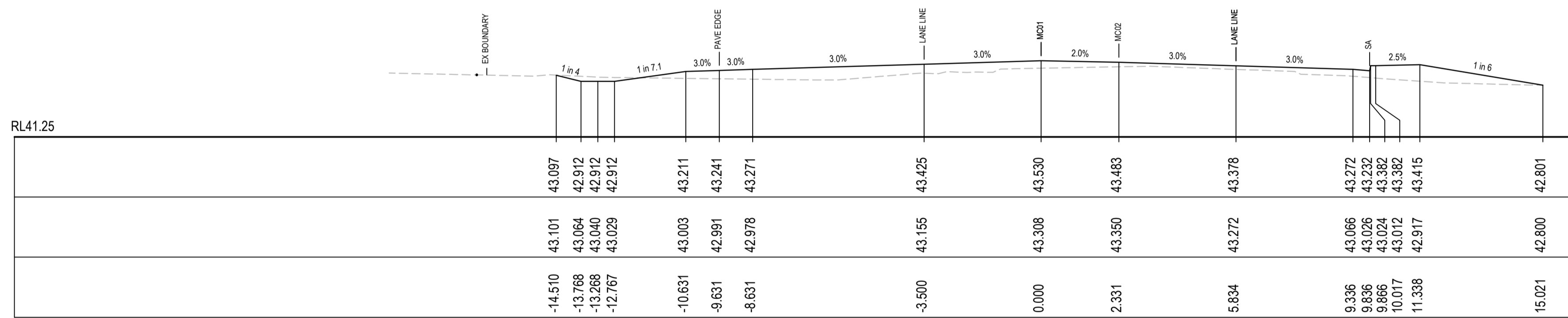
Issue
1



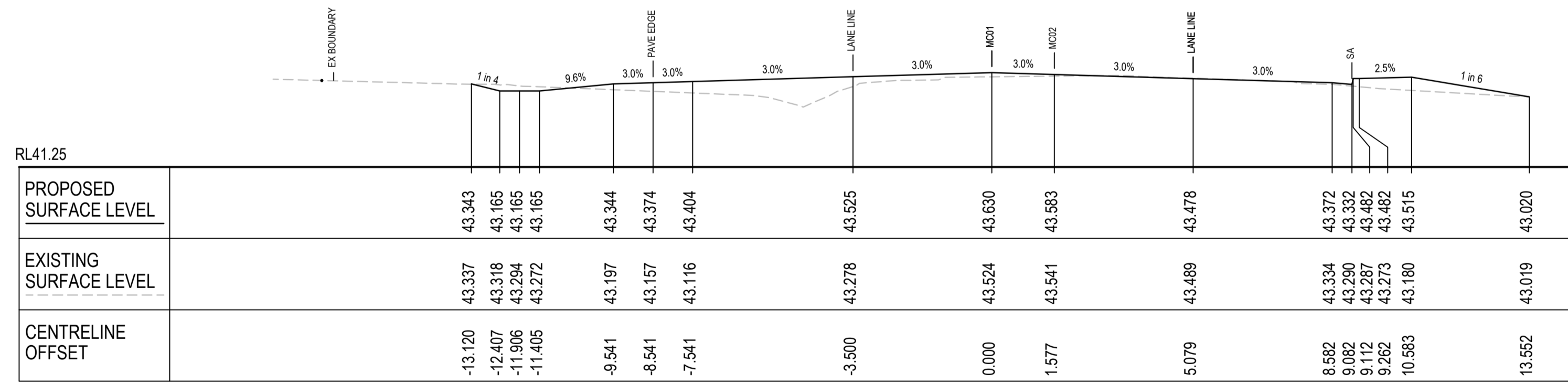
CH 240



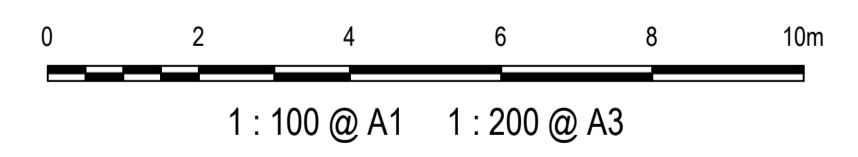
CH 220



CH 200



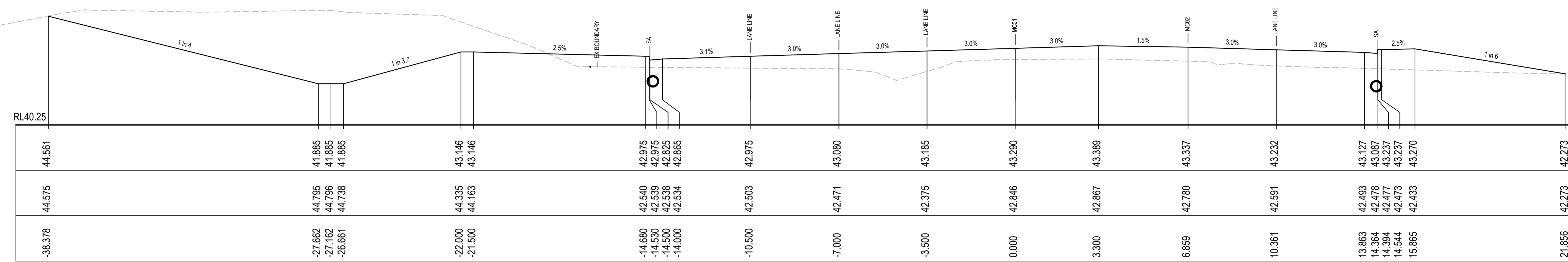
CH 180



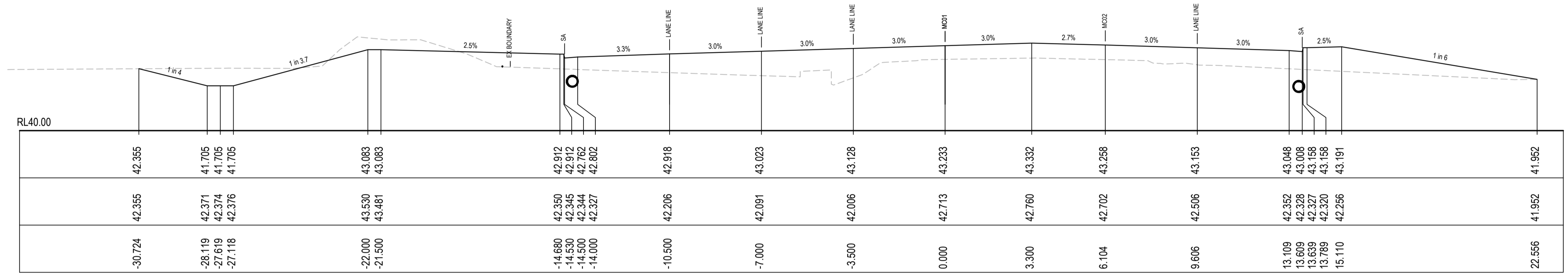
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

PROPOSED SURFACE LEVEL	EXISTING SURFACE LEVEL	CENTRELINE OFFSET
43.343	43.337	-13.120
43.165	43.318	-12.407
43.165	43.294	-11.906
43.344	43.272	-11.405
43.374	43.197	-9.541
43.404	43.157	-8.541
43.525	43.116	-7.541
43.630	43.278	-3.500
43.583	43.524	0.000
43.478	43.541	1.577
43.372	43.489	5.079
43.332	43.334	8.582
43.482	43.290	9.082
43.482	43.287	9.112
43.515	43.273	9.262
43.020	43.180	10.583

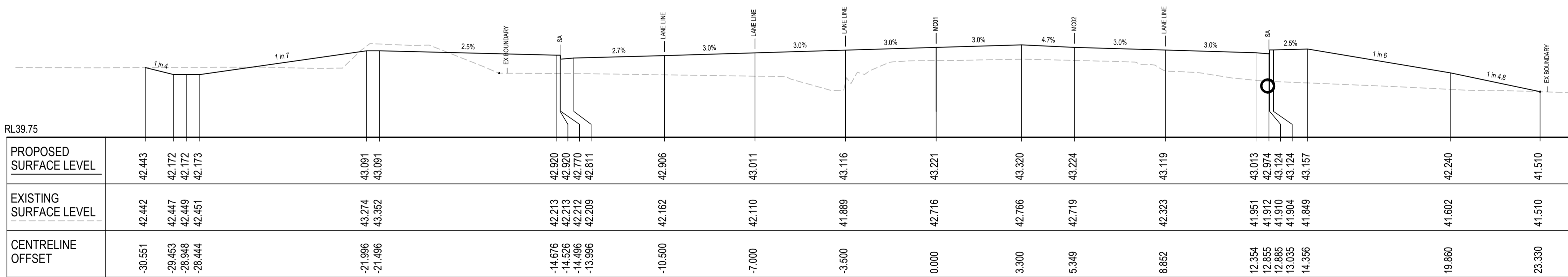
	Client		Scales 1 : 100 @ A1	Drawn GB Designed GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
	Grid GDA2020		Checked AL	Height Datum AHD		
TNSW REGISTRATION No. DS2000/000000			Title ROAD CROSS SECTIONS MC01 SHEET 3		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	Issue 1
Project - Drawing No. RC-2203						Issue 1



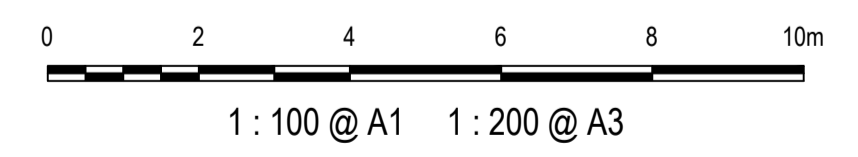
CH 320



CH 300



CH 280



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client	FRASERS PROPERTY	ESR
	Stockland	FIFECAPITAL

Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
NSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

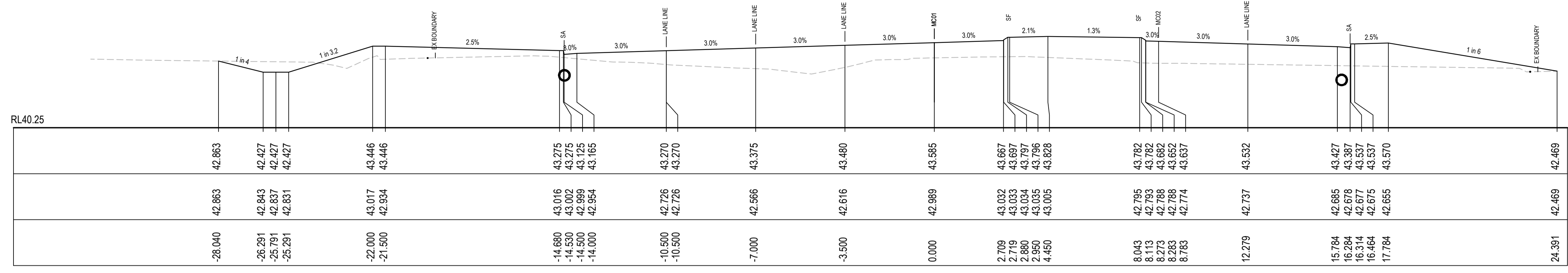
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD CROSS SECTIONS MC01 SHEET 4

Civil Engineers and Project Managers

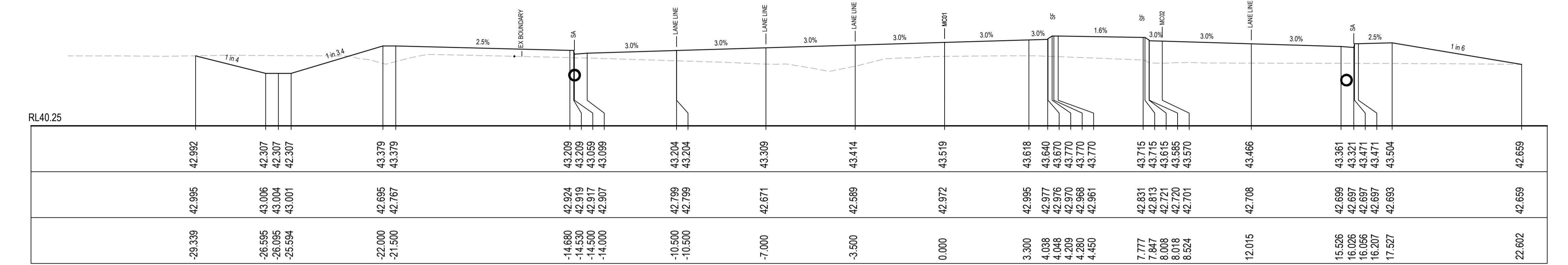
at&

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

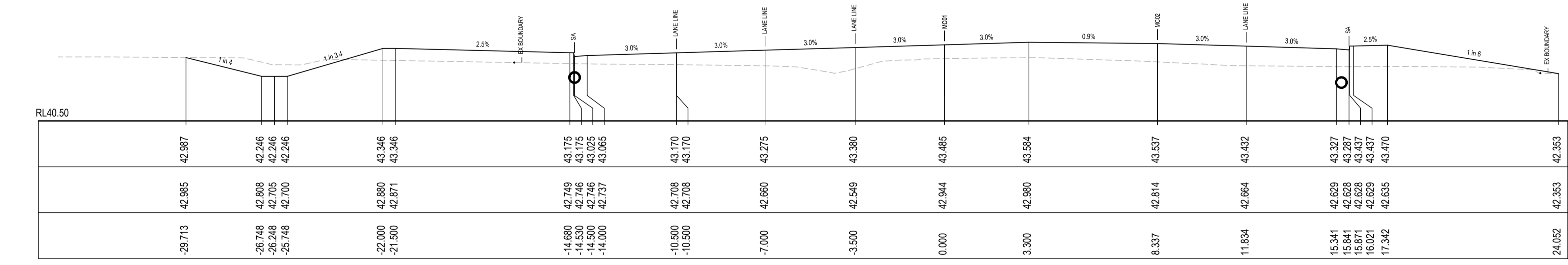
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	RC-2204	Issue
		1



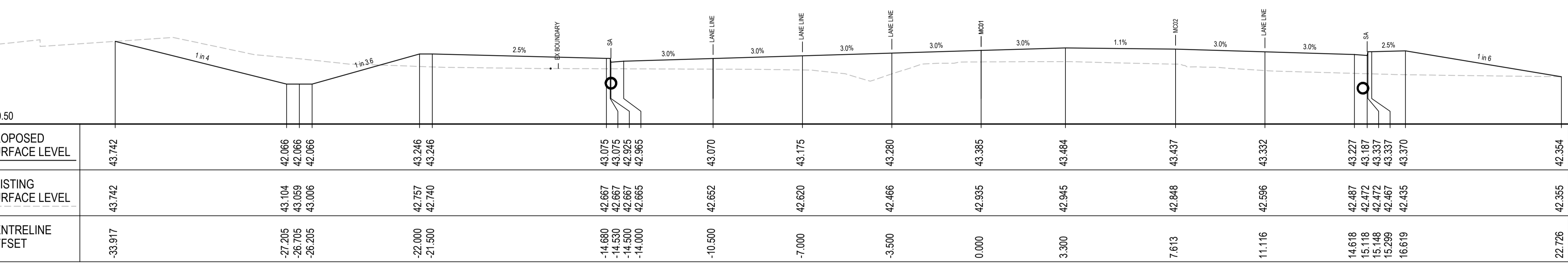
CH 380



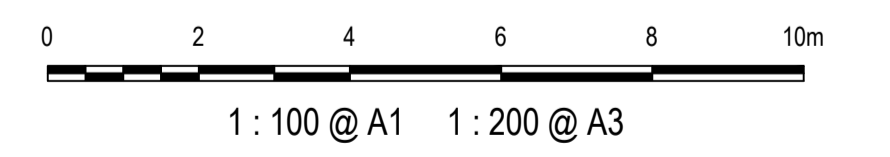
CH 366.706



CH 360

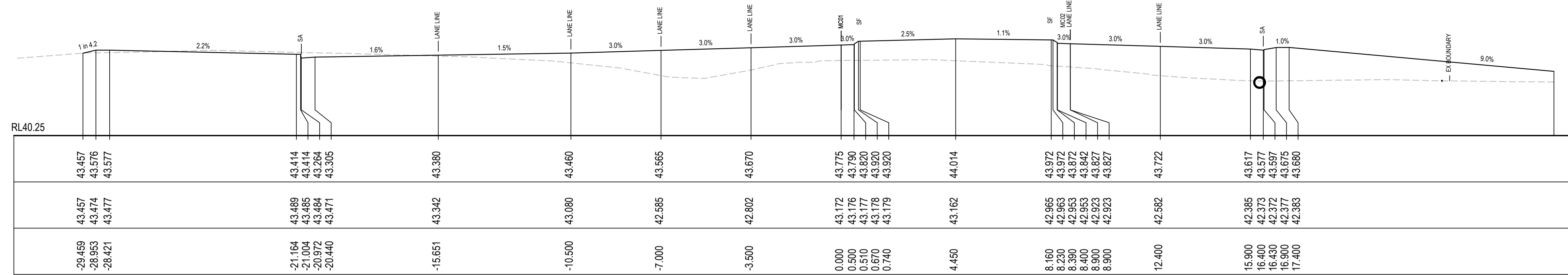


CH 340

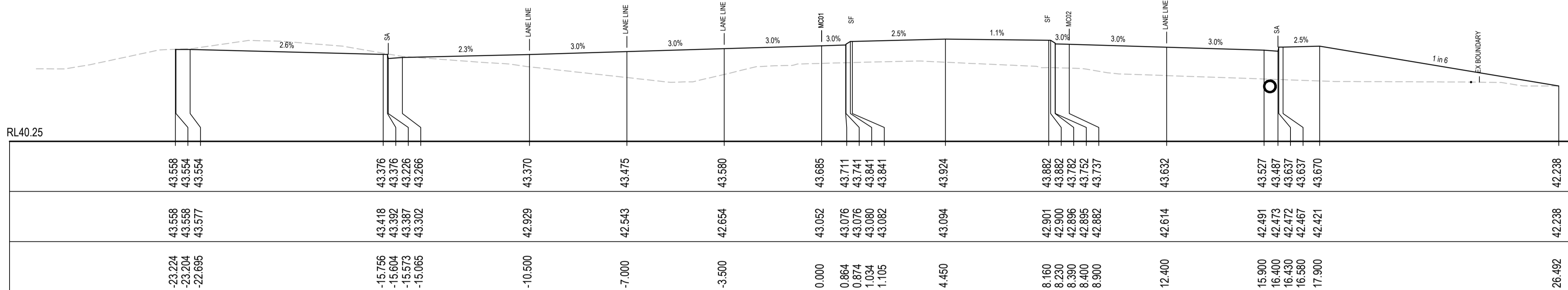


1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

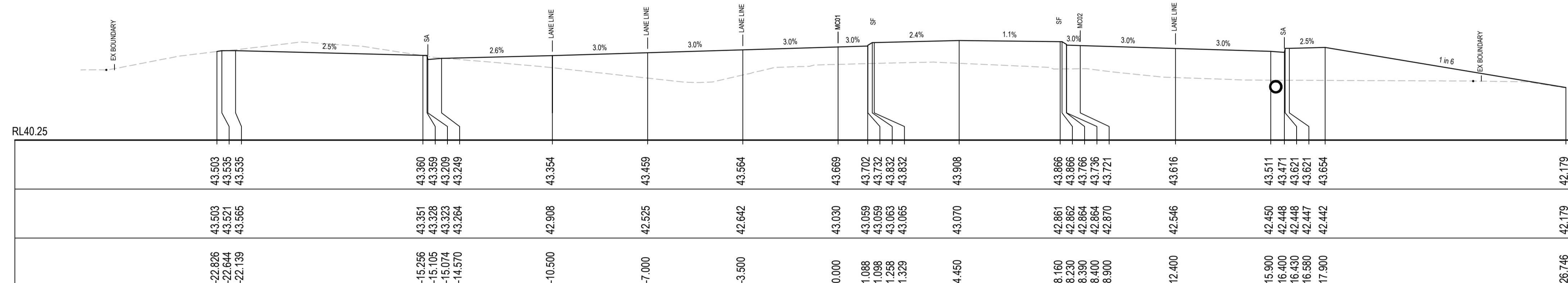
Client	FRASERS PROPERTY, ESR, Stockland, FIFECAPITAL
Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD CROSS SECTIONS MC01 SHEET 5
Civil Engineers and Project Managers	at&I
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RC-2205
Issue	1



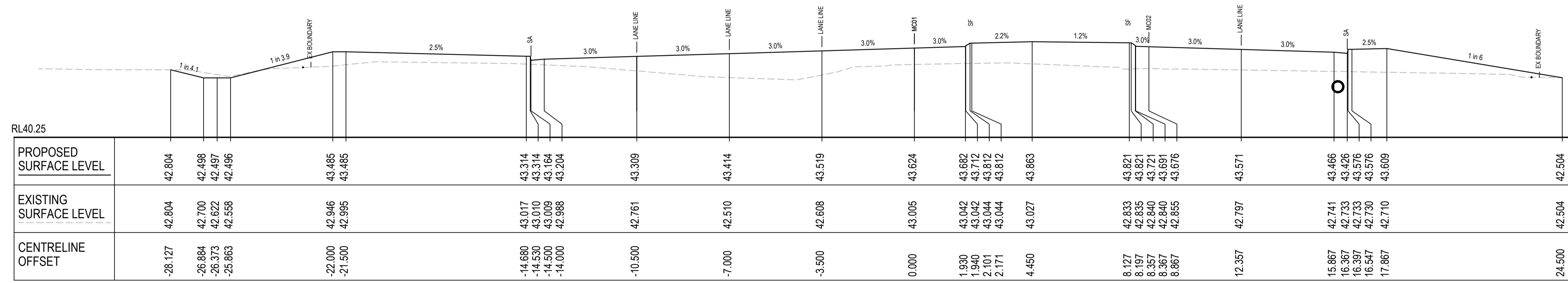
CH 417.915



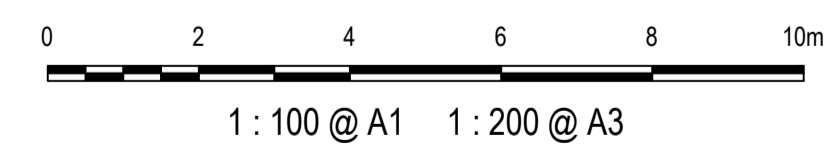
CH 400



CH 396.739



CH 387.79



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC01 SHEET 6

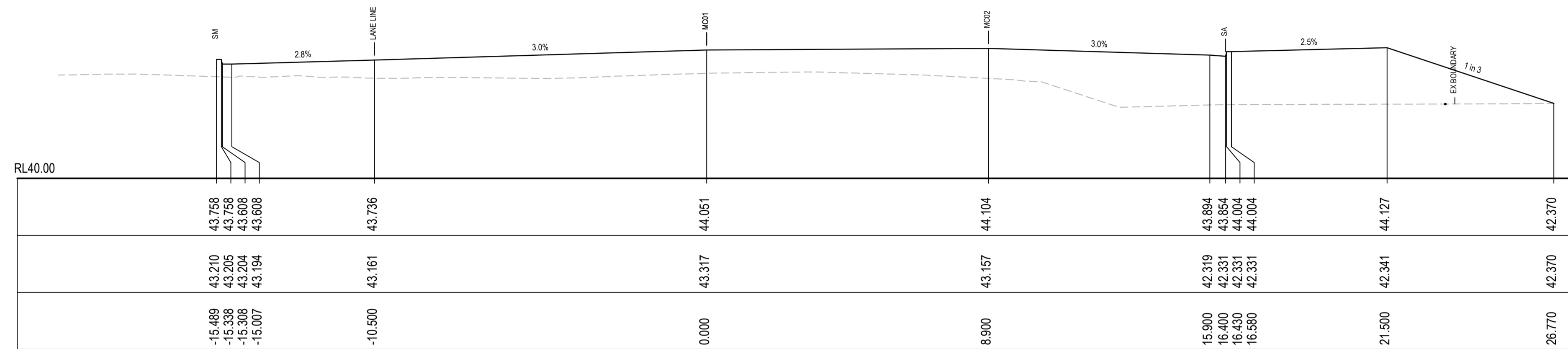
Civil Engineers and Project Managers

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

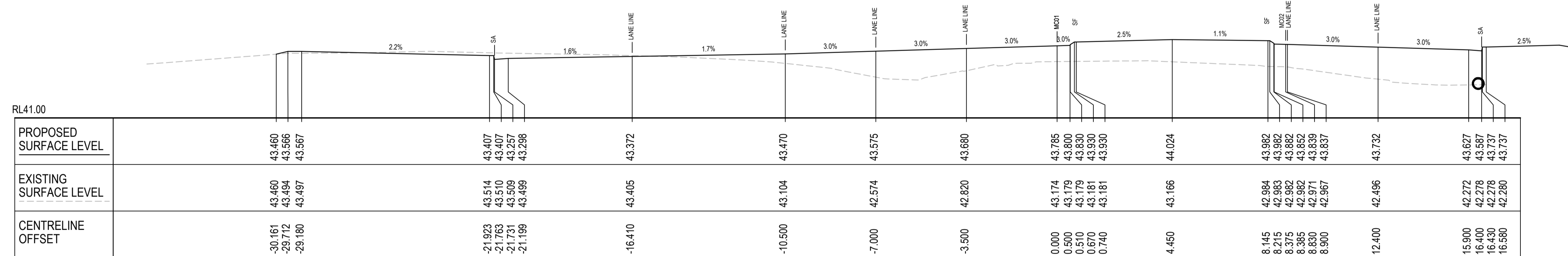
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2206

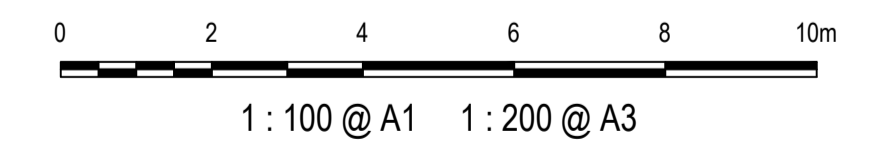
Issue
1



CH 473.579



CH 420



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS
MC01
SHEET 7

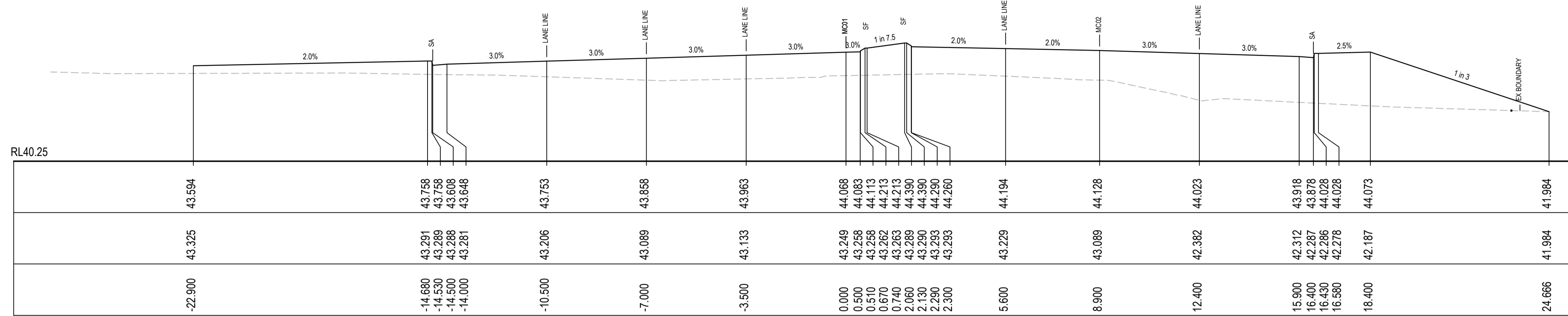
Civil Engineers and Project Managers

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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

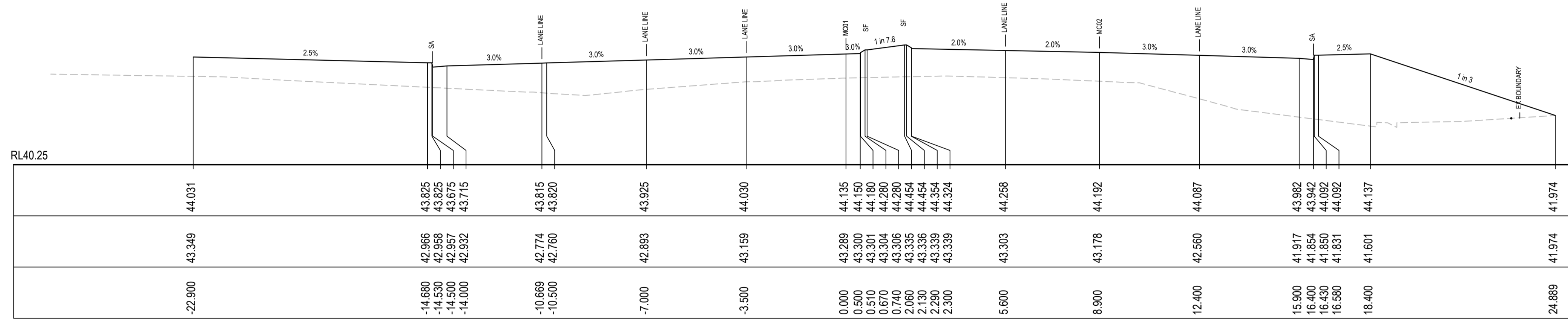
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2207

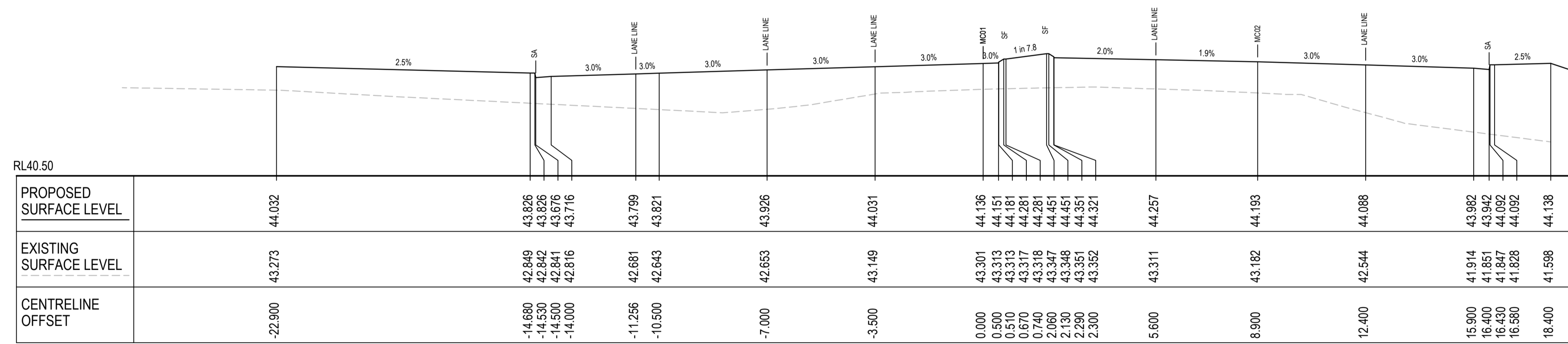
Issue
1



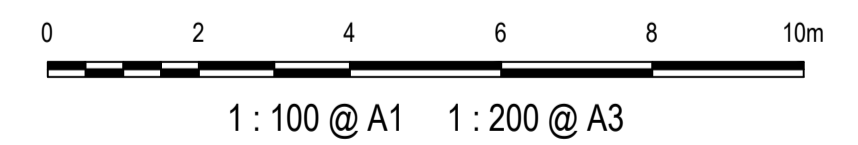
CH 547.735



CH 516.841



CH 512.687



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC01 SHEET 8

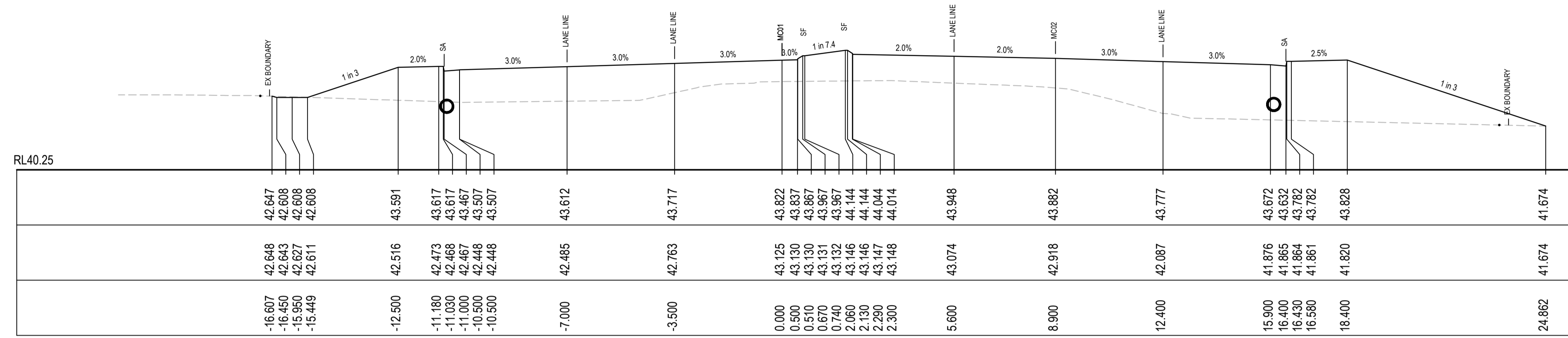
Civil Engineers and Project Managers

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

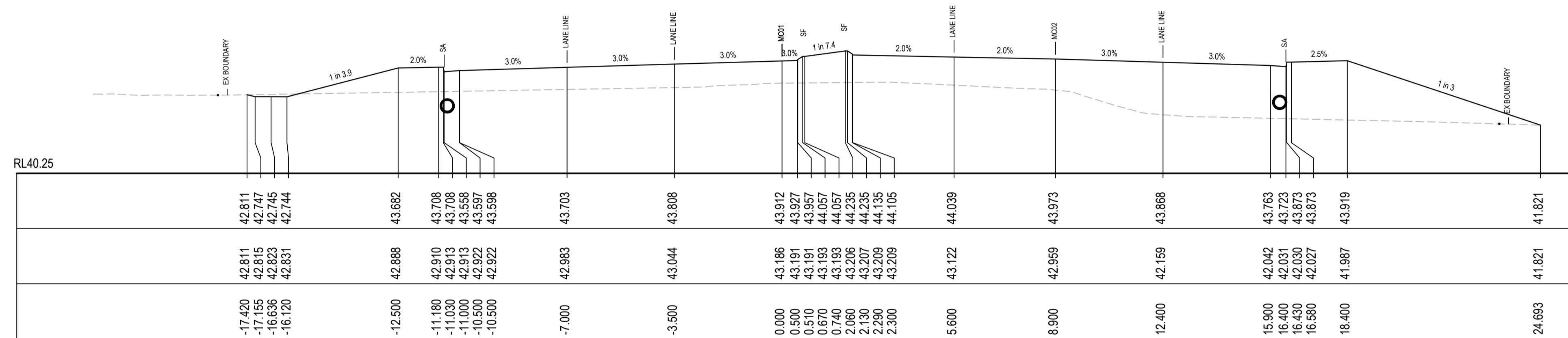
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2208

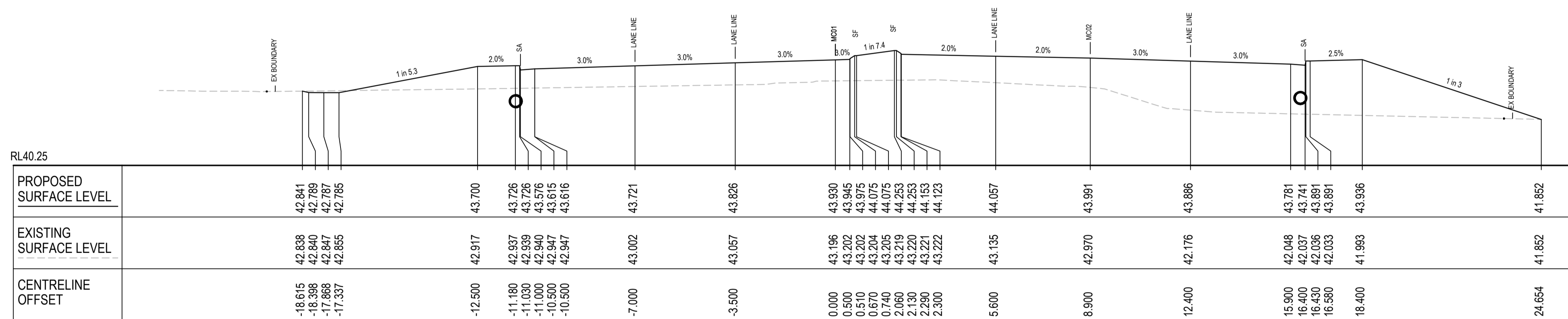
Issue
1



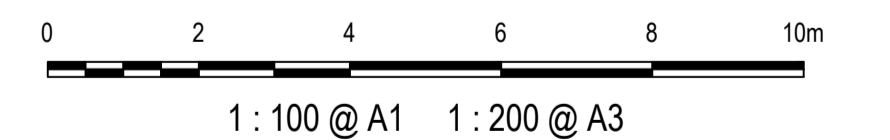
CH 598.179



CH 580



CH 576.42



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS
MC01
SHEET 9

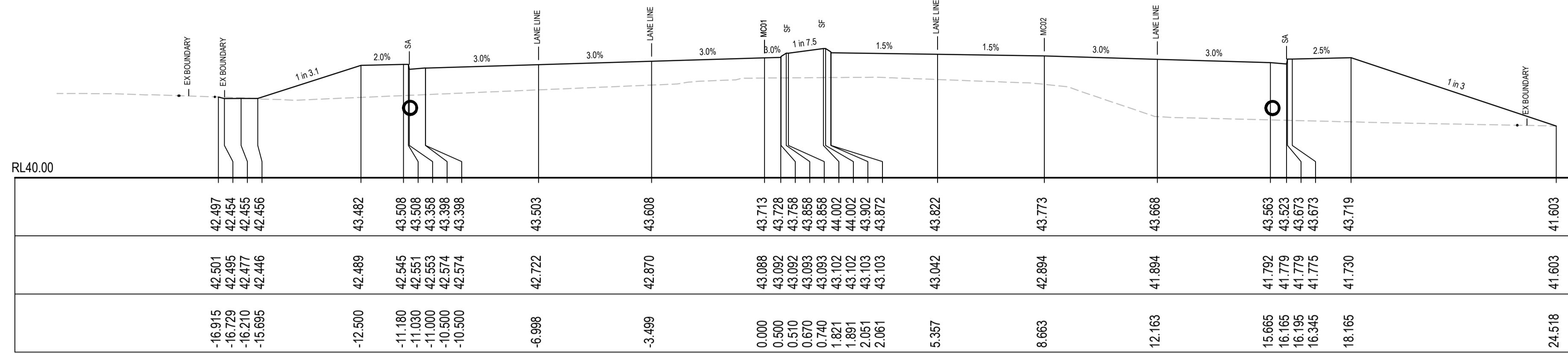
Civil Engineers and Project Managers

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

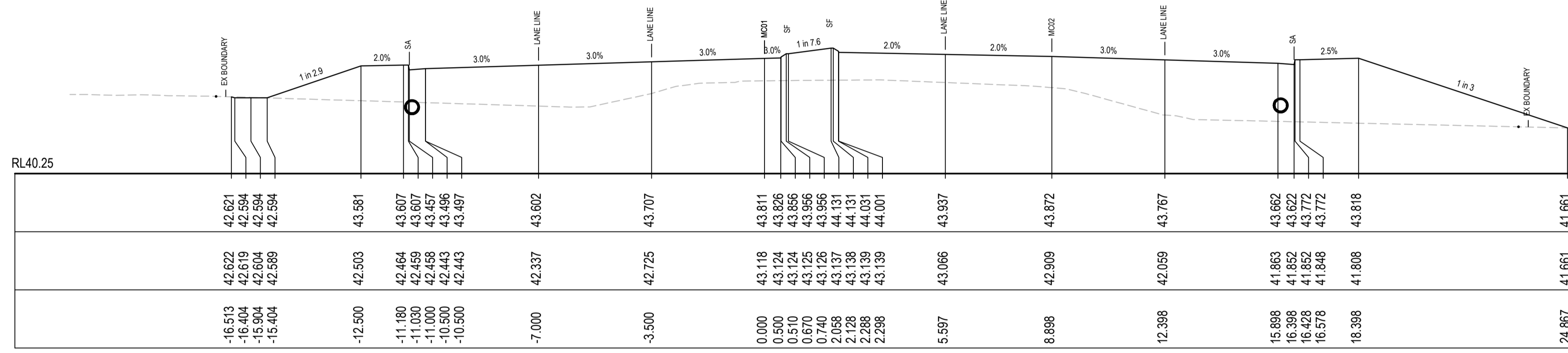
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2209

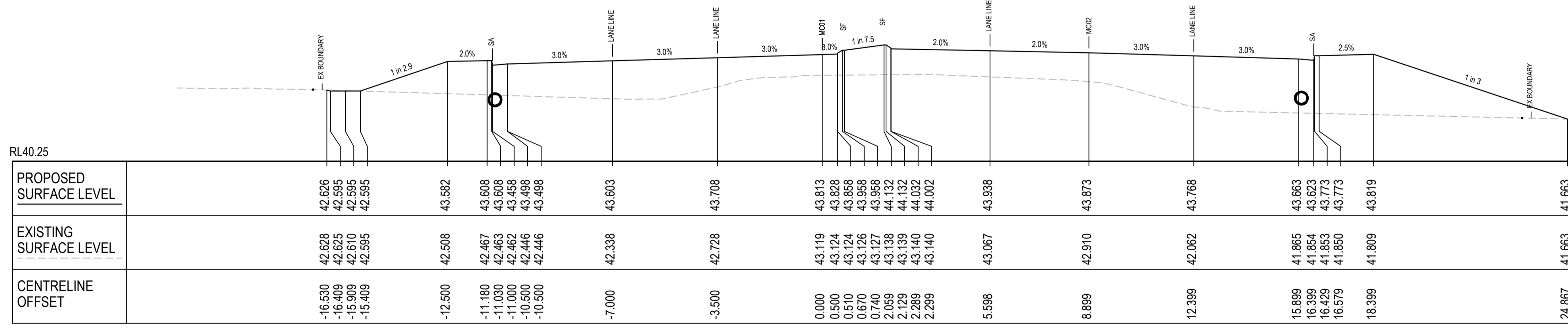
Issue
1



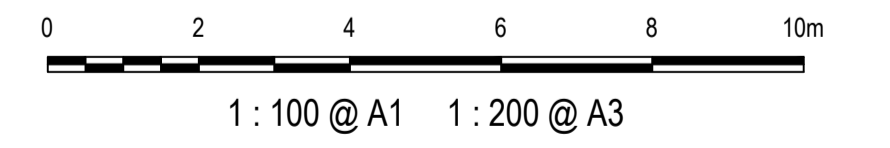
CH 620



CH 600.211



CH 600



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

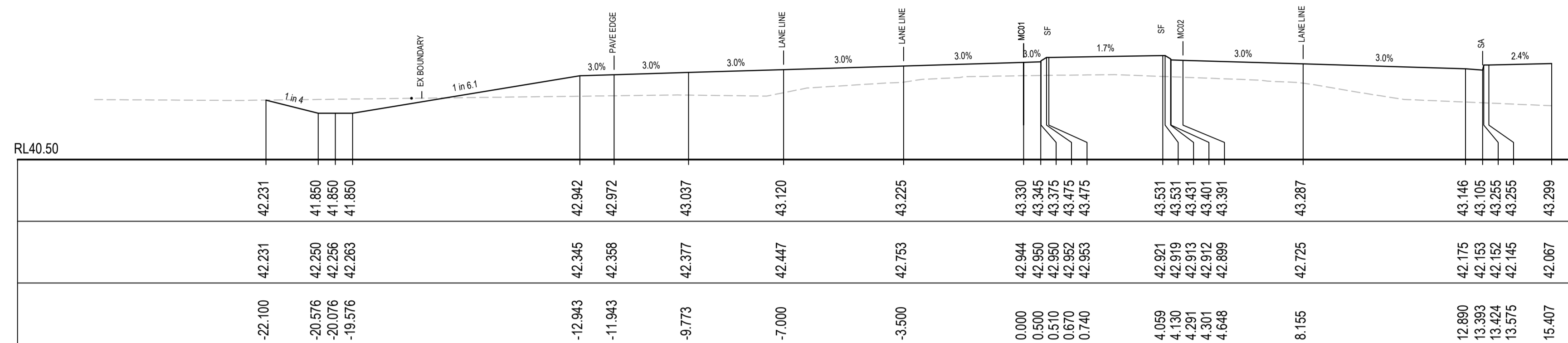
Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS
MC01
SHEET 10

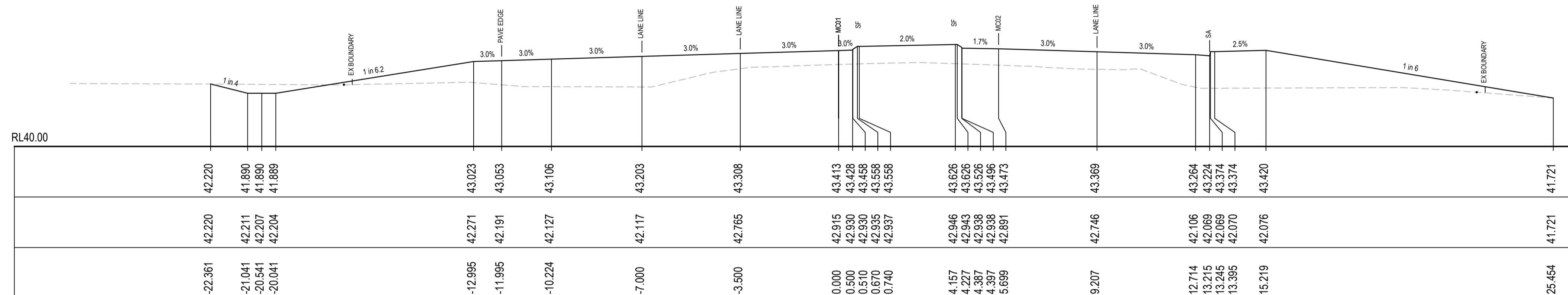
Civil Engineers and Project Managers

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

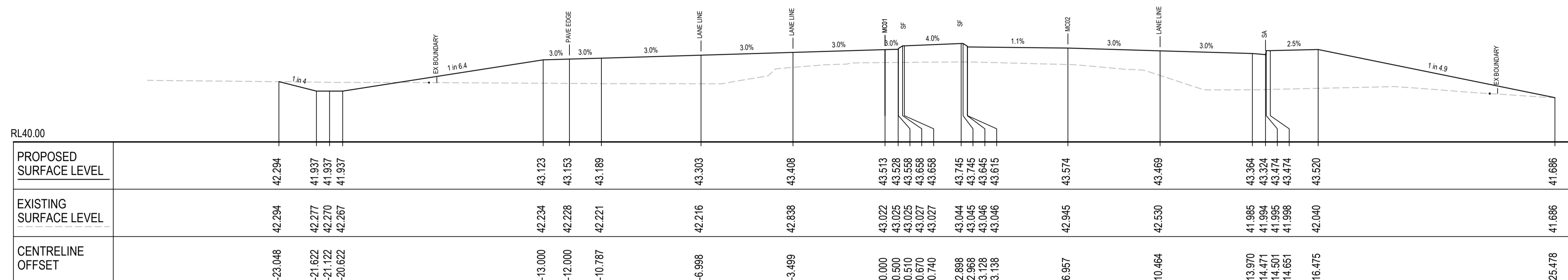
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
Project - Drawing No.	RC-2210	Issue	1



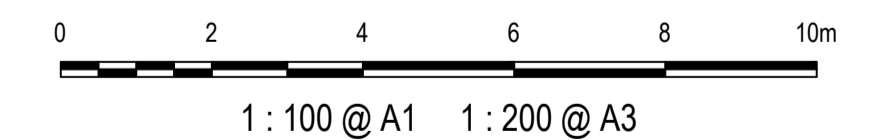
CH 696.5



CH 680



CH 660



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS
MC01
SHEET 12

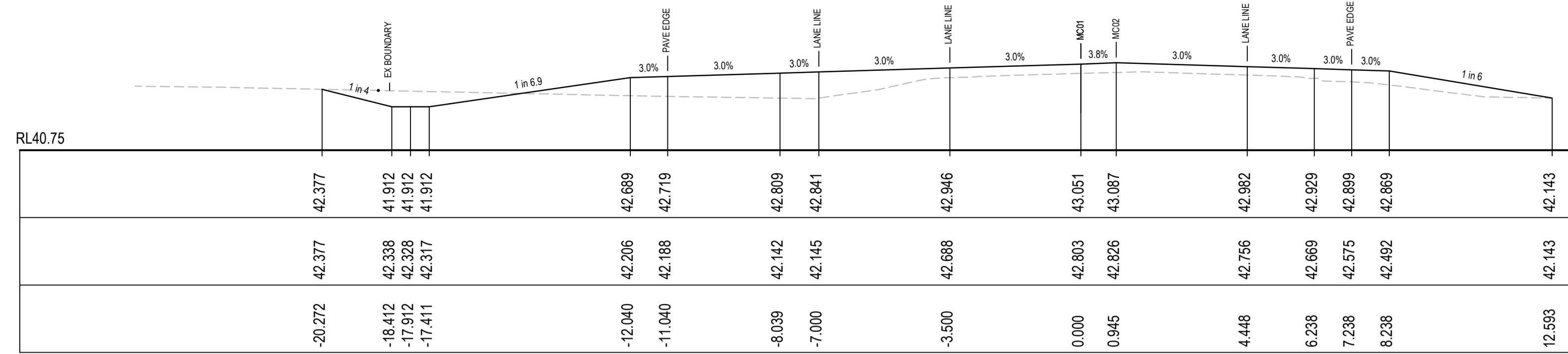
Civil Engineers and Project Managers

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

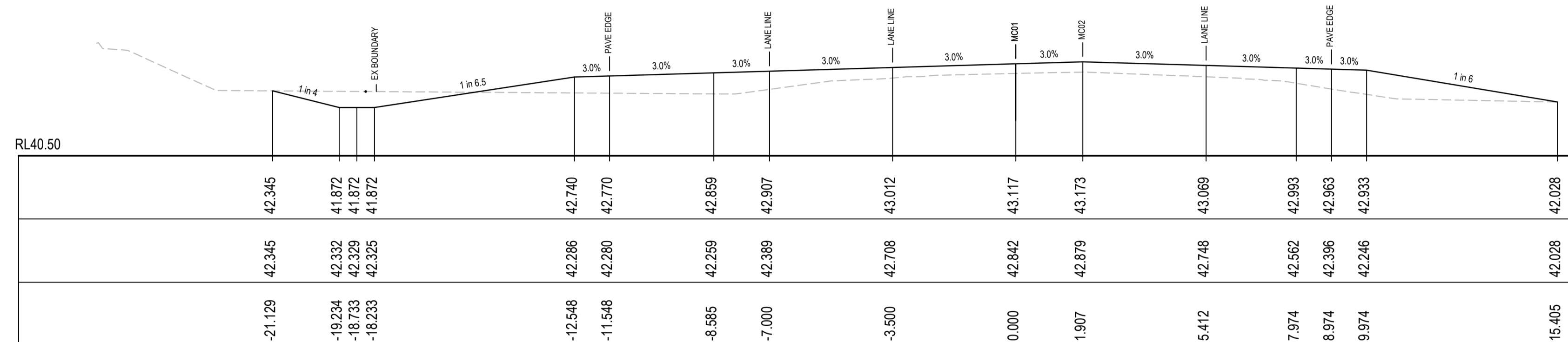
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2212

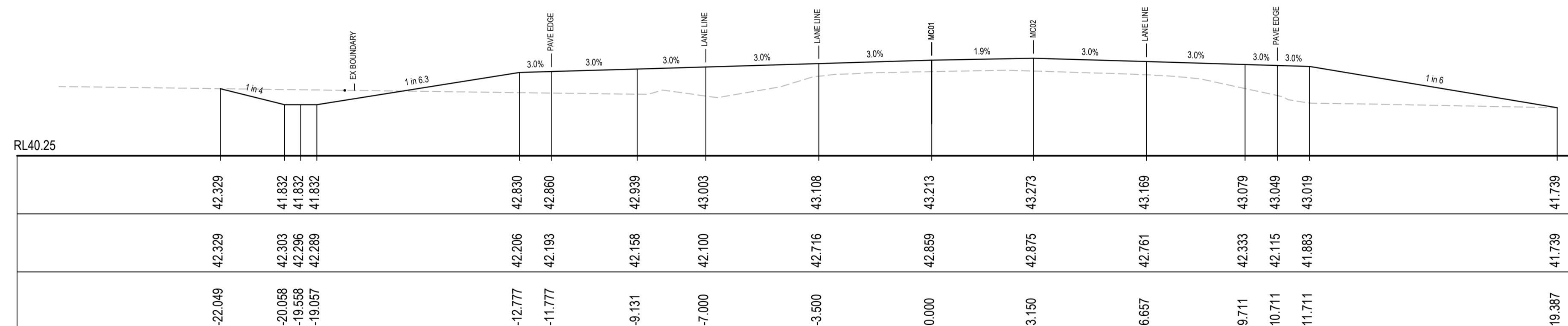
Issue
1



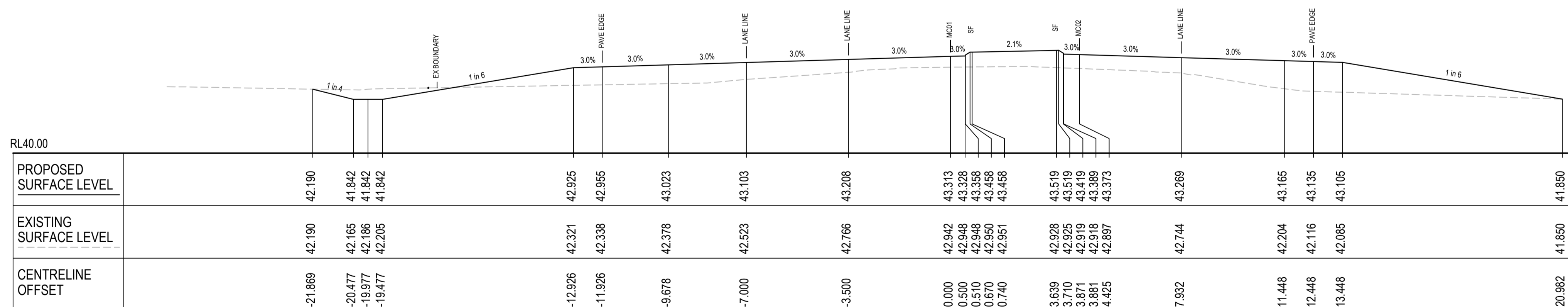
CH 760



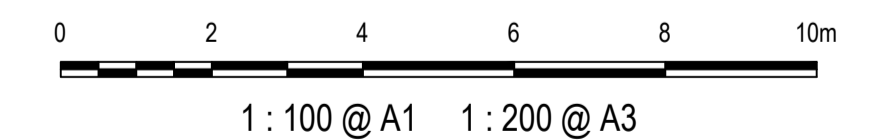
CH 740



CH 720



CH 700



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS
MC01
SHEET 13

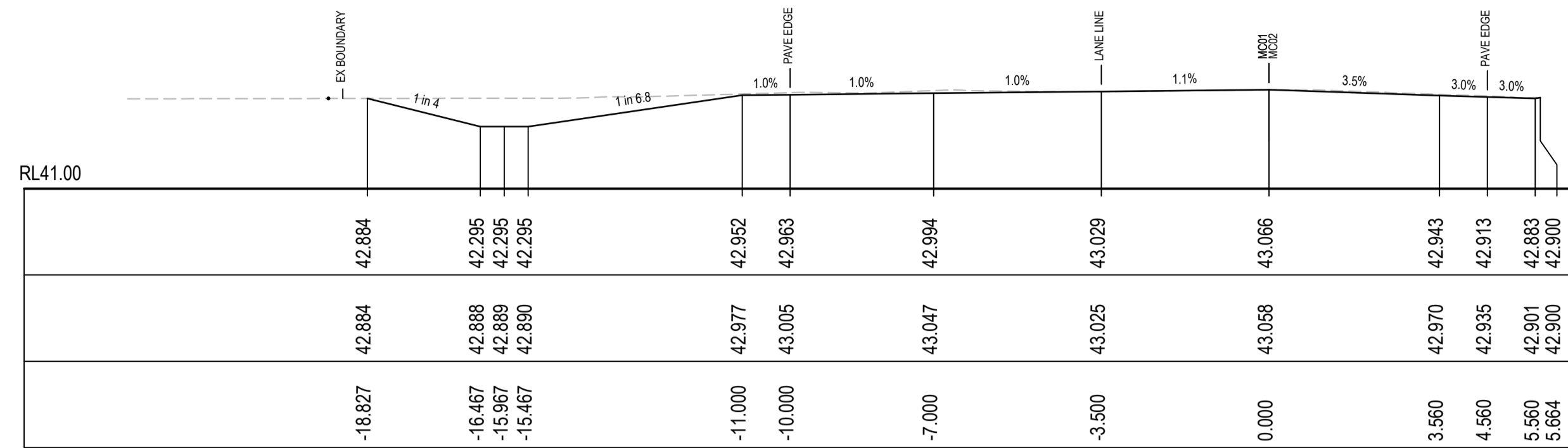
Civil Engineers and Project Managers

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

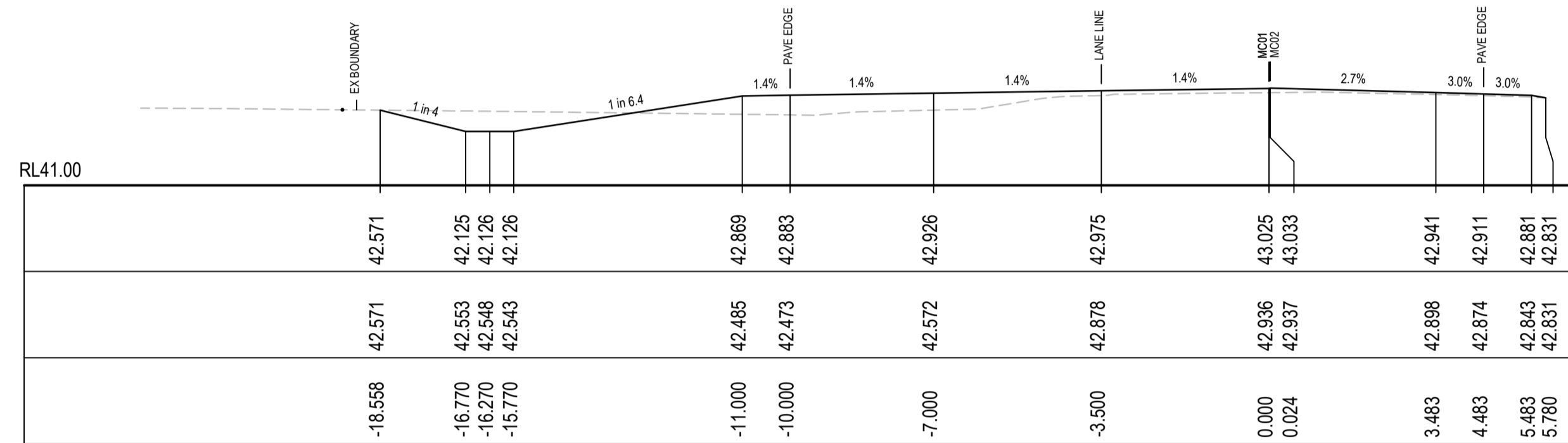
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2213

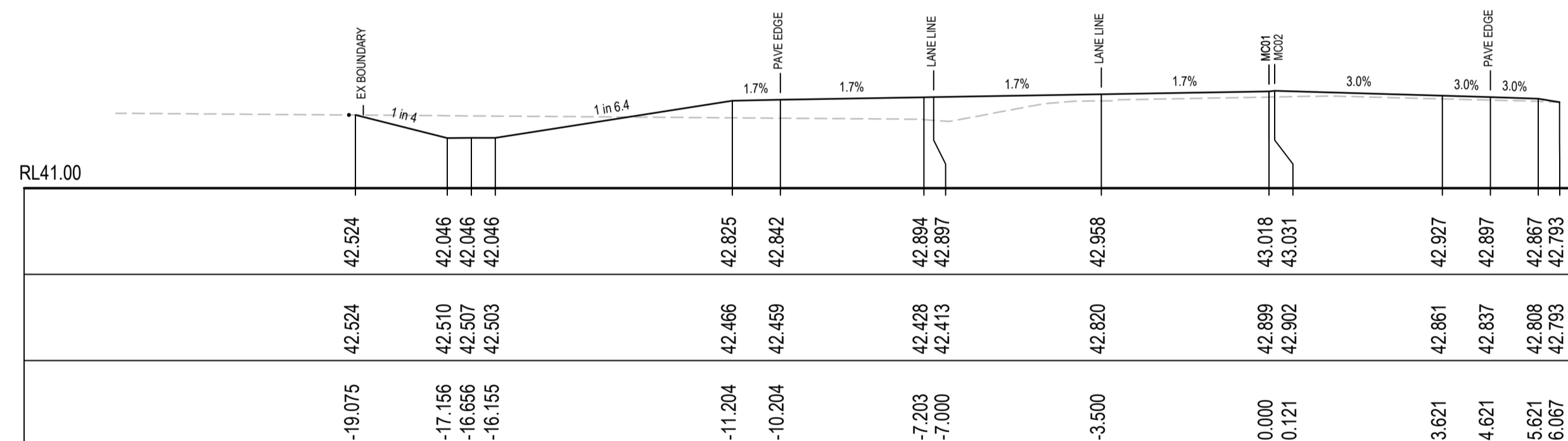
Issue
1



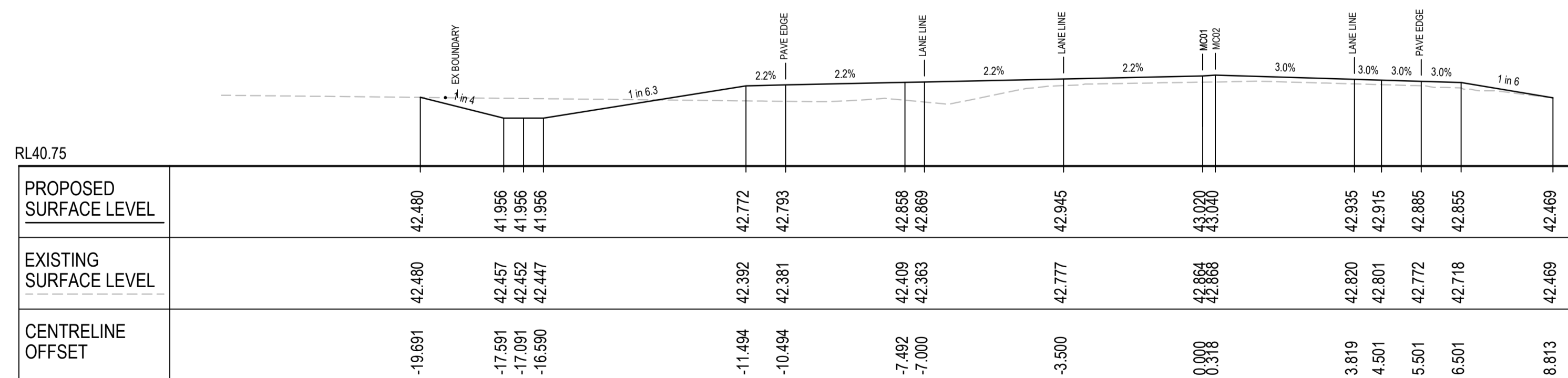
CH 820



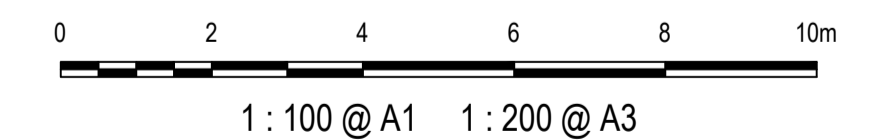
CH 800



CH 790.6



CH 780



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC01 SHEET 14

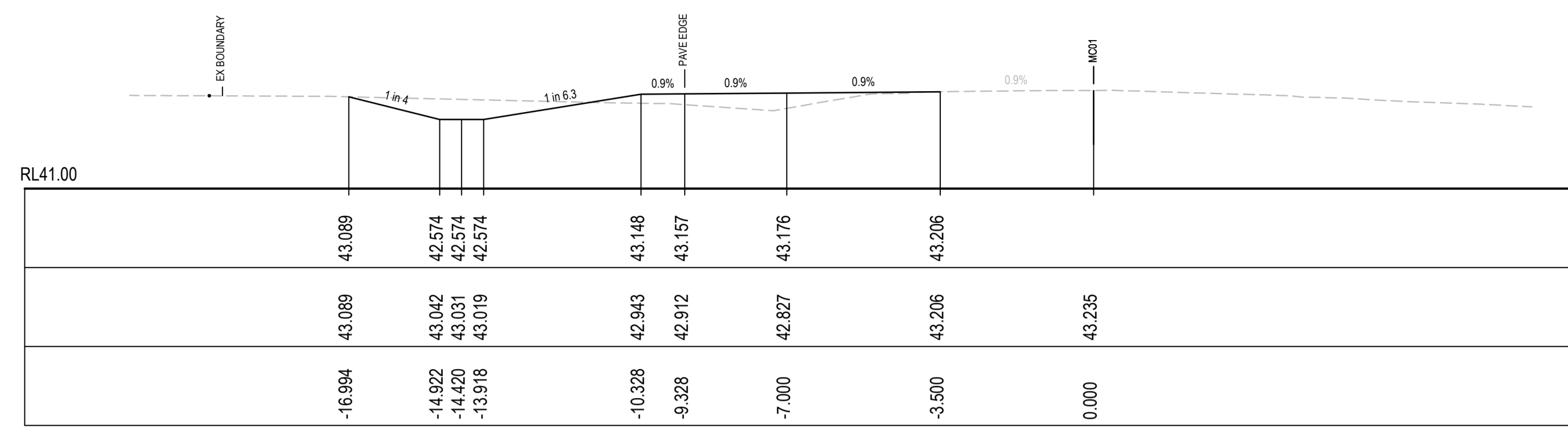
Civil Engineers and Project Managers

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

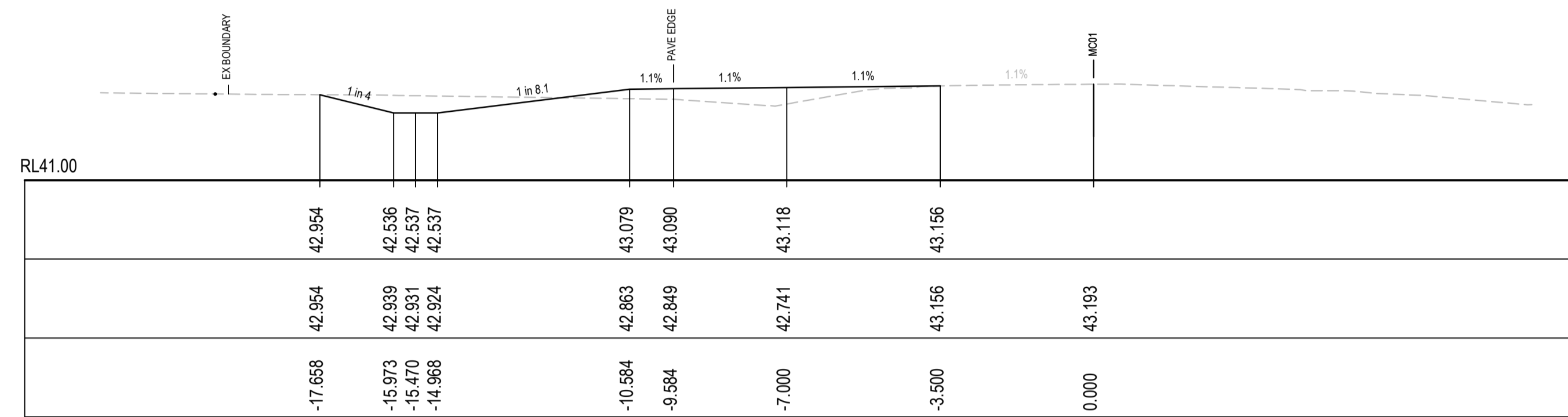
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2214

Issue
1



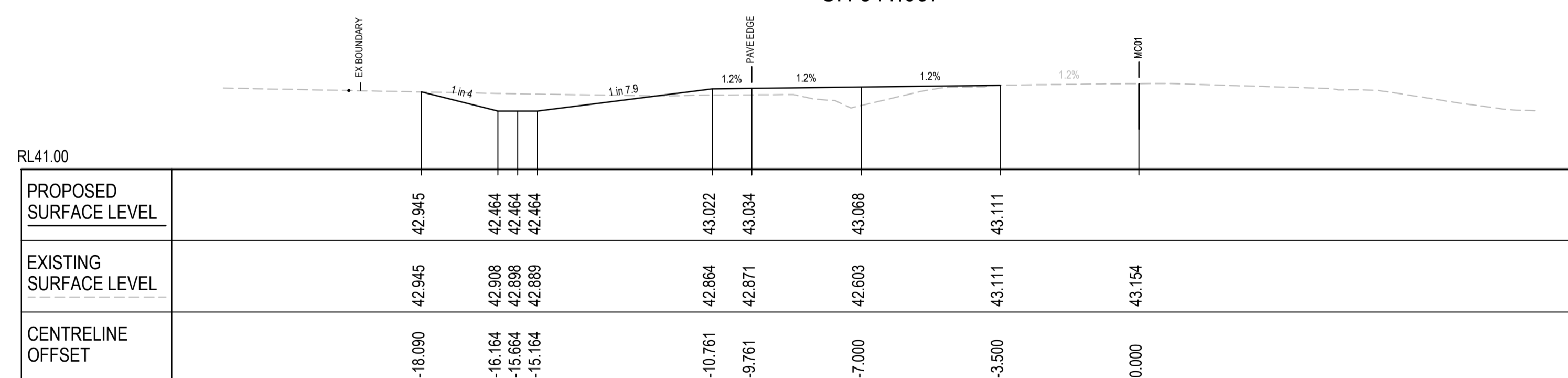
CH 860



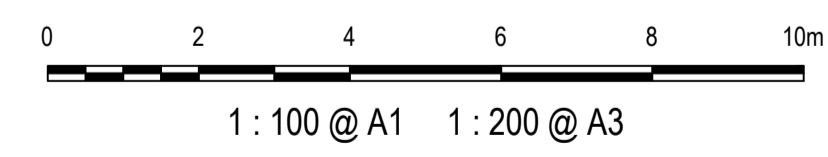
CH 848.6



CH 841.667



CH 840



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

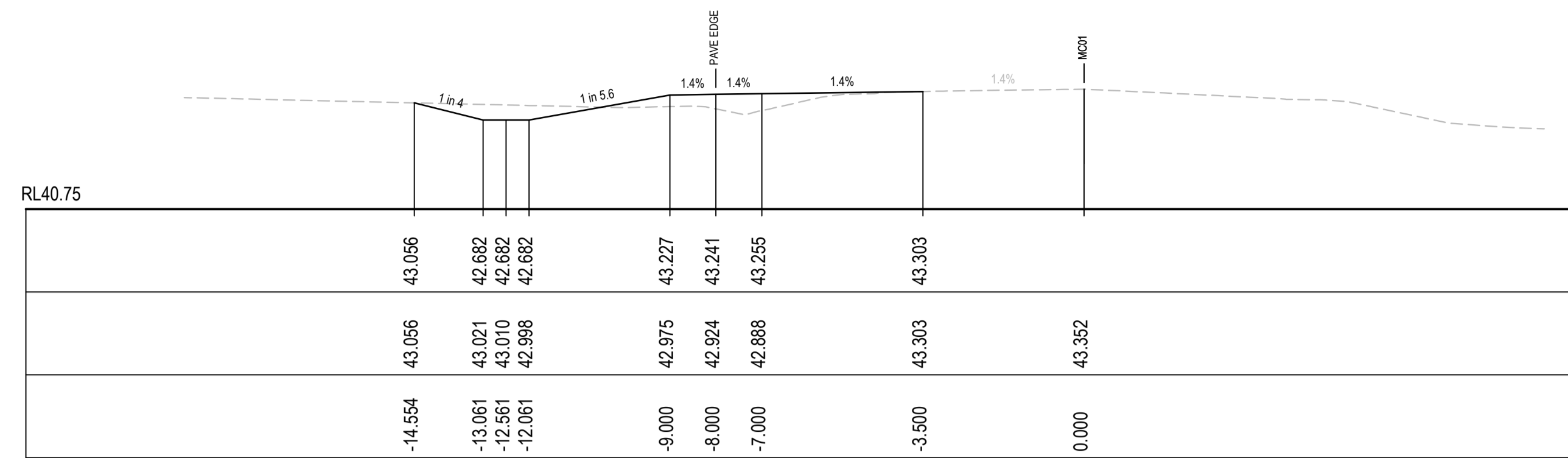
Client	
--------	--

Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

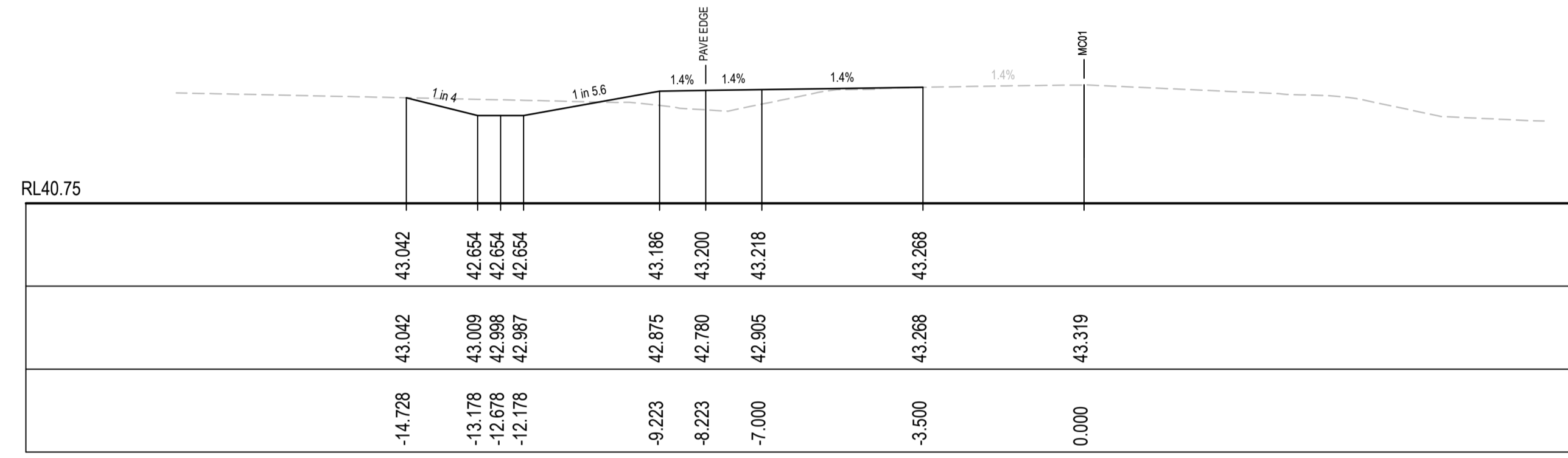
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD CROSS SECTIONS MC01 SHEET 15

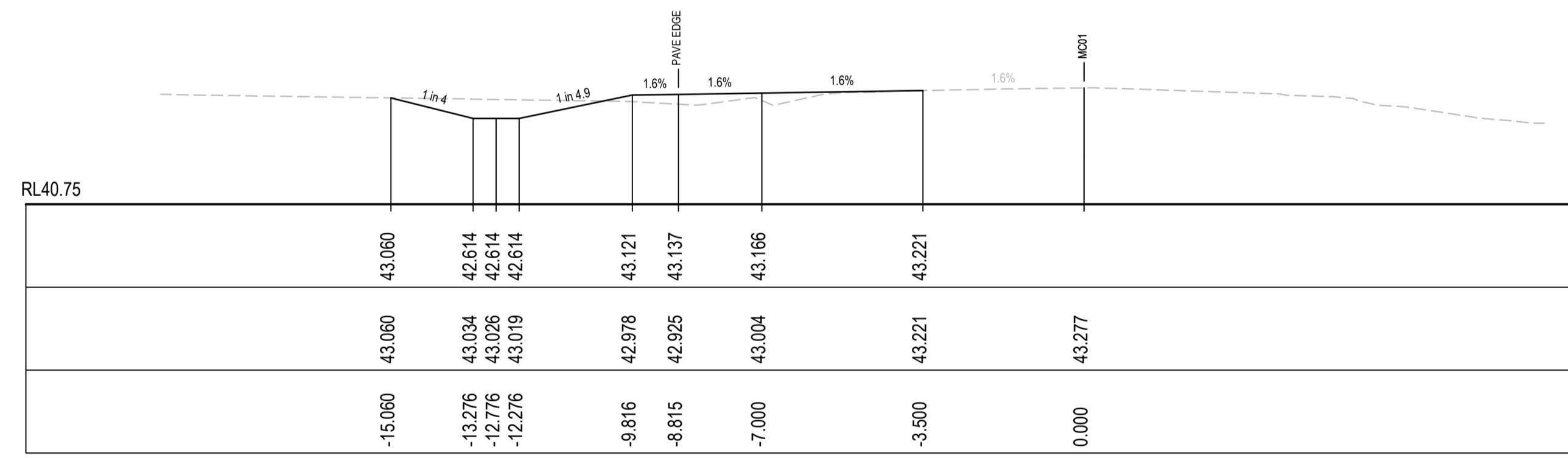
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RC-2215
Issue	1



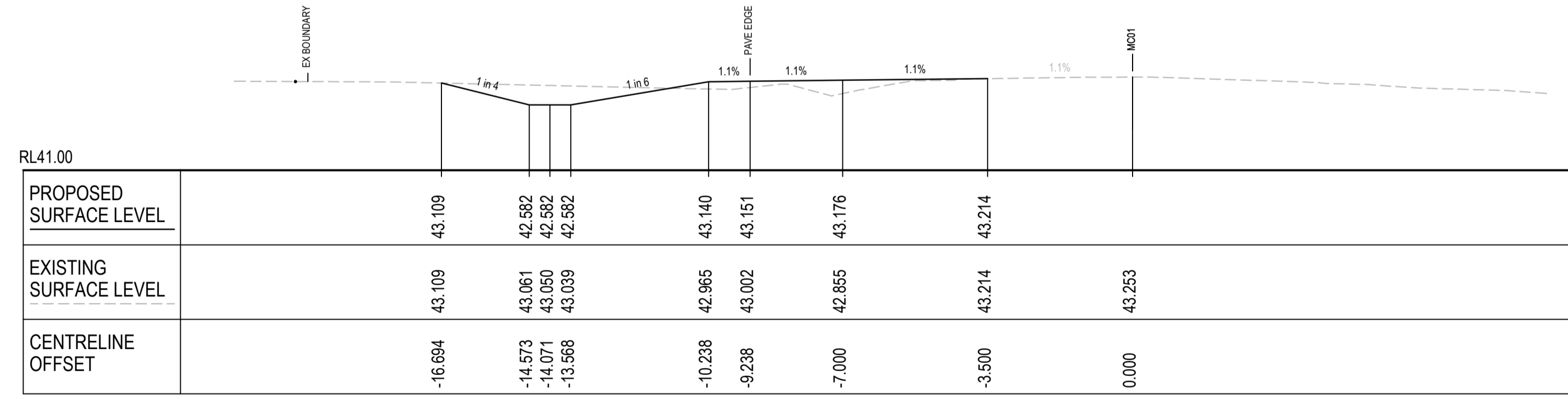
CH 914.146



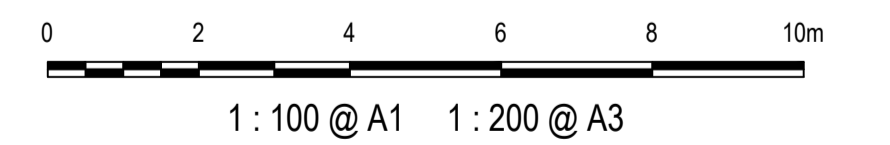
CH 900



CH 880



CH 863.73



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TFNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC01 SHEET 16

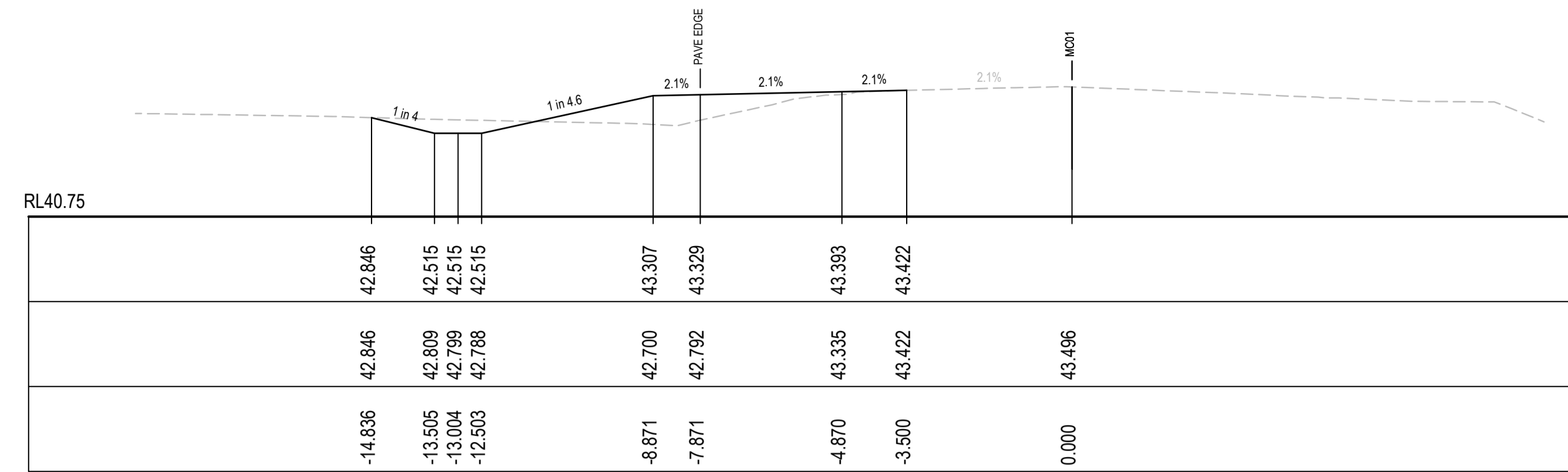
Civil Engineers and Project Managers

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION

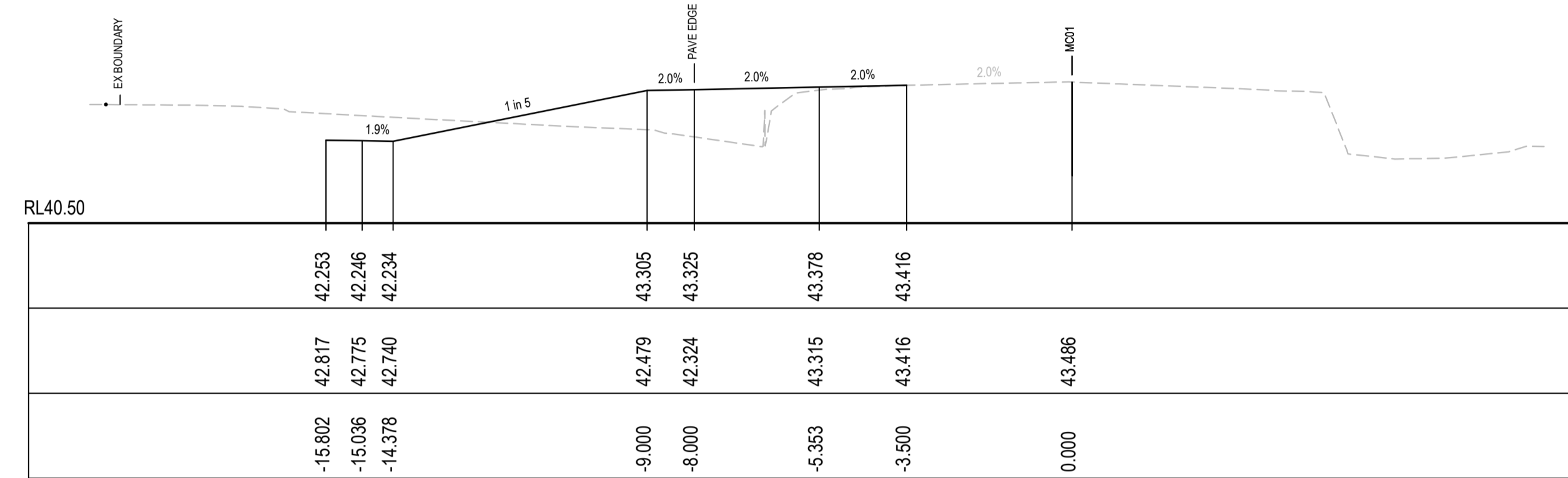
Project - Drawing No.
RC-2216

Issue
1



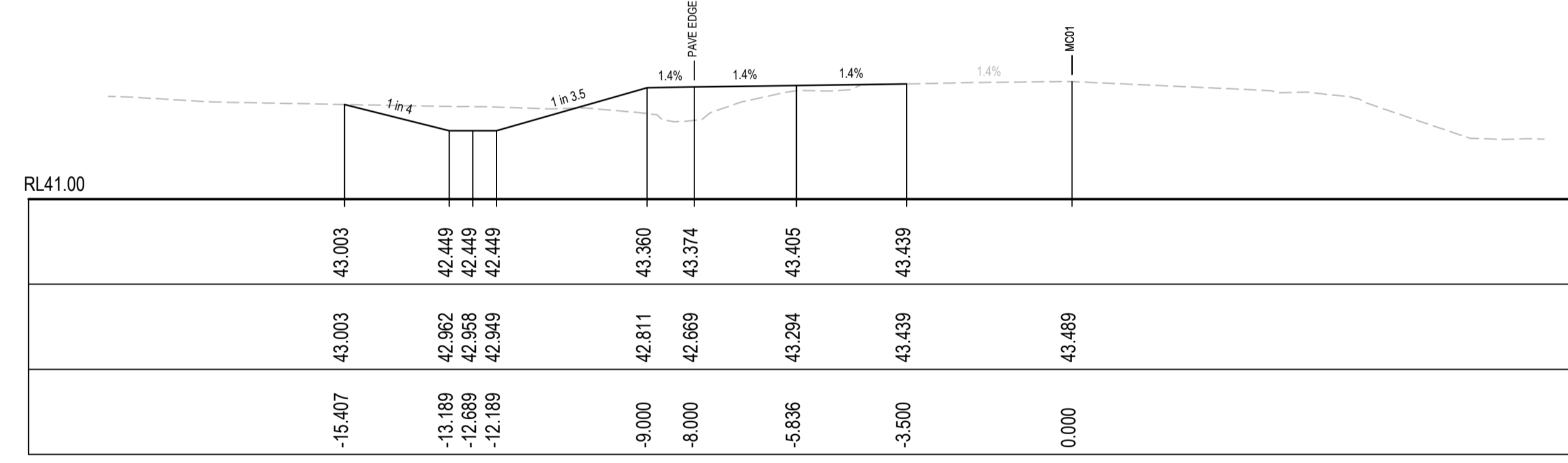
RL40.75	42.846	42.846	42.846	42.846	43.307	43.329	43.383	43.422	
	42.846	42.809	42.799	42.788	42.700	42.792	43.335	43.422	43.496
	-14.836	-13.505	-13.004	-12.503	-8.871	-7.871	-4.870	-3.500	0.000

CH 1060



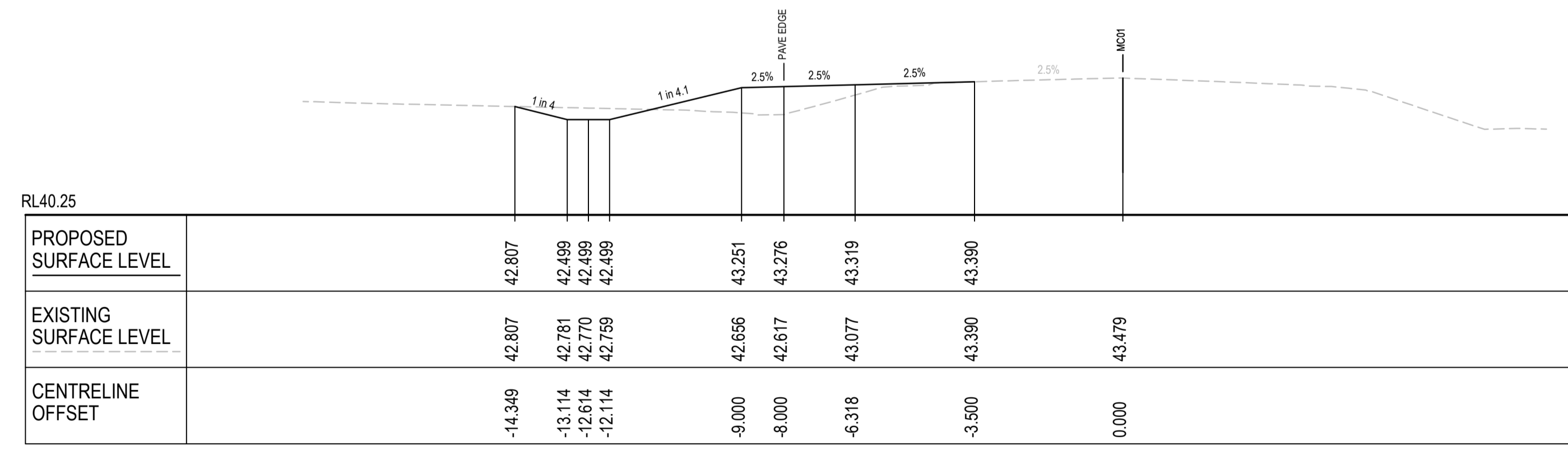
RL40.50	42.253	42.246	42.234		43.305	43.325	43.378	43.416	
	42.817	42.775	42.740		42.479	42.324	43.315	43.416	43.486
	-15.802	-15.036	-14.378		-9.000	-8.000	-5.353	-3.500	0.000

CH 1040



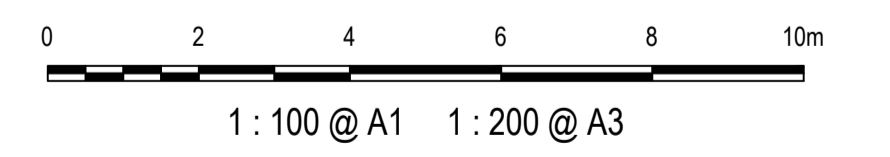
RL41.00	43.003	42.449	42.449	42.449	43.360	43.374	43.405	43.439	
	43.003	42.962	42.958	42.949	42.811	42.669	43.294	43.439	43.489
	-15.407	-13.189	-12.689	-12.189	-9.000	-8.000	-5.836	-3.500	0.000

CH 1020



RL40.25	42.807	42.499	42.499	42.499	43.251	43.276	43.319	43.390	
PROPOSED SURFACE LEVEL	42.807	42.499	42.499	42.499	43.251	43.276	43.319	43.390	
EXISTING SURFACE LEVEL	42.807	42.781	42.770	42.759	42.656	42.617	43.077	43.390	43.479
CENTRELINE OFFSET	-14.349	-13.114	-12.614	-12.114	-9.000	-8.000	-6.318	-3.500	0.000

CH 1000



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

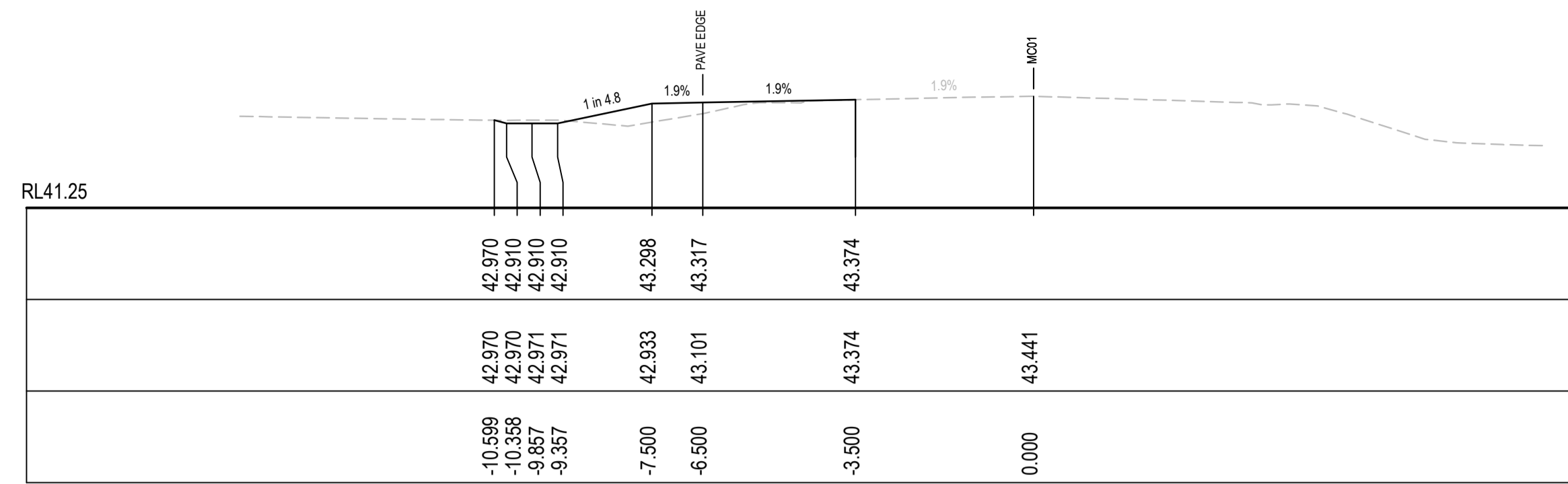
Client	
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Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

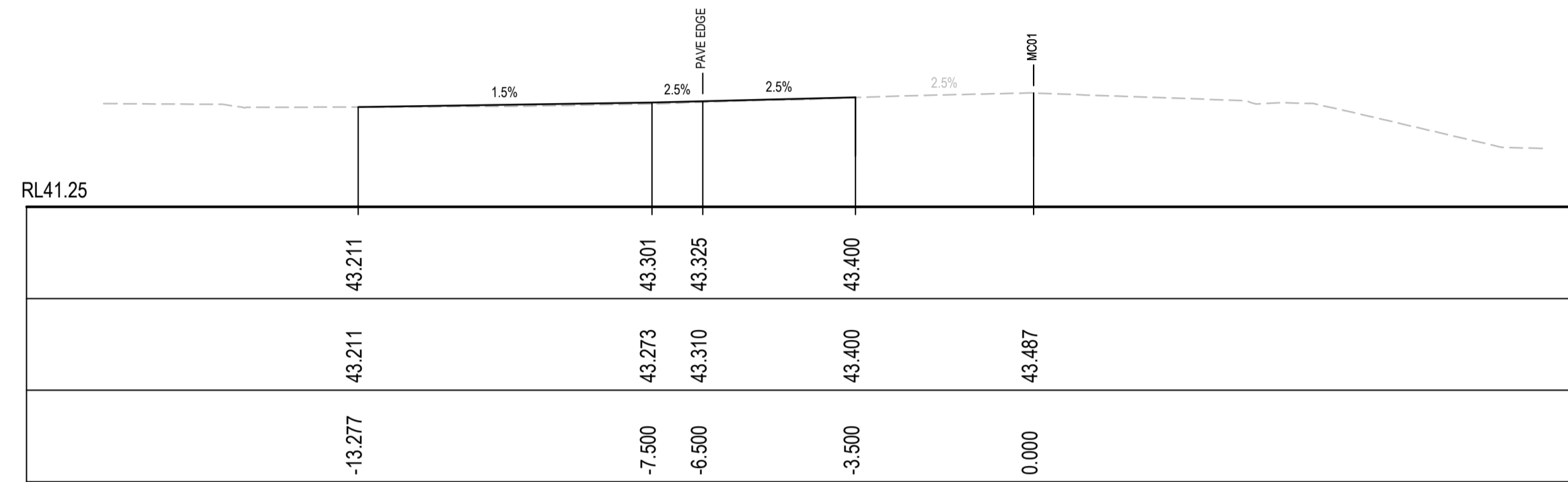
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD CROSS SECTIONS MC01 SHEET 17

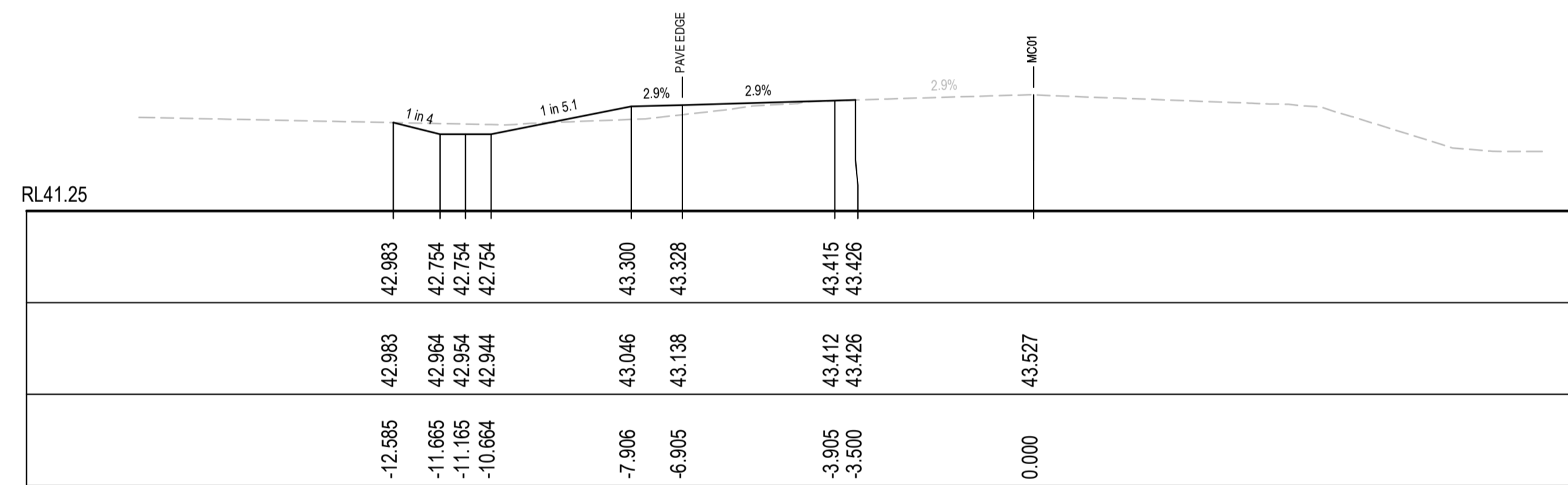
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RC-2217
Issue	1



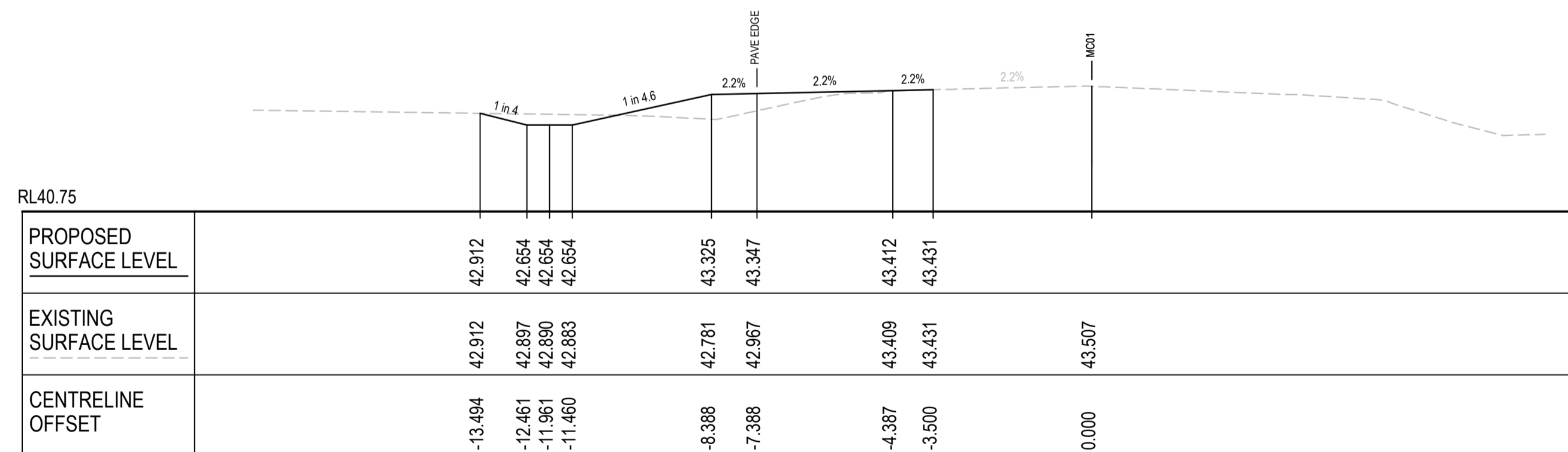
CH 1140



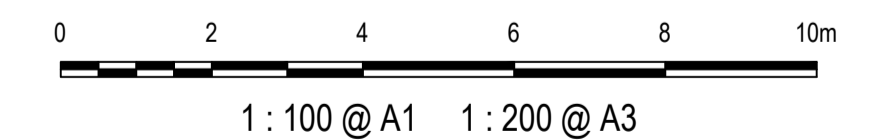
CH 1120



CH 1100



CH 1080



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS
MC01
SHEET 18

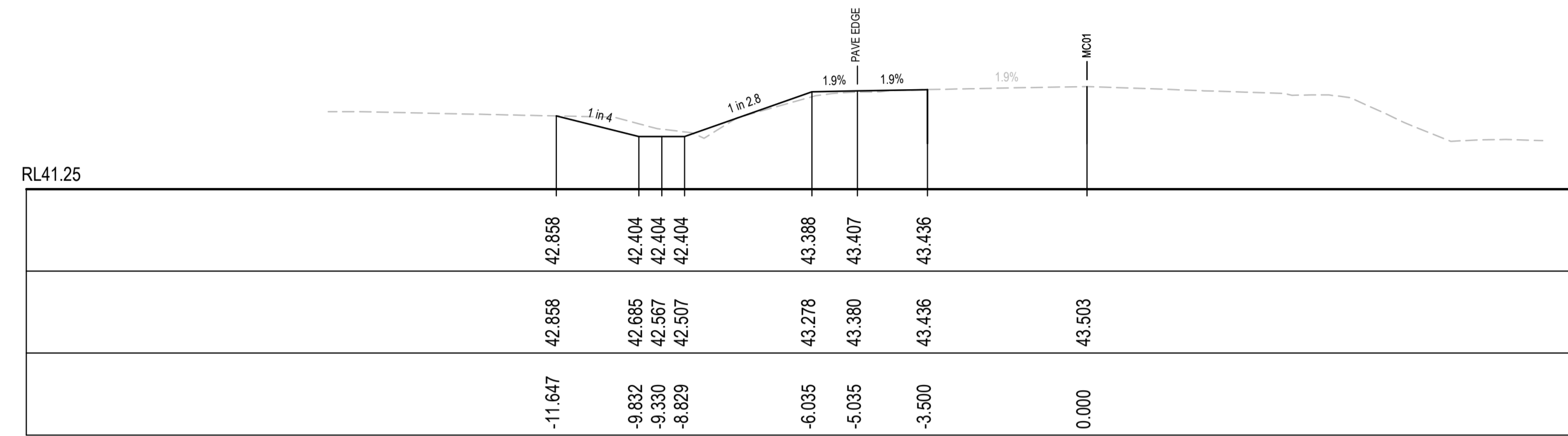
Civil Engineers and Project Managers

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

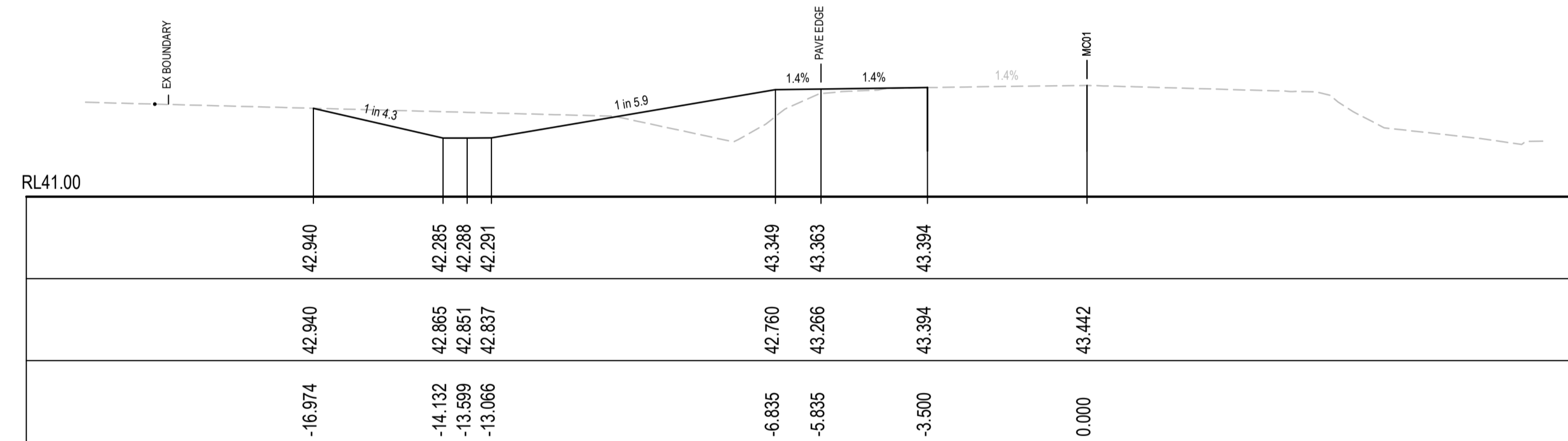
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2218

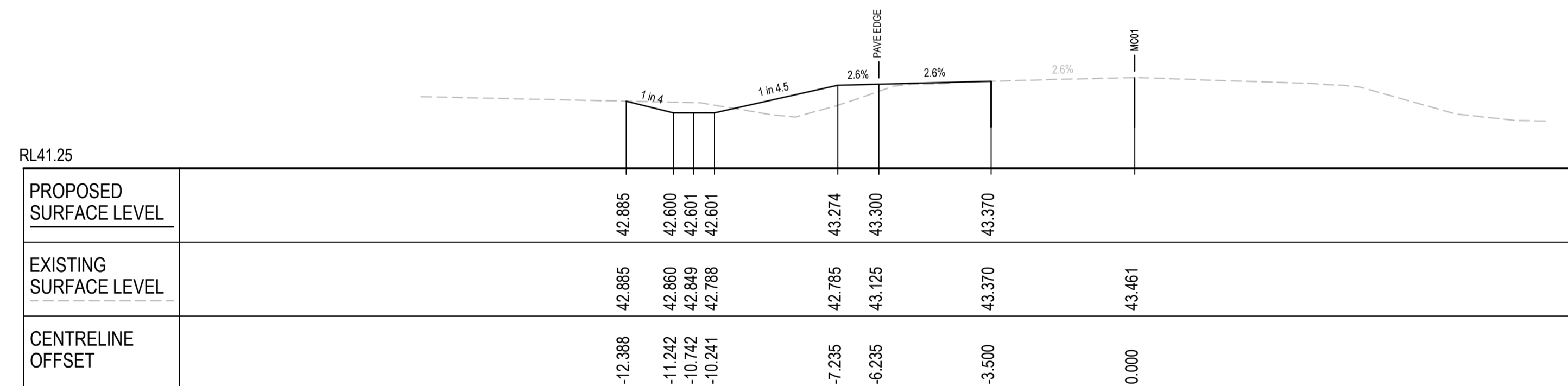
Issue
1



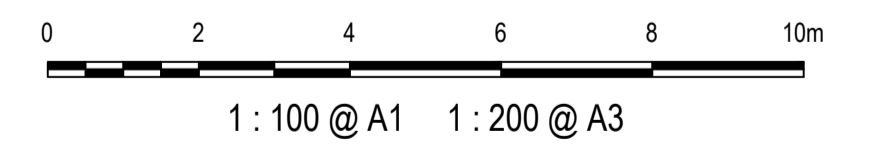
CH 1220



CH 1180



CH 1160



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
TTNSW REGISTRATION No.	DS2000/000000

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

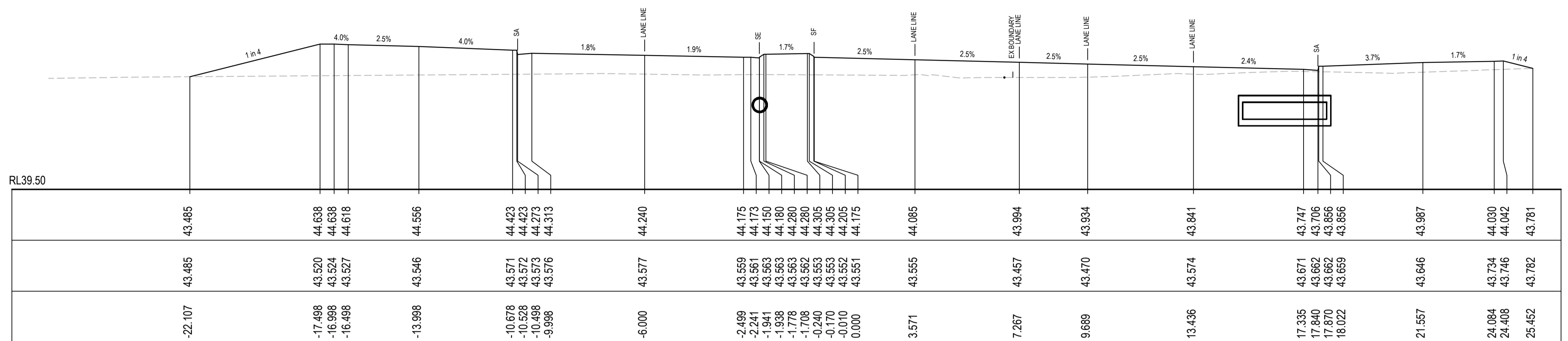
Title

ROAD CROSS SECTIONS MC01 SHEET 19

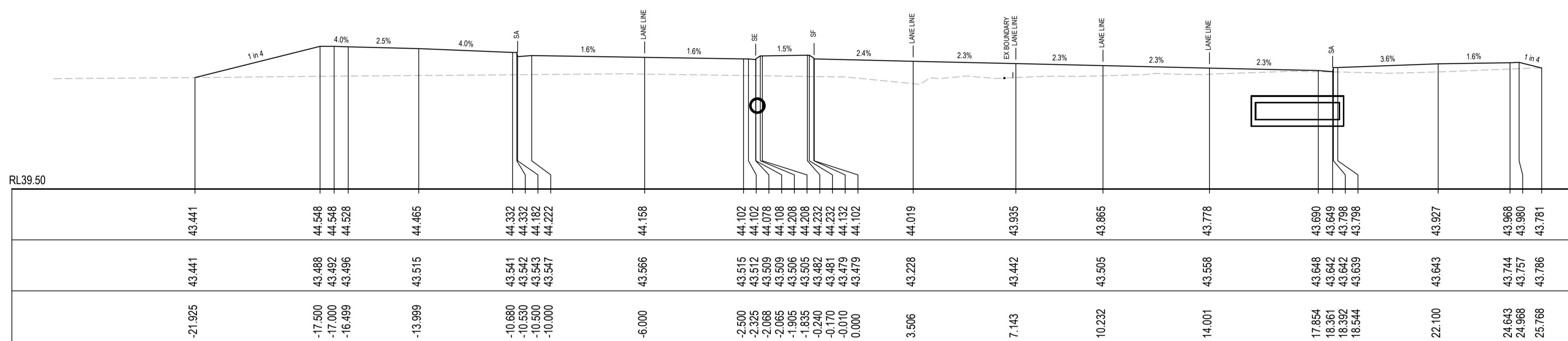
Civil Engineers and Project Managers

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

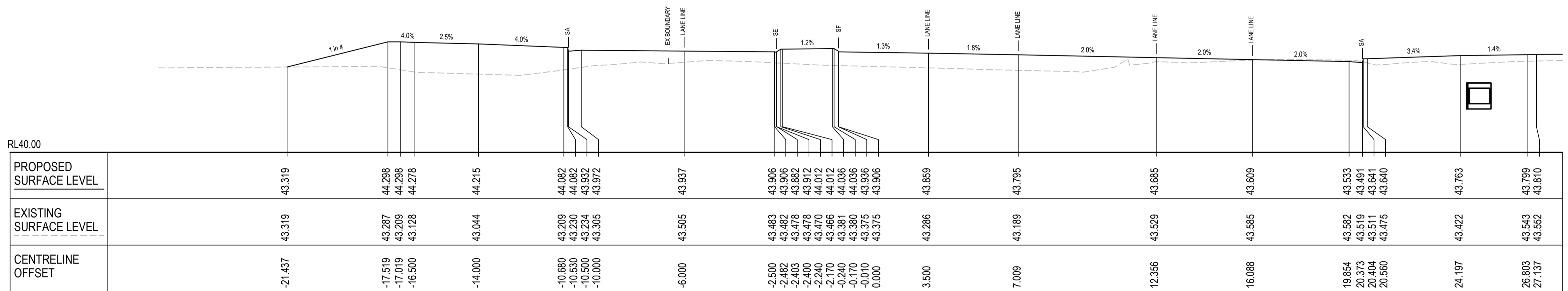
Status	FOR APPROVAL	A1
Project - Drawing No.	RC-2219	Issue
		1



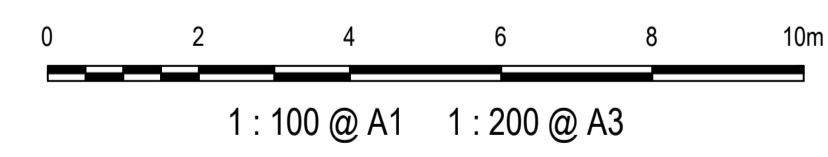
CH 63.304



CH 60



CH 51.096



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

PROPOSED SURFACE LEVEL	43.319	44.298	44.298	44.278	44.215	44.082	44.082	43.937	43.906	43.906	43.859	43.795	43.685	43.609	43.533	43.491	43.641	43.640	43.763	43.799	43.810									
EXISTING SURFACE LEVEL	43.319	43.287	43.289	43.128	44.044	43.209	43.200	43.234	43.932	43.932	43.859	43.795	43.685	43.609	43.533	43.491	43.641	43.640	43.763	43.799	43.810									
CENTRELINE OFFSET	-21.437	-17.519	-17.019	-16.500	-14.000	-10.680	-10.580	-10.500	-10.000	-6.000	2.500	-2.462	-2.403	-2.400	-2.240	-2.170	-0.240	-0.170	0.000	3.500	7.009	12.356	16.088	19.854	20.373	20.404	20.560	24.197	26.803	27.137

Client

Scales
1 : 100 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
ROAD CROSS SECTIONS MC03 SHEET 1

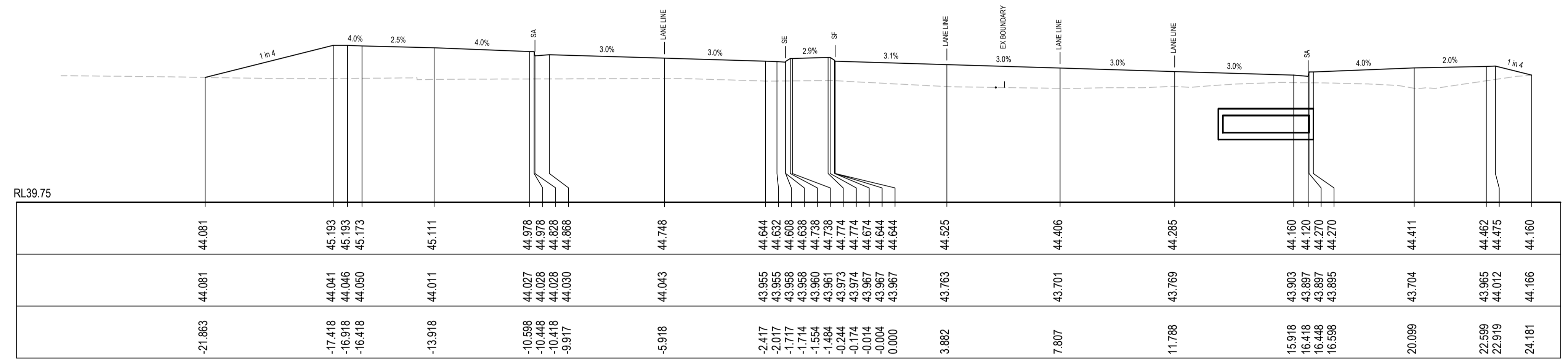
Civil Engineers and Project Managers

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

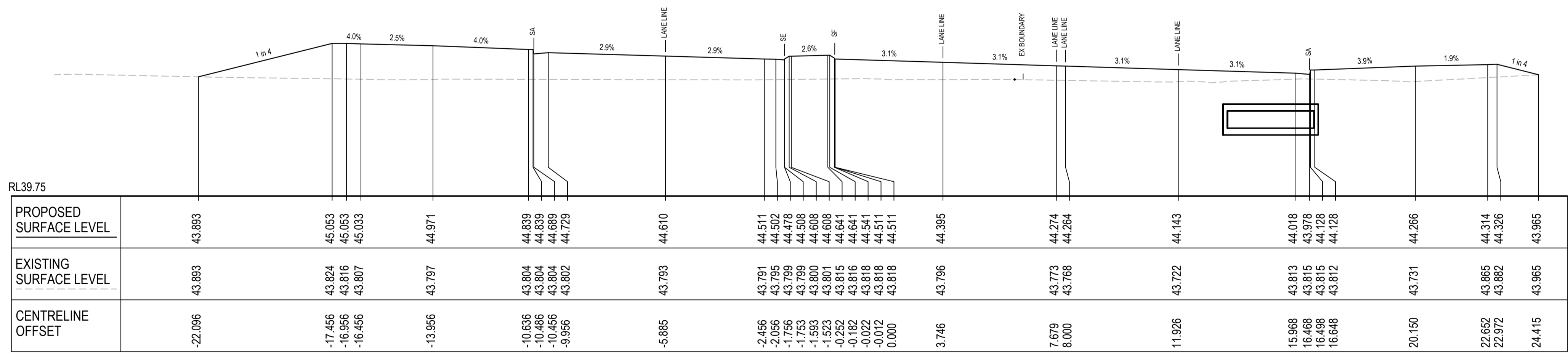
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
RC-2222

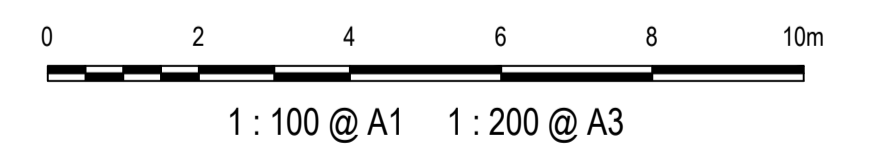
Issue
1



CH 88.74



CH 80



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client	FRASERS PROPERTY, ESR, Stockland, FIFECAPITAL
--------	---

Scales	1 : 100 @ A1
Grid	GDA2020
Height Datum	AHD
NSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

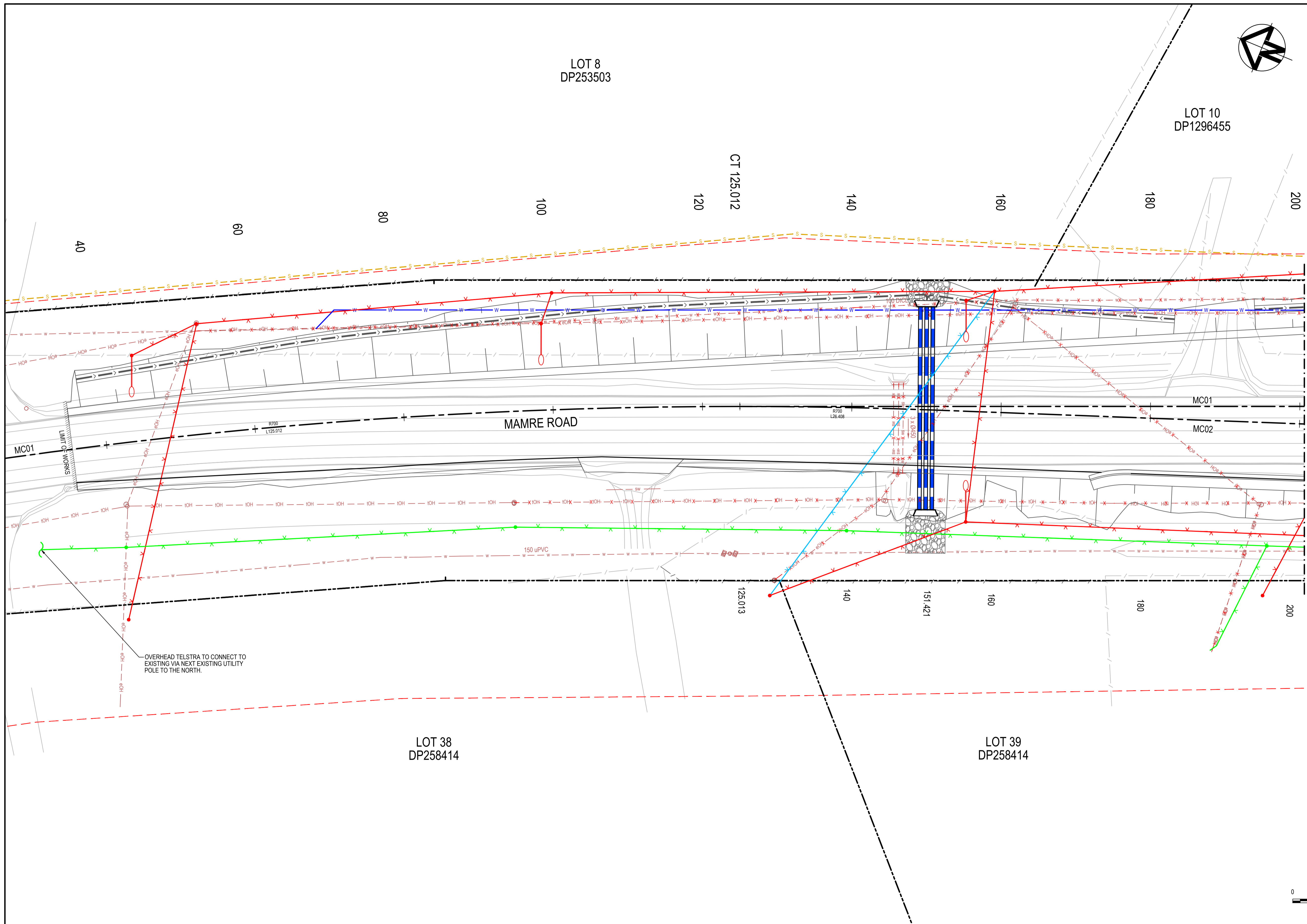
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD CROSS SECTIONS MC03 SHEET 2

Civil Engineers and Project Managers

at&

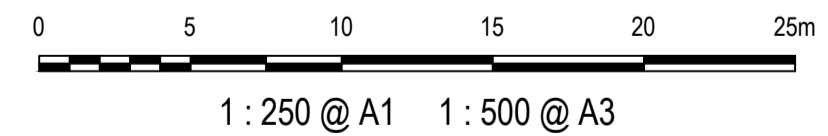
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	RC-2223	Issue
		1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER SERVICE	---
FORMATTER	---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---

FOR CONTINUATION REFER DRAWING UT-2300

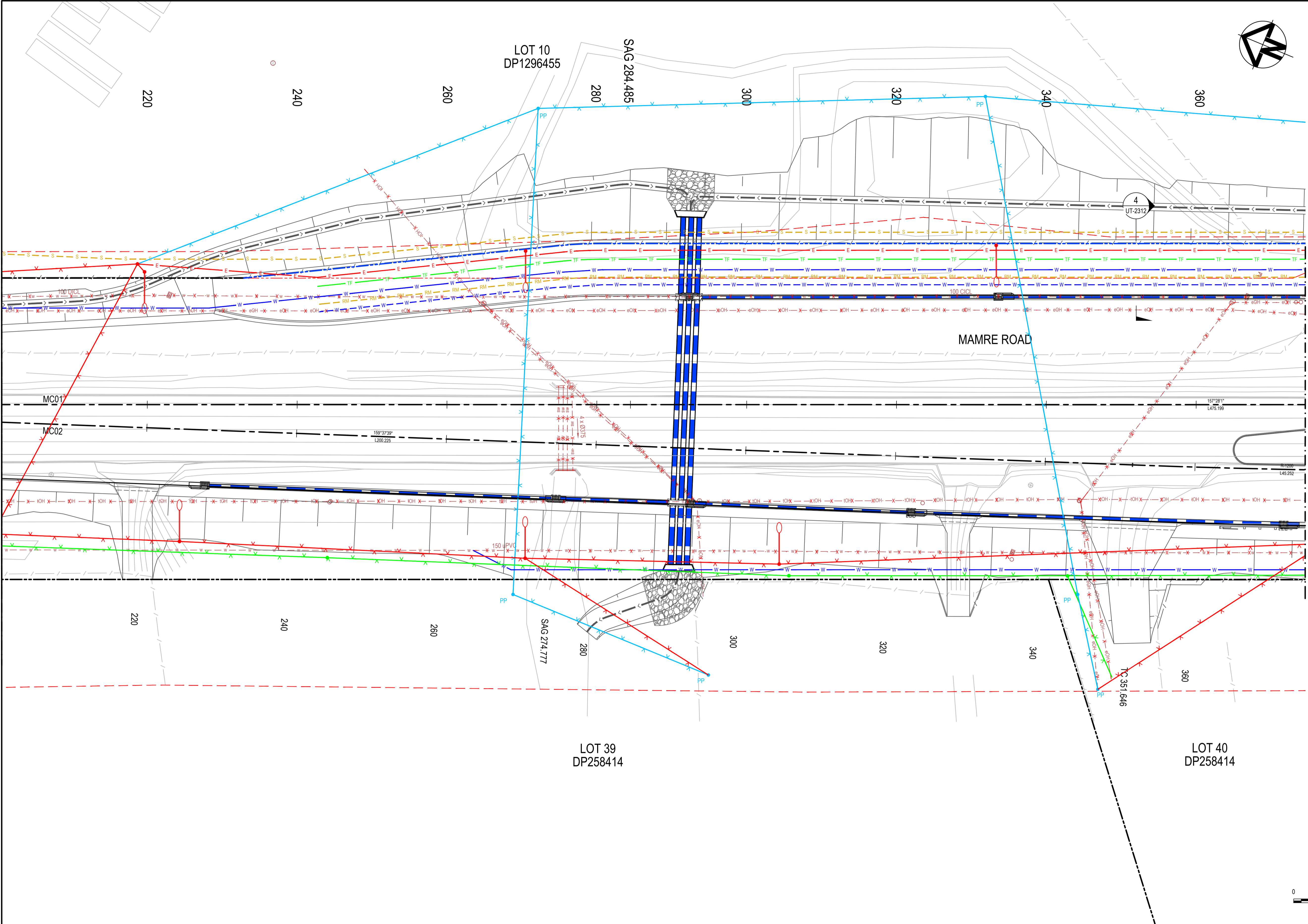


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Designed	GB	
Checked	AL	
Approved		Title UTILITIES PLAN SHEET 1

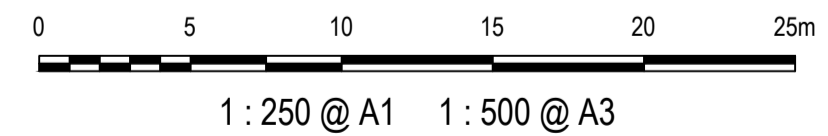
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	UT-2301
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	- - - -
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
EXISTING SERVICES	
ELECTRICITY	- - - -
ELECTRICITY OVERHEAD	- - - -
COMMUNICATIONS OVERHEAD	- - - -
WATER SERVICE	- - - -
FORMATTER	- - - -
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---

FOR CONTINUATION REFER DRAWING UT-2301

FOR CONTINUATION REFER DRAWING UT-2303



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Scal	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Title	UTILITIES PLAN SHEET 2

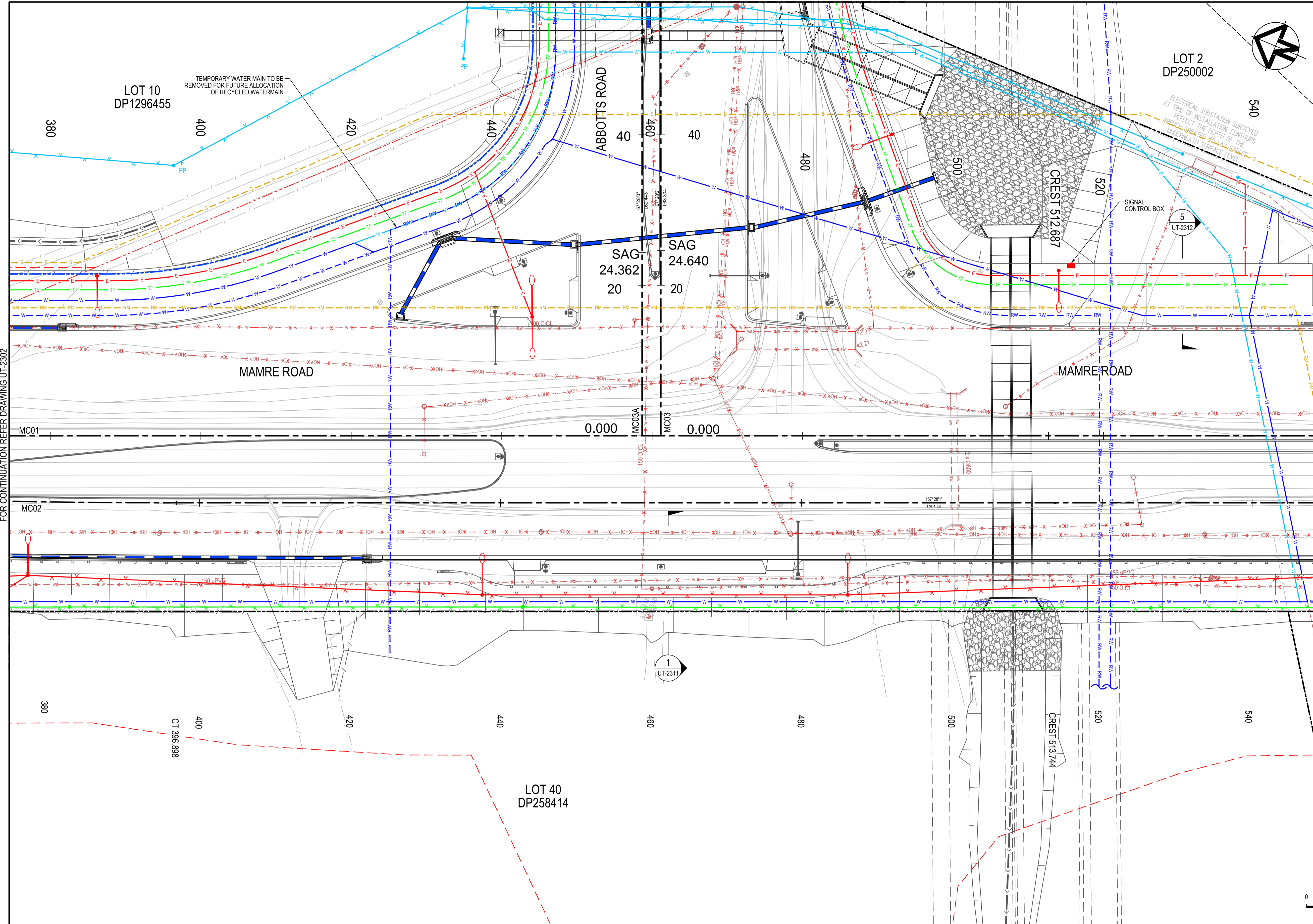
Client	FRASERS PROPERTY
Client	ESR
Client	Stockland
Client	FIFECAPITAL

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	UTILITIES PLAN SHEET 2

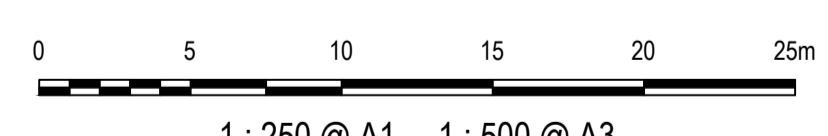
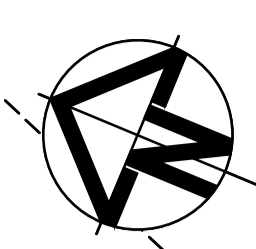
Civil Engineers and Project Managers

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 APPROVAL	A1
	NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	UT-2302	Issue
		1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER SERVICE	---
FORMATTER	---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---



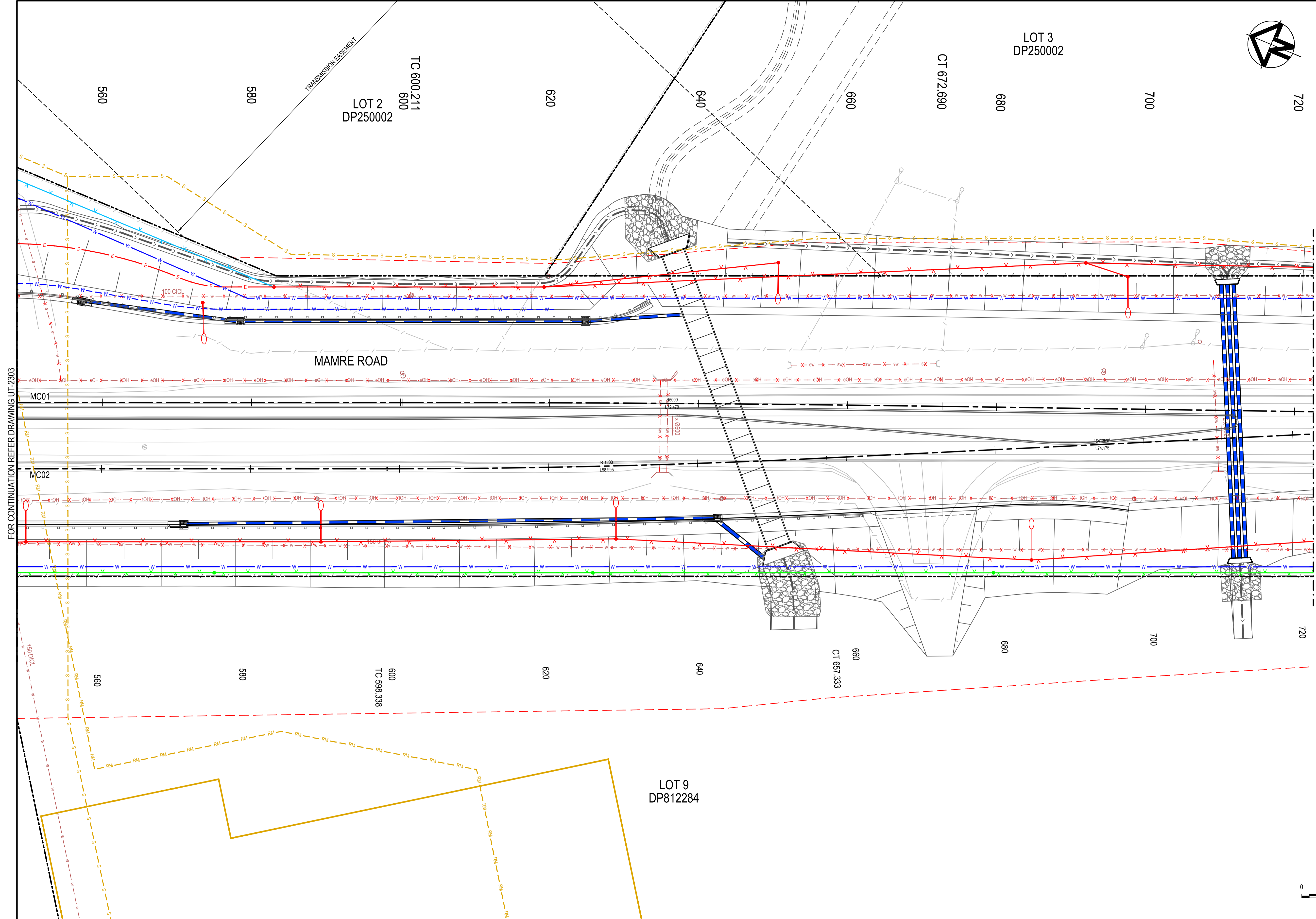
1 : 250 @ A1 1 : 500 @ A3

FOR CONTINUATION REFER DRAWING UT-2302

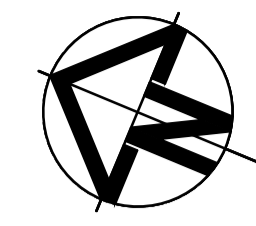
FOR CONTINUATION REFER DRAWING UT-2304

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	UTILITIES PLAN SHEET 3
Civil Engineers and Project Managers	<p>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</p>
Status	FOR APPROVAL
Project - Drawing No.	UT-2303
Issue	1

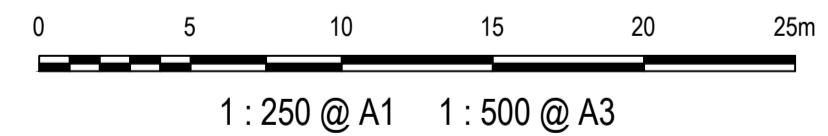


LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER SERVICE	---
FORMATTER	---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---



FOR CONTINUATION REFER DRAWING UT-2303

FOR CONTINUATION REFER DRAWING UT-2305

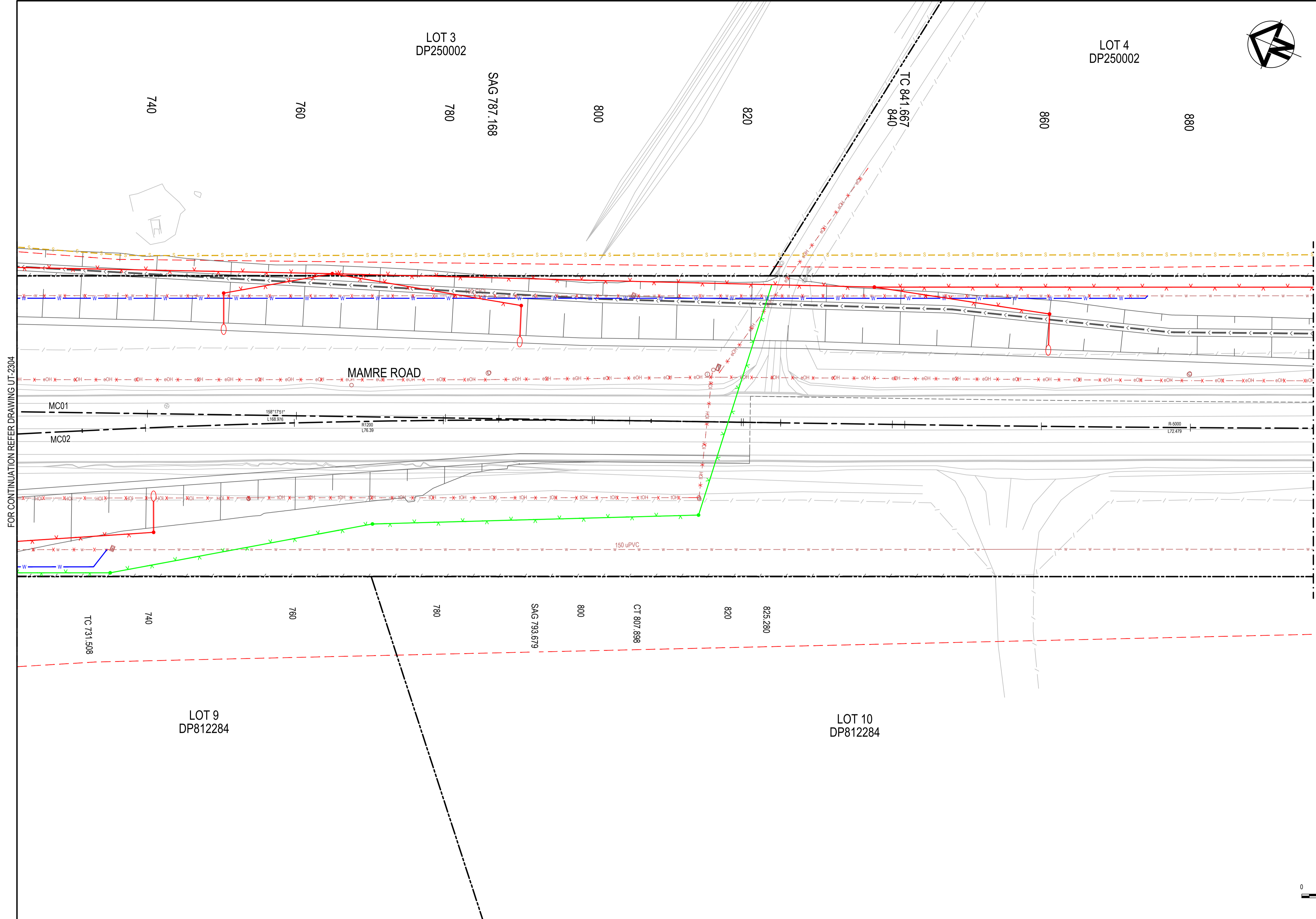


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	UTILITIES PLAN SHEET 4

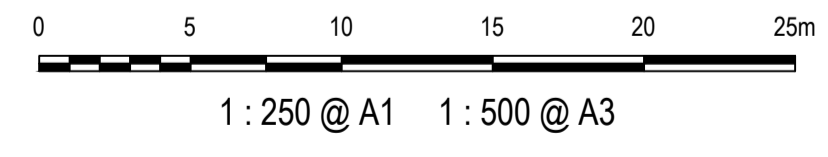
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	UT-2304
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER SERVICE	---
FORMATTER	---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---

FOR CONTINUATION REFER DRAWING UT-2304

FOR CONTINUATION REFER DRAWING UT-2306

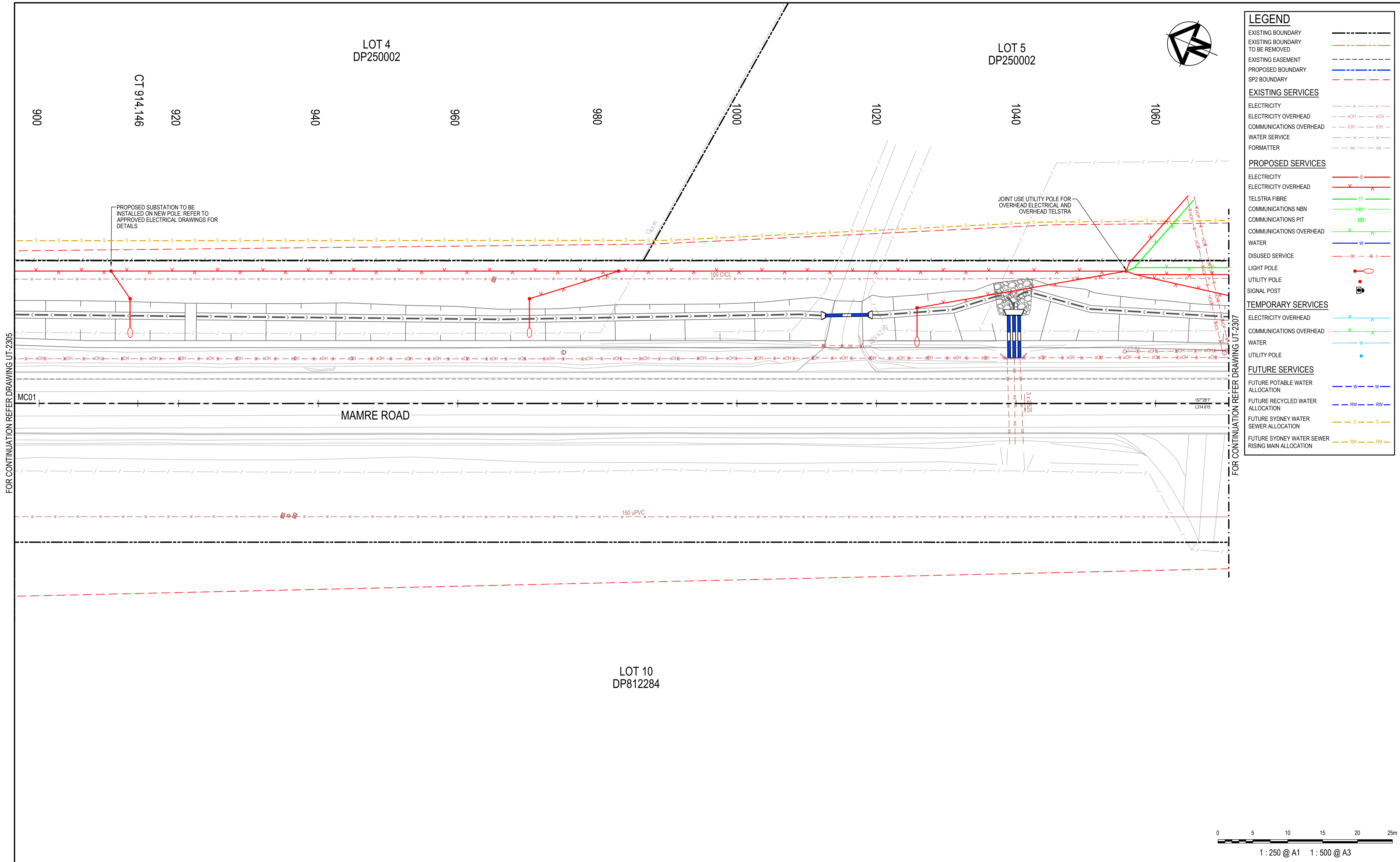


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION	
Title UTILITIES PLAN SHEET 5	

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	UT-2305
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---eOH---
COMMUNICATIONS OVERHEAD	---cOH---
WATER SERVICE	---w---
FORMATTER	---sw---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---v---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---v---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---

FOR CONTINUATION REFER DRAWING UT-2305

FOR CONTINUATION REFER DRAWING UT-2307

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 250 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
UTILITIES PLAN SHEET 6

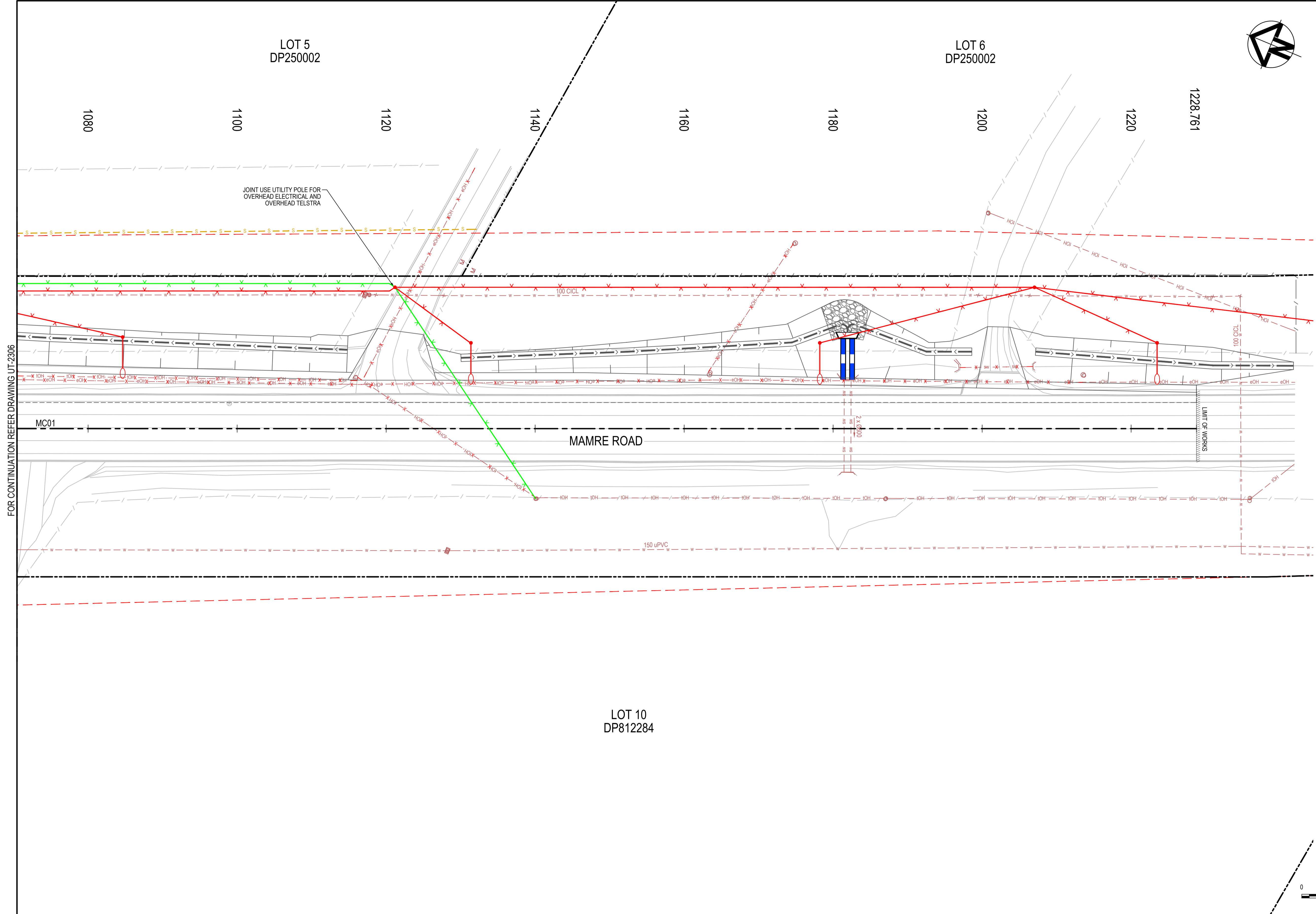
Civil Engineers and Project Managers

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION

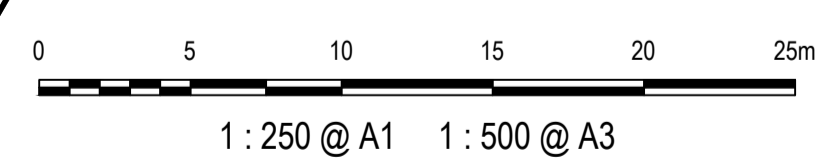
Project - Drawing No.
UT-2306

Issue
1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER SERVICE	---
FORMATTER	---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---

FOR CONTINUATION REFER DRAWING UT-2306

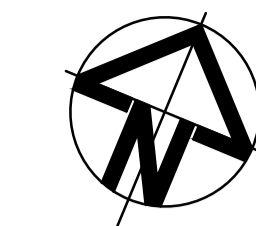


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

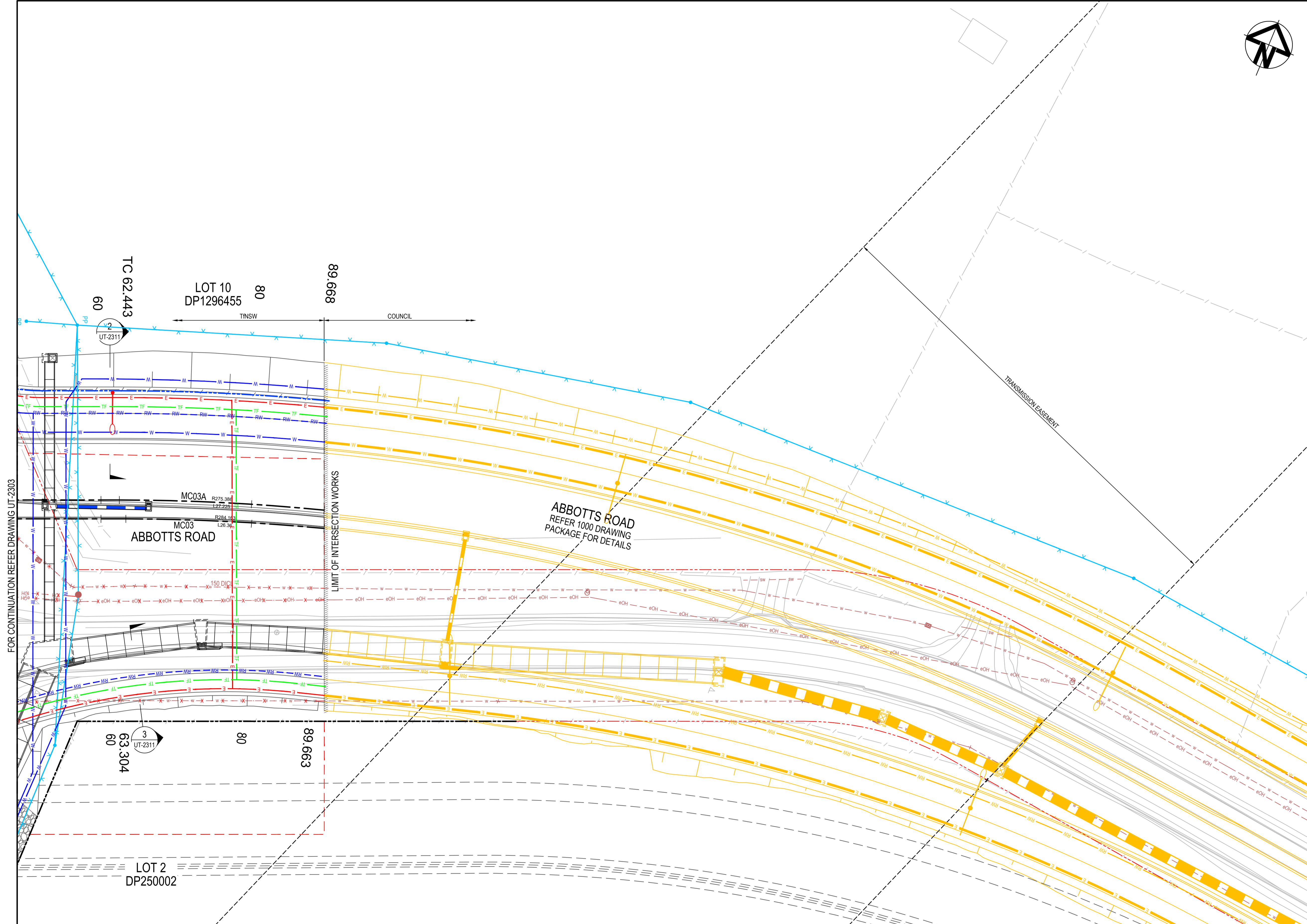
Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	UTILITIES PLAN SHEET 7

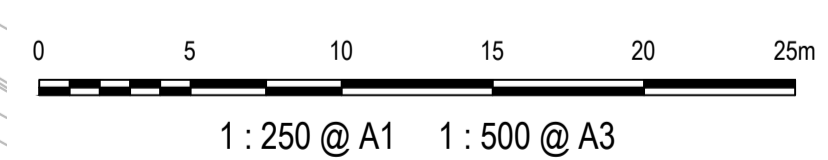
Civil Engineers and Project Managers	<p>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au</p>
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	UT-2307
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	---
EXISTING SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER SERVICE	---
FORMATTER	---
PROPOSED SERVICES	
ELECTRICITY	---
ELECTRICITY OVERHEAD	---
TELSTRA FIBRE	---
COMMUNICATIONS NBN	---
COMMUNICATIONS PIT	---
COMMUNICATIONS OVERHEAD	---
WATER	---
DISUSED SERVICE	---
LIGHT POLE	---
UTILITY POLE	---
SIGNAL POST	---
TEMPORARY SERVICES	
ELECTRICITY OVERHEAD	---
COMMUNICATIONS OVERHEAD	---
WATER	---
UTILITY POLE	---
FUTURE SERVICES	
FUTURE POTABLE WATER ALLOCATION	---
FUTURE RECYCLED WATER ALLOCATION	---
FUTURE SYDNEY WATER SEWER ALLOCATION	---
FUTURE SYDNEY WATER SEWER RISING MAIN ALLOCATION	---



FOR CONTINUATION REFER DRAWING UT-2303

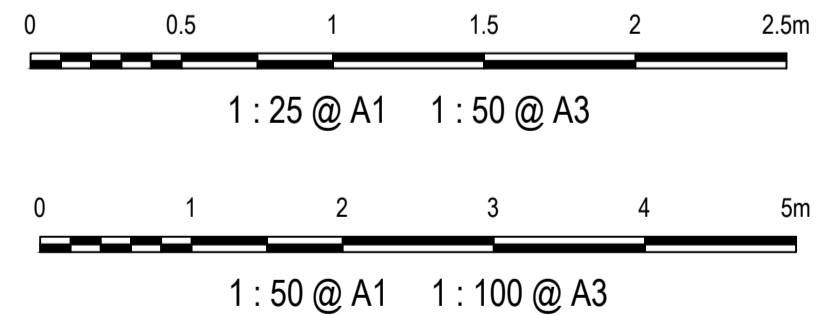
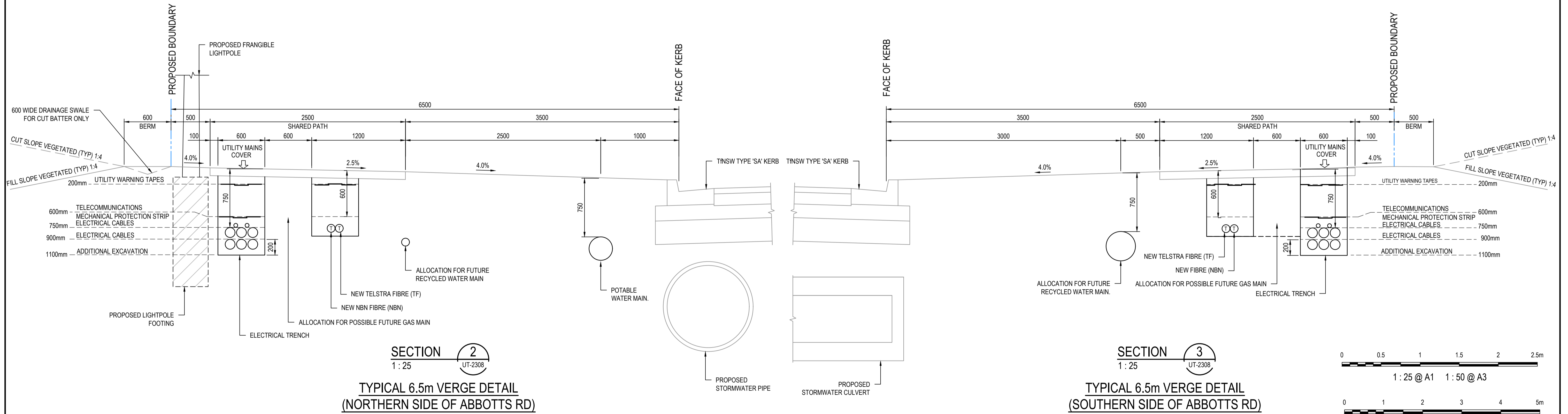
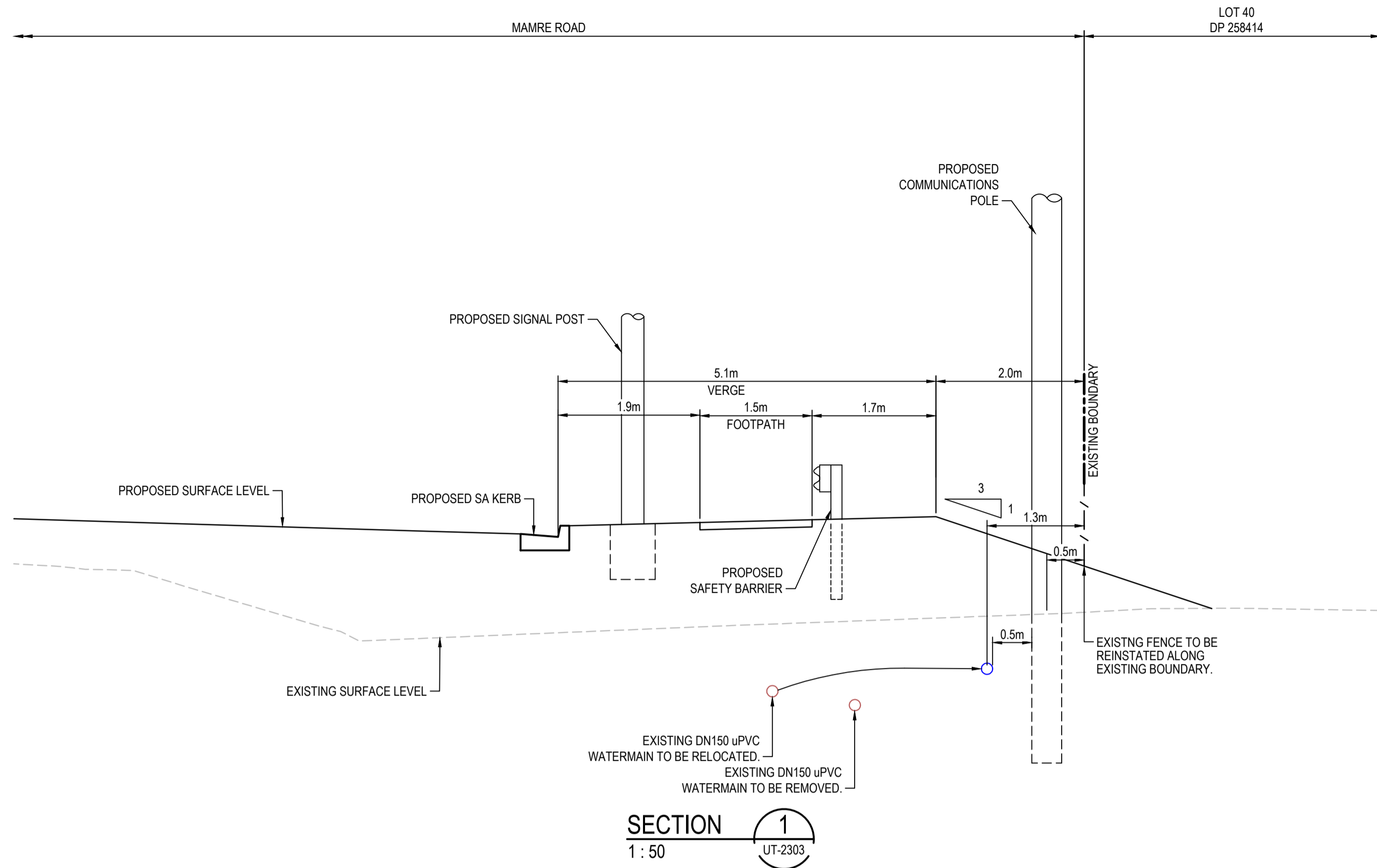


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	UTILITIES PLAN SHEET 8

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	UT-2308
Issue	1



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales

AS SHOWN	Drawn	GB	
	Designed	GB	
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	

TfNSW REGISTRATION No.
DS2000/000000

Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION**

Title
**UTILITIES
TYPICAL SECTIONS
SHEET 1**

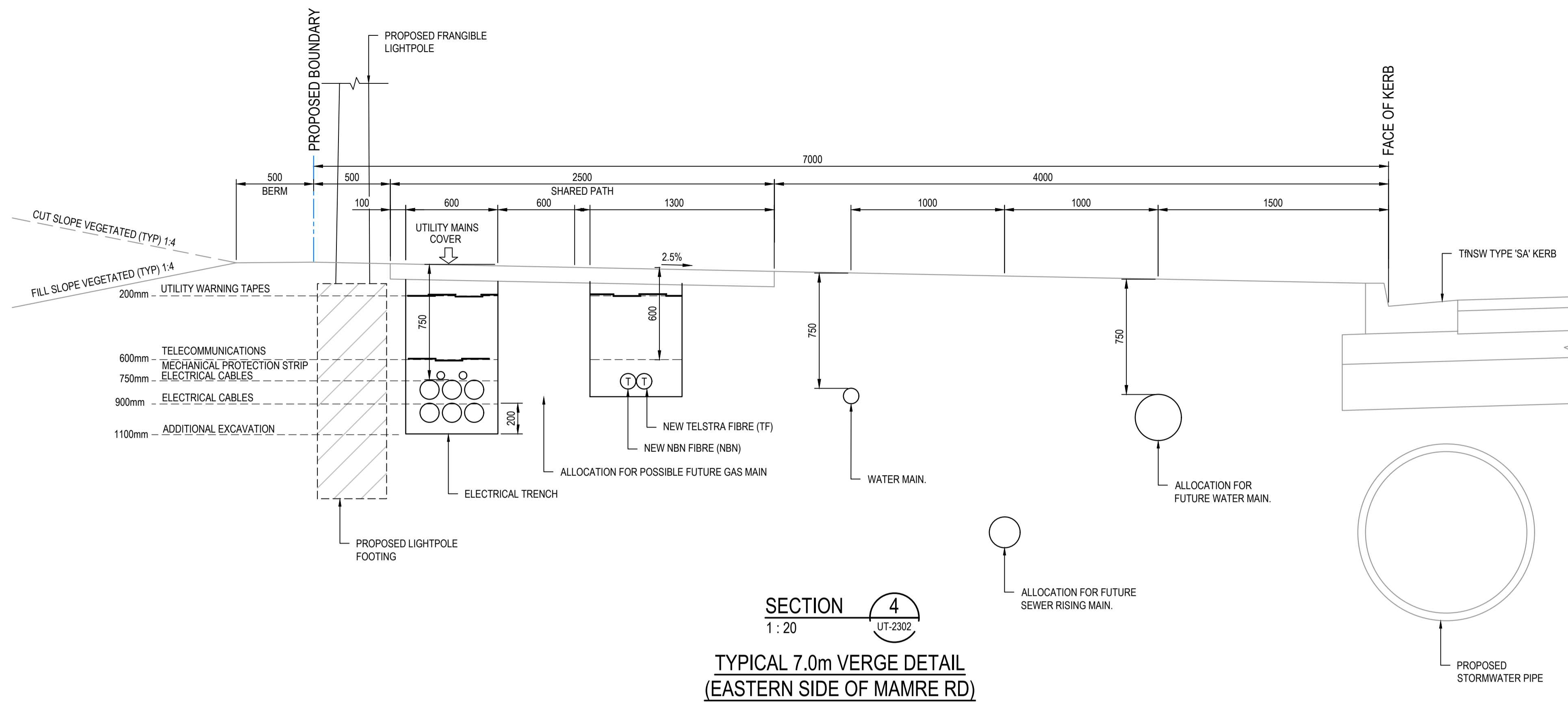
Civil Engineers and Project Managers

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

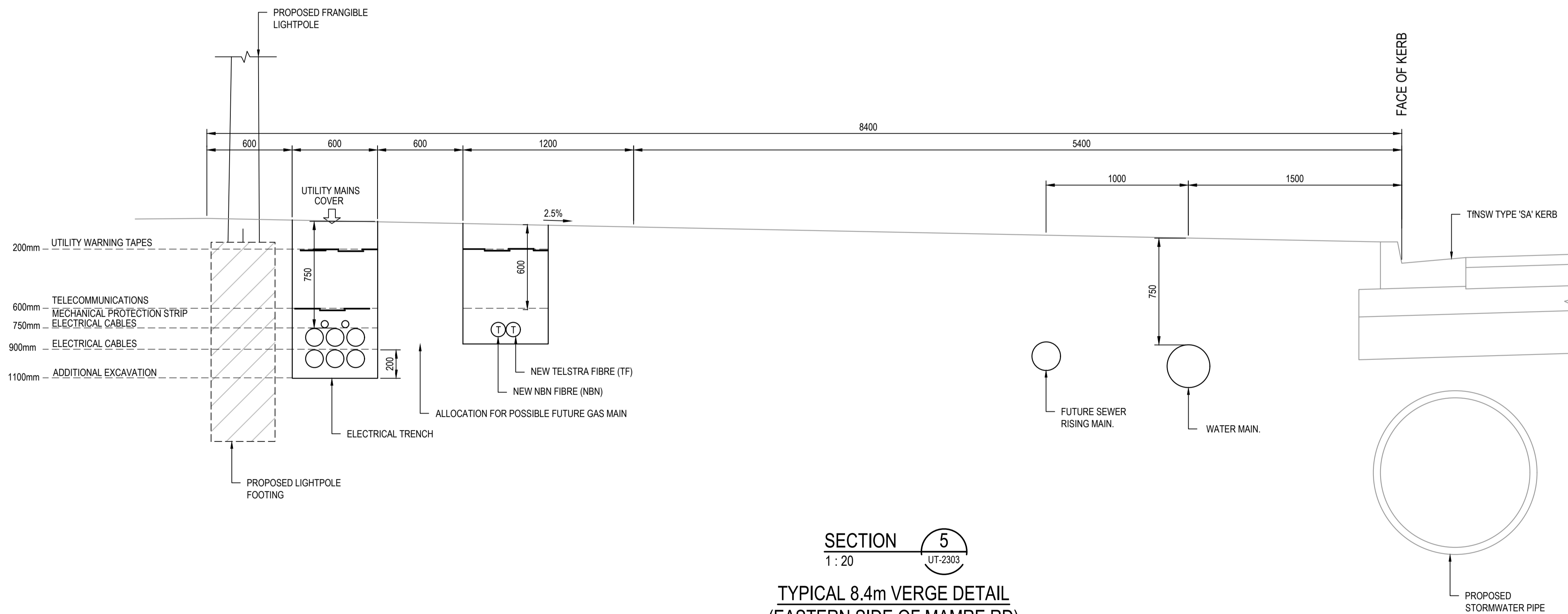
Status
**FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.
UT-2311

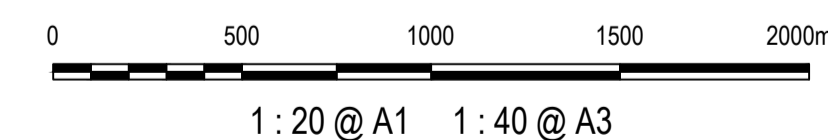
Issue
1



SECTION 4
1:20 UT-2302
TYPICAL 7.0m VERGE DETAIL
(EASTERN SIDE OF MAMRE RD)



SECTION 5
1:20 UT-2303
TYPICAL 8.4m VERGE DETAIL
(EASTERN SIDE OF MAMRE RD)



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	FRASERS PROPERTY ESR Stockland FIFECAPITAL
Scales	AS SHOWN
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	UTILITIES TYPICAL SECTIONS SHEET 2
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
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	UT-2312
Issue	1

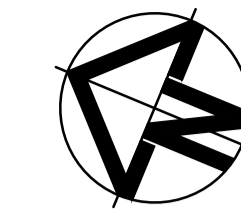
LOT 8
DP253503

LOT 10
DP1296455

LOT 38
DP258414

LOT 39
DP258414

MAMRE ROAD



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED DRAINAGE SWALE	
PROPOSED FENCE	
STORMWATER PIT	
STORMWATER HEADWALL	
STORMWATER PIPE	
STORMWATER PIT REFERENCE NUMBER	
EXISTING STORMWATER TO BE REMOVED	
SCOUR PROTECTION	

FOR CONTINUATION REFER DRAWING SM-2402



1 : 250 @ A1 1 : 500 @ A3

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TFNSW REGISTRATION No.	DS2000/000000	Approved	

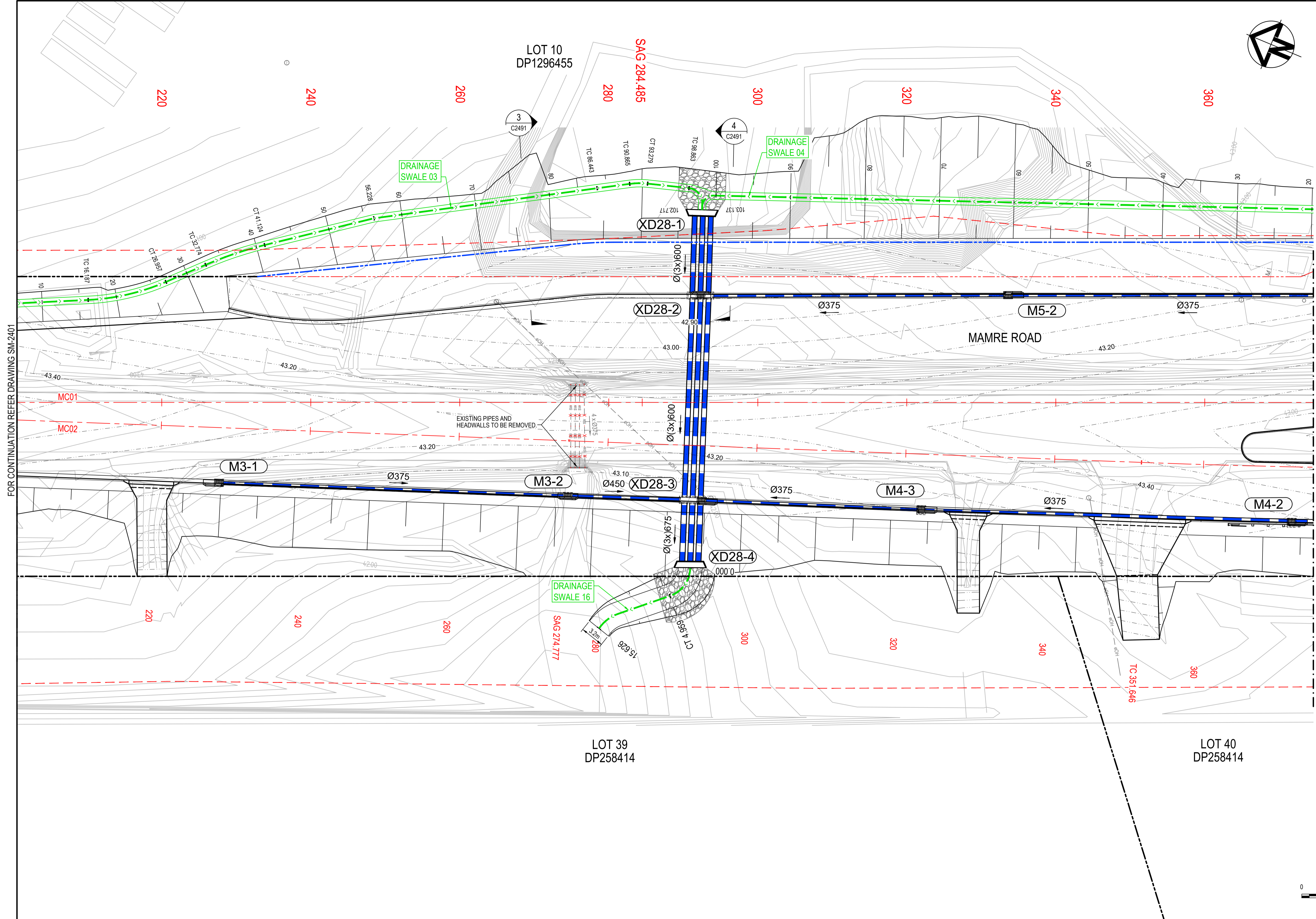
Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**STORMWATER
MANAGEMENT
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

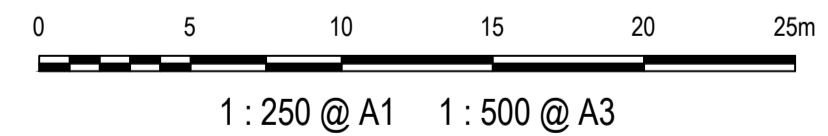
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	SM-2401	Issue
		1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - -
EXISTING EASEMENT	- - - - -
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - -
EXISTING CONTOUR	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.00
PROPOSED DRAINAGE SWALE	---
PROPOSED FENCE	---
STORMWATER PIT	⊞
STORMWATER HEADWALL	⊞
STORMWATER PIPE	---
STORMWATER PIT REFERENCE NUMBER	A-1
EXISTING STORMWATER TO BE REMOVED	- x - x -
SCOUR PROTECTION	⊞

FOR CONTINUATION REFER DRAWING SM-2401

FOR CONTINUATION REFER DRAWING SM-2403

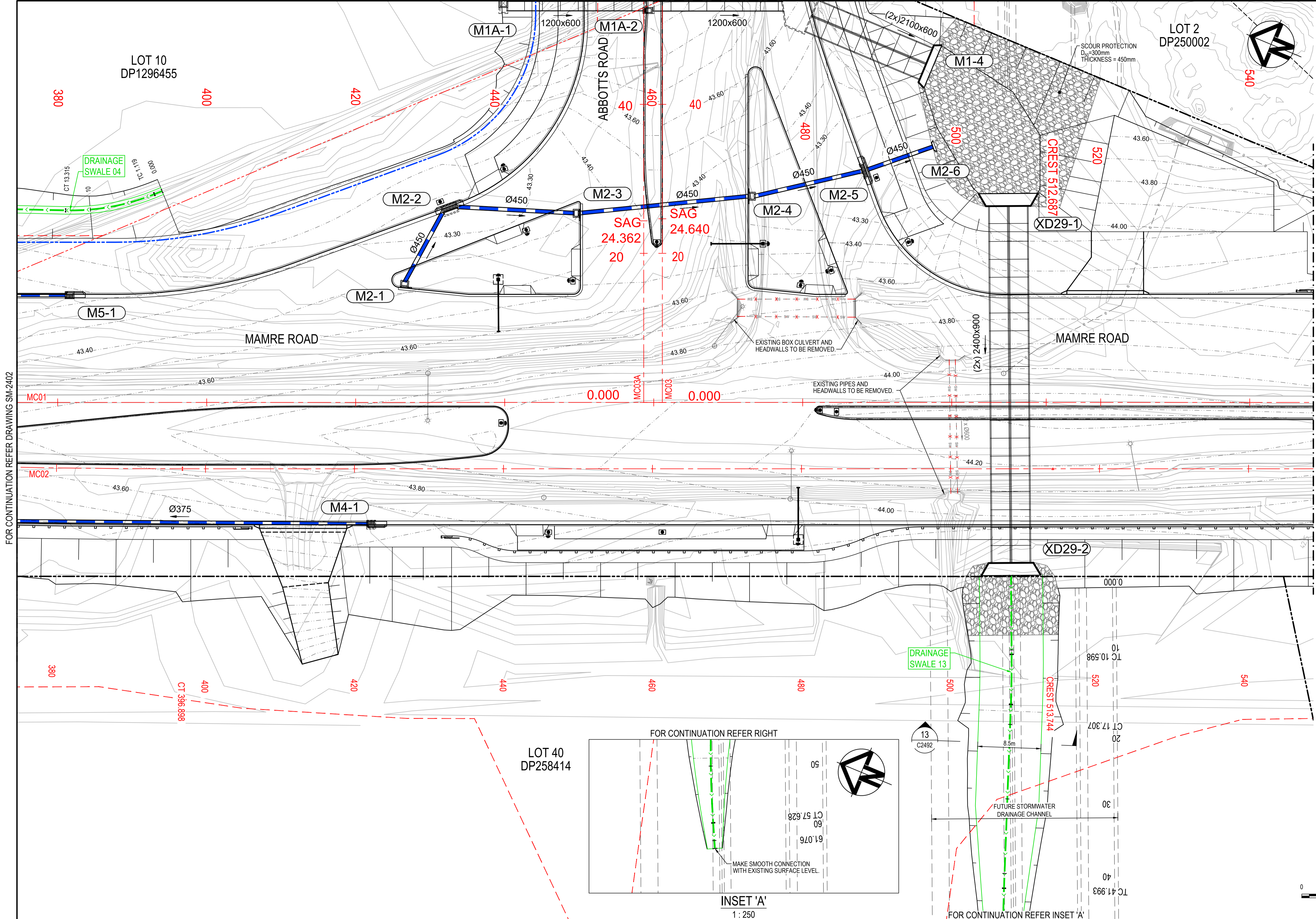


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Designed	GB	
Checked	AL	
Approved		Title STORMWATER MANAGEMENT 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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2402
Issue	1

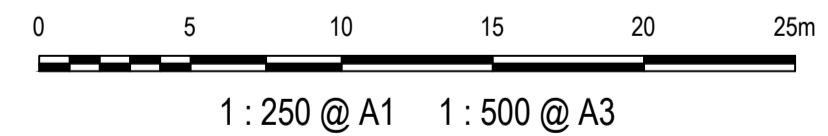
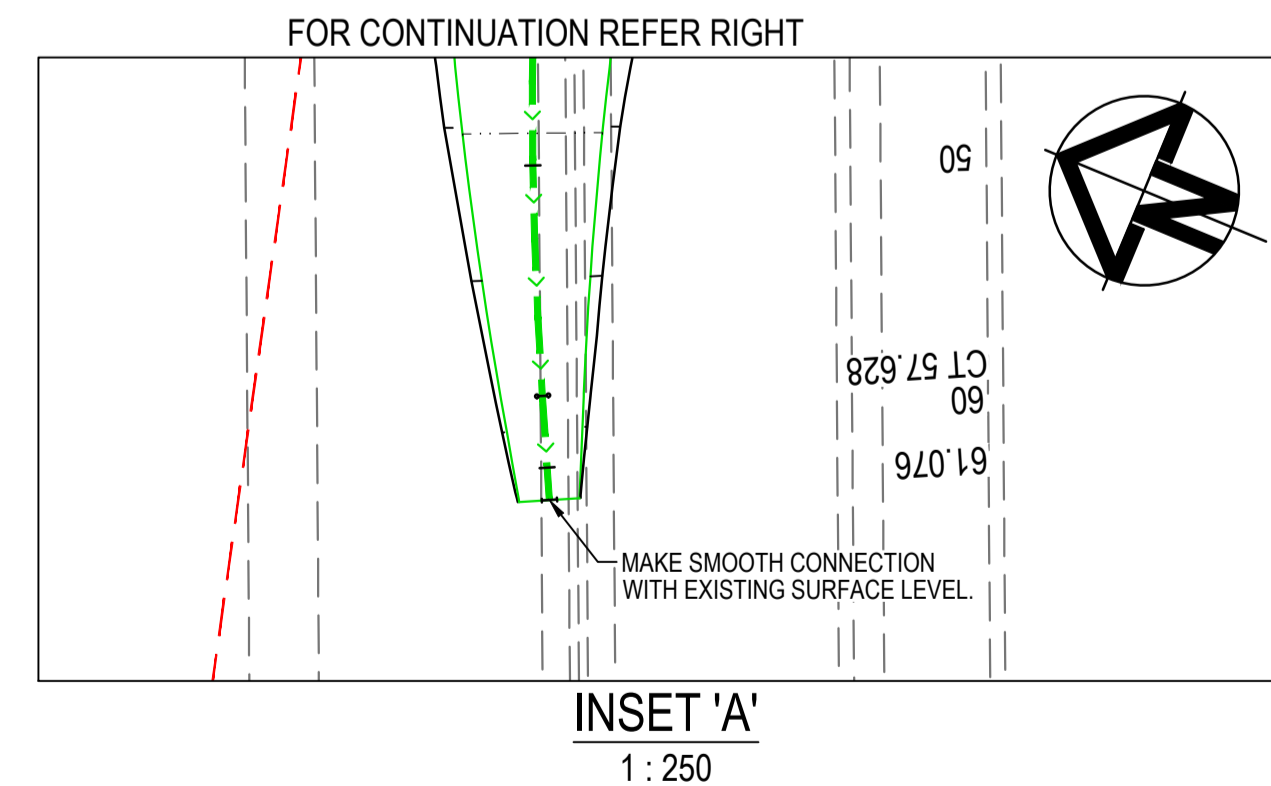


LEGEND

- EXISTING BOUNDARY: - - - - -
- EXISTING BOUNDARY TO BE REMOVED: - . - . -
- EXISTING EASEMENT: - - - - -
- PROPOSED BOUNDARY: - - - - -
- SP2 BOUNDARY: - . - . -
- EXISTING CONTOUR: 43.00
- PROPOSED CONTOUR (MAJOR): 43.00
- PROPOSED CONTOUR (MINOR): 43.00
- PROPOSED DRAINAGE SWALE: > >
- PROPOSED FENCE: - / - / -
- STORMWATER PIT: [Symbol]
- STORMWATER HEADWALL: [Symbol]
- STORMWATER PIPE: [Symbol]
- STORMWATER PIT REFERENCE NUMBER: A-1
- EXISTING STORMWATER TO BE REMOVED: - x - x -
- SCOUR PROTECTION: [Symbol]

FOR CONTINUATION REFER DRAWING SM-2402

FOR CONTINUATION REFER DRAWING SM-2404



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1:250 @ A1

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
STORMWATER MANAGEMENT PLAN SHEET 3

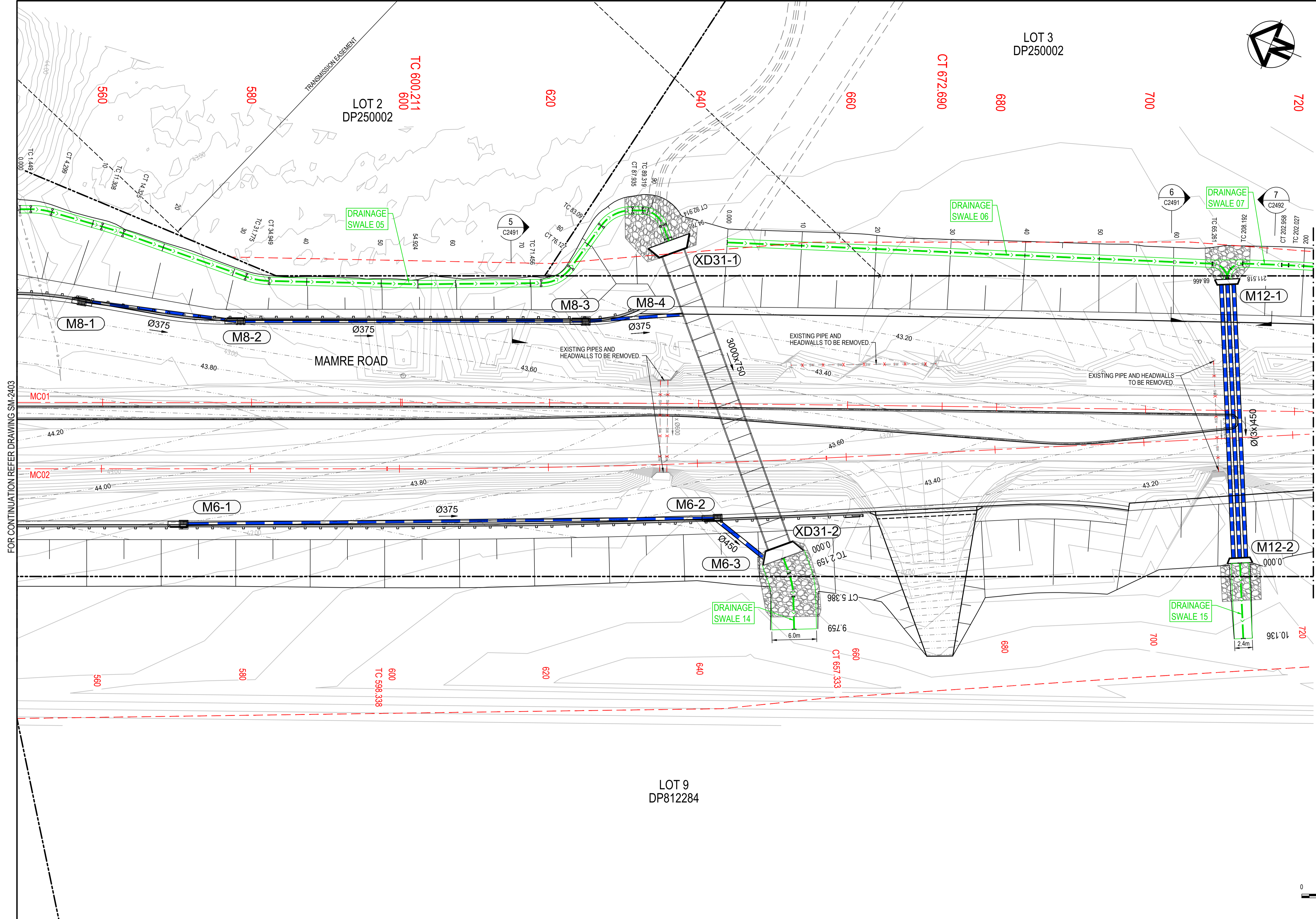
Civil Engineers and Project Managers

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
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Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
SM-2403

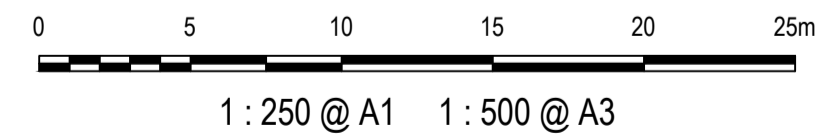
Issue
1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	- - - -
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
EXISTING CONTOUR	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.00
PROPOSED DRAINAGE SWALE	→ → →
PROPOSED FENCE	- / - / -
STORMWATER PIT	[Symbol]
STORMWATER HEADWALL	[Symbol]
STORMWATER PIPE	—
STORMWATER PIT REFERENCE NUMBER	A-1
EXISTING STORMWATER TO BE REMOVED	- x - x -
SCOUR PROTECTION	[Symbol]

FOR CONTINUATION REFER DRAWING SM-2403

FOR CONTINUATION REFER DRAWING SM-2405



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

LOT 9
DP812284

Client

Drawn	GB
Designed	GB
Checked	AL
Approved	
Title	
DS2000/000000	

Project

**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION**

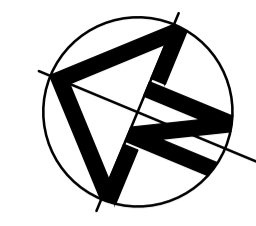
Title

**STORMWATER MANAGEMENT PLAN
SHEET 4**

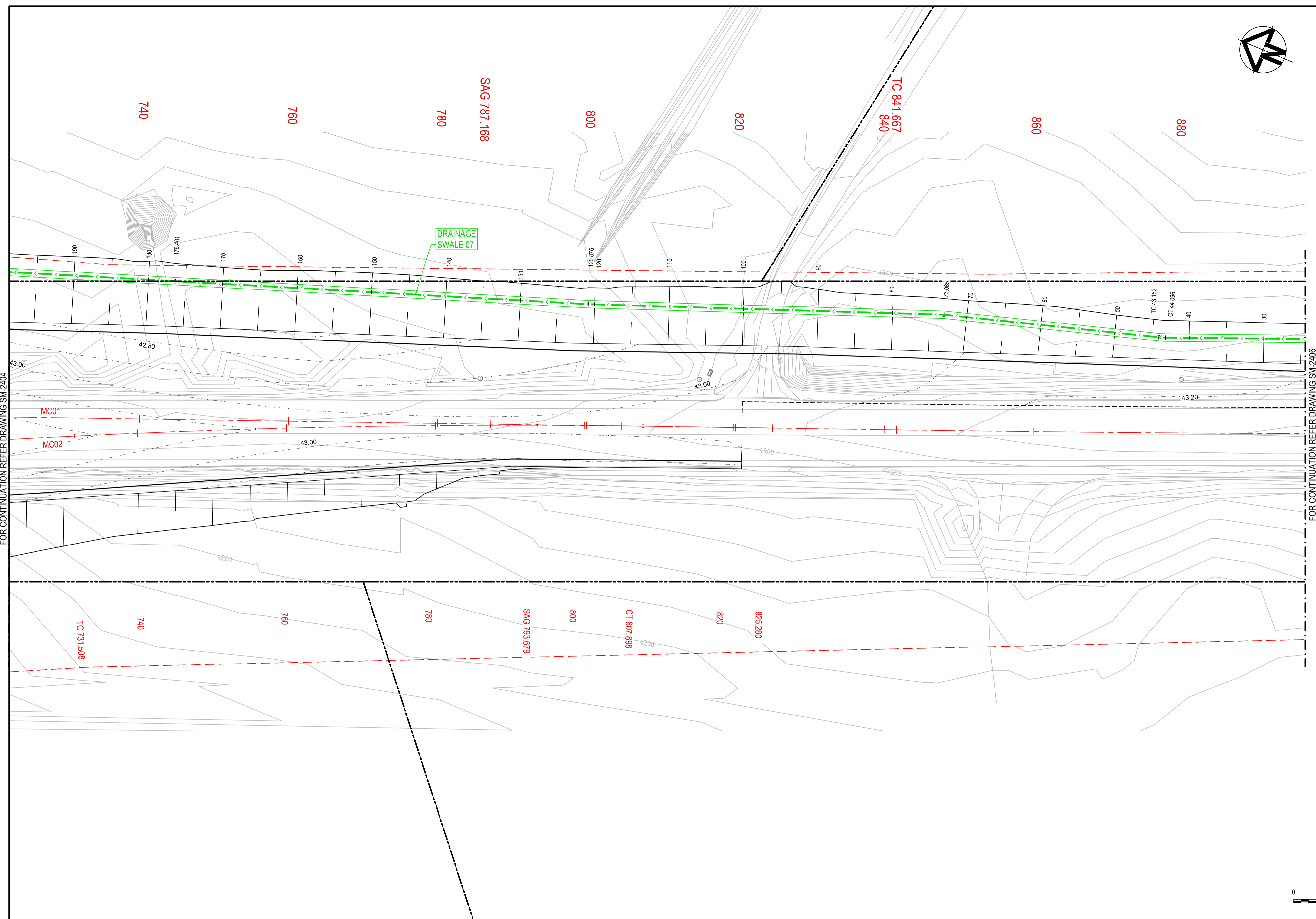
Civil Engineers and Project Managers

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	SM-2404	Issue
		1

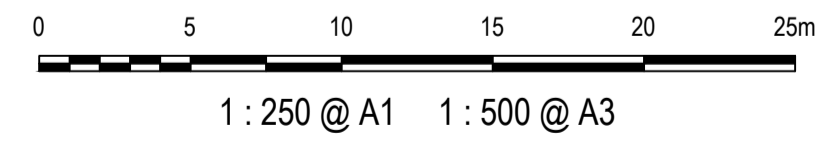


LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED DRAINAGE SWALE	
PROPOSED FENCE	
STORMWATER PIT	
STORMWATER HEADWALL	
STORMWATER PIPE	
STORMWATER PIT REFERENCE NUMBER	
EXISTING STORMWATER TO BE REMOVED	
SCOUR PROTECTION	



FOR CONTINUATION REFER DRAWING SM-2404

FOR CONTINUATION REFER DRAWING SM-2406



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

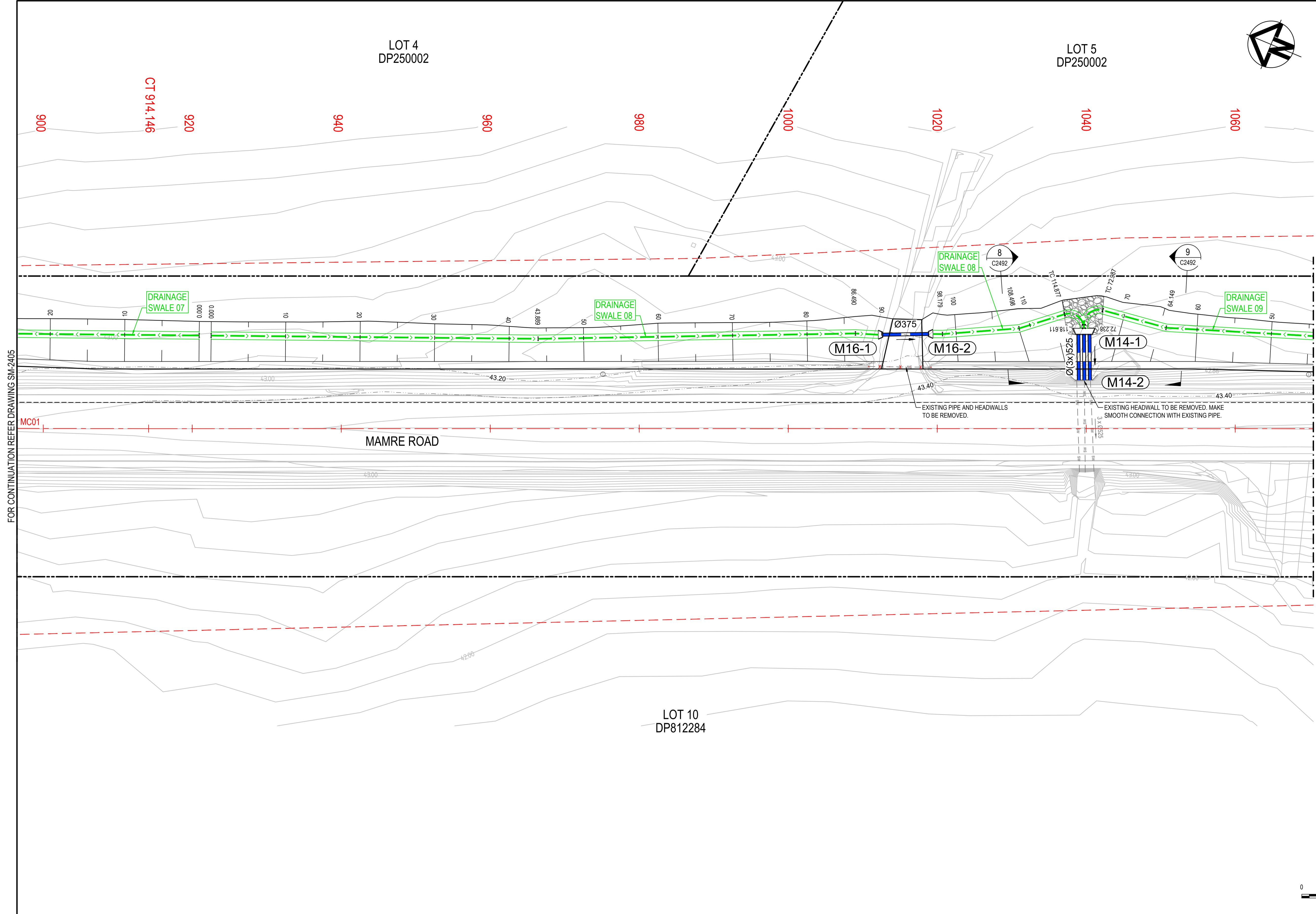
Client	

Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER MANAGEMENT PLAN SHEET 5

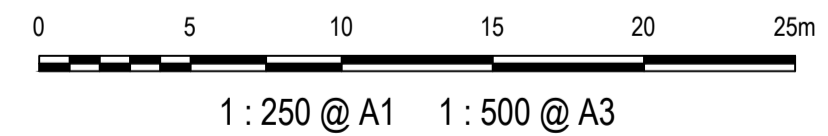
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2405
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
EXISTING CONTOUR	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	43.00
PROPOSED DRAINAGE SWALE	→ → →
PROPOSED FENCE	- / - / -
STORMWATER PIT	⊞
STORMWATER HEADWALL	⊞
STORMWATER PIPE	—
STORMWATER PIT REFERENCE NUMBER	A-1
EXISTING STORMWATER TO BE REMOVED	- x - x -
SCOUR PROTECTION	⊞

FOR CONTINUATION REFER DRAWING SM-2405

FOR CONTINUATION REFER DRAWING SM-2407



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

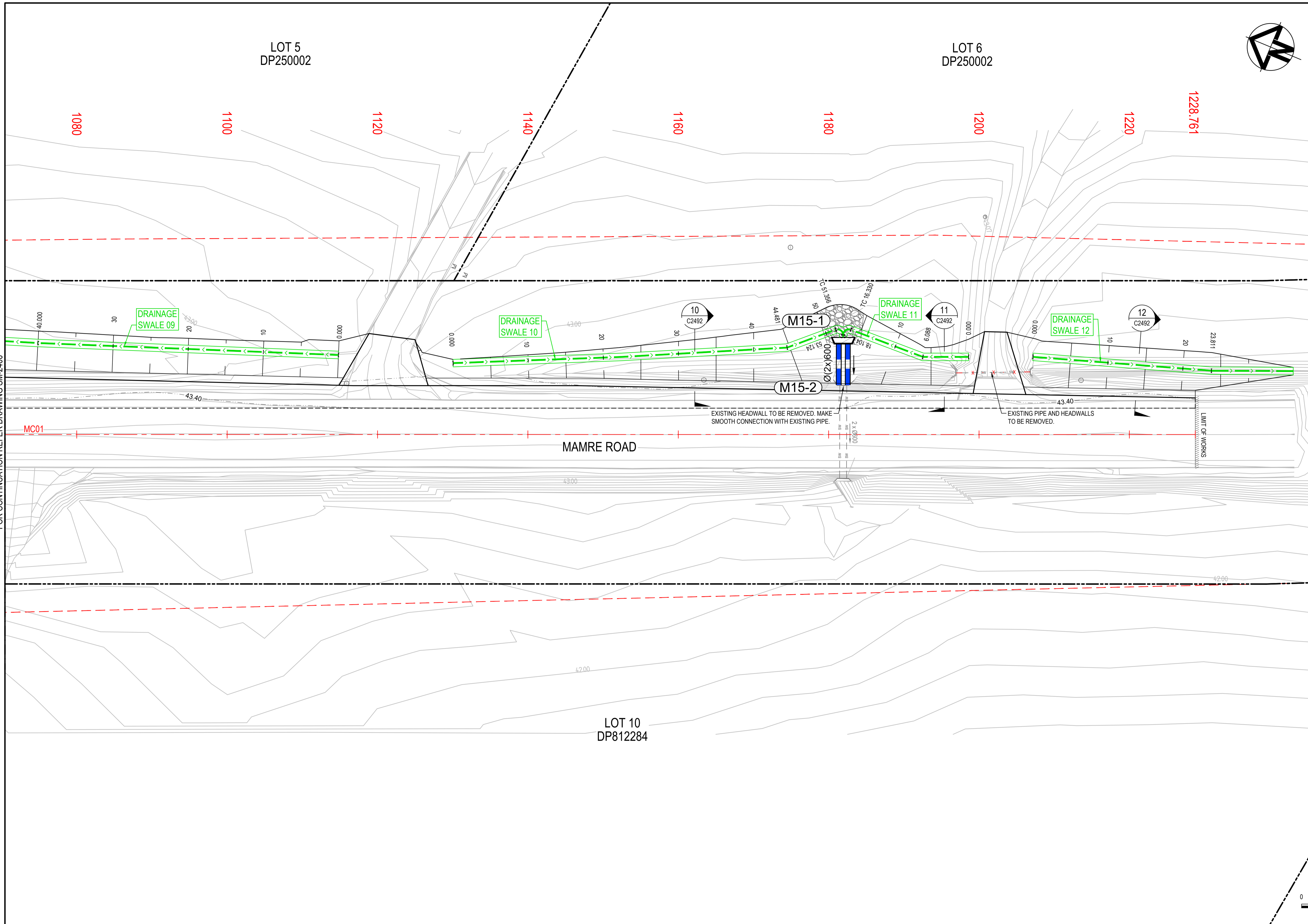
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

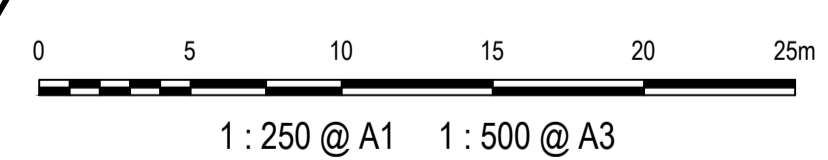
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER MANAGEMENT PLAN SHEET 6

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2406
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
EXISTING CONTOUR	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	---
PROPOSED DRAINAGE SWALE	→ → →
PROPOSED FENCE	- / - / -
STORMWATER PIT	⊞
STORMWATER HEADWALL	⊞
STORMWATER PIPE	---
STORMWATER PIT REFERENCE NUMBER	A-1
EXISTING STORMWATER TO BE REMOVED	- x - x -
SCOUR PROTECTION	⊞

FOR CONTINUATION REFER DRAWING SM-2406



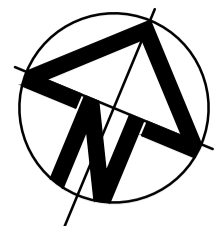
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

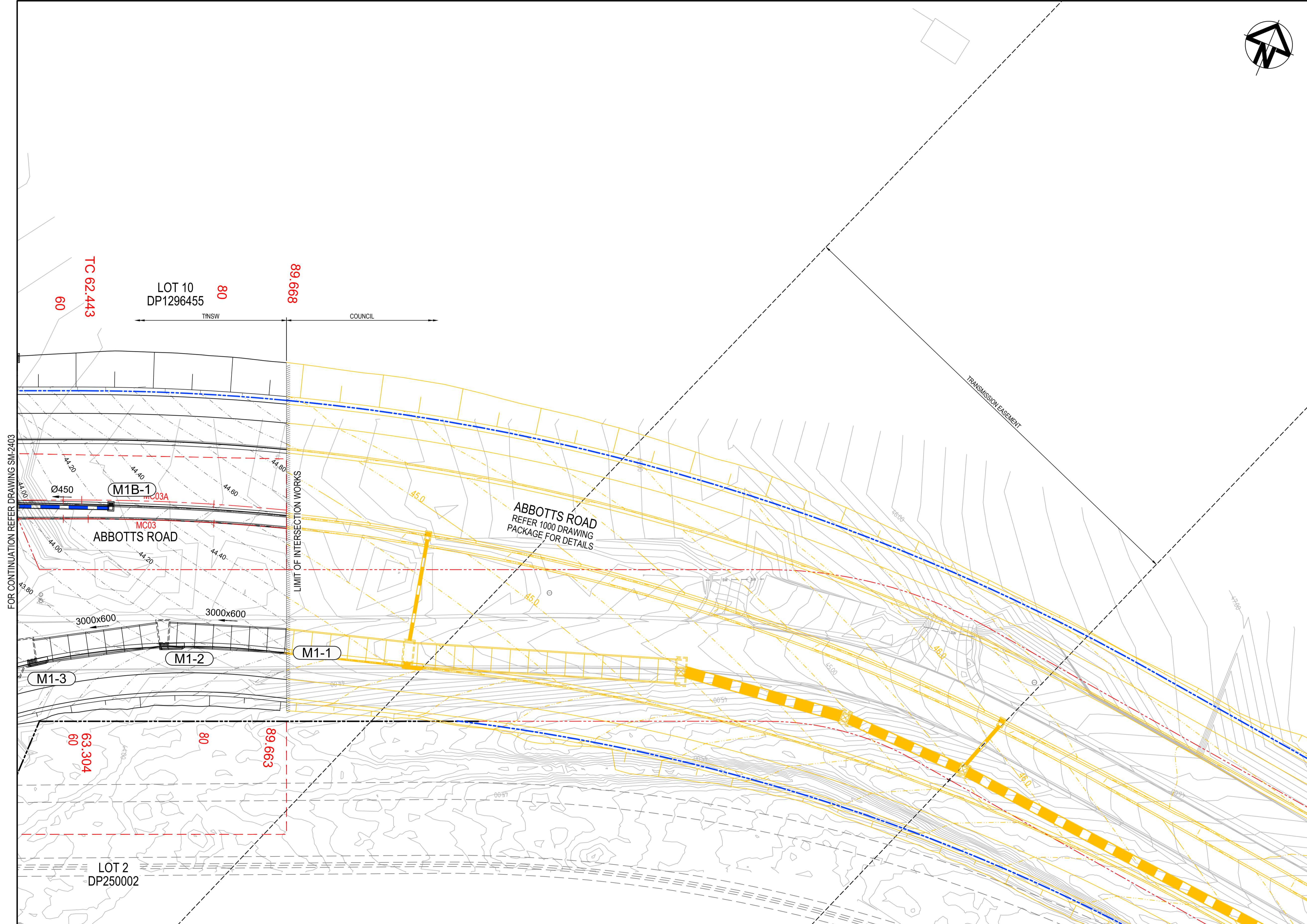
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER MANAGEMENT PLAN SHEET 7

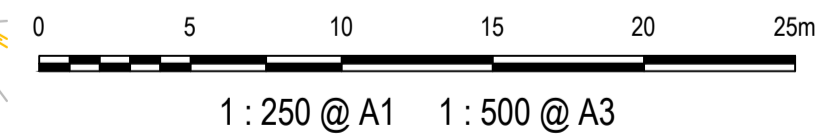
Civil Engineers and Project Managers	 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	SM-2407
Issue	1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
EXISTING CONTOUR	43.00
PROPOSED CONTOUR (MAJOR)	43.00
PROPOSED CONTOUR (MINOR)	---
PROPOSED DRAINAGE SWALE	→ → →
PROPOSED FENCE	- / - / -
STORMWATER PIT	
STORMWATER HEADWALL	
STORMWATER PIPE	---
STORMWATER PIT REFERENCE NUMBER	A-1
EXISTING STORMWATER TO BE REMOVED	- x - x -
SCOUR PROTECTION	



FOR CONTINUATION REFER DRAWING SM-2403

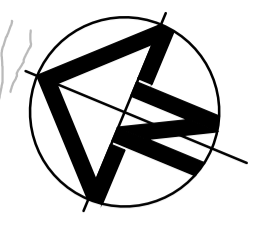
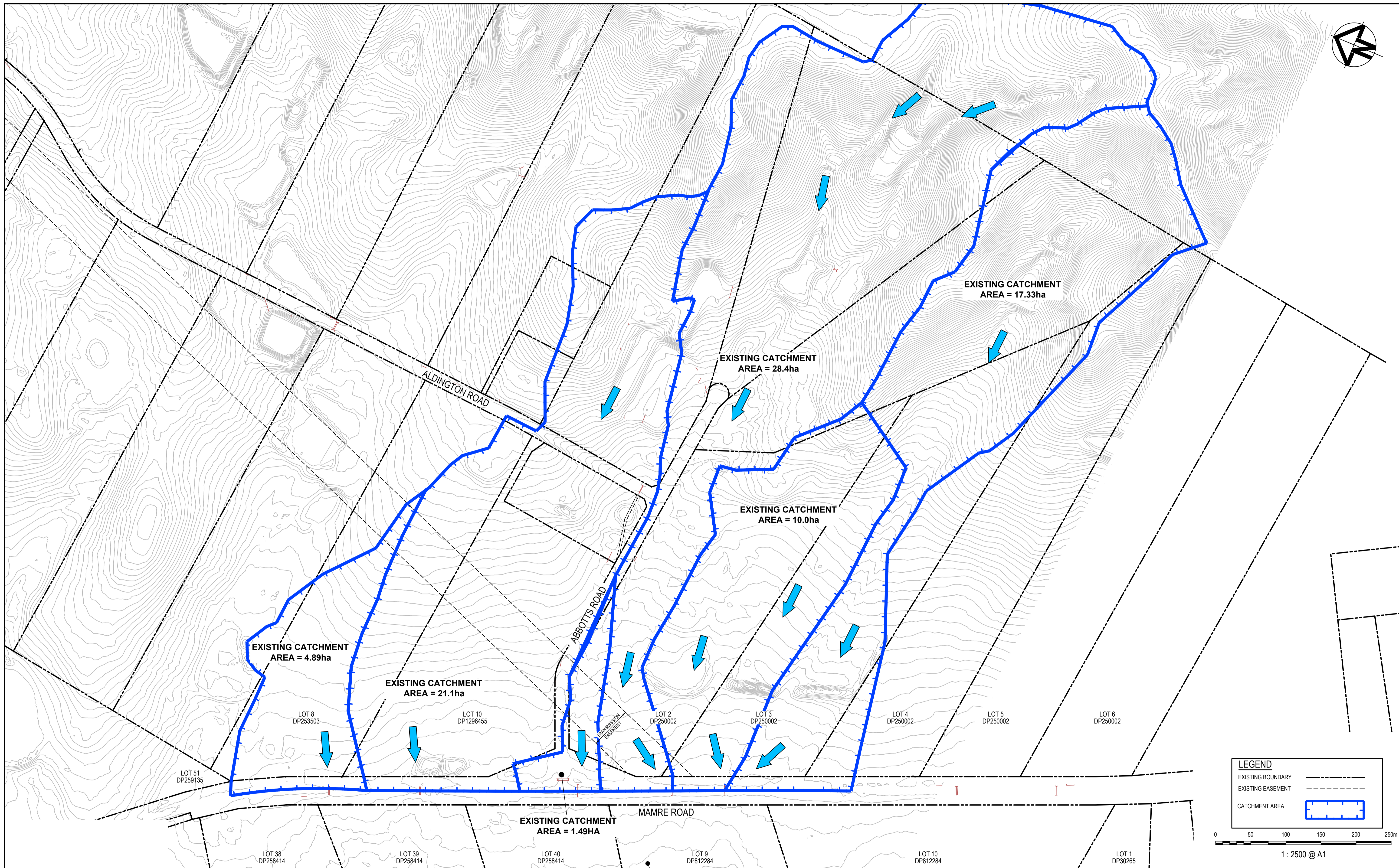


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

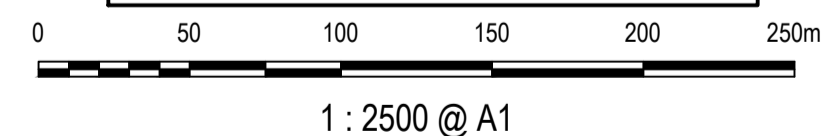
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER MANAGEMENT PLAN SHEET 8

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2408
Issue	1



LEGEND

- EXISTING BOUNDARY
- EXISTING EASEMENT
- CATCHMENT AREA



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 2500 @ A1

Drawn	GB
Designed	GB
Checked	AL
Approved	

Grid GDA2020
Height Datum AHD
TfNSW REGISTRATION No.
DS2000/000000

Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**PRE-DEVELOPED
STORMWATER CATCHMENT
PLAN**

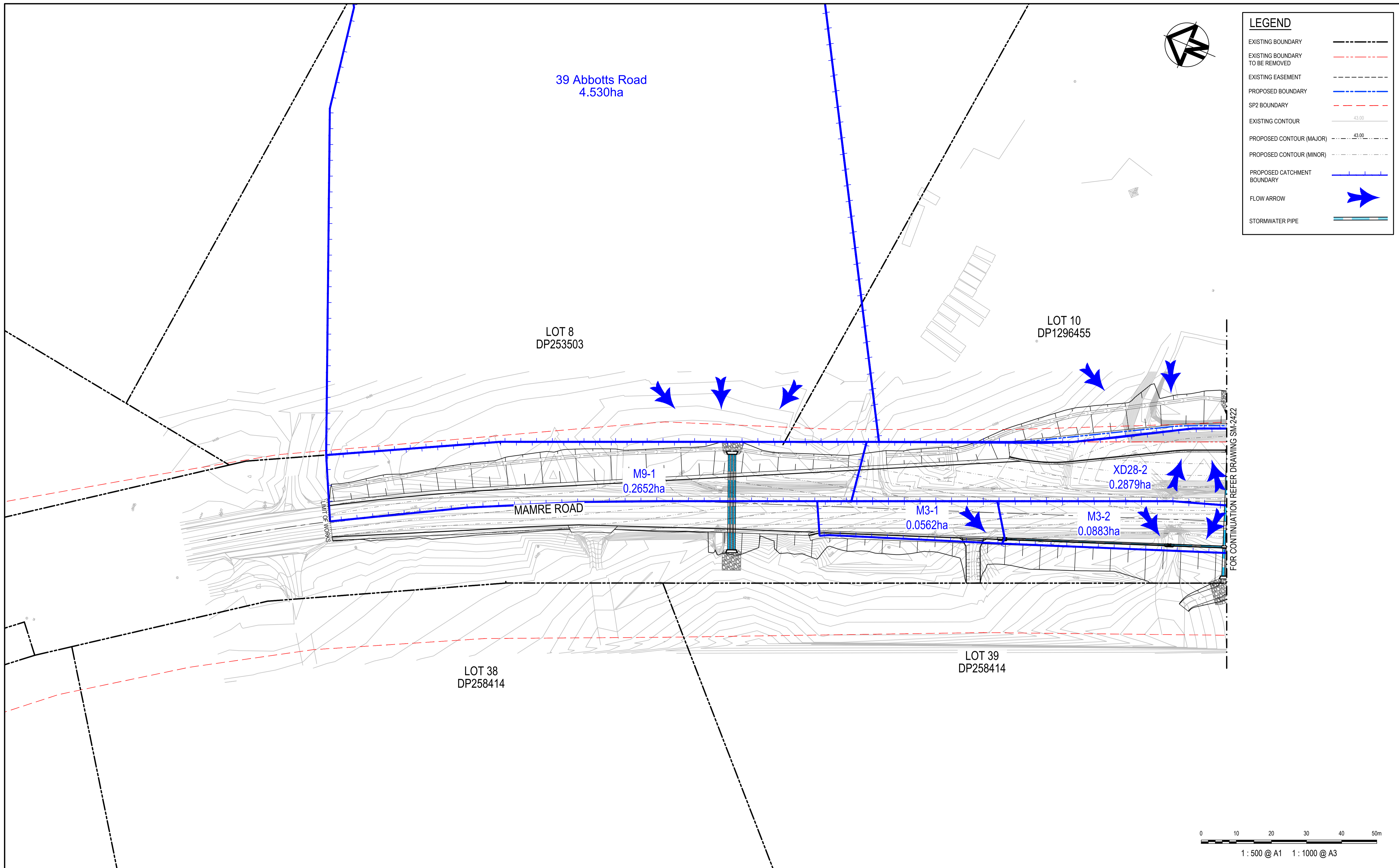
Civil Engineers and Project Managers

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 FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. SM-2411	Issue 1

Scale: 1 : 2500 @ A1

Date Plotted: 3 Nov 2023 - 05:51PM File Name: F:\21-843 Aldington Road Design\6.0 Drgs\Civil\Final\2000_Mamre Rd Abbotts Rd Intersection Design\21-843-06-SH-2411.dwg



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales
1 : 500 @ A1

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Drawn
GB

Designed
GB

Checked
AL

Approved

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
STORMWATER CATCHMENT 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

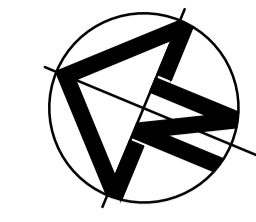
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
SM-2421

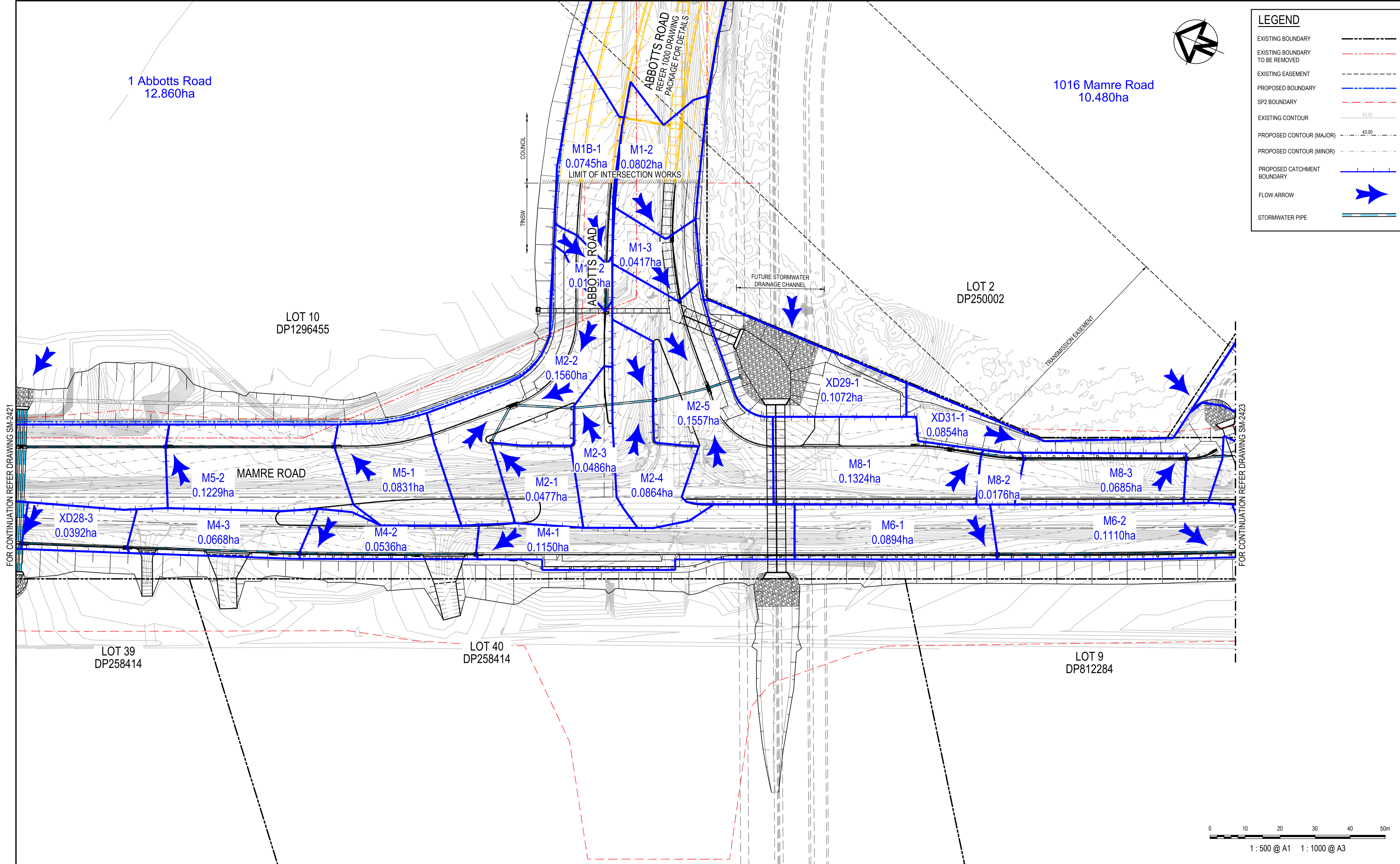
Issue
1

1 Abbots Road
12.860ha

1016 Mamre Road
10.480ha

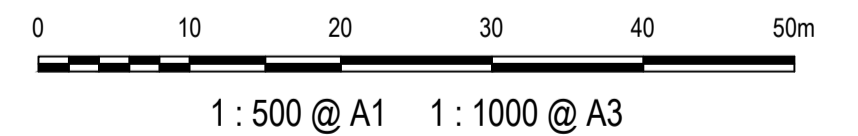


LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED CATCHMENT BOUNDARY	
FLOW ARROW	
STORMWATER PIPE	



FOR CONTINUATION REFER DRAWING SM-2421

FOR CONTINUATION REFER DRAWING SM-2423

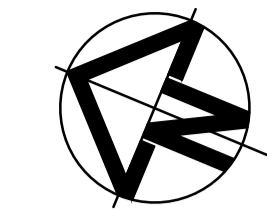


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

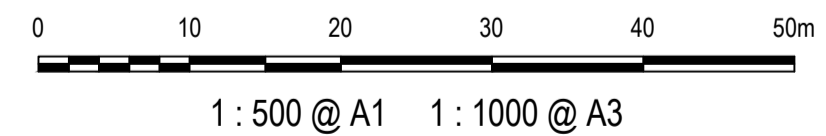
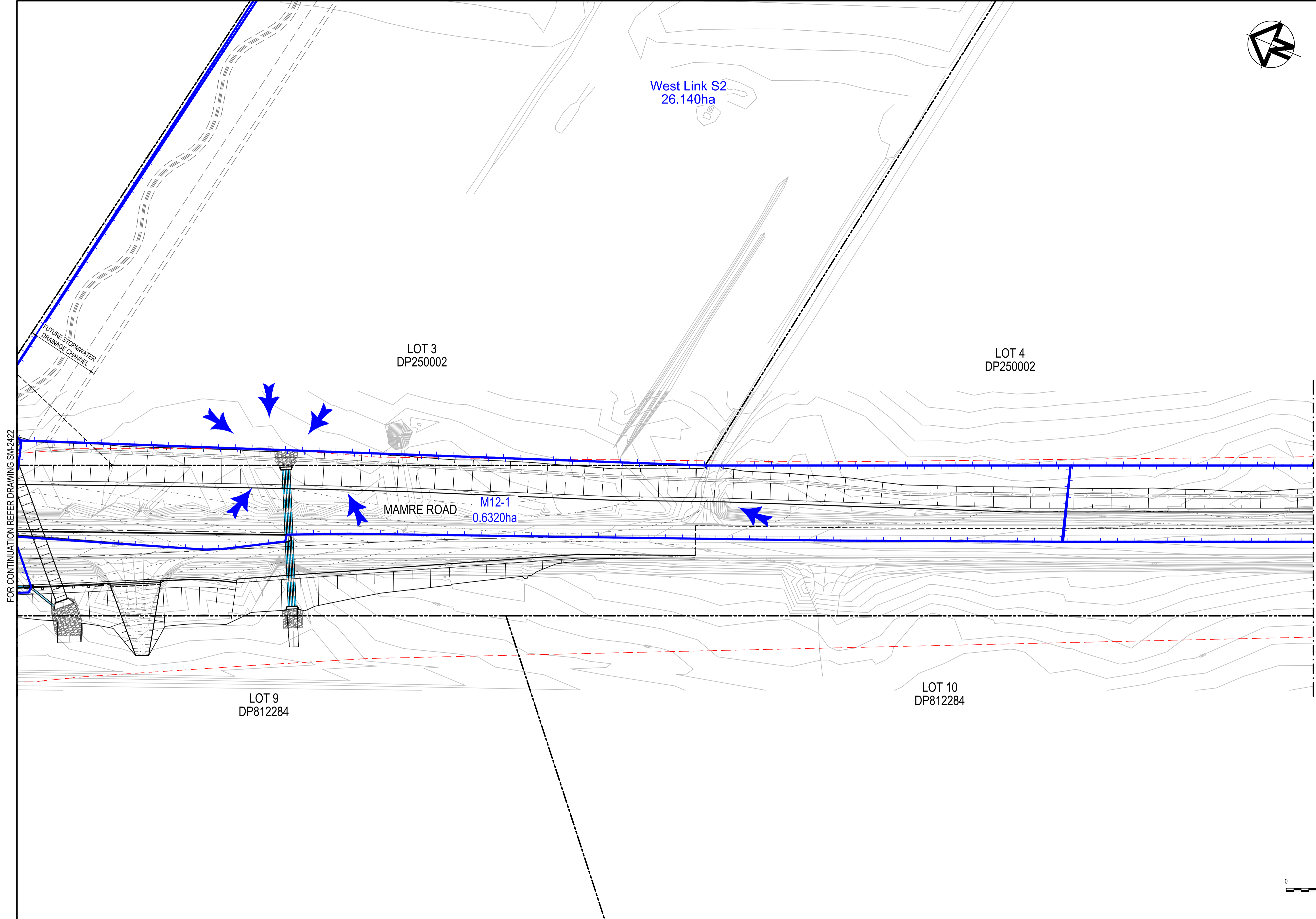
Client	
Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Designed	GB	
Checked	AL	
Approved		Title STORMWATER CATCHMENT PLAN SHEET 2

Civil Engineers and Project Managers	
<p>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</p>	
Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No. SM-2422	Issue 1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED CATCHMENT BOUNDARY	
FLOW ARROW	
STORMWATER PIPE	

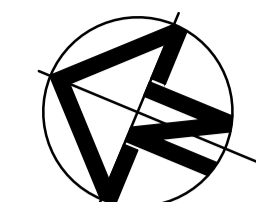


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

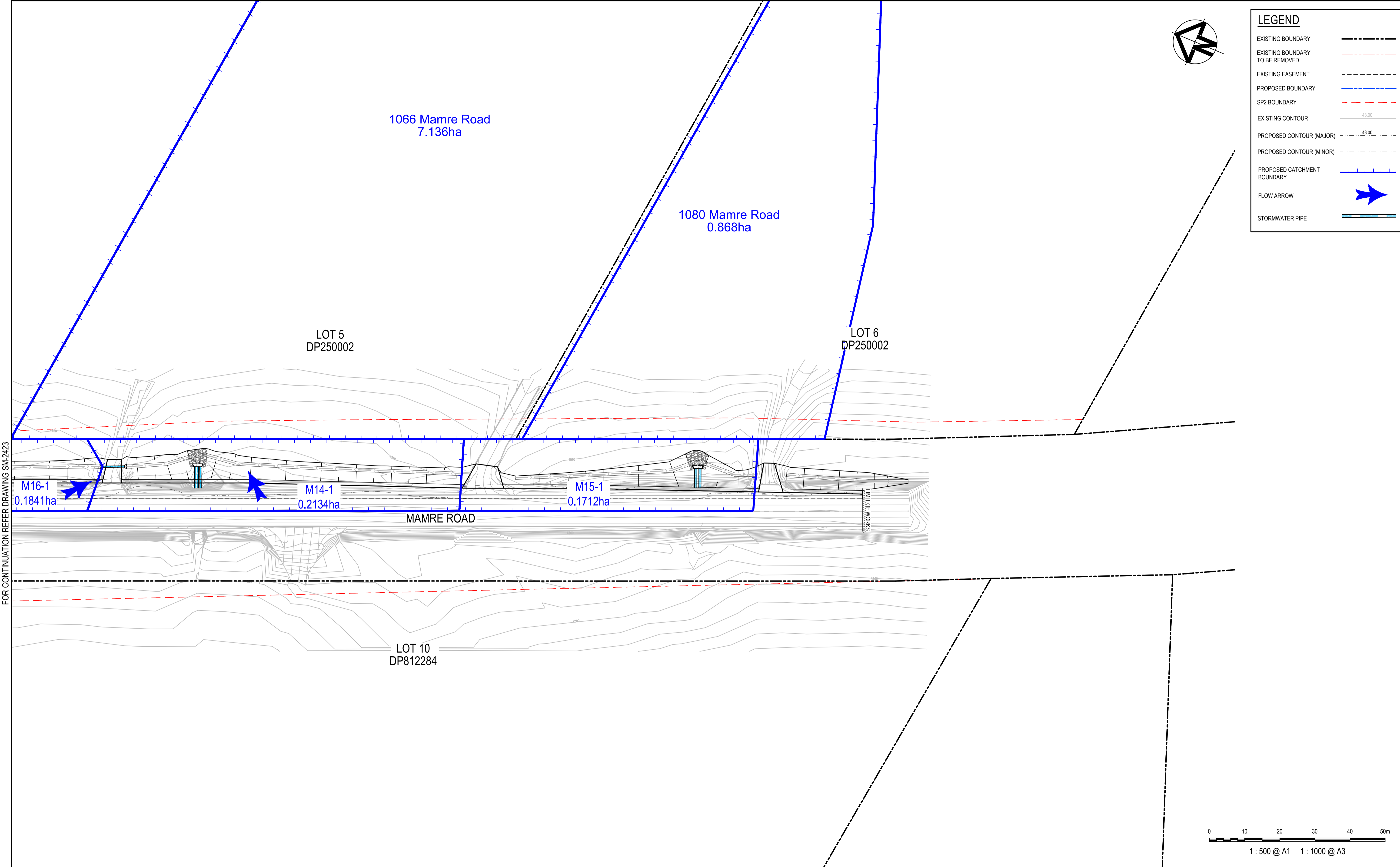
Client	
Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION	
Title STORMWATER CATCHMENT PLAN SHEET 3	

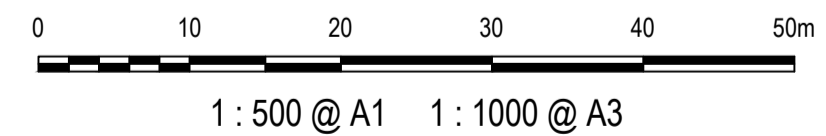
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2423
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED CATCHMENT BOUNDARY	
FLOW ARROW	
STORMWATER PIPE	



FOR CONTINUATION REFER DRAWING SM-2423



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

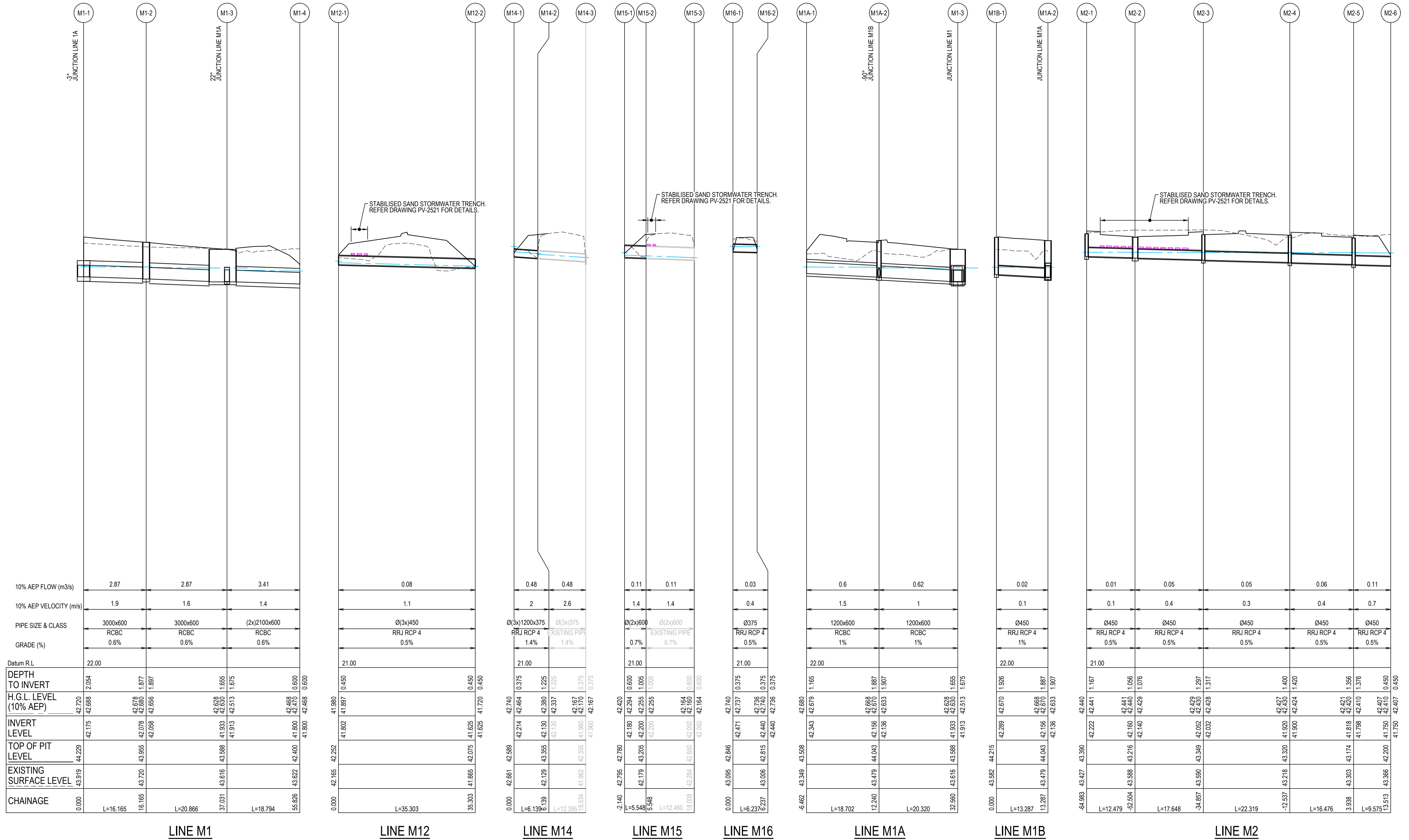
Client	
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Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

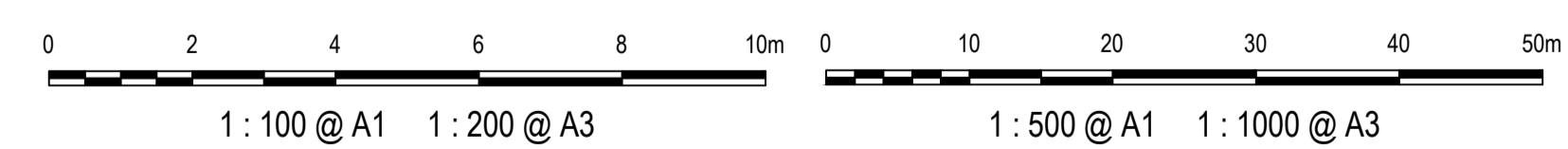
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER CATCHMENT PLAN SHEET 4

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2424
Issue	1

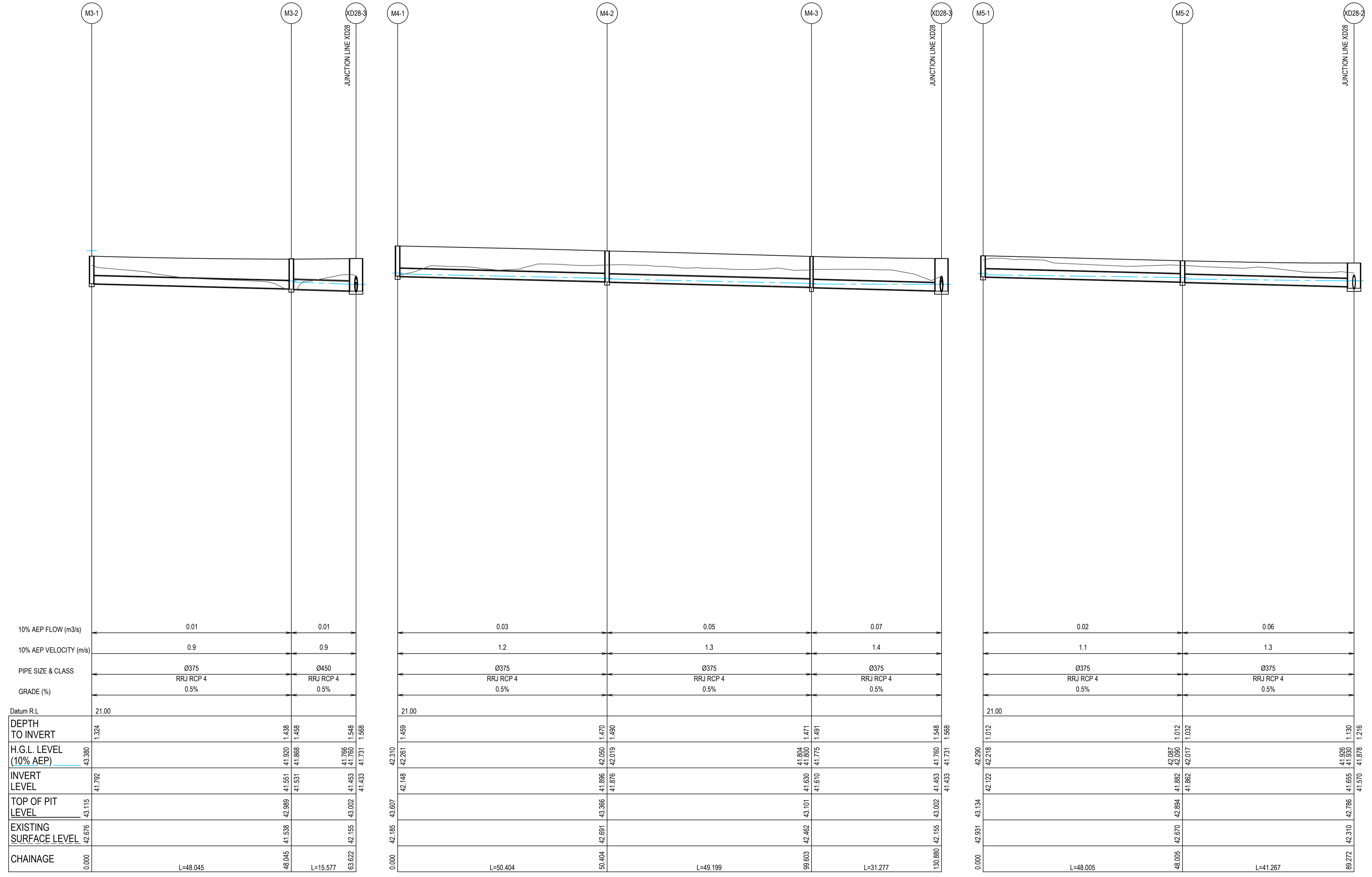


	M1-1	M1-2	M1-3	M1-4	M12-1	M12-2	M14-1	M14-2	M14-3	M15-1	M15-2	M15-3	M16-1	M16-2	M1A-1	M1A-2	M1-3	M1B-1	M1A-2	M2-1	M2-2	M2-3	M2-4	M2-5	M2-6
10% AEP FLOW (m ³ /s)	2.87	2.87	3.41		0.08		0.48	0.48		0.11	0.11		0.03		0.6	0.62		0.02		0.01	0.05	0.05	0.06	0.11	
10% AEP VELOCITY (m/s)	1.9	1.6	1.4		1.1		2	2.6		1.4	1.4		0.4		1.5	1		0.1		0.1	0.4	0.3	0.4	0.7	
PIPE SIZE & CLASS	3000x600 RCBC	3000x600 RCBC	(2)x1200x600 RCBC		Ø(3)x450 RRJ RCP 4		Ø(3)x1200x375 RRJ RCP 4	Ø(3)x375 EXISTING PIPE		Ø(2)x600 EXISTING PIPE	Ø(2)x600 EXISTING PIPE		Ø375 RRJ RCP 4		1200x600 RCBC	1200x600 RCBC		Ø450 RRJ RCP 4		Ø450 RRJ RCP 4	Ø450 RRJ RCP 4	Ø450 RRJ RCP 4	Ø450 RRJ RCP 4	Ø450 RRJ RCP 4	Ø450 RRJ RCP 4
GRADE (%)	0.6%	0.6%	0.6%		0.5%		1.4%	1.4%		0.7%	0.7%		0.5%		1%	1%		1%		0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Datum R.L.	22.00				21.00		21.00			21.00			21.00		22.00			22.00		21.00					
DEPTH TO INVERT	2.054				0.450		0.375			0.600		1.005		0.375			1.926		1.167						
H.G.L. LEVEL (10% AEP)	42.720	42.688	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678	42.680	42.678
INVERT LEVEL	42.175	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078	42.078
TOP OF PIT LEVEL	44.229	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955	43.955
EXISTING SURFACE LEVEL	43.919	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720	43.720
CHAINAGE	0.000	L=16.165				L=35.303				L=6.139	L=12.395		L=5.548	L=12.460			L=13.287			L=12.479	L=17.648				L=9.575



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

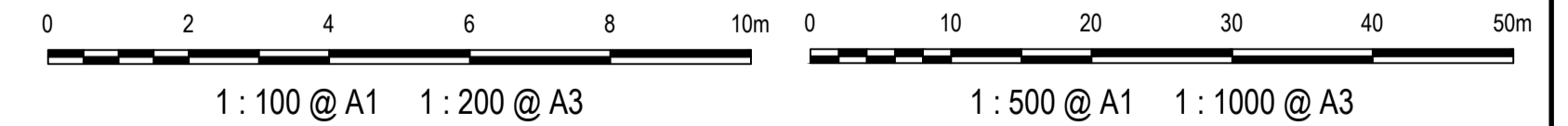
Client	FRASERS PROPERTY, ESR, Stockland, FIFECAPITAL
Scales	1 : 100 @ A1 (V), 1 : 500 @ A1 (H)
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1
Civil Engineers and Project Managers	at&I
Status	FOR APPROVAL
Project - Drawing No.	SM-2431
Issue	1



LINE M3

LINE M4

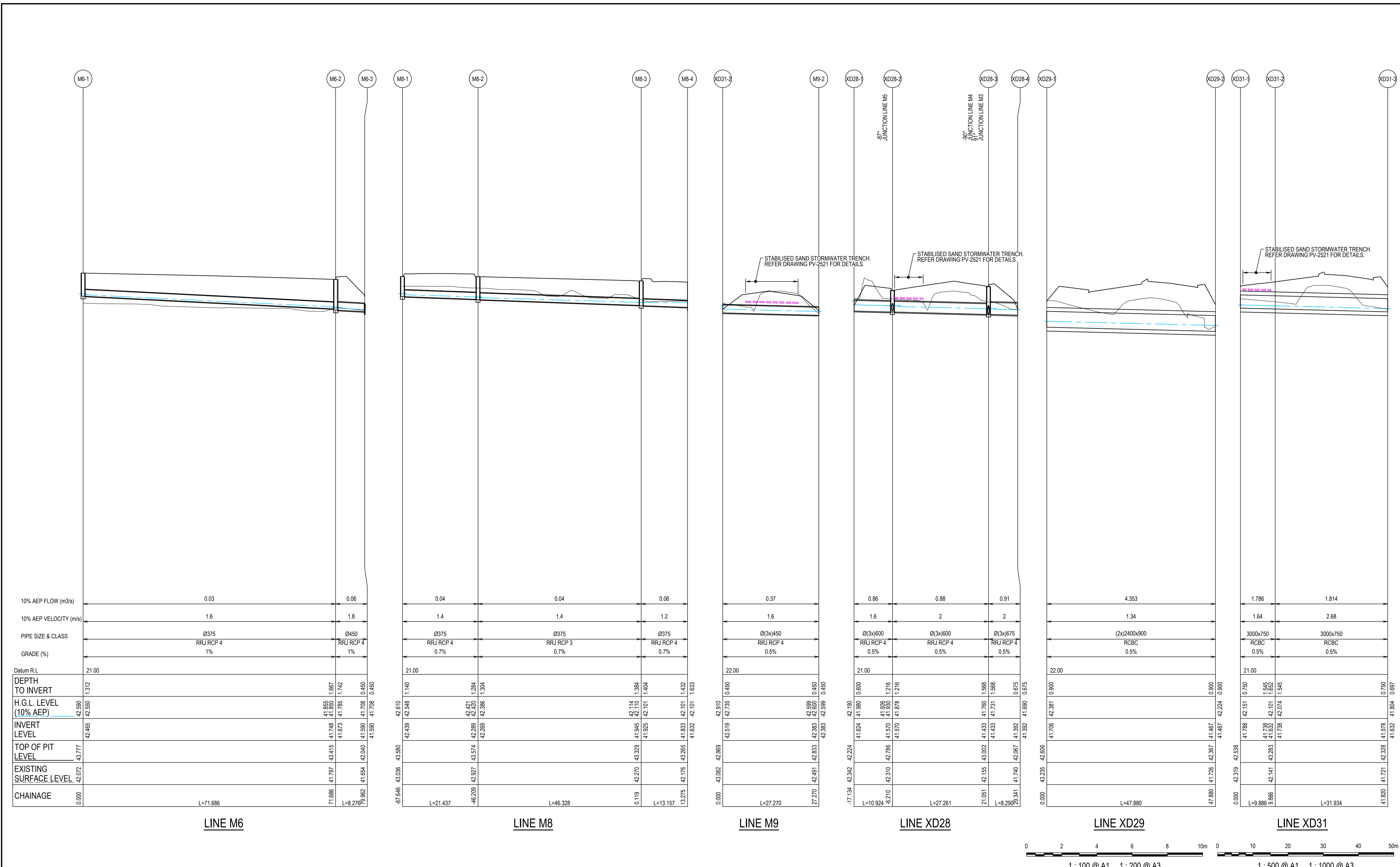
LINE M5



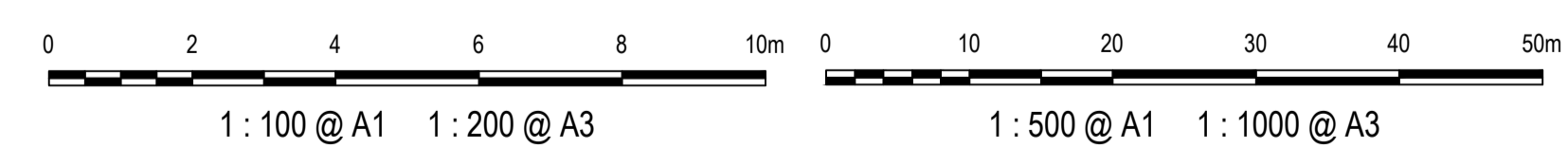
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 100 @ A1 (V) 1 : 500 @ A1 (H)
Grid	GDA2020
Height Datum	AHD
TFNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	SM-2432
Issue	1

<p>Civil Engineers and Project Managers</p> <p>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</p>



Line	10% AEP FLOW (m3/s)	10% AEP VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Datum R.L.	DEPTH TO INVERT	H.G.L. LEVEL (10% AEP)	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
LINE M6	0.03	1.6	Ø375 RRJ RCP 4	1%	21.00	1.312	42.390	42.465	43.777	42.072	0.000
	0.06	1.8	Ø450 RRJ RCP 4	1%		0.450	41.708	41.708	42.040	41.654	71.686
LINE M8	0.04	1.4	Ø375 RRJ RCP 4	0.7%	21.00	1.140	42.548	42.439	43.580	43.036	-67.646
	0.04	1.4	Ø375 RRJ RCP 3	0.7%		1.284	42.520	42.289	43.574	42.927	-46.209
LINE M9	0.37	1.6	Ø(3x)450 RRJ RCP 4	0.5%	22.00	0.450	42.735	42.519	42.969	42.062	0.000
	0.86	2	Ø(3x)600 RRJ RCP 4	0.5%	21.00	0.600	41.980	41.624	42.342	42.224	-17.134
LINE XD28	0.88	2	Ø(3x)600 RRJ RCP 4	0.5%	21.00	0.600	41.980	41.926	42.786	42.310	42.210
	0.91	2	Ø(3x)675 RRJ RCP 4	0.5%	21.00	0.675	41.731	41.433	42.002	41.155	21.051
LINE XD29	4.353	1.34	(2x)2400x900 RCBC	0.5%	22.00	0.900	42.381	41.706	42.606	43.235	0.000
	1.786	1.64	3000x750 RCBC	0.5%	21.00	0.750	42.151	41.798	42.538	42.319	0.000
LINE XD31	1.814	2.68	3000x750 RCBC	0.5%	21.00	0.750	42.151	41.798	42.538	42.141	3.886
						0.450	41.680	41.392	42.067	41.740	29.341



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	FRASERS PROPERTY, ESR, Stockland, FIFECAPITAL
Scales	1 : 100 @ A1 (V), 1 : 500 @ A1 (H)
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3
Civil Engineers and Project Managers	at&I
Status	FOR APPROVAL
Project - Drawing No.	SM-2433
Issue	1

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info@atl.net.au

PIT NAME	PIT TYPE	DESCRIPTION
M1-1	CULVERT CONNECTION	BUTT JOINT TO PRECAST CULVERT AS PART OF INTERNAL WORKS
M1-2	MODIFIED SA3	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01, R0220-28, R0220-05 AND DRAWING SM-2455 FOR DETAILS
M12-1	CONCRETE HEADWALL TWIN CELL	REFER TfNSW MODEL DRAWING R0210-17
M12-2	CONCRETE HEADWALL TWIN CELL	REFER TfNSW MODEL DRAWING R0210-17
M1-3	MODIFIED SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01, R0220-28, R0220-05 AND DRAWING SM-2455 FOR DETAILS
M1-4	CUSTOM HEADWALL	REFER DRAWING SM-2452 FOR DETAILS
M14-1	CONCRETE HEADWALL TRIPLE CELL	REFER TfNSW MODEL DRAWING R0210-19
M14-2	PIPE TO PIPE CONNECTION	REFER TfNSW MODEL DRAWING R0220-49
M15-1	CONCRETE HEADWALL TWIN CELL	REFER TfNSW MODEL DRAWING R0210-17
M15-2	PIPE TO PIPE CONNECTION	REFER TfNSW MODEL DRAWING R0220-49
M16-1	CONCRETE HEADWALL SINGLE CELL	REFER TfNSW MODEL DRAWING R0210-15
M16-2	CONCRETE HEADWALL SINGLE CELL	REFER TfNSW MODEL DRAWING R0210-15
M1A-1	JUNCTION PIT	CLASS 'D' CONCRETE COVER. REFER DRAWING SM-2455 FOR DETAILS
M1A-2	MODIFIED SE	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-06, R0220-28, R0220-05 AND DRAWING SM-2455 FOR DETAILS
M1B-1	SE	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-06, R0220-01 AND R0220-05
M2-1	SL1	REFER TfNSW MODEL DRAWING R0220-20
M2-2	MODIFIED SAS	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01, R0220-28, R0220-05 AND DRAWING SM-2455 FOR DETAILS
M2-3	SL1	REFER TfNSW MODEL DRAWING R0220-20
M2-4	SL5	REFER TfNSW MODEL DRAWING R0220-20
M2-5	SAS	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M2-6	CONCRETE HEADWALL SINGLE CELL	REFER TfNSW MODEL DRAWING R0210-15
M3-1	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M3-2	SAS	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M4-1	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M4-2	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M4-3	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M5-1	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M5-2	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M6-1	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M6-2	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M6-3	CUSTOM HEADWALL	REFER DRAWING SM-2454 FOR DETAILS
M8-1	SAS	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M8-2	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M8-3	SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND R0220-05
M8-4	CULVERT CONNECTION	REFER TfNSW MODEL DRAWING R0220-44
M9-1	CONCRETE HEADWALL TRIPLE CELL	REFER TfNSW MODEL DRAWING R0210-19
M9-2	CONCRETE HEADWALL TRIPLE CELL	REFER TfNSW MODEL DRAWING R0210-19
XD28-1	CONCRETE HEADWALL TRIPLE CELL	REFER TfNSW MODEL DRAWING R0210-19
XD28-2	MODIFIED SAS	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND DRAWING SM-2455 FOR DETAILS
XD28-3	MODIFIED SA2	CLASS 'D' GRATE AND FRAME. REFER TfNSW MODEL DRAWING R0220-01 AND DRAWING SM-2455 FOR DETAILS
XD28-4	CONCRETE HEADWALL TRIPLE CELL	REFER TfNSW MODEL DRAWING R0210-19
XD29-1	CUSTOM HEADWALL	REFER DRAWING SM-2453 FOR DETAILS
XD29-2	CUSTOM HEADWALL	REFER DRAWING SM-2453 FOR DETAILS
XD31-1	CUSTOM HEADWALL	REFER DRAWING SM-2454 FOR DETAILS
XD31-2	CUSTOM HEADWALL	REFER DRAWING SM-2454 FOR DETAILS

1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales
NTS

Drawn
Designed
Checked
Approved

Grid
GDA2020

Height Datum
AHD

TfNSW REGISTRATION No.
DS2000/000000

Project
MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED INTERSECTION

Title
STORMWATER DRAINAGE
PIT SCHEDULE

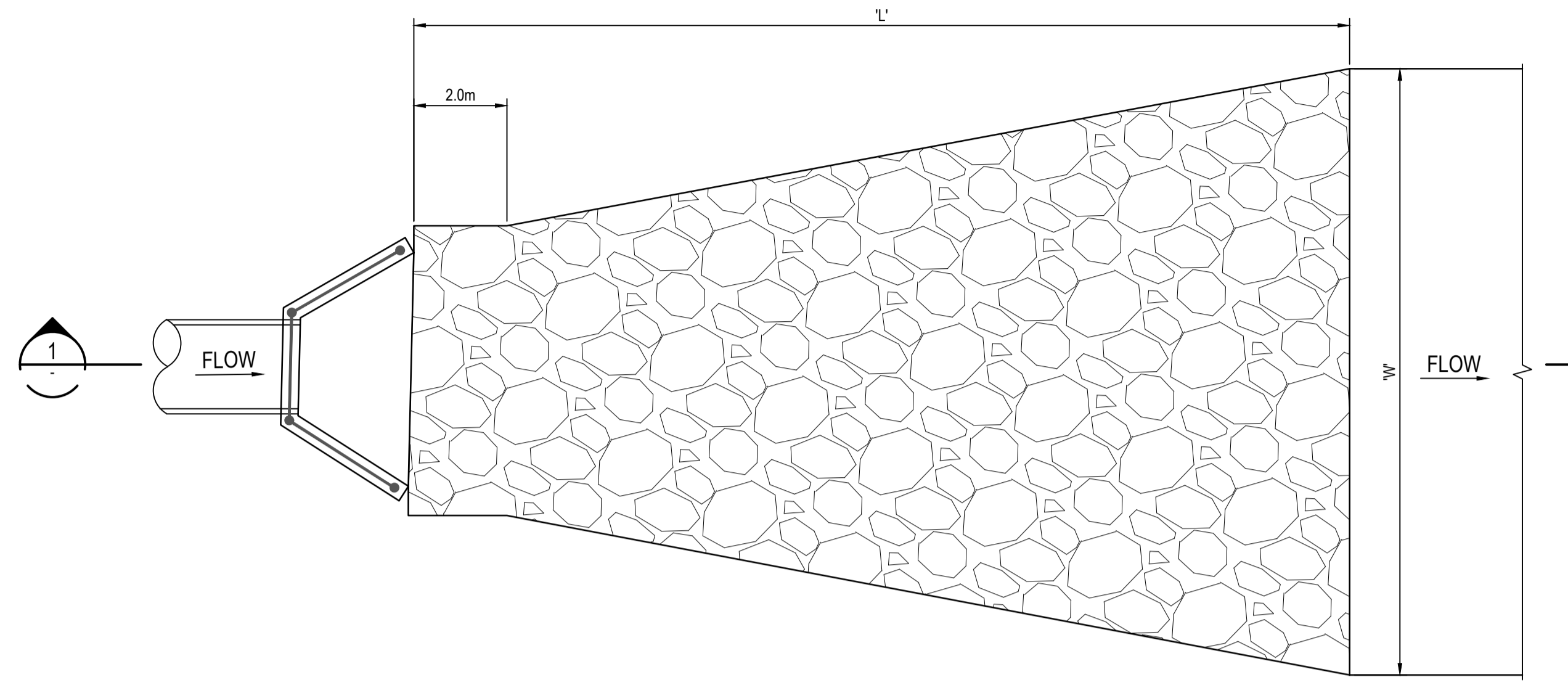
Civil Engineers and Project Managers

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Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

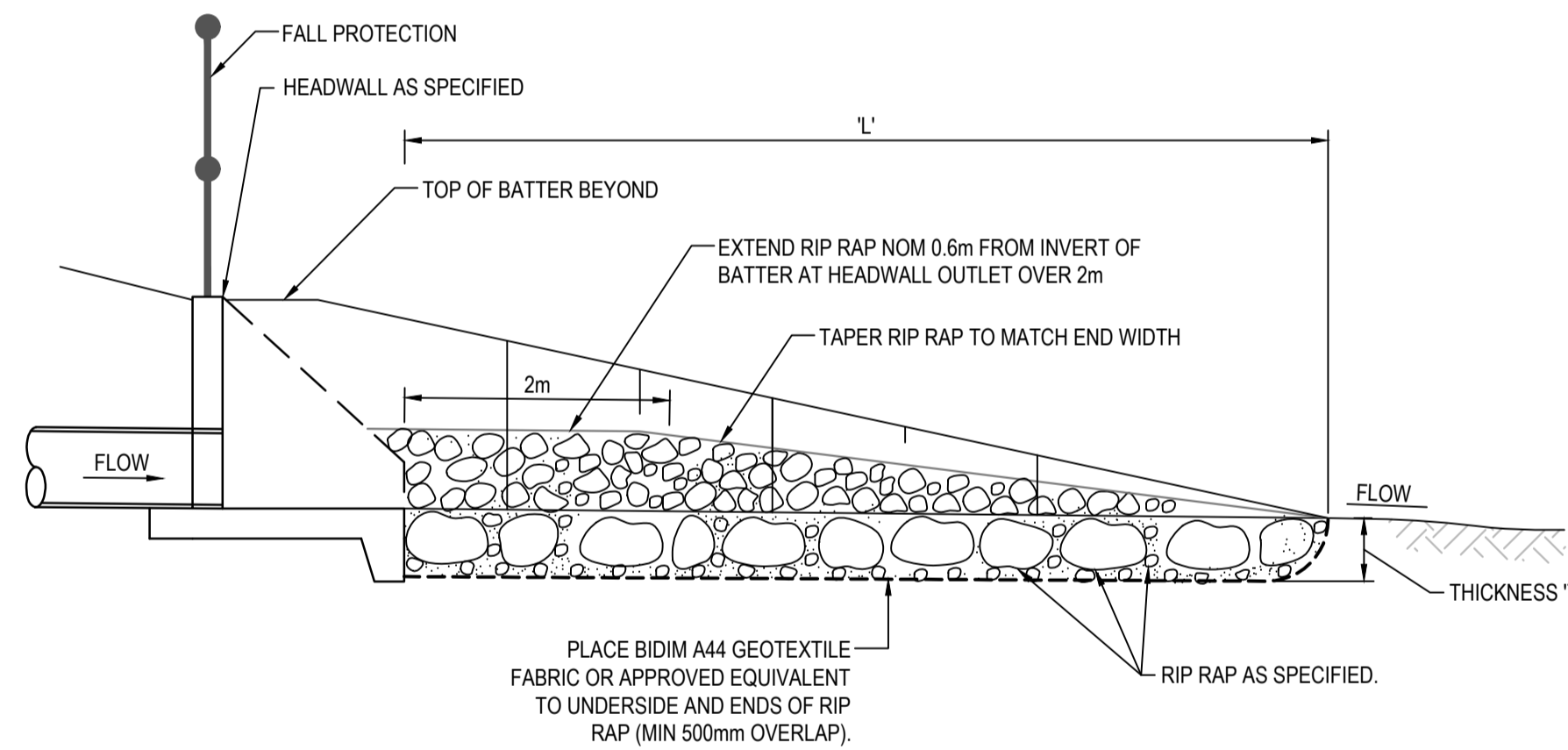
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
SM-2441

Issue
1



**RIP RAP OUTLET PROTECTION
DETAIL
1:100**



**SECTION
NTS**

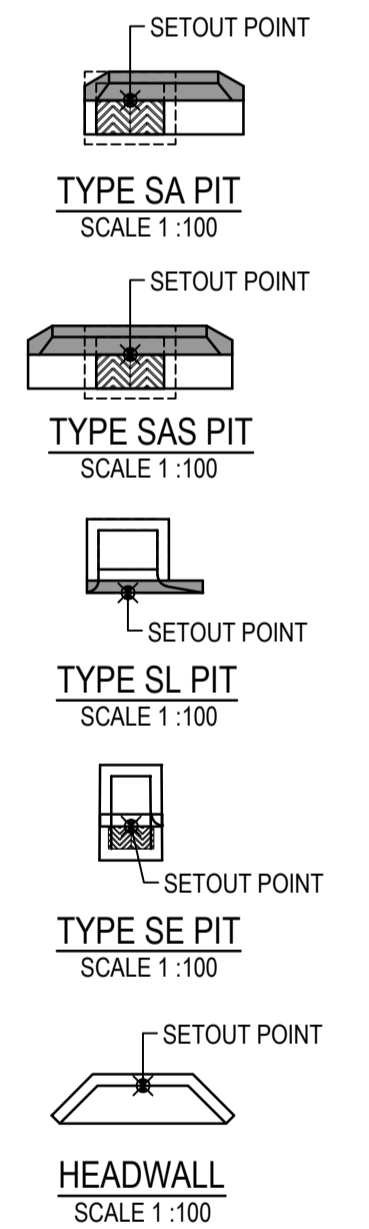
SCOUR PROTECTION SCHEDULE

OUTLET HEADWALL No.	PIPE Ø (mm)	LENGTH OF PROTECTION (m)	WIDTH OF PROTECTION (m)	NOMINAL ROCK SIZE (mm)	THICKNESS OF PROTECTION (mm)
	'D'	'L'	'W'	'd ₅₀ '	'T'
M12-1	3 x 450	5	5.30	150	225
M12-2	3 x 450	5	5.30	150	225
M14-1	3 x 375	5	4.80	150	225
M15-1	3 x 375	5	4.80	150	225
M9-1	3 x 450	5	5.30	150	225
M9-2	3 x 450	5	5.30	150	225
XD28-1	3 x 600	5	6.20	200	300
XD28-4	3 x 675	5	6.65	200	300
XD29-2	2 x 2400 x 900 BOX CULVERT	8	11.00	300	450
XD31-1	3000 x 750 BOX CULVERT	8	6.80	300	450
XD31-2	3000 x 750 BOX CULVERT	8	6.80	300	450

- NOTE:
1. MINIMUM NOMINAL ROCK SIZE 'd50' IS 150mm.
 2. THICKNESS 'T' IS 1.5 x NOMINAL ROCK SIZE
 3. ROCK IS NOT TO BE SITE WON SHALE OR OTHER WEATHERABLE ROCK

ROCK GRADATION TABLE

ROCK SIZE (mm)	d ₅₀					ROCK DISTRIBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
400	600	750	850	900		15-25%
300	400	525	600	750		20%
200	300	400	500	600		50%
75	100	150	150	200		15-25%



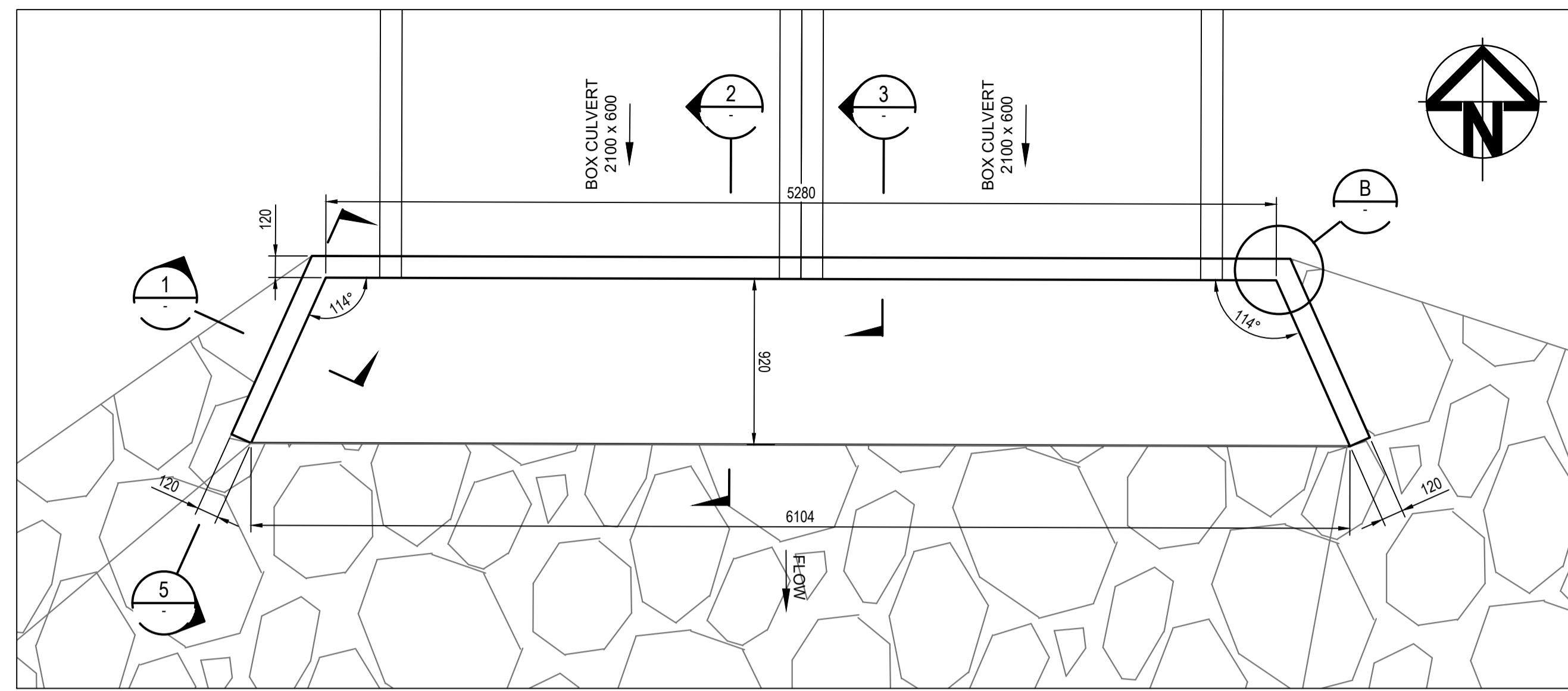
**STORMWATER PIT
SETOUT POINTS**
REFER PIT SETOUT PLANS
FOR ENLARGED CHAMBERS



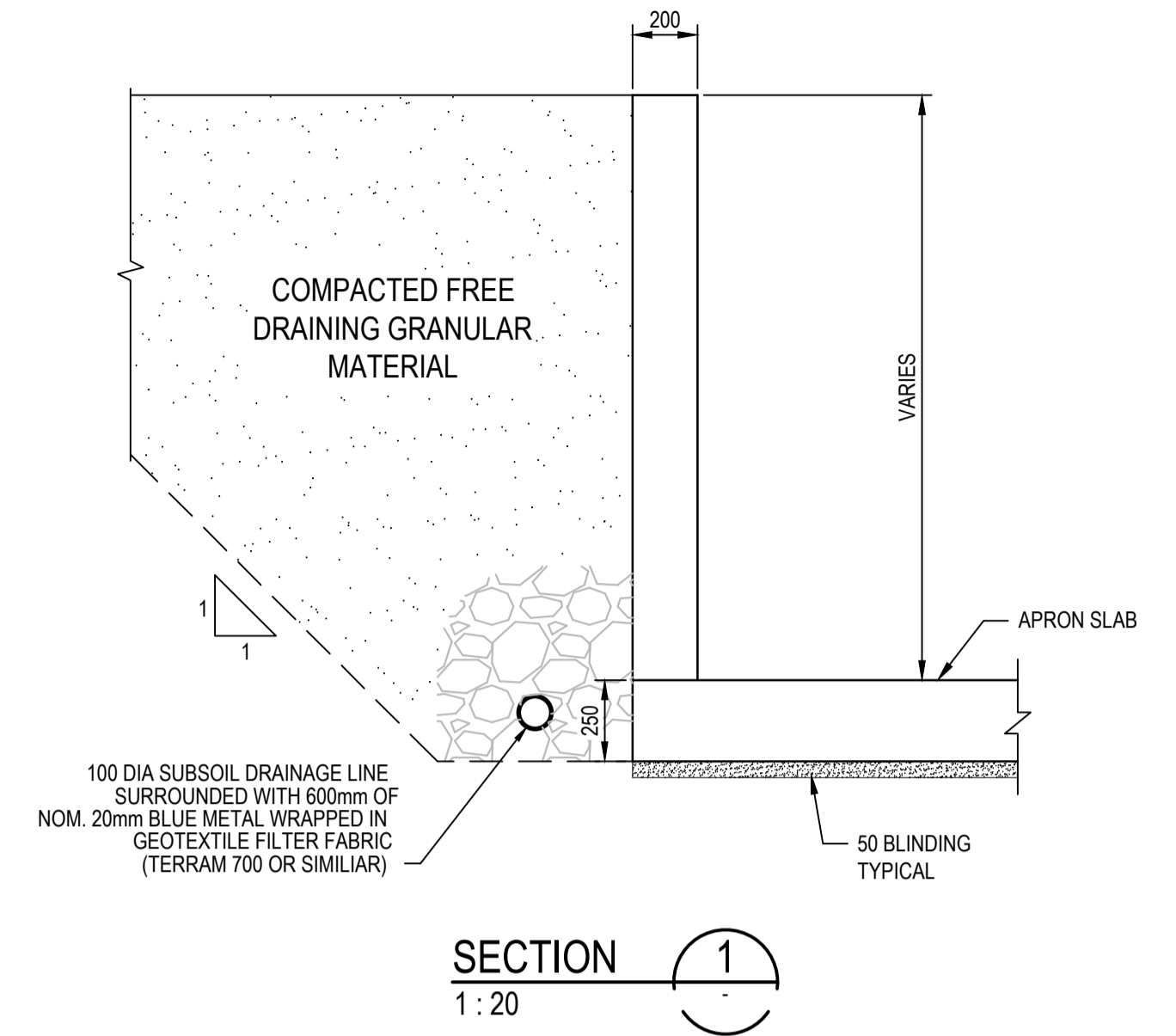
1:100 @ A1 1:200 @ A3

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

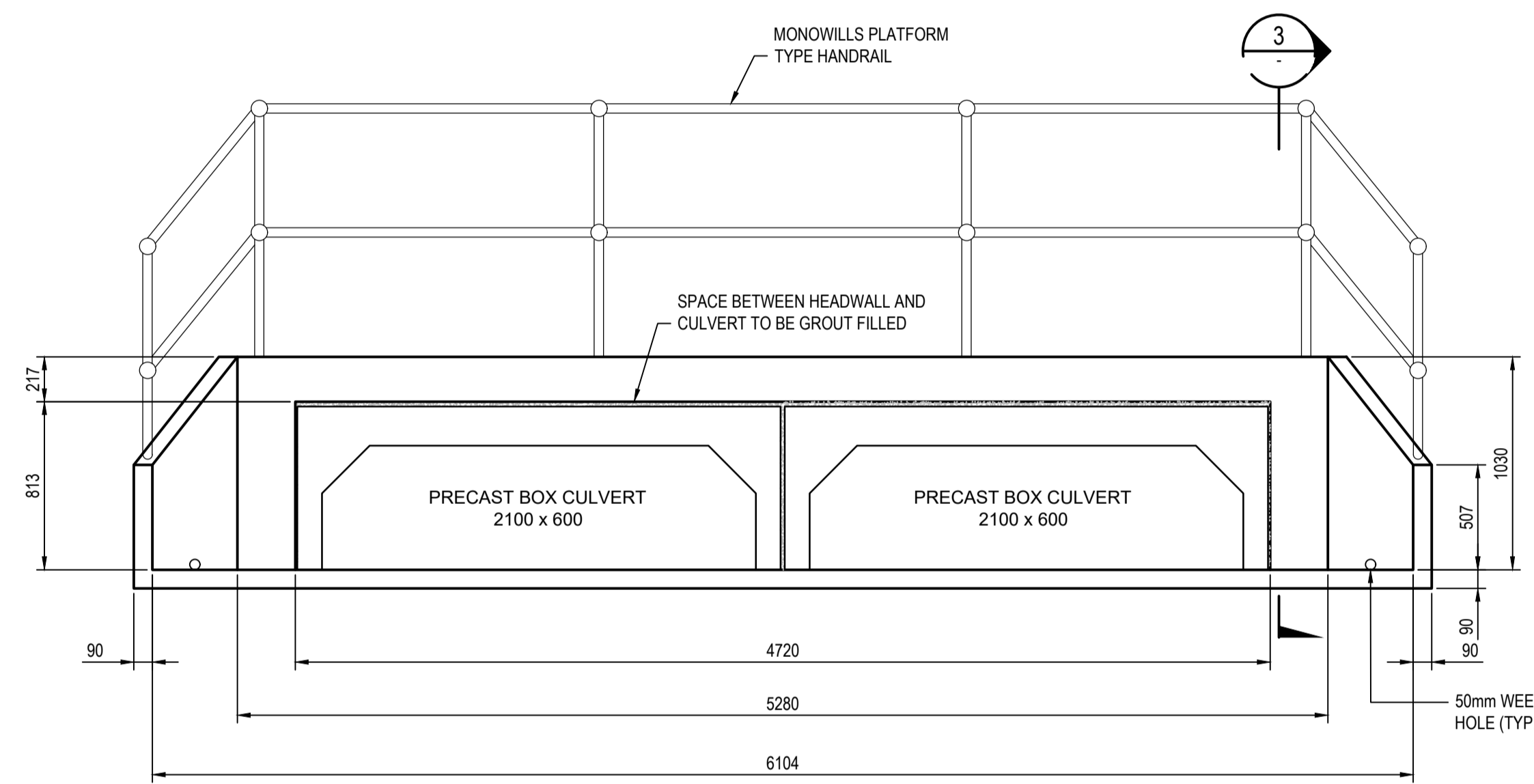
Client 	Scales AS SHOWN	Drawn GB	Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION	Civil Engineers and Project Managers 	
	Grid GDA2020	Checked AL		Approved AL	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Height Datum AHD	TfNSW REGISTRATION No. DS2000/000000	Title STORMWATER DRAINAGE DETAILS SHEET 1		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	Issue 1
			Project - Drawing No. SM-2451		



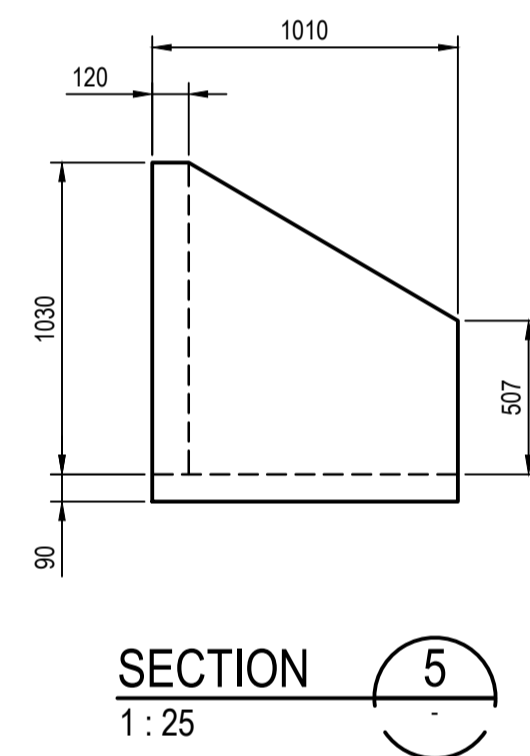
M1-4 HEADWALL PLAN
1:25



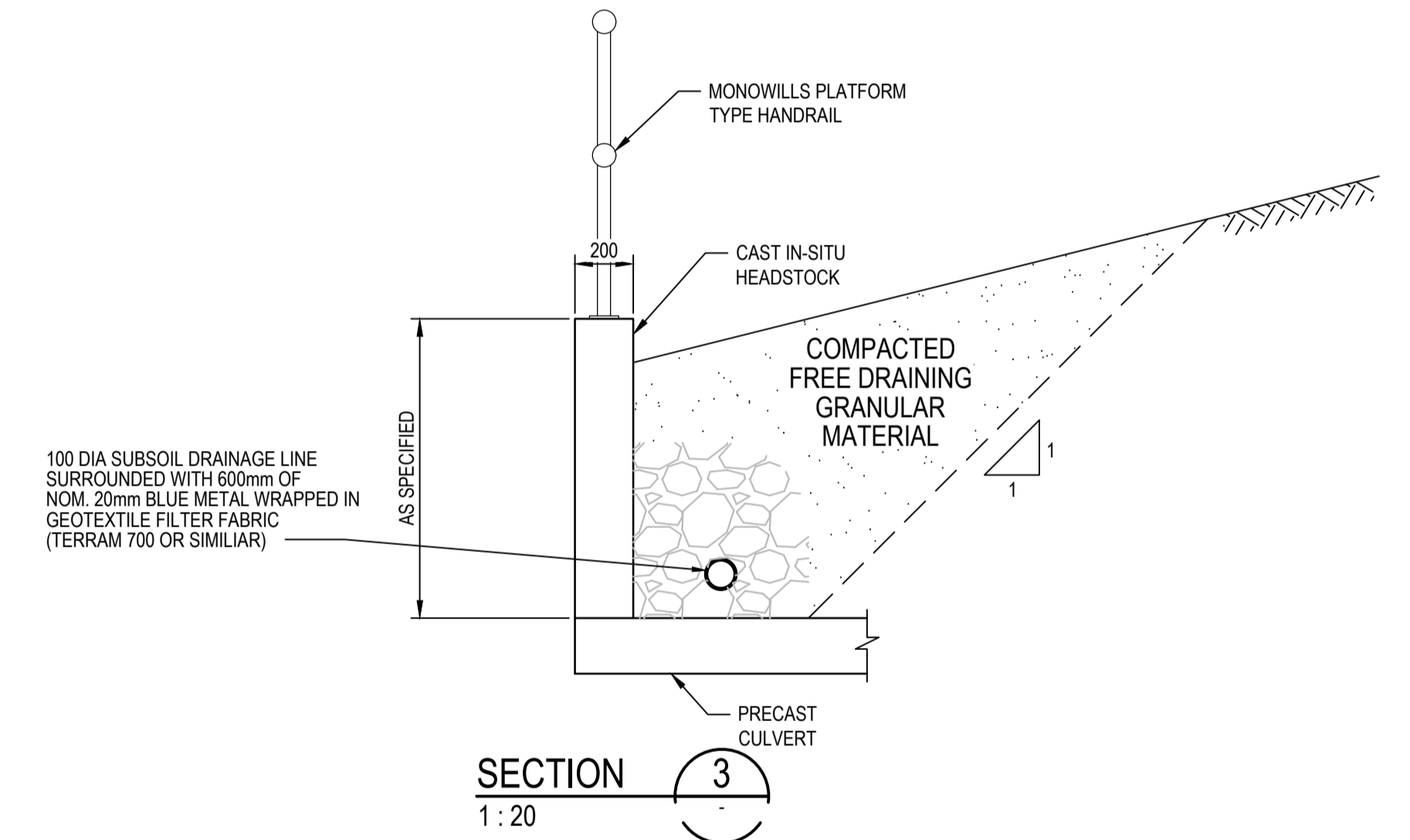
SECTION 1
1:20



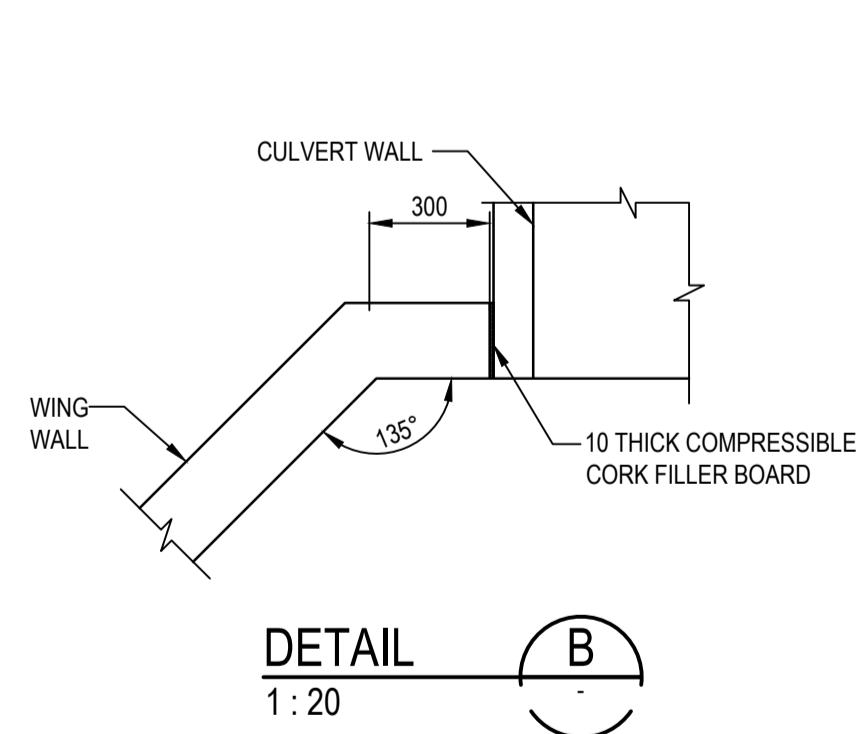
M1-4 HEADWALL ELEVATION
1:25



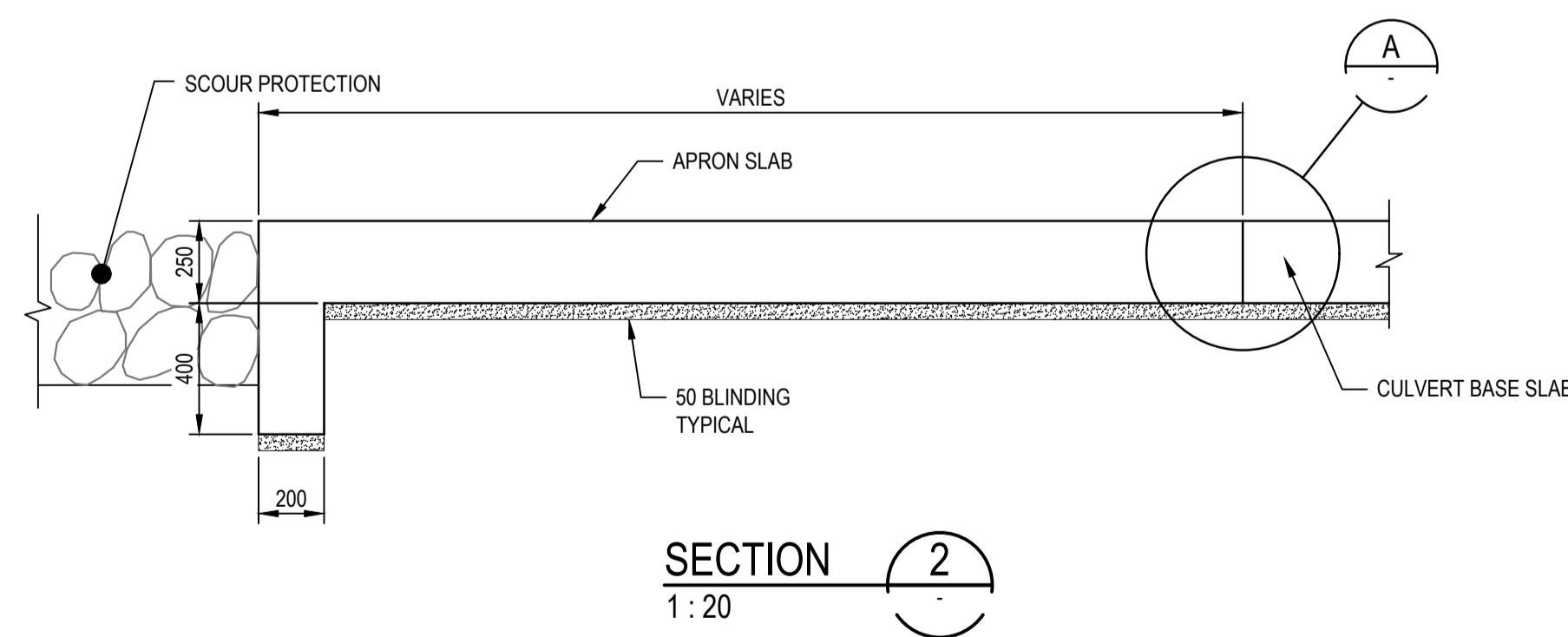
SECTION 5
1:25



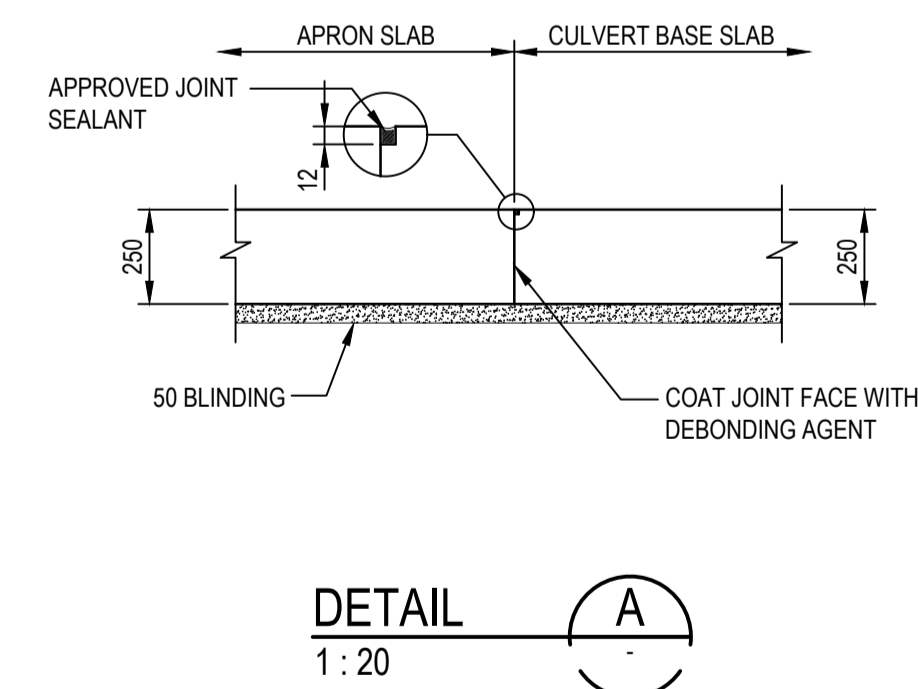
SECTION 3
1:20



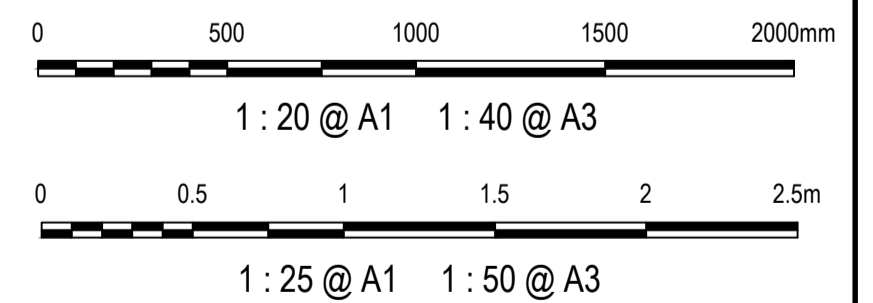
DETAIL B
1:20



SECTION 2
1:20



DETAIL A
1:20

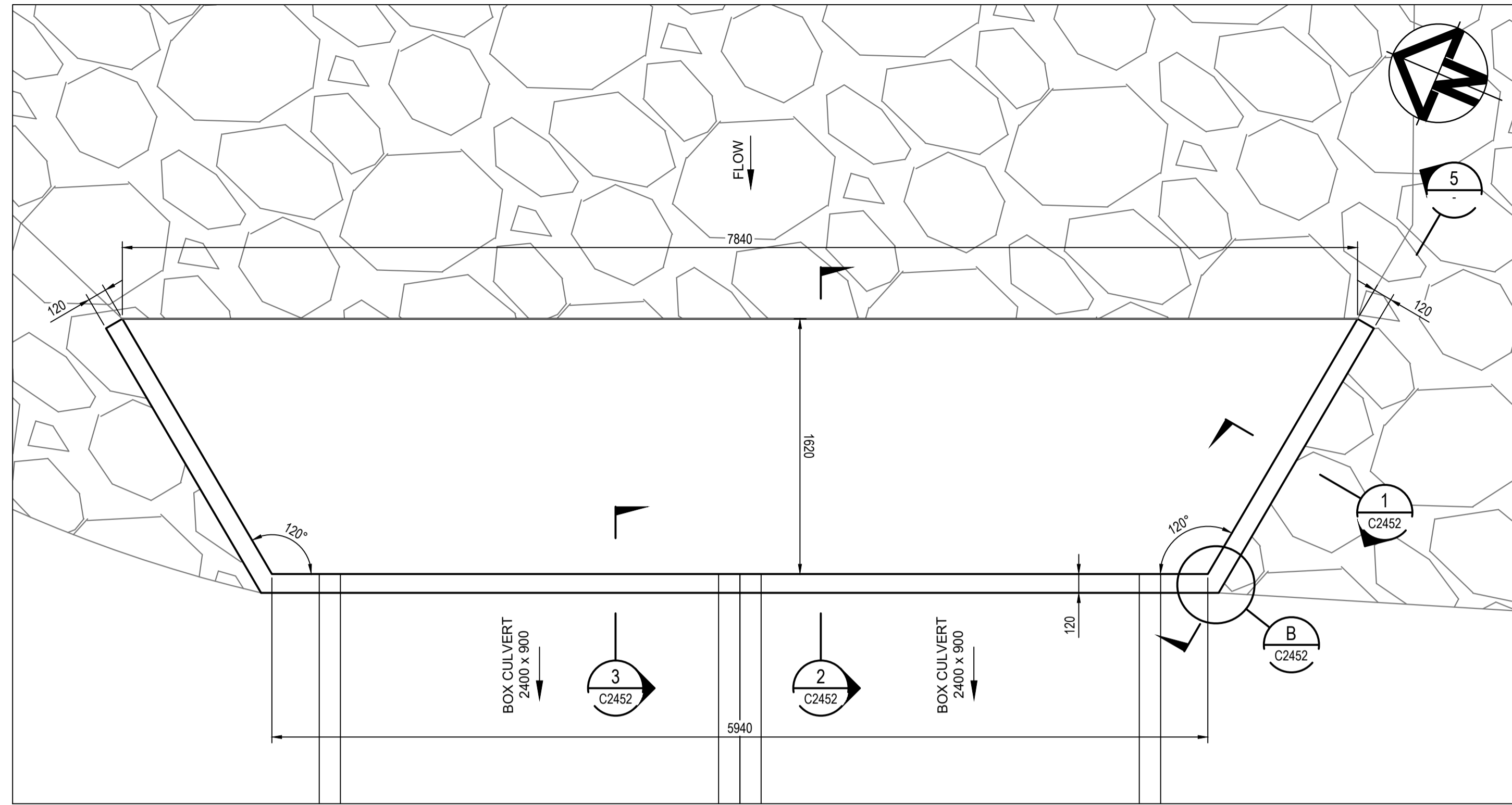


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

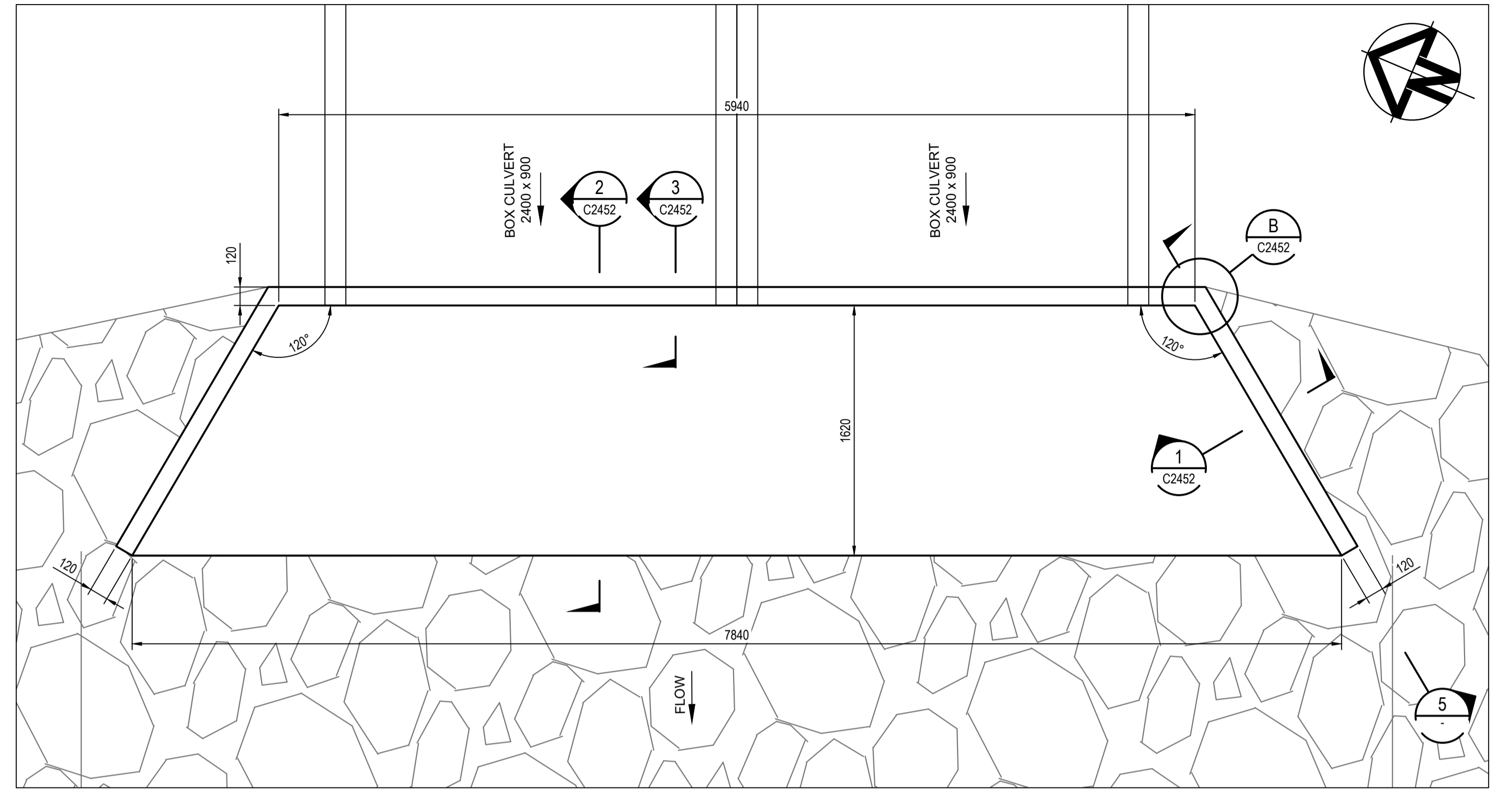
Client	
Scales	AS SHOWN
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE DETAILS SHEET 2

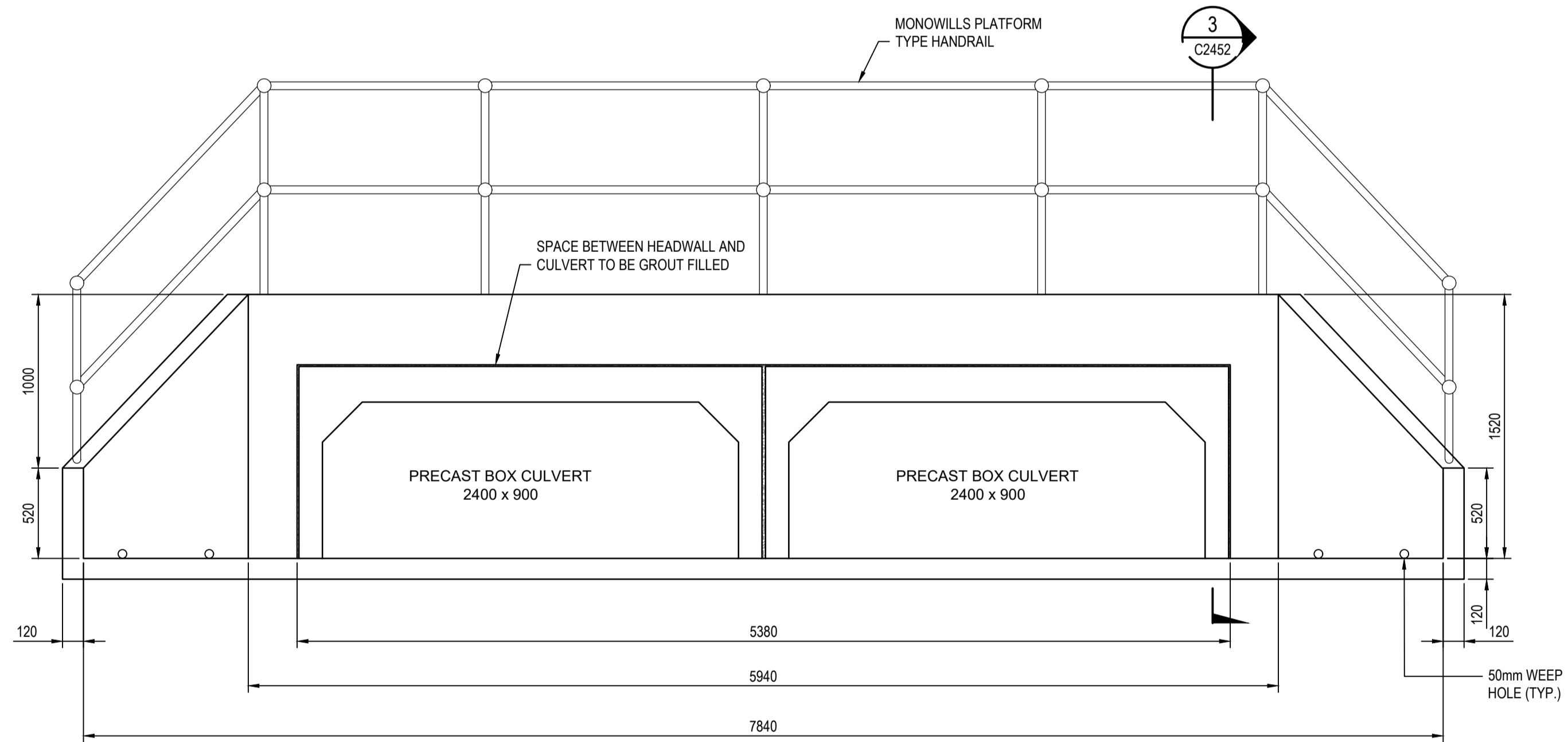
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	SM-2452
Issue	1



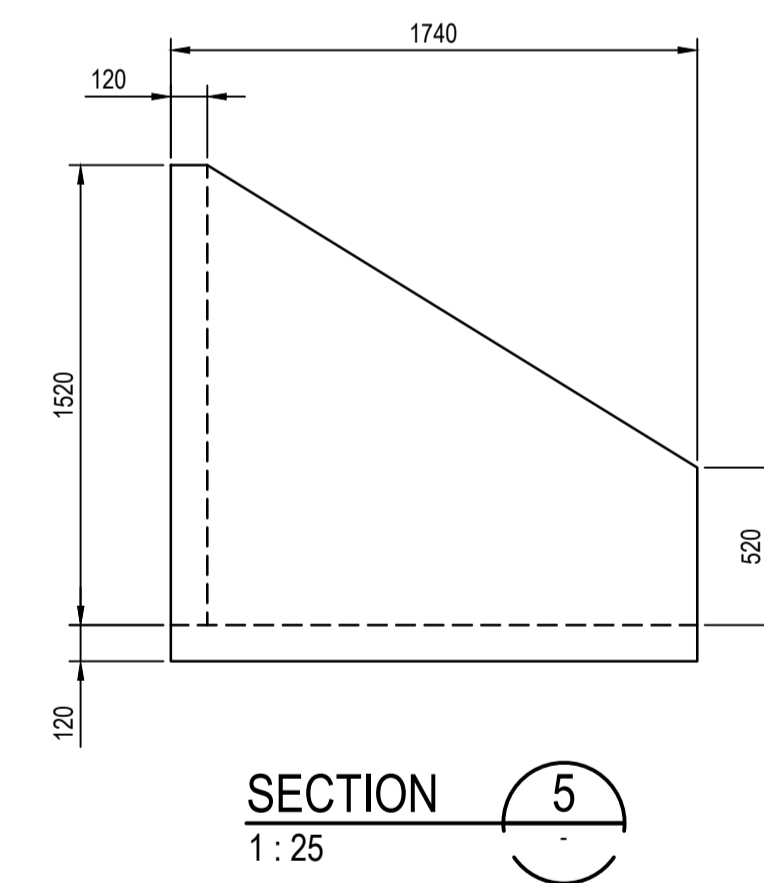
XD29-1 HEADWALL PLAN
1 : 25



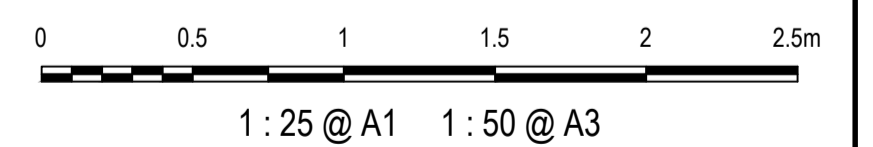
XD29-2 HEADWALL PLAN
1 : 25



XD29-1 AND XD29-2 HEADWALL ELEVATION
1 : 25



SECTION 5
1 : 25



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TFNSW REGISTRATION No.	DS2000/000000	Approved	

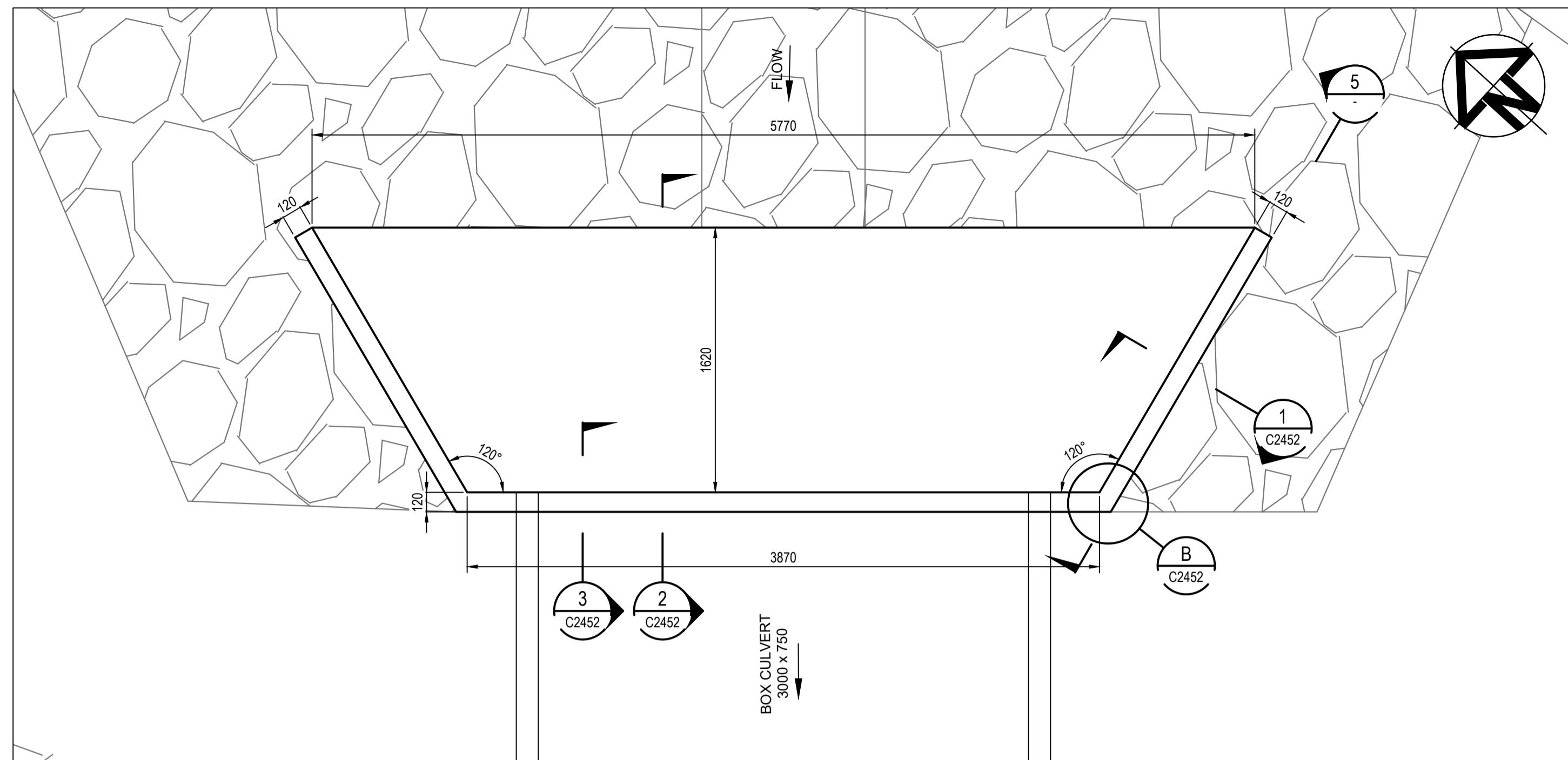
Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
STORMWATER DRAINAGE DETAILS SHEET 3

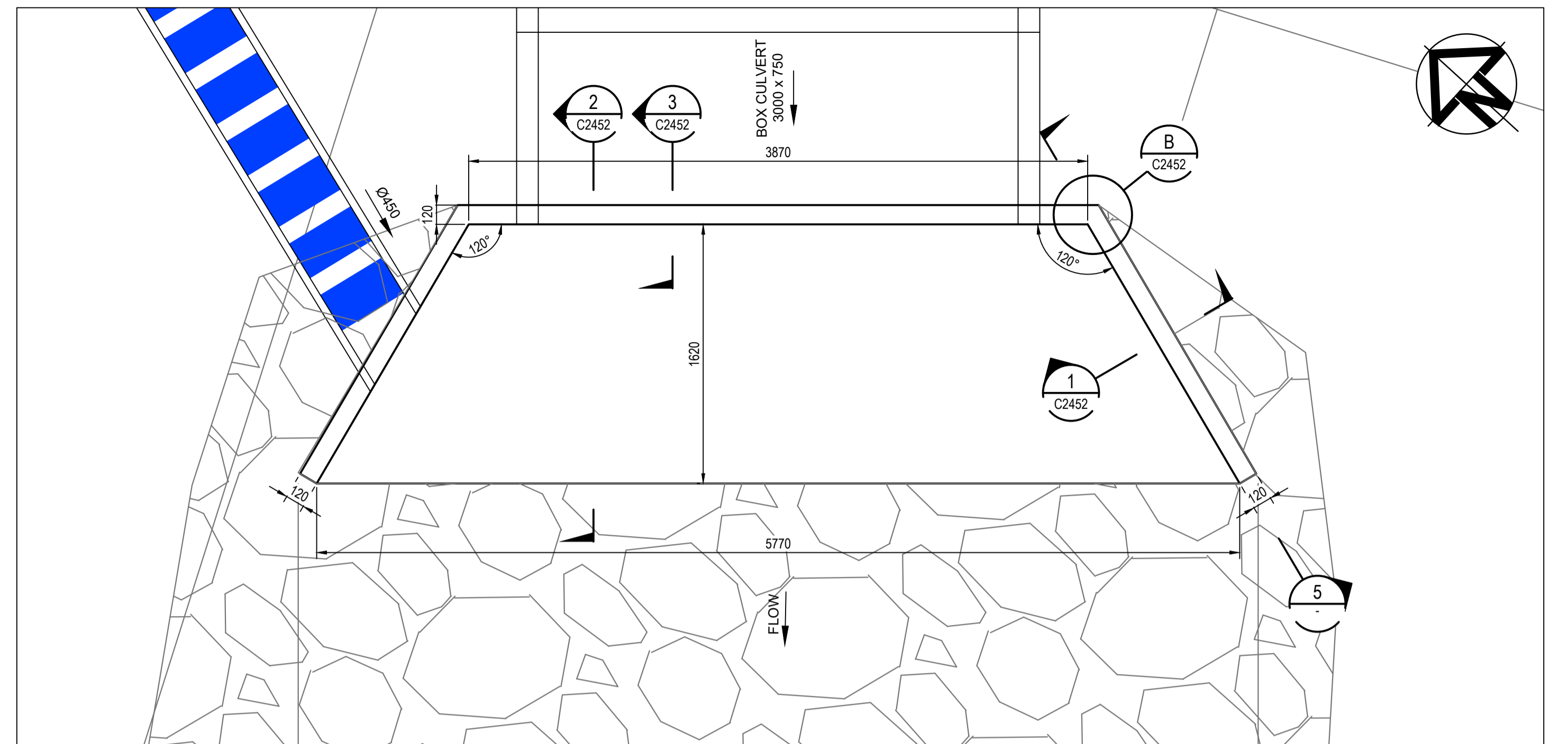
Civil Engineers and Project Managers

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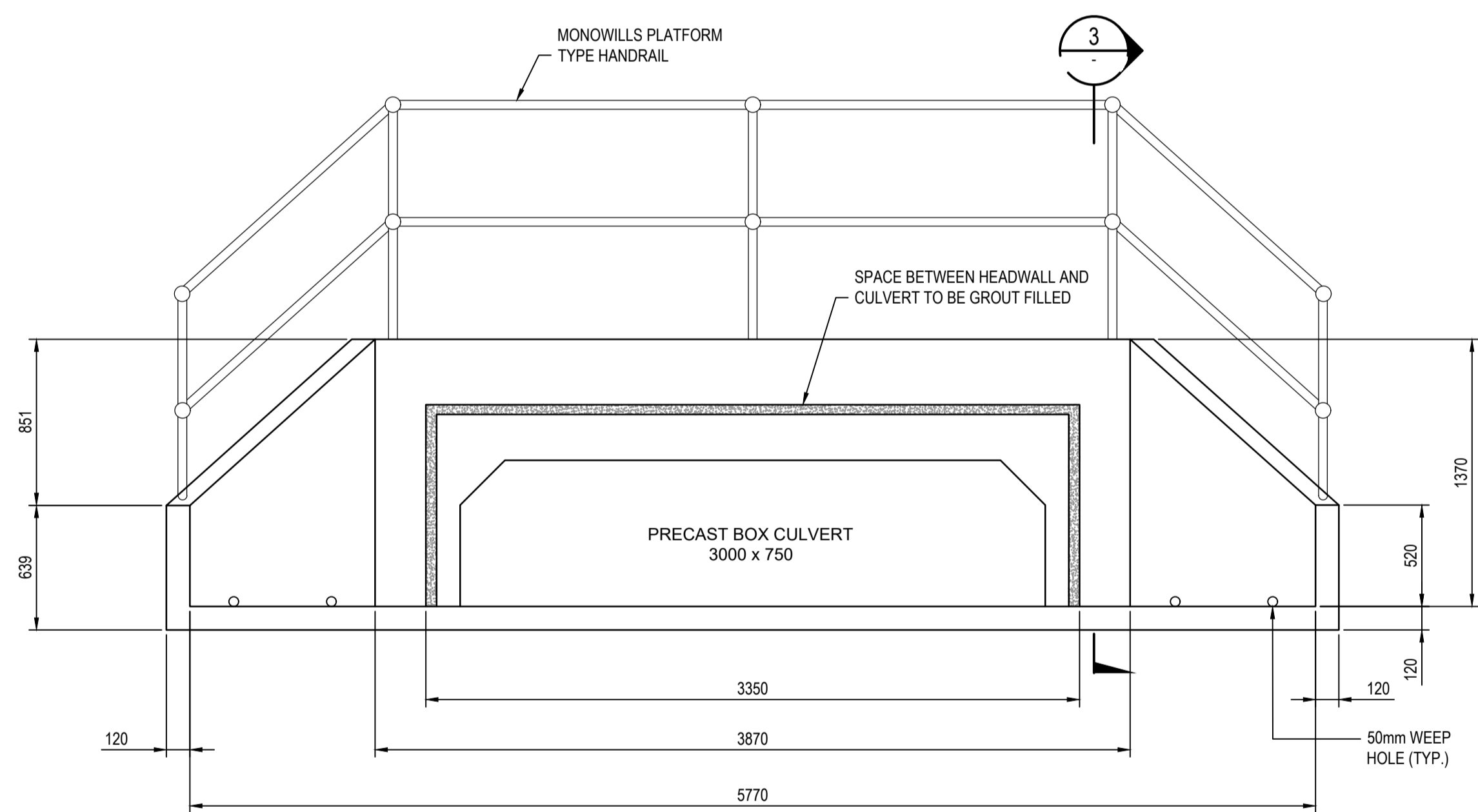
Status	FOR APPROVAL	A1
Project - Drawing No.	SM-2453	Issue
		1



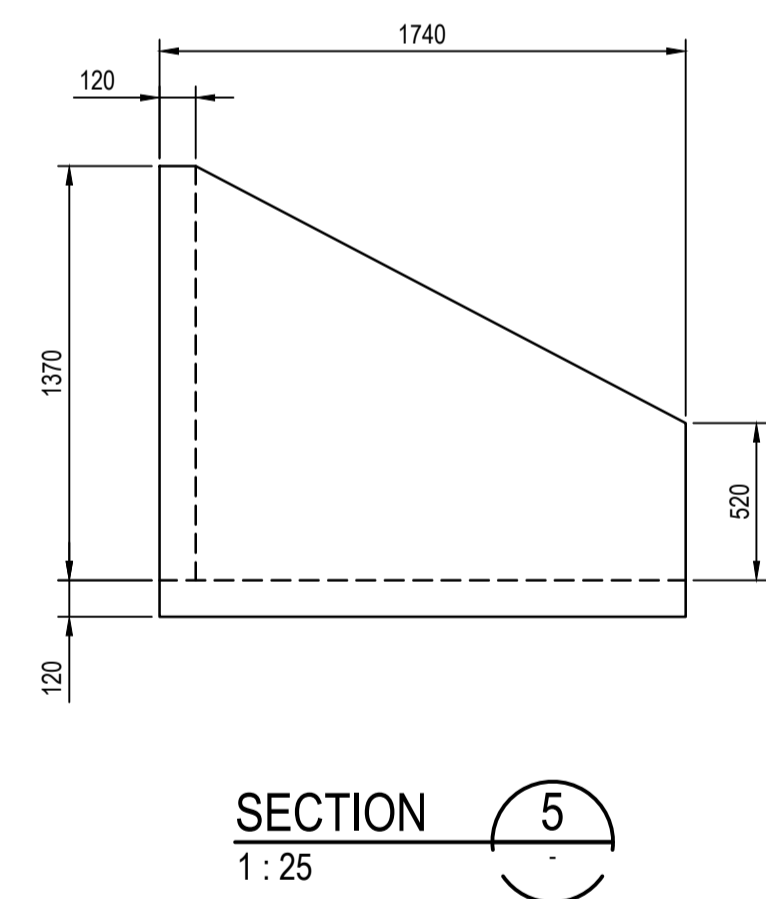
XD31-1 HEADWALL PLAN
1 : 25



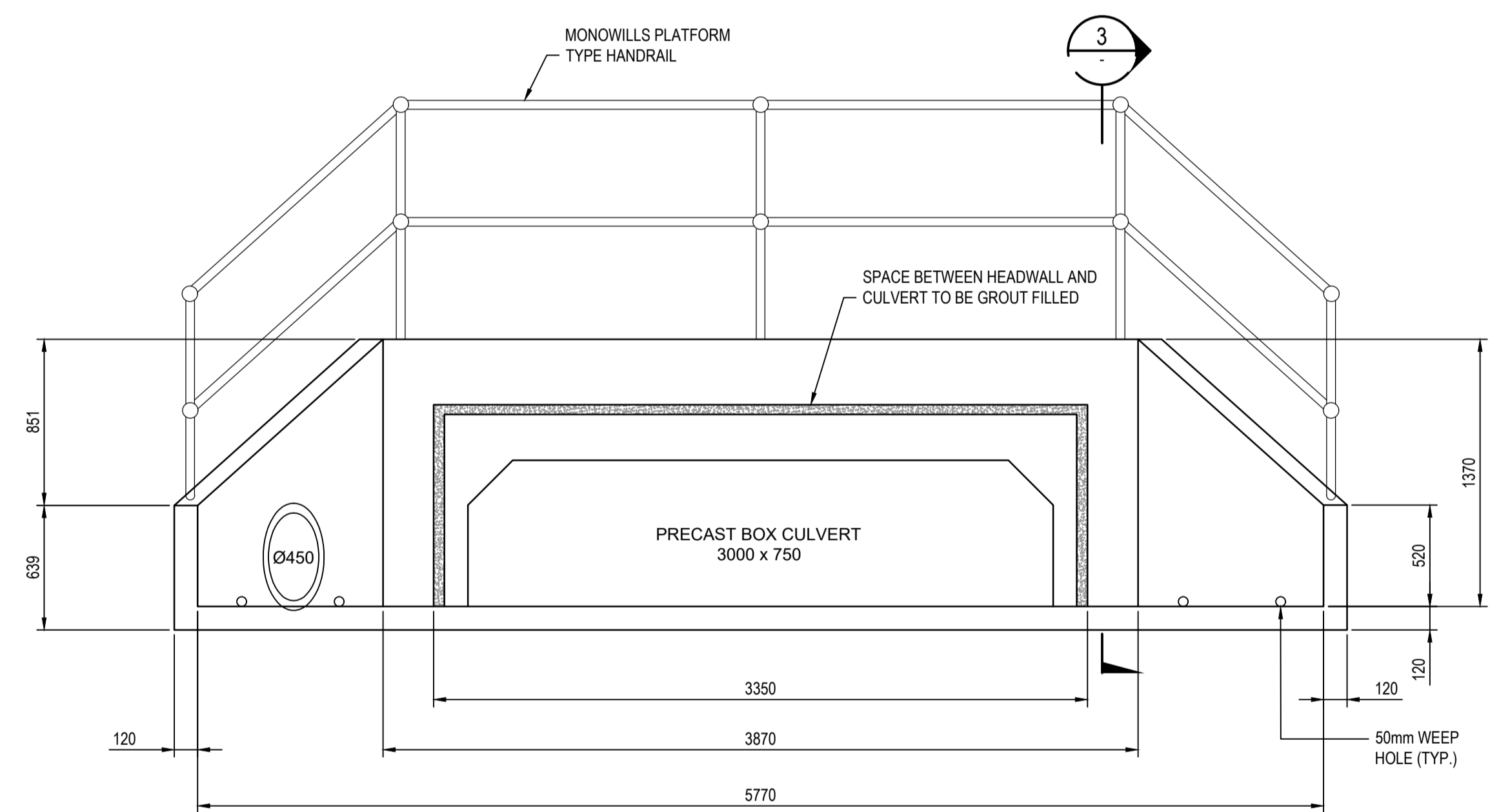
XD31-2 HEADWALL PLAN
1 : 25



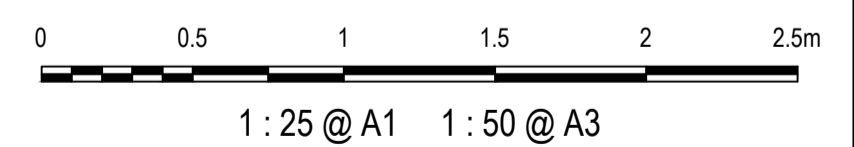
XD31-1 HEADWALL ELEVATION
1 : 25



SECTION 5
1 : 25



XD31-2 HEADWALL ELEVATION
1 : 25



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

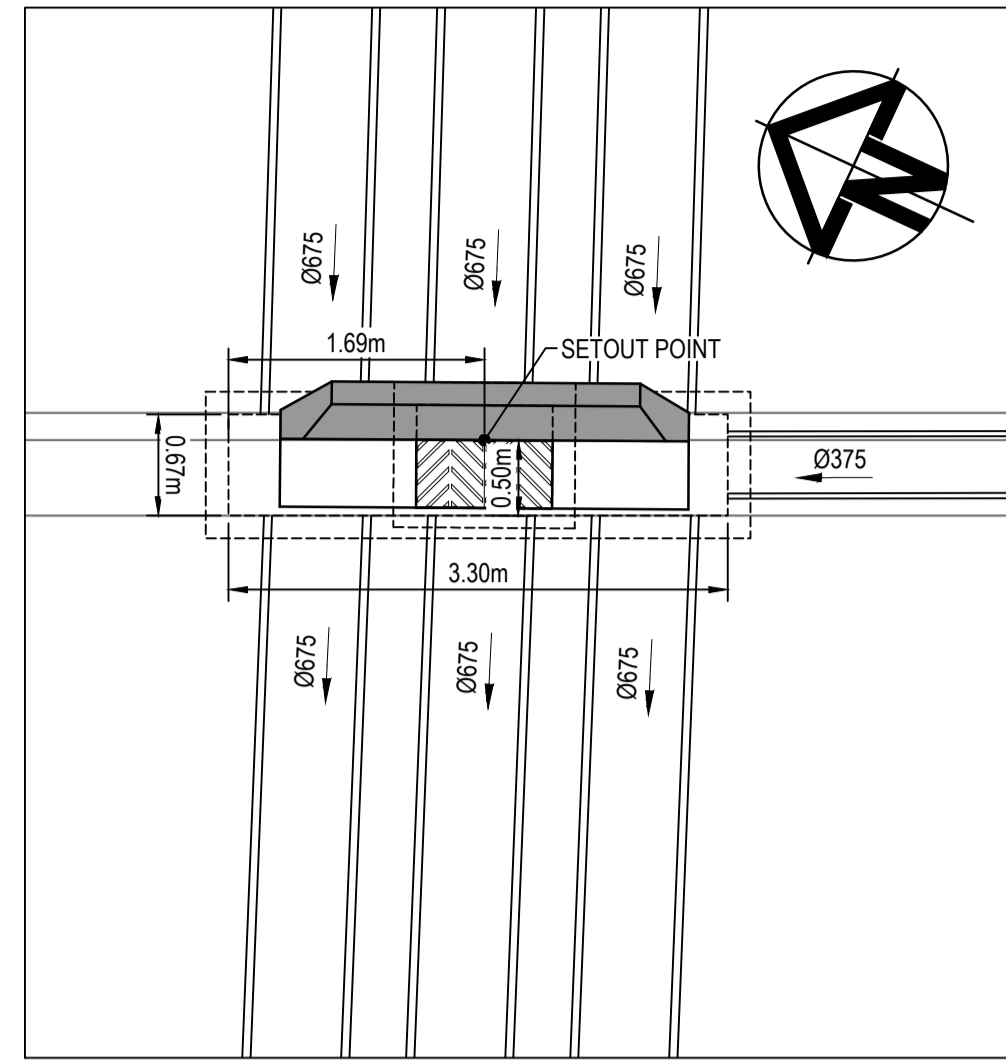
Client	
Client	

Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000	Approved	

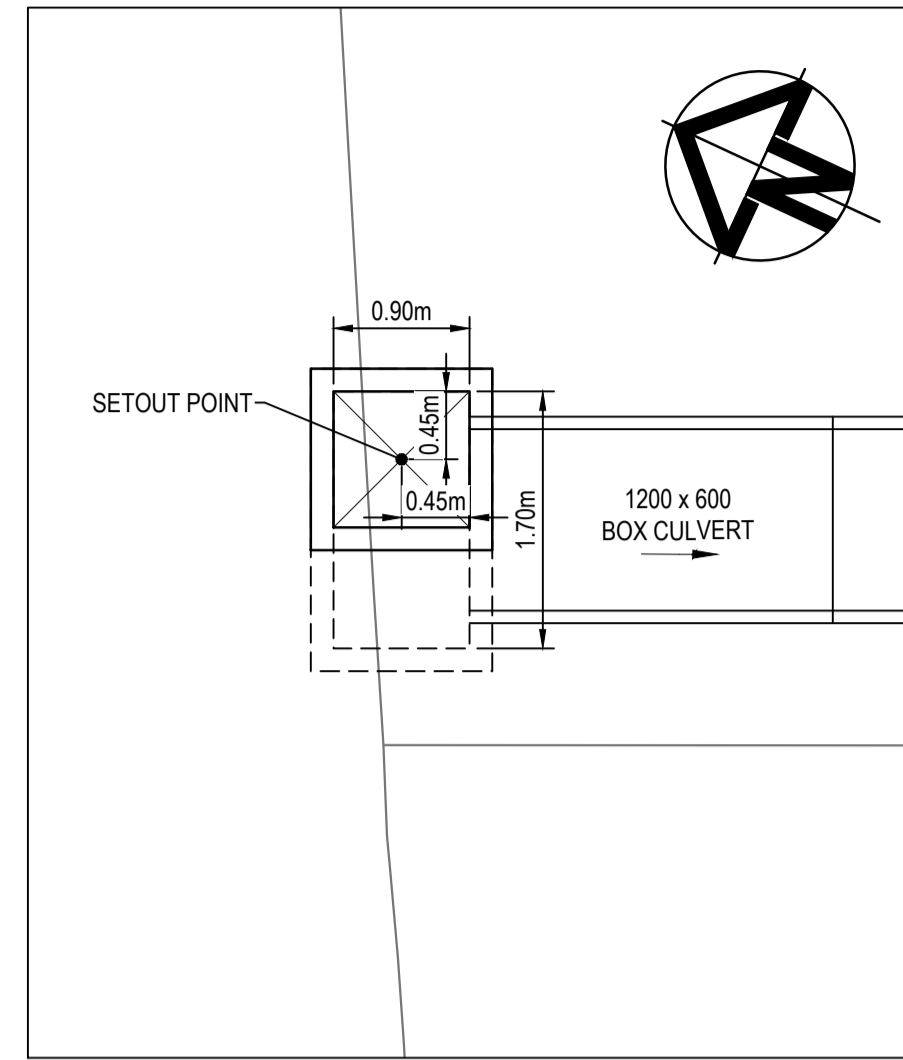
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE DETAILS SHEET 4

Civil Engineers and Project Managers	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	SM-2454
Issue	1

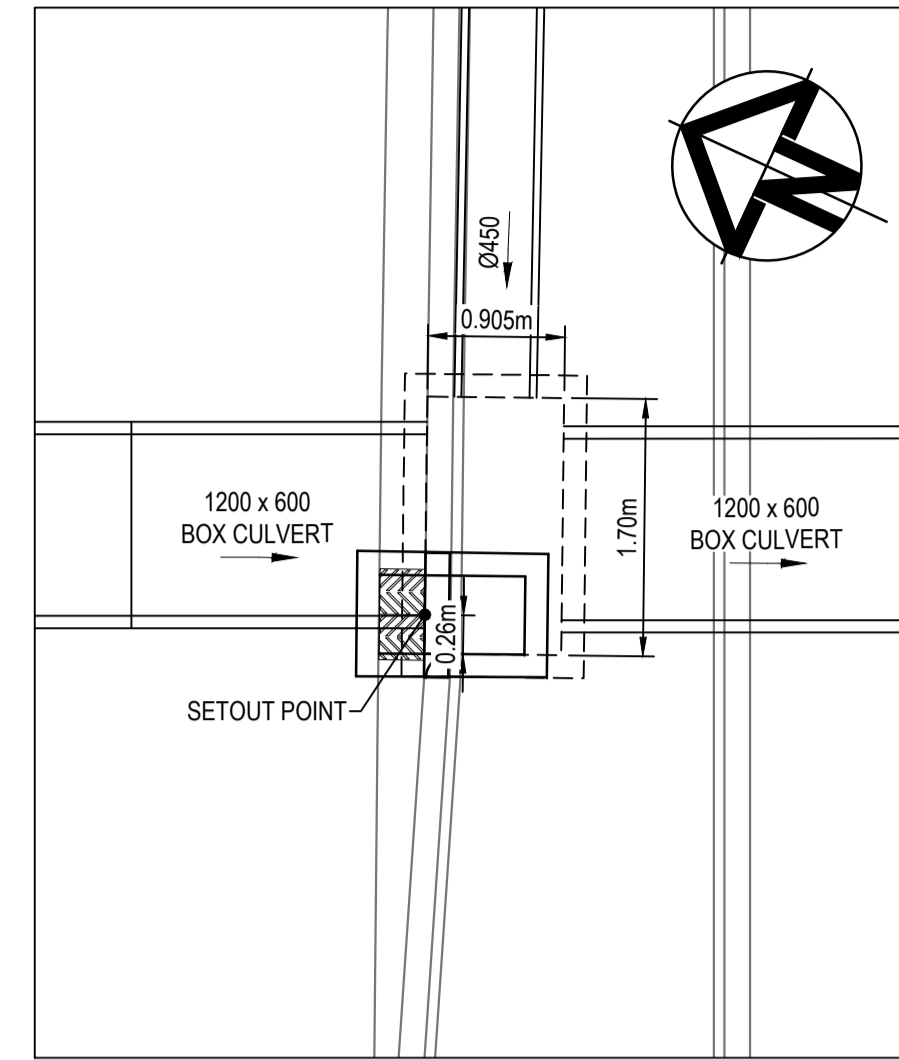
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
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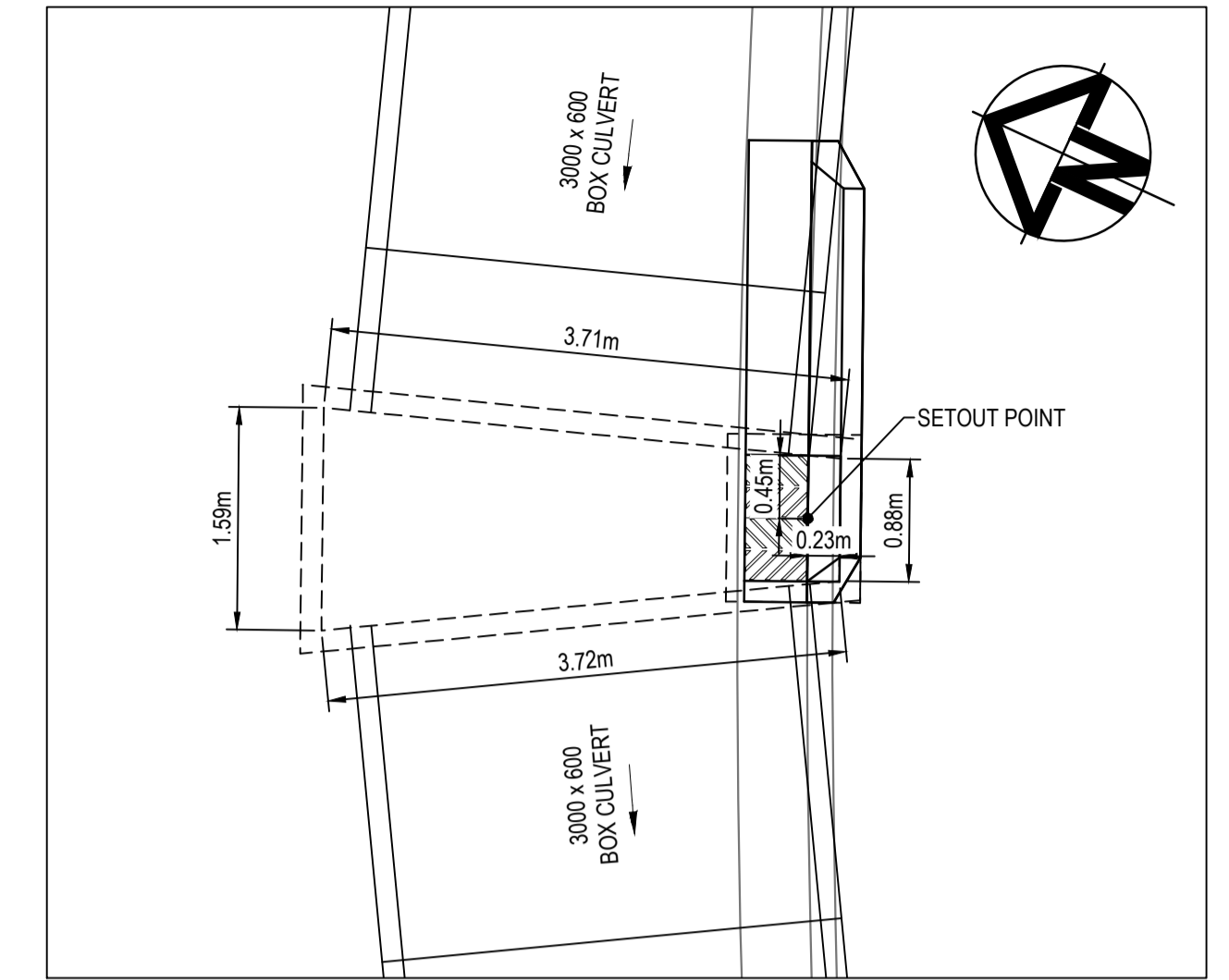
PIT XD28-2
1:50



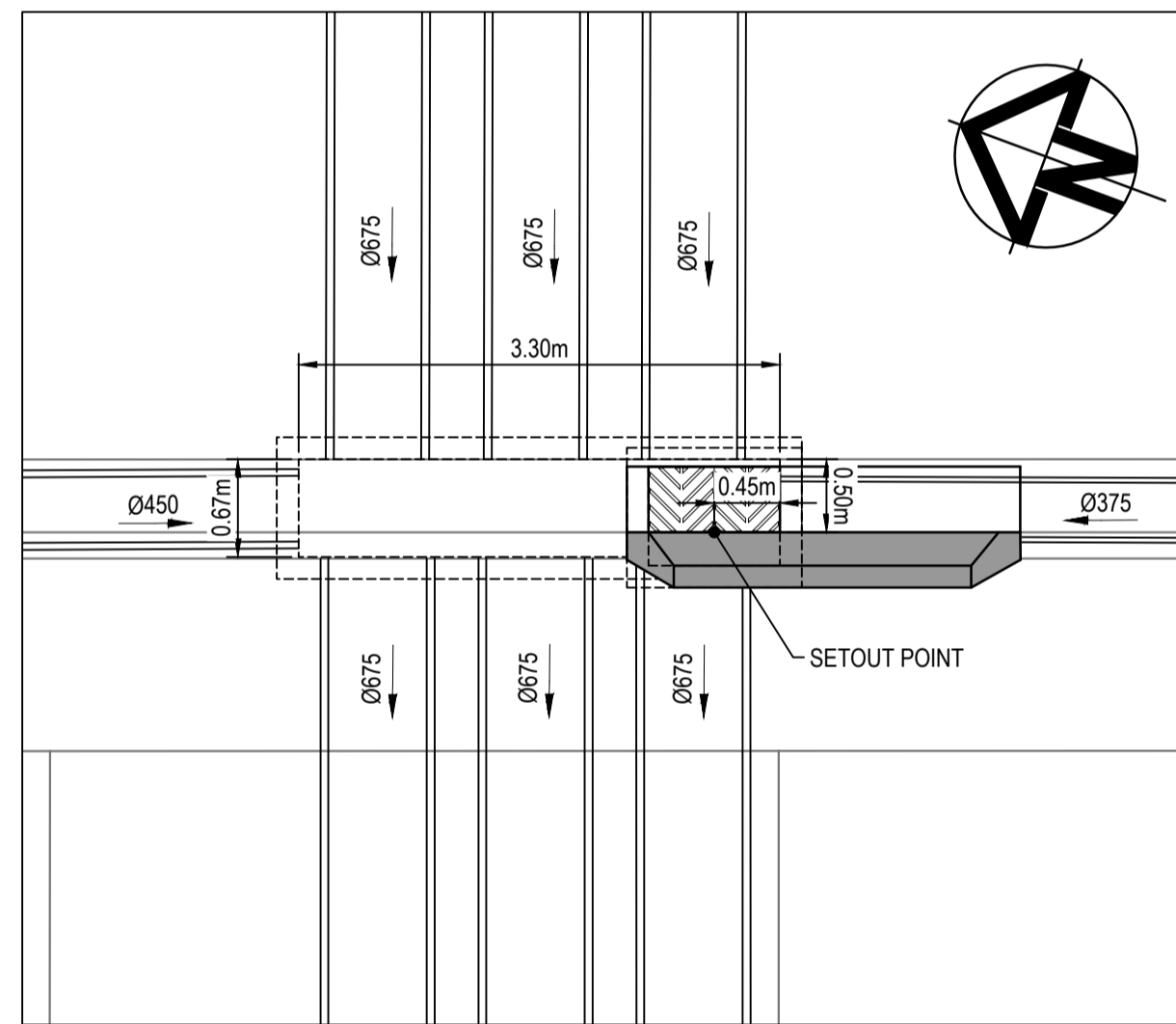
PIT M1A-1
1:50



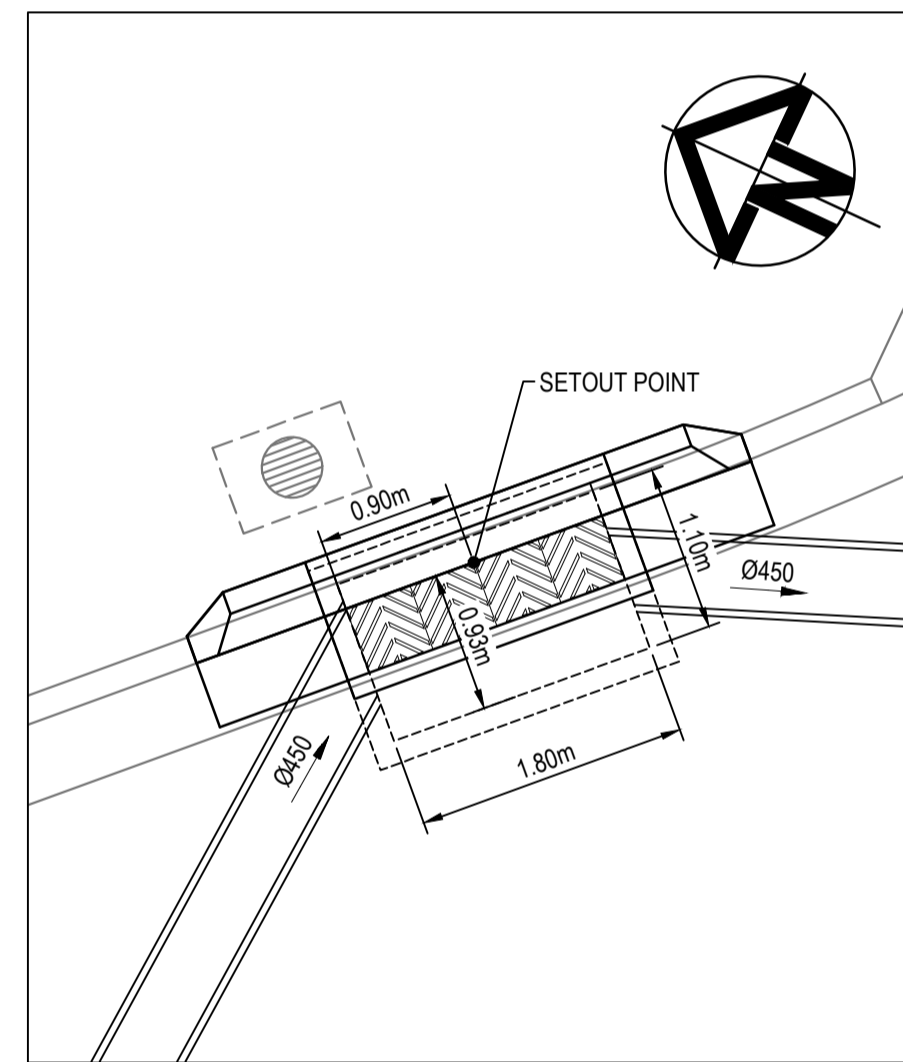
PIT M1A-2
1:50



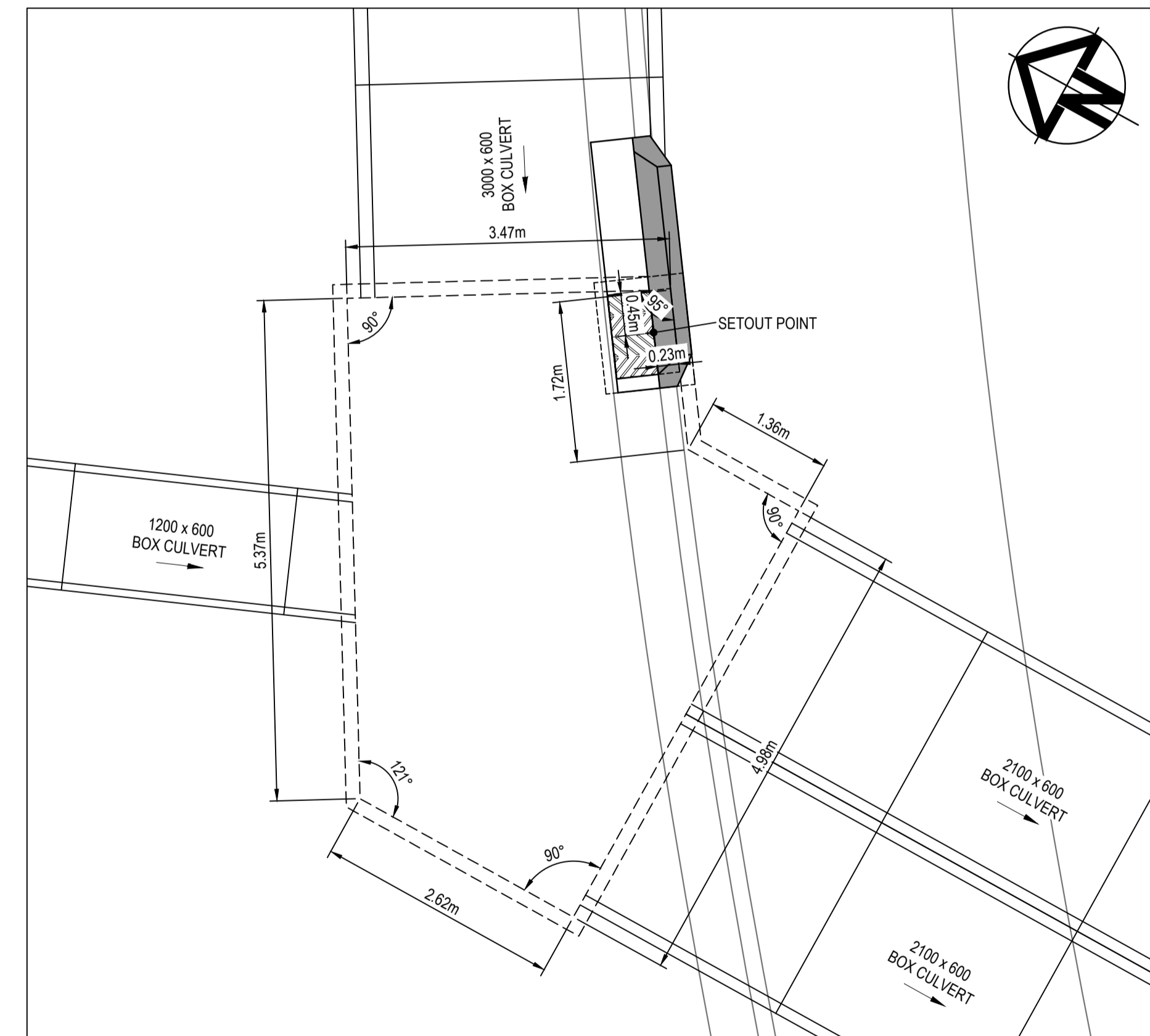
PIT M1-2
1:50



PIT XD28-3
1:50



PIT M2-2
1:50



PIT M1-3
1:50

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.



1:50 @ A1 1:100 @ A3

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TFNSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title

STORMWATER DRAINAGE DETAILS SHEET 5

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Status	FOR APPROVAL	A1
Project - Drawing No.	SM-2455	Issue
		1

DRAINAGE CALCULATIONS TABLE

INITIAL LOSS - CONTINUING LOSS METHOD CALCULATION SUMMARY SHEET

DRAINS results prepared from Version 2023.09.8650.23842

Initial Losses	EIA	RIA	PA	Entire Catchment Area
Continuing Losses	User to enter			EIA 2.252 ha (63.3%)
				RIA 0 ha (0%)
				PA 1.302 ha (36.6%)
				Total Area 3.555 ha

LOCATION AND LAND-USE				TIME AND RUNOFF						INLET DESIGN					PIPE SYSTEM DESIGN										PIT RESULTS														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	29a	29b	30	31	32	33					
AEP	Pit, Node or Basin Name	Sub-Catchment Area (ha)	Land-Use Type (L-CL)	Percentage (%)	Constant Flow Time (minutes)	Kinematic Length (m)	Wave Slope (%)	Formula Parameters Roughness n	Total Entry Time, t _c (minutes)	Peak Sub-Catchment Flowrate (m ³ /s)	Origin of Flows	Overflows Peak Flowrate (m ³ /s)	Approaching Pit Flow Width (m)	Depth x Velocity (m ² /s)	Inlet Family	Inlet Size	Peak Approach Flow (m ³ /s)	Bypass Flow (m ³ /s)	Peak Flow in Pipe (m ³ /s)	Reach Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff. Ku	QUDM Chart No. [2016]	QUDM Chart Ratios	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name					
10%	XD28-1	0.2181	EIA	50	6				6	0.041	XD28-1A	0	0	0			0.041	0	0.862	10.924	0.49	600	41.624	41.57	41.991	41.937	1.59	0.5			42.19	43.31	1.12	XD28-1					
1%	XD28-1	0.2181	RIA	0	0				0		XD28-1B	0.014	1.44	0.01																	43.05	43.31	0.26	XD28-1					
10%	XD28-2	0.0856	EIA	80	6				6	0.025	M 5-2	0.052	1.48	0.04	Kerb Inlet I KIP 400x9		0.077	0	0.885	27.261	0.5	600	41.57	41.433	41.879	41.742	2.02	0.52	1-25 [A2-3]	Du/Do=1.00, Qg/Qo=0.03, S/Do=1.0	41.94	42.798	0.86	XD28-2					
1%	XD28-2	0.0856	RIA	0	0				0		M 5-4	0.036	1.73	0.03																				42.42	42.798	0.38	XD28-2		
10%	XD28-3	0.1279	EIA	80	6				6	0.038	M 4-3	0	0	0	Kerb Inlet I KIP 400x9		0.038	0.037	0.905	8.29	0.49	675	41.433	41.392	41.731	41.69	1.99	0.65	1-20 [A2-3]	Du/Do=1.00, Qg/Qo=0.04, S/Do=1.0	41.74	42.994	1.26	XD28-3					
1%	XD28-3	0.1279	RIA	0	0				0																										42.01	42.994	0.99	XD28-3	
10%	XD31-1	0.0826	EIA	50	6				6	0.015	M 8-3	0.025	2.56	0.02			0.017	0	1.786	9.886	0.51	3W x 0.75H	41.788	41.738	42.151	42.101	1.64	0.5			42.32	42.547	0.23	XD31-1					
1%	XD31-1	0.0826	RIA	0	0				0		M 12-0	0	0	0																					42.84	42.547	-0.29	XD31-1	
10%	XD31-2		EIA	0	0				0						PIPE CON	PIPE CON	0		1.813	31.934	0.5	3W x 0.75H	41.738	41.578	42.074	41.804	2.68	not calculated			42.1	43.283	1.18	XD31-2					
1%	XD31-2		RIA	0	0				0								0		4.734																42.43	43.283	0.86	XD31-2	
10%	XD29-1	0.1053	EIA	0	6				6	0.012							0.012	0	4.344	47.88	0.5	3.4W x 0.9H	41.706	41.467	42.377	42.224	1.35	0.4			42.4	43.741	1.34	XD29-1					
1%	XD29-1	0.1053	RIA	0	0				0								0.036	0	10.172																	42.98	43.741	0.76	XD29-1
10%	M1A-2	0.0186	EIA	80	6				6	0.006	M1B-1	0.022	0	0	TNSW SE	TNSW SE	0.007	0.018	0.615	20.32	1	2W x 0.6H	42.136	41.933	42.605	42.603	1.09	not calculated			42.64	43.925	1.28	M1A-2					
1%	M1A-2	0.0186	RIA	0	0				0								0.008	0.036	0.37	0.01																44.01	43.925	0	M1A-2
10%	M1B-1	0.0745	EIA	80	6				6	0.022					TNSW SE	TNSW SE	0.022	0.03	0.02	13.287	1	450	42.289	42.156	42.647	42.644	0.15	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.00	42.65	44.215	1.57	M1B-1					
1%	M1B-1	0.0745	RIA	0	0				0								0.034	0.254	0.052																	44.01	44.215	0.2	M1B-1
10%	M3-2	0.0525	EIA	80	6				6	0.016	M 3-1				Kerb Inlet I KIP 400x9		0.016	0	0.015	48.045	0.5	375	41.792	41.551	41.868	41.747	0.91	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	41.92	43.115	1.19	M3-2					
1%	M3-2	0.0525	RIA	0	0				0								0.024	0	0.023																	42.02	43.115	1.09	M3-2
10%	M3-3		EIA	0	0				0		M 3-2	0.029	1.91	0.04	Kerb Inlet I KIP 400x9		0	0	0.032	15.577	0.5	450	41.531	41.453	41.738	41.739	0.46	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	41.75	42.991	1.24	M3-3					
1%	M3-3		RIA	0	0				0			0.044	2.35	0.05					0.037																42.02	42.991	0.97	M3-3	
10%	M4-1	0.115	EIA	80	6				6	0.034	M 4-0	0.009	1.55	0.01	Kerb Inlet I KIP 400x9		0.034	0	0.032	50.404	0.5	375	42.148	41.896	42.26	42.049	1.16	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	42.3	43.607	1.3	M4-1					
1%	M4-1	0.115	RIA	0	0				0			0.017	2.65	0.02					0.052	0.001	0.052														42.37	43.607	1.24	M4-1	
10%	M4-2	0.0536	EIA	80	6				6	0.016	M 4-1	0.005	0.75	0.02	Kerb Inlet I KIP 400x9		0.016	0	0.048	49.199	0.5	375	41.876	41.63	42.018	41.803	1.26	1.51	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.33, S / Do = 1.0	42.05	43.366	1.32	M4-2					
1%	M4-2	0.0536	RIA	0	0				0			0.01	1.23	0.02					0.074																42.11	43.366	1.25	M4-2	

1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client	FRASERS PROPERTY	ESR	Stockland	FIFECAPITAL
Scales	NTS	Drawn	GB	Project
		Designed	GB	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Grid	GDA2020	Checked	AL	
Height Datum	AHD	Approved		
TNSW REGISTRATION No.	DS2000/000000			Title
				STORMWATER DRAINAGE ANALYSIS TABLE SHEET 1
				Status
				FOR APPROVAL
				NOT TO BE USED FOR CONSTRUCTION
				Project - Drawing No.
				SM-2461
				Issue
				1

Civil Engineers and Project Managers

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Date Plotted: 3 Nov 2023 - 06:15PM File Name: F:\V21-843 Aldington Road Design\6.0 Drgs\Civil\Final\2000_Mamre Rd Abbotts Rd Intersection Design\21-843-06-SM-2461.dwg

DRAINAGE CALCULATIONS TABLE

INITIAL LOSS - CONTINUING LOSS METHOD CALCULATION SUMMARY SHEET

DRAINS results prepared from Version 2023.09.8650.23842

Initial Losses	EIA	RIA	PA	Entire Catchment Area
	0.0668	0.0000	0.0000	EIA 2.252 ha (63.3%)
Continuing Losses	0.0668	0.0000	0.0000	RIA 0 ha (0%)
	0.0668	0.0000	0.0000	PA 1.302 ha (36.6%)
				Total Area 3.555 ha

LOCATION AND LAND-USE				TIME AND RUNOFF				INLET DESIGN					PIPE SYSTEM DESIGN							PIT RESULTS																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	29a	29b	30	31	32	33				
AEP	Pit, Node or Basin Name	Sub-Catchment Area (ha)	Land-Use Type (L-CL)	Percentage (%)	Constant Flow Time (minutes)	Kinematic Length (m)	Wave or Friends Slope (%)	Formula Parameters Roughness n	Total Entry Time, t _c (minutes)	Peak Sub-Catchment Flowrate (m ³ /s)	Origin of Approach Flows	Overflows Peak Flowrate (m ³ /s)	Approaching Pit Flow Width (m)	Depth x Velocity (m ² /s)	Inlet Family	Inlet Size	Peak Approach Flow (m ³ /s)	Bypass Flow (m ³ /s)	Peak Flow in Pipe (m ³ /s)	Reach Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff.	QUDM Chart No. [2016]	QUDM Chart Ratios	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name				
10%	M4-3	0.0668	EIA	80	6				6	0.02	M4-2	0.019	1.71	0.04	Kerb Inlet KIP 400x9	400x9	0.02	0	0.064	31.277	0.5	375	41.61	41.453	41.774	41.739	1.38	1.4	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.29, S / Do = 1.1	41.8	43.101	1.3	M4-3				
1%	M4-3	0.0668	EIA	<----- as above ----->					6	0.03	M4-2	0.03	2.1	0.04	<--- as above --->		0.03	0.001	0.1	<----- as above ----->						42.018	42.006	0.91	1.35	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.29, S / Do = 1.6	42.03	43.101	1.07	M4-3			
10%	M5-1	0.0831	EIA	80	6				6	0.025	M2-2				Kerb Inlet KIP 400x9	400x9	0.025	0	0.023	48.005	0.5	375	42.122	41.882	42.218	42.077	1.05	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	42.29	43.134	0.84	M5-1				
1%	M5-1	0.0831	EIA	<----- as above ----->					6	0.037	M2-2				<--- as above --->		0.037	0	0.036	<----- as above ----->						42.476	42.472	0.33	5.08	A1-4 [A2-3]	H / Do = 0.4, Vo2 / (2gDo) = 0.04	42.49	43.134	0.65	M5-1			
10%	M5-2	0.1229	EIA	80	6				6	0.037	M5-1	0	0	0	Kerb Inlet KIP 400x9	400x9	0.037	0.001	0.057	41.267	0.5	375	41.862	41.655	42.016	41.937	1.34	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.04	42.08	42.894	0.82	M5-2				
1%	M5-2	0.1229	EIA	<----- as above ----->					6	0.055	M5-1	0.186	10.19	0.03	<--- as above --->		0.241	0.002	0.087	<----- as above ----->						42.431	42.423	0.79	1.71	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.50, S / Do = 2.0	42.47	42.894	0.42	M5-2			
10%	M6-1	0.0894	EIA	80	6				6	0.027	M6-0	0.053	1.98	0.04	Kerb Inlet KIP 400x9	400x9	0.027	0	0.029	71.686	1	375	42.465	41.748	42.55	41.854	1.56	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	42.59	43.777	1.19	M6-1				
1%	M6-1	0.0894	EIA	<----- as above ----->					6	0.04	M6-0	0.12	2.52	0.09	<--- as above --->		0.04	0	0.046	<----- as above ----->						42.577	41.9	1.66	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	42.62	43.777	1.16	M6-1			
10%	M6-2	0.1001	EIA	80	6				6	0.03	M6-1	0.033	2.47	0.04	Kerb Inlet KIP 400x9	400x9	0.03	0	0.056	8.276	1	450	41.673	41.59	41.785	41.708	1.8	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	41.85	43.4	1.55	M6-2				
1%	M6-2	0.1001	EIA	<----- as above ----->					6	0.045	M6-1	0.051	2.88	0.05	<--- as above --->		0.045	0.001	0.083	<----- as above ----->						41.823	41.821	1.8	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.03	41.9	43.4	1.5	M6-2			
10%	M8-1	0.1324	EIA	80	6				6	0.039	M7-0	0	0	0	Kerb Inlet KIP 400x9	400x9	0.039	0	0.037	21.437	0.7	375	42.439	42.289	42.548	42.425	1.38	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	42.61	43.58	0.97	M8-1				
1%	M8-1	0.1324	EIA	<----- as above ----->					6	0.06	M7-0	0	0	0	<--- as above --->		0.06	0.003	0.052	<----- as above ----->						42.572	42.464	1.48	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.04	42.66	43.58	0.92	M8-1			
10%	M8-2	0.0182	EIA	80	6				6	0.005	M8-1	0.026	2.06	0.04	Kerb Inlet KIP 400x9	400x9	0.005	0	0.041	46.328	0.7	375	42.269	41.945	42.386	42.113	1.39	1.7	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.38, S / Do = 1.1	42.43	43.574	1.15	M8-2				
1%	M8-2	0.0182	EIA	<----- as above ----->					6	0.008	M8-1	0.04	2.5	0.05	<--- as above --->		0.008	0	0.061	<----- as above ----->						42.449	42.444	1.17	1.67	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.39, S / Do = 1.6	42.46	43.574	1.11	M8-2			
10%	M8-3	0.0666	EIA	80	6				6	0.02	M8-2	0.037	0.32	0.01	Kerb Inlet KIP 400x9	400x9	0.021	0	0.059	13.157	0.7	375	41.925	41.833	42.101	42.101	1.17	1.5					42.11	43.329	1.22	M8-3		
1%	M8-3	0.0666	EIA	<----- as above ----->					6	0.03	M8-2	0.057	0.38	0.01	<--- as above --->		0.032	0	0.088	<----- as above ----->						42.431	42.427	0.79	1.5					42.44	43.329	0.88	M8-3	
10%	M16-1	0.1841	EIA	50	6				6	0.034	M16-0	0	0	0			0.034	0	0.031	6.237	0.5	375	42.471	42.44	42.738	42.736	0.37	0.5					42.74	42.946	0.21	M16-1		
1%	M16-1	0.1841	EIA	<----- as above ----->					6	0.064	M16-0	0	0	0			0.064	0.186	0.121	<----- as above ----->						43.452	43.451	1.09	0.5					43.45	42.946	-0.51	M16-1	
10%	M16-2	0.0155	EIA	80	6				6	0.005	M16-1	0.054	3.54	0.04			0.03	0.052																	42.74	42.815		M16-2
1%	M16-2	0.0155	EIA	<----- as above ----->					6	0.007	M16-1	0.133	9.26	0.09			0.053	0.226																	43.45	42.815		M16-2
10%	XD32-0	0.14	EIA	50	6				6	0.026							0.026	0.025																	42.9	42.828		XD32-0
1%	XD32-0	0.14	EIA	<----- as above ----->					6	0.048							0.048	0.046																	43.45	42.828		XD32-0
10%	M12-1	0.6301	EIA	50	6				6	0.117	XD31-1A	0	0	0			0.124	0	0.078	35.303	0.5	450	41.802	41.625	41.897	41.72	1.06	0.5					41.98	43.761	1.78	M12-1		
1%	M12-1	0.6301	EIA	<----- as above ----->					6	0.218	XD31-1A	0	0	0			0.23	0	0.29	<----- as above ----->						41.991	41.814	1.52	0.5					42.15	43.761	1.62	M12-1	

1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client	FRASERS PROPERTY	ESR	Stockland	FIFECAPITAL
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Scales	NTS
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE ANALYSIS TABLE SHEET 2

Civil Engineers and Project Managers	
	
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Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2462
Issue	1

DRAINAGE CALCULATIONS TABLE

INITIAL LOSS - CONTINUING LOSS METHOD CALCULATION SUMMARY SHEET

DRAINS results prepared from Version 2023.09.8650.23842

Initial Losses	EIA	RIA	PA	Entire Catchment Area	
	User to enter	User to enter	User to enter	EIA 2.252 ha (63.3%)	RIA 0 ha (0%)
Continuing Losses	EIA	RIA	PA	Total Area 3.555 ha	
	User to enter	User to enter	User to enter		


LOCATION AND LAND-USE				TIME AND RUNOFF					INLET DESIGN					PIPE SYSTEM DESIGN										PIT RESULTS											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	29a	29b	30	31	32	33	
AEP	Pit, Node or Basin Name	Sub-Catchment Area (ha)	Land-Use Type (L-CL)	Percentage (%)	Constant Flow Time (minutes)	Kinematic Wave Length (m)	Wave Formula Parameters Slope (%)	Wave Formula Parameters Roughness n	Total Entry Time, t _c (minutes)	Peak Sub-Catchment Flowrate (m ³ /s)	Origin of Flows	Overflows Approach (m ³ /s)	Approaching Pit Flow (m)	Depth x Velocity (m ² /s)	Inlet Family	Inlet Size	Peak Approach Flow (m ³ /s)	Bypass Flow(s) (m ³ /s)	Peak Flow in Pipe (m ³ /s)	Reach Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff. Ku	QUDM Chart No. [2016]	QUDM Chart Ratios	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name	
10%	M14-1		EIA	0							M16-2	0.021	1.41	0.02			0	0	0.481	6.139	1.37	375	42.214	42.13	42.464	42.38	2.05	0.5			42.74	43.49	0.75	M14-1	
1%	M14-1		RIA	0							XD32-0	0.032	3.04	0.03					0.816	<----- as above ----->					42.584	42.5	2.47	0.5			43.45	43.49	0.04	M14-1	
10%	M14-2		EIA	0													0		0.481	12.395	1.37	375	42.13	41.96	42.337	42.167	2.56	0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.1	42.38	43.332	0.95	M14-2	
1%	M14-2		RIA	0															0.816	<----- as above ----->					42.437	42.267	2.81	0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.2	42.5	43.332	0.83	M14-2	
10%	M15-1	0.1712	EIA	50	6				6	0.032	M15-1A	0.016	2.01	0.01			0	0.032	0	0.104	17.996	0.72	600	42.18	42.05	42.293	42.163	1.42	0.5			42.41	43.359	0.94	M15-1
1%	M15-1	0.1712	RIA	0	8				0	0.059	M15-1B	0	0	0				0.075	0	0.265	<----- as above ----->					42.36	42.23	1.85	0.5			42.55	43.359	0.81	M15-1
10%	M2-1	0.0477	EIA	80	6				6	0.014							0.014	0.007	0.007	12.479	0.5	450	42.222	42.16	42.422	42.422	0.11	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.00	42.42	43.39	0.97	M2-1	
1%	M2-1	0.0477	RIA	0	8				0	0.022							0.022	0.012	0.019	<----- as above ----->					43.268	43.268	0.12	3.48	A1-4 [A2-3]	H / Do = 1.4, Vo2 / (2gDo) = 0.00	43.27	43.39	0.12	M2-1	
10%	M2-2	0.156	EIA	80	6				6	0.046	M1A-2	0.036	2.13	0.05	Kerb Inlet I KIP 400x9		0.046	0	0.048	17.648	0.5	450	42.14	42.052	42.414	42.414	0.47	5.93	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	42.42	43.216	0.79	M2-2	
1%	M2-2	0.156	RIA	0	8				0	0.07	M2-3								0.109	<----- as above ----->					43.258	43.256	0.69	3.26	A1-4 [A2-3]	H / Do = 1.5, Vo2 / (2gDo) = 0.13	43.27	43.216	0	M2-2	
10%	M2-3	0.0486	EIA	80	6				6	0.014							0.014	0.006	0.053	22.319	0.5	450	42.032	41.92	42.413	42.412	0.37	1.14	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.23, S / Do = 1.0	42.41	43.346	0.93	M2-3	
1%	M2-3	0.0486	RIA	0	8				0	0.022							0.022	0.012	0.111	<----- as above ----->					43.254	43.251	0.7	0.55	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.12, S / Do = 2.8	43.26	43.346	0.09	M2-3	
10%	M2-4	0.0864	EIA	80	6				6	0.026							0.026	0	0.062	16.476	0.5	450	41.9	41.818	42.41	42.409	0.39	1.5	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.32, S / Do = 1.1	42.41	43.32	0.91	M2-4	
1%	M2-4	0.0864	RIA	0	8				0	0.039							0.039	0	0.126	<----- as above ----->					43.245	43.241	0.79	0.73	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.20, S / Do = 3.1	43.25	43.32	0.07	M2-4	
10%	M2-5	0.1972	EIA	80	6				6	0.059	M2-4				Kerb Inlet I KIP 400x9		0.059	0	0.111	9.575	0.5	525	41.798	41.75	42.4	42.399	0.53	2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.47, S / Do = 1.4	42.41	43.174	0.77	M2-5	
1%	M2-5	0.1972	RIA	0	8				0	0.089	M2-4						0.089	0.044	0.35	<----- as above ----->					43.003	42.978	1.66	2.69	A1-4 [A2-3]	H / Do = 1.6, Vo2 / (2gDo) = 0.34	43.24	43.174	0	M2-5	
10%	M9-1	0.2651	EIA	50	6				6	0.049	M9-1B						0.049	0	0.35	27.27	0.5	450	42.519	42.383	42.729	42.593	1.6	0.5			42.9	43.55	0.65	M9-1	
1%	M9-1	0.2651	RIA	0	9				0	0.088	N 39 Abbotts Road						0.088	0	0.828	<----- as above ----->					42.887	42.751	1.98	0.5			43.24	43.55	0.31	M9-1	

1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

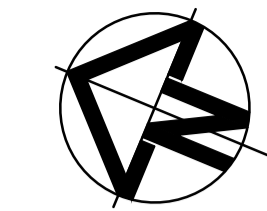
Client	 
Client	 

Scales	NTS	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000	Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER DRAINAGE ANALYSIS TABLE SHEET 3

Civil Engineers and Project Managers	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	SM-2463
Issue	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



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR (MAJOR)	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED SUBSURFACE DRAINAGE	

LOT 8
DP253503

LOT 10
DP1296455

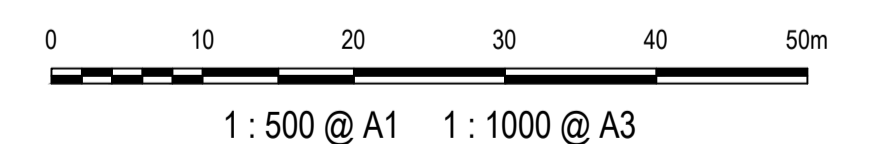
LOT 38
DP258414

LOT 39
DP258414

MAMRE ROAD

SYDNEY TO LINDI

FOR CONTINUATION REFER DRAWING SM-2482



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

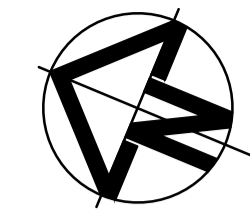
Title

SUBSURFACE DRAINAGE PLAN SHEET 1

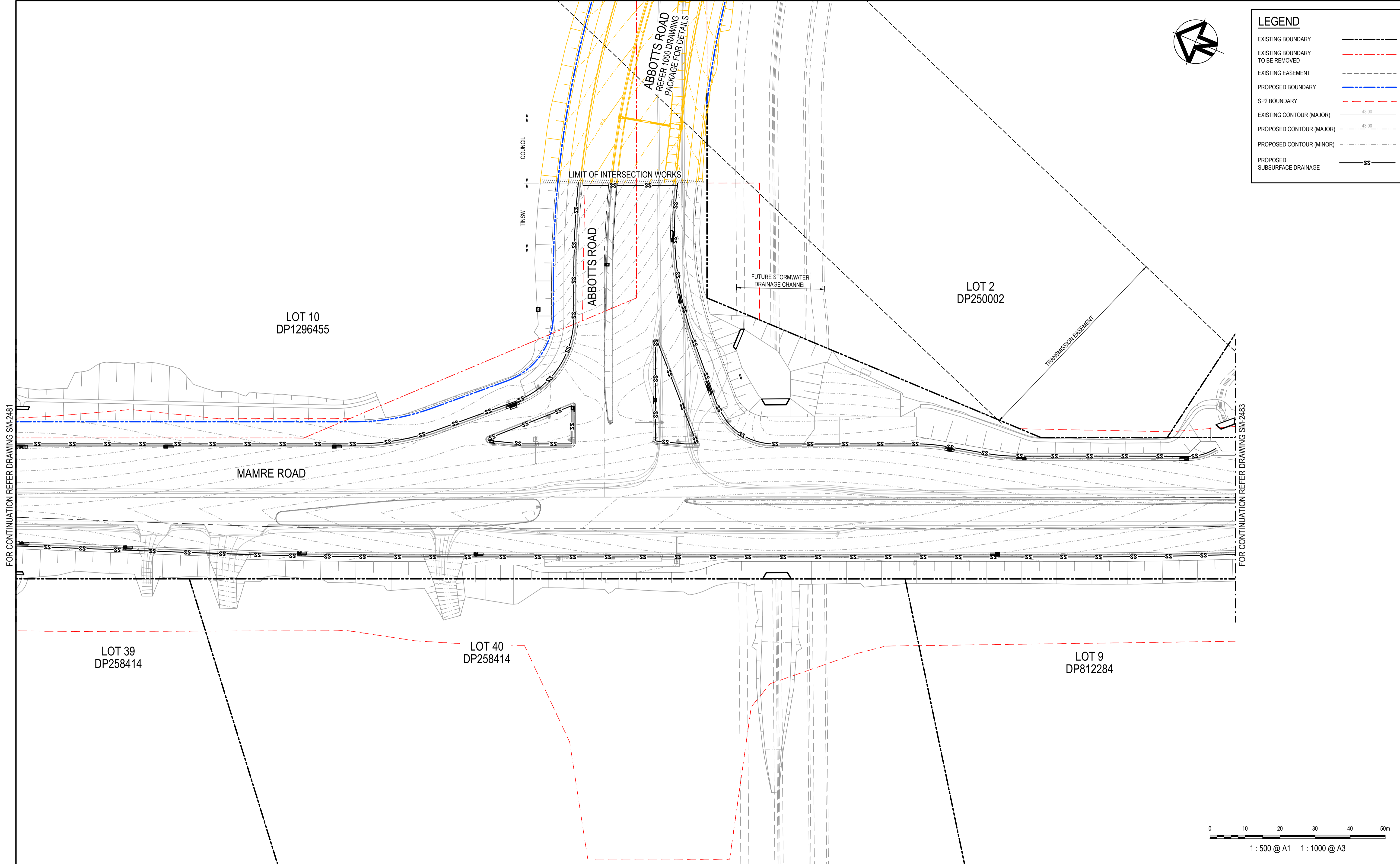
Civil Engineers and Project Managers

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 APPROVAL	A1
Project - Drawing No.	SM-2481	Issue
		1

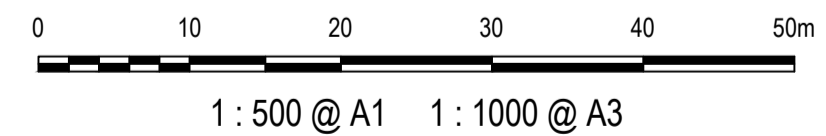


LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR (MAJOR)	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED SUBSURFACE DRAINAGE	



FOR CONTINUATION REFER DRAWING SM-2481

FOR CONTINUATION REFER DRAWING SM-2483



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

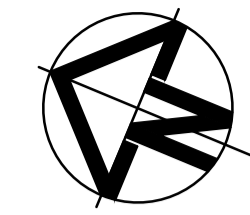
Client	
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Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

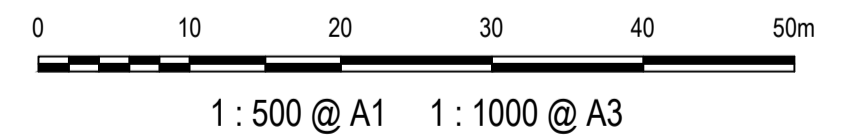
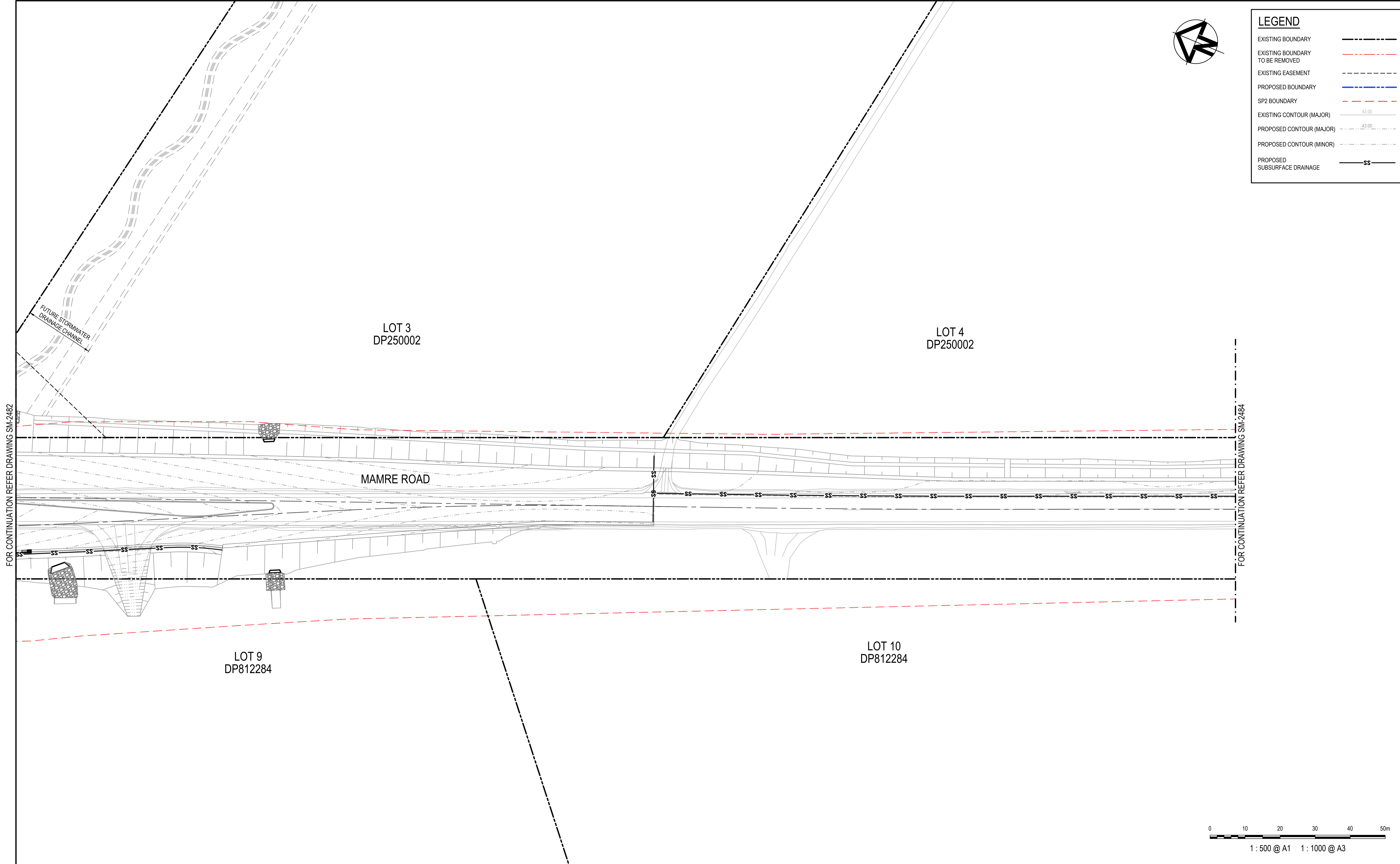
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTT'S ROAD PROPOSED SIGNALISED INTERSECTION
Title	SUBSURFACE DRAINAGE 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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2482
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR (MAJOR)	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED SUBSURFACE DRAINAGE	



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

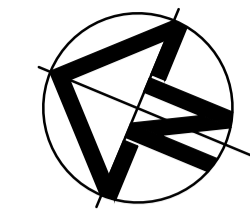
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Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SUBSURFACE DRAINAGE PLAN SHEET 3

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2483
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING CONTOUR (MAJOR)	
PROPOSED CONTOUR (MAJOR)	
PROPOSED CONTOUR (MINOR)	
PROPOSED SUBSURFACE DRAINAGE	

LOT 5
DP250002

LOT 6
DP250002

LOT 10
DP812284

MAMRE ROAD

LIMIT OF WORKS



1 : 500 @ A1 1 : 1000 @ A3

FOR CONTINUATION REFER DRAWING SM-2483

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Project

**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

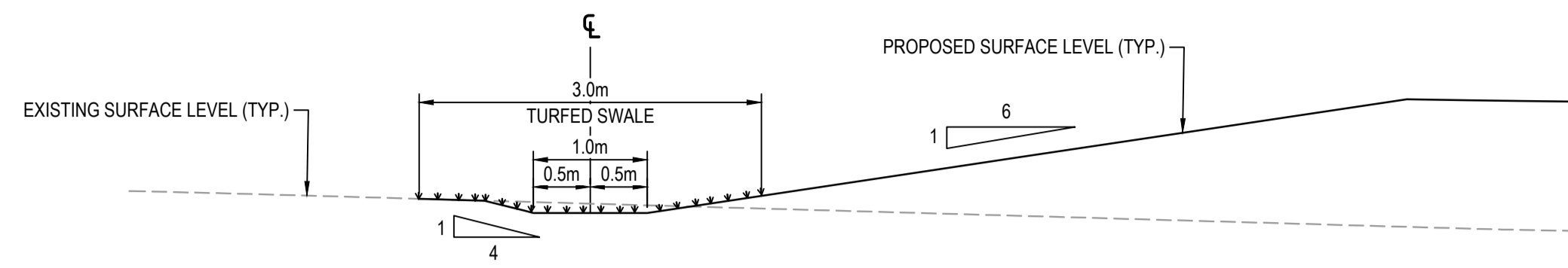
Title

**SUBSURFACE
DRAINAGE PLAN
SHEET 4**

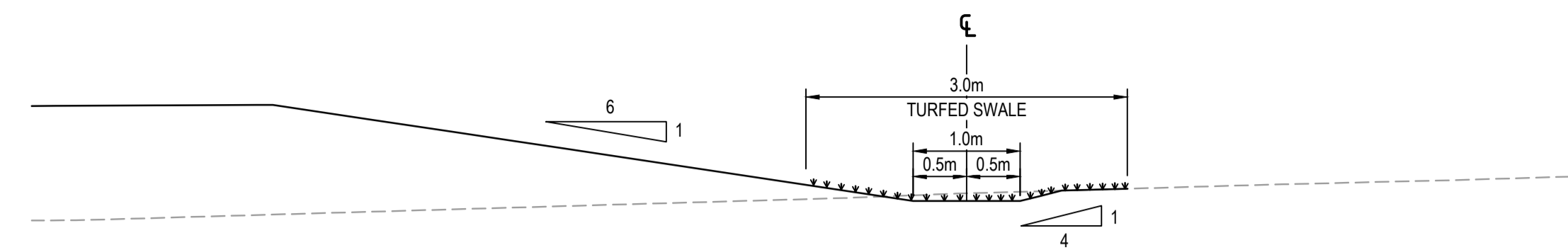
Civil Engineers and Project Managers

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

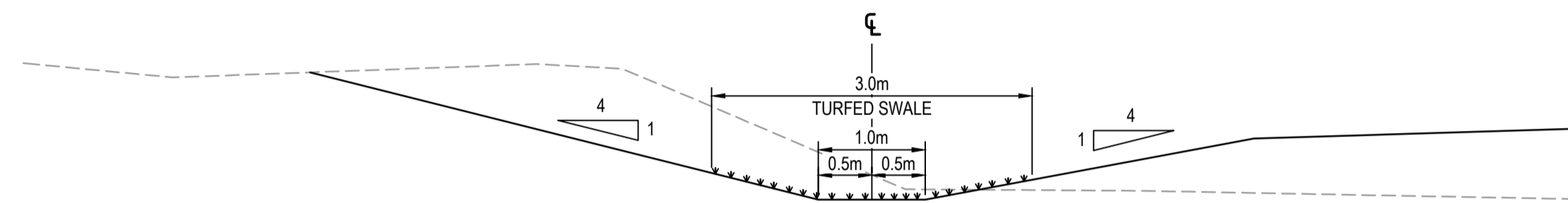
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	SM-2484	Issue
		1



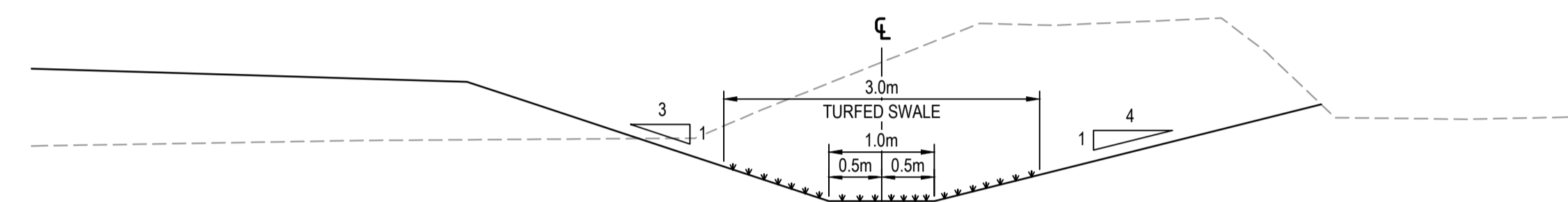
SECTION 1
1:50
SM-2401
SWALE 01 TYPICAL SECTION



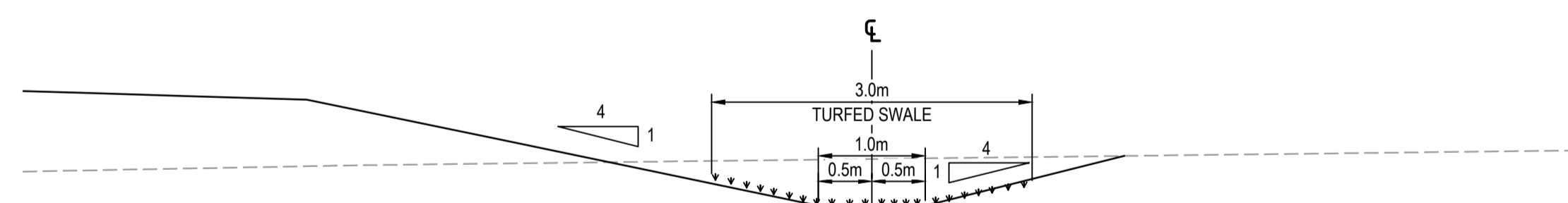
SECTION 2
1:50
SM-2401
SWALE 02 TYPICAL SECTION



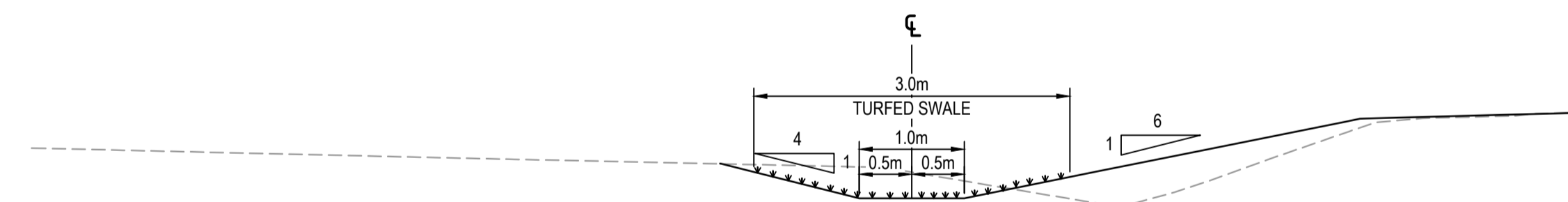
SECTION 3
1:50
SM-2402
SWALE 03 TYPICAL SECTION



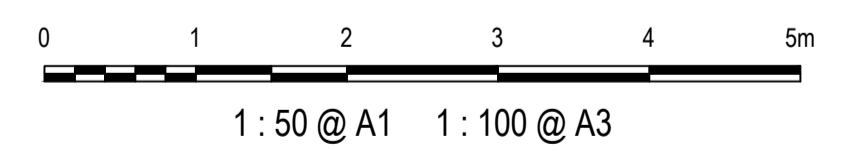
SECTION 4
1:50
SM-2402
SWALE 04 TYPICAL SECTION



SECTION 5
1:50
SM-2404
SWALE 05 TYPICAL SECTION



SECTION 6
1:50
SM-2407
SWALE 06 TYPICAL SECTION



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000		

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

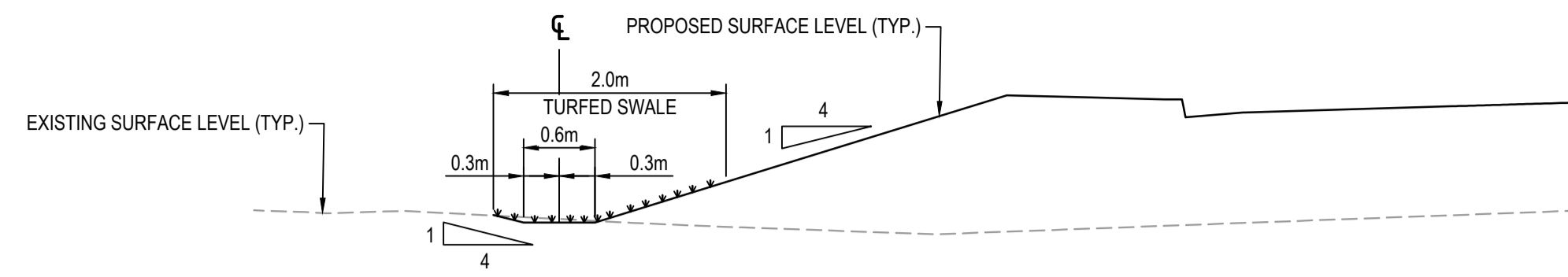
Title

STORMWATER SWALE SECTIONS SHEET 1

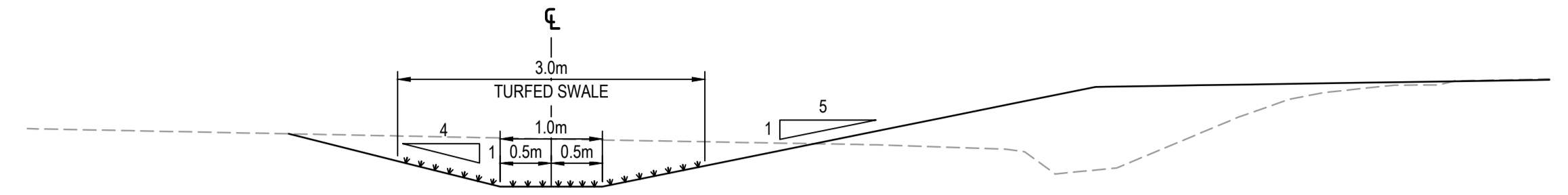
Civil Engineers and Project Managers

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

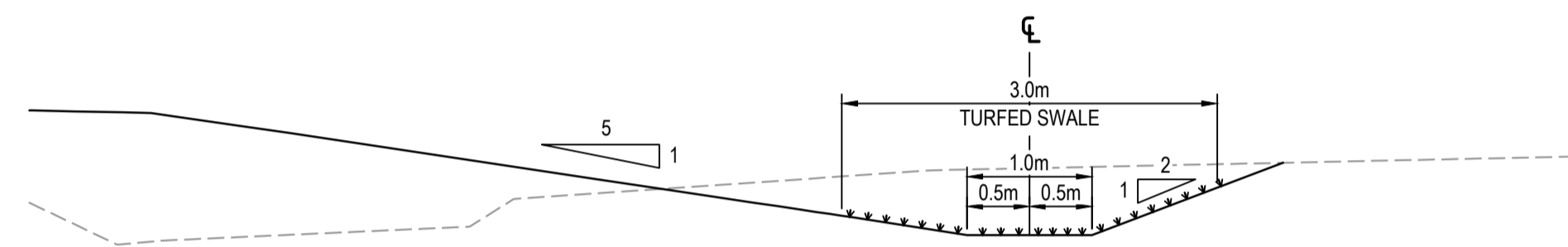
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	SM-2491	Issue
		1



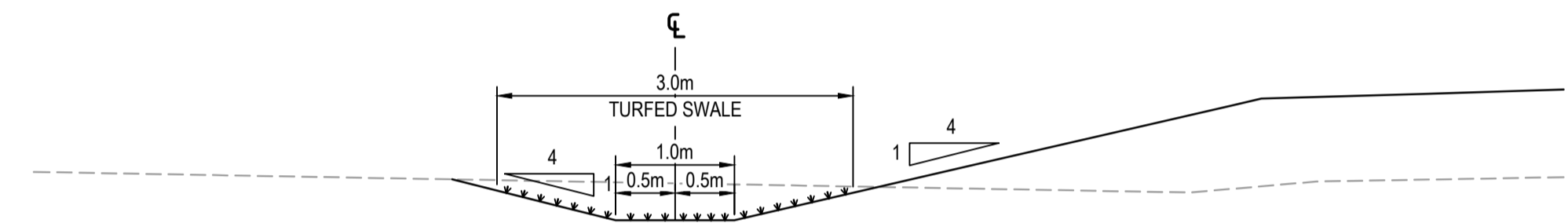
SECTION 7
1 : 50
SM-2404
SWALE 07 TYPICAL SECTION



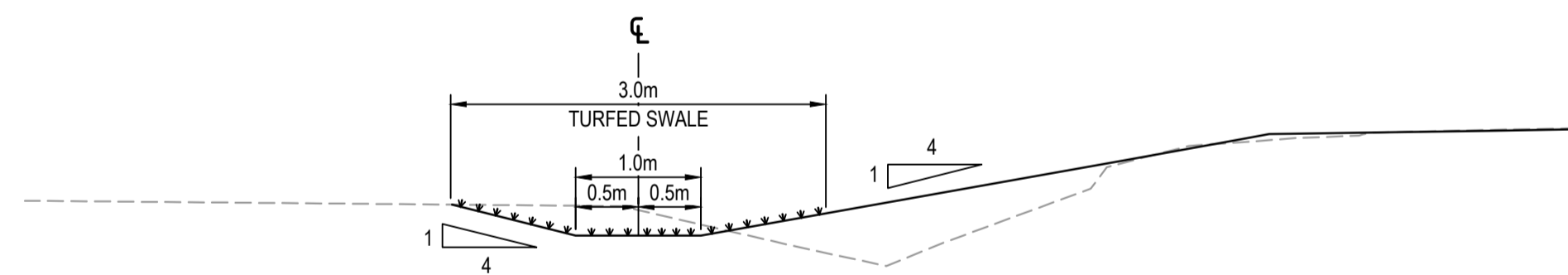
SECTION 8
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SM-2406
SWALE 08 TYPICAL SECTION



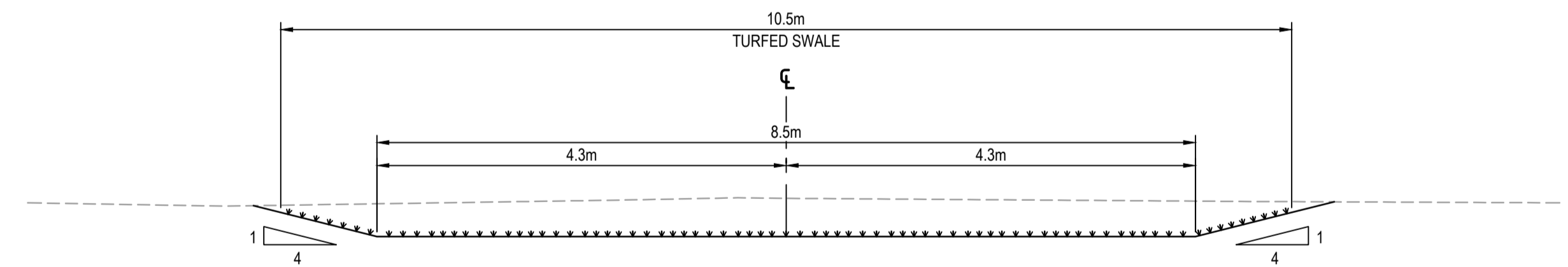
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SM-2406
SWALE 09 TYPICAL SECTION



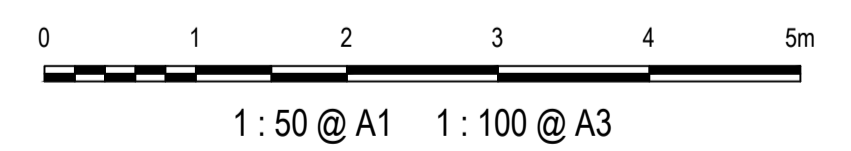
SECTION 10
1 : 50
SM-2404
SWALE 10 TYPICAL SECTION



SECTION 12
1 : 50
SM-2407
SWALE 12 TYPICAL SECTION



SECTION 13
1 : 50
SM-2403
SWALE 13 TYPICAL SECTION



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

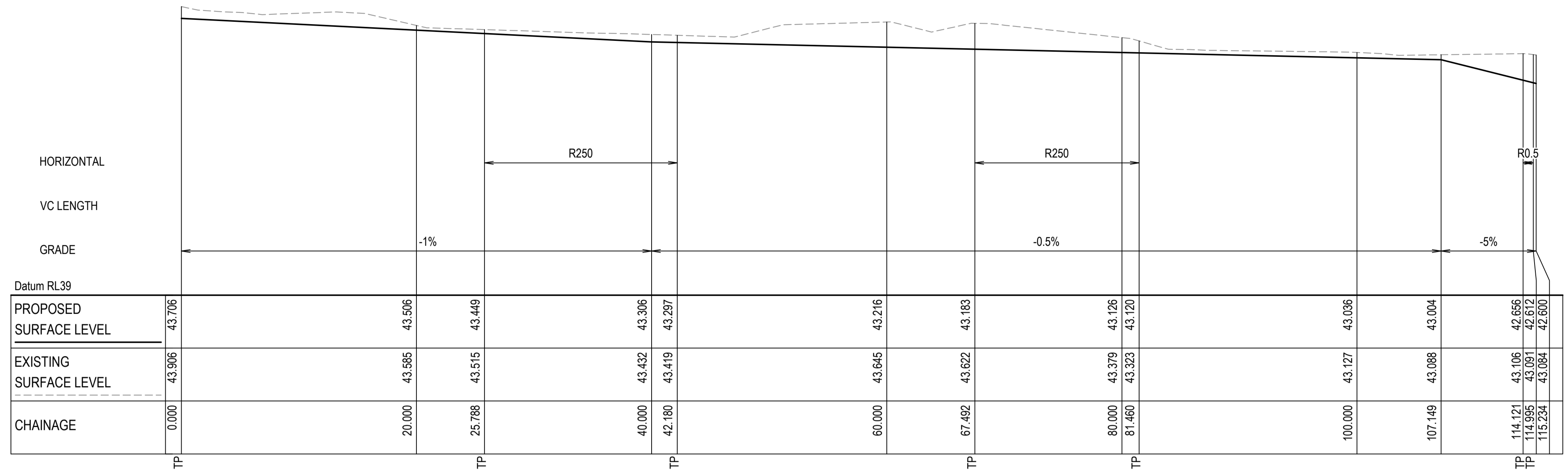
Client	
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Scales	AS SHOWN
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

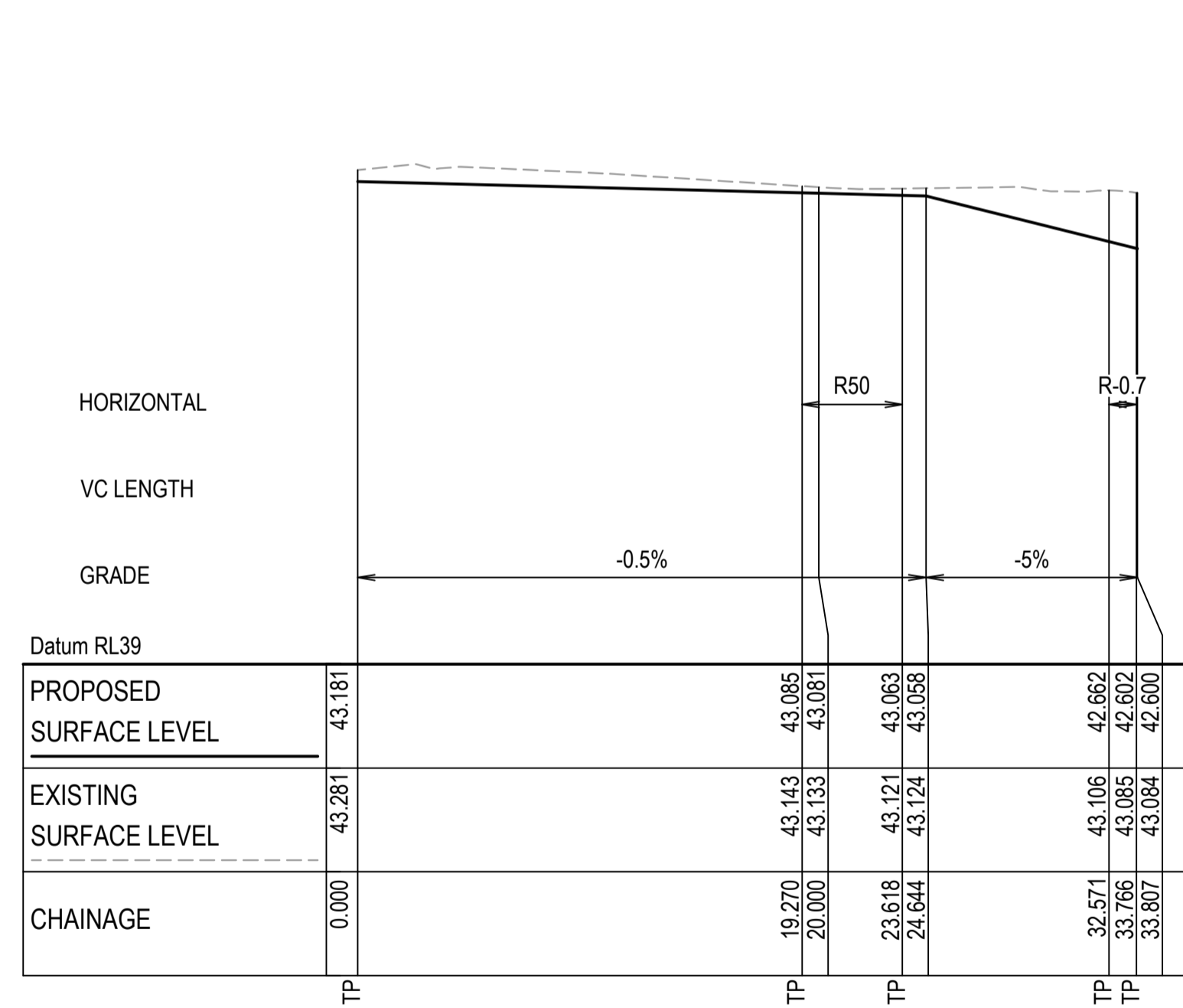
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER SWALE SECTIONS SHEET 2

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	SM-2492
Issue	1



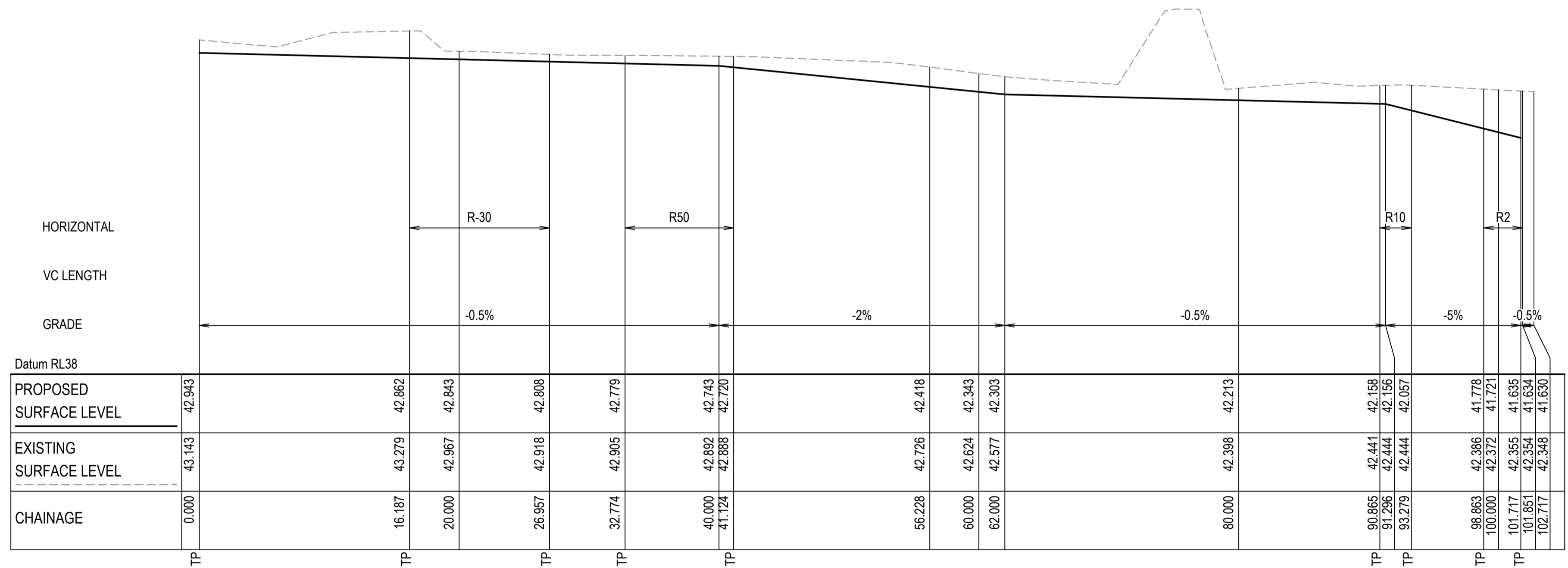
SWALE 01 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



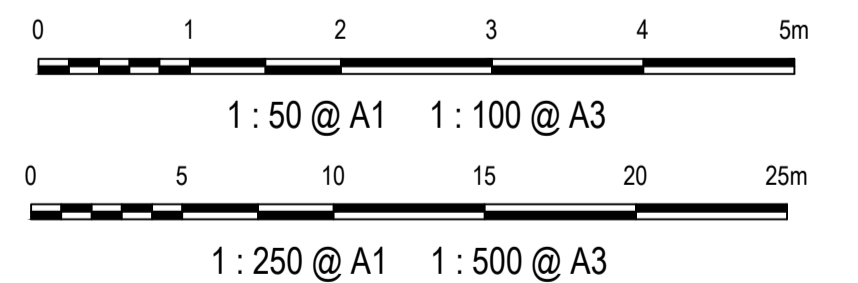
SWALE 02 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



SWALE 03 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales AS SHOWN

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No. DS2000/000000

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 1

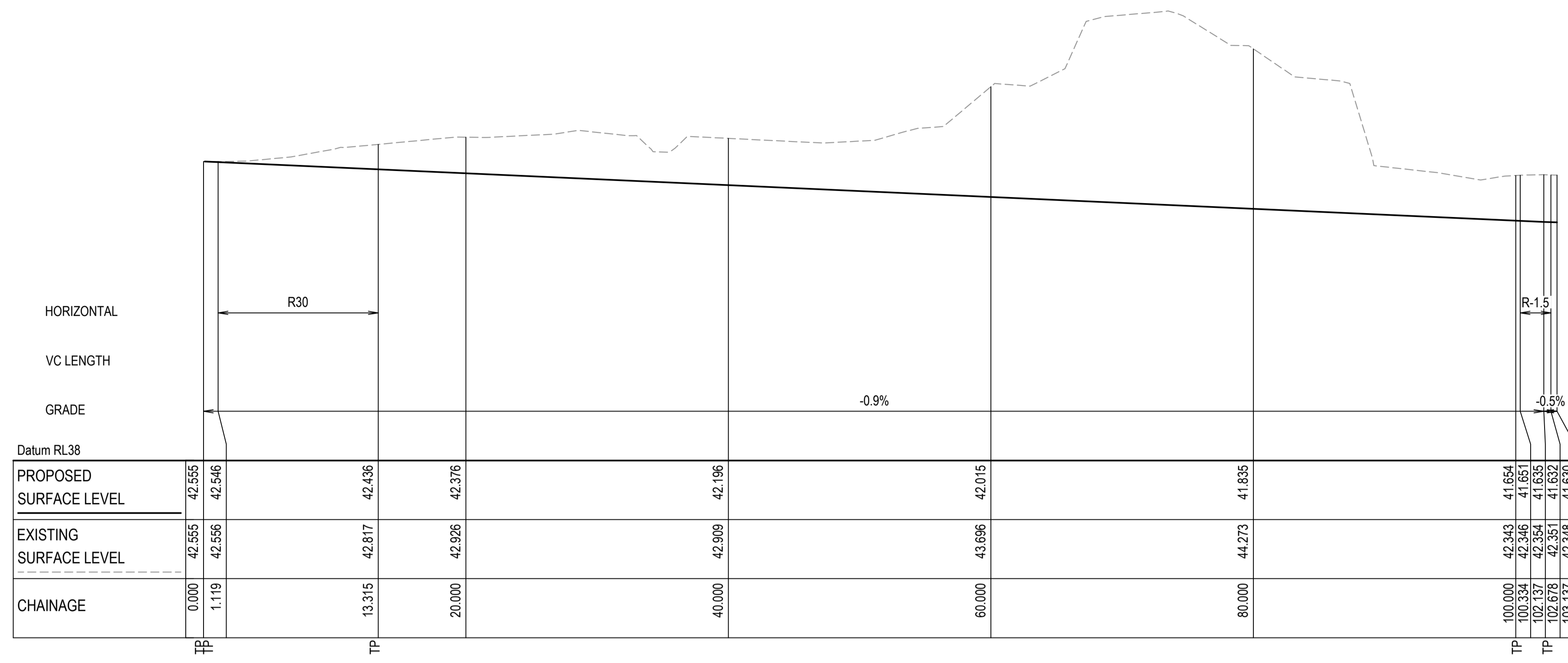
Civil Engineers and Project Managers

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

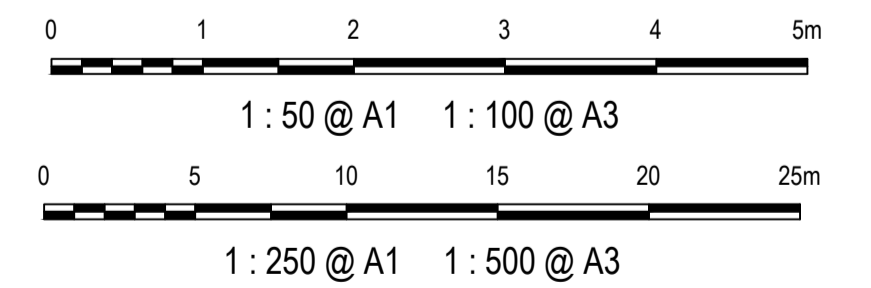
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. SM-2493

Issue 1



SWALE 04 LONGITUDINAL SECTION
 SCALE 1:250 HORI.
 1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

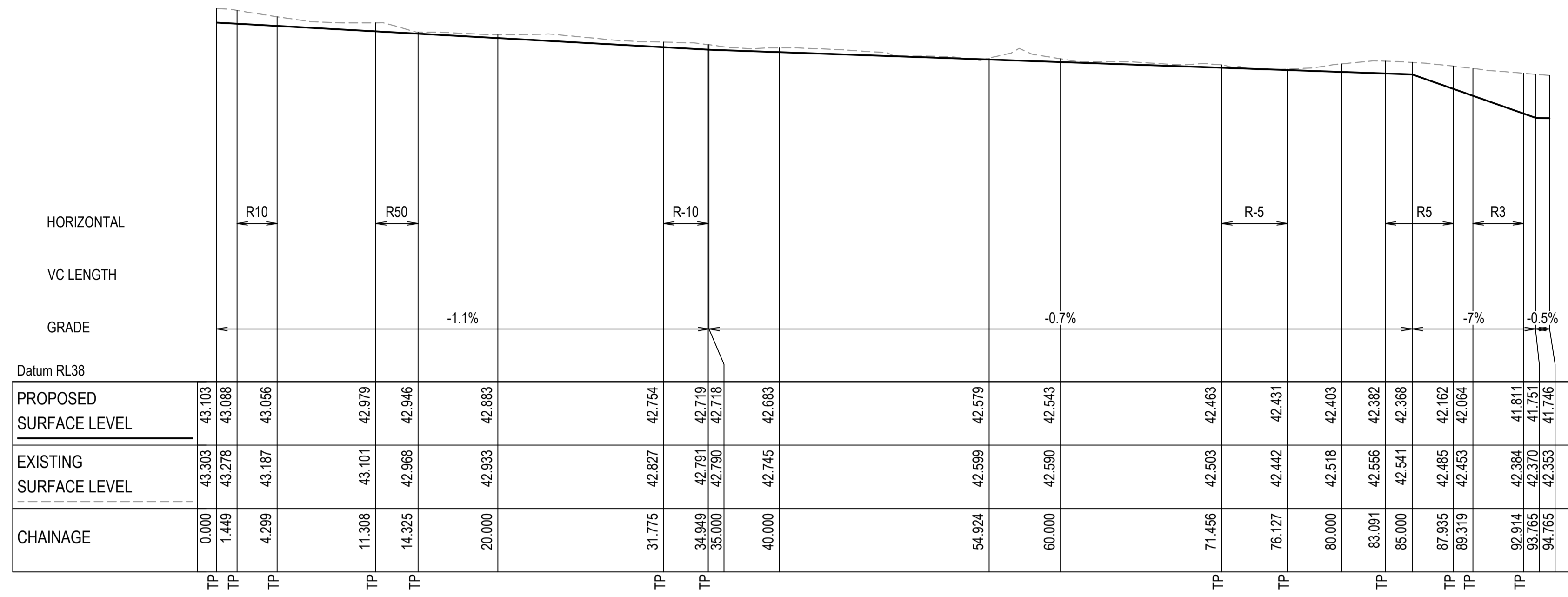
Client	
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Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
Height Datum	AHD	Approved	
TFNSW REGISTRATION No.	DS2000/000000		

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 2

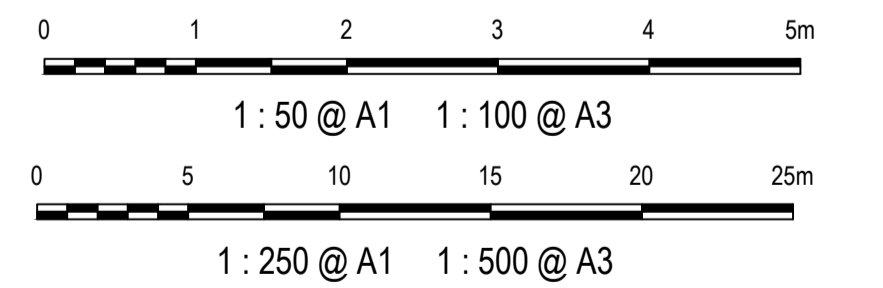
Civil Engineers and Project Managers	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	SM-2494
Issue	1

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	
--	--



SWALE 05 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales AS SHOWN

Grid GDA2020

Height Datum AHD

TNSW REGISTRATION No. DS2000/000000

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 3

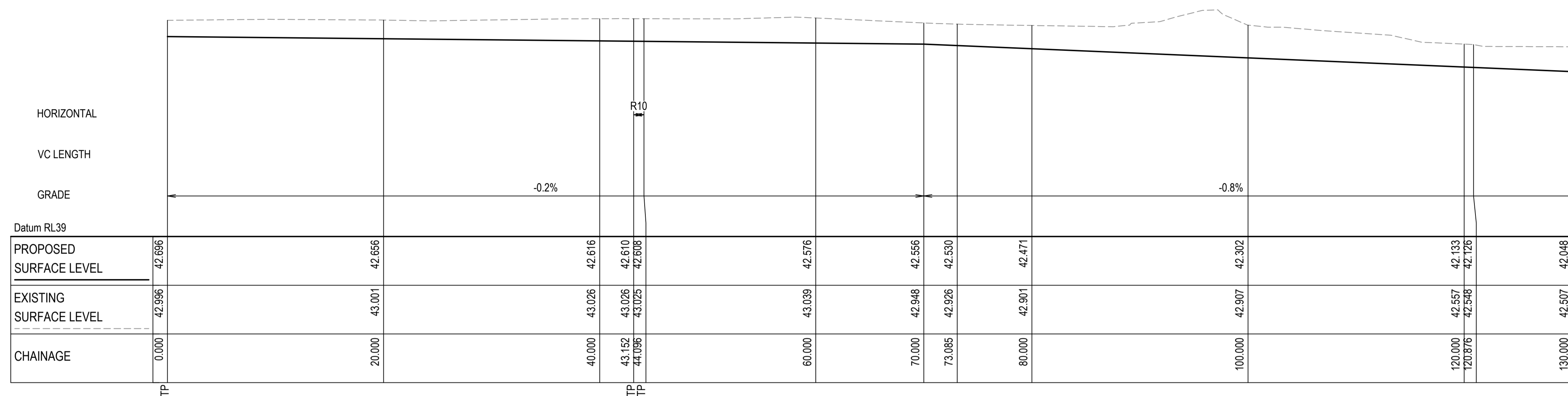
Civil Engineers and Project Managers

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

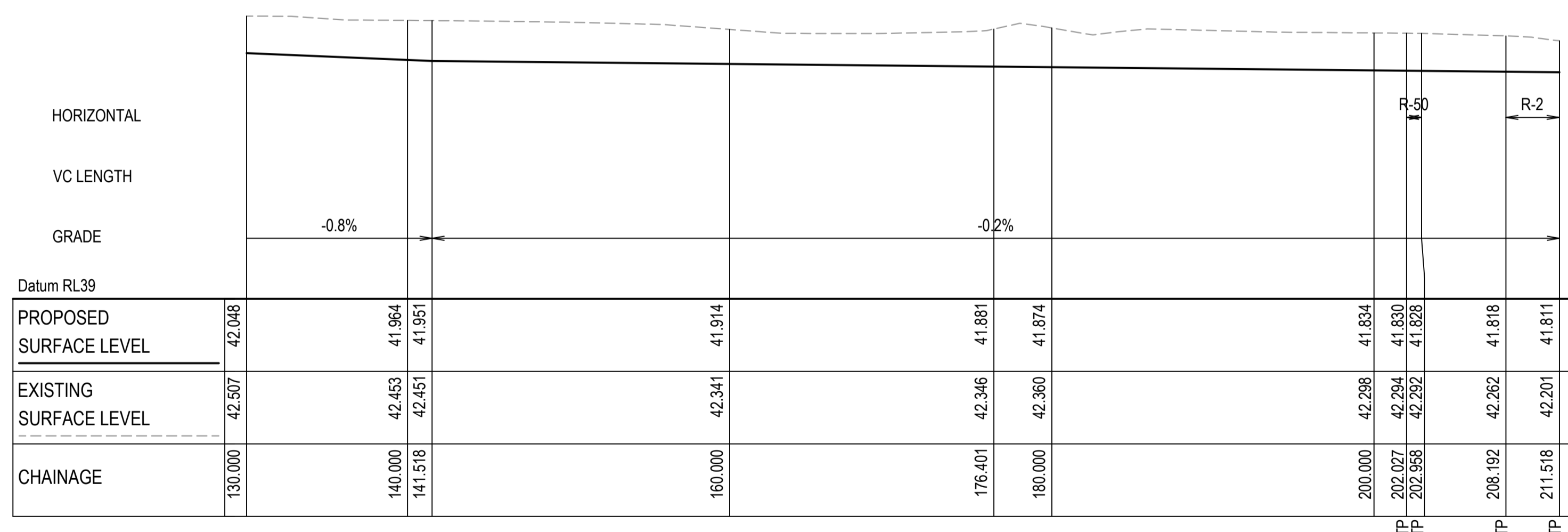
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. SM-2495

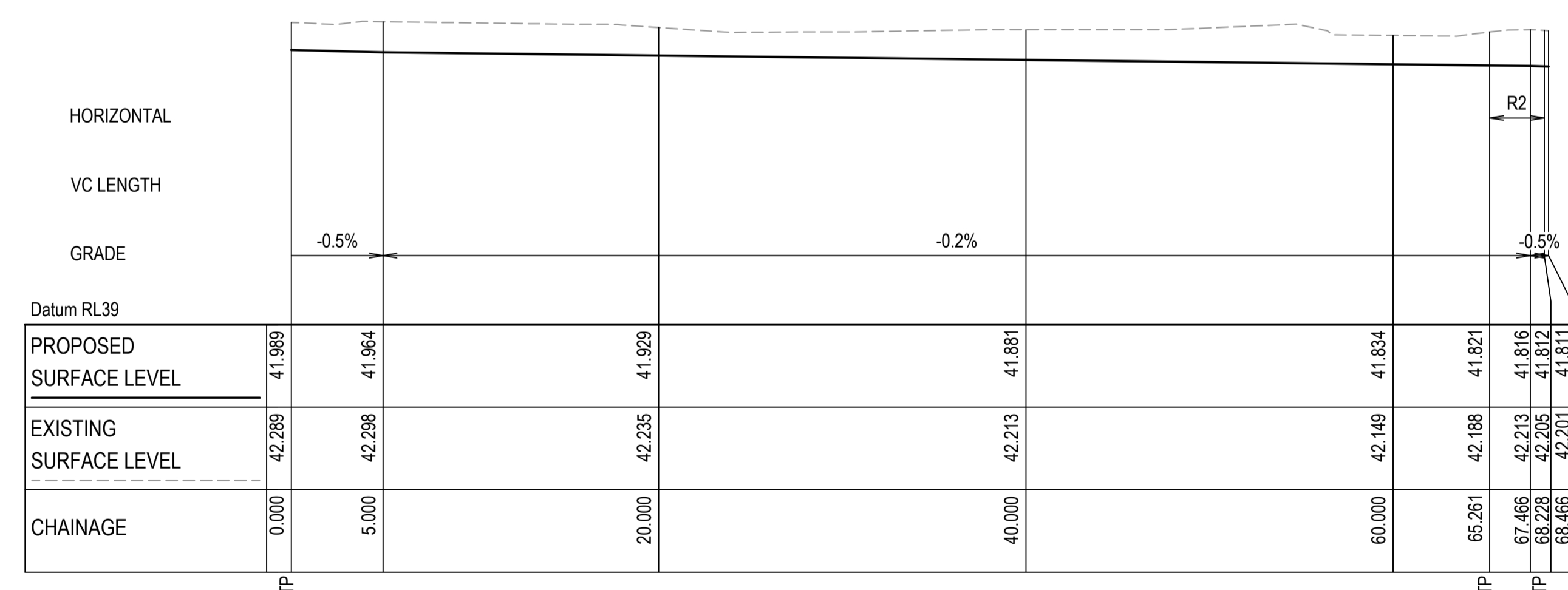
Issue 1



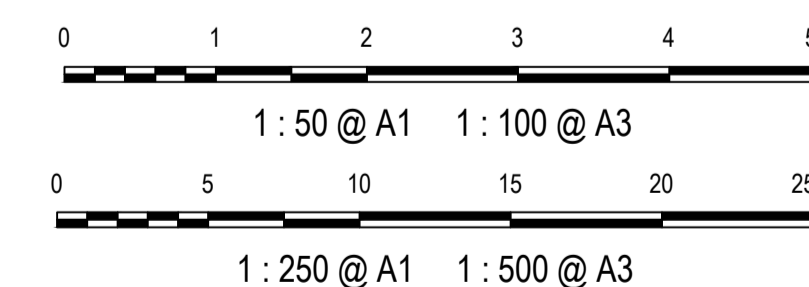
SWALE 07 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



SWALE 07 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



SWALE 06 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales AS SHOWN

Grid GDA2020

Height Datum AHD

TfNSW REGISTRATION No. DS2000/000000

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 4

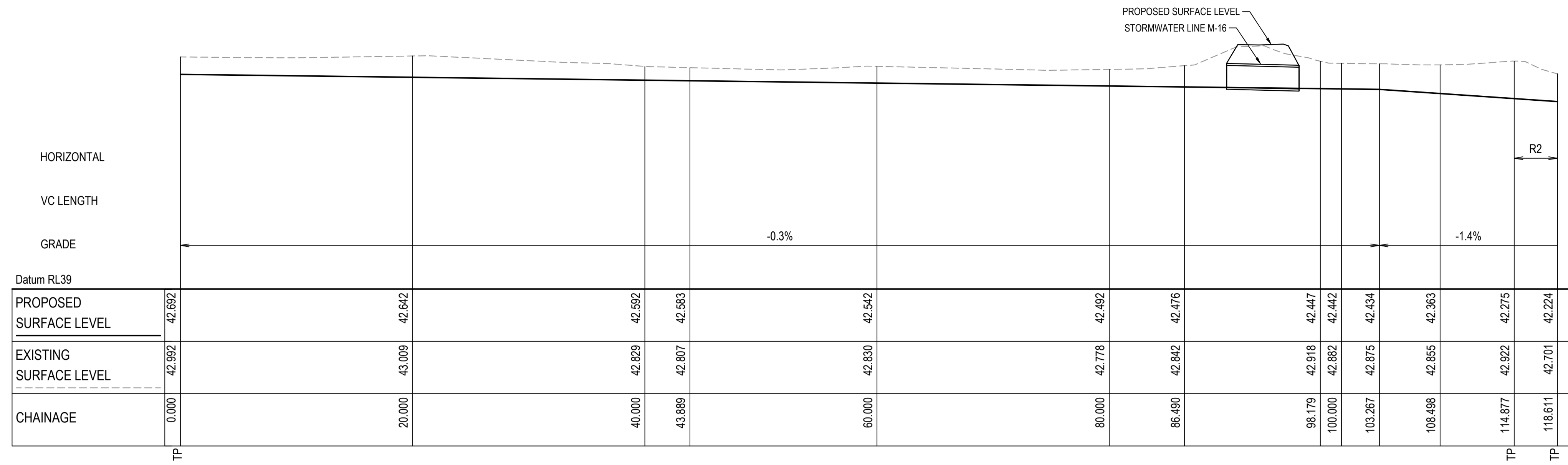
Civil Engineers and Project Managers

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

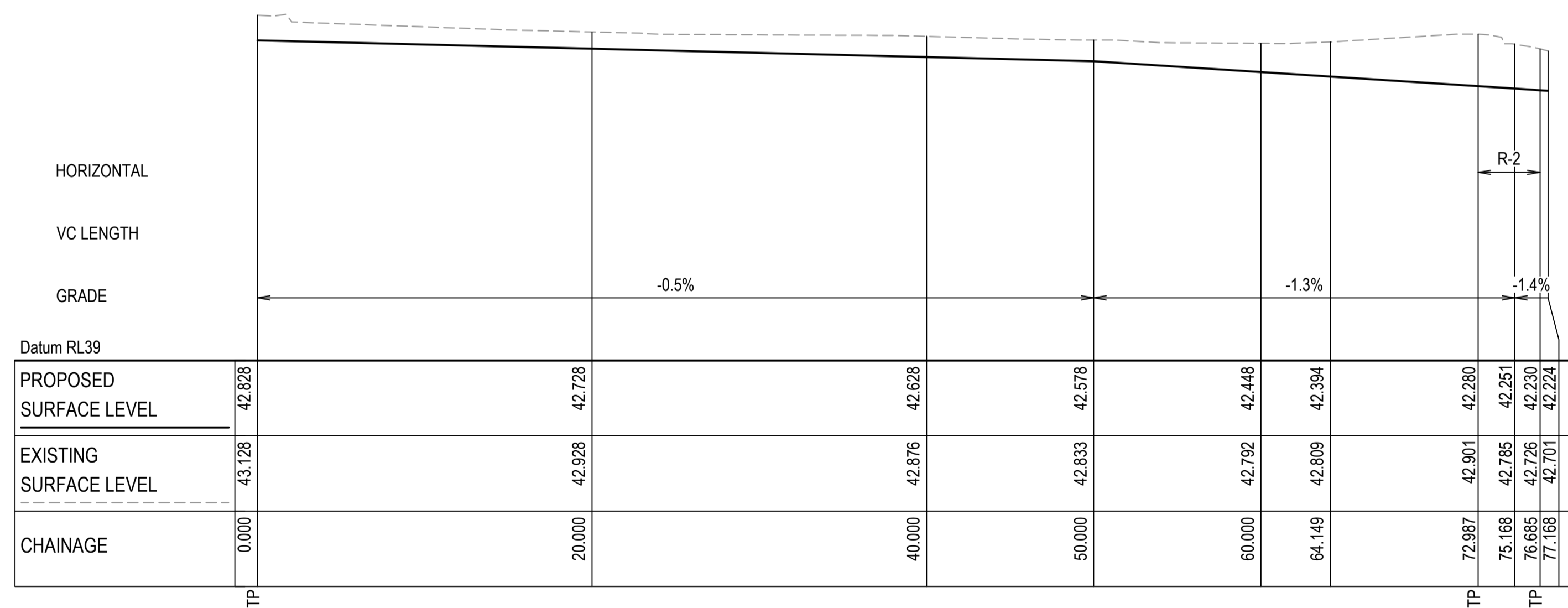
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. SM-2496

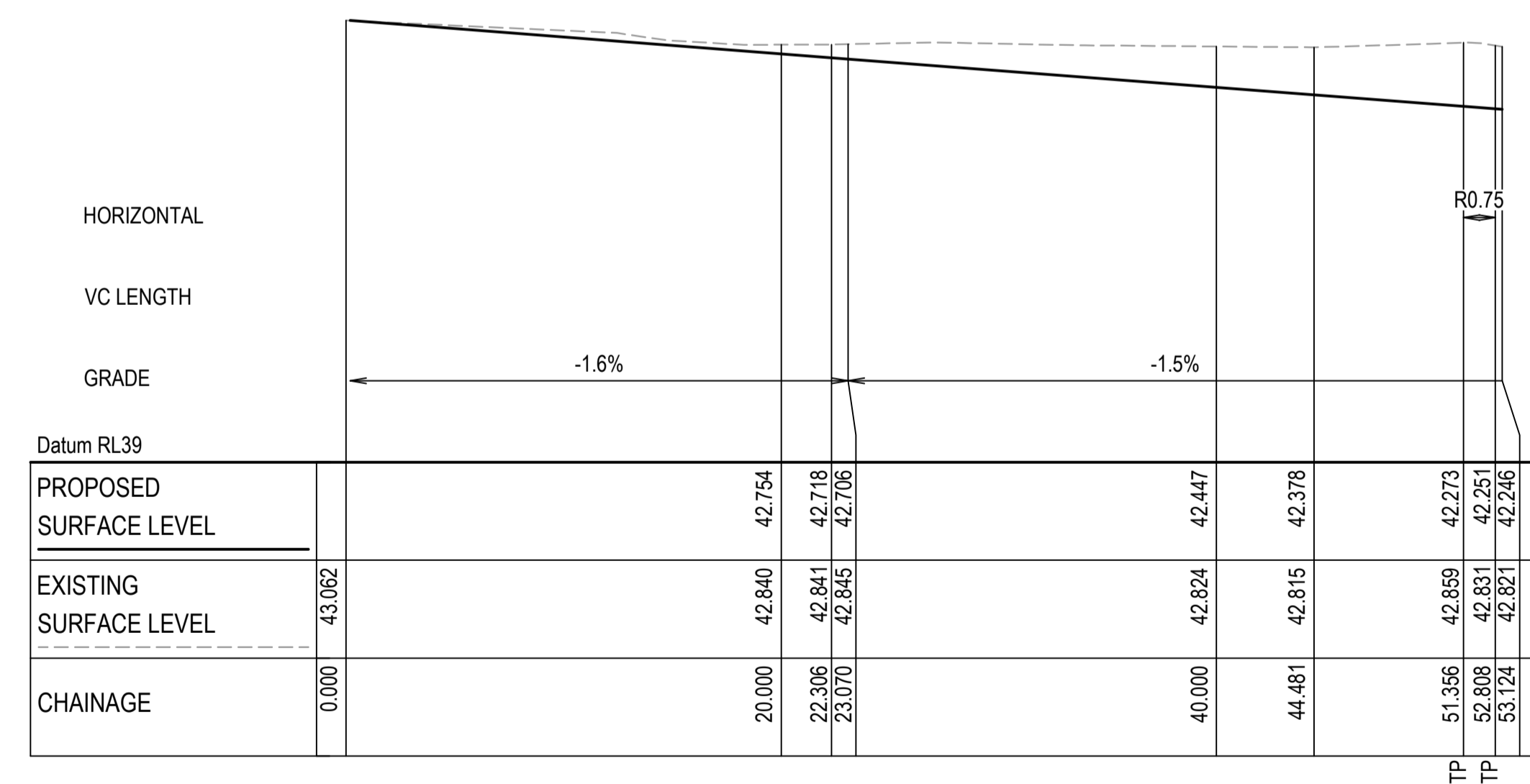
Issue 1



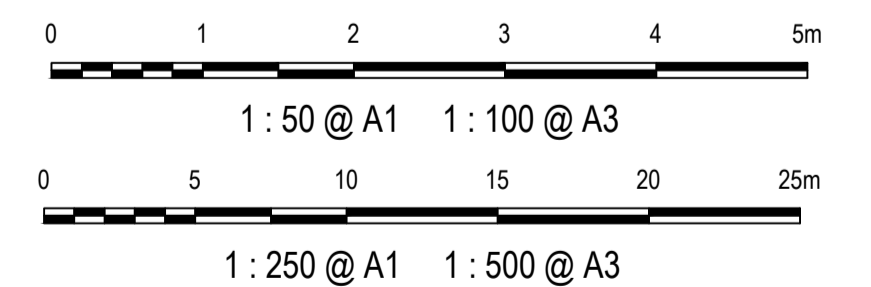
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 SCALE 1:250 HORI.
 1:50 VERT.



SWALE 09 LONGITUDINAL SECTION
 SCALE 1:250 HORI.
 1:50 VERT.



SWALE 10 LONGITUDINAL SECTION
 SCALE 1:250 HORI.
 1:50 VERT.



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

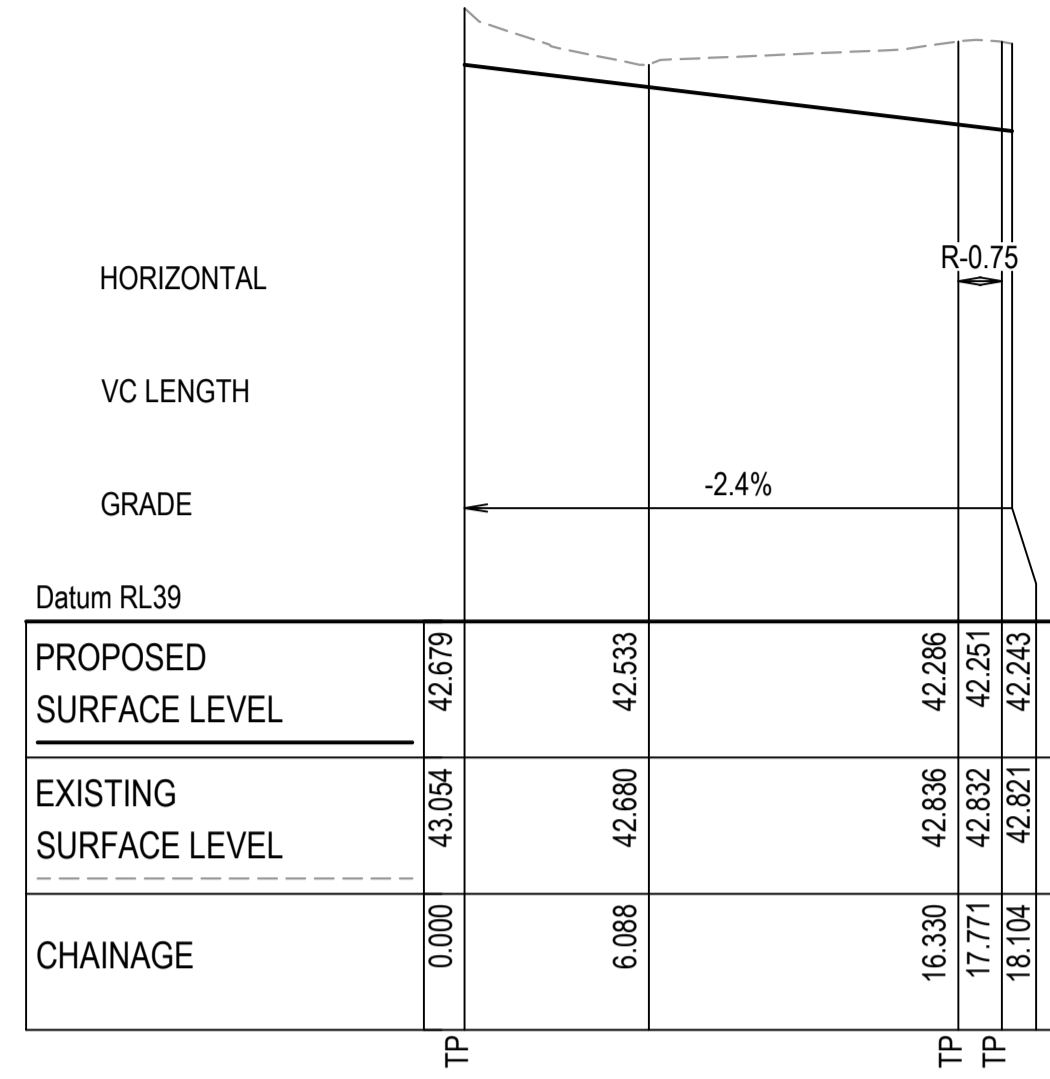
Scales: AS SHOWN
 Grid: GDA2020
 Height Datum: AHD
 TfNSW REGISTRATION No.: DS2000/000000

Project: MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
 Title: STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 5

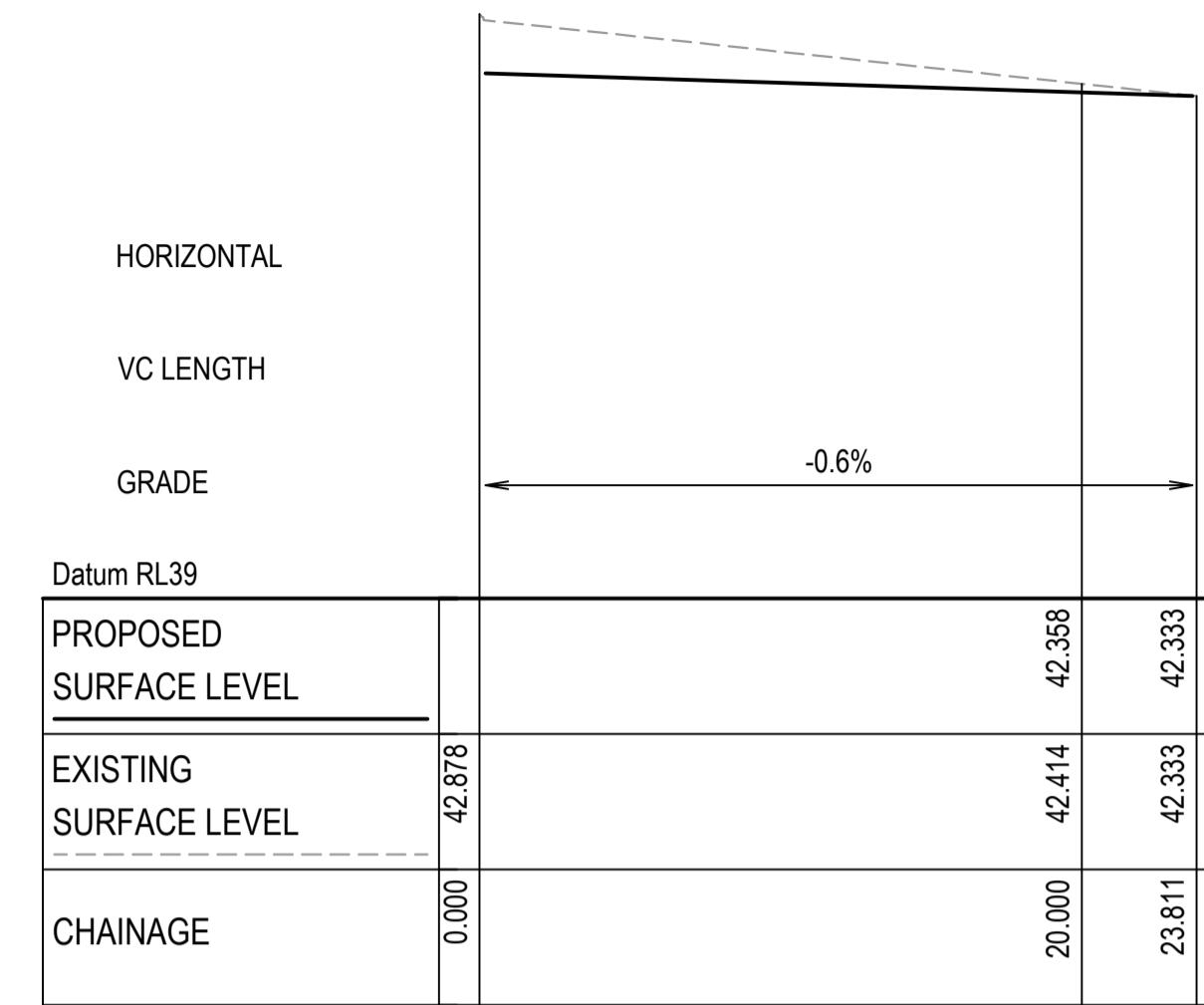
Civil Engineers and Project Managers

 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

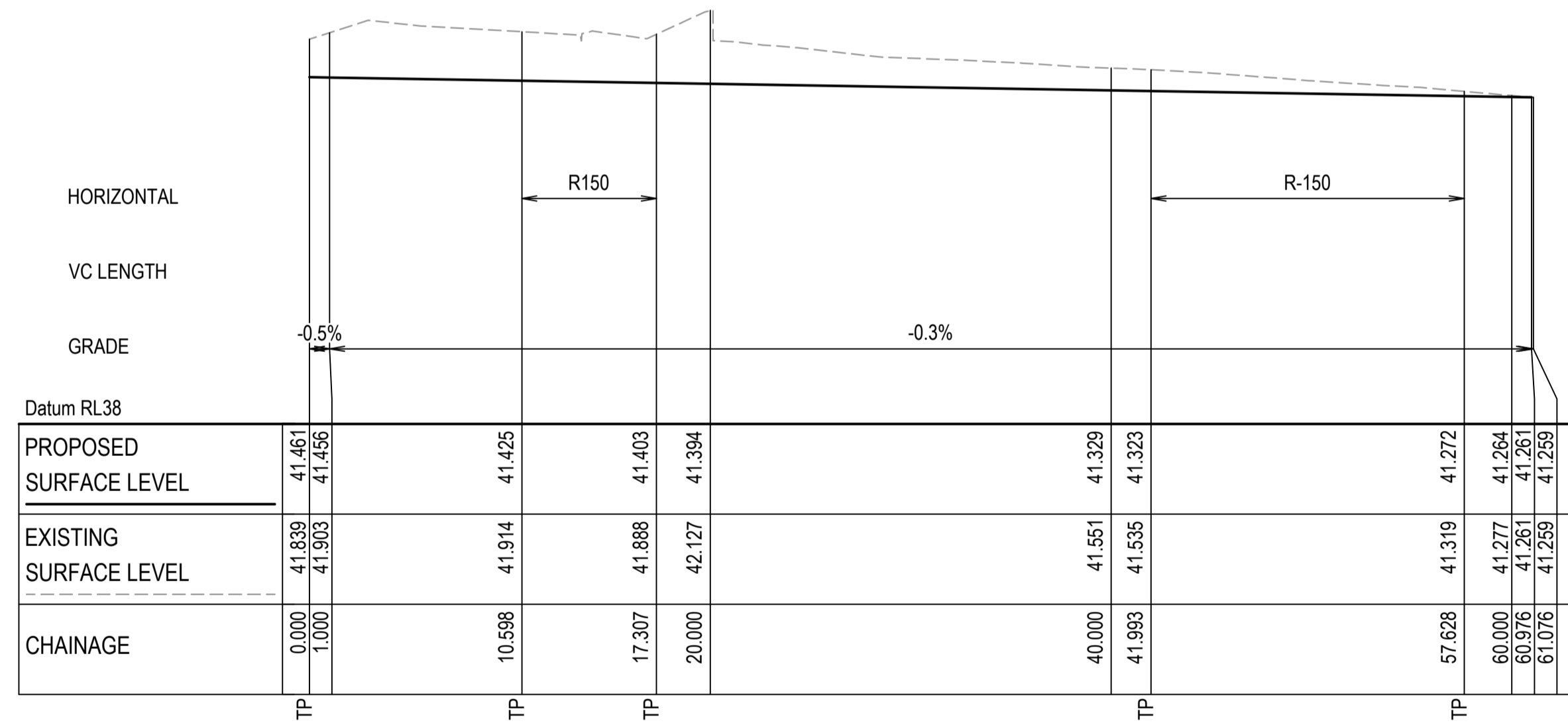
Status: FOR APPROVAL
 NOT TO BE USED FOR CONSTRUCTION
 Project - Drawing No.: SM-2497
 Issue: 1



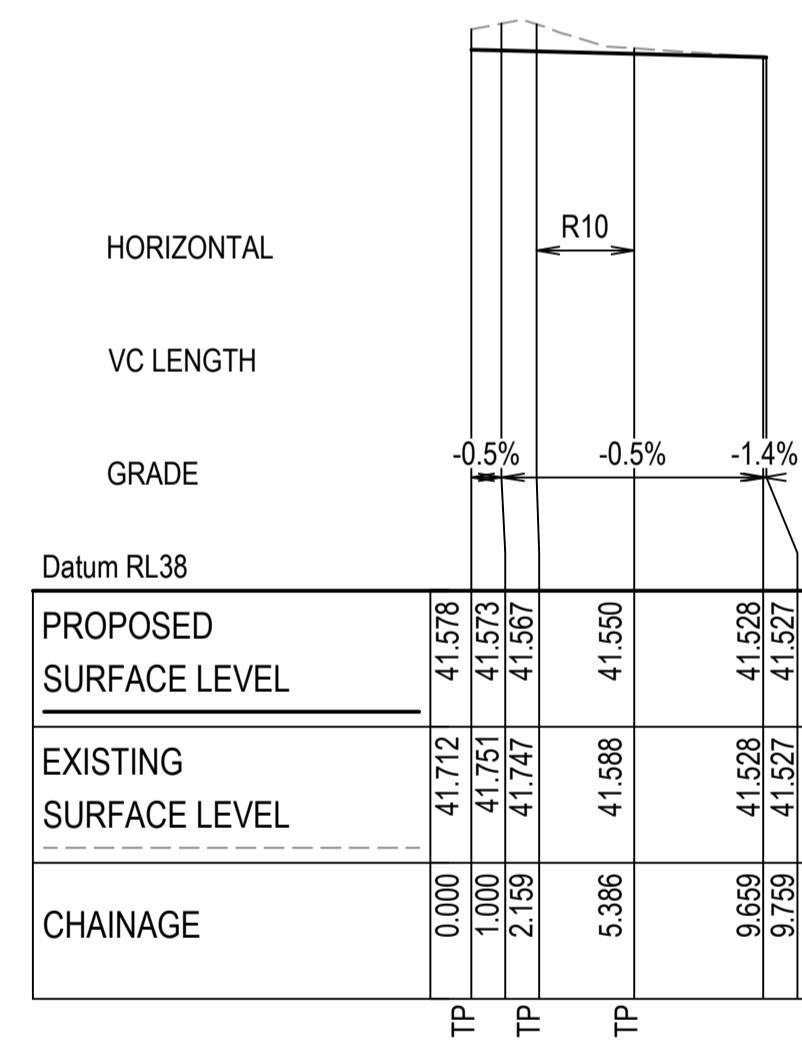
SWALE 11 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



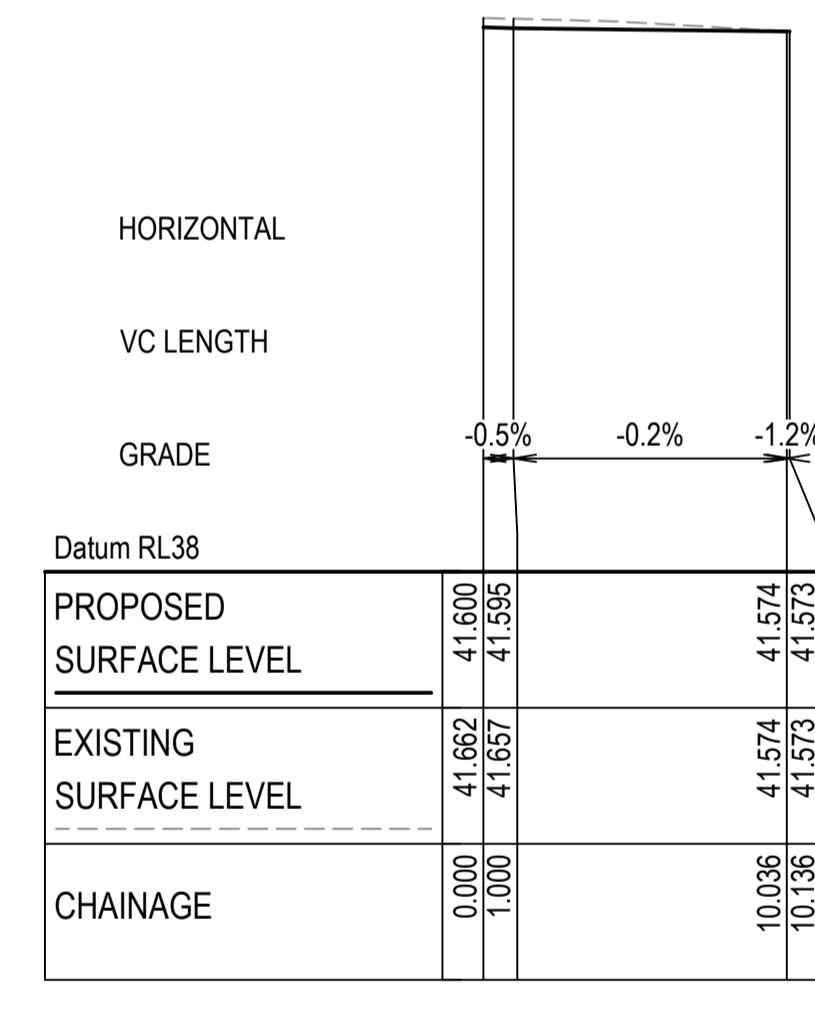
SWALE 12 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



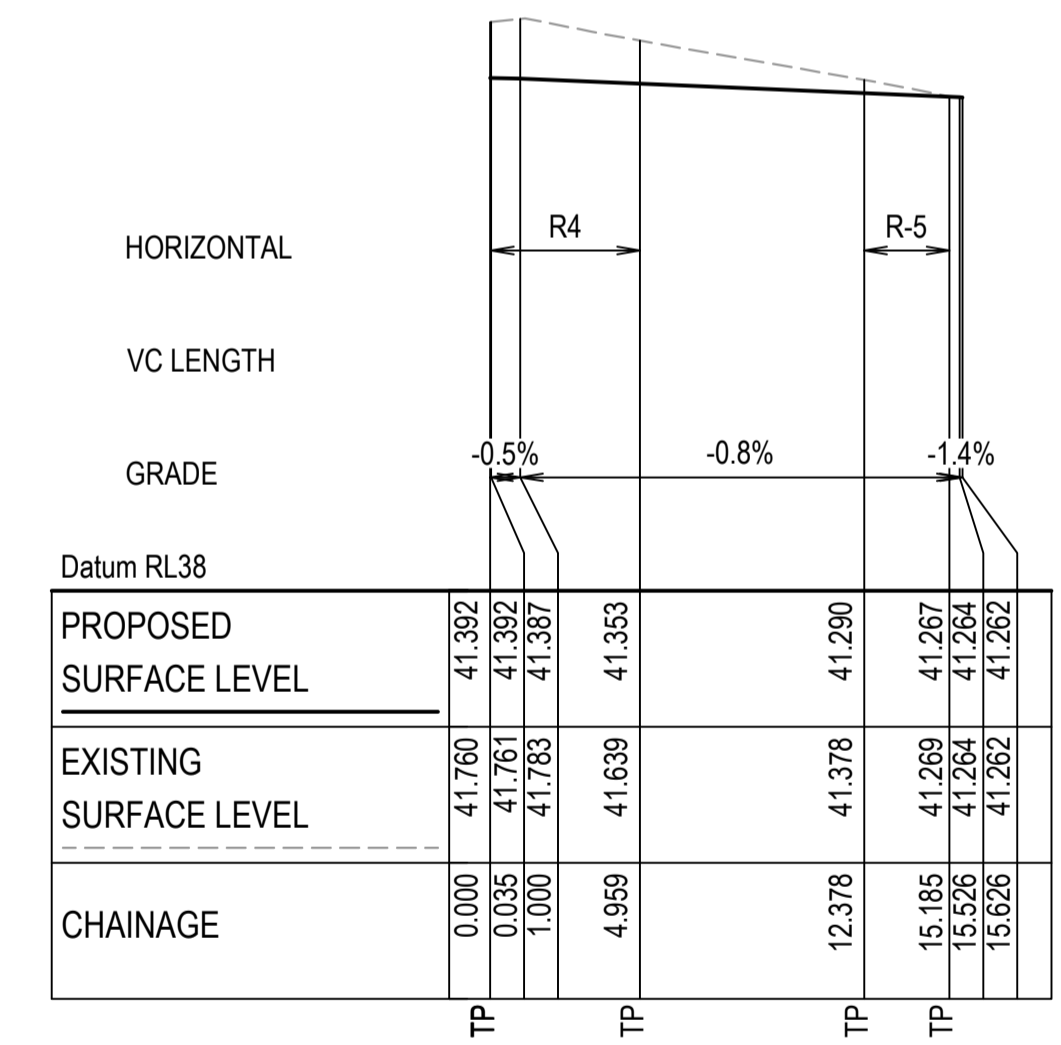
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1:50 VERT.



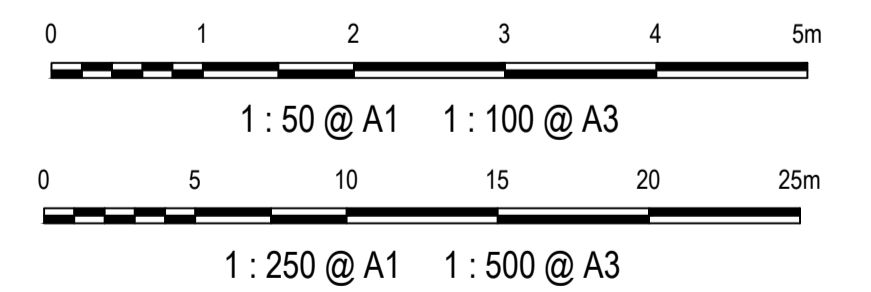
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SCALE 1:250 HORI.
1:50 VERT.



SWALE 15 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



SWALE 16 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.



1	ISSUED FOR 80% DESIGN	03-11-23
Issue	Description	Date

Client

Scales AS SHOWN

Grid GDA2020

Height Datum AHD

TFNSW REGISTRATION No. DS2000/000000

Project MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title STORMWATER SWALE LONGITUDINAL SECTIONS SHEET 6

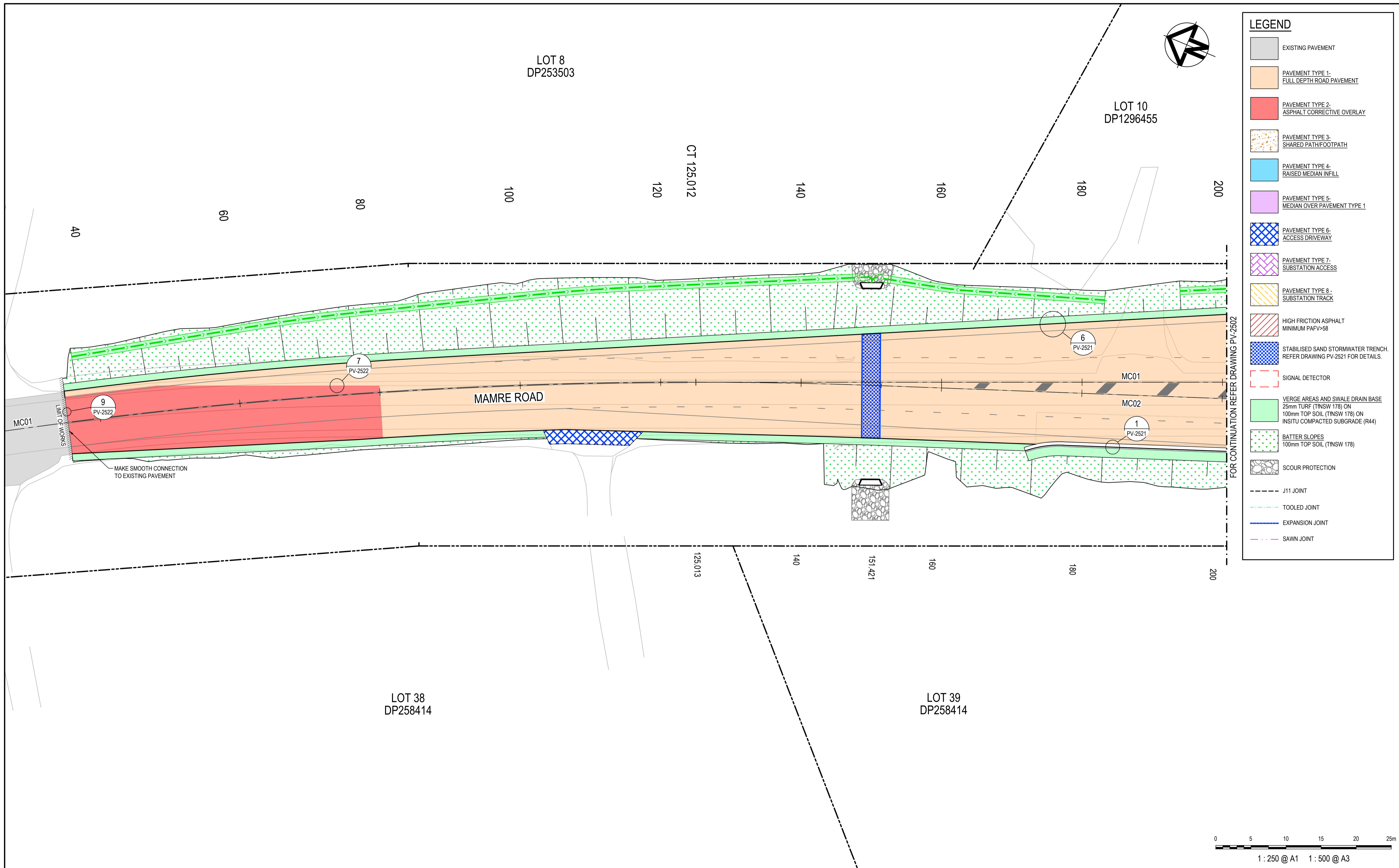
Civil Engineers and Project Managers

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

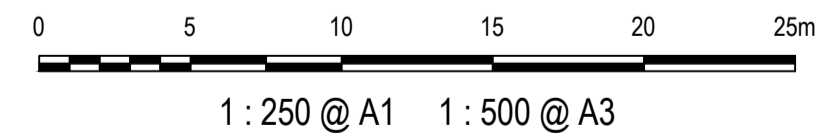
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. SM-2498

Issue 1



LEGEND	
	EXISTING PAVEMENT
	PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
	PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
	PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
	PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
	PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
	PAVEMENT TYPE 6 - ACCESS DRIVEWAY
	PAVEMENT TYPE 7 - SUBSTATION ACCESS
	PAVEMENT TYPE 8 - SUBSTATION TRACK
	HIGH FRICTION ASPHALT MINIMUM PAFV=58
	STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
	SIGNAL DETECTOR
	VERGE AREAS AND SWALE DRAIN BASE 25mm TURF (TNSW 178) ON 100mm TOP SOIL (TNSW 178) ON INSITU COMPACTED SUBGRADE (R44)
	BATTER SLOPES 100mm TOP SOIL (TNSW 178)
	SCOUR PROTECTION
	J11 JOINT
	TOOLED JOINT
	EXPANSION JOINT
	SAWN JOINT



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

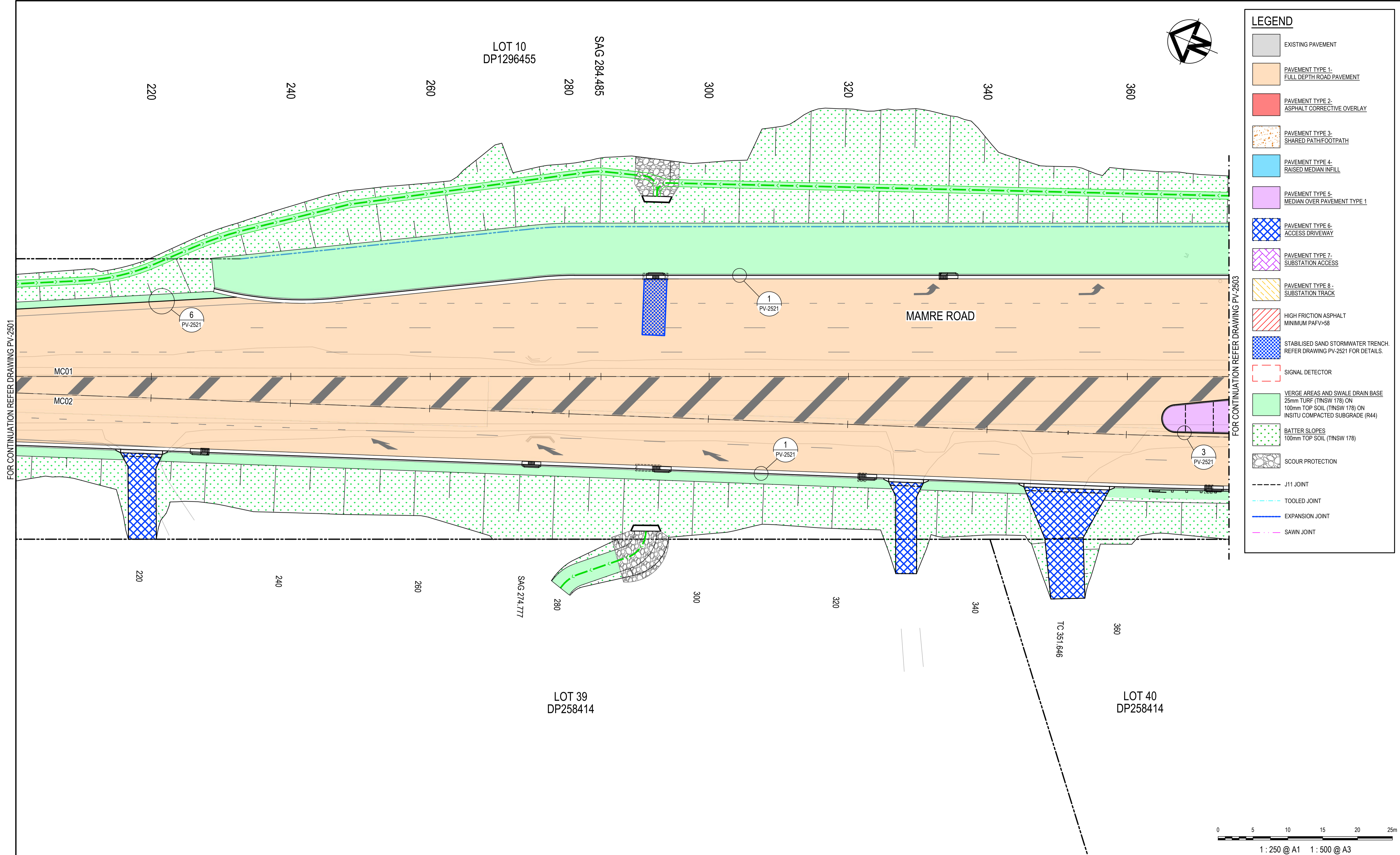
Client	
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Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TNSW REGISTRATION No.	DS2000/000000		

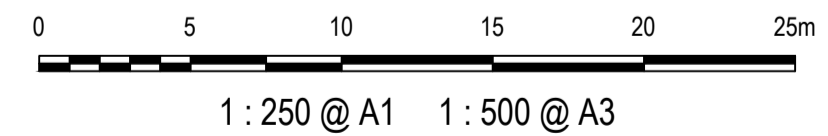
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 1

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	PV-2501
Issue	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	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	PV-2501
Issue	1



LEGEND	
	EXISTING PAVEMENT
	PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
	PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
	PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
	PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
	PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
	PAVEMENT TYPE 6 - ACCESS DRIVEWAY
	PAVEMENT TYPE 7 - SUBSTATION ACCESS
	PAVEMENT TYPE 8 - SUBSTATION TRACK
	HIGH FRICTION ASPHALT MINIMUM PAFV=58
	STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
	SIGNAL DETECTOR
	VERGE AREAS AND SWALE DRAIN BASE 25mm TURF (TINSW 178) ON 100mm TOP SOIL (TINSW 178) ON INSITU COMPACTED SUBGRADE (R44)
	BATTER SLOPES 100mm TOP SOIL (TINSW 178)
	SCOUR PROTECTION
	J11 JOINT
	TOOLED JOINT
	EXPANSION JOINT
	SAWN JOINT



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

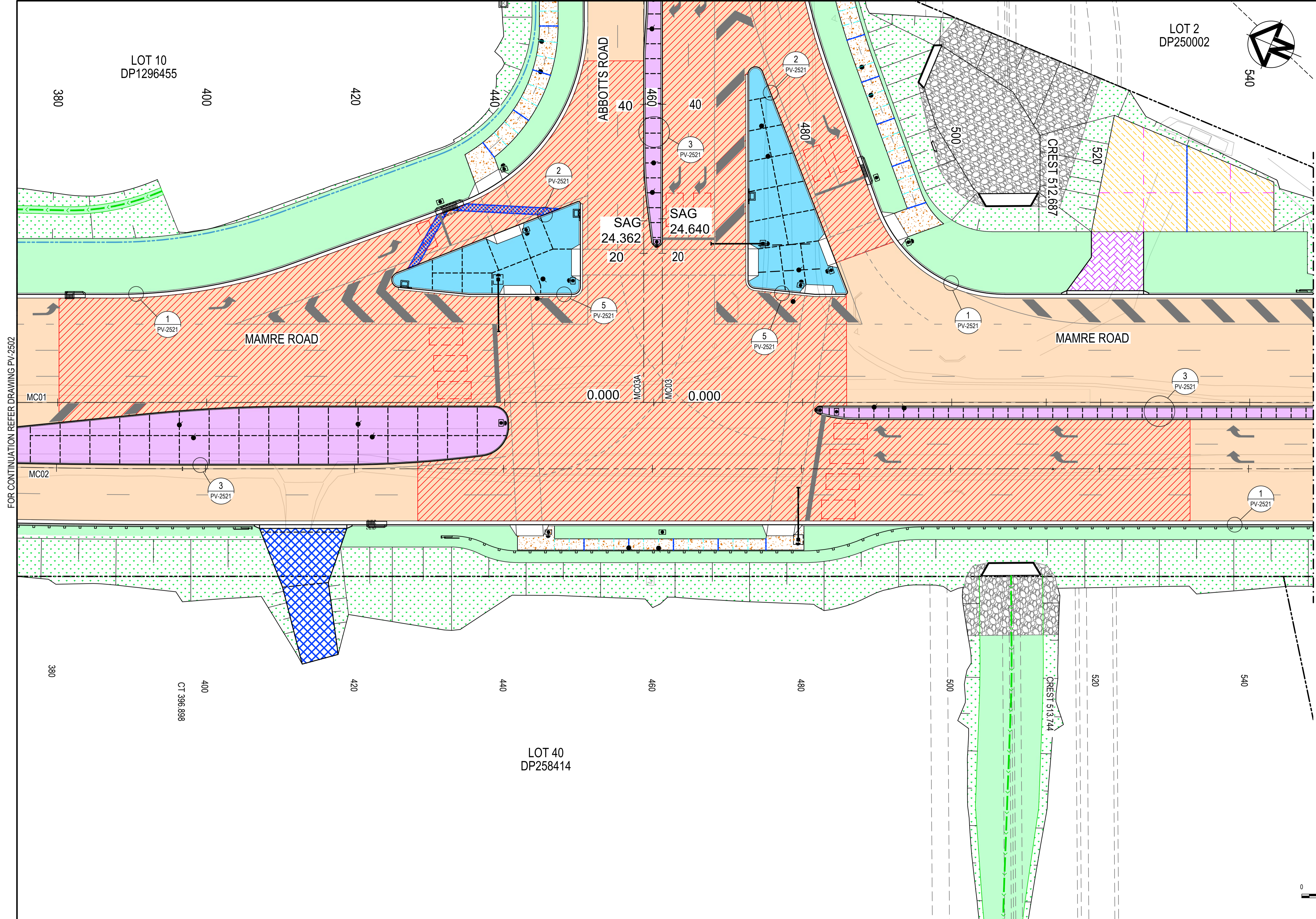
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

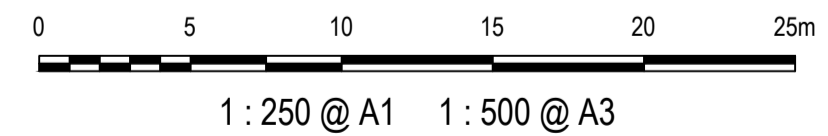
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 2

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	PV-2502
Issue	1



LEGEND

- EXISTING PAVEMENT
- PAVEMENT TYPE 1- FULL DEPTH ROAD PAVEMENT
- PAVEMENT TYPE 2- ASPHALT CORRECTIVE OVERLAY
- PAVEMENT TYPE 3- SHARED PATH/FOOTPATH
- PAVEMENT TYPE 4- RAISED MEDIAN INFILL
- PAVEMENT TYPE 5- MEDIAN OVER PAVEMENT TYPE 1
- PAVEMENT TYPE 6- ACCESS DRIVEWAY
- PAVEMENT TYPE 7- SUBSTATION ACCESS
- PAVEMENT TYPE 8- SUBSTATION TRACK
- HIGH FRICTION ASPHALT MINIMUM PAFV=58
- STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
- SIGNAL DETECTOR
- VERGE AREAS AND SWALE DRAIN BASE
25mm TURF (TNSW 178) ON
100mm TOP SOIL (TNSW 178) ON
INSITU COMPACTED SUBGRADE (R44)
- BATTER SLOPES
100mm TOP SOIL (TNSW 178)
- SCOUR PROTECTION
- J11 JOINT
- TOOLED JOINT
- EXPANSION JOINT
- SAWN JOINT



FOR CONTINUATION REFER DRAWING PV-2502

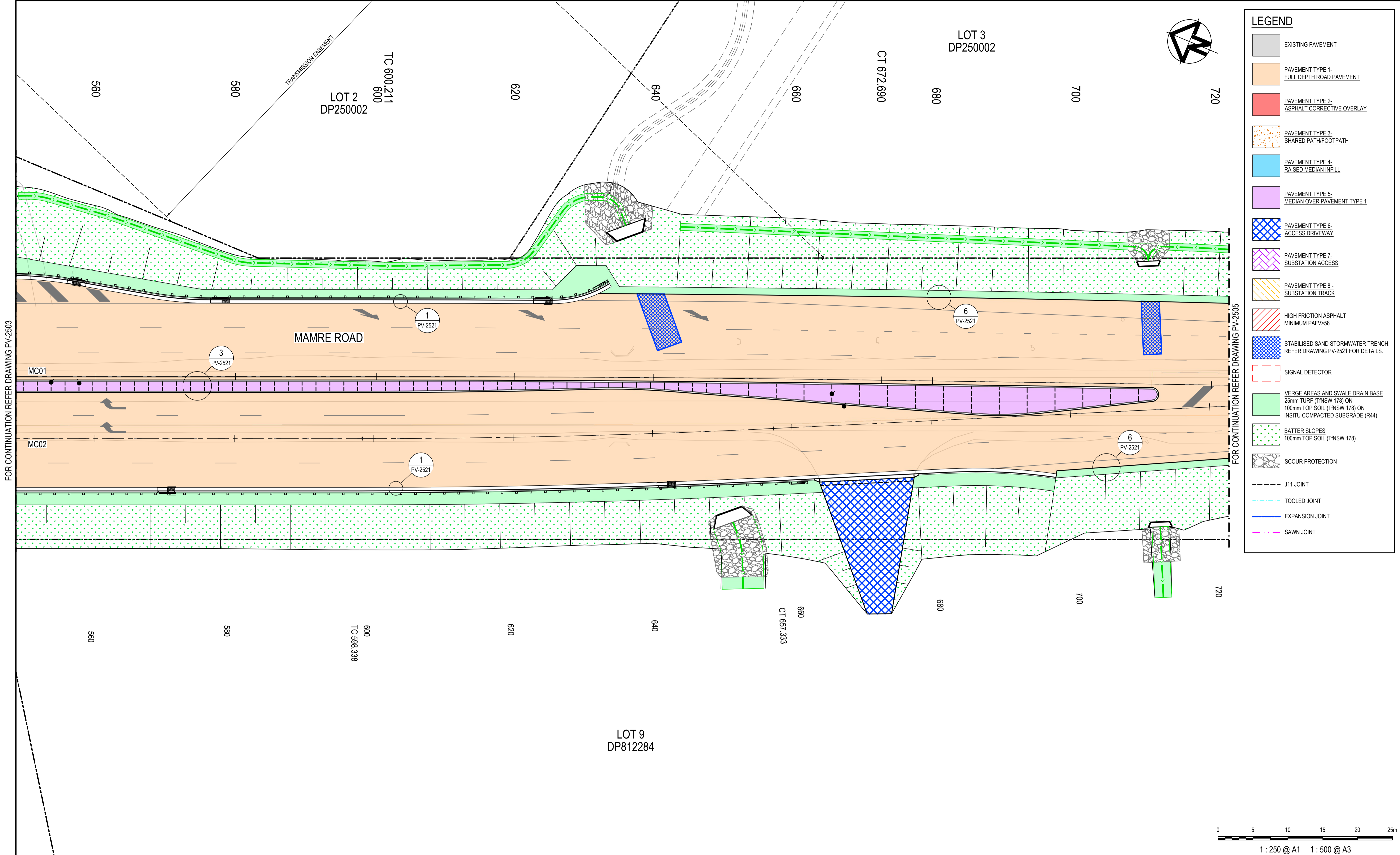
FOR CONTINUATION REFER DRAWING PV-2504

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Title	
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION	
PAVEMENT PLAN SHEET 3	

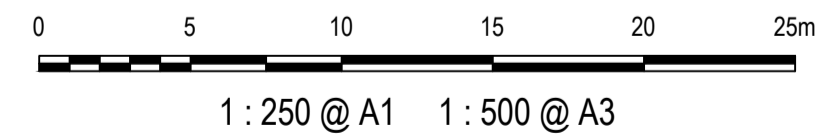
Project		Civil Engineers and Project Managers	
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION		 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL	Issue	A1
Project - Drawing No.	PV-2503	Issue	1



LEGEND	
	EXISTING PAVEMENT
	PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
	PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
	PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
	PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
	PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
	PAVEMENT TYPE 6 - ACCESS DRIVEWAY
	PAVEMENT TYPE 7 - SUBSTATION ACCESS
	PAVEMENT TYPE 8 - SUBSTATION TRACK
	HIGH FRICTION ASPHALT MINIMUM PAFV=58
	STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
	SIGNAL DETECTOR
	VERGE AREAS AND SWALE DRAIN BASE 25mm TURF (TNSW 178) ON 100mm TOP SOIL (TNSW 178) ON INSITU COMPACTED SUBGRADE (R44)
	BATTER SLOPES 100mm TOP SOIL (TNSW 178)
	SCOUR PROTECTION
	J11 JOINT
	TOOLED JOINT
	EXPANSION JOINT
	SAWN JOINT

FOR CONTINUATION REFER DRAWING PV-2503

FOR CONTINUATION REFER DRAWING PV-2505



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

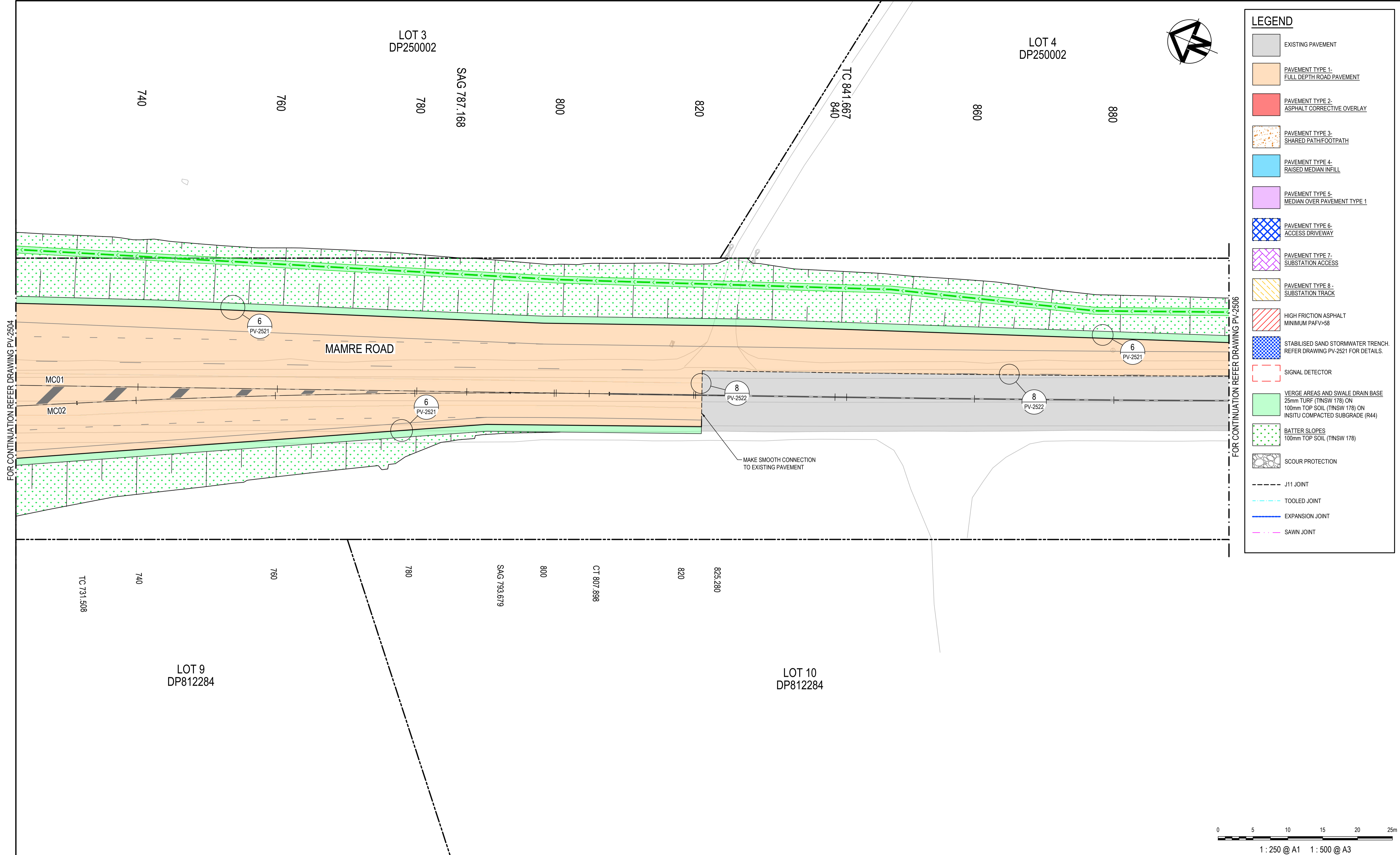
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 4

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	PV-2504
Issue	1

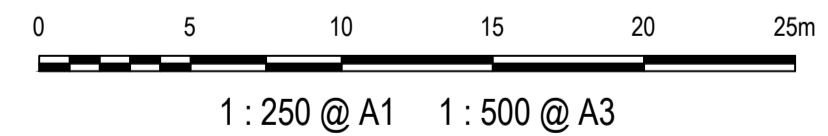


LEGEND

- EXISTING PAVEMENT
- PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
- PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
- PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
- PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
- PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
- PAVEMENT TYPE 6 - ACCESS DRIVEWAY
- PAVEMENT TYPE 7 - SUBSTATION ACCESS
- PAVEMENT TYPE 8 - SUBSTATION TRACK
- HIGH FRICTION ASPHALT MINIMUM PAFV=58
- STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
- SIGNAL DETECTOR
- VERGE AREAS AND SWALE DRAIN BASE
25mm TURF (TNSW 178) ON
100mm TOP SOIL (TNSW 178) ON
INSITU COMPACTED SUBGRADE (R44)
- BATTER SLOPES
100mm TOP SOIL (TNSW 178)
- SCOUR PROTECTION
- J11 JOINT
- TOOLED JOINT
- EXPANSION JOINT
- SAWN JOINT

FOR CONTINUATION REFER DRAWING PV-2504

FOR CONTINUATION REFER DRAWING PV-2506



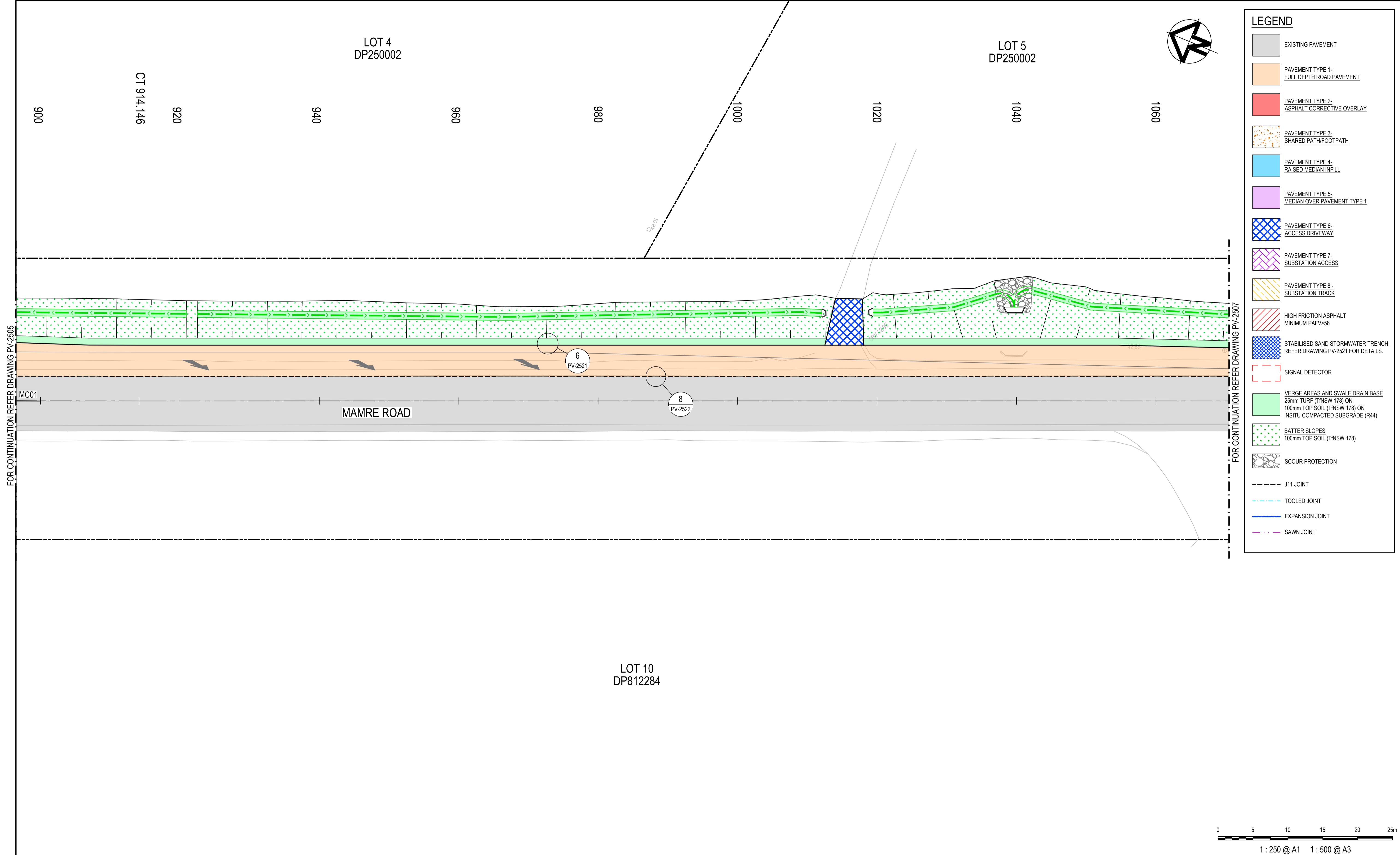
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TfNSW REGISTRATION No.	DS2000/000000		

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 5

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	PV-2505
Issue	1

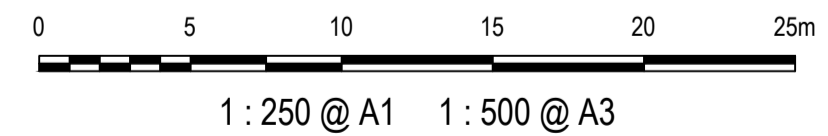


LEGEND

- EXISTING PAVEMENT
- PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
- PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
- PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
- PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
- PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
- PAVEMENT TYPE 6 - ACCESS DRIVEWAY
- PAVEMENT TYPE 7 - SUBSTATION ACCESS
- PAVEMENT TYPE 8 - SUBSTATION TRACK
- HIGH FRICTION ASPHALT MINIMUM PAFV=58
- STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
- SIGNAL DETECTOR
- VERGE AREAS AND SWALE DRAIN BASE
25mm TURF (TINSW 178) ON
100mm TOP SOIL (TINSW 178) ON
INSITU COMPACTED SUBGRADE (R44)
- BATTER SLOPES
100mm TOP SOIL (TINSW 178)
- SCOUR PROTECTION
- J11 JOINT
- TOOLED JOINT
- EXPANSION JOINT
- SAWN JOINT

FOR CONTINUATION REFER DRAWING PV-2505

FOR CONTINUATION REFER DRAWING PV-2507



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

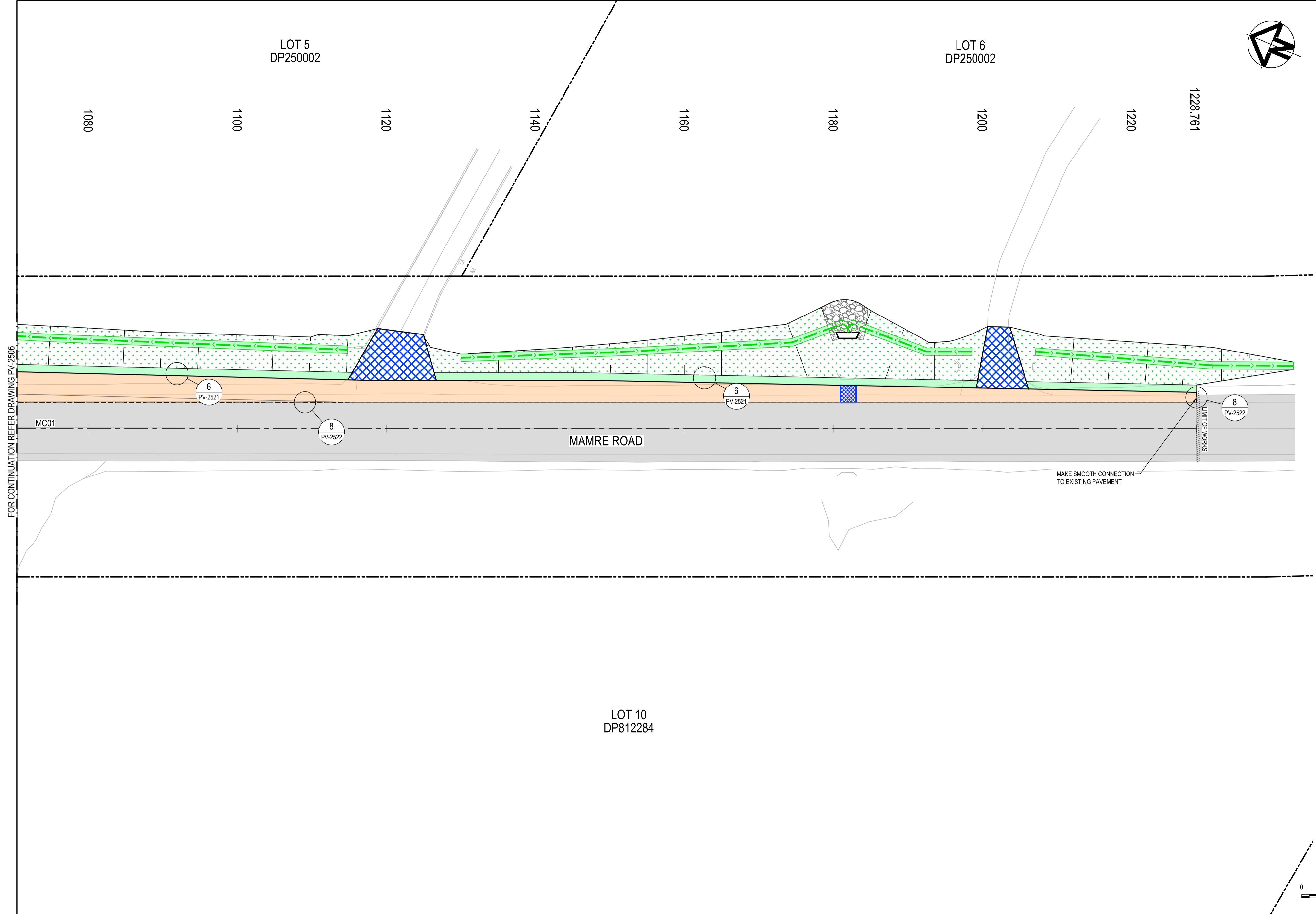
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

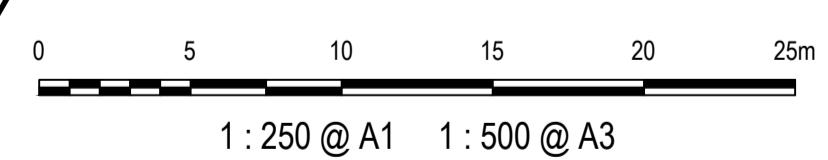
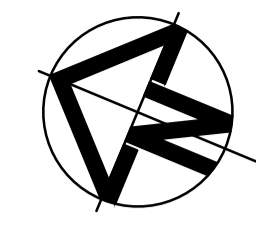
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 6

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	PV-2506
Issue	1



LEGEND	
	EXISTING PAVEMENT
	PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
	PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
	PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
	PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
	PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
	PAVEMENT TYPE 6 - ACCESS DRIVEWAY
	PAVEMENT TYPE 7 - SUBSTATION ACCESS
	PAVEMENT TYPE 8 - SUBSTATION TRACK
	HIGH FRICTION ASPHALT MINIMUM PAFV=58
	STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
	SIGNAL DETECTOR
	VERGE AREAS AND SWALE DRAIN BASE 25mm TURF (TINSW 178) ON 100mm TOP SOIL (TINSW 178) ON INSITU COMPACTED SUBGRADE (R44)
	BATTER SLOPES 100mm TOP SOIL (TINSW 178)
	SCOUR PROTECTION
	J11 JOINT
	TOOLED JOINT
	EXPANSION JOINT
	SAWN JOINT

FOR CONTINUATION REFER DRAWING PV-2506



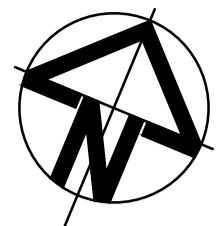
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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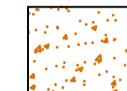


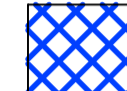


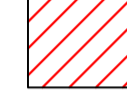









Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TfNSW REGISTRATION No.	DS2000/000000		

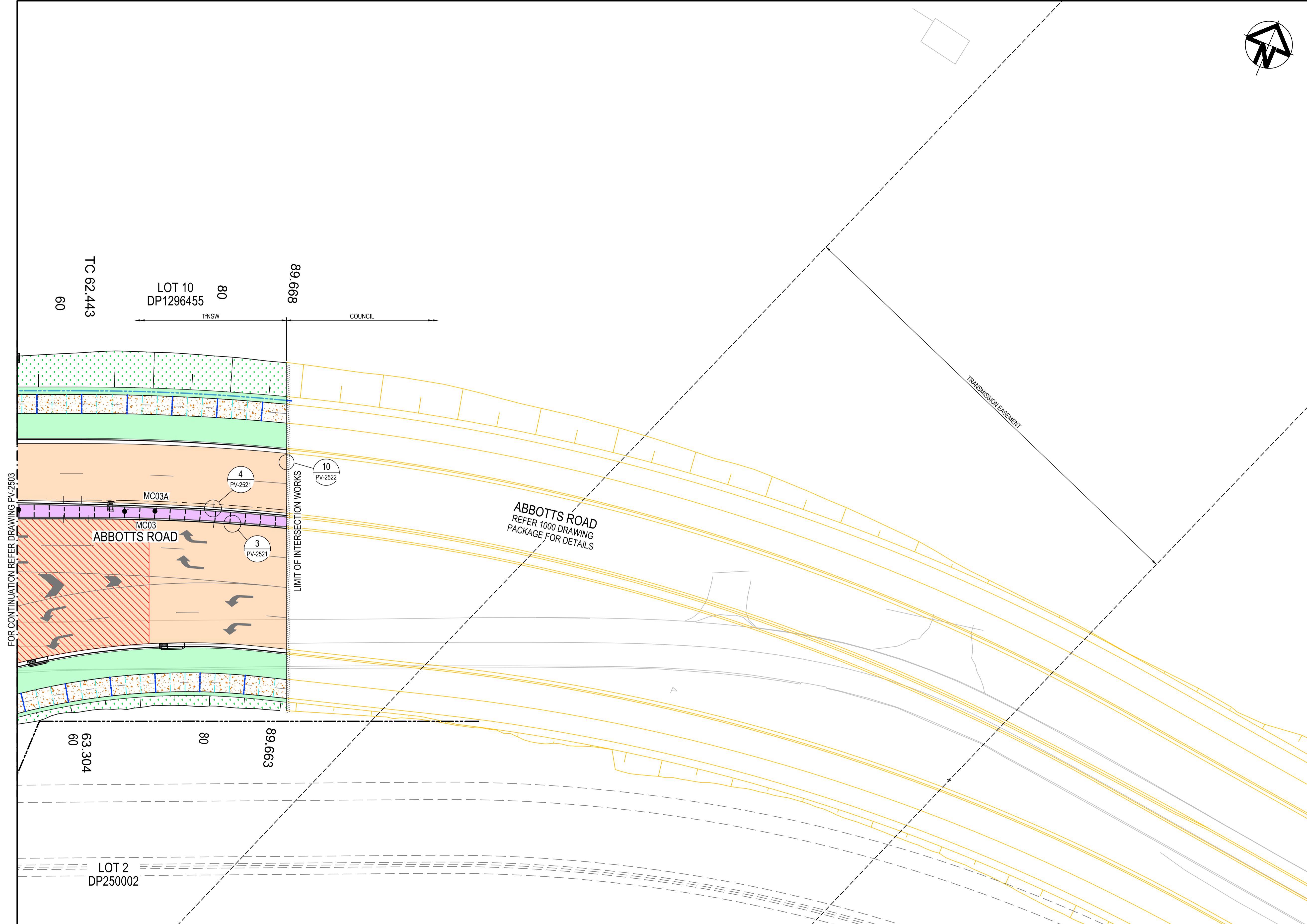
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 7

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	PV-2507
Issue	1



LEGEND

-  EXISTING PAVEMENT
-  PAVEMENT TYPE 1 - FULL DEPTH ROAD PAVEMENT
-  PAVEMENT TYPE 2 - ASPHALT CORRECTIVE OVERLAY
-  PAVEMENT TYPE 3 - SHARED PATH/FOOTPATH
-  PAVEMENT TYPE 4 - RAISED MEDIAN INFILL
-  PAVEMENT TYPE 5 - MEDIAN OVER PAVEMENT TYPE 1
-  PAVEMENT TYPE 6 - ACCESS DRIVEWAY
-  PAVEMENT TYPE 7 - SUBSTATION ACCESS
-  PAVEMENT TYPE 8 - SUBSTATION TRACK
-  HIGH FRICTION ASPHALT MINIMUM PAFV=58
-  STABILISED SAND STORMWATER TRENCH. REFER DRAWING PV-2521 FOR DETAILS.
-  SIGNAL DETECTOR
-  VERGE AREAS AND SWALE DRAIN BASE
25mm TURF (TNSW 178) ON
100mm TOP SOIL (TNSW 178) ON
INSITU COMPACTED SUBGRADE (R44)
-  BATTER SLOPES
100mm TOP SOIL (TNSW 178)
-  SCOUR PROTECTION
-  J11 JOINT
-  TOOLED JOINT
-  EXPANSION JOINT
-  SAWN JOINT



FOR CONTINUATION REFER DRAWING PV-2503

TC 62,443
 60
 80
 89,666
 TNSW
 COUNCIL

63,304
 60
 80
 89,663

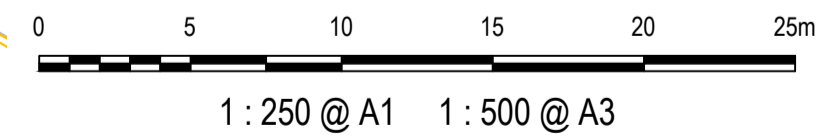
LOT 2
 DP250002

LOT 10
 DP1296455

ABBOTTS ROAD
 REFER 1000 DRAWING
 PACKAGE FOR DETAILS





LIMIT OF INTERSECTION WORKS

TRANSMISSION EASEMENT




1 : 250 @ A1 1 : 500 @ A3

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

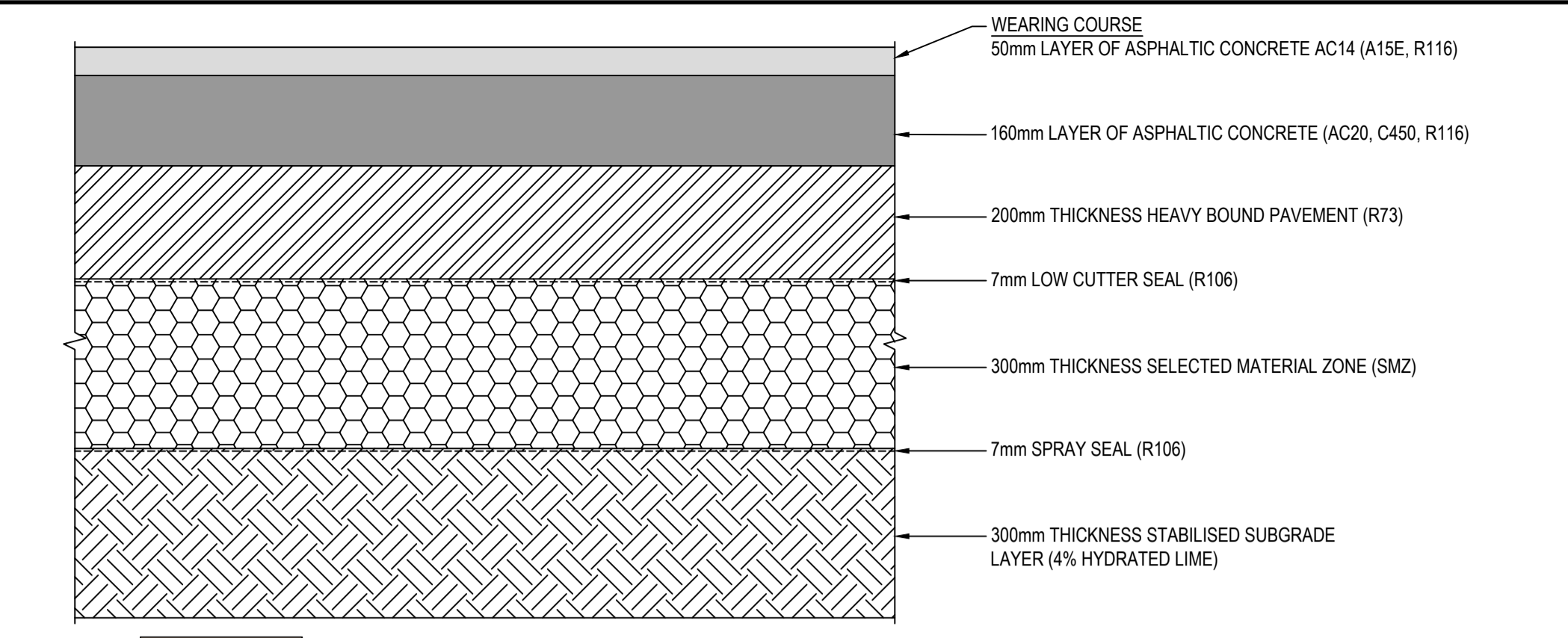
Client	 
Client	 

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TNSW REGISTRATION No.	DS2000/000000	Approved	

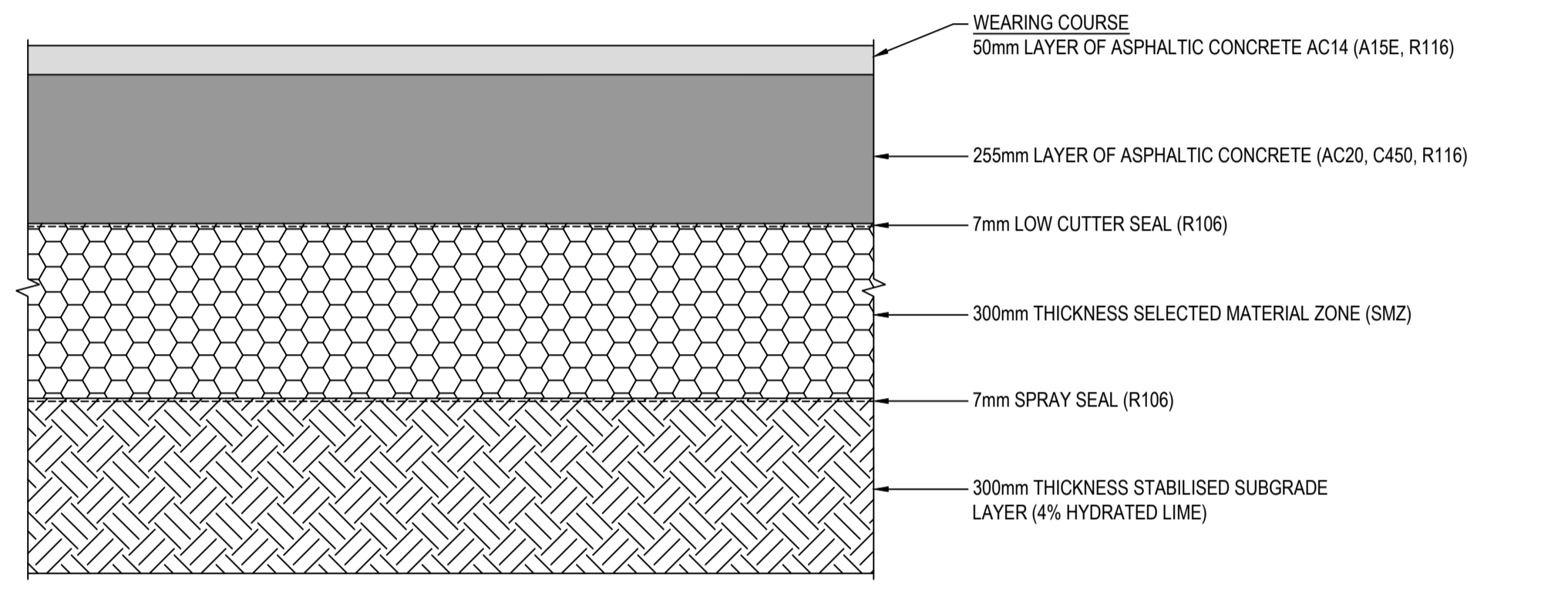
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PLAN SHEET 8

Civil Engineers and Project Managers	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	PV-2508
Issue	1

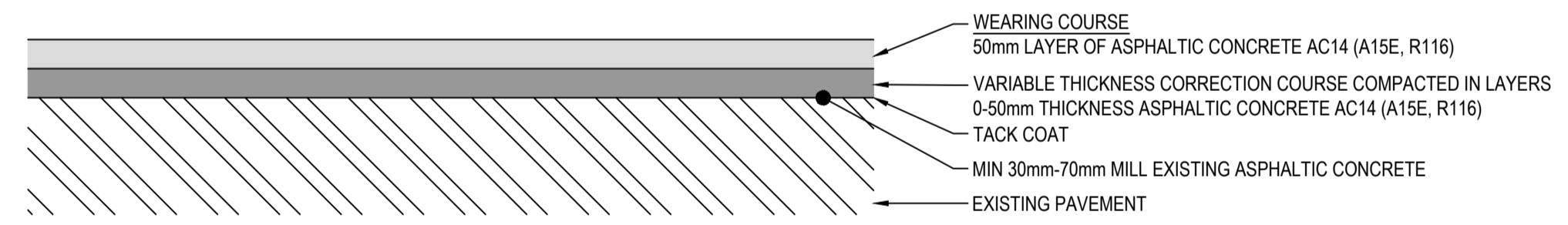
Level 7, 153 Walker Street
 North Sydney NSW 2060
 ABN 96 130 882 405
 Tel: 02 9439 1777
 Fax: 02 9923 1055
 www.atl.net.au
 info@atl.net.au



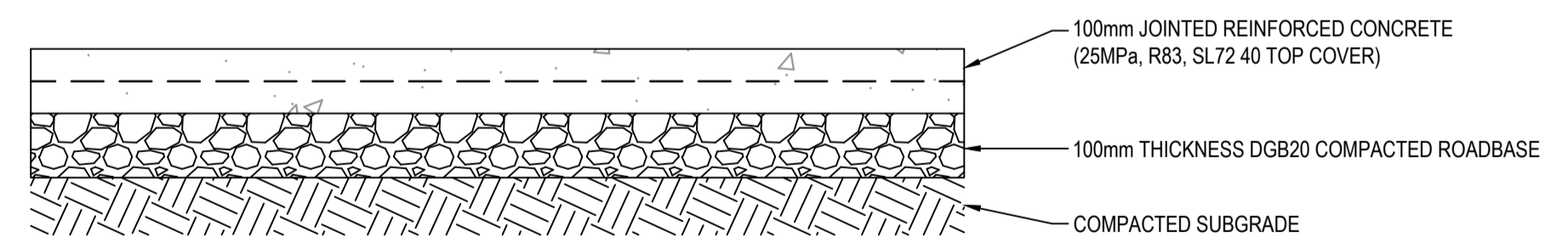
PAVEMENT TYPE 1 - (OPTION 1)
DEEP ASPHALT OVER HEAVY BOUND ON SUBGRADE (LIME STABILISATION)
 1 : 10



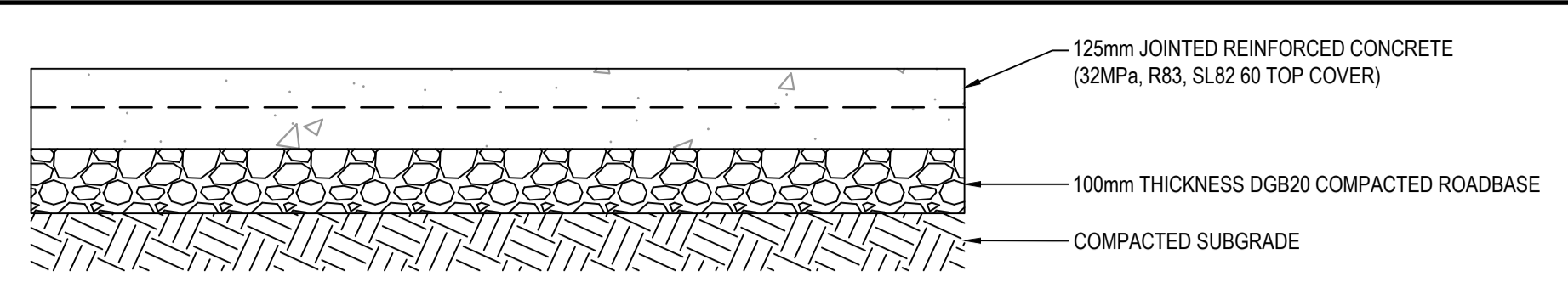
PAVEMENT TYPE 1 - (OPTION 2)
DEEP ASPHALT OVER SMZ ON SUBGRADE (LIME STABILISATION)
 1 : 10



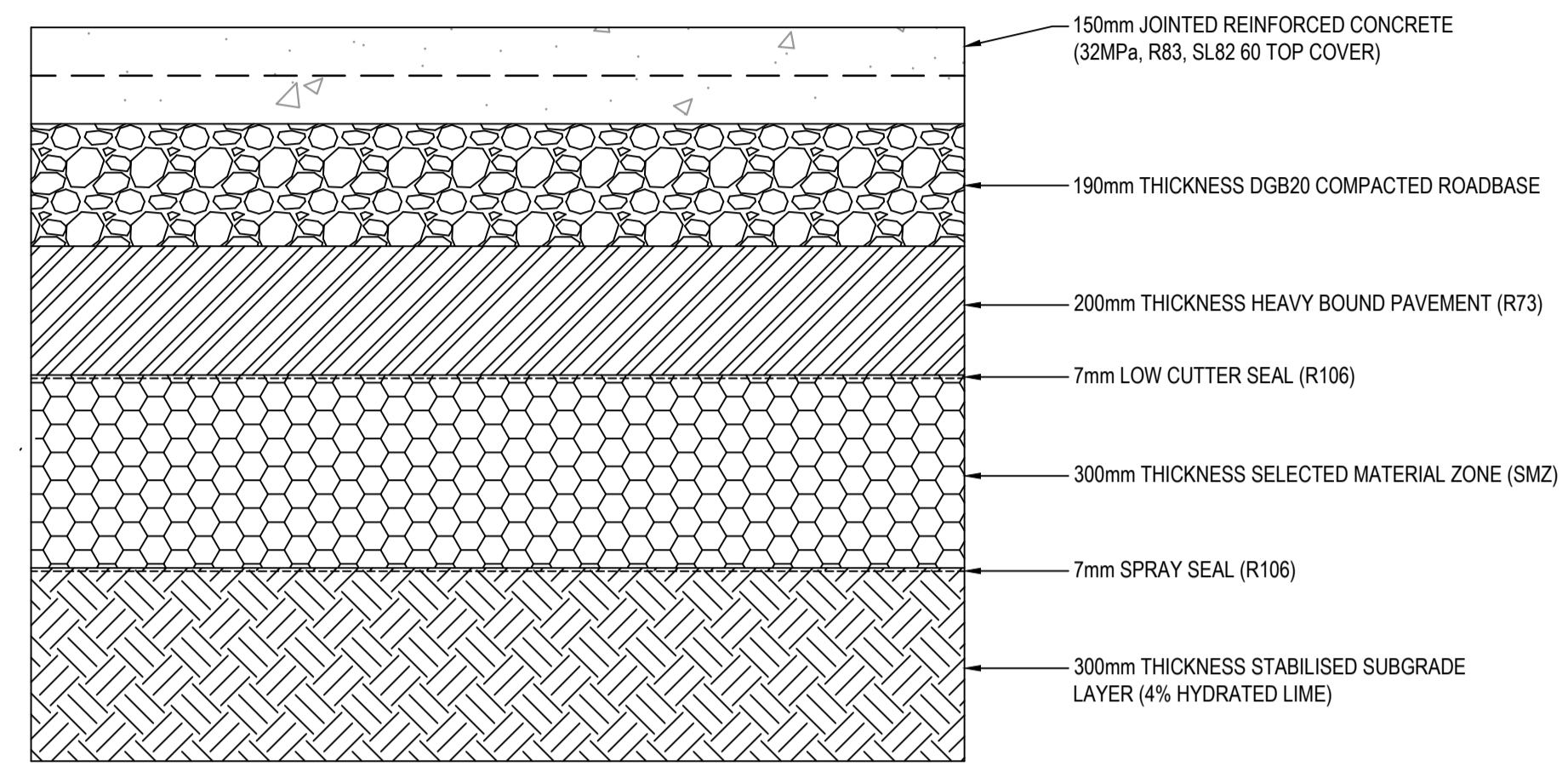
PAVEMENT TYPE 2
ASPHALT CORRECTIVE OVERLAY
 1 : 10



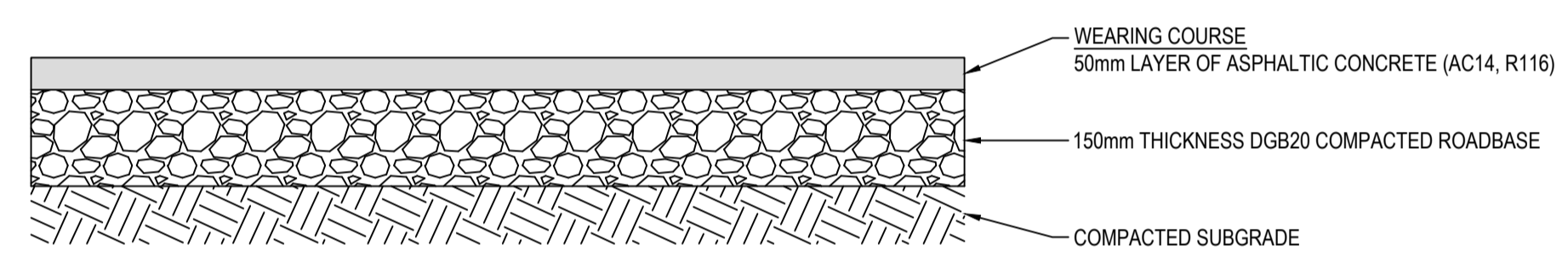
PAVEMENT TYPE 3
SHARED PATH/FOOTPATH
 1 : 10



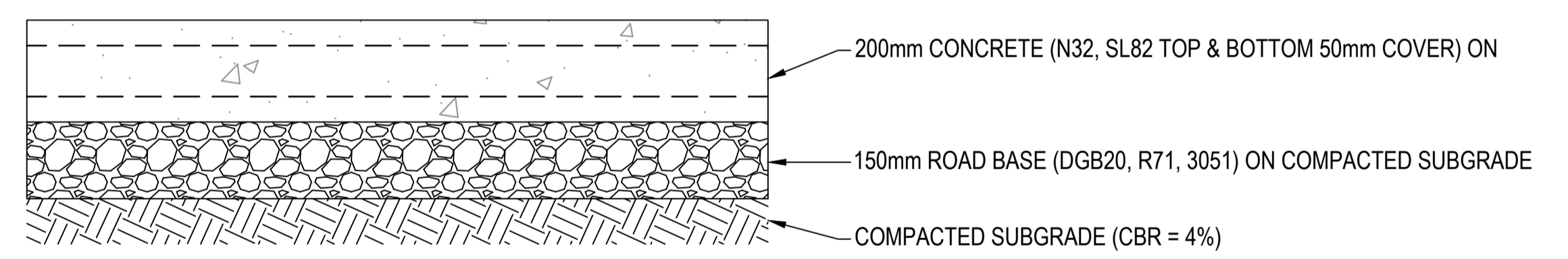
PAVEMENT TYPE 4
RAISED MEDIAN INFILL
 1 : 10



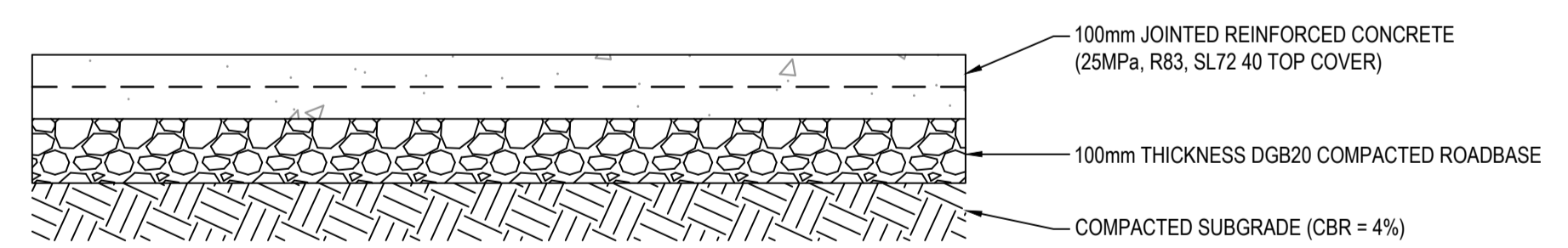
PAVEMENT TYPE 5
RAISED MEDIAN INFILL
 1 : 10



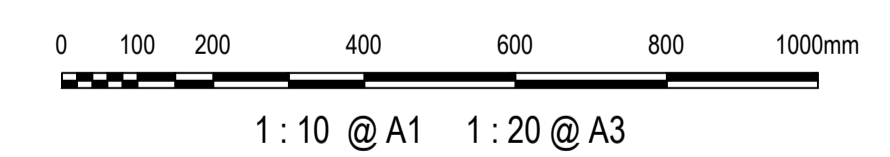
PAVEMENT TYPE 6
ACCESS DRIVEWAY
 1 : 10
 (PENRITH CITY COUNCIL STANDARD DRAWING SD1005)



PAVEMENT TYPE 7
SUBSTATION ACCESS DRIVEWAY
 1 : 10
 (PENRITH CITY COUNCIL STANDARD DRAWING SD1005)



PAVEMENT TYPE 8
SUBSTATION TRACK PAVEMENT
 1 : 10



- NOTES**
- THE ASPHALT LAYER WILL VARY IN THICKNESS TO MATCH THE ADJACENT EXISTING ASPHALT LAYER. CONSIDERATION OF A SYNTHETIC LINER TO TNSW SPECIFICATIONS ALONG THE EXISTING JOINT INTERFACE TO REDUCE REFLECTIVE CRACKING.
 - HIGH FRICTION ASPHALT (HFA) WEARING SURFACE MUST BE PROVIDED FOR 50m ON THE APPROACH TO SIGNALISED INTERSECTION (ALL APPROACHES), THROUGH THE INTERSECTION, AND TERMINATE AT LEAST 5m PAST THE DEPARTURE SIDE MEDIAN NOSE (AS PER CLAUSE 2.2.8 OF TNSW SPEC PS341). HIGH FRICTION ASPHALT MUST ACHIEVE MINIMUM PAFV>=58 FOR WEARING COURSE AGGREGATES (WHICH CAN BE ACHIEVED WITH COMPLIING SLAG AGGREGATES).

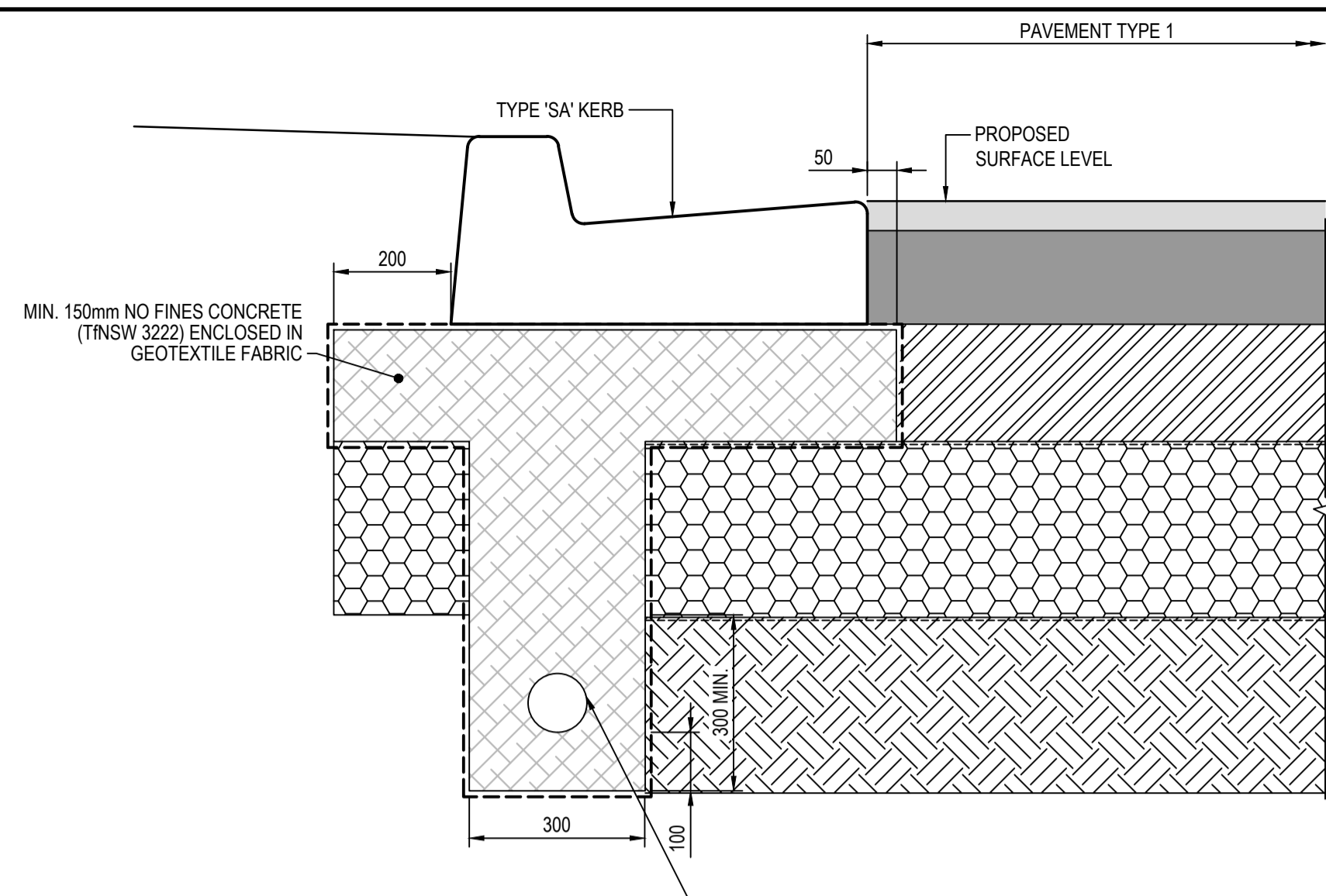
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	FRASERS PROPERTY, ESR, Stockland, FIFECAPITAL
Scales	AS SHOWN
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT PROFILES
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	PV-2520
Issue	1

Civil Engineers and Project Managers

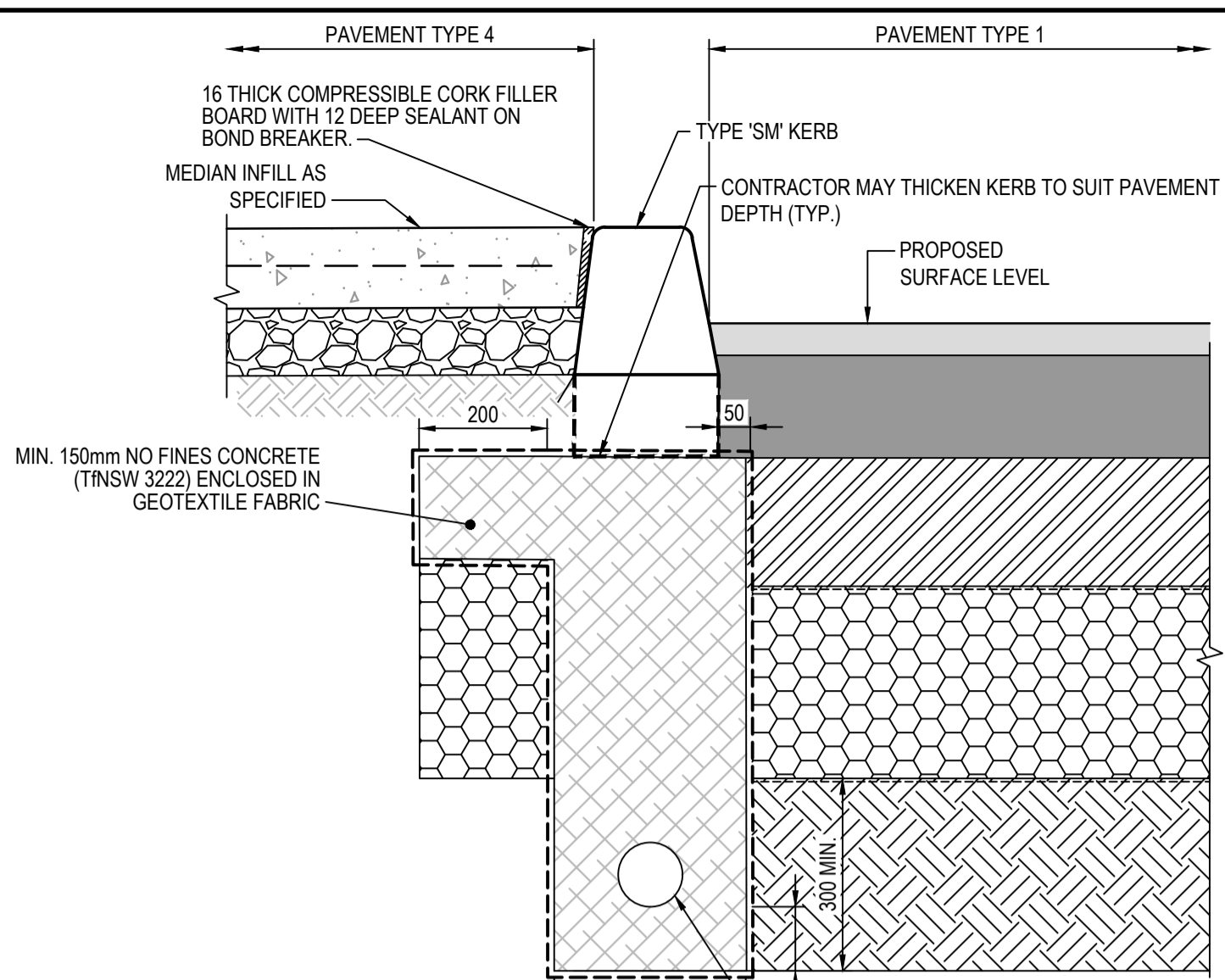
at&I

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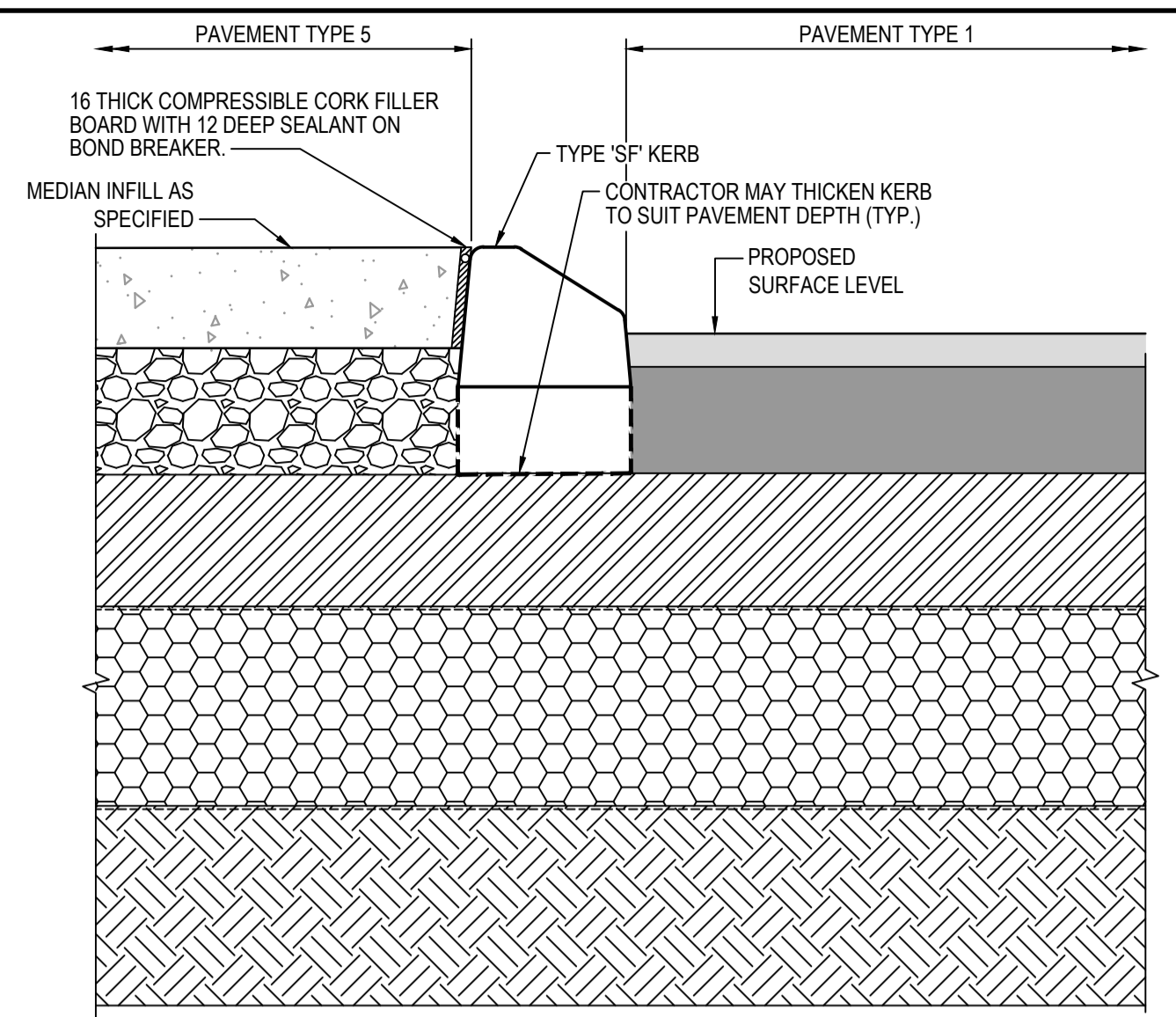
DETAIL 1
1 : 10
PV2501-PV2508

100mmØ PERFORATED PIPE ENCLOSED IN SEAMLESS FILER SOCK. SUBSOIL DRAIN TO CONSIST OF NO-FINES CONCRETE ENCLOSED IN GEOTEXTILE FABRIC. SUBSOIL PIPE TO DISCHARGE INTO DOWNSTREAM GULLY PIT OR EXISTING SUBSOIL LINE. Min 1.0% GRADE (TNSW 3222).

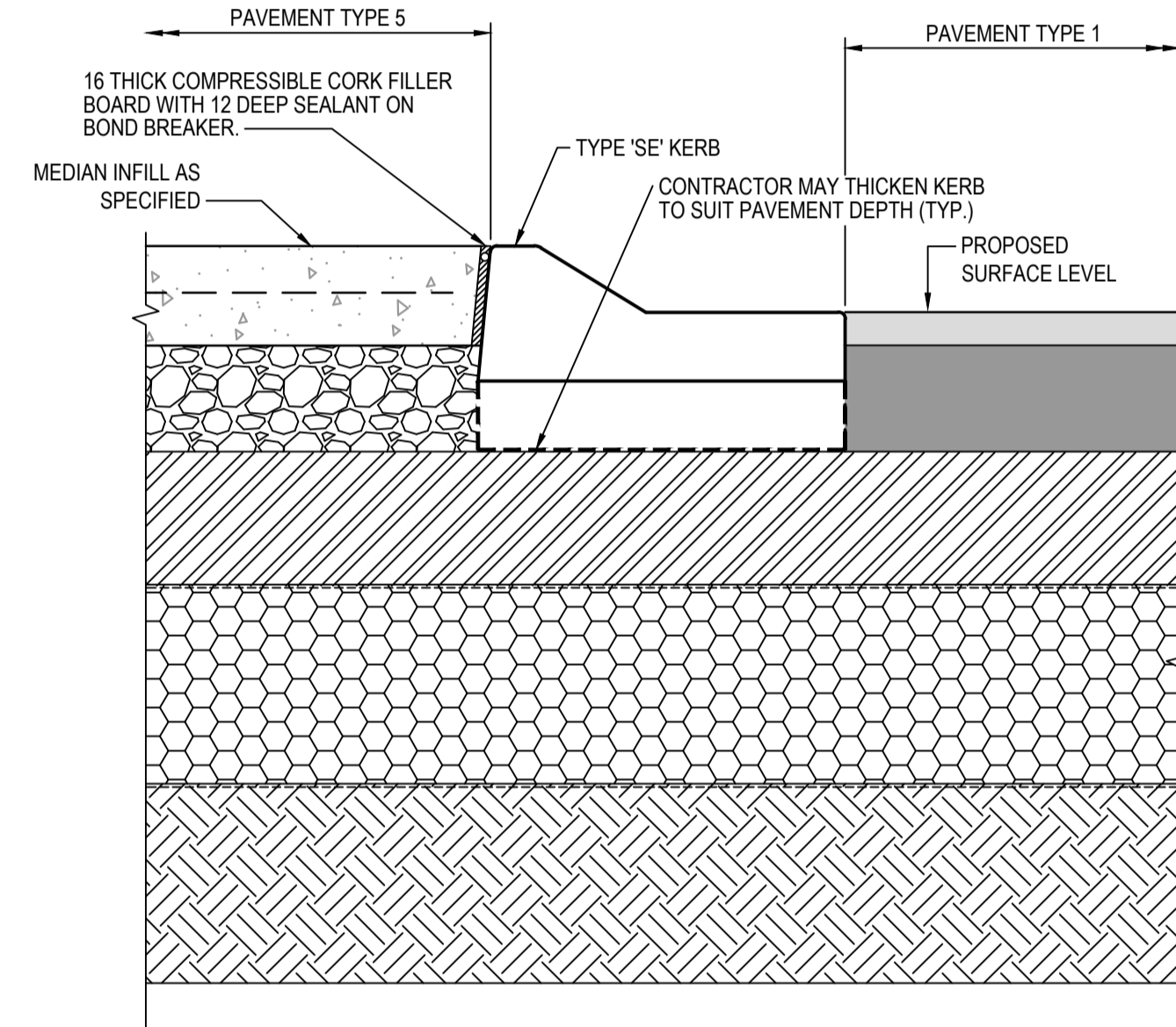


DETAIL 2
1 : 10
PV2501-PV2508

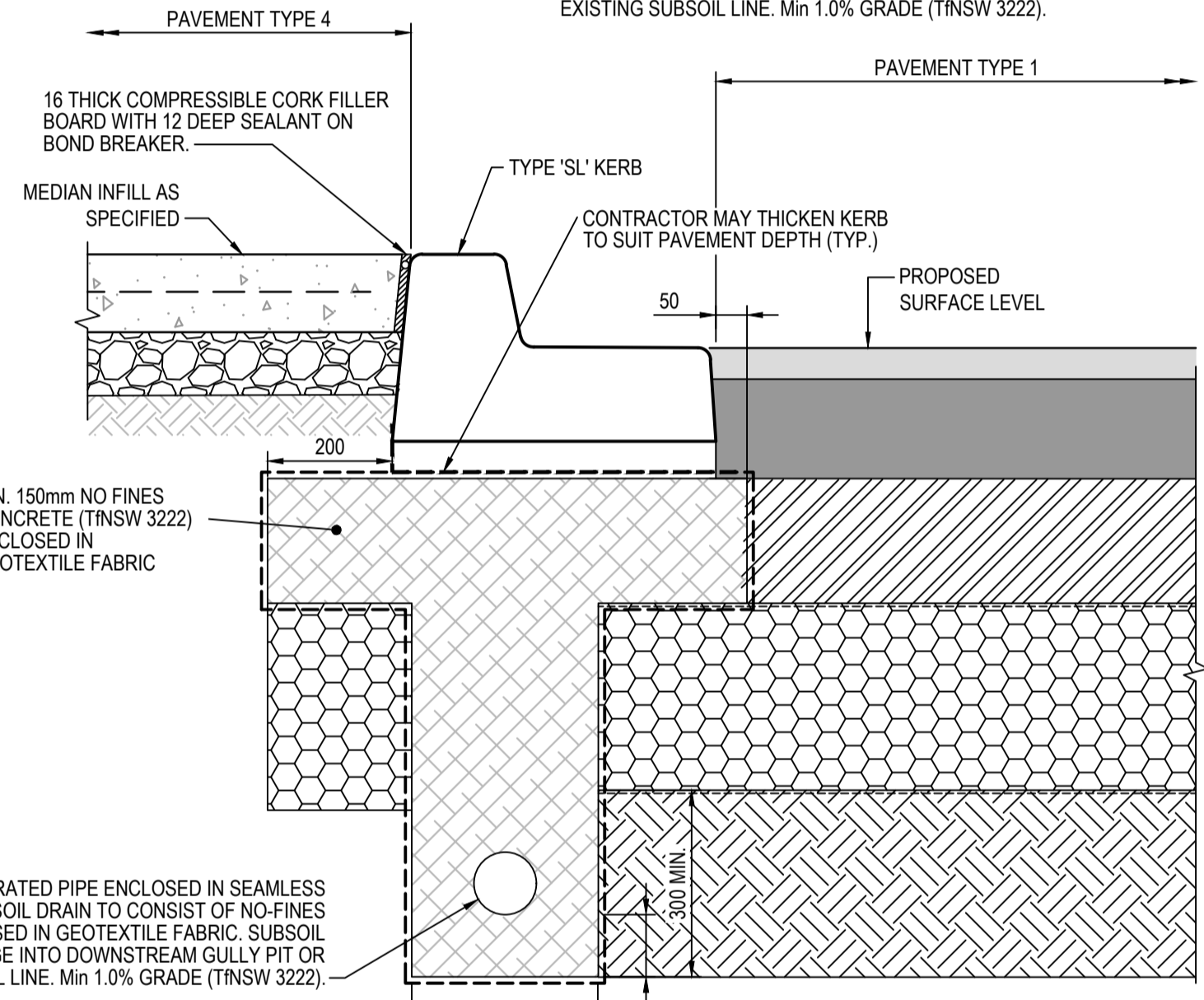
100mmØ PERFORATED PIPE ENCLOSED IN SEAMLESS FILER SOCK. SUBSOIL DRAIN TO CONSIST OF NO-FINES CONCRETE ENCLOSED IN GEOTEXTILE FABRIC. SUBSOIL PIPE TO DISCHARGE INTO DOWNSTREAM GULLY PIT OR EXISTING SUBSOIL LINE. Min 1.0% GRADE (TNSW 3222).



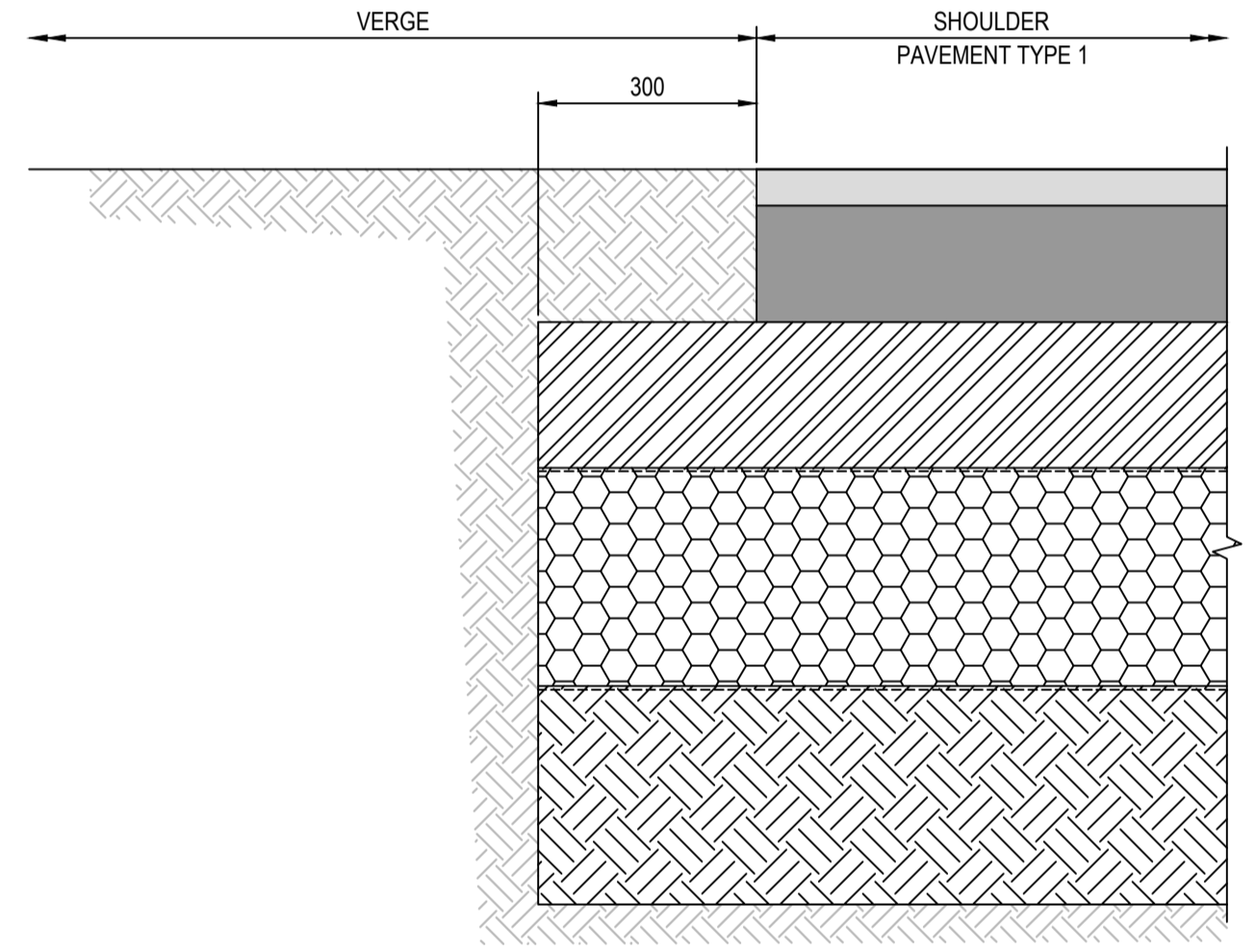
DETAIL 3
1 : 10
PV2501-PV2508



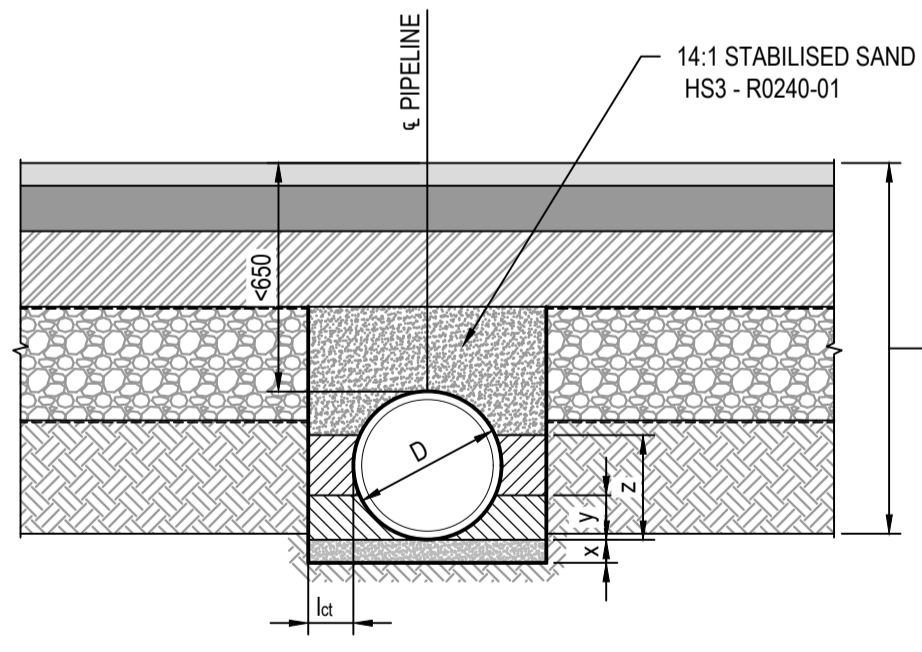
DETAIL 4
1 : 10
PV2501-PV2508



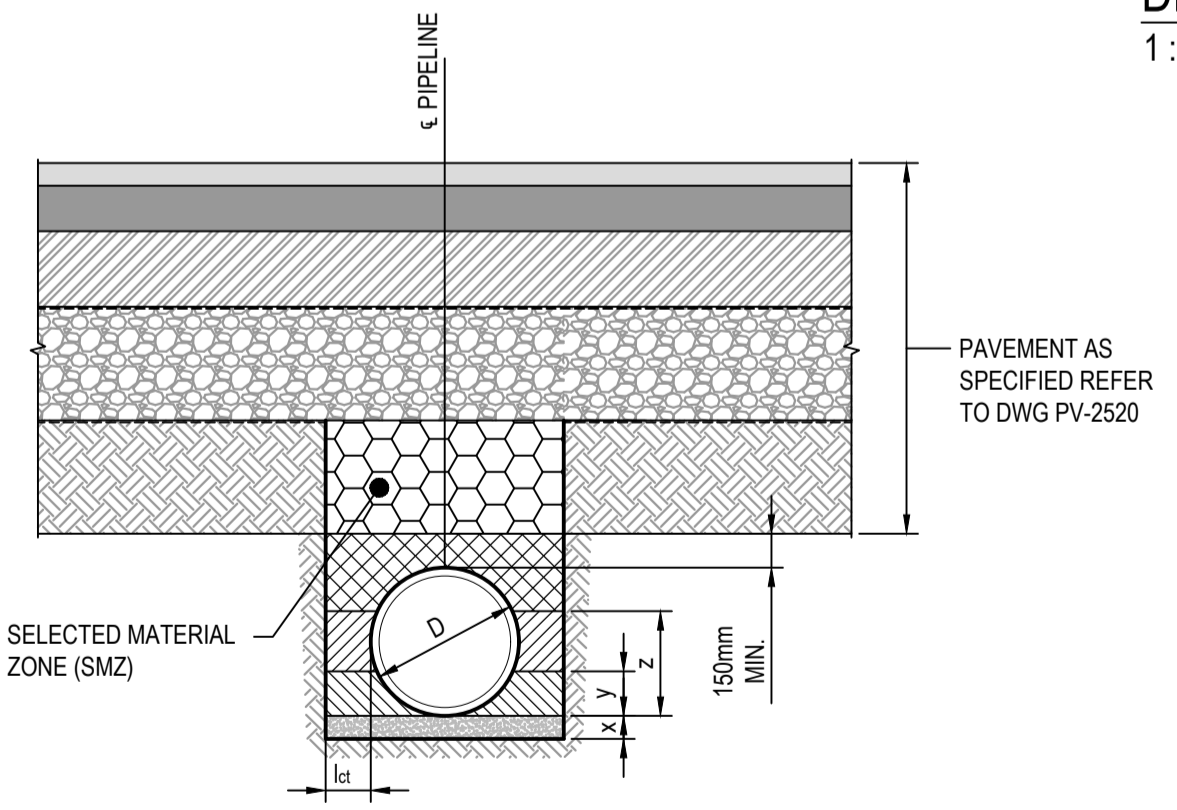
DETAIL 5
1 : 10
PV2501-PV2508



DETAIL 6
1 : 10
PV2501-PV2508

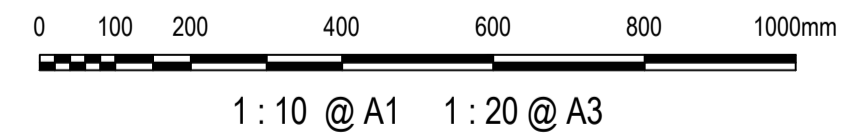


PIPE TRENCH BELOW PAVEMENT (<710mm COVER)
N.T.S.



PIPE TRENCH BELOW PAVEMENT (>710mm COVER)
N.T.S.

PIPE SIZE (mm) NOMINAL INTERNAL DIAMETER	MINIMUM DEPTH (mm)			MINIMUM DISTANCE(mm)			
	BED x	HAUNCH y	SIDE z-y	SELECT FILL l _c l _{ct}		CLSM l _c l _{ct}	
375	100	170	110	400	450	130	150
450	100	200	130	400	450	130	160
525	100	220	150	400	450	140	170
600	100	250	170	400	500	140	180
675	100	280	190	400	500	150	190
750	100	310	210	450	500	150	200
825	100	330	220	450	500	150	200
900	100	360	240	450	500	160	210
1050	100	420	280	450	500	160	220
1200	150	480	310	450	550	1740	230
1350	150	510	340	450	550	170	240
1500	150	580	390	450	600	190	280
1650	150	630	420	450	600	190	280
1800	150	680	370	450	600	200	290
2100	150	710	470	450	600	200	290



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

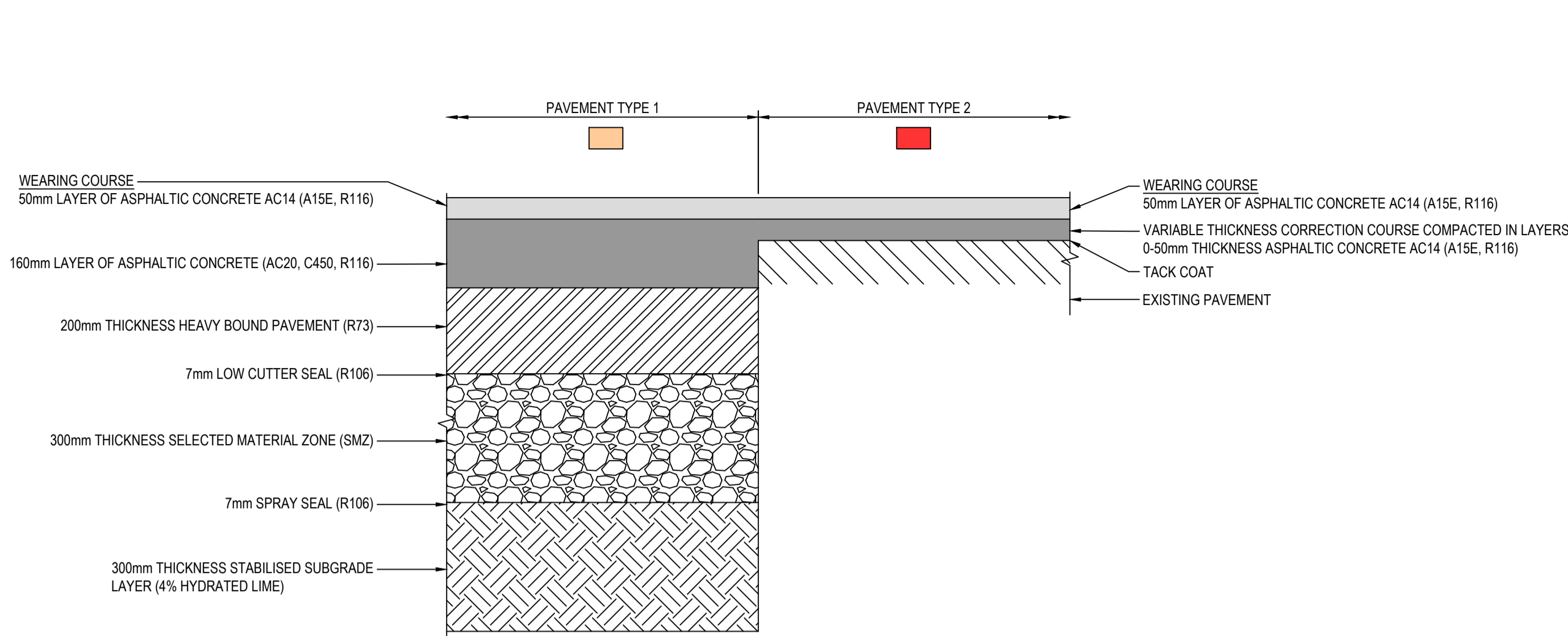
Client	FRASERS PROPERTY ESR Stockland FIFECAPITAL
Scales	AS SHOWN
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	PAVEMENT EDGE DETAILS
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	PV-2521
Issue	1

Civil Engineers and Project Managers

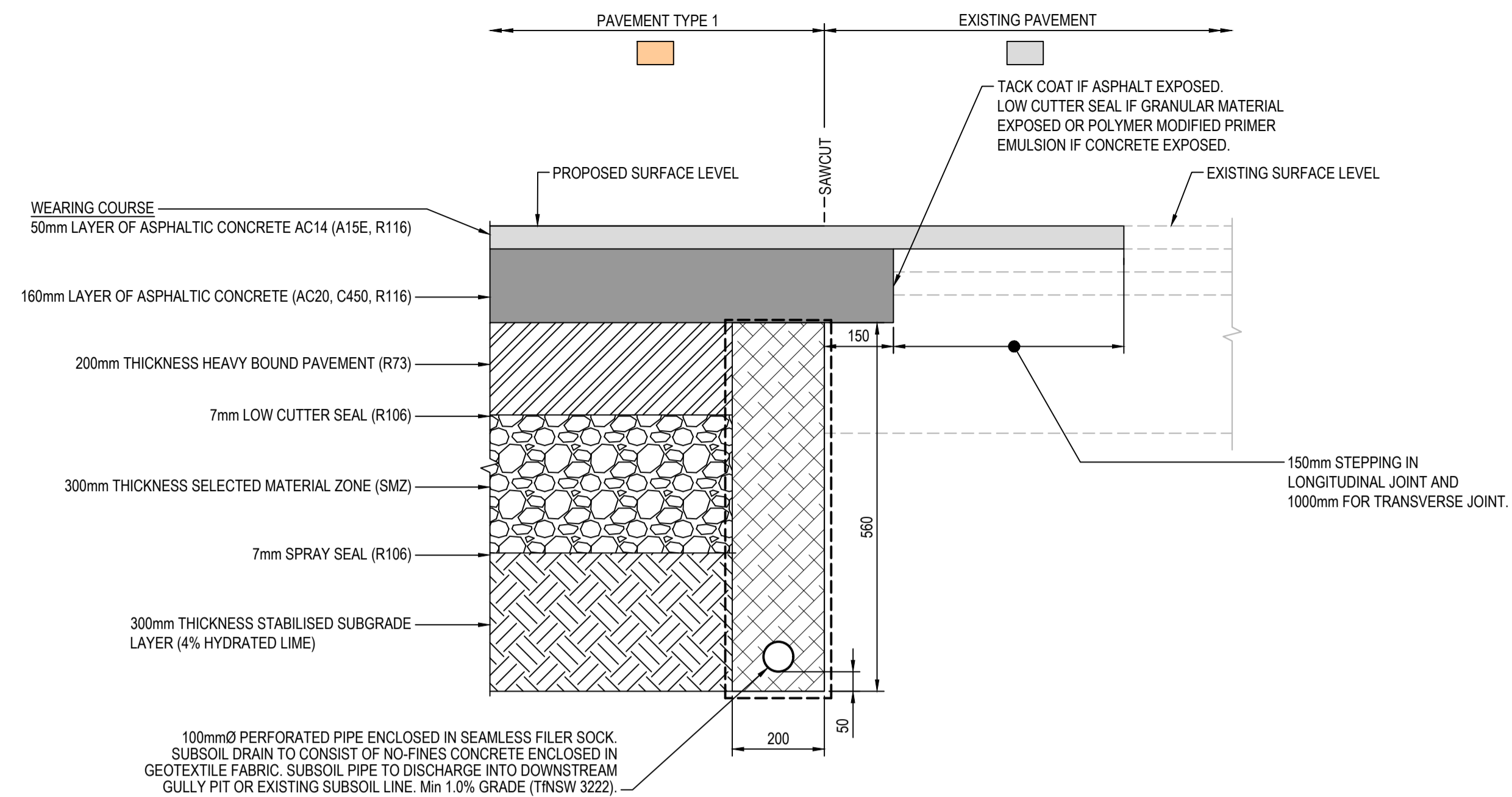
at&

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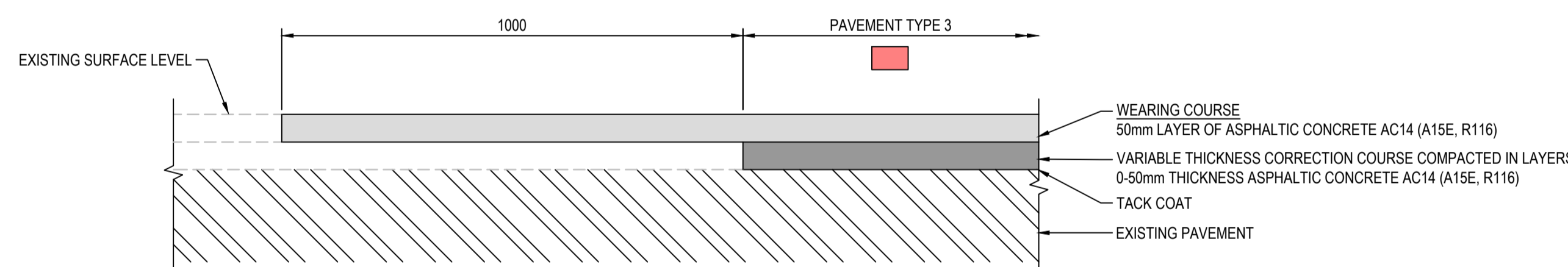
Date Plotted: 3 Nov 2023 - 06:04PM File Name: F:\21-843 Aldington Road Design\6.0 Drgs\Civil\Final\2000_Mamre Rd Abbots Rd Intersection Design\21-843-07-PV-2521.dwg



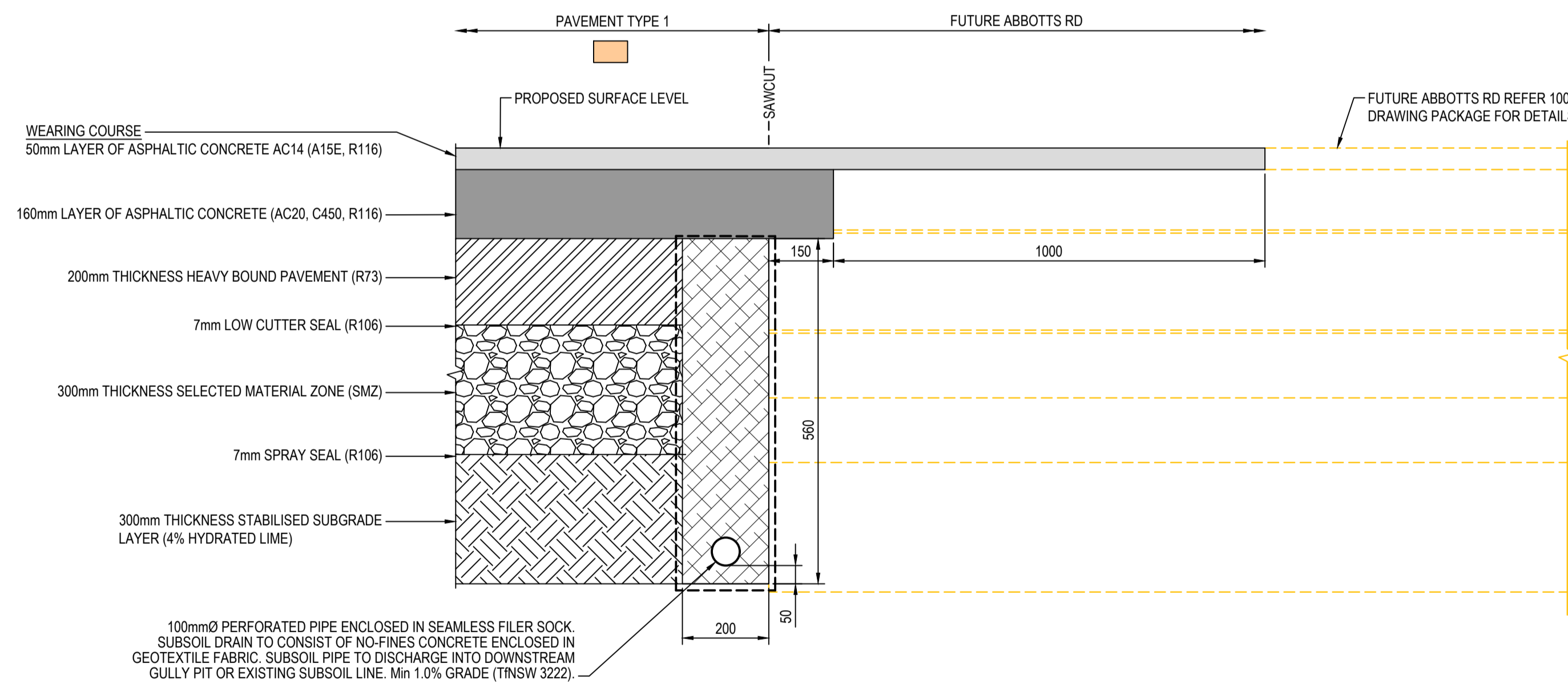
DETAIL 7
1:10 PV2501-PV2508



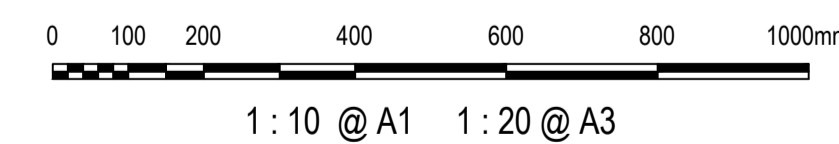
DETAIL 8
1:10 PV2501-PV2508



DETAIL 9
1:10 PV2501-PV2508



DETAIL 10
1:10 PV2501-PV2508



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000	Approved	

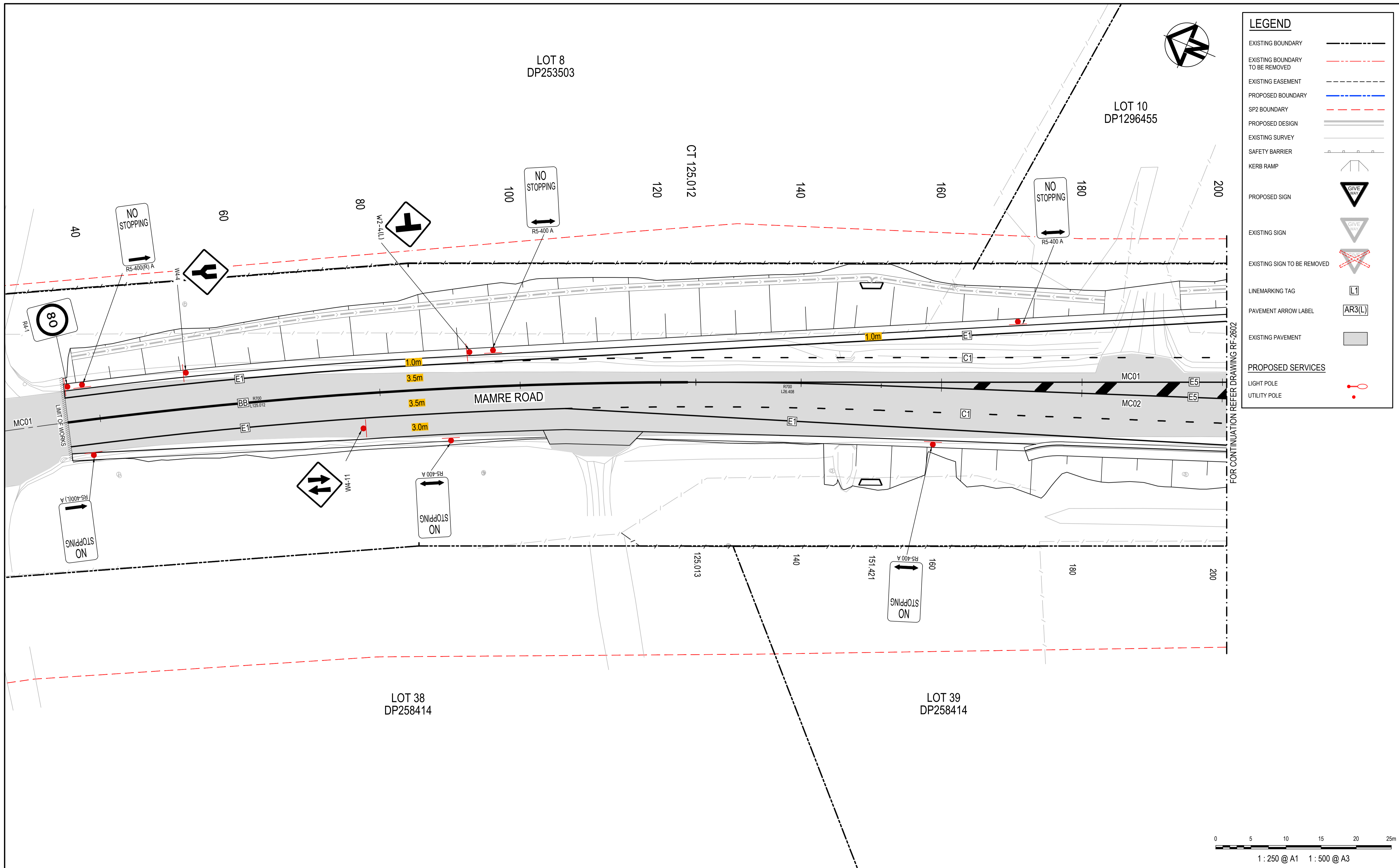
Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
PAVEMENT INTERFACE DETAILS

Civil Engineers and Project Managers

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info@atl.net.au

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	PV-2522	Issue
		1



LEGEND	
EXISTING BOUNDARY	---
EXISTING BOUNDARY TO BE REMOVED	- - - -
EXISTING EASEMENT	---
PROPOSED BOUNDARY	---
SP2 BOUNDARY	- - - -
PROPOSED DESIGN	====
EXISTING SURVEY	---
SAFETY BARRIER	---
KERB RAMP	---
PROPOSED SIGN	
EXISTING SIGN	
EXISTING SIGN TO BE REMOVED	
LINEMARKING TAG	
PAVEMENT ARROW LABEL	
EXISTING PAVEMENT	
PROPOSED SERVICES	
LIGHT POLE	
UTILITY POLE	

FOR CONTINUATION REFER DRAWING RF-2601

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

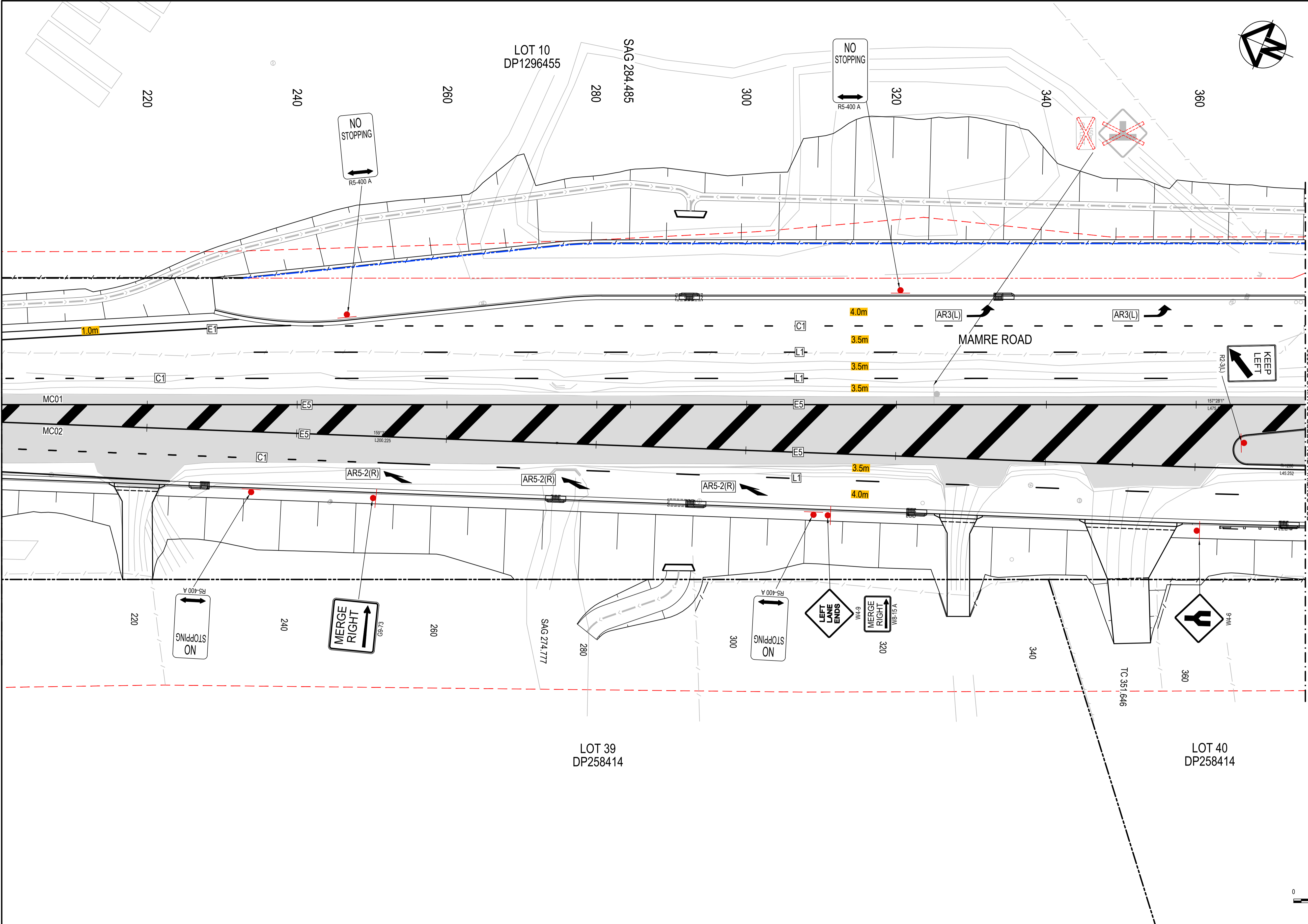
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SIGNAGE AND LINEMARKING PLAN SHEET 1

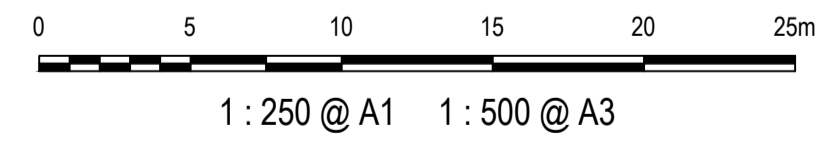
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2601
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
PROPOSED DESIGN	
EXISTING SURVEY	
SAFETY BARRIER	
KERB RAMP	
PROPOSED SIGN	
EXISTING SIGN	
EXISTING SIGN TO BE REMOVED	
LINEMARKING TAG	
PAVEMENT ARROW LABEL	
EXISTING PAVEMENT	
PROPOSED SERVICES	
LIGHT POLE	
UTILITY POLE	

FOR CONTINUATION REFER DRAWING RF-2601

FOR CONTINUATION REFER DRAWING RF-2603



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

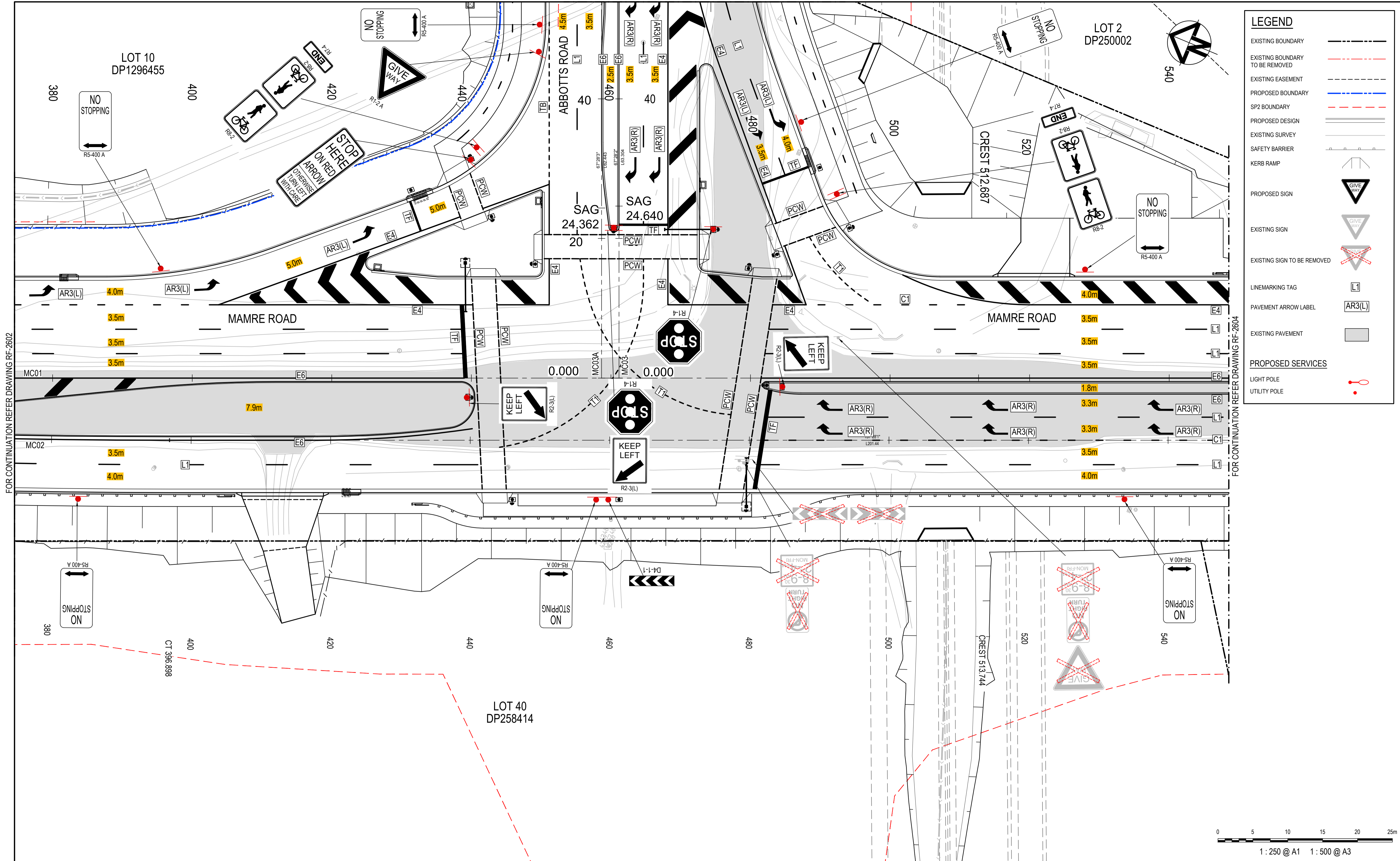
Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SIGNAGE AND LINEMARKING PLAN SHEET 2

Civil Engineers and Project Managers	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RF-2602
Issue	1

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Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au



FOR CONTINUATION REFER DRAWING RF-2602

FOR CONTINUATION REFER DRAWING RF-2604

LEGEND

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING EASEMENT
- PROPOSED BOUNDARY
- SP2 BOUNDARY
- PROPOSED DESIGN
- EXISTING SURVEY
- SAFETY BARRIER
- KERB RAMP
- PROPOSED SIGN
- EXISTING SIGN
- EXISTING SIGN TO BE REMOVED
- LINEMARKING TAG
- PAVEMENT ARROW LABEL
- EXISTING PAVEMENT
- PROPOSED SERVICES
- LIGHT POLE
- UTILITY POLE

Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

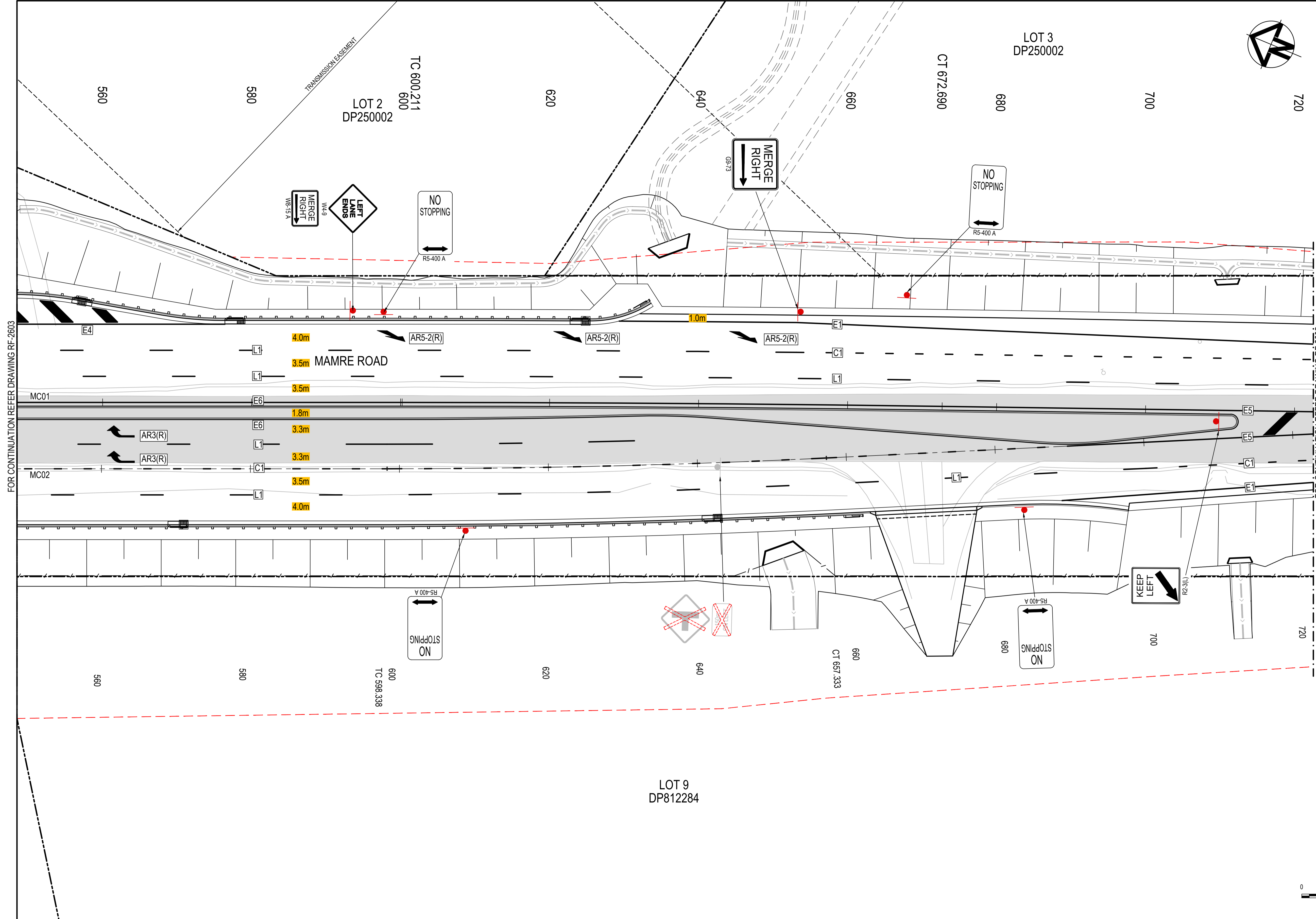
Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SIGNAGE AND LINEMARKING PLAN SHEET 3

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2603
Issue	1

1 : 250 @ A1 1 : 500 @ A3	
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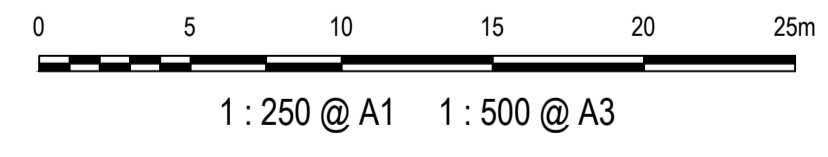


LEGEND

- EXISTING BOUNDARY: Dashed black line
- EXISTING BOUNDARY TO BE REMOVED: Dashed red line
- EXISTING EASEMENT: Dashed blue line
- PROPOSED BOUNDARY: Dashed blue line
- SP2 BOUNDARY: Dashed red line
- PROPOSED DESIGN: Solid grey line
- EXISTING SURVEY: Dotted grey line
- SAFETY BARRIER: Zigzag line
- KERB RAMP: Arrow pointing up
- PROPOSED SIGN: Triangle with black border and white background
- EXISTING SIGN: Triangle with grey border and white background
- EXISTING SIGN TO BE REMOVED: Triangle with red border and red 'X' over it
- LINEMARKING TAG: 'L1' in a box
- PAVEMENT ARROW LABEL: 'AR3(L)' in a box
- EXISTING PAVEMENT: Grey shaded area
- PROPOSED SERVICES: Red dots
- LIGHT POLE: Red circle with a vertical line
- UTILITY POLE: Red dot

FOR CONTINUATION REFER DRAWING RF-2603

FOR CONTINUATION REFER DRAWING RF-2605



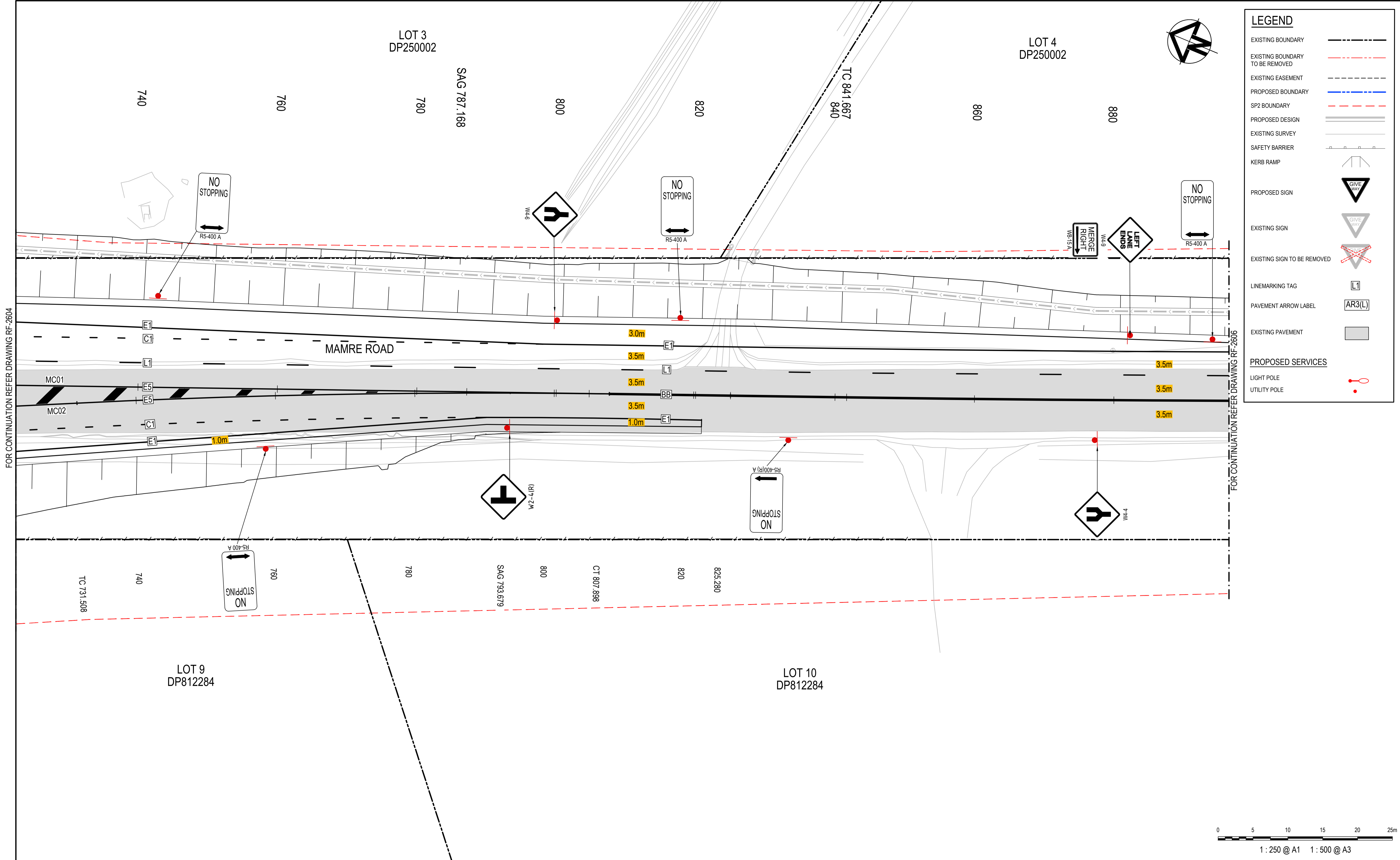
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SIGNAGE AND LINEMARKING PLAN SHEET 4

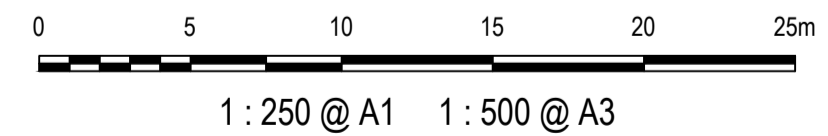
Civil Engineers and Project Managers	 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RF-2604
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
PROPOSED DESIGN	
EXISTING SURVEY	
SAFETY BARRIER	
KERB RAMP	
PROPOSED SIGN	
EXISTING SIGN	
EXISTING SIGN TO BE REMOVED	
LINEMARKING TAG	
PAVEMENT ARROW LABEL	
EXISTING PAVEMENT	
PROPOSED SERVICES	
LIGHT POLE	
UTILITY POLE	

FOR CONTINUATION REFER DRAWING RF-2604

FOR CONTINUATION REFER DRAWING RF-2606

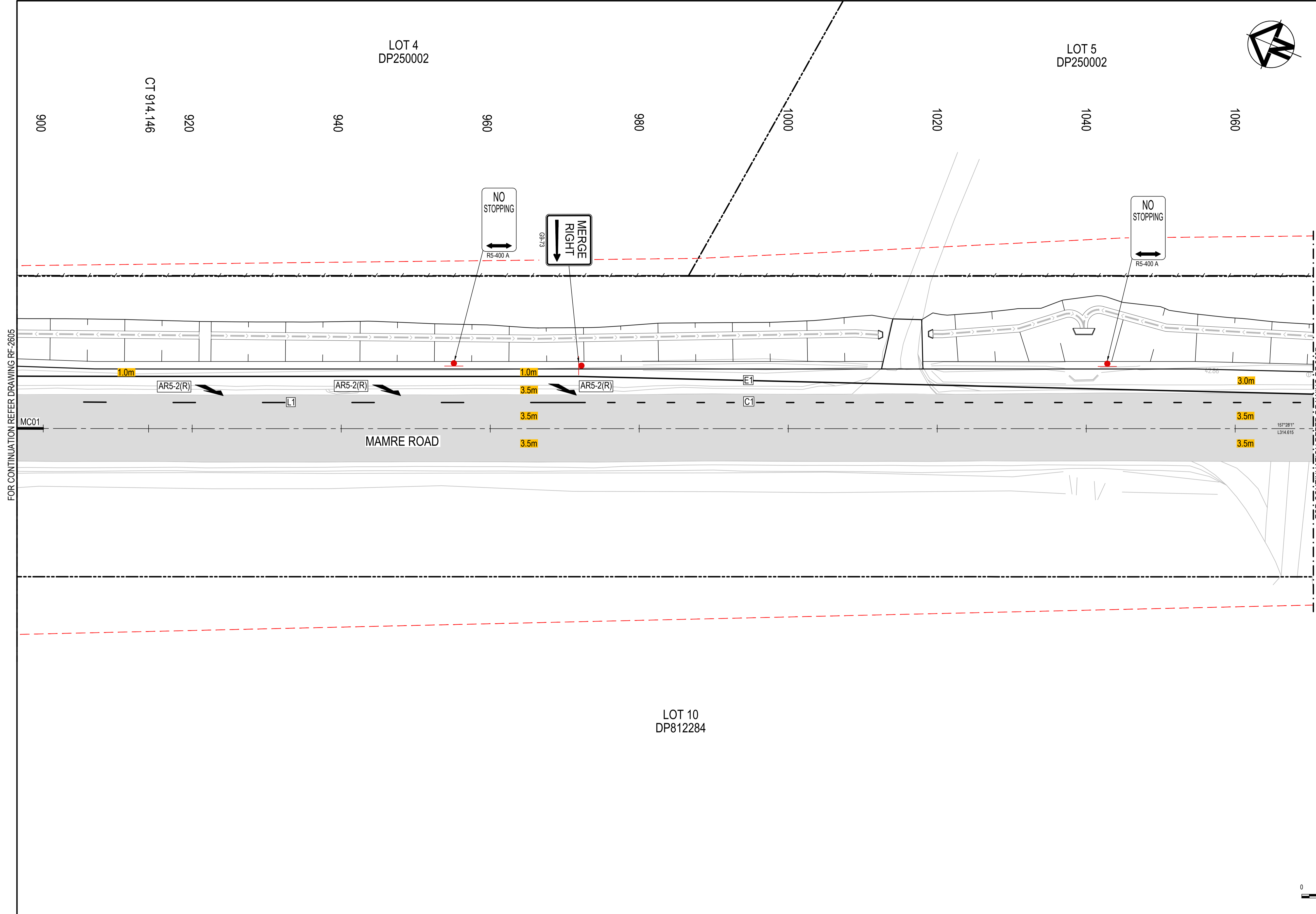


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TfNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SIGNAGE AND LINEMARKING PLAN SHEET 5

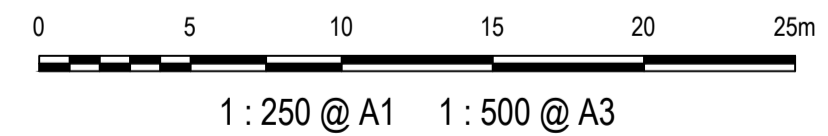
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2605
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
PROPOSED DESIGN	
EXISTING SURVEY	
SAFETY BARRIER	
KERB RAMP	
PROPOSED SIGN	
EXISTING SIGN	
EXISTING SIGN TO BE REMOVED	
LINEMARKING TAG	
PAVEMENT ARROW LABEL	
EXISTING PAVEMENT	
PROPOSED SERVICES	
LIGHT POLE	
UTILITY POLE	

FOR CONTINUATION REFER DRAWING RF-2605

FOR CONTINUATION REFER DRAWING RF-2607



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

LOT 4
DP250002

LOT 5
DP250002

LOT 10
DP812284

MAMRE ROAD

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TTNSW REGISTRATION No.	DS2000/000000	Approved	

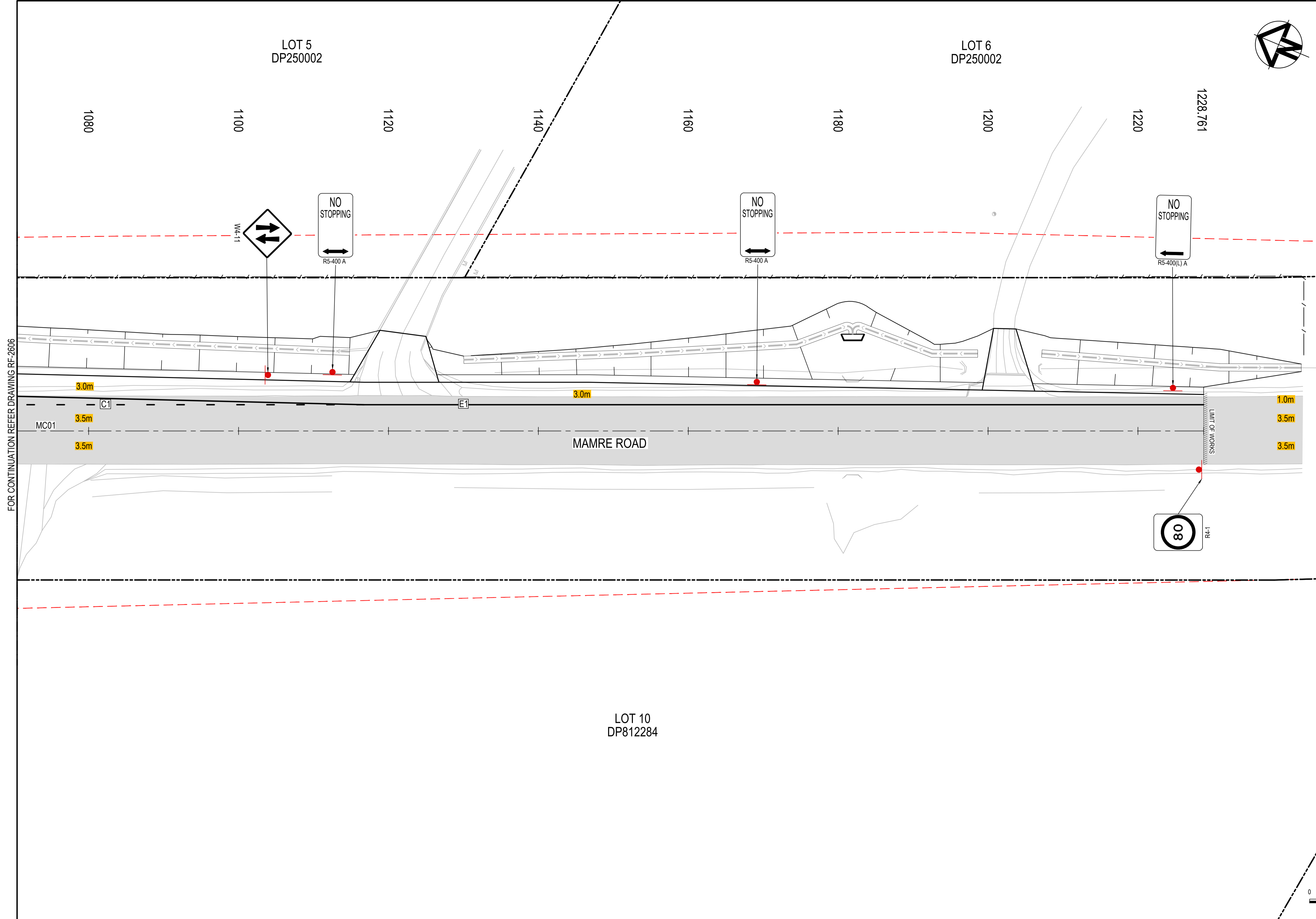
Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**SIGNAGE AND
LINEMARKING
PLAN
SHEET 6**

Civil Engineers and Project Managers

Level 7, 153 Walker Street
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info@atl.net.au

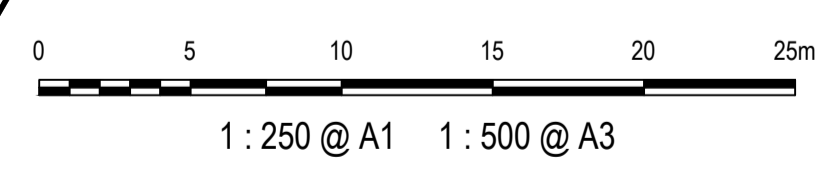
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	RF-2606	Issue
		1



LEGEND

- EXISTING BOUNDARY: Dashed black line
- EXISTING BOUNDARY TO BE REMOVED: Dashed red line
- EXISTING EASEMENT: Dotted black line
- PROPOSED BOUNDARY: Dashed blue line
- SP2 BOUNDARY: Dashed red line
- PROPOSED DESIGN: Double parallel lines
- EXISTING SURVEY: Dotted grey line
- SAFETY BARRIER: Dashed line with triangles
- KERB RAMP: Arrow pointing up
- PROPOSED SIGN: Triangle with 'GIVE WAY' text
- EXISTING SIGN: Triangle with 'GIVE WAY' text and 'EXISTING' label
- EXISTING SIGN TO BE REMOVED: Triangle with 'GIVE WAY' text and 'TO BE REMOVED' label
- LINEMARKING TAG: Square with 'L1' text
- PAVEMENT ARROW LABEL: Square with 'AR3(L)' text
- EXISTING PAVEMENT: Grey shaded area
- PROPOSED SERVICES:
 - LIGHT POLE: Red circle with dot
 - UTILITY POLE: Red circle with dot

FOR CONTINUATION REFER DRAWING RF-2606



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TTNSW REGISTRATION No.	DS2000/000000		

Project

**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title

**SIGNAGE AND
LINEMARKING
PLAN
SHEET 7**

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

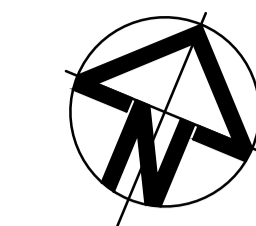
**FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION**

Project - Drawing No.

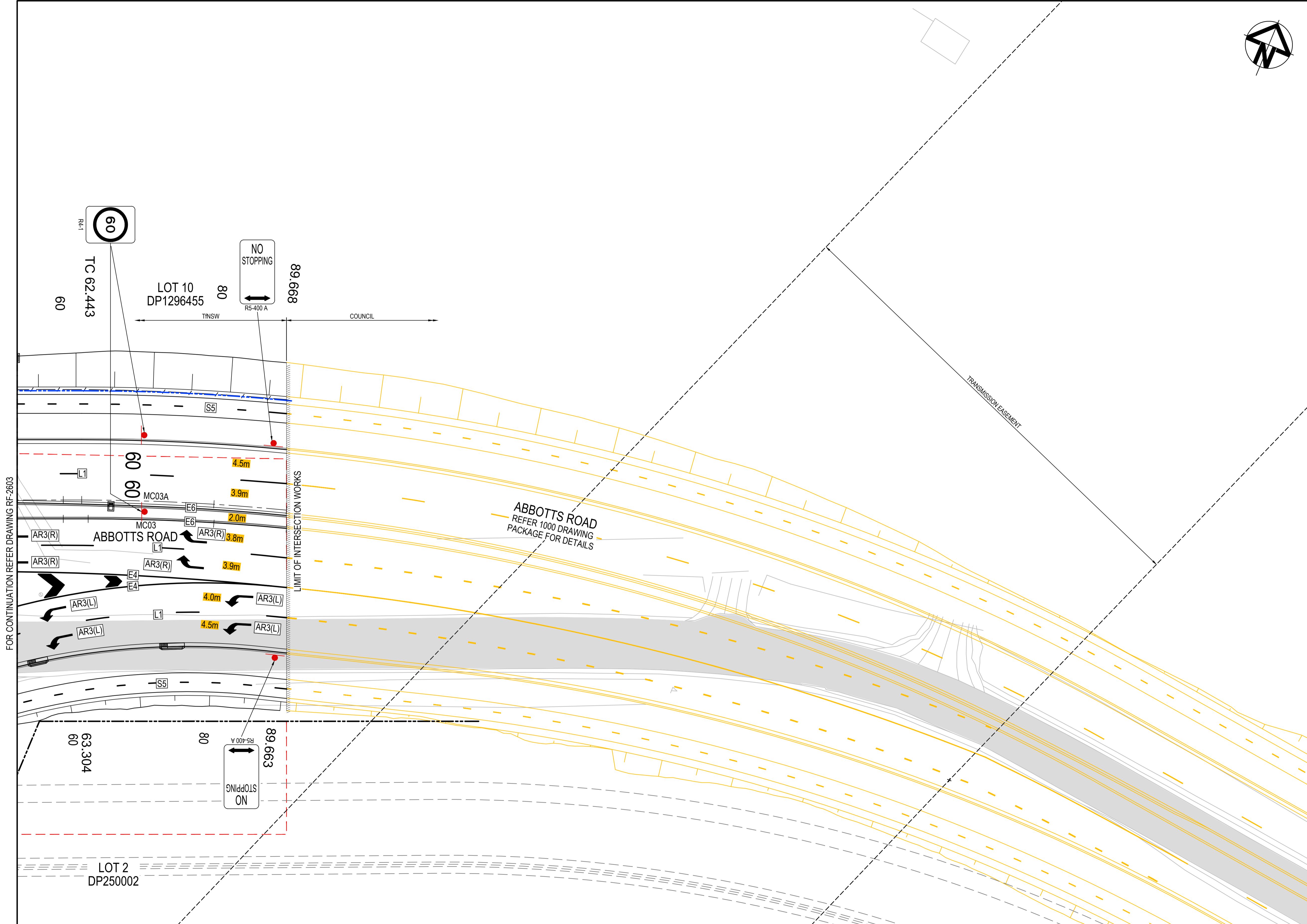
RF-2607

Issue

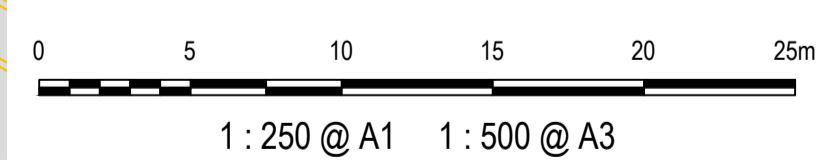
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LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
PROPOSED DESIGN	
EXISTING SURVEY	
SAFETY BARRIER	
KERB RAMP	
PROPOSED SIGN	
EXISTING SIGN	
EXISTING SIGN TO BE REMOVED	
LINEMARKING TAG	
PAVEMENT ARROW LABEL	
EXISTING PAVEMENT	
PROPOSED SERVICES	
LIGHT POLE	
UTILITY POLE	

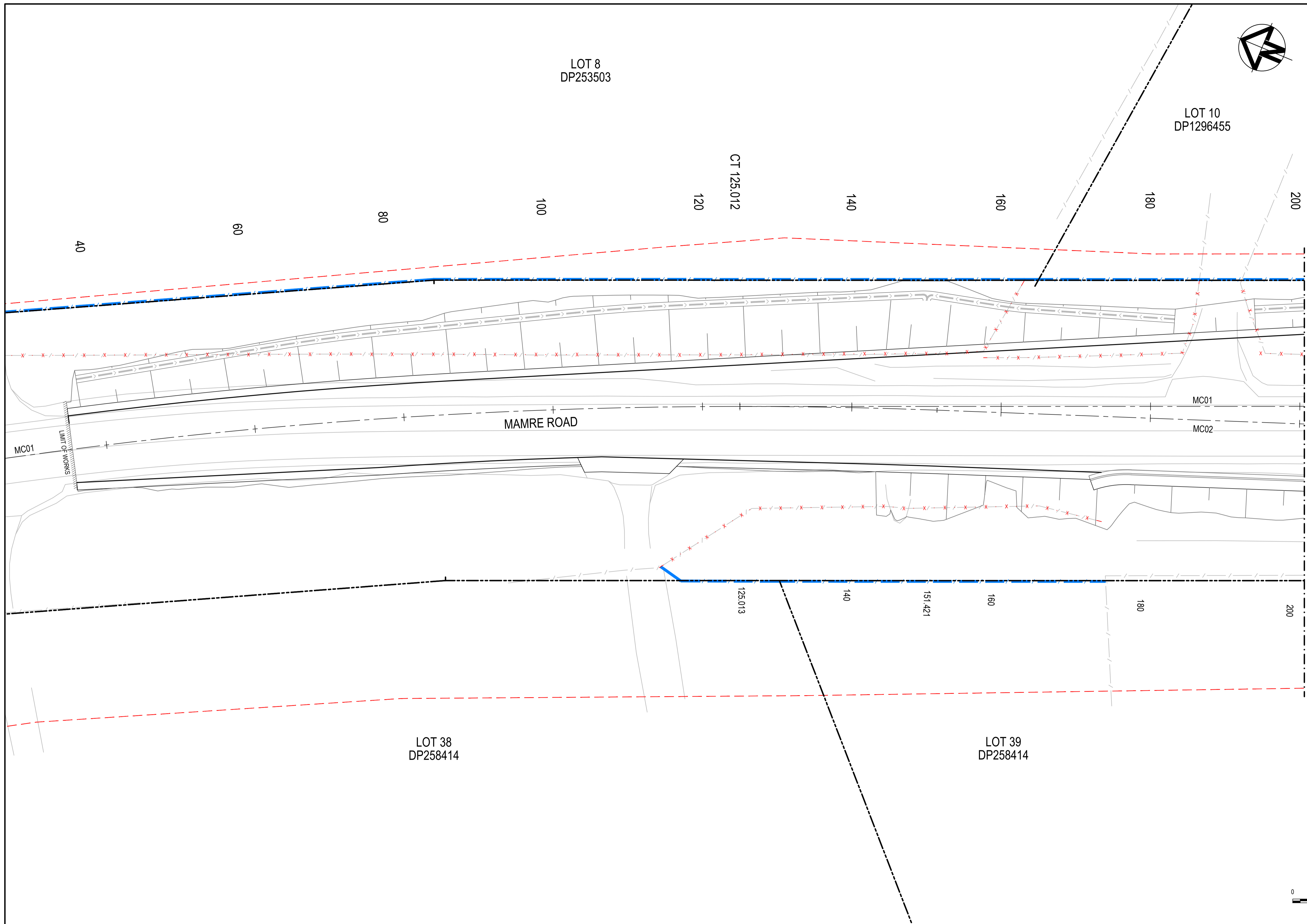


FOR CONTINUATION REFER DRAWING RF-2603

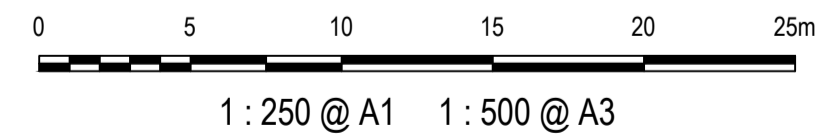


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000
Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	SIGNAGE AND LINEMARKING PLAN SHEET 8
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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RF-2608
Issue	1



ROADWORKS FURNITURE LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SET OUT ON SITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

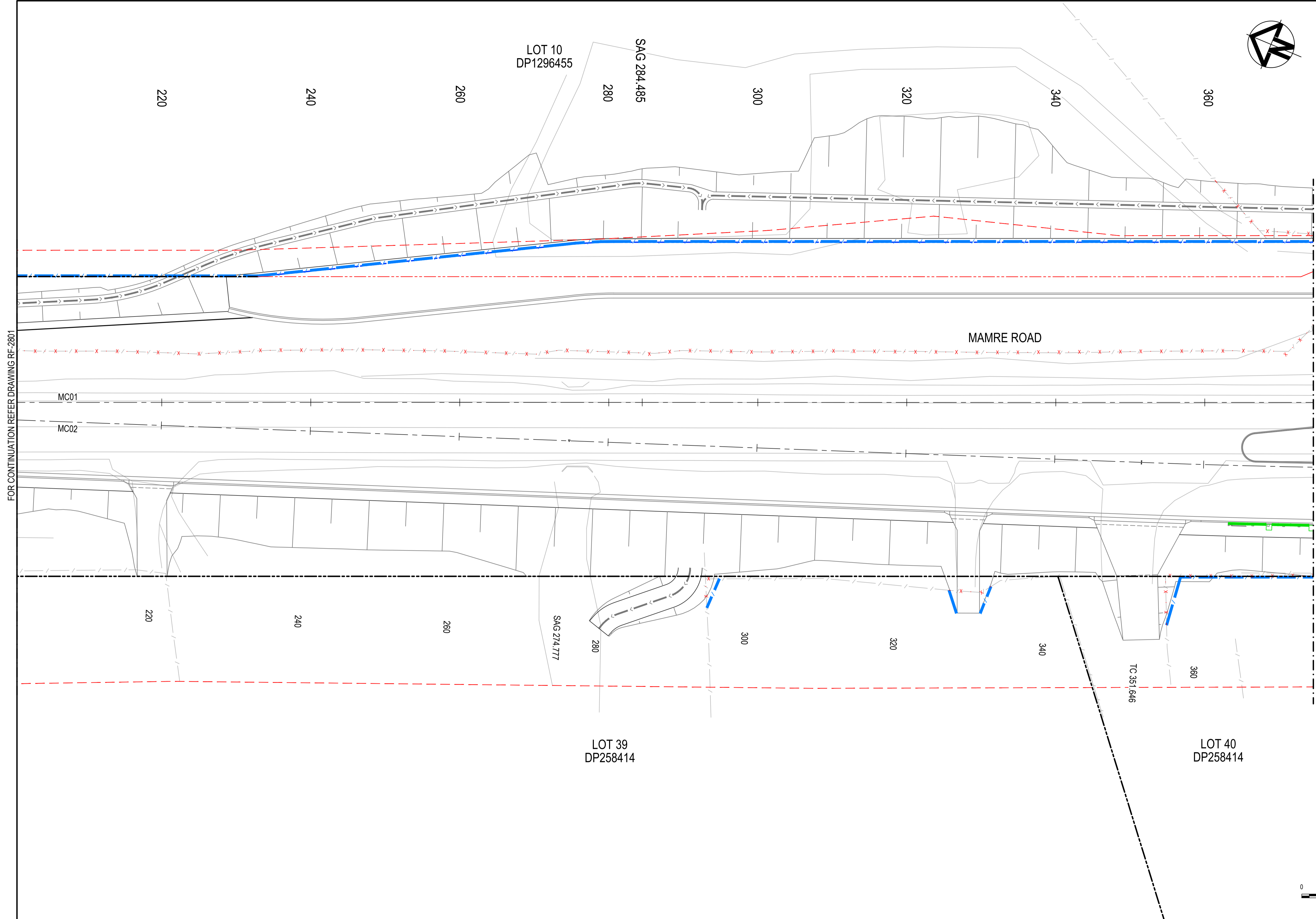
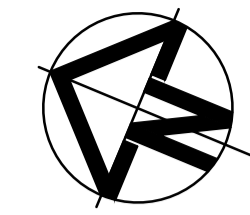
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE 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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2701
Issue	1

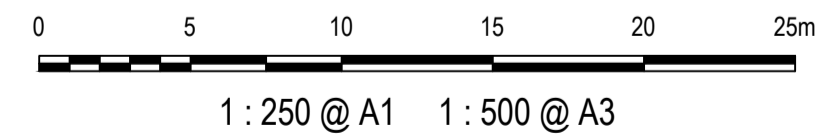
**ROADWORKS
FURNITURE LEGEND**

EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SET OUT ONSITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	



FOR CONTINUATION REFER DRAWING RF-2801

FOR CONTINUATION REFER DRAWING RF-2803



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

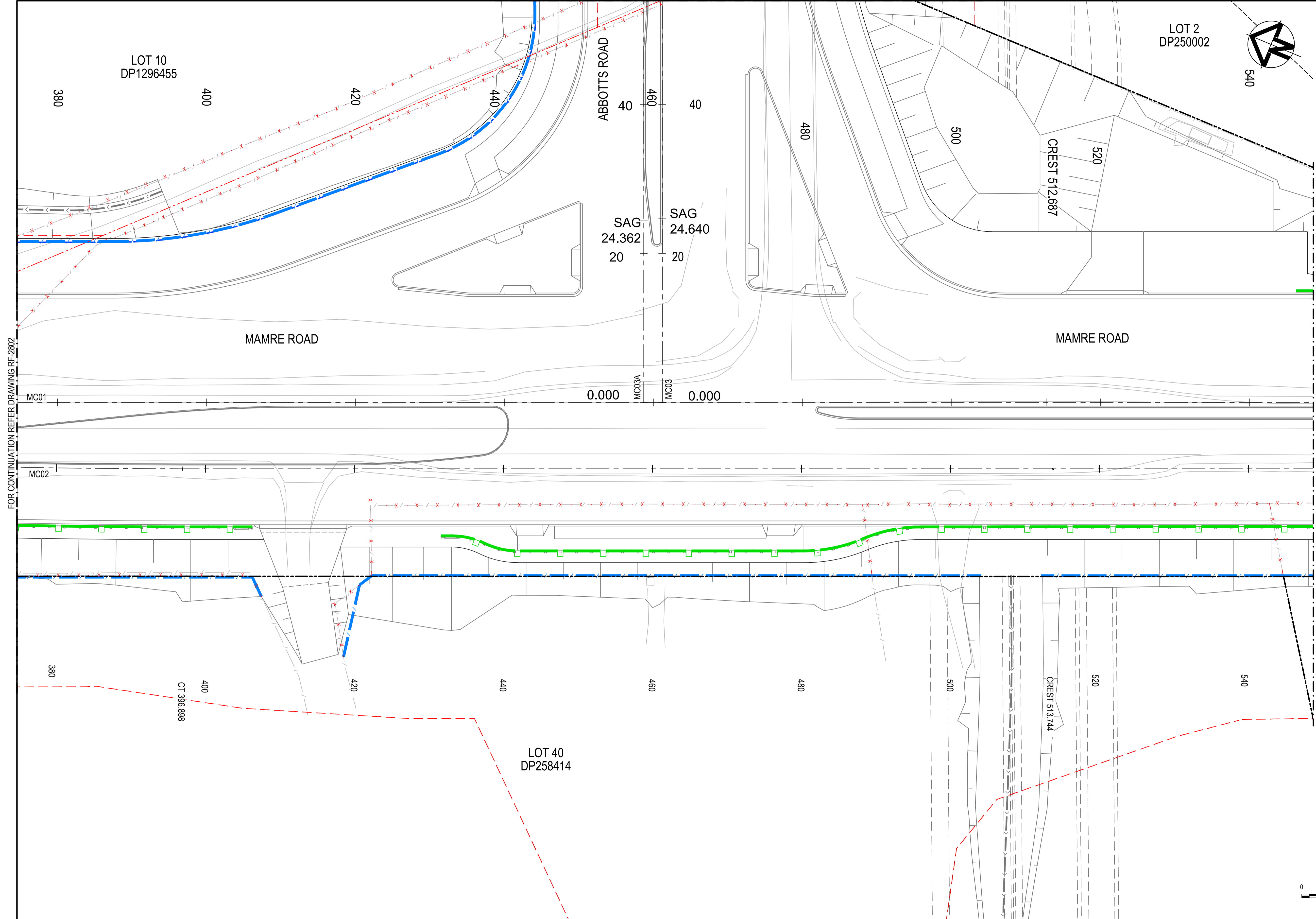
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

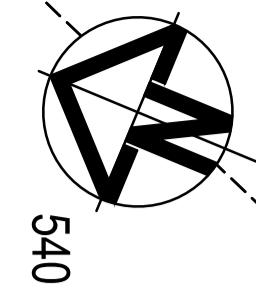
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE 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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2702
Issue	1

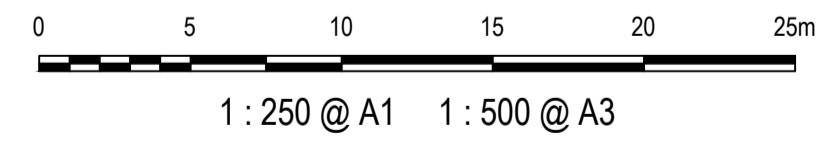


ROADWORKS FURNITURE LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SETOUT ONSITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	



FOR CONTINUATION REFER DRAWING RF-2802

FOR CONTINUATION REFER DRAWING RF-2804

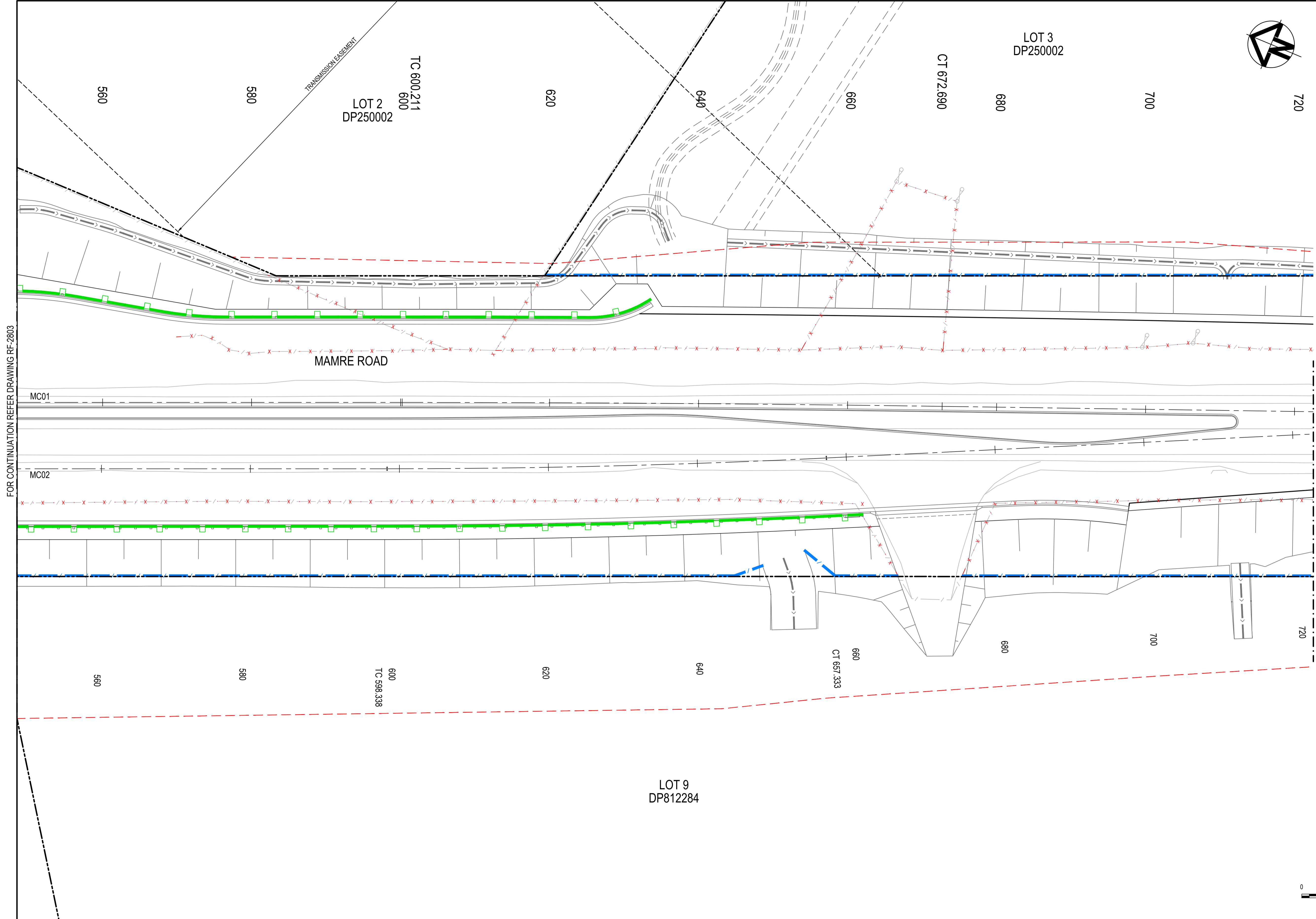


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

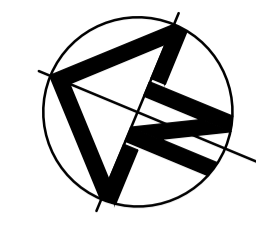
Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE PLAN SHEET 3

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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2703
Issue	1

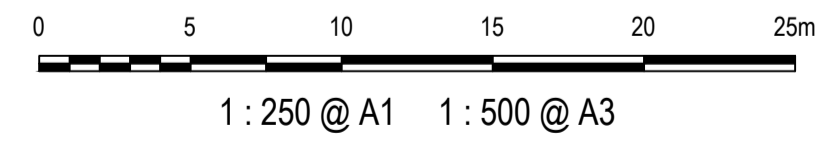


ROADWORKS FURNITURE LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SET OUT ON SITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	



FOR CONTINUATION REFER DRAWING RF-2803

FOR CONTINUATION REFER DRAWING RF-2805



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

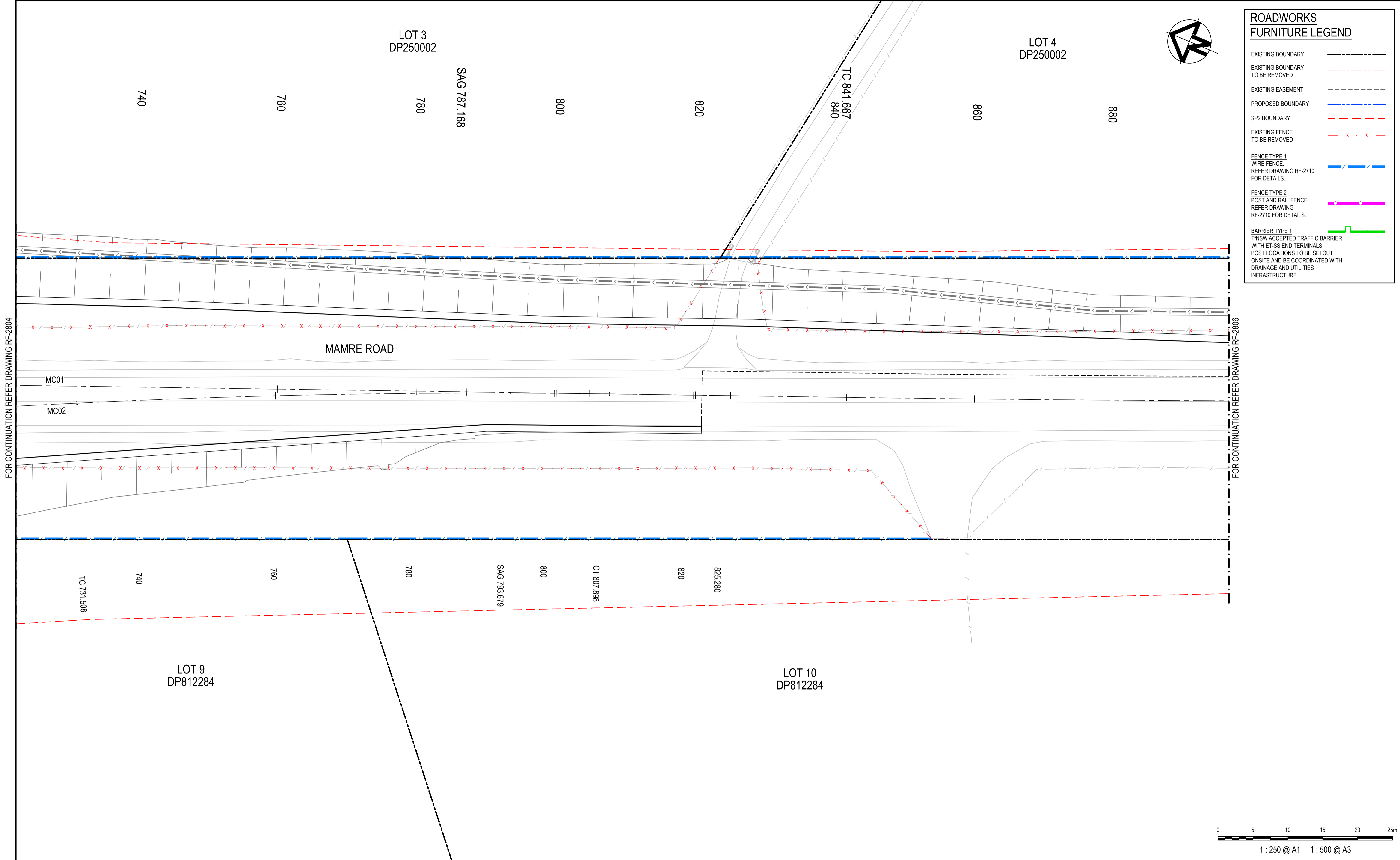
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE PLAN SHEET 4

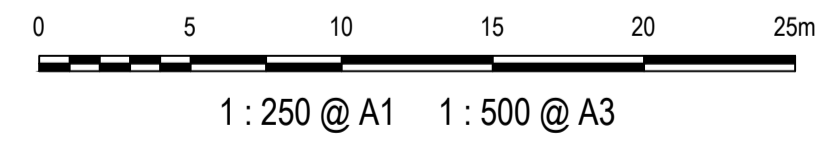
Civil Engineers and Project Managers	
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2704
Issue	1



ROADWORKS	
FURNITURE LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SET OUT ONSITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	

FOR CONTINUATION REFER DRAWING RF-2804

FOR CONTINUATION REFER DRAWING RF-2806



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

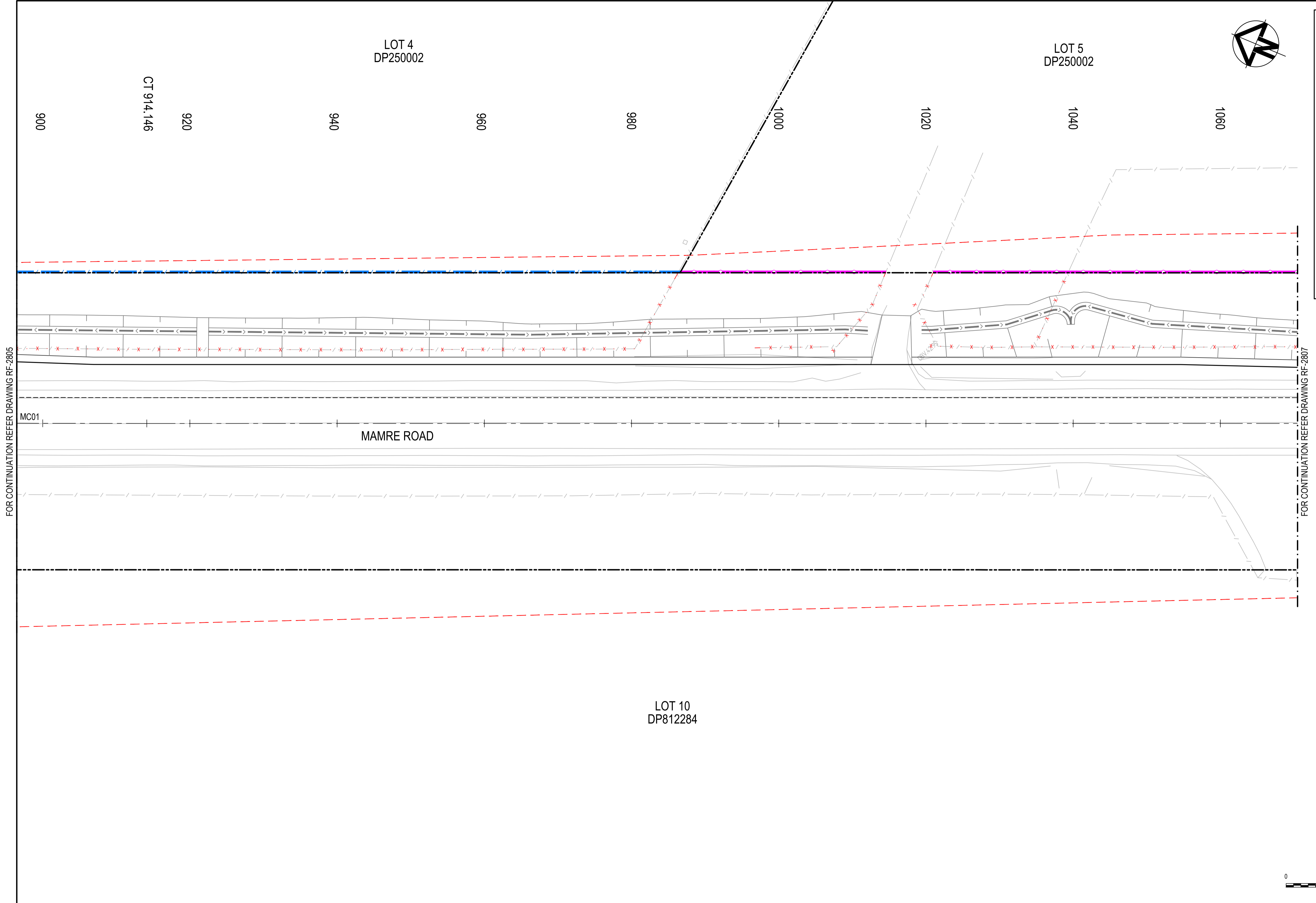
Client	
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Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE PLAN SHEET 5

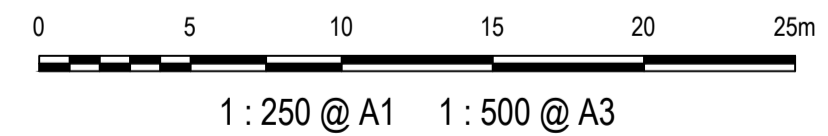
Civil Engineers and Project Managers	
 Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RF-2705
Issue	1



ROADWORKS FURNITURE LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SETOUT ONSITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	

FOR CONTINUATION REFER DRAWING RF-2805

FOR CONTINUATION REFER DRAWING RF-2807



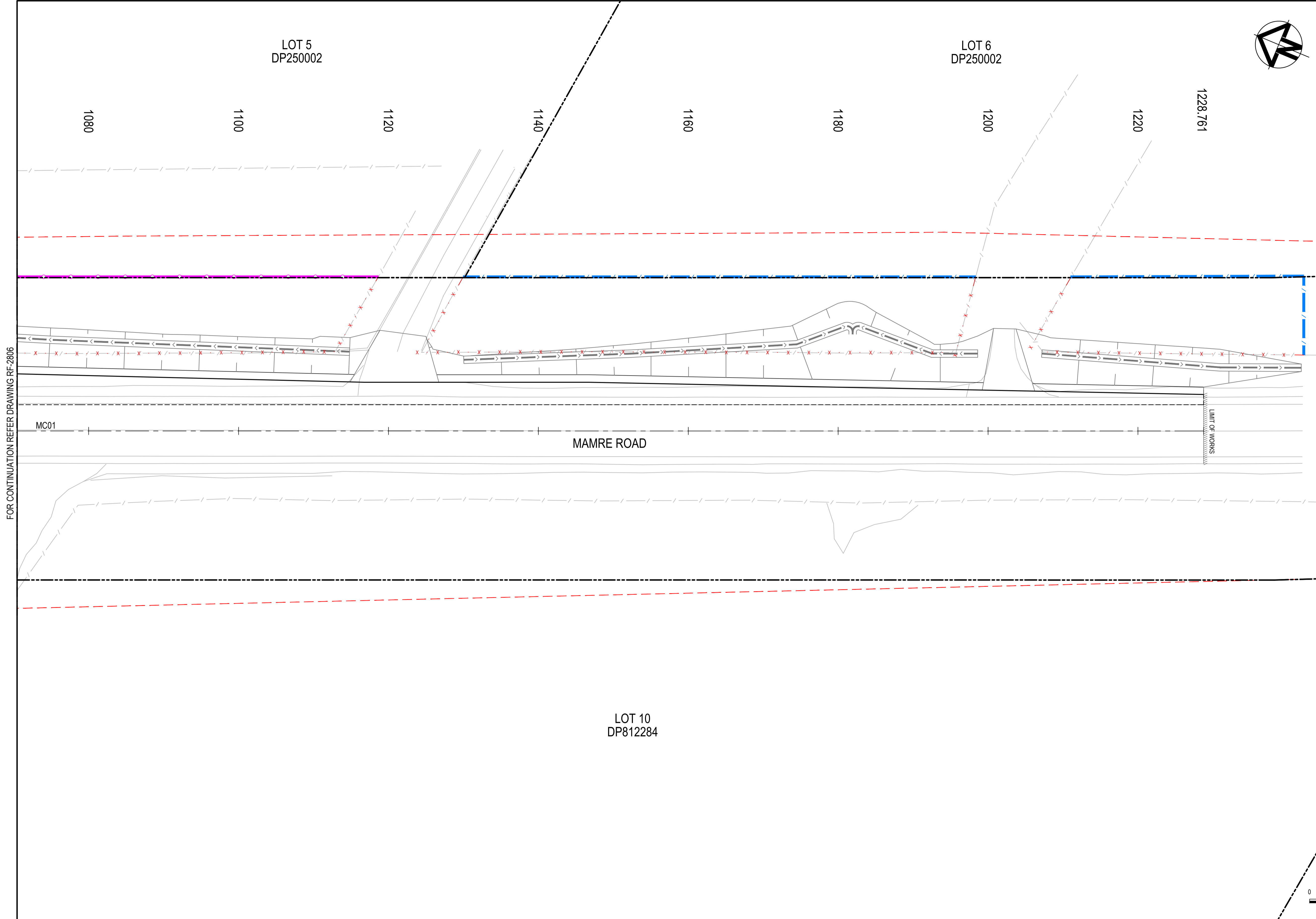
Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TNSW REGISTRATION No.	DS2000/000000	Approved	

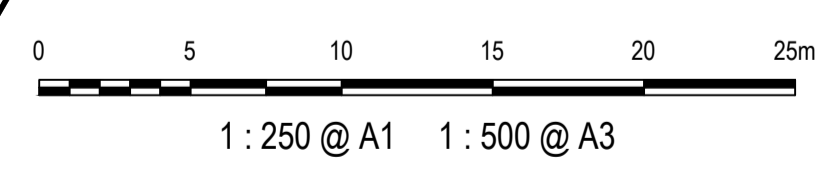
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE PLAN SHEET 6

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RF-2706
Issue	1



ROADWORKS FURNITURE LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
EXISTING FENCE TO BE REMOVED	
FENCE TYPE 1 WIRE FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
FENCE TYPE 2 POST AND RAIL FENCE. REFER DRAWING RF-2710 FOR DETAILS.	
BARRIER TYPE 1 TNSW ACCEPTED TRAFFIC BARRIER WITH ET-SS END TERMINALS. POST LOCATIONS TO BE SETOUT ONSITE AND BE COORDINATED WITH DRAINAGE AND UTILITIES INFRASTRUCTURE	

FOR CONTINUATION REFER DRAWING RF-2806



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
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Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TNSW REGISTRATION No.	DS2000/000000		

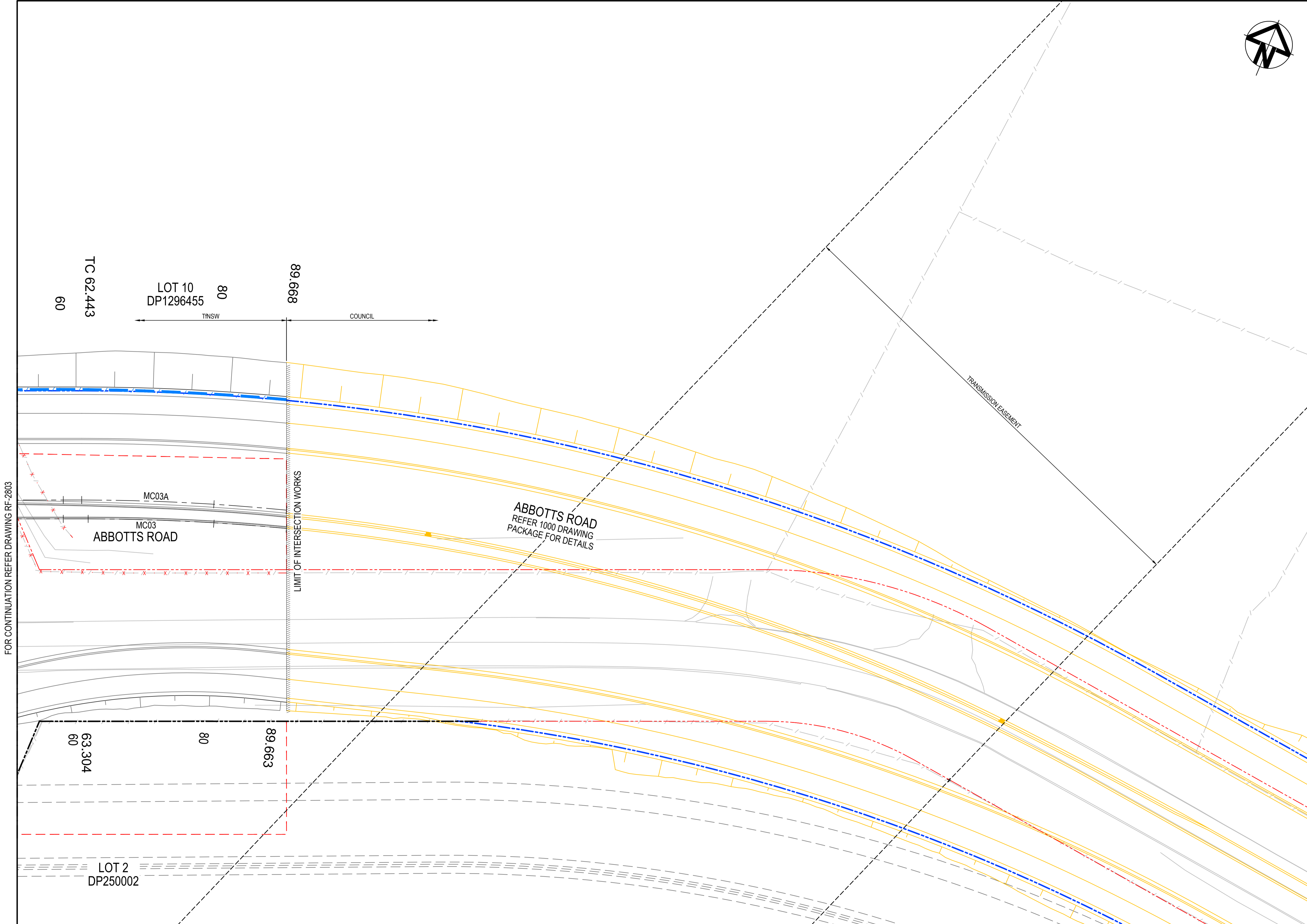
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE PLAN SHEET 7

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 APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	RF-2707
Issue	1

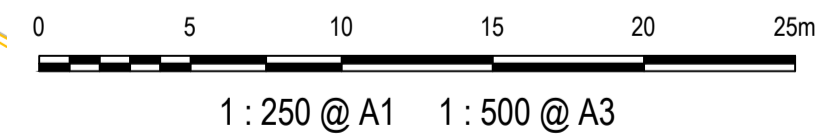


**ROADWORKS
FURNITURE LEGEND**

- EXISTING BOUNDARY
- EXISTING BOUNDARY TO BE REMOVED
- EXISTING EASEMENT
- PROPOSED BOUNDARY
- SP2 BOUNDARY
- EXISTING FENCE TO BE REMOVED
- FENCE TYPE 1
WIRE FENCE.
REFER DRAWING RF-2710
FOR DETAILS.
- FENCE TYPE 2
POST AND RAIL FENCE.
REFER DRAWING
RF-2710 FOR DETAILS.
- BARRIER TYPE 1
TNSW ACCEPTED TRAFFIC BARRIER
WITH ET-SS END TERMINALS.
POST LOCATIONS TO BE SETOUT
ONSITE AND BE COORDINATED WITH
DRAINAGE AND UTILITIES
INFRASTRUCTURE



FOR CONTINUATION REFER DRAWING RF-2803

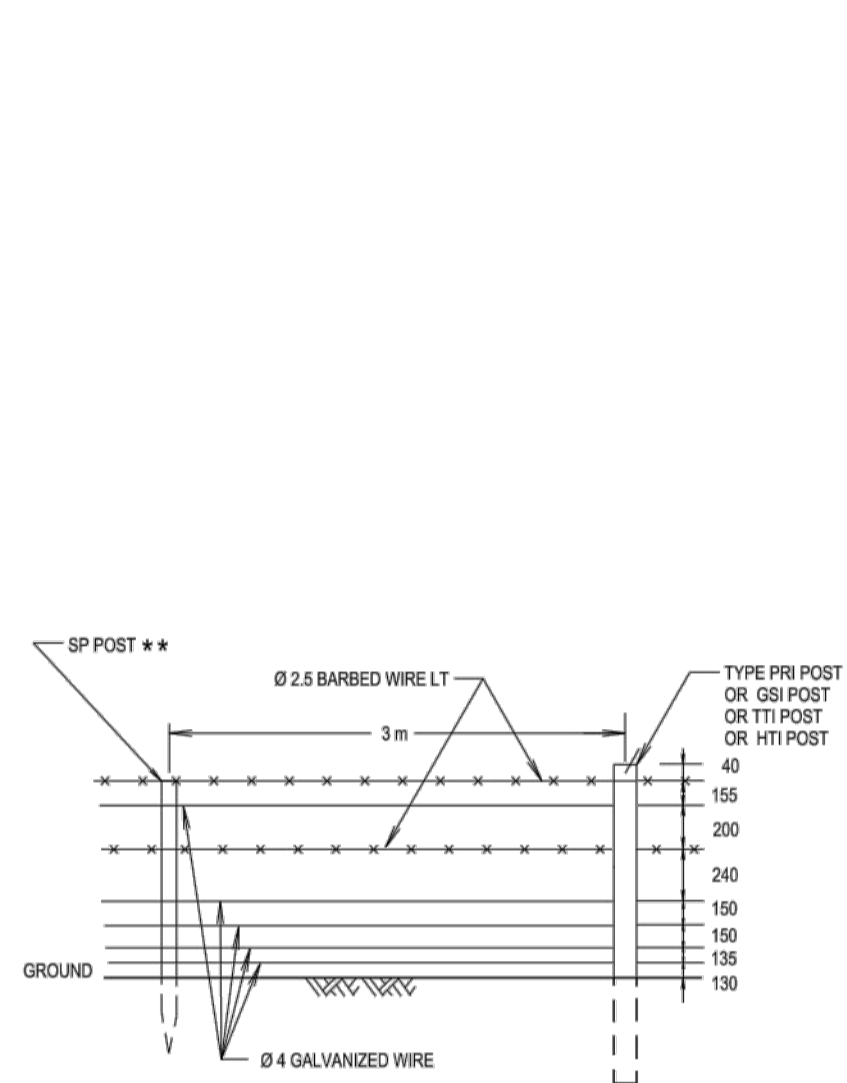


Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

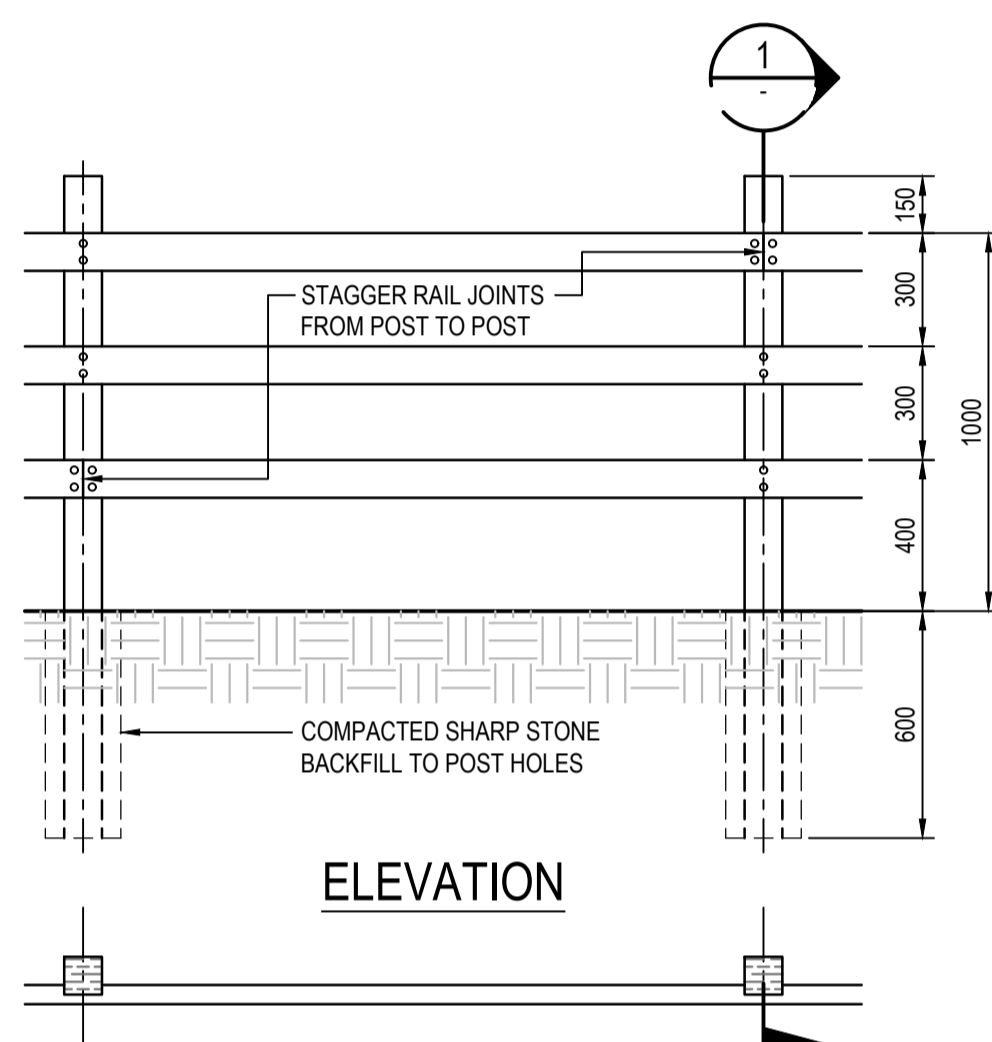
Client	
Scales	1 : 250 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

Drawn	GB
Designed	GB
Checked	AL
Approved	
Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	ROAD FURNITURE PLAN SHEET 8

Civil Engineers and Project Managers	
 <small>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</small>	
Status	FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	RF-2708
Issue	1

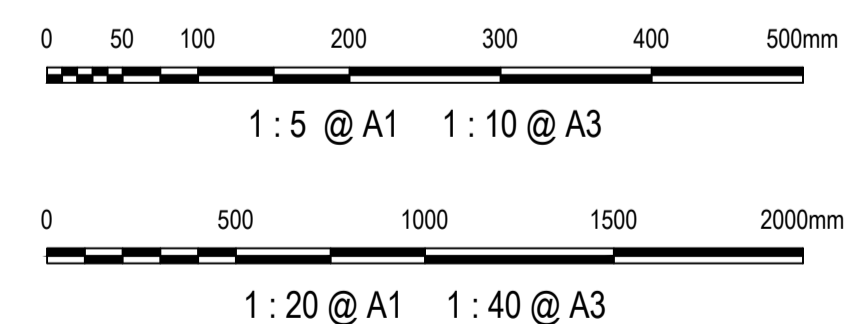
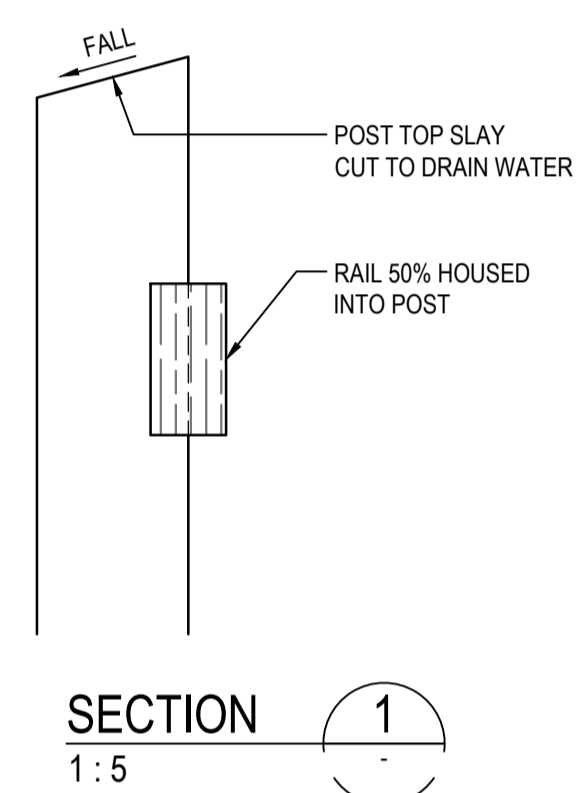


FENCE TYPE 1 - WIRE FENCE
TfNW MODEL R0800-02
NTS



FENCE TYPE 2 - POST AND RAIL FENCE
1 : 20

POSTS: 100 x 100
RAILS: 100 x 50
TIMBER: H4 - H5
TREATED HARDWOOD
FIXINGS: GALVANISED
STEEL
FINISH: SAWN



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	AS SHOWN	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

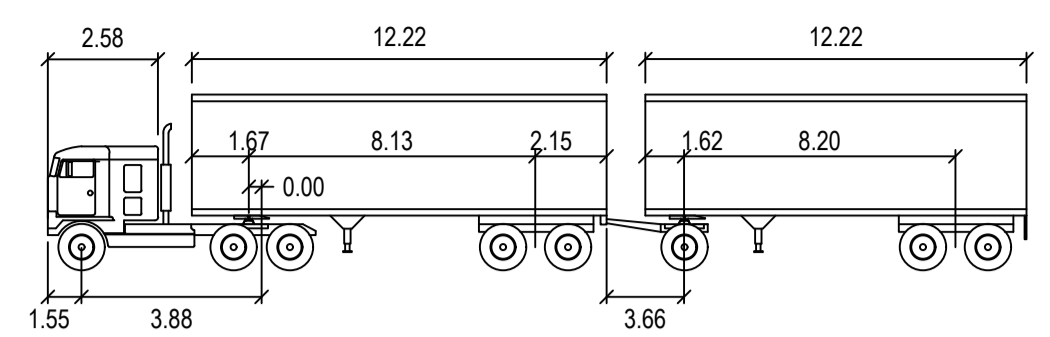
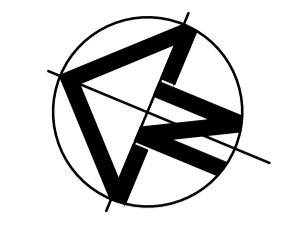
Title

ROAD FURNITURE DETAILS

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

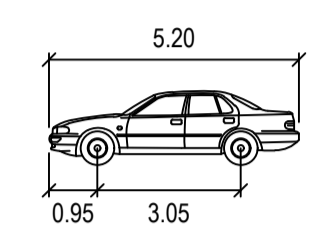
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	RF-2710	Issue
		1



30m A-DOUBLE PBS LEVEL 2B DESIGN VEHICLE

METERS

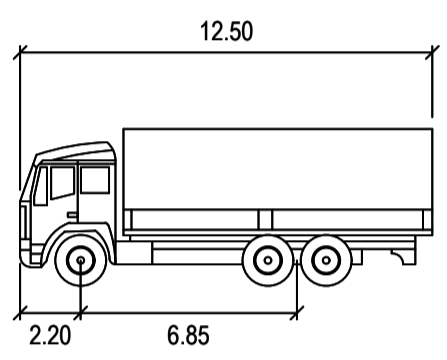
TRACTOR WIDTH : 2.50	LOCK TO LOCK TIME : 6.0
TRAILER WIDTH : 2.50	STEERING ANGLE : 23.4
TRACTOR TRACK : 2.50	ARTICULATING ANGLE : 70.0
TRAILER TRACK : 2.50	



PASSENGER-CAR

meters

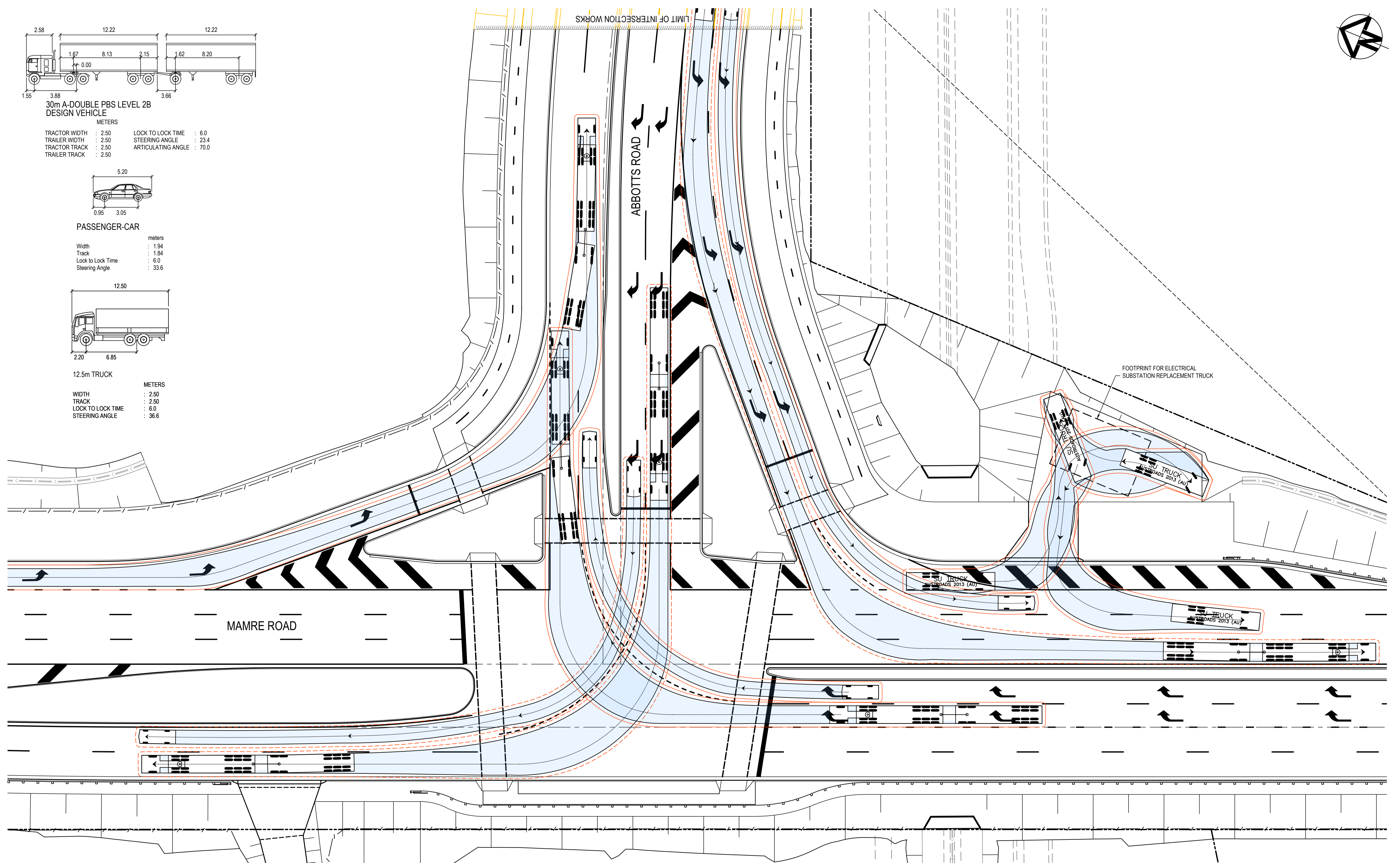
Width : 1.94
Track : 1.84
Lock to Lock Time : 6.0
Steering Angle : 33.6



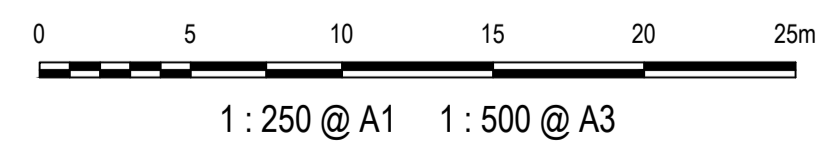
12.5m TRUCK

METERS

WIDTH : 2.50
TRACK : 2.50
LOCK TO LOCK TIME : 6.0
STEERING ANGLE : 36.6



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23



Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TFNSW REGISTRATION No.	DS2000/000000	Approved	

Project

MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

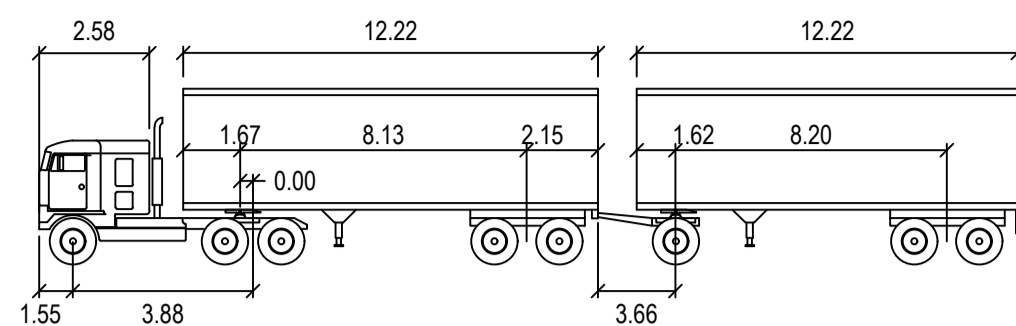
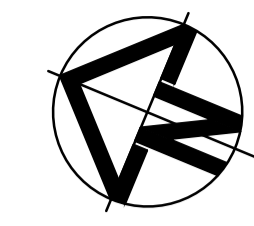
Title

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

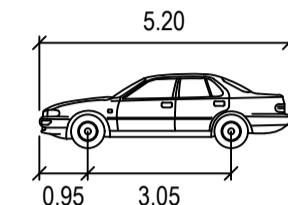
Status	FOR APPROVAL	A1
	NOT TO BE USED FOR CONSTRUCTION	Issue
Project - Drawing No.	MS-2801	1



30m A-DOUBLE PBS LEVEL 2B
DESIGN VEHICLE

METERS

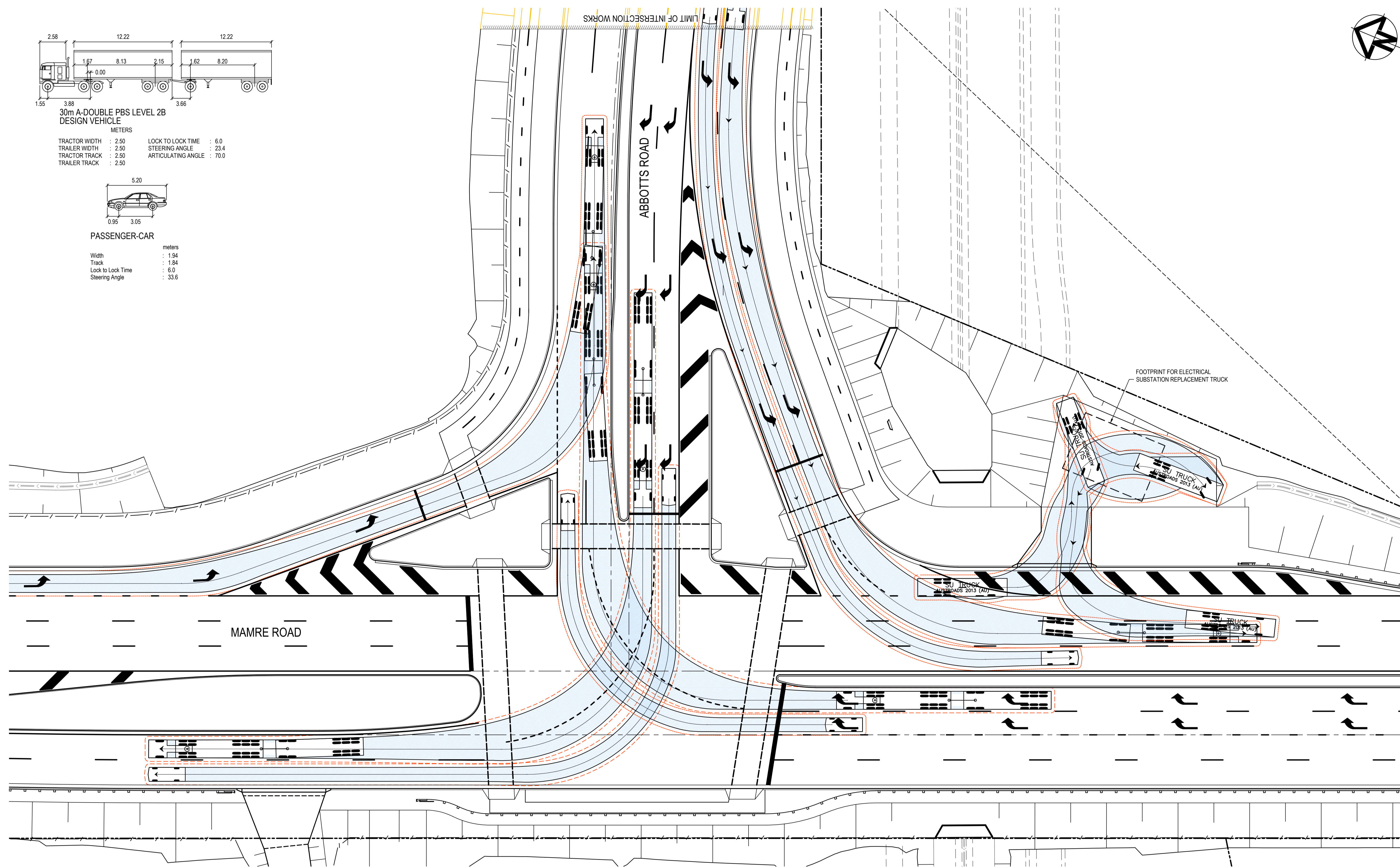
TRACTOR WIDTH	: 2.50	LOCK TO LOCK TIME	: 6.0
TRAILER WIDTH	: 2.50	STEERING ANGLE	: 23.4
TRACTOR TRACK	: 2.50	ARTICULATING ANGLE	: 70.0
TRAILER TRACK	: 2.50		



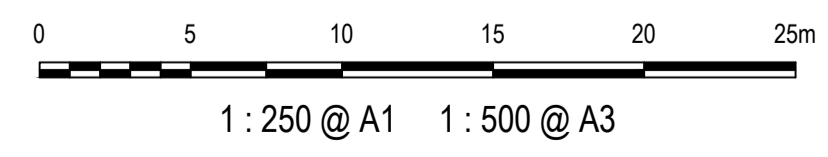
PASSENGER-CAR

meters

Width	: 1.94
Track	: 1.84
Lock to Lock Time	: 6.0
Steering Angle	: 33.6



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23



Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

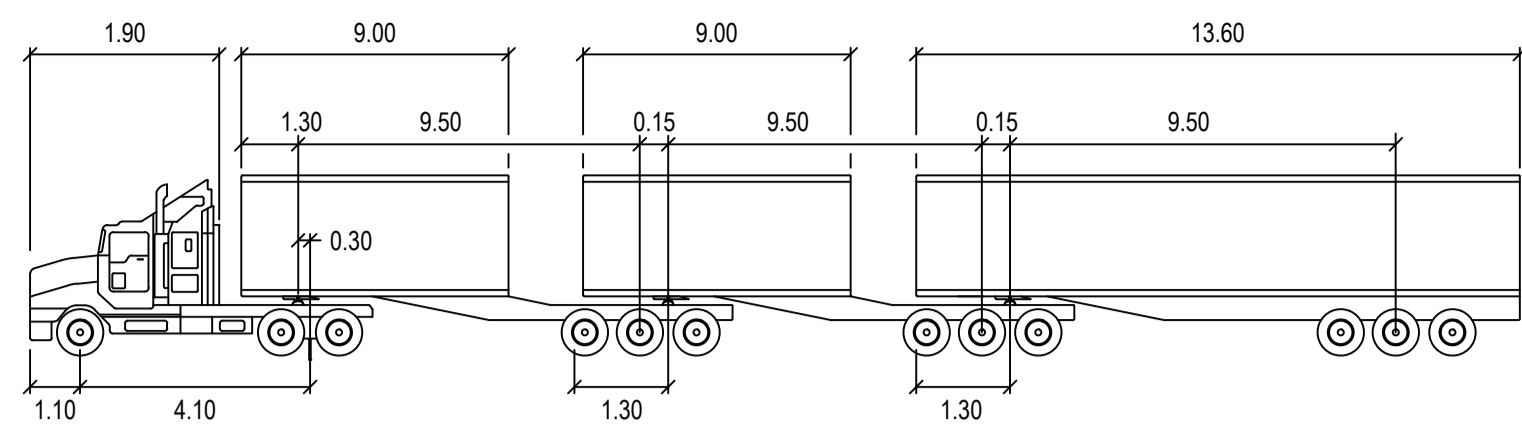
Project
**MR536 MAMRE ROAD & ABBOTT'S ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**VEHICLE TURN PATH
PLAN
SHEET 2**

Civil Engineers and Project Managers

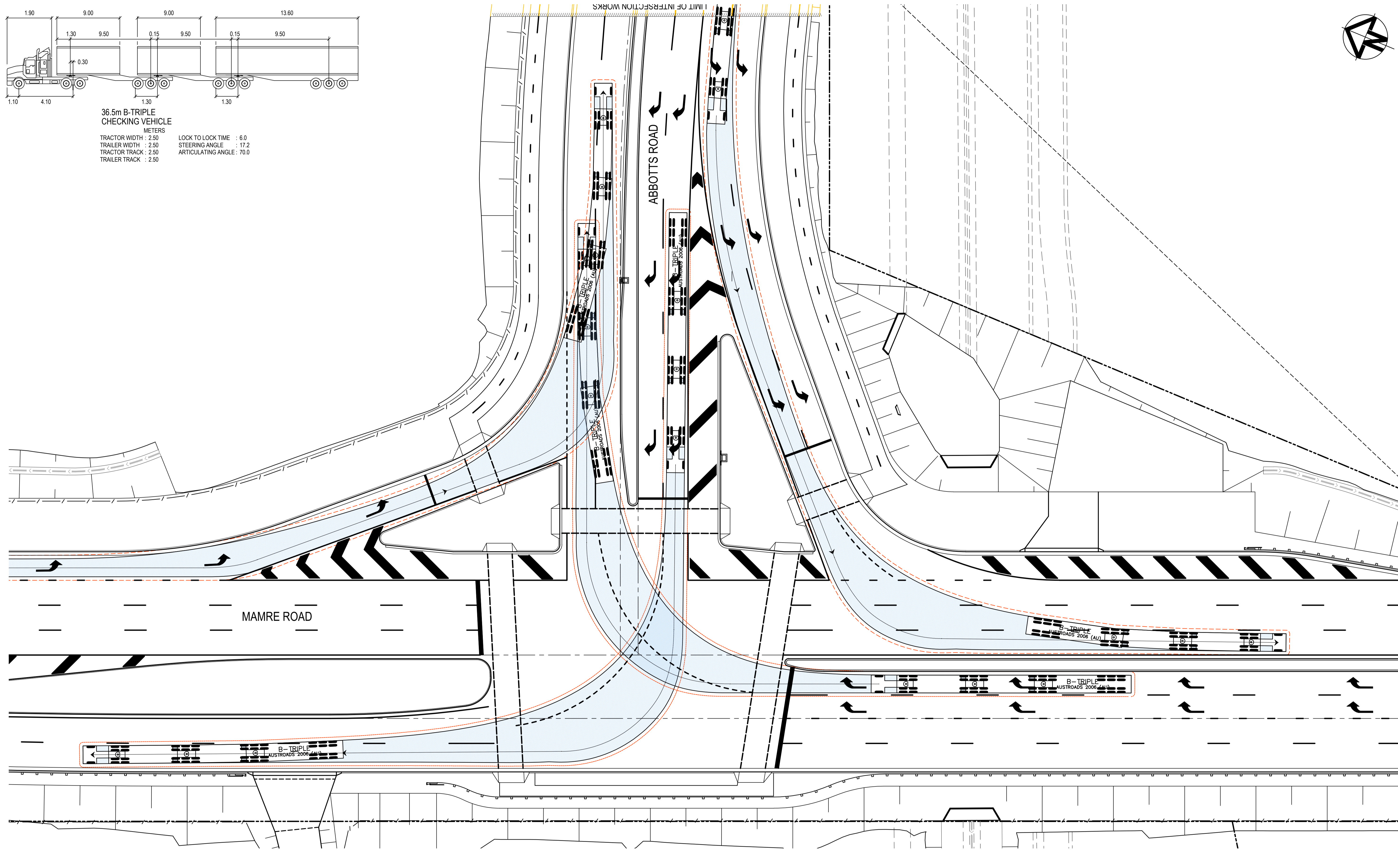
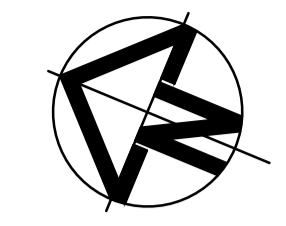
Level 7, 153 Walker Street
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	MS-2802	Issue
		1

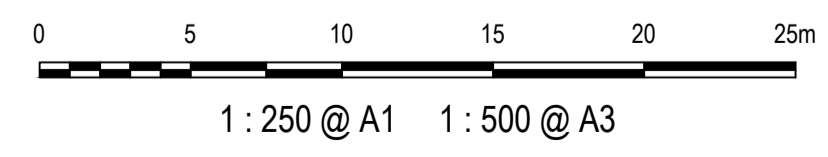


36.5m B-TRIPLE CHECKING VEHICLE

METERS
 TRACTOR WIDTH : 2.50
 TRAILER WIDTH : 2.50
 TRACTOR TRACK : 2.50
 TRAILER TRACK : 2.50
 LOCK TO LOCK TIME : 6.0
 STEERING ANGLE : 17.2
 ARTICULATING ANGLE : 70.0



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23



Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TFNSW REGISTRATION No.	DS2000/000000	Approved	

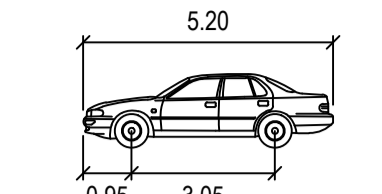
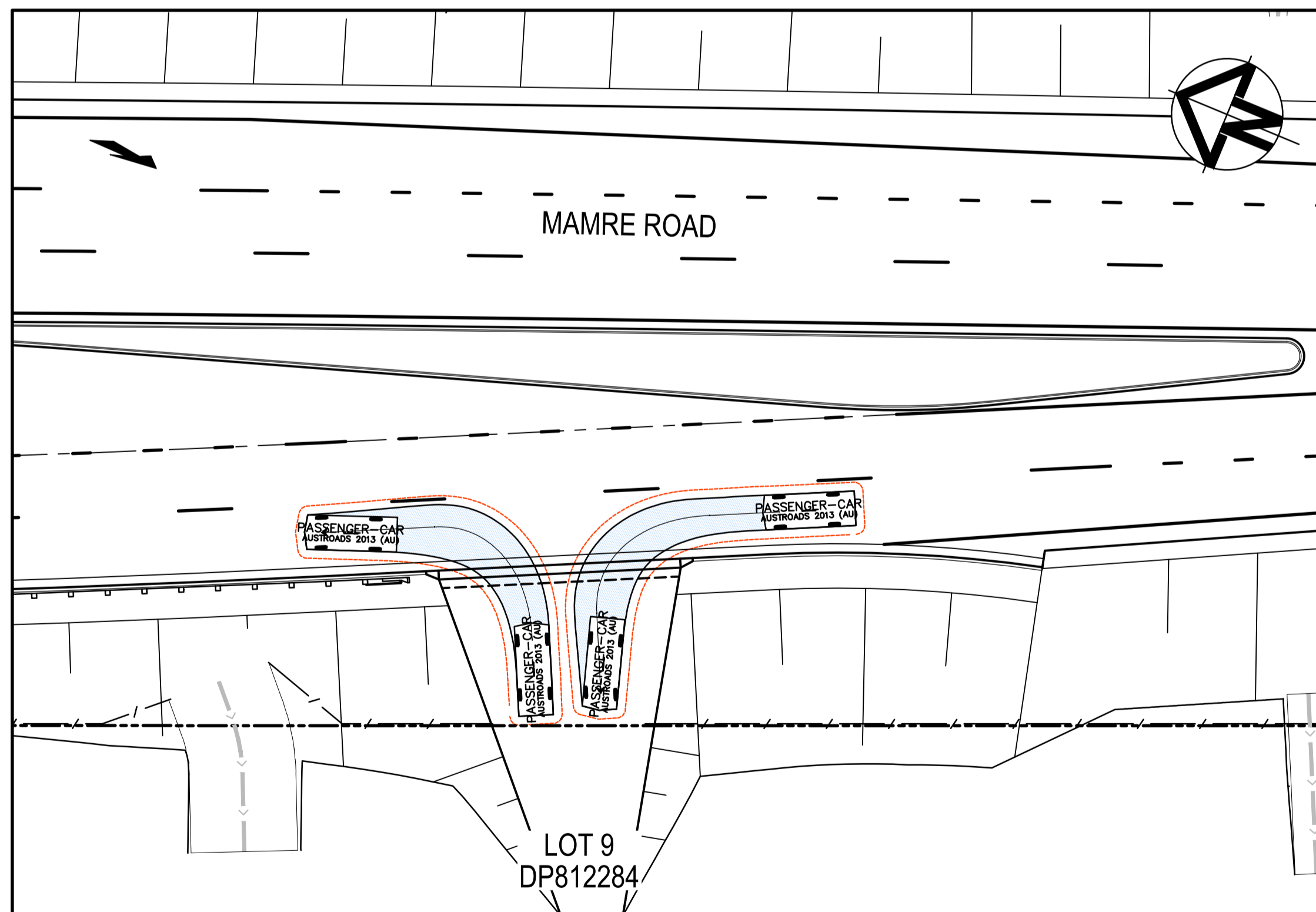
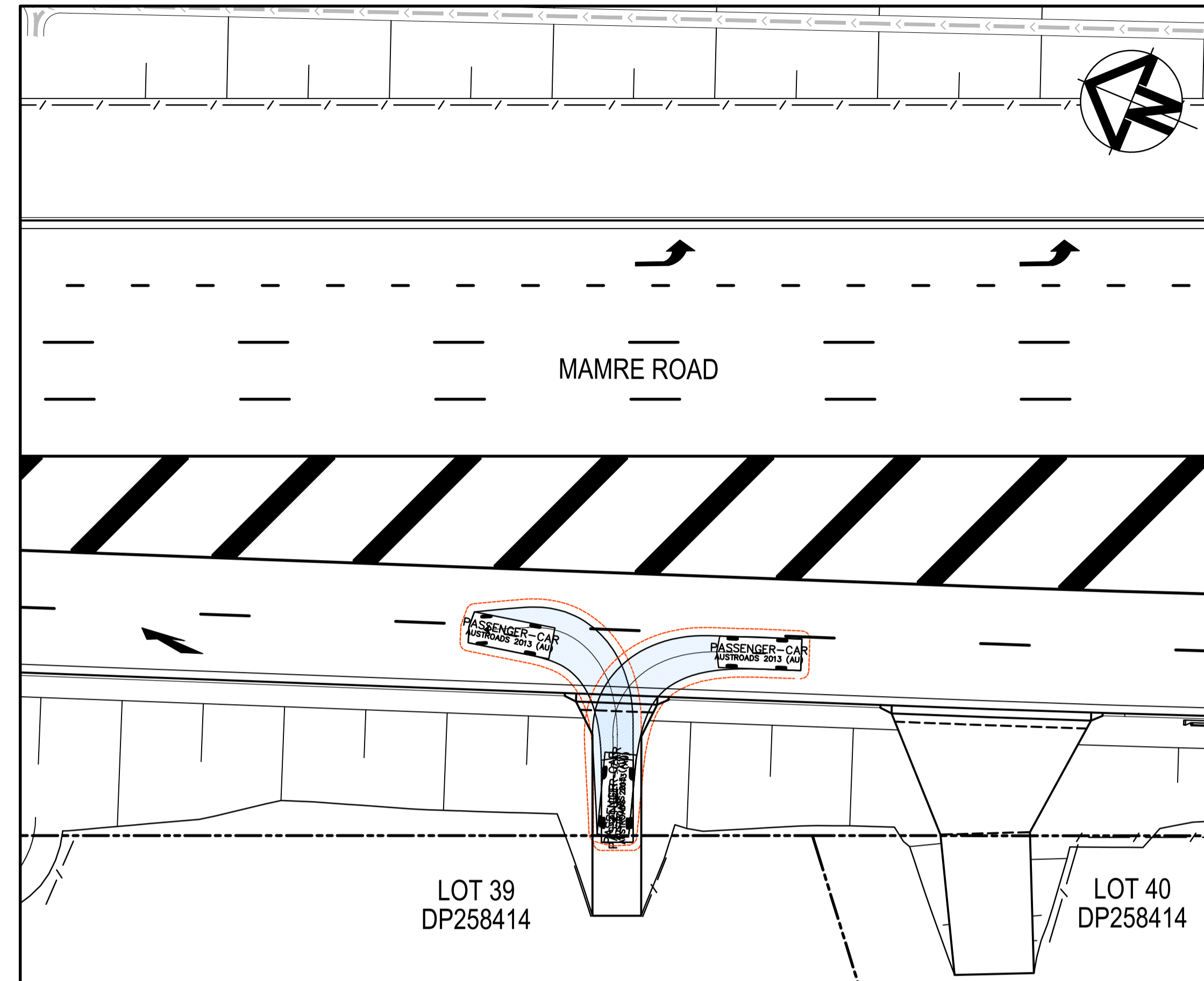
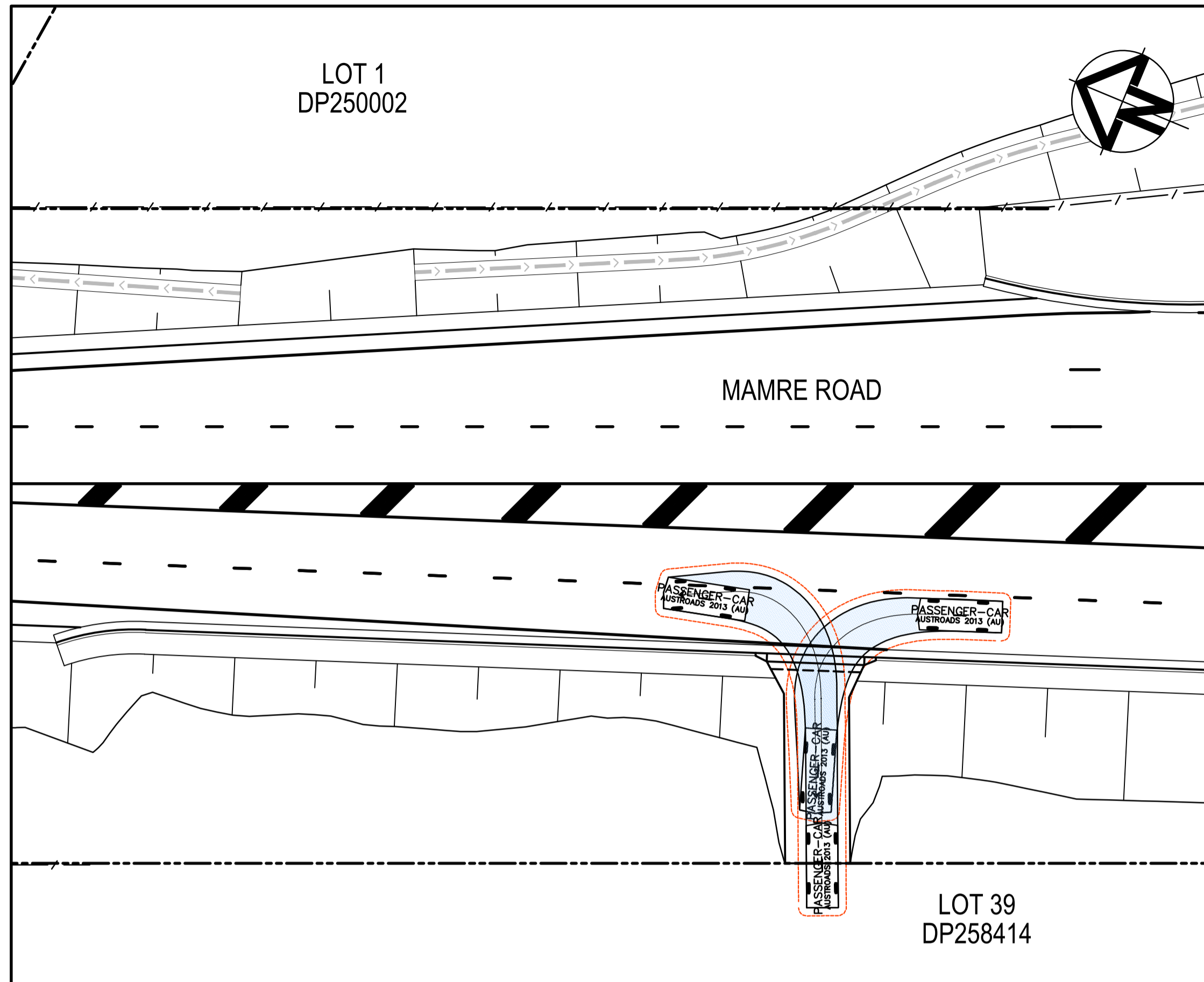
Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
VEHICLE TURN PATH PLAN SHEET 3

Civil Engineers and Project Managers

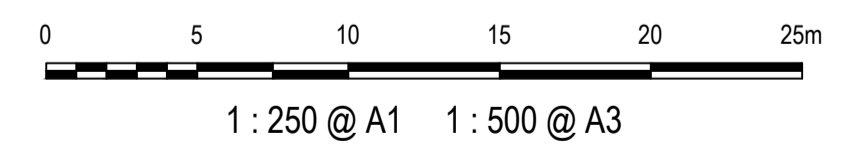
Level 7, 153 Walker Street
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 www.atl.net.au
 info@atl.net.au

Status	FOR APPROVAL	A1
	NOT TO BE USED FOR CONSTRUCTION	Issue
Project - Drawing No.	MS-2803	1



PASSENGER-CAR
DESIGN VEHICLE

WIDTH	: 1.94	METERS
TRACK	: 1.84	
LOCK TO LOCK TIME	: 6.0	
STEERING ANGLE	: 33.6	



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

Project

**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

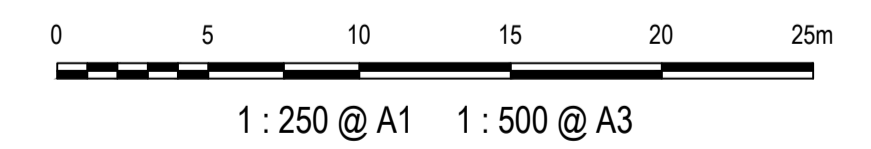
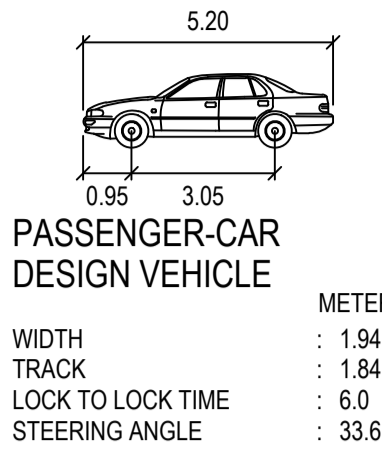
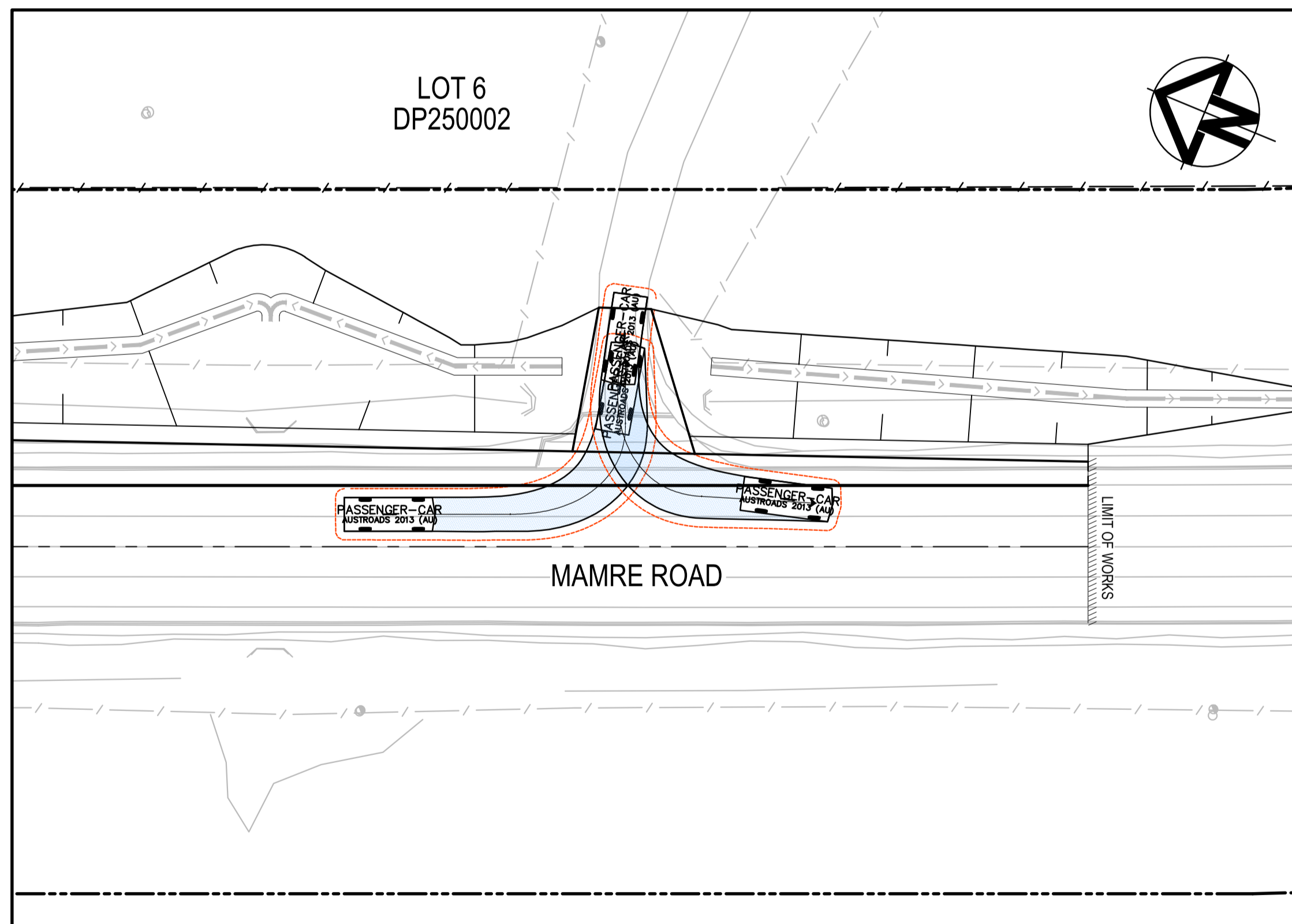
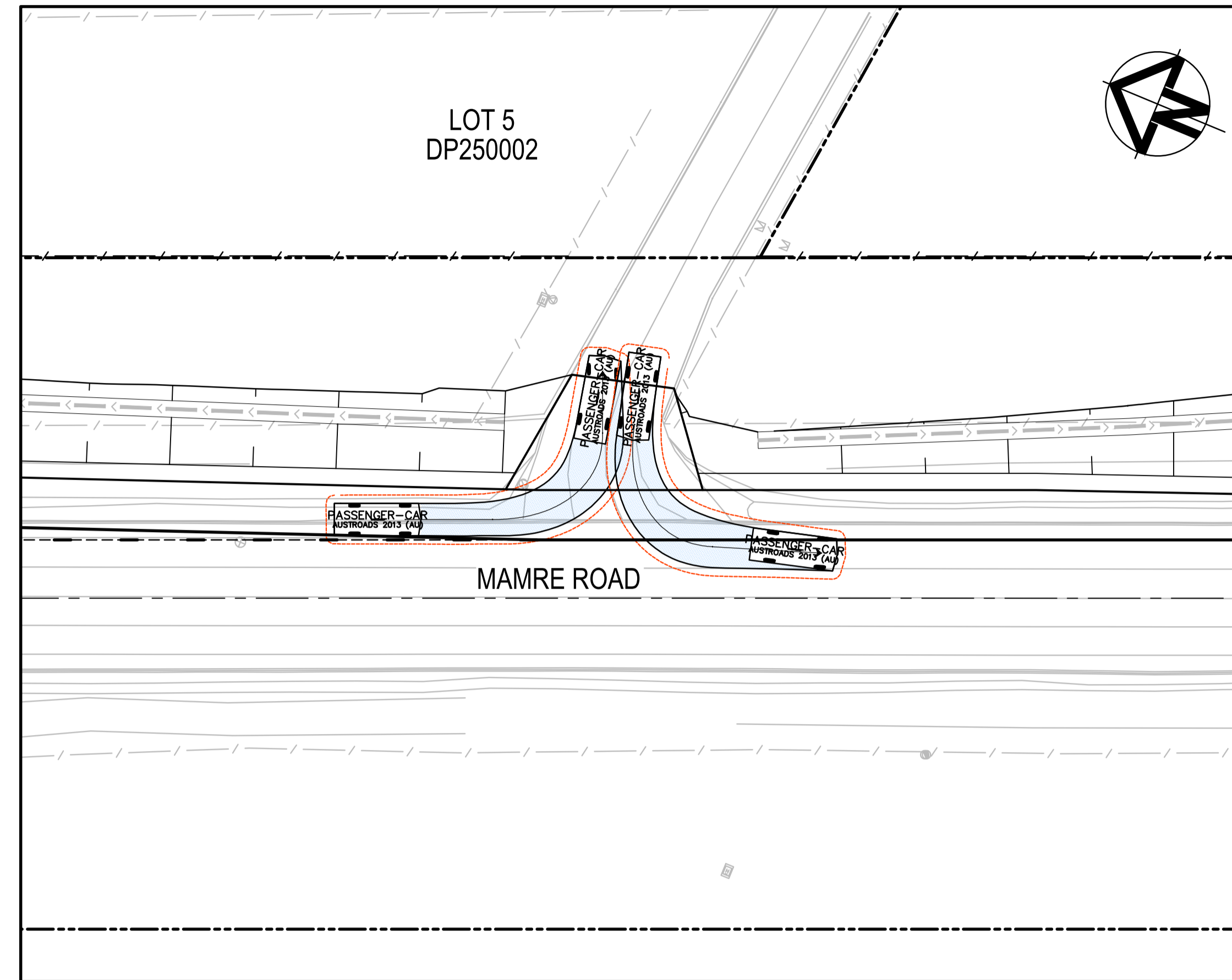
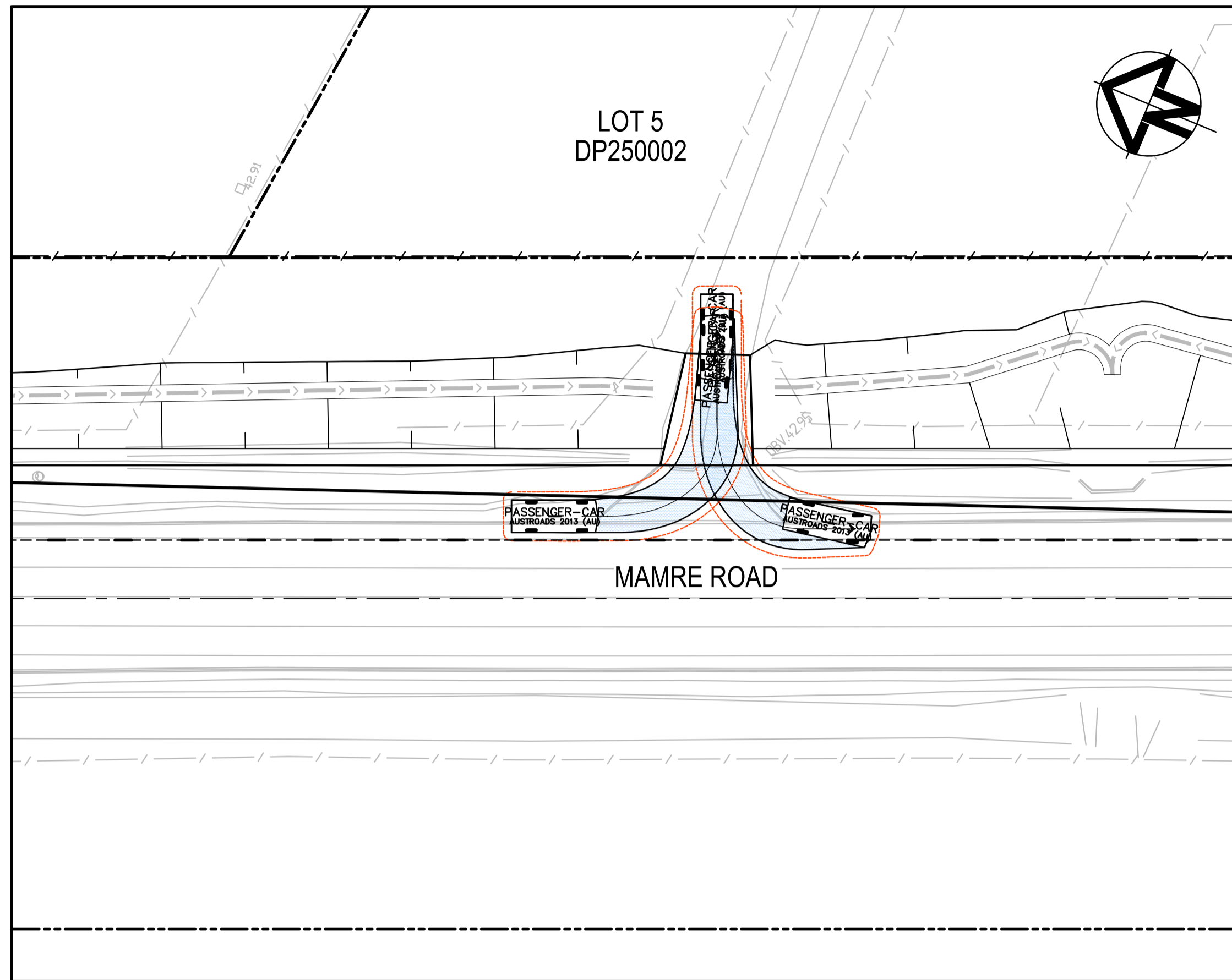
Title

**VEHICLE TURN PATH
PLAN
SHEET 4**

Civil Engineers and Project Managers

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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	MS-2804	Issue
		1



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TfNSW REGISTRATION No.	DS2000/000000	Approved	

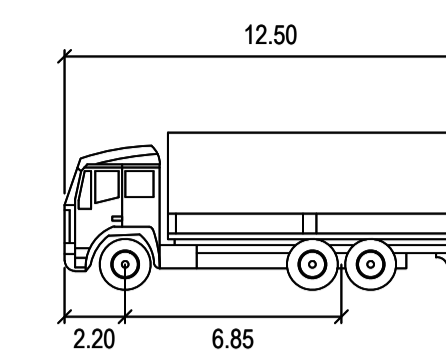
Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**VEHICLE TURN PATH
PLAN
SHEET 5**

Civil Engineers and Project Managers

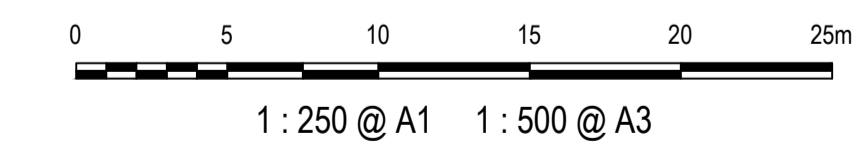
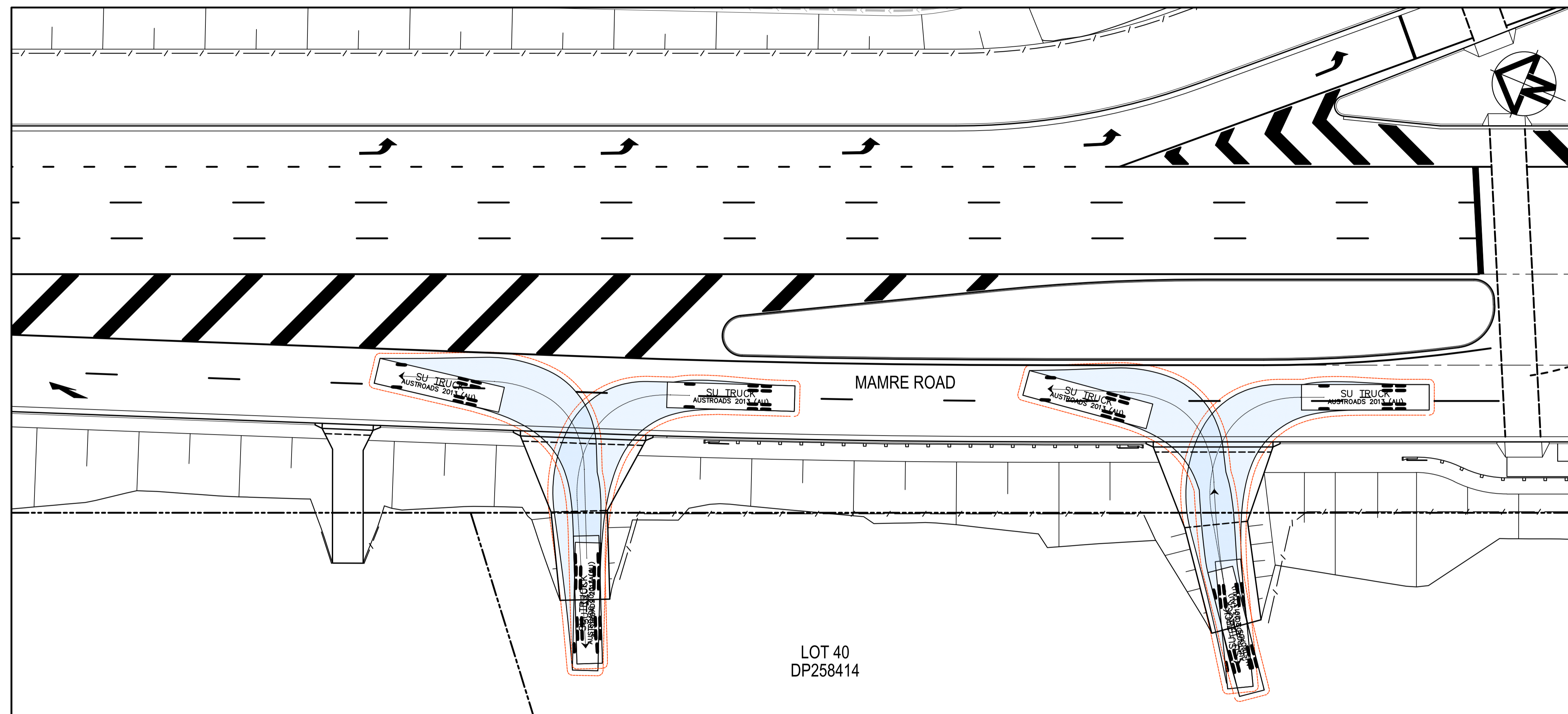
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.at.net.au
info@at.net.au

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	MS-2805	Issue
		1



12.5m TRUCK
DESIGN VEHICLE

	METERS
WIDTH	: 2.50
TRACK	: 2.50
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 36.6



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 250 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TfNSW REGISTRATION No.		DS2000/000000	

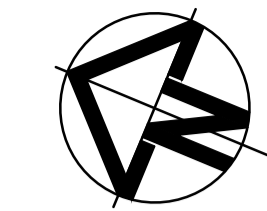
Project
**MR536 MAMRE ROAD & ABBOTTS ROAD
PROPOSED SIGNALISED
INTERSECTION**

Title
**VEHICLE TURN PATH
PLAN
SHEET 6**

Civil Engineers and Project Managers

Level 7, 153 Walker Street
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	MS-2806	Issue
		1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
AREA INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
SAFETY BARRIERS INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
AREA EXCLUDED WITHIN TNSW MAINTENANCE SERVICES - TO BE MAINTAINED BY COUNCIL	
TRAFFIC CONTROL INFRASTRUCTURE INCLUDED WITHIN TNSW MAINTENANCE SERVICES AS PER TNSW SPECIFICATION INCLUDING PAVEMENT MARKING, KERBS, MEDIANS AND KERB RAMPS	

LOT 8
DP253503

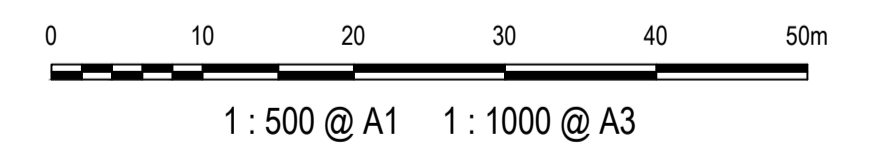
LOT 10
DP1296455

LOT 38
DP258414

LOT 39
DP258414

MAMRE ROAD

FOR CONTINUATION REFER DRAWING 21-843-MS-C2802



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 500 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TNSW REGISTRATION No.	DS2000/000000	Approved	

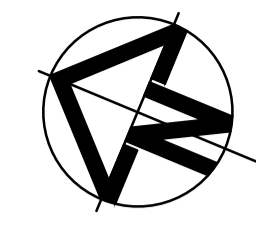
Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
MAINTENANCE PLAN SHEET 1

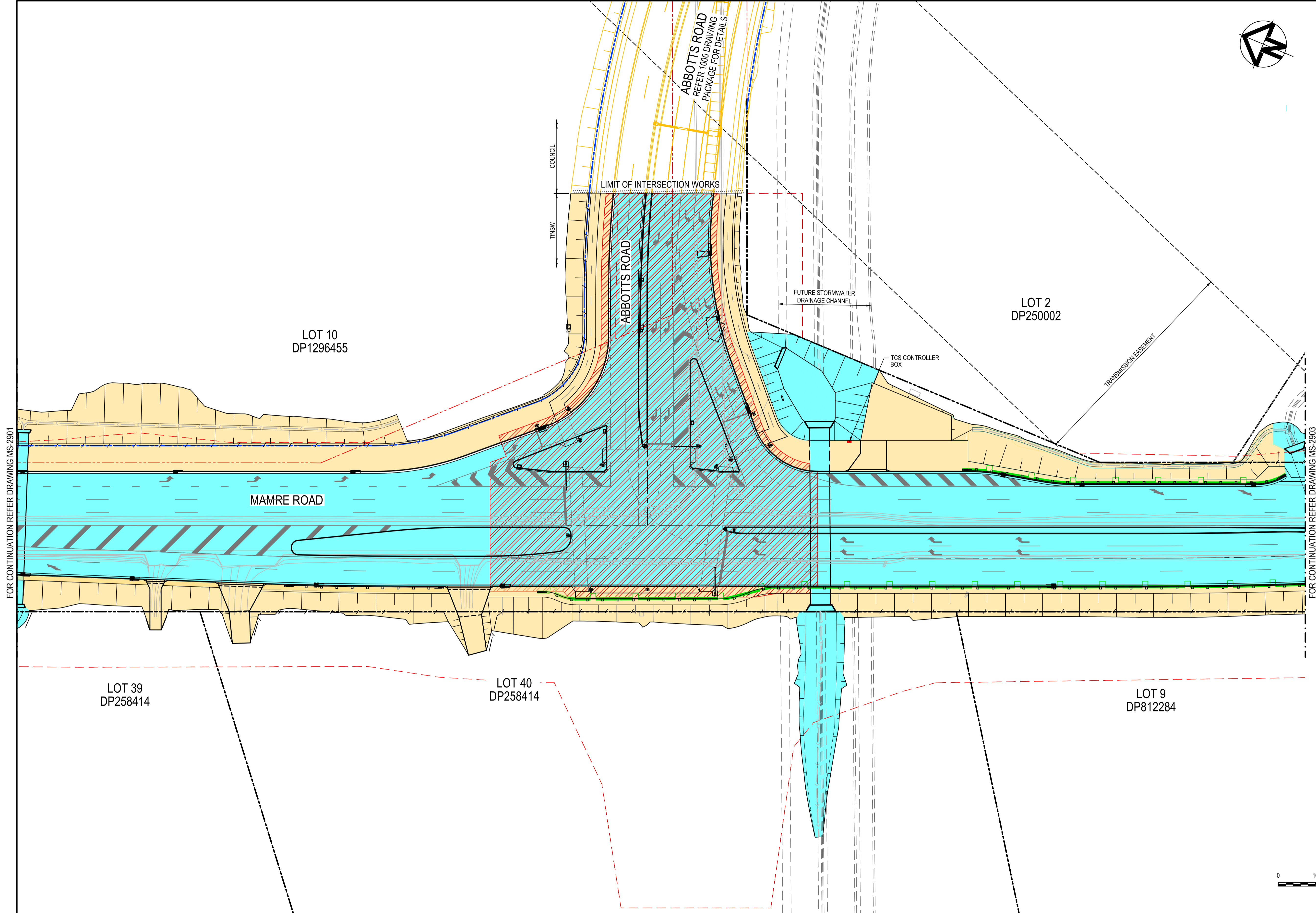
Civil Engineers and Project Managers

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 APPROVAL	A1
	NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	MS-2901	Issue
		1

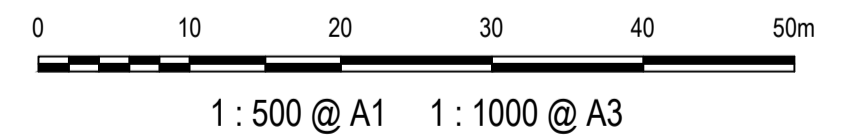


LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
AREA INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
SAFETY BARRIERS INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
AREA EXCLUDED WITHIN TNSW MAINTENANCE SERVICES - TO BE MAINTAINED BY COUNCIL	
TRAFFIC CONTROL INFRASTRUCTURE INCLUDED WITHIN TNSW MAINTENANCE SERVICES AS PER TNSW SPECIFICATION INCLUDING PAVEMENT MARKING, KERBS, MEDIANS AND KERB RAMPS	



FOR CONTINUATION REFER DRAWING MS-2901

FOR CONTINUATION REFER DRAWING MS-2903



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

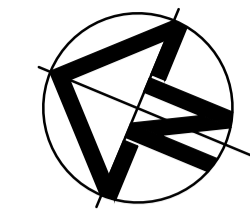
Client	
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Scales	1 : 500 @ A1
Grid	GDA2020
Height Datum	AHD
TNSW REGISTRATION No.	DS2000/000000

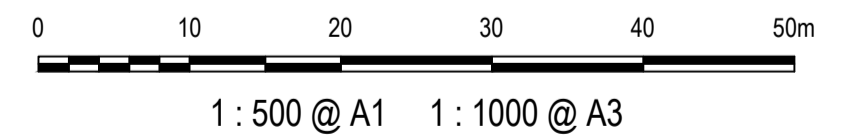
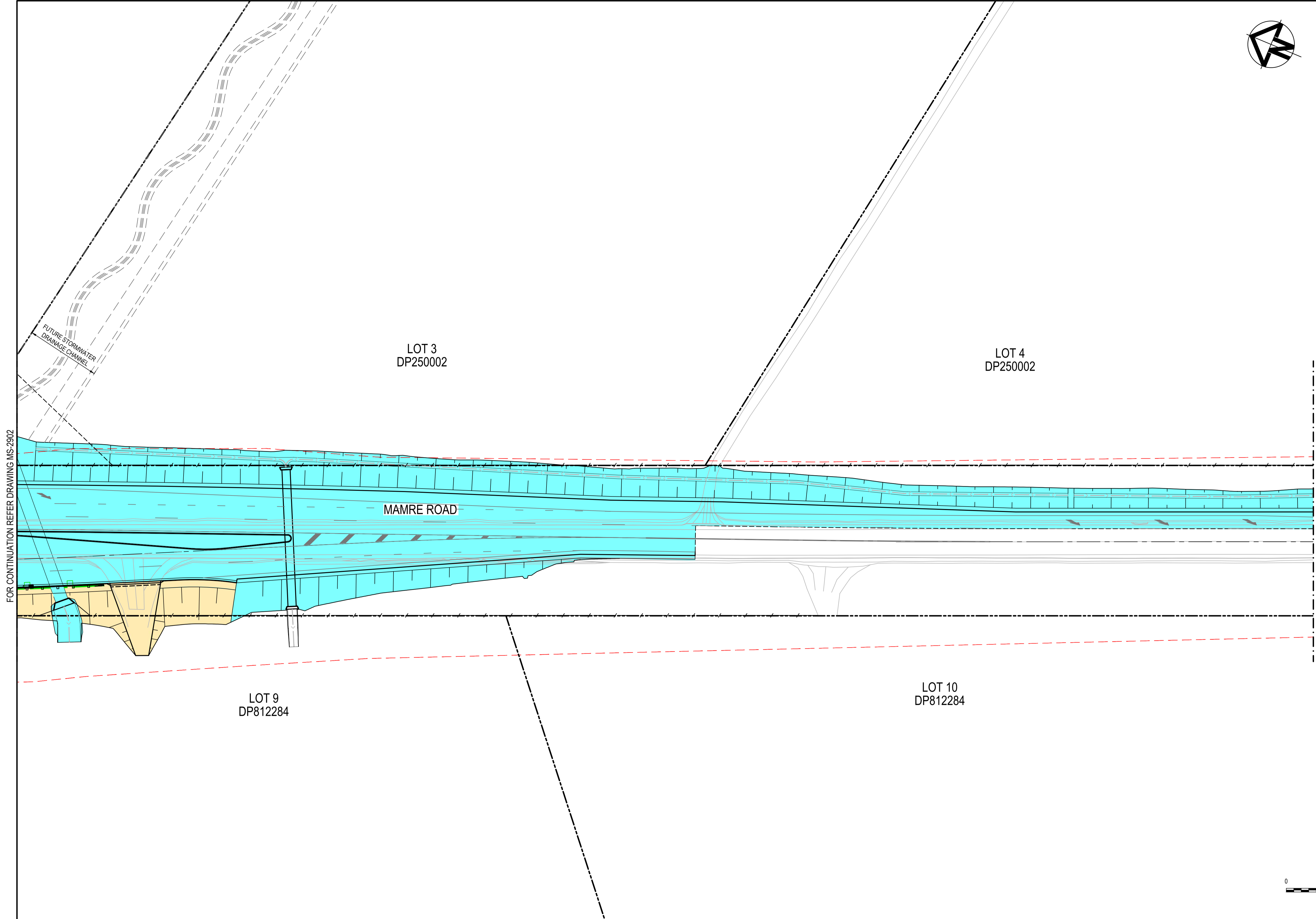
Drawn	GB
Designed	GB
Checked	AL
Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	MAINTENANCE 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 APPROVAL
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	MS-2902
Issue	1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
AREA INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
SAFETY BARRIERS INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
AREA EXCLUDED WITHIN TNSW MAINTENANCE SERVICES - TO BE MAINTAINED BY COUNCIL	
TRAFFIC CONTROL INFRASTRUCTURE INCLUDED WITHIN TNSW MAINTENANCE SERVICES AS PER TNSW SPECIFICATION INCLUDING PAVEMENT MARKING, KERBS, MEDIANS AND KERB RAMPS	



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client

Scales	1 : 500 @ A1	Drawn	GB
		Designed	GB
Grid	GDA2020	Checked	AL
Height Datum	AHD	Approved	
TNSW REGISTRATION No.	DS2000/000000		

Project
MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION

Title
MAINTENANCE PLAN SHEET 3

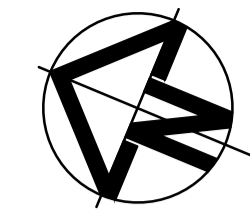
Civil Engineers and Project Managers

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 www.atl.net.au
 info@atl.net.au

Status
FOR APPROVAL
 NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.
MS-2903

Issue
1



LEGEND	
EXISTING BOUNDARY	
EXISTING BOUNDARY TO BE REMOVED	
EXISTING EASEMENT	
PROPOSED BOUNDARY	
SP2 BOUNDARY	
AREA INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
SAFETY BARRIERS INCLUDED WITHIN TNSW MAINTENANCE SERVICES	
AREA EXCLUDED WITHIN TNSW MAINTENANCE SERVICES - TO BE MAINTAINED BY COUNCIL	
TRAFFIC CONTROL INFRASTRUCTURE INCLUDED WITHIN TNSW MAINTENANCE SERVICES AS PER TNSW SPECIFICATION INCLUDING PAVEMENT MARKING, KERBS, MEDIANS AND KERB RAMPS	

LOT 5
DP250002

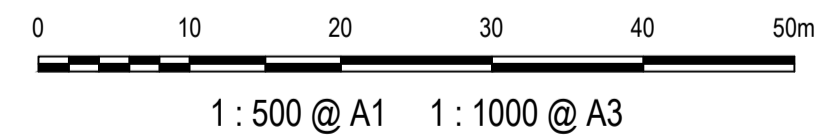
LOT 6
DP250002

LOT 10
DP812284

MAMRE ROAD

LIMIT OF WORKS

FOR CONTINUATION REFER DRAWING MS-2903



Issue	Description	Date
1	ISSUED FOR 80% DESIGN	03-11-23

Client	
--------	------

Scales	1 : 500 @ A1	Drawn	GB
Grid	GDA2020	Designed	GB
Height Datum	AHD	Checked	AL
TNSW REGISTRATION No.	DS2000/000000	Approved	

Project	MR536 MAMRE ROAD & ABBOTTS ROAD PROPOSED SIGNALISED INTERSECTION
Title	MAINTENANCE PLAN SHEET 4

Civil Engineers and Project Managers	<p>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</p>
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Project - Drawing No.	MS-2904
Issue	1