PENRITH CITY COUNCIL
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent

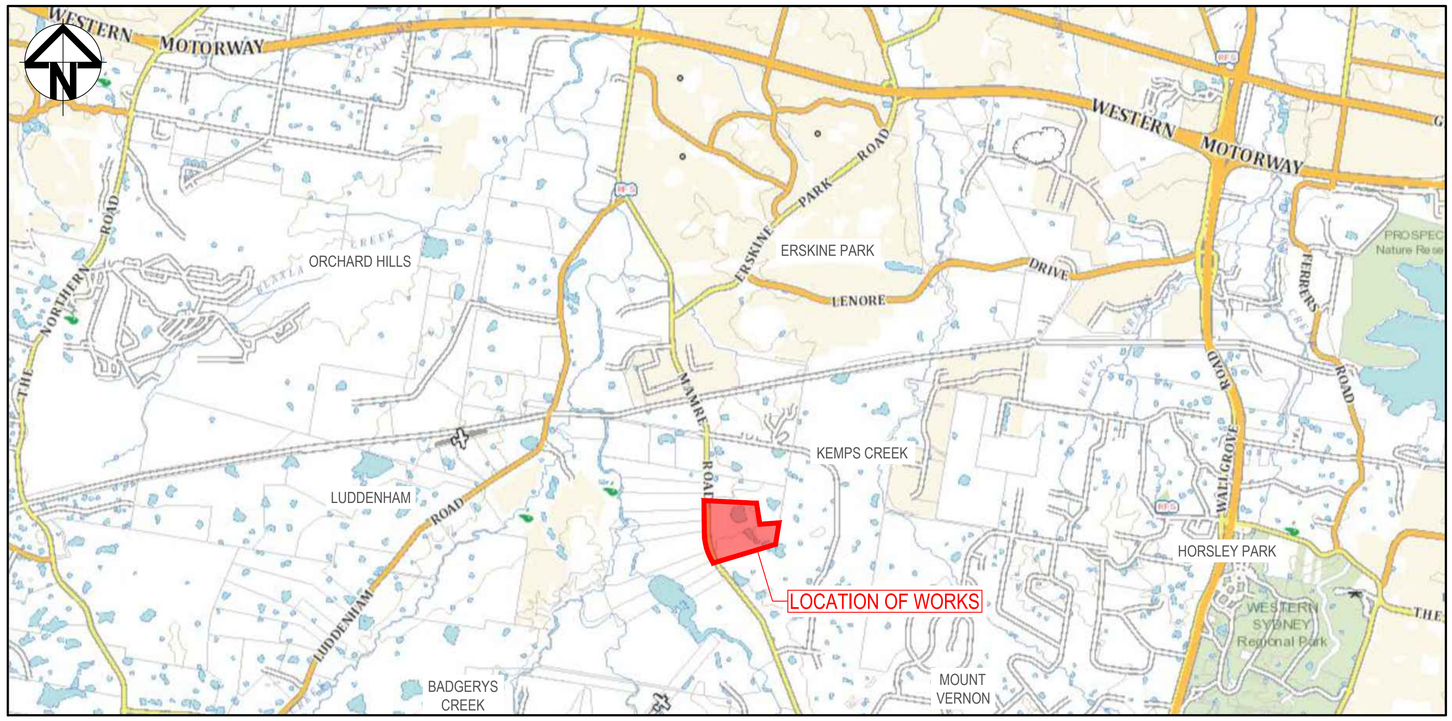
ASPECT INDUSTRIAL ESTATE

STAGE 1A CIVIL WORKS PACKAGE

SUBDIVISION WORKS CERTIFICATE

788-882 MAMRE ROAD, KEMPS CREEK

SSD-10448



LOCALITY PLAN
NOT TO SCALE

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

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

100mm on Original

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Client: mirvac

Scales
Grid MGA2020
Height Datum AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
COVER SHEET AND LOCALITY PLAN

Civil Engineers and Project Managers
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Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7000
Issue: 1

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DRAWING LIST

DRAWING No.	DRAWING TITLE
18-596-C7000	COVER SHEET AND LOCALITY PLAN
18-596-C7001	DRAWING LIST
18-596-C7002	NOTES AND LEGENDS SHEET SHEET 1
18-596-C7003	NOTES AND LEGENDS SHEET SHEET 2
18-596-C7005	GENERAL ARRANGEMENT PLAN
18-596-C7010	TYPICAL SECTIONS
18-596-C7012	TYPICAL ROAD SECTIONS
18-596-C7015	TYPICAL DETAILS SHEET 1
18-596-C7016	TYPICAL DETAILS SHEET 2
18-596-C7017	TYPICAL DETAILS SHEET 3
18-596-C7050	CONTROL LINE SETOUT PLAN
18-596-C7101	ROADWORKS AND STORMWATER DRAINAGE SHEET 1
18-596-C7102	ROADWORKS AND STORMWATER DRAINAGE SHEET 2
18-596-C7103	ROADWORKS AND STORMWATER DRAINAGE SHEET 3
18-596-C7104	ROADWORKS AND STORMWATER DRAINAGE SHEET 4
18-596-C7105	ROADWORKS AND STORMWATER DRAINAGE SHEET 5
18-596-C7106	ROADWORKS AND STORMWATER DRAINAGE SHEET 6
18-596-C7107	ROADWORKS AND STORMWATER DRAINAGE SHEET 7
18-596-C7121	INTERSECTION PLAN SHEET 1
18-596-C7122	INTERSECTION PLAN SHEET 2
18-596-C7123	INTERSECTION PLAN SHEET 3
18-596-C7124	INTERSECTION PLAN SHEET 4
18-596-C7125	INTERSECTION PLAN SHEET 5
18-596-C7131	ROAD 01 LONGITUDINAL SECTION SHEET 1
18-596-C7132	ROAD 101 LONGITUDINAL SECTION SHEET 1
18-596-C7201	BULK EARTHWORKS CUT/FILL PLAN SHEET 1
18-596-C7202	BULK EARTHWORKS CUT/FILL PLAN SHEET 2
18-596-C7301	PAVEMENT MARKING AND SIGNPOSTING SHEET 1
18-596-C7302	PAVEMENT MARKING AND SIGNPOSTING SHEET 2
18-596-C7321	PAVEMENT PLAN SHEET 1
18-596-C7322	PAVEMENT PLAN SHEET 2
18-596-C7323	PAVEMENT PLAN SHEET 3
18-596-C7324	PAVEMENT PLAN SHEET 4
18-596-C7401	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 1
18-596-C7402	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 2
18-596-C7403	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 3
18-596-C7412	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)
18-596-C7421	STORMWATER DRAINAGE DETAILS SHEET 1
18-596-C7431	PIT SETOUT DETAILS
18-596-C7435	DIVERSION PIT DETAILS
18-596-C7501	ROAD CROSS SECTIONS ROAD 01 SHEET 1
18-596-C7502	ROAD CROSS SECTIONS ROAD 01 SHEET 2
18-596-C7631	EROSION AND SEDIMENT CONTROL PLAN SHEET 1
18-596-C7632	EROSION AND SEDIMENT CONTROL PLAN SHEET 2
18-596-C7633	EROSION AND SEDIMENT CONTROL DETAILS

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DRAWING LIST

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A1

Project - Drawing No.: 18-596-C7001
Issue: 1

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SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMAPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO TfNSW SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW FORM 3051 (UNBOUND), TfNSW FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^3 OF SUB-BASE COURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TfNSW FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^3 OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH TfNSW FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
13. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRID'S EASEMENT TO COMPLY WITH TRANSGRID'S GUIDELINES AND REQUIREMENTS.
14. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS

SURVEY NOTES

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

PRIOR TO THE COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL UNDERTAKE A DETAILED BOUNDARY SURVEY AND COMPARE AGAINST THE DESIGN FOR DISCREPANCIES.
SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA, DESIGN DATA AND ACTUAL FIELD DATA, CONTACT AT & L IMMEDIATELY.

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

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

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

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

DEWATERING

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

EXISTING UNDERGROUND SERVICES

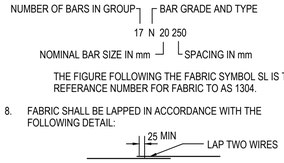
1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
2. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
5. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
6. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

CONCRETE NOTES

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

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

   - CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
   - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH TfNSW SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
   R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
   SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304



   THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304.
8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

DECOMMISSIONING / DEMOLITION

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

CONTINUED ABOVE AND RIGHT

DECOMMISSIONING / DEMOLITION

CONTINUED FROM BELOW

6. ALL OVERHEAD SERVICES SHALL BE REMOVED FROM WITHIN THE SITE BOUNDARY AND MADE SAFE AT THE TERMINATION LOCATION. ANY POLES SHALL BE REMOVED FROM THE SITE.
7. ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

KERBING NOTES

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

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   (A) AVERAGE RECURRENCE INTERVAL:
   1:100 YEARS MAJOR STORM (OVERLAND FLOW)
   1:20 YEARS MINOR STORM (PIPED NETWORK)
   (B) RAINFALL INTENSITIES:
   TIME OF CONCENTRATION:5 MINUTES
   1:100 YEARS= 219 mm/hr
   1:20 YEARS= 167 mm/hr
   (C) RUNOFF COEFFICIENTS:
   ROOF AREAS: C 100 =1.0
   EXTERNAL PAVEMENTS: C 100 =1.0
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O..
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.
5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
8. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
9. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
10. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
11. GRATES AND COVERS SHALL CONFORM TO AS 3996 AND PENRITH CITY COUNCIL CONSTRUCTION SPECIFICATIONS.
12. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
13. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.
14. ALL STORMWATER PITS ARE TO BE CAST IN-SITU IN ACCORDANCE WITH THE STORMWATER DETAILS AND SPECIFICATIONS, UNLESS APPROVED BY THE SUPERINTENDENT / PENRITH CITY COUNCIL. IF APPROVED AND IN ADDITION TO THE SPECIFICATION,

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

CONTINUED ABOVE

STORMWATER DRAINAGE NOTES

F. ANY DAMAGE TO THE STRUCTURAL INTEGRITY OF THE PRE-CAST PIT WILL BE REPAIRED AND STRUCTURALLY CERTIFIED TO THE SATISFACTION OF THE SUPERINTENDENT / PENRITH CITY COUNCIL.
G. ALL PRE-CAST PIT PENETRATIONS SHALL BE CUT SO THAT IT IS FLUSH WITH THE INTERNAL WALL.
H. PIPE JOINTING/SEALING OF PIPE PENETRATION TO BE WITH A NON-SHRINK MORTAR MIX, E.G. LANKO 702 DURABED OR SIMILAR APPROVED.
I. SUBSOIL DRAINAGE FLUSHING AND/OR INTERMEDIATE RISERS TO BE INSTALLED AT 40m CENTRES, AND AT ALL UPSTREAM ENDPOINTS
J. ANY ADDITIONAL PENETRATIONS TO ANY STRUCTURAL CONCRETE (E.G. STORMWATER PITS, CULVERTS, HEADWALLS ETC.) SHALL BE CORE DRILLED AND STEEL BLOWN OUT TO MANUFACTURERS REQUIREMENTS, IF REQUIRED.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE, THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
4. COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A SUITABLY QUALIFIED EROSION AND SEDIMENT CONSULTANT FOR THE DURATION OF THE CONTRACT WITH THE EXPERTISE IN DESIGNING AND DOCUMENTING THE CONTROLS TO ALLOW THE INSTALLATION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROLS. SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR REQUIRED TO SUIT THE CONSTRUCTION STAGING
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER. SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
   b. LOCAL AUTHORITY REQUIREMENTS
   c. EPA REQUIREMENTS
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

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

CONTINUED ABOVE

EROSION AND SEDIMENT CONTROL NOTES

CONTINUED FROM BELOW

SEDIMENT CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

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

STAGING

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

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

EARTHWORKS NOTES

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

DESIGN & CERTIFICATION REQUIREMENTS

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

CONSTRUCTION SPECIFICATION

1. THESE DRAWINGS SHOULD BE READ IN CONJUCTION WITH PENRITH CITY COUNCIL'S LATEST REVISION OF THE 'ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS'
2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR
   2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT
   2.2. THE PENRITH CITY COUNCIL'S SPECIFICATION TAKES PRECEDENCE
3. REFER PELLS SULLIVAN MEYNINK REPORT PSM3739-006S REV 6 (DATED 13 OCT 2020) FOR BULK EARTHWORKS SPECIFICATIONS.
4. REFER SITE IMAGE LANDSCAPE SPECIFICATION (CURRENT REVISION) FOR LANDSCAPE SPECIFICATION.

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS
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DIAL1100 BEFORE YOU DIG

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

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

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Client: mirvac

Scales
Grid MGA2020
Height Datum AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
NOTES AND LEGENDS
SHEET
SHEET 1

Civil Engineers and Project Managers
at&l
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North Sydney NSW 2060
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www.atl.net.au
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Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7002
Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A

OVERALL SITEWORKS LEGEND - COMBINED

- EXISTING BOUNDARY
- 60.0 EXISTING CONTOUR
- PROPOSED BOUNDARY
- PROPOSED EASEMENT
- BATTER
- F 48.81 PROPOSED SURFACE LEVE
- 48.00 PROPOSED MAJOR CONTOUR (1.0m INTERVAL)
- 48.20 PROPOSED MINOR CONTOUR (0.20m INTERVAL)
- K&G KERB AND GUTTER (REFER PCC DWG. SD1003/1)
- MK SF KERB PER TfNSW R0300-01
- PRAM RAMP (REFER PCC DWG. SD1002)
- VEHICLE CROSSOVER (REFER PCC DWG. SD1004)
- STORMWATER BOX CULVERT
- STORMWATER PIPE
- KERB INLET PIT (REFER PCC DWG. SD2001 U.N.O.)
- SURFACE INLET PIT (REFER PCC DWG. SD2002 U.N.O)
- JUNCTION PIT (REFER PCC DWG. SD2002 U.N.O)
- LIMIT OF WORKS
- SUBSOIL DRAINS WITH FLUSHING POINTS
- SUBSOIL DRAINAGE FLUSHING AND/OR INTERMEDIATE RISERS TO BE INSTALLED AT 40m CENTRES, AND AT ALL UPSTREAM END POINTS PER PCC SD2004
- GRASS LINED CATCH DRAIN REFER DWG C7016

CONSTRUCTION TOLERANCES

BULK EARTHWORKS		
EARTHWORKS 1	-50mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)
STORMWATER		
PIPES/CULVERTS	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT
PIPES/CULVERTS	WITHIN 100mm	OF THE PLAN POSITION SHOWN ON THE DRAWINGS OR SPECIFIED AT ANY POINT
HEADWALLS	WITHIN 20mm	OF THE DESIGN INVERT LEVEL AT ANY POINT
HEADWALLS	WITHIN 100mm	OF THE PLAN POSITION SHOWN ON THE DRAWINGS OR SPECIFIED AT ANY POINT
CHAMBERS	WITHIN 20mm	OF THE INVERT LEVEL SHOWN ON THE DRAWINGS
CHAMBERS	WITHIN 200mm	LONGITUDINALLY OF THE PLAN POSITION, WITH REFERENCE TO THE CONTROL LINE FOR THE ROAD SHOWN ON THE DRAWINGS
LINTELS	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL	
COVERS	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL	
GRATES	AS PER THE TOLERANCES SPECIFIED FOR THE ADJOINING MATERIAL	
OPEN DRAINS	WITHIN 50mm	OF THE DESIGN LEVEL AT ANY POINT PROVIDED THAT THERE IS A CONTINUOUS DOWNGRADE (WITHOUT PONDING) IN THE DIRECTION OF FLOW NOT LESS THAN 0.5% AT ANY POINT
PAVEMENT / ACCESS TRACKS		
SUBBASE	-10mm / +10mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)
SUBBASE	-10mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)
SUBBASE	-5mm / +5mm	ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION) OVER A LENGTH OF 3 METRES
BASECOURSE	-0mm / +20mm	OF PAVEMENT COURSE THICKNESS (AFTER COMPACTION & TRIMMING)
BASECOURSE	-0mm / +10mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)
BASECOURSE	-5mm / +5mm	ALONG THE FINISHED SURFACE (LAID IN ANY DIRECTION) OVER A LENGTH OF 3 METRES
SEAL	-0mm / +10mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER ROLLING AGGREGATE)
SEAL	-5mm / +10mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE DATE OF PRACTICAL COMPLETION
SEAL	SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE JOINTS, MUST NOT POND WATER.	
ASPHALT	-0mm / +10mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION)
ASPHALT	-5mm / +5mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE DATE OF PRACTICAL COMPLETION
ASPHALT	-8mm / +8mm	ALONG THE FINISHED SURFACE OVER THE CARRIAGEWAY WIDTH AT THE COMPLETION OF THE DEFECT LIABILITY PERIOD
ASPHALT	SURFACE OF THE COURSE, INCLUDING LONGITUDINAL AND TRANSVERSE JOINTS, MUST NOT POND WATER.	

PAVEMENT / ACCESS TRACKS		
CONCRETE		
KERB	-5mm / +5mm	ALONG THE TOP OF KERB OVER A LENGTH OF 5 METRES
KERB	-5mm / +5mm	ALONG THE FACE OF KERB OVER A LENGTH OF 5 METRES
PATH	-0mm / +10mm	OF FOOTPATH/SHARED PATH FINISHED SURFACE LEVEL
PATH	SURFACE OF THE PATH, INCLUDING JOINTS, MUST NOT POND WATER.	
VERGE		
TURF	-10mm / +0mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC)
MULCH	-10mm / +0mm	OF PAVEMENT FINISHED SURFACE LEVEL (AFTER COMPACTION) TO THE ADJOINING MATERIAL (FOOTPATHS, KERBS, ETC)
RETAINING / NOISE WALLS		
WALL	-20mm / +20mm	FROM ANY POINT ON THE WALL THE LEVEL MUST NOT DEVIATE FROM THAT SPECIFIED
WALL	-10mm / +10mm	INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (BLOCK WALL)
WALL	-5mm / +0mm	INCLINATION OF THE FACE OF THE COMPLETED WALL MUST NOT DEVIATE FROM THE SPECIFIED INCLINATION PER METER HEIGHT (PANEL WALL)
WALL	-20mm / +20mm	FLATNESS OF THE FACE OF THE WALL MUST BE SUCH THAT THE MAXIMUM DEVIATION FROM A 4.5 M STRAIGHT EDGE

TOLERANCE FOR EMBANKMENT BATTERS

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

REFER TO TfNSW R44 SPECIFICATION

PENRITH CITY COUNCIL
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Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
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Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

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Client: mirvac

Scales: Grid MGA2020; Height Datum AHD; GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: NOTES AND LEGENDS SHEET
SHEET 2

Civil Engineers and Project Managers
at&l
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Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7003
Issue: 1

100mm on Original

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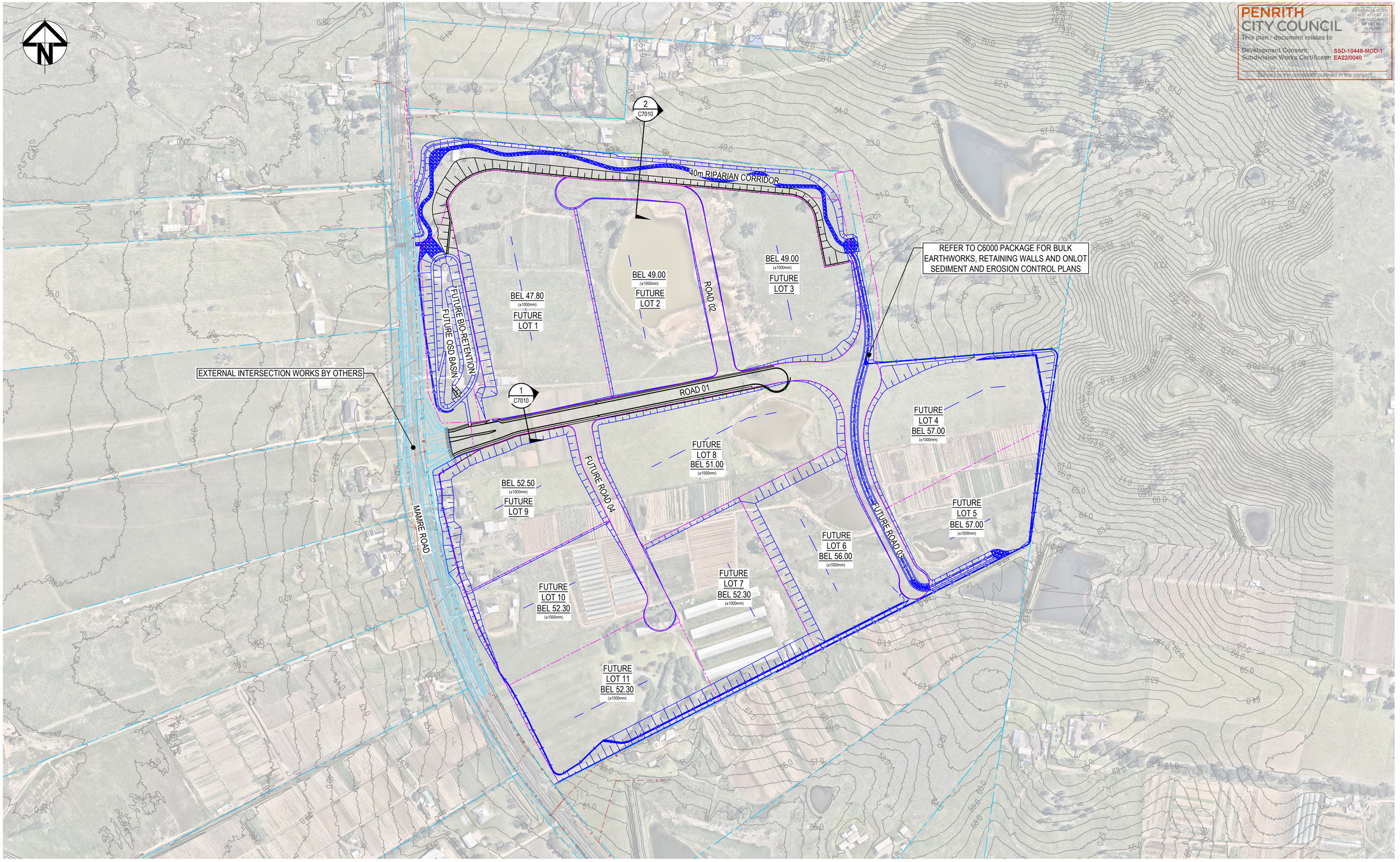

PENRITH CITY COUNCIL

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Subdivision Works Certificate: EA22/0040

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Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

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Client

mirvac

Scales	1:2500
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

GDA2020

Project

ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers

at&l

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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7005

Issue: 1

100mm on Original

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Subdivision Works Certificate: EA22/0040
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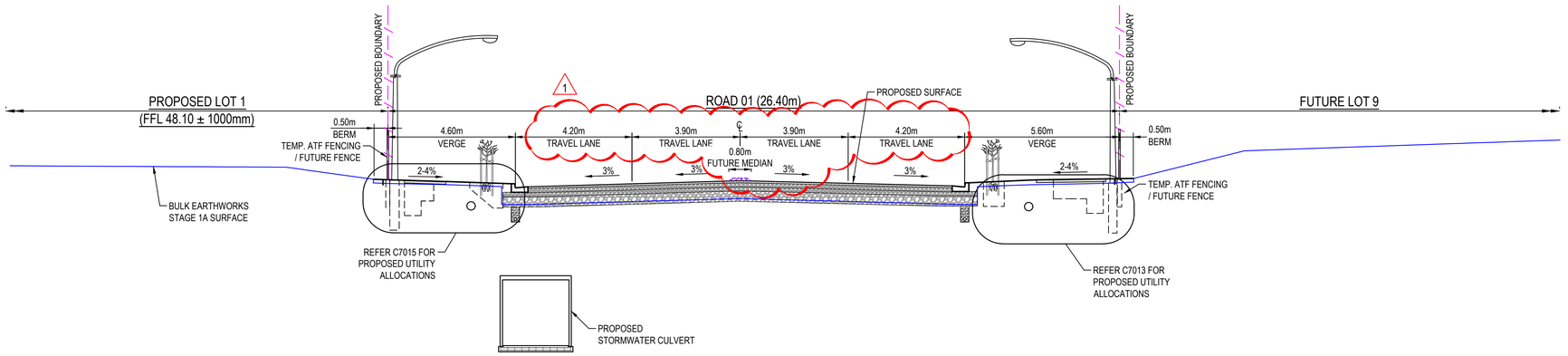
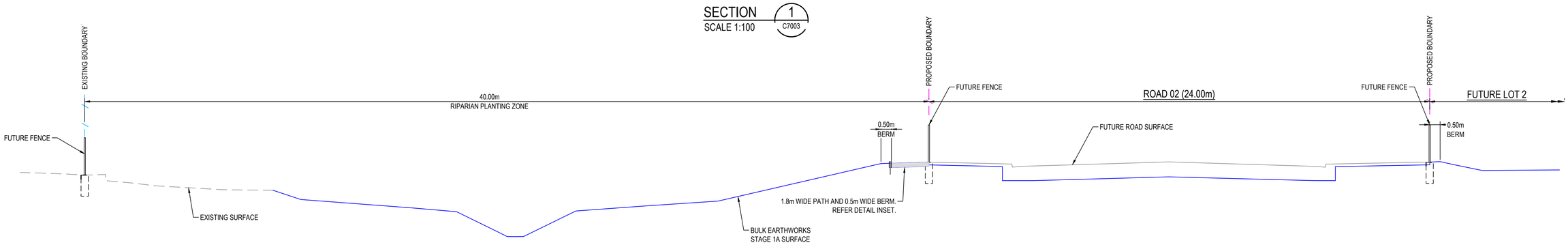
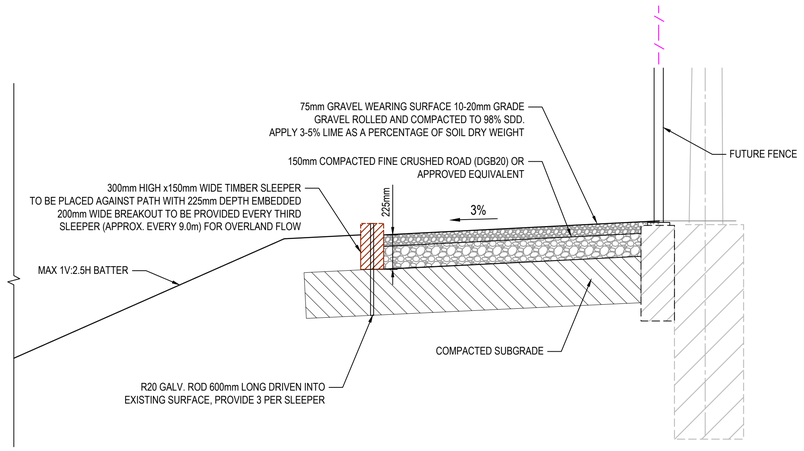


SECTION 1
SCALE 1:100
C7003



SECTION 2
SCALE 1:100
C7003



GRANULAR PATH DETAIL
SCALE 1:20

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales

0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

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Client: mirvac

Scales	AS SHOWN
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

GDA2020

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: TYPICAL SECTIONS

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Status: FOR CONSTRUCTION
Issue: A1

Project - Drawing No.: 18-596-C7010
Issue: 1

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Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
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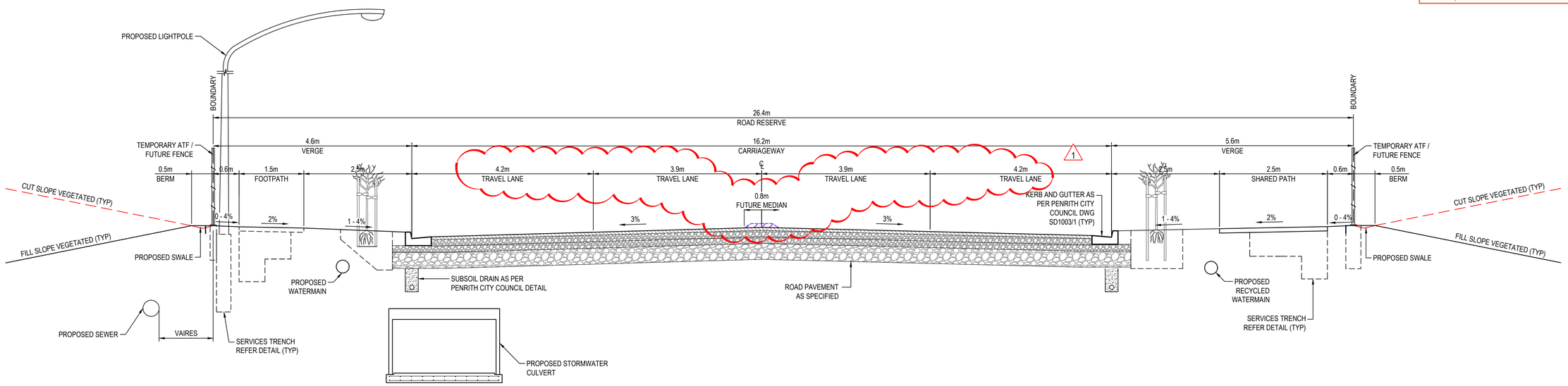

TYPICAL SECTION - ESTATE ROAD 01

SCALE 1:50

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

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Client: mirvac

Scales	1:50
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

GDA2020

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: TYPICAL ROAD SECTIONS

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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7012

Issue: 1

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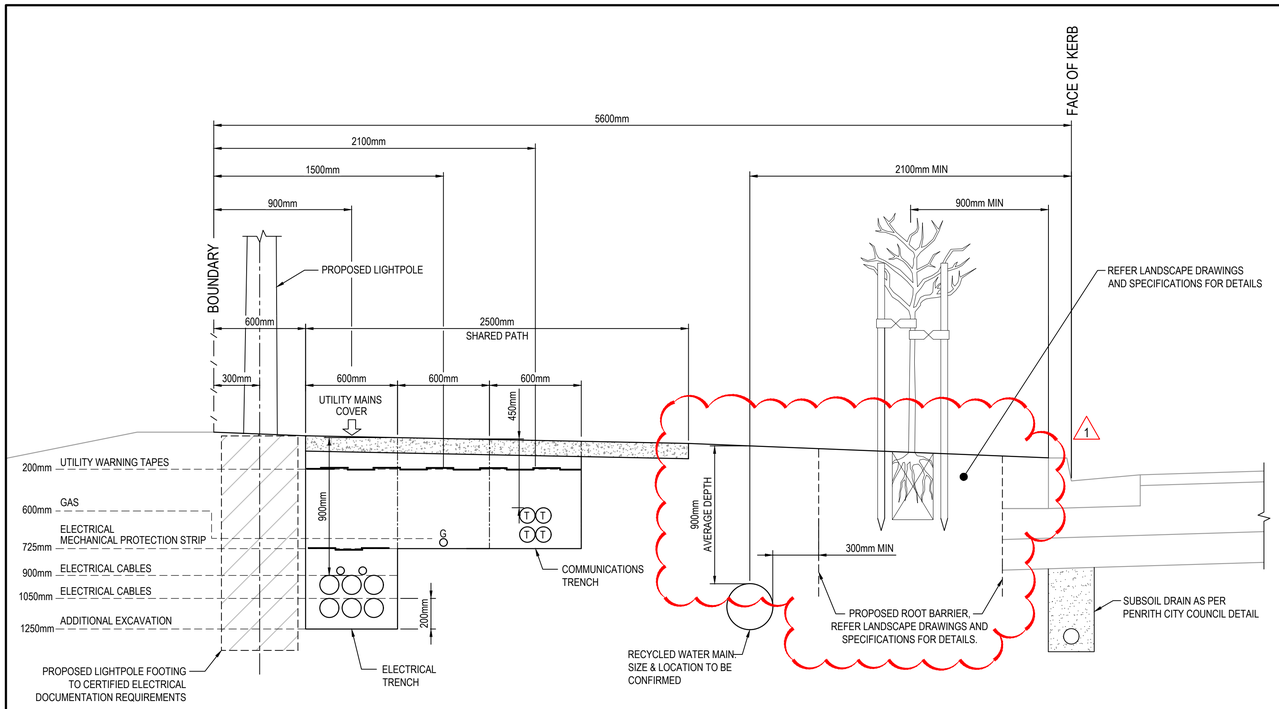
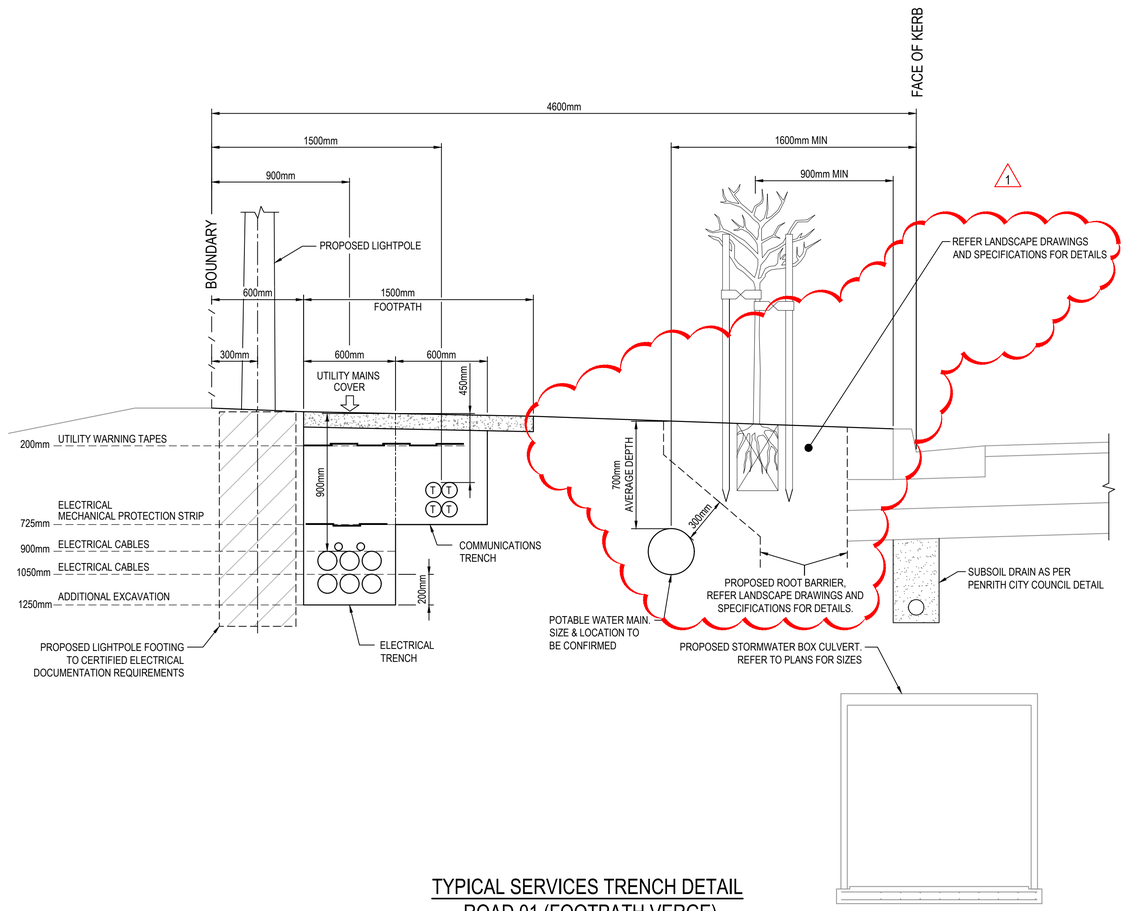


TYPICAL SERVICES TRENCH DETAIL
ROAD 01 (SHARED PATH VERGE)

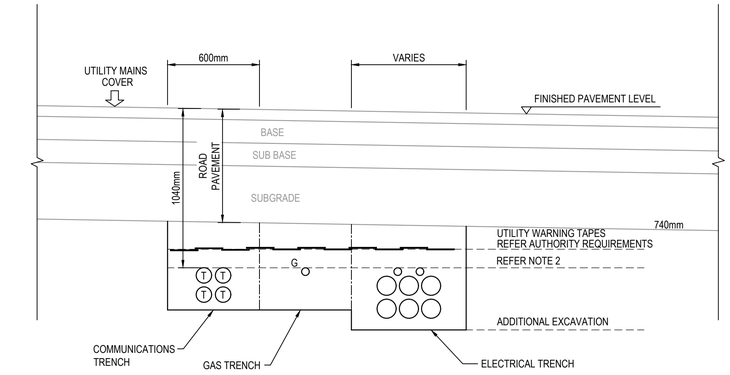
SCALE 1:20

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



TYPICAL SERVICES TRENCH DETAIL
ROAD 01 (FOOTPATH VERGE)

SCALE 1:20



TYPICAL SERVICES TRENCH DETAIL (ROAD CROSSING)

SCALE 1:20

NOTES

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

PENRITH CITY COUNCIL
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1	ISSUED FOR CONSTRUCTION	12-10-22
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Bar Scales

0 100 200 400 600 800 1000mm
1 : 10 @ A1 1 : 20 @ A3

0 500 1000 1500 2000mm
1 : 20 @ A1 1 : 40 @ A3

100mm on Original

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Scales	AS SHOWN
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Height Datum	AHD
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Designed	JB/MH
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Approved	DS

GDA2020

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: TYPICAL DETAILS
SHEET 1

Civil Engineers and Project Managers
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Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7015
Issue: 1

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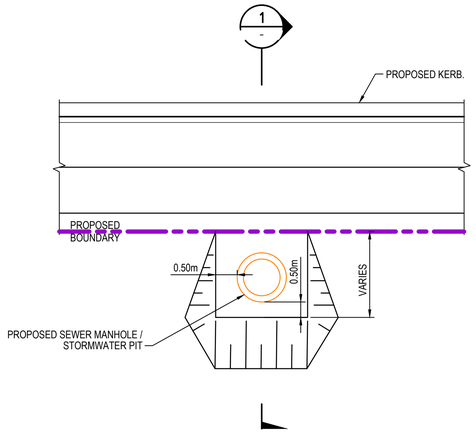
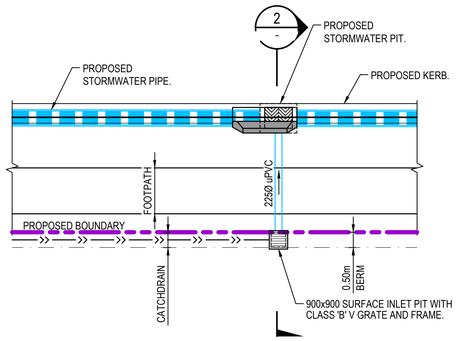
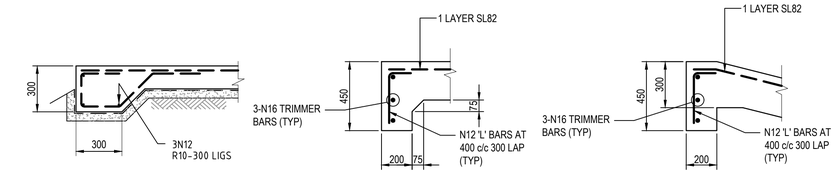


SEWER MANHOLE AND STORMWATER PIT IN BATTER DETAIL



TYPICAL BATTER CATCH DRAIN PIT DETAIL

1 : 100



THICKENED EDGE DETAIL (TE)

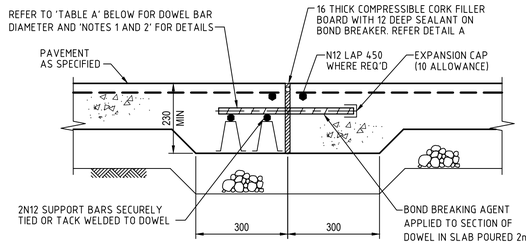
SCALE 1:20

EDGE BEAM DETAIL 1 (EB)

SCALE 1:20

EDGE BEAM DETAIL 2 (EB)

SCALE 1:20



DOWELLED EXPANSION JOINT (DEJ)

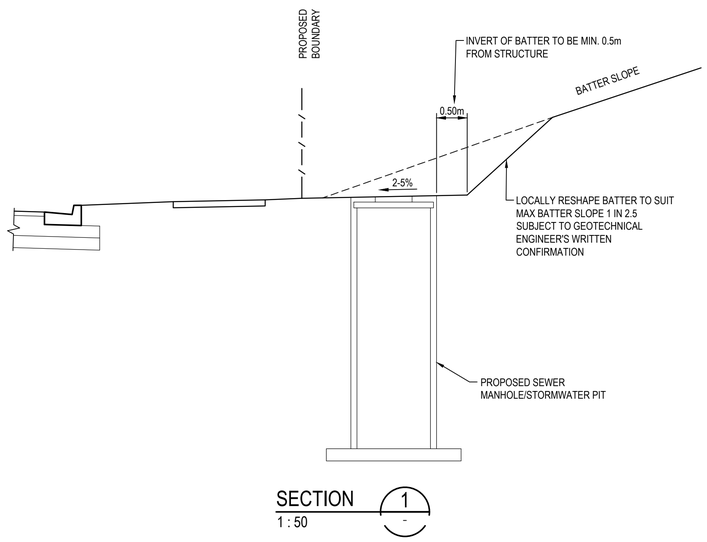
SCALE 1:10

NOTE

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

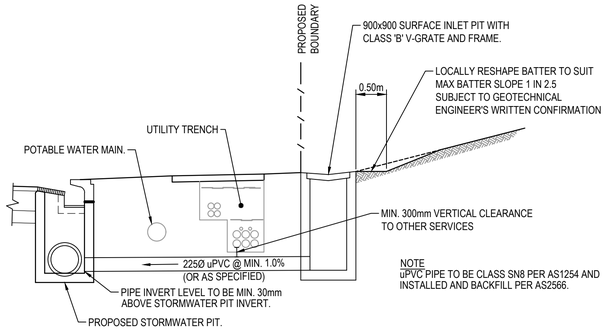
TABLE A

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



SECTION 1

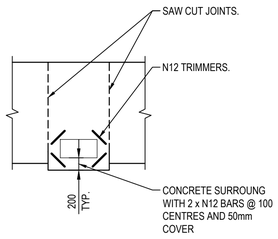
1 : 50



NOTE
uPVC PIPE TO BE CLASS SN8 PER AS1254 AND INSTALLED AND BACKFILL PER AS2566.

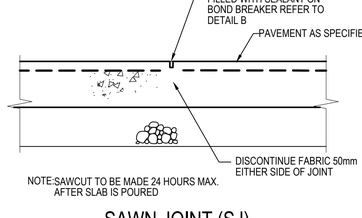
SECTION 2

1 : 50



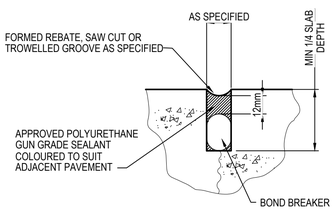
SERVICE COVER IN FOOTPATH TYPICAL DETAIL

SCALE 1:50



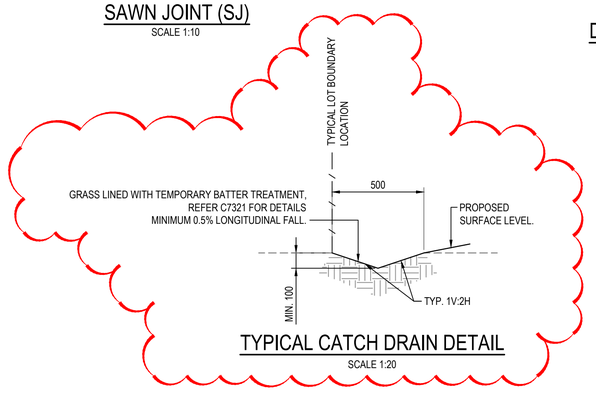
SAWN JOINT (SJ)

SCALE 1:10



DETAIL B

N.T.S.



TYPICAL CATCH DRAIN DETAIL

SCALE 1:20

1

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Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

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

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: TYPICAL DETAILS
SHEET 2

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Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7016
Issue: 1

100mm on Original

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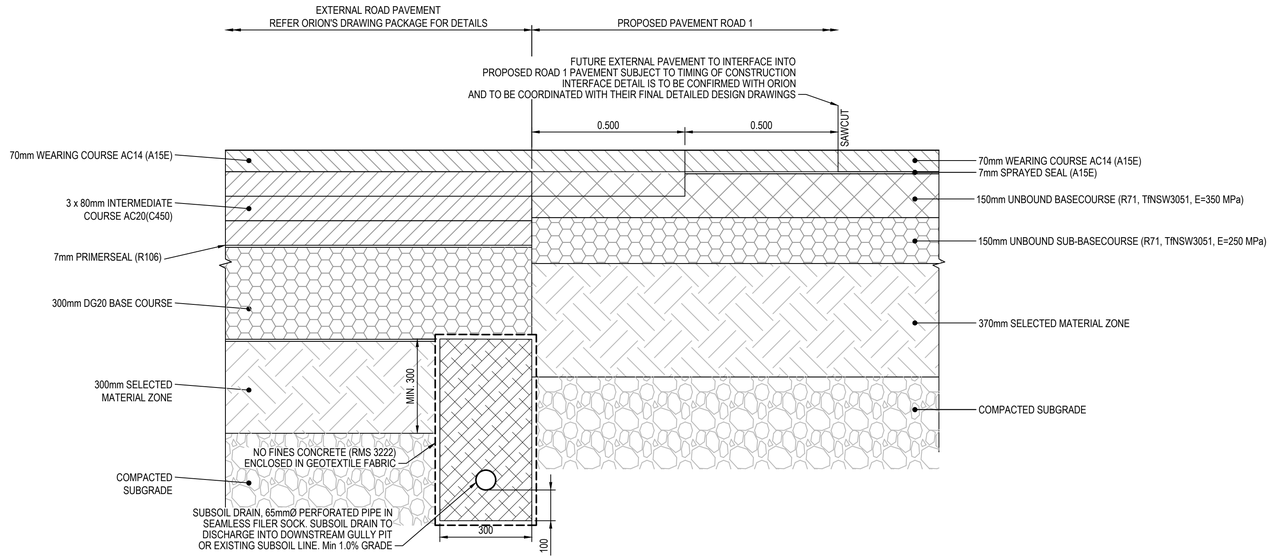
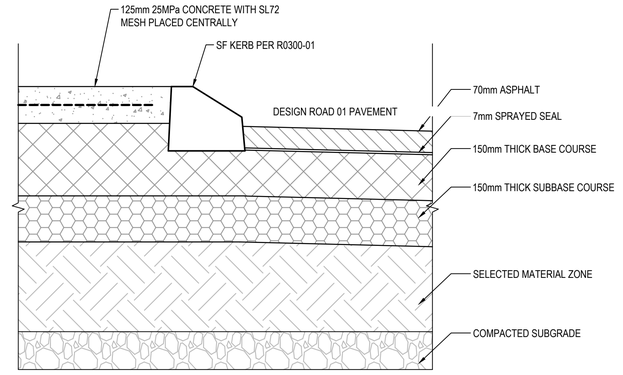


PAVEMENT INTERFACE DETAIL

SCALE 1:10



TYPICAL SECTION THROUGH RAISED TRAFFIC ISLAND

SCALE 1:10

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: TYPICAL DETAILS
SHEET 3

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Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7017
Issue: 1

100mm on Original

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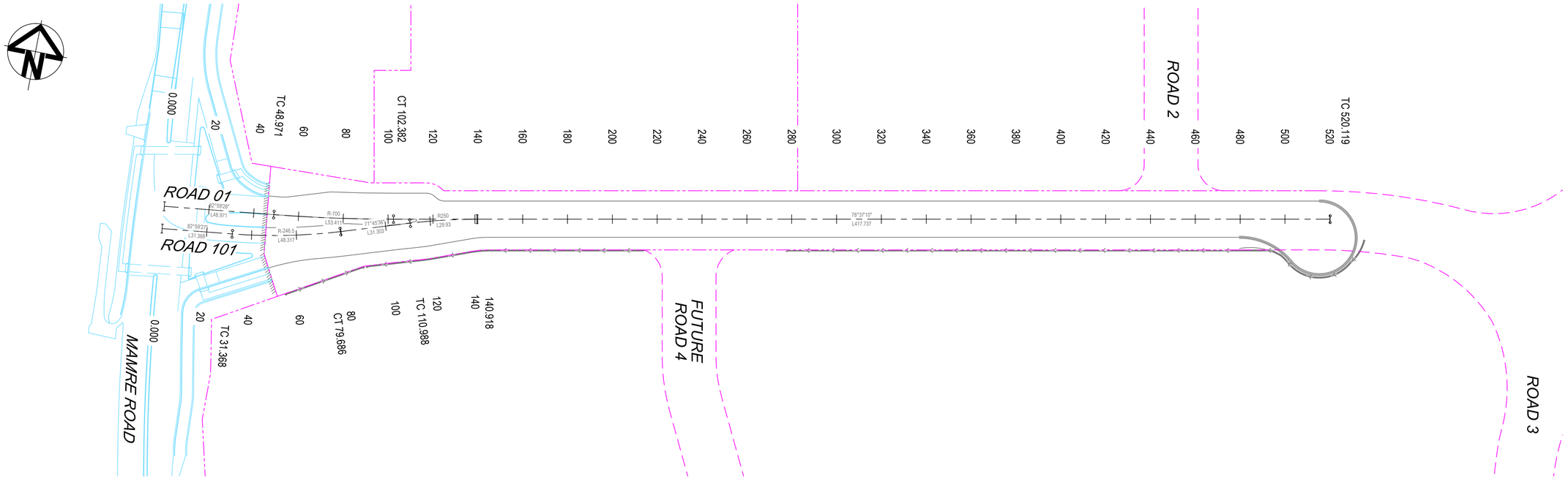

PLAN
1 : 1000

CONTROL ROAD - ROAD 01 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	294705.871	6253037.413	82°59'28.38"			
TC	48.971	294754.476	6253043.389	82°59'28.38"			
IP 2	75.676	294780.995	6253046.649		R = -700.000	53.411	4°22'18.19"
CT	102.382	294807.188	6253051.921	78°37'10.18"			
TC	520.119	295216.712	6253134.350	78°37'10.18"			

CONTROL ROAD - ROAD 101 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	294706.867	6253027.460	82°59'27.15"			
TC	31.368	294738.001	6253031.288	82°59'27.15"			
IP 2	55.527	294762.056	6253034.245		R = -246.500	48.317	11°13'50.82"
CT	79.686	294785.075	6253041.831	71°45'36.33"			
TC	110.988	294814.805	6253051.629	71°45'36.33"			
IP 3	125.953	294829.035	6253056.319		R = 250.000	29.930	6°51'33.99"
IP 4	140.918	294843.723	6253059.275	78°37'10.32"			

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client: mirvac

Scales: 1:1000
Grid: MGA2020
Height Datum: AHD

Drawn: JB/MH
Designed: JB/MH
Checked: DS
Approved: DS

GDA2020

Project
ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
CONTROL LINE SETOUT PLAN

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Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7050
Issue: 1

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PROPOSED 4 x Ø600 FRC @ BASE IL 41.44 (C-C SPACING 900mm) FOR FUTURE LOW FLOW PIPES TO DRAIN TO FUTURE FILTERRA BIO-RETENTION SYSTEM. REFER DRAWING C7155 FOR TEMPORARY OUTLET DETAILS.

PROPOSED STORMWATER SPLITTER PIT WITH LOW AND HIGH FLOW WEIR. LOW FLOW IS TO BE DIRECTED INTO BIO BASN AND HIGH FLOW IS TO BE DIRECTED INTO OSD BASIN

FUTURE BASIN MAINTENANCE ACCESS TRACK

CAP PROPOSED STORMWATER PIP FOR FUTURE CONNECTION

INTERSECTION GEOMETRY (INCLUSIVE OF BOUNDARY) BASED ON INDICATIVE TINSW CONCEPT PLAN. TBC WITH TINSW AT DETAILED DESIGN

EXISTING SEDIMENT BASIN AND EMERGENCY OVERFLOW PATH TO BE DECOMMISSIONED AS PART OF ROAD WORKS, REFER DWG C7631 FOR DETAILS.

INSTALL SUBSOIL DRAIN WITH FLUSHING POINTS PER PCC SD2004

PROPOSED CATCH DRAIN PER C7016, EXISTING BATTER TO BE LOCALLY ADJUSTED TO SUIT

900SQ INLET PIT WITH CLASS 'B' V GRATE FOR TEMPORARY CATCH DRAIN

1V:3H BATTER

EXTEND EXISTING CATCH DRAIN AND DIRECT TO PROPOSED FIELD INLET PIT

CAP PROPOSED STORMWATER PIPE FOR FUTURE CONNECTION

EXISTING SEDIMENT BASIN, REFER C6000 PACKAGE FOR DETAILS

LIMIT OF WORKS

FUTURE LOT 1

FUTURE LOT 9

MAMRE ROAD

ROAD 01

ROAD 101

ROAD RESERVE

AA1-15 AA1-14 AA1-13 AA12-1 AA12-2 AA11-1 AA14-2 AA14-1 AA14-1A AA13-2 AA13-1 AA15-1

BOX CULVERT 2 x 2.4W x 2.4H

BOX CULVERT 1.5W x 0.9H

FRC Ø375

uPVC Ø300

uPVC Ø225

FRC Ø675

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ADJOINS DRG 18-596-C7102

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Key Plan

Client

mirvac

Scales	1:250
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

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Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

ROADWORKS
AND STORMWATER DRAINAGE
SHEET 1

Civil Engineers and Project Managers

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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7101

Issue: 1

100mm on Original

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ADJOINS DRG 18-596-C7101

ADJOINS DRG 18-596-C7103

FUTURE LOT 1

FUTURE LOT 2

160 180 200 220 240 260 280 300 320 340

BOX CULVERT 2.4W x 2.4H

BOX CULVERT 2.1W x 2.4H

AA1-10 AA1-9 AA1-7 AA1-6 AA2-4

AA9-1 AA8-1 AA6-1 AA8-2

FRC Ø375 FRC Ø450 uPVC Ø225

1.50m 4.60m 8.10m 26.40m ROAD RESERVE 8.10m 2.50m 5.60m

ROAD 01

K&G

47.00 47.20 47.40 47.60 47.80 48.00

78°37'10" L417.737

CAP PROPOSED STORMWATER PIPE FOR FUTURE CONNECTION

EXISTING SEDIMENT BASIN AND EMERGENCY OVERFLOW PATH TO BE DECOMMISSIONED AS PART OF ROAD WORKS, REFER DWG C7631 FOR DETAILS.

900SQ INLET PIT WITH CLASS 'B' V GRATE FOR TEMPORARY CATCH DRAIN

FUTURE ROAD 04

FUTURE LOT 9

FUTURE LOT 8

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

100mm on Original

Key Plan

Client: mirvac

Scales	1:250
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
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Approved	DS

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Project: ASPECT INDUSTIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: ROADWORKS AND STORMWATER DRAINAGE SHEET 2

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Status: FOR CONSTRUCTION

Issue: A1

Project - Drawing No.: 18-596-C7102

Issue: 1

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ADJOINS DRG 18-596-C7102

FUTURE LOT 2
ROAD 02
FUTURE LOT 3
TC 520.119
360 380 400 420 440 460 480 500 520

CAP PROPOSED STORMWATER PIPE FOR FUTURE CONNECTION
AA7-1
BOX CULVERT 1.5W x 0.9H
AA5-1
BOX CULVERT 2.1W x 2.4H
AA1-5
BOX CULVERT 2.1W x 2.4H
K&G
AA1-4
BOX CULVERT 1.8W x 1.8H
AA1-3B
AA1-3
BOX CULVERT 1.8W x 1.5H
1.50m
4.60m
AA1-2
K&G
BOX CULVERT 1.8W x 1.5H
AA1-1
1V:3H BATTER
AA1-A
DD
BOX CULVERT 1.8W x 1.5H
CAP PROPOSED STORMWATER PIPE FOR FUTURE CONNECTION
ROAD 01
FRC Ø375
48.20
BOX CULVERT 1.5W x 1.2H
48.40
FRC Ø525
48.60
8.10m
26.40m ROAD RESERVE
48.80
FRC Ø375
AA10-1
49.00
49.20
49.40
49.60
49.80
R16.45
4.60
AA4-2
K&G
AA4-1B
2.50m
5.60m
FRC Ø450
900SQ INLET PIT WITH CLASS 'B' V GRATE FOR TEMPORARY CATCH DRAIN
FRC Ø450
AA4-1
AE1-7
CAP PROPOSED STORMWATER PIPE FOR FUTURE CONNECTION
CAP PROPOSED STORMWATER PIPE FOR FUTURE CONNECTION
1V:3H BATTER
1
C7121
DD
TEMPORARY CULDESAC FOR STAGE 1A WORKS.
1V:3H BATTER
FUTURE LOT 8

Issue	Description	Date
2	ISSUED FOR CONSTRUCTION	17-10-22
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

Key Plan

Client
mirvac

Scales 1:250
Grid MGA2020
Height Datum AHD
Drawn JB/MH
Designed JB/MH
Checked DS
Approved DS

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Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
ROADWORKS
AND STORMWATER DRAINAGE
SHEET 3

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Status FOR CONSTRUCTION
A1
Project - Drawing No. 18-596-C7103
Issue 2

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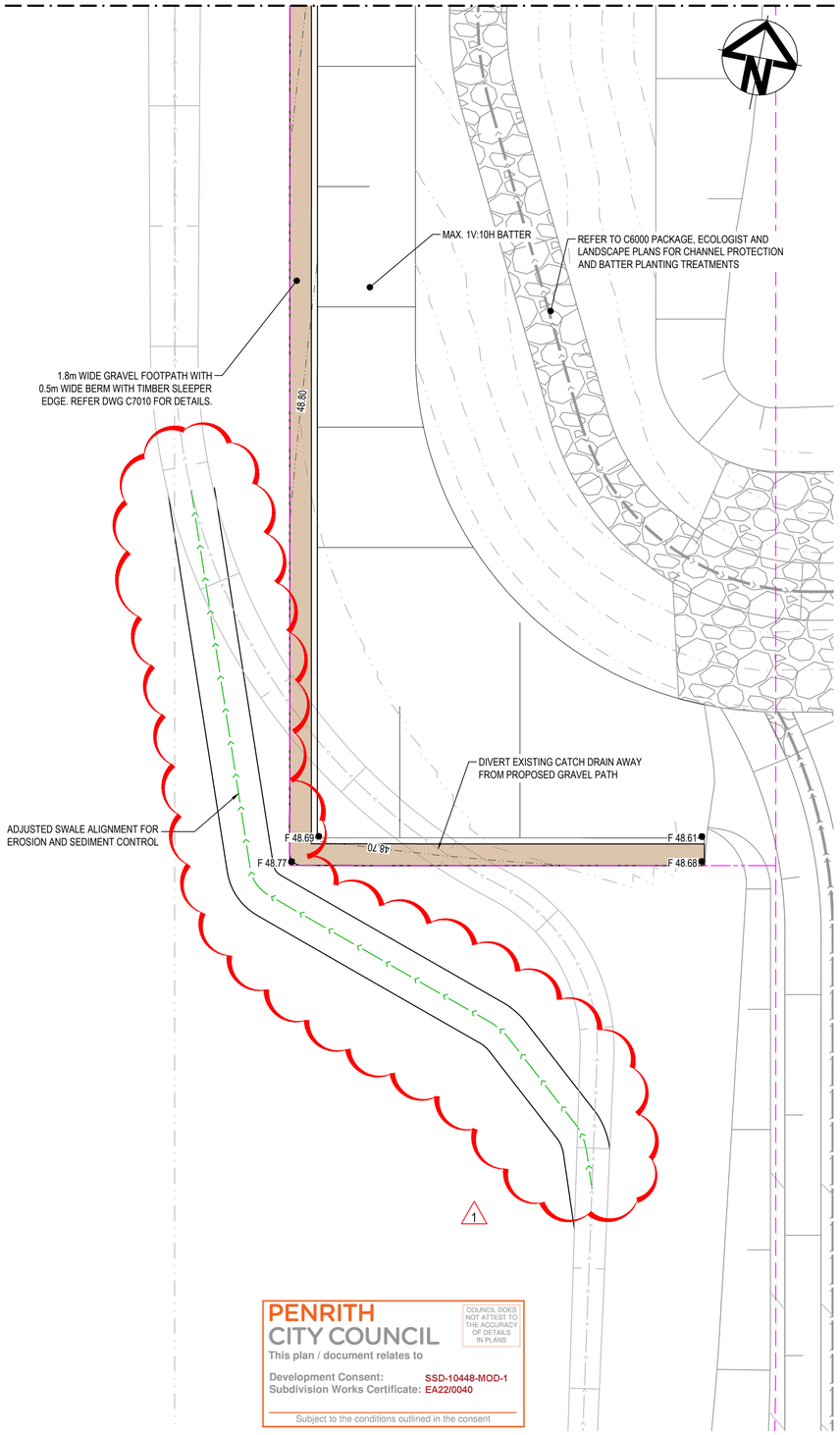
ADJOINS DRG 18-596-C7105

FUTURE
LOT 3



PENRITH CITY COUNCIL
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Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

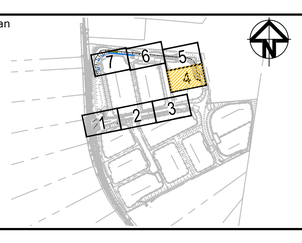
100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Key Plan



Client

mirvac

Scales	1:250
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
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Approved	DS

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Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
ROADWORKS
AND STORMWATER DRAINAGE
SHEET 4

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Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7104
Issue: 1

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ADJOINS DRG 18-596-C7106

REFER TO C6000 PACKAGE, ECOLOGIST AND LANDSCAPE PLANS FOR CHANNEL PROTECTION AND BATTER PLANTING TREATMENTS

MAX. 1V:3H BATTER

1.8m WIDE GRAVEL FOOTPATH WITH 0.5m WIDE BERM WITH TIMBER SLEEPER EDGE. REFER DWG C7010 FOR DETAILS.

RIPARIAN CORRIDOR

MAX. 1V:10H BATTER

MAX. 1V:4H BATTER

FUTURE LOT 3

EXISTING SEDIMENT BASIN, REFER C6000 PACKAGE FOR DETAILS

1.8m WIDE GRAVEL FOOTPATH WITH 0.5m WIDE BERM WITH TIMBER SLEEPER EDGE. REFER DWG C7010 FOR DETAILS.

F 48.74
48.80
F 48.81

MAX. 1V:10H BATTER

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

ADJOINS DRG 18-596-C7104

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

Key Plan

Client: mirvac

Scales: 1:250
Grid: MGA2020
Height Datum: AHD

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
ROADWORKS
AND STORMWATER DRAINAGE
SHEET 5

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 CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7105
Issue: 1

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A CC\18-596-C7105.dwg

ADJOINS DRG 18-596-C7107

ADJOINS DRG 18-596-C7105

BLUE HATCHED AREA DENOTES FUTURE IN GROUND STORMWATER PROPOSED WITHIN VICINITY OF PROPOSED FOOPATH. STORMWATER DESIGN SUBJECT TO SEPARATE SSDA APPROVALS. CONTACT AT&L FOR DETAILS

1.8m WIDE GRAVEL FOOTPATH WITH 0.5m WIDE BERM WITH TIMBER SLEEPER EDGE. REFER DWG C7010 FOR DETAILS.

REFER TO C6000 PACKAGE, ECOLOGIST AND LANDSCAPE PLANS FOR CHANNEL PROTECTION AND BATTER PLANTING TREATMENTS

MAX. 1V:4H BATTER

RIPARIAN CORRIDOR

EXISTING SEDIMENT BASIN, REFER C6000 PACKAGE FOR DETAILS

ROAD 02

MAX. 1V:8H BATTER

1.8m WIDE GRAVEL FOOTPATH WITH 0.5m WIDE BERM WITH TIMBER SLEEPER EDGE. REFER DWG C7010 FOR DETAILS.

EXISTING SEDIMENT BASIN, REFER C6000 PACKAGE FOR DETAILS

FUTURE LOT 2

PENRITH CITY COUNCIL

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This plan / document relates to

Development Consent: SSD-10448-MOD-1

Subdivision Works Certificate: EA22/0040

Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Key Plan

Client

mirvac

Scales	1:250	Drawn	JB/MH
		Designed	JB/MH
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	DS

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GDA2020

Project

ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

ROADWORKS
AND STORMWATER DRAINAGE
SHEET 6

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 CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7106

Issue: 1

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A CC\18-596-C7106.dwg

MAX. 1:4 BATTER

JOINS BELOW

1

RIPARIAN CORRIDOR

BLUE HATCHED AREA DENOTES FUTURE IN GROUND STORMWATER PROPOSED WITHIN VICINITY OF PROPOSED FOOPATH. STORMWATER DESIGN SUBJECT TO SEPARATE SSDA APPROVALS. CONTACT AT&L FOR DETAILS

F 47.16
47.20
F 47.23

BLUE HATCHED AREA DENOTES FUTURE IN GROUND STORMWATER PROPOSED WITHIN VICINITY OF PROPOSED FOOPATH. STORMWATER DESIGN SUBJECT TO SEPARATE SSDA APPROVALS. CONTACT AT&L FOR DETAILS

MAX. 1:4 BATTER

47.10

47.30

MAX. 1:2.5 BATTER
ADDITIONAL BATTER STABILISATION TO BE CONFIRMED IN CONSULTATION WITH GEOTECHNICAL ENGINEER, AT&L AND ECOLOGIST/LANDSCAPE ARCHITECT

REFER TO C6000 PACKAGE, ECOLOGIST AND LANDSCAPE PLANS FOR CHANNEL PROTECTION AND BATTER PLANTING TREATMENTS

47.10

BLUE HATCHED AREA DENOTES FUTURE IN GROUND STORMWATER PROPOSED WITHIN VICINITY OF PROPOSED FOOPATH. STORMWATER DESIGN SUBJECT TO SEPARATE SSDA APPROVALS. CONTACT AT&L FOR DETAILS

EXISTING SEDIMENT BASIN, REFER C6000 PACKAGE FOR DETAILS

47.40

1.8m WIDE GRAVEL FOOTPATH WITH 0.5m WIDE BERM WITH TIMBER SLEEPER EDGE. REFER DWG C7010 FOR DETAILS.

F 46.63
F 46.70

MAX. 1:4 BATTER

PENRITH CITY COUNCIL
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1.8m WIDE GRAVEL FOOTPATH WITH 0.5m WIDE BERM WITH TIMBER SLEEPER EDGE. REFER DWG C7010 FOR DETAILS.

F 46.85
F 46.92

46.80
46.60
46.40
46.20
46.00
45.80
45.60
45.40
45.20
45.00
44.80
44.60

MAX. 1:3.5 BATTER

BLUE HATCHED AREA DENOTES FUTURE IN GROUND STORMWATER PROPOSED WITHIN VICINITY OF PROPOSED FOOPATH. STORMWATER DESIGN SUBJECT TO SEPARATE SSDA APPROVALS. CONTACT AT&L FOR DETAILS

REFER C8000 PACKAGE FOR STORMWATER OUTLET DETAILS

MAX. 1:3 BATTER

MATCH NEATLY WITH BASIN ACCESS PATH.

F 44.48
F 44.50

FUTURE
LOT 1

MAX. 1:3 BATTER

MAX. 1:4 BATTER

F 47.16
47.20
F 47.23

JOINS ABOVE

1

ADJOINS DRG 18-596-C7106

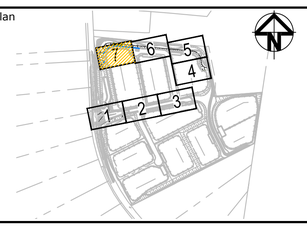
Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Key Plan



Client

mirvac

Scales	1:250	Drawn	JB/MH
		Designed	JB/MH
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	DS

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
ROADWORKS
AND STORMWATER DRAINAGE
SHEET 7

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 CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7107
Issue: 1

100mm on Original

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PENRITH CITY COUNCIL
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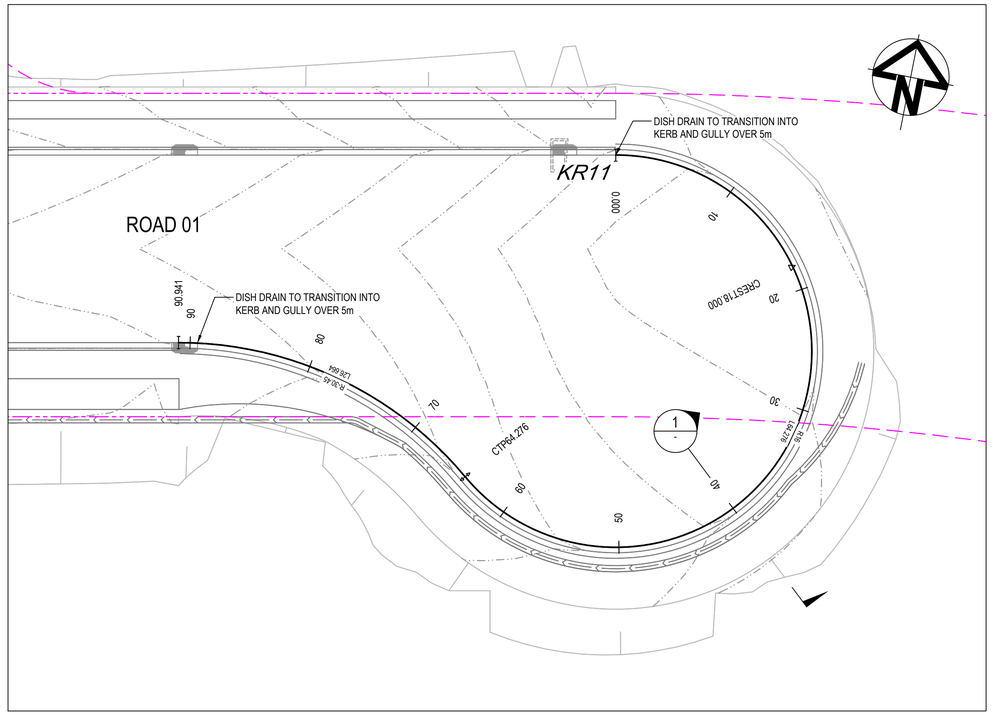
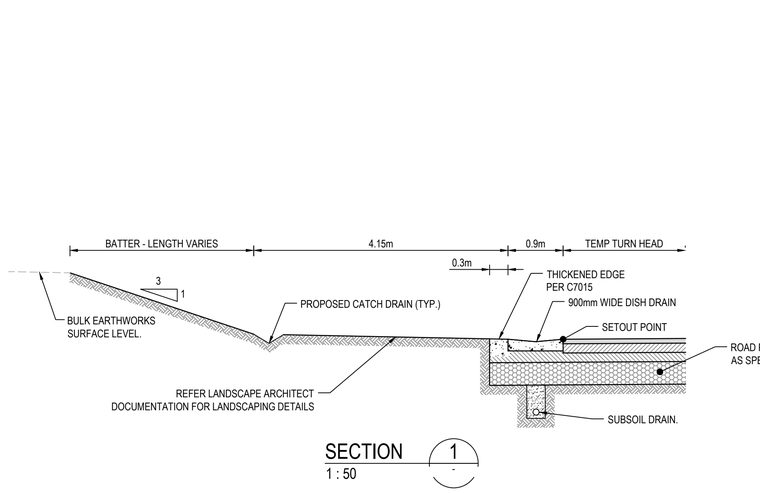
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent

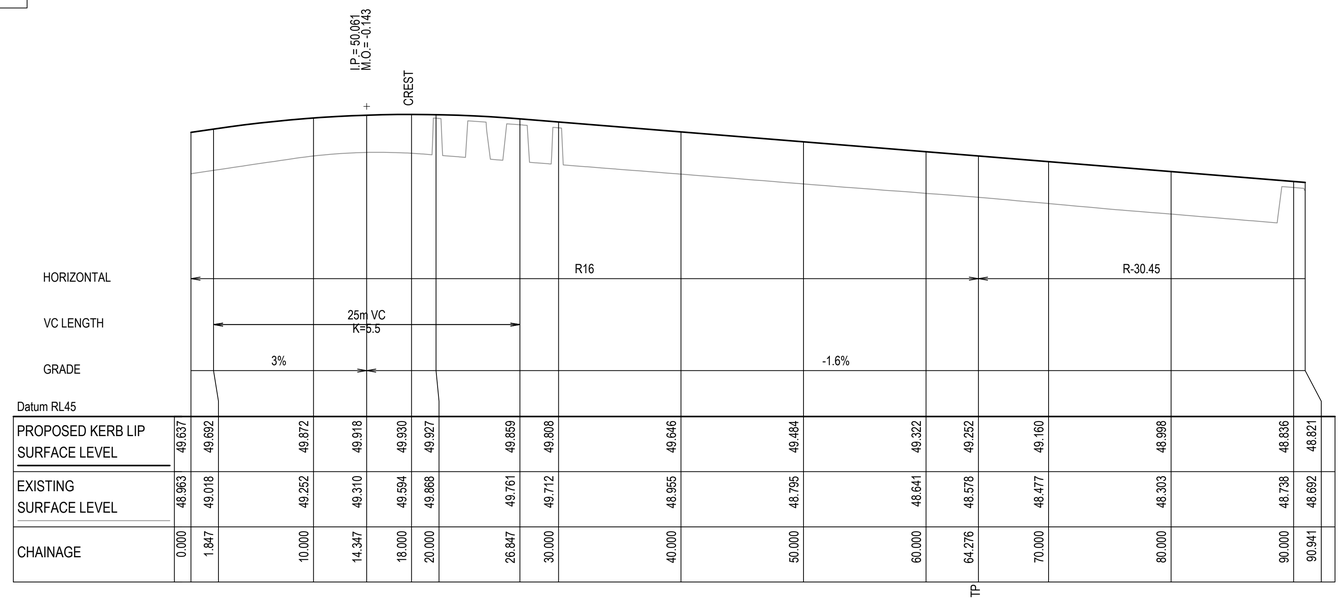


INTERSECTION LAYOUT PLAN
SCALE 1:250

LIP OF KERB - (KR11) HORIZONTAL POINTS							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	295210.459	6253140.895	78°37'11.41"			
IP 2	16.069	295235.121	6253145.859		R = 16.000	32.138	115°05'10.94"
CC	32.138	295229.160	6253121.419	193°42'22.35"			
IP 3	48.207	295223.200	6253096.978		R = 16.000	32.138	115°05'10.94"
CC	64.276	295203.592	6253112.739	308°47'33.28"			
IP 4	77.608	295192.481	6253121.670		R = -30.450	26.664	50°10'20.43"
IP 5	90.941	295178.507	6253118.857	258°37'12.85"			



TYPICAL SECTION - TURN HEAD



KR11 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn: JB/MH
Designed: JB/MH
Checked: DS
Approved: DS

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: INTERSECTION PLAN
SHEET 1

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 CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C7121
Issue: 1

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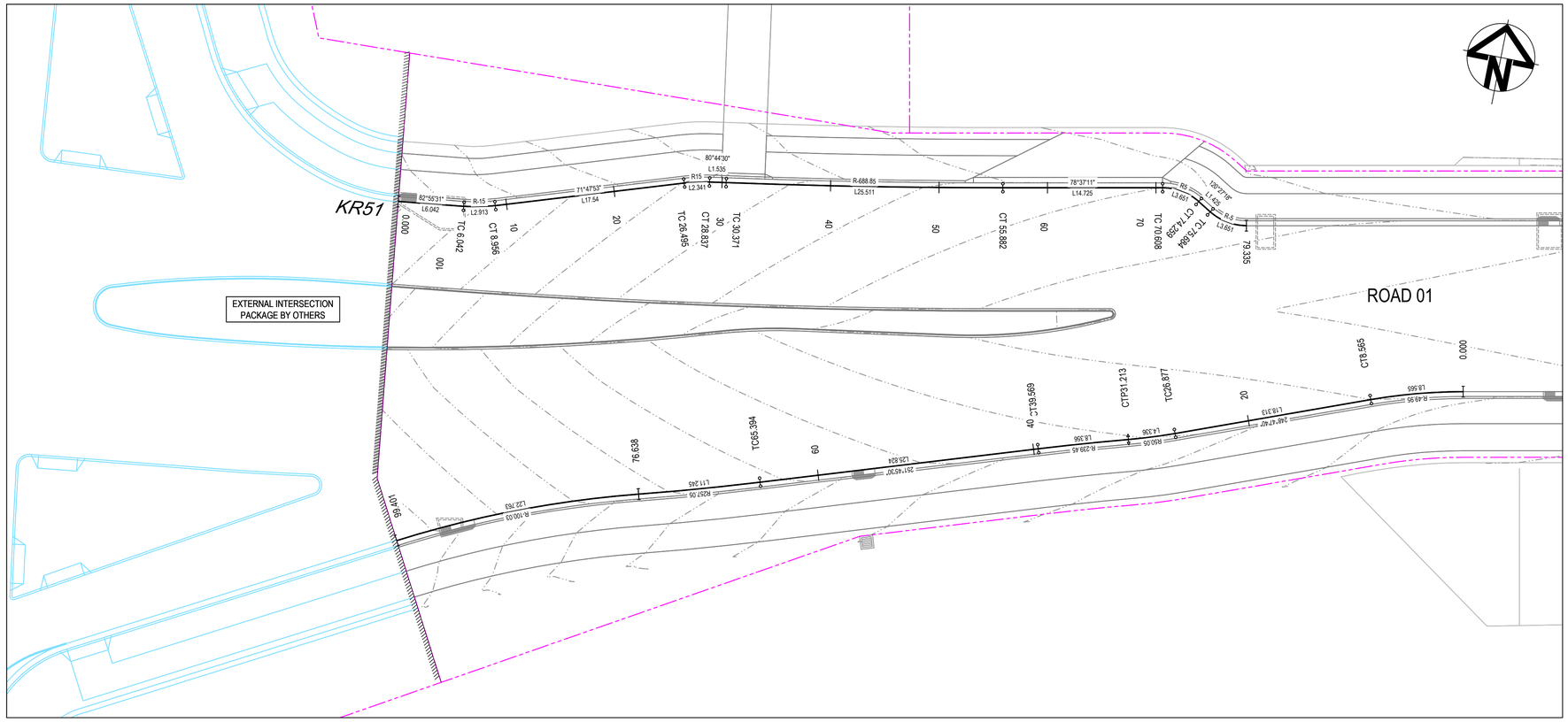
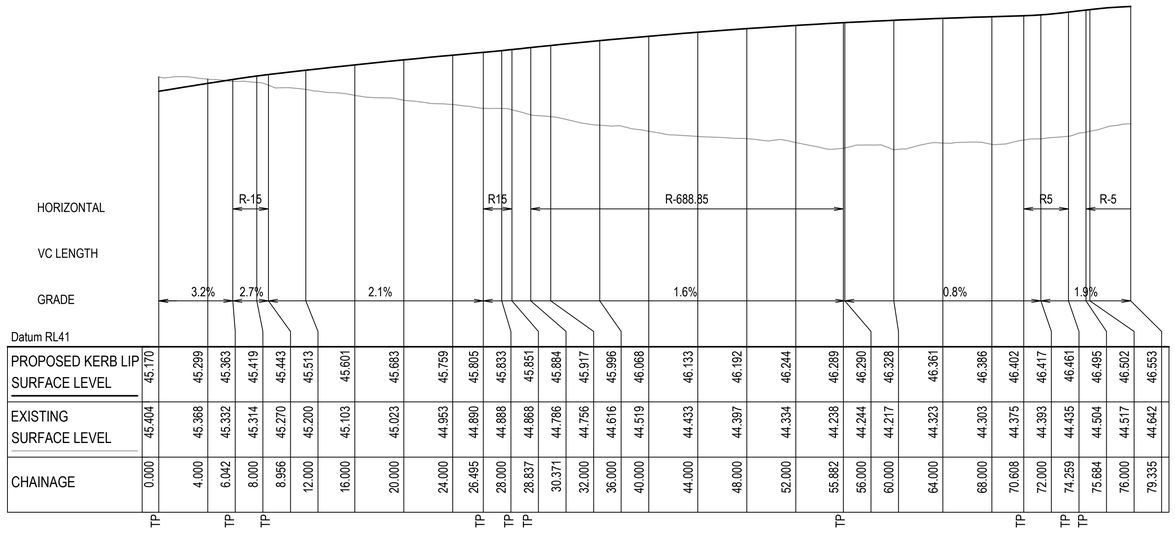


PLAN
1 : 250

LIP OF KERB - (KR51) HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	294750.603	6253050.620	82°55'31.24"			
TC	6.042	294756.599	6253051.364	82°55'31.24"			
IP 2	7.499	294758.049	6253051.544		R = -15.000	2.913	11°07'38.63"
CT	8.956	294759.438	6253052.001	71°47'52.61"			
TC	26.495	294776.099	6253057.479	71°47'52.61"			
IP 3	27.666	294777.214	6253057.846		R = 15.000	2.341	8°56'37.73"
CT	28.837	294778.372	6253058.035	80°44'30.34"			
TC	30.371	294779.886	6253058.281	80°44'30.34"			
IP 4	43.127	294792.477	6253060.334		R = -688.850	25.511	2°07'18.91"
CT	55.882	294804.983	6253062.851	78°37'11.43"			
TC	70.608	294819.419	6253065.757	78°37'11.43"			
IP 5	72.433	294821.293	6253066.134		R = 5.000	3.651	41°50'06.56"
CT	74.259	294822.940	6253065.165	120°27'17.99"			
TC	75.684	294824.169	6253064.443	120°27'17.99"			
IP 6	77.509	294825.816	6253063.474		R = -5.000	3.651	41°50'20.71"
IP 7	79.335	294827.690	6253063.851	78°36'57.28"			



KR51 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
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Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: INTERSECTION PLAN
SHEET 2

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

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7122
Issue: 1

100mm on Original

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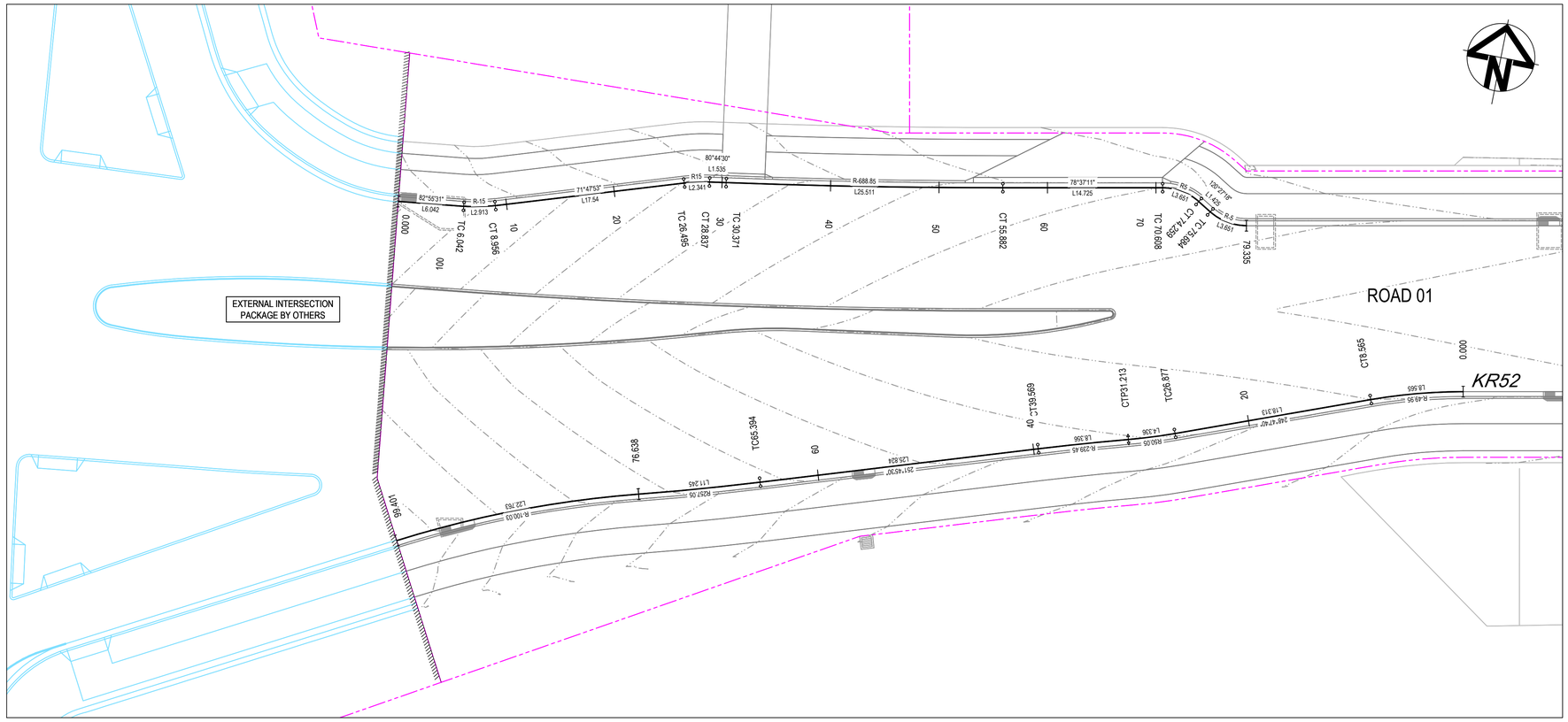
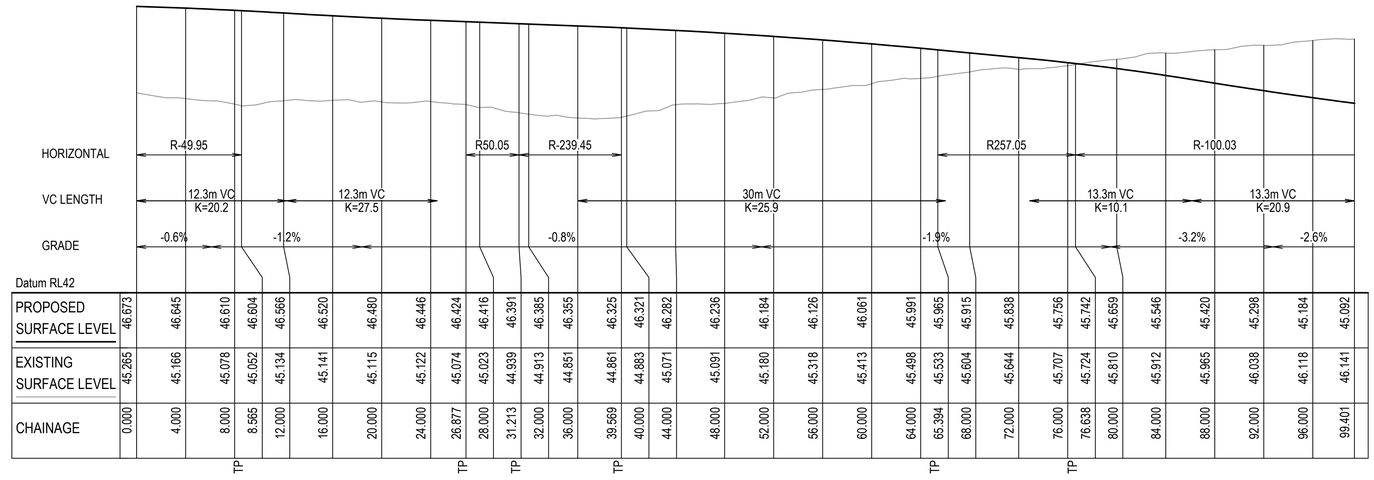


PLAN
1 : 250

LIP OF KERB - (KR52) HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	294850.297	6253052.795	258°37'07.52"			
IP 2	4.282	294846.089	6253051.948		R = -49.950	8.565	9°49'27.33"
CT	8.565	294842.086	6253050.395	248°47'40.20"			
TC	26.877	294825.014	6253043.771	248°47'40.20"			
IP 3	29.045	294822.991	6253042.986		R = 50.050	4.336	4°57'48.31"
CC	31.213	294820.909	6253042.380	253°45'28.51"			
IP 4	35.391	294816.897	6253041.211		R = -239.450	8.356	1°59'58.18"
CT	39.569	294812.928	6253039.903	251°45'30.32"			
TC	65.394	294788.402	6253031.819	251°45'30.32"			
IP 5	71.016	294783.061	6253030.059		R = 257.050	11.245	2°30'23.16"
CC	76.638	294777.649	6253028.534	254°15'53.48"			
IP 6	88.020	294766.646	6253025.434		R = -100.030	22.763	13°02'17.31"
IP 7	99.401	294756.627	6253019.932	241°13'36.17"			



KR52 LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
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Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project
ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
INTERSECTION PLAN
SHEET 3

Civil Engineers and Project Managers
at&l
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ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7123
Issue: 1

100mm on Original

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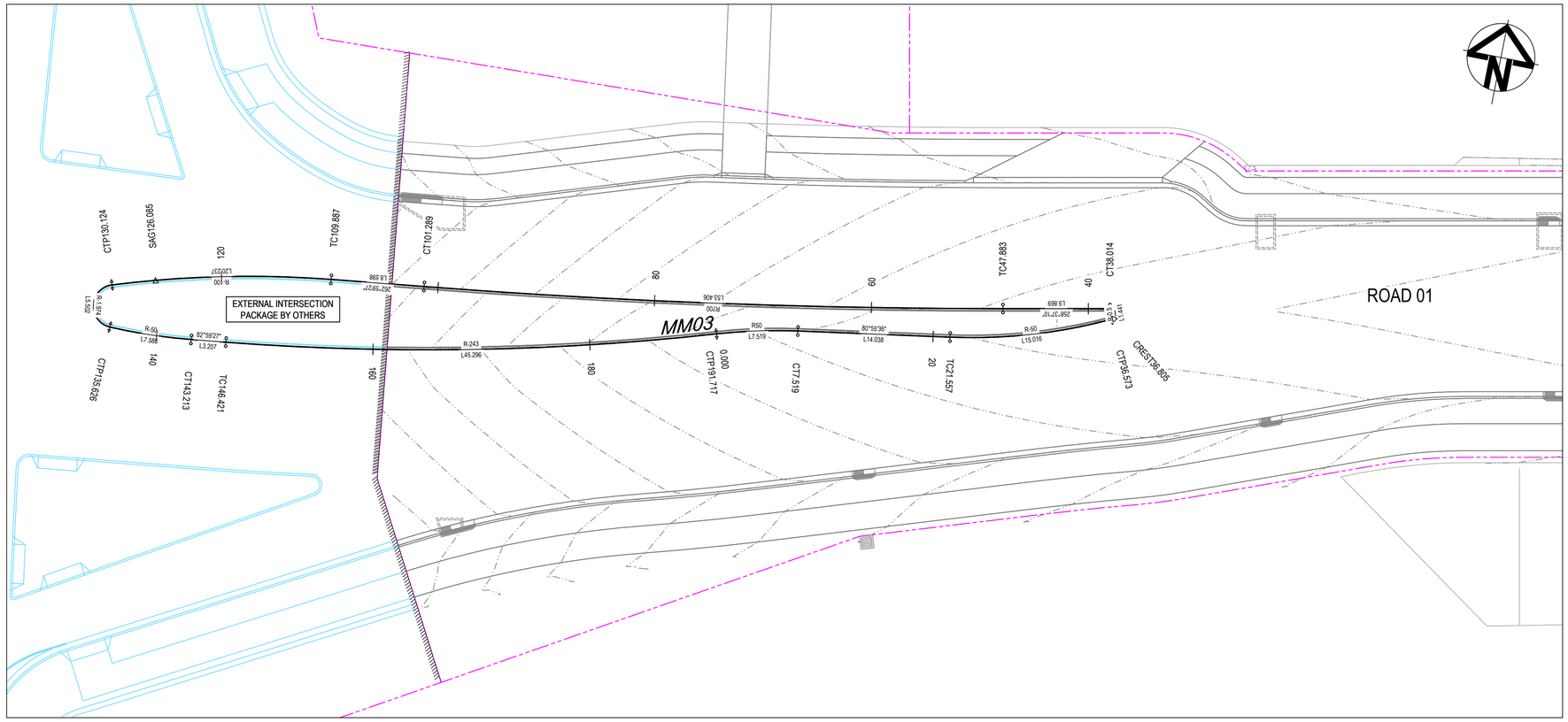

KERB INVERT - (MM03) HORIZONTAL POINTS (CLOSED)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	294781.758	6253044.435				
IP 2	3.759	294785.347	6253045.580		R = 50.000	7.519	8°36'57.85"
CT	7.519	294789.066	6253046.174	80°55'36.42"			
TC	21.557	294802.929	6253048.388	80°55'36.42"			
IP 3	29.065	294810.399	6253049.581		R = -50.000	15.016	17°12'25.05"
CC	36.573	294817.182	6253052.930	63°43'11.38"			
IP 4	36.934	294817.576	6253053.124		R = -0.500	0.720	82°33'00.52"
CT	37.294	294817.434	6253053.540	341°10'10.85"			
IP 5	37.654	294817.292	6253053.955		R = -0.500	0.720	82°33'00.52"
CT	38.014	294816.862	6253053.868	258°37'10.33"			
TC	47.883	294807.187	6253051.921	258°37'10.32"			
IP 6	74.586	294780.996	6253046.649		R = 700.000	53.406	4°22'16.88"
CT	101.289	294754.480	6253043.389	262°59'27.21"			
TC	109.887	294745.947	6253042.340	262°59'27.21"			
IP 7	120.005	294735.869	6253041.101		R = -100.000	20.237	11°35'41.35"
CC	130.124	294726.247	6253037.862	251°23'45.86"			
IP 8	131.499	294724.681	6253037.335		R = -1.974	2.751	79°51'18.62"
CC	132.875	294724.924	6253035.701	171°32'27.24"			
IP 9	134.250	294725.167	6253034.067		R = -1.974	2.751	79°51'18.62"
CC	135.626	294726.819	6253034.018	91°41'08.63"			
IP 10	139.420	294730.618	6253033.907		R = -50.000	7.588	8°41'41.42"
CT	143.213	294734.391	6253034.370	82°59'27.21"			
TC	146.421	294737.574	6253034.762	82°59'27.21"			
IP 11	169.069	294760.118	6253037.534		R = -243.000	45.296	10°40'48.64"

PENRITH CITY COUNCIL
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Subdivision Works Certificate: EA22/0040
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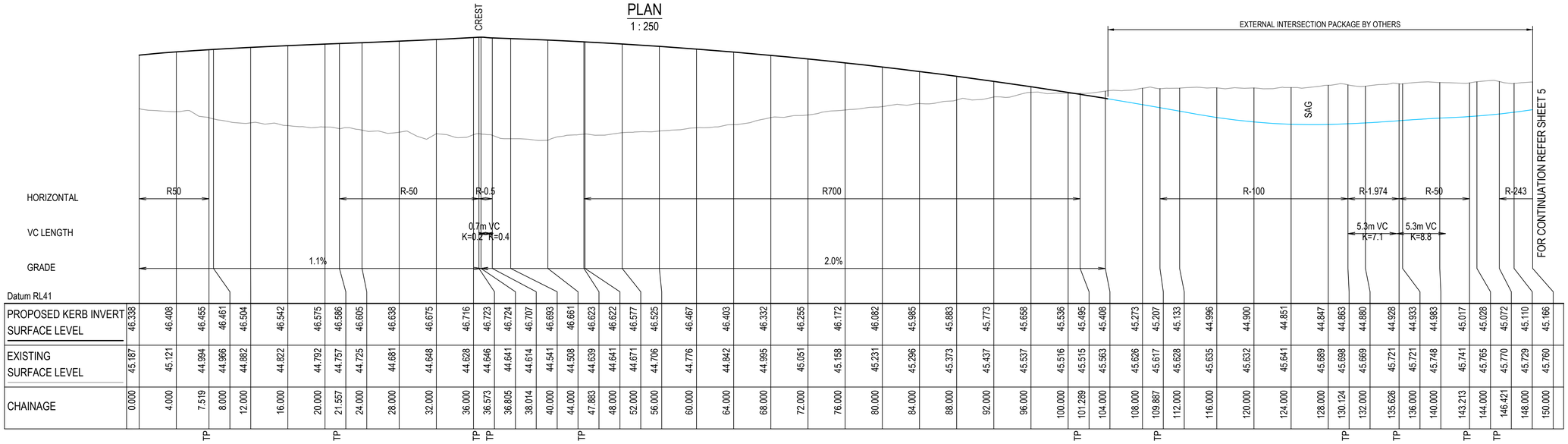
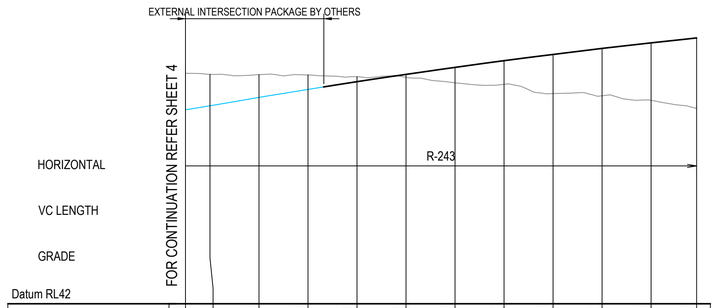
PLAN
1 : 250



Datum RL41

| | | | |



PROPOSED SURFACE LEVEL	45.166	45.231	45.368	45.499	45.624	45.744	45.858	45.967	46.070	46.167	46.258	46.338
EXISTING SURFACE LEVEL	45.760	45.744	45.740	45.737	45.707	45.695	45.607	45.582	45.431	45.395	45.321	45.187
CHAINAGE	150.000	152.000	156.000	160.000	164.000	168.000	172.000	176.000	180.000	184.000	188.000	191.717

MM03 LONGITUDINAL SECTION

SCALE 1:250 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn: JB/MH
Designed: JB/MH
Checked: DS
Approved: DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

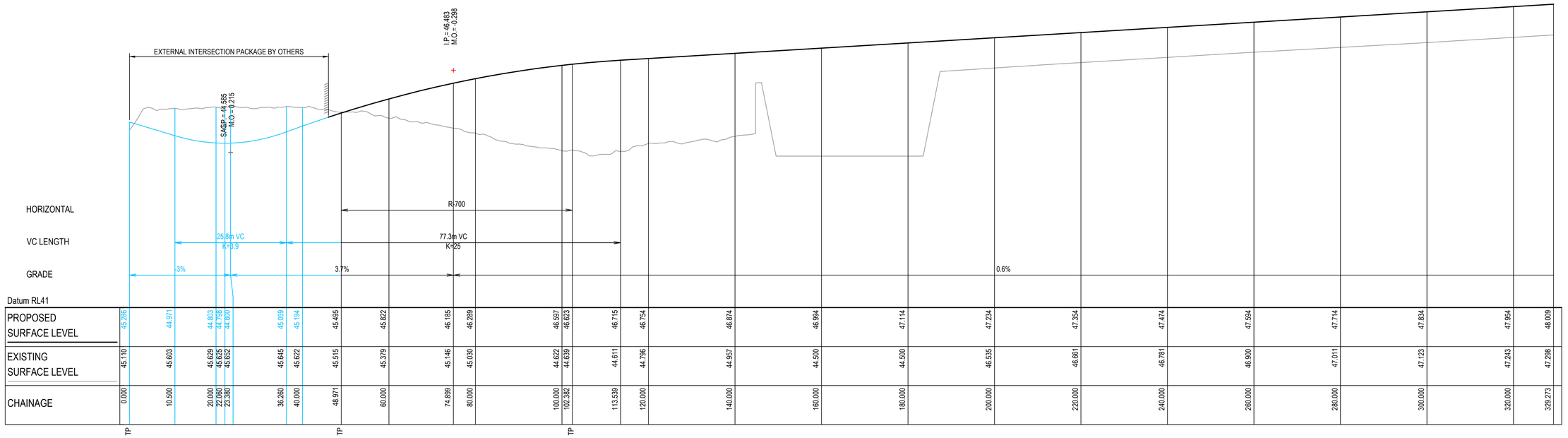
Title: INTERSECTION PLAN
SHEET 5

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 CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7125
Issue: 1

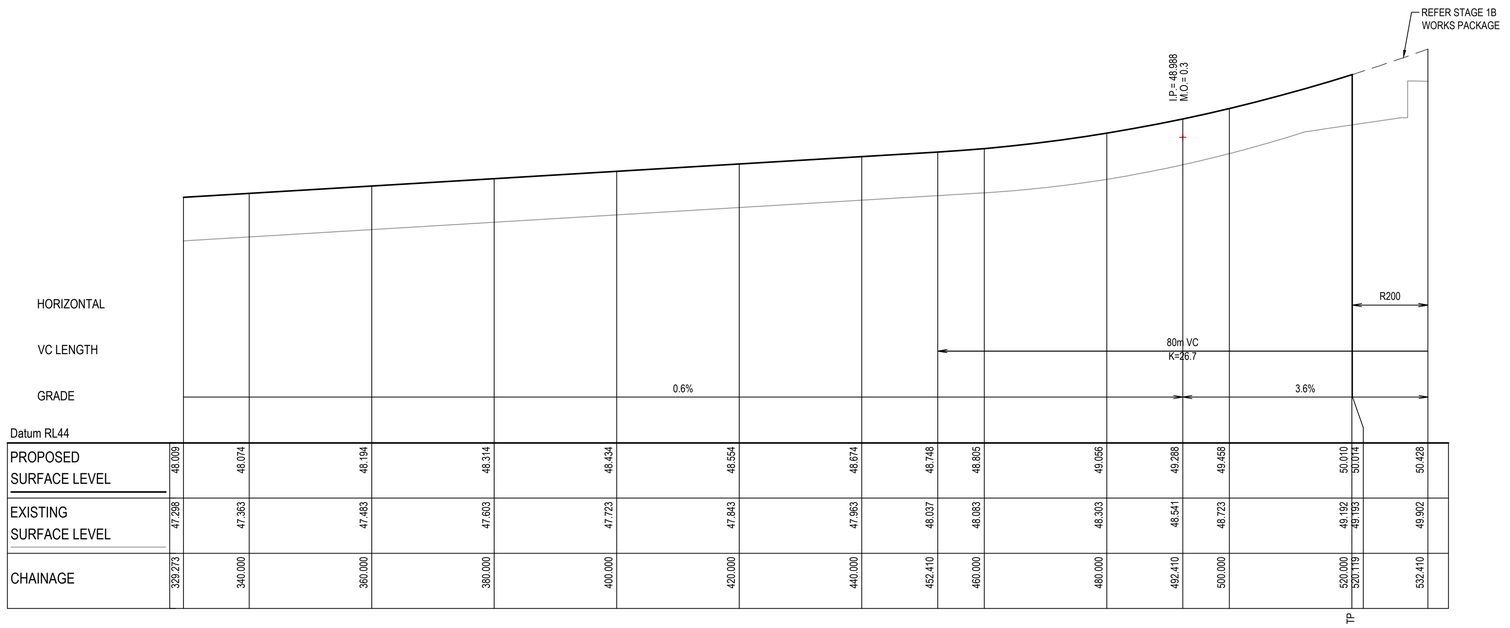
100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A CC\18-596-C7125.dwg



ROAD 01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.



ROAD 01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.

PENRITH CITY COUNCIL
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Issue	Description	Date
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A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales
0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales	1:500 (H) 1:50 (V)
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
ROAD 01
LONGITUDINAL SECTION
SHEET 1

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Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C7131 — Issue: 1

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PENRITH CITY COUNCIL
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Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
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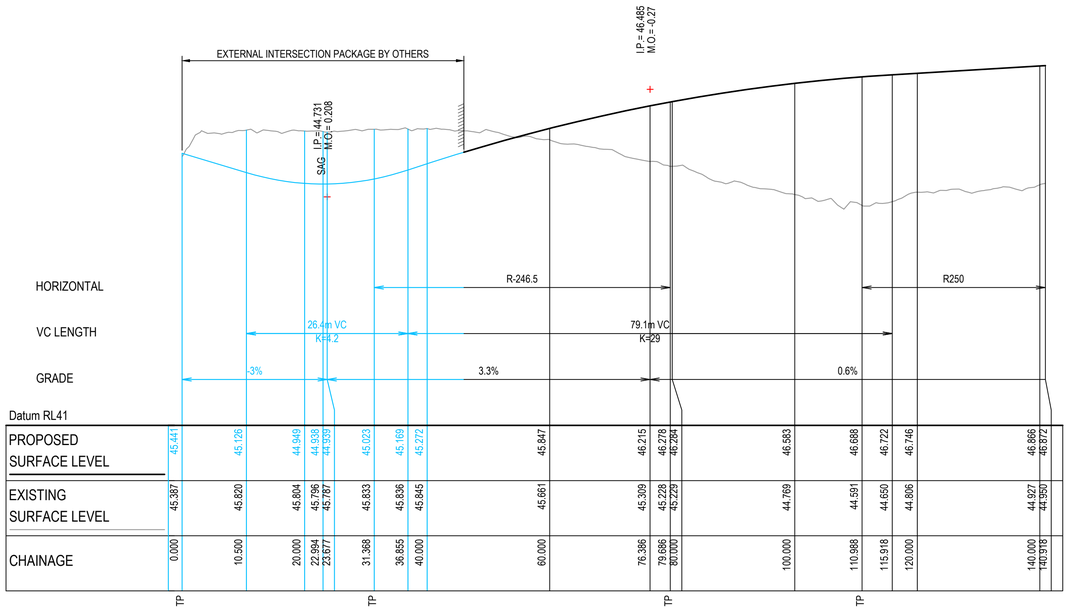

ROAD 101 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:50 VERT.

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales

0 1 2 3 4 5m
1 : 50 @ A1 1 : 100 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales	1:500 (H) 1:50 (V)
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	AT
Approved	DS

GDA2020

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: ROAD 101
LONGITUDINAL SECTION
SHEET 1

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Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7132
Issue: 1

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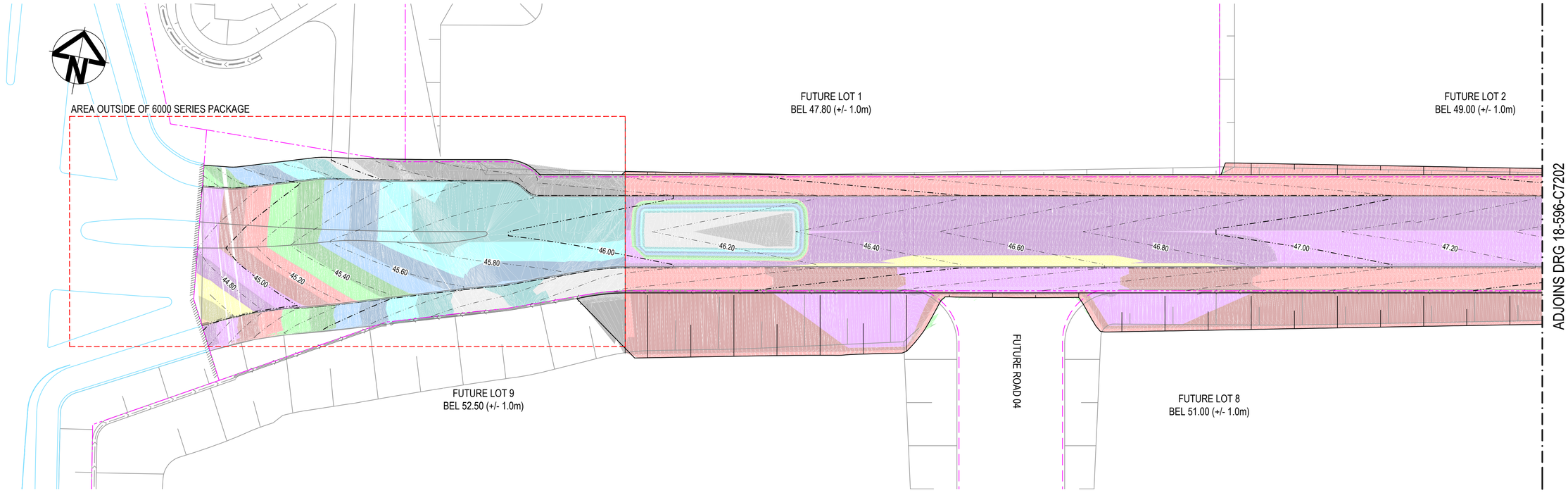

PENRITH CITY COUNCIL
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EARTHWORK VOLUMES

	TOPSOIL STRIP VOLUME (m3)	NET CUT VOLUME (m3)	NET FILL VOLUME (m3)	BALANCED VOLUME (m3)
AREA INSIDE OF 6000 SERIES PACKAGE	-	-6835	718	-6117
AREA OUTSIDE OF 6000 SERIES PACKAGE	601 (APPROX.)	-356	3700	3344
COMBINED	601 (APPROX.)	-7191	4418	-3273

NOTES

1. EARTHWORKS VOLUMES ARE CALCULATED BETWEEN 6000 SERIES DRAWINGS BULK EARTHWORKS SURFACE (REFER TO 6000 SERIES DRAWINGS) AND ASSUMED PAVEMENT SUBGRADE LEVEL. FOR AREA OUTSIDE OF 6000 SERIES COVERD AREA, VOLUMES ARE CALCULATED BETWEEN THE STRIPPED SURVEY SURFACE (WITH 150mm TOPSOIL STRIPPED) AND ASSUMED PAVEMENT SUBGRADE LEVEL.
2. VOLUMES BASED ON ASSUMED PAVEMENT BOXOUT OF 740mm DEPTH.
3. EARTHWORKS VOLUMES DENOTED ARE APPROXIMATE ONLY AND HAVE BEEN CALCULATED BETWEEN THE EARTHWORKS SURFACE LEVEL AND THE EXISTING SURFACE LEVEL. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
   - BULKING FACTORS OF REMOVED CUT
   - REMOVAL AND\OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
   - PROPOSED LANDSCAPING
   - STORMWATER AND UTILITIES TRENCHING
   - ANY PROPOSED GROUND REMEDIATION WORKS BELOW FBEL (IF REQUIRED)

CUT\FILL DEPTH RANGE LEGEND

Lower_value		Upper_value	Colour
-2.20	to	-2.00 m	
-2.00	to	-1.75 m	
-1.75	to	-1.50 m	
-1.50	to	-1.25 m	
-1.25	to	-1.00 m	
-1.00	to	-0.75 m	
-0.75	to	-0.50 m	
-0.50	to	-0.25 m	
-0.25	to	0.00 m	
0.00	to	0.25 m	
0.25	to	0.50 m	
0.50	to	0.75 m	
0.75	to	1.00 m	
1.00	to	1.25 m	
1.25	to	1.50 m	
1.50	to	1.75 m	
1.75	to	2.00 m	
2.00	to	2.80 m	

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales: 1:500
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
BULK EARTHWORKS
CUT/FILL PLAN
SHEET 1

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
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info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7201
Issue: 1

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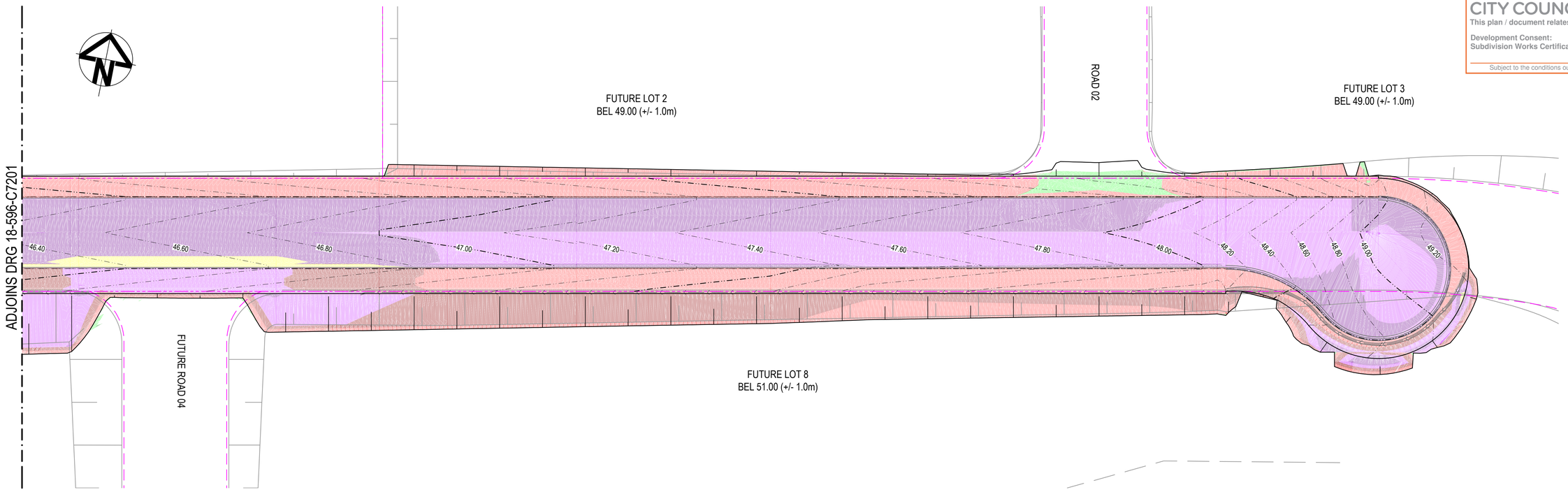

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to

Development Consent: SSD-10448-MOD-1

Subdivision Works Certificate: EA22/0040

Subject to the conditions outlined in the consent

CUT\FILL DEPTH RANGE LEGEND

Lower_value		Upper_value	Colour
-2.20	to	-2.00 m	
-2.00	to	-1.75 m	
-1.75	to	-1.50 m	
-1.50	to	-1.25 m	
-1.25	to	-1.00 m	
-1.00	to	-0.75 m	
-0.75	to	-0.50 m	
-0.50	to	-0.25 m	
-0.25	to	0.00 m	
0.00	to	0.25 m	
0.25	to	0.50 m	
0.50	to	0.75 m	
0.75	to	1.00 m	
1.00	to	1.25 m	
1.25	to	1.50 m	
1.50	to	1.75 m	
1.75	to	2.00 m	
2.00	to	2.80 m	

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales: 1:500

Grid: MGA2020

Height Datum: AHD

GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: BULK EARTHWORKS
CUT/FILL PLAN
SHEET 2

Civil Engineers and Project Managers

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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7202

Issue: 1

100mm on Original

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LEGEND

LONGITUDINAL LINES

EDGE LINES

E4 — E4

BARRIER LINES

BB — BB

LANE LINES

L1 — L1

CLEARWAY LINES

C3 — C3

CONTINUITY LINES

C1 — C1

PAVEMENT ARROWS

AR3(L)

AR3(R)

L1 LINEMARKING TYPE

NO STOPPING R5-400 A PROPOSED SIGN

PROPOSED SIGN POST LOCATION

PAVEMENT MARKING NOTES

1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742 (2017).
2. ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE TfNSW DELINEATION MANUAL.
3. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.
4. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
5. PROVIDE RETRO-REFLECTORISED PAVEMENT MARKERS TO COUNCIL AND TfNSW REQUIREMENTS.
6. ALL LINEMARKING TO BE WHITE IN COLOUR WITH THE EXCEPTION OF C2 AND C3 LINES AND LINEMARKING ON CONCRETE PAVEMENTS WHICH ARE TO BE YELLOW.
7. ALL LINEMARKING SHALL BE IN ACCORDANCE WITH THE APPROVED ENGINEERING DRAWINGS ENDORSED BY THE LOCAL TRAFFIC COMMITTEE, AND SHALL BE INSTALLED PRIOR TO THE ISSUE OF A SUBDIVISION CERTIFICATE.
8. ALL AREAS TO BE LINEMARKED SHALL BE DRY AND SWEPT PRIOR TO THE UNDERTAKING OF THE WORKS.
9. ON THE FIRST SACRIFICIAL AC LAYER (IF APPLICABLE TO THE PAVEMENT DESIGN), WATERBORNE PAVEMENT WITH DROP-ON GLASS BEADING, TO THE REQUIREMENT OF TfNSW SPECIFICATION 3353, SHALL BE USED.
10. UPON LAYING THE FINAL AC LAYER, ALL LINEMARKING SHALL BE REINSTATED IN NON-SLIP, THERMOPLASTIC PAINT.

PENRITH CITY COUNCIL

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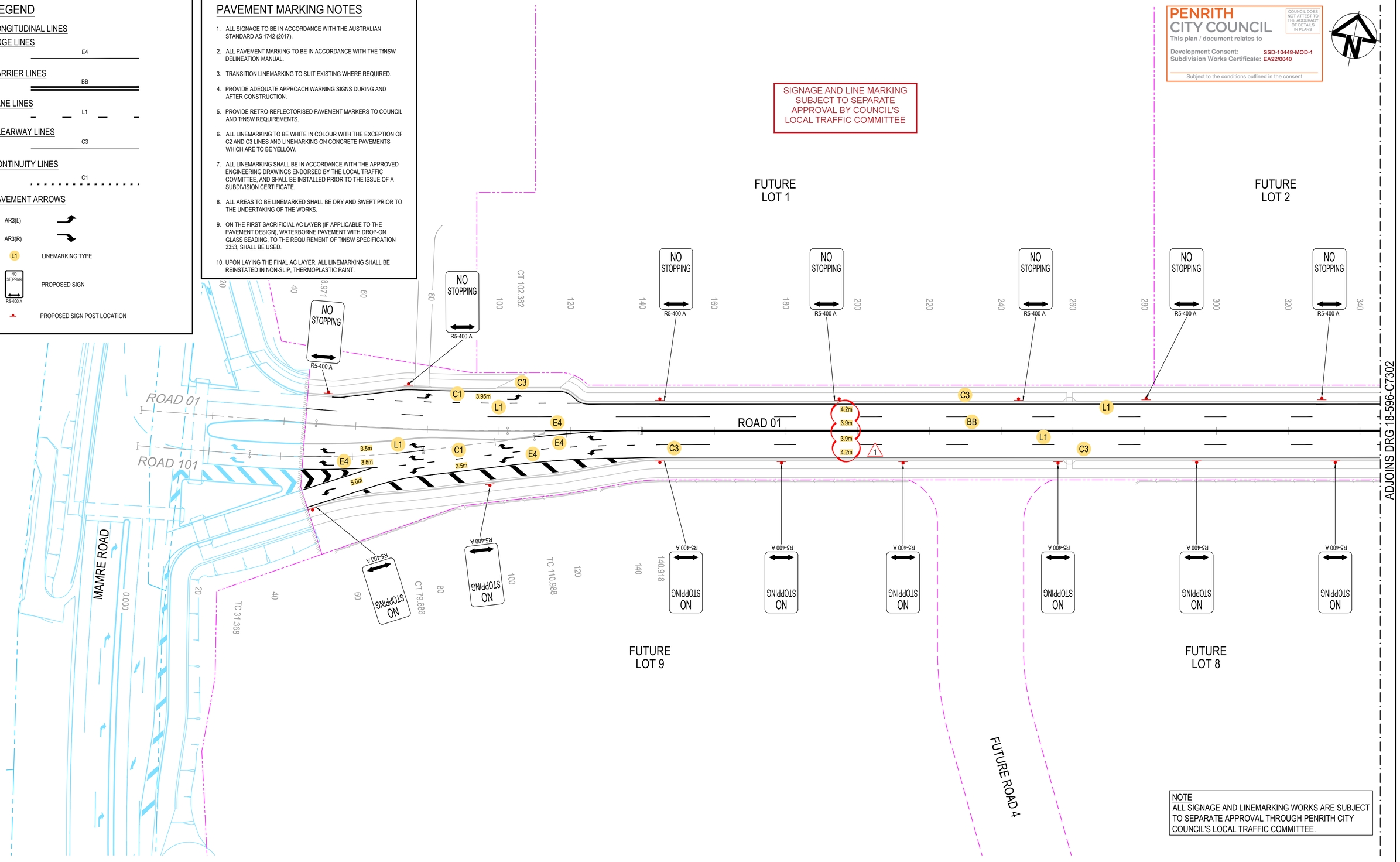
SIGNAGE AND LINE MARKING SUBJECT TO SEPARATE APPROVAL BY COUNCIL'S LOCAL TRAFFIC COMMITTEE



NOTE
ALL SIGNAGE AND LINEMARKING WORKS ARE SUBJECT TO SEPARATE APPROVAL THROUGH PENRITH CITY COUNCIL'S LOCAL TRAFFIC COMMITTEE.

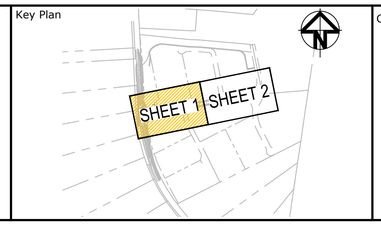
Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

mirvac

Scales	1:500	Drawn	JB/MH
		Designed	JB/MH
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	DS

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

PAVEMENT MARKING AND SIGNPOSTING SHEET 1

Civil Engineers and Project Managers

at&l
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North Sydney NSW 2060
ABN 96 130 882 405
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION — A1

Project - Drawing No.: 18-596-C7301 — Issue: 1

100mm on Original

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SIGNAGE AND LINE MARKING SUBJECT TO SEPARATE APPROVAL BY COUNCIL'S LOCAL TRAFFIC COMMITTEE

PENRITH CITY COUNCIL
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FUTURE LOT 2

ROAD 02

FUTURE LOT 3

NO STOPPING R5-400 A

360 380 400 420 440 460 480 500 520 TC 520.119

ADJOINS DRG 18-596-C7301

L1 BB L1 ROAD 01 C3 C3 C3

4.2m 3.9m 3.9m 4.2m

1

NO STOPPING R5-400 A

FUTURE LOT 8

ROAD 03

FUTURE LOT 4

NOTE
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100mm on Original

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

Key Plan
SHEET 1 SHEET 2

Client
mirvac

Scales 1:500
Drawn JB/MH
Designed JB/MH
Grid MGA2020
Checked DS
Height Datum AHD
Approved DS

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
PAVEMENT MARKING AND SIGNPOSTING SHEET 2

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
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Status FOR CONSTRUCTION
A1
Project - Drawing No. 18-596-C7302
Issue 1

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PAVEMENT LEGEND

ROAD PAVEMENT 1
70mm THICKNESS AC14 (C450, E=2700 Mpa) ON
7mm SPRAYED SEAL (CL170)
150mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

CUL-DE-SAC PAVEMENT
75mm THICKNESS AC14 A15E(C450, E=2000 Mpa) ON
7mm SPRAYED SEAL (CL170)
150mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

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

DRIVEWAY PAVEMENT
225mm THICKNESS CONCRETE (N32, 2 LAYERS OF SL82 MESH 40 TOP COVER ON
30mm THICKNESS SAND BEDDING OR GRANULAR BASE ON COMPACTED SUBGRADE.
(REFER TO PENRITH CITY COUNCIL STANDARD DWG SD1004 FOR DETAILS).
DRIVEWAY TO BE DOWELLED INTO THE BACK OF THE LAYBACK AND ADJOINING FOOTPATH WITH GALVANISED 20mm DOWELS (STARTING 500mm FROM EACH SIDE THEN AT 900mm CENTRES). LAYBACKS SHALL BE POURED SEPARATELY TO THE CROSSING.

LANDSCAPED TREATMENT
REFER LANDSCAPE ARCHITECT DOCUMENTATION FOR DETAILS.

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

GRANULAR FOOTPATH PAVEMENT
75mm GRAVEL WEARING COURSE 10-20mm GRADE (AVERAGE 15mm) GRAVEL ROLLED AND COMPACTED TO 98% SDD ON
150mm COMPACTED FINE CRUSHED ROCK (DG20) OR APPROVED EQUIVALENT
DGB20 TO BE LIME STABILISED. LIME SHALL BE HYDRATED LIME ADDITIVE. APPLY 3-5% LIME AS PERCENTAGE OF SOIL DRY WEIGHT. LIME SHOULD BE THOROUGHLY AND EVENLY MIXED THROUGH THE FULL MATERIAL DEPTH.

RAISED MEDIAN INFILL
120mm THICKNESS 25MPa CONCRETE
(1 LAYER SL72 MESH, CENTRAL) WITH BROOM FINISH (SURFACE OF COMPACTED UNBOUND GRANULAR MATERIAL MUST BE MOISTENED PRIOR TO THE PLACING OF CONCRETE TO MINIMISE MOISTURE LOSS) ON
240mm THICKNESS UNBOUND BASECOURSE (R71, TfNSW3051, E=350MPa) ON
150mm THICKNESS UNBOUND SUB-BASECOURSE (R71, TfNSW3051, E=250MPa) ON
370mm THICKNESS SELECT MATERIAL ZONE (R44, CBR 15%) ON COMPACTED SUBGRADE MIN CBR 3%. IF SUBGRADE < 3% - MIN 150mm STABILISED SUBGRADE (3-4% LIME BY MASS).

1

REINFORCED LANDSCAPED BATTER
ADDITIONAL BATTER STABILISATION TO BE CONFIRMED IN CONSULTATION WITH GEOTECHNICAL ENGINEER, AT&L AND ECOLOGIST/LANDSCAPE ARCHITECT. FINAL DETAIL TO BE PROVIDED TO PENRITH CITY COUNCIL FOR APPROVAL PRIOR TO IMPLEMENTATION.

PAVEMENT DESIGN CRITERIA:

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

NOTES:

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

1

ADJOINS DRG 18-596-C7323

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

FUTURE LOT 1

FUTURE LOT 2

REFER TO DWG C7017 FOR PAVEMENT INTERFACE DETAIL

ROAD 01

FUTURE LOT 9

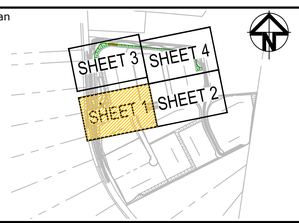
FUTURE LOT 8

FUTURE ROAD 4

ADJOINS DRG 18-596-C7322

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

Key Plan


Client: mirvac

Scales: 1:500
Grid: MGA2020
Height Datum: AHD

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

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GDA2020

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: PAVEMENT PLAN
SHEET 1

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 CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7321
Issue: 1

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A CC\18-596-C7321.dwg

ADJOINS DRG 18-596-C7324

ADJOINS DRG 18-596-C7321

FUTURE LOT 2

ROAD 02

FUTURE LOT 3

ROAD 01

FUTURE LOT 8

ROAD 03

FUTURE LOT 4

PENRITH CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to

Development Consent: SSD-10448-MOD-1

Subdivision Works Certificate: EA22/0040

Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

SHEET 3 SHEET 4 SHEET 1 SHEET 2

Client

mirvac

Scales 1:500

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS
Grid	MGA2020
Height Datum	AHD

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GDA2020

Project

ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

PAVEMENT PLAN
SHEET 2

Civil Engineers and Project Managers

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

Status FOR CONSTRUCTION

A1

Project - Drawing No. 18-596-C7322

Issue 1

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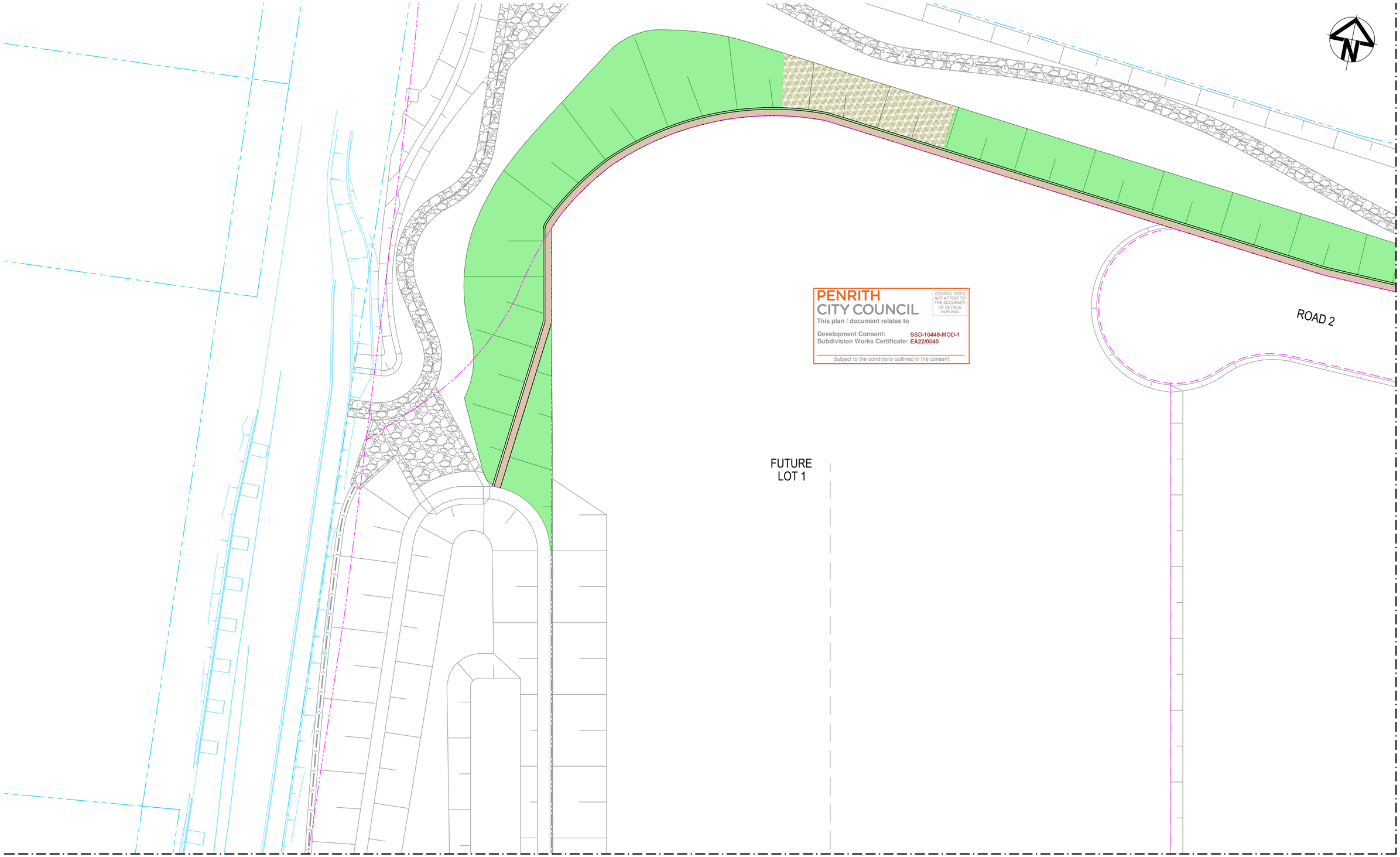


PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

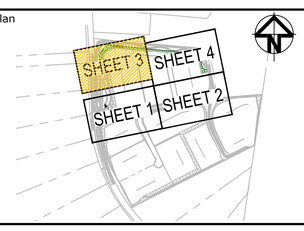
100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

mirvac

Scales		Drawn	JB/MH
	1:500	Designed	JB/MH
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	DS

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GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
PAVEMENT PLAN
SHEET 3

Civil Engineers and Project Managers
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Level 7, 153 Walker Street
North Sydney NSW 2060
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7323
Issue: 1

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This plan / document relates to

Development Consent: SSD-10448-MOD-1

Subdivision Works Certificate: EA22/0040

Subject to the conditions outlined in the consent

ADJOINS DRG 18-596-C7323

ROAD 02

FUTURE LOT 2

ROAD 02

FUTURE LOT 3

ADJOINS DRG 18-596-C7322

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

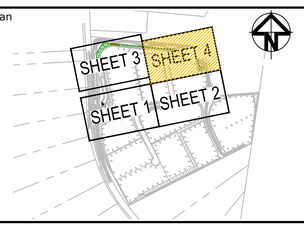
100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

mirvac

Scales		Drawn	JB/MH
	1:500	Designed	JB/MH
Grid	MGA2020	Checked	DS
Height Datum	AHD	Approved	DS

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Project

ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title

PAVEMENT PLAN
SHEET 4

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
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info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7324

Issue: 1

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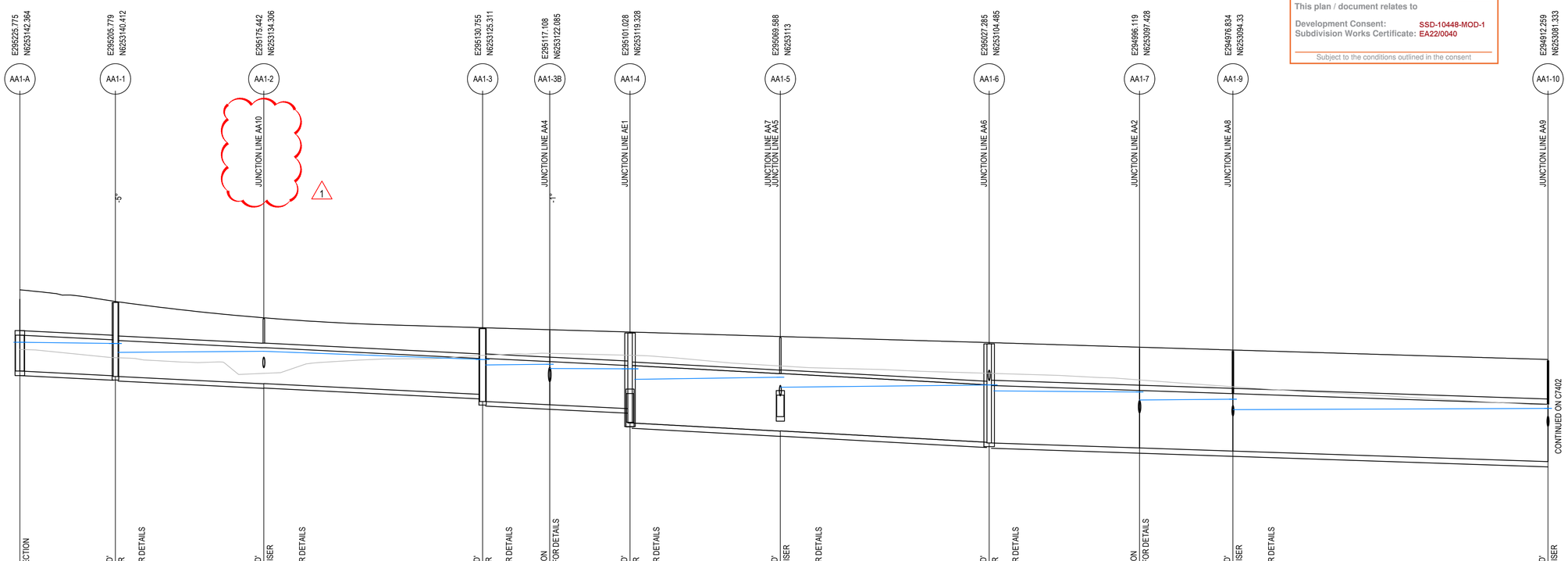
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent



| | | |

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This plan / document relates to

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Subdivision Works Certificate: EA22/0040

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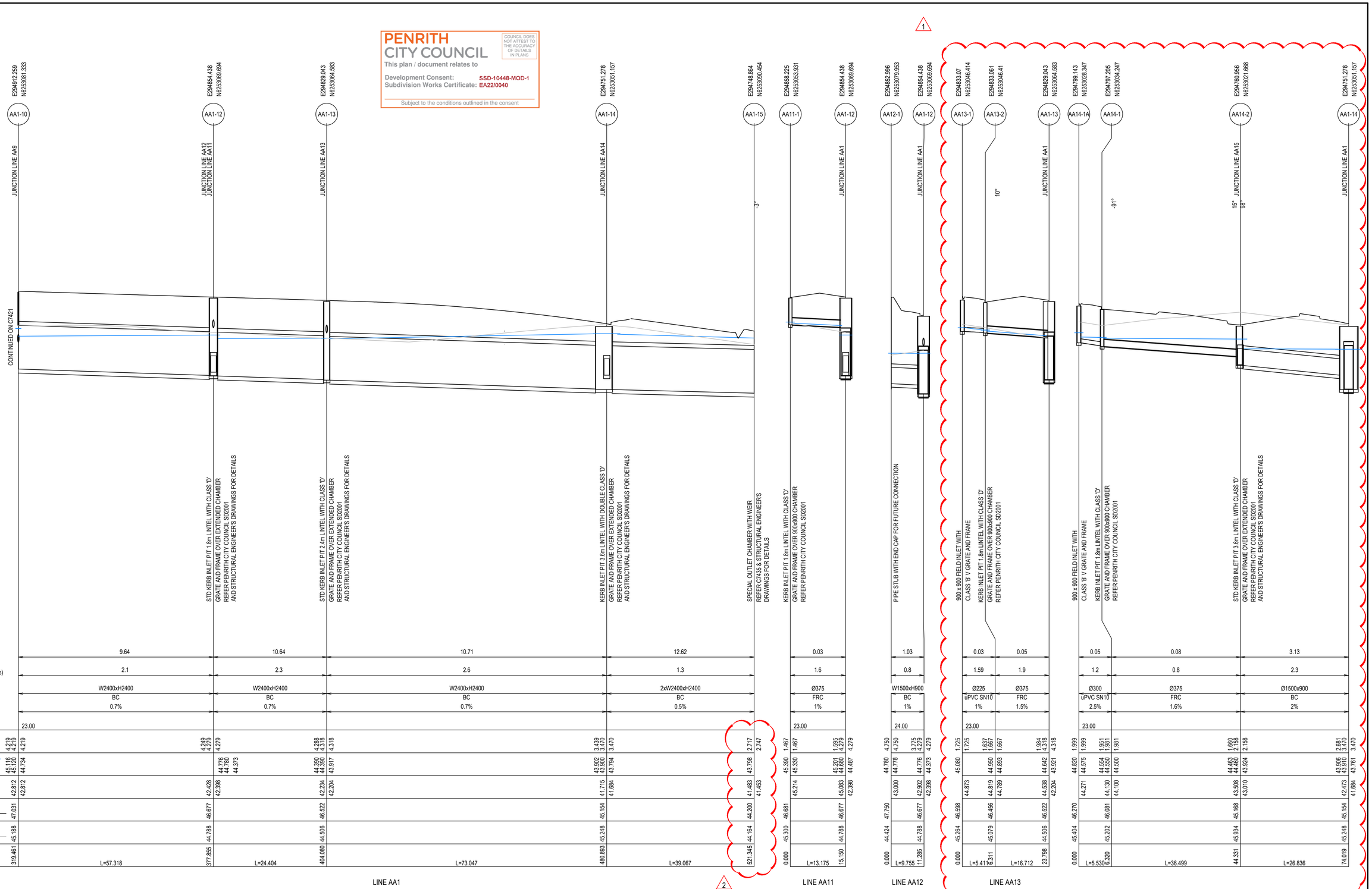

Issue	Description	Date
2	ISSUED FOR CONSTRUCTION	13-10-22
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

VERTICAL 0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

HORIZONTAL 0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales: 1:500 (H) 1:100 (V)
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 2

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North Sydney NSW 2060
ABN 96 130 882 405
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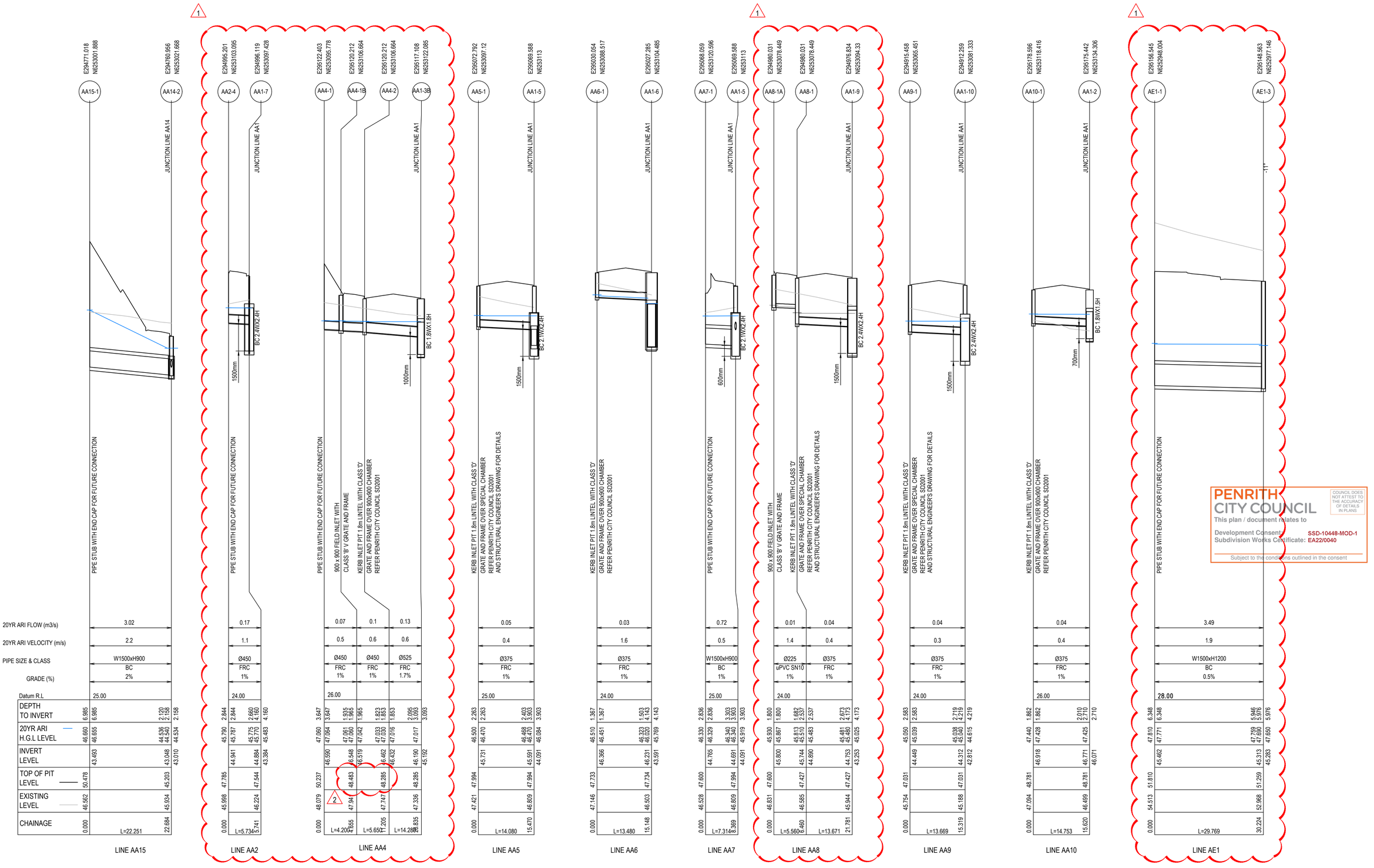
info@atl.net.au

Status: FOR CONSTRUCTION
Issue: A1

Project - Drawing No.: 18-596-C7402
Issue: 2

100mm on Original

F:\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A CC\18-596-C7402.dwg



PENRITH CITY COUNCIL
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This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
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Issue	Description	Date
2	ISSUED FOR CONSTRUCTION	17-10-22
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales
VERTICAL 0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3
HORIZONTAL 0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client: mirvac

Scales: 1:500 (H) 1:100 (V)
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 3

Civil Engineers and Project Managers
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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 CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C7403
Issue: 2

100mm on Original

\\ATLSERVER2\Projects\18-596 Mamre Road\6.0 Drgs\Civil\Final\CC\7000_STAGE 1A CC\18-596-C7403.dwg

PENRITH CITY COUNCIL

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This plan / document relates to

Development Consent: SSD-10448-MOD-1

Subdivision Works Certificate: EA22/0040

Subject to the conditions outlined in the consent

EXTERNAL CATCHMENT TOTAL 73.461 ha

EXT-1 1.637 ha

EXT-2 6.613 ha

EXT-3 30.385 ha

EXT-4 9.552 ha

EXT-5 1.841 ha

EXT-6 17.792 ha

EXT-7 5.644 ha

AB4-1 4.387ha

AB4-1 9.587ha

AA1-22 1.379ha

AA12-1 3.314ha

AA2-4 0.402ha

AA7-1 1.715ha

AA1-3A 0.058ha

AA1-2 0.043ha

AA1-1 0.049ha

AA1-4 0.039ha

AA1-6 0.056ha

AA1-5 0.039ha

AA1-10 0.083ha

AA1-8 0.028ha

AA1-12 0.069ha

AA1-13 0.039ha

AA14-1 0.137ha

AA4-1 0.1814ha

AA4-2 0.081ha

AA10-1 0.080ha

AA5-1 0.119ha

AA6-1 0.061ha

AA8-1 0.070ha

AA8-1 0.089ha

AA13-2 0.075ha

AA13-2 0.043ha

AA14-1 0.061ha

AA14-2 0.070ha

AA1-A 12.953ha

AA15-1 6.773ha

AE1-7 12.450ha

MAMRE ROAD

LEGEND:

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- UPSTREAM CATCHMENT
- PROPOSED BOUNDARY
- UPSTREAM CATCHMENT DISCHARGE POINT

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

100mm on Original

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Client: mirvac

Scales	1:2500
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

GDA2020

Project: ASPECT INDUSTRIAL ESTATE MAMRE ROAD, KEMPS CREEK STAGE 1A

Title: STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)

Civil Engineers and Project Managers

at&l

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North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
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Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7412

Issue: 1

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PENRITH CITY COUNCIL
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Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
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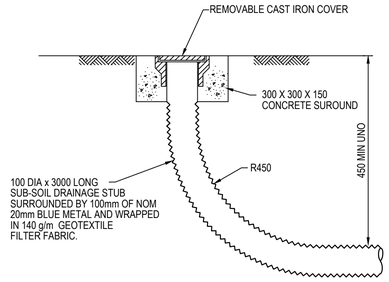
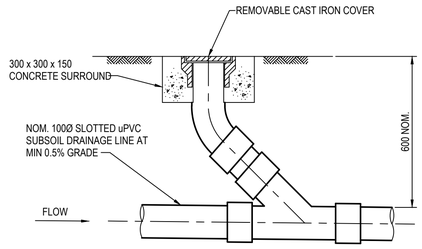
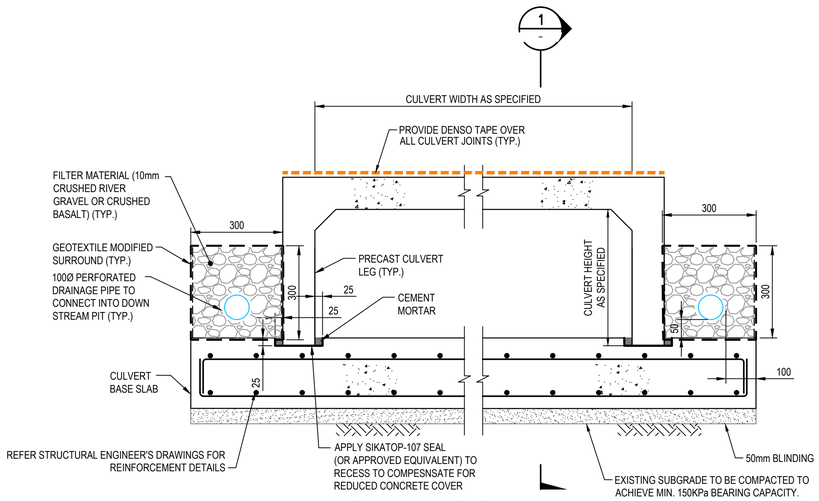


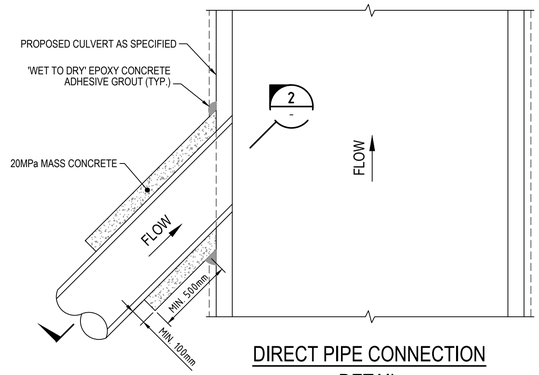
FLUSHING POINT
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



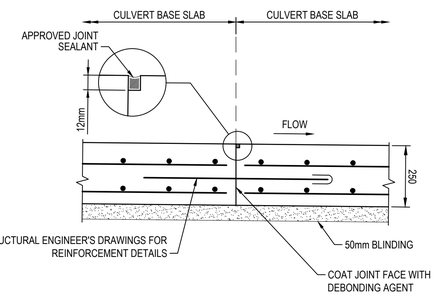
INTERMEDIATE RISER
SCALE 1:10



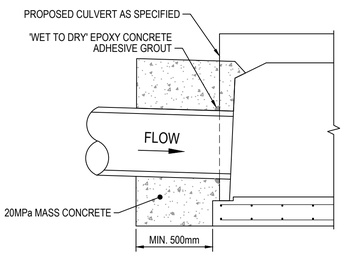
CULVERT BASE SLAB DETAIL
1 : 10



DIRECT PIPE CONNECTION DETAIL
1 : 20



CULVERT BASE SLAB JOINT DETAIL
SECTION 1
1 : 10



SECTION 2
1 : 20

STORMWATER STRUCTURE SETOUT POINTS

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

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

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Client: mirvac

Scales	AS SHOWN
Grid	MGA2020
Height Datum	AHD
Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

GDA2020

Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
STORMWATER DRAINAGE DETAILS
SHEET 1

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

Status: FOR CONSTRUCTION
Issue: A1
Project - Drawing No.: 18-596-C7421
Issue: 1

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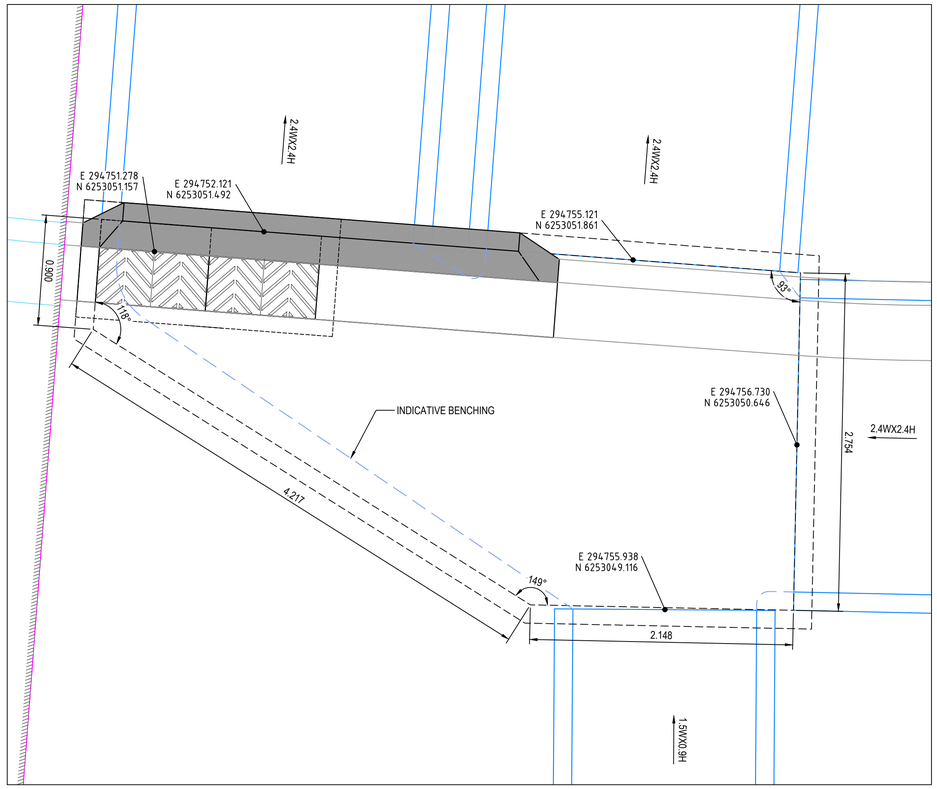
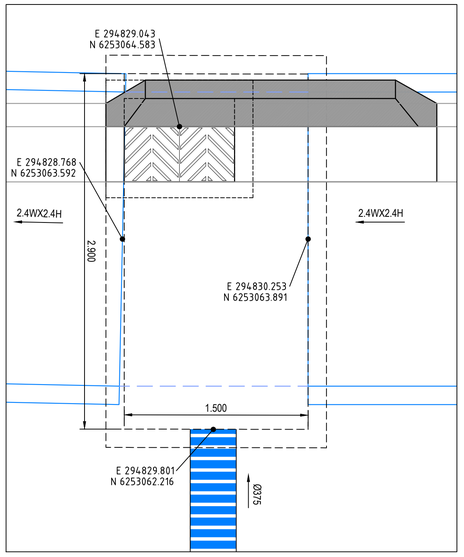
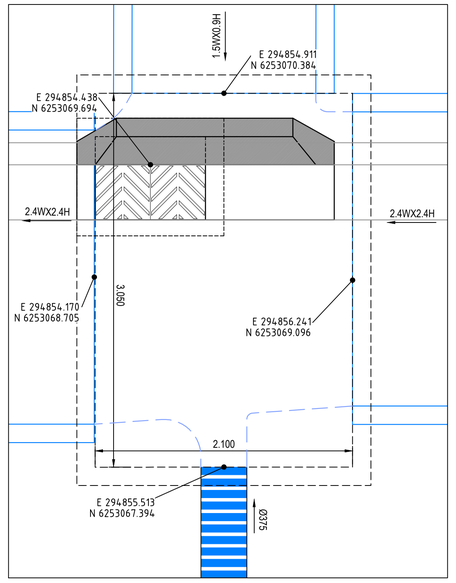


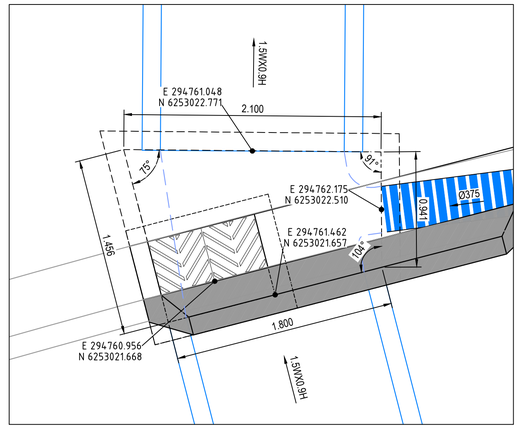
PIT AA1-14



PIT AA1-13



PIT AA1-12



PIT AA14-2

PENRITH CITY COUNCIL

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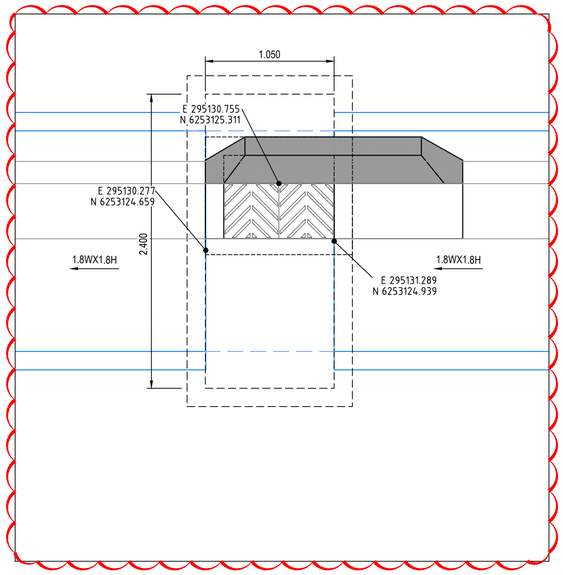
This plan / document relates to

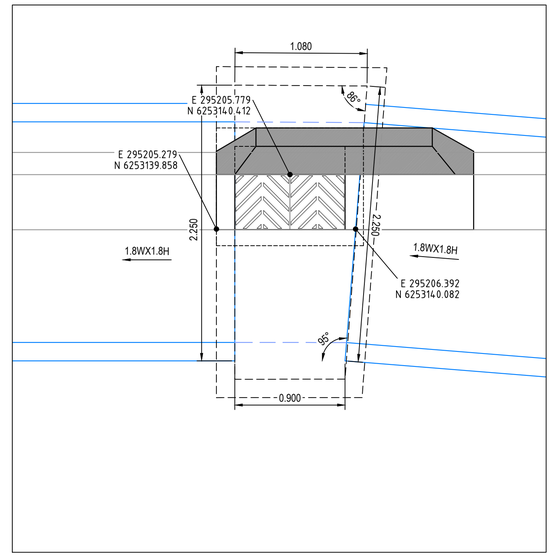
Development Consent: SSD-10448-MOD-1

Subdivision Works Certificate: EA22/0040

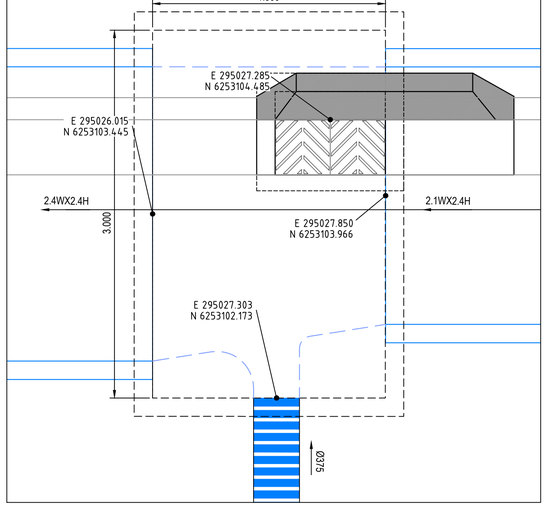
Subject to the conditions outlined in the consent



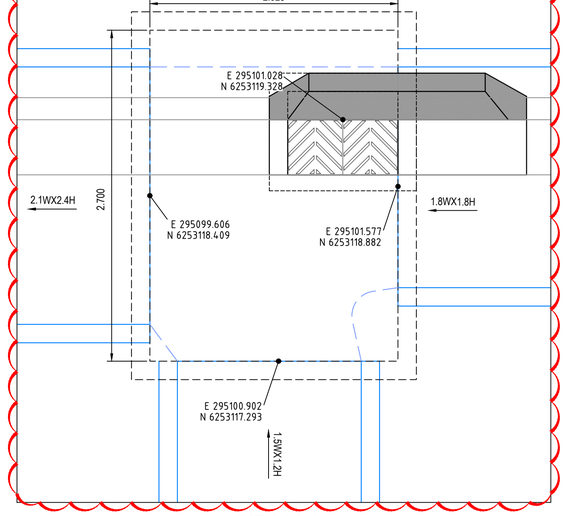
PIT AA1-3



PIT AA1-1



PIT AA1-6



PIT AA1-4

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.

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

North Point

Key Plan

Client: mirvac

Scales: 1:25

Grid: MGA2020

Height Datum: AHD

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

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GDA2020

Project: ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: PIT SETOUT DETAILS

Civil Engineers and Project Managers
at&l
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 CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7431

Issue: 1

100mm on Original

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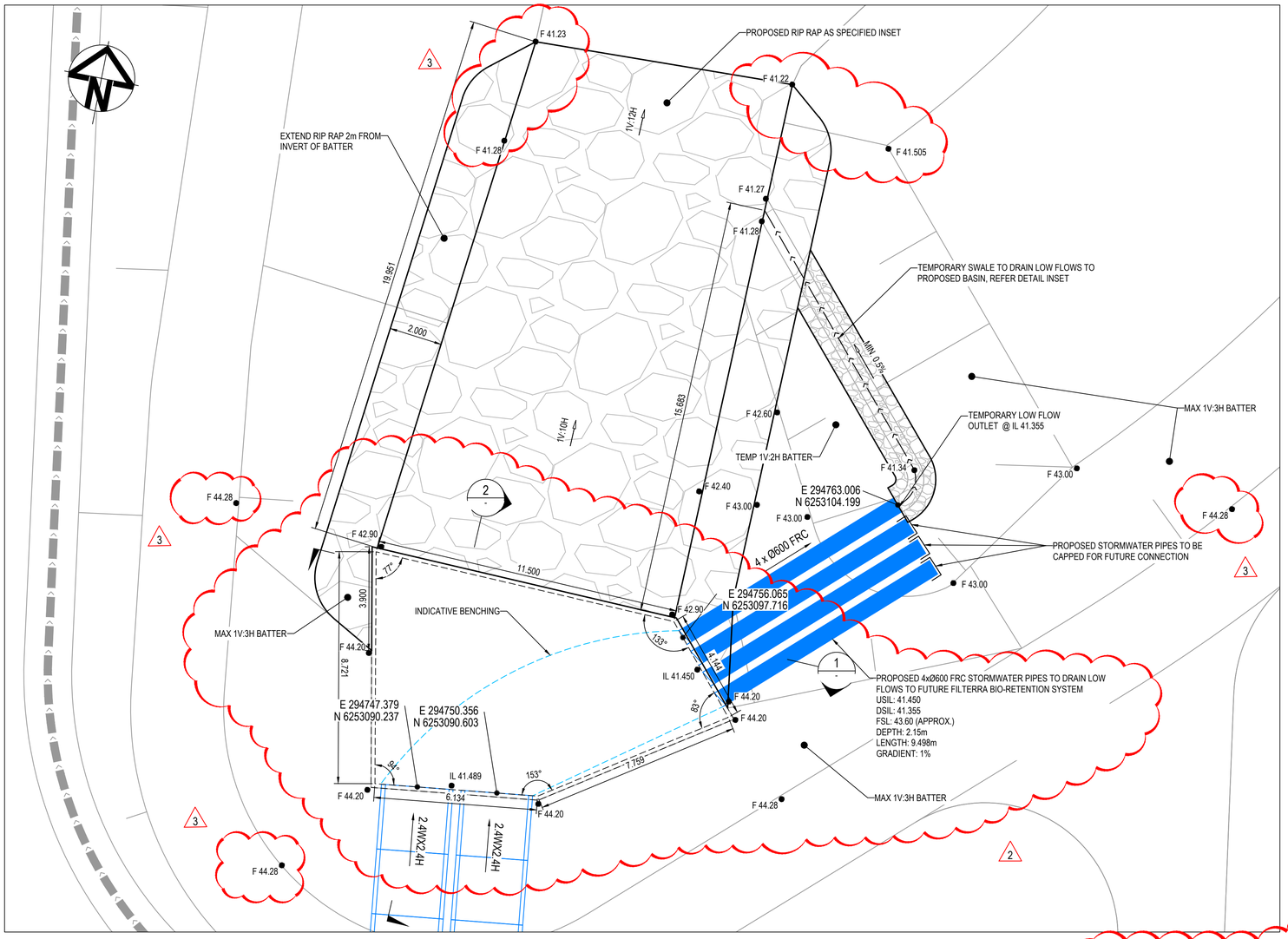
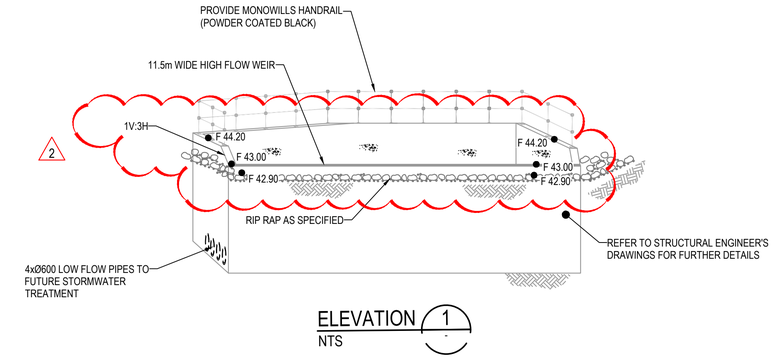


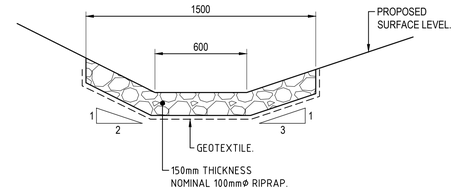
DIVERSION PIT AA1-15 DETAIL

SCALE 1:100



ELEVATION 1

NTS



TEMPORARY SWALE DETAIL

SCALE 1:20

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This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent

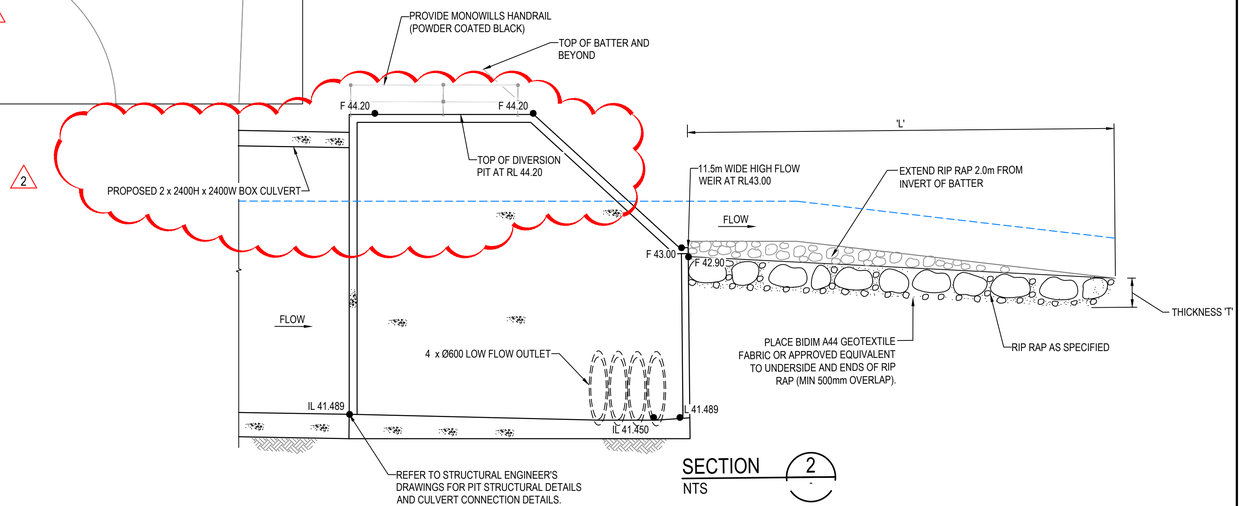
ROCK GRADATION TABLE

	d_{50}					ROCK DISTRIBUTION BY %
	200mm	300mm	400mm	500mm	600mm	
ROCK SIZE (mm)	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%

SCOUR PROTECTION SCHEDULE

OUTLET No.	LENGTH OF PROTECTION (m)	WIDTH OF PROTECTION (m)	NOMINAL ROCK SIZE (mm)	THICKNESS OF PROTECTION (mm)
	'L'	'W'	'd_{50}'	'T'
AA1-15	20	11.5	400	600

NOTE:
1. MINIMUM NOMINAL ROCK SIZE 'd_{50}' IS 400mm.
2. THICKNESS 'T' IS 1.5 x NOMINAL ROCK SIZE
3. ROCK IS NOT TO BE SITE WON SHALE OR OTHER WEATHERABLE ROCK



SECTION 2

NTS

Issue	Description	Date
3	ISSUED FOR CONSTRUCTION	17-10-22
2	ISSUED FOR CONSTRUCTION	13-10-22
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

100mm on Original

Key Plan

Client: mirvac

Scales: AS SHOWN

Grid: MGA2020

Height Datum: AHD

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

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GDA2020

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: DIVERSION PIT DETAILS

Civil Engineers and Project Managers
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info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7435

Issue: 3

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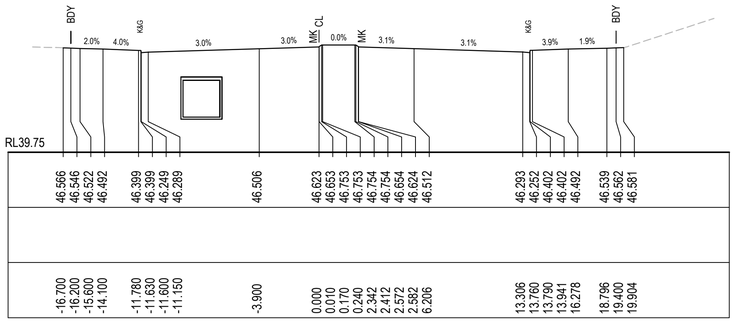
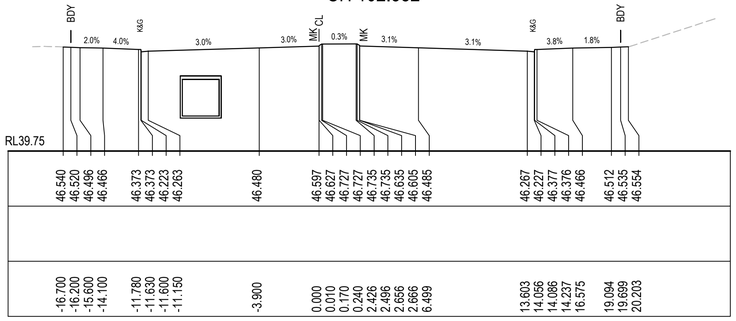
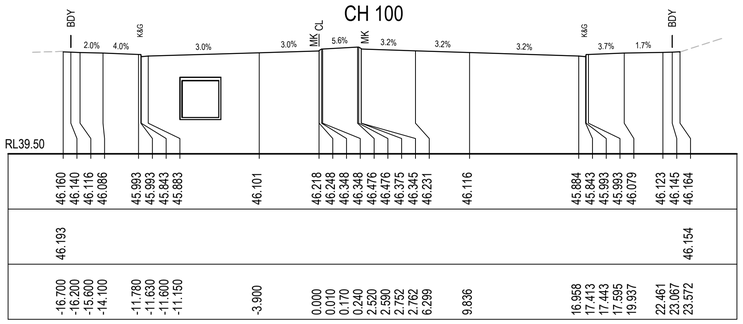


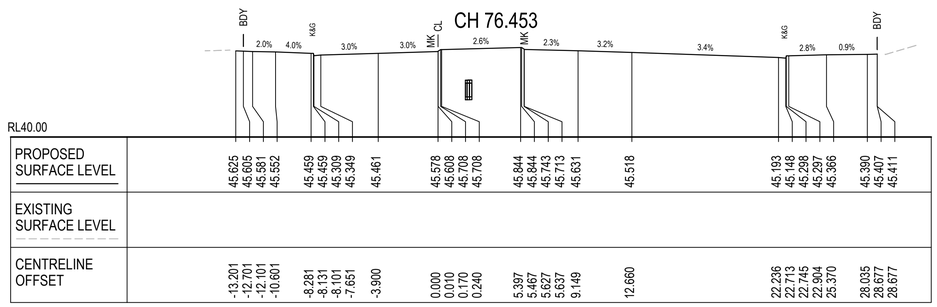
CH 102.382



CH 100



CH 76.453



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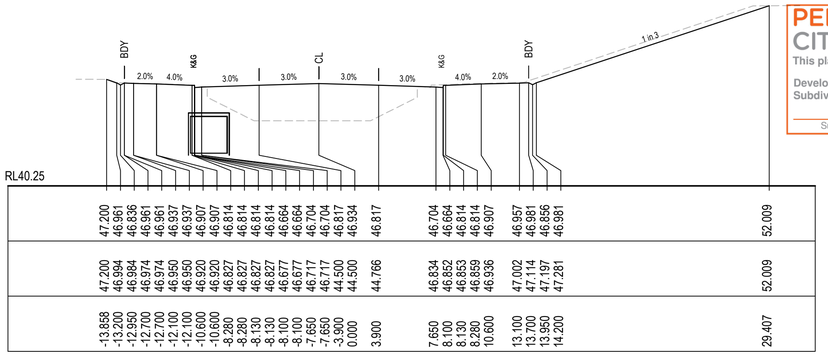

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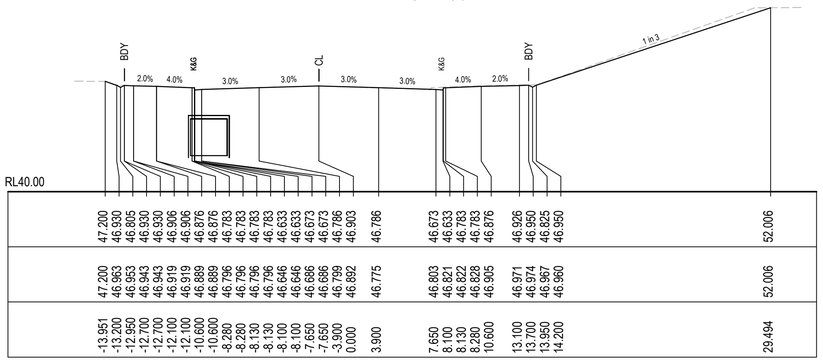
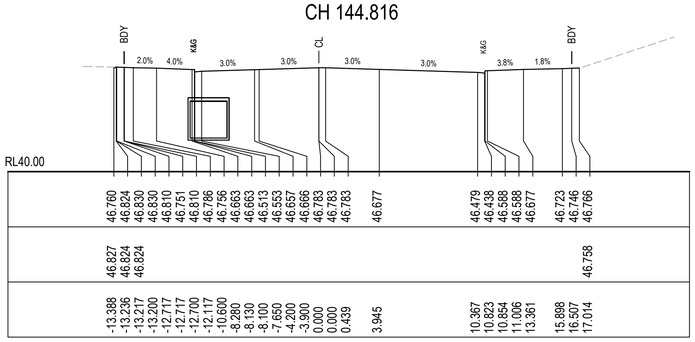


CH 144.816



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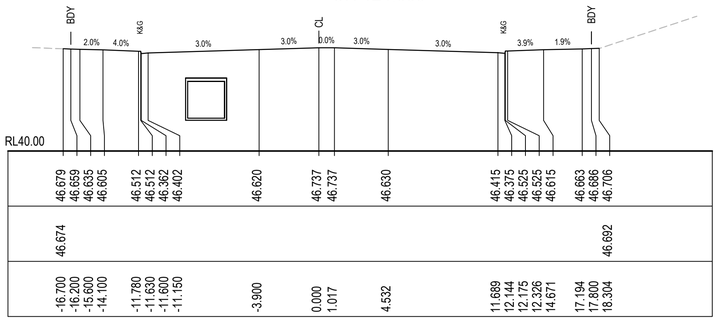

CH 117.12

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This plan / document relates to

Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040

Subject to the conditions outlined in the consent

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

0 5 10 15 20m

1 : 200 @ A1 1 : 400 @ A3

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Client: mirvac

Scales: 1:200

Grid: MGA2020

Height Datum: AHD

GDA2020

Drawn	JB/MH
Designed	JB/MH
Checked	DS
Approved	DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: ROAD CROSS SECTIONS
ROAD 01
SHEET 1

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at&l
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION

A1

Project - Drawing No.: 18-596-C7501

Issue: 1

100mm on Original

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Subdivision Works Certificate: EA22/0040
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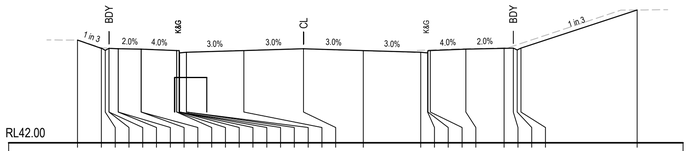

| | | |

LEGEND

- EXISTING SEDIMENT FENCE (SD 6-8)
- EXISTING CATCH DRAIN
- EXISTING BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- EXISTING ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- EXISTING STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- SITE ACCESS GATE
- PIPE CROSSING

NOTE:
1. REFER TO C6000 PACKAGE ALSO FOR EROSION AND SEDIMENT CONTROL DETAILS
2. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
3. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

PENRITH CITY COUNCIL
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Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
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EXISTING BASIN EMERGENCY OVERFLOW
EXISITING CATCH DRAIN
EXISITING SEDIMENT FENCE
ROAD 01
MAMRE ROAD INTERSECTION WORKS BY OTHERS
EXISTING SEDIMENT BASIN ROAD 01
EXISTING SEDIMENT BASIN, AND EMERGENCY OVERFLOW PATH TO BE DECOMMISSIONED AS PART OF ROAD WORKS.
EXISTING ON LOT SEDIMENT BASIN
REFER 6000 DRAWING PACKAGE FOR DETAILS
FUTURE ROAD 04

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

100mm on Original

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

Key Plan
SHEET 1 SHEET 2

Client
mirvac

Scales 1:500
Drawn JB/MH
Designed JB/MH
Grid MGA2020
Checked DS
Height Datum AHD
Approved DS

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Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
EROSION AND SEDIMENT CONTROL PLAN
SHEET 1

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Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7631
Issue: 1

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LEGEND

- EXISTING SEDIMENT FENCE (SD 6-8)
- EXISTING CATCH DRAIN
- EXISTING BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- EXISTING ROCK RIFFLE CHECK DAM (SD 5-4)
- GEOTEXTILE INLET (SD 6-12)
- EXISTING STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- SITE ACCESS GATE
- PIPE CROSSING

NOTE:

1. REFER TO C6000 PACKAGE ALSO FOR EROSION AND SEDIMENT CONTROL DETAILS
2. DETAILS FOR SCOUR PROTECTION TO BE DETERMINED BY CONTRACTORS CPESC, INCLUDING LENGTHS AND WIDTHS. IF THE CPESC CONFIRMS ROCK STABILISATION IS REQUIRED FOR THE INLETS/OUTLET, CPESC TO CONFIRM ROCK SIZING.
3. ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

PENRITH CITY COUNCIL
This plan / document relates to
Development Consent: SSD-10448-MOD-1
Subdivision Works Certificate: EA22/0040
Subject to the conditions outlined in the consent
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ROAD 02

ROAD 01

EXISITING SEDIMENT FENCE

EXISITING CATCH DRAIN

EXISTING BASIN EMERGENCY OVERFLOW

EXISTING ON LOT SEDIMENT BASIN
REFER 6000 DRAWING PACKAGE FOR DETAILS

ROAD 03

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

Key Plan
SHEET 1 SHEET 2

Client
mirvac

Scales 1:500
Drawn JB/MH
Designed JB/MH
Grid MGA2020
Checked DS
Height Datum AHD
Approved DS

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Project
ASPECT INDUSTIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title
EROSION AND SEDIMENT CONTROL PLAN
SHEET 2

Civil Engineers and Project Managers
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Status: FOR CONSTRUCTION
A1
Project - Drawing No.: 18-596-C7632
Issue: 1

100mm on Original

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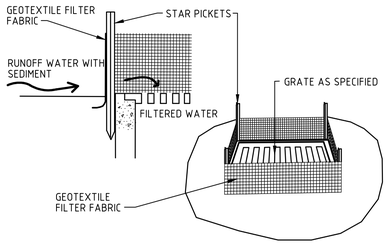
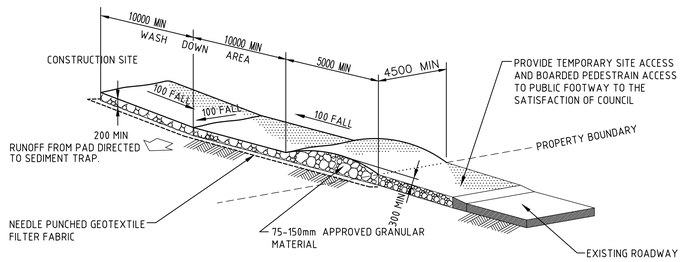


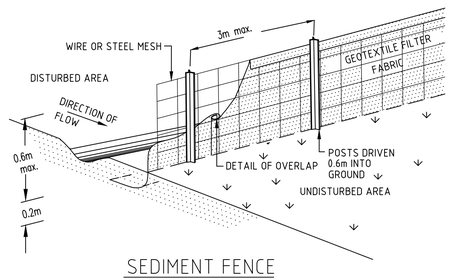
GEOTEXTILE FILTER PIT SURROUND

NTS



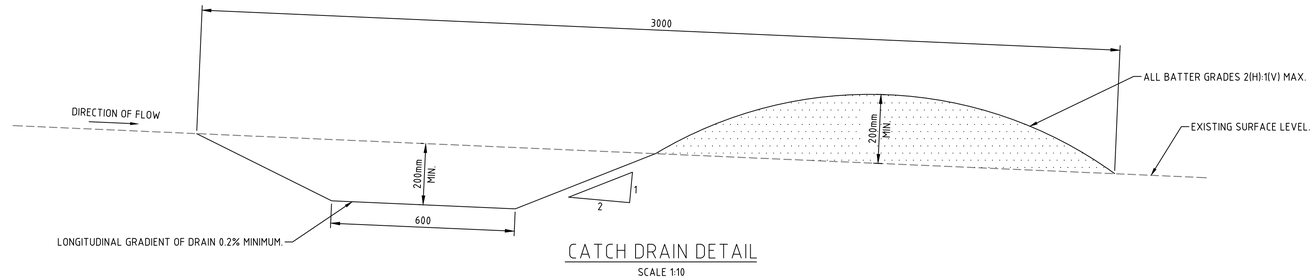
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



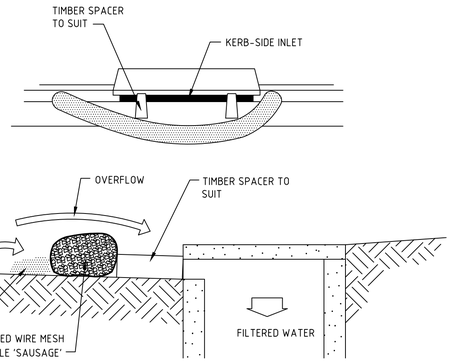
SEDIMENT FENCE

NTS



CATCH DRAIN DETAIL

SCALE 1:10



MESH AND GRAVEL INLET FILTER

NTS

Issue	Description	Date
1	ISSUED FOR CONSTRUCTION	12-10-22
A	ISSUED FOR SWC APPROVAL	23-09-22

Bar Scales

100mm on Original

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Client: mirvac

Scales: AS SHOWN
Grid: MGA2020
Height Datum: AHD
GDA2020

Drawn: JB/MH
Designed: JB/MH
Checked: DS
Approved: DS

Project: ASPECT INDUSTRIAL ESTATE
MAMRE ROAD,
KEMPS CREEK
STAGE 1A

Title: EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers
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info@atl.net.au

Status: FOR CONSTRUCTION
A1

Project - Drawing No.: 18-596-C7633
Issue: 1

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