

Appendix F

CIVIL

Stormwater Design Drawings (AT&L)

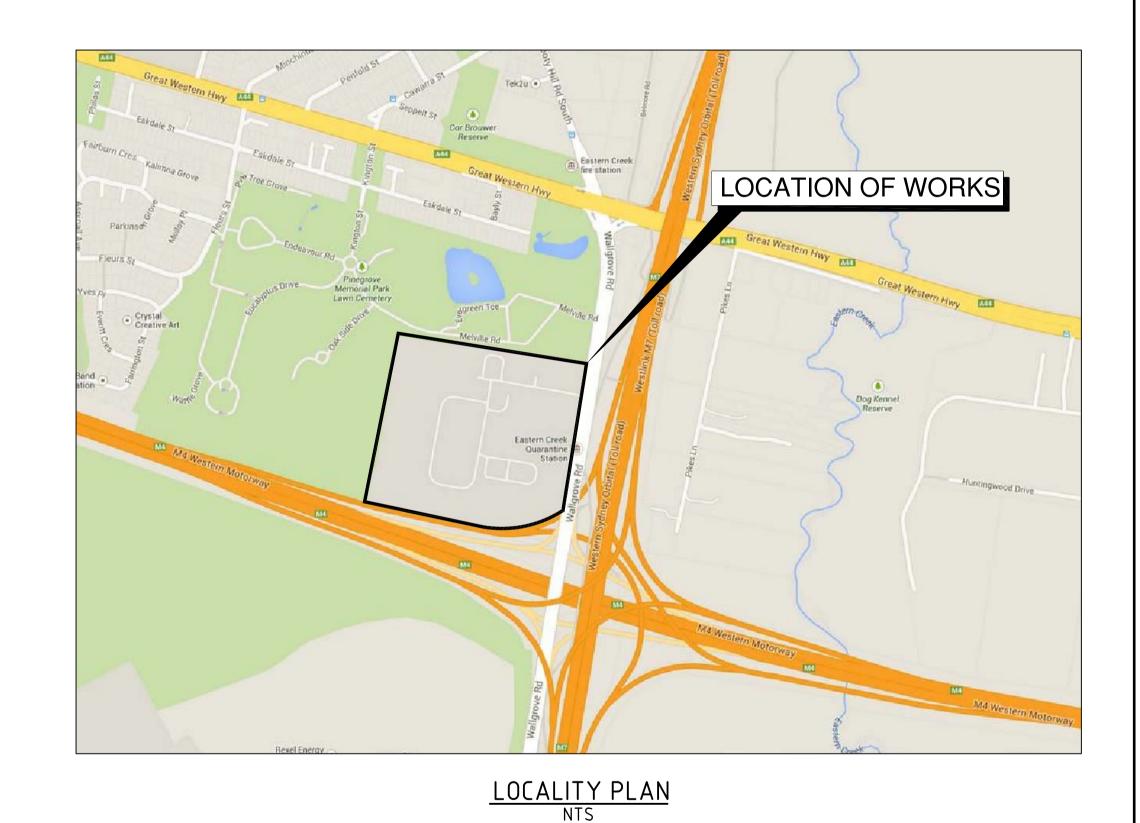
Civil Engineers & Project Managers

60 WALLGROVE ROAD, EASTERN CREEK INTERNAL CIVIL WORKS PACKAGE SSDA APPROVAL ISSUE

DWG NO.	DRAWING TITLE		
DAC001	COVER SHEET AND LOCALITY PLAN	DAC071	PAVEMENT PLAN SHEET 1
DAC002	NOTES AND LEGENDS	DAC072	PAVEMENT PLAN SHEET 2
		DAC073	PAVEMENT PLAN SHEET 3
DAC005	PROJECT STAGING PLAN	DAC074	PAVEMENT PLAN SHEET 4
		DAC075	LINEMARKING AND SIGNAGE PLAN
DAC010	GENERAL ARRANGEMENT PLAN		
DAC011	TYPICAL SITE SECTIONS SHEET 1	DAC081	PRE/POST DEVELOPMENT CATCHMENT PLAN
DAC012	TYPICAL SITE SECTIONS SHEET 2	DAC082	OVERALL CATCHMENT PLAN
DAC013	TYPICAL SITE SECTIONS SHEET 3	DAC083	ONSITE DETENTION TANK PLAN AND DETAILS
DAC014	TYPICAL SITE SECTIONS SHEET 4	DAC084	BIO-RETENTION BASIN PLAN AND DETAILS
DAC015	TYPICAL SITE SECTIONS SHEET 5	DAC085	BIO-SWALE PLAN AND DETAILS
DAC016	TYPICAL SITE SECTIONS SHEET 6		
DAC017	TYPICAL SITE SECTIONS SHEET 7	DAC091	SERVICES COORDINATION PLAN SHEET 1
		DAC092	SERVICES COORDINATION PLAN SHEET 2
DAC025	TYPICAL ROAD SECTIONS	DAC093	SERVICES COORDINATION PLAN SHEET 3
DAC030	BULK EARTHWORKS CUT TO FILL PLAN	DAC101	EROSION AND SEDIMENTATION CONTROL PLAN SHEET 1
		DAC102	EROSION AND SEDIMENTATION CONTROL PLAN SHEET 2
DAC031	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1	DAC103	EROSION AND SEDIMENTATION CONTROL PLAN SHEET 3
DAC032	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2	DAC104	EROSION AND SEDIMENTATION CONTROL PLAN SHEET 4
DAC033	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3		
DAC034	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4	DAC111	VEHICLE TURNING PATH PLAN
DAC035	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5		
DAC036	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6		
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DAC041	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 11		
DAC042	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 12		
DAC050	ROAD MC03 LONGITUDINAL SECTION		

Date

Description





12-108

		Bar Scales		Client	Scales	Drawn AH	Project	Civil Engineers and Project Managers
			THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN			Designed AH	60 WALLGROVE ROAD INTERNAL WORKS	Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413
			ANY FORM OR USED FOR ANY		Grid	Checked AMcI		
			OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED		Height Datum	Approved MG		www.atl.net.au info@atl.net.au
			WITHOUT THE WRITTEN	mirvac			litle	Status FOR A DDDO\/AL
B RE-ISSUED FOR APPROVAL	28-05-15		PERMISSION OF AT&L				COVER SHEET	FOR APPROVAL A1 NOT TO BE USED FOR CONSTRUCTION
A ISSUED FOR APPROVAL	26-05-15						AND LOCALITY PLAN	Drawing No. Project No. Issue

KERBING NOTES

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH 0F25 MPa
- 2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 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 600mm 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.

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.T.A. SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.T.A. 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.T.A. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 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.T.A. 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 THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND 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.

STORMWATER DRAINAGE NOTES

- I. STORMWATER DESIGN CRITERIA: (A) AVERAGE RECURRENCE INTERVAL
- 1:100 YEARS ROOFED AREAS TO SURCHARGE PIT 1:20 YEARS EXTERNAL PAVEMENTS
- (B) RAINFALL INTENSITIES: TIME OF CONCENTRATION: 5 MINUTES 1:100 YEARS= 219 mm/hr 1:20 YEARS= 168 mm/hr

IN HEIGHT

- (C) RUNOFF COEFFICIENTS: ROOF AREAS: EXTERNAL PAVEMENTS: C20
- 2. PIPES 750 DIA. AND LARGER TO UTILISE SULPHATE RESISTANT CEMENT
- 3. PIPES 300 DIA. AND LARGER TO BE FIBRE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- WELDED JOINTS. 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

4. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT

- 6. PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- 7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2
- 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. 10. WHERE SUBSOIL DRAINS PASS UNDER ELOOR 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.
- 14. 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.

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.

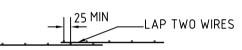
ELEMENT	AS 3600 F'c MPa	SPECIFIED	NOMINAL
	AT 28 DAYS	SLUMP	AGG. SIZE
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE
- 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.T.A. 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



1. ORIGIN OF LEVELS: REFER SURVEY NOTES 2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND

BULK EARTHWORKS NOTES

- REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT. 3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE
- OPTIMUM MOISTURE CONTENT 4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

STANDARD DRY DENSITY (AS 1289 E 5.1.1.) UNDER BUILDING SLABS ON GROUND

UNDER ROADS AND

CARPARKS LANDSCAPED AREAS UNLESS NOTED OTHERWISE 98%

- 5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX. 6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm
- MOVEMENT UNDER ROLLER). 7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :-(A) 1 TEST PER 200m³ OF FILL PLACED PER 300 LAYER OF FILL.
- (B) 3 TESTS PER VISIT (C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798
- 8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS 9. NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF AT & L

AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED

- 9. EARTHWORKS TO BE INDERTAKEN IN ACCORDANCE WITH THE RECOMMENDATIONS OF DOUGLAS & PARTNERS GEOTECHNICAL REPORTS REF. 71089.00 AND 84798.00
- 10. SALINITY MANAGEMENT WILL BE REUIRED ON SITE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE DOUGLAS AND PARTNERS GEOTECHNICAL REPORT

SERVICES LEGEND

EXISTING SERVICES

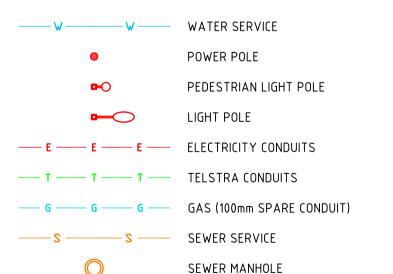
—— — EOH — — — ELECTRICITY OVERHEAD LIGHT POLE — — T — — T — TELSTRA CONDUITS --- s --- s --- SEWER SERVICE — w — w — w — WATER SERVICE — - G - - - G - - - GAS SERVICE —— – SW – – – SW – — STORMWATER WATER HYDRANT

— e — e — e — ELECTRICITY

WATER STOP VALVE

PROPOSED SERVICES

─ ─ ─ ─ ─ STORMWATER



SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAS BEEN COMPILED VIA WAE SURVEY

- 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.
- ORIGIN OF LEVELS: SSM 32540 RL 52487 AHD BEARINGS SHOWN ARE MGA

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 FROSION 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.

PROPOSED WORKS LEGEND

<u>PROPOSED</u>

EXISTING CONTOUR -----51.0-----

PROPOSED BOUNDARY

FINISHED SURFACE LEVEL PROPOSED CONTOUR — · —51.0— · —

> KERB AND GUTTER BCC - A(BS)101M KERB ONLY BCC - A(BS)101M

DISH DRAIN BCC - A(BS)101M INTEGRAL KERB

BCC - A(BS)101M VEHICULAR CROSSING BCC - A(BS)103S

PRAM RAMP BCC - A(BS)104M

STORMWATER PIT, LINE & NUMBER

STORMWATER DOWNPIPE AND TRUNK LINE

STORMWATER JUNCTION PIT BCC-A(BS)107M

STORMWATER SURFACE INLET PIT BCC-A(BS)109M

STORMWATER HEADWALL

GRATED DRAIN

RETAINING WALL **─**□── GUARD FENCE

STREET SIGN

— /— /— FENCE LINE

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



В

Bar Scales RE-ISSUED FOR APPROVAL 28-05-15 ISSUED FOR APPROVAL 26-05-19 Date Description

100mm on Original

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Client

Project ΑH Designed ΑН Checked AMcL Approved MG

INTERNAL WORKS

60 WALLGROVE ROAD

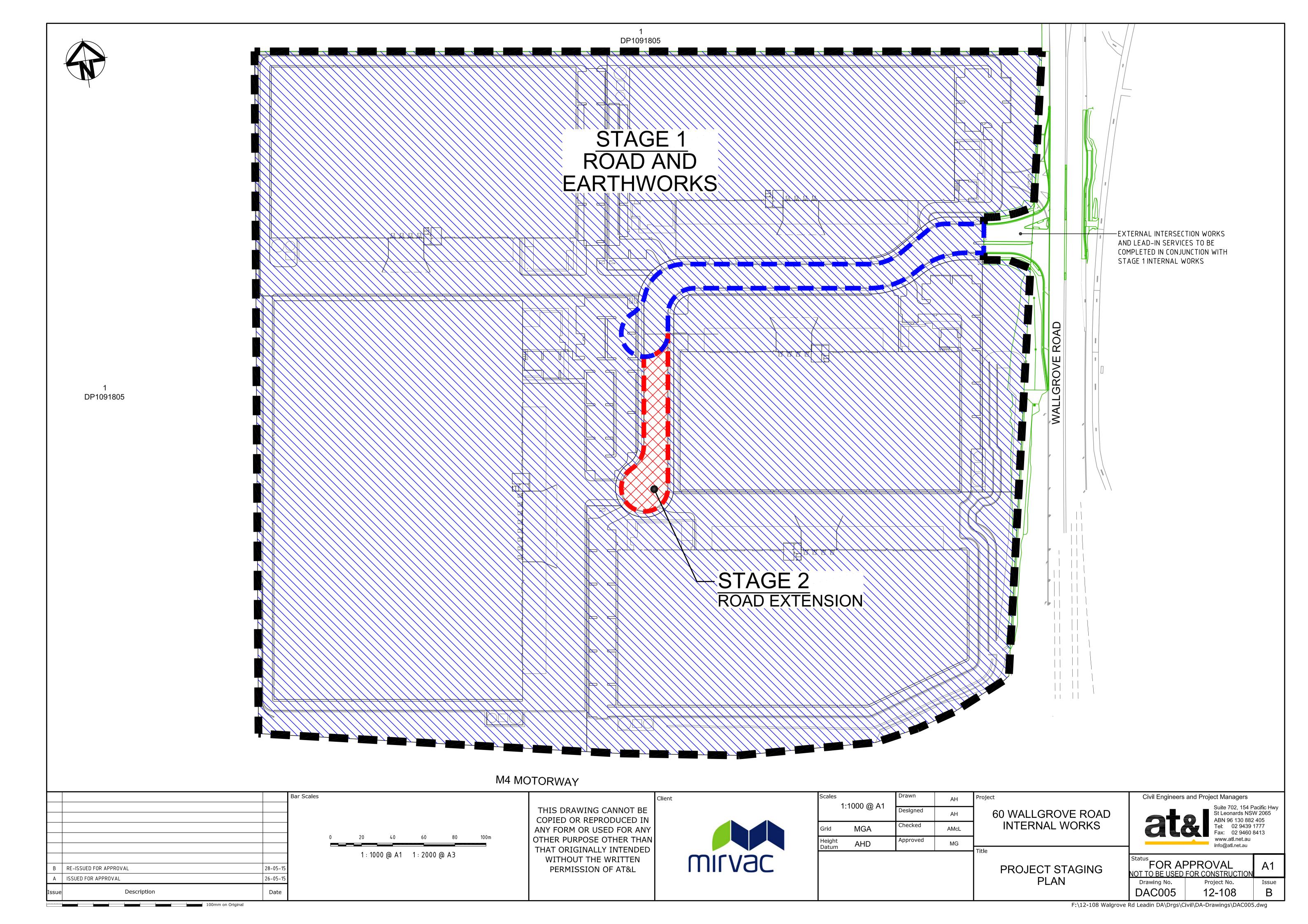
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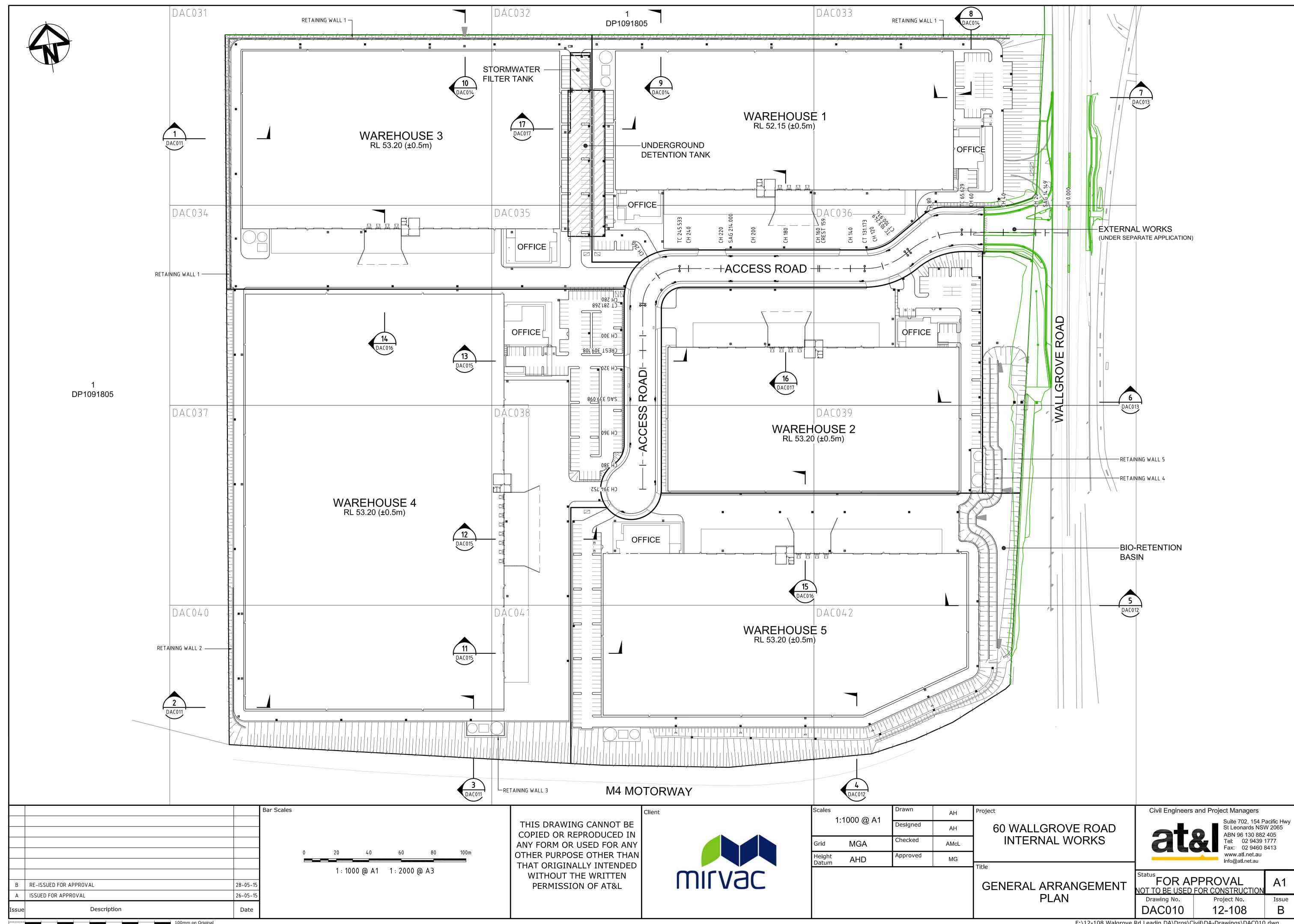
Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au

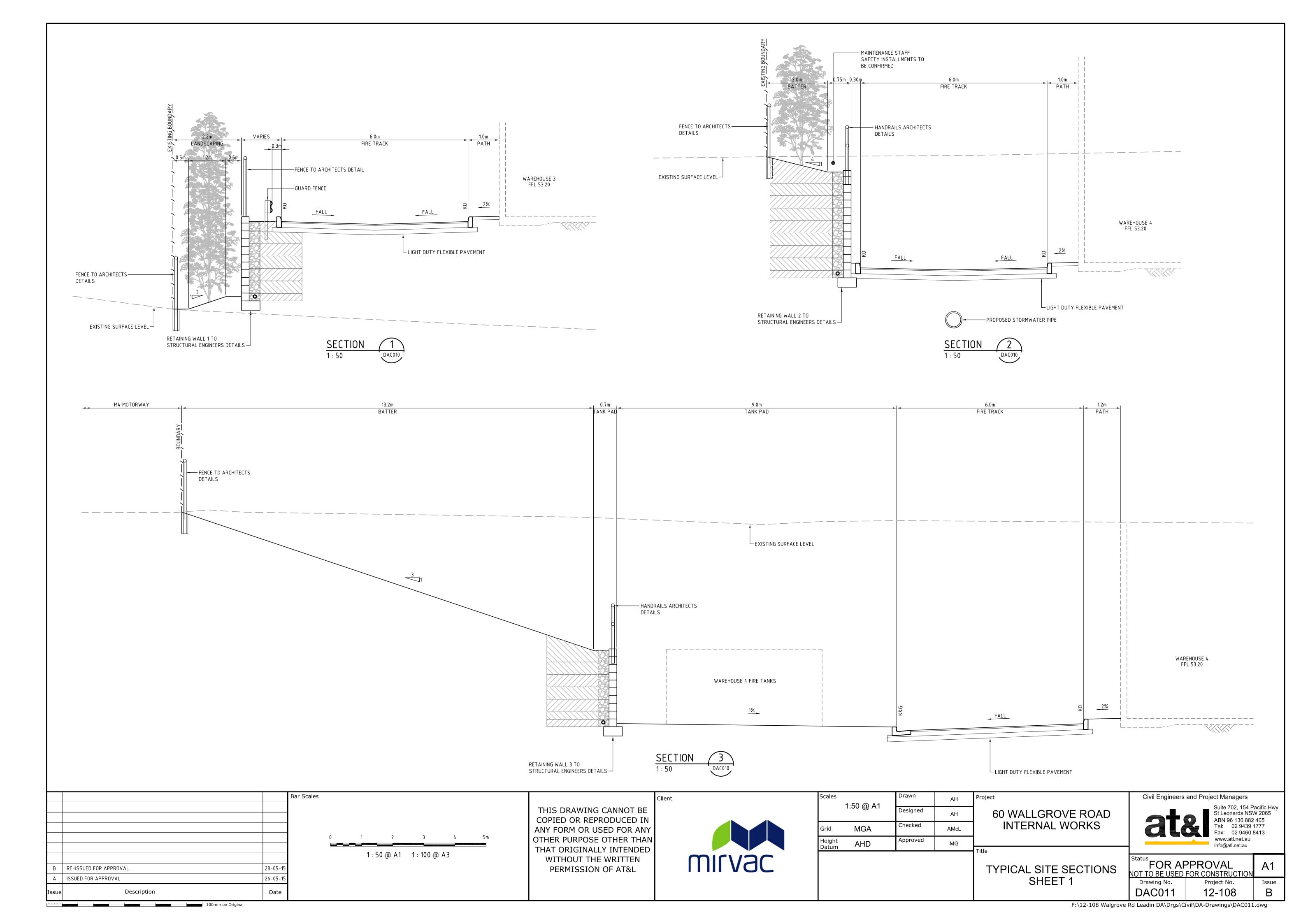
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Drawing No. Project No. Issue DAC002 12-108

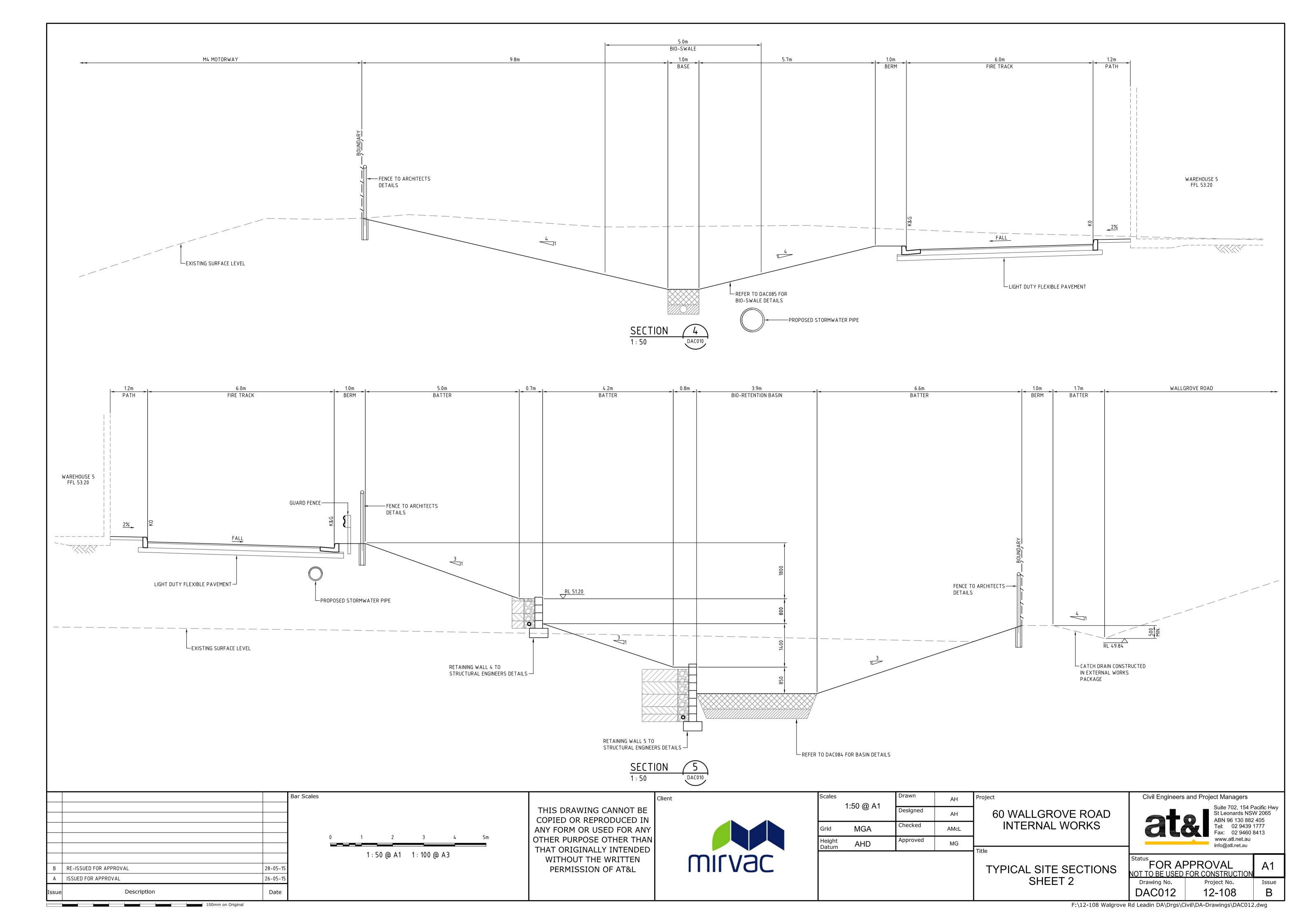
Civil Engineers and Project Managers

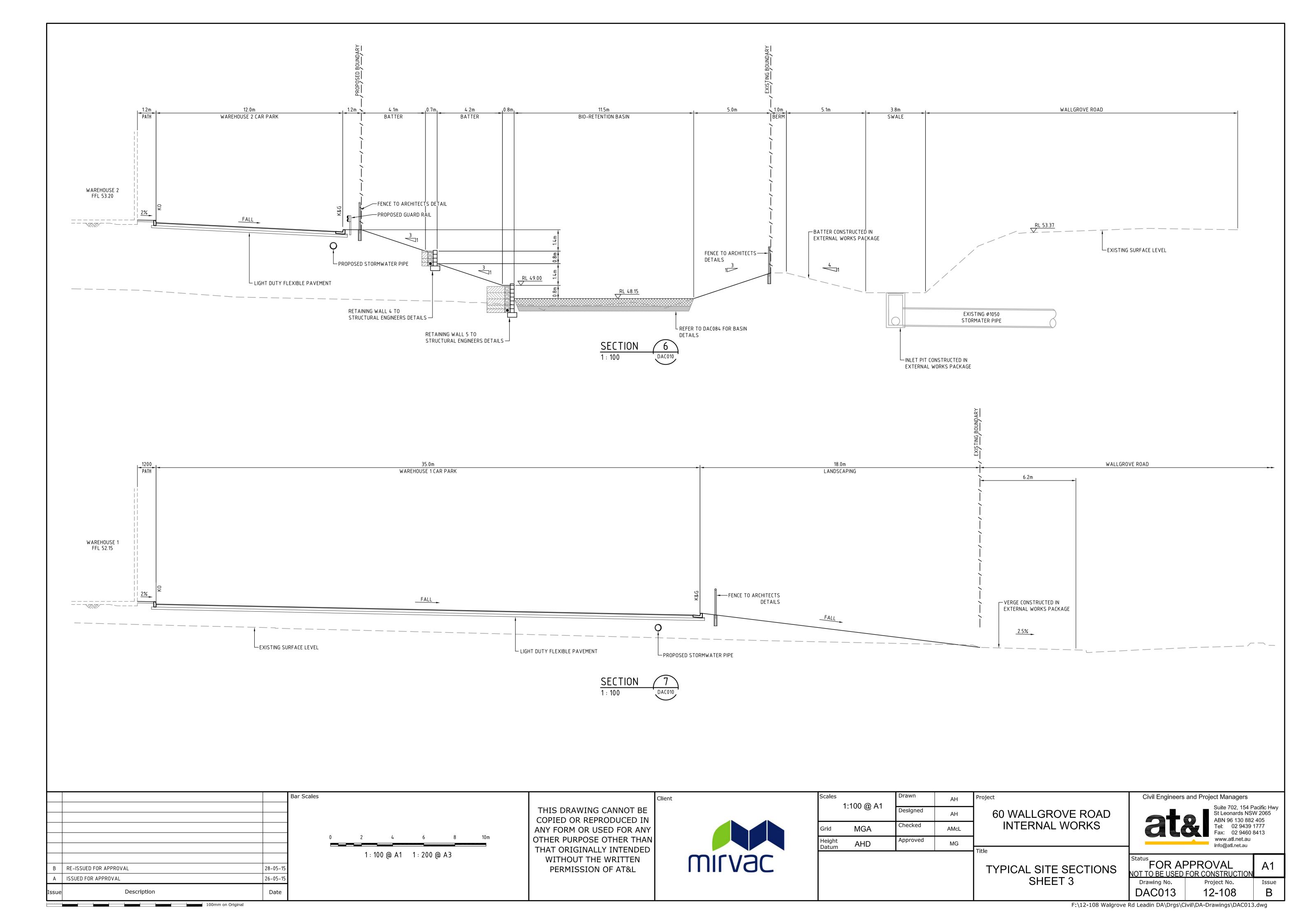
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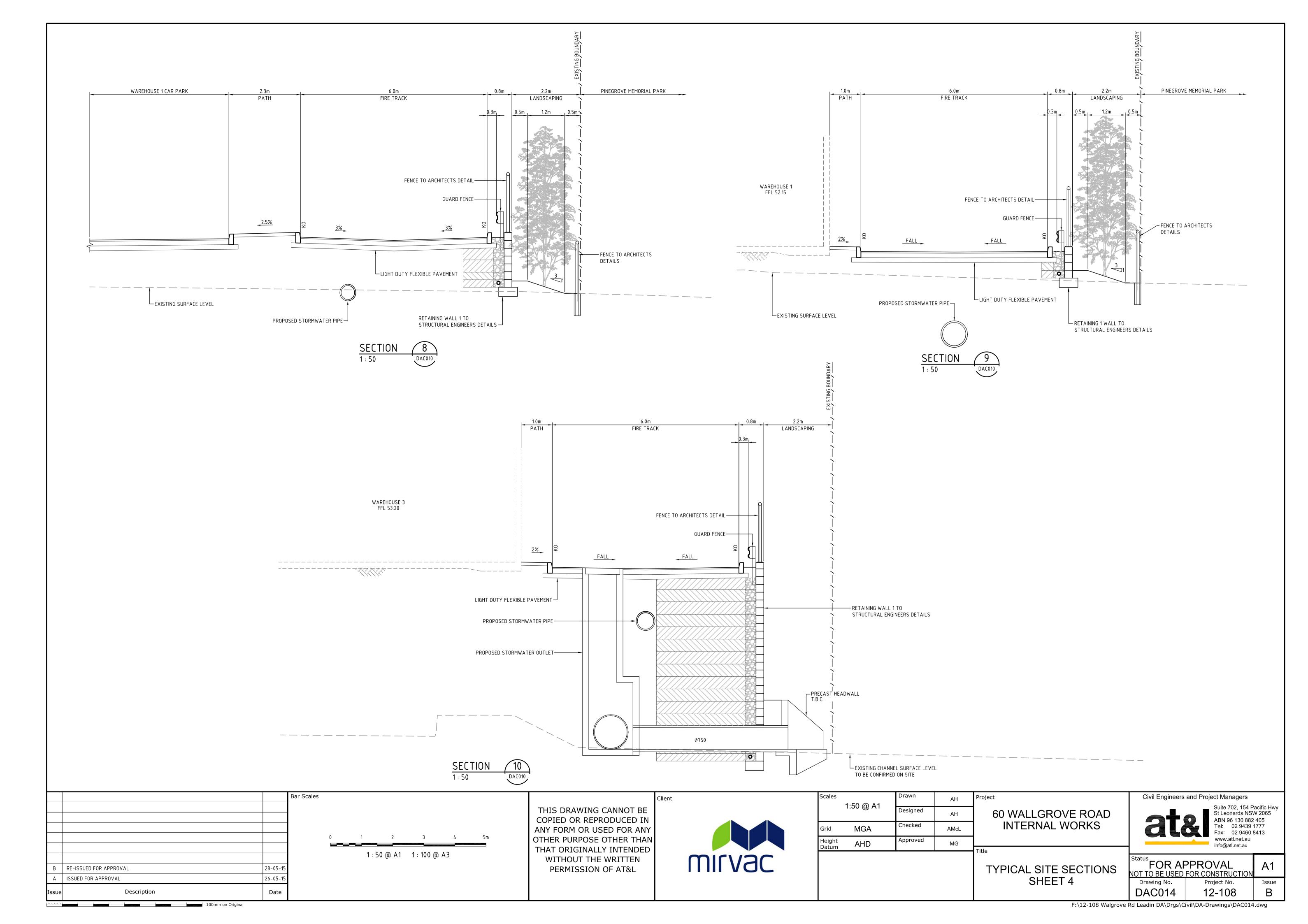


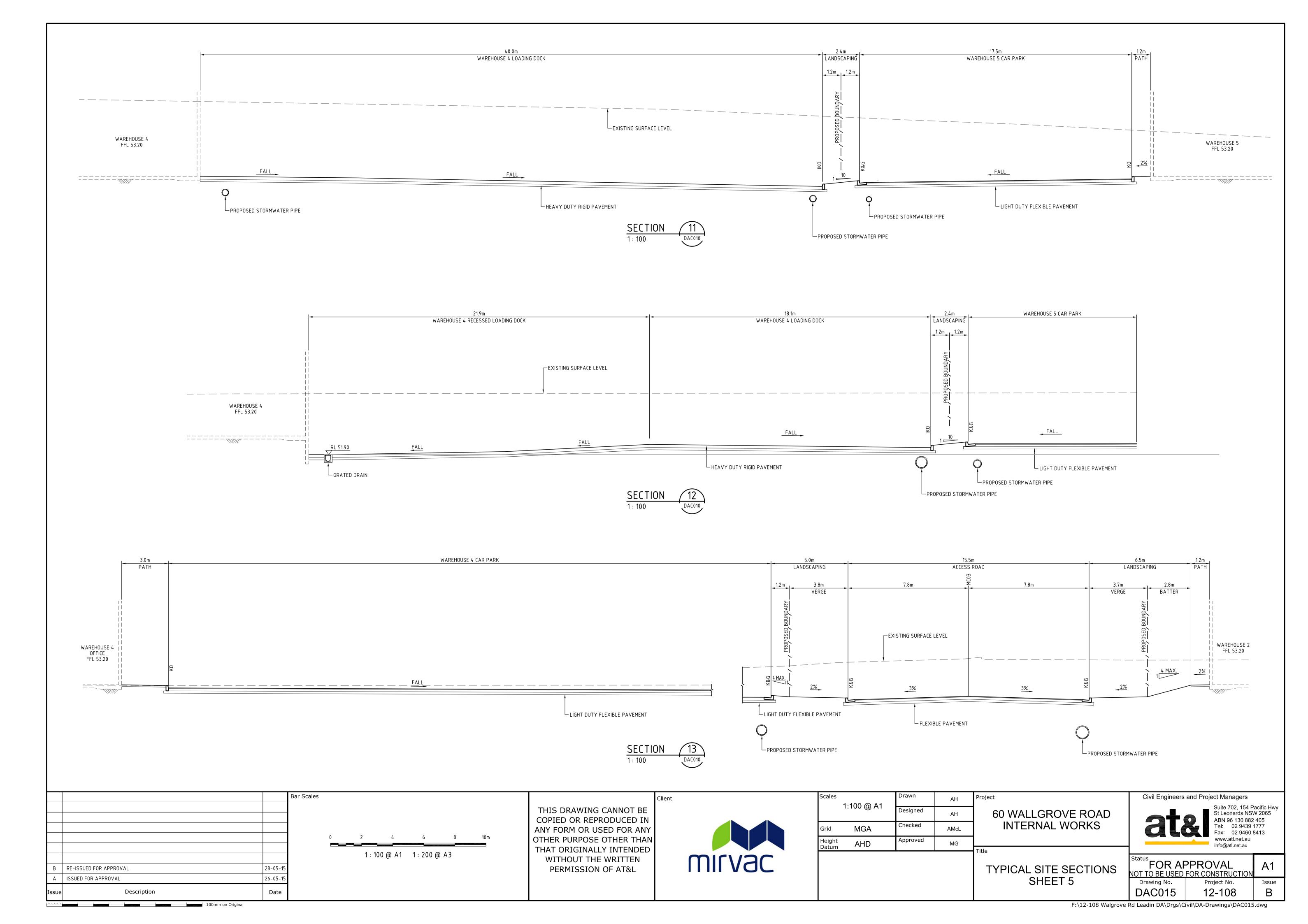


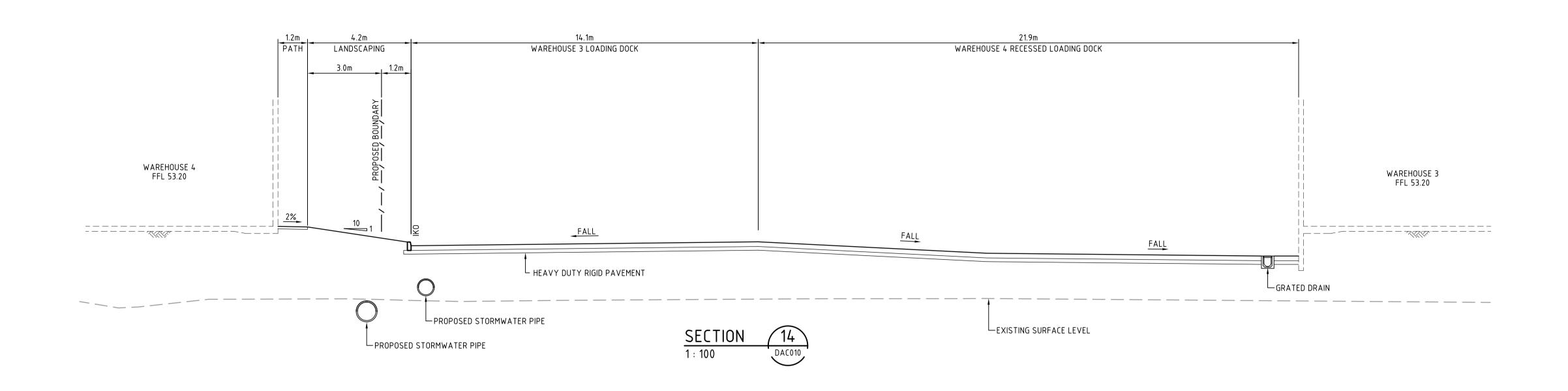


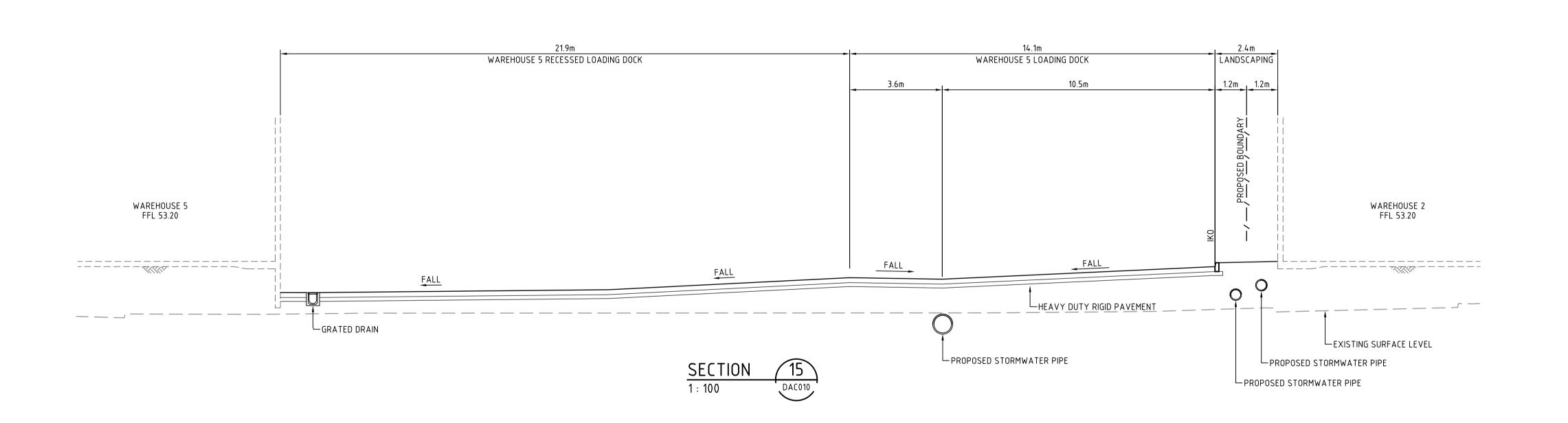












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			Grid MGA	MGA Checked AMcL	INTERNAL WORKS	Tel: 02 9439 1777 Fax: 02 9460 8413	
	0 2 4 6 8 10m	OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED	Height AHD	Approved	MG	T:Alo	www.atl.net.au info@atl.net.au
	1:100 @ A1 1:200 @ A3	WITHOUT THE WRITTEN PERMISSION OF AT&L MICHOLOGICALET INTENDED MICHOL				Title	FOR APPROVAL A1
B RE-ISSUED FOR APPROVAL	8–05–15	PERMISSION OF AT&L				TYPICAL SITE SECTIONS	NOT TO BE USED FOR CONSTRUCTION
A ISSUED FOR APPROVAL	6-05-15					SHEET 6	Drawing No. Project No. Issue
Issue Description	Date						DAC016 12-108 B
100mm on Original	•					F:\12-108 Walgrove	Rd Leadin DA\Drgs\Civil\DA-Drawings\DAC016.dwg

