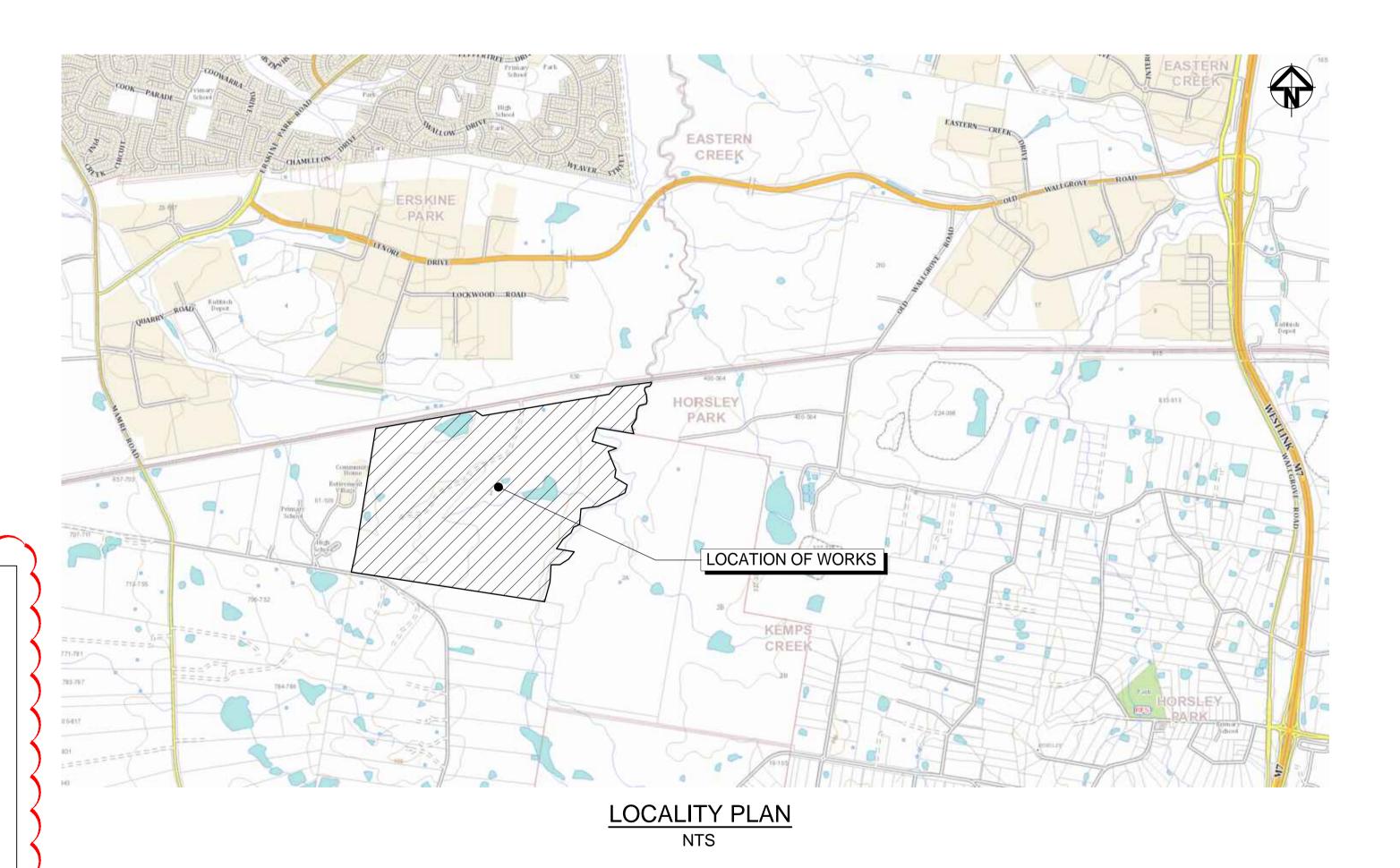
OAKDALE WEST

1000-SERIES INFRASTRUCTURE CIVIL WORKS PACKAGE STATE SIGNIFICANT DEVELOPMENT MOD 6 APPLICATION



NOTE:

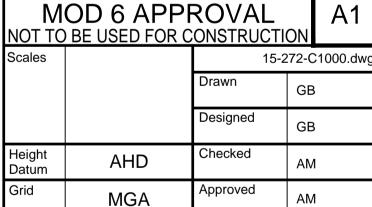
THIS APPLICATION RELATES TO THE FOLLOWING:-

- 1. BULK EARTHWORKS SITE WIDE.
- 2. STORMWATER BASINS AND ASSOCIATED STORMWATER INLET AND OUTLETS.
- 3. BOUNDARY AND ROAD \ LOT RETAINING WALLS.
- 4. WESTERN NORTH -SOUTH LINK ROAD.
- 5. STAGE 1 INFRASTRUCTURE WORKS AS SHOWN ON DRAWINGS 15-272-C0004 AND 15-272-C0005
- 6. PRECINCT NO.1 ON LOT BUILDING WORKS.
- 7. LOT 2A, 2C, 2D, 2E & 3A ON LOT BUILDING WORKS
- 8. INTERNAL AND EXTERNAL SYDNEY WATER SEWER AND POTABLE WATER WORKS.
- 9. PRIVATE GAS MAIN RELOCATION WORKS.
- 10. DEMOLITION AND DECOMMISSIONING OF EXISTING DWELLING, ASSOCIATED UTILITIES, FENCING, CATTLE YARDS AND DAMS.
- 11. LEAD IN ELECTRICAL AND COMMUNICATIONS.

Bar Scales

Issue	Description	Date
A5	ISSUED FOR INFORMATION MOD 2	07-06-19
А6	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20
A 10	ICCUED FOR CCD ADDROVAL MOD (20

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Project

PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE WEST

Title

COVER SHEET

Drawing No. 15-272-C1000

Project No. **15-272**

No. Issu 272 A1

Date Plotted: 20 Oct 2020 - 04:09PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\100_MOD 6_Infrastructure Package\15-272-C1000.dwg

DRAWING LIST	
DRAWING No.	DRAWING TITLE
15-272-C1000	COVER SHEET
15-272-C1001	DRAWING LIST
15-272-C1002	GENERAL NOTES
15-272-C1003	PRECINCT GENERAL ARRANGEMENT PLAN
15-272-C1004	TYPICAL SITE SECTIONS SHEET 1 OF 6
15-272-C1005	TYPICAL SITE SECTIONS SHEET 2 OF 6
15-272-C1006	TYPICAL SITE SECTIONS SHEET 3 OF 6
15-272-C1007	TYPICAL SITE SECTIONS SHEET 4 OF 6
15-272-C1008	TYPICAL SITE SECTIONS SHEET 5 OF 6
15-272-C1009	TYPICAL SITE SECTIONS SHEET 6 OF 6
15-272-C1010	TYPICAL ROAD SECTIONS
15-272-C1011	CONTOUR PLAN
15-272-C1014	BULK EARTHWORKS CUT\FILL PLAN
15-272-C1015	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 1 OF 20
15-272-C1016	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 2 OF 20
15-272-C1017 15-272-C1018	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 3 OF 20 EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 4 OF 20
15-272-C1018 15-272-C1019	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 4 OF 20
15-272-C1019 15-272-C1020	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 5 OF 20
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15-272-C1021	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 8 OF 20
15-272-C1023	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 9 OF 20
15-272-C1024	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 10 OF 20
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15-272-C1027	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 13 OF 20
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15-272-C1032	EARTHWORKS AND STORMWATER DRAINAGE PLAN SHEET 18 OF 20
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15-272-C1040	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1 OF 18
15-272-C1041	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2 OF 18
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15-272-C1043 15-272-C1044	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 4 OF 18 ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 5 OF 18
15-272-C1044 15-272-C1045	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 6 OF 18
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15-272-C1060	ROAD LONGITUDINAL SECTIONS SHEET 1 OF 7
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15-272-C1086	STORMWATER DRAINAGE CATCHMENT PLAN (PRE-DEVELOPED)
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15-272-C1090	RETAINING WALL GENERAL ARRANGEMENT PLAN
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15-272-C1110	STAGE 1 SERVICES AND UTILITIES COORDINATION PLAN SHEET 1 OF 6
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15-272-C1112	STAGE 1 SERVICES AND UTILITIES COORDINATION PLAN SHEET 3 OF 6
15-272-C1113	STAGE 1 SERVICES AND UTILITIES COORDINATION PLAN SHEET 4 OF 6
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15-272-C1121	EXISTING TRANSGRID OVERHEAD ELECTRICAL CABLES LONGITUDINAL SECTIONS
15-272-C1122	EXISTING TRANSGRID OVERHEAD ELECTRICAL CABLES TYPICAL SECTIONS SHEET 1 OF 2
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15-272-C1130	EROSION AND SEDIMENT CONTROL PLAN SHEET 1 OF 7
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15-272-C1133	EROSION AND SEDIMENT CONTROL PLAN SHEET 4 OF 7
15-272-C1134	EROSION AND SEDIMENT CONTROL PLAN SHEET 5 OF 7
15-272-C1135	EROSION AND SEDIMENT CONTROL PLAN SHEET 6 OF 7
15-272-C1136	EROSION AND SEDIMENT CONTROL PLAN SHEET 7 of 7
15-272-C1137	EROSION AND SEDIMENT CONTROL DETAILS

Bar Scales

A10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
А6	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
A5	ISSUED FOR INFORMATION MOD 2	07-06-19
Issue	Description	Date

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MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION 15-272-C1001.dwg Designed Checked AHD Approved MGA



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PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Date Plotted: 20 Oct 2020 - 04:09PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1001.dwg

DRAWING LIST

Drawing No. Project No. 15-272-C1001 15-272

A10

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 ACCORDANCE WITH AS 1289 5.2.1
- FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ 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 50m³0F 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, (eq. 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 CARDNO HARD & FORESTER PTY LTD, 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.

IMPORTANT NOTE:

THIS PLAN IS PREPARED FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED BY THE AUTHOR AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD MEASUREMENT.

A SERVICES SEARCH OF THE AREA SURVEYED ABOVE HAS NOT BEEN UNDERTAKEN. VISIBLE SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. 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. THIS NOTE IS AN INTEGRAL PART OF THIS PLAN.

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.

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

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



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

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	SPECIFIED	NOMINAL
	AT 28 DAYS	SLUMP	AGG. SIZE
VEHICULAR BASE KERBS, PATHS, AND PITS	32 25	60 80	20 20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
- 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 ___ SPACING IN mm

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

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING



KERBING NOTES

DETAIL:

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH 0F25 MP8 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.

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).

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: C100 EXTERNAL PAVEMENTS: C100 ROOF AREAS: =1.0

- 2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- B. 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.
- 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
- 5. 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
- 8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO
- APPROVAL BY AT & L. 9. ENLARGERS. CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED
- FITTINGS WHERE PIPES ARE LESS THAN 300 DIA. 0. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR
- PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED. 11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES
- SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL 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 POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 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.
- 5. 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, 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 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. EPA REQUIREMENTS c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH
- 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 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 DETAIL.
- (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.

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

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).

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.

B. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS:

CLAY & SIL I	< 1%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mi
FINE SAND	10-30%	(0.15-0.25mi
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.
- 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

q) 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.

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.

BULK EARTHWORKS NOTES

1. ORIGIN OF LEVELS: REFER SURVEY NOTES

- 2. REFER PELLS SULLIVAN MEYNINK REPORT PSM1541-020S REV 0 (DATED 16-03-12) FOR BULK EARTHWORKS SPECIFICATIONS OF THE BIO-RETENTION BASIN AND ESTATE ROAD.
- B. REFER PELLS SULLIVAN MEYNINK REPORT PSM1541-003S REV 2 (DATED 06/05/13) FOR BULK EARTHWORKS SPECIFICATIONS OF ALL AREAS EXCEPT THE BIO-RETENTION BASIN AND ESTATE ROAD.

FINISHED SURFACE LEVELS

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

ssue Description

Bar Scales

A10 | ISSUED FOR SSD APPROVAL MOD 6 20-10-2 ISSUED FOR SSD APPROVAL MOD 3 06-12-19 19-11-19 A8 | ISSUED FOR INFORMATION MOD 3 12-11-19 A7 ISSUED FOR INFORMATION MOD 3 A6 ISSUED FOR SSD APPROVAL MOD 2 24-07-19 A5 | ISSUED FOR INFORMATION MOD 2 07-06-19

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NOT TO BE USED FOR CONSTRUCTION 15-272-C1002.dwg GB Designed GB Checked AHD

Approved

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MGA

Client

PROPOSED INDUSTRIAL **DEVELOPMENT OAKDALE WEST**

GENERAL NOTES

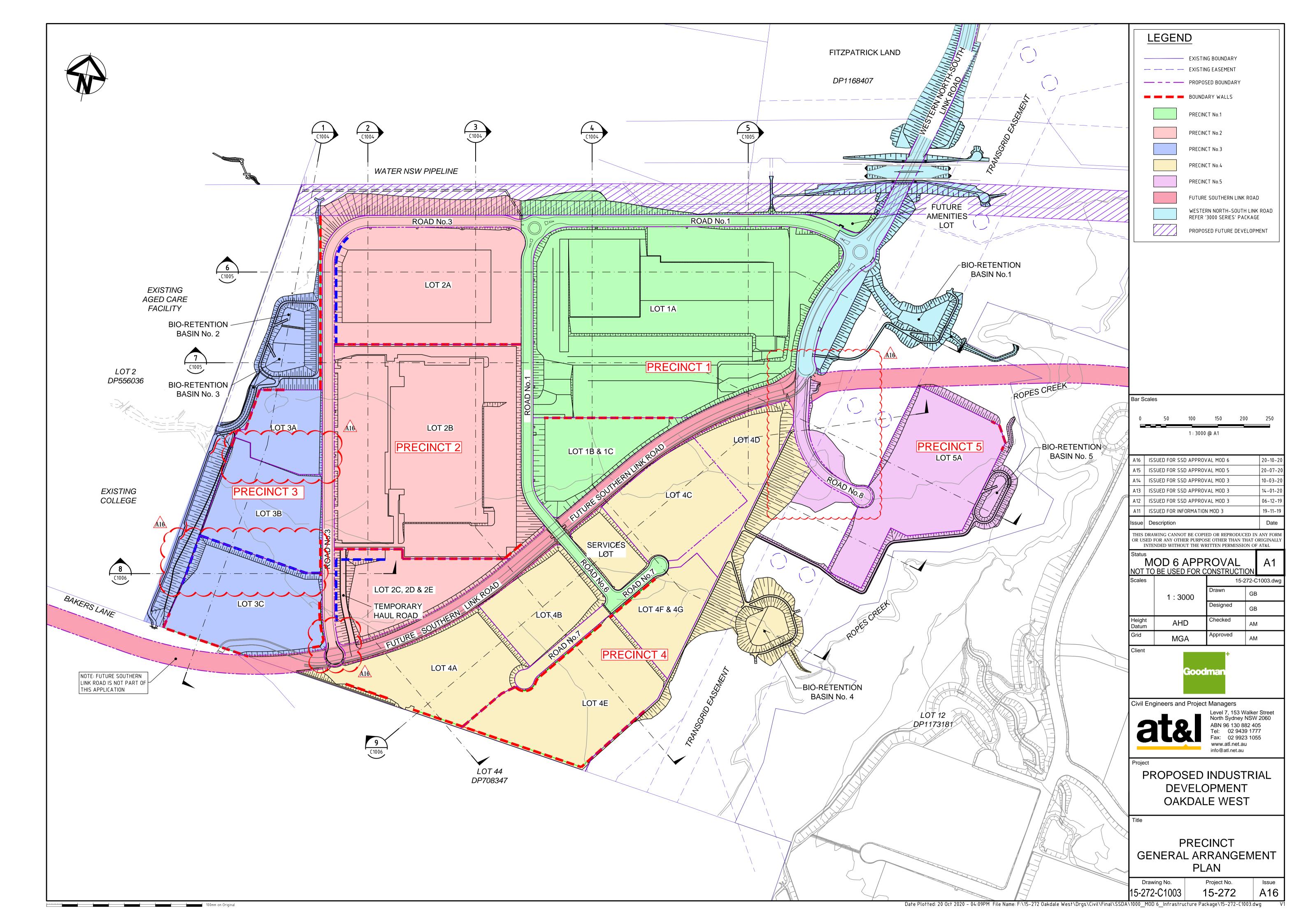
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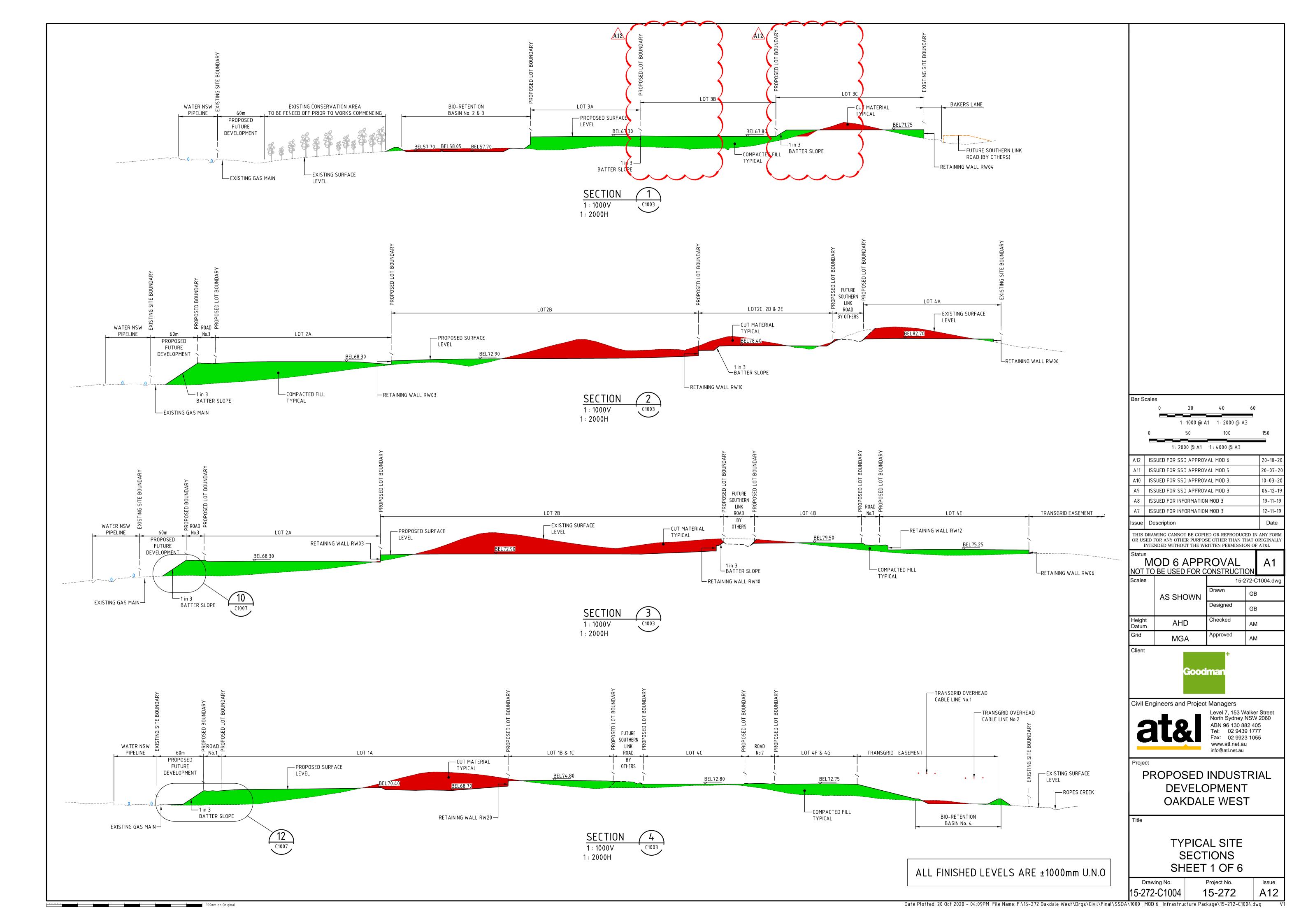
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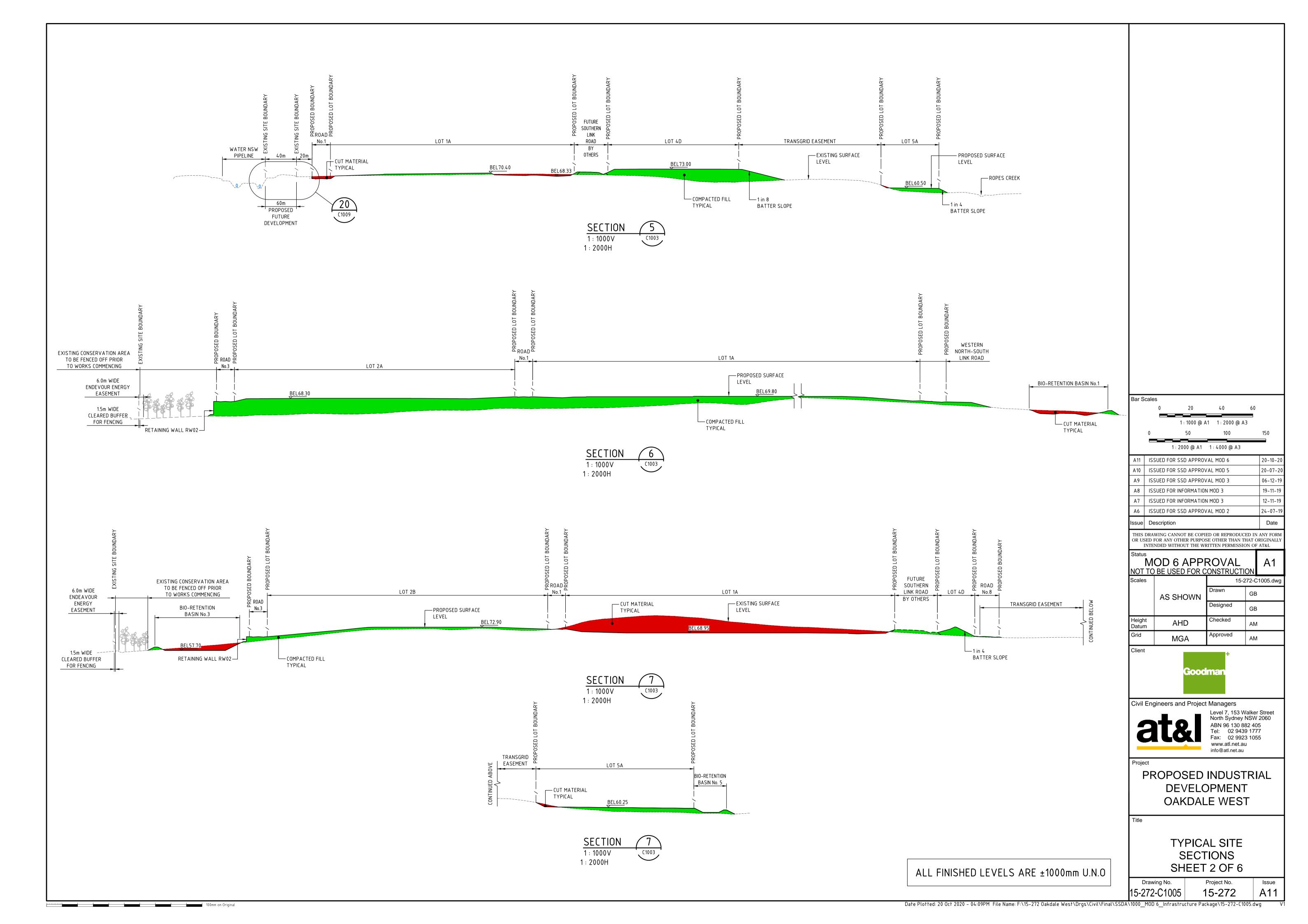
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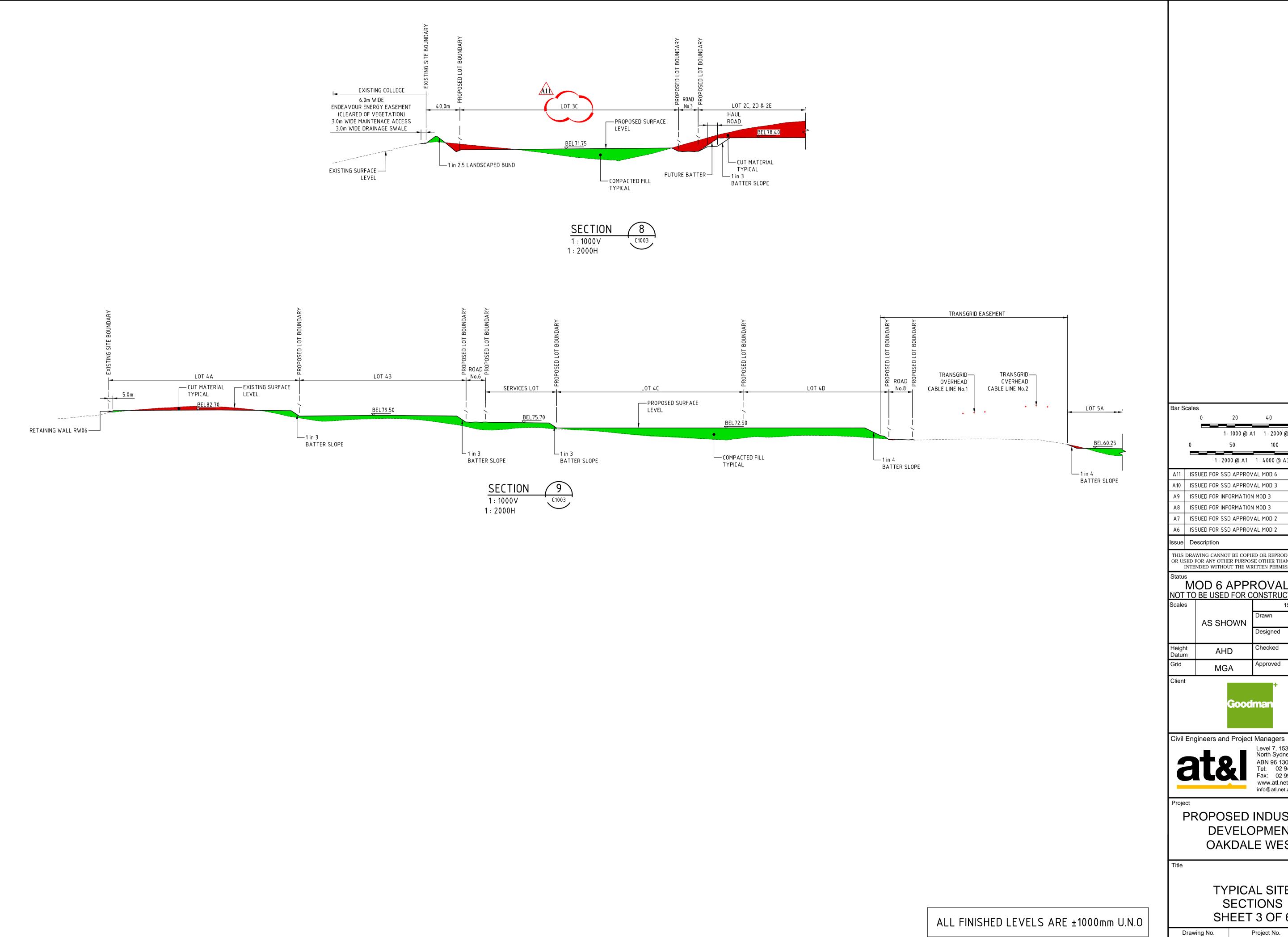
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Civil Engineers and Project Managers









100mm on Original

A11 | ISSUED FOR SSD APPROVAL MOD 6

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MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION 15-272-C1006.dwg Designed Checked Approved



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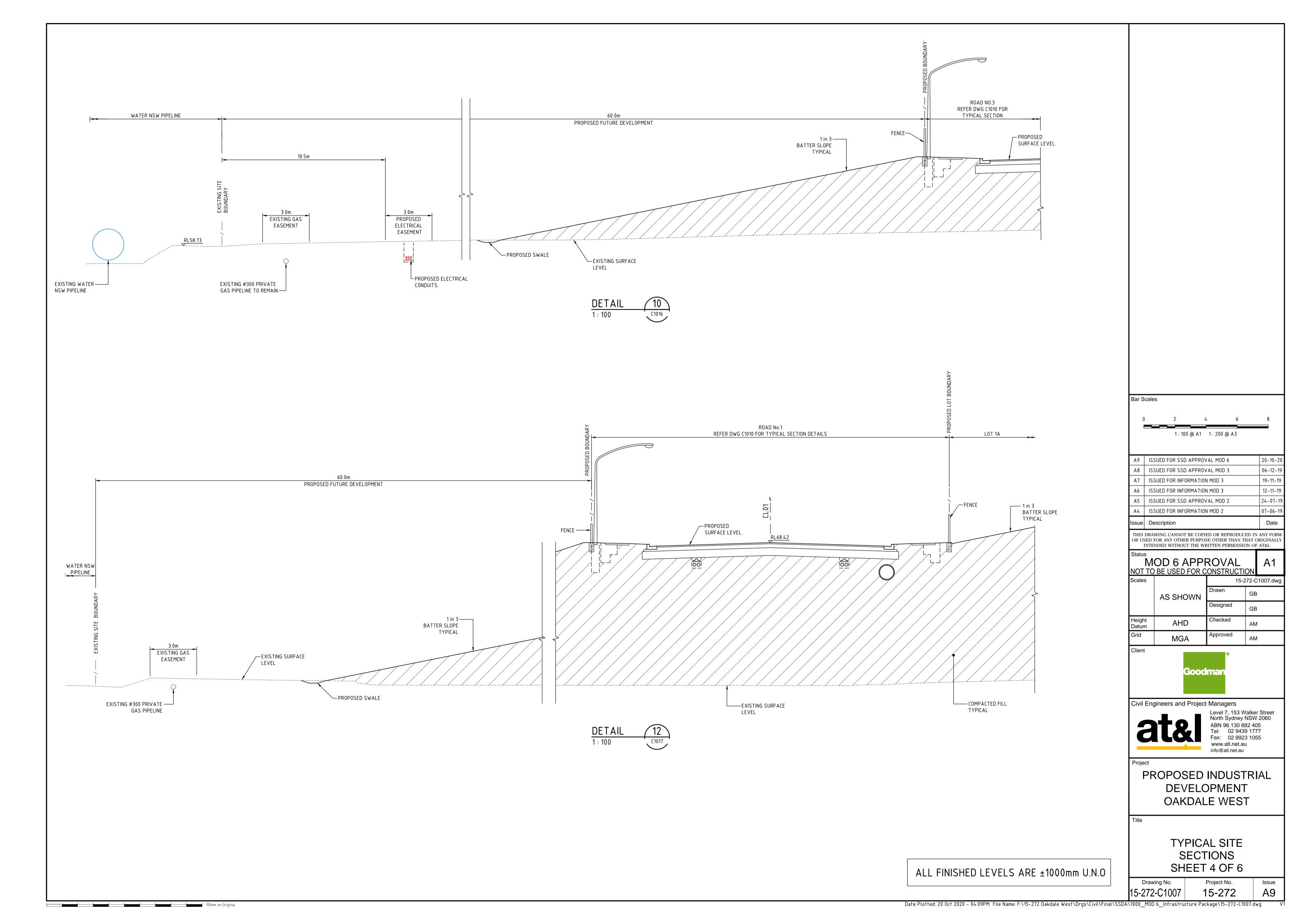
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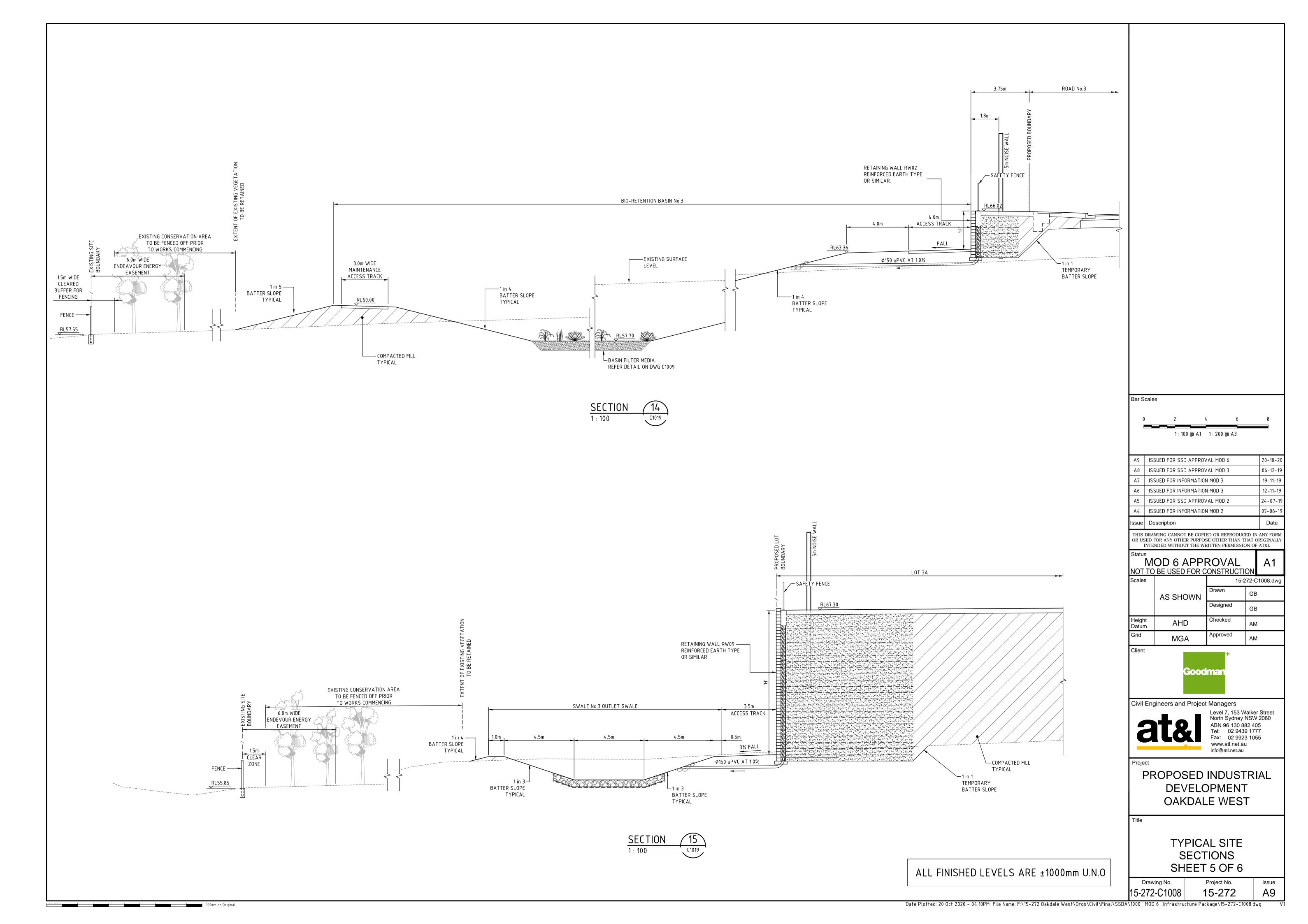
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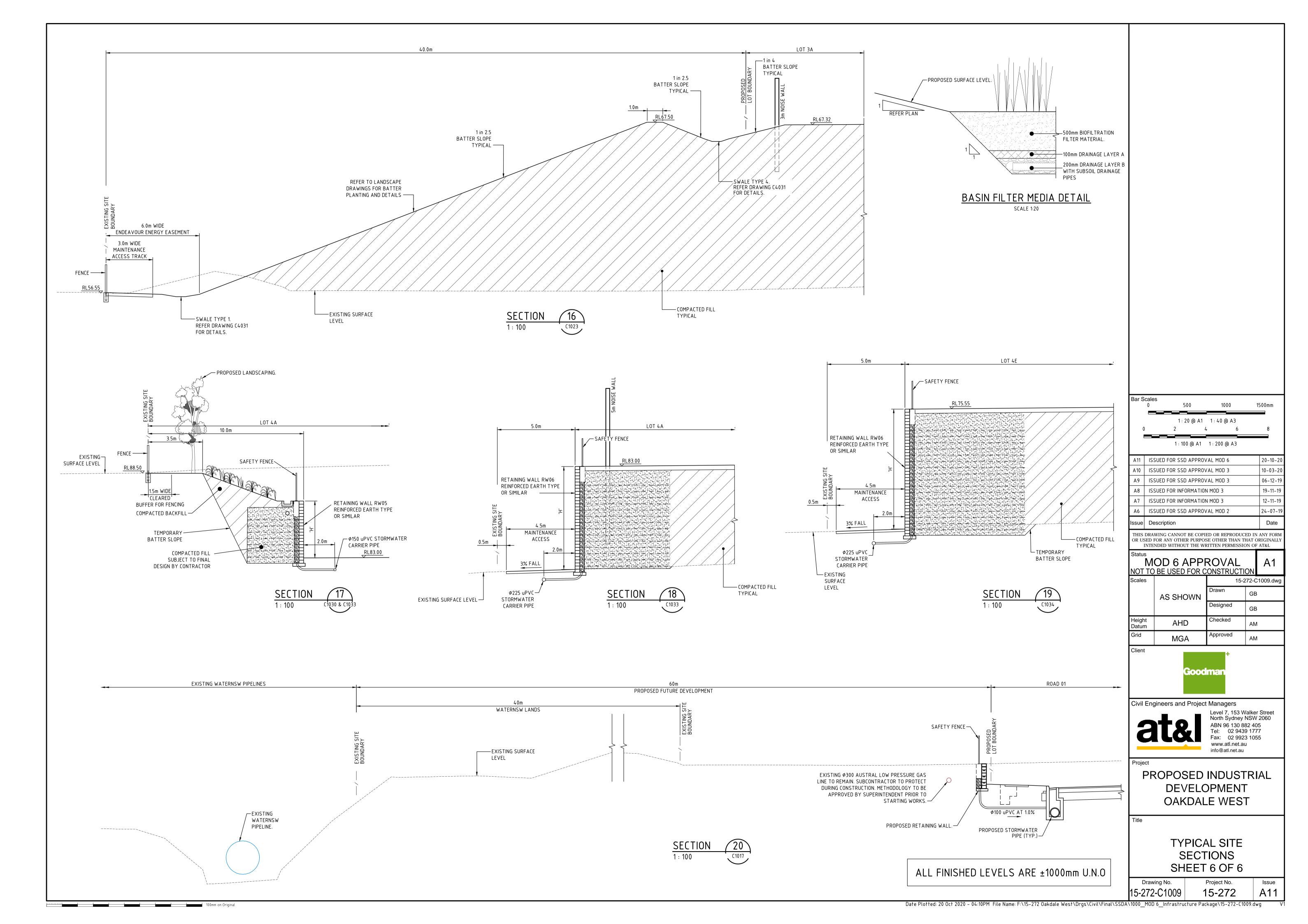
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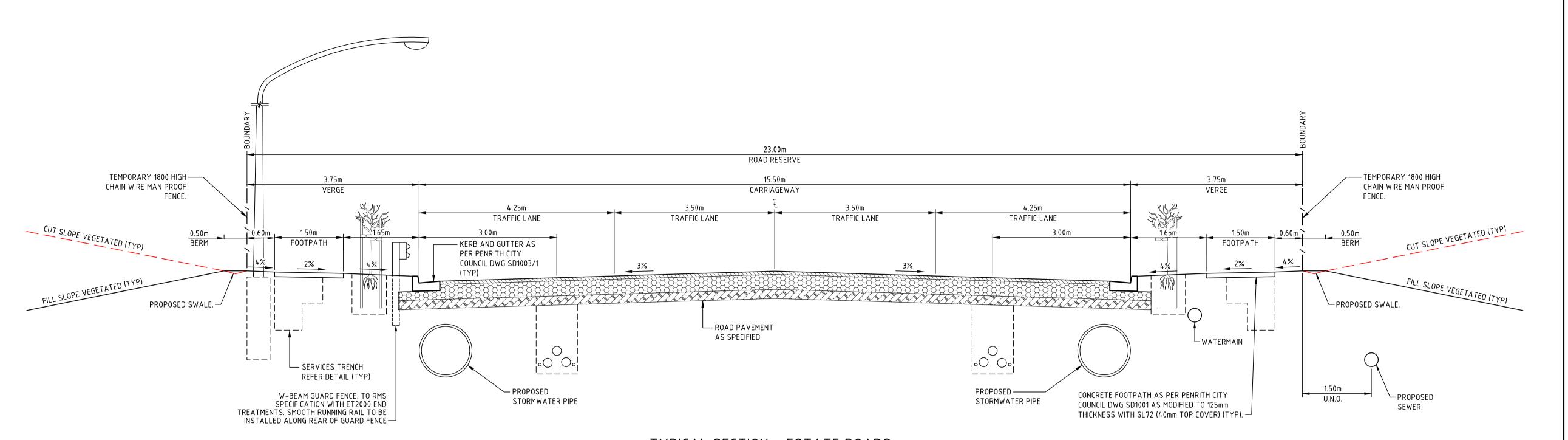
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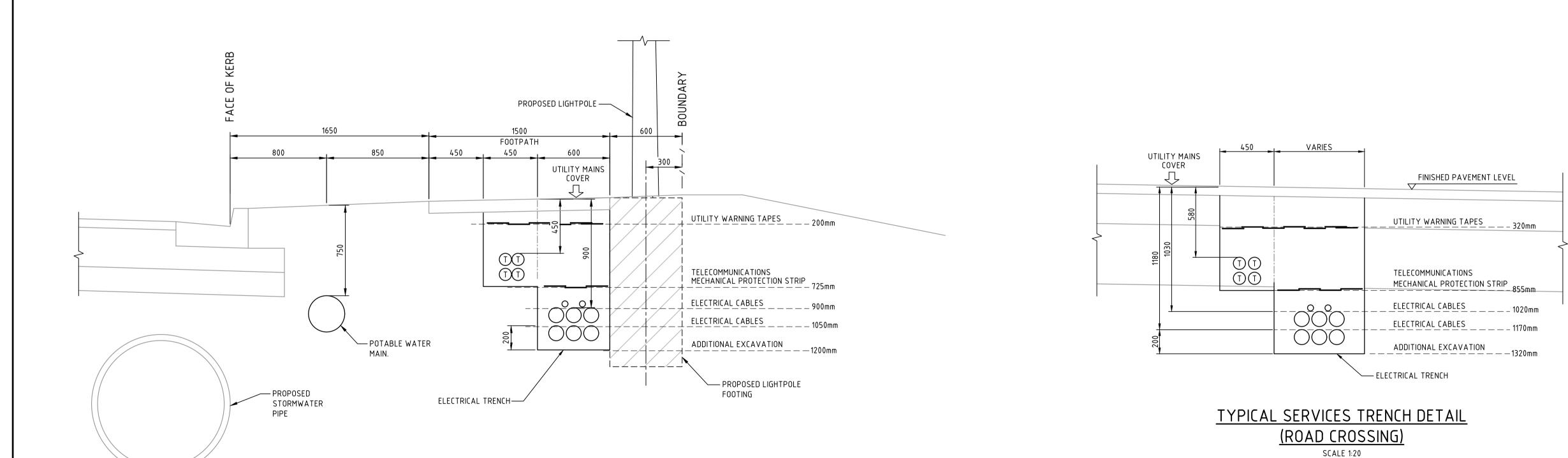


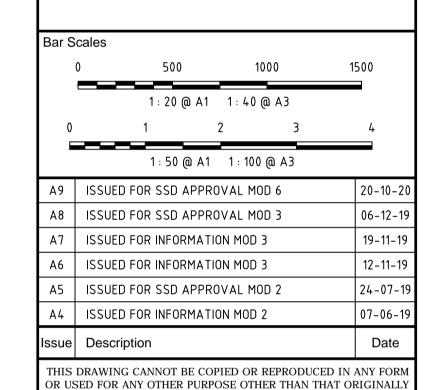


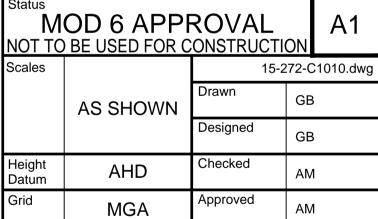




TYPICAL SECTION - ESTATE ROADS SCALE 1:50







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Issue

A9

PROPOSED INDUSTRIAL **DEVELOPMENT** OAKDALE WEST

TYPICAL ROAD SECTIONS

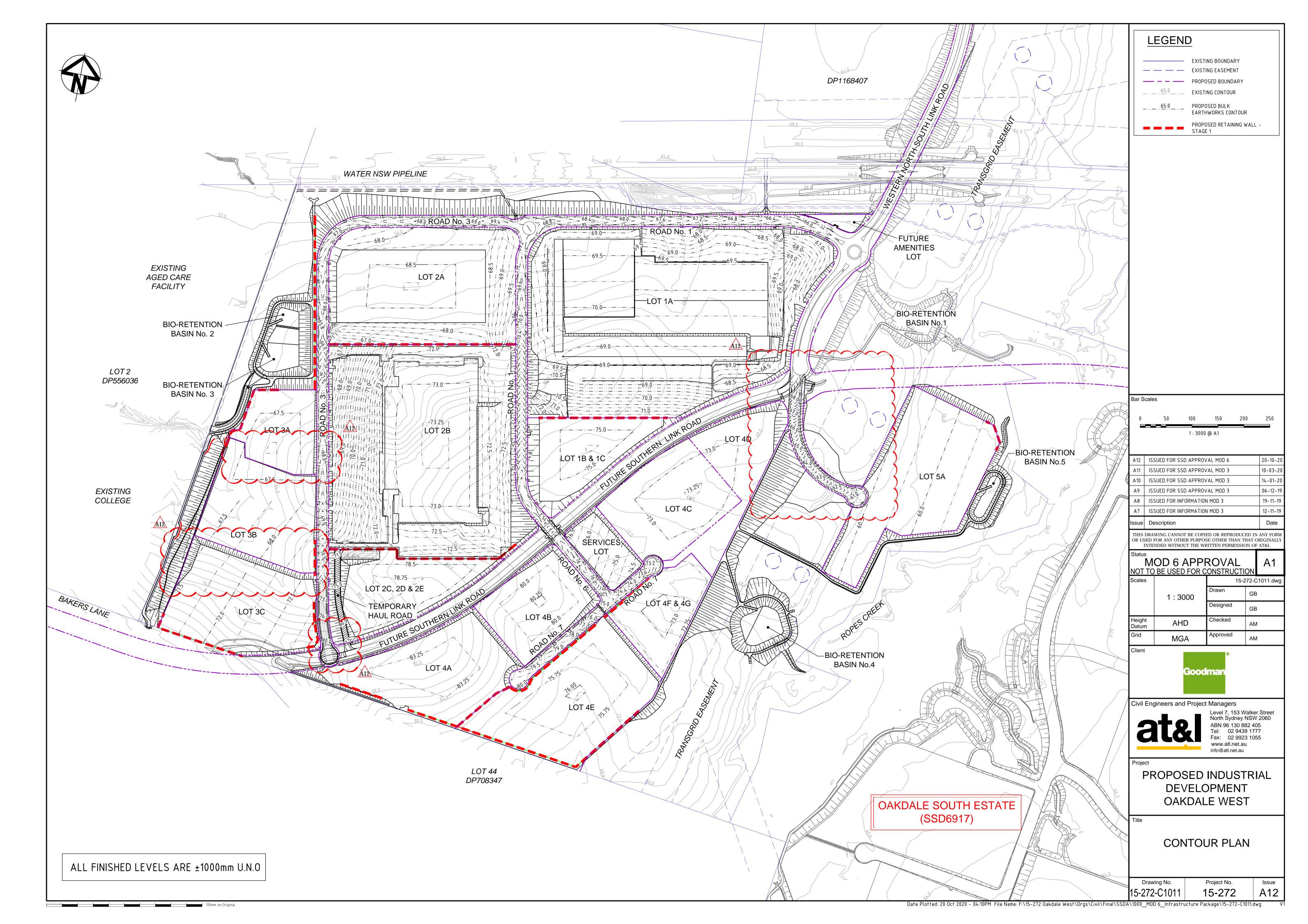
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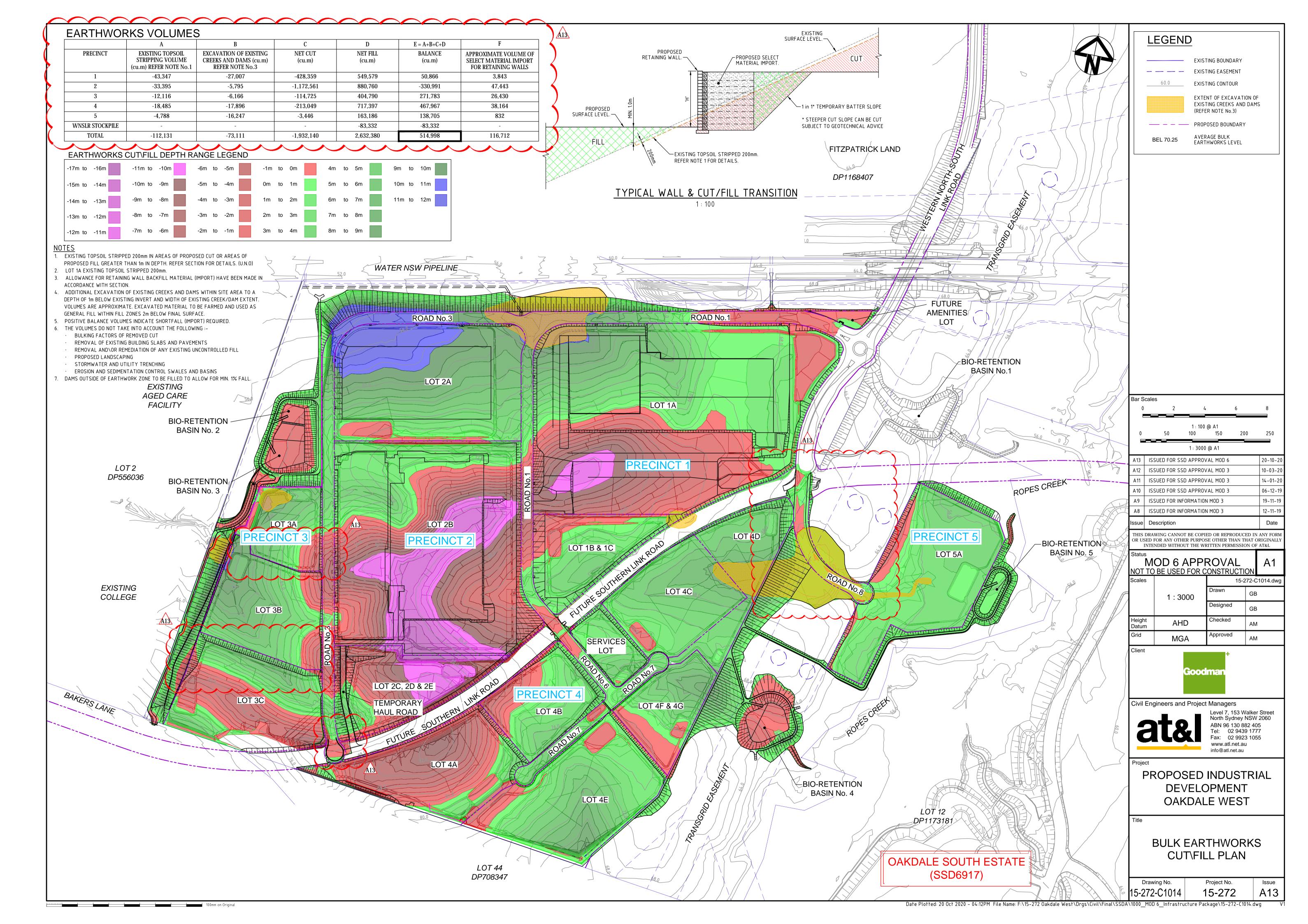
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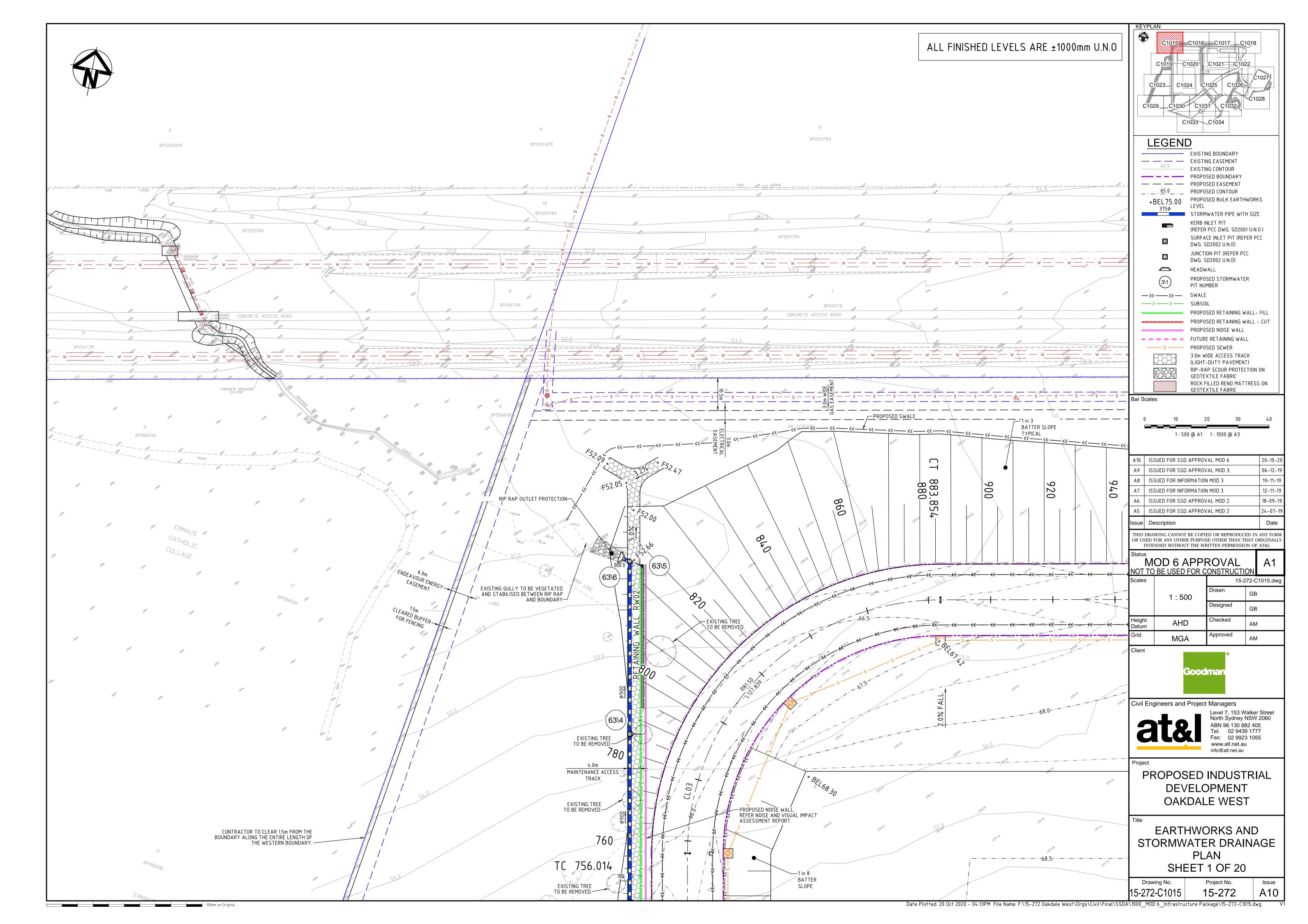
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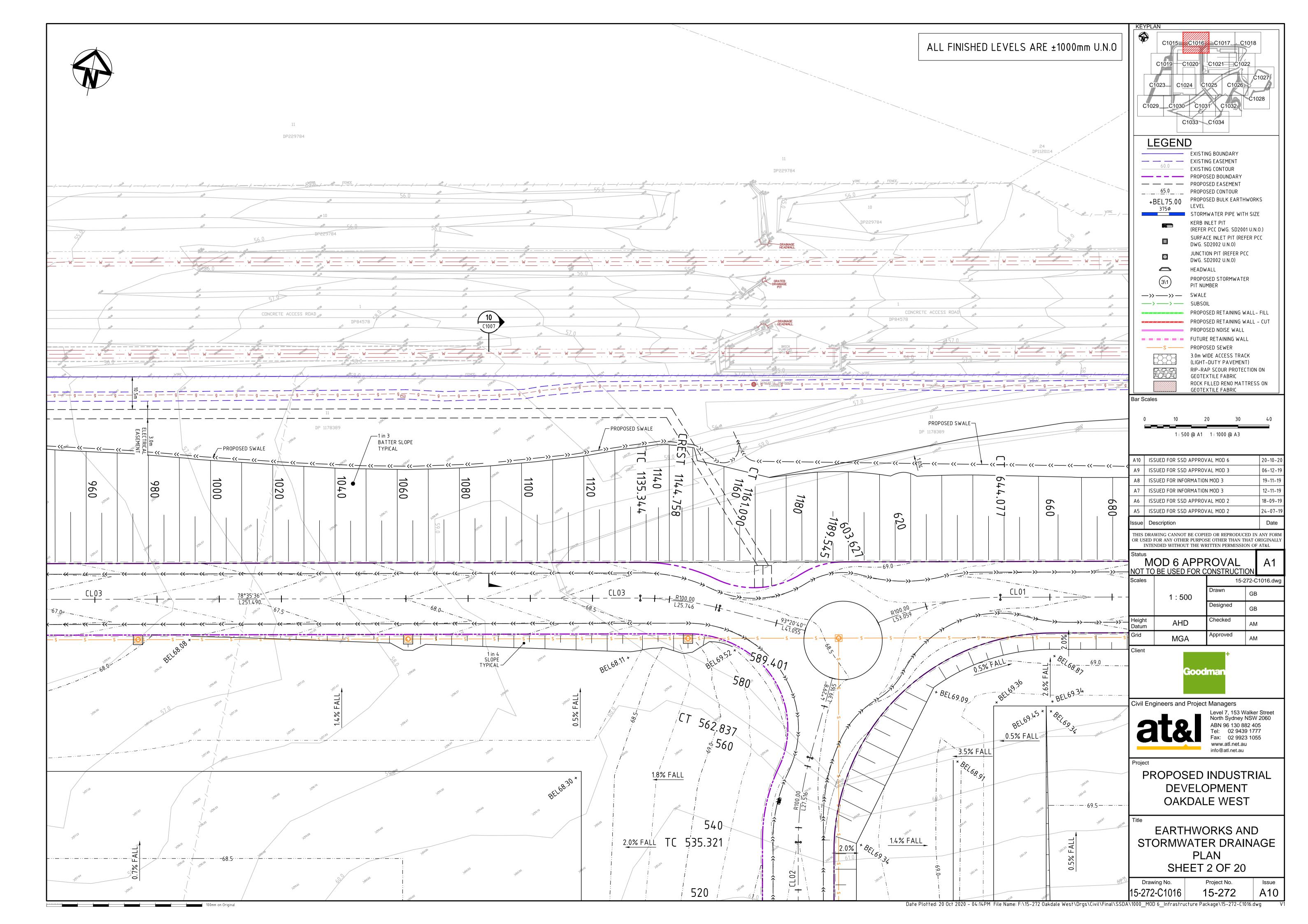
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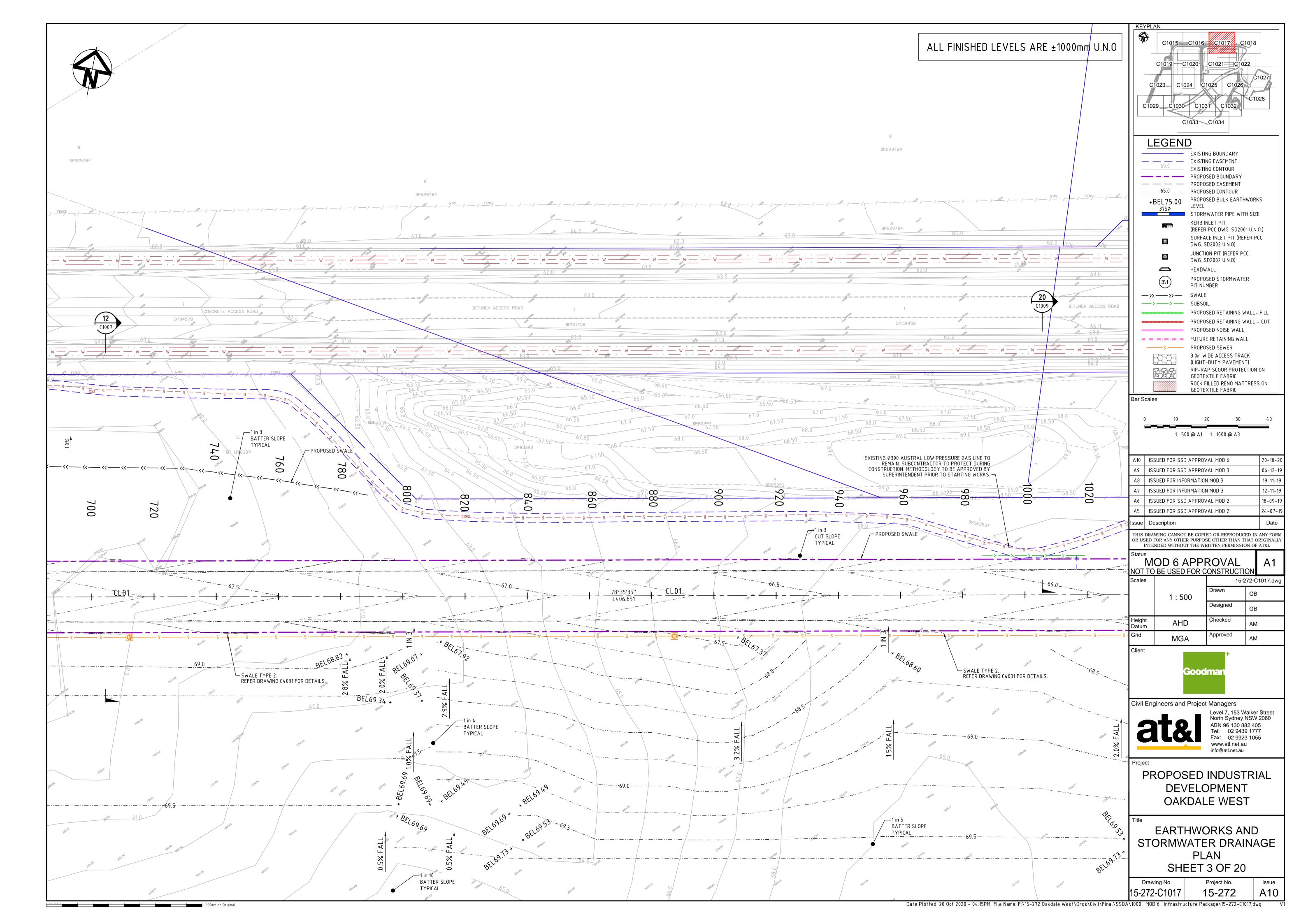
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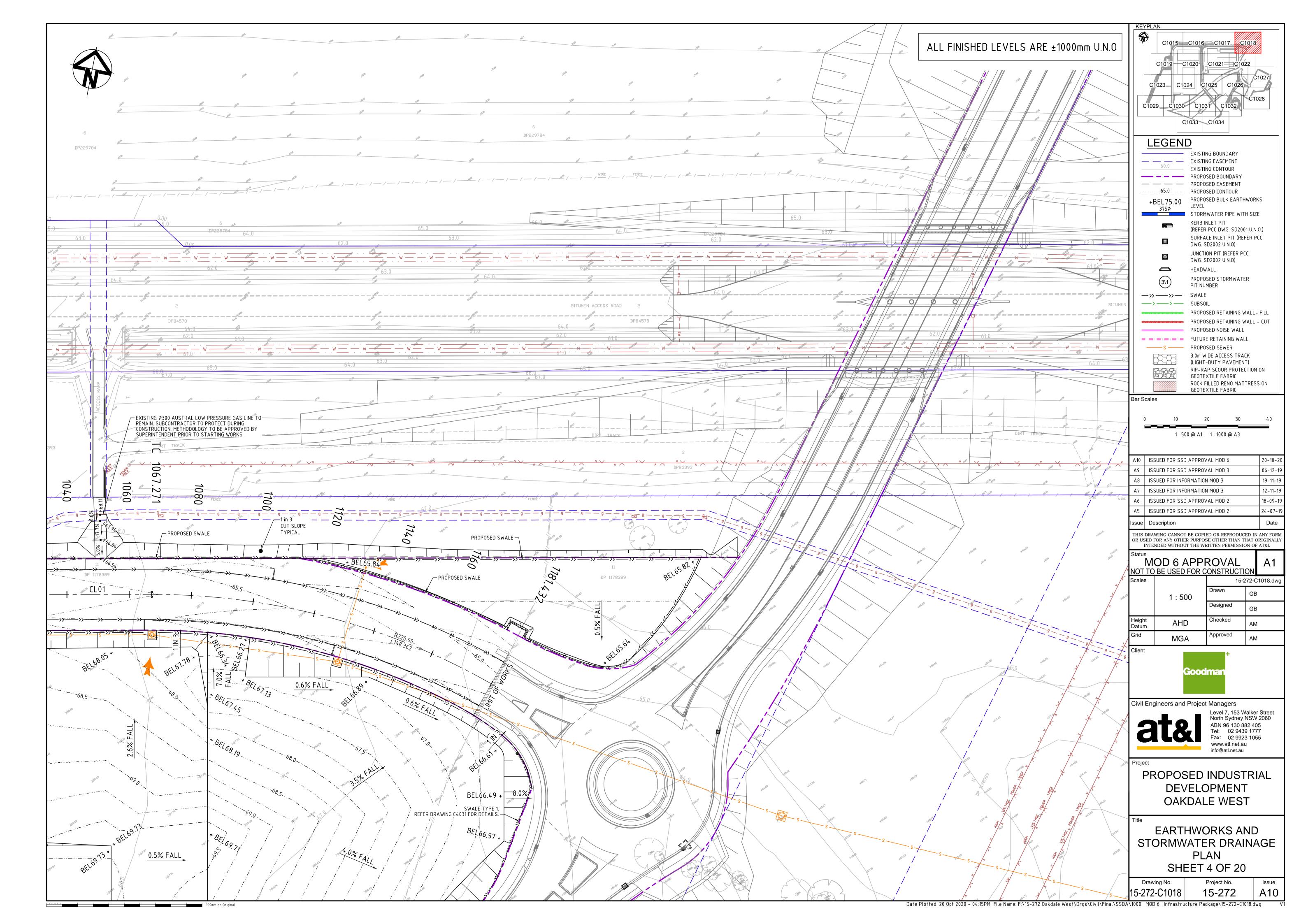


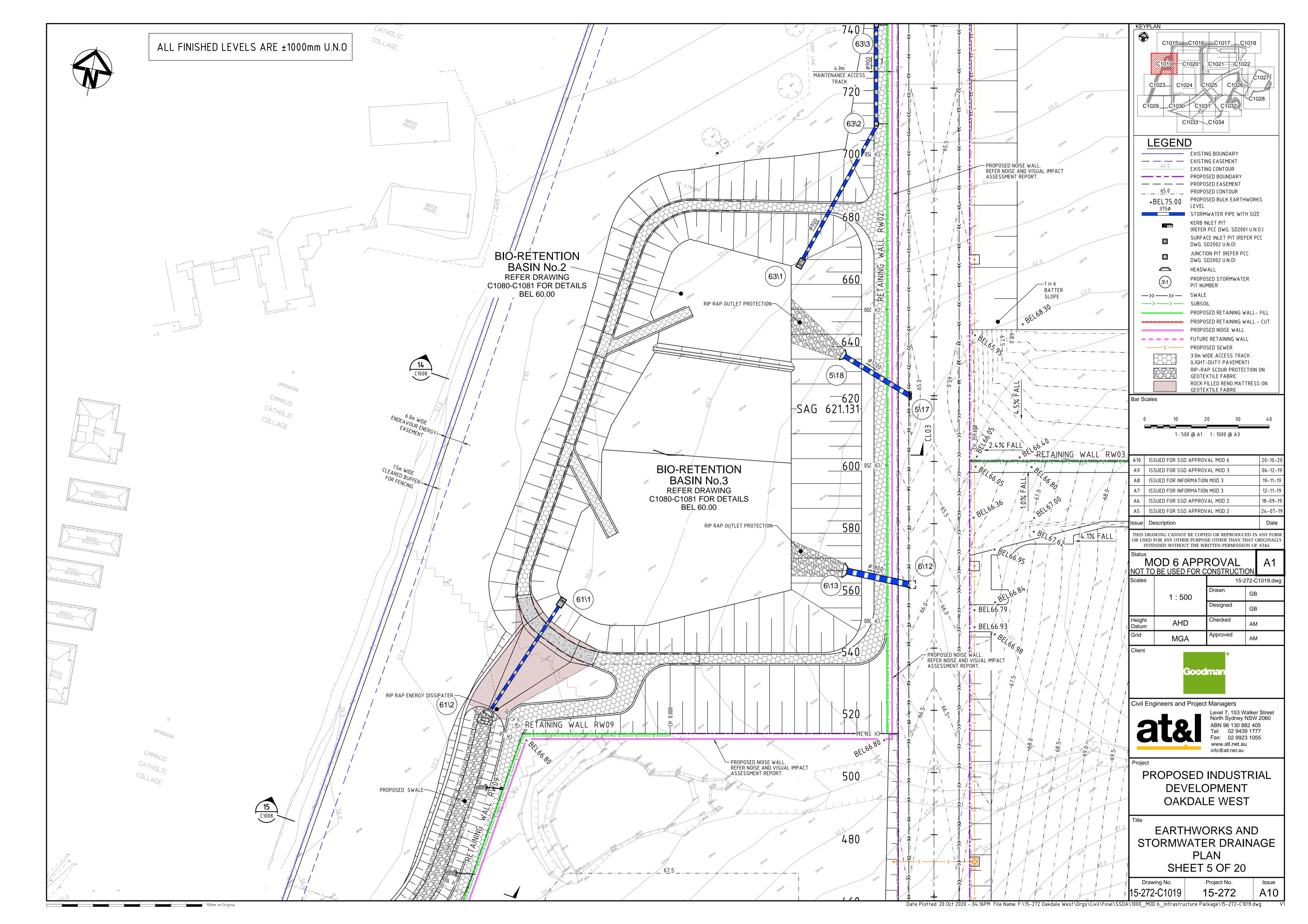


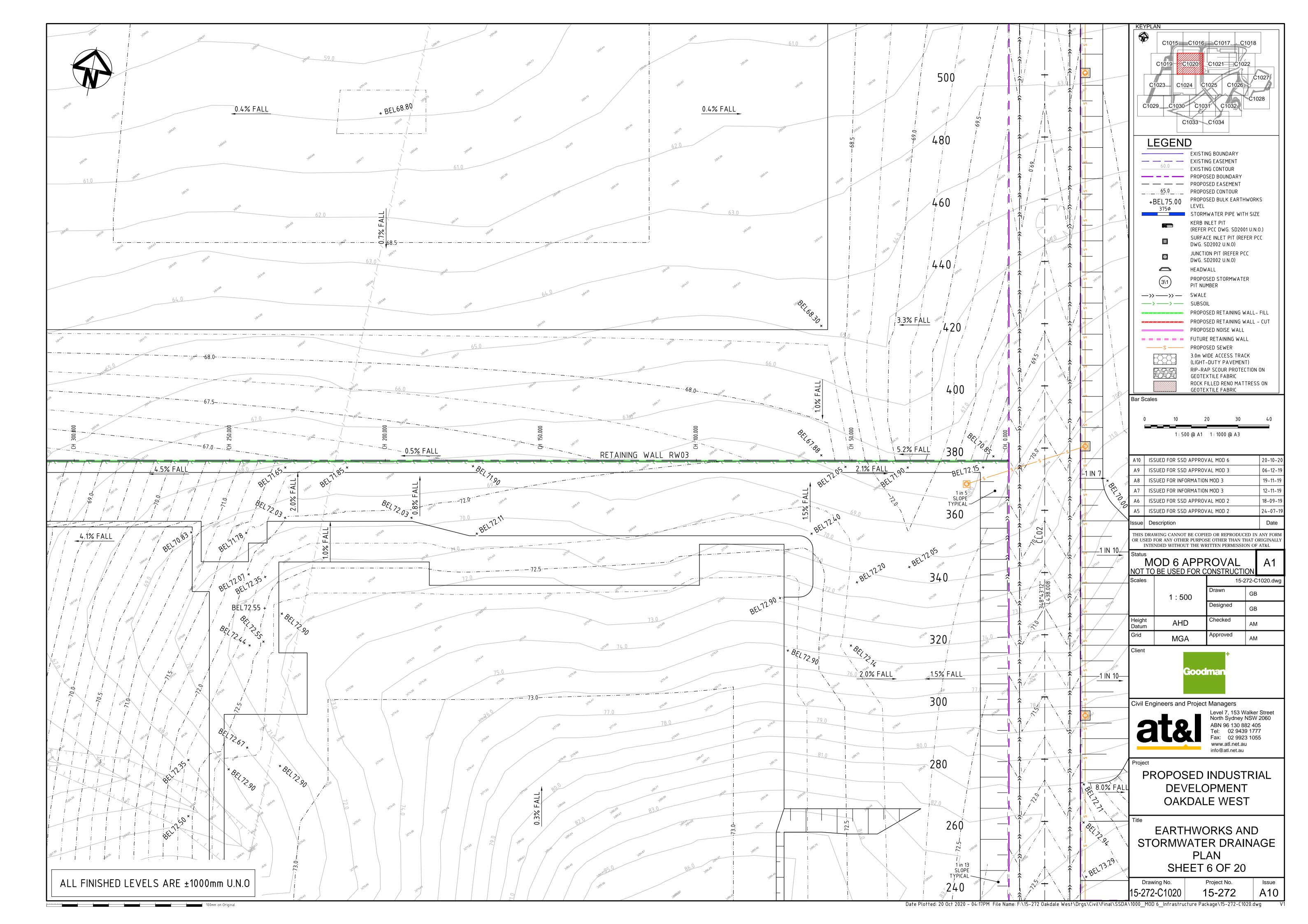


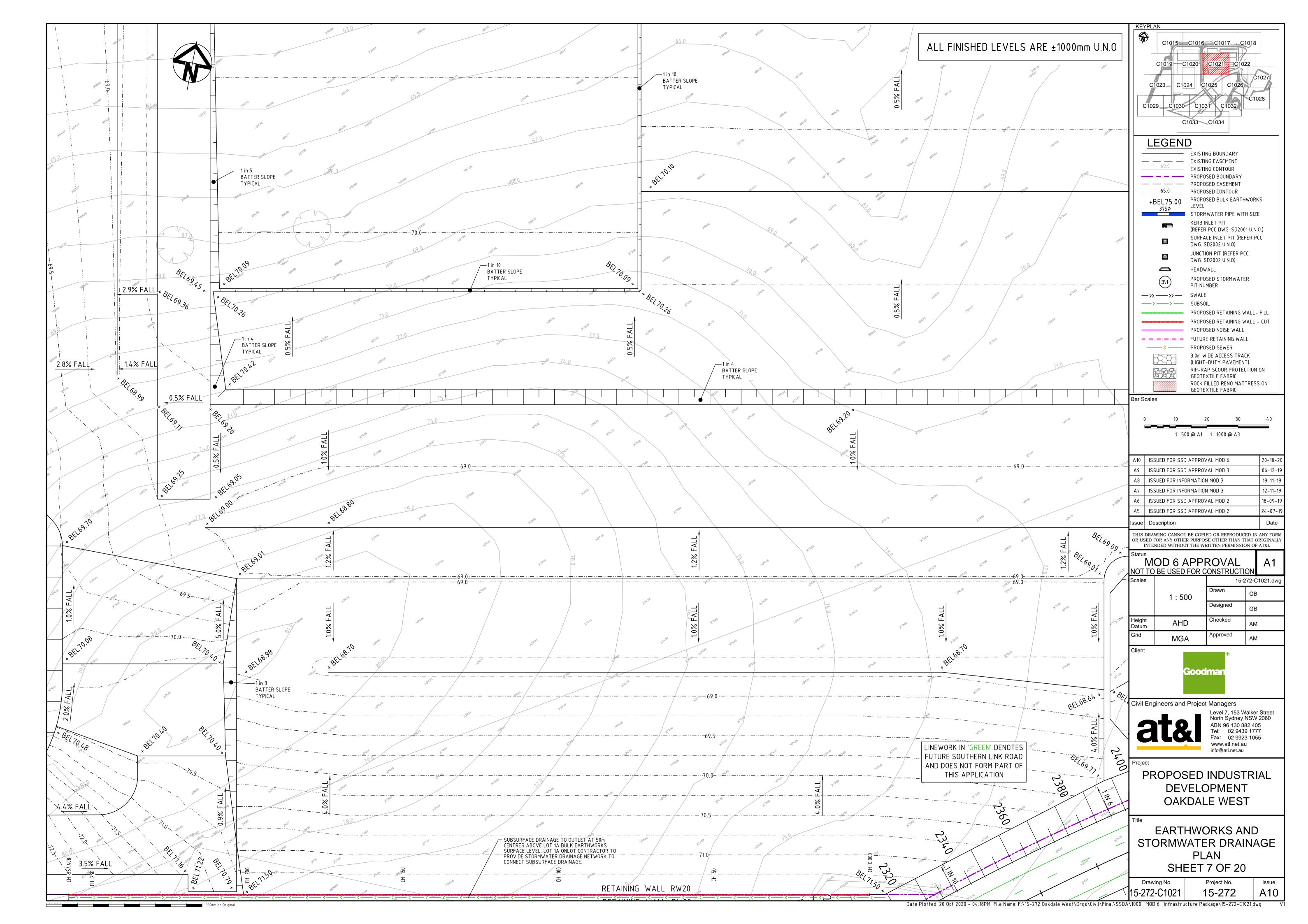


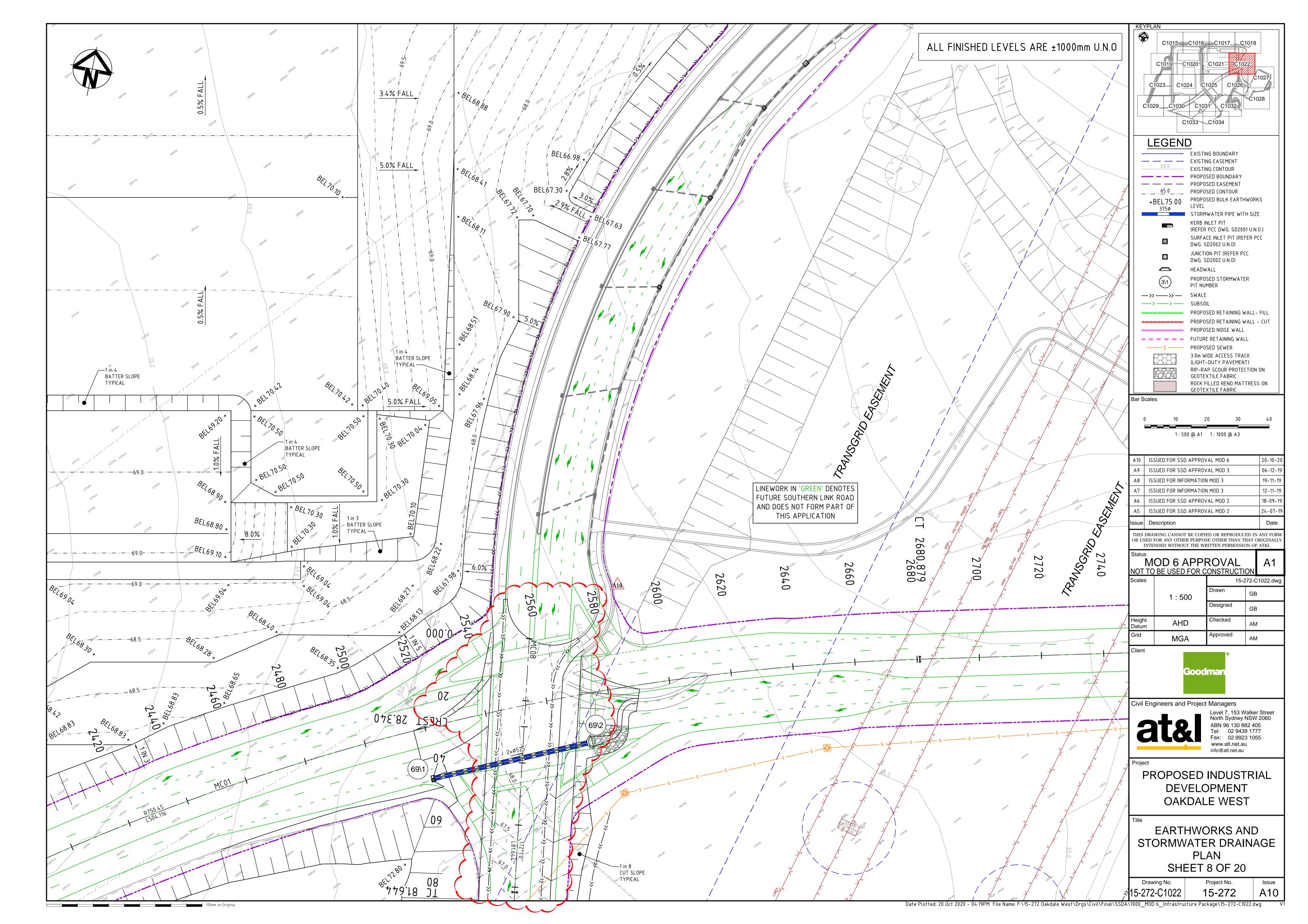


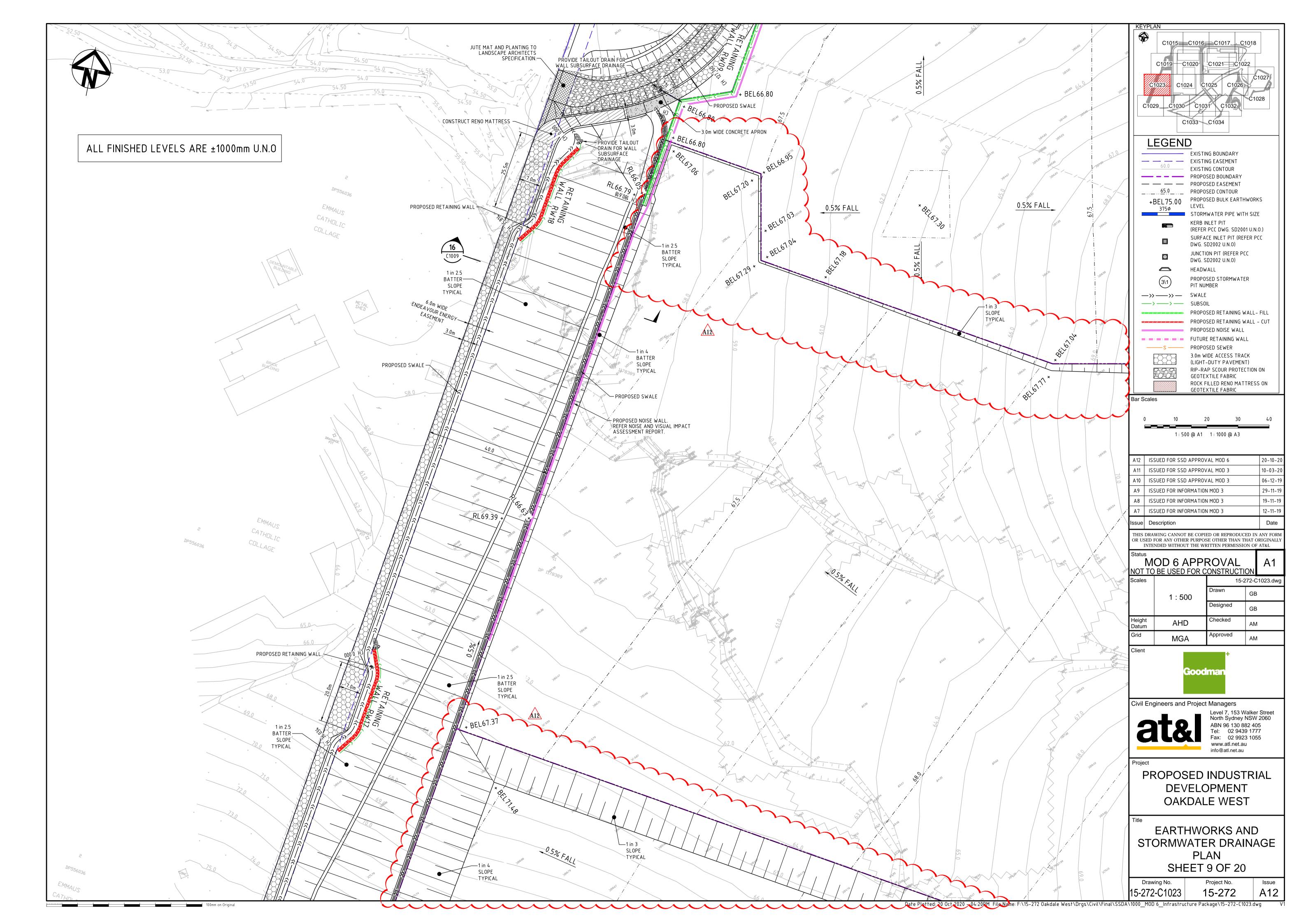


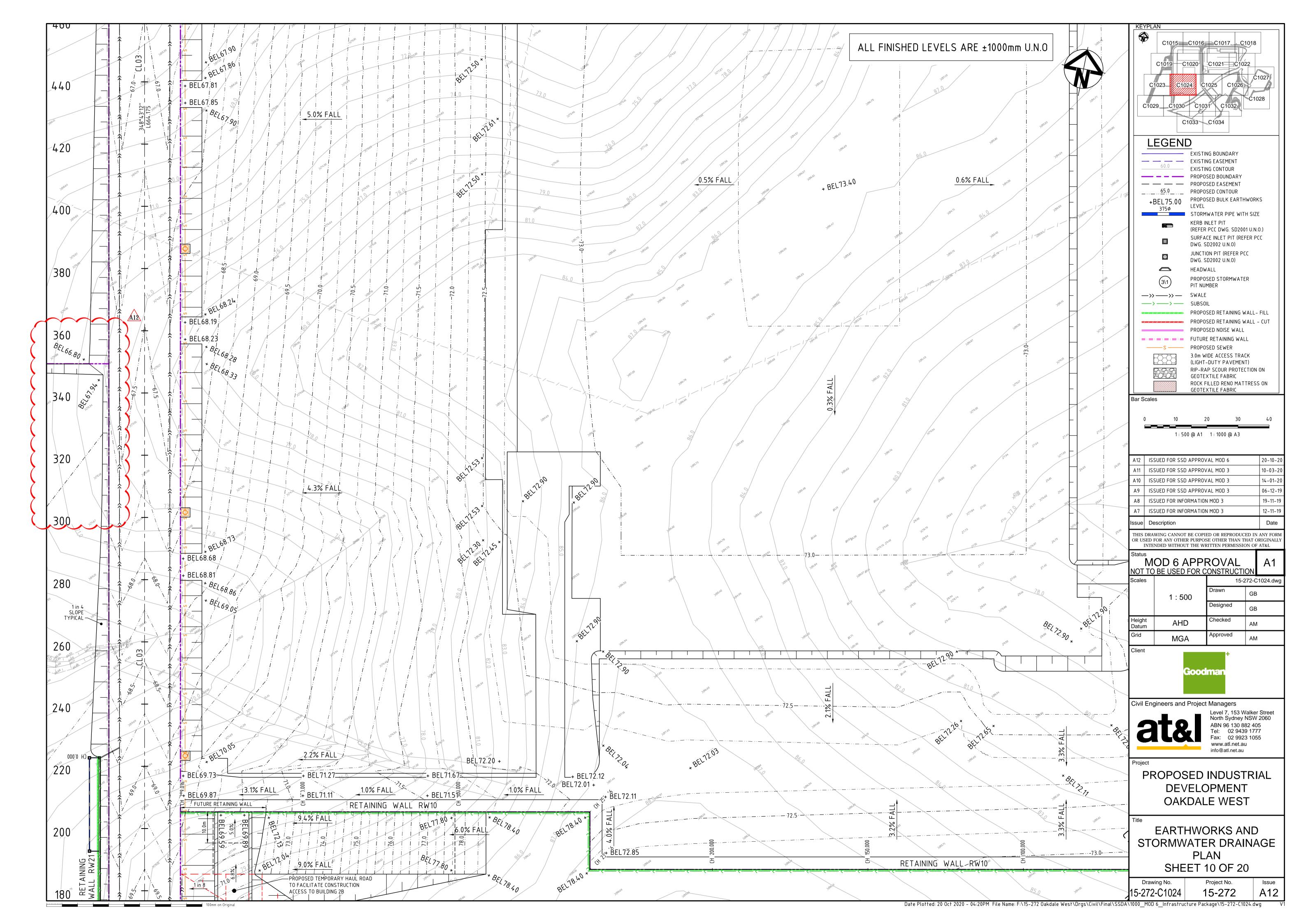


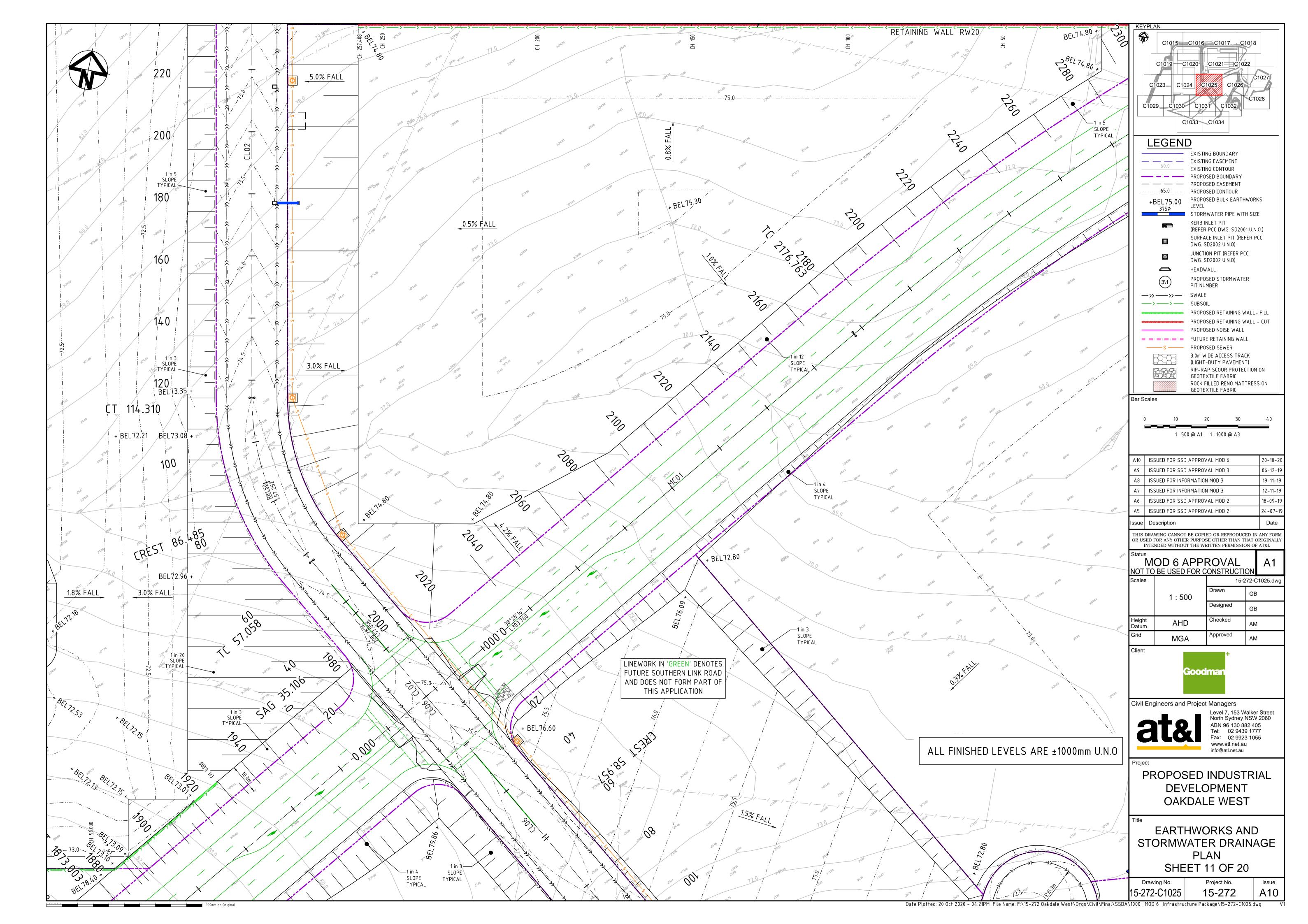


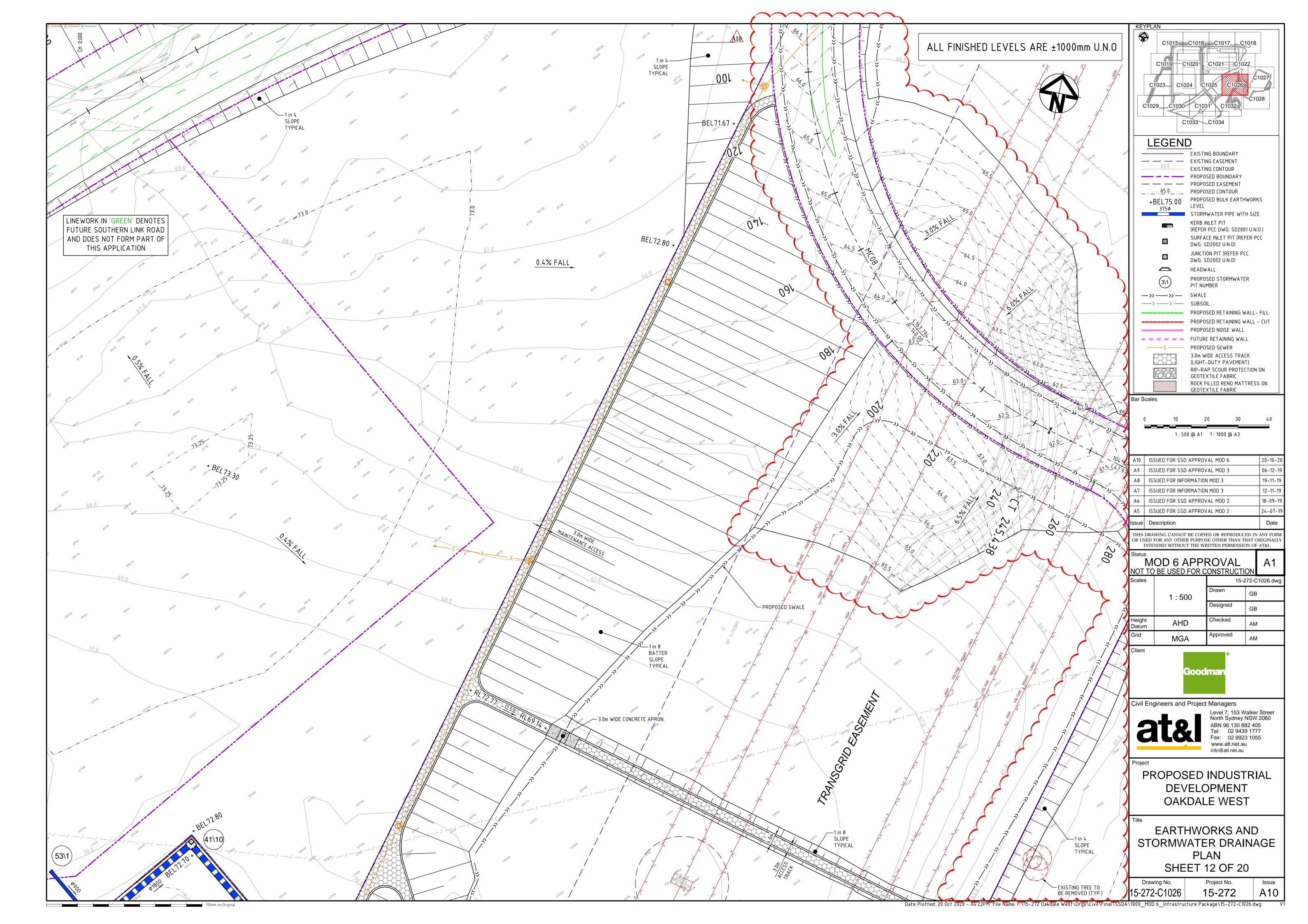


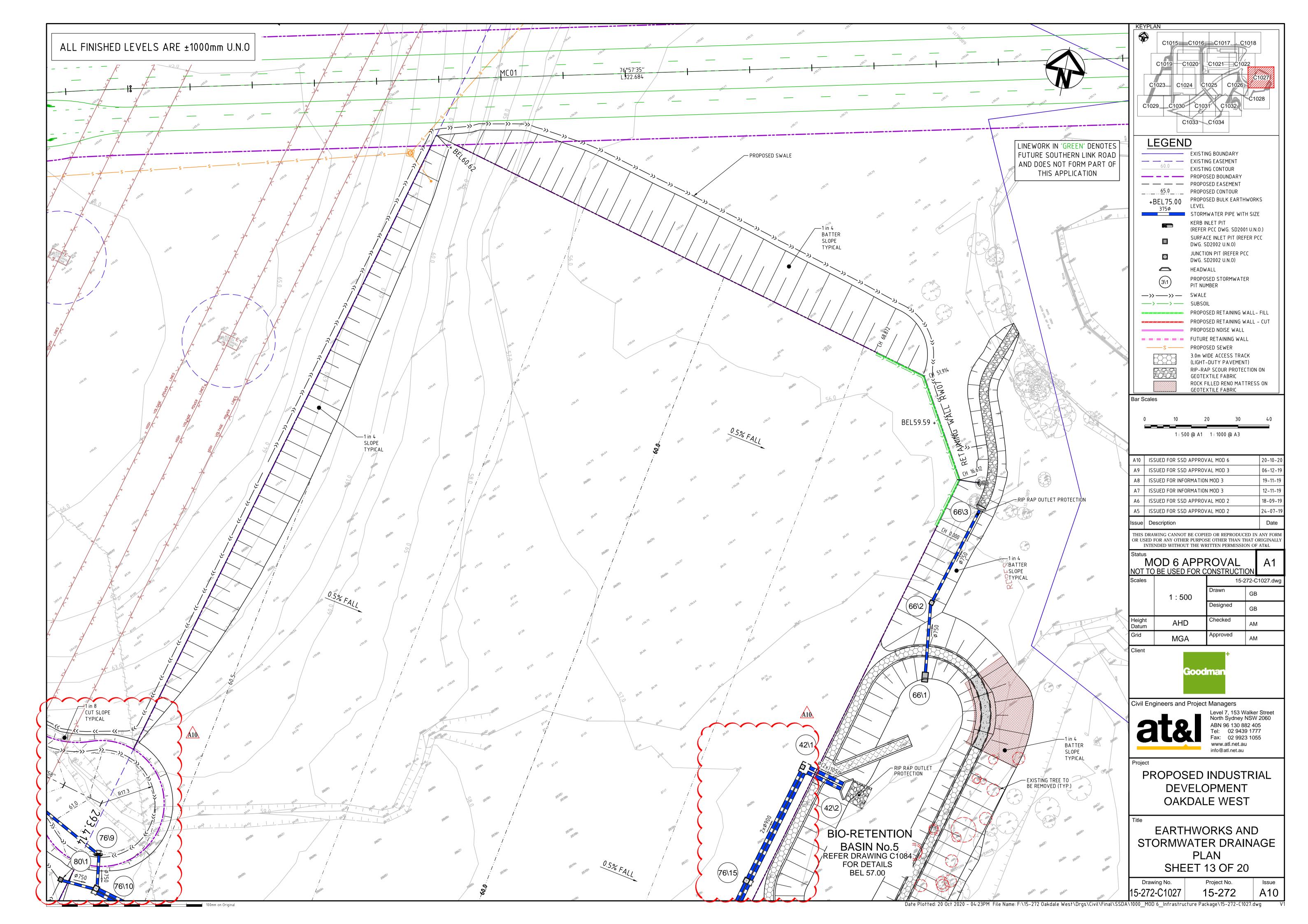


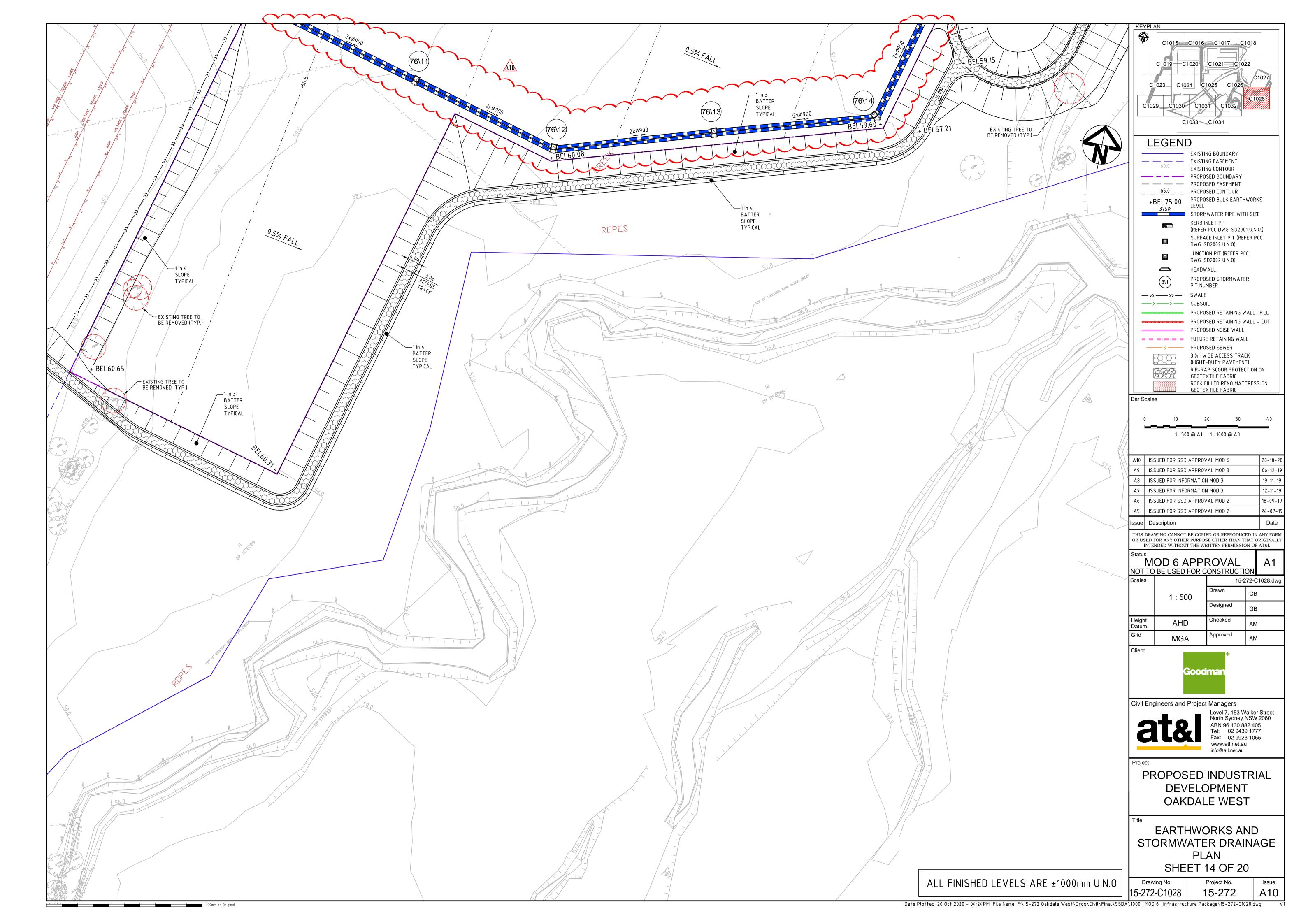


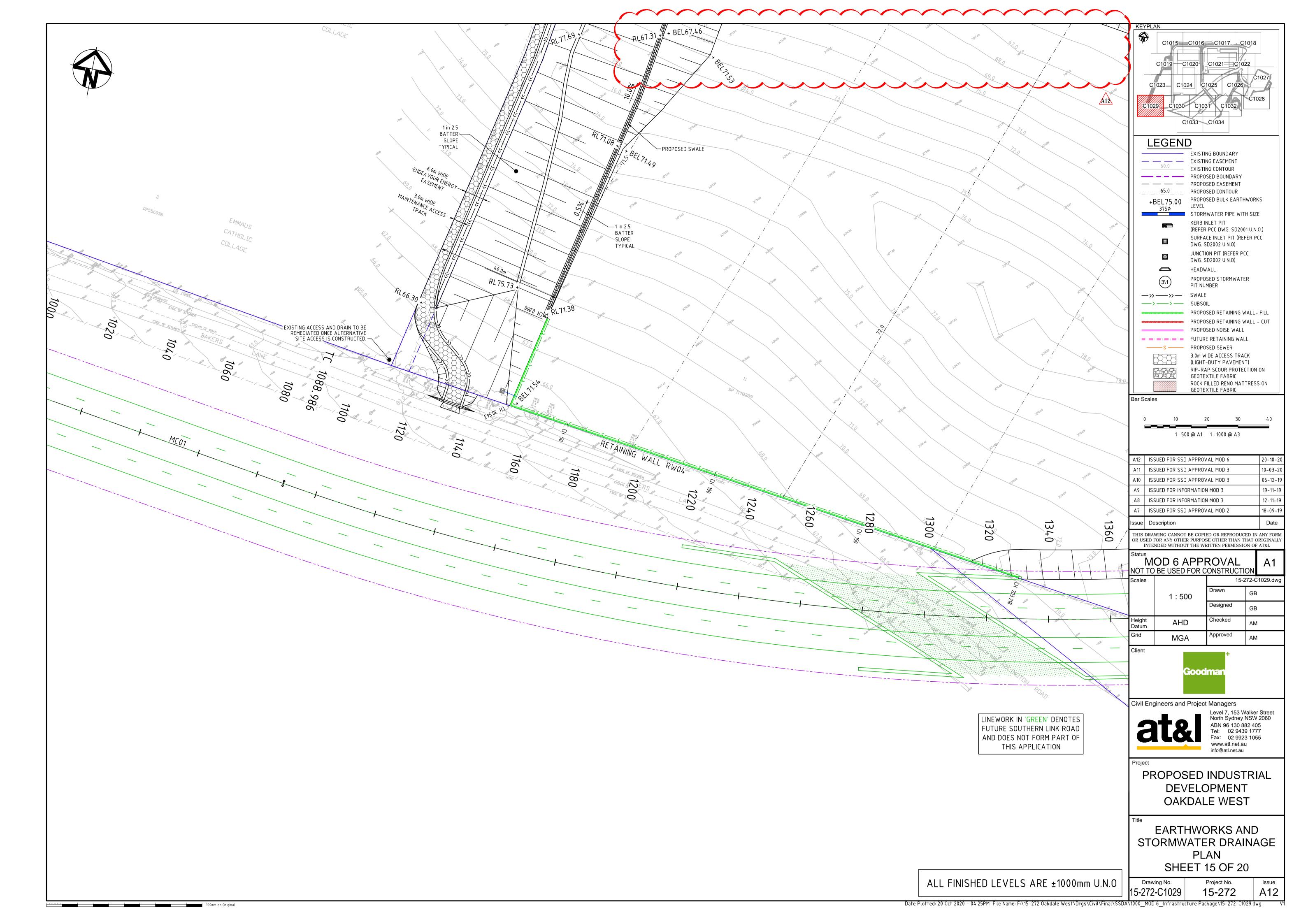


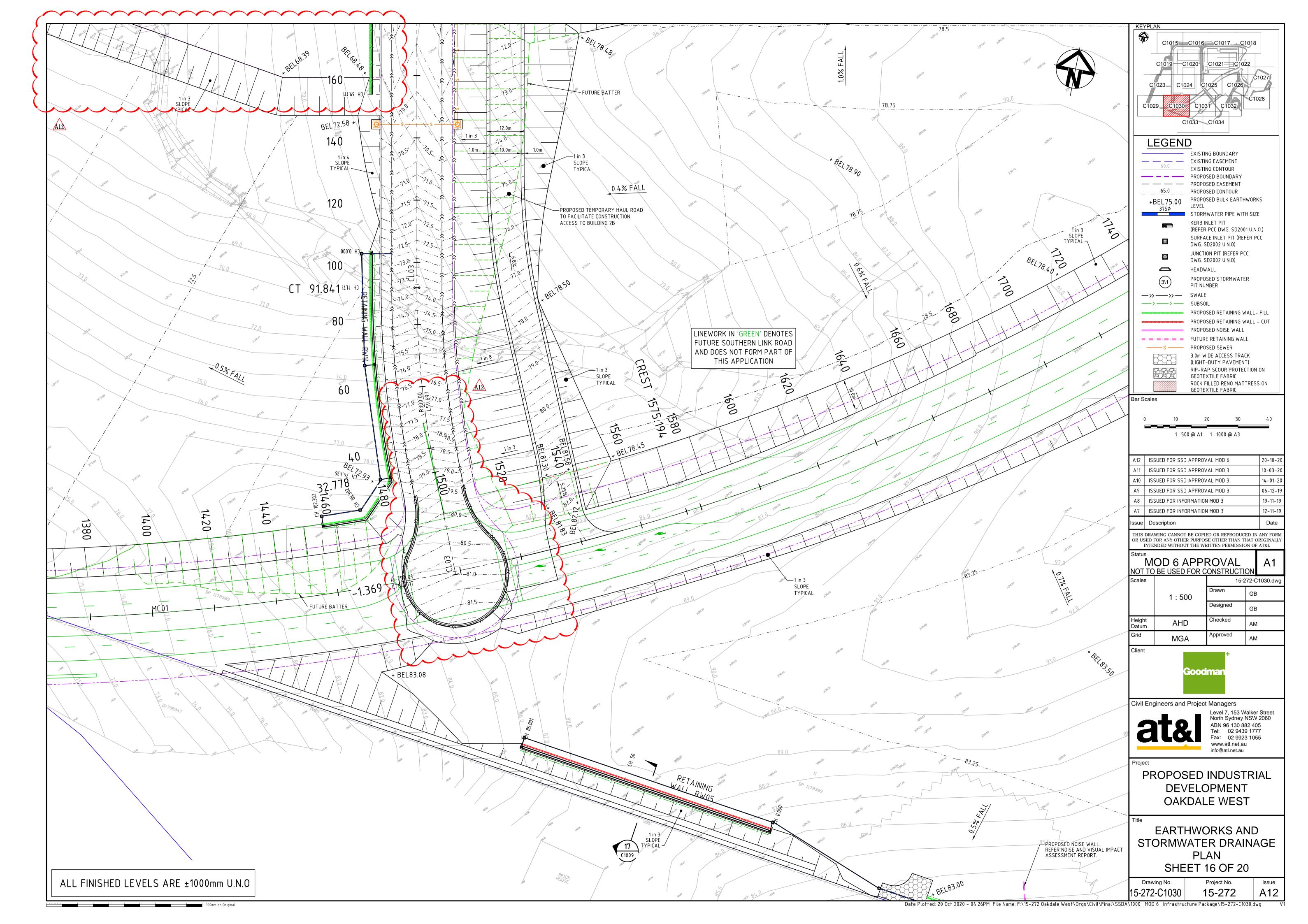


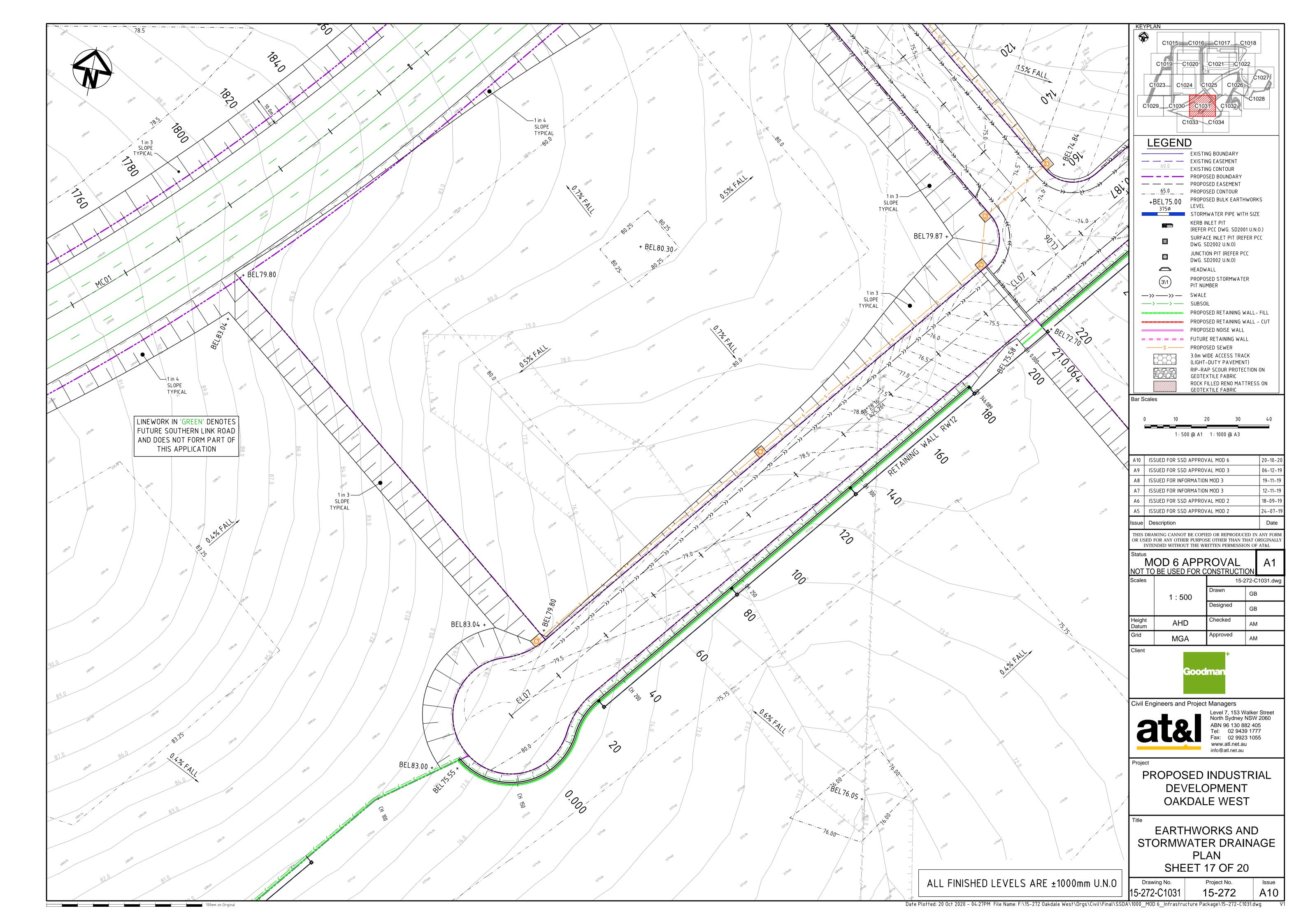


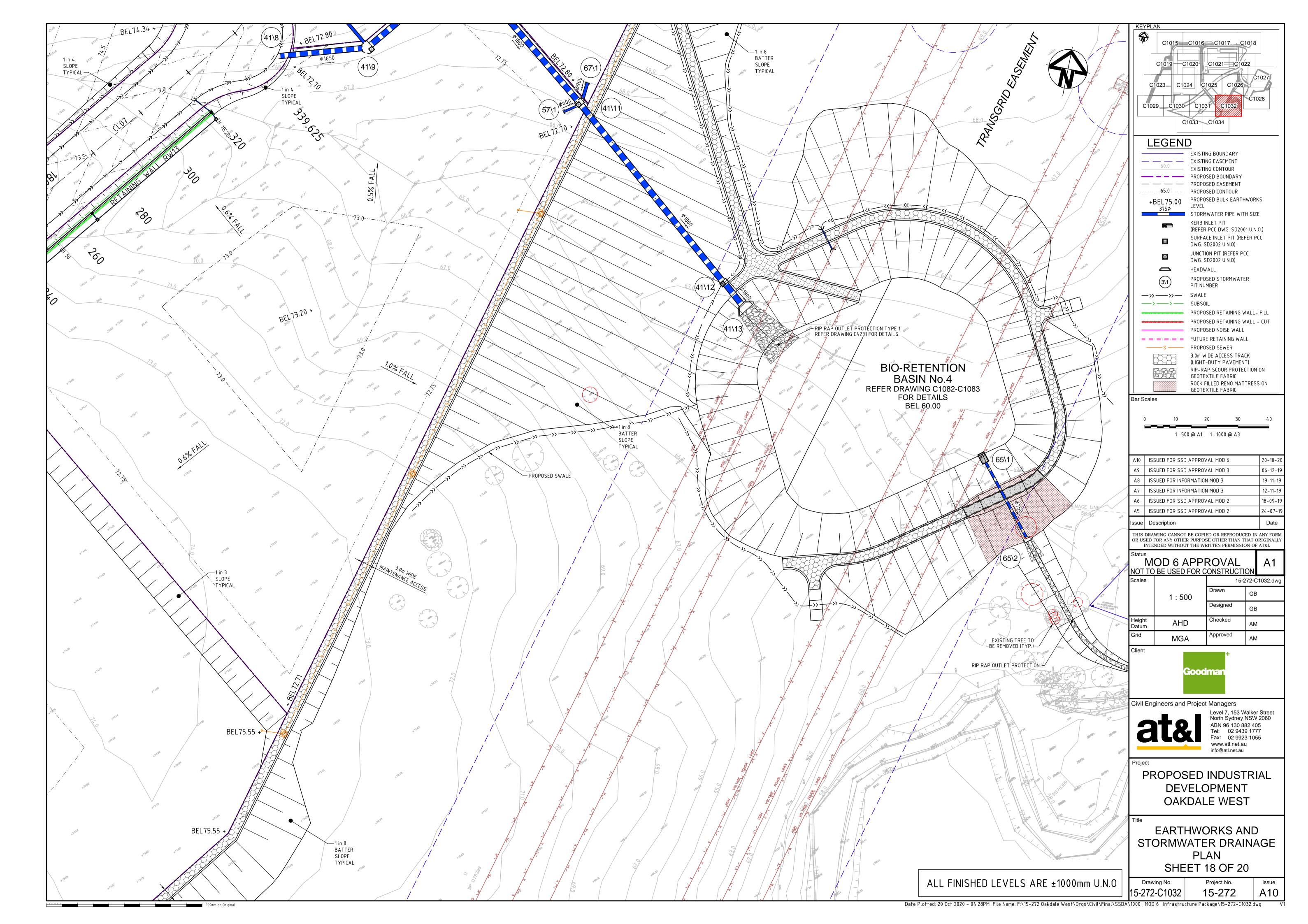




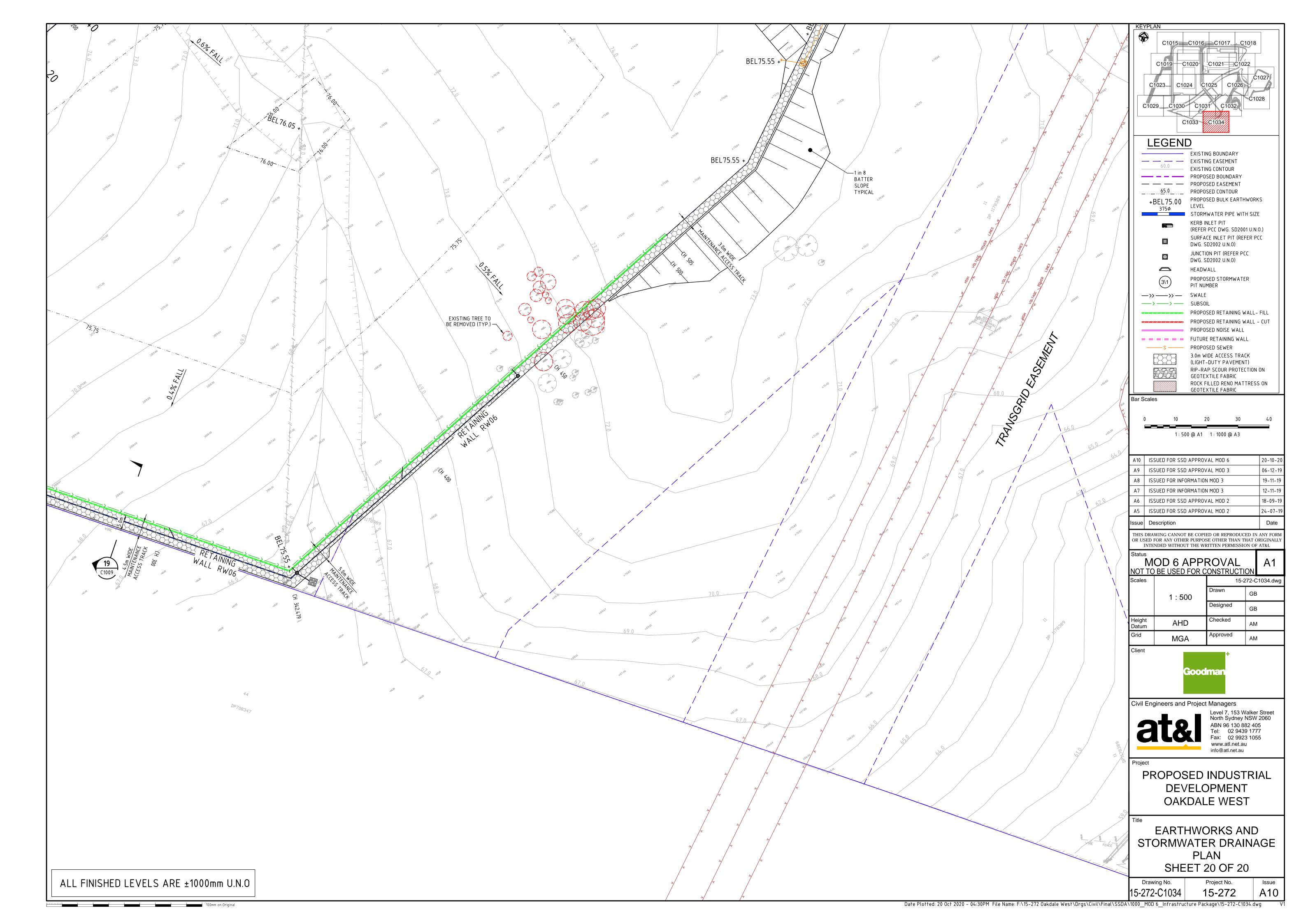


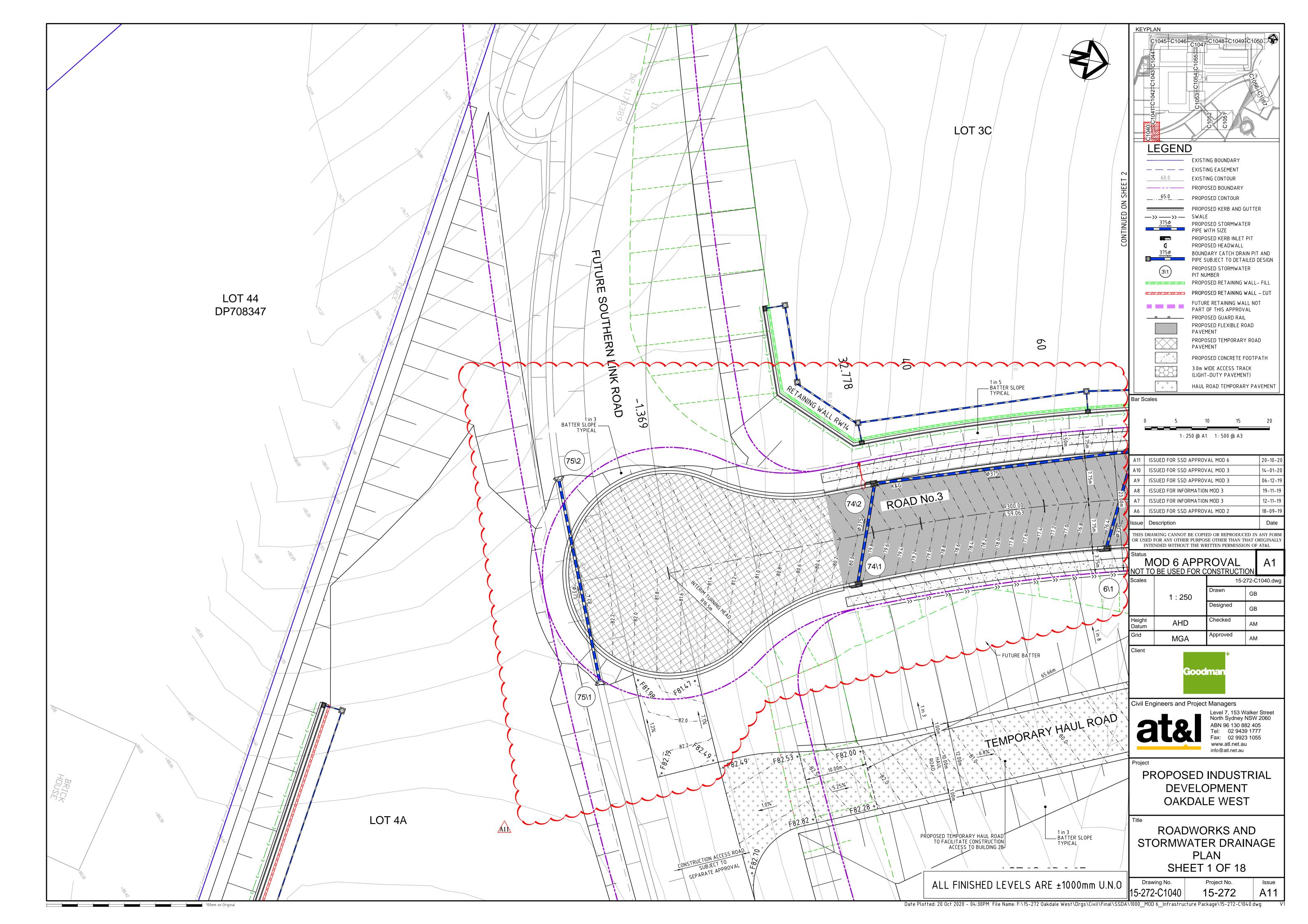


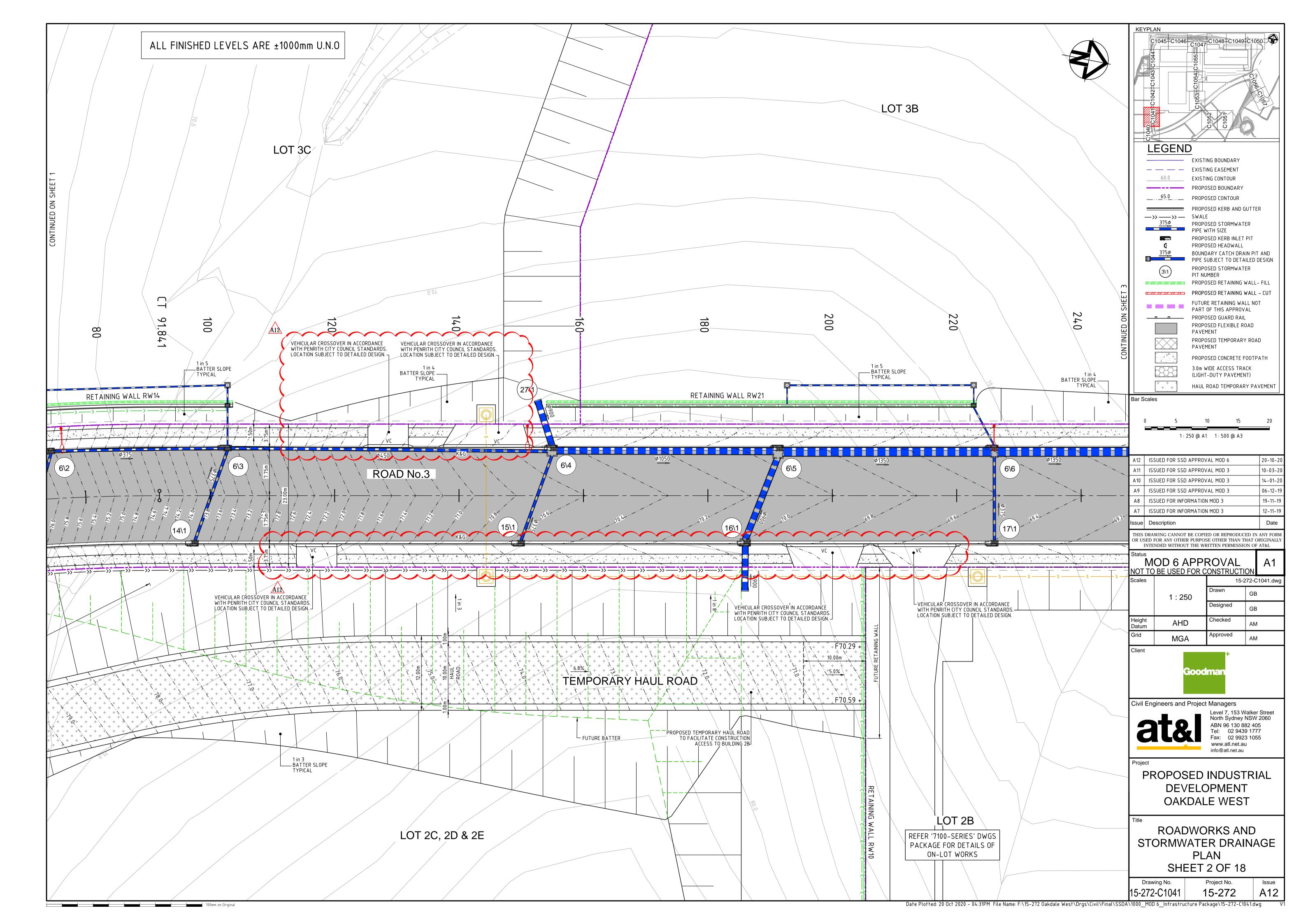


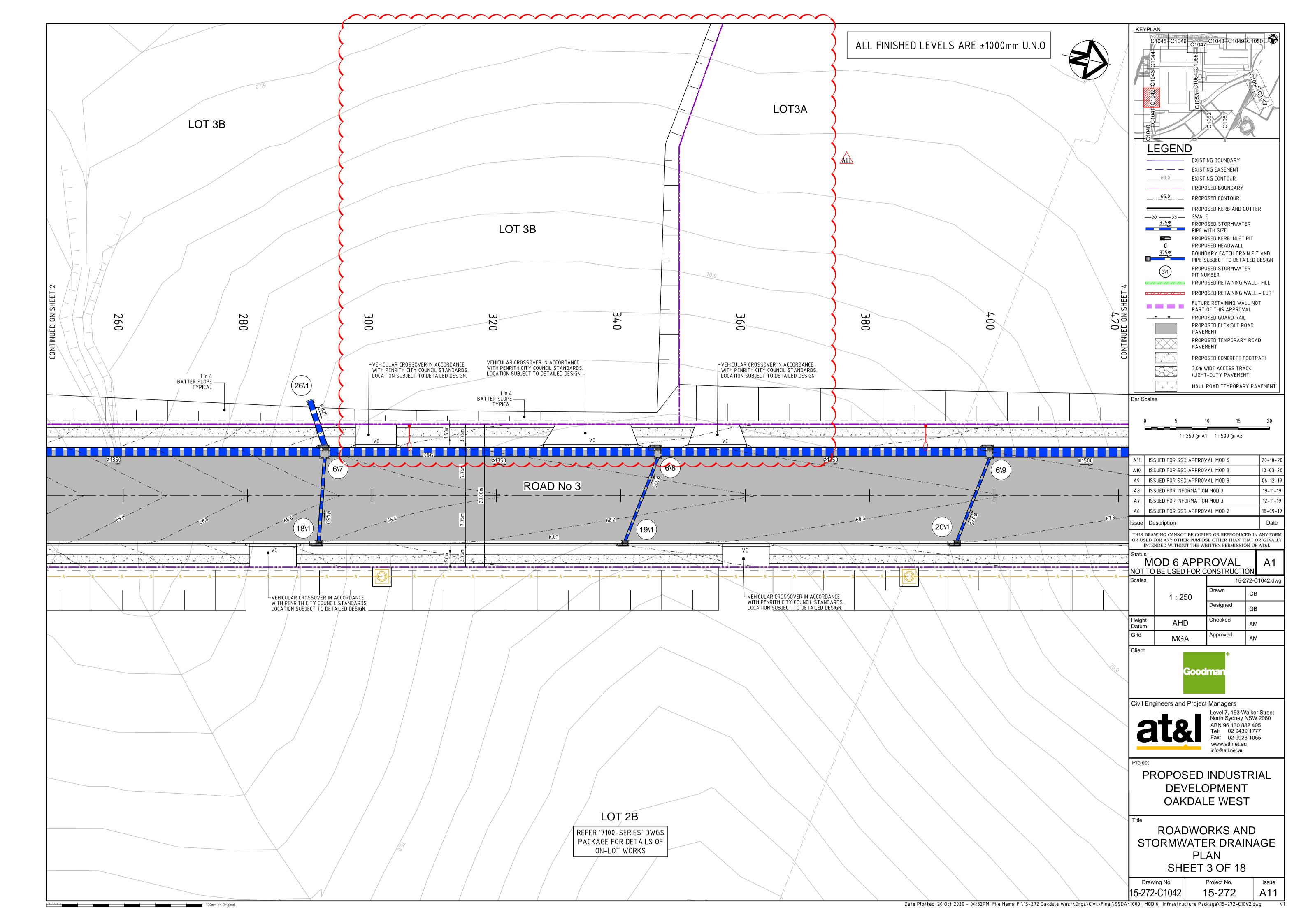


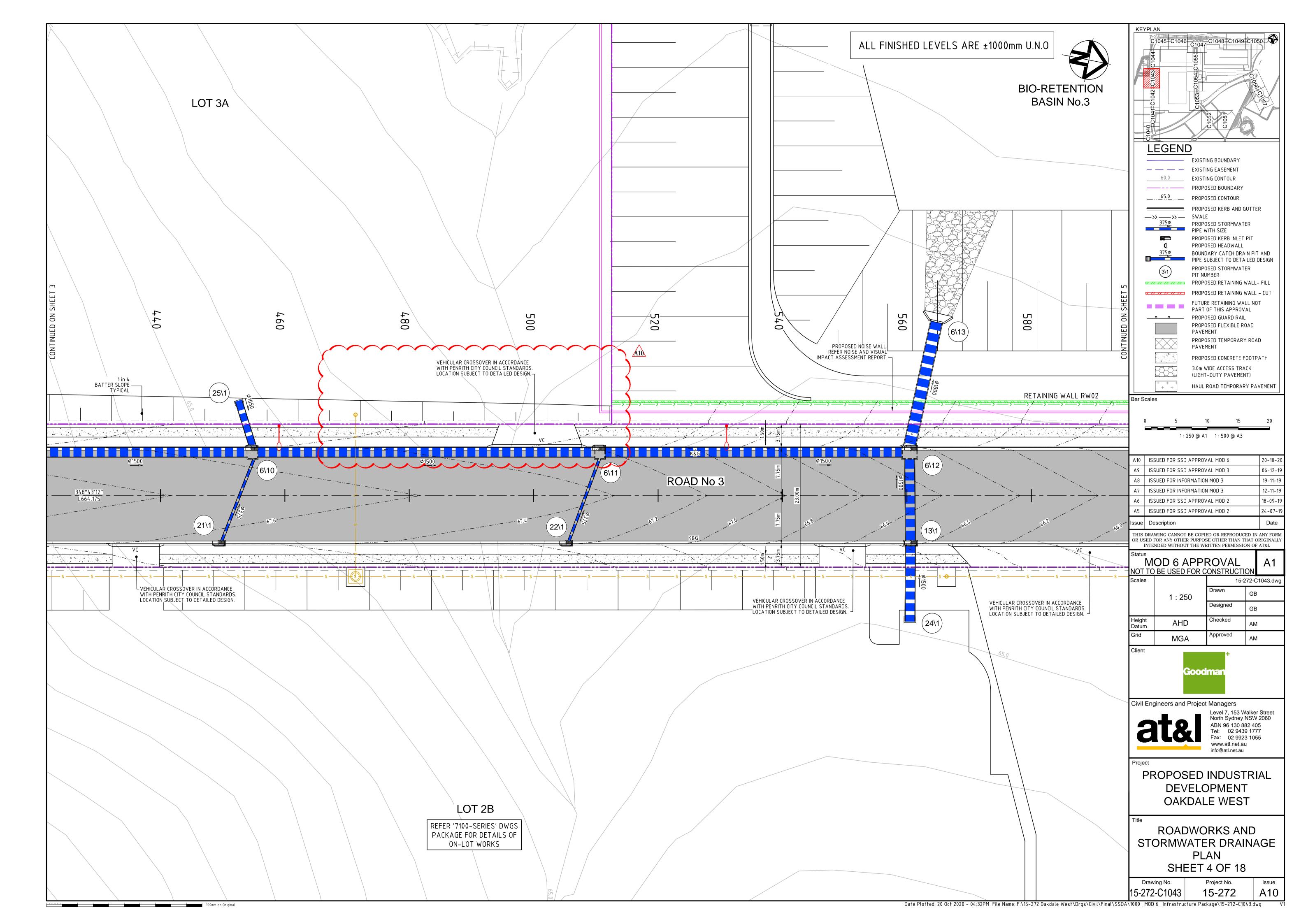


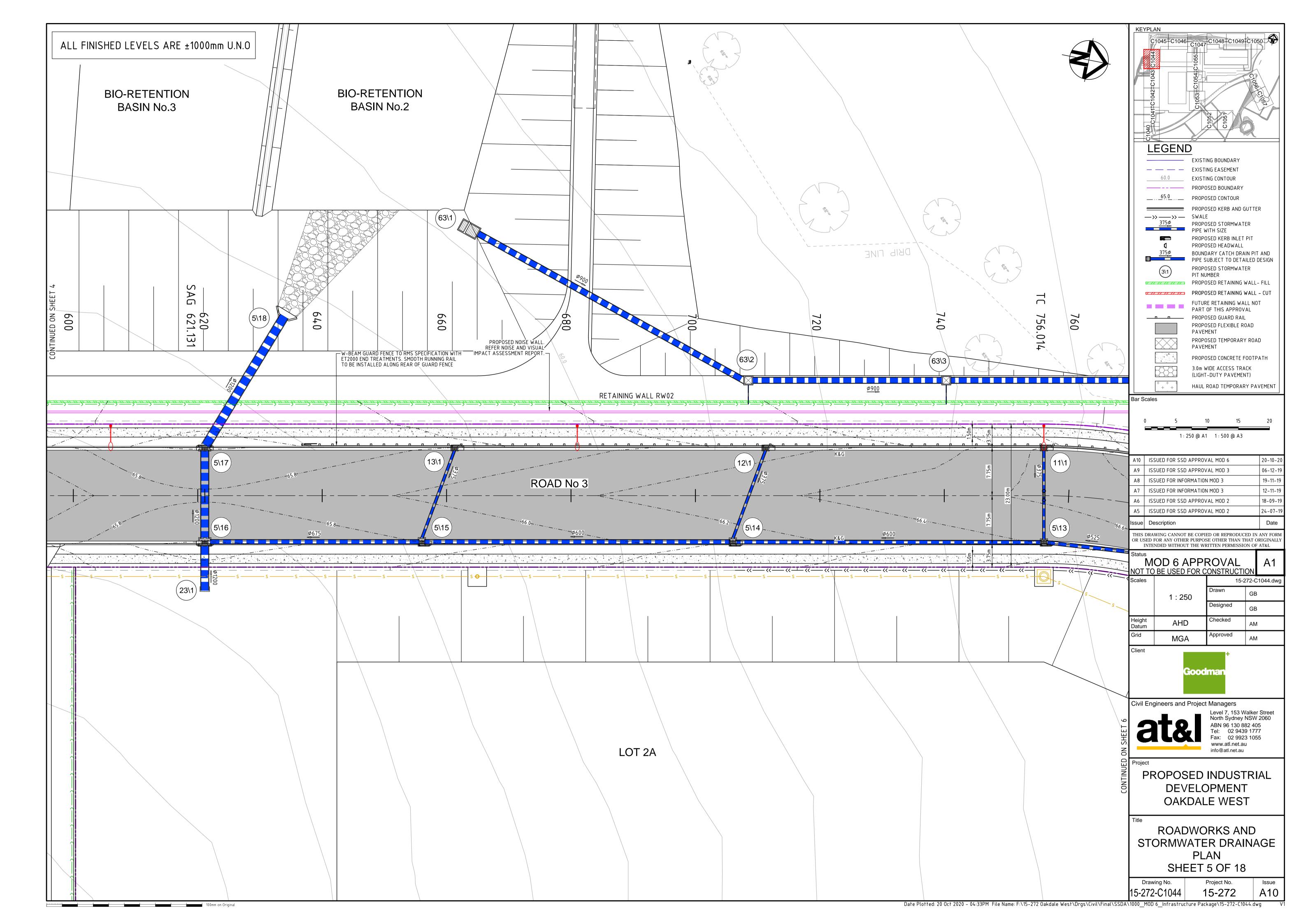


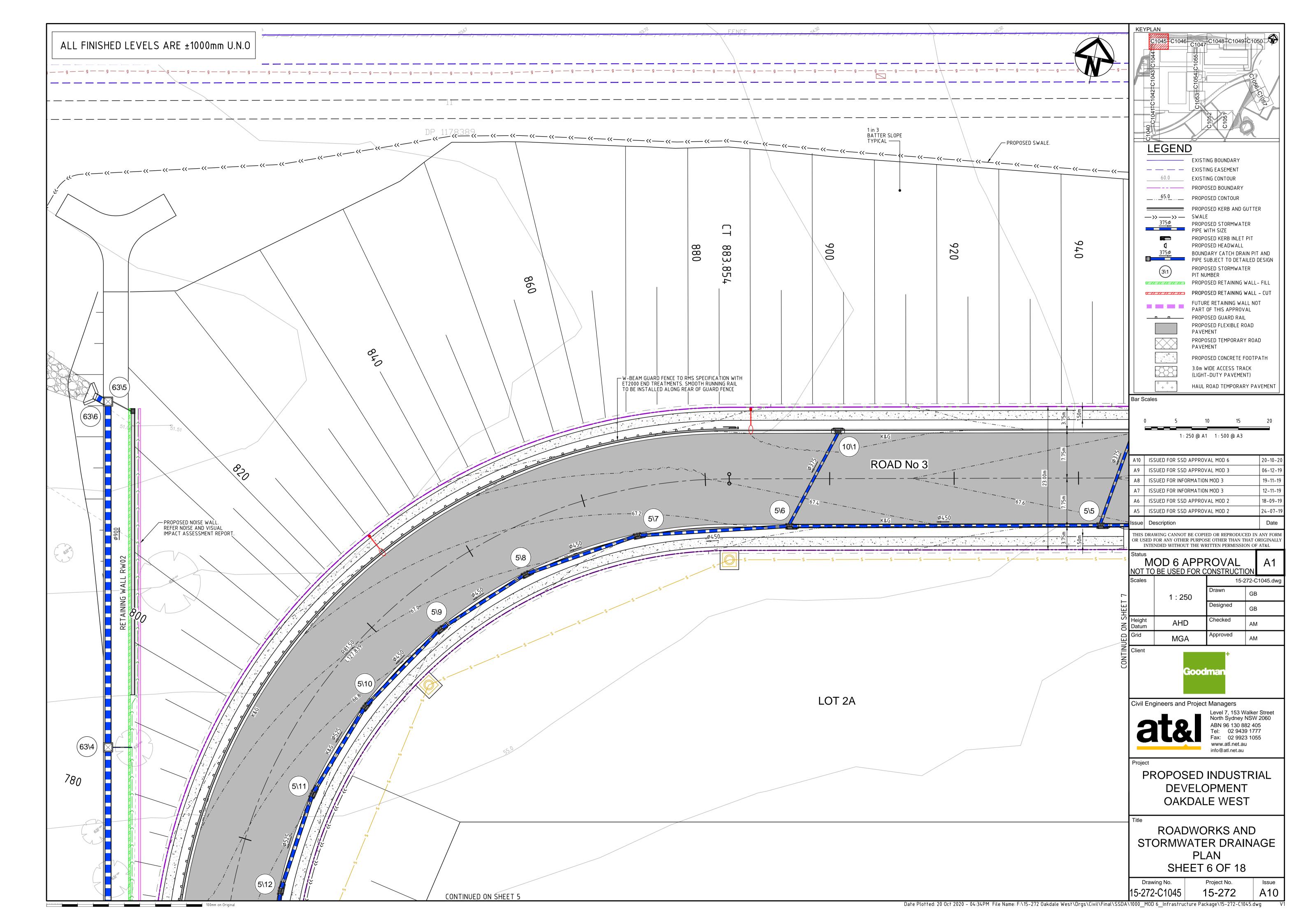


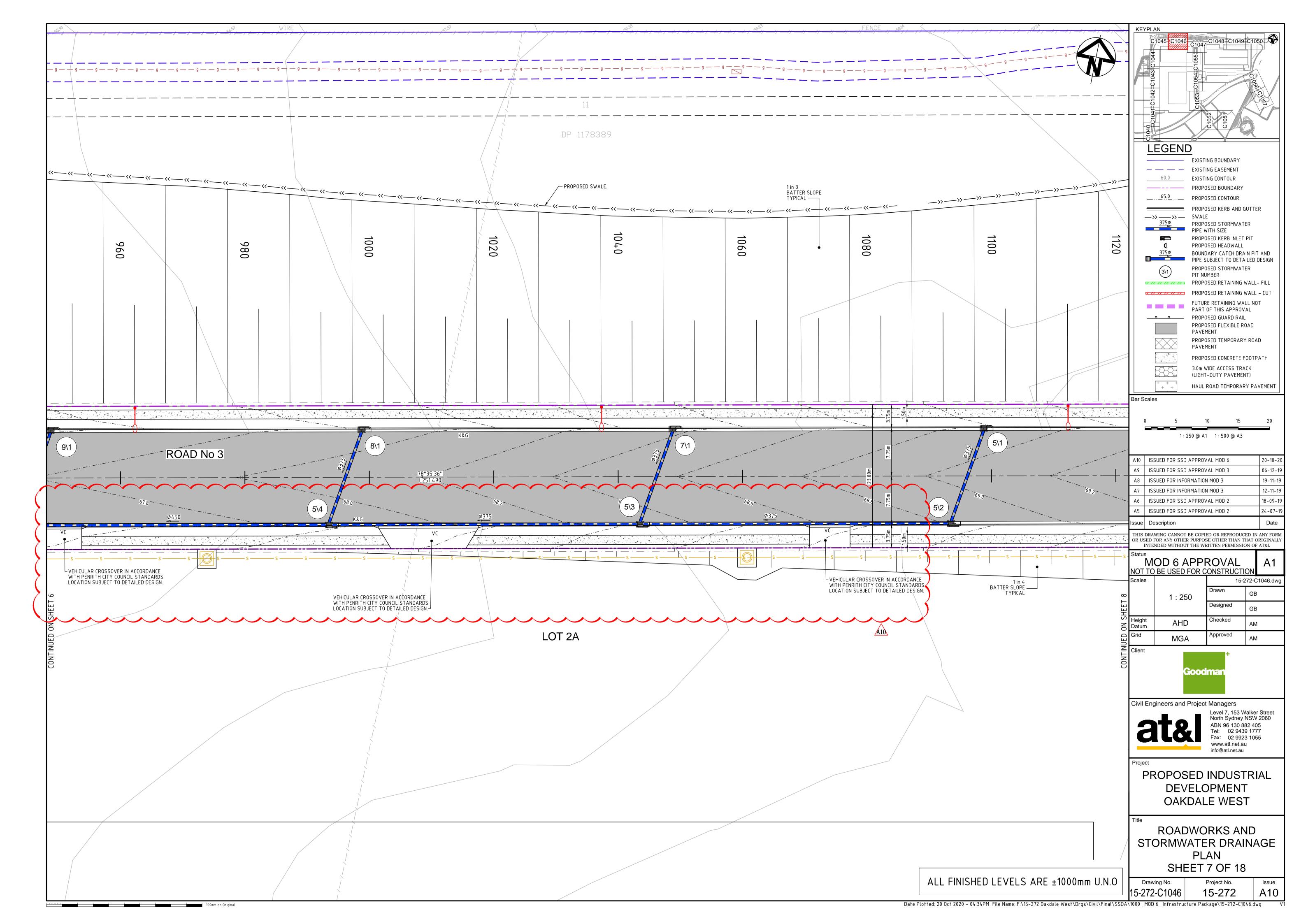


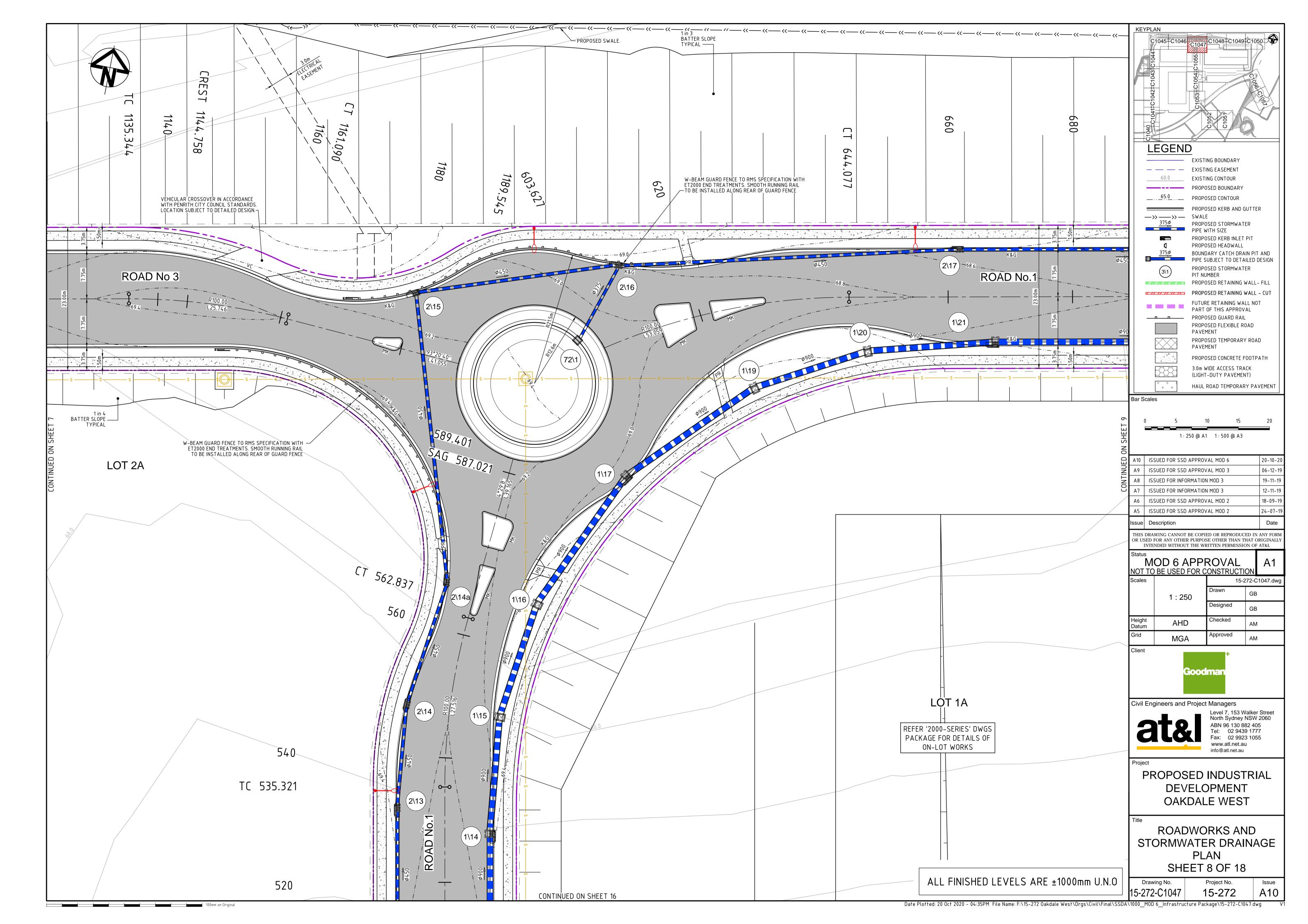


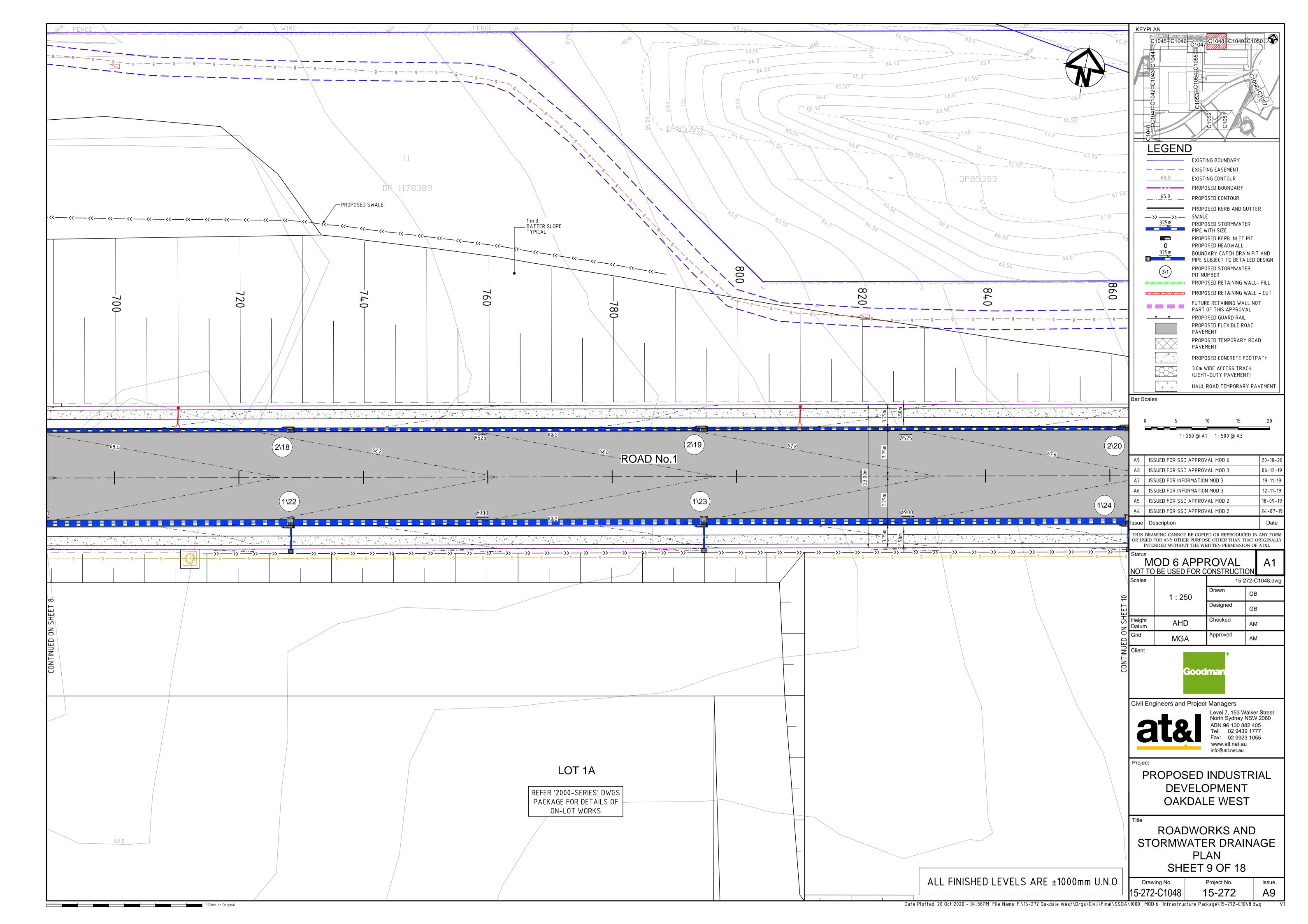


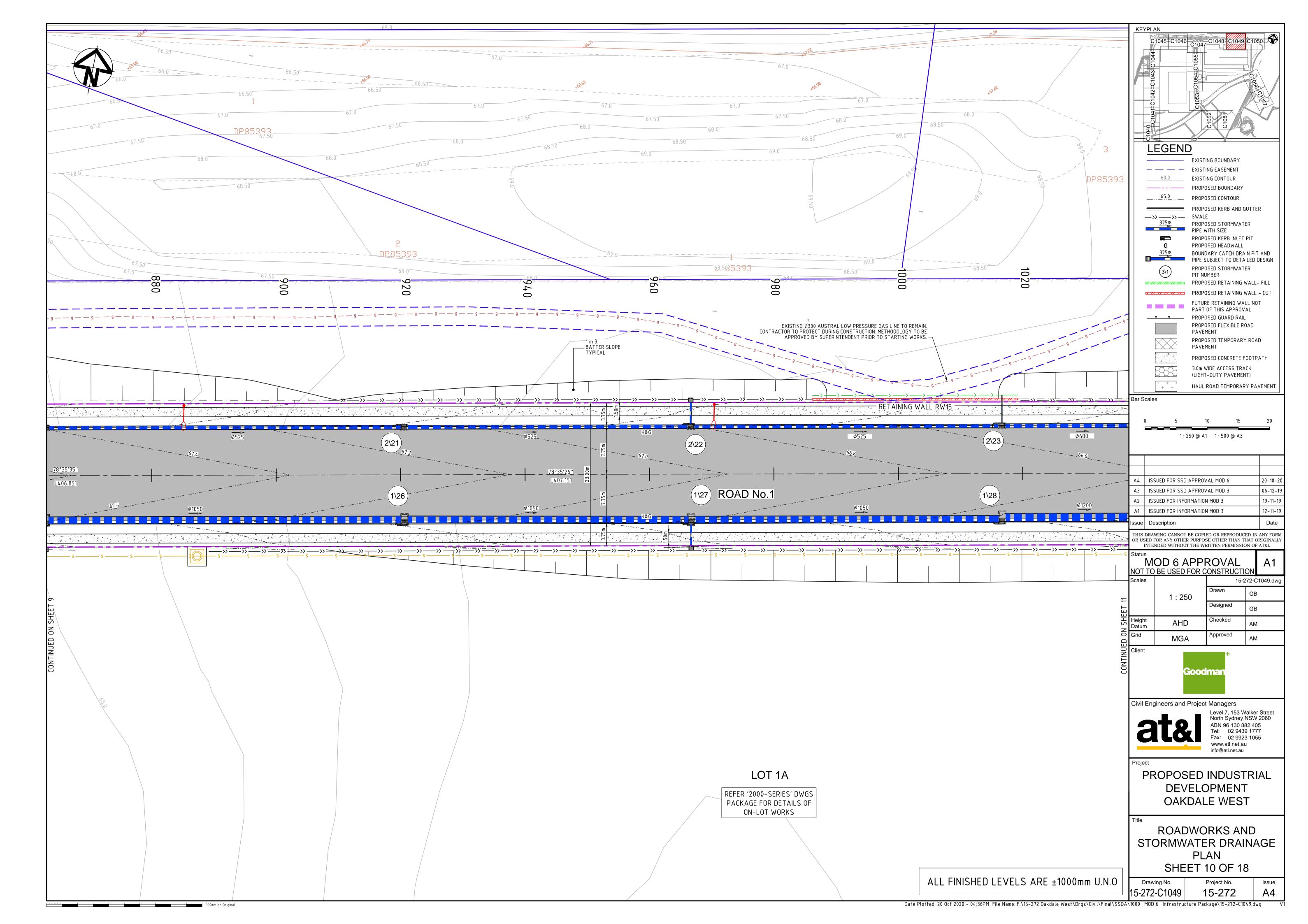


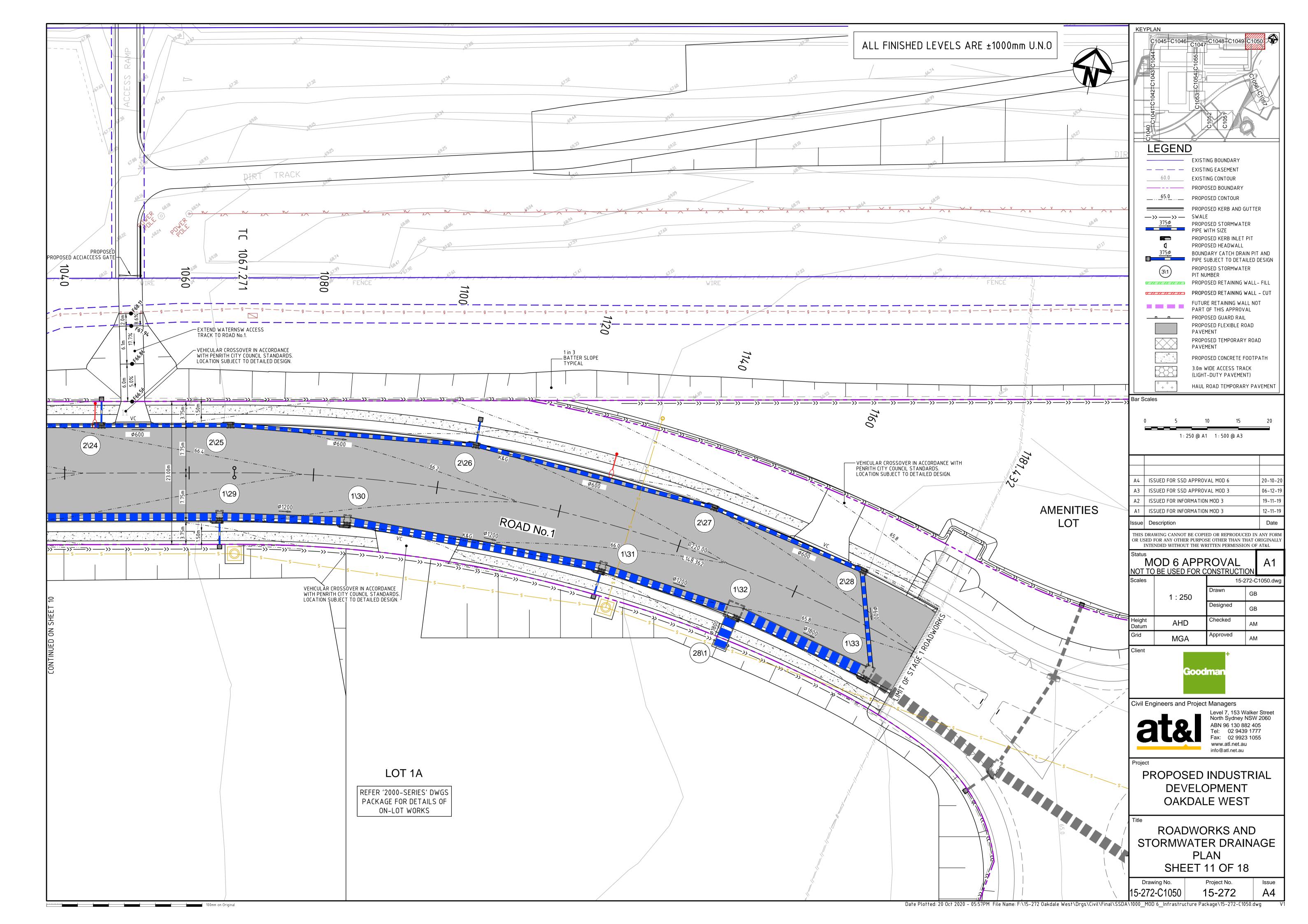


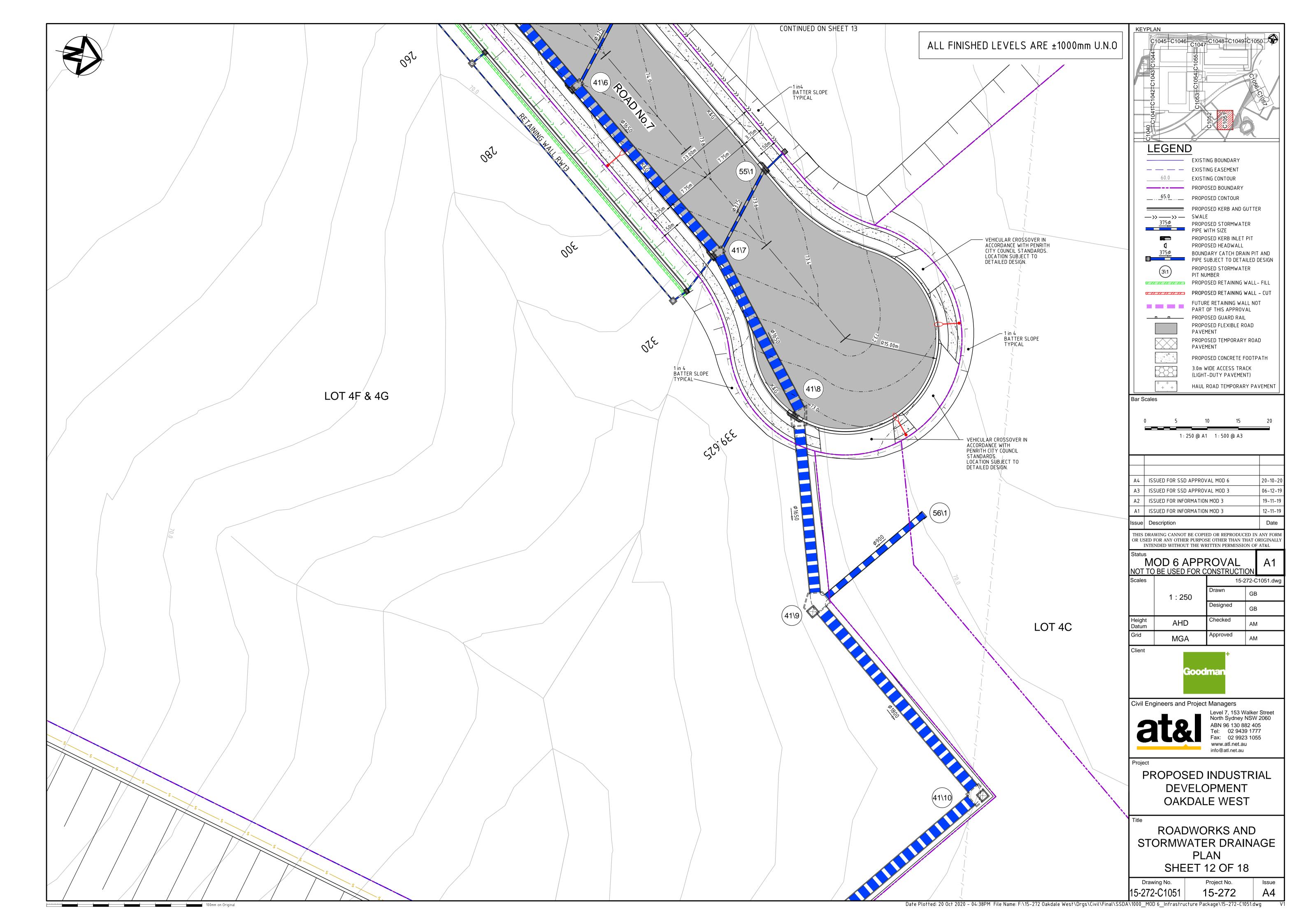


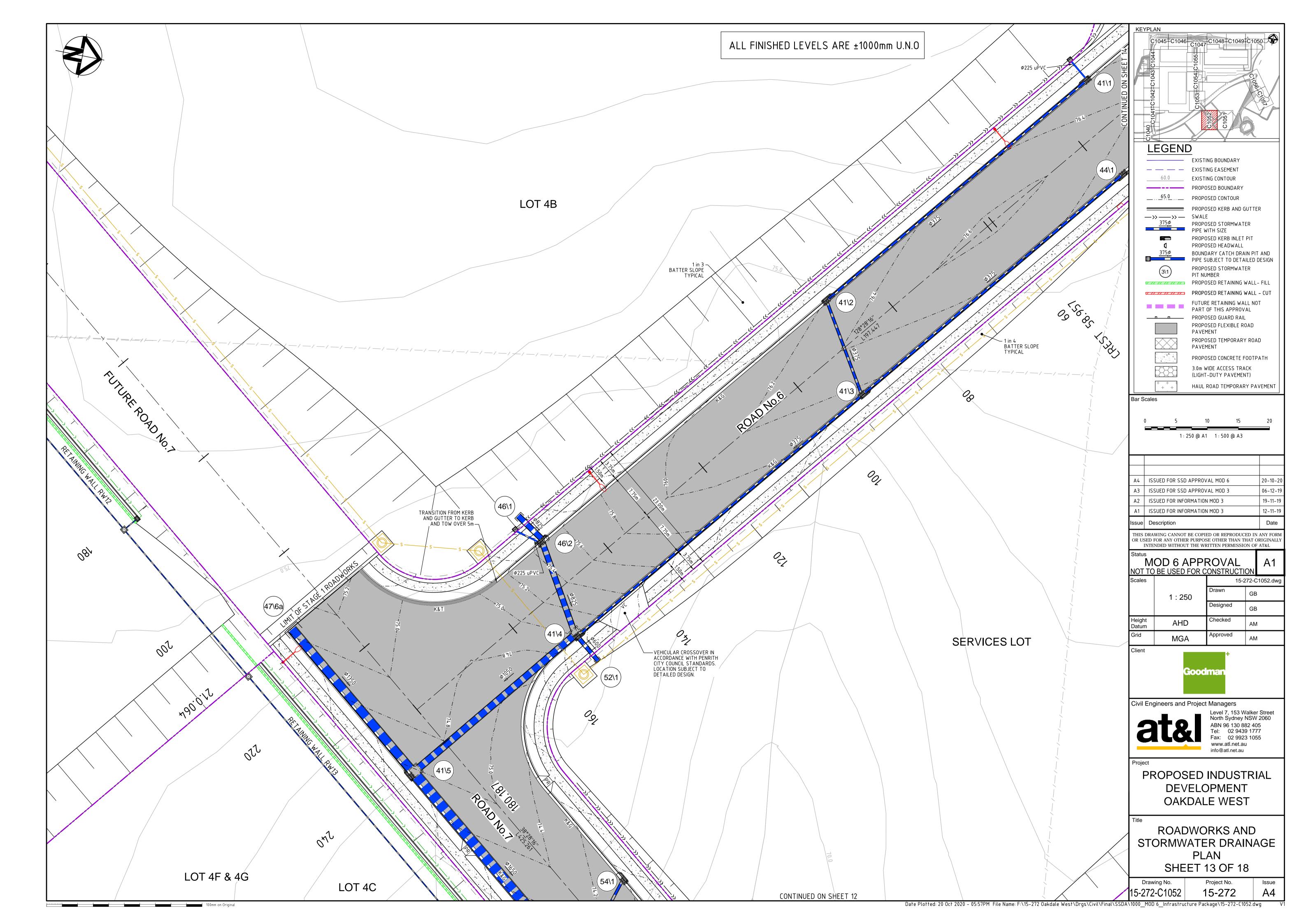


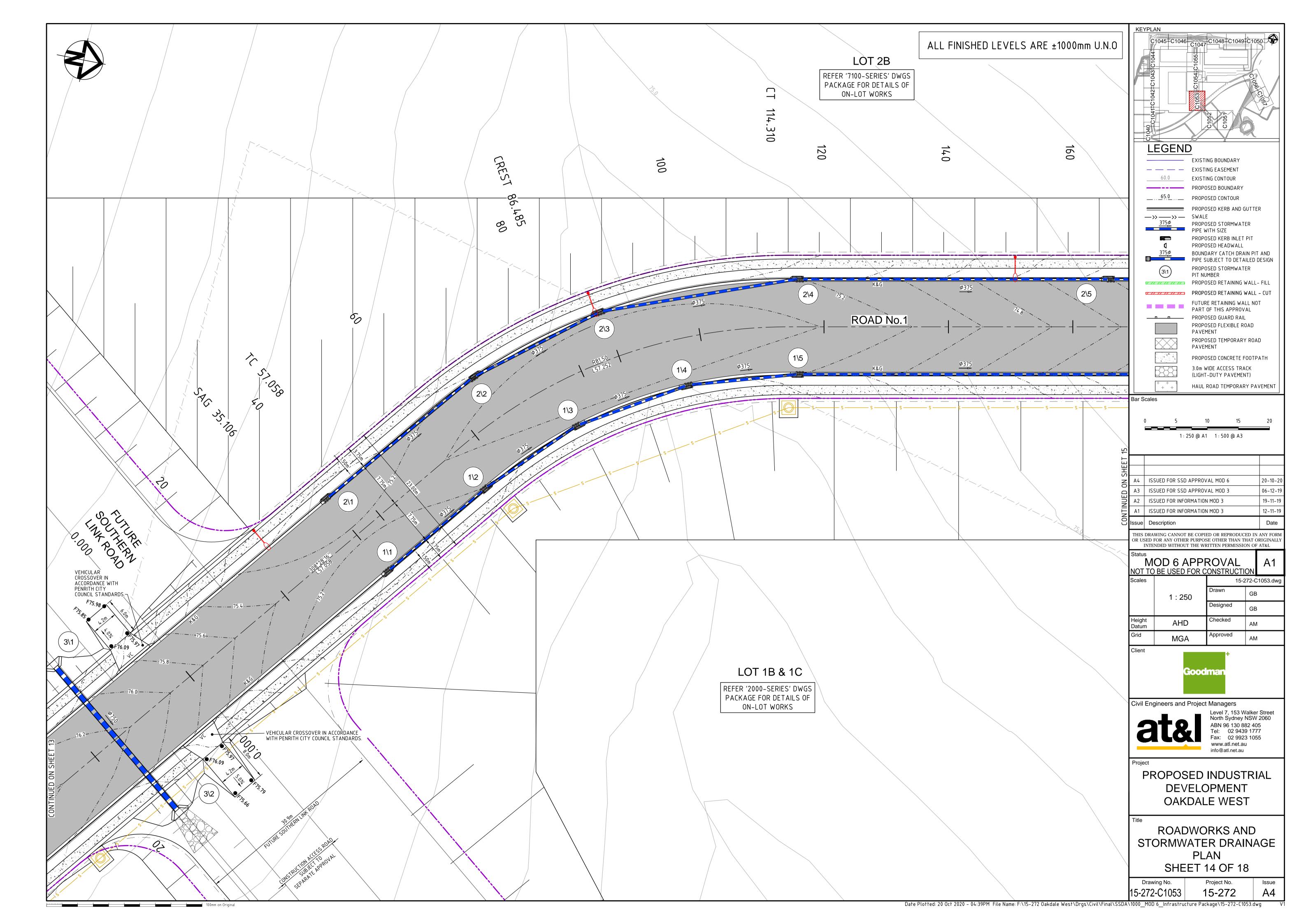


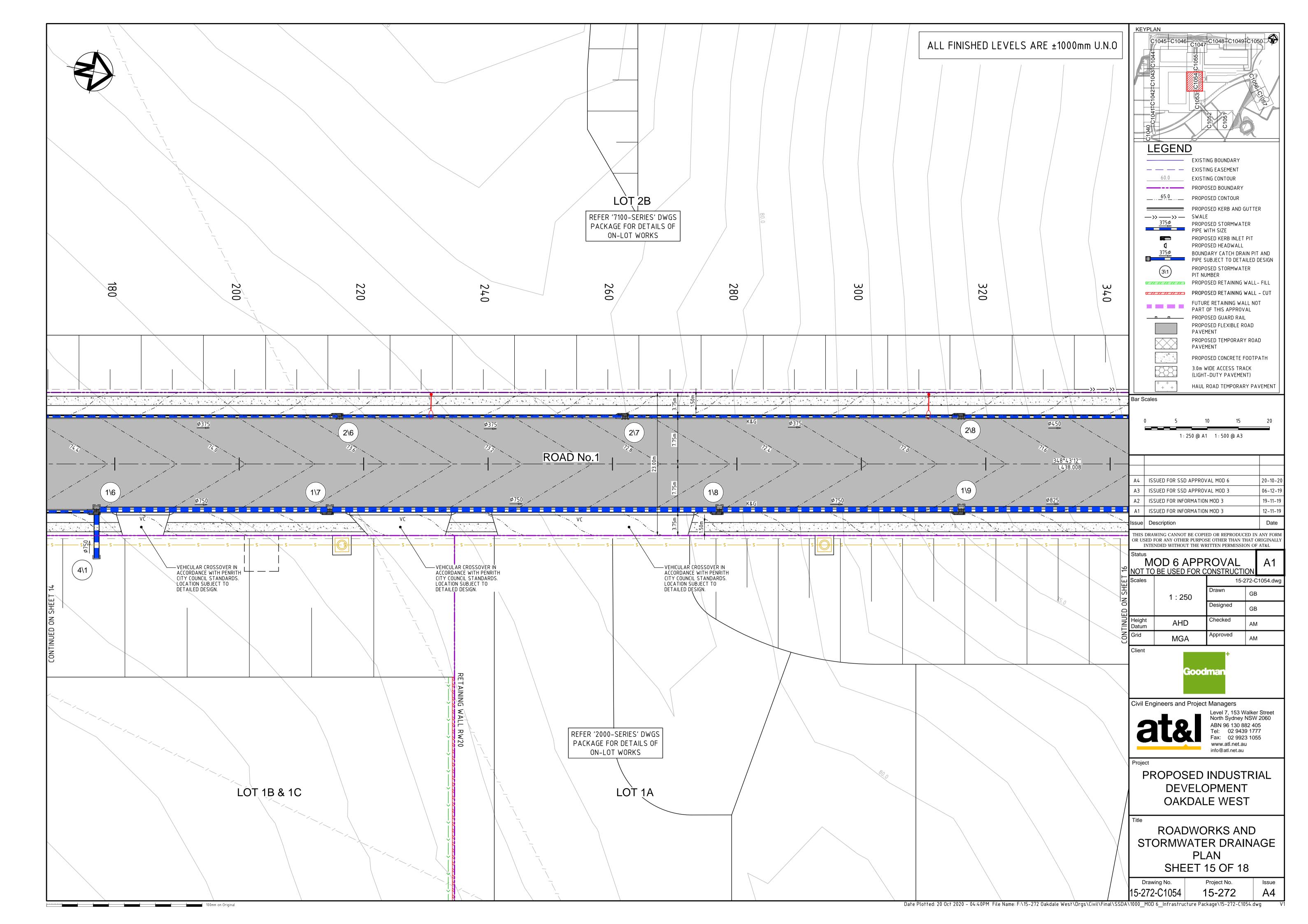


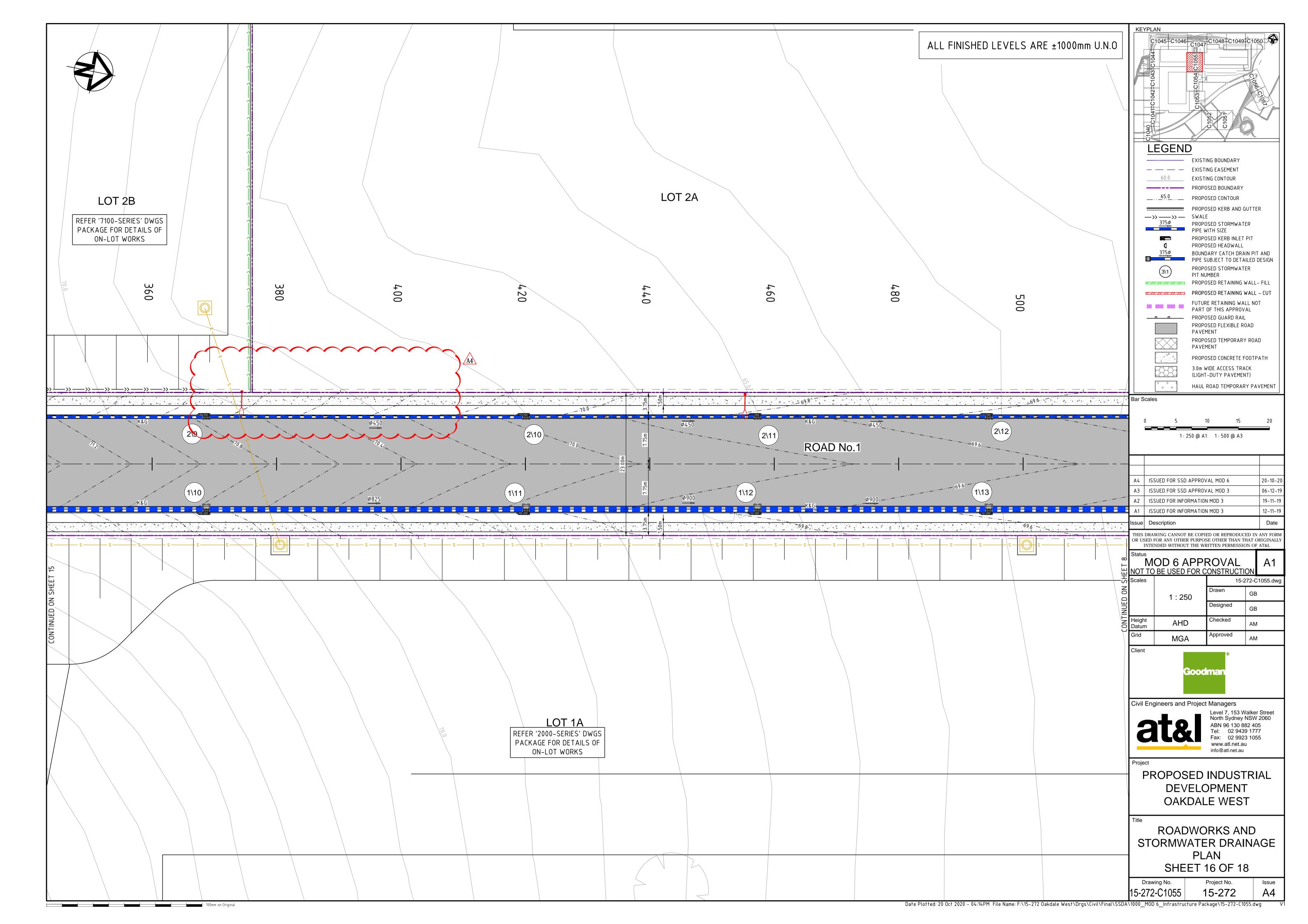


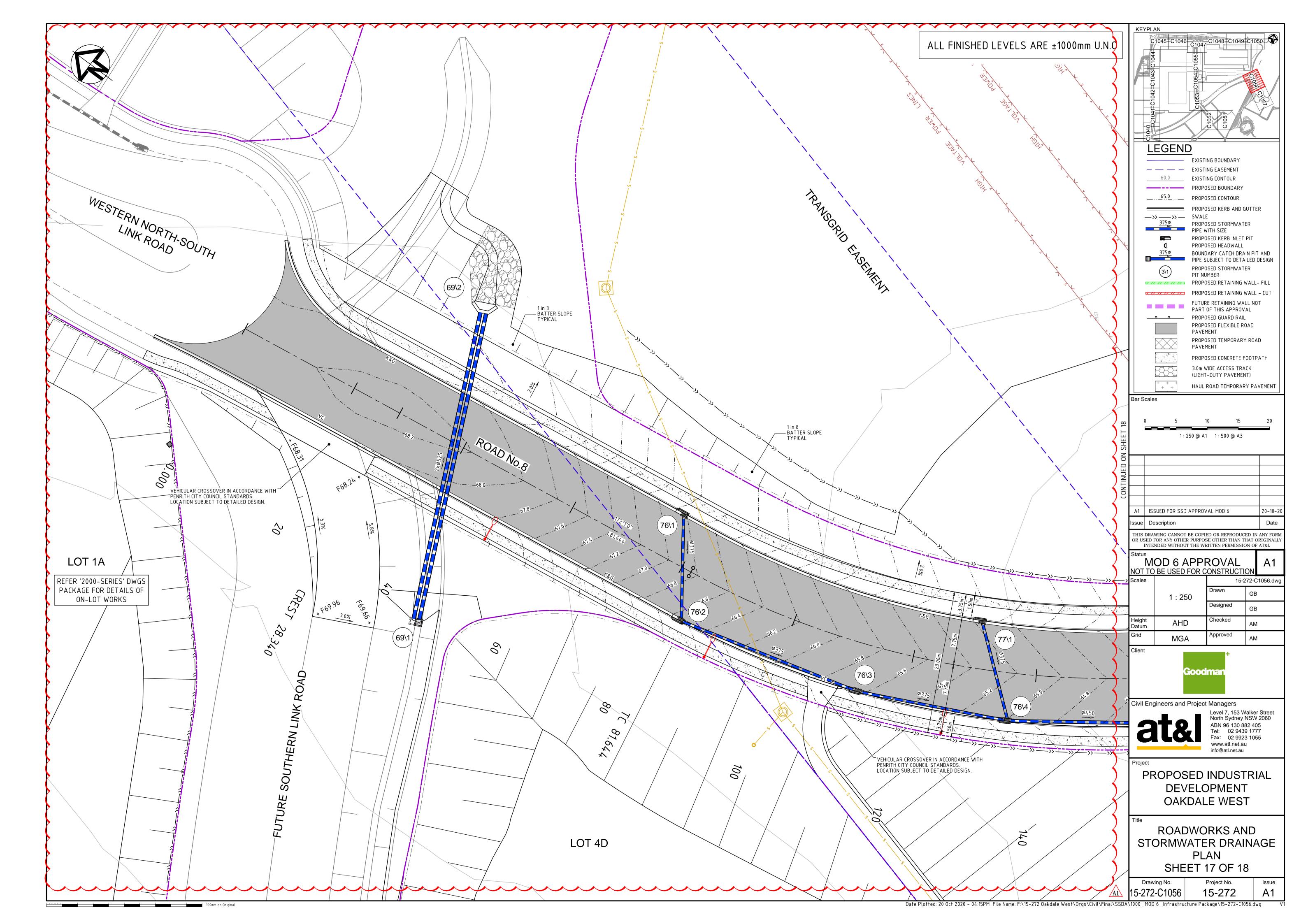


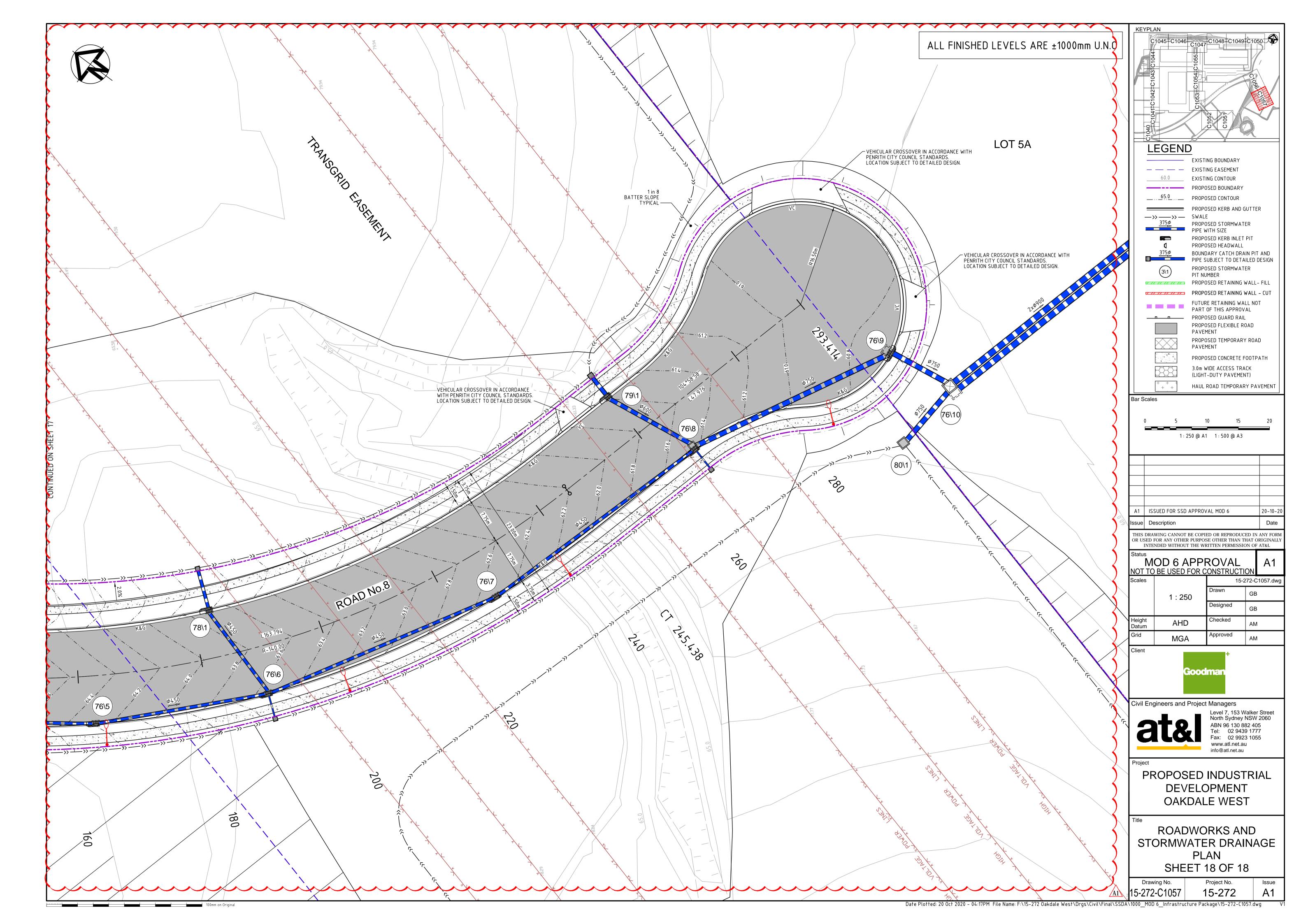


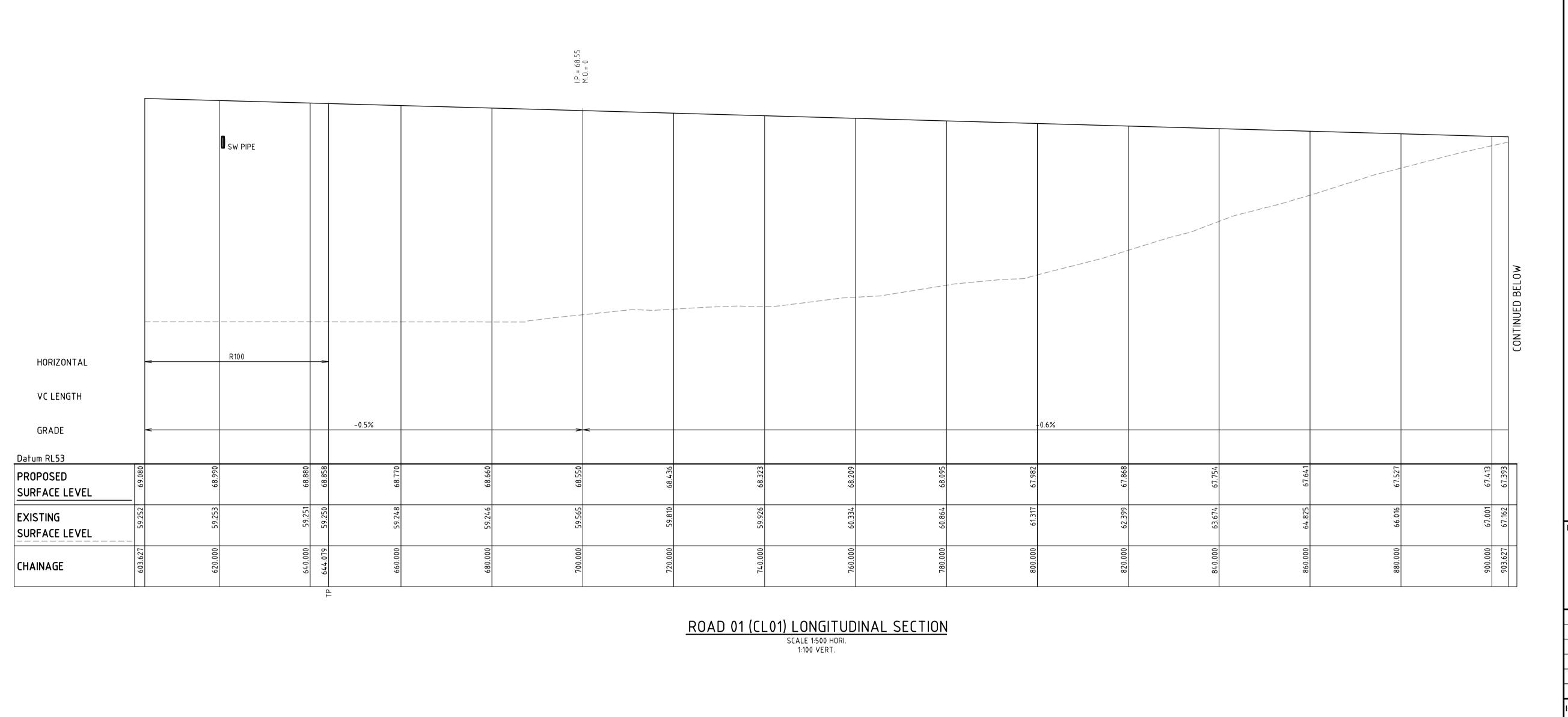


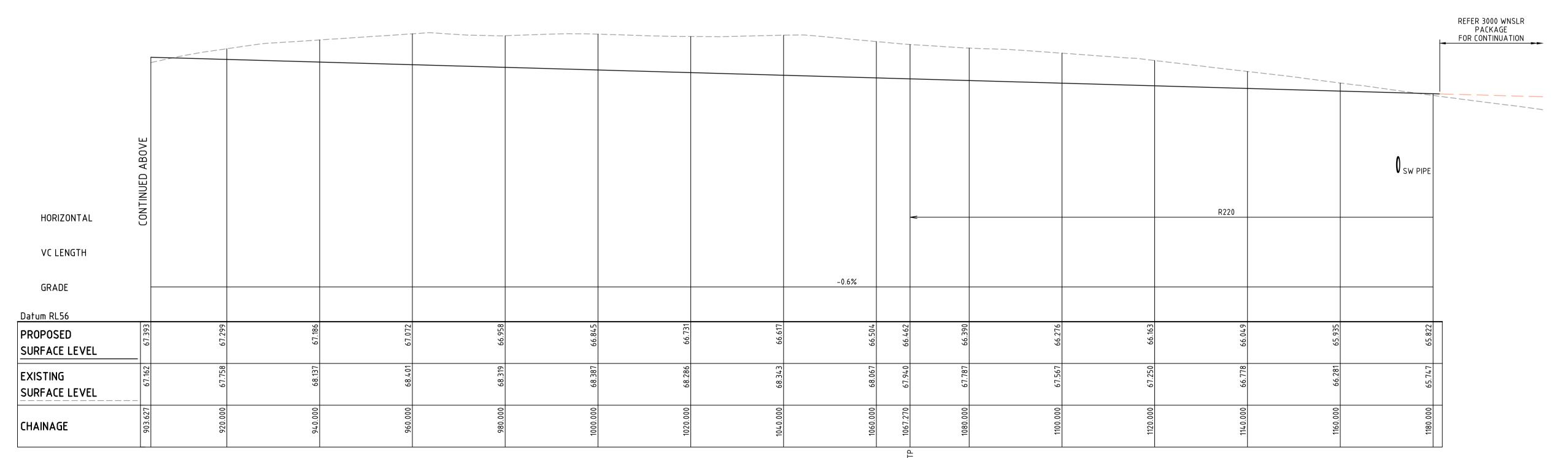












ROAD 01 (CL01) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

100mm on Original

ALL FINISHED LEVELS ARE ±1000mm U.N.O

Bar Sc	ales			
0	2	4	6	8
_	1 : 100	@ A1 1:20	00 @ A3	
0	10	20	30	40
	1 : 500	@ A1 1:10	00 @ A3	
Δ10	ISSUED FOR SSD A	PPROVAL MO	nn 6	20-10-20

A 10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
А6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-1
Issue	Description	Date

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MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION				
Scales		15-2	272-0	21060.dwg
	1 : 100 V 1 : 500 H	Drawn	GE	3
		Designed	GE	3
Height Datum	AHD	Checked	ΑM	1
Grid	MGA	Approved	ΑM	1

Goodman



Project

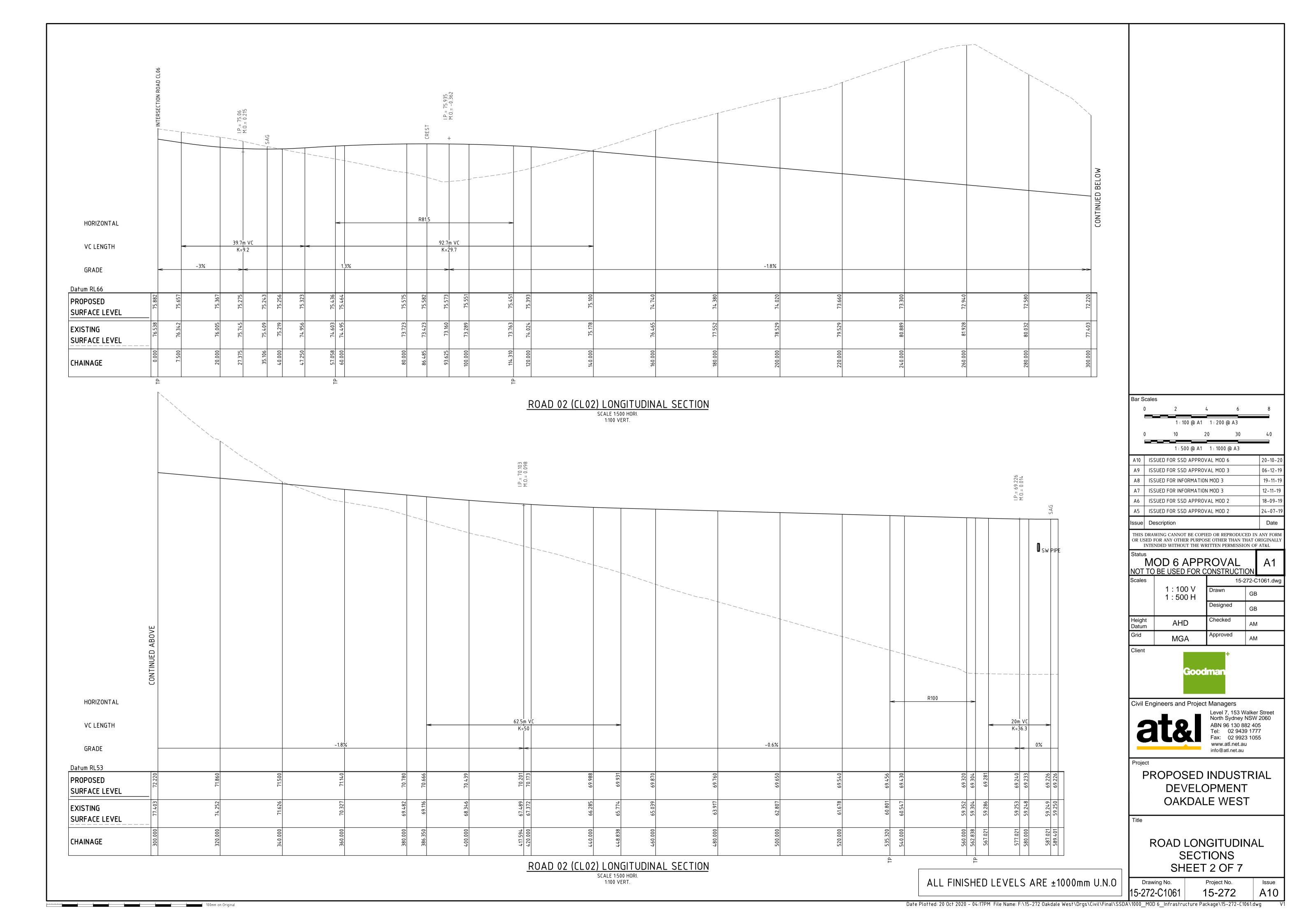
PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE WEST

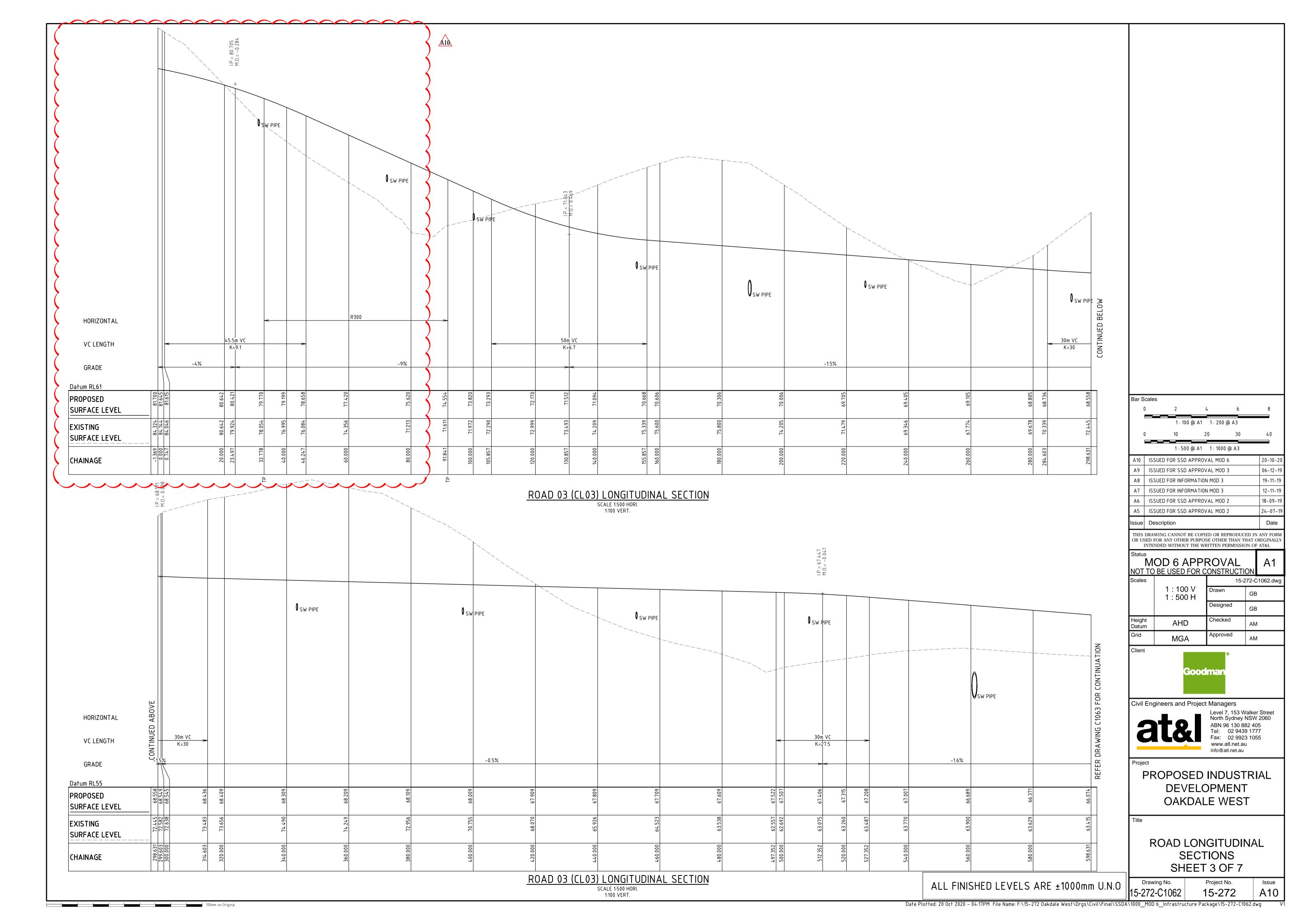
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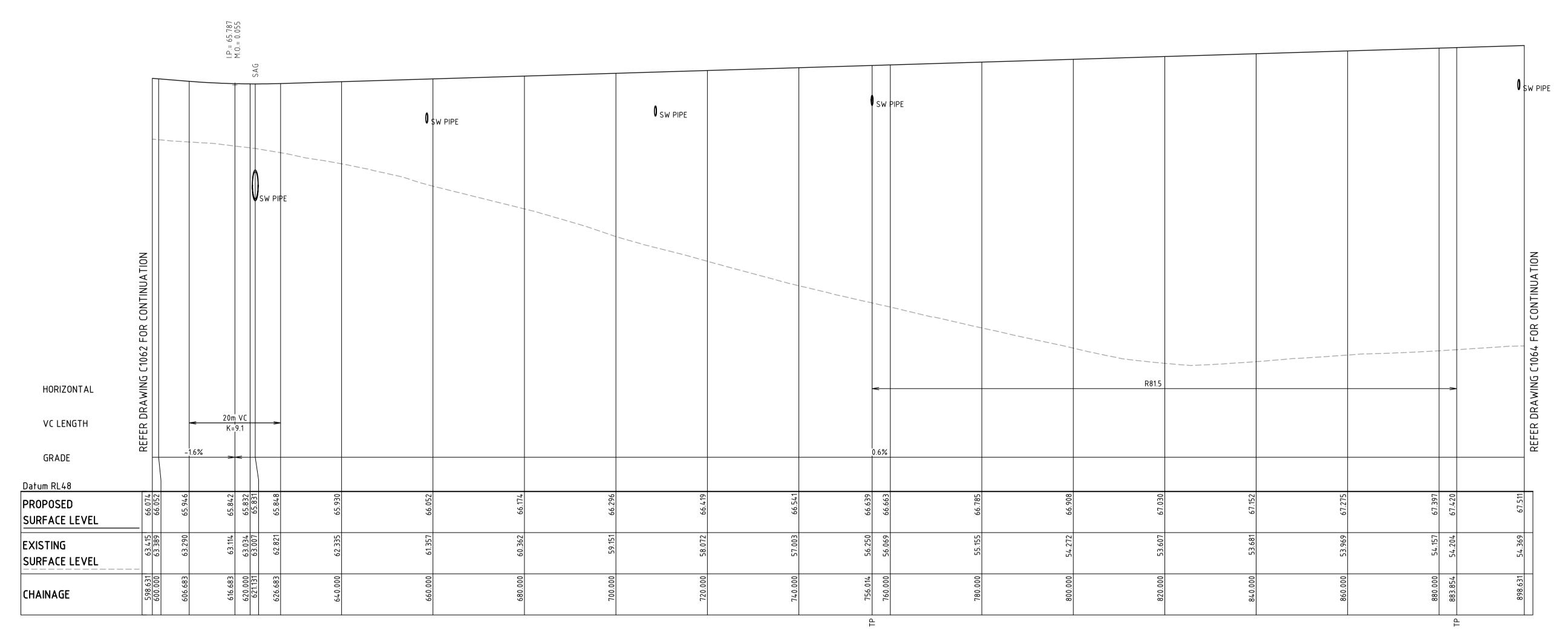
Date Plotted: 20 Oct 2020 - 04:17PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1060.dwg

ROAD LONGITUDINAL SECTIONS SHEET 1 OF 7

Drawing No. Project No. Issue 15-272-C1060 15-272 A10

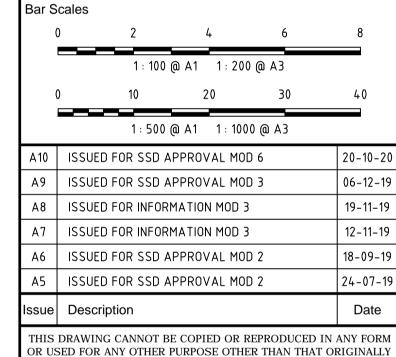






ROAD 03 (CL03) LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

100mm on Original



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

MOD 6 APPROVAL A NOT TO BE USED FOR CONSTRUCTION				
Scales		15-2	72-C1063.dw	
	1 : 100 V 1 : 500 H	Drawn	GB	
		Designed	GB	
Height Datum	AHD	Checked	АМ	
Grid	MGA	Approved	AM	



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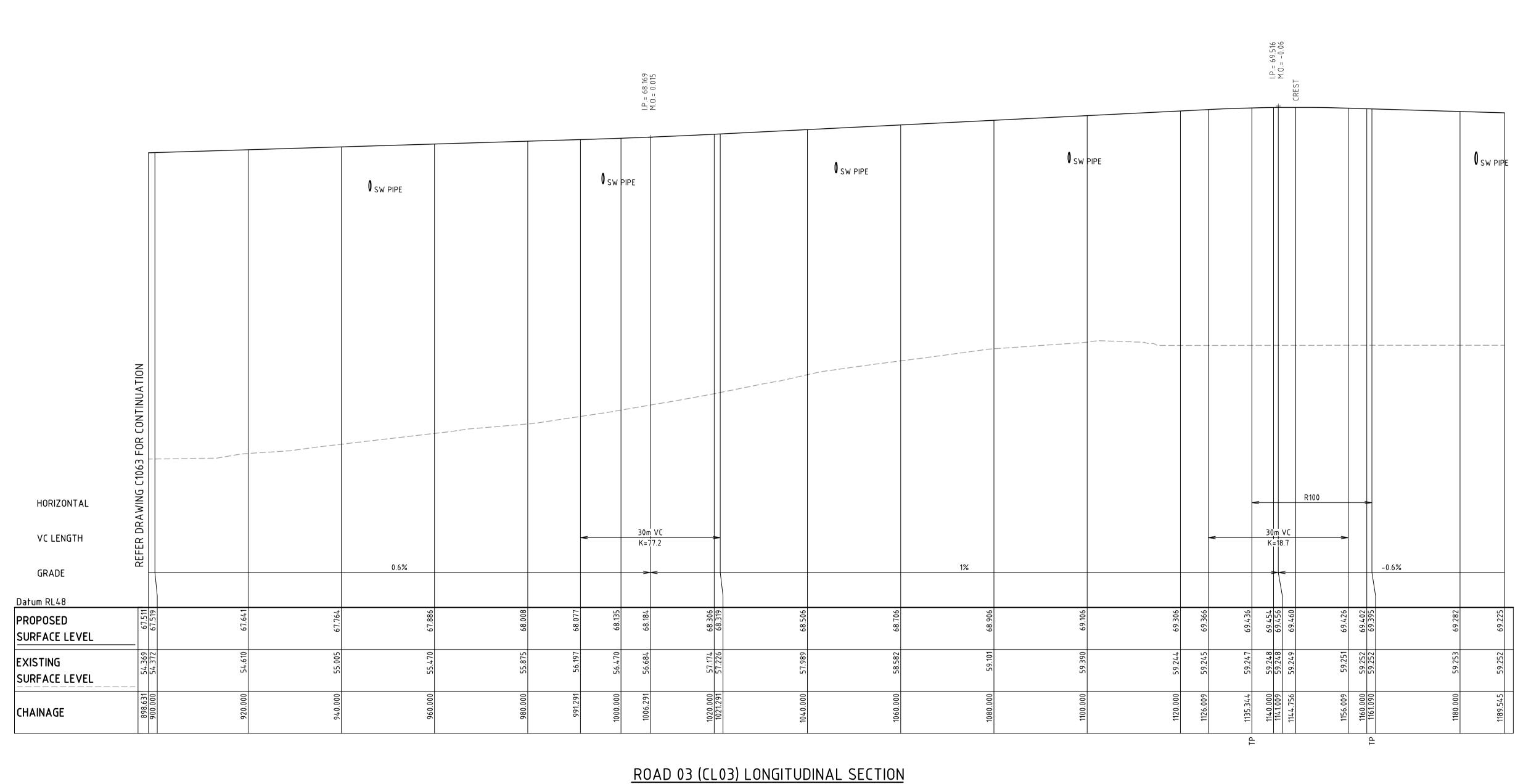
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Date Plotted: 20 Oct 2020 - 04:17PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1063.dwg

ROAD LONGITUDINAL SECTIONS SHEET 4 OF 7

Drawing No. Project No. 15-272-C1063 15-272 A10

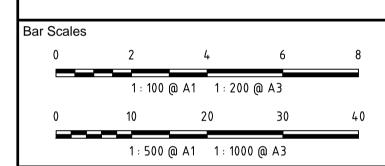
ALL FINISHED LEVELS ARE ±1000mm U.N.O



ROAD 03 (CL03) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

ALL FINISHED LEVELS ARE ±1000mm U.N.O



Issue	Description	Date
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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MOD 6 APPROVAL A1 NOT TO BE USED FOR CONSTRUCTION							
Scales		15-2	72-C1064.dw(
	1 : 100 V 1 : 500 H	Drawn	GB				
		Designed	GB				
Height Datum	AHD	Checked	АМ				
Grid	MGA	Approved	АМ				

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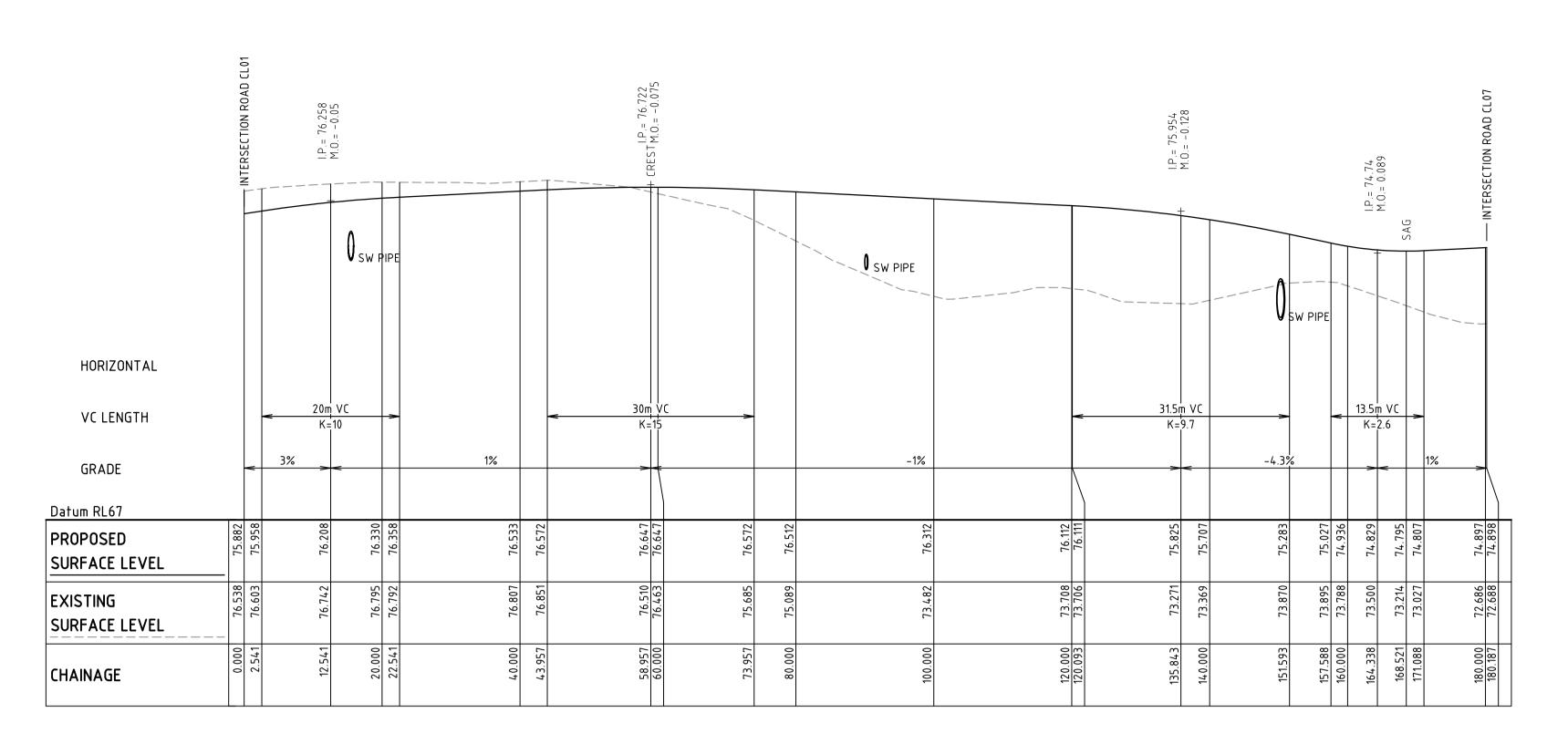
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

ROAD LONGITUDINAL SECTIONS SHEET 5 OF 7

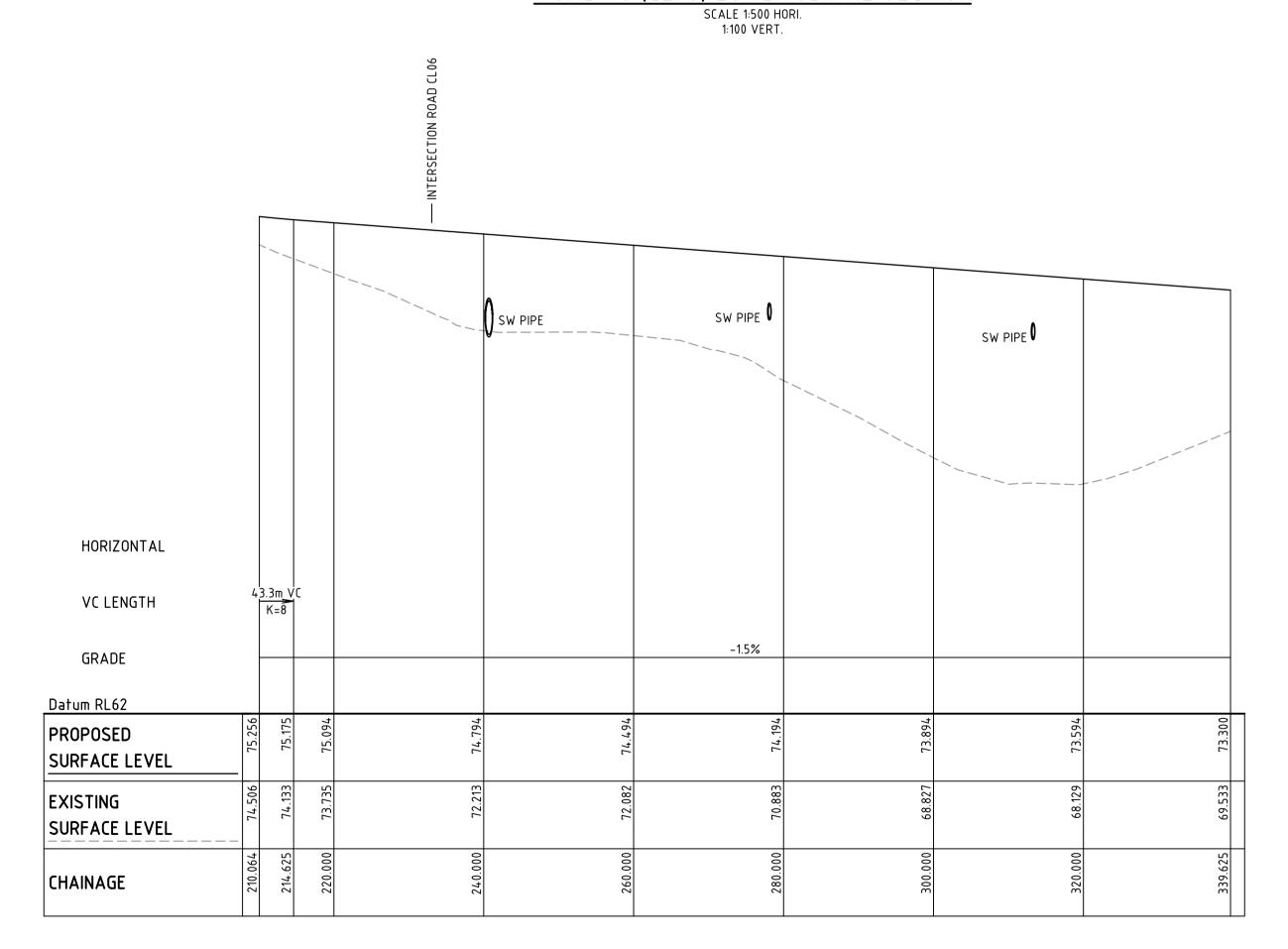
Drawing No. Project No. A10

15-272-C1064 15-272

Date Plotted: 20 Oct 2020 - 04:17PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1064.dwg



ROAD 06 (CL06) LONGITUDINAL SECTION SCALE 1:500 HORL



ROAD (CL07) LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

100mm on Original

ALL FINISHED LEVELS ARE ±1000mm U.N.O

Bar S	Scales				
	0	2	4	6	8
		1 : 100	@ A1 1:20	0 @ A3	
	0	10	20	30	40
		1 : 500	@ A1 1:10	00 @ A3	
A 4	ISSUE	D FOR SSD A	PPROVAL MO	D 6	20-10-
٧3	ICCLIE	n END SSN A	DDDOVAL MO	ın 3	06 12

Α4	ISSUED FOR SSD APPROVAL MOD 6	20-10-20
А3	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
Α2	ISSUED FOR INFORMATION MOD 3	19-11-19
A1	ISSUED FOR INFORMATION MOD 3	12-11-19
Issue	Description	Date
THIS	DRAWING CANNOT BE COPIED OR REPRODUCED IN	ANY FORM

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MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION					
Scales		15-2	72-C1065.dv		
	1 : 100 V 1 : 500 H	Drawn	GB		
		Designed	GB		
Height Datum	AHD	Checked	AM		
Grid	MGA	Approved	AM		

Client



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Project

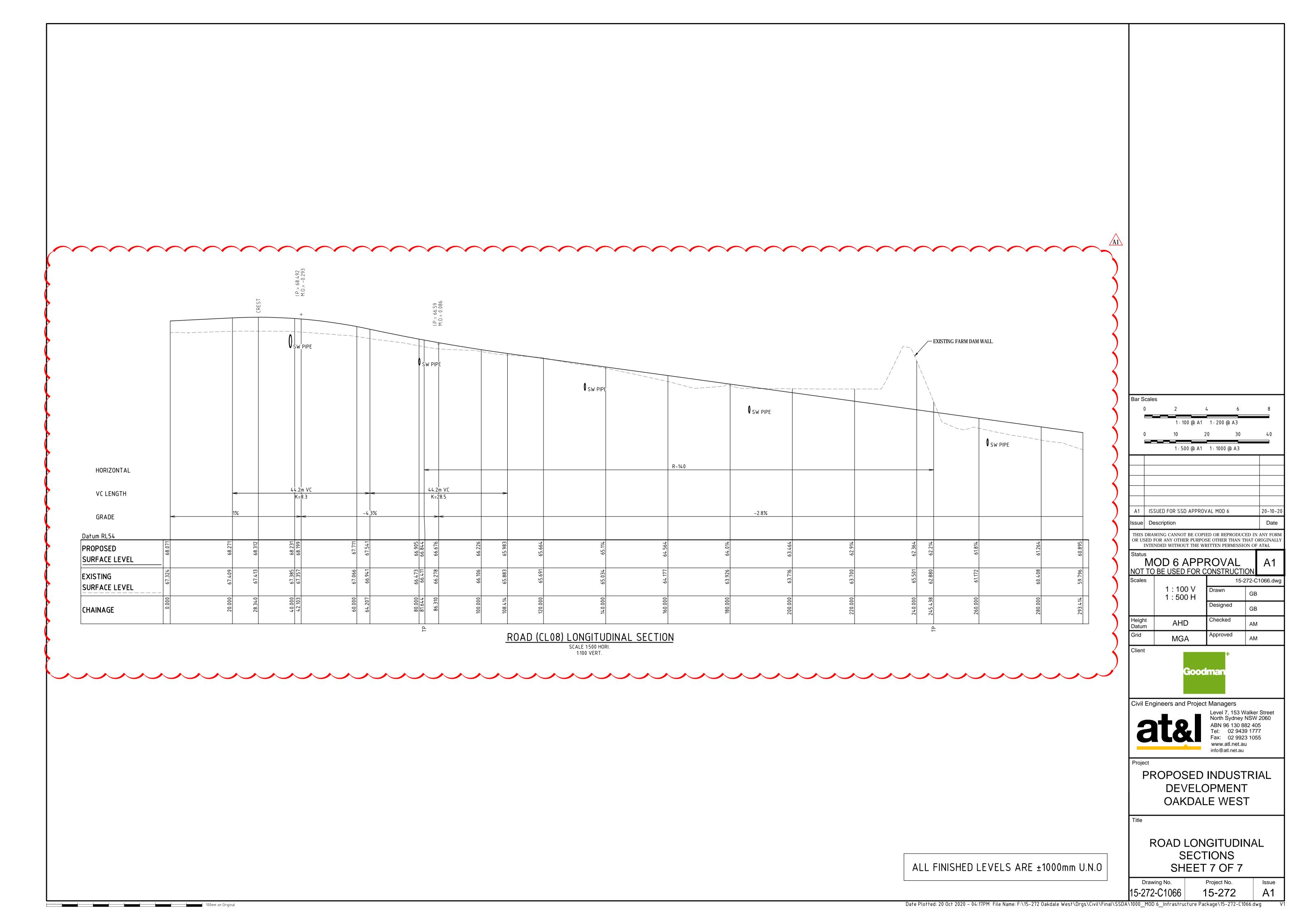
PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE WEST

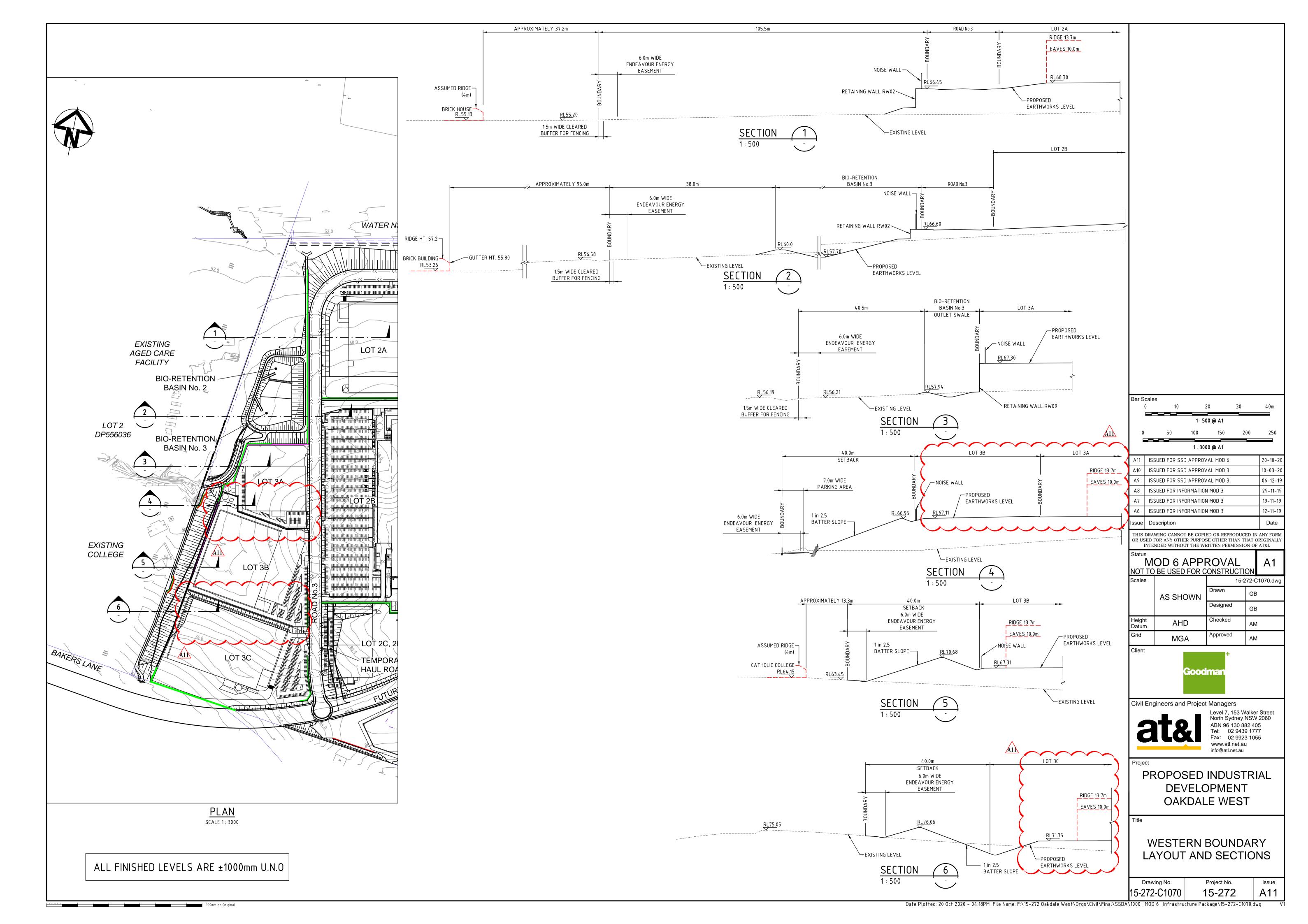
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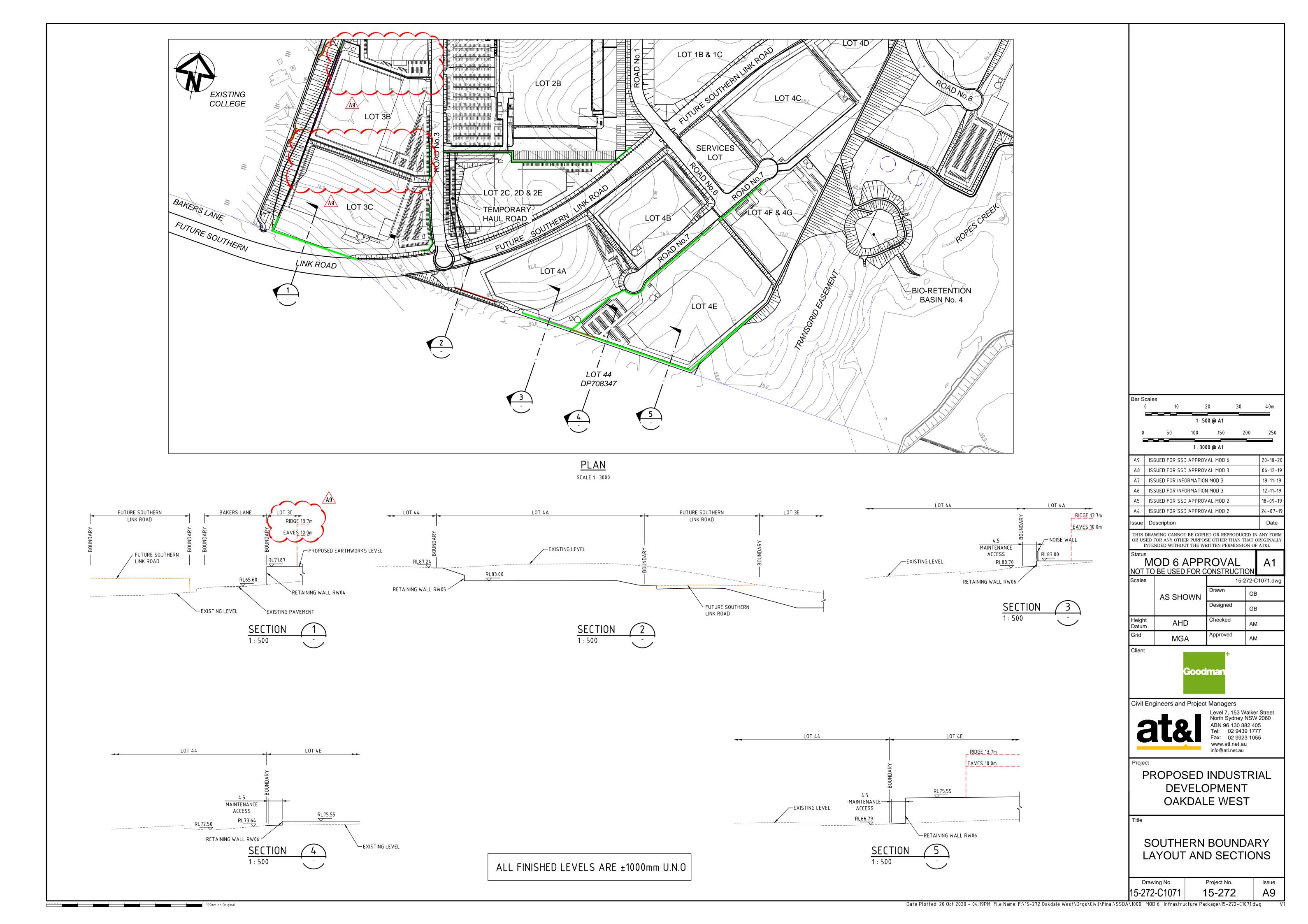
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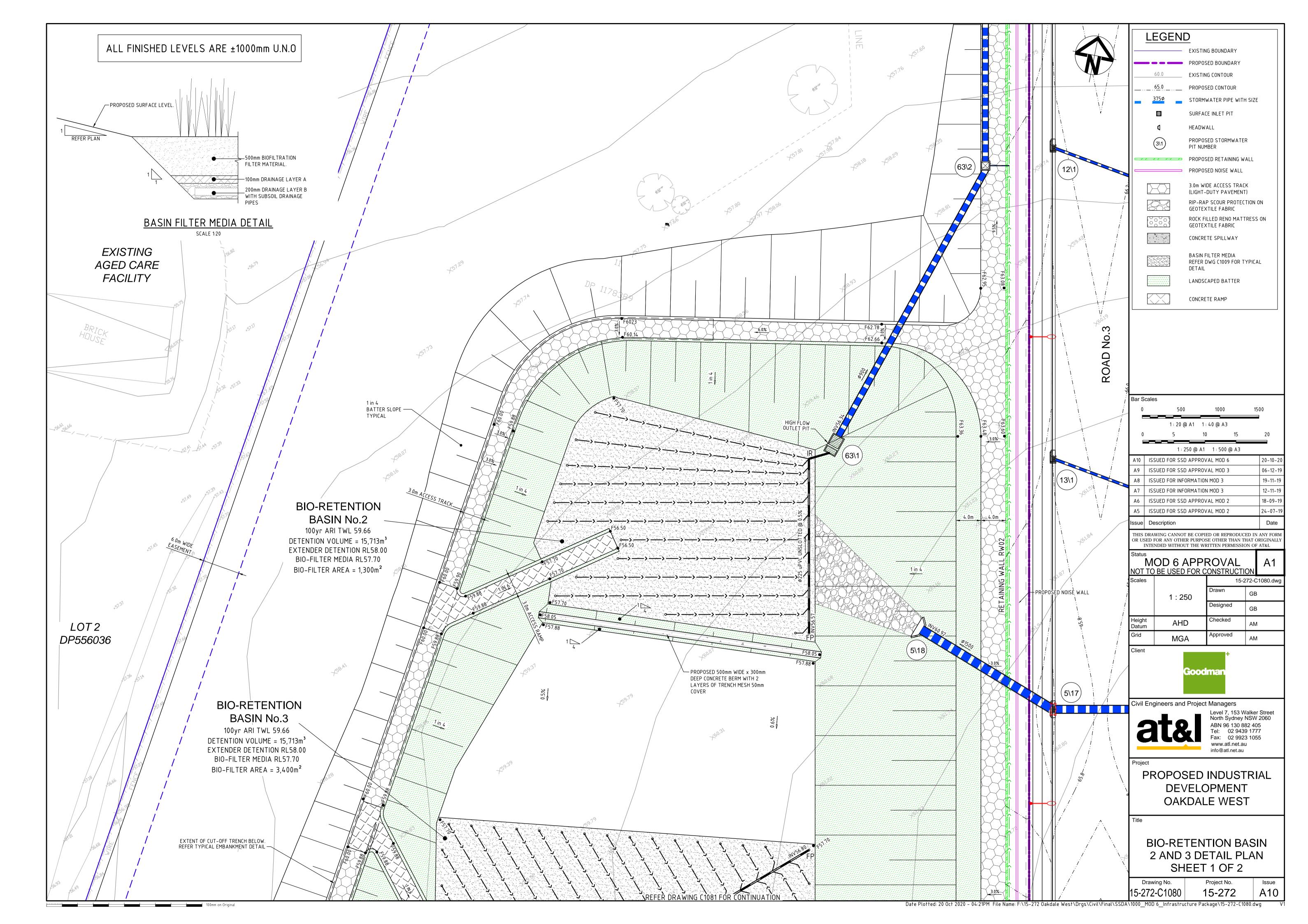
ROAD LONGITUDINAL SECTIONS SHEET 6 OF 7

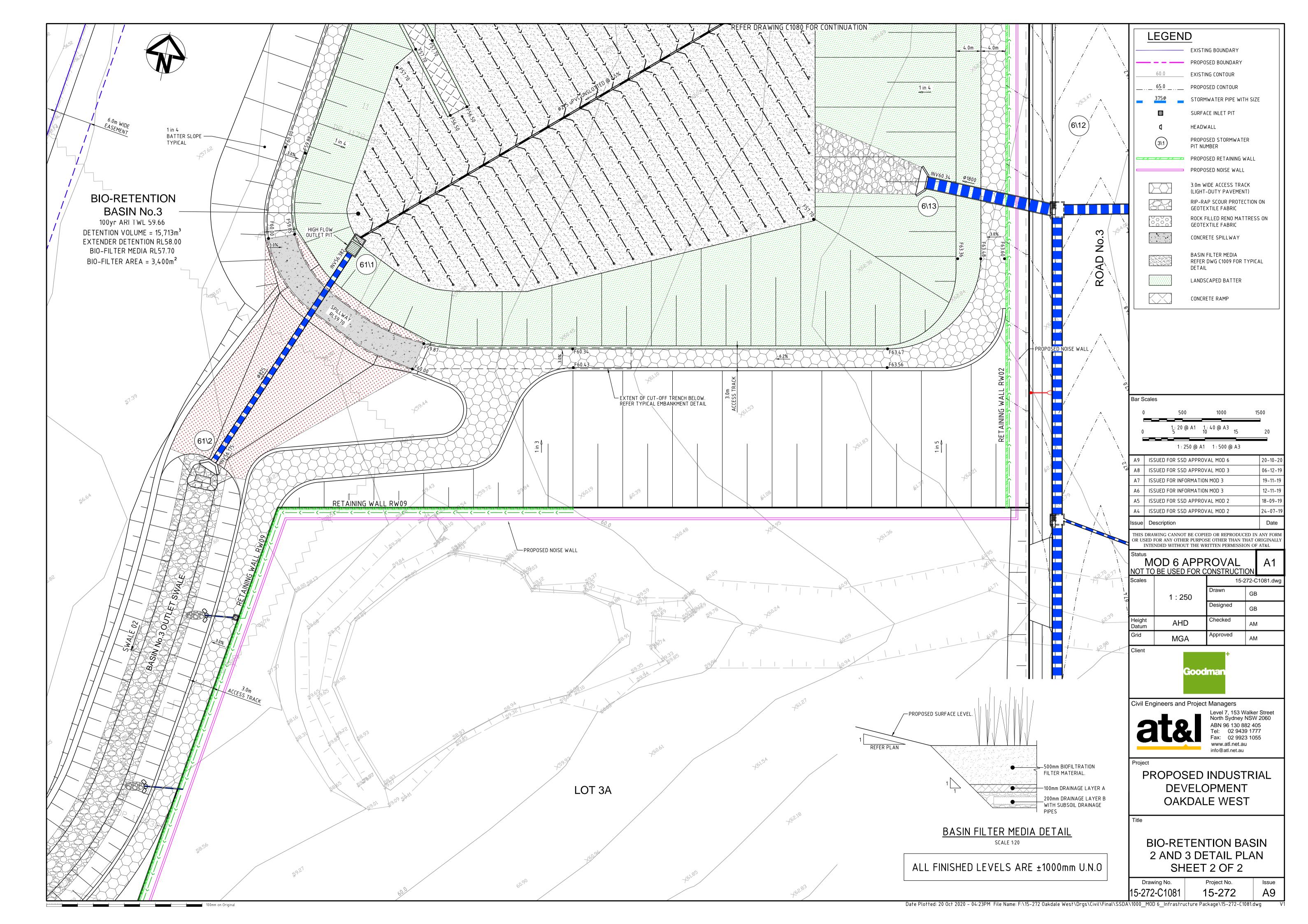
Drawing No. Project No. Issue 15-272-C1065 15-272 A4

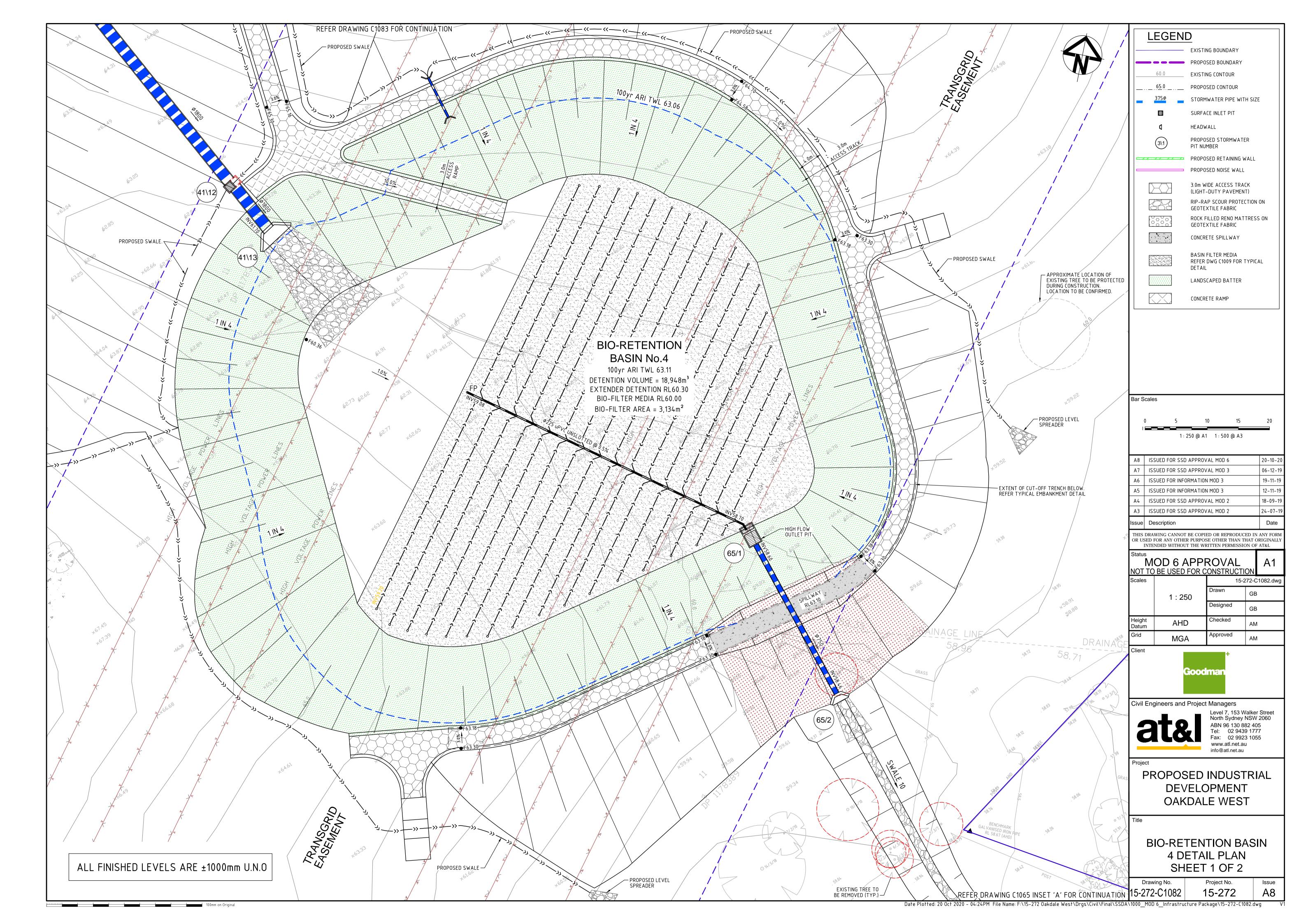


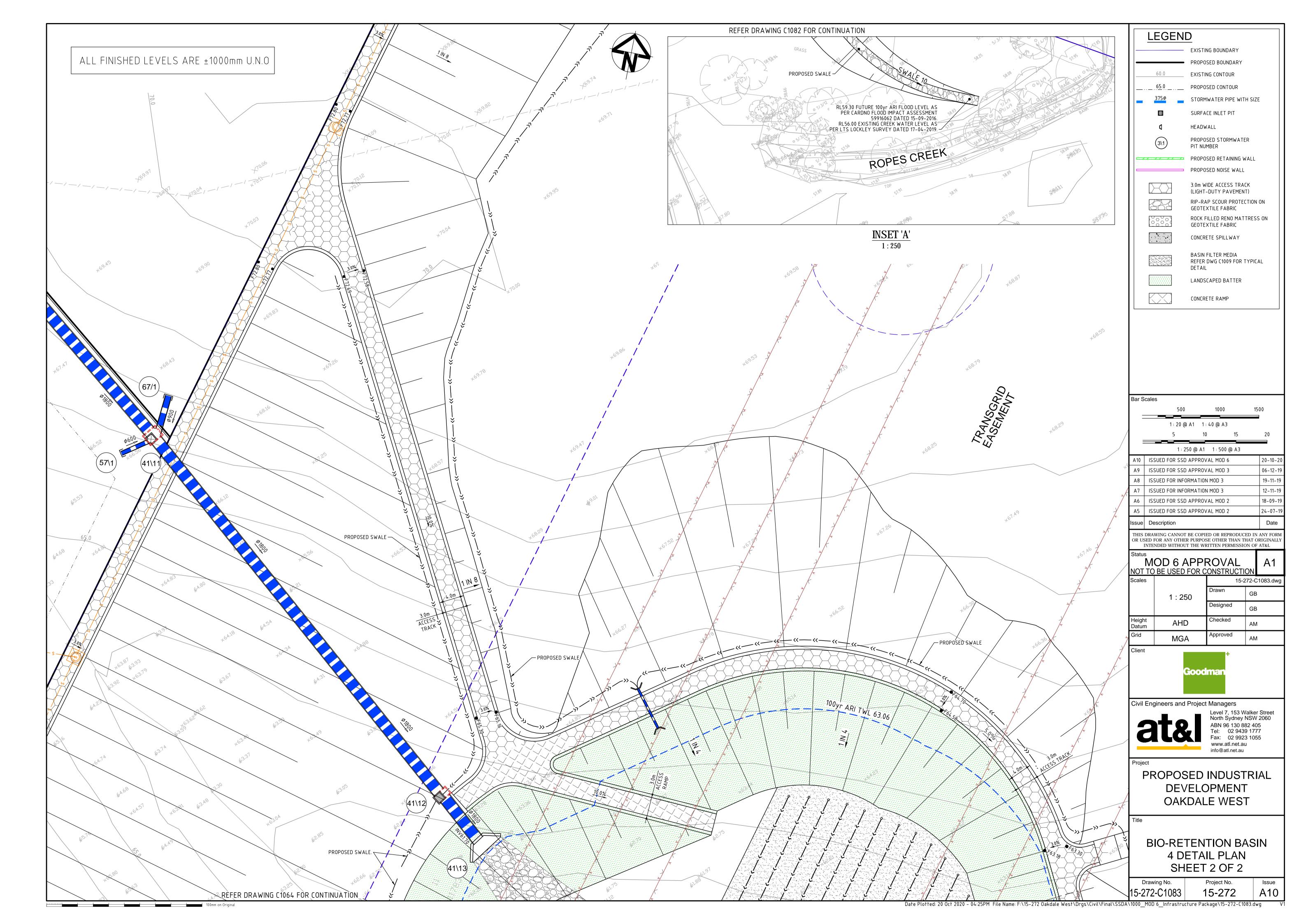


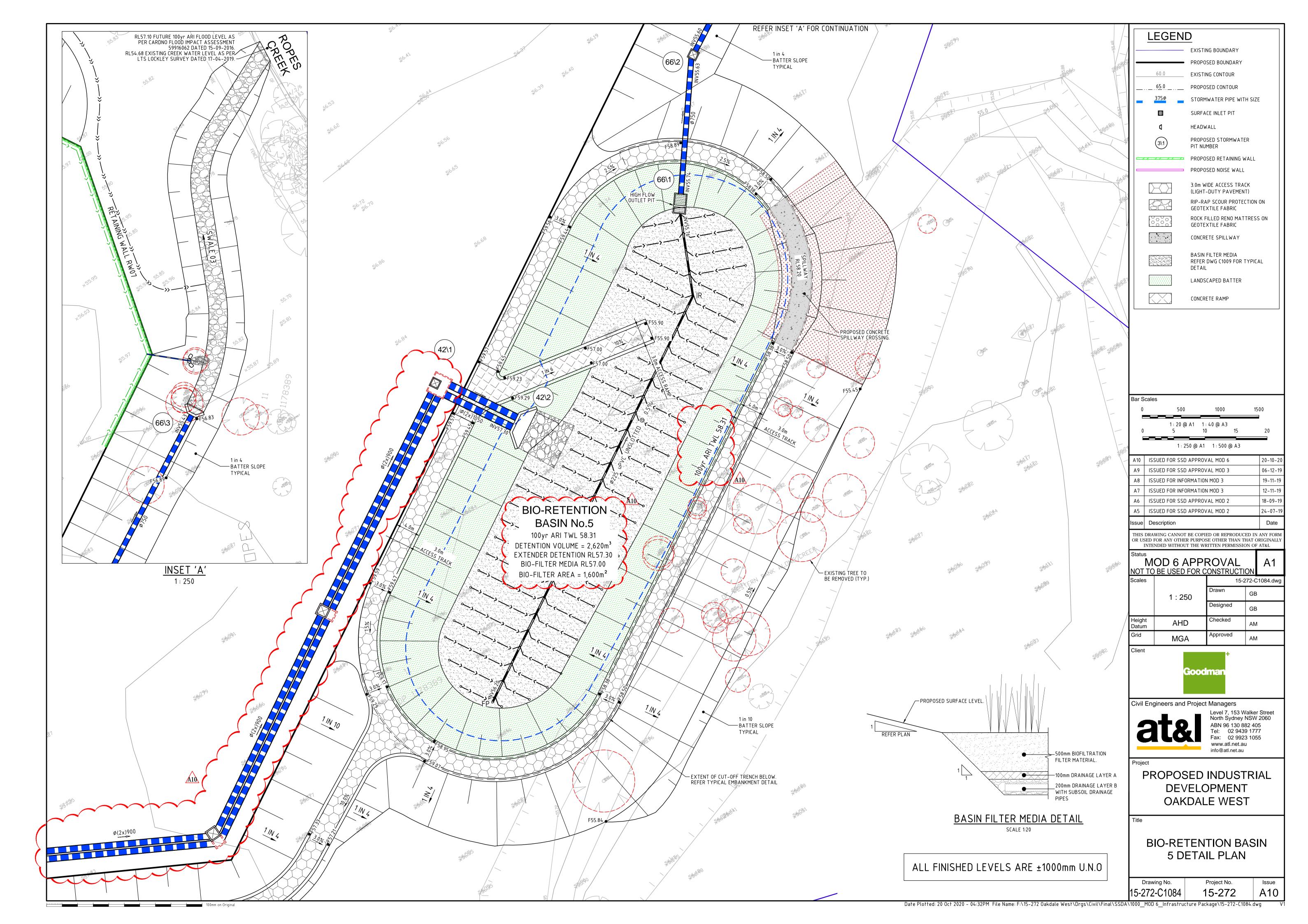


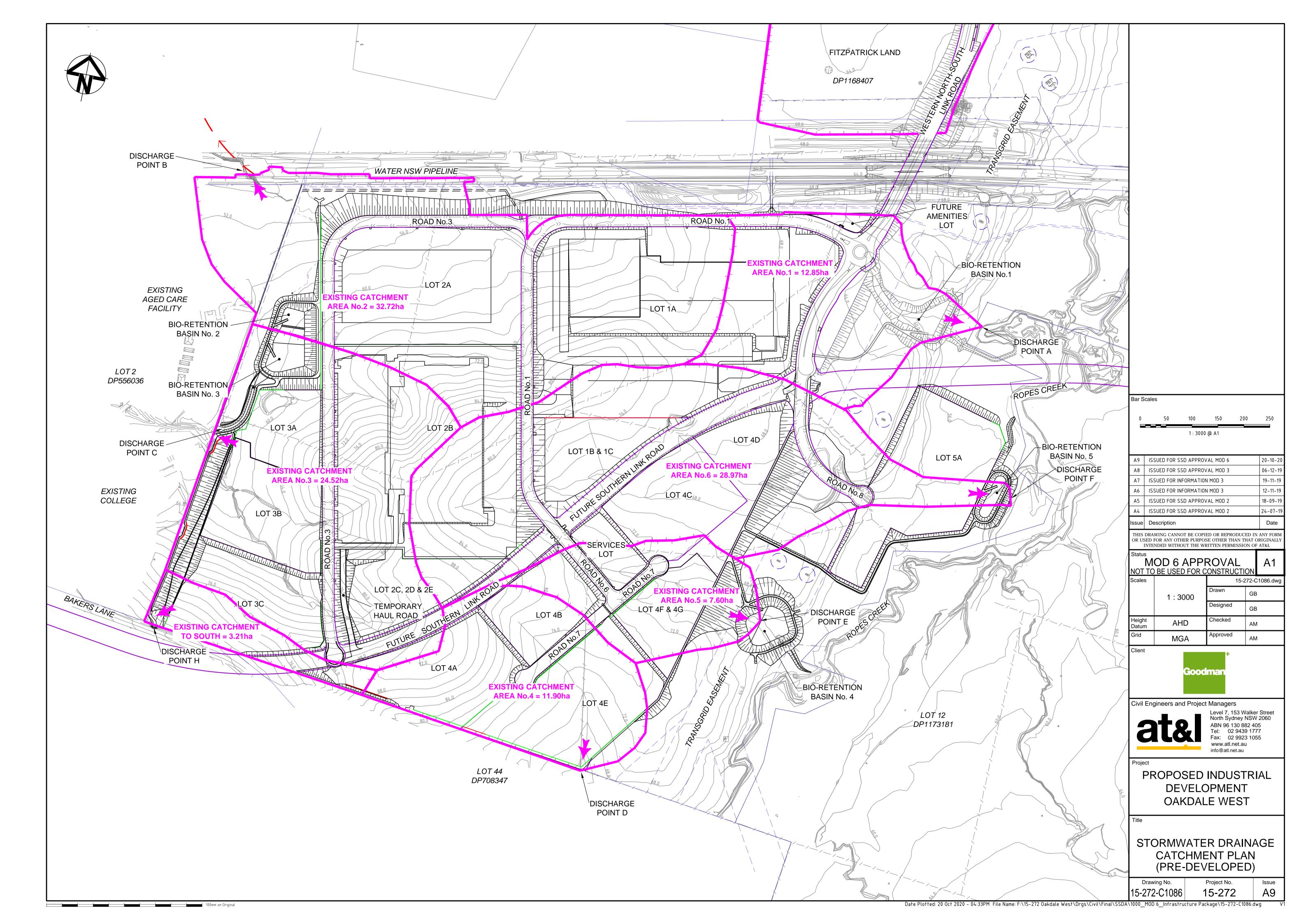


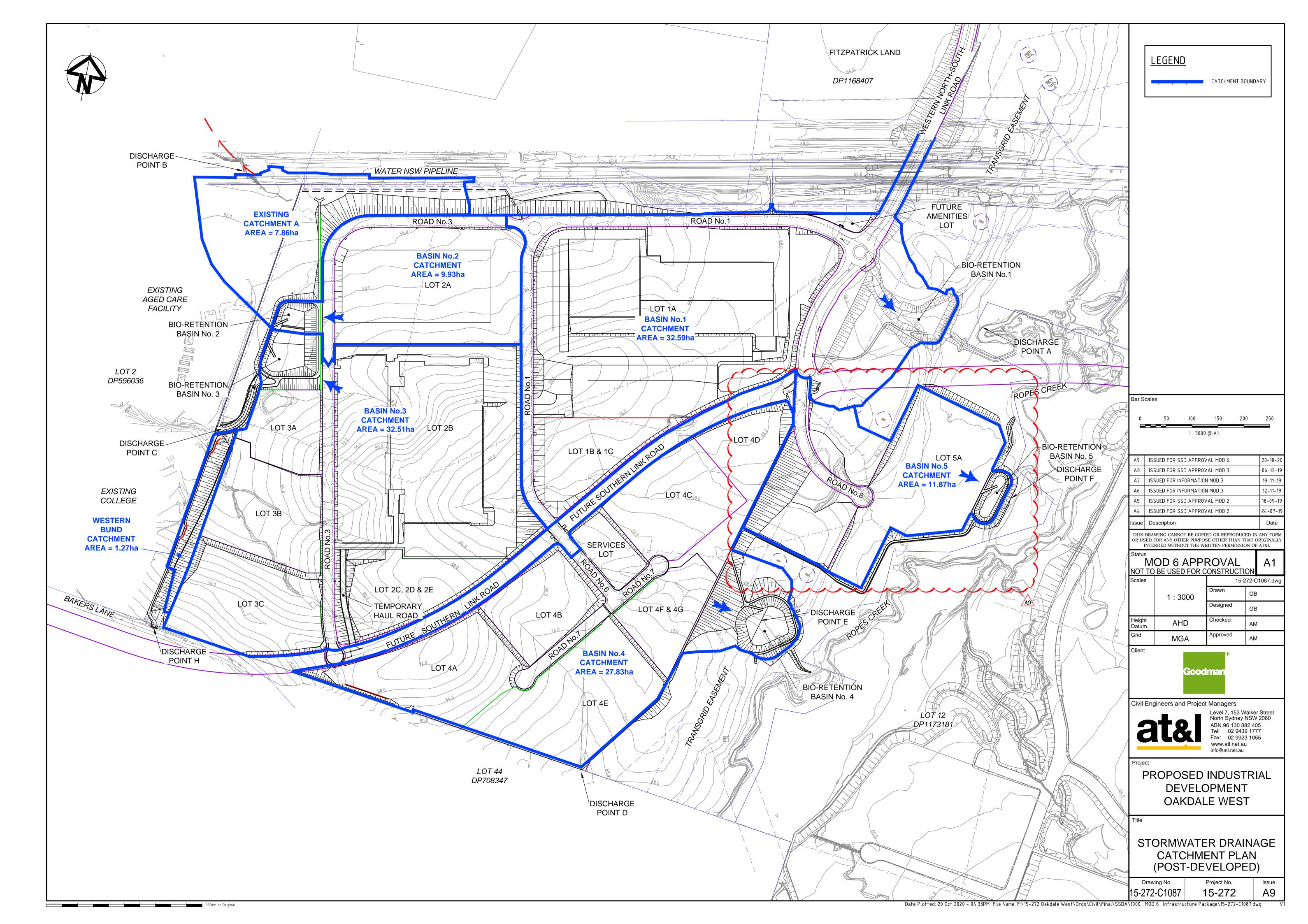


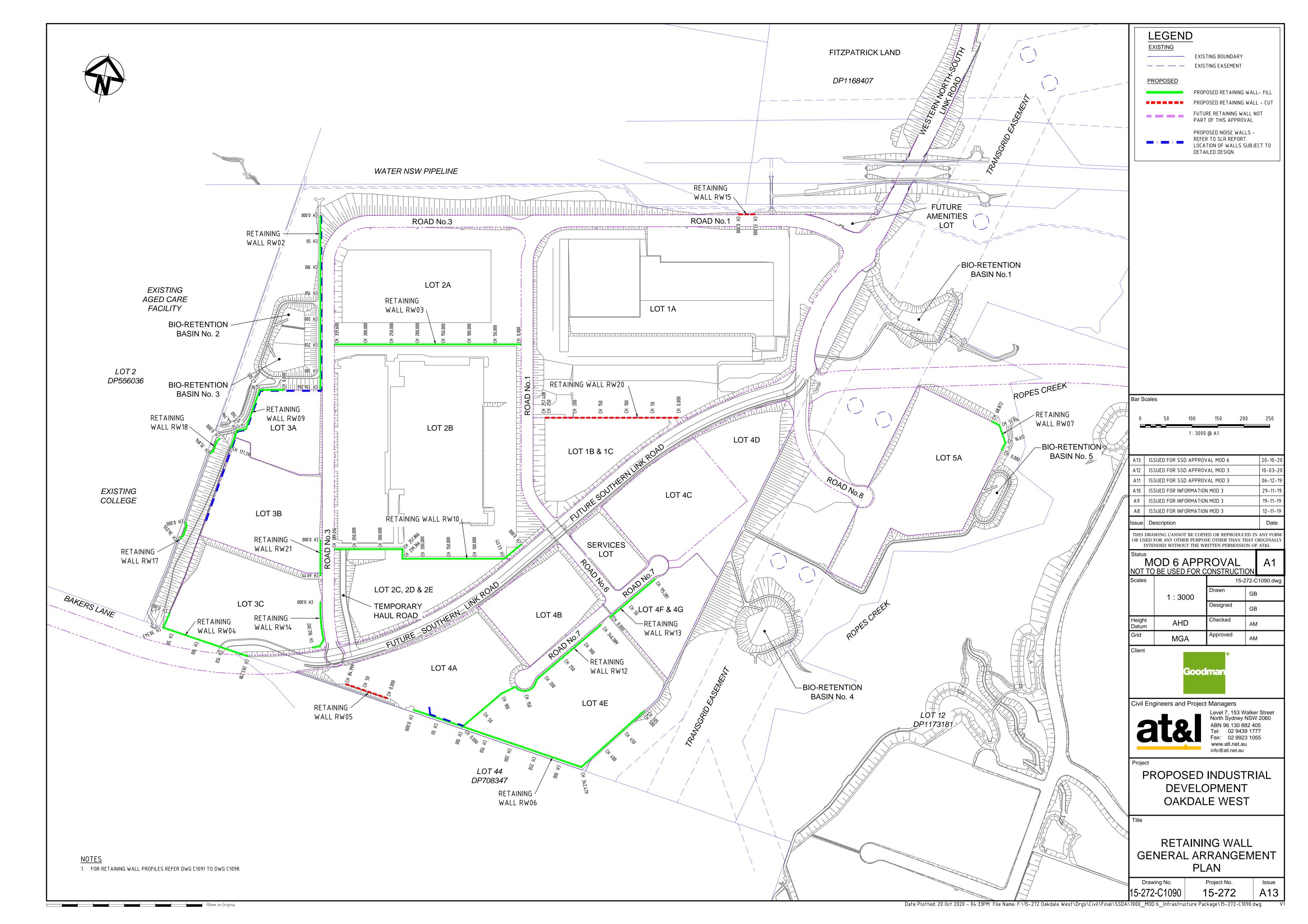


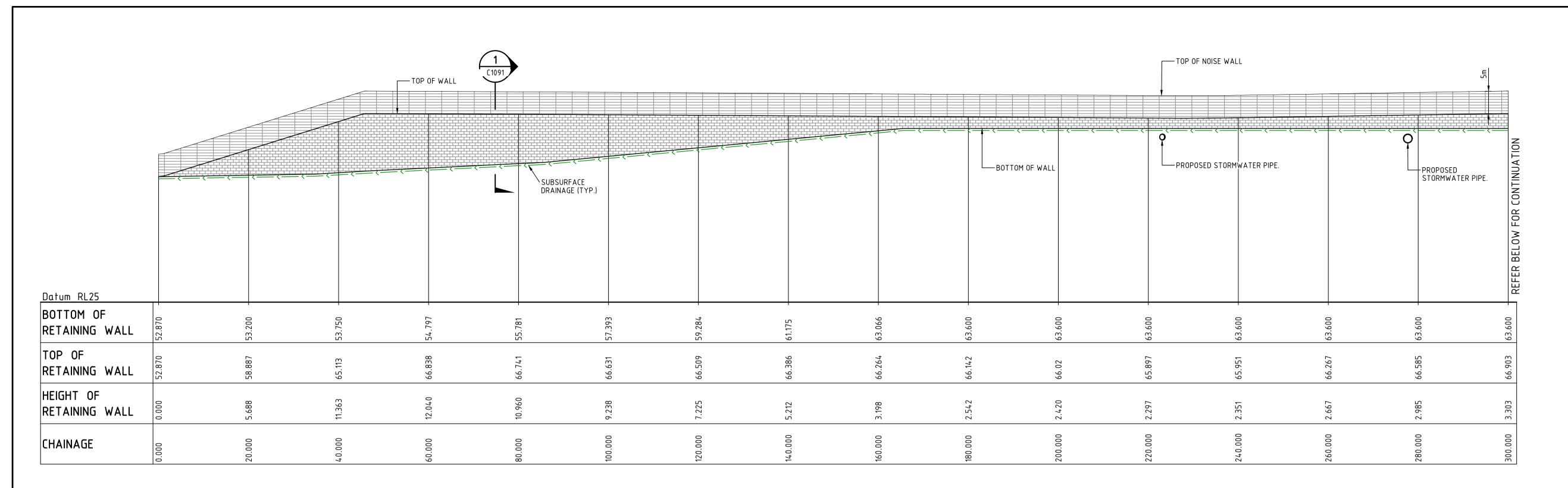




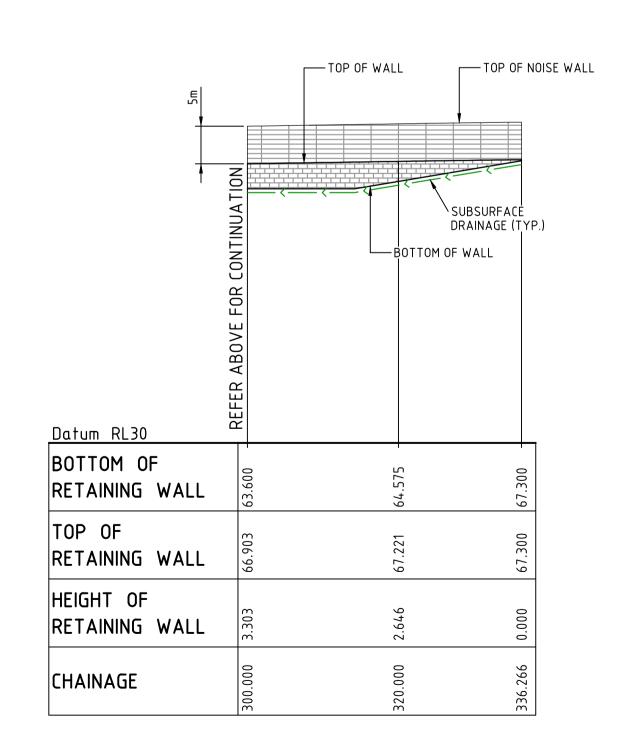






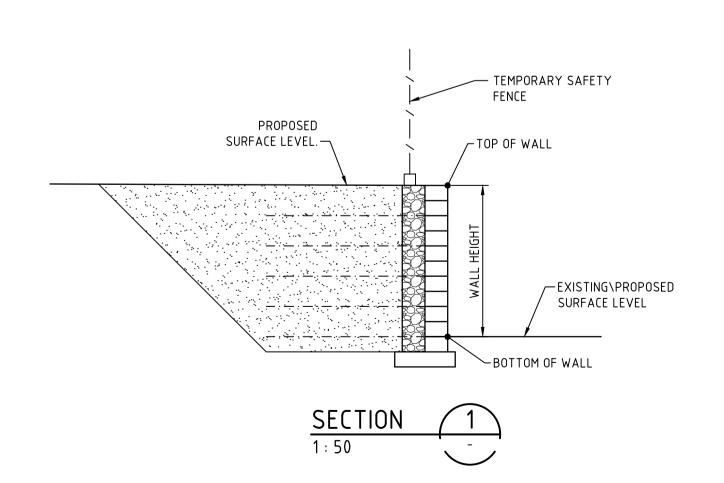


RETAINING WALL RW02 PROFILE SCALE 1:500 HORI. 1:500 VERT.





100mm on Original



ALL FINISHED LEVELS ARE ±1000mm U.N.O

Bar Scales 0	1	2	3	4
	1 : 50) @ A1 1 : 10	00 @ A3	
0	10	20	30	40

Issue	Description	Date
Α6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR INFORMATION MOD 3	29-11-19
A10	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A 11	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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	OD 6 APPF BE USED FOR C		A1
Scales		15-2	72-C1091.dw
	1 : 500	Drawn	GB
		Designed	GB
Height Datum	AHD	Checked	AM
Grid	MGA	Approved	AM



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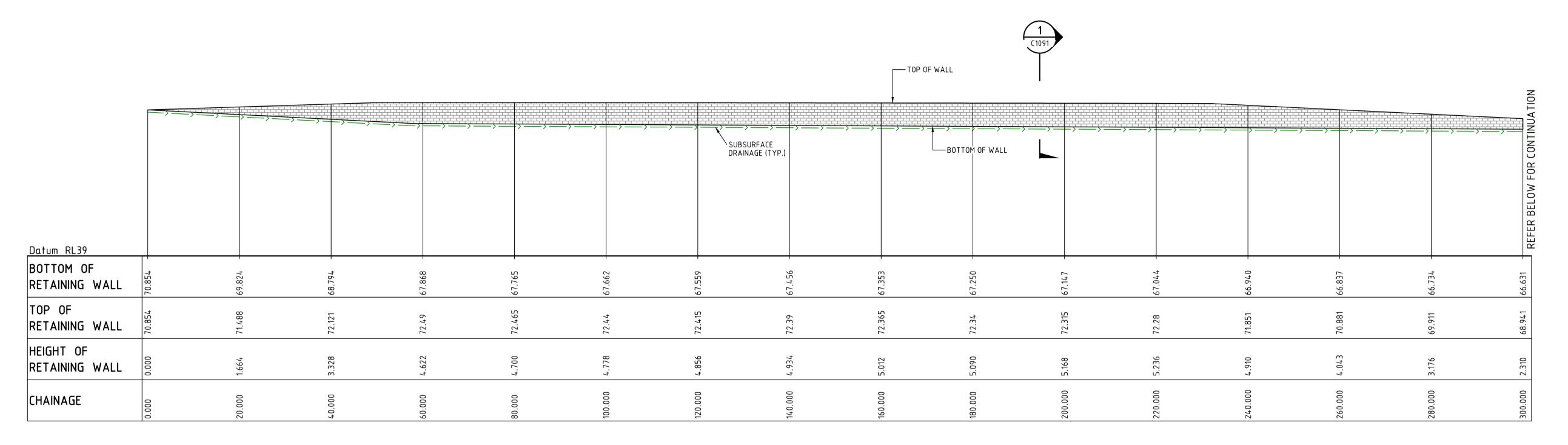
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PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

RETAINING WALL PROFILES SHEET 1 OF 9

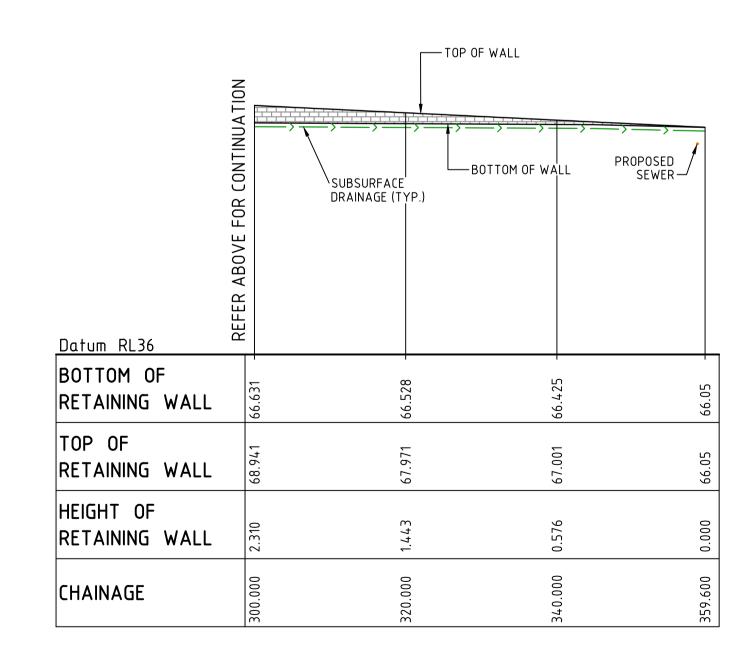
Drawing No. Project No. 15-272-C1091 15-272

Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1091.dwg



RETAINING WALL RW03 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

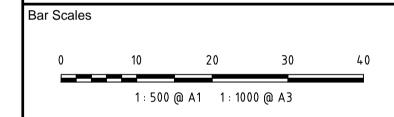


RETAINING WALL RW03 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

100mm on Original

ALL FINISHED LEVELS ARE ±1000mm U.N.O

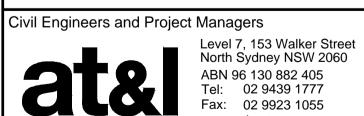


Issue	Description	Date
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION				
Scales		15-2	72-C	1092.
	1 : 500	Drawn	GB	\$
		Designed	GB	\$
Height Datum	AHD	Checked	AM	l
Grid	MGA	Approved	AM	I
Client				

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info@atl.net.au

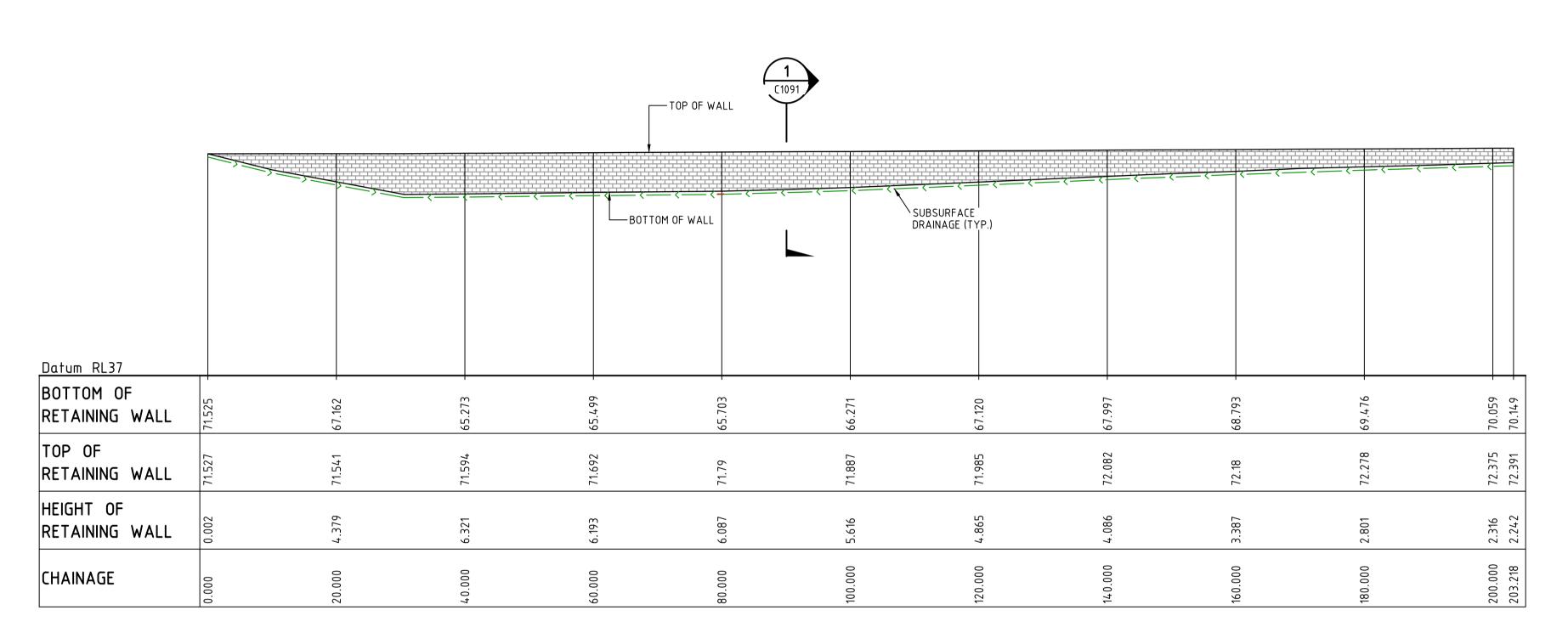
PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE WEST

Title

Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1092.dwg

RETAINING WALL PROFILES SHEET 2 OF 9

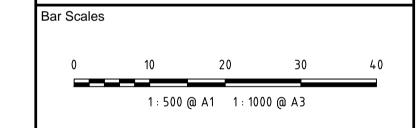
Drawing No. Project No. Issue 15-272-C1092 15-272 A10



RETAINING WALL RW04 PROFILE

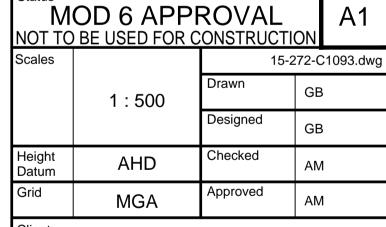
SCALE 1:500 HORI.
1:500 VERT.

100mm on Original



Issue	Description	Date
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
A6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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Title

Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1093.dwg

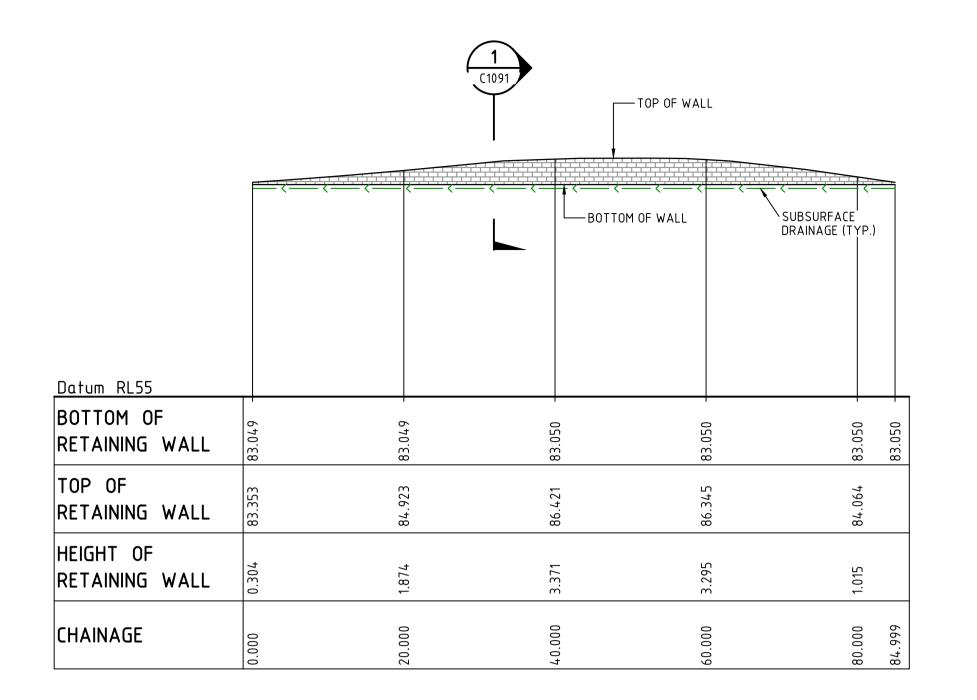
RETAINING WALL PROFILES SHEET 3 OF 9

Drawing No. 15-272-C1093

No. Project No. 15-272

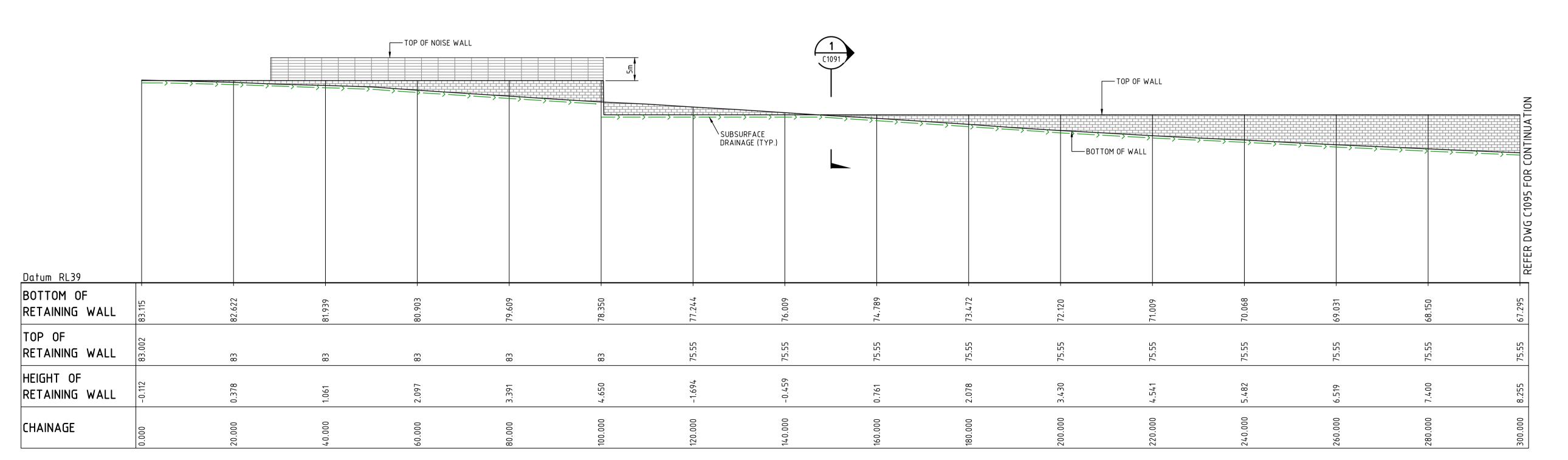
A10

ALL FINISHED LEVELS ARE ±1000mm U.N.O



RETAINING WALL RW05 PROFILE

SCALE 1:500 HORI.
1:500 VERT.



RETAINING WALL RW06 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

ALL FINISHED LEVELS ARE ±1000mm U.N.O

Dar Scales

0 10 20 30 40

1:500 @ A1 1:1000 @ A3

Issue	Description	Date
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
Α6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A10	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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 MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION

 Scales
 15-272-C1094.dwg

 Drawn
 GB

 Designed
 GB

 Height Datum
 AHD
 Checked
 AM

 Grid
 MGA
 Approved
 AM

 Client
 Client
 AM
 AM

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DEVELOPMENT
OAKDALE WEST

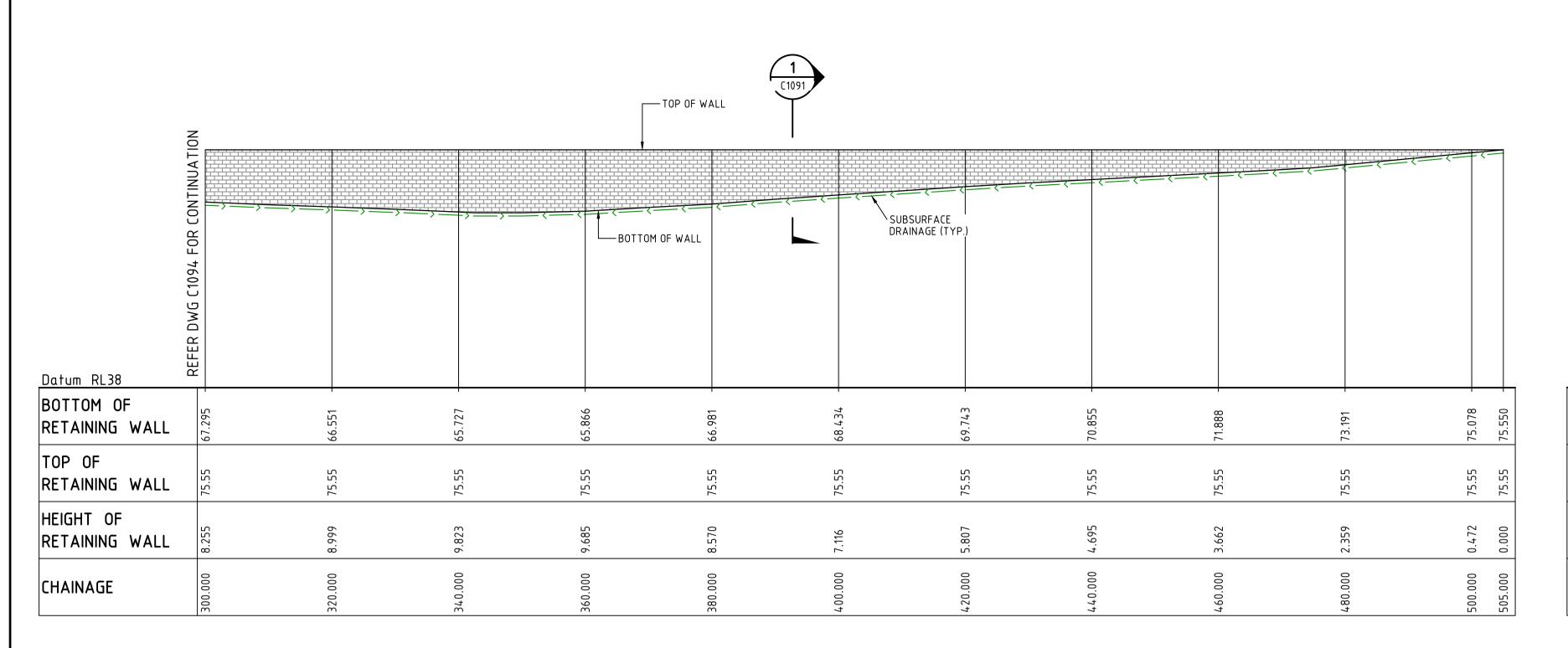
Title

RETAINING WALL PROFILES SHEET 4 OF 9

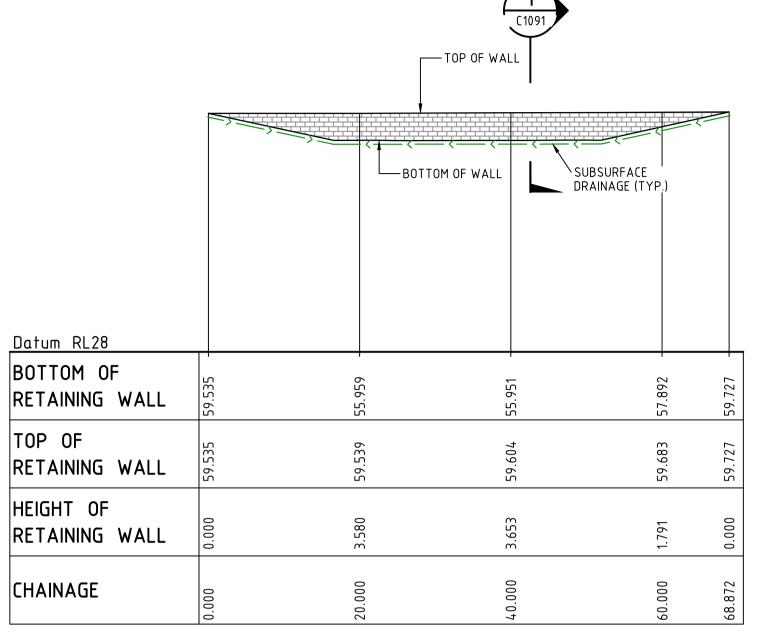
Drawing No. Project No. Issue 15-272-C1094 15-272 A10

Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1094.dwg

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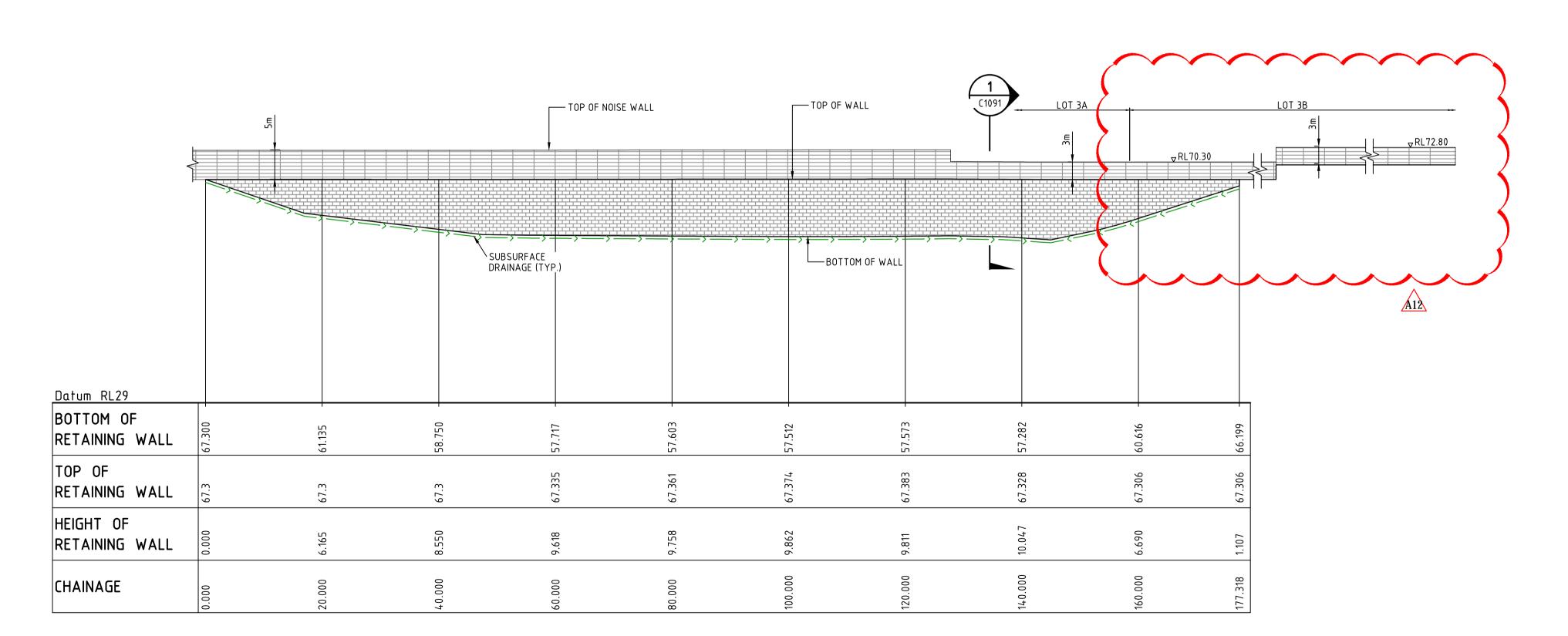


100mm on Original



RETAINING WALL RW06 PROFILE SCALE 1:500 HORI. 1:500 VERT.

RETAINING WALL RW07 PROFILE SCALE 1:500 HORI. 1:500 VERT.



RETAINING WALL RW09 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

ALL FINISHED LEVELS ARE ±1000mm U.N.O

Bar Scales				
0	10	20	30	40
	1 : 500 @ A	1 1:1000	0 @ A3	

Issue	Description	Date
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR INFORMATION MOD 3	29-11-19
A10	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A 11	ISSUED FOR SSD APPROVAL MOD 3	10-03-20
A12	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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	MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION								
	Scales		15-272-C1095.d						
		1 : 500	Drawn	GB					
			Designed	GB					
	Height Datum	AHD	Checked	АМ					
	Grid	MGA	Approved	AM					

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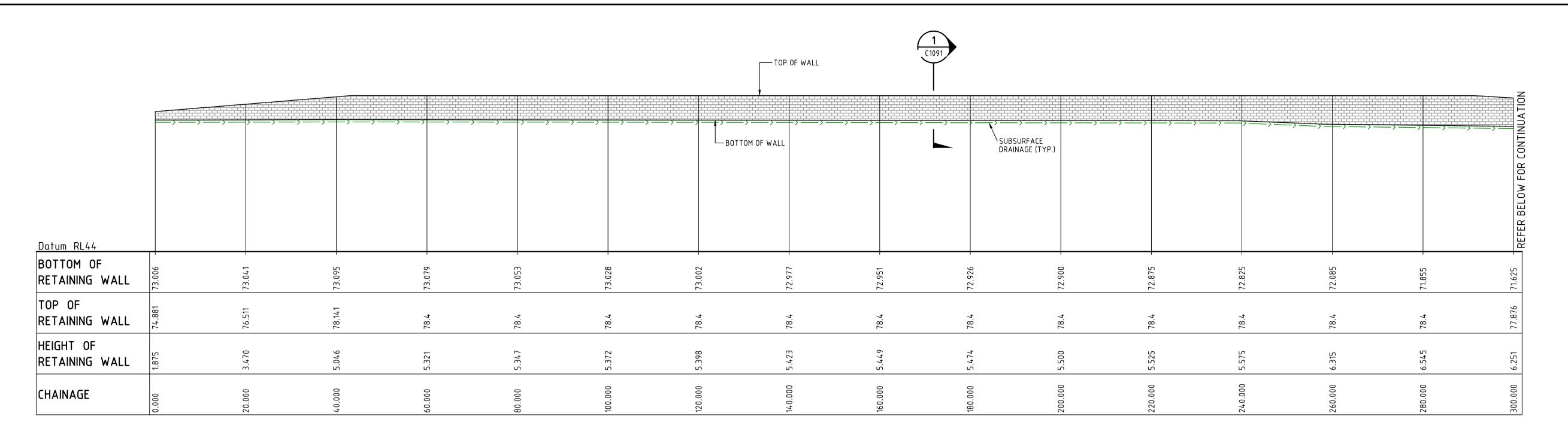
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1095.dwg

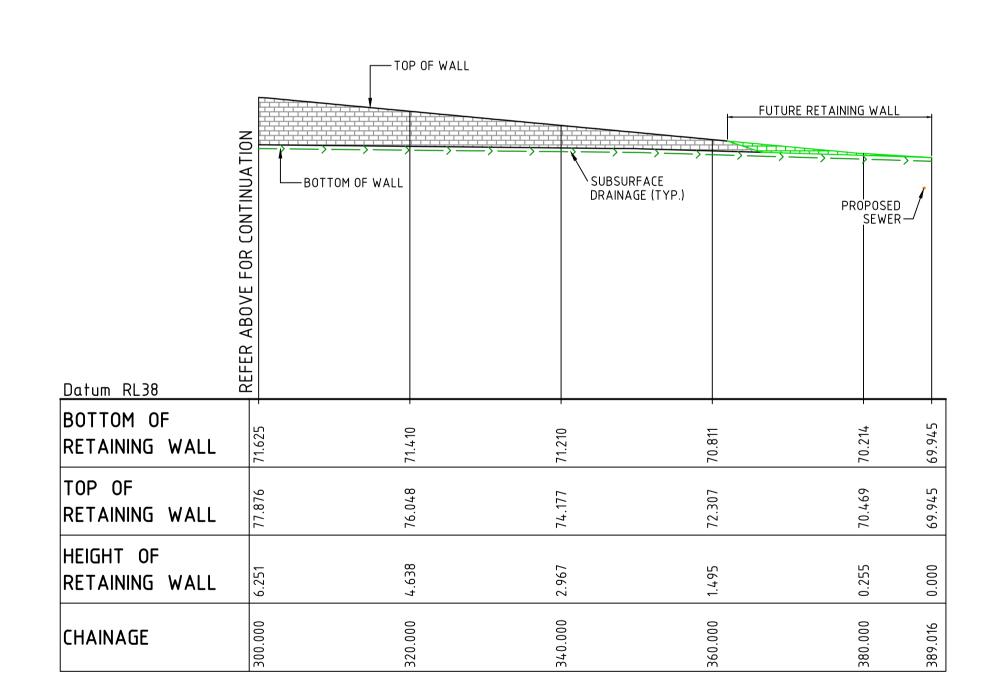
RETAINING WALL PROFILES SHEET 5 OF 9

Drawing No. Project No. 15-272-C1095 15-272

A12



RETAINING WALL RW10 PROFILE SCALE 1:500 HORI. 1:500 VERT.



100mm on Original

RETAINING WALL RW10 PROFILE SCALE 1:500 HORI. 1:500 VERT.

			T	OP OF WALL		
	В	OTTOM OF WALL	<	<	SUBSURFACE DRAINAGE (TYP.)	
<u>Datum RL40</u>						
BOTTOM OF RETAINING WALL	68.309	68.370		68.431	(68.483
TOP OF RETAINING WALL	69.226	69.525		69.825		70.264
HEIGHT OF RETAINING WALL	0.916	1.155		1.394	(1.542
CHAINAGE	0.000	20.000		000.07		60.000

RETAINING WALL RW21 PROFILE SCALE 1:500 HORI. 1:500 VERT.

ALL FINISHED LEVELS ARE ±1000mm U.N.O

0	10	20	30	4 (

Issue	Description	Date
Α6	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α7	ISSUED FOR INFORMATION MOD 3	12-11-19
A8	ISSUED FOR INFORMATION MOD 3	19-11-19
Α9	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
A10	ISSUED FOR SSD APPROVAL MOD 3	10-03-20
A 11	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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		OD 6 APPI BE USED FOR C		ON	A1
	Scales		15-2	272-C	1096.dw
		1 : 500	Drawn	GB	
			Designed	GB	
	Height Datum	AHD	Checked	AM	1
	Grid	MGA	Approved	AM	

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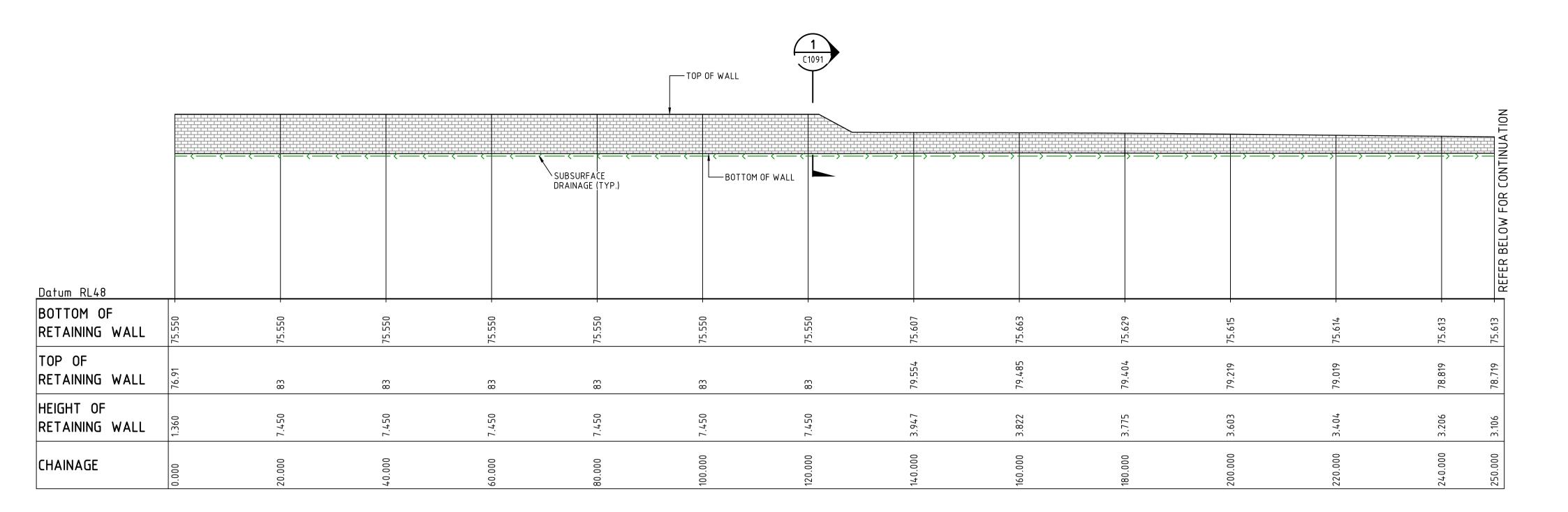
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1096.dwg

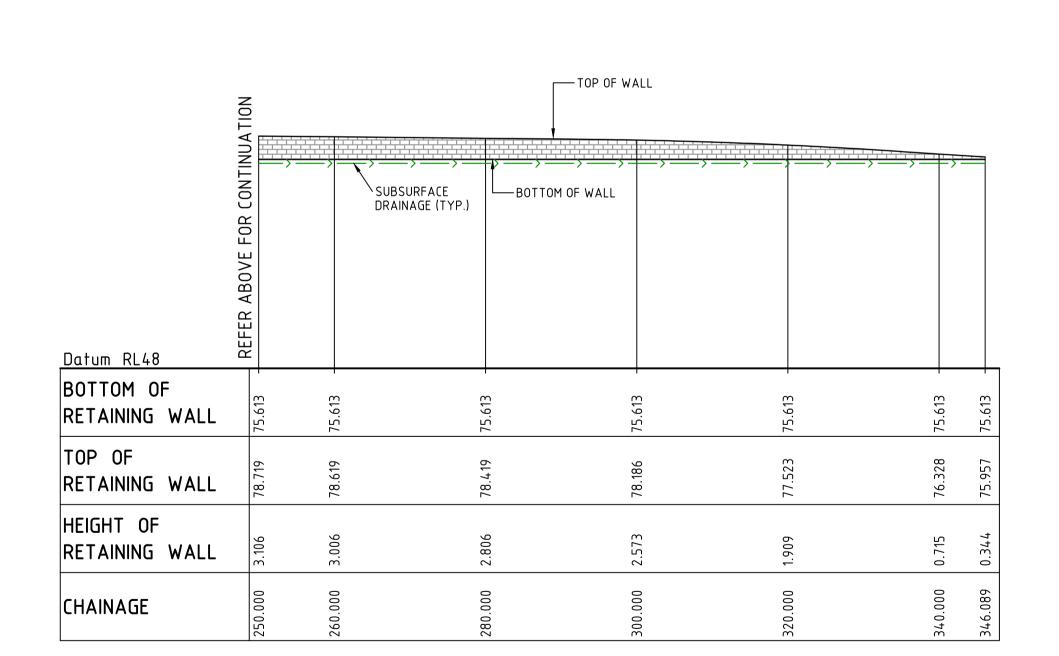
RETAINING WALL PROFILES SHEET 6 OF 9

Drawing No. Project No. 15-272-C1096 15-272

A11



RETAINING WALL RW12 PROFILE SCALE 1:500 HORI. 1:500 VERT.



100mm on Original

RETAINING WALL RW12 PROFILE

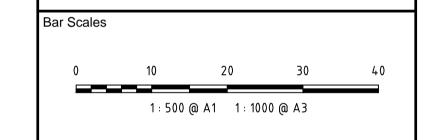
SCALE 1:500 HORI.
1:500 VERT.

		TOP OF WALL							
		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 	SUBSURFACE DRAINAGE (TYP.)	ВОТТ	OM OF WALL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)		
Datum RL40									
BOTTOM OF RETAINING WALL	75.580	72.763	72.770	72.770	72.770	72.765	72.760		
TOP OF RETAINING WALL	75.58	74.626	74.326	74.026	73.726	73.426	73.197		
HEIGHT OF RETAINING WALL	0.000	1.863	1.556	1.256	0.956	0.661	0.437		
CHAINAGE	0.000	20.000	40.000	900.09	80.000	100.000	115.281		

RETAINING WALL RW13 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

ALL FINISHED LEVELS ARE ±1000mm U.N.O



A9 ISSUED FOR SSD APPROVAL MOD \$0-10-2 A8 ISSUED FOR SSD APPROVAL MOD \$6-12-A7 ISSUED FOR INFORMATION MOD 3 19-11-19 A6 ISSUED FOR INFORMATION MOD 3 12-11-19 A5 ISSUED FOR SSD APPROVAL MOD 28-09-1 A4 ISSUED FOR SSD APPROVAL MOD 24-07-Issue Description

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		OD 6 APPI BE USED FOR C		ON	A1
	Scales		15-2	72-C	1097.dw
		1 : 500	Drawn	GB	1
			Designed	GB	1
	Height Datum	AHD	Checked	AM	1
	Grid	MGA	Approved	АМ	
			-		

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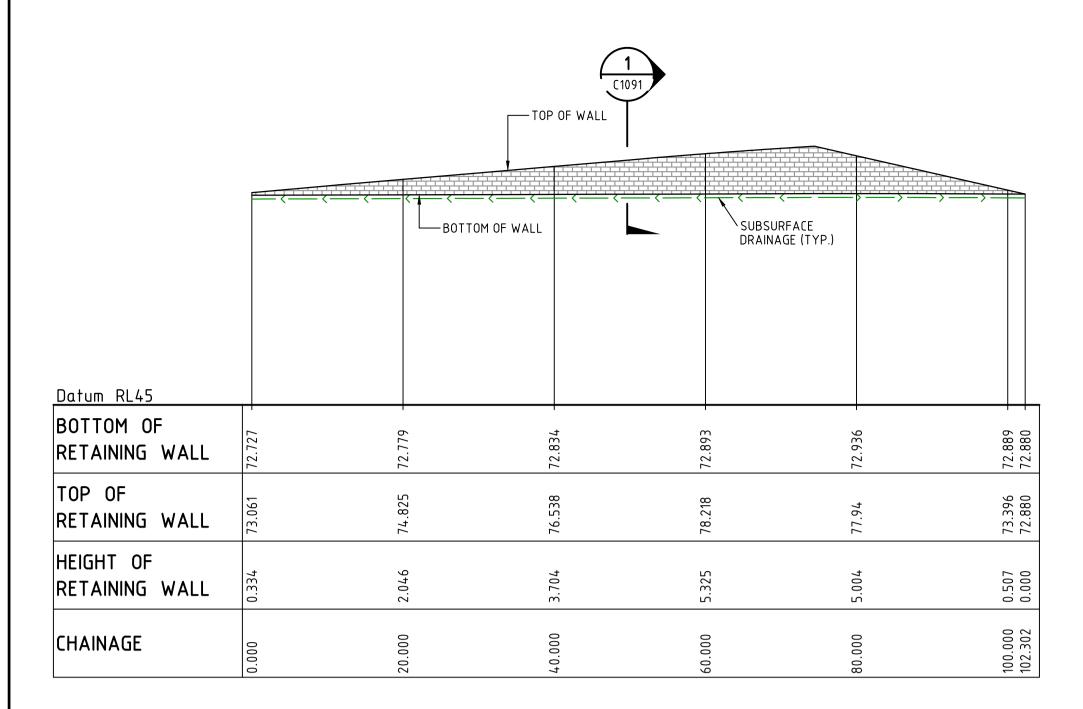
A9

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

RETAINING WALL PROFILES SHEET 7 OF 9

Drawing No. Project No.

15-272-C1097 15-272 Date Plotted: 20 Oct 2020 - 04:34PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1097.dwg



100mm on Original

	TOP OF WALL	
	BOTTOM OF WALL	SUBSURFACE DRAINAGE (TYP
Datum RL39		
BOTTOM OF RETAINING WALL	- 926.99	66.813 -
TOP OF RETAINING WALL	68.073	68.106
HEIGHT OF RETAINING WALL	1.146	1.294
CHAINAGE	0.000	33.000

		BOTTOM OF WALL	SUBSURFAC	
Datum RL37 BOTTOM OF RETAINING WALL	64.953	L	C 8.99	68.506
TOP OF RETAINING WALL	6.49		08.047	68.647
HEIGHT OF RETAINING WALL	-0.053	0	878. -	0.141
CHAINAGE	0.000		000.02	36.034

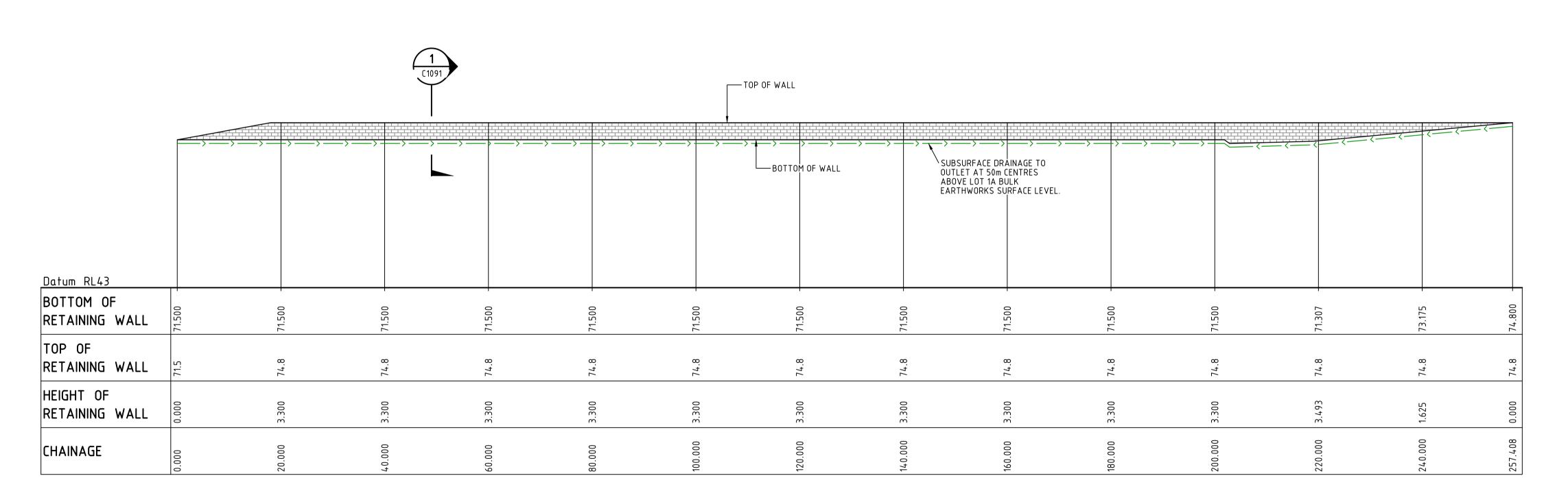
		TOP OF WALL BOTTOM OF WALL SUBSURFACE			
Datum DI 29				DRAINAGE (TY	'P.)
Datum RL28 BOTTOM OI		 			\dashv
RETAINING		55.580	ר רי	750.65	56.075
TOP OF RETAINING	WALL	56.5	,	2077.75	56.32
HEIGHT OF RETAINING	WALL	0.920	, , ,	C 06:1	0.246
CHAINAGE		0.000		000	35.814

RETAINING WALL RW14 PROFILE SCALE 1:500 HORI. 1:500 VERT.

RETAINING WALL RW15 PROFILE SCALE 1:500 HORI. 1:500 VERT.

RETAINING WALL RW17 PROFILE SCALE 1:500 HORI. 1:500 VERT.

RETAINING WALL RW18 PROFILE SCALE 1:500 HORI. 1:500 VERT.



RETAINING WALL RW20 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

ALL FINISHED LEVELS ARE ±1000mm U.N.O

0	10	20	30	4(
V	10	20	٥٠	

Issue	Description	Date
Α4	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
A5	ISSUED FOR SSD APPROVAL MOD 2	18-09-19
Α6	ISSUED FOR INFORMATION MOD 3	12-11-19
Α7	ISSUED FOR INFORMATION MOD 3	19-11-19
A8	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
Α9	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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	MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION					
Scales		15-2	72-C	21098.dw		
	1 : 500	Drawn	GB	}		
		Designed	GB	}		
Height Datum	AHD	Checked	AM	1		
Grid	MGA	Approved	AM	1		

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Issue

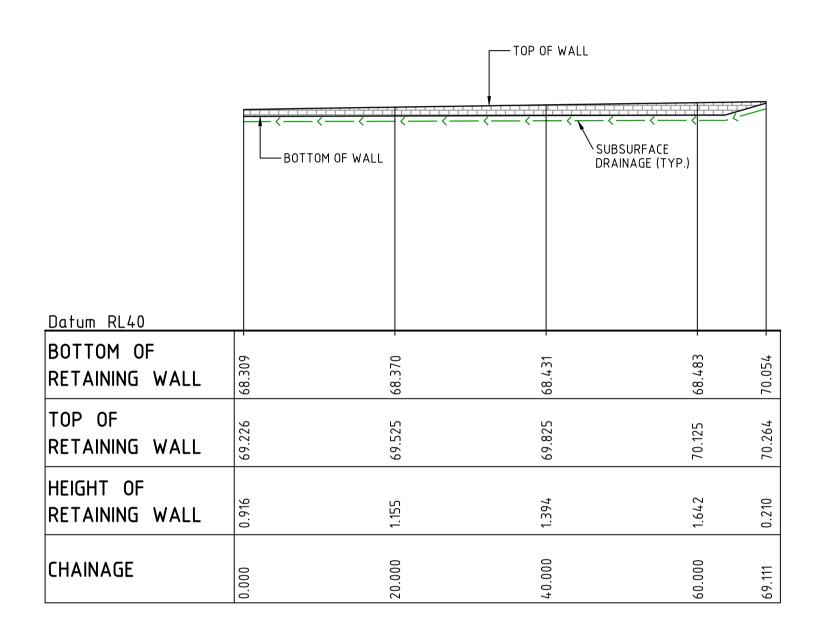
PROPOSED INDUSTRIAL

DEVELOPMENT OAKDALE WEST

RETAINING WALL PROFILES SHEET 8 OF 9

Drawing No. Project No.

15-272-C1098 15-272 **A9** Date Plotted: 20 Oct 2020 - 04:35PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1098.dwg



RETAINING WALL RW21 PROFILE

SCALE 1:500 HORI.
1:500 VERT.

100mm on Original

Bar Scales

0 10 20 30 40

1:500 @ A1 1:1000 @ A3

A1 ISSUED FOR SSD APPROVAL MOD 6 20-10-20

Issue Description Date

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 MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION

 Scales
 15-272-C1099.dwg

 Drawn
 GB

 Designed
 GB

 Height Datum
 AHD

 Checked AM
 AM

 Grid
 MGA

 Approved
 AM

Clie



Civil Engineers and Project Managers
Level 7, 153



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Project

PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE WEST

Title

Date Plotted: 20 Oct 2020 - 04:35PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1099.dwg

RETAINING WALL PROFILES SHEET 9 OF 9

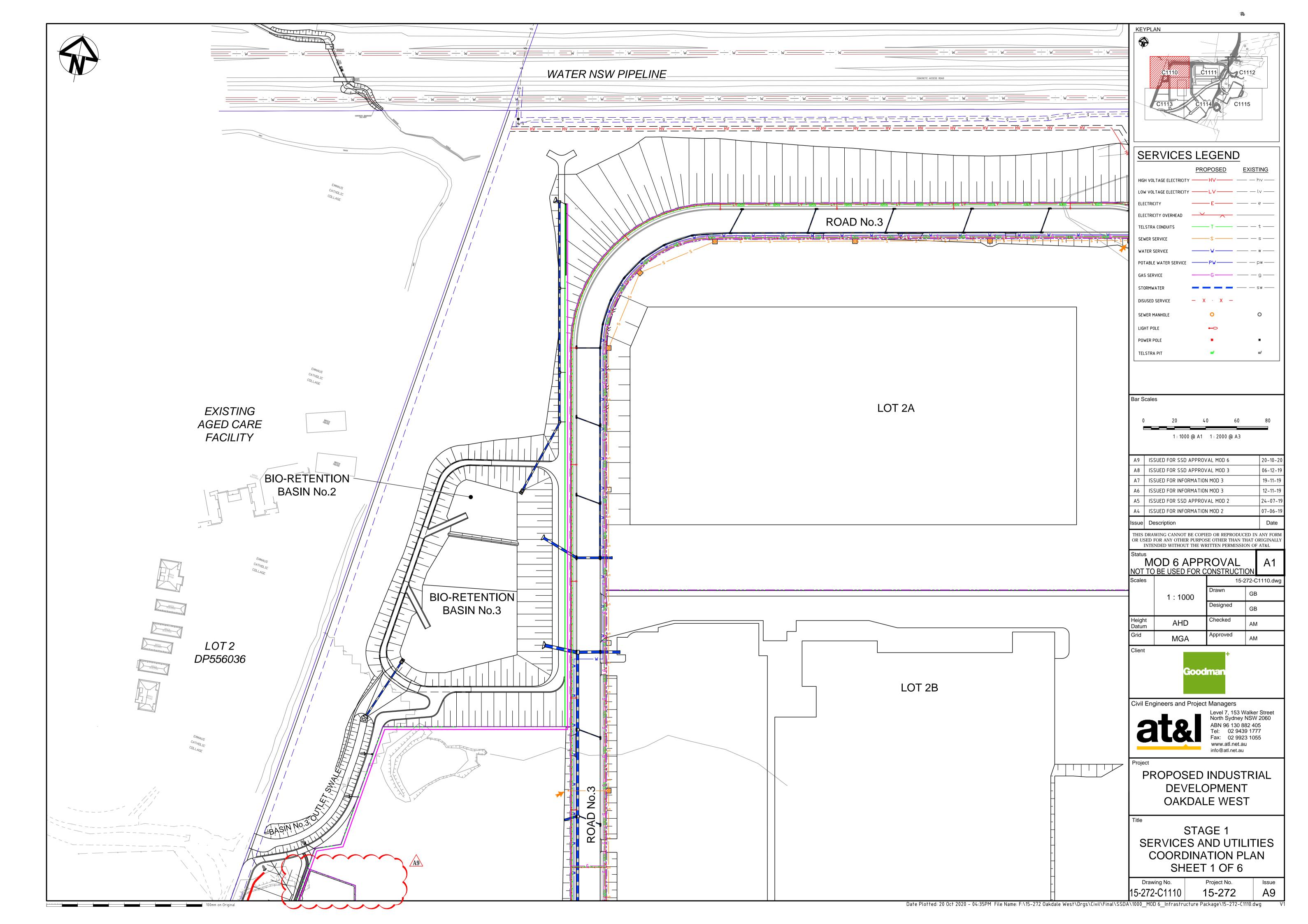
Drawing No. 15-272-C1099

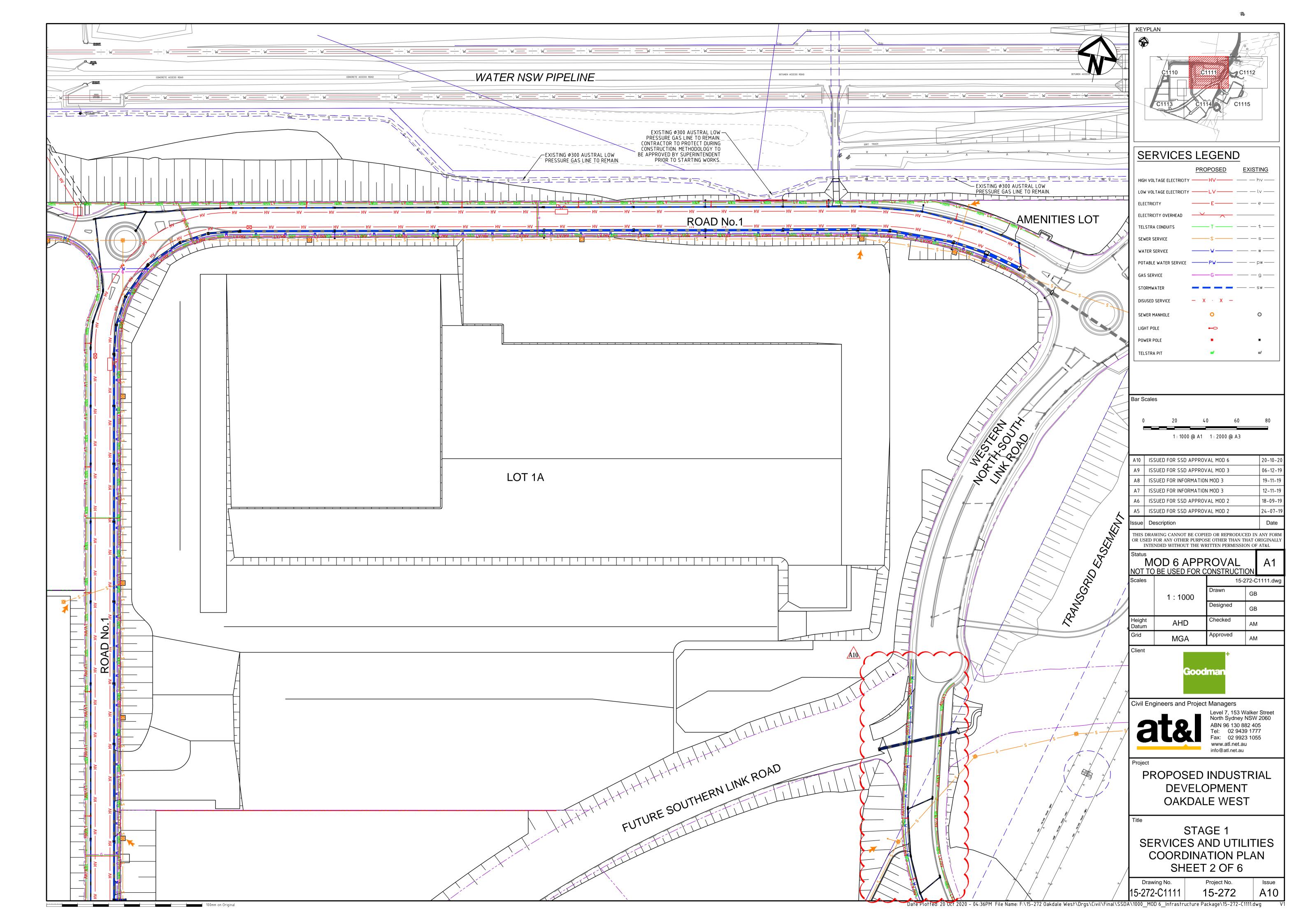
Project No. 15-272

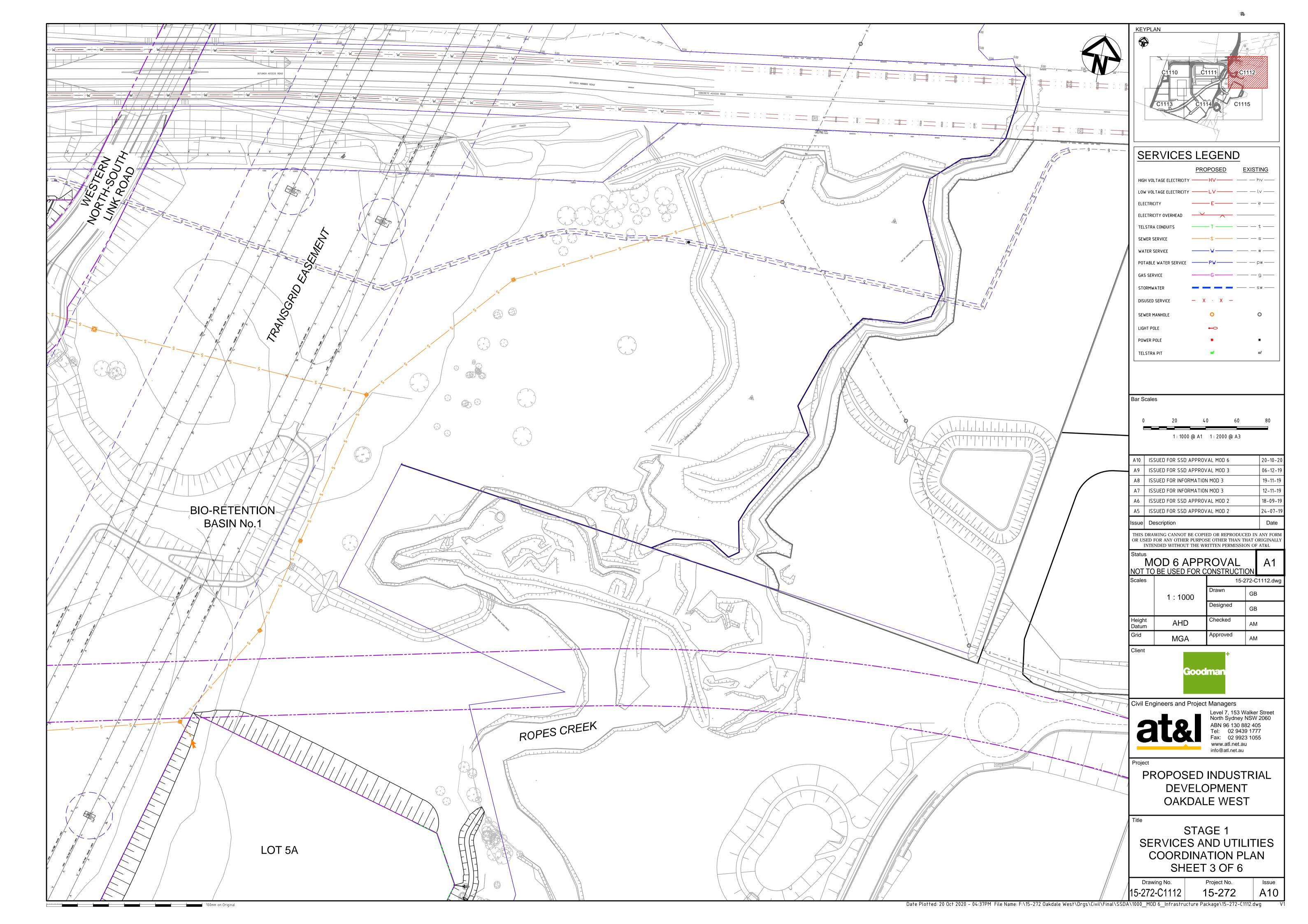
Issue

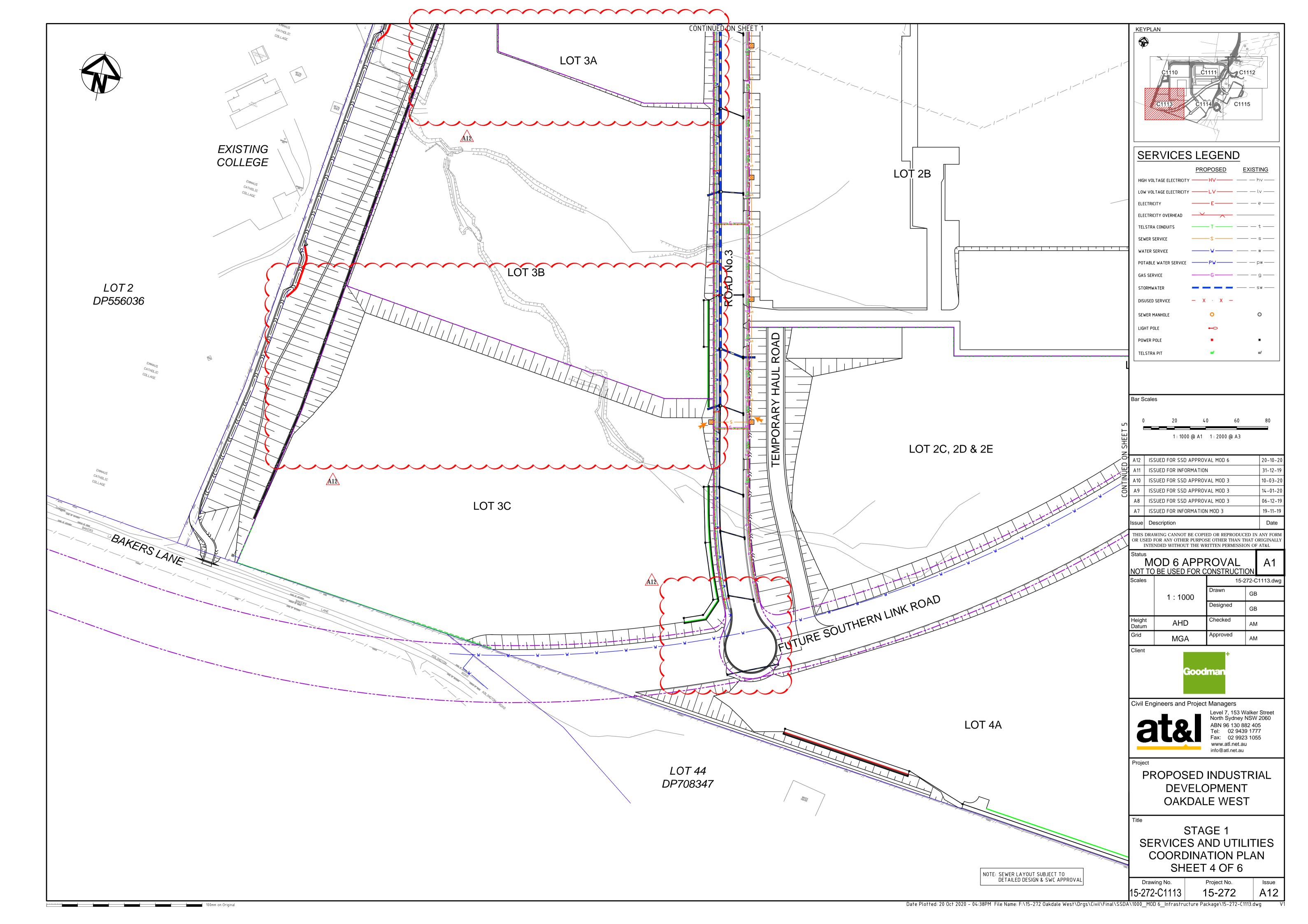
A1

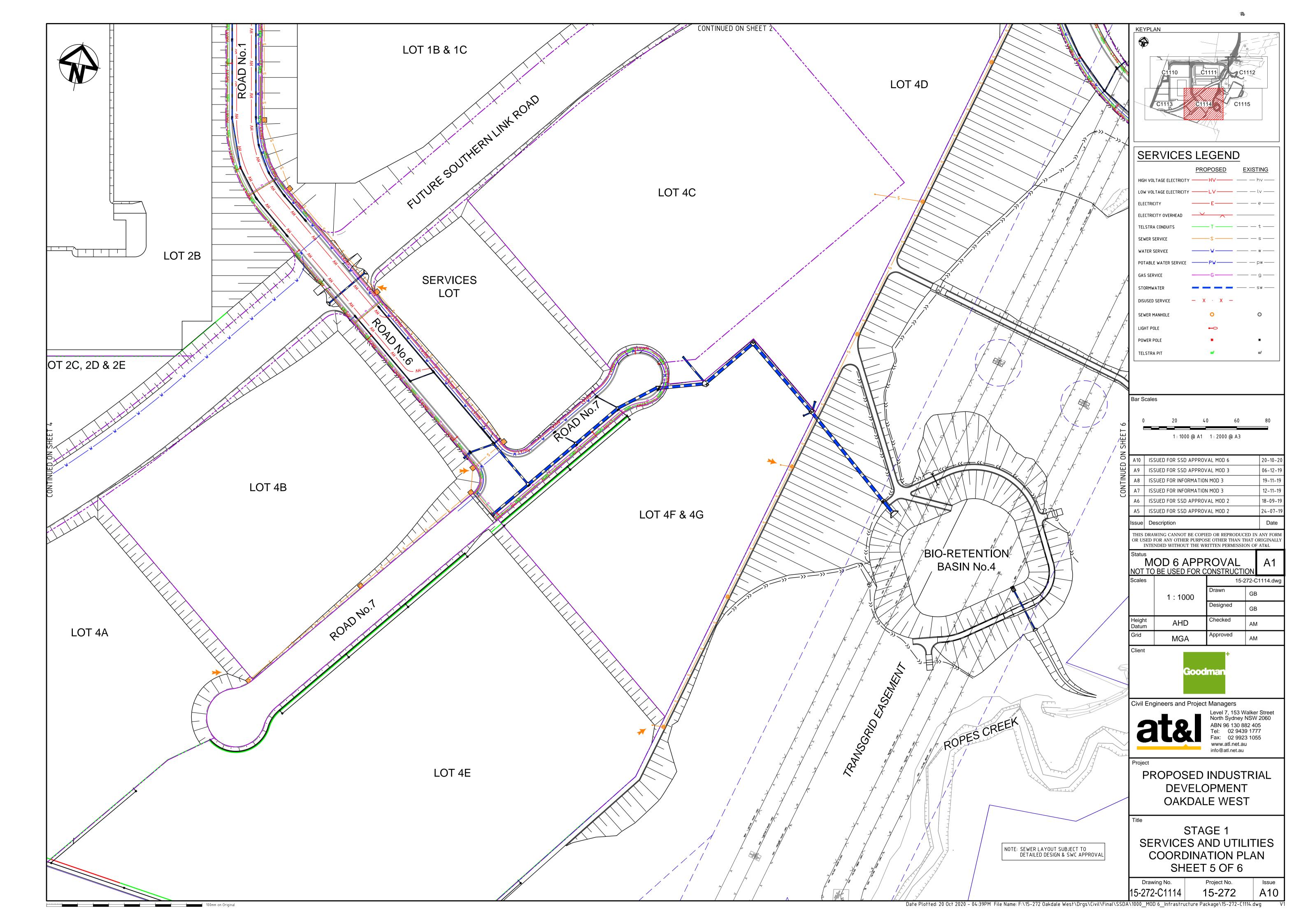
ALL FINISHED LEVELS ARE ±1000mm U.N.O

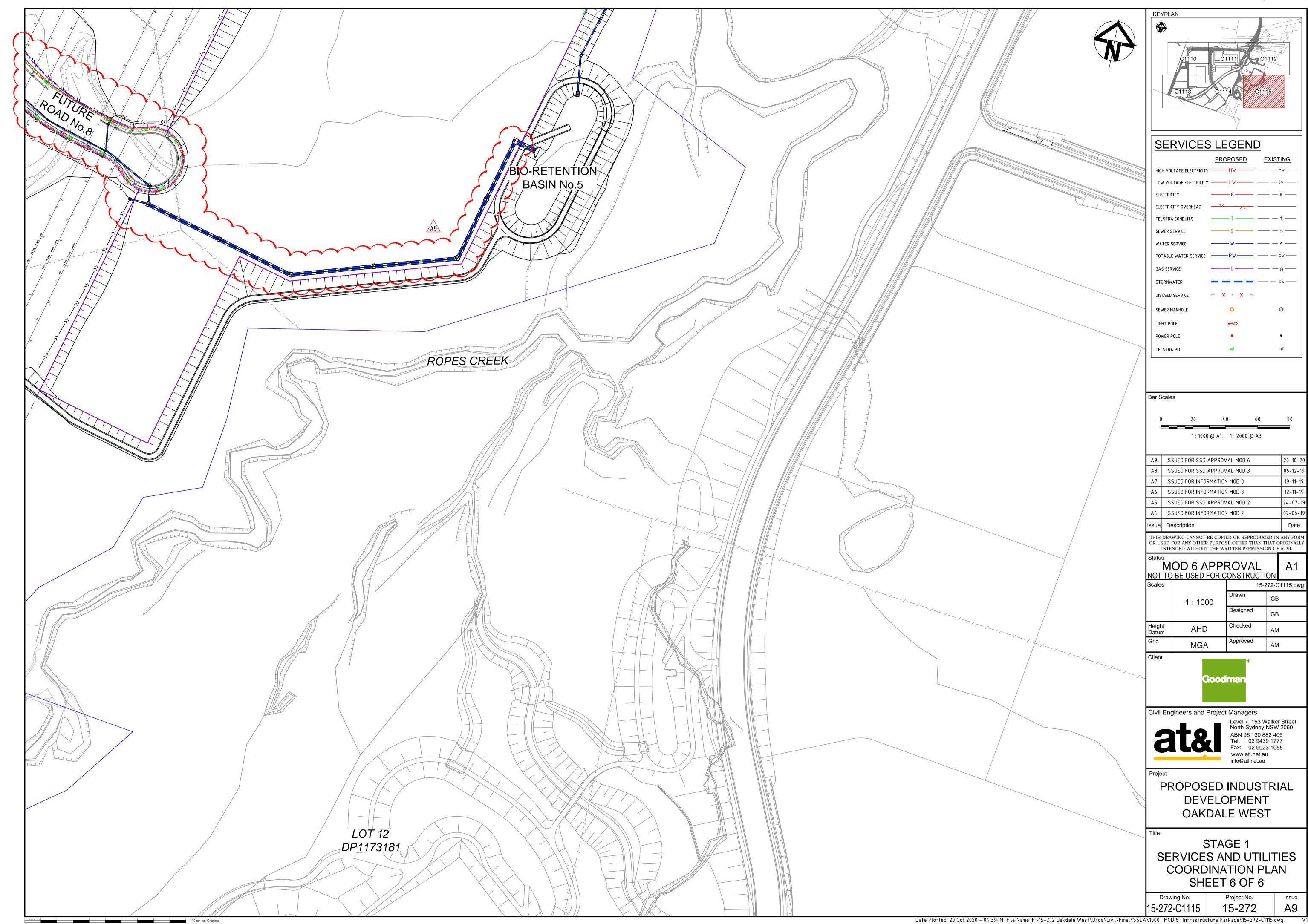




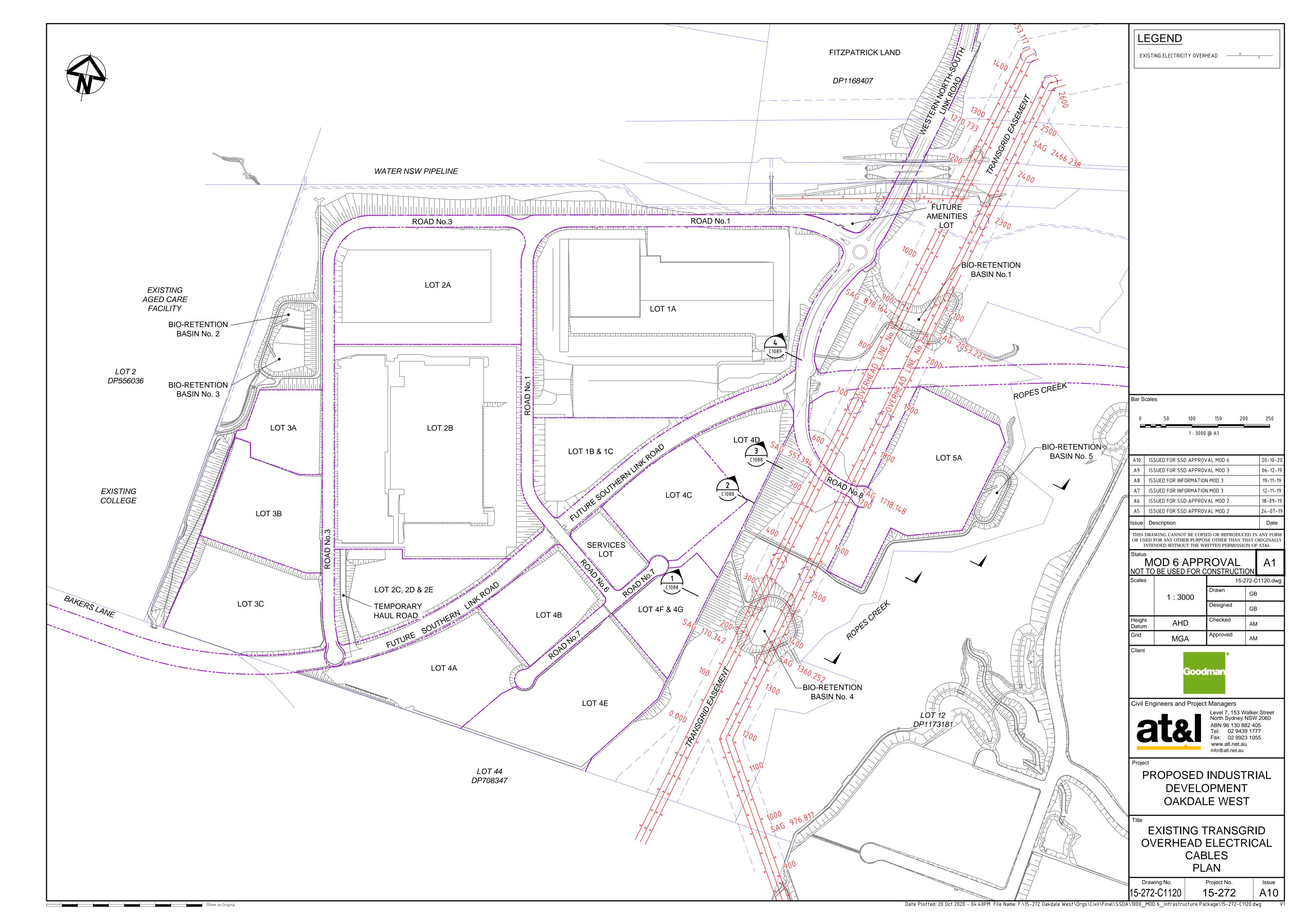


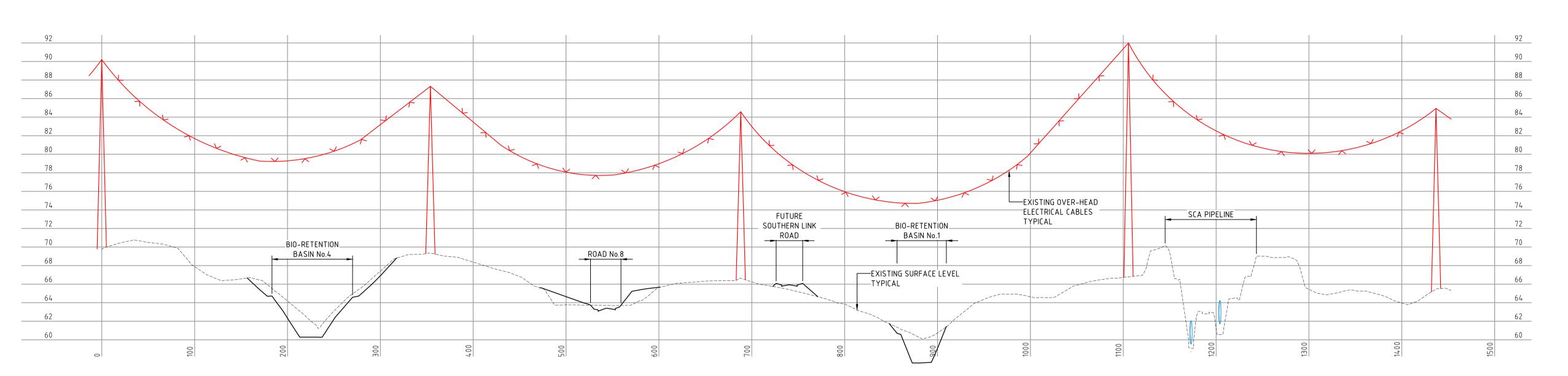




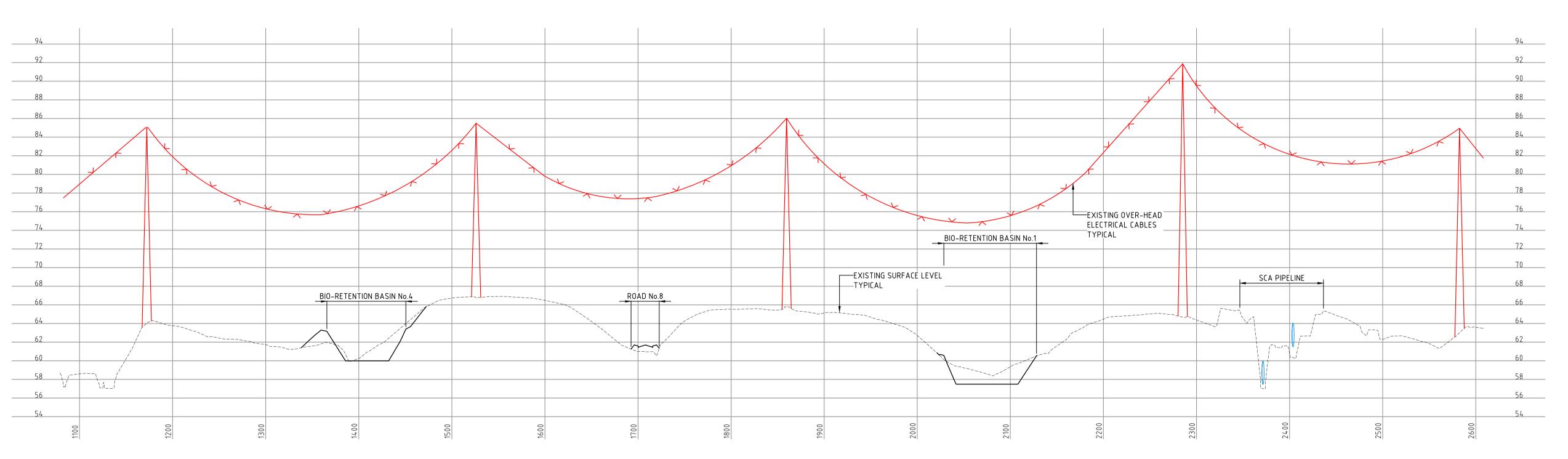


淼





TRANSGRID OVERHEAD CABLE LINE No.1 LONGITUDINAL SECTION 1: 250 VER 1: 2500 HOR



TRANSGRID OVERHEAD CABLE LINE No.2

LONGITUDINAL SECTION

1: 250 VER

1: 2500 HOR

Bar S	cales				
C)	5	10	15	20
		1: 250 @	A1 1:500	0 @ A3	
()	50	100	150	200
1		1 : 2500 @	A1 1:500	00 @ A3	
ΔФ	ISSLIED E	OR SSD AP	PROVAL MO	nn 6	20_10_2

Α9	ISSUED FOR SSD APPROVAL MOD 6	20-10-
A8	ISSUED FOR SSD APPROVAL MOD 3	06-12-
Α7	ISSUED FOR INFORMATION MOD 3	19-11-
А6	ISSUED FOR INFORMATION MOD 3	12-11-
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-
Α4	ISSUED FOR INFORMATION MOD 2	07-06-
Issue	Description	Date

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		OD 6 APPI BE USED FOR C		ON	A1
	Scales		15-272-C1121.dv		
		AS SHOWN	Drawn	GB	}
			Designed	GB	}
	Height Datum	AHD	Checked	ΑM	I
	Grid	MGA	Approved	AM	1





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Project

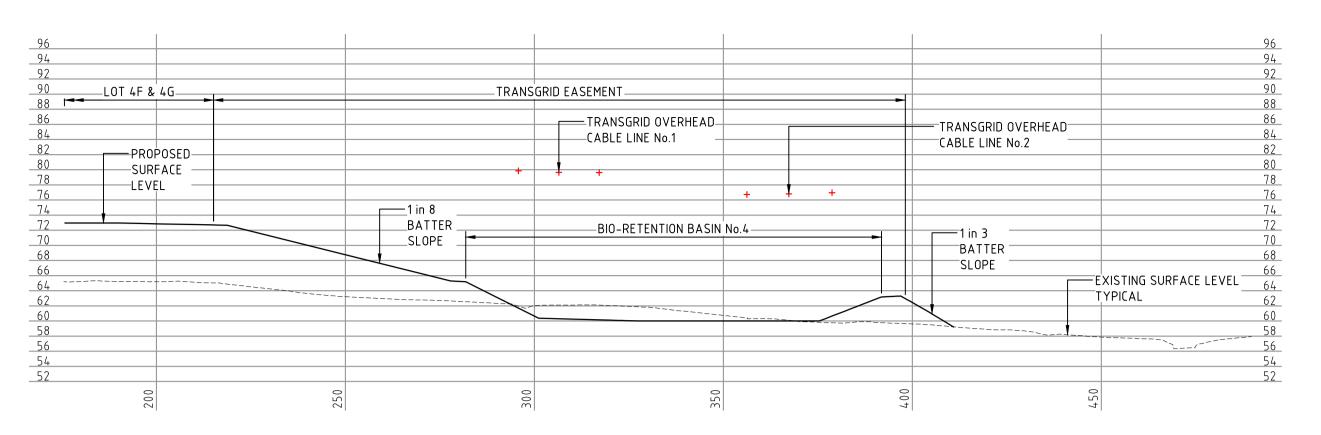
PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE WEST

EXISTING TRANSGRID
OVERHEAD ELECTRICAL
CABLES
LONGITUDINAL SECTIONS

Drawing No. 15-272-C1121

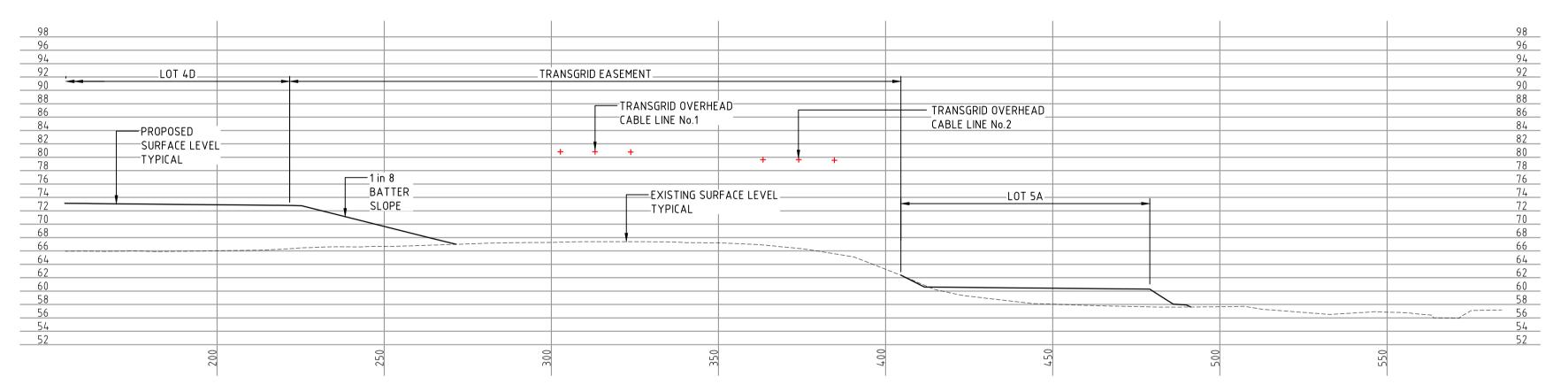
Project No. 15-272

Date Plotted: 20 Oct 2020 - 04:40PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1121.dwg



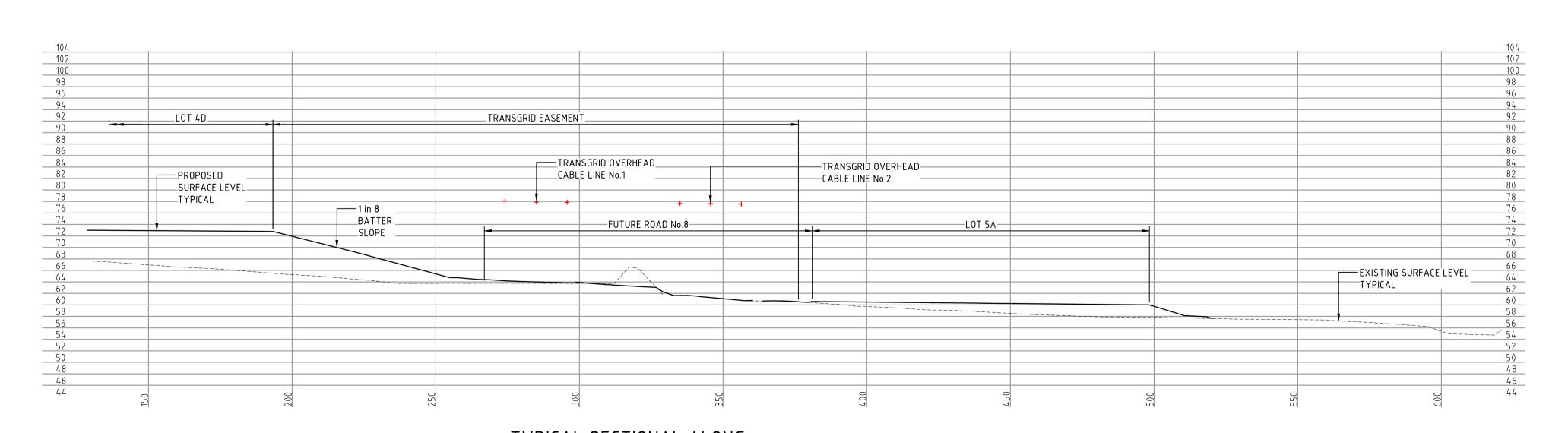
TYPICAL SECTIONAL ALONG CABLE LINE No.1 AT CH220

SECTION 1:500 VER 1:1000 HOR



TYPICAL SECTIONAL ALONG CABLE LINE No.1 AT CH420

SECTION 1:500 VER 1:1000 HOR



TYPICAL SECTIONAL ALONG CABLE LINE No.1 AT CH540

> SECTION 1:1000 HOR

Bar S	cales					
C)	10	2	0	30	40
		1 : 500 (@ A1	1 : 1000	@ A3	
C)	20	4	0	60	80
l		1 : 1000	@ A1	1: 2000	@ A3	
Α9	ISSUED F	OR SSD A	\PPR0\	/AL MOD	6	20-10-2

		1: 1000 (a) A1 1: 2000 (a) A3	
	Α9	ISSUED FOR SSD APPROVAL MOD 6	20-10-20
	A8	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
	Α7	ISSUED FOR INFORMATION MOD 3	19-11-19
	А6	ISSUED FOR INFORMATION MOD 3	12-11-19
	A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-1
	Α4	ISSUED FOR INFORMATION MOD 2	07-06-19
	Issue	Description	Date

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	MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION					
	Scales		15-2	72-0	21122.0	
		AS SHOWN	Drawn	GE	3	
			Designed	GE	}	
	Height	AHD	Checked	ΔΝ	1	



Approved

Civil Engineers and Project Managers

MGA



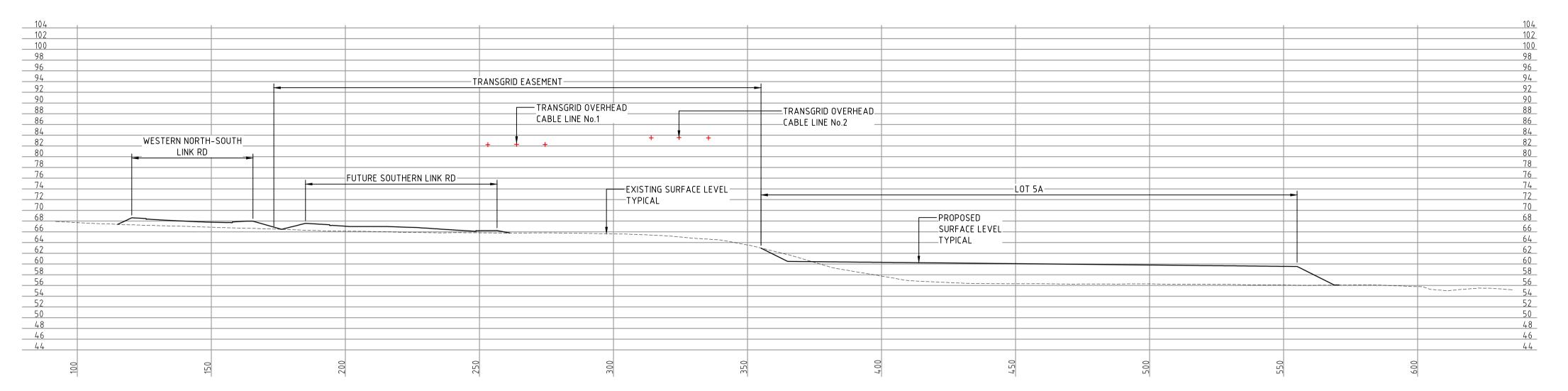
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Date Plotted: 20 Oct 2020 - 04:40PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1122.dwg

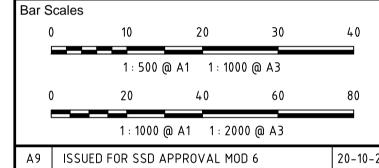
EXISTING TRANSGRID OVERHEAD ELECTRICAL CABLES TYPICAL SECTIONS SHEET 1 OF 2

Drawing No. Project No. 15-272-C1122 15-272



TYPICAL SECTIONAL ALONG CABLE LINE No.1 AT CH715

1:500 VER 1:1000 HOR



Issue	Description	Date
Α4	ISSUED FOR INFORMATION MOD 2	07-06-19
A5	ISSUED FOR SSD APPROVAL MOD 2	24-07-19
А6	ISSUED FOR INFORMATION MOD 3	12-11-19
Α7	ISSUED FOR INFORMATION MOD 3	19-11-19
A8	ISSUED FOR SSD APPROVAL MOD 3	06-12-19
Α9	ISSUED FOR SSD APPROVAL MOD 6	20-10-20

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MOD 6 APPROVAL NOT TO BE USED FOR CONSTRUCTION						
Scales		15-2	72-C	1123.dv		
	AS SHOWN	Drawn	GB			
		Designed	GB	1		
Height Datum	AHD	Checked	AM	1		



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PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE WEST

EXISTING TRANSGRID OVERHEAD ELECTRICAL CABLES TYPICAL SECTIONS SHEET 2 OF 2

Project No.

15-272-C1123

15-272 Date Plotted: 20 Oct 2020 - 04:40PM File Name: F:\15-272 Oakdale West\Drgs\Civil\Final\SSDA\1000_MOD 6_Infrastructure Package\15-272-C1123.dwg

