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



			Bar Scales
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	
Е	RTS SUBMISSION	08-04-22	
D	RTS ISSUE	11-11-21	
С	RTS ISSUE	12-10-21	
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20	
Issue	Description	Date	
	100mm on Original		

LOCALITY PLAN

C	lient	Scales	Drawn LM	I	Project PROPOSED INDUSTRIAL	Civil Engineers and Project Managers	
		N.I.S.	Designed LN	1	DEVELOPMENT	Level 7, 153 Wall North Sydney NS	ker Street W 2060
		Grid MGA2020	Checked AT	-		ABN 96 130 882 Tel: 02 9439 1 Fax: 02 9923 1	405 777 1055
	FSR	Height AHD Datum	Approved			www.atl.net.au info@atl.net.au	000
		GC	A2020		COVER SHEET	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
		This drawing cannot be cop or used for any other purpo intended without the w	IED OR REPRODUCED IN A OSE OTHER THAN THAT OI /RITTEN PERMISSION OF A	NY FORM RIGINALLY \T&L		Project - Drawing No. 20-748-C1000	Issue G

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1000.dwg

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

G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Е	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
С	RTS ISSUE	12-10-21
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date
15500	Description	Date

20-748-C1071	DETENTION BASIN & POND DETAIL PLAN
20-748-C1072	DETENTION BASIN & POND SECTION
20-748-C1075	STORMWATER DRAINAGE DETAILS SHEET 1
20-748-C1076	STORMWATER DRAINAGE DETAILS SHEET 2
20-748-C1077	STORMWATER DRAINAGE DETAILS SHEET 3
20-748-C1078	STORMWATER DRAINAGE DETAILS SHEET 4
20.748.01080	
20-746-01080	RETAINING WALL GENERAL ARRANGEMENT FLAN SHEET T
20-748-C1085	RETAINING WALL PROFILES SHEET 1
20-748-C1086	RETAINING WALL PROFILES SHEET 2
20-748-C1087	RETAINING WALL PROFILES SHEET 3
20-748-C1088	RETAINING WALL PROFILES SHEET 4
20-748-C1089	RETAINING WALL PROFILES SHEET 5
20-748-C1101	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1
20-748-C1102	SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
20-748-C1103	SERVICES AND UTILITIES COORDINATION PLAN SHEET 3
20-748-C1104	SERVICES AND UTILITIES COORDINATION PLAN SHEET 4
20-748-C1105	SERVICES AND UTILITIES COORDINATION PLAN SHEET 5
20-748-C1106	SERVICES AND UTILITIES COORDINATION PLAN SHEET 6
20-748-C1107	SERVICES AND UTILITIES COORDINATION PLAN SHEET 7
20-748-C1201	EROSION AND SEDIMENT CONTROL PLAN
20-748-C1210	EROSION AND SEDIMENT CONTROL DETAILS
20-748-C1220	STORMWATER MANAGEMENT PLAN INTERIM ARRANGEMENT
20-748-C1311	VEHICLE TURNPATH PLAN SHEET 1
20-748-C1312	VEHICLE TURNPATH PLAN SHEET 2
20-748-C1313	VEHICLE TURNPATH PLAN SHEET 3
20-748-C1314	VEHICLE TURNPATH PLAN SHEET 4

Client	Scales N.T.S. Grid MGA2020	Drawn Designed Checked	LM LM AT	Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK	Civil Engineers and Project Managers Level 7, 153 Wa North Sydney N ABN 96 130 882 Tel: 02 9439 Fax: 02 0023	Ilker Street SW 2060 2 405 1777
ESR	Height AHD Datum	Approved			www.atl.net.au info@atl.net.au	
	GC	DA2020		DRAWING LIST	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
	THIS DRAWING CANNOT BE COP OR USED FOR ANY OTHER PURP INTENDED WITHOUT THE W	PIED OR REPRODUC OSE OTHER THAN 1 VRITTEN PERMISSIO	ED IN ANY FORM HAT ORIGINALLY N OF AT&L		Project - Drawing No. 20-748-C1001	Issue G

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1001.dwg

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 50m OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- 11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- 12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LANDPARTNERS, BEING

REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

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

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

NOTES

- 1. THE BOUNDARIES HAVE APPOROXIMATELY BEEN SURVEYED IN ACCORDANCE WITH CLAUSE 9 OF THE SURVEYING & SPATIAL INFORMATION **REGULATION 2017**
- 2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL SURVEY
- 3. ORIGIN OF COORDINATES HAS BEEN DERIVED USING GPS (GNSS) SURVEY
- FROM SSM33562 4. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM PM178274
- USING GPS (GNSS) SURVEY METHODS.
- 5. CONTOUR INTERVAL 0.5 m 6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
- 7. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED, ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR
- NEAR THE SITE 8. 8/.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX
- HEIGHT OF 7m 9. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS
- INDICATIVE ONLY 10. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

CONCRETE NOTES

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

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

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

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

17 N 20 250

- NOMINAL BAR SIZE IN mm LSPACING IN mm
- THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE
- REFERANCE NUMBER FOR FABRIC TO AS 1304.
- 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

LAP TWO WIRES

KERBING NOTES

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
- 2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- 3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- 4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- 5. 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.

WELDED JOINTS. IN HEIGHT

- APPROVAL BY AT & L.
- PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED. 1. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 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.
- . GYPSUM STABILIZED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
- 6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
- 7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
- 8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MIN.) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
- 10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
- 1. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
- 12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

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

100mm on Original

STORMWATER DRAINAGE NOTES

. STORMWATER DESIGN CRITERIA (A) AVERAGE RECURRENCE INTERVAL

- 1:100 YEARS MAJOR STORM (OVERLAND FLOW) 1:20 YEARS MINOR STORM (PIPED NETWORK) (B) RAINFALL INTENSITIES:
- TIME OF CONCENTRATION:5 MINUTES 1:100 YEARS= 219 mm/hr 1:20 YEARS= 167 mm/hr
- (C) RUNOFF COEFFICIENTS: ROOF AREAS: C 100 =1.0 EXTERNAL PAVEMENTS: C 100 =1.0
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O. ALL ROAD CROSSINGS TO BE CLASS '4' U.N.O.
- . PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT
- . EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.
- . ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE UPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m
- . PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
- (OR A DENSITY INDEX OF NOT LESS THAN 75) . ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY
- WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2
- . PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO . ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED
- FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.). WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR
- 12. GRATES AND COVERS SHALL CONFORM TO AS 3996.

9. PLACE ROCK RIP-RAP AS SHOWN.

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 h EPA REOUIREMENTS
- C. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004
- 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 FENCING
- 10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- 11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE. I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

Client

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

EROSION AND SEDIMEN NOTES CONTINU

STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHA PROVIDED AND MAINTAINED BY THE CONTRACTOR STAGES OF WORKS, INCLUDING AT COMPLETION O EARTHWORKS WHERE SHOWN ON AT&L DRAWINGS DIRECTED BY THE SUPERINTENDENT OR PENRITH ENGINEERS.

SEDIMENT AND EROSION CONTROLS ARE TO BE DE DOCUMENTED BY A SUITABLY QUALIFIED EXPERT E CONTRACTOR AND APPROVED AS PART OF THE CO ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO TH OF CONSTRUCTION. SUCH CONTROLS SHALL BE IN WITH THE RELEVANT REQUIREMENTS IN THE LATES MANAGING URBAN STORMWATER: SOILS AND CONS GUIDELINE (LANDCOM).

DEWATERING

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

DECOMMISSIONING / DE

DEMOLITION OF EXISTING DWELLING TO BE CON ACCORDANCE WITH THE PROVISIONS OF AS260 OF STRUCTURES BY CONTRACTORS EXPERIENC WORK AND HOLDING REQUIRED CURRENT PERM AS REQUIRED.

EXISTING INTERNALS FENCING, CATTLE YARDS, REDUNDANT STRUCTURES TO BE DEMOLISHED. APPROVED WASTE MANAGEMENT FACILITY.

DAM DECOMMISSIONING TO BE COMPLETED AS DECOMMISSIONING PROCEDURE AS CONTAINED CONSTRUCTION ENVIRONMENTAL MANAGEMEN

EXISTING UNDERGROUN NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOW DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INF AUTHORITY INFORMATION. THE SERVICE INFORMATIC ONLY TO SHOW THE APPROXIMATE POSITIONS OF AN AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCUR INDICATES THE PRESENCE OR ABSENCE OF SERVICE AND WILL ACCEPT NO LIABILITY FOR INACCURACIES INFORMATION SHOWN FROM ANY CAUSE WHATSOEV

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVA HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SEF 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.

Scales		Drawn	LM	Proj
	IN. I.S.	Designed	LM	
Grid	MGA2020	Checked	AT	
Height Datum	AHD	Approved		Title
	GE	A2020		

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

CONTROL	BIO-RETENTION FILTER MEDIA
D	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,:
TROUGHOUT ALL THE BULK IR WHERE IY COUNCIL'S	 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.
GNED AND GAGED BY THE STRUCTION COMMENCEMENT CCORDANCE VERSION OF THE RUCTION	3. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS: CLAY & SILT <3%
	THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3% (W/W) UNDER ANY CIRCUMSTANCES.
/ATERING JCTION	 4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS: a) ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3% (W/W) b) TOTAL NITROGEN (TN) CONTENT <900mg/kg c) ORTHOPHOSPHATE (PO4³) CONTENT - <30mg/kg WHERE PLANTS WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONCENTRATION
OLITION JCTED IN 2001 - DEMOLITION D IN THIS CLASS OF TS AND LICENSES	 SHOULD BE <20mg/kg. d) AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 - pH 5.5-7.5 (pH 1.5 IN WATER) e) ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOILS BLENDS" AS4419 <1.2ds/m f) DISPENSABILITY - AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS' AS4419 CATEGORY 1 OR 2 g) TEXTURE - LOAMY SAND AS PER AS4419
TILITIES AND OTHER	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.
R THE DAM /ITHIN THE PLAN (CEMP).	 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;
SERVICES	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.
IN THIS SET OF RMATION AND SERVICE HAS BEEN PREPARED KNOWN SERVICES	C) DRAINAGE LAYER B 10-20mm CLEAN GRAVEL WITH 2% VOLUME FINE STRAW AND 4-6% VOLUME HARDWOOD CHIPS.
ELY OR THEIR LOCATION THE SERVICES R.	INSTALLATION: FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.

ALL FINISHED SURFACE LEVELS ARE ±2000mm U.N.O.





Civil Engineers and Project Managers ^{ect} PROPOSED INDUSTRIAL Level 7, 153 Walker Street DEVELOPMENT North Sydney NSW 2060 ABN 96 130 882 405 WESTLINK Tel: 02 9439 1777 **KEMPS CREEK** Fax: 02 9923 1055 www.atl.net.au info@atl.net.au FOR APPROVAL A1 **GENERAL NOTES** NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. Issue 20-748-C1002

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000 INFRASTRUCTURE\20-748-C1002.dwg



Н	RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Е	RTS ISSUE	13-01-22
D	RTS ISSUE	11-11-21
С	RTS ISSUE	12-10-21
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date
	100mm on Original	



	Client	Scales	Drawn	LM	Proj
		1:2000	Designed	LM	
		Grid MGA2020	Checked	AT	
	FSR	Height AHD Datum AHD	Approved		Title
		GD	A2020		
		THIS DRAWING CANNOT BE COPI OR USED FOR ANY OTHER PURPC INTENDED WITHOUT THE WI	ED OR REPRODUCED SE OTHER THAN THA RITTEN PERMISSION) IN ANY FORM AT ORIGINALLY OF AT&L	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1005.dwg



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

100mm on Original

Client	Scales		Drawn	LM	Project PROPOSED INDUSTRIAL	Civil Engineers and Project Managers		
		AS SHOWN	Designed	LM	DEVELOPMENT	Level 7, 153 Walk North Sydney NSV	er Street W 2060	
	Grid	MGA2020	Checked	AT	WESTLINK	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10	405 777 055	
	FSR Heigh Datum	n AHD	Approved			www.atl.net.au info@atl.net.au		
		GDA2			TYPICAL ROAD	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
	THIS D OR USE II	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L			SECTIONS SHEET 1	Project - Drawing No. 20-748-C1010	Issue G	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1010.dwg





			Bar Scales							
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22								
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22								
Е	RTS SUBMISSION 08-04-22									
D	RTS ISSUE	11-11-21								
С	RTS ISSUE 12-10-21									
В	ISSUED FOR DEVELOPMENT APPLICATION 19-04-21									
А	ISSUED FOR DEVELOPMENT APPLICATION 22-12-20									
Issue	Description	Date								
	100mm on Original		•							



SCALE 1:20

	Client		Scales		Drawn	LM	Proje	
					AS SHOWN	Designed	LM]
				Grid	MGA2020	Checked	AT	
			FSR	Height Datum	AHD	Approved		Titla
				GD	A2020		line	
				THIS DRAV OR USED F INTEI	VING CANNOT BE COPIE OR ANY OTHER PURPO NDED WITHOUT THE WF	ED OR REPRODUCE SE OTHER THAN T RITTEN PERMISSIO	ED IN ANY FORM HAT ORIGINALLY N OF AT&L	

	Civil Engineers and Project Managers		
DEVELOPMENT WESTLINK KEMPS CREEK	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	er Street V 2060 05 77 055	
e	info@atl.net.au		
TYPICAL ROAD	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
SECTIONS SHEET 2	Project - Drawing No. 20-748-C1011	Issue G	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1011.dwg



	Client	Scales		Drawn	LM	Project
			1.200 @ AT	Designed	LM	
		Grid	MGA2020	Checked	AT	
	FSR	Height Datum	AHD	Approved		Title
			GD	42020		nue
		THIS DRAV OR USED F INTEI	VING CANNOT BE COPIE OR ANY OTHER PURPOS NDED WITHOUT THE WR	D OR REPRODUCE SE OTHER THAN TH ITTEN PERMISSIO	ED IN ANY FORM HAT ORIGINALLY N OF AT&L	

^{₽ct} PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	er Street W 2060 405 777 055
	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
SHEET 3	Project - Drawing No. 20-748-C1012	Issue D

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1012.dwg



SECTION 1 : 200

3 C3005

		I	Bar Scales					
			0		5	10	15	20m
D	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22			1 : 200 @ A1 1 : 400 @ A3			
С	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22						
В	RTS SUBMISSION	08-04-22						
А	ISSUED FOR DEVELOPMENT APPLICATION	11-11-21						
Issue	Description	Date						

100mm on Original

111





	Civil Engineers and Project Managers				
DEVELOPMENT WESTLINK KEMPS CREEK	ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au				
2	Info@ati.het.au				
TYPICAL ROAD	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1			
SECTIONS	Project - Drawing No.	Issue			
SHEET 4	20-748-C1013	D			

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1013.dwg

	200 300 100 1	20 10 20 10 10 10			
Image: Source of the second	Bar Scales 0 1 2 3 4 5m 1 : 50 @ A1 1 : 100 @ A3	Client ESR	Scales Drawn LM Proje AS SHOWN Designed LM Image: constraint of the state of the sta	ect PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK TYPICAL DETAILS SHEET 1	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au Info@atl.net.au Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. Issue 20-748-C1015 B





			A C1021 B C1021 C C1021 C C1021 C C1021 C C1021 B C1021 C C1021 C C1021 C C1021 C C1021 C C C C C C C C C C C C C
H G F E D	RE-ISSUED FOR DEVELOPMENT APPLICATION RE-ISSUED FOR DEVELOPMENT APPLICATION RE-ISSUED FOR DEVELOPMENT APPLICATION RTS SUBMISSION RTS ISSUE	05-12-22 19-10-22 29-08-22 08-04-22 11-11-21	0 30 60 90 120 150m
C B A	RTS ISSUE ISSUED FOR DEVELOPMENT APPLICATION ISSUED FOR DEVELOPMENT APPLICATION	12-10-21 19-04-21 22-12-20	1 : 1500 @ A1 1 : 3000 @ A3
Issue	Description	Date	

100mm on Original





Description

100mm on Original





	Client	Scales	Drawn LM	Proje
		1:100	Designed LM]
		Grid MGA2020	Checked AT	
	FSR	Height AHD Datum AHD	Approved	Titlo
		GD	A2020	
		THIS DRAWING CANNOT BE COPIE OR USED FOR ANY OTHER PURPO INTENDED WITHOUT THE WF	ED OR REPRODUCED IN ANY FORM SE OTHER THAN THAT ORIGINALL' RITTEN PERMISSION OF AT&L	l Y

ALDINGTON / ABBOTTS ROAD

NOTE:

RETAINING WALL DETAILS ARE INDICATIVE ONLY. FINAL DESIGN SUBJECT TO GEOTECHNICAL, LANDSCAPE AND STRUCTURAL ENGINEERS DETAILS.









			Bar Scales	Client	Scales	4 400	Drawn	LM	Pro
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22				1 : 100	Designed	LM	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22			Grid	MGA2020	Checked	AT	
Е	RTS SUBMISSION	08-04-22	0 2 4 6 8 10m		Height		Approved	+	1
D	RTS ISSUE	11-11-21			Datum	AHD			Title
С	RTS ISSUE	12-10-21	1 : 100 @ A1 1 : 200 @ A3			Class			
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21				GL	DA2020		1
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20			םח פועד		ובה אם מבמסאהו וו		1
Issu	Description	Date			OR USED	FOR ANY OTHER PURP	OSE OTHER THAN RITTEN PERMISSI	THAT ORIGINALLY	





<u>NOTE:</u>

RETAINING WALL DETAILS ARE INDICATIVE ONLY. FINAL DESIGN SUBJECT TO GEOTECHNICAL, LANDSCAPE AND STRUCTURAL ENGINEERS DETAILS.



	Civil Engineers and Project Managers	
DEVELOPMENT WESTLINK KEMPS CREEK	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	er Street W 2060 105 777 055
BOUNDARY INTERFACE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
SECTIONS	Project - Drawing No.	Issue
SHEET 2	20-748-C1022	G

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1022.dwg



SECTION	H
1 : 100	C1020

	i					
		Bar Scales	Client	Scales Drawn _{LM}		Civil Engineers and Project Managers
				AS SHOWN Designed LM	DEVELOPMENT	Level 7, 153 Walker Street North Sydney NSW 2060
				Grid MGA2020 Checked AT	WESTLINK	ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055
		0 2 4 6 8 10m	FSR	Height AHD Approved Datum		www.atl.net.au info@atl.net.au
C RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	1 : 100 @ A1 1 : 200 @ A3			BOUNDARY	
B RTS SUBMISSION	08-04-22			GDA2020	INTERFACE	
A ISSUED FOR DEVELOPMENT APPLICATION	19-04-21			THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM	SECTIONS	Project - Drawing No. Issue
Issue Description	Date			OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	SHEET 3	20-748-C1023 C
100m	nm on Original				F:\20-748 ESR Mamre\6.0 Drgs\Civil\Fir	nal\SSDA\1000_INFRASTRUCTURE\20-748-C1023.dwg



<u>NOTE:</u>

RETAINING WALL DETAILS ARE INDICATIVE ONLY. FINAL DESIGN SUBJECT TO GEOTECHNICAL, LANDSCAPE AND STRUCTURAL ENGINEERS DETAILS.

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1023.dwg





		Bar Scales			Client		Scales		Drawn	LM	Proj
								AS SHOWN	Designed	LM	
				10			Grid	MGA2020	Checked	AT	
			6 8	10m		CD	Height		Approved	· · · · · · · · · · · · · · · · · · ·	1
D	RE-ISSUED FOR DEVELOPMENT APPLICATION 05-12-22					SK I	Datum			/	Title
С	RE-ISSUED FOR DEVELOPMENT APPLICATION 19-10-22	1:100@) A1 1:200 @ A3					200			1
В	RTS SUBMISSION 08-04-22	0 10 24	0 30 40 5	50m				GD/	42020		
А	ISSUED FOR DEVELOPMENT APPLICATION 19-04-21										1
Issue	Description Date	1 : 500 @	A1 1 : 1000 @ A3				OR USED F	FOR ANY OTHER PURPO	SE OTHER THAN TH	AT ORIGINALLY	
	100mm on Original										



F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1024.dwg





	E =A+C+D	D	С	В	А
RESIDUAL LOT FILL TOTAL I (cu.m) (cu	BALANCE (cu.m)	NET FILL (cu.m)	NET CUT (cu.m)	EXCAVATION OF EXISTING CREEKS AND DAMS (cu.m) REFER NOTE No.2	EXISTING TOPSOIL STRIPPING VOLUME (cu.m) REFER NOTE No.1
213.100 4	-212,610	475,790	-728,890	-10.467	-40.490

			Bar Scales						
н	RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22							
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22							
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22							
Е	RTS SUBMISSION	08-04-22		0	30	60	90	120	150m
D	RTS ISSUE	11-11-21					1 0000		
С	RTS ISSUE	12-10-21			1:1	500 @ A1	1:3000 @	v) A3	
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21							
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20							
Issue	Description	Date							

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1033.dwg





CD	A O	00	0
GD	A2	υz	U



LOT FFL 65.0	1 20					
A1-1					. — — — — — — —	
	· · · · · · · · · · · · · · · · · · ·					
(CA-11)				CA-10		
CA-11 ABBOTTS ROAD		Ø825 / ⁶ 0	AA-15		Ø1800	SO SO SO SO SO SO SO SO SO SO SO SO SO S
CA-11 ABBOTTS ROAD		Ø825 Ø A-13				



F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1043.dwg



100mm on Original

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1044.dwg

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1045.dwg

	Г			
		LEGEND:		
			EXISTING BOUNDARY	
		·· · ·	EXISTING BOUNDARY TO BE F	REMOVED
		e e	EXISTING ELECTRICITY	
			PROPOSED BOUNDARY	
			PROPOSED EASEMENT ALDINGTON / ABBOTTS RD UF WORKS. (NOT PART OF THIS S	GRADE
			OF WORKS).	
			PROPOSED RETAINING WALL	
		····70.00···_··	PROPOSED MAJOR CONTOUR	
		····-70.20····_··-	PROPOSED MINOR CONTOUR	
			PROPOSED BATTER CUT BATTER 1(V):3(H) FILL BATTER 1(V):5(H) U.N.O	
		K&G	PROPOSED KERB AND GUTTE	R
			PROPOSED DRIVEWAY LAYBA	NCK
		\bigwedge	PROPOSED KERB RAMP	
	``		LIMIT OF WORKS	
		< <	PROPOSED CATCH DRAIN	
			JUNCTION PIT	
			SURFACE INLET PIT	
			PROPOSED STORMWATER KE INLET PIT WITH LINTEL	RB
				PE
			PROPOSED STORMWATER LI	NF
stop			PROPOSED UPSTREAM STOR CATCHMENT DIVERSION LINE	MWATER
	L.			
		ALL LEVELS /	ARE ±1000mm/U	.N.O
Г				
	FAVL			
		PROPOSED INDUST 70mm THICKNESS	<u>RIAL ROAD</u> 3 AC14 (C320) ON	
		7mm THICKNESS 150mm THICKNESS	S PRIME SEAL ON S BASECOURSE (DGB20) ON	
		175mm THICKNESS 300mm THICKNESS	S SUB-BASECOURSE (DGS40) ON S SELECT SANDSTONE FILL (CBF	R 35%) ON
		COMPACTE	DUNDABOUT PAVEMENT	
		75mm THICKNESS 7mm THICKNESS	S AC14 (AI5E) ON S PRIME SEAL ON	
		150mm THICKNESS 175mm THICKNESS	S BASECOURSE (DGB20) ON S SUB-BASECOURSE (DGS40) ON	1
		300mm THICKNESS COMPACTE	S SELECT SANDSTONE FILL (CBF D SUBGRADE MIN CBR 3%	R 35%) ON
		PROPOSED FOOTPA 125mm THICKNESS	<u>TH PAVEMENT</u> S CONCRETE WITH SL72 (40mm ⊺	OP COVER)
86.00		30mm THICKNESS STANDARD	SAND BEDDING (REFER TO PC DWG SD1001 FOR JOINTING DE	C TAILS)
		PROPOSED INDUSTR	RIAL DRIVEWAY CONCRETE N32, 2 x SL82 MESH	TOP AND
		BOTTOM (40 30mm SAND (REFI	0mm COVER) ON ER TO PCC COUNCIL STANDARE) SPEC 7.4)
L				
/				
		Civil Engineers and	l Project Managers	
DEVELOPMENT			Level 7, 153 Walk North Svdnev NS	er Street N 2060
WESTLINK			ABN 96 130 882 4 Tel: 02 9439 1	405 777
KEMPS CREEK			Fax: 02 9923 10 www.atl.net.au	055
RUADIVIORKO VVID		Status	info@atl.net.au	
STORMWATER DRAINAG	iΕ	FOR A	PPROVAL	A1
PLAN		Project - Drawing N	$\frac{1}{10} \frac{1}{10} \frac$	Issue
SHEET 6		20-748-C104	6	С

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1046.dwg

	[]			· · · · · · · · · · · · · · · · · · ·

Keyplan	Client	Scales	Drawn LM	Proje
		1 : 250	Designed LM	
SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6		Grid MGA2020	Checked AT	
	FSR	Height AHD Datum AHD	Approved	Titlo
		GD	A2020	The
		THIS DRAWING CANNOT BE COPI OR USED FOR ANY OTHER PURPO INTENDED WITHOUT THE WI	ED OR REPRODUCED IN ANY FOR ISE OTHER THAN THAT ORIGINAL RITTEN PERMISSION OF AT&L	M LY

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1047.dwg

	I FGEND [.]	
		EXISTING BOUNDARY
		EXISTING BOUNDARY TO BE REMOVED
	e e	
		ALDINGTON / ABBOTTS RD LIPGRADE
		WORKS. (NOT PART OF THIS SCOPE OF WORKS).
		INDICATIVE POND LAYOUT
		PROPOSED RETAINING WALL
	<u> </u>	PROPOSED MAJOR CONTOUR
	—···—···70.20····—··—	PROPOSED MINOR CONTOUR
		PROPOSED BATTER CUT BATTER 1(V):3(H) FILL BATTER 1(V):5(H) U.N.O
	K&G	PROPOSED KERB AND GUTTER
		PROPOSED DRIVEWAY LAYBACK TO PCC SPECIFICATION
	\frown	PROPOSED KERB RAMP
		LIMIT OF WORKS
	< <	PROPOSED CATCH DRAIN
	$\overline{\mathbf{N}}$	PROPOSED STORMWATER
		SURFACE INLET PIT
		PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
		PROPOSED STORMWATER PIPE WITH HEADWALL
		PROPOSED STORMWATER LINE
		PROPOSED UPSTREAM STORMWATER CATCHMENT DIVERSION LINE
	ALL LEVELS	ARE ±1000mm U.N.O
ΡΔ\/		
	70mm THICKNESS	S AC14 (C320) ON
	7mm THICKNESS 150mm THICKNESS	S PRIME SEAL ON S BASECOURSE (DGB20) ON
	175mm THICKNESS 300mm THICKNESS COMPACTE	S SUB-BASECOURSE (DGS40) ON S SELECT SANDSTONE FILL (CBR 35%) ON D SUBGRADE MIN CBR 3%
	CUL-DE-SAC AND RC	DUNDABOUT PAVEMENT
	7mm THICKNESS	S PRIME SEAL ON
	175mm THICKNESS	SUB-BASECOURSE (DGS40) ON
	300mm THICKNESS	SELECT SANDSTONE FILL (CBR 35%) ON D SUBGRADE MIN CBR 3%
	COMPACTE <u>PROPOSED FOOTPA</u> 125mm THICKNESS 30mm THICKNESS STANDARD	ATH PAVEMENT S CONCRETE WITH SL72 (40mm TOP COVE S SAND BEDDING (REFER TO PCC DWG SD1001 FOR JOINTING DETAILS)
	COMPACTE PROPOSED FOOTPA 125mm THICKNESS 30mm THICKNESS STANDARD PROPOSED INDUSTI 225mm THICKNESS BOTTOM (4)	ATH PAVEMENT S CONCRETE WITH SL72 (40mm TOP COVE S SAND BEDDING (REFER TO PCC DWG SD1001 FOR JOINTING DETAILS) RIAL DRIVEWAY S CONCRETE N32, 2 x SL82 MESH TOP ANE 0mm COVER) ON

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1048.dwg

	INTERSECTION ALDINGTON ROAD						I P = 52 94	M.O.= 0.345
HORIZONTAL VC LENGTH				2.2%		<	60 K)m VC =13.1
GRADE Datum RL45	<			2.270				><
PROPOSED SURFACE LEVEL	50.747	51.186	51.624	52 063	52.282	52.540	F3 785	007.00
EXISTING SURFACE LEVEL	50.747	51.134	51.591	52 042	52.277	52.502	10 C3	102.30
CHAINAGE	0.000	20.000	40.000	60 000	70.000	80.000		000.001
						1		

			Bar Scales						
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22		0	2	4	6	ş	8
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22			2	-	0		
Е	RTS SUBMISSION	08-04-22			1:	100 @ A1	1 : 200	@ A3	
D	RTS ISSUE	11-11-21		0	10	20	20	<u> </u>	
С	RTS ISSUE	12-10-21				20	30	4	
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21			1:5	500 @ A1	1:100) @ A3	
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20				e e		0	
Issue	Description	Date							
	100	mm on Original	•						

10m

50m

120.000	130.000	140.000	160.000	180.000	200.000		220.000	240.000		260.000
		<u>ABBC</u>	OTTS ROAD (MC sc	01) LONGITUDI ALE 1:500 HORI. 1:100 VERT.	NAL SECTION					
			Client			Scales	1 : 100 V 1 : 500 H	Drawn Designed	LM	Proj
					SR	Grid Height Datum	MGA2020 AHD	Checked Approved	AT	_
						THIS DRA OR USED F INTE	WING CANNOT BE C FOR ANY OTHER PUP INDED WITHOUT THE	DA2020 OPIED OR REPRODUC RPOSE OTHER THAN E WRITTEN PERMISSI	CED IN ANY FOF THAT ORIGINAL ON OF AT&L	RM LLY

280000 57.457 (5.7.28 280000 55.41 (6.1080 300000 56.841 (6.1080 300000 56.841 (6.1080 300000 56.4220 31.401 (5.126 31.401 (5.126 31.401 (5.126 31.401 (5.126 31.401 (5.126 31.401 (5.126) (5.126) 31.401 (5.126) (5.126) 31.401 (5.126) (5.126) 31.401 (5.126) (5.126) 31.401 (5.126) (5.126) 31.401 (5.126) (5.126) (5.126) 31.401 (5.126) (
280000 57.497 63.788 280000 57.497 63.788 300000 58.841 64.080 3200000 59.765 64.230 3200000 61.366 64.366 3300000 60.135 64.360 61.360 64.385 35.000 60.135 64.430 35.000 60.135 64.430						
280.000 57.497 63.788 280.000 57.497 63.788 300.000 58.841 64.080 300.000 58.841 64.080 300.000 58.841 64.080 300.000 58.841 64.080 300.000 58.841 64.080 300.000 58.841 64.080 300.000 58.841 64.080 300.000 64.220 %10 340.000 61.401 64.360 345.007 61.980 64.395 350.000 60.132 64.430						R34
280.000 57.497 63.788 280.000 57.497 63.788 300.000 58.841 64.080 300.000 58.841 64.080 300.000 58.841 64.080 320.000 59.705 64.220 320.000 59.705 64.360 345.007 61.980 64.360 350.000 60.132 64.430			0.7%			
280.000 57.497 63.788 280.000 57.497 63.788 300.000 58.841 64.080 320.000 59.705 64.220 340.000 61.401 64.360 345.007 61.980 64.395 350.000 60.132 64.430						
280.000 57.497 280.000 57.497 300.000 58.841 320.000 58.841 320.000 59.705 340.000 61.401 345.007 61.980 350.000 60.132	63.788	64.080	64.220	64.360	64.395	64.430
280.000 300.000 320.000 340.000 7P 345.007 350.000	57.497	58.841	59.705	61.401	61.980	60.132
	280.000	300.000	320.000	340.000	345.007	350.000
		1	1	1	L L	:

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1050.dwg

			Bar Scales
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22	
Е	RTS SUBMISSION	08-04-22	
D	RTS ISSUE	11-11-21	
С	RTS ISSUE	12-10-21	
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20	
Issue	Description	Date	
	100mm on Original		

0	2	4	6	8	10m
	1:	100 @ A1	1 : 200 @) A3	
0	10	20	30	40	50m
	1:5	00 @ A1	1 : 1000 @	D) A3	

														``\`\\ \\\		
			R34												R37	
VC LENGTH GRADE									0.7%							
Datum RL54																
PROPOSED SURFACE LEVEL	64.430	64.500	64.640	64.769 64.780	64.920	65.060	65.200	65.341	65.481	65.621	65.761	65.901	66.041	66.119	66.181 66.192	
EXISTING SURFACE LEVEL	60.132	60.158	59.995	60.587 60.786	62.889	64.075	64.184	66.443	68.263	70.615	72.817	72.689	69.880	68.075	66.699 66.459	
CHAINAGE	350.000	360.000	380.000	398.414 400.000	420.000	440.000	460.000	480.000	500.000	520.000	540.000	560.000	580.000	591.229	600.000 601.562	
1		I		ЧЦ	I I			1		I				L L	L L	

ABBOTTS ROAD (MC01) LONGITUDINAL SECTION - CONTINUED SCALE 1:500 HORI. 1:100 VERT.

	Client		Scales	1 : 100 V	Drawn	LM	Proj
				1:500 H	Designed	LM	
		2222	Grid	MGA2020	Checked	AT	
		FSR	Height Datum	AHD	Approved		Titlo
							The
			OR USED FO	DED WITHOUT THE WE	ED OR REPRODUCE SE OTHER THAN TH RITTEN PERMISSIO	AT ORIGINALLY	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1051.dwg

		ABBOTTS ROAD	I.P.= 63.682	SAG W.U U.122										I.P.= 67.443 M.O.= 0.084		
HORIZONTAL	-	< R34														
VC LENGTH		-	 20n K= 	4.1 >									<	K=53.6		~~~~
GRADE	-	-3%	>	<					1.9%					><		
Datum RL54																
PROPOSED SURFACE LEVEL	64.582	63.982	63.836 63.804	63.798 63.870	64.246	64.622	64.999	65.375	65.751	66.127	66.503	66.879	67.292	67.527	67.780	68.343
EXISTING SURFACE LEVEL	60.077	62.669	62.811 62.897	62.928 62.979 62.979	63.250	63.680	63.862	64.407	66.553	68.375	060.69	68.680	71.582	72.608	73.643	76.820
CHAINAGE	0.000	20.000	26.704 30.000	32.294 40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	000 000	230.000	240.000	260.000
L		I	ЦЦ		1		I			1	1	1	1			Ц. Н

		1							
			Bar Scales						
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22		0	2	Δ	6	8	10m
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22			2	-	0	0	
Е	RTS SUBMISSION	08-04-22			1 : 100 @ A1 1 : 200 @ A3				
D	RTS ISSUE	11-11-21		0	10	20	30	40	50m
С	RTS ISSUE	12-10-21			10	20	50	40	5011
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21			1:5	00 @ A1	1 : 1000 @) A3	
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20				U	<u> </u>		
Issue	Description	Date							
	100mm on Original								

	Client	Scales	1 : 100 V	Drawn	LM	Pro
			1:500 H	Designed	LM	
		Grid	MGA2020	Checked	AT	1
		Height Datum	AHD	Approved		
				00000	4	
			G	JA2020		F
		THIS DRA OR USED I INTE	WING CANNOT BE CC FOR ANY OTHER PUR ENDED WITHOUT THE	PIED OR REPRODUC POSE OTHER THAN WRITTEN PERMISSI	ED IN ANY FORM THAT ORIGINALLY ON OF AT&L	1

PRIVATE ACCESS ROAD (MC04) LONGITUDINAL SECTION SCALE 1:500 HORI. 1:100 VERT.

		/	
/			
R37			
>			
%			
.653	.943	.477	
68	68.	69	
910	526	.791	
77.	78.	79.	
338	000	789	
270.	280.0	297.	
Ц	:		

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1052.dwg

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

	Client		Scales	1 - 0000	Diawii	LM	Pro
				1:2000	Designed	LM	
		20220	Grid	MGA2020	Checked	AT	
		FSR	Height Datum	AHD	Approved		
				GD	A2020		
			THIS DRAV OR USED F INTEI	VING CANNOT BE COPIE OR ANY OTHER PURPO NDED WITHOUT THE WF	ED OR REPRODUC SE OTHER THAN T RITTEN PERMISSIC	ED IN ANY FORM HAT ORIGINALLY N OF AT&L	

Cheffe	1 . 2000		LIVI	
	1.2000	Designed	LM	
	Grid MGA2020	Checked	AT	
FSR	Height AHD Datum AHD	Approved		
	ØG	DA2020		
	THIS DRAWING CANNOT BE CO OR USED FOR ANY OTHER PUR INTENDED WITHOUT THE	PIED OR REPRODUCE POSE OTHER THAN TI WRITTEN PERMISSIO	ED IN ANY FORM HAT ORIGINALLY N OF AT&L	

100mm on Original

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1065.dwg

	Client	Scales	4 - 050	Drawn	LM	Proje
			1:250	Designed	LM	
		Grid	MGA2020	Checked	AT	
	FSR	Height Datum	AHD	Approved		
			GD	A2020		The
		THIS DRAV OR USED F INTEI	WING CANNOT BE COPIE FOR ANY OTHER PURPOS NDED WITHOUT THE WR	ED OR REPRODUCE SE OTHER THAN TH RITTEN PERMISSION	ED IN ANY FORM HAT ORIGINALLY N OF AT&L	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1071.dwg

		Bar Scales	Client	Scales	Drawn LM	Proj
				1 : 50	Designed	
G RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	0 500 1000 1500 2000mm			LM	
F RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22			Grid MGA2020	Checked AT	
E RTS ISSUE	11-11-21	1 : 20 @ A1 1 : 40 @ A3		Height	Approved	
D ISSUED FOR DEVELOPMENT APPLICATION	12-10-21	0 1 2 3 4 5m		Datum AHD		Title
C RTS ISSUE	12-10-21			Con	10000	
B ISSUED FOR DEVELOPMENT APPLICATION	19-04-21	1 : 50 @ A1 1 : 100 @ A3		GD GD	A2020	
A ISSUED FOR DEVELOPMENT APPLICATION	22-12-20			THIS DRAWING CANNOT BE COPI		
Issue Description	Date			OR USED FOR ANY OTHER PURPO INTENDED WITHOUT THE W	DSE OTHER THAN THAT OR RITTEN PERMISSION OF AT	IGINALLY F&L
100mm on Original						

TYPICAL SECTION DETENTION BASIN & POND

SECTION	(1)
1 : 50	C1071

^{ect} PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	er Street V 2060 05 777 055
DETENTION BASIN & POND SECTION	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.	A1 Issue
	20-748-C1072	G

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1072.dwg

	Client	Scales		Drawn	LM	Project PROPOSED INDUSTRIAL	Civil Engineers and Project M	lanagers	
			AS SHOWN	Designed	LM	DEVELOPMENT		evel 7, 153 Walke North Sydney NSW	er Street V 2060
		Grid	MGA2020	Checked	AT			ABN 96 130 882 40 Fel: 02 9439 177 Fax: 02 9923 104	05 77 55
	FSR	Height Datum	AHD	Approved			w ir	www.atl.net.au nfo@atl.net.au	00
			GD.	A2020		STORMWATER DRAINAGE	Status FOR APPROV NOT TO BE USED FOR CON	AL	A1
		THIS DRA OR USED INTE	WING CANNOT BE COPIE FOR ANY OTHER PURPO ENDED WITHOUT THE WF	ED OR REPRODUCEI SE OTHER THAN TH RITTEN PERMISSION	D IN ANY FORM AT ORIGINALLY OF AT&L	DETAILS SHEET 1	Project - Drawing No. 20-748-C1075		Issue B

ROCK GRADATION TABLE

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

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1075.dwg

STAGE 1 PIT SCHEDULE							
PIT CHAMBER DIMENSIONS	PIT No.	CHAMBER TYPE DETAIL	PIT TOP TREATMENT				
900x600	AC-1, AD-1, AF-1, AG-1, AH-1, AK-1, AL-1, AM-1, AN-1, AR-1, BB-1, BB-2	A	STANDARD GRATED KERB INLET PIT WITH LINTEL				
1200x900	AA-6, AA-7	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
1200x1200	XA-12, XA-13, XA-14, XA-15, XA-16	TO BE DETAILED IN DETAILED DESIGN	SEALED JUNCTION PIT				
1600x1500	XA-11, XA-10	TO BE DETAILED IN DETAILED DESIGN	SEALED JUNCTION PIT				
1800x1500	XA-17	TO BE DETAILED IN DETAILED DESIGN	SEALED JUNCTION PIT				
1600x1600	BA-2	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
1800x1800	L1-1, L2-1, L3-1	TO BE DETAILED IN DETAILED DESIGN	SEALED JUNCTION PIT				
2000x2200	BA-3. BA-4	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
2000x2250	AA-10, AA-11, AA-12, AA-13, AA1-14, AA-15, AA-16, AA-17	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
2000x2850	AA-9	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
2100x2150	AA-8	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
2250x4930	AA-18	TO BE DETAILED IN DETAILED DESIGN	STANDARD GRATED KERB INLET PIT WITH LINTEL				
8x1.2x1.2 + 8x0.9x0.9	BA-1	TO BE DETAILED IN DETAILED DESIGN	BASIN OUTLET GRATED PITS				
END CAP	L1B-1, CA-4B, L1A-1	-	-				
2x 1800Ø HEADWALL	AA-19	-	-				
900Ø HEADWALL	L4-1, XA-10B	-	-				

1. STANDARD GULLY PITS REFER TO PENRITH CITY COUNCIL STANDARD DRAWING SD2001 FOR DETAILS

— 'N' L BARS 500 x 500

____••••

SCALE 1:20

- SETOUT POINT

- SETOUT POINT

- SETOUT POINT

- SETOUT POINT

KERB INLET PIT

SURFACE INLET PIT

SCALE 1 :100

 \checkmark

JUNCTION PIT

SCALE 1 :100

HEADWALL

SCALE 1 :100

STORMWATER PIT

SETOUT POINTS

REFER PIT SETOUT PLANS

FOR ENLARGED CHAMBERS

SCALE 1 :100

TYPICAL CORNER DETAIL

- 2. FOR INLET SIZE REFER TO STORMWATER LONGITUDINAL SECTIONS ON DRAWING C4055 - C4059
- 3. FOR PIT CHAMBER SIZE REFER TO PIT SCHEDULE.
- 4. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
- 5. COMPRESSIVE STRENGTH (F'c) FOR CAST IN SITU CONCRETE SHALL BE CONFIRMED BY CONTRACTOR AND STRUCTURAL ENGINEER
- 6. TOP OF BENCHING SHALL BE $\frac{1}{2}$ OF OUTLET PIPE DIAMETER.
- 7. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
- 8. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
- 9. PIT GRATE TO BE 'WELDLOK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
- 10. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
- 11. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
- 12. CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walker S North Sydney NSW 2 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
STORMWATER DRAINAGE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
DETAILS SHEET 2	Project - Drawing No. 20-748-C1076	Issue B

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1076.dwg

1350	1500	1650	1800
250	250	250	250
550	550	550	550
350	350	350	350
530	530	530	530
225	225	225	225
150	150	150	150
50	50	50	50
100	100	100	100
300	300	300	300
150	150	150	150
2500	2700	2800	2900

	Civil Engineers and Project Managers					
DEVELOPMENT WESTLINK KEMPS CREEK	atta b c c c c c c c c c c	er Street W 2060 105 777 055				
	info@atl.net.au					
STORMWATER DRAINAGE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1				
DETAILS	Project - Drawing No.	Issue				
SHEET 3	20-748-C1077	В				

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1077.dwg

Client	Scales	Drawn LM	Proje
	AS SHOWN	Designed LM	1
	Grid MGA2020	Checked AT]
FSR	Height AHD Datum AHD	Approved	Titlo
	GD	A2020	
	THIS DRAWING CANNOT BE COPI OR USED FOR ANY OTHER PURPC INTENDED WITHOUT THE WI	ED OR REPRODUCED IN ANY FORM ISE OTHER THAN THAT ORIGINALLY RITTEN PERMISSION OF AT&L	1 Y
	Client ESR	Client Cl	Client Client Scales Drawn LM AS SHOWN Designed LM Grid MGA2020 Checked AT Height AHD Approved Datum AHD Approved THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORMOR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

HEADWALL TYPE "B" - TWIN PIPE										
PIPE DIAMETER	525	1050								
A	175	225								
В	450	525								
С	300	350								
D	375	530								
E	150	225								
F	138	150								
G	40	50								
J	100	100								
K	200	300								
Ν	150	150								
W	1000	1950								
М	2200	3700								

 COMPRESSIVE STRENGTH (Fc) FOR CAST-IN-SITU CONCRETE TO BE A MINIMUM OF 32mPa AT 28 DAYS.

• 25mm CHAMFER ON ALL EXPOSED SURFACES. CONTRACTOR TO DESIGN AND PROVIDE STRUCTURAL CERTIFICATE FOR ALL PITS / END STRUCTURES UNLESS ADAPTING PENRITH CITY COUNCIL STANDARD DETAILS

• ANTI GRAFFITI PAINT TO BE APPLIED TO FACE OF ALL HEADWALLS

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au					
STORMWATER DRAINAGE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1				
DETAILS SHEET 4	Project - Drawing No. 20-748-C1078	Issue B				

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1078.dwg

SUED FOR DEVELOPMENT APPLICATION	1
'S ISSUE	1
SUED FOR DEVELOPMENT APPLICATION	1
SUED FOR DEVELOPMENT APPLICATION	2
Description	

	WALL AREA =	851m ²			TOP O	FWALL								
		<u></u>		<u></u>	BOTTOM	1 OF WALL					*************************************	<u></u>	<u></u>	<u></u>
Datum RL31														
BOTTOM OF RETAINING WALL	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800
TOP OF RETAINING WALL	64.8	67.293	67.146	66.891	67.809	67.098	65.796	64.258	63.641	64.772	66.029	67.605	69.477	71.763
HEIGHT OF RETAINING WALL	0.000	2.493	2.346	2.091	3.009	2.298	0.996	-0.542	-1.159	-0.028	1.229	2.805	4.677	6.963
CHAINAGE	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	240.000	260.000

	WAL	L AREA = 271m ²		[
					·	 	
					— BOTTOM OF WALL		
Datum RL31							
BOTTOM OF		·	'		ľ	I	ľ
RETAINING WALL	64.857	62.640	61 494		60.545	59.773	59.418
TOP OF							
RETAINING WALL	65.023	64.8	64 8 8	2.10	64.8	64.8	59.389
HEIGHT OF							
RETAINING WALL	0.166	2.160		000.0	4 255	5.027	-0.029
CHAINAGE	0	8	Q	2	00	8	00
	0.00(20.00	40.00	2.2	60.00	80.0(87.2(

RETAINING WALL (RW-LOT 1-02) PROFILE SCALE 1:500 HORI. 1:500 VERT.

		Bar Scales								Client	9	Scales		Drawn	LM	Proj
RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22												AS SHOWN	Designed		-
RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22	0	10	20	30	40	50m							2 co.g. cu	LM	
RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22]	1.5(1 · 1000 @	٨٥					(Grid	MGA2020	Checked	AT	
RTS SUBMISSION	08-04-22		1.50	10 @ A I	1.1000@	AJ						Heiaht		Approved		1
RTS ISSUE	11-11-21	0	1	2	3	4	5m				SK 🗏	Datum	AHD			- Title
RTS ISSUE	12-10-21					_							Can			
ISSUED FOR DEVELOPMENT APPLICATION	19-04-21		1:5	0 @ A1	1 : 100 @ A	.3							GD	A2020		
ISSUED FOR DEVELOPMENT APPLICATION	22-12-20															
Description	Date										C)R USED F INTE	OR ANY OTHER PURPO NDED WITHOUT THE WI	DEB OTHER THAN T RITTEN PERMISSIO	HAT ORIGINALLY	
-	RE-ISSUED FOR DEVELOPMENT APPLICATION RE-ISSUED FOR DEVELOPMENT APPLICATION RTS SUBMISSION RTS ISSUE RTS ISSUE ISSUED FOR DEVELOPMENT APPLICATION ISSUED FOR DEVELOPMENT APPLICATION Description	RE-ISSUED FOR DEVELOPMENT APPLICATION05-12-22RE-ISSUED FOR DEVELOPMENT APPLICATION19-10-22RE-ISSUED FOR DEVELOPMENT APPLICATION29-08-22RTS SUBMISSION08-04-22RTS ISSUE11-11-21RTS ISSUE12-10-21ISSUED FOR DEVELOPMENT APPLICATION19-04-21ISSUED FOR DEVELOPMENT APPLICATION22-12-20DescriptionDate	RE-ISSUED FOR DEVELOPMENT APPLICATIOND5-12-22RE-ISSUED FOR DEVELOPMENT APPLICATION19-10-22RE-ISSUED FOR DEVELOPMENT APPLICATION29-08-22RTS SUBMISSION08-04-22RTS ISSUE11-11-21ISSUED FOR DEVELOPMENT APPLICATION12-10-21ISSUED FOR DEVELOPMENT APPLICATION19-04-21ISSUED FOR DEVELOPMENT APPLICATION22-12-20DescriptionDate	RE-ISSUED FOR DEVELOPMENT APPLICATION05-12-22RE-ISSUED FOR DEVELOPMENT APPLICATION19-10-22RE-ISSUED FOR DEVELOPMENT APPLICATION29-08-22RTS SUBMISSION08-04-22RTS ISSUE11-11-21ISSUED FOR DEVELOPMENT APPLICATION12-10-21ISSUED FOR DEVELOPMENT APPLICATION19-04-21ISSUED FOR DEVELOPMENT APPLICATION22-12-20DescriptionDate	Image: constraint of the constra	Image: Marcing State Bar Scales RE-ISSUED FOR DEVELOPMENT APPLICATION 19:10:22 RE-ISSUED FOR DEVELOPMENT APPLICATION 19:10:22 RTS SUBMISSION 29:08:22 RTS SUBMISSION 0 10 20 30 RTS ISSUE 11:11:21 ISSUED FOR DEVELOPMENT APPLICATION 12:10:21 ISSUED FOR DEVELOPMENT APPLICATION 19:04:21 ISSUED FOR DEVELOPMENT APPLICATION 22:12:20 Description Date	Image: Marcing and Constraints of the constraint of t	Image: marking the series of the series o	Image: Marking the mark	Bar Scales RE-ISSUED FOR DEVELOPMENT APPLICATION 051222 RE-ISSUED FOR DEVELOPMENT APPLICATION 191022 RE-ISSUED FOR DEVELOPMENT APPLICATION 290822 RTS SUBMISSION 080422 RTS ISSUE 1: 500 @ A1 1: 100 @ A3 ISSUED FOR DEVELOPMENT APPLICATION 11121 ISSUED FOR DEVELOPMENT APPLICATION 121021 ISSUED FOR DEVELOPMENT APPLICATION 121021 ISSUED FOR DEVELOPMENT APPLICATION 221220 Description Date	Image: Construct of the	Image: Normal State Series Clint RE-ISSUED FOR DEVELOPMENT APPLICATION 05/222 0 10 20 30 40 50m RE-ISSUED FOR DEVELOPMENT APPLICATION 10/22 30 40 50m 50m	Image: Not the state in th	Image: Normal State Serve	Image: Note: Note	Image: Note: Note

RETAINING WALL (RW-LOT 1-03) PROFILE SCALE 1:500 HORI. 1:500 VERT.

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

NOTE:

RETAINING WALL PROFILE IS INDICATIVE ONLY, REFER TO LANDSCAPE DRAWINGS FOR ENTRY FEATURE WALL CONCEPT.

^{ject} PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www att net au	er Street W 2060 405 777 055
2	info@atl.net.au	
RETAINING WALL	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
PROFILES	Project - Drawing No.	Issue
SHEET 1	20-748-C1085	Н

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1085.dwg

Н	RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22
Е	RTS SUBMISSION	08-04-22
D	RTS ISSUE	11-11-21
С	RTS ISSUE	12-10-21
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20
Issue	Description	Date

100mm on Original

RETAINING WALL (RW-LOT 1-03) PROFILE SCALE 1:500 HORI. 1:500 VERT.

					OF WALL				
					OI WALL				
	WALL AREA	$= 2.492m^{2}$			·····				
		_,							
					1 OF WALL				
Datum RL37									
RETAINING WALL	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800	64.800 64.800
		-		(0		~	2	-	~
	33	5	90	326	24	11	11	52	ရ ရွိ
RETAINING WALL	1	3.2	2.6	3.7			2.0	2.2	4.6
	~	2	7.	7	8	ŏ	õ	õ	ထ် ထိ
HEIGHT OF									
			0	6	0	~	2	~	0 0
	8	5	360	52	24(.5	1	5	l d d d d d d d d d d d d d d d d d d d
RETAINING WALL	ରି		0.0 8.0	3.(4.0	0.0	÷	7.0	0.0. 0.0
	9	Ø	7	~ 	7	7	2	5	÷ ÷
CHAINAGE	8	8	00	8	8	8	00	8	33 00
	Ō.	Ō.	Ō	Ō.	0.	0.	0.0	0.0	0.0
	00	20	40	60	80	00	20	40	60
	e	ю́	ň	ñ		4	4	4	44

Client	Scales	Project PROPOSED INDUSTRIAL	Civil Engineers and Project Managers					
	1:500	Designed	LM	DEVELOPMENT	Level 7, 153 Wal North Sydney NS	ker Street SW 2060		
	Grid MGA2020	Checked	AT		ABN 96 130 882 Tel: 02 9439 1 Fax: 02 9923 1	405 1777 1055		
ESR	Height AHD Datum AHD	Approved			www.atl.net.au info@atl.net.au			
	G	GDA2020		RETAINING WALL	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1		
	THIS DRAWING CANNOT BE COP OR USED FOR ANY OTHER PURF INTENDED WITHOUT THE V	IED OR REPRODUCED IN ANY FORM OSE OTHER THAN THAT ORIGINALLY /RITTEN PERMISSION OF AT&L		PROFILES SHEET 2	Project - Drawing No. 20-748-C1086	Issue H		

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

F:\20-748 ESR Mamre\6.0 Drgs\CIVII\FINAI\SSDA\1000_INFRASTRUCTURE\20-748-C1086.dwg

100mm on Original

	Client	Scales	1.500	Drawn	LM	Proje
			1:500	Designed	LM]
		Grid	MGA2020	Checked	AT	
	FSR	Height Datum	AHD	Approved		Title
			GD	42020		The
		THIS DRAV OR USED FO INTEN	VING CANNOT BE COPIE OR ANY OTHER PURPOS NDED WITHOUT THE WR	D OR REPRODUCE SE OTHER THAN TH ITTEN PERMISSION	D IN ANY FORM AT ORIGINALLY N OF AT&L	

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

^{ect} PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	er Street V 2060 05 777 055
RETAINING WALL	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
PROFILES SHEET 3	Project - Drawing No. 20-748-C1087	Issue H

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1087.dwg

	TOP OF RETAINING WALL	60.128	60.328		60.536		60.744		60.952		
	HEIGHT OF RETAINING WALL	0.528	4.029		5.536		5.744		ь о <i>б</i> у	N 0000	
	CHAINAGE	0.000	20.000		40.000		60.000		80.000		
					Bar Scales						
RE-ISSUED FOR DE				05-12-22							
RE-ISSUED FOR DE				19-10-22							
RE-ISSUED FOR DE				29-08-22		0	10	20	20	40	50
RTS SUBMISSION				08-04-22			10	20	30	40	SOM
				11-11-21			1 : 50	0 @ A1	1 : 1000 @) A3	
				12-10-21				U			
ISSUED FOR DEVEL				22-12-20							
	Description			Date							
		100mm	on Original								

Н

G

F

Е D

С

В

А

Issue

WALL AREA = 1,028m²

				l f										
					OM OF WALL									
Datum RL27														
BOTTOM OF			I	I	l	Γ	I		I	1	1	1	Γ	
RETAINING WALL	59.600	56.299	55.000	55.000	55.000	55.000	56.613	58.849	60.602	62.014	63.107	62.823	61.916	
TOP OF														
RETAINING WALL	0.128).328).536	0.744).952	.16	1.368	1.554	2.127	5.96	3.792	1.625	5.458	
		00	00	00	00	è	Q	Q	<u>.</u>	<u>.</u>	6	ő	66	
HEIGHT OF														
RETAINING WALL	0.528	4.029	5.536	5.744	5.952	6.160	4.754	2.705	1.525	0.946	0.686	1.802	3.542	
		_	_	_	_	0	0	0	0	0	0	Q	Q	
	0.000	20.000	40.000	60.000	80.000	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	

TOP OF WALL

Client	Scales	Drawn	LM	Pro
	1.500	Designed	LM	
	Grid MGA2020	Checked	AT	
FS	R Height AHD	Approved		
		GDA2020		
	THIS DRAWING CANNOT BE OR USED FOR ANY OTHER PI INTENDED WITHOUT TI	COPIED OR REPRODU JRPOSE OTHER THAN IE WRITTEN PERMISSI	CED IN ANY FORM THAT ORIGINALL ON OF AT&L	Л .Ү

RETAINING WALL (RW-LOT 4-01) PROFILE SCALE 1:500 HORI. 1:500 VERT.

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

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1088.dwg

	WAI	LL AREA = 38m ²		L
			BOTTOM OF WALL	
Datum RL36				
BOTTOM OF RETAINING WALL	64.217	65 049		65.882 65.917
TOP OF RETAINING WALL	66.000			66.000 66.000
HEIGHT OF RETAINING WALL	1.783	0051	- 	0.118 0.083
CHAINAGE	300.000	320.000		340.000 340.843

RETAINING WALL (RW-LOT 4-02) PROFILE SCALE 1:500 HORI. 1:500 VERT.

WALL AREA = 1,146m²

								BOTTO	DM OF WALL							
Datum RL32																
BOTTOM OF RETAINING WALL		64.905	63.878	62.968	62.059	61.149	60.321	60.532	60.743	60.955	61.166	61.377	61.718	62.551	63.384	64.217
TOP OF RETAINING WALL	66.000	000.99	000	66.000	66.000	66.000	000.99	66.000	000	000	66.000	000	000	0000	000	66.000
HEIGHT OF RETAINING WALL	00000	1.095	2.122	3.032	3.941	4.851	5.679	5.468	5.257	5.045	4.834	4.623	4.282	3.449	2.616	1.783
CHAINAGE	0.000	20.000	40.000	0000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	240.000	260.000	280.000	300.000
		· · · · ·	-				-	-		-	· · ·	· · ·		· · ·		

			Bar Scales						
Н	RE-ISSUED FOR DEVELOPMENT APPLICATION	05-12-22							
G	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22							
F	RE-ISSUED FOR DEVELOPMENT APPLICATION	29-08-22							
Е	RTS SUBMISSION	08-04-22		0	10	20	30	40	50m
D	RTS ISSUE	11-11-21					4 4000 6		
С	RTS ISSUE	12-10-21			1:50)0 @ A1	1 : 1000 @) A3	
В	ISSUED FOR DEVELOPMENT APPLICATION	19-04-21							
А	ISSUED FOR DEVELOPMENT APPLICATION	22-12-20							
Issue	Description	Date							

100mm on Original

Height AHD Approved KEMPS CREEK	Client	Scales 1 : 500 Grid MGA2020 Height AHD	DrawnLMDesignedLMCheckedATApproved	Project PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walk North Sydney NS ¹ ABN 96 130 882 4 Tel: 02 9439 1 Fax: 02 9923 1 Www.atl.net.au info@atl.net.au	cer Street W 2060 405 777 055
Title RETAINING WALL A1		GD	A2020		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM PROFILES Project - Drawing No. Issue OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY NTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L SHEET 5 20-748-C1089 H		THIS DRAWING CANNOT BE COPIE OR USED FOR ANY OTHER PURPO INTENDED WITHOUT THE WE	ED OR REPRODUCED IN ANY FORM DSE OTHER THAN THAT ORIGINALLY RITTEN PERMISSION OF AT&L	PROFILES SHEET 5	Project - Drawing No. 20-748-C1089	Issue H

RETAINING WALL (RW-LOT 4-02) PROFILE SCALE 1:500 HORI. 1:500 VERT.

TOP OF WALL

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

F:\20-748 ESR Mamre\6.0 Drgs\CIVII\FINAI\SSDA\1000_INFRASTRUCTURE\20-748-C1089.dwg

(rof \Yrof\Y 20_7/12_1000_KP_1_500_CHEETC | ITH ITIES dwg

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1102.dwg

EXISTING WATER I TO BE RELOCATED EXISTING WATER I TO BE RELOCATED TO BE RELOCATED UGOH TO BE DETAIL	MAIN MAIN CONNECTION CONFIRMED IN ED DESIGN	OVERHEAD ELECTRICAL AND TELECOMMUNICATIONS TO BE REMOVED AND REPLACED IN NEW COMBINED TRENCH
G RE-ISSUED FOR DEVELOPMENT APPLICATION F RE-ISSUED FOR DEVELOPMENT APPLICATION E RTS SUBMISSION D RTS ISSUE C RTS ISSUE B ISSUED FOR DEVELOPMENT APPLICATION A ISSUED FOR DEVELOPMENT APPLICATION Issue Description	Bar Scales 19-10-22 29-08-22 08-04-22 11-11-21 12-10-21 19-04-21 22-12-20 Date	10 20 30 40 50m 1 : 500 @ A1 1 : 1000 @ A3

			1 : 500	Designed	LM	1
		Grid	MGA2020	Checked	AT]
	ESR	Height Datum	AHD	Approved		
			ØGI	DA2020		
		THIS DRA OR USED	WING CANNOT BE CO FOR ANY OTHER PURI ENDED WITHOUT THE	PIED OR REPRODU(POSE OTHER THAN WRITTEN PERMISSI	CED IN ANY FORM THAT ORIGINALLY ON OF AT&I	 1

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1103.dwg

(rof \Yrof\Y 20_7/18_1000_KP_1_500_QHEETQ | ITII ITIEQ duar

(rof \Yrofly 20_7/8_1000_KP_1_500_CHEETS | ITII ITIES dwg

	G	DA2020		
	Height AHD Datum AHD	Approved		
	Grid MGA2020	Checked	LM AT	\neg
Client	1 : 500	Designed	LM	Proj
	Scales	Drawn		Droi
				.
00.46				
85.00				
-86.00				
				00.08
	-09/8-			
	-			
	00 98			

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

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1105.dwg

		Client	Scales	4 . 500	Drawn	LM	Proj
				1:500	Designed	LM	
			Grid	MGA2020	Checked	AT	
		FSR	Height Datum	AHD	Approved		Titla
		GDA2020					
			THIS DRAW OR USED FO INTEN	/ING CANNOT BE COPIE OR ANY OTHER PURPOS IDED WITHOUT THE WR	D OR REPRODUCE SE OTHER THAN TH NITTEN PERMISSION	D IN ANY FORM IAT ORIGINALLY NOF AT&L	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1106.dwg

· · · · · ·
-00
В

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1201.dwg

^{₽ct} PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@oth net au				
EROSION AND SEDIMENT	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.	A1			
	20-748-C1210	G			

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1210.dwg

VEHICLE BODY ENVELOPE

0.5m VEHICLE BODY CLEARANCE ENVELOPE

PROPOSED INDUSTRIAL DEVELOPMENT WESTLINK KEMPS CREEK	Civil Engineers and Project Managers Level 7, 153 Walk, North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	er Street W 2060 405 777 055	
VEHICLE	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
TURNPATH PLAN SHEET 1	Project - Drawing No. 20-748-C1311	Issue G	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1311.dwg

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

VEHICLE
TURNPATH PLAN
SHEET 2

						274 SB	Cristom	
				-+	€ 87 13	conston Charle		10Σ
				550				
				IGINA PARA 201 PTRIA PARA 201		A		S RC
				0			RIPLE	1–8 140912114
			55(
			Bar Scales					
B	RE-ISSUED FOR DEVELOPMENT APPLICATION	19-10-22		0 5 1	¹⁰ : 250 @ A1	15 1 : 500 @ A	20 \ \3	25m
A Issue	RE-ISSUED FOR DEVELOPMENT APPLICATION Description	29-08-22 Date						

100mm on Original

Clier	Client	Scales	4 . 050	Drawn LM	LM	Proje
			1:250	Designed	LM	1
		Grid	MGA2020	Checked	AT]
	FSR	Height Datum	AHD	Approved		Titlo
		GDA2020				
		THIS DRAV OR USED FO INTEN	VING CANNOT BE COPIE OR ANY OTHER PURPO NDED WITHOUT THE WF	ED OR REPRODUCE SE OTHER THAN TI RITTEN PERMISSIO	ED IN ANY FORM HAT ORIGINALLY N OF AT&L	

	Client	Scales	4 050	Drawn	LM	Proje
			1 : 250	Designed	LM	1
		Grid	MGA2020	Checked	AT	
	FSR	Height Datum	AHD	Approved		Title
			GDA2020			
		THIS DRA OR USED I INTE	WING CANNOT BE COPIE FOR ANY OTHER PURPO ENDED WITHOUT THE WE	ED OR REPRODUC SE OTHER THAN T RITTEN PERMISSIC	ED IN ANY FORM HAT ORIGINALLY IN OF AT&L	

F:\20-748 ESR Mamre\6.0 Drgs\Civil\Final\SSDA\1000_INFRASTRUCTURE\20-748-C1314.dwg