

# PROPOSED SUBDIVISION WINDRADYNE 1100 CIVIL WORKS PACKAGE

BATHURST  
REGIONAL COUNCIL

Development Application  
2018/395

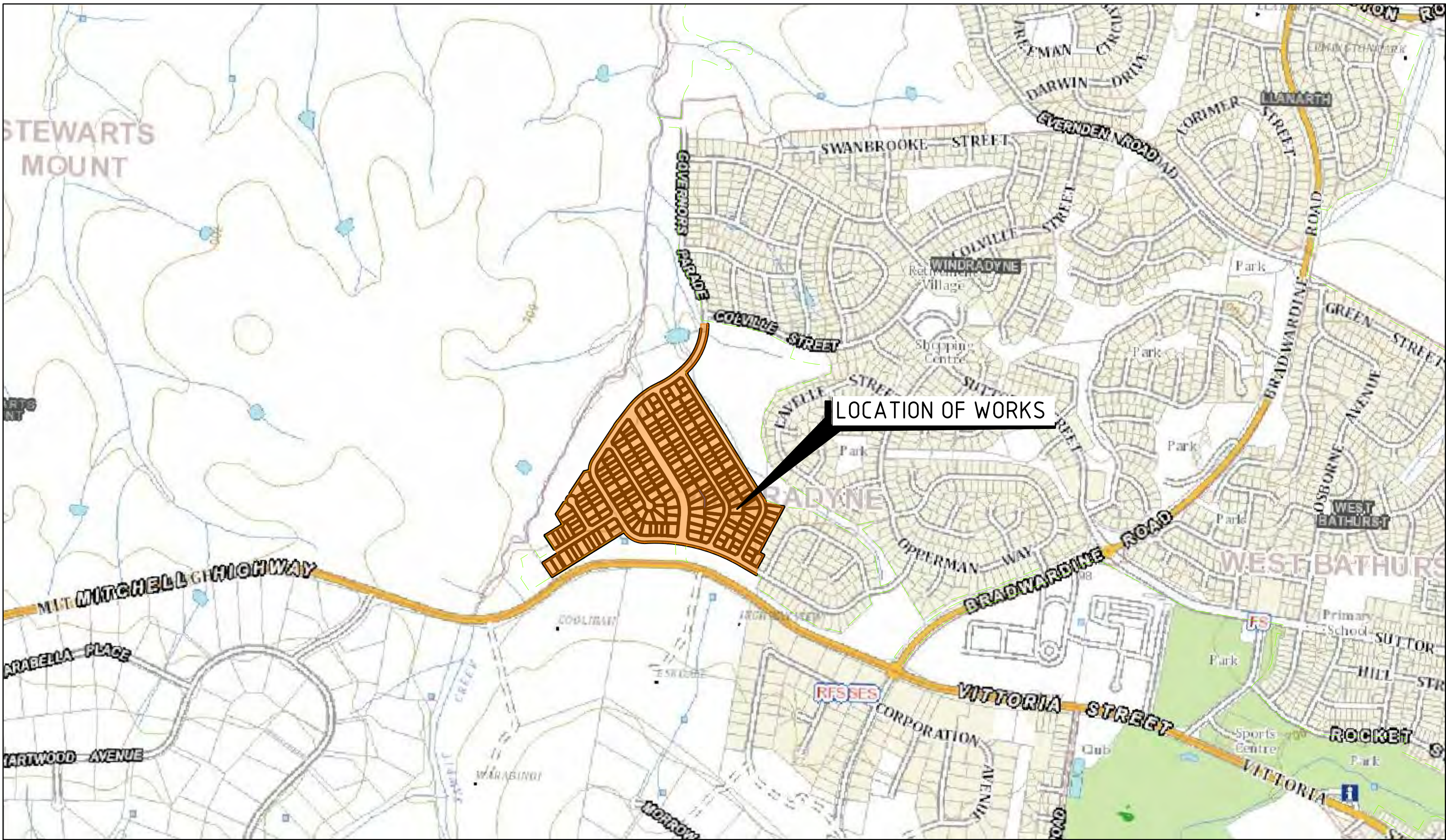
Development Approval  
has been granted  
subject to conditions  
imposed by Council's  
Notices of  
Determination.

NOTE:  
Read conditions of  
Approval before  
commencing work.

28 April 2021  
Per: LMW

COPY ONLY CHECK SCALE

DRAWING LIST	
DRAWING No.	DRAWING TITLE
17-465-DA001	COVER SHEET AND LOCALITY PLAN
17-465-DA002	GENERAL NOTES AND LEGENDS
17-465-DA003	GENERAL ARRANGEMENT PLAN
17-465-DA011	TOTAL SITE GRADING PLAN SHEET 1
17-465-DA012	TOTAL SITE GRADING PLAN SHEET 2
17-465-DA013	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
17-465-DA014	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
17-465-DA015	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
17-465-DA016	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
17-465-DA017	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
17-465-DA018	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6
17-465-DA019	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 7A AND 7B
17-465-DA020	BULK EARTHWORKS PLAN SHEET 1
17-465-DA021	BULK EARTHWORKS PLAN SHEET 2
17-465-DA025	SEWERMAIN AND PORTABLE WATERMAIN PLAN SHEET 1
17-465-DA026	SEWERMAIN AND PORTABLE WATERMAIN PLAN SHEET 2
17-465-DA030	LOT LAYOUT PLAN SHEET 1
17-465-DA031	LOT LAYOUT PLAN SHEET 2



LOCALITY PLAN  
N.T.S

J	ISSUE FOR APPROVAL	16-06-20	Bar Scales	Key Plan	Client		Scales	Drawn	QD	Project	Civil Engineers and Project Managers					
I	ISSUE FOR APPROVAL	24-04-20					NTS	Designed	GJ & QD			WINDRADYNE 1100	 <div>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</div>			
H	ISSUE FOR APPROVAL	18-03-19						Grid	MGA					Checked	GJ	
G	ISSUE FOR APPROVAL	07-03-19					Height Datum	AHD	Approved						Title	COVER SHEET AND LOCALITY PLAN
F	ISSUE FOR APPROVAL	24-01-19					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									
E	ISSUE FOR APPROVAL	21-11-18														
D	ISSUE FOR APPROVAL	16-10-18														
C	ISSUE FOR APPROVAL	05-10-18														
B	ISSUE FOR APPROVAL	14-09-18														
Issue	Description	Date														



## SITWORKS LEGEND

### EXISTING

- EXISTING BOUNDARY
- EXISTING FENCE
- EXISTING CONTOUR

### PROPOSED SITWORKS

- EXISTING BOUNDARY TO BE REMOVED
- PROPOSED BOUNDARY

- PROPOSED FOOTPATH
- PROPOSED CYCLEWAY
- PROPOSED KERB AND GUTTER

- PROPOSED PRAM RAMP
- PROPOSED CONTOUR (0.5m INTERVAL)
- RETAINING WALL

- PROPOSED STORMWATER PIPE AND PIT

- SURFACE INLET PIT
- GROSS POLLUTANT TRAP

- PROPOSED BATTERS

- LIMIT OF WORKS

## SITWORKS NOTES

- ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 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 COMPACTED 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)
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R16.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND), RMS. 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<sup>2</sup> OF BASECOURSE MATERIAL PLACED.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND 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<sup>2</sup> OF SUB-BASE COURSE MATERIAL PLACED.
- AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- 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.
- 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.

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



## CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 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 <sub>c</sub> 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.

- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 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.
- 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.
- 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

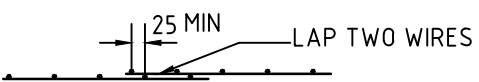
17 N 20 250

NOMINAL BAR SIZE IN mm

SPACING IN mm

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

- FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



## STORMWATER DRAINAGE NOTES

- 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= 198 mm/hr  
1:20 YEARS= 143 mm/hr  
(C) RUNOFF COEFFICIENTS:  
ROOF AREAS: C<sub>100</sub> =1.0  
EXTERNAL PAVEMENTS: C<sub>20</sub> =0.95
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
- ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- PIPES TO BE INSTALLED TO TYPE HS1 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)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 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.

## SURVEY NOTES

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

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

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

### IMPORTANT NOTES

- THE SURVEY IS ON GROUND MAP GRID OF AUSTRALIA (MGA) BASED ON PM 129806 - E 736 185 659 N 6 300 545.771 COMBINED SCALE FACTOR 1.000175
- ALL REDUCED LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (A.H.D)
- ORIGIN OF LEVELS SSM 82191 RL 704.034 (A.H.D) END OF RICHARDSON STREET
- ORIGIN OF LEVELS SSM 82191 RL 704.034 (A.H.D) END OF RICHARDSON STREET
- CONTOUR INTERVAL IS 0.5m.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED BY SURVEY. THE POSITION OF THE UNDERGROUND SERVICES IS APPROXIMATE ONLY AND HAS BEEN SCALED FROM THE RELEVANT AUTHORITY'S SERVICES PLANS USING THE "DIAL BEFORE YOU DIG" SERVICE. SEARCH DATE: - 28/06/2017.
- NOT ALL SERVICE INFORMATION MAY BE SHOWN DUE TO UNAVAILABILITY OF SERVICE PLANS OR CURRENT INFORMATION.
- INDEPENDENT INQUIRIES FOR UP TO DATE SERVICE LOCATIONS THROUGH THE RELEVANT AUTHORITIES MUST BE UNDERTAKEN PRIOR TO COMMENCEMENT OF ANY WORKS/EXCAVATION. EXACT SERVICE POSITIONS SHOULD BE ESTABLISHED BY APPROPRIATE MEANS. WE RECOMMEND PROFESSIONAL SERVICE LOCATORS.
- THE BOUNDARIES SHOWN ON THIS PLAN ARE BASED ON OUR FIELD SURVEY. TO FORMALISE THESE DIMENSIONS WE WOULD RECOMMEND THE PREPARATION OF A REDEFINITION PLAN, SUITABLE FOR LODGEMENT AND REGISTRATION AT NSW LAND REGISTRY SERVICES.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. CONTOURS DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT, EXCEPT AT SPOT LEVELS SHOWN.
- THIS PLAN MUST REMAIN UNALTERED AS ISSUED BY VOERMAN AND RATSEP. ALTERING ANY PART OF THIS PLAN DESTROYS THE INTEGRITY OF THE PLAN. ANY REVISIONS REQUESTED MUST BE ISSUED BY VOERMAN AND RATSEP.
- VOERMAN & RATSEP THEREFORE DISCLAIMS ANY LIABILITY FOR ANY LOSS OR DAMAGE WHATSOEVER OR HOWSOEVER INCURRED ARISING FROM ANY PARTY WHO USES OR RELIES UPON THIS PLAN FOR ANY OTHER PURPOSE. THIS PLAN MAY BE SUBJECT TO ALTERATION FOR REASONS BEYOND THE CONTROL OF VOERMAN & RATSEP.
- THESE NOTES ARE AN INTEGRAL PART OF THIS PLAN. REPRODUCTION OF THIS PLAN OR OF ANY PART OF THIS PLAN WITHOUT THESE NOTES BEING INCLUDED IN FULL WILL RENDER THE INFORMATION SHOWN ON SUCH REPRODUCTION INVALID AND NOT SUITABLE FOR USE.

### EASEMENTS

- EASEMENT TO DRAIN WATER 4 WIDE (DP852497)

LOT 38 IN DP1055620 & LOT 1126 IN DP1215618 ARE SUBJECT TO VARIOUS RESTRICTIONS ON THE USE OF LAND, THE TERMS AND CONDITIONS OF WHICH HAVE NOT BEEN INVESTIGATED.

## KERBING NOTES

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- 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.
- 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.
- BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- 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.

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## EROSION AND SEDIMENT CONTROL

### NOTES

#### GENERAL INSTRUCTIONS

- THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 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 2004.
- MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 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

- 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:

- INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
- INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
- 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

- DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

#### SEDIMENT CONTROL

- 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.
- 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.
- 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.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

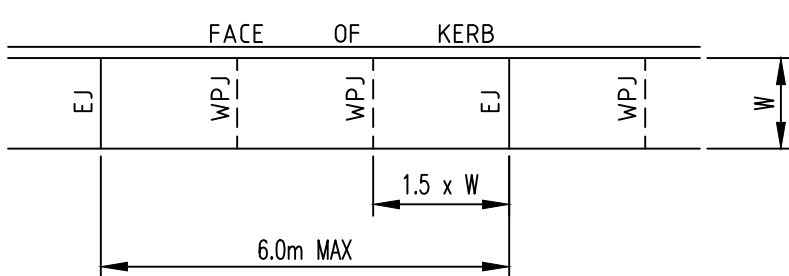
#### OTHER MATTERS

- ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
  - PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
  - ENSURING THAT NOTHING IS NAILED TO THEM
  - PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
    - 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, WHICHEVER IS THE GREATER
    - 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
    - CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

## JOINTING NOTES

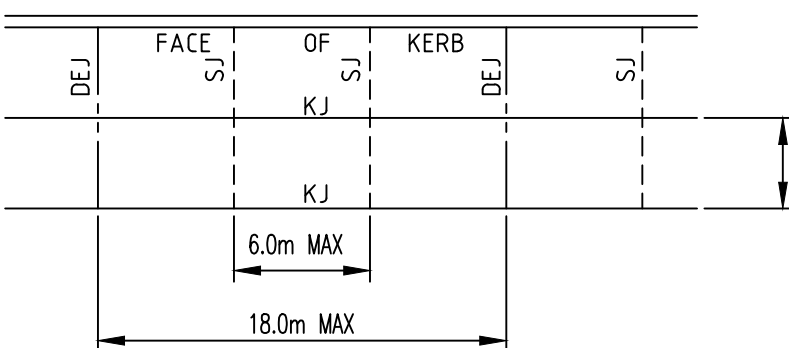
### PEDESTRIAN PAVEMENT JOINTS

- ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
- EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
- WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 15 x WIDTH OF THE PAVEMENT.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
- PEDESTRIAN PAVEMENT JOINT DETAIL.



### VEHICULAR PAVEMENT JOINTS

- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
- KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
- SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES
- VEHICULAR PAVEMENT JOINT DETAIL.



## EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

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

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

I	ISSUE FOR APPROVAL	16-06-20
H	ISSUE FOR APPROVAL	24-04-20
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A	ISSUE FOR COMMENT	05-04-18
Issue	Description	Date

Bar Scales
100mm on Original

Key Plan

Client
BATHURST REGIONAL COUNCIL

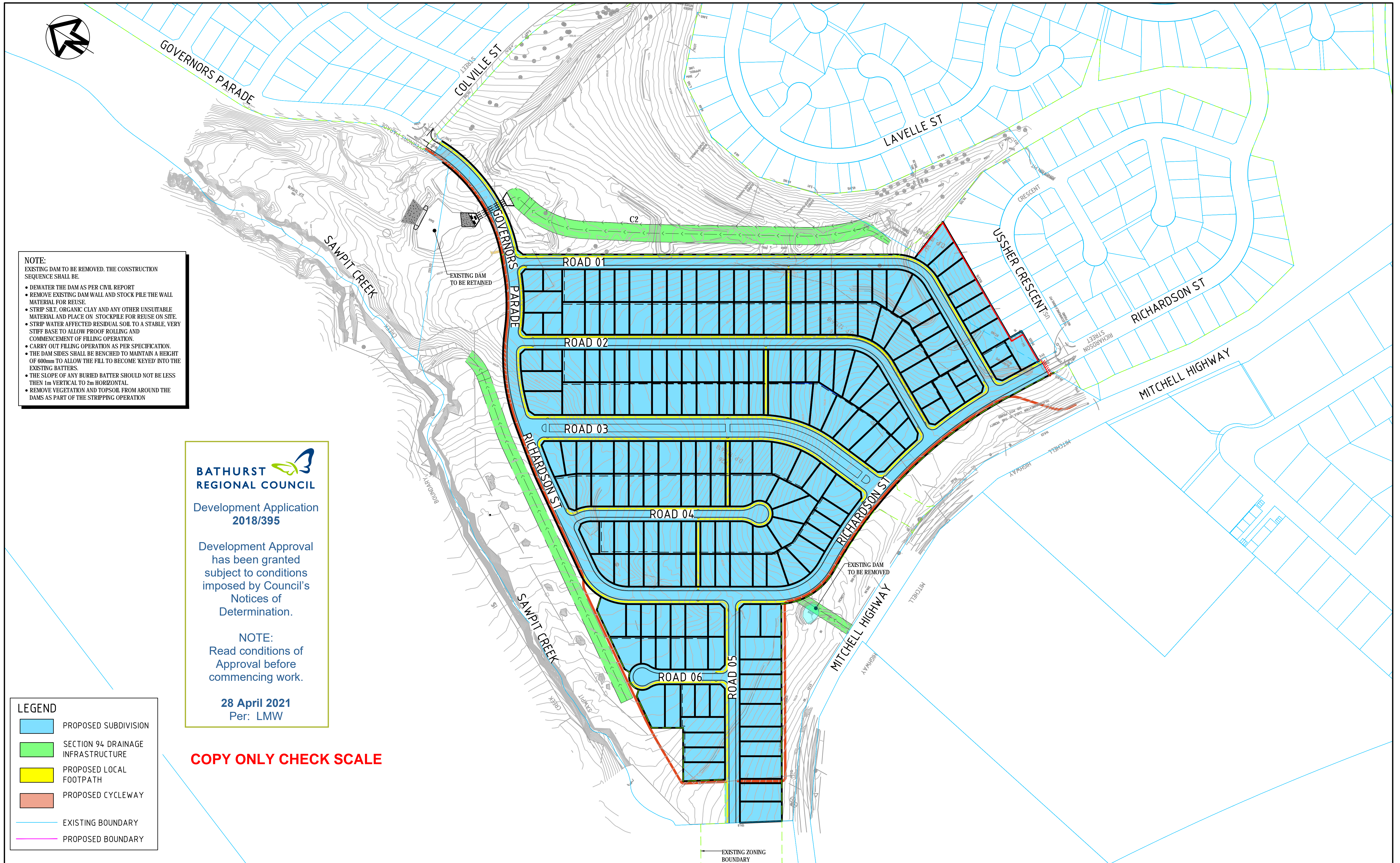
Scales  NTS		Drawn	QD
		Designed	GJ & QD
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Height Datum	AHD	Approved	

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INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Project
WINDRADYNE 1100
Title
GENERAL NOTES AND LEGENDS

Civil Engineers and Project Managers		
at&I 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	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
17-465-DA002	17-465	I





**NOTE:**  
EXISTING DAM TO BE REMOVED. THE CONSTRUCTION SEQUENCE SHALL BE.

- DEWATER THE DAM AS PER CIVIL REPORT
- REMOVE EXISTING DAM WALL AND STOCK PILE THE WALL MATERIAL FOR REUSE.
- STRIP SILT, ORGANIC CLAY AND ANY OTHER UNSUITABLE MATERIAL AND PLACE ON STOCKPILE FOR REUSE ON SITE.
- STRIP WATER AFFECTED RESIDUAL SOIL TO A STABLE, VERY STIFF BASE TO ALLOW PROOF ROLLING AND COMMENCEMENT OF FILLING OPERATION.
- CARRY OUT FILLING OPERATION AS PER SPECIFICATION.
- THE DAM SIDES SHALL BE BENCHED TO MAINTAIN A HEIGHT OF 600mm TO ALLOW THE FILL TO BECOME KEYED INTO THE EXISTING BATTERS.
- THE SLOPE OF ANY BURIED BATTER SHOULD NOT BE LESS THEN 1m VERTICAL TO 2m HORIZONTAL.
- REMOVE VEGETATION AND TOPSOIL FROM AROUND THE DAMS AS PART OF THE STRIPPING OPERATION









**BATHURST  
REGIONAL COUNCIL**

Development Application  
**2018/395**

Development Approval  
has been granted  
subject to conditions  
imposed by Council's  
Notices of  
Determination.

**NOTE:**  
Read conditions of  
Approval before  
commencing work.

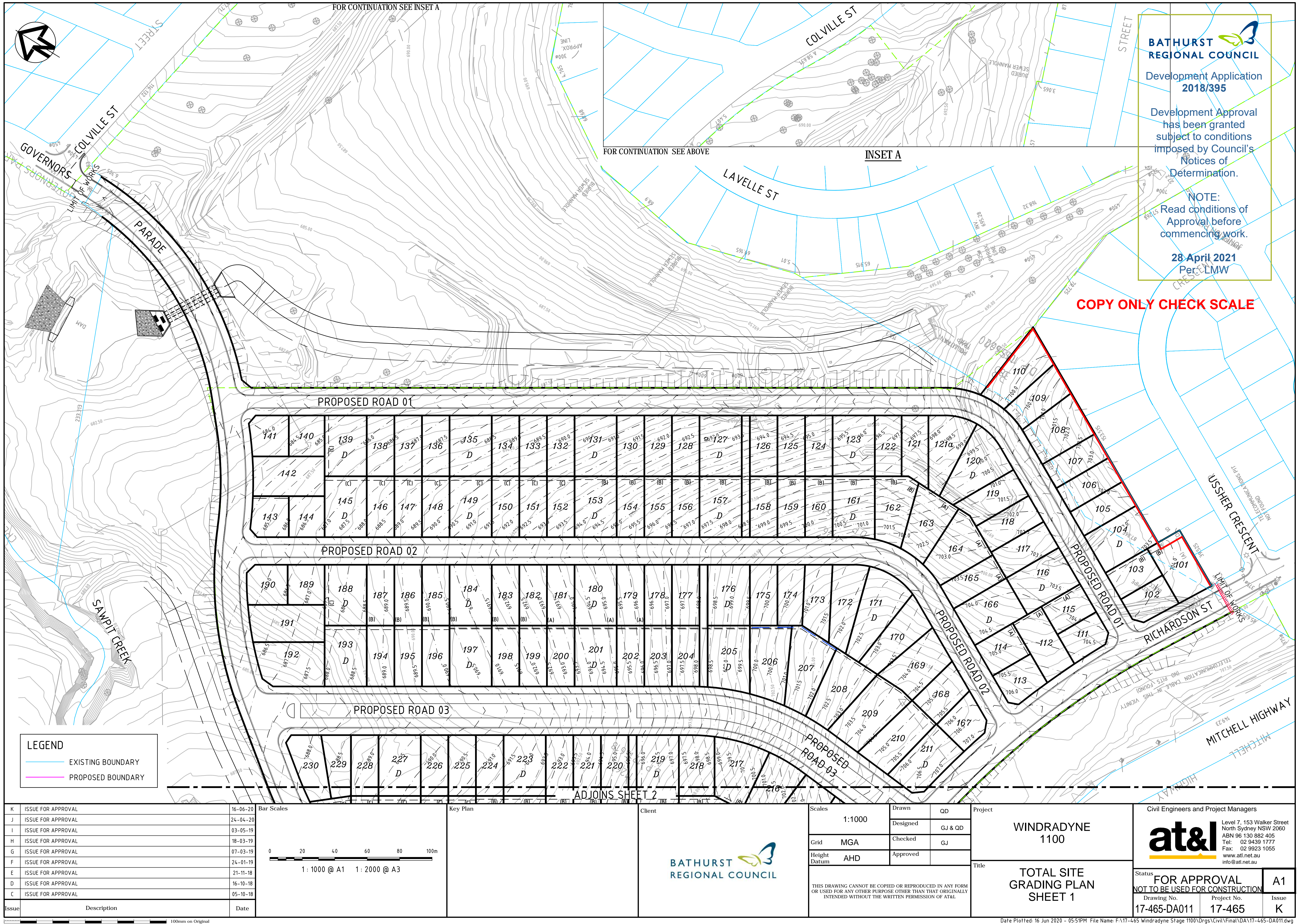
**28 April 2021**  
Per: LMW

LEGEND	
	PROPOSED SUBDIVISION
	SECTION 94 DRAINAGE INFRASTRUCTURE
	PROPOSED LOCAL FOOTPATH
	PROPOSED CYCLEWAY
	EXISTING BOUNDARY
	PROPOSED BOUNDARY

**COPY ONLY CHECK SCALE**

K	ISSUE FOR APPROVAL	16-06-20	<div>Bar Scales</div> <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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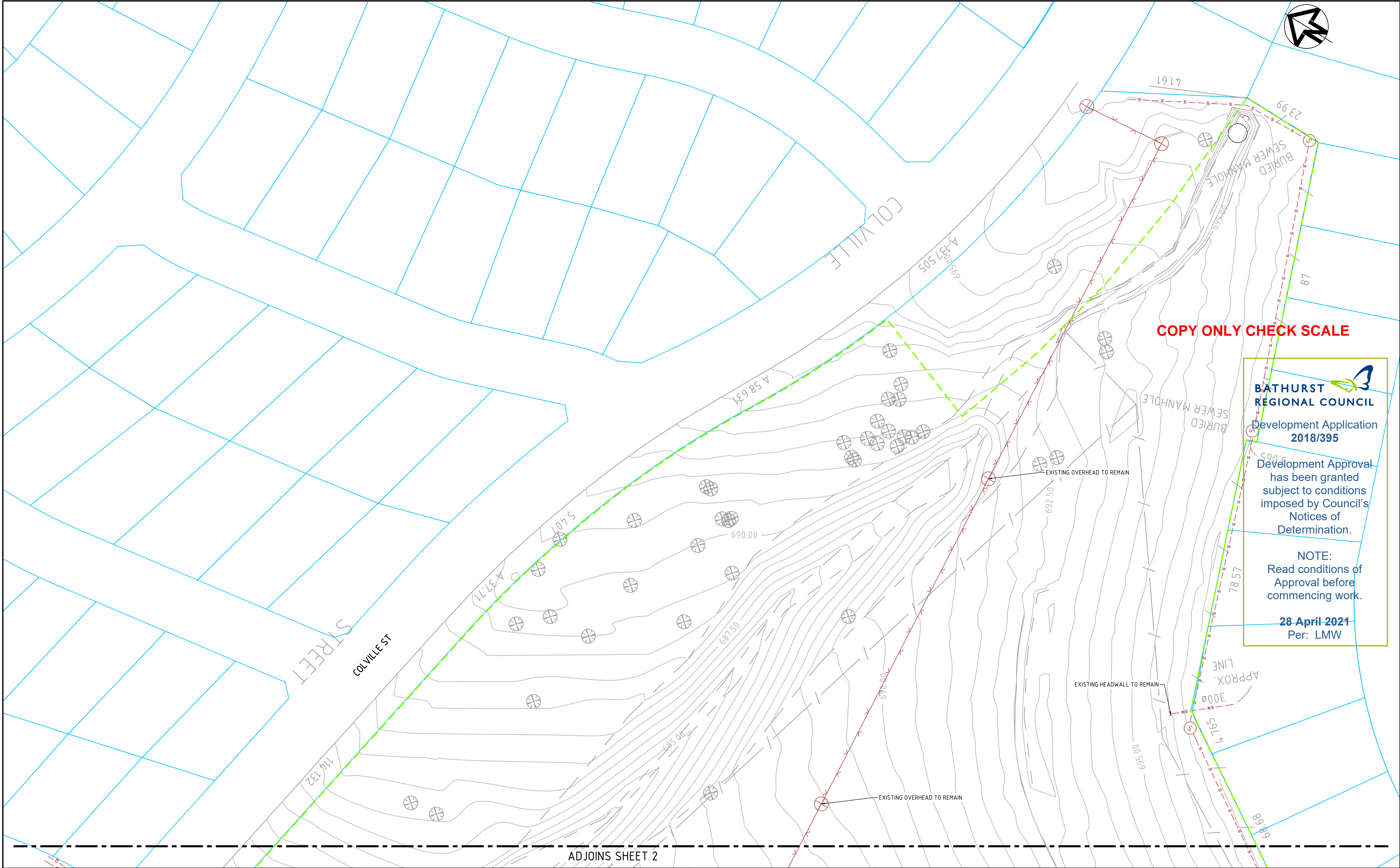












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**BATHURST  
REGIONAL COUNCIL**

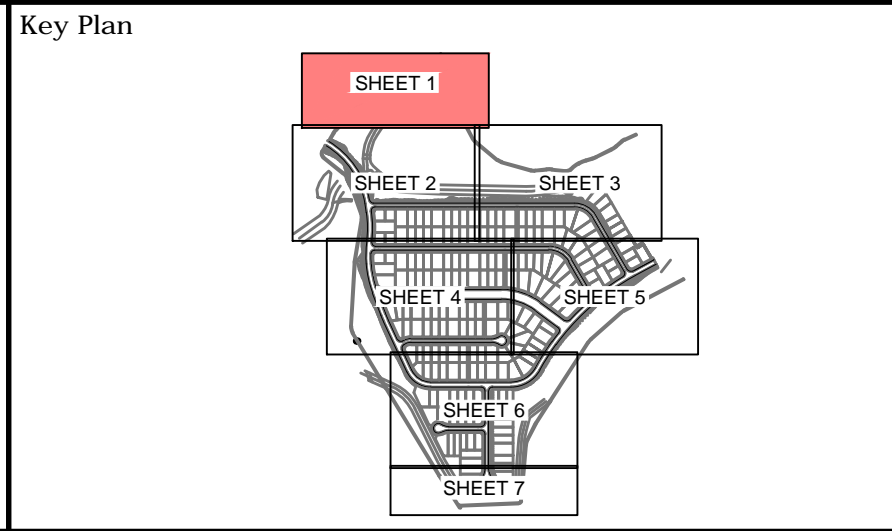
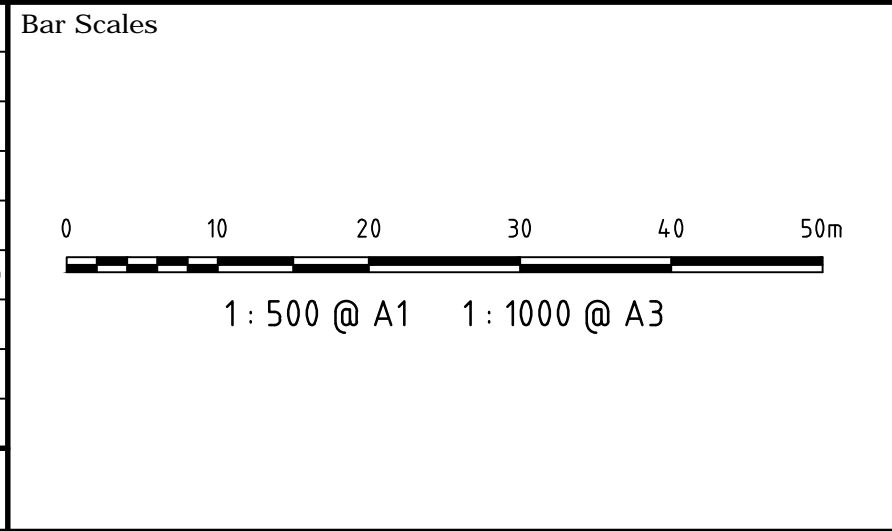
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**28 April 2021**  
Per: LMW

E	ISSUE FOR APPROVAL	16-06-20
D	ISSUE FOR APPROVAL	24-04-20
C	ISSUE FOR APPROVAL	03-05-19
B	ISSUE FOR APPROVAL	18-03-21
A	ISSUE FOR APPROVAL	07-03-19
Issue	Description	Date



Client



Scales	1:500	Drawn	QD
		Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	
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Project

**WINDRADYNE  
1100**

Title

**SITEWORKS AND  
STORMWATER DRAINAGE  
PLAN SHEET 1**

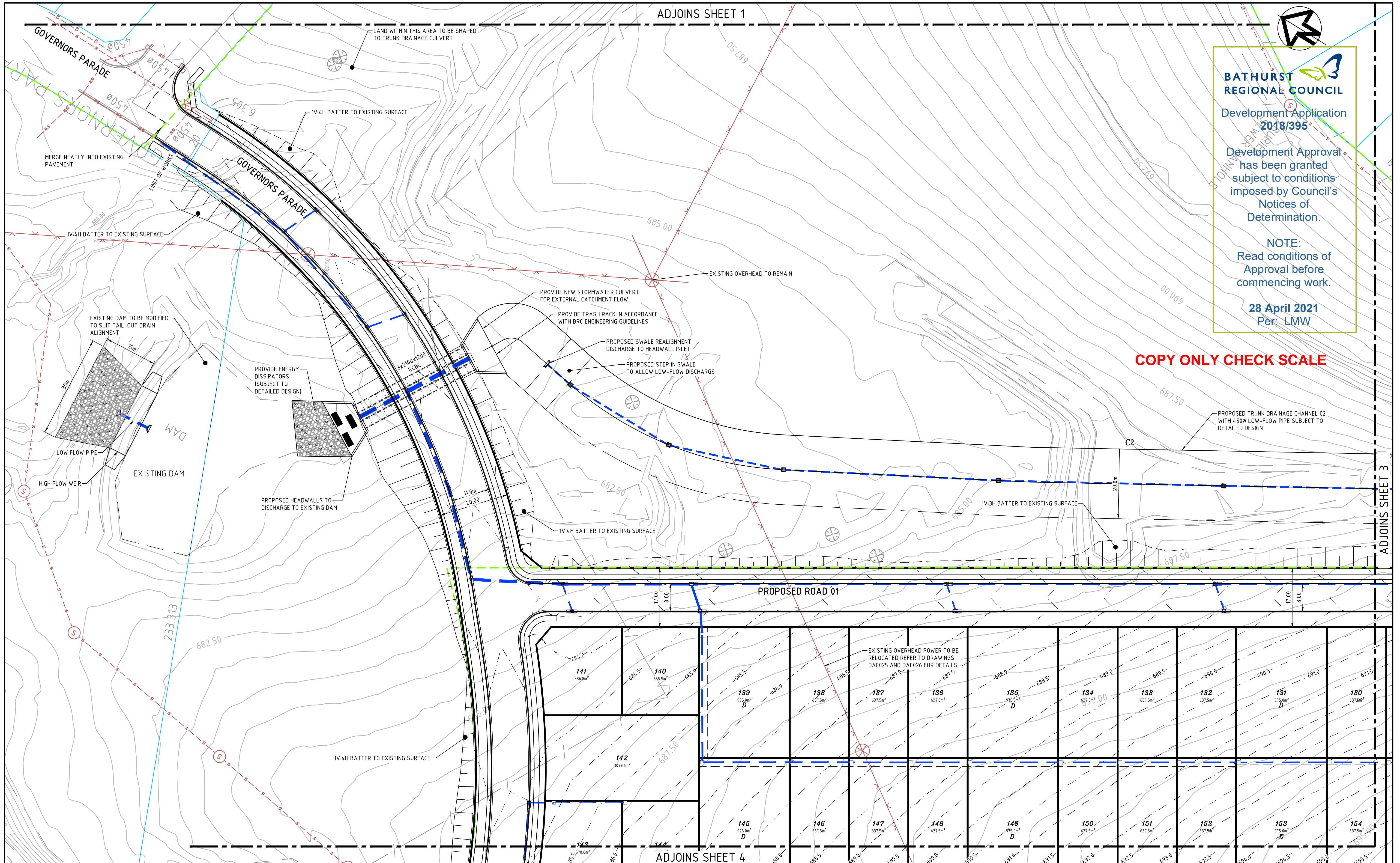
Civil Engineers and Project Managers



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	<b>FOR APPROVAL</b>	<b>A1</b>
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	17-465-DA013	Issue
Project No.	17-465	<b>E</b>





**BATHURST REGIONAL COUNCIL**

Development Application  
**2018/395**

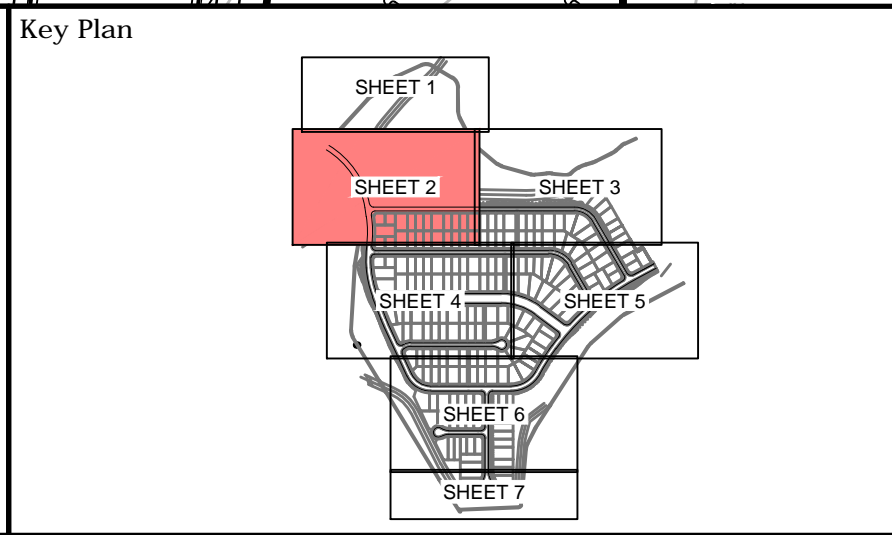
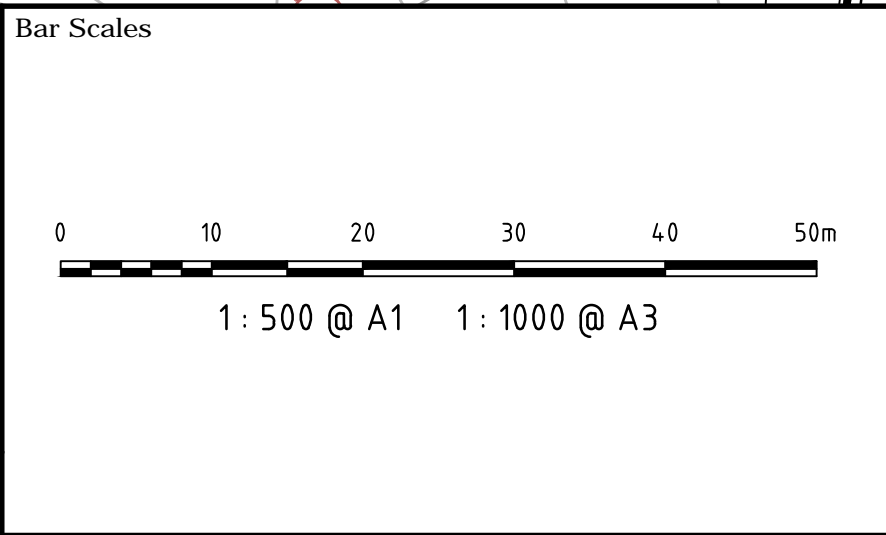
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**COPY ONLY CHECK SCALE**

K	ISSUE FOR APPROVAL	16-06-20
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I	ISSUE FOR APPROVAL	03-05-19
H	ISSUE FOR APPROVAL	18-03-19
G	ISSUE FOR APPROVAL	07-03-19
F	ISSUE FOR APPROVAL	24-01-19
E	ISSUE FOR APPROVAL	21-11-18
D	ISSUE FOR APPROVAL	16-10-18
C	ISSUE FOR APPROVAL	05-10-18
Issue	Description	Date



Client

**BATHURST REGIONAL COUNCIL**

Scales	1:500	Drawn	QD
		Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	
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Project

**WINDRADYNE 1100**

Title

**SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 2**

Civil Engineers and Project Managers

**at&i**

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North Sydney NSW 2060  
ABN 96 130 882 405  
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www.atl.net.au  
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Status **FOR APPROVAL**

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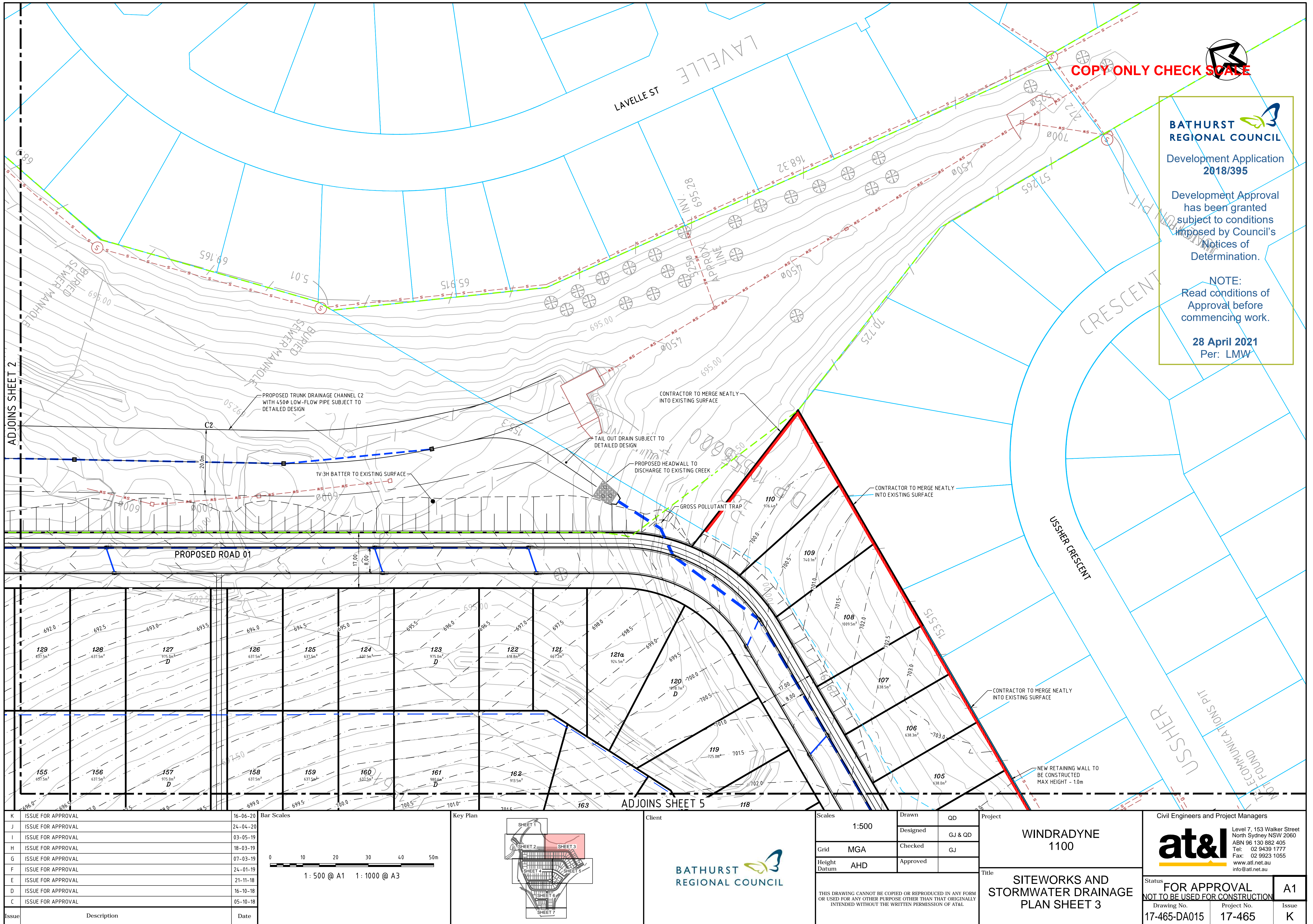
Drawing No. **17-465-DA014**

Project No. **17-465**


Issue **K**

**A1**





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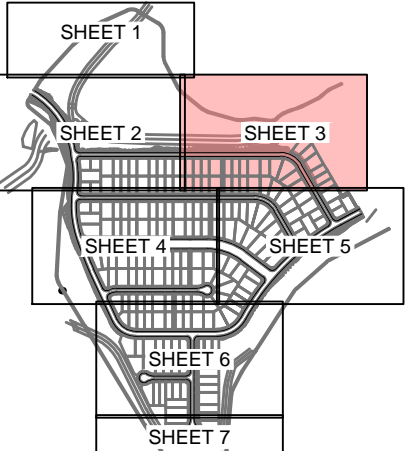
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Bar Scales
0 10 20 30 40 50m
1: 500 @ A1 1: 1000 @ A3

Key Plan



Client



Scales	1:500	Drawn	QD
Grid	MGA	Designed	GJ & QD
Height Datum	AHD	Checked	GJ
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Project

WINDRADYNE  
1100

Title

SITWORKS AND  
STORMWATER DRAINAGE  
PLAN SHEET 3

Civil Engineers and Project Managers



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ABN 96 130 882 405  
Tel: 02 9439 1777  
Fax: 02 9923 1055  
www.atl.net.au  
info@atl.net.au

Status

FOR APPROVAL  
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.

17-465-DA015

Project No.

17-465

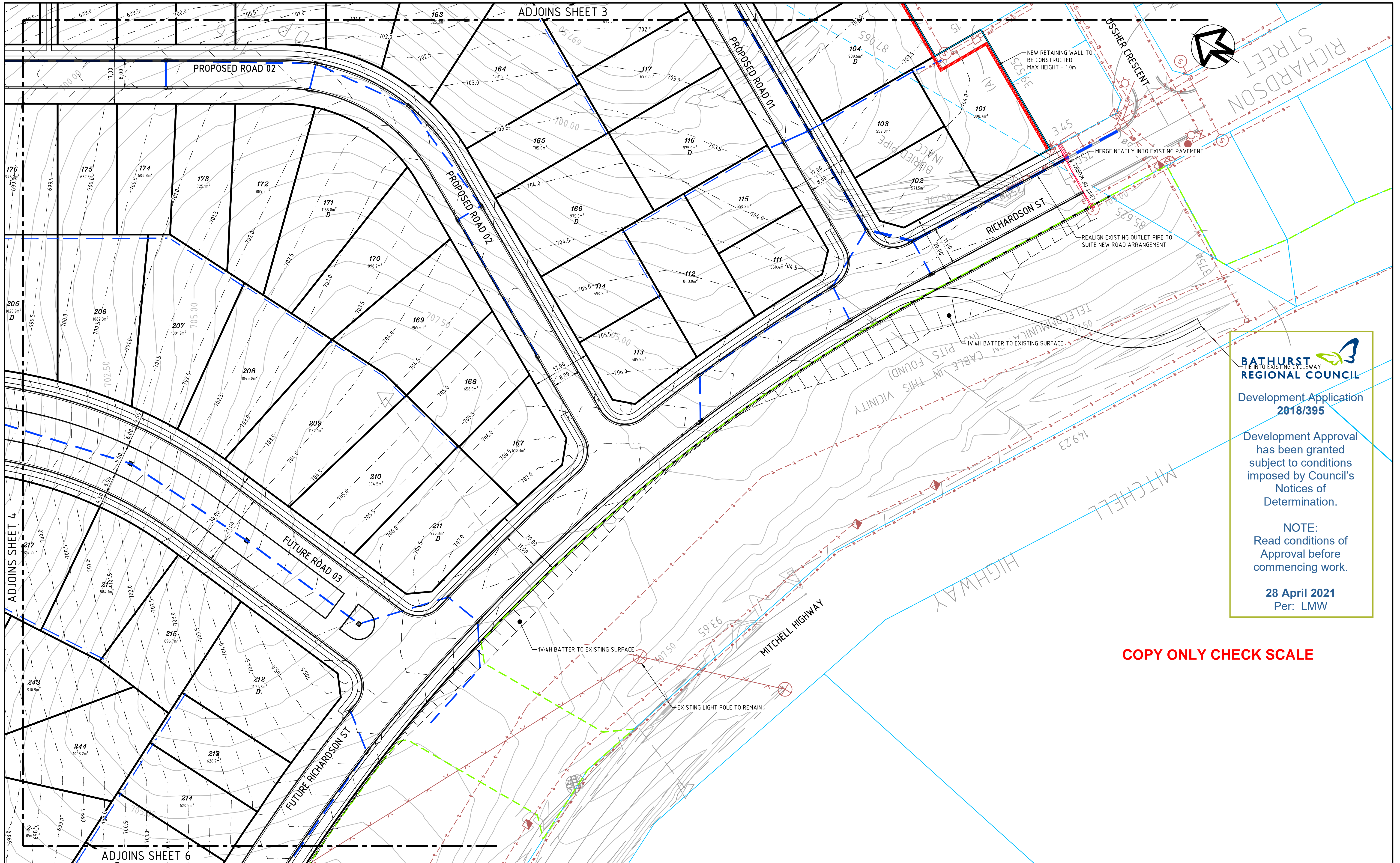
Issue

K











**BATHURST  
REGIONAL COUNCIL**





Development Application  
2018/395

Development Approval  
has been granted  
subject to conditions  
imposed by Council's  
Notices of  
Determination.

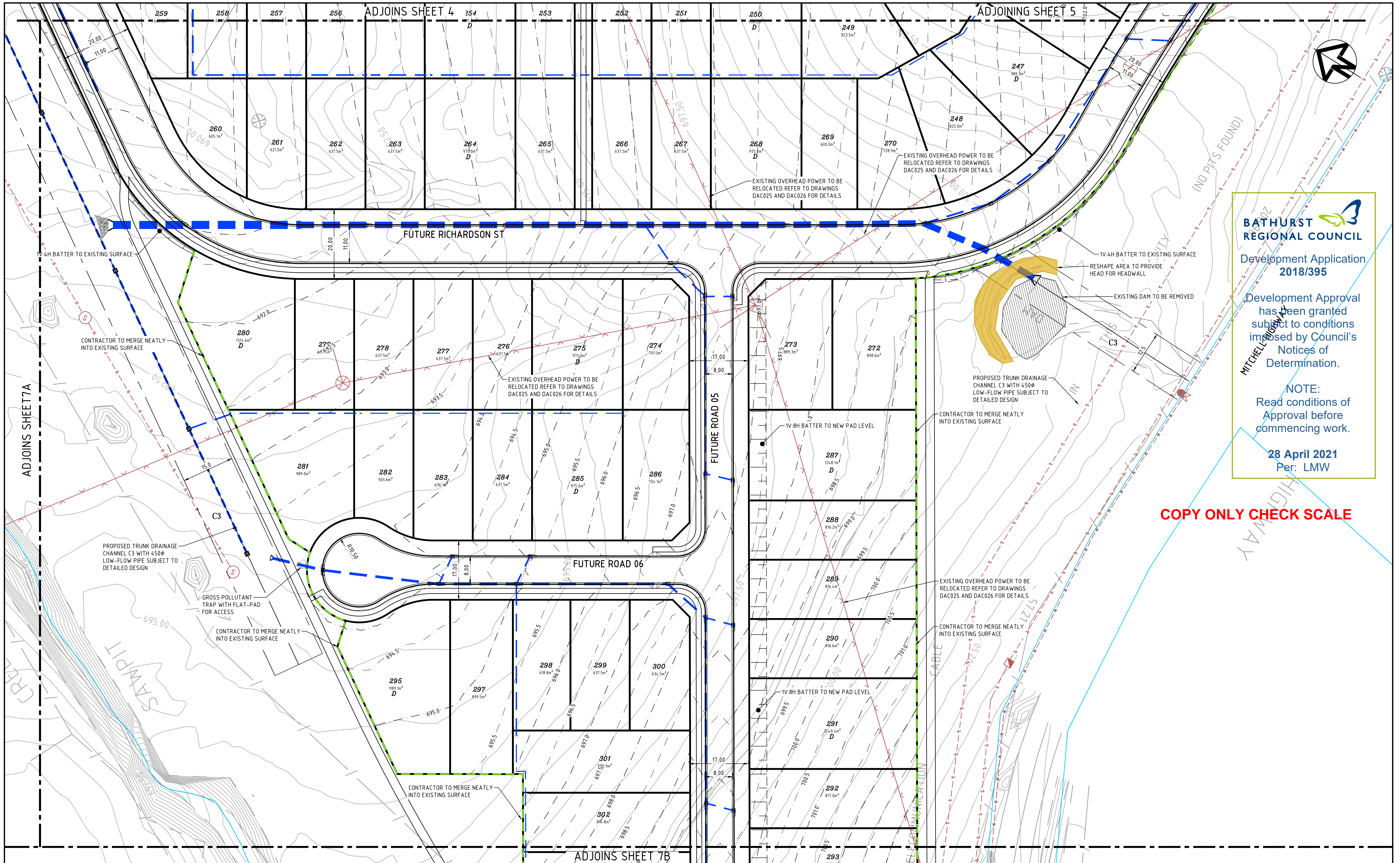
NOTE:  
Read conditions of  
Approval before  
commencing work.

**28 April 2021**  
Per: LMW

COPY ONLY CHECK SCALE

<table><tr><td>K</td><td>ISSUE FOR APPROVAL</td><td>16-06-20</td></tr><tr><td>J</td><td>ISSUE FOR APPROVAL</td><td>24-04-20</td></tr><tr><td>I</td><td>ISSUE FOR APPROVAL</td><td>03-05-19</td></tr><tr><td>H</td><td>ISSUE FOR APPROVAL</td><td>18-03-19</td></tr><tr><td>G</td><td>ISSUE FOR APPROVAL</td><td>07-03-19</td></tr><tr><td>F</td><td>ISSUE FOR APPROVAL</td><td>24-01-19</td></tr><tr><td>E</td><td>ISSUE FOR APPROVAL</td><td>21-11-18</td></tr><tr><td>D</td><td>ISSUE FOR APPROVAL</td><td>16-10-18</td></tr><tr><td>C</td><td>ISSUE FOR APPROVAL</td><td>05-10-18</td></tr><tr><td>Issue</td><td>Description</td><td>Date</td></tr></table>			K	ISSUE FOR APPROVAL	16-06-20	J	ISSUE FOR APPROVAL	24-04-20	I	ISSUE FOR APPROVAL	03-05-19	H	ISSUE FOR APPROVAL	18-03-19	G	ISSUE FOR APPROVAL	07-03-19	F	ISSUE FOR APPROVAL	24-01-19	E	ISSUE FOR APPROVAL	21-11-18	D	ISSUE FOR APPROVAL	16-10-18	C	ISSUE FOR APPROVAL	05-10-18	Issue	Description	Date	<p>Bar Scales</p> <p>0 10 20 30 40 50m</p> <p>1: 500 @ A1 1: 1000 @ A3</p>		<p>Key Plan</p> 		<p>Client</p> <p></p>		<table><tr><td rowspan="3">Scales</td><td>1:500</td><td>Drawn</td><td>QD</td></tr><tr><td rowspan="2">MGA</td><td>Designed</td><td>GJ &amp; QD</td></tr><tr><td>Checked</td><td>GJ</td></tr><tr><td>Height Datum</td><td>AHD</td><td>Approved</td><td></td></tr></table> <p>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&amp;I</p>		Scales	1:500	Drawn	QD	MGA	Designed	GJ & QD	Checked	GJ	Height Datum	AHD	Approved		<table><tr><td colspan="2">Project</td><td rowspan="2">Title</td></tr><tr><td colspan="3">WINDRADYNE 1100</td></tr><tr><td colspan="2">SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5</td><td></td></tr></table>		Project		Title	WINDRADYNE 1100			SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5			<table><tr><td colspan="3">Civil Engineers and Project Managers</td></tr><tr><td colspan="3"></td></tr><tr><td colspan="3">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</td></tr><tr><td>Status</td><td>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</td><td>A1</td></tr><tr><td>Drawing No.</td><td>17-465-DA017</td><td>Issue</td></tr><tr><td>Project No.</td><td>17-465</td><td>K</td></tr></table>			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	A1	Drawing No.	17-465-DA017	Issue	Project No.	17-465	K
K	ISSUE FOR APPROVAL	16-06-20																																																																																			
J	ISSUE FOR APPROVAL	24-04-20																																																																																			
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**BATHURST  
REGIONAL COUNCIL**

Development Application  
**2018/395**

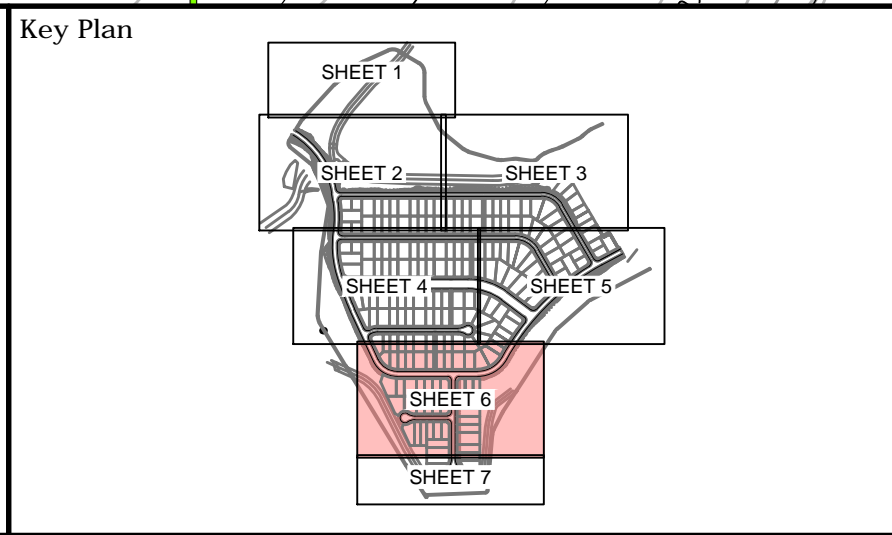
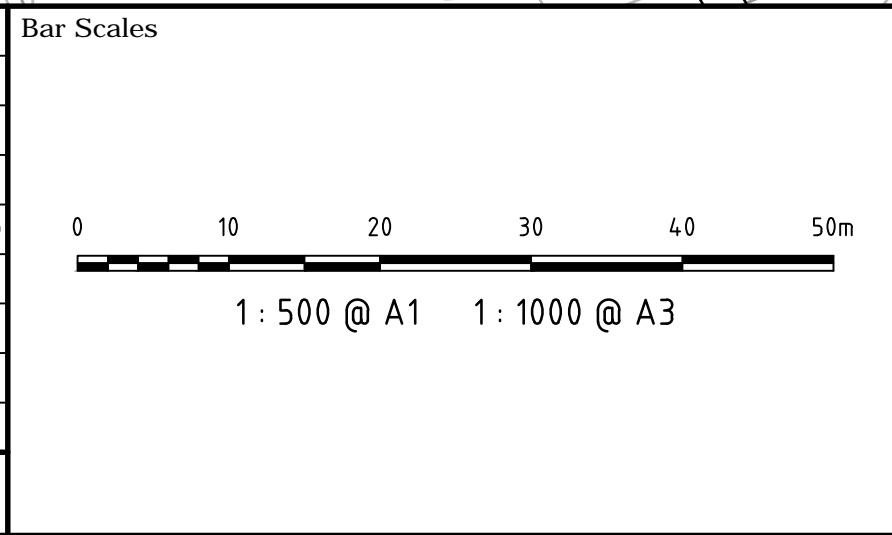
Development Approval  
has been granted  
subject to conditions  
imposed by Council's  
Notices of  
Determination.

NOTE:  
Read conditions of  
Approval before  
commencing work.

**28 April 2021**  
Per: LMW

COPY ONLY CHECK SCALE

Issue	Description	Date
F	ISSUE FOR APPROVAL	16-06-20
E	ISSUE FOR APPROVAL	24-04-20
D	ISSUE FOR APPROVAL	03-05-19
C	ISSUE FOR APPROVAL	18-03-19
B	ISSUE FOR APPROVAL	07-03-19
A	ISSUE FOR APPROVAL	24-01-19



Client



Scales	1:500	Drawn	QD
		Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	
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			


Project

WINDRADYNE  
1100

Title

SITWORKS AND  
STORMWATER DRAINAGE  
PLAN SHEET 6

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

A1

Drawing No.

17-465-DA018

Project No.

17-465

Issue

F

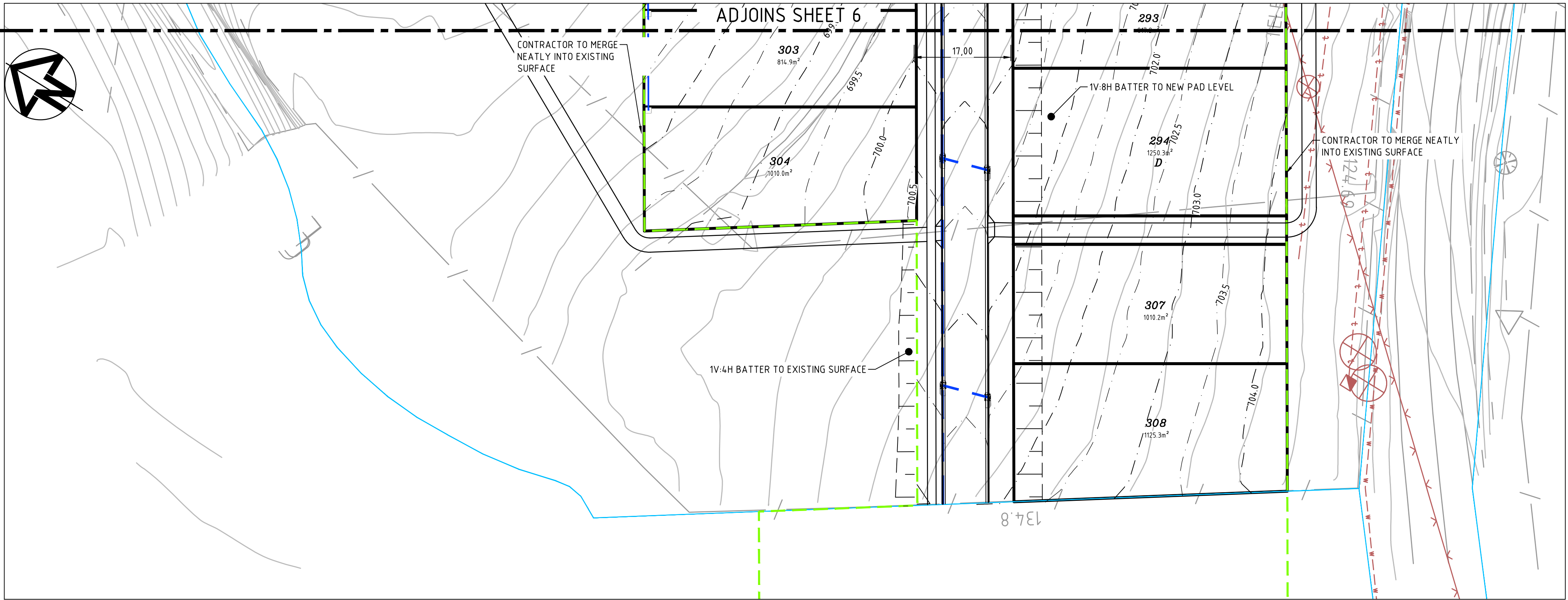


COPY ONLY CHECK SCALE

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commencing work.

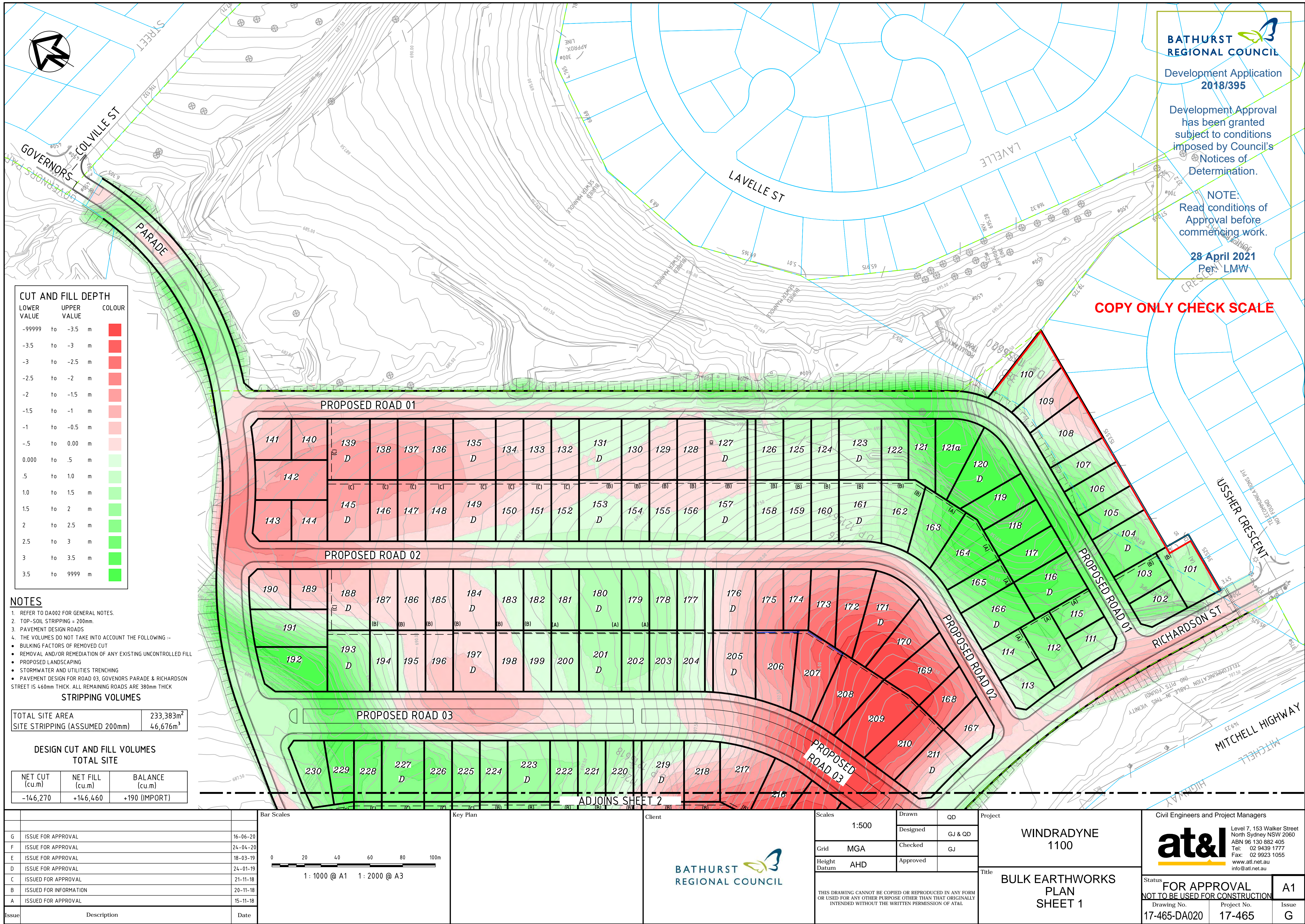
28 April 2021  
Per: LMW



SHEET 7

			Bar Scales		Key Plan	Client	Scales		Drawn	QD	Project	Civil Engineers and Project Managers									
							1:500		Designed	GJ & QD		WINDRADYNE 1100	at&l	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	Status						
F	ISSUE FOR APPROVAL	16-06-20					Grid	MGA	Checked	GJ	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 7A AND 7B					FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION					
E	ISSUE FOR APPROVAL	24-04-20					Height Datum	AHD	Approved								Title	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 7A AND 7B	Drawing No.	Project No.	Issue
D	ISSUE FOR APPROVAL	03-05-19									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	Drawing No.	Project No.	Issue							
C	ISSUE FOR APPROVAL	18-03-19																			
B	ISSUE FOR APPROVAL	07-03-19																			
A	ISSUE FOR APPROVAL	24-01-19																			
Issue	Description	Date																			





**BATHURST REGIONAL COUNCIL**

Development Application  
2018/395

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Determination.

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commencing work.

28 April 2021  
Per: LMW

CUT AND FILL DEPTH			
LOWER VALUE	UPPER VALUE	COLOUR	
-99999	to -3.5	m	
-3.5	to -3	m	
-3	to -2.5	m	
-2.5	to -2	m	
-2	to -1.5	m	
-1.5	to -1	m	
-1	to -0.5	m	
-0.5	to 0.000	m	
0.000	to .5	m	
.5	to 1.0	m	
1.0	to 1.5	m	
1.5	to 2	m	
2	to 2.5	m	
2.5	to 3	m	
3	to 3.5	m	
3.5	to 9999	m	

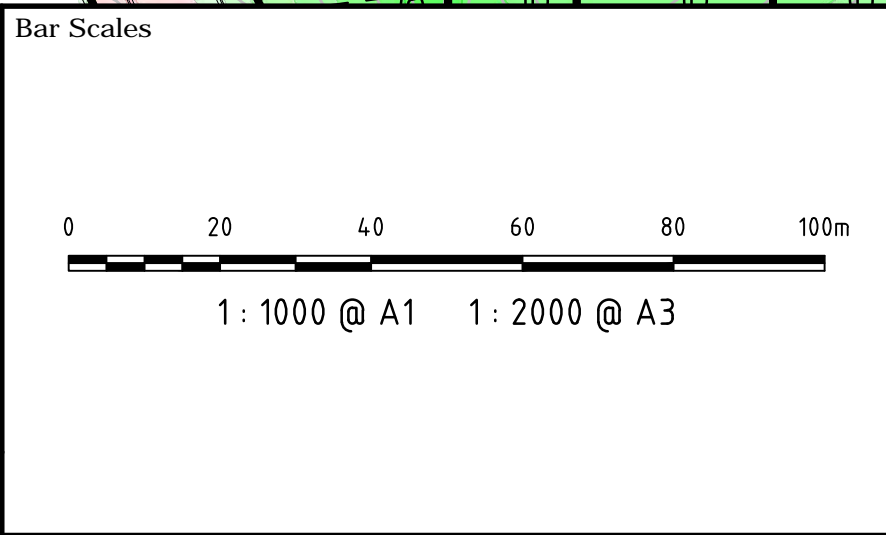
- NOTES**
- REFER TO DA002 FOR GENERAL NOTES.
  - TOP-SOIL STRIPPING = 200mm.
  - PAVEMENT DESIGN ROADS
  - THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING -
    - BULKING FACTORS OF REMOVED CUT
    - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
    - PROPOSED LANDSCAPING
    - STORMWATER AND UTILITIES TRENCHING
    - PAVEMENT DESIGN FOR ROAD 03, GOVERNORS PARADE & RICHARDSON STREET IS 460mm THICK. ALL REMAINING ROADS ARE 380mm THICK

TOTAL SITE AREA	233,383m <sup>2</sup>
SITE STRIPPING (ASSUMED 200mm)	46,676m <sup>3</sup>

DESIGN CUT AND FILL VOLUMES  
TOTAL SITE

NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-146,270	+146,460	+190 (IMPORT)

Issue	Description	Date
G	ISSUE FOR APPROVAL	16-06-20
F	ISSUE FOR APPROVAL	24-04-20
E	ISSUE FOR APPROVAL	18-03-19
D	ISSUE FOR APPROVAL	24-01-19
C	ISSUED FOR APPROVAL	21-11-18
B	ISSUED FOR INFORMATION	20-11-18
A	ISSUED FOR APPROVAL	15-11-18



Key Plan

Client

Scales	1:500	Drawn	QD
		Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	
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Project

WINDRADYNE 1100

Title

BULK EARTHWORKS  
PLAN  
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

Drawing No.

17-465-DA020

Project No.

17-465

Issue

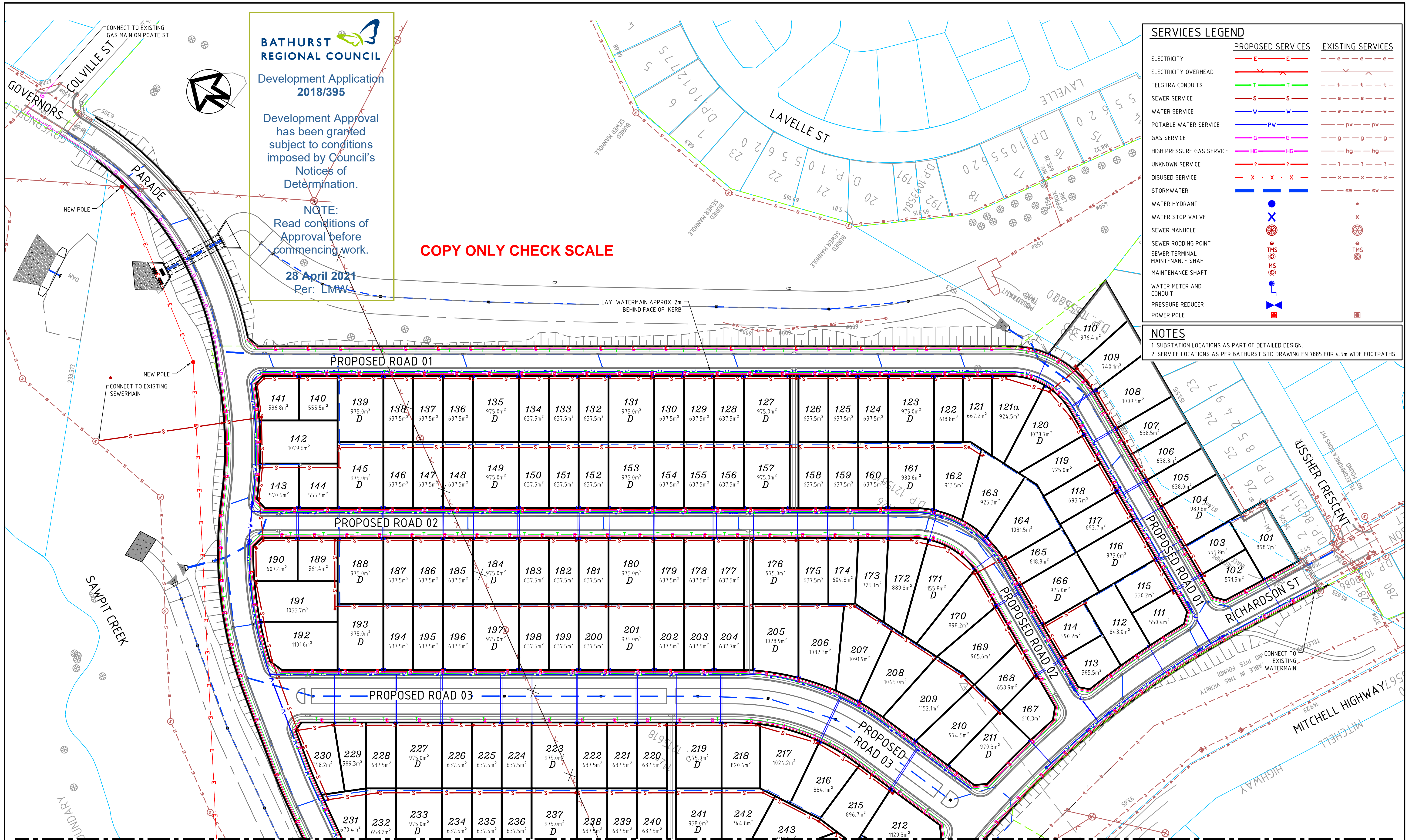
G

A1









L	ISSUE FOR APPROVAL	16-06-20	Bar Scales	Key Plan	Client	Scales	1:1000	Drawn	QD	Project	WINDRADYNE 1100	Civil Engineers and Project Managers
K	ISSUE FOR APPROVAL	24-04-20				Grid	MGA	Designed	GJ & QD			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
K	ISSUE FOR APPROVAL	03-05-19				Height Datum	AHD	Checked	GJ			at&l
J	ISSUE FOR APPROVAL	18-03-19						Approved				FOR APPROVAL
I	ISSUE FOR APPROVAL	07-03-19										NOT TO BE USED FOR CONSTRUCTION
H	ISSUE FOR APPROVAL	24-01-19										Issue
G	ISSUE FOR APPROVAL	21-11-18										L
F	ISSUE FOR APPROVAL	09-11-18										
E	ISSUE FOR APPROVAL	02-11-18										
Issue	Description	Date										



[illegible]

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY		
ELECTRICITY OVERHEAD		
TELSTRA CONDUITS		
SEWER SERVICE		
WATER SERVICE		
POTABLE WATER SERVICE		
GAS SERVICE		
HIGH PRESSURE GAS SERVICE		
UNKNOWN SERVICE		
DISUSED SERVICE		
STORMWATER		
WATER HYDRANT		
WATER STOP VALVE		
SEWER MANHOLE		
SEWER RODDING POINT		
SEWER TERMINAL MAINTENANCE SHAFT		
MAINTENANCE SHAFT		
WATER METER AND CONDUIT		
PRESSURE REDUCER		
POWER POLE		

1. SUBSTATION LOCATIONS AS PART OF DETAILED DESIGN.
2. SERVICE LOCATIONS AS PER BATHURST STD DRAWING EN 7885 FOR 4.5m WIDE FOOTPATHS.

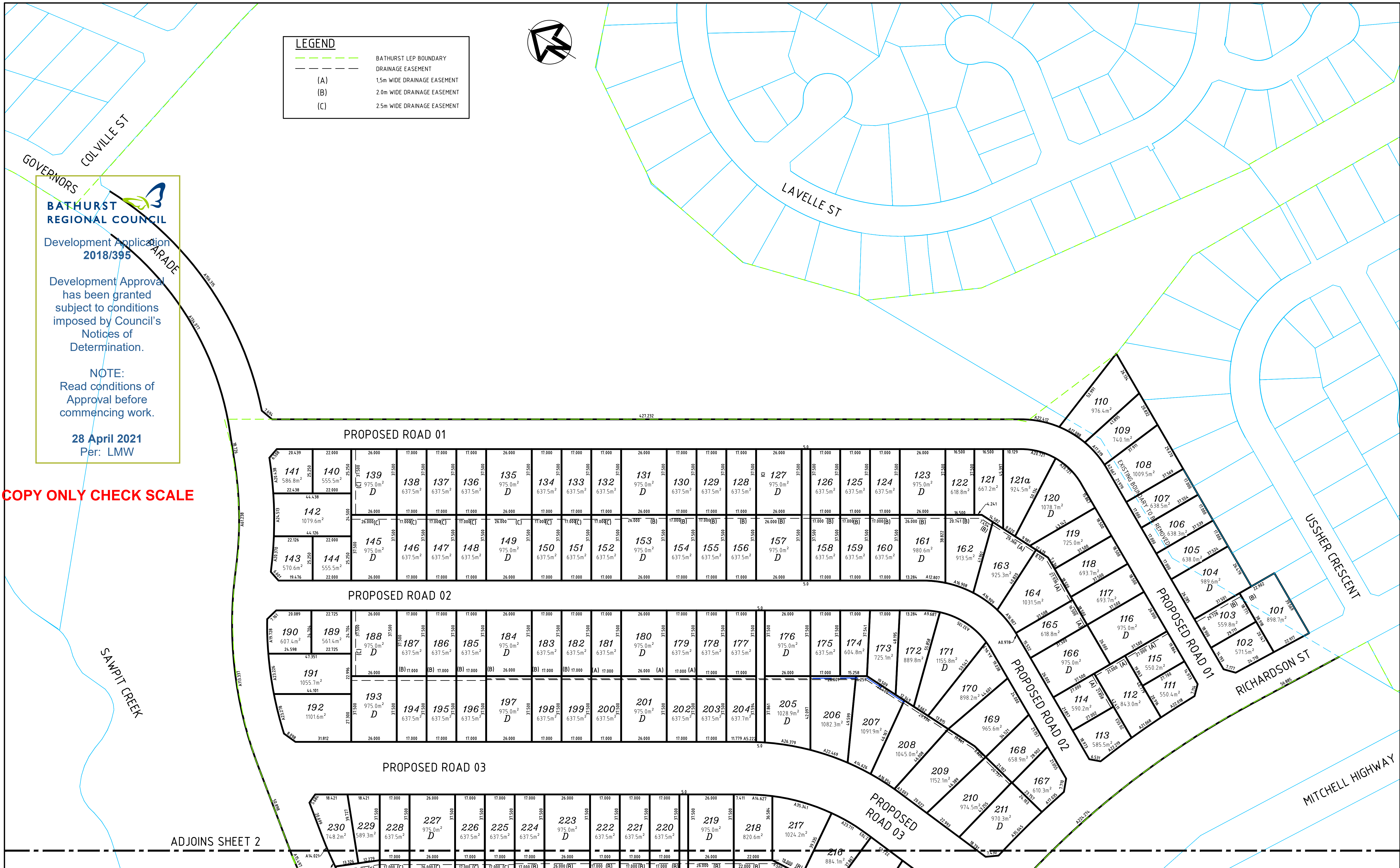


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**COPY ONLY CHECK SCALE**

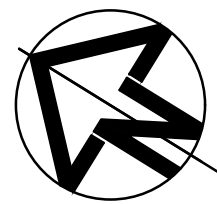
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L	ISSUE FOR APPROVAL	16-06-20	Bar Scales	Key Plan	Client	Scales	1:1000	Drawn	QD	Project	WINDRADYNE 1100	Civil Engineers and Project Managers
K	ISSUE FOR APPROVAL	24-04-20						Designed	GJ & QD			at&I
L	ISSUE FOR APPROVAL	24-02-20						Checked	GJ			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
K	ISSUE FOR APPROVAL	08-01-20						Approved				FOR APPROVAL
J	ISSUE FOR APPROVAL	18-03-19										NOT TO BE USED FOR CONSTRUCTION
I	ISSUE FOR APPROVAL	07-03-19										Issue
H	ISSUE FOR APPROVAL	28-02-19										
G	ISSUE FOR APPROVAL	20-02-19										
F	ISSUE FOR APPROVAL	24-01-19										
Issue	Description	Date										





ADJOINS SHEET 1

**BATHURST  
REGIONAL COUNCIL**

Development Application  
**2018/395**

Development Approval  
has been granted  
subject to conditions  
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Determination.

NOTE:  
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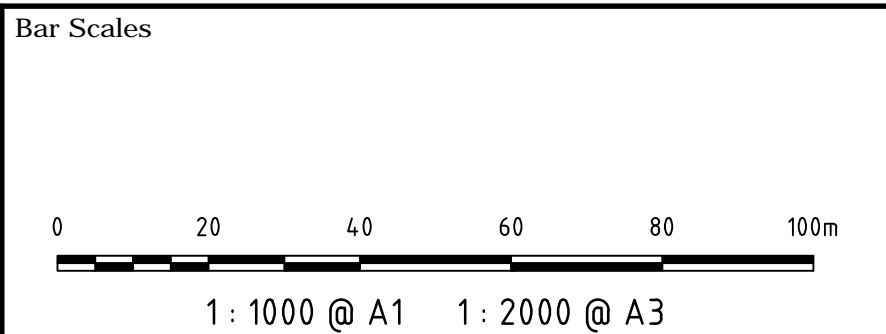
**28 April 2021**  
Per: LMW

**COPY ONLY CHECK SCALE**

**LEGEND**

	BATHURST LEP BOUNDARY
	DRAINAGE EASEMENT
(A)	1.5m WIDE DRAINAGE EASEMENT
(B)	2.0m WIDE DRAINAGE EASEMENT
(C)	2.5m WIDE DRAINAGE EASEMENT

J	ISSUE FOR APPROVAL	16-06-20
I	ISSUE FOR APPROVAL	24-04-20
H	ISSUE FOR APPROVAL	24-02-20
G	ISSUE FOR APPROVAL	08-01-20
F	ISSUE FOR APPROVAL	18-03-19
E	ISSUE FOR APPROVAL	14-03-19
D	ISSUE FOR APPROVAL	07-03-19
C	ISSUE FOR APPROVAL	28-02-19
B	ISSUE FOR APPROVAL	20-02-19
Issue	Description	Date



Key Plan
----------

Client

Scales	1:1000
Grid	MGA
Height Datum	AHD
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Drawn	QD
Designed	GJ & QD
Checked	GJ
Approved	
Project	WINDRADYNE 1100
Title	LOT LAYOUT PLAN SHEET 2

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.ati.net.au info@ati.net.au		
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	17-465-DA031	Issue J
Project No.	17-465	