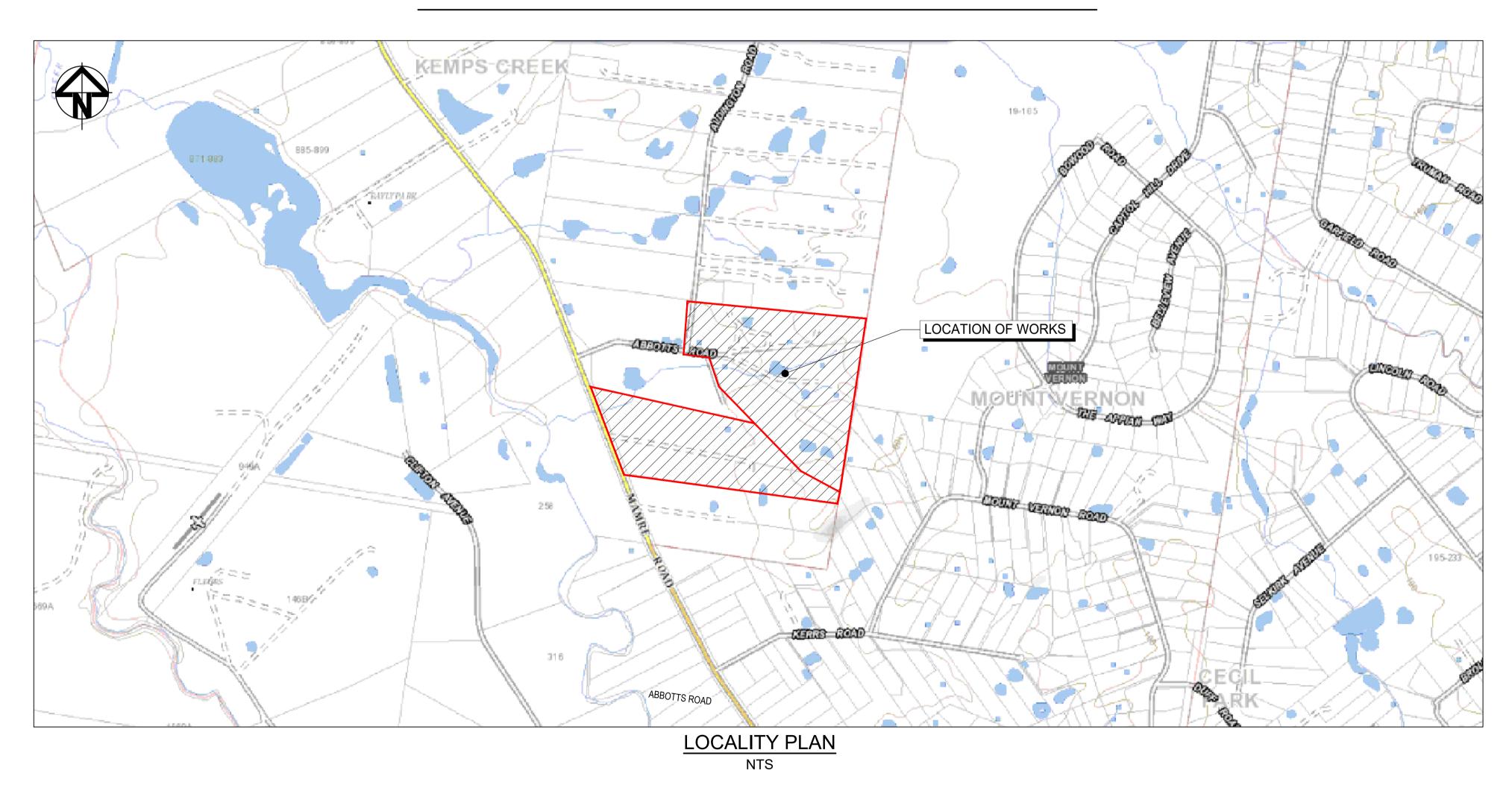
WESTLINK KEMPS CREEK

CIVIL WORKS PACKAGE - INFRASTRUCTURE WORKS STATE SIGNIFICANT DEVELOPMENT APPLICATION RTS-SSD-9138102



Bar Scales RE-ISSUED FOR DEVELOPMENT APPLICATION 19-10-22 RE-ISSUED FOR DEVELOPMENT APPLICATION 29-08-22 08-04-22 RTS SUBMISSION 11-11-21 RTS ISSUE RTS ISSUE 12-10-21 19-04-21 ISSUED FOR DEVELOPMENT APPLICATION ISSUED FOR DEVELOPMENT APPLICATION 22-12-20 Date



Scales	N.T.S.	Drawn	LM	Projec
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DEVELOPMENT

WESTLINK

KEMPS CREEK

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Project - Drawing No. 20-748-C1000

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RAWING No.	DRAWING TITLE
20-748-C1000	COVER SHEET
20-748-C1001	DRAWING LIST
20-748-C1002	GENERAL NOTES
20-748-C1005	GENERAL ARRANGEMENT PLAN
20-748-C1010	TYPICAL ROAD SECTIONS SHEET 1
20-748-C1011	TYPICAL ROAD SECTIONS SHEET 2
20-748-C1012	TYPICAL ROAD SECTIONS SHEET 3
20-748-C1013	TYPICAL ROAD SECTIONS SHEET 4
20-748-C1015	TYPICAL DETAILS SHEET 1
20-748-C1020	BOUNDARY INTERFACE PLAN
20-748-C1021	BOUNDARY INTERFACE SECTIONS SHEET 1
20-748-C1022	BOUNDARY INTERFACE SECTIONS SHEET 2
20-748-C1023	BOUNDARY INTERFACE SECTIONS SHEET 3
20-748-C1024	BOUNDARY INTERFACE SECTIONS SHEET 4
20-748-C1030	BULK EARTHWORKS CONTOUR PLAN
20-748-C1033	BULK EARTHWORKS CUT\FILL PLAN
20-748-C1041	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
20-748-C1042	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
20-748-C1043	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
20-748-C1044	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
20-748-C1045	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
20-748-C1046	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 6
20-748-C1047	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 7
20-748-C1048	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 8
20-748-C1050	ABBOTTS ROAD (MC01) LONGITUDINAL SECTION SHEET 1
20-748-C1051	ABBOTTS ROAD (MC01) LONGITUDINAL SECTION SHEET 2
20-748-C1052	PRIVATE ACCESS ROAD (MC04) LONGITUDINAL SECTION SHEET 3
20-748-C1061	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
20-748-C1065	STORMWATER DRAINAGE CATCHMENT PLAN (POST-DEVELOPED)

20-748-C1071	ULTIMATE DETENTION BASIN DETAIL PLAN				
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20-748-C1075	STORMWATER DRAINAGE DETAILS SHEET 1				
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20-748-C1080	RETAINING WALL GENERAL ARRANGEMENT PLAN SHEET 1				
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20-748-C1101	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1				
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20-748-C1314	VEHICLE TURNPATH PLAN SHEET 4				

J	RE-ISSUED FOR DEVELOPMENT APPLICATION	14-02-23	Bar Scales
Н	RE-ISSUED FOR DEVELOPMENT APPLICATION	15-12-22	
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	
Е	RTS SUBMISSION	08-04-22	
D	RTS ISSUE	11-11-21	
С	RTS ISSUE		
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	
Α	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20	
Issue	Description	Date	



Client

Scales	N.T.S.	Drawn	LM	Proj
	IN. I . S.	Designed	LM	
Grid	MGA2020	Checked	AT	
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Civil Engineers and Project Managers

Project - Drawing No. 20-748-C1001

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

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 R.M.S SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCÒRDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1
- TEST PER 50m OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m 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 R.M.S 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.

SURVEY NOTES

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

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

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

- 1. THE BOUNDARIES HAVE APPOROXIMATELY BEEN SURVEYED IN ACCORDANCE WITH CLAUSE 9 OF THE SURVEYING & SPATIAL INFORMATION **REGULATION 2017**
- 2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL
- B. ORIGIN OF COORDINATES HAS BEEN DERIVED USING GPS (GNSS) SURVEY FROM SSM33562
- 4. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM PM178274
- USING GPS (GNSS) SURVEY METHODS. 5. CONTOUR INTERVAL 0.5 m

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RTS ISSUE

RTS ISSUE

- 6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
- NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR **NEAR THE SITE**
- 8. 8/.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT OF 7m
- 9. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS INDICATIVE ONLY
- BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

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 R.M.S 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
- NUMBER OF BARS IN GROUP _ BAR GRADE AND TYPE

17 N 20 250

NOMINAL BAR SIZE IN mm — LSPACING IN mm

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

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING

KERBING NOTES

Bar Scales

19-10-22

29-08-22

08-04-22

11-11-21

12-10-21

19-04-21

22-12-20

Date

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa 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. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- 6. IN THE REPLACEMENT OF KERB AND GUTTER:-EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.
- EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.
- EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

STORMWATER DRAINAGE NOTES

- STORMWATER DESIGN CRITERIA (A) AVERAGE RECURRENCE INTERVAL 1:100 YEARS MAJOR STORM (OVERLAND FLOW)
 - 1:20 YEARS MINOR STORM (PIPED NETWORK) (B) RAINFALL INTENSITIES: TIME OF CONCENTRATION:5 MINUTES 1:100 YEARS= 219 mm/hr 1:20 YEARS= 167 mm/hr
 - (C) RUNOFF COEFFICIENTS: ROOF AREAS: $C_{100} = 1.0$ EXTERNAL PAVEMENTS: C 100 =1.0
 - PIPES 300 DIA. AND LARGER 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.
 - . EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.
 - ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m
 - E. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
 - ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2
 - PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
 - ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
 -). WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED. 1. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES, GRADES
 - SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

- 12. GRATES AND COVERS SHALL CONFORM TO AS 3996. 13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE
- 4. 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.

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 SLUSH, GROUTING AND

- DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER 4. COMPACT CLAY STABILIZED 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.
- . GYPSUM STABILIZED 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, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MIN.) 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.
- 1. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
- 12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH a. LOCAL AUTHORITY REQUIREMENTS
- b FPA REQUIREMENTS c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN
- STORMWATER, SOILS AND CONSTRUCTION". 4th EDITION. MARCH
- B. 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 IN THE FOLLOWING SEQUENCE:
- (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN, REFER DETAIL.
- (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER
- (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
- (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
- (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION 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.

SEDIMENT CONTROL

- 9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS. SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT
- 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.

EROSION AND SEDIMENT CONTROL NOTES CONTINUED

STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE DESIGNED. PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, INCLUDING AT COMPLETION OF THE BULK EARTHWORKS WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCIL'S ENGINEERS.

SEDIMENT AND EROSION CONTROLS ARE TO BE DESIGNED AND DOCUMENTED BY A SUITABLY QUALIFIED EXPERT ENGAGED BY THE CONTRACTOR AND APPROVED AS PART OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS IN THE LATEST VERSION OF THE MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION GUIDELINE (LANDCOM).

DEWATERING

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

DECOMMISSIONING / DEMOLITION

DEMOLITION OF EXISTING DWELLING TO BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF AS2601-2001 - DEMOLITION OF STRUCTURES BY CONTRACTORS EXPERIENCED IN THIS CLASS OF WORK AND HOLDING REQUIRED CURRENT PERMITS AND LICENSES AS REQUIRED.

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

DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES

INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON

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

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO

BIO-RETENTION FILTER MEDIA SPECIFICATION

MATERIALS:

BIO-RETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYERS TO BE IN

ACCORDANCE WITH CURRENT VERSION OF FAWB DOCUMENT "STORMWATER BIO-FILTRATION SYSTEMS ADOPTION GUIDELINES" AND THE FOLLOWING,:

A) BIO-RETENTION FILTER MEDIA

1. BIO-RETENTION MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL. 2. BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE 180mm/hr USING TEST METHOD ASTM F1815-06.

3. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS: CLAY & SILT <3% (<0.05mm)

(0.05-0.15mm) VERY FINE SAND 5-30% FINE SAND 10-30% (0.15-0.25mm) MEDIUM TO COARSE SAND 40-60%(0.25-1.0mm) COARSE SAND 7-10% (1.0-2.0mm) FIN GRAVEL <3% (2.0-3.4mm)

THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3% (W/W) UNDER ANY CIRCUMSTANCES.

4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING

REQUIREMENTS: a) ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3% (W/W)

b) TOTAL NITROGEN (TN) CONTENT <900mg/kg c) ORTHOPHOSPHATE (PO43) CONTENT - <30mg/kg WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED. TOTAL PHOSPHOROUS

CONCENTRATION SHOULD BE <20mg/kg d) AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5

(pH 1.5 IN WATER) e) ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOILS BLENDS" AS4419 <1.2ds/m f) DISPENSABILITY - AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS' AS4419

CATEGORY 1 OR 2 g) TEXTURE - LOAMY SAND AS PER AS4419 5. PRIOR TO PLACEMENT OF THE FILTER MEDIA A STATEMENT IS TO BE

SUBMITTED FROM A QUALIFIED HORTICULTURIST CONFIRMING THAT THE SOIL

IS CAPABLE OF SUPPORTING A HEALTHY VEGETABLE COMMUNITY. 6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE

SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

B) DRAINAGE LAYER A

DRAINAGE LAYER MATERIAL IS TO BE CLEAN, FINE GRAVEL, SUCH AS A 2 - 5mm WASHED SCREENING. THE PARTICLE SIZE DISTRIBUTION TO BE:

D15 (DRAINAGE LAYER) < 5 x D85 (TRANSITION LAYER) WHERE: D15 (DRAINAGE LAYER) IS THE 15TH PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e, 15% OF THE SAND IS SMALLER THAN D15 mm), AND D85 (TRANSITION LAYER) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

C) DRAINAGE LAYER B 10-20mm CLEAN GRAVEL WITH 2% VOLUME FINE STRAW AND 4-6% VOLUME

HARDWOOD CHIPS.

INSTALLATION:

FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.

FINISHED SURFACE LEVELS

1. ALL FINISHED SURFACE LEVELS ARE ±1000mm U.N.O.



CONTRACTOR SHALL CALL; DIAL BEFORE YOU DIG 1100

PRIOR TO COMMENCEMENT OF WORK

North Sydney NSW 2060

Issue

ABN 96 130 882 405

Tel: 02 9439 1777

Fax: 02 9923 1055

www.atl.net.au

TO OBTAIN ALL CURRENT SERVICE

AUTHORITY PLANS

Civil Engineers and Project Managers Level 7, 153 Walker Street



info@atl.net.au FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No. 20-748-C1002

Description 100mm on Original

Client

N.T.S. Designed LM Checked MGA2020 ΑT AHD Datum

Scales

GDA2020

LM

Title

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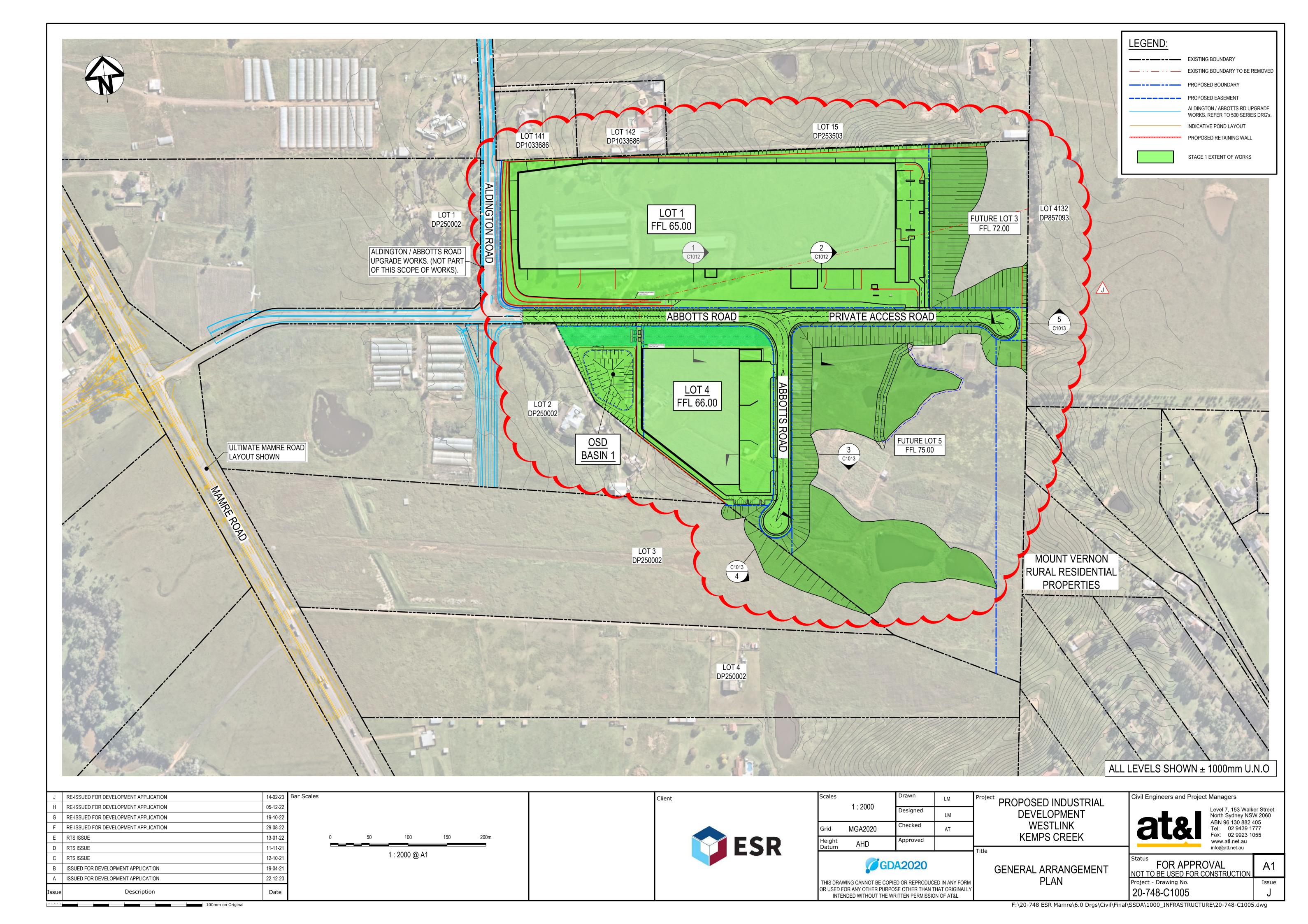
GENERAL NOTES

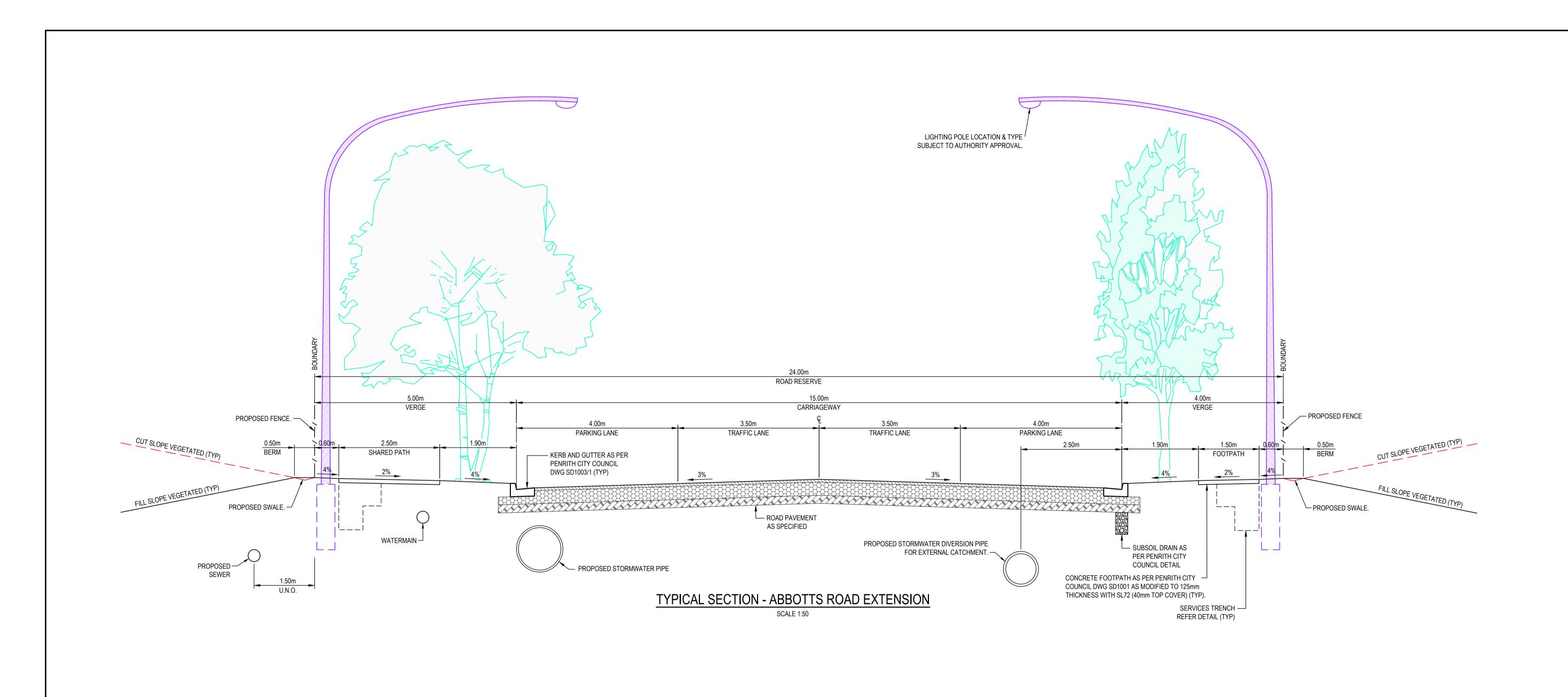
PROPOSED INDUSTRIAL

DEVELOPMENT

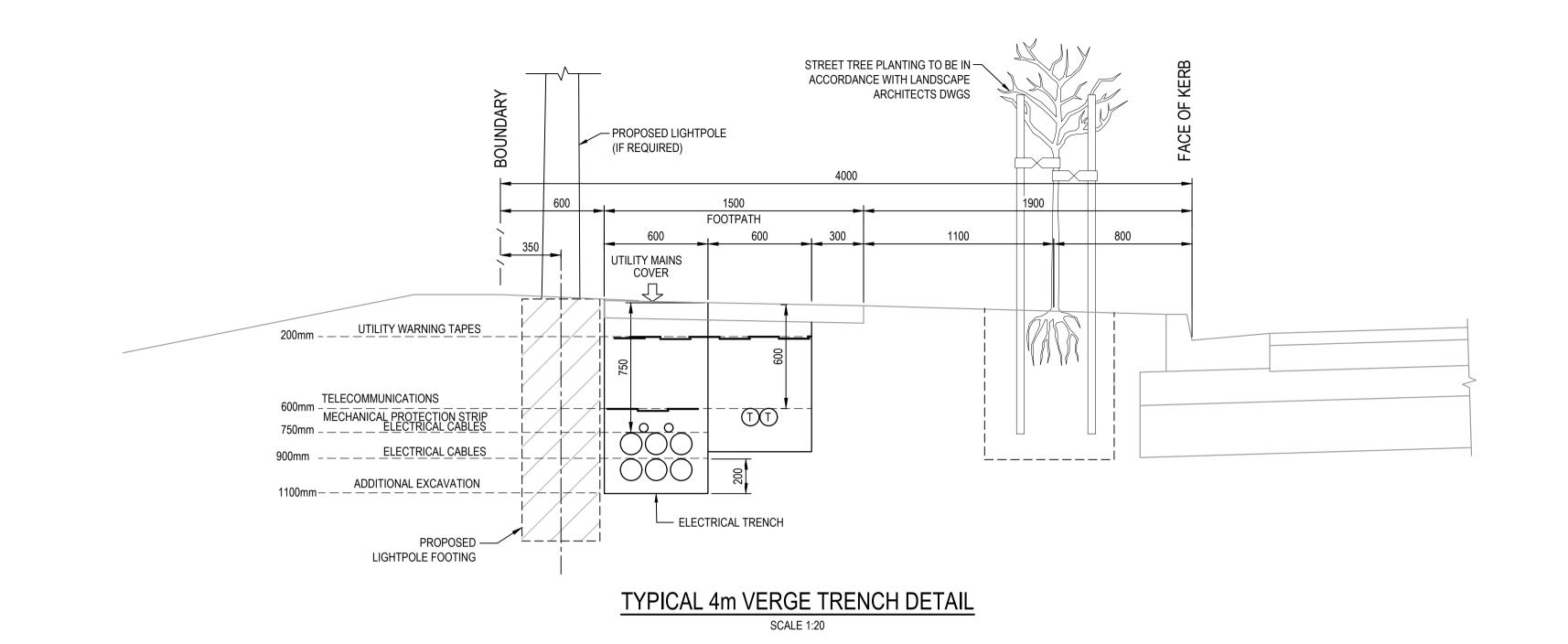
WESTLINK

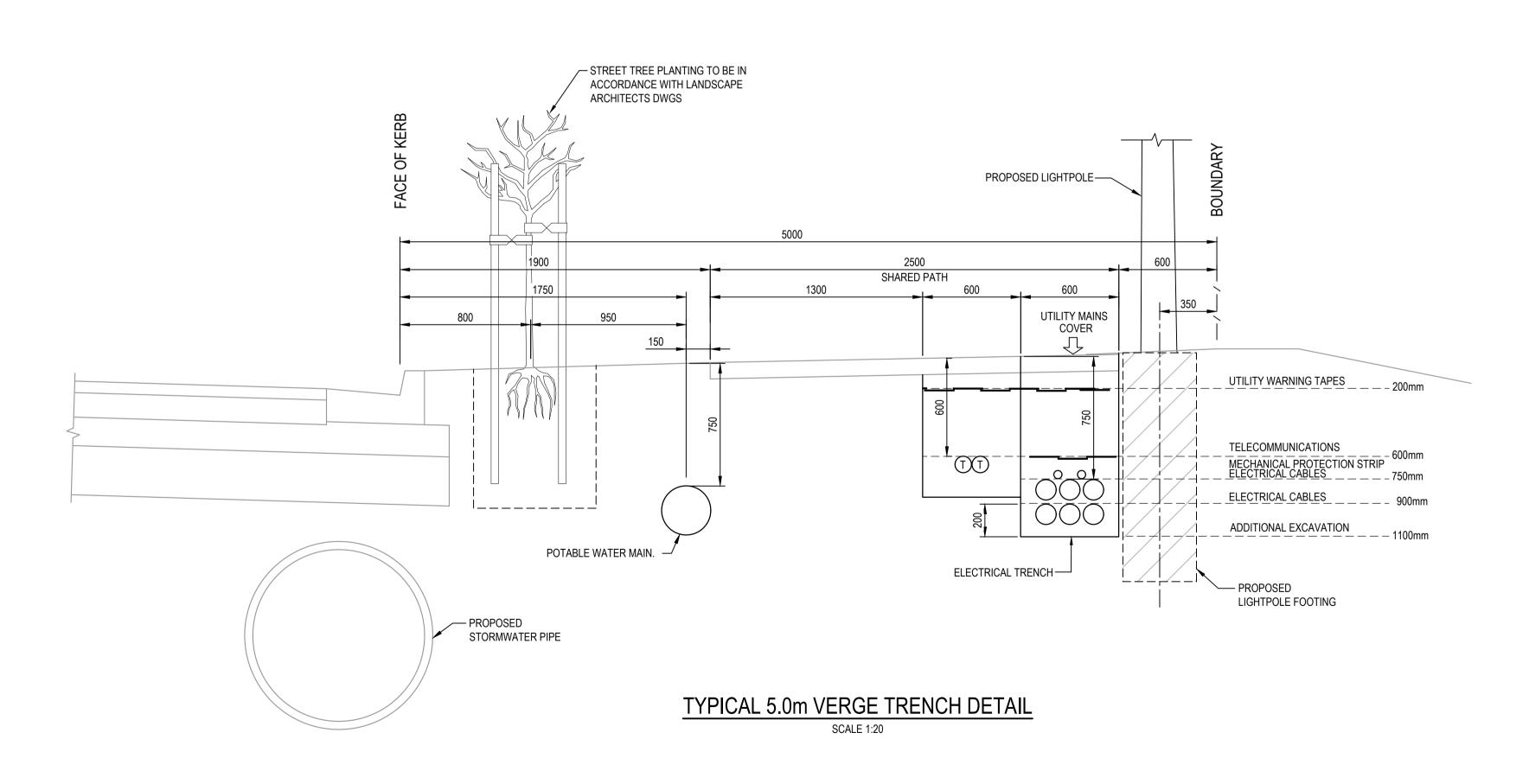
KEMPS CREEK





		Bar Scales	Client	Scales Drawn LM AS SHOWN Designed	Project PROPOSED INDUSTRIAL	Civil Engineers and Project Managers
RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-			Designed LM	DEVELOPMENT	Level 7, 153 Walke North Sydney NSV
RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-			Grid MGA2020 Checked AT	WESTLINK	ABN 96 130 882 Tel: 02 9439 1
TS SUBMISSION	08-04-	2		Height ALID Approved	KEMPS CREEK	Fax: 02 9923 1 www.atl.net.au
RTS ISSUE	11-11-		ESR	Datum AHD	Title	info@atl.net.au
RTS ISSUE	12-10-			Consessed		Status FOR A DDD OV (A L
SSUED FOR DEVELOPMENT APPLICATION	19-04-			GDA2020	TYPICAL ROAD	FOR APPROVAL
SSUED FOR DEVELOPMENT APPLICATION	22-12-			THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORI	OFOTIONO	NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.
Description	Date			OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALL INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	SHEET 1	20-748-C1010
100r	mm on Original		•	•	F:\20-748 ESR Mamre\6.0 Drgs\Civil\Fir	nal\SSDA\1000_INFRASTRUCTURE\20-748-C1010





G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Е	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
С	RTS ISSUE	12-10-21
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
Α	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20

100mm on Original

Description

Bar Scales

Date



Client

Scales	A O OLLOVA/N	Drawn	LM	Proj
	AS SHOWN	Designed	LM	
Grid	MGA2020	Checked	AT	
Height	AHD	Approved		

INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

		Title
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PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

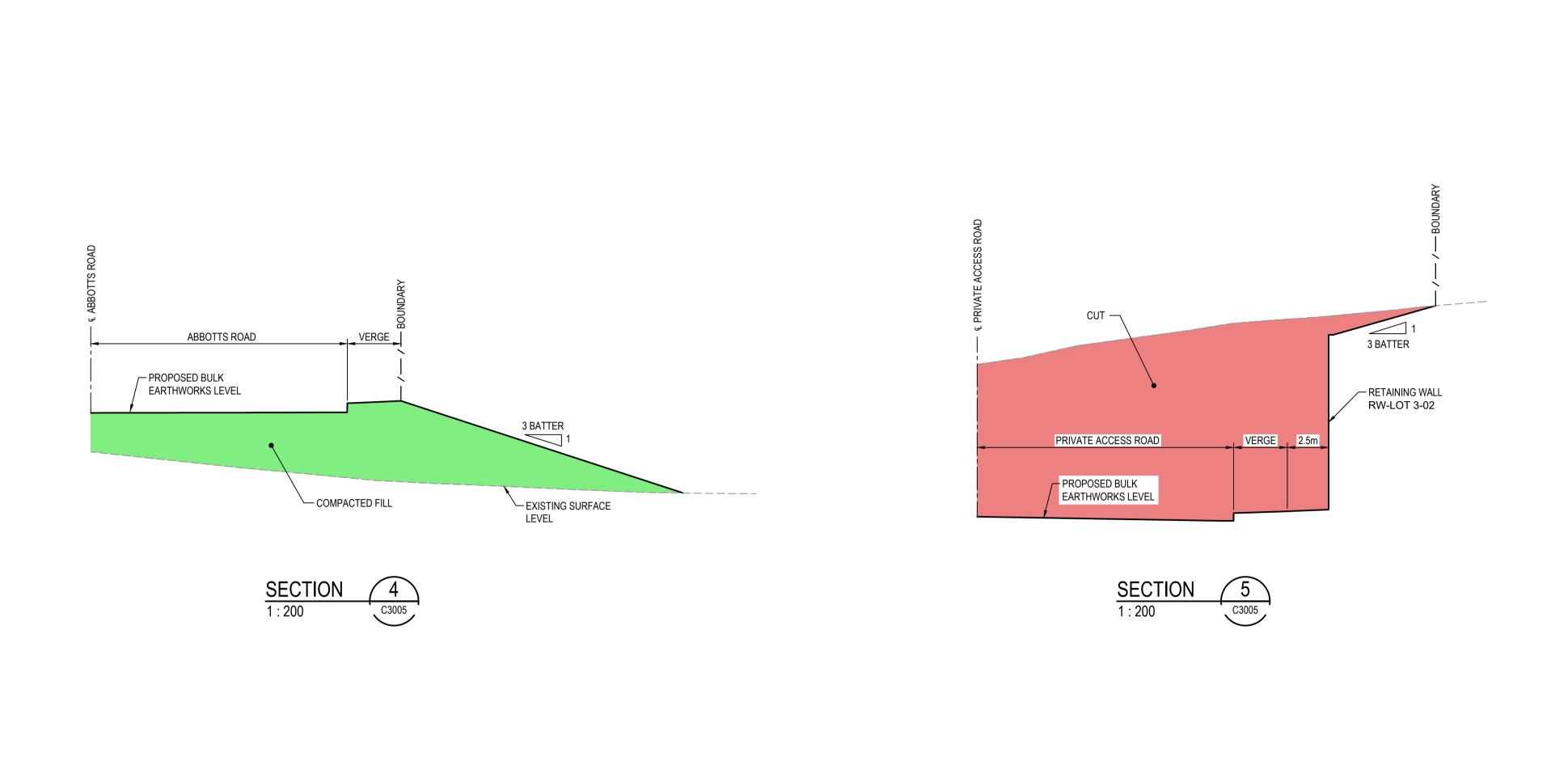
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au

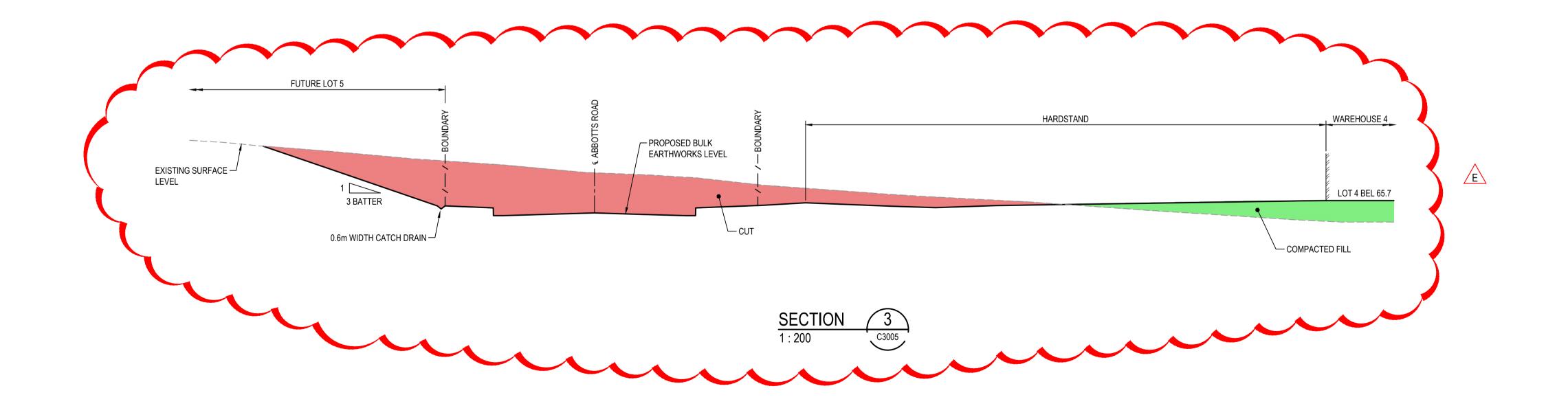
Issue

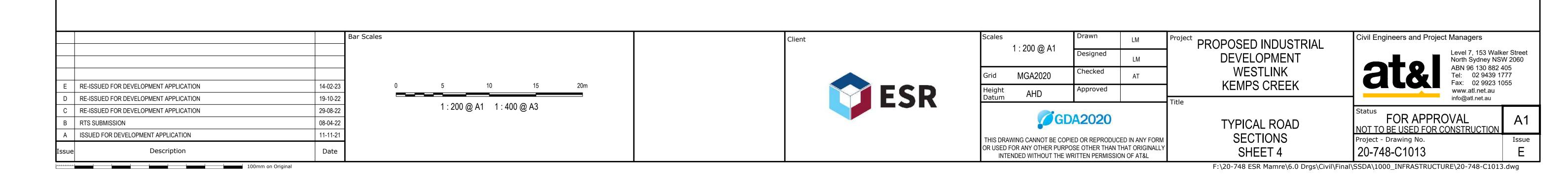
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 20-748-C1011

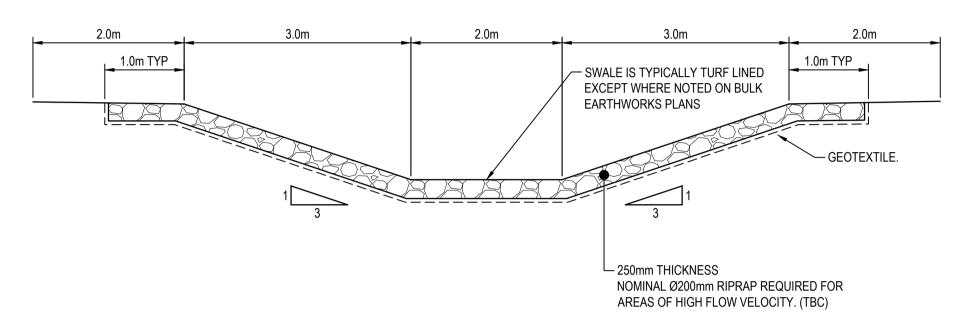
Civil Engineers and Project Managers



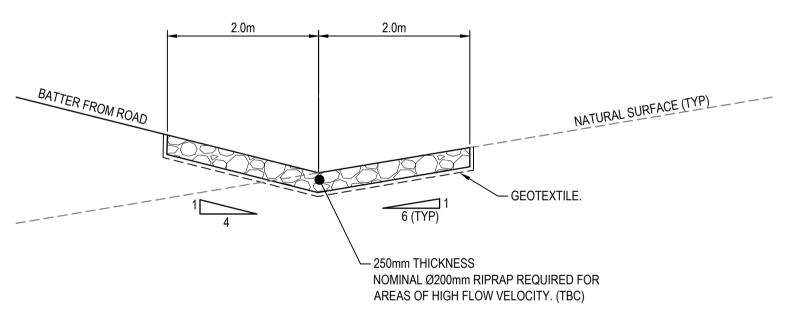








TYPICAL STORMWATER DIVERSION EROSION CATCH DRAIN SCALE 1:50



TYPICAL STORMWATER DIVERSION CATCH DRAIN ALONG TOE OF ROAD BATTER SCALE 1:50

			Bar Scales					
				0	1	2	3	4
						. 50 0 14	4 . 400 . 0	A 2
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В	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22						
Α	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22						
Issue	Description	Date						



Client

Scales		Drawn	LM	Pro
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GDA2020
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ct	PROPOSED INDUSTRIAL
	DEVELOPMENT
	WESTLINK
	KEMPS CREEK

DETAILS

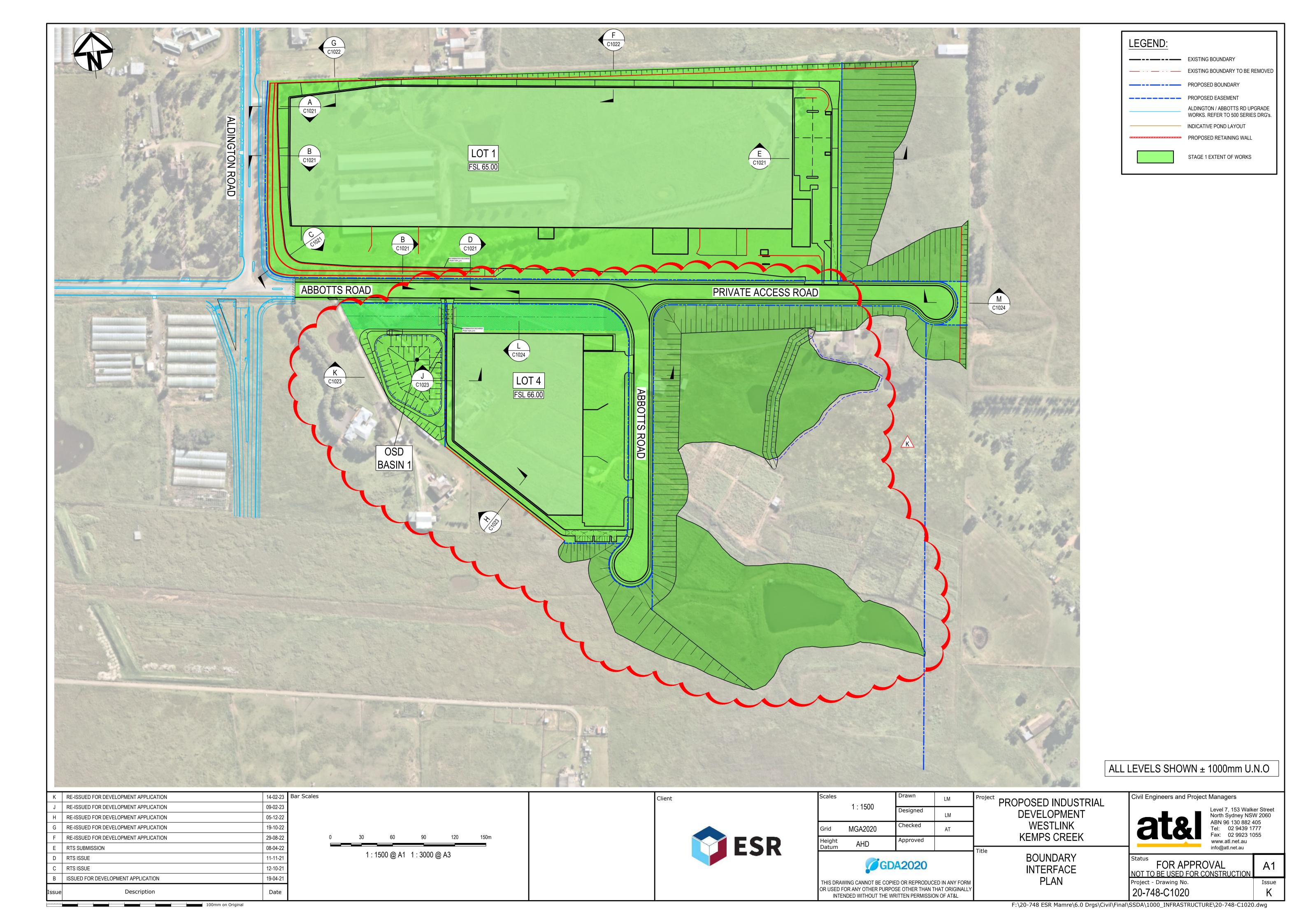
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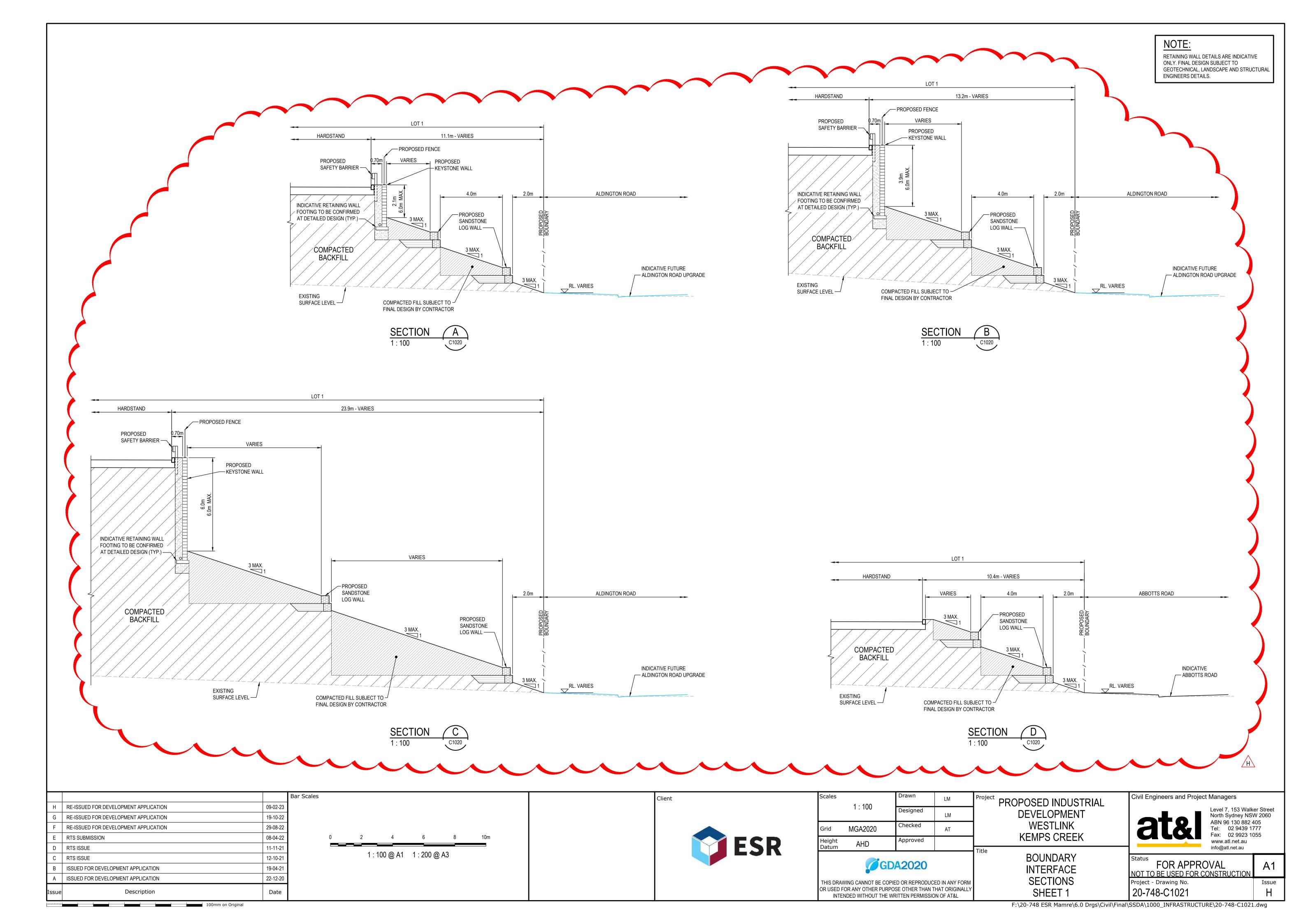
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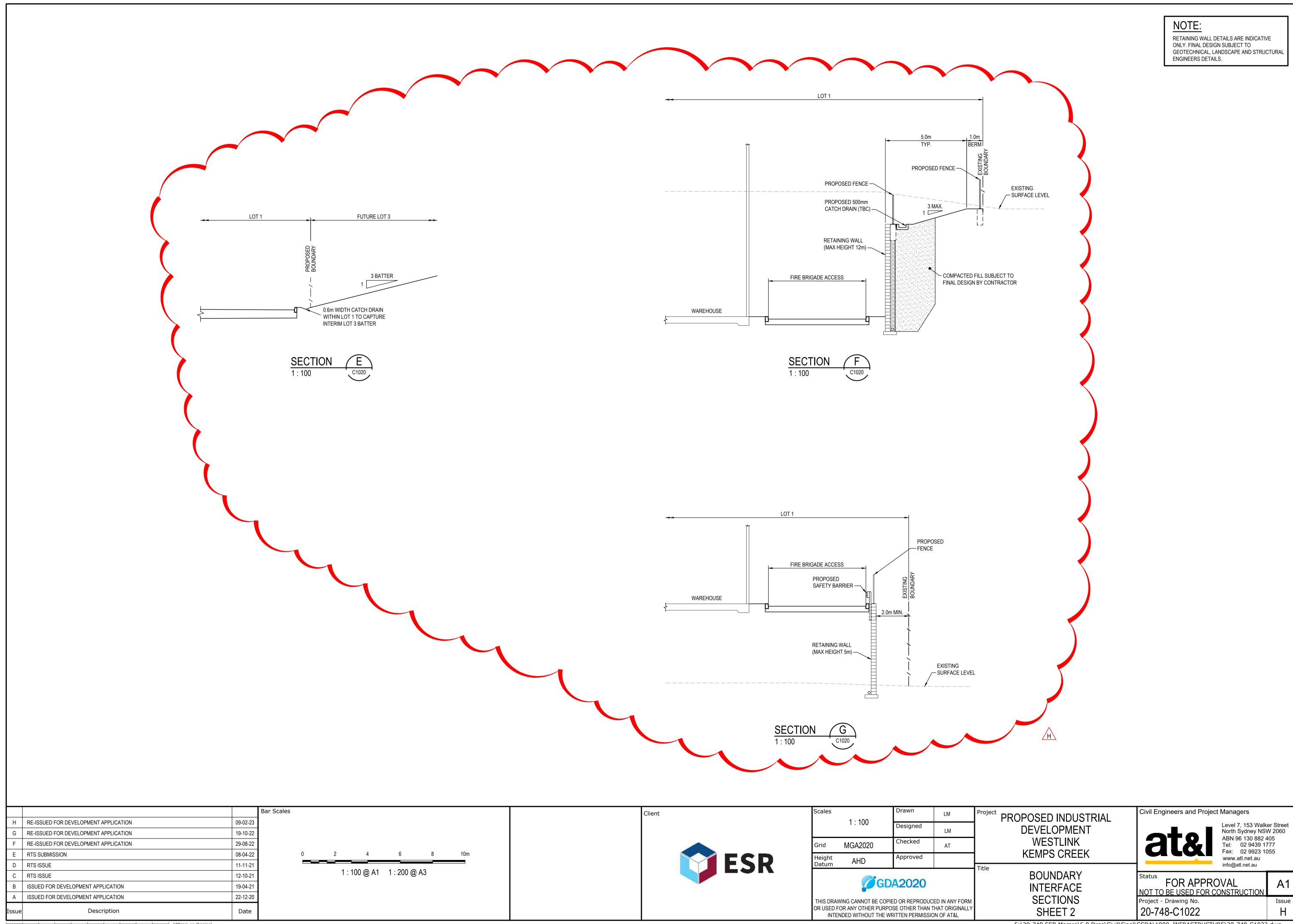
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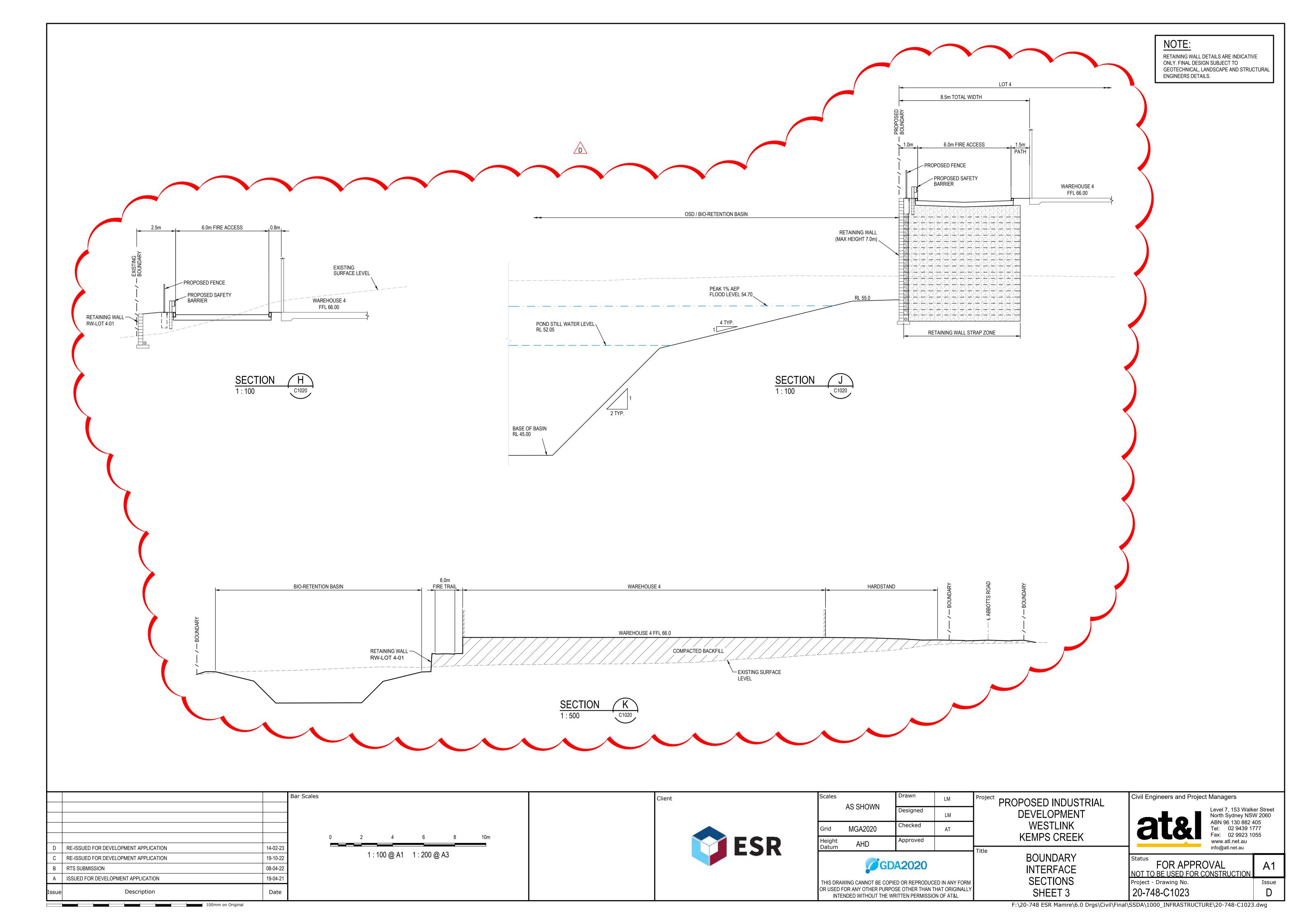
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Project - Drawing No.
20-748 C404 20-748-C1015

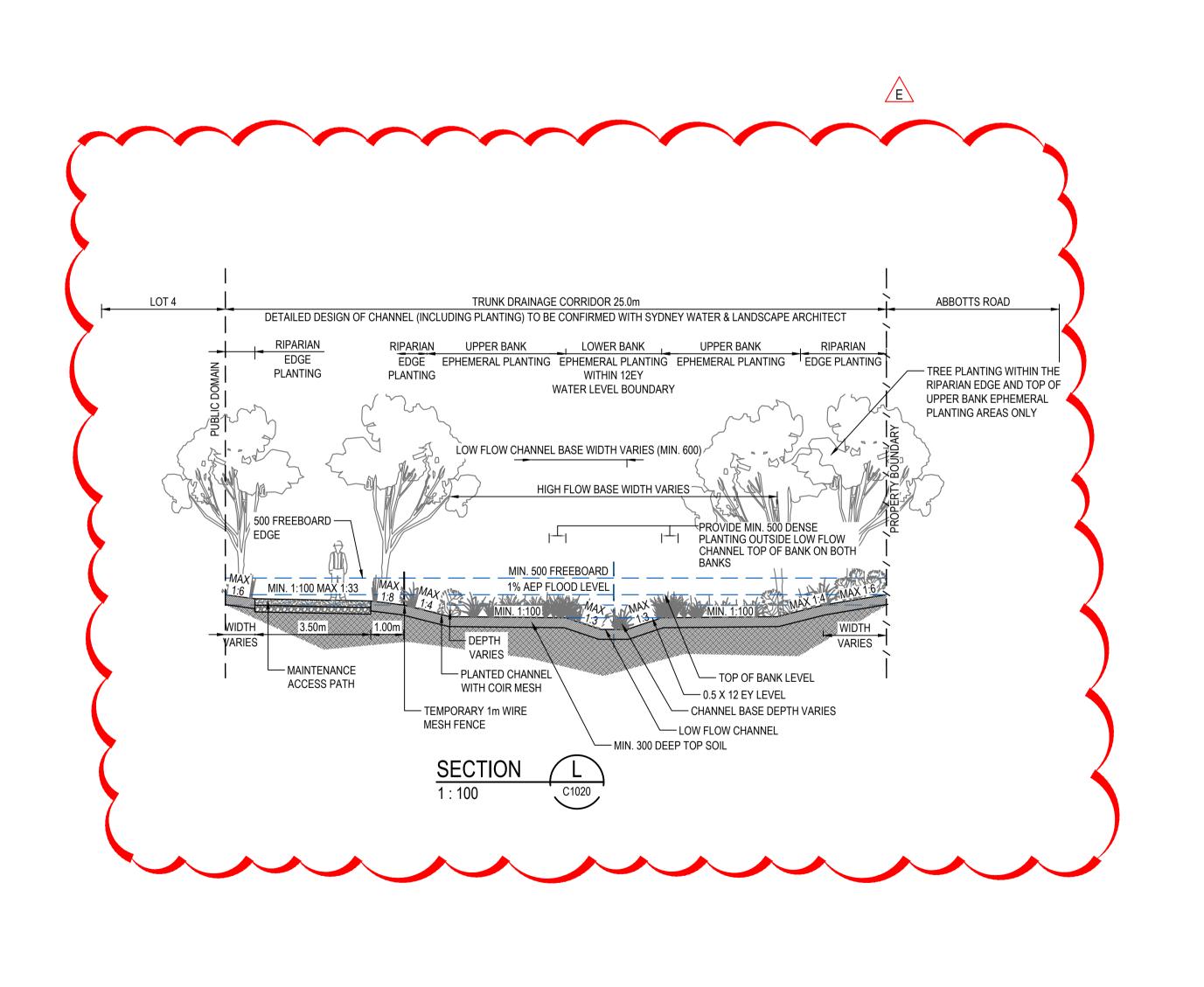
Civil Engineers and Project Managers



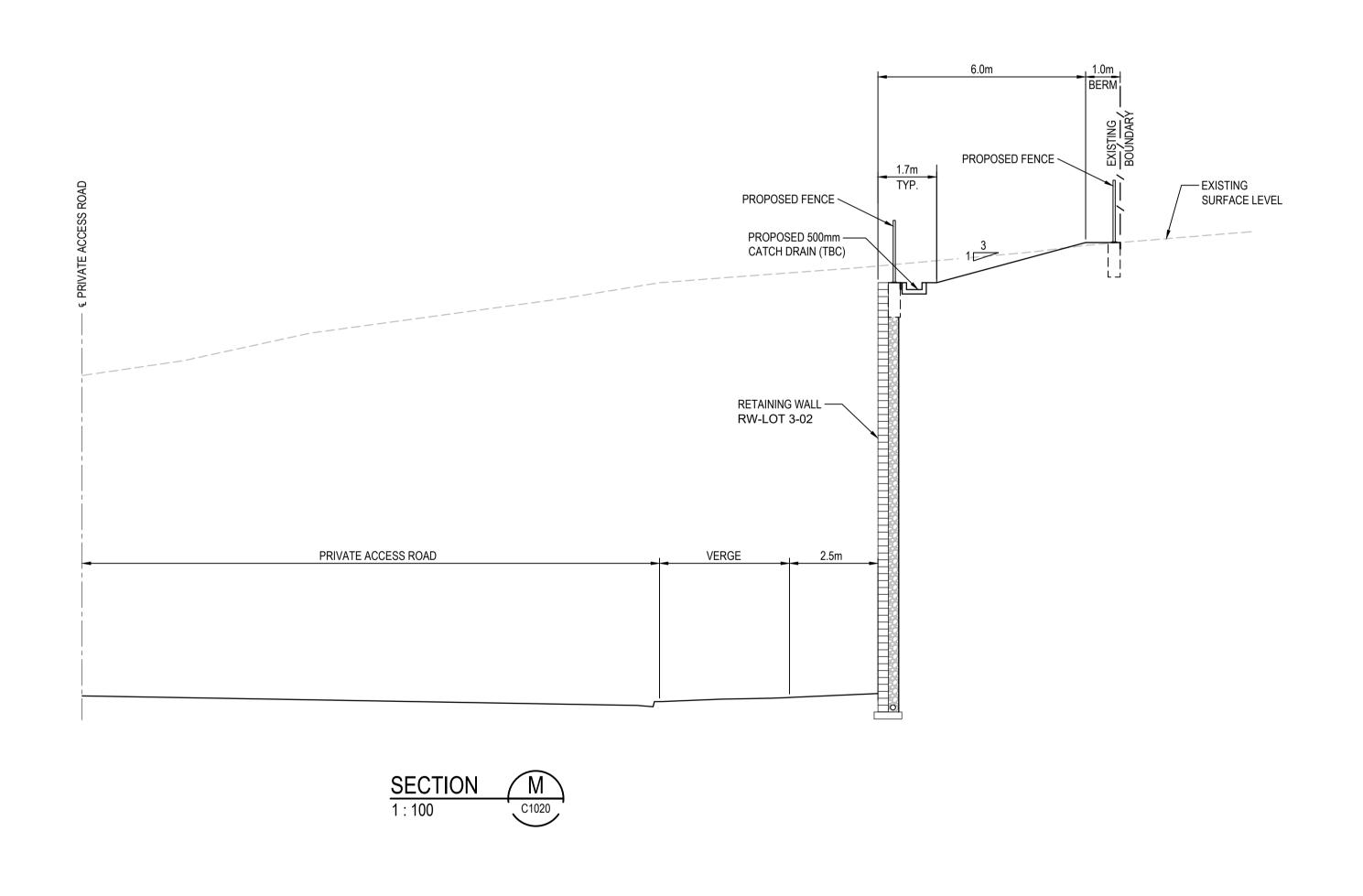








Bar Scales



Е	RE-ISSUED FOR DEVELOPMENT APPLICATION	14-02-23	
D	RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22	
С	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	
В	RTS SUBMISSION	08-04-22	
Α	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	
Issue	Description	Date	

100mm on Original

1:100 @ A1 1:200 @ A3 1:500 @ A1 1:1000 @ A3



Client

Scales	A C CLIOVANI	Drawn	LM	Pro
	AS SHOWN	Designed	LM	
Grid	MGA2020	Checked	AT	
Height Datum	AHD	Approved		

GDA2020

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PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

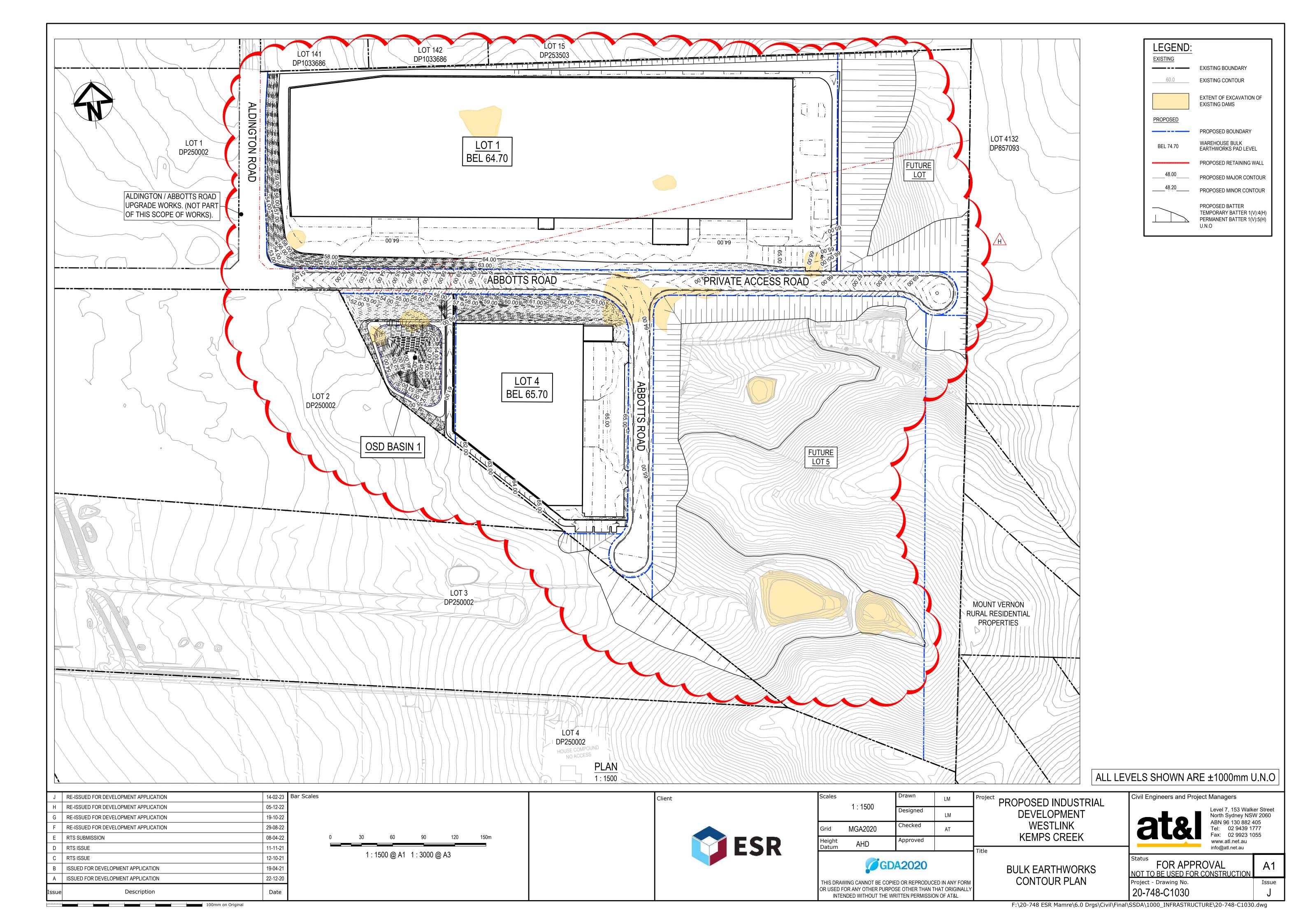
> BOUNDARY INTERFACE **SECTIONS** SHEET 4

Civil Engineers and Project Managers

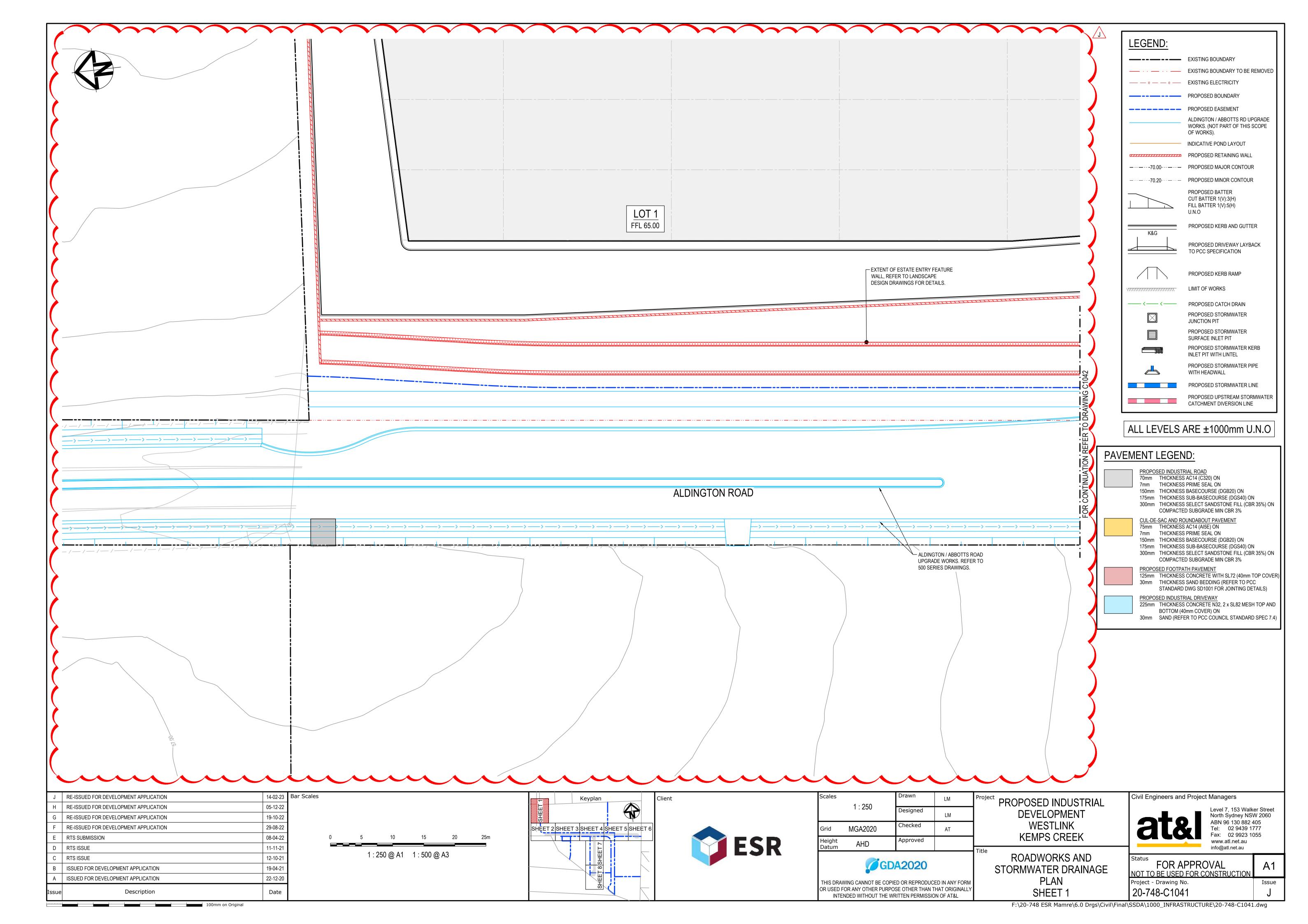
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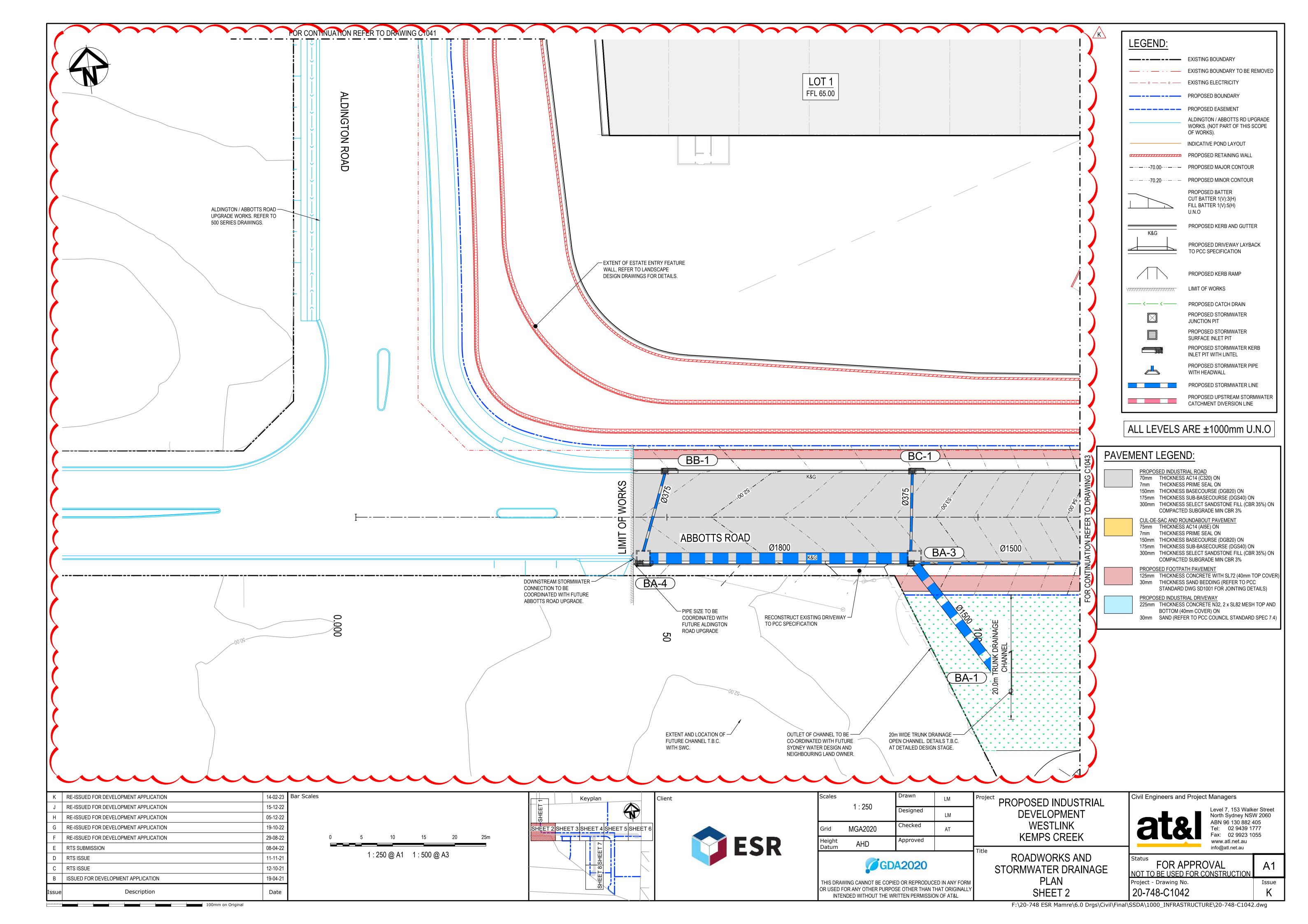
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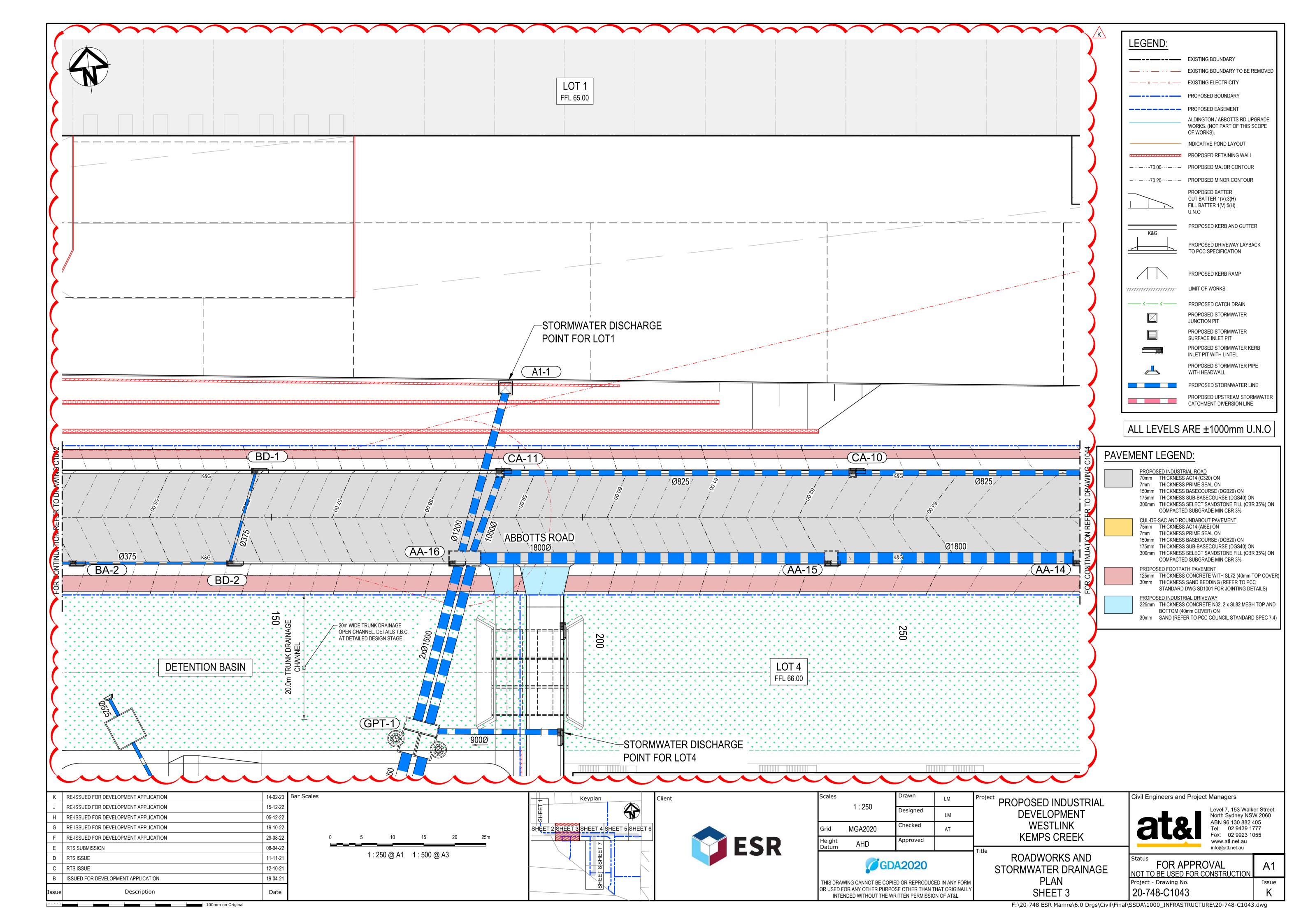
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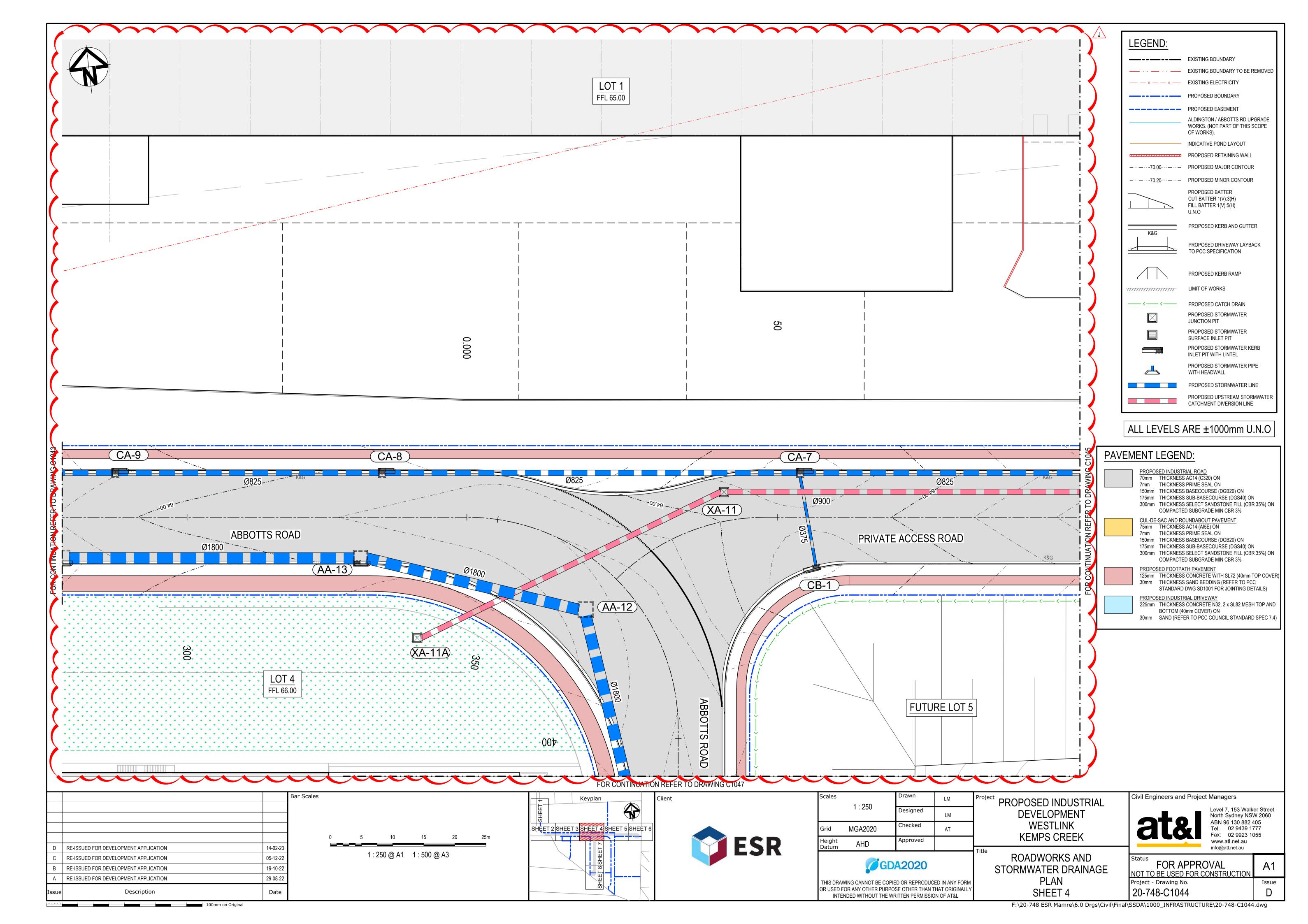


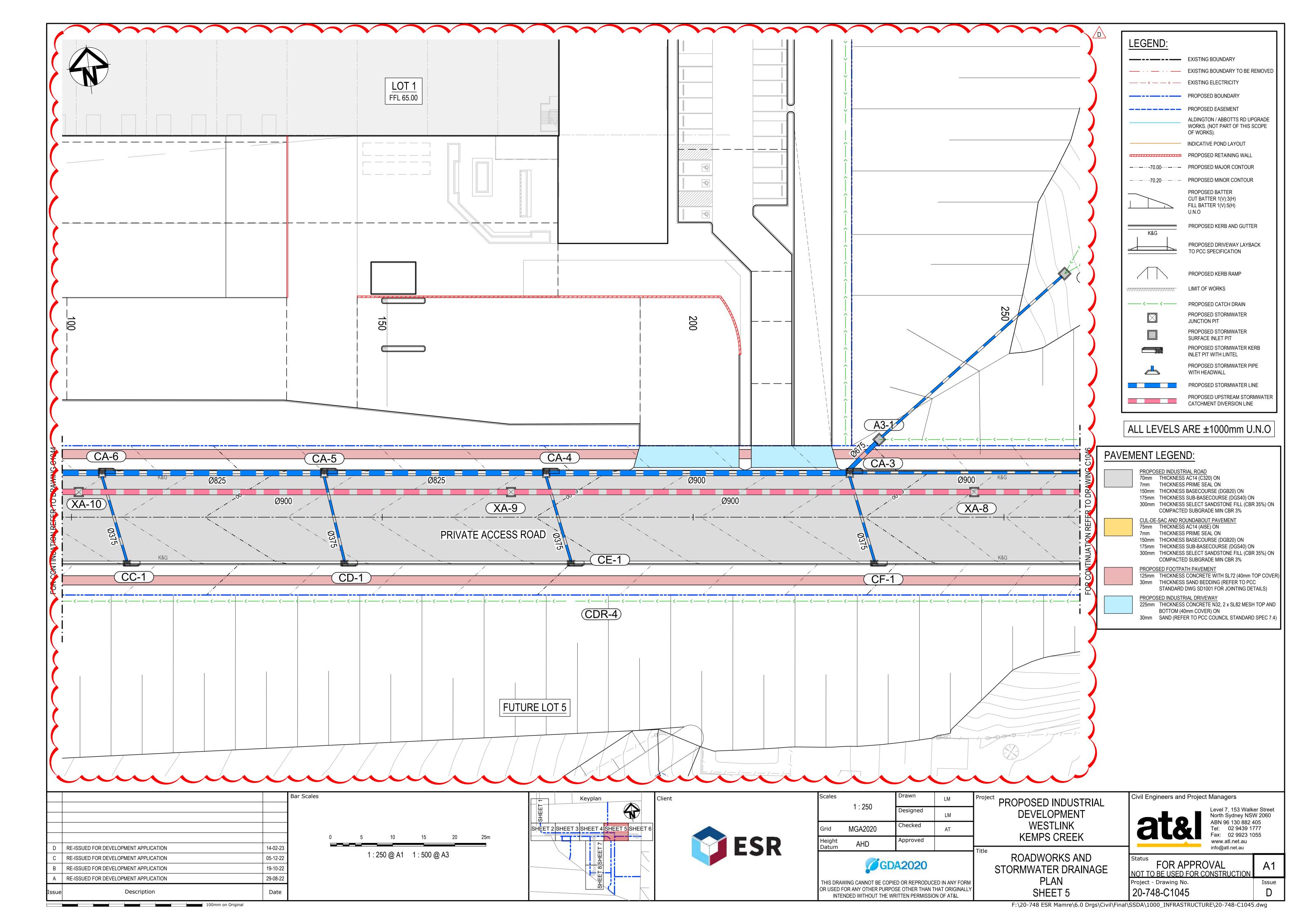


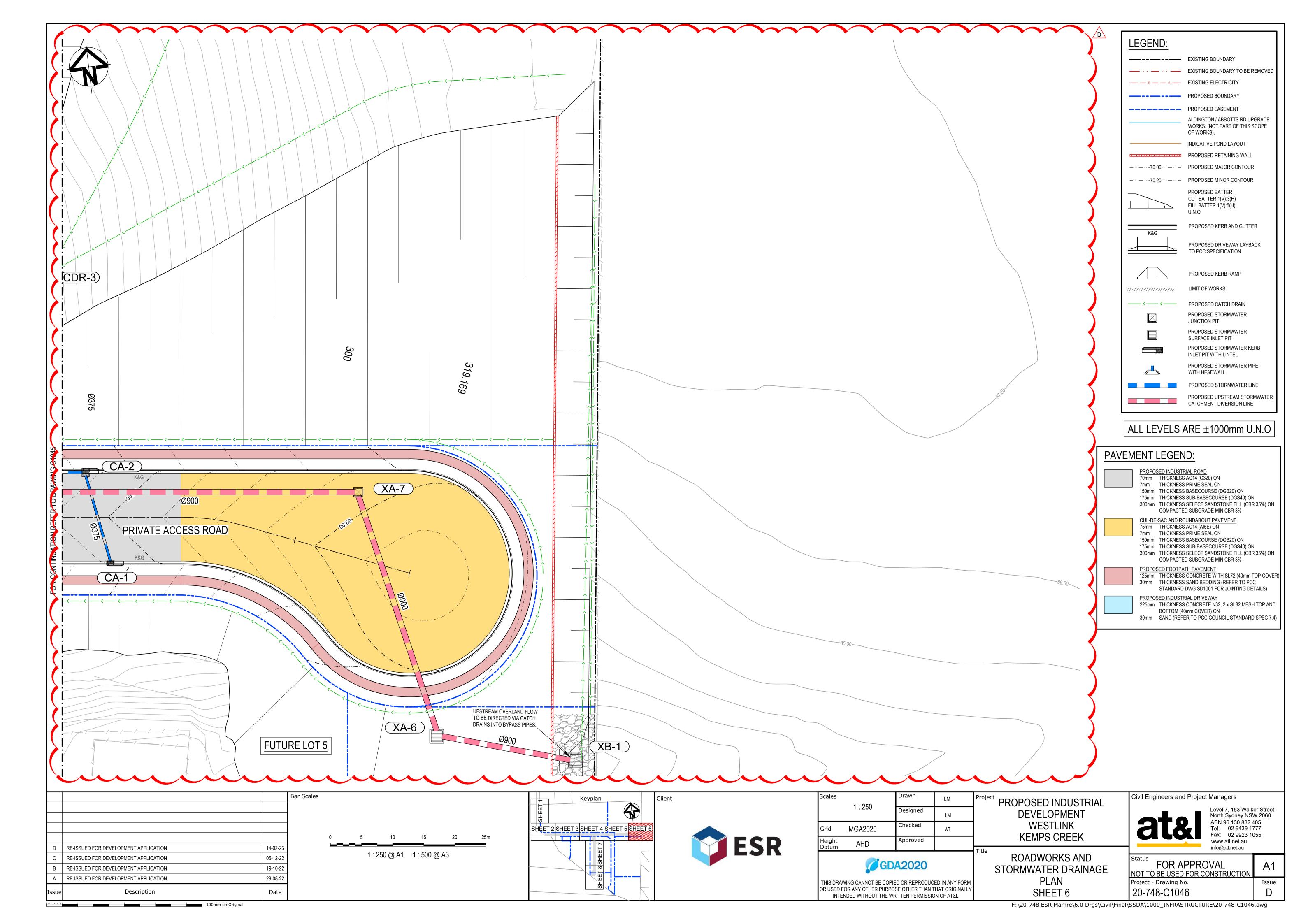


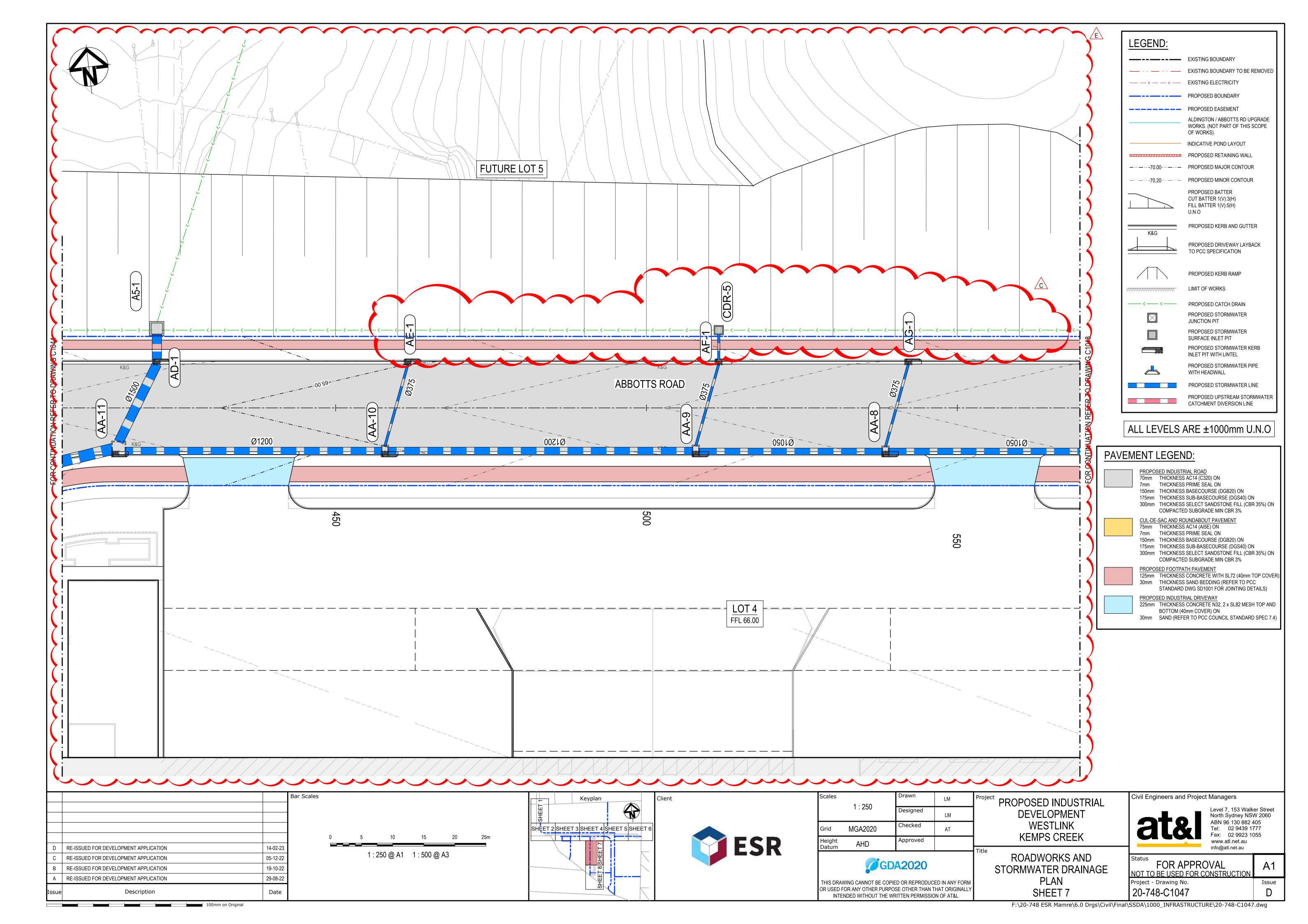


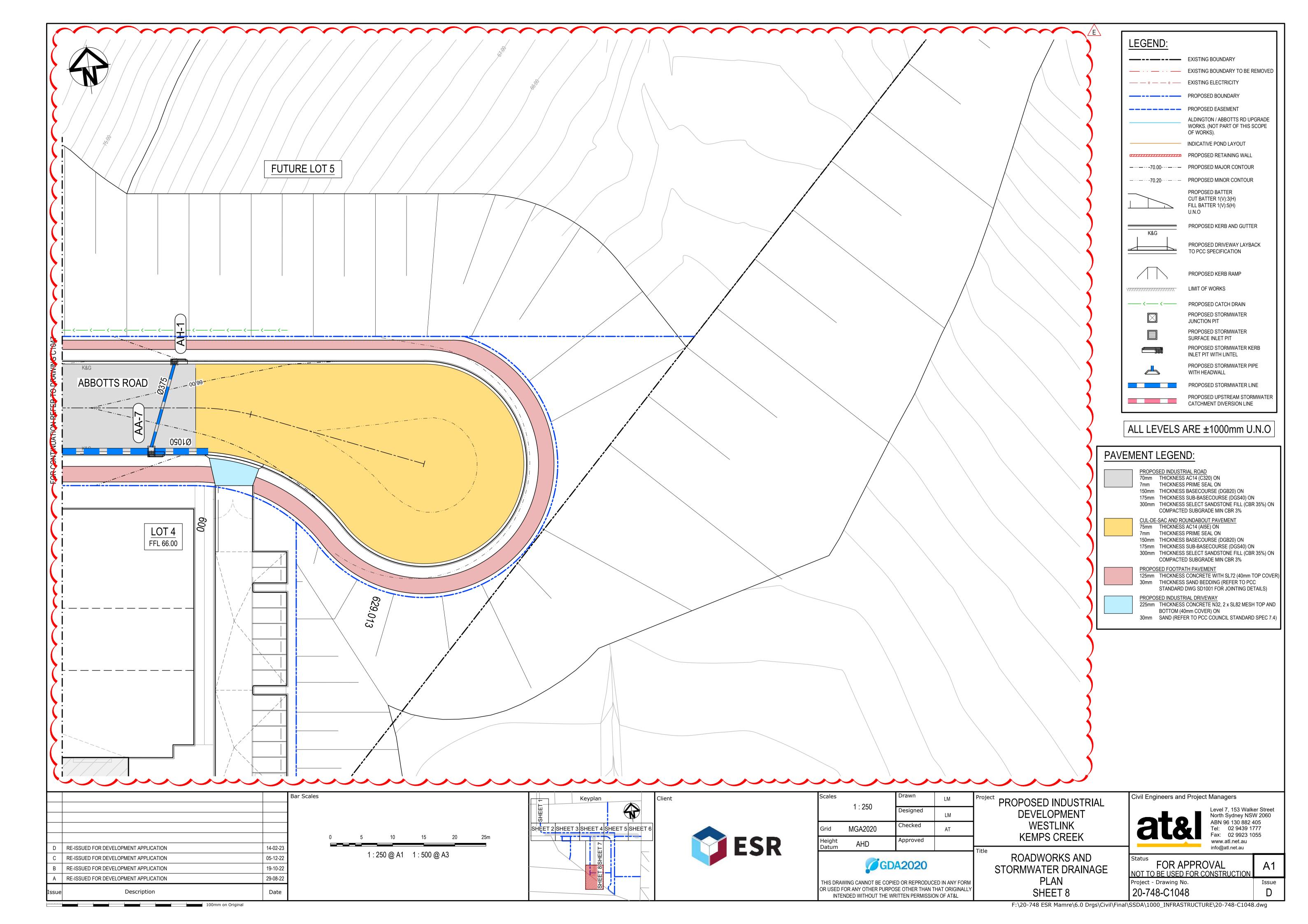


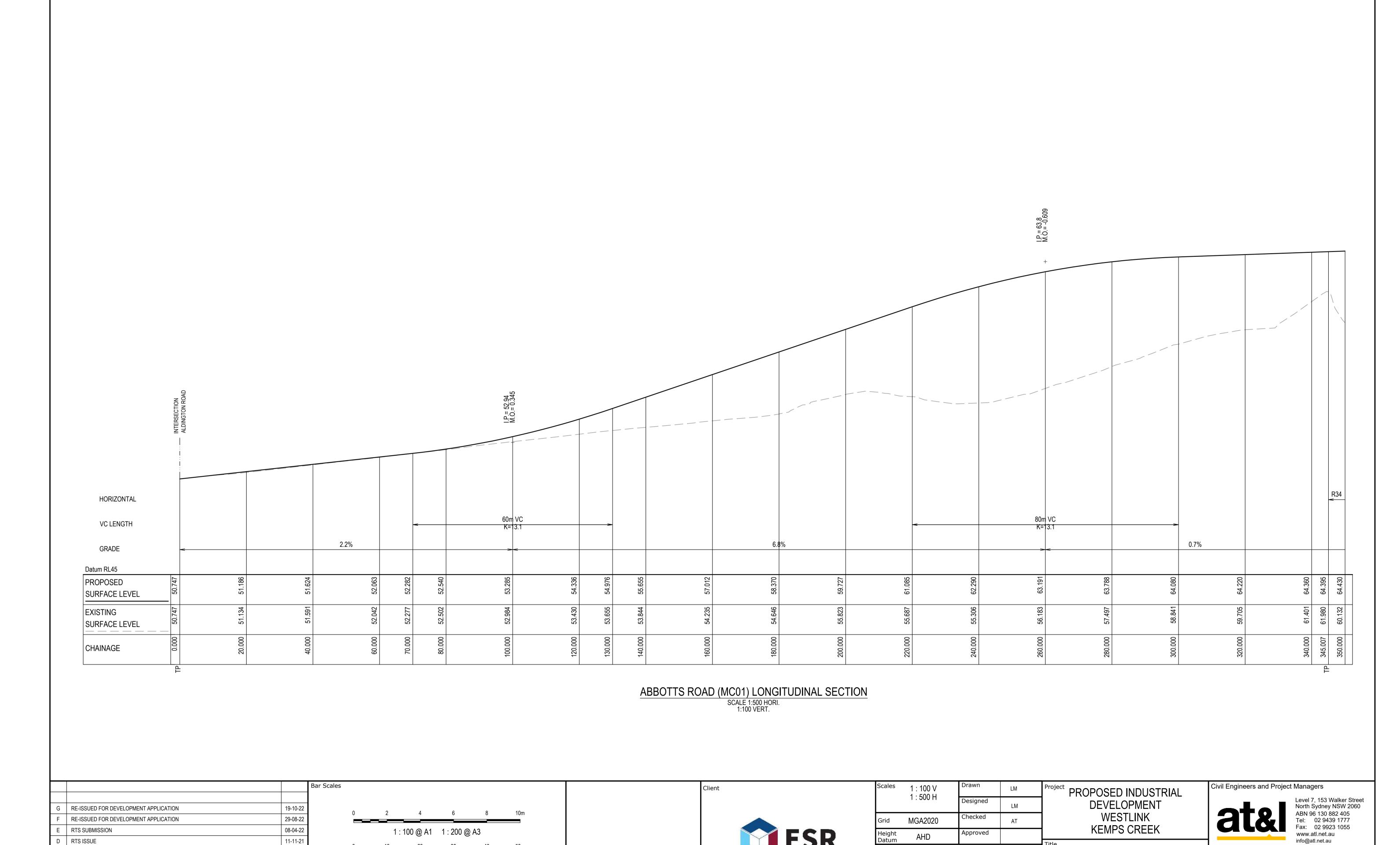












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11-11-21

12-10-21

19-04-21

22-12-20

Date

1 : 500 @ A1 1 : 1000 @ A3

D RTS ISSUE

C RTS ISSUE

ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION

Description

GDA2020

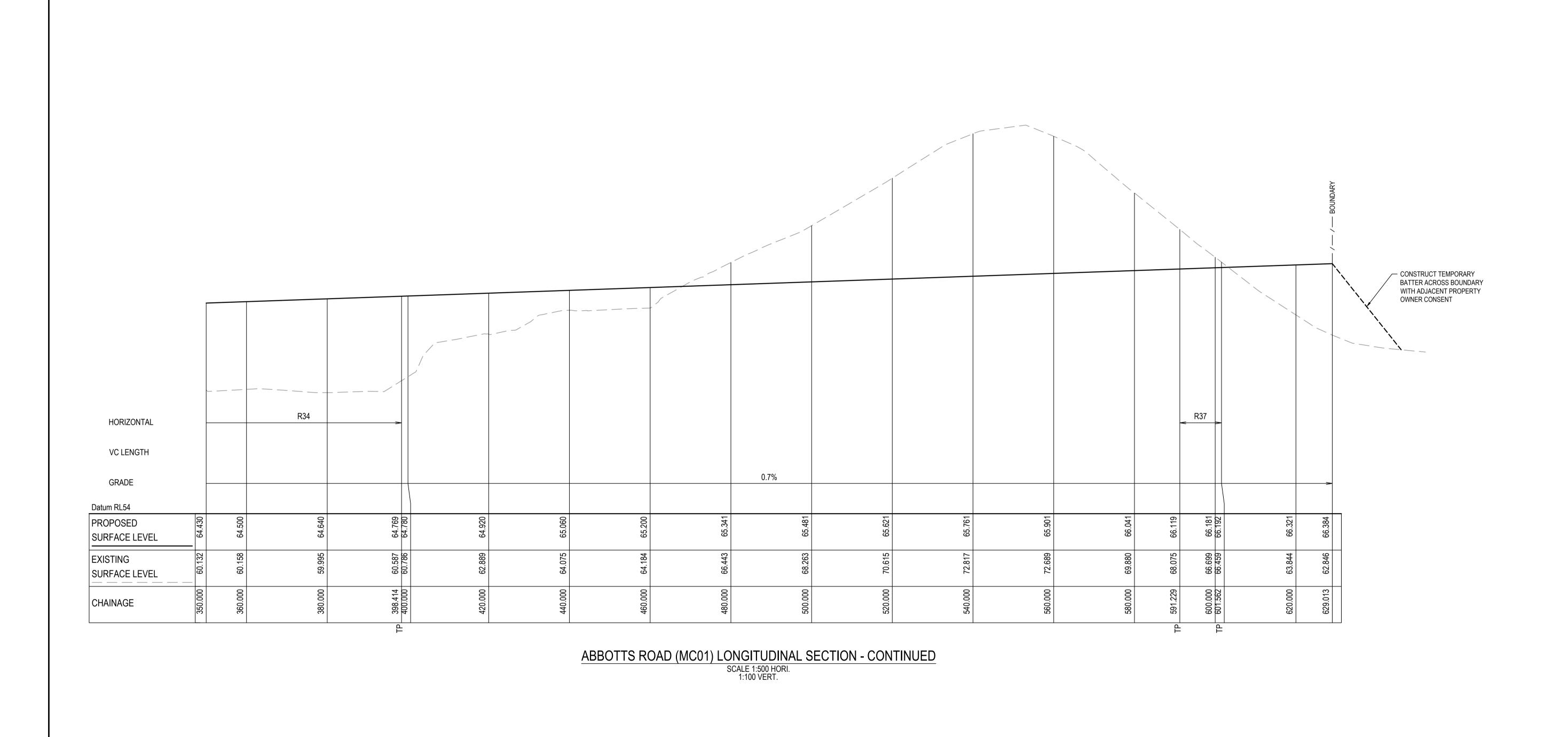
LONGITUDINAL SECTION

Title

ABBOTTS ROAD (MC01)

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.

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Client

Bar Scales

1:100 @ A1 1:200 @ A3

1:500 @ A1 1:1000 @ A3

19-10-22

29-08-22

08-04-22

11-11-21

12-10-21

19-04-21

22-12-20

Date

RE-ISSUED FOR DEVELOPMENT APPLICATION

RE-ISSUED FOR DEVELOPMENT APPLICATION

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ISSUED FOR DEVELOPMENT APPLICATION

Description

RTS SUBMISSION

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C RTS ISSUE

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Civil Engineers and Project Managers

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

Project - Drawing No.

20-748-C1051

Level 7, 153 Walker Street North Sydney NSW 2060

Issue

ABN 96 130 882 405

Tel: 02 9439 1777 Fax: 02 9923 1055

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

Project PROPOSED INDUSTRIAL

DEVELOPMENT

WESTLINK

KEMPS CREEK

ABBOTTS ROAD (MC01)

LONGITUDINAL SECTION

SHEET 2

1 : 100 V

1 : 500 H

MGA2020

LM

LM

Title

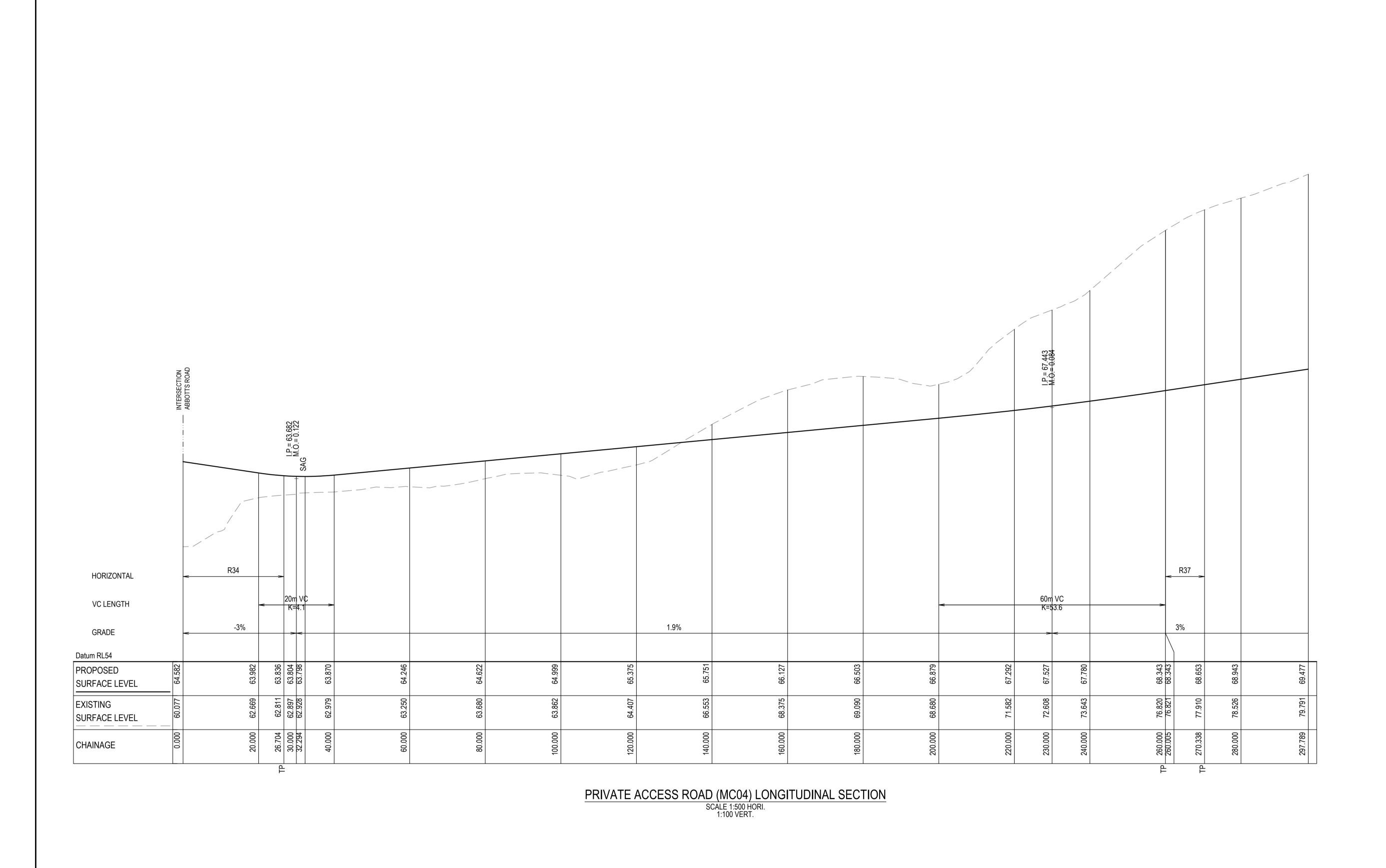
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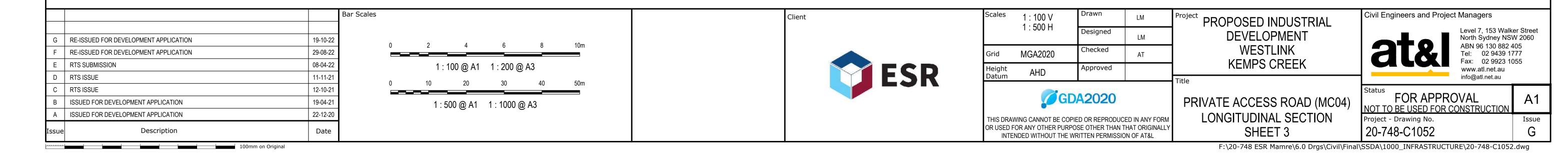
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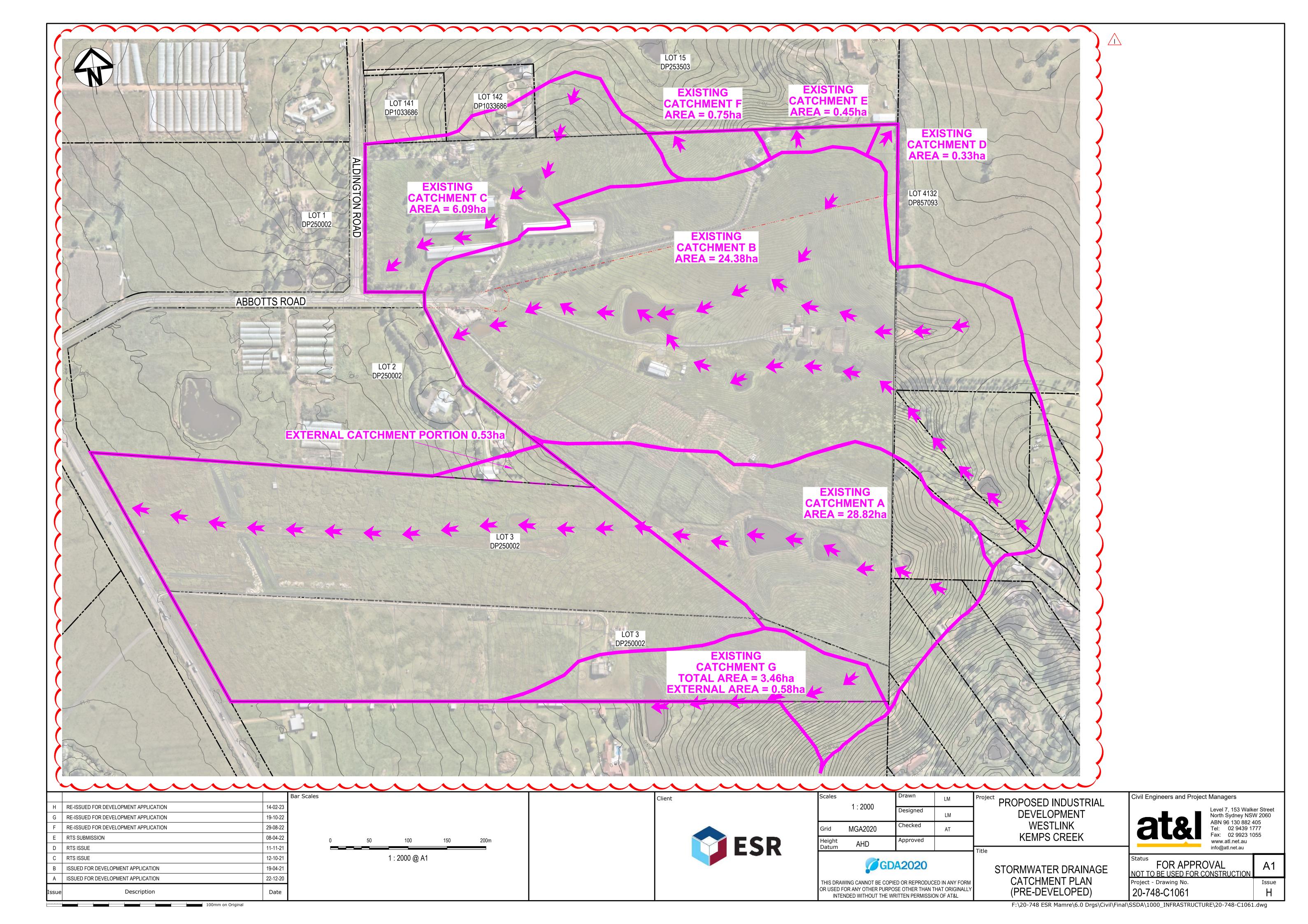
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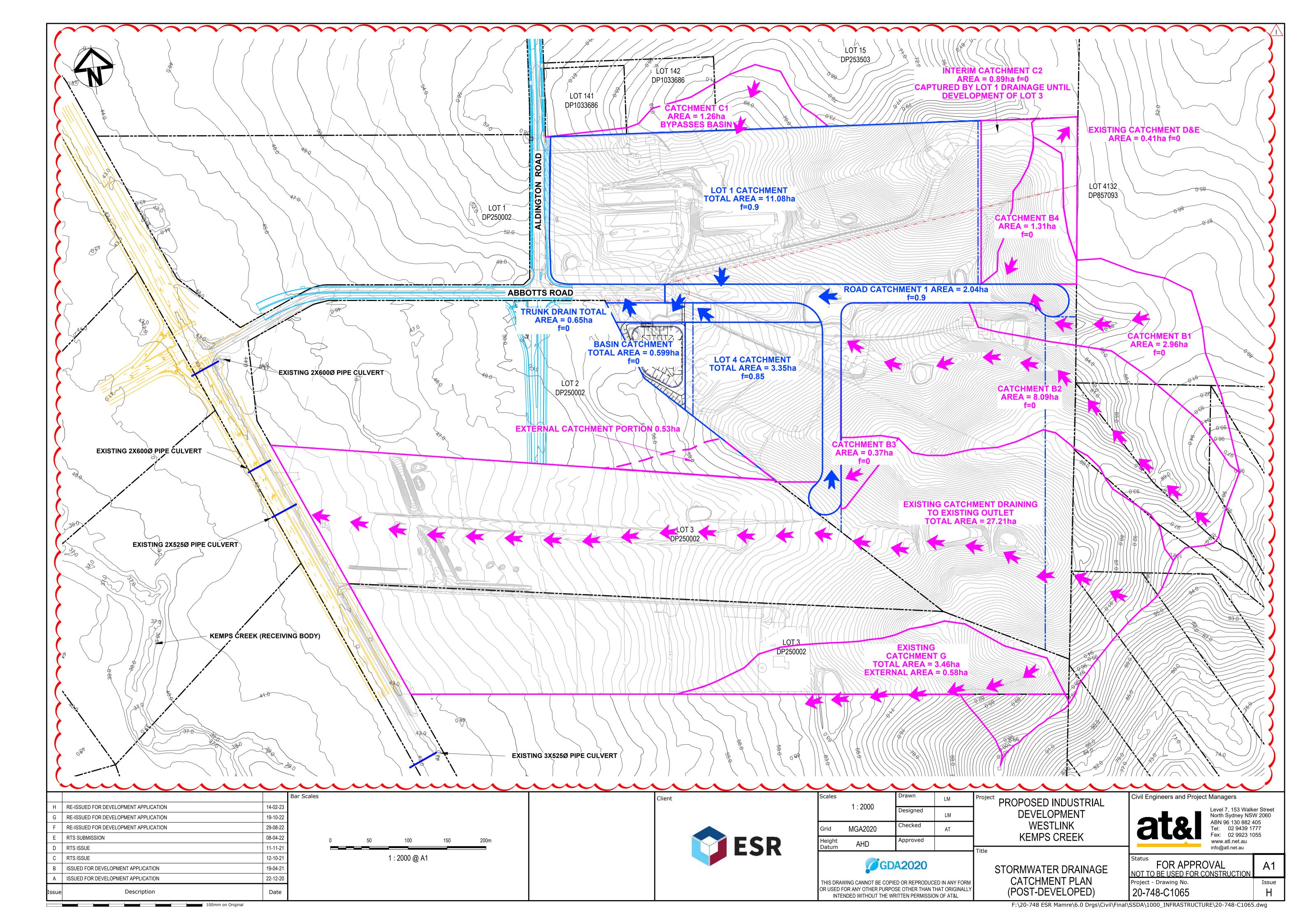
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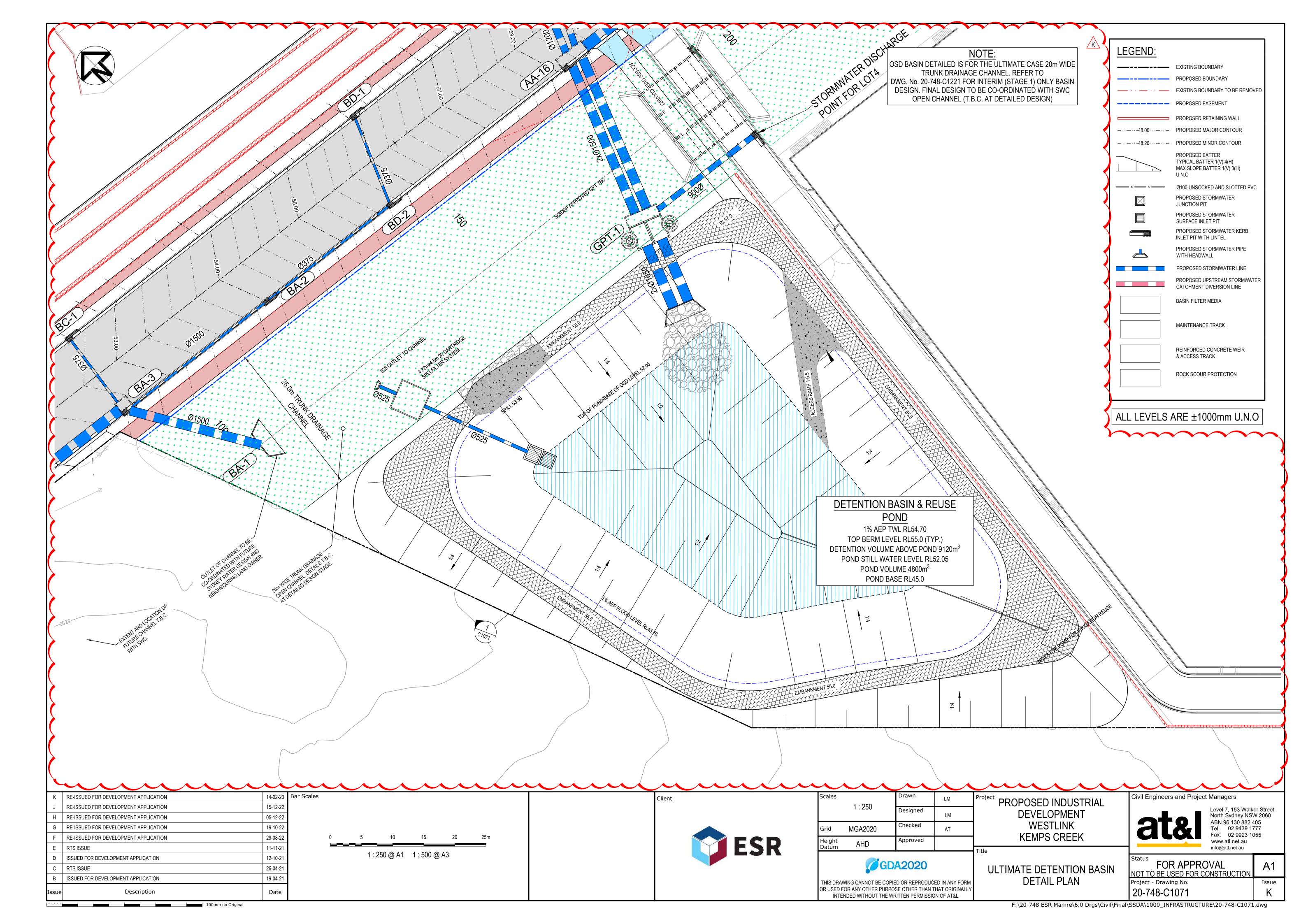
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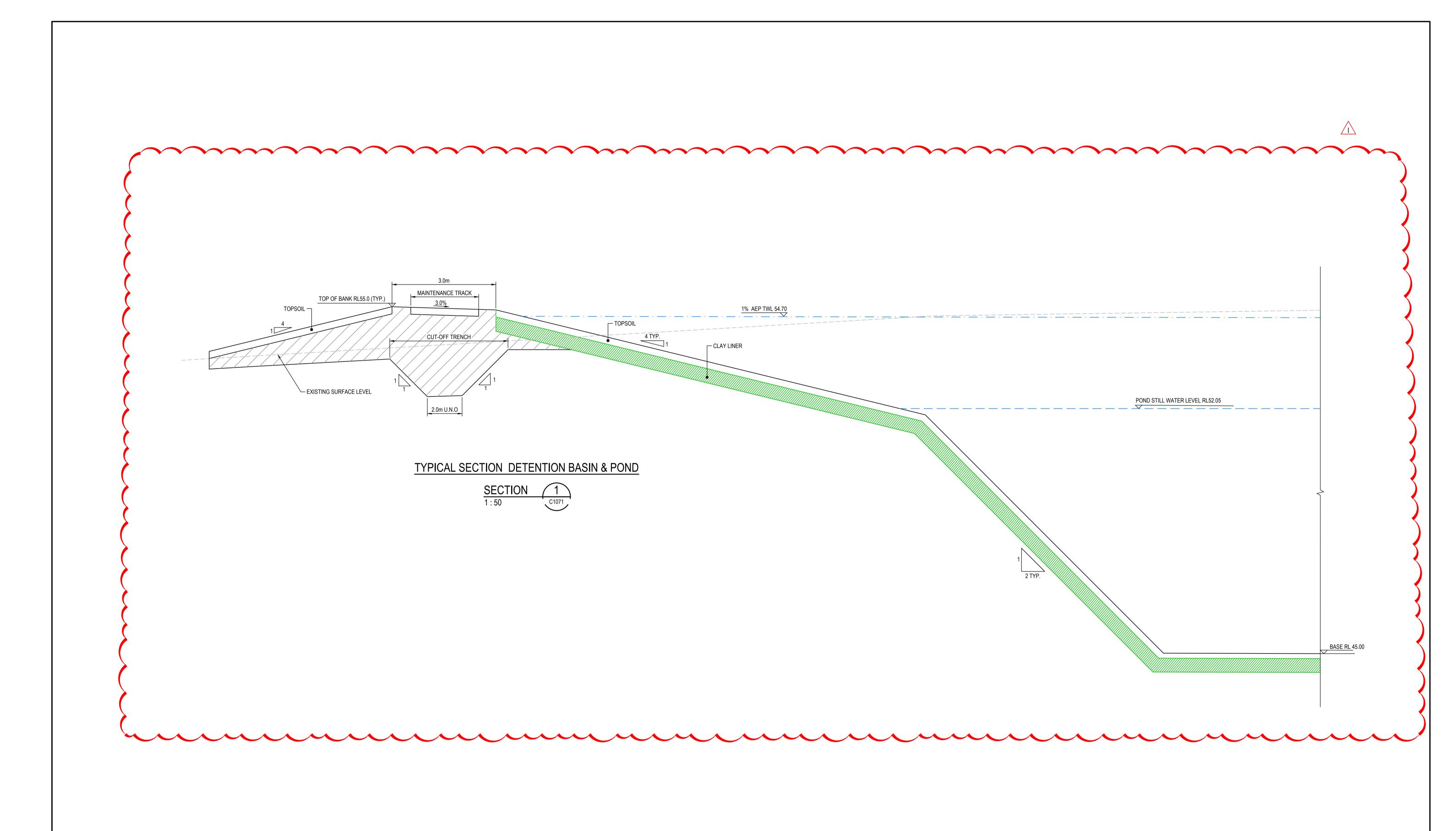




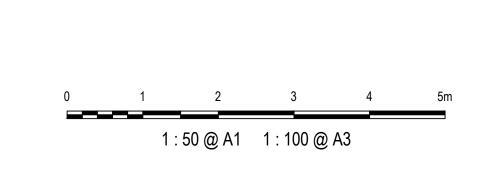








Н	RE-ISSUED FOR DEVELOPMENT APPLICATION	14-02-23
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Е	RTS ISSUE	11-11-21
D	ISSUED FOR DEVELOPMENT APPLICATION	12-10-21
С	RTS ISSUE	12-10-21
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
Α	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date





Client

Scales	1 : 50	Drawn	LM	Proje
	1.50	Designed	LM	
Grid	MGA2020	Checked	AT	
Height Datum	AHD	Approved		

GDA2020

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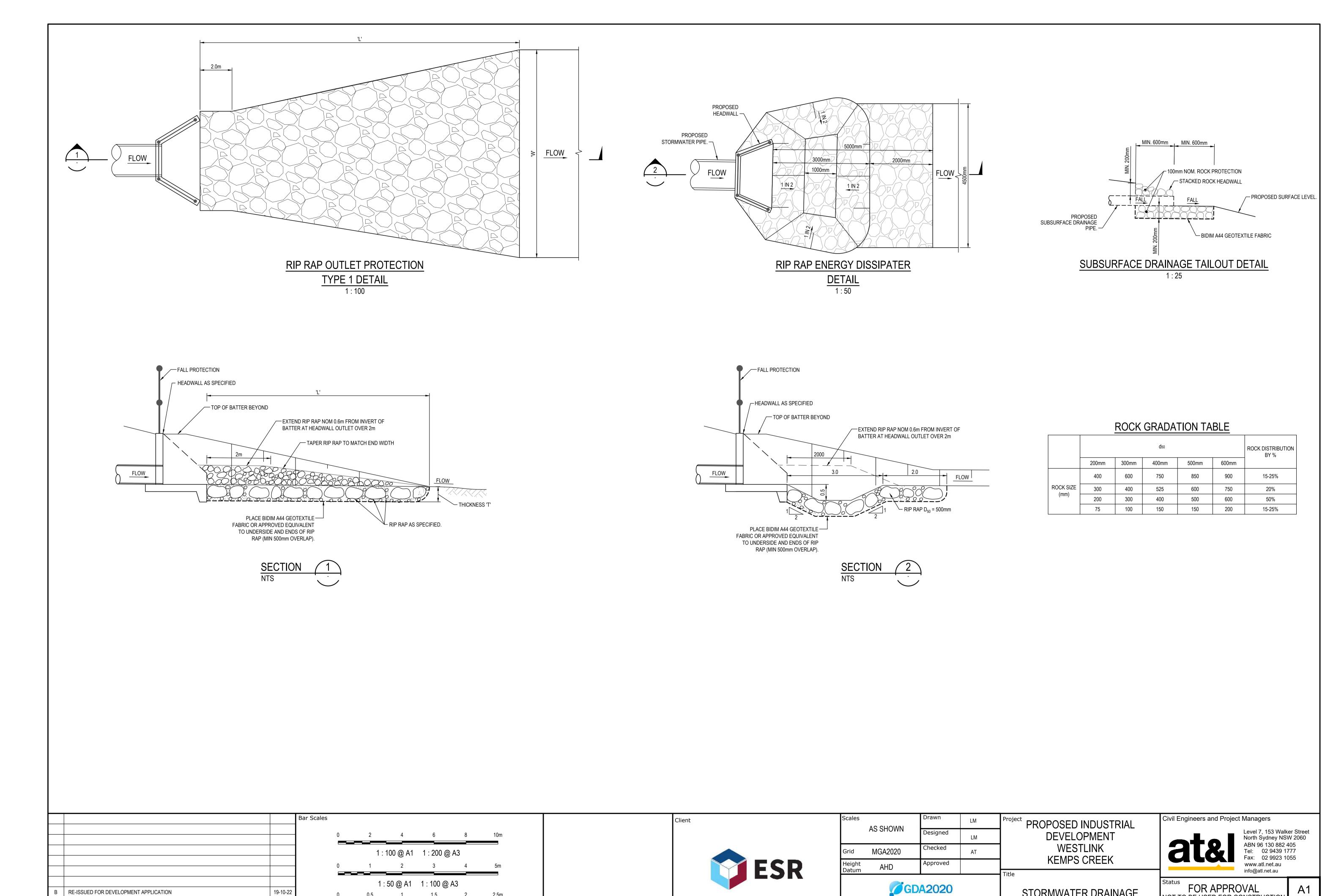
roject	PROPOSED INDUSTRIAL
	DEVELOPMENT
	WESTLINK
	KEMPS CREEK

DETENTION BASIN & POND SECTION

Civil Engineers and Proje	ct Mana
atol	Level North ABN

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

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	Issue
20-748-C1072	Н



RE-ISSUED FOR DEVELOPMENT APPLICATION

RE-ISSUED FOR DEVELOPMENT APPLICATION

Description

19-10-22

29-08-22

Date

0.5 1 1.5 2 2.5m

1:25 @ A1 1:50 @ A3

STORMWATER DRAINAGE

DETAILS

SHEET 1

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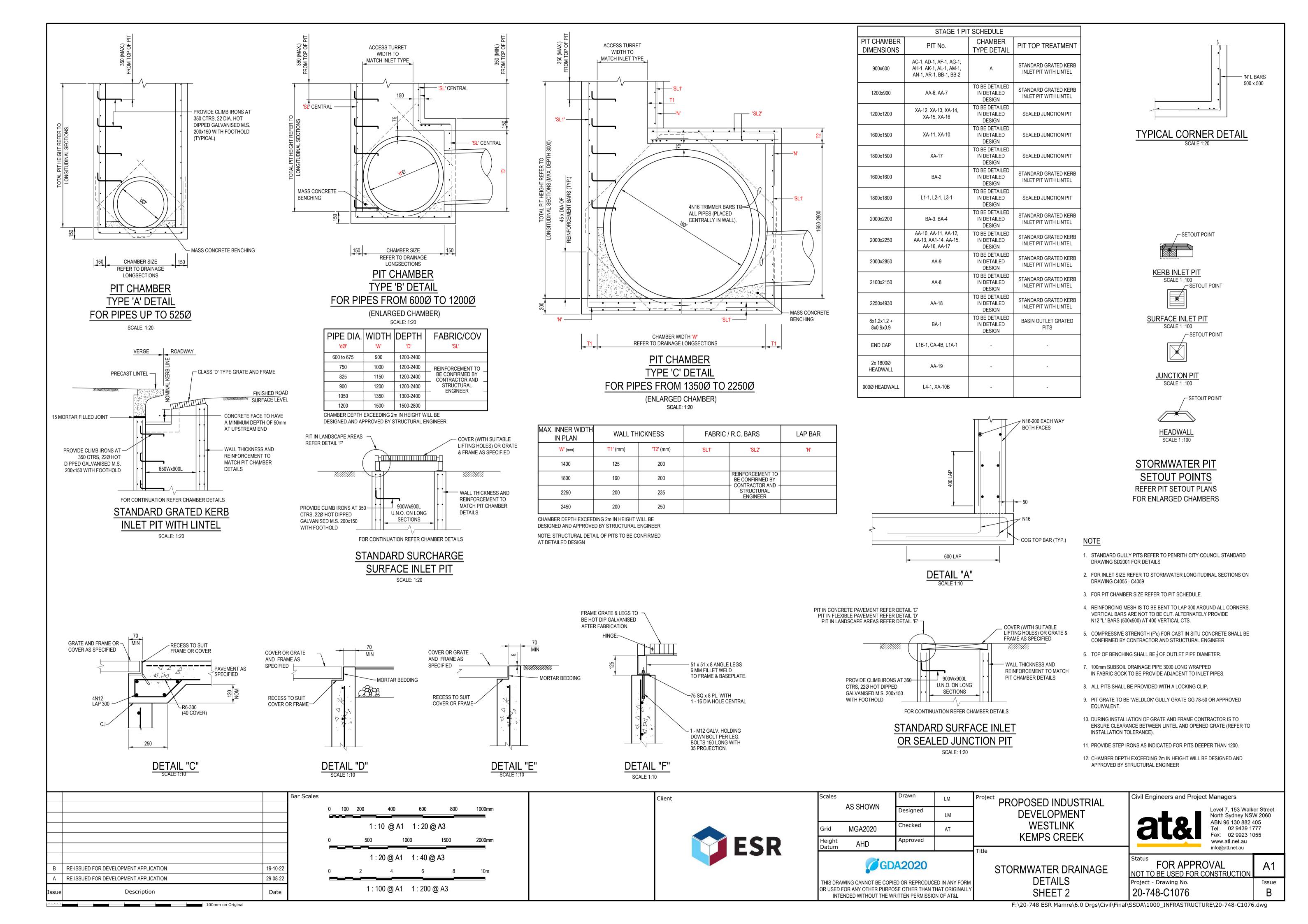
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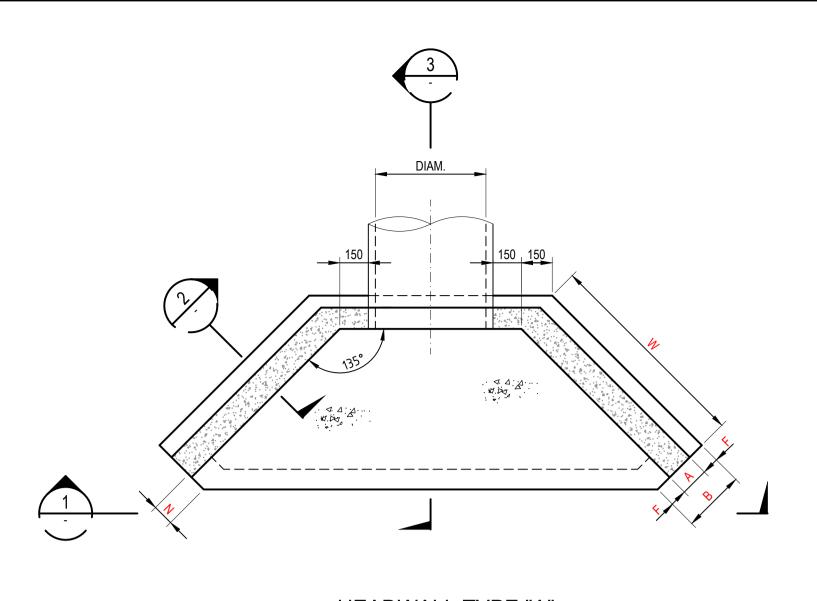
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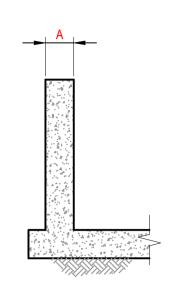
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Project - Drawing No.

20-748-C1075

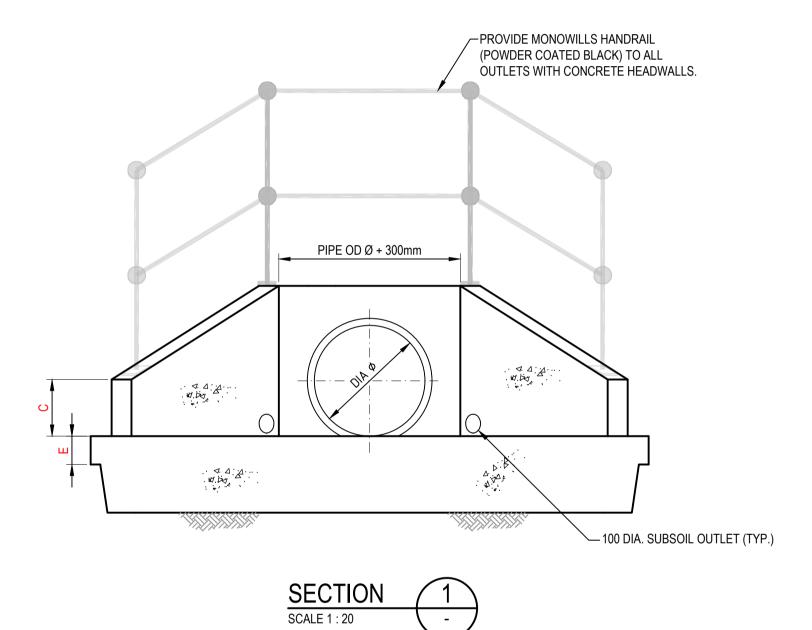


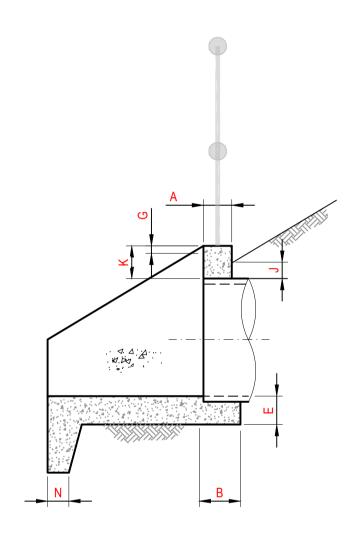












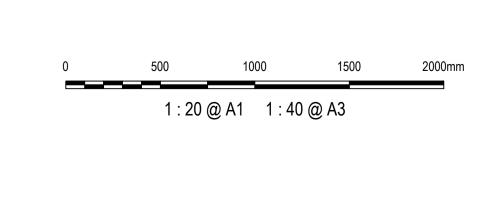
SECTION	3
SCALE 1 : 20	

HEADWALL TYPE "A" - SINGLE PIPE															
PIPE DIAMETER	300	375	450	525	600	675	750	825	900	1050	1200	1350	1500	1650	1800
А	150	150	150	175	175	175	200	200	225	225	225	250	250	250	250
В	300	300	300	375	375	375	450	450	525	525	525	550	550	550	550
С	300	300	300	300	350	350	350	350	350	350	350	350	350	350	350
D	375	375	375	375	530	530	530	530	530	530	530	530	530	530	530
E	150	150	150	150	175	175	200	200	225	225	225	225	225	225	225
F	75	75	75	100	100	100	125	125	150	150	150	150	150	150	150
G	40	40	40	40	50	50	50	50	50	50	50	50	50	50	50
J	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
К	200	200	200	200	300	300	300	300	300	300	300	300	300	300	300
N	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
W	700	700	850	1000	1100	1300	1450	1600	1750	1950	2200	2500	2700	2800	2900

- NOTES
 COMPRESSIVE STRENGTH (Fc) FOR CAST-IN-SITU CONCRETE TO BE A MINIMUM OF 32mPa AT 28 DAYS.
- 25mm CHAMFER ON ALL EXPOSED SURFACES.
- CONTRACTOR TO DESIGN AND PROVIDE STRUCTURAL CERTIFICATE FOR ALL PITS / END STRUCTURES
- UNLESS ADAPTING PENRITH CITY COUNCIL STANDARD DETAILS WHERE APPLICABLE. - ANTI GRAFFITI PAINT TO BE APPLIED TO FACE OF ALL HEADWALLS

			Bar Scales
В	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	
Α	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	
Issue	Description	Date	

100mm on Original





Client

Scales	AS SHOWN	Drawn	LM	Proje
		Designed	LM	
Grid	MGA2020	Checked	AT	
Height Datum	AHD	Approved		

GDA2020

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PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK

DETAILS

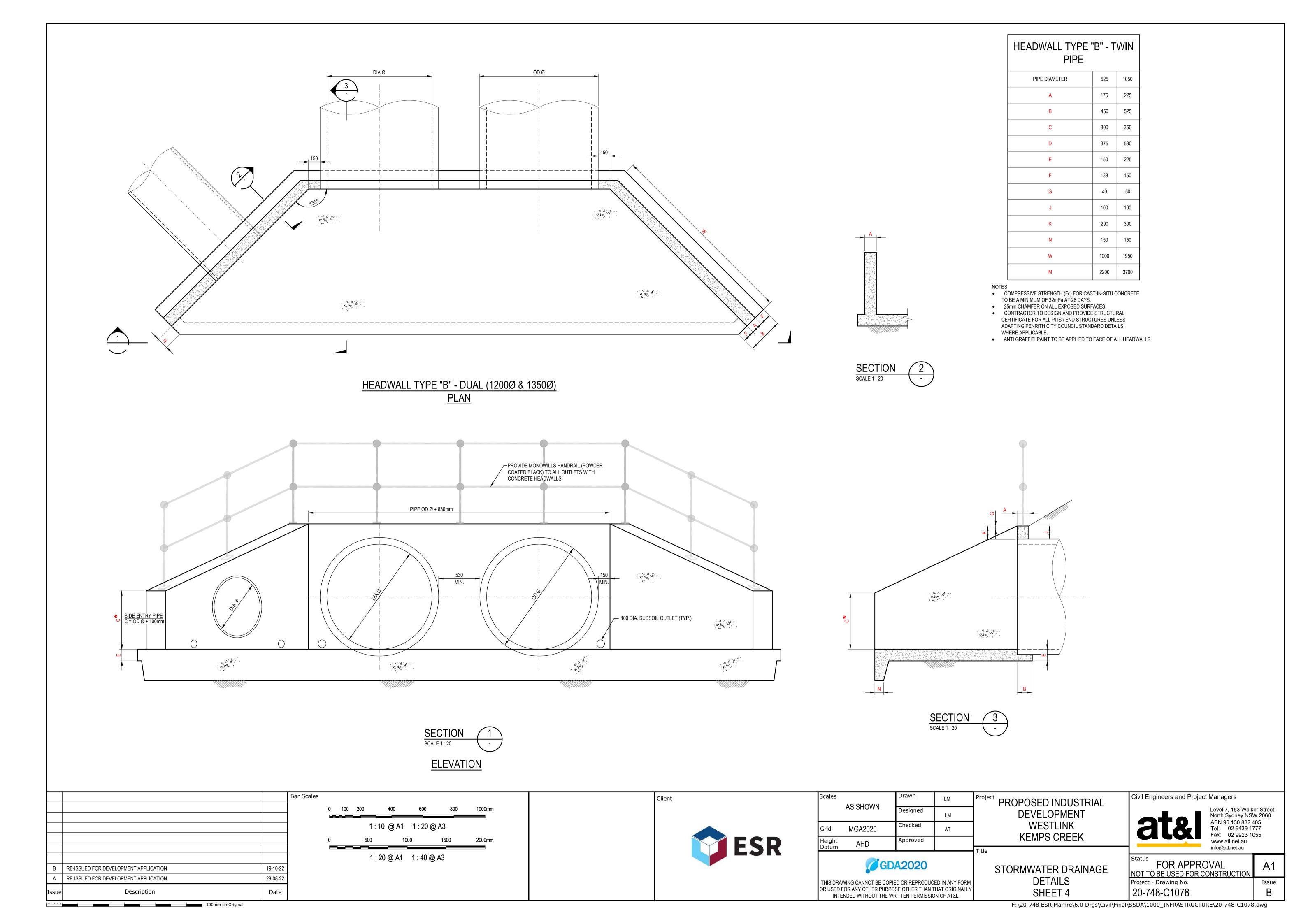
SHEET 3

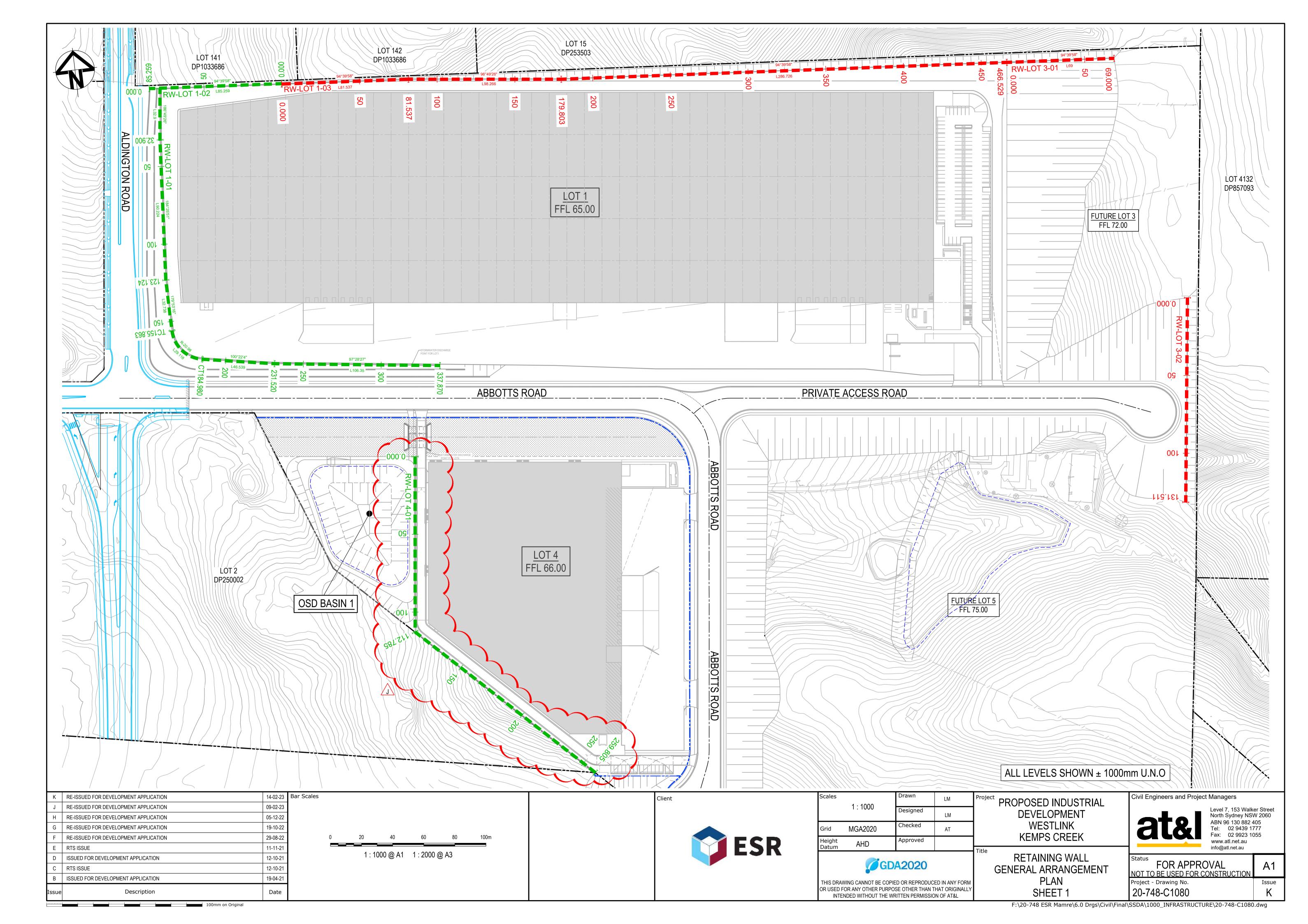
Civil Engineers and Project Managers

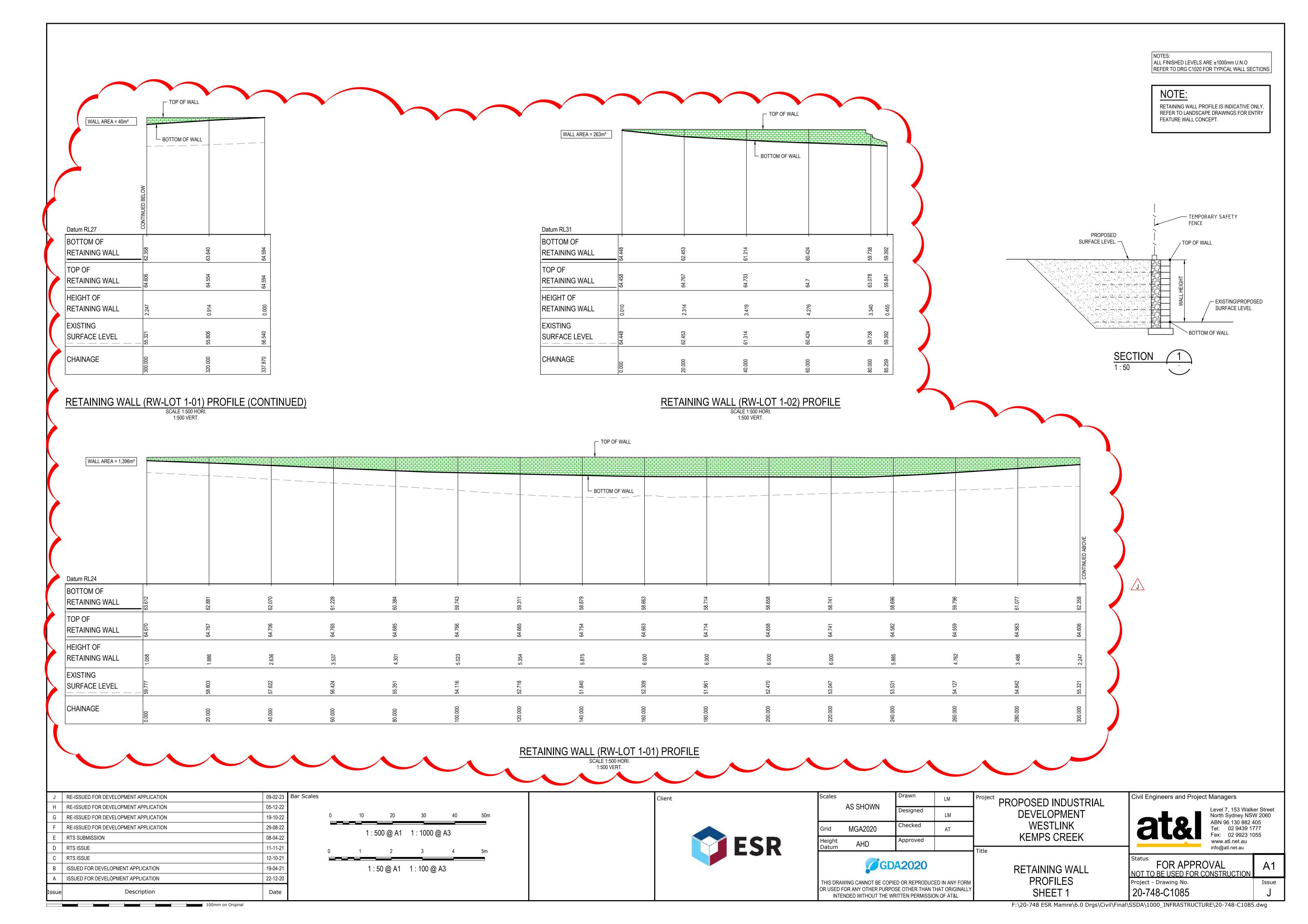
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au

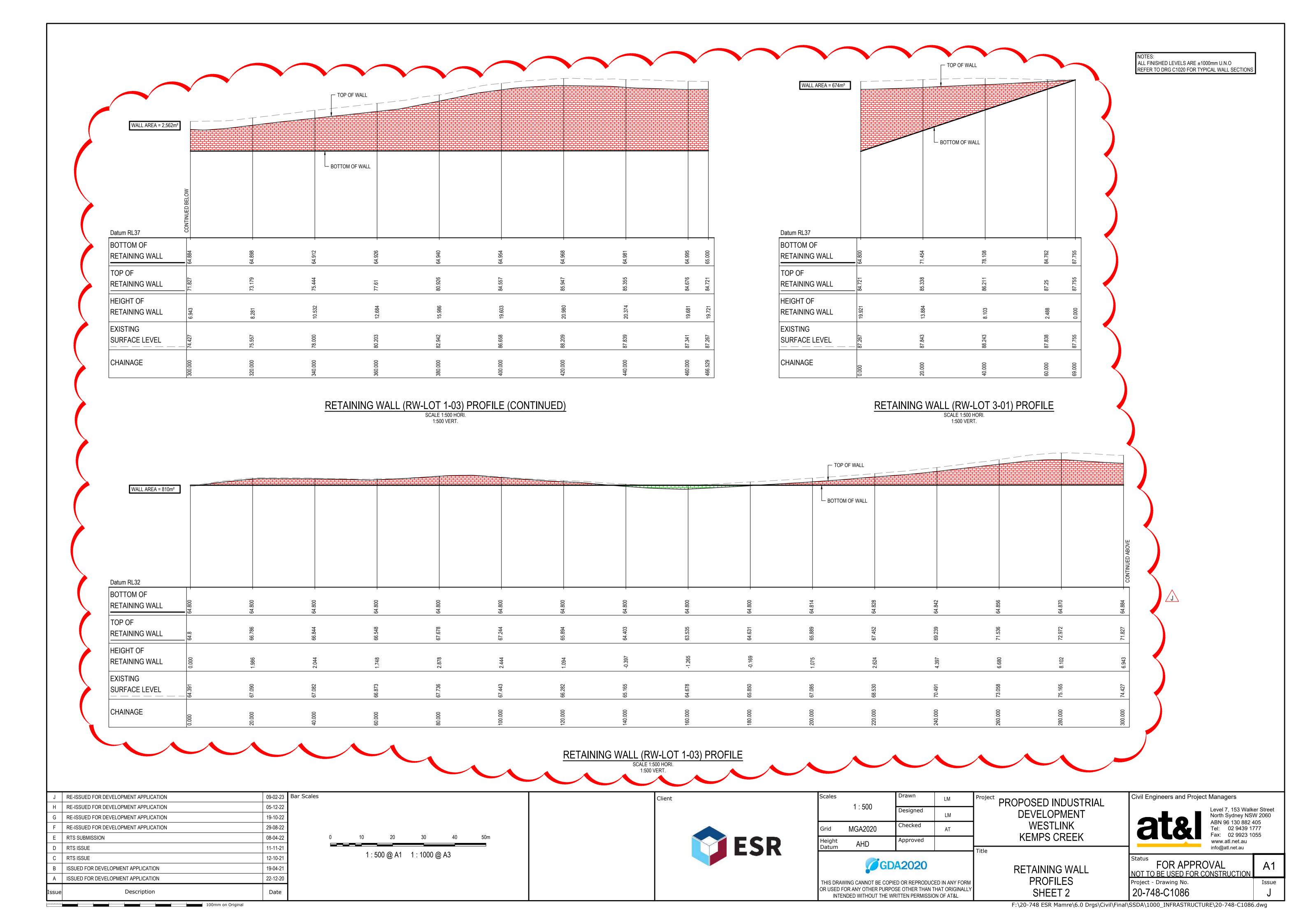
STORMWATER DRAINAGE Project - Drawing No.

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION 20-748-C1077

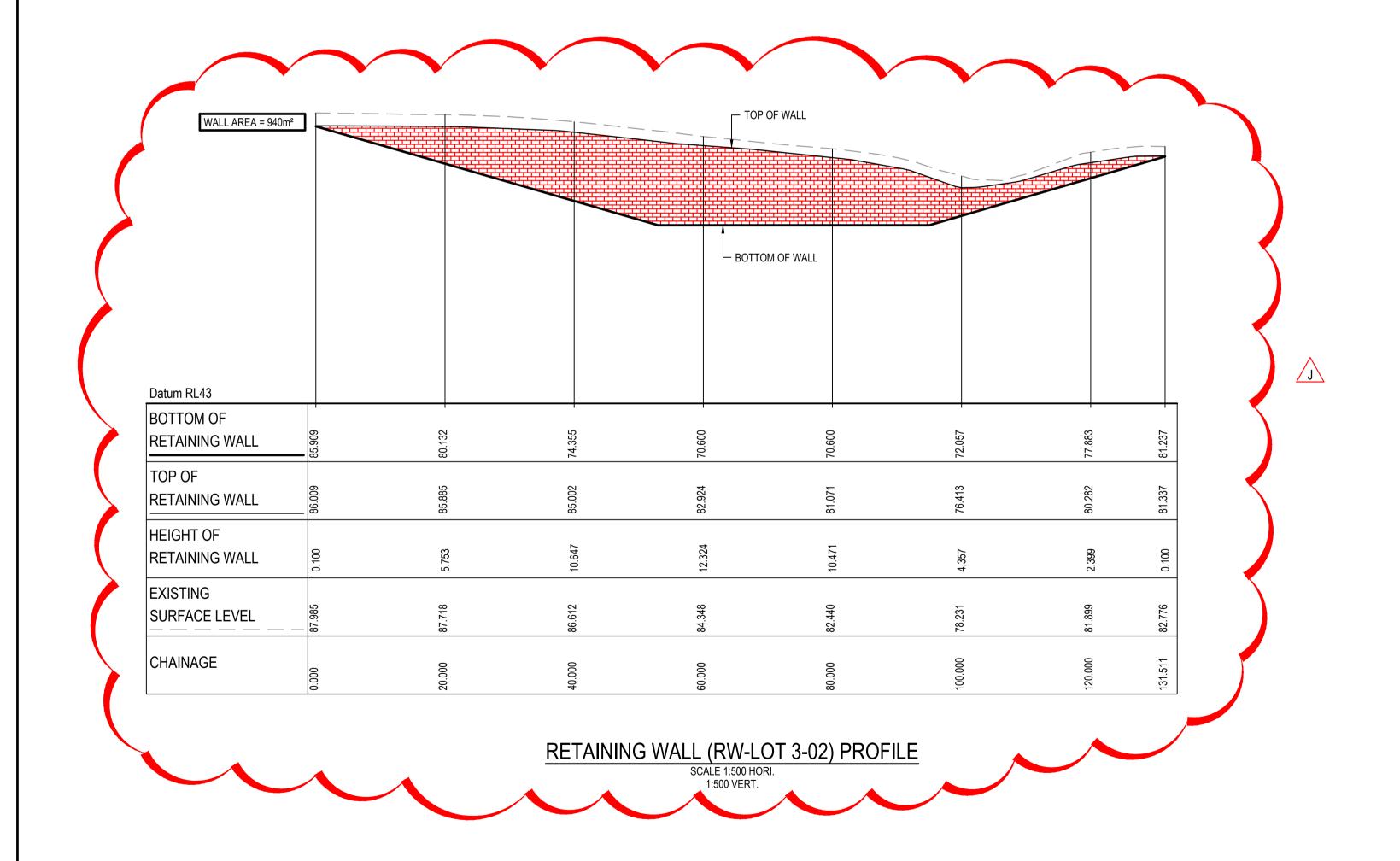








NOTES: ALL FINISHED LEVELS ARE ±1000mm U.N.O REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS



J	RE-ISSUED FOR DEVELOPMENT APPLICATION	09-02-23	Bar Scales
Н	RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22	
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	
Е	RTS SUBMISSION	08-04-22	
D	RTS ISSUE	11-11-21	
С	RTS ISSUE	12-10-21	
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	
Α	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20	
			1

100mm on Original

Description

Date

1:500 @ A1 1:1000 @ A3



Client

Scales	1 : 500	Drawn	LM	Proj
	1.500	Designed	LM	
Grid	MGA2020	Checked	AT	
Height	AHD	Approved		
Datum	· · -			Title

GDA2020

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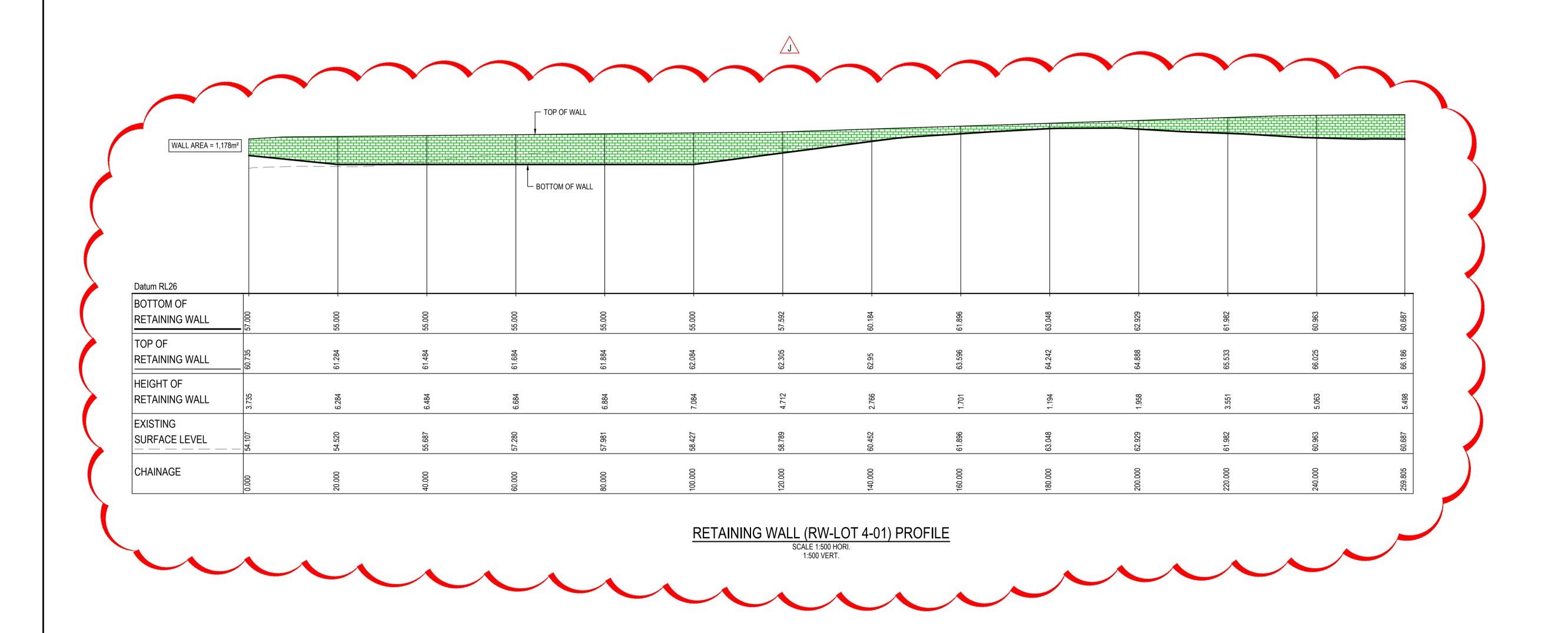
RETAINING WALL PROFILES SHEET 3

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

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

FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION	
Project - Drawing No.	Issu
20-748-C1087	J

NOTES:
ALL FINISHED LEVELS ARE ±1000mm U.N.O
REFER TO DRG C1020 FOR TYPICAL WALL SECTIONS



Client

14-02-23 Bar Scales

1:500 @ A1 1:1000 @ A3

05-12-22

19-10-22

29-08-22

08-04-22

11-11-21

12-10-21

19-04-21

22-12-20

Date

RE-ISSUED FOR DEVELOPMENT APPLICATION

RE-ISSUED FOR DEVELOPMENT APPLICATION

RE-ISSUED FOR DEVELOPMENT APPLICATION

RE-ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION

Description

100mm on Original

RTS SUBMISSION

D RTS ISSUE

C RTS ISSUE

Project - Drawing No.

20-748-C1088

Civil Engineers and Project Managers

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

Level 7, 153 Walker Street North Sydney NSW 2060

Issue

ABN 96 130 882 405

Tel: 02 9439 1777

Fax: 02 9923 1055

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

Project PROPOSED INDUSTRIAL

DEVELOPMENT

WESTLINK

KEMPS CREEK

RETAINING WALL

PROFILES

SHEET 4

LM

LM

Title

Designed

Checked

Approved

GDA2020

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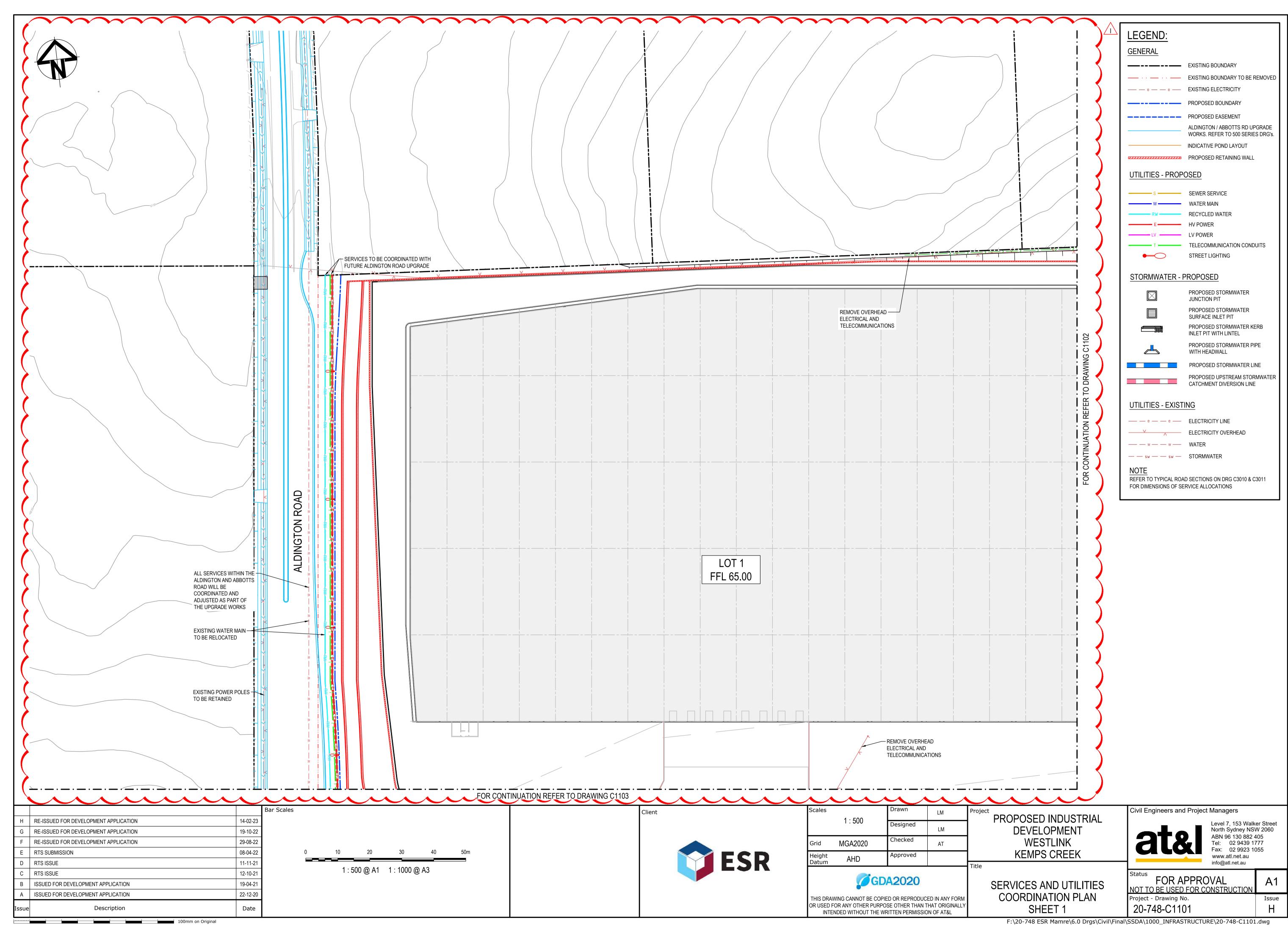
INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

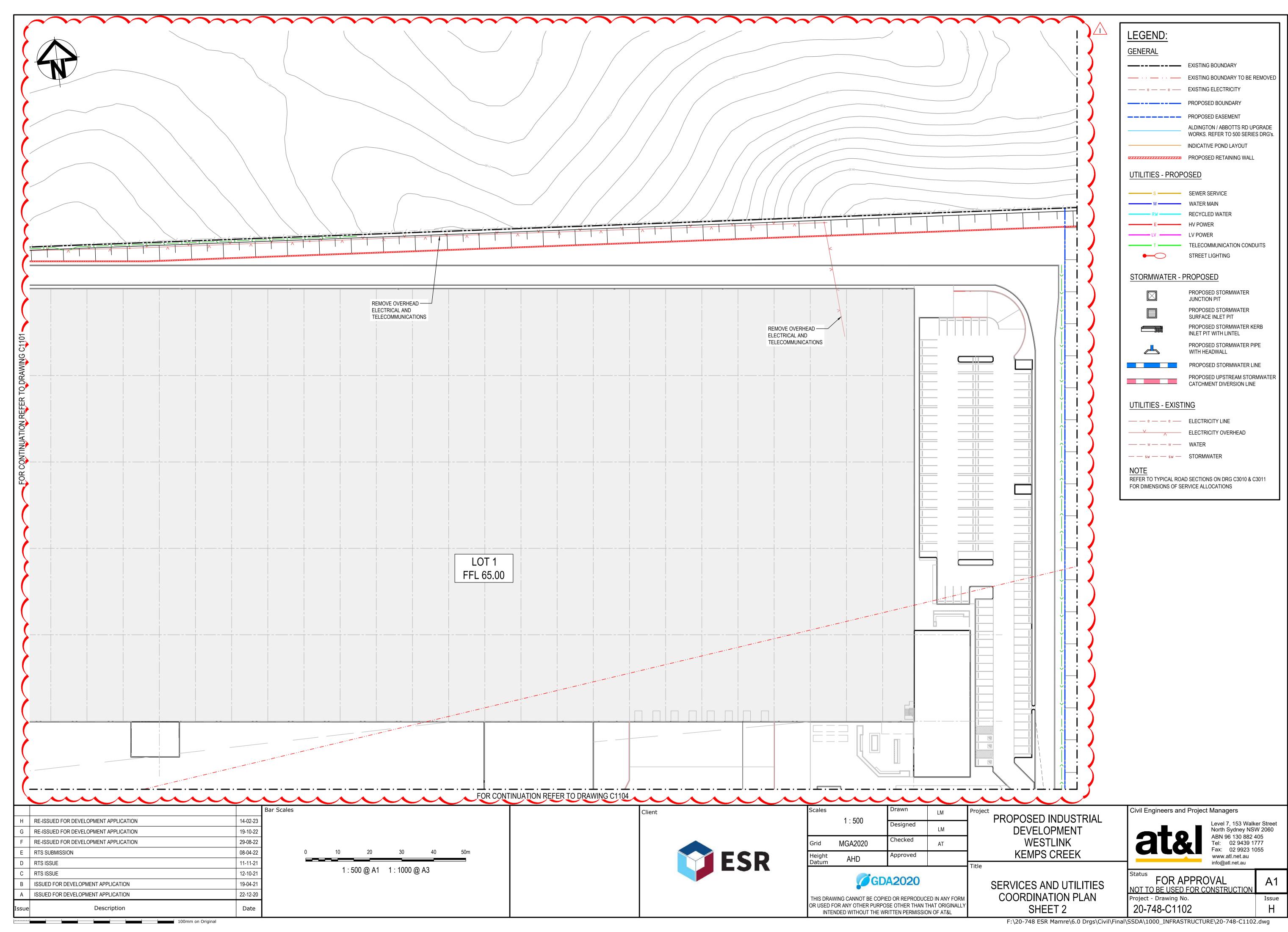
Scales

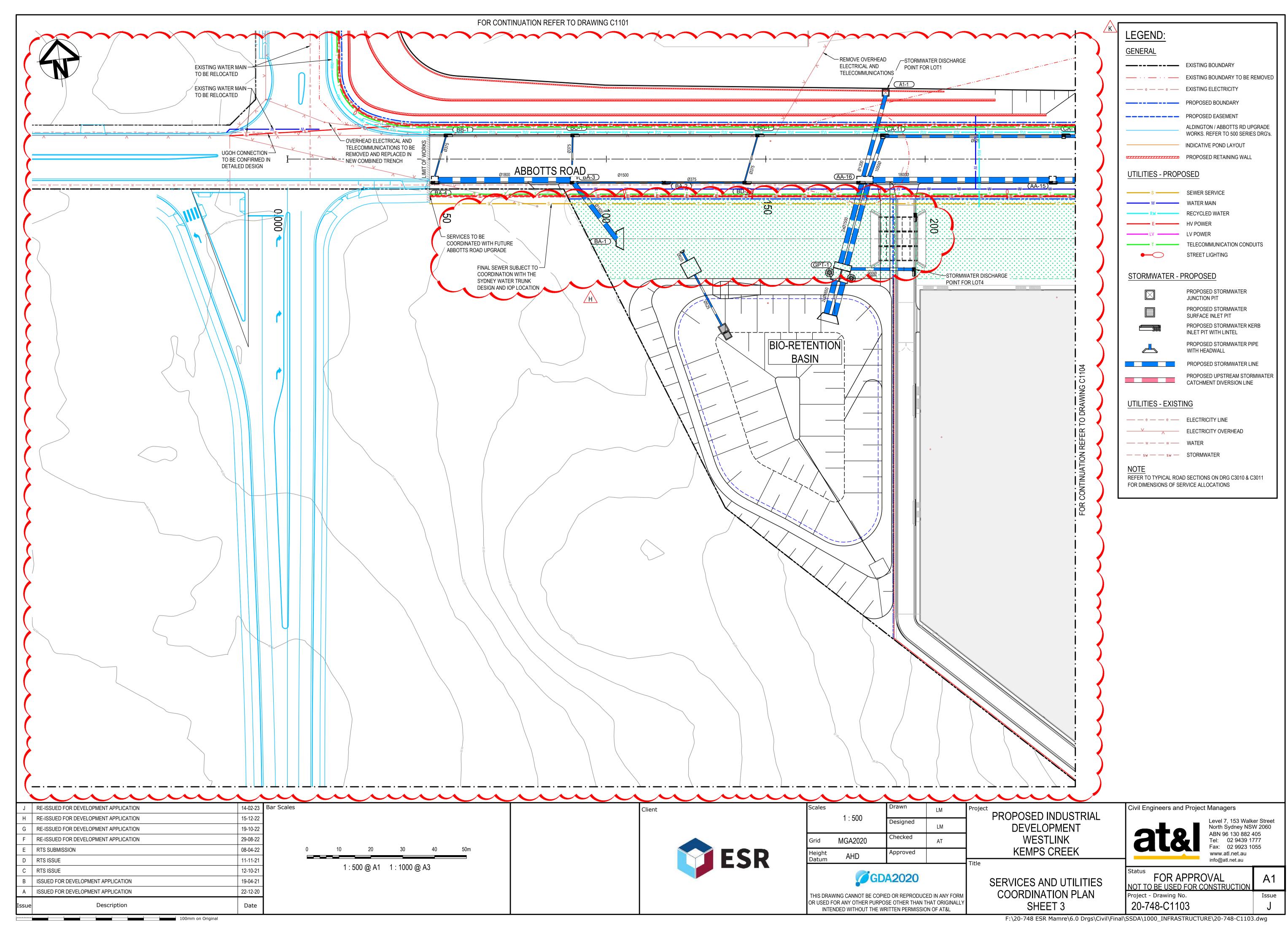
Height Datum 1:500

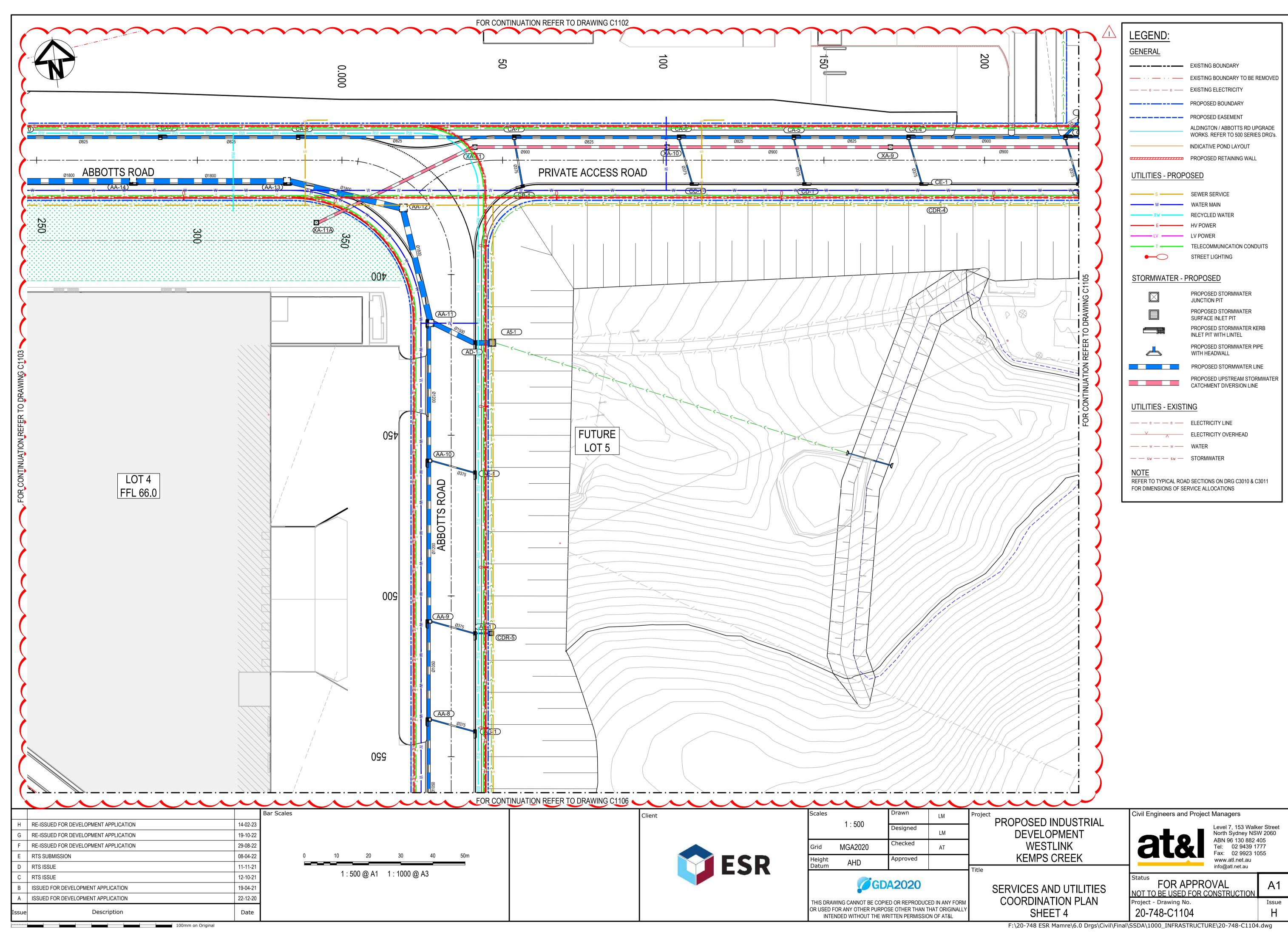
MGA2020

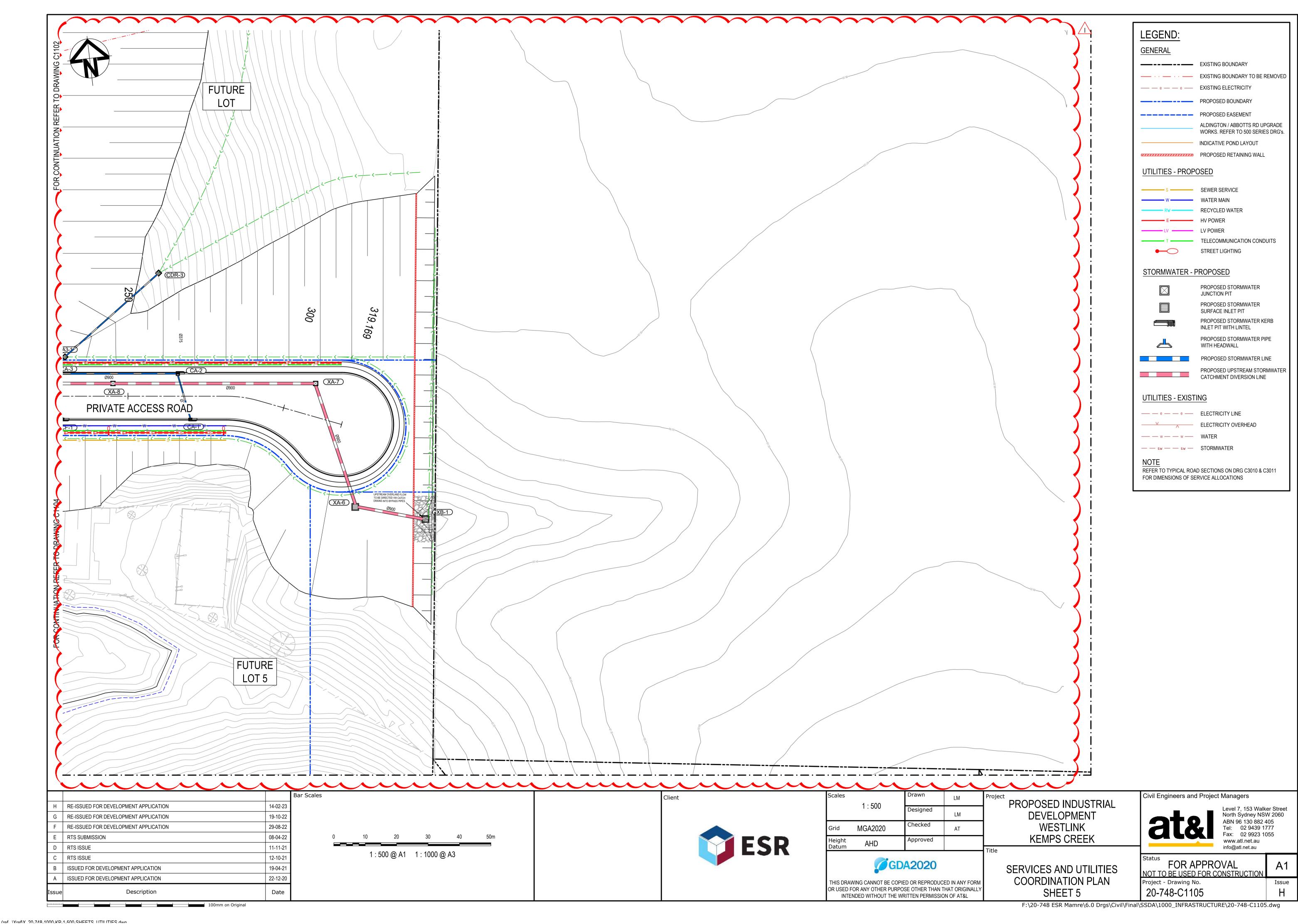
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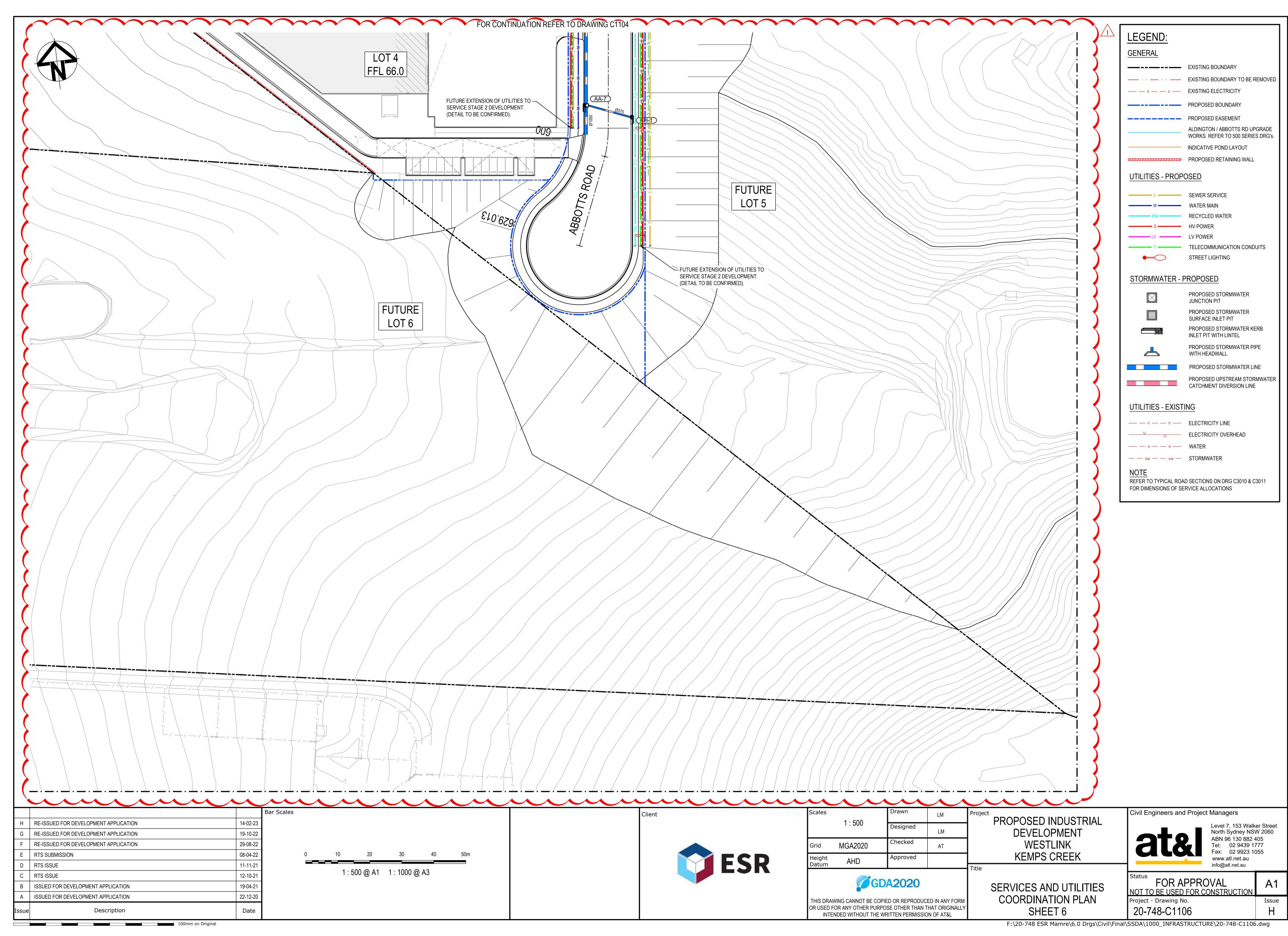


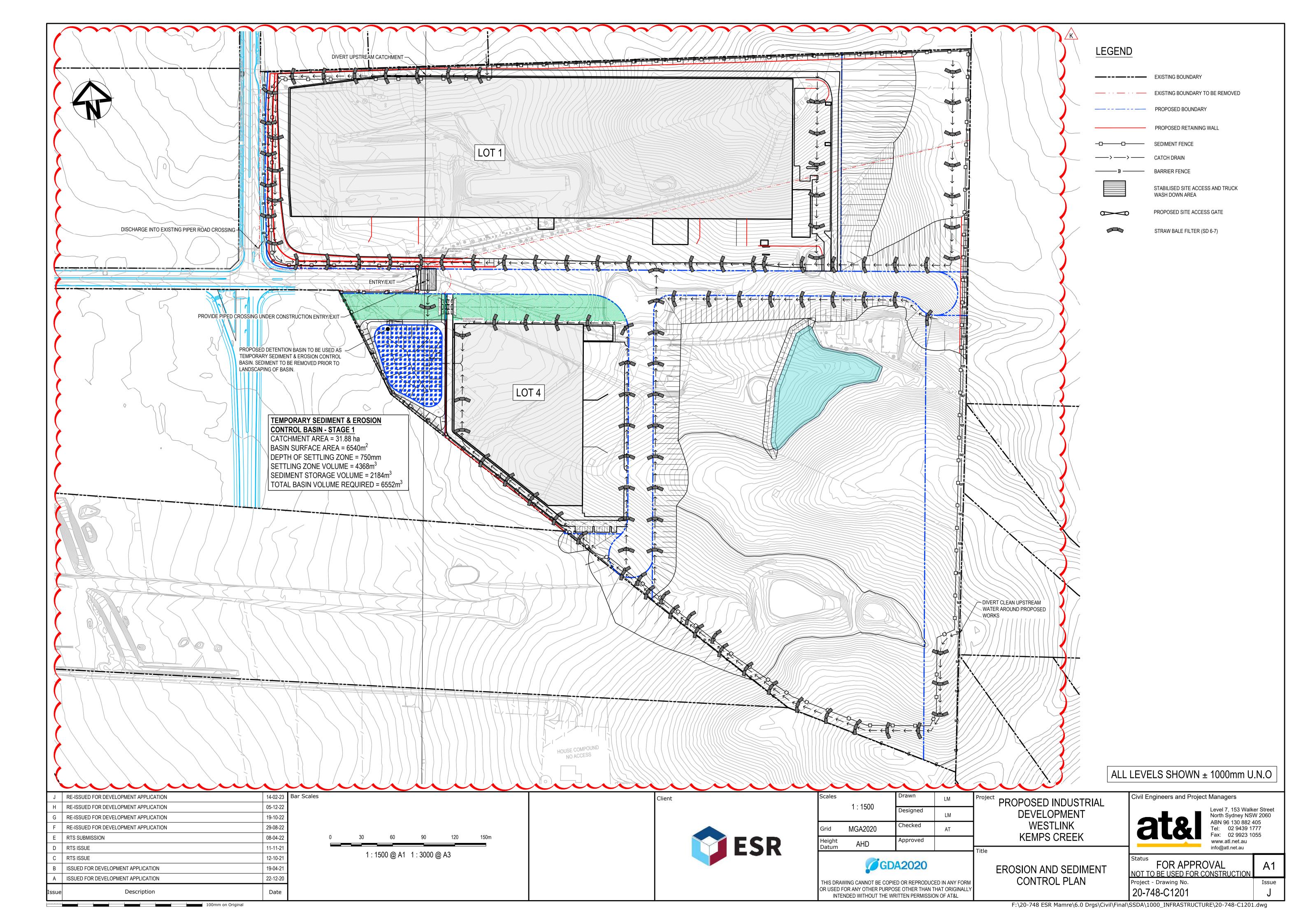


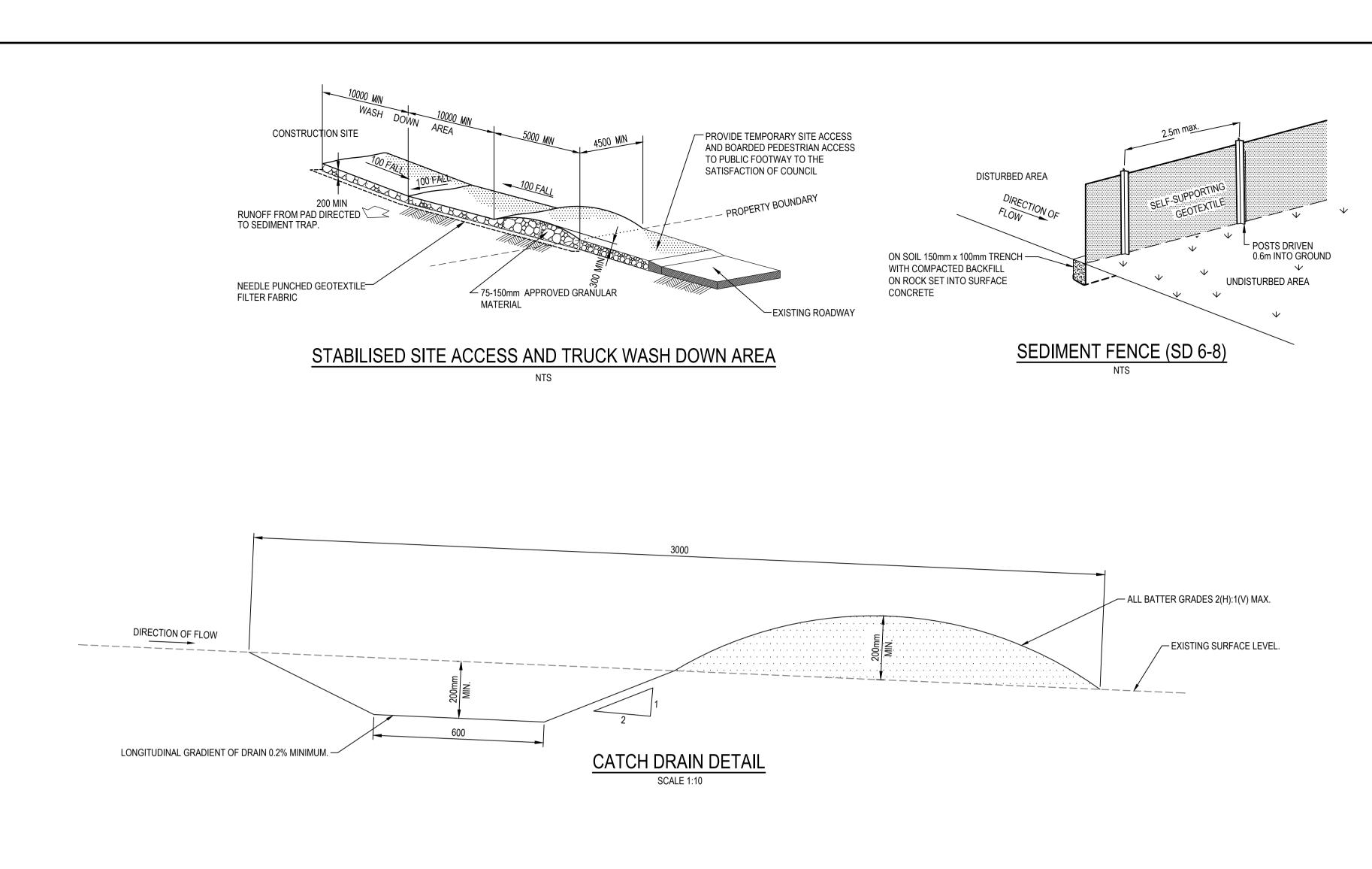


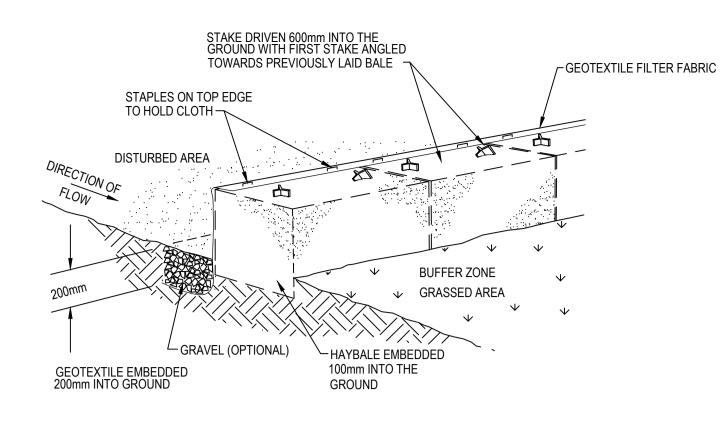




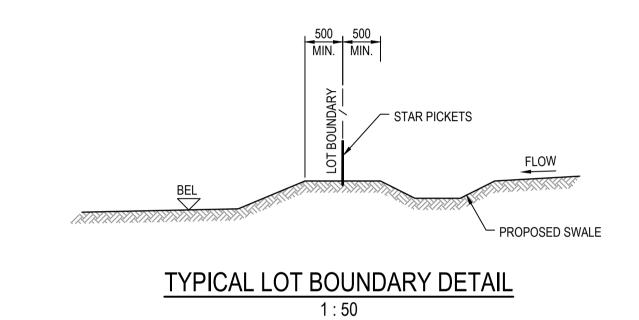


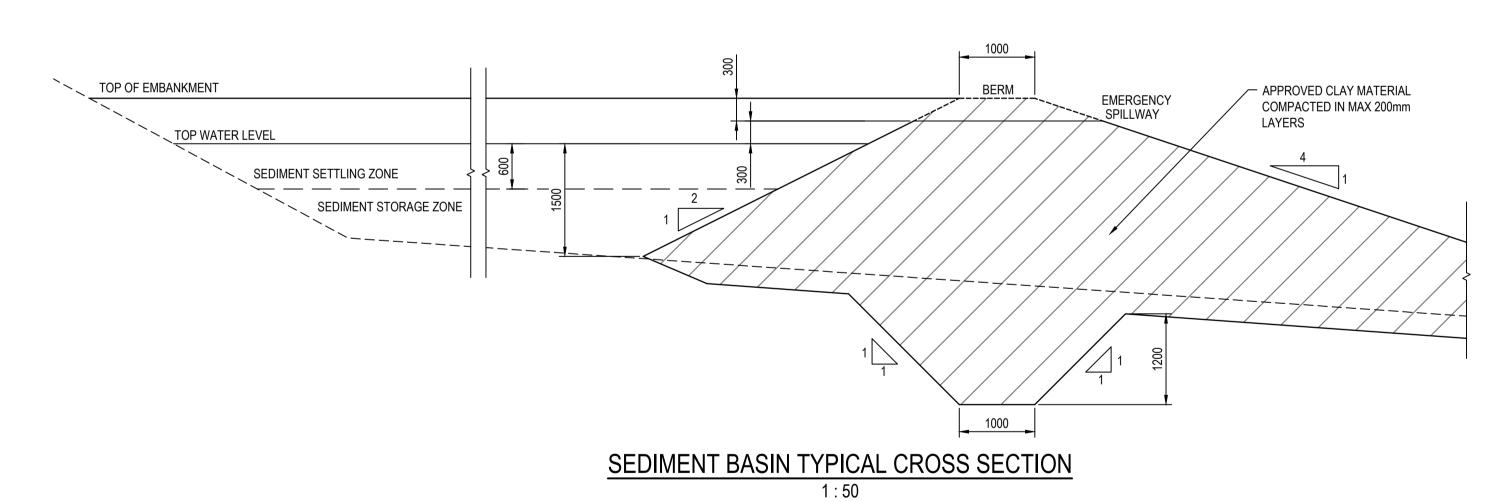


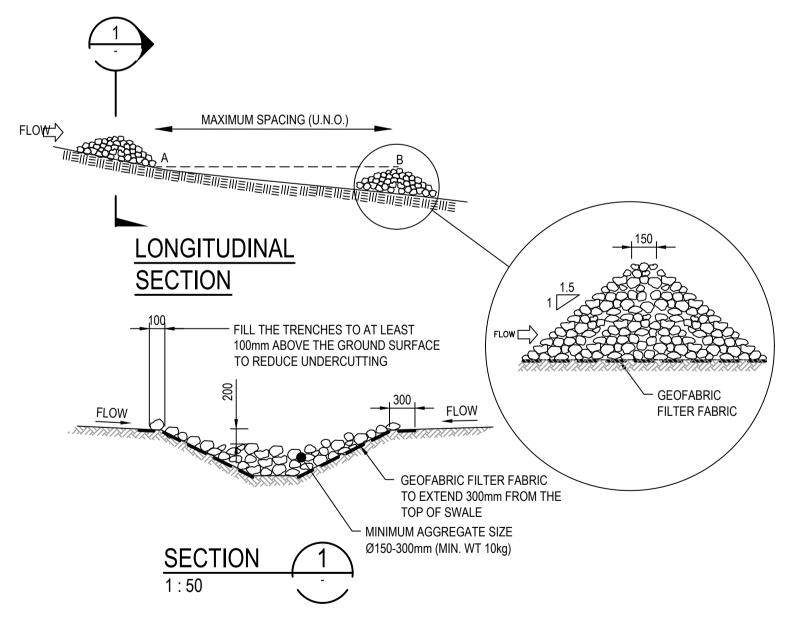




HAYBALE AND GEOTEXTILE SEDIMENT FILTER



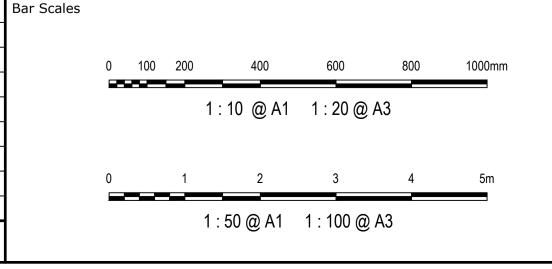




ROCK RIFFLE CHECK DAM (SD 5-4)

G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Е	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
C	RTS ISSUE	12-10-21
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
Α	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date

100mm on Original



00	400	600	800	1000mm
	1:10 @ A1	1 : 20 @ /	A3	
	2	3	4	5m
	1 : 50 @ A1	1:100@	A3	

ESR

Client

Scales		Drawn	LM	Project
	AS SHOWN	Designed	LM]
Grid	MGA2020	Checked	AT	
Height	AHD	Approved		

GDA2020

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Tel: 02 9439 1777

Issue

Civil Engineers and Project Managers

Project - Drawing No. 20-748-C1210

