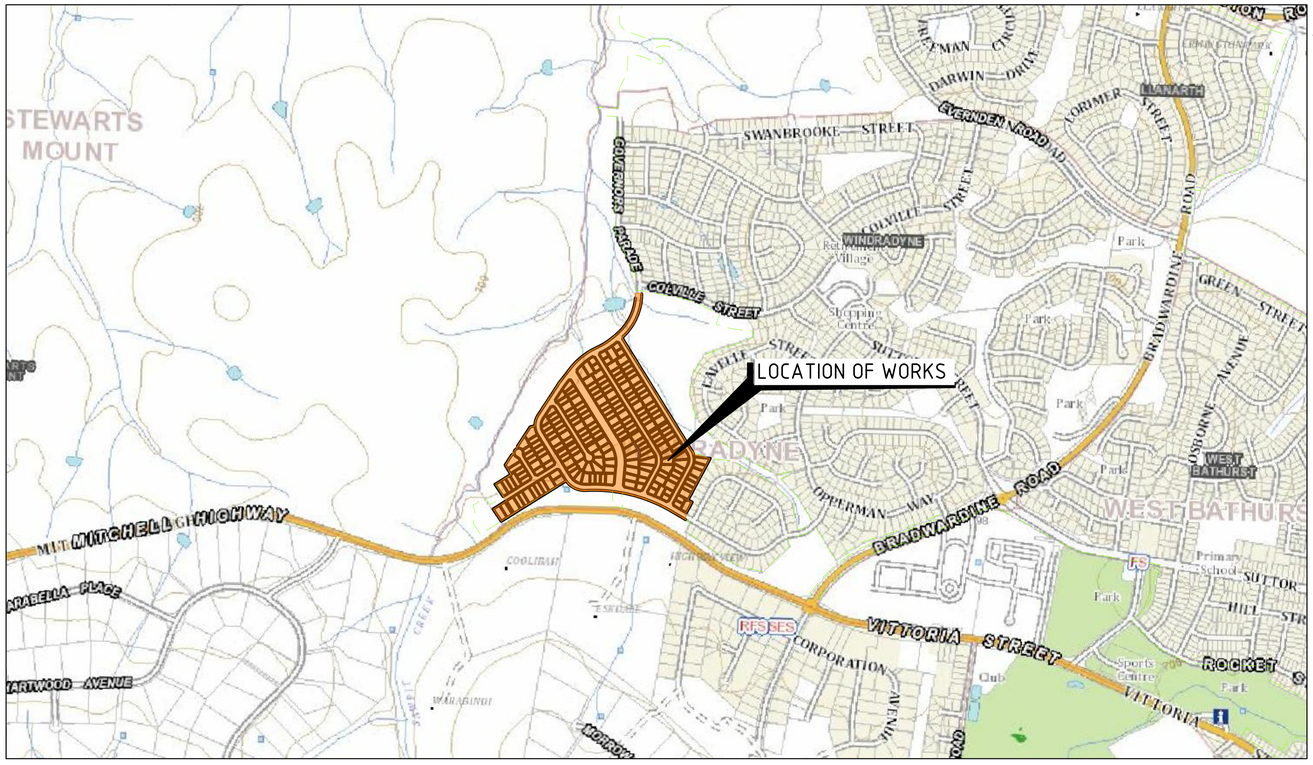
PROPOSED SUBDIVISION
WINDRADYNE 1100
CIVIL WORKS PACKAGE

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

Issue	Description	Date
J	ISSUE FOR APPROVAL	16-06-20
I	ISSUE FOR APPROVAL	24-04-20
H	ISSUE FOR APPROVAL	18-03-19
G	ISSUE FOR APPROVAL	07-03-19
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D	ISSUE FOR APPROVAL	16-10-18
C	ISSUE FOR APPROVAL	05-10-18
B	ISSUE FOR APPROVAL	14-09-18

Bar Scales

100mm on Original

Key Plan

Client
BATHURST REGIONAL COUNCIL

Scales: NTS
Grid: MGA
Height Datum: AHD

Drawn	QD
Designed	GJ & QD
Checked	GJ
Approved	

Project
WINDRADYNE 1100

Title
COVER SHEET AND LOCALITY PLAN

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Drawing No.	Project No.	Issue
17-465-DA001	17-465	J

Date Plotted: 16 Jun 2020 - 05:50PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA001.dwg

SITEWORKS LEGEND

EXISTING

- EXISTING BOUNDARY
- EXISTING FENCE
- 688.00 EXISTING CONTOUR

PROPOSED SITEWORKS

- EXISTING BOUNDARY TO BE REMOVED
- PROPOSED BOUNDARY
- PROPOSED FOOTPATH
- PROPOSED CYCLEWAY
- K&G PROPOSED KERB AND GUTTER
- PROPOSED PRAM RAMP
- 687.5 PROPOSED CONTOUR (0.5m INTERVAL)
- RERTAINING WALL
- PROPOSED STORMWATER PIPE AND PIT
- SURFACE INLET PIT
- GROSS POLLUTANT TRAP
- TOP OF BANK / BOTTOM OF BANK PROPOSED BATTERS
- LIMIT OF WORKS

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 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)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
8. 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^3 OF BASECOURSE MATERIAL PLACED.
9. 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 A.S 1289 5.2.1
   FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^3 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 RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

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

DIAL 1100 BEFORE YOU DIG

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.T.A. SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
   R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
   SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

   NUMBER OF BARS IN GROUP — BAR GRADE AND TYPE
   17 N 20 250
   NOMINAL BAR SIZE IN mm — SPACING IN mm

   THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.
8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

STORMWATER DRAINAGE NOTES

1. 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_{100} =1.0
   EXTERNAL PAVEMENTS: C_{20} =0.95
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. 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)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
15. 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

1. 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
2. ALL REDUCED LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (A.H.D)
3. ORIGIN OF LEVELS SSM 82191 RL 704.034 (A.H.D) END OF RICHARDSON STREET
4. ORIGIN OF LEVELS SSM 82191 RL 704.034 (A.H.D) END OF RICHARDSON STREET
5. CONTOUR INTERVAL IS 0.5m.
6. 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.
7. NOT ALL SERVICE INFORMATION MAY BE SHOWN DUE TO UNAVAILABILITY OF SERVICE PLANS OR CURRENT INFORMATION.
8. 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.
9. 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.
10. CONTOURS SHOWN DEPICT THE TOPOGRAPHY. CONTOURS DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT, EXCEPT AT SPOT LEVELS SHOWN.
11. 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.
12. 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.
13. 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

(A) 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

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :–
   EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.

   EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

   EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENTS
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 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 SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (B) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   (C) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   (D) 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.

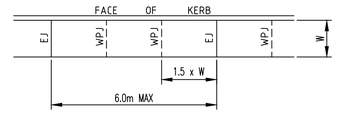
OTHER MATTERS

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.

JOINTING NOTES

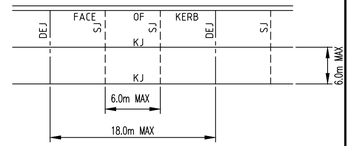
PEDESTRIAN PAVEMENT JOINTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. PEDESTRIAN PAVEMENT JOINT DETAIL.



VEHICULAR PAVEMENT JOINTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
7. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES
9. 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.

Issue	Description	Date
I	ISSUE FOR APPROVAL	16-06-20
H	ISSUE FOR APPROVAL	24-04-20
G	ISSUE FOR APPROVAL	18-03-19
F	ISSUE FOR APPROVAL	24-01-19
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D	ISSUE FOR APPROVAL	16-10-18
C	ISSUE FOR APPROVAL	05-10-18
B	ISSUE FOR APPROVAL	14-09-18
A	ISSUE FOR COMMENT	05-04-18

Bar Scales

Key Plan

Client: BATHURST REGIONAL COUNCIL

Scales: NTS
Grid: MGA
Height Datum: AHD

Drawn	QD
Designed	GJ & QD
Checked	GJ
Approved	

Project: WINDRADYNE 1100

Title: GENERAL NOTES AND LEGENDS

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA002	17-465	I

100mm on Original

Date Plotted: 16 Jun 2020 – 05:51PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA002.dwg

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

LEGEND

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

Issue	Description	Date
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

Bar Scales

0 50 100 150 200m

1 : 2000 @ A1

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales	1:2000	Drawn	QD
		Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	

Project

WINDRADYNE
1100

Title

GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA003	17-465	K

100mm on Original

Date Plotted: 16 Jun 2020 - 05:51PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA003.dwg

FOR CONTINUATION SEE INSET A

FOR CONTINUATION SEE ABOVE

INSET A

COLVILLE ST

STREET

GOVERNORS PARADE

LIMIT OF WORKS

PARADE

DAM

LAVELLE ST

CRESCENT

USSHER CRESCENT

PROPOSED ROAD 01

PROPOSED ROAD 02

PROPOSED ROAD 03

RICHARDSON ST

MITCHELL HIGHWAY

SAWPIT CREEK

ADJOINS SHEET 2

LEGEND

EXISTING BOUNDARY

PROPOSED BOUNDARY

Issue	Description	Date
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

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales	1:1000
Grid	MGA
Height Datum	AHD

Drawn	QD
Designed	GJ & QD
Checked	GJ
Approved	

Project

WINDRADYNE
1100

Title

TOTAL SITE
GRADING PLAN
SHEET 1

Civil Engineers and Project Managers

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Status

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA011	17-465	K

Date Plotted: 16 Jun 2020 - 05:51PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA011.dwg

ADJOINS SHEET 1

PROPOSED ROAD 04

PROPOSED RICHARDSON ST

PROPOSED ROAD 05

PROPOSED ROAD 06

MITCHELL HIGHWAY

SAWPIT CREEK

BOUNDARY

LEGEND

EXISTING BOUNDARY

PROPOSED BOUNDARY

Issue	Description	Date
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

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales 1:1000

Grid MGA

Height Datum AHD

Drawn QD

Designed GJ & QD

Checked GJ

Approved

Project

WINDRADYNE
1100

Title

TOTAL SITE
GRADING PLAN
SHEET 2

Civil Engineers and Project Managers

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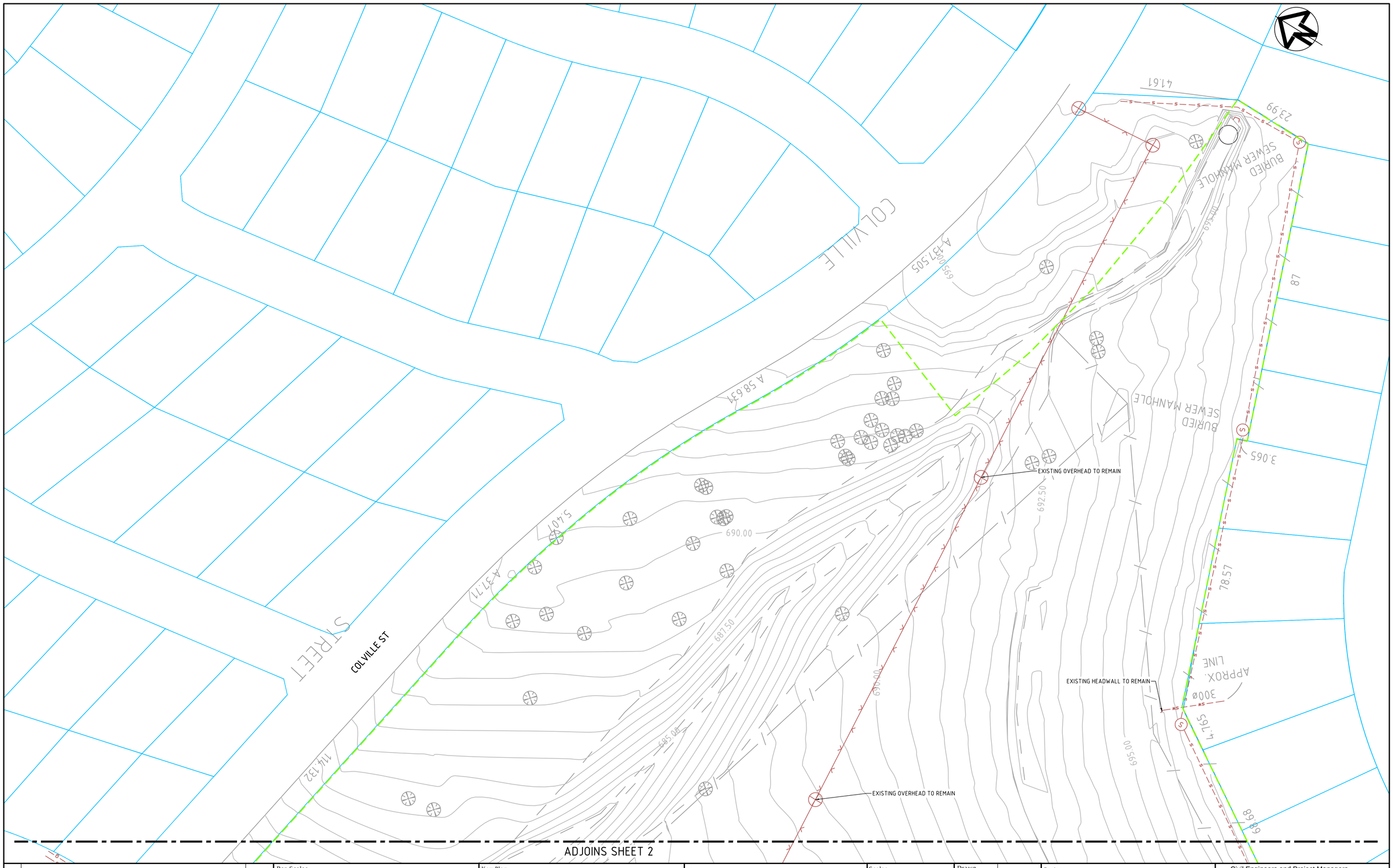
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA012	17-465	K

Date Plotted: 16 Jun 2020 - 05:52PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA012.dwg



Issue	Description	Date
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

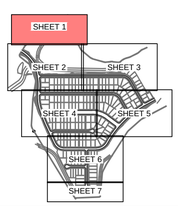
100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

BATHURST REGIONAL COUNCIL

Scales: 1:500

Grid: MGA

Height Datum: AHD

Drawn: QD

Designed: GJ & QD

Checked: GJ

Approved:

Project

WINDRADYNE
1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA013	17-465	E

Date Plotted: 16 Jun 2020 - 05:52PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA013.dwg

ADJOINS SHEET 1

GOVERNORS PARADE

LAND WITHIN THIS AREA TO BE SHAPED TO TRUNK DRAINAGE CULVERT

1V:4H BATTER TO EXISTING SURFACE

MERGE NEATLY INTO EXISTING PAVEMENT

LIMIT OF WORKS

GOVERNORS PARADE

1V:4H BATTER TO EXISTING SURFACE

EXISTING OVERHEAD TO REMAIN

PROVIDE NEW STORMWATER CULVERT FOR EXTERNAL CATCHMENT FLOW

PROVIDE TRASH RACK IN ACCORDANCE WITH BRC ENGINEERING GUIDELINES

PROPOSED SWALE REALIGNMENT DISCHARGE TO HEADWALL INLET

PROPOSED STEP IN SWALE TO ALLOW LOW-FLOW DISCHARGE

EXISTING DAM TO BE MODIFIED TO SUIT TAIL-OUT DRAIN ALIGNMENT

15m

30m

LOW FLOW PIPE

HIGH FLOW WEIR

EXISTING DAM

DAM

PROVIDE ENERGY DISSIPATORS (SUBJECT TO DETAILED DESIGN)

3x2100x1200 RCBC

PROPOSED HEADWALLS TO DISCHARGE TO EXISTING DAM

11.0m

20.00

1V:4H BATTER TO EXISTING SURFACE

PROPOSED TRUNK DRAINAGE CHANNEL C2 WITH 450ø LOW-FLOW PIPE SUBJECT TO DETAILED DESIGN

C2

20.0m

1V:3H BATTER TO EXISTING SURFACE

PROPOSED ROAD 01

17.00

8.00

EXISTING OVERHEAD POWER TO BE RELOCATED REFER TO DRAWINGS DAC025 AND DAC026 FOR DETAILS

1V:4H BATTER TO EXISTING SURFACE

141 586.8m²

140 555.5m²

139 975.0m² D

138 637.5m²

137 637.5m²

136 637.5m²

135 975.0m² D

134 637.5m²

133 637.5m²

132 637.5m²

131 975.0m² D

130 637.5m²

142 1079.6m²

145 975.0m² D

146 637.5m²

147 637.5m²

148 637.5m²

149 975.0m² D

150 637.5m²

151 637.5m²

152 637.5m²

153 975.0m² D

154 637.5m²

143 570.6m²

144

ADJOINS SHEET 4

ADJOINS SHEET 3

BURIED SEWER MANHOLE

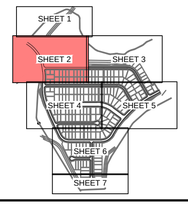
Issue	Description	Date
K	ISSUE FOR APPROVAL	16-06-20
J	ISSUE FOR APPROVAL	24-04-20
I	ISSUE FOR APPROVAL	03-05-19
H	ISSUE FOR APPROVAL	18-03-19
G	ISSUE FOR APPROVAL	07-03-19
F	ISSUE FOR APPROVAL	24-01-19
E	ISSUE FOR APPROVAL	21-11-18
D	ISSUE FOR APPROVAL	16-10-18
C	ISSUE FOR APPROVAL	05-10-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

BATHURST REGIONAL COUNCIL

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

Project

WINDRADYNE 1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

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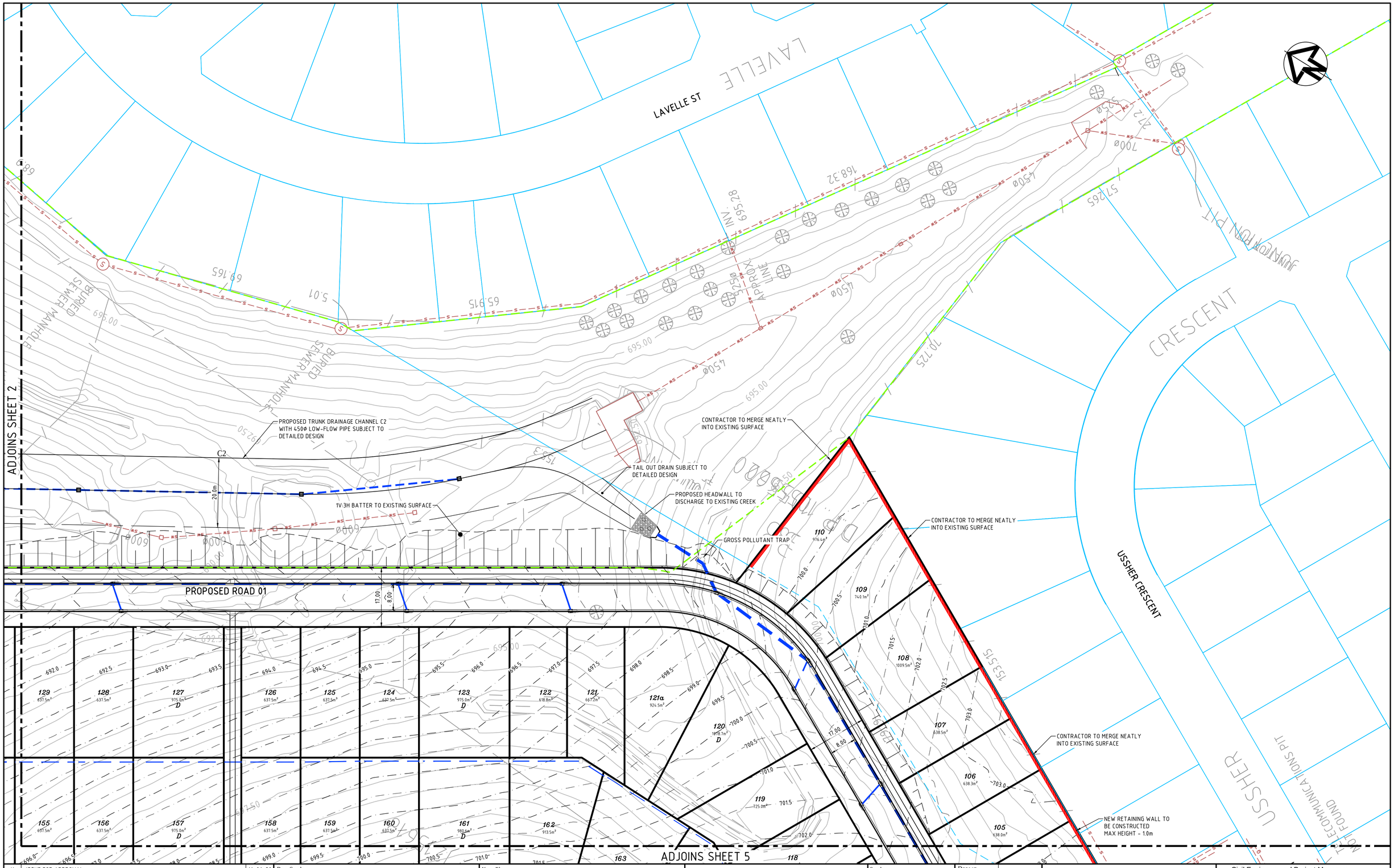
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA014	17-465	K

100mm on Original

Date Plotted: 16 Jun 2020 - 05:52PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA014.dwg



Issue	Description	Date
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

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

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

Project

WINDRADYNE
1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA015	17-465	K

100mm on Original

Date Plotted: 16 Jun 2020 - 05:53PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA015.dwg

ADJOINS SHEET 2

PROPOSED ROAD 02

GROSS POLLUTANT TRAP WITH FLAT-PAD FOR ACCESS

PROPOSED SCOUR TO MATCH EXISTING LEVELS

1V:4H BATTER TO EXISTING SURFACE

GOVERNORS PARADE

EXISTING OVERHEAD POWER TO BE RELOCATED REFER TO DRAWINGS DAC025 AND DAC026 FOR DETAILS

FUTURE ROAD 03

1V:4H BATTER TO EXISTING SURFACE

FUTURE RICHARDSON ST

1V:4H BATTER TO EXISTING SURFACE

FUTURE ROAD 04

ADJOINS SHEET 5

ADJOINS SHEET 7A

ADJOINS SHEET 6

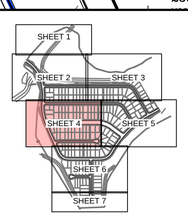
Issue	Description	Date
K	ISSUE FOR APPROVAL	16-06-20
J	ISSUE FOR APPROVAL	24-04-20
I	ISSUE FOR APPROVAL	03-05-19
H	ISSUE FOR APPROVAL	18-03-19
G	ISSUE FOR APPROVAL	07-03-19
F	ISSUE FOR APPROVAL	24-01-19
E	ISSUE FOR APPROVAL	21-11-18
D	ISSUE FOR APPROVAL	16-10-18
C	ISSUE FOR APPROVAL	05-10-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

BATHURST REGIONAL COUNCIL

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

Project

WINDRADYNE 1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA016	17-465	K

100mm on Original

Date Plotted: 16 Jun 2020 - 05:53PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA016.dwg

ADJOINS SHEET 3

PROPOSED ROAD 02

PROPOSED ROAD 01

PROPOSED ROAD 02

NEW RETAINING WALL TO BE CONSTRUCTED MAX HEIGHT - 1.0m

MERGE NEATLY INTO EXISTING PAVEMENT

LIMIT OF WORKS

RICHARDSON ST

REALIGN EXISTING OUTLET PIPE TO SUITE NEW ROAD ARRANGEMENT

1V:4H BATTER TO EXISTING SURFACE

TIE INTO EXISTING CYCLEWAY

1V:4H BATTER TO EXISTING SURFACE

EXISTING LIGHT POLE TO REMAIN

MITCHELL HIGHWAY

FUTURE ROAD 03

FUTURE RICHARDSON ST

ADJOINS SHEET 4

ADJOINS SHEET 6

Issue	Description	Date
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

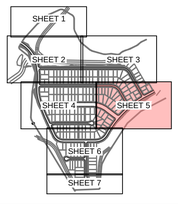
100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

BATHURST REGIONAL COUNCIL

Scales 1:500

Grid MGA

Height Datum AHD

Drawn QD

Designed GJ & QD

Checked GJ

Approved

Project

WINDRADYNE
1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 5

Civil Engineers and Project Managers

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Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA017	17-465	K

Date Plotted: 16 Jun 2020 - 05:53PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA017.dwg

ADJOINS SHEET 4

ADJOINING SHEET 5

ADJOINS SHEET7A

ADJOINS SHEET 7B

FUTURE RICHARDSON ST

FUTURE ROAD 05

FUTURE ROAD 06

MITCHELL HIGHWAY

1V:4H BATTER TO EXISTING SURFACE

CONTRACTOR TO MERGE NEATLY INTO EXISTING SURFACE

EXISTING OVERHEAD POWER TO BE RELOCATED REFER TO DRAWINGS DAC025 AND DAC026 FOR DETAILS

1V:8H BATTER TO NEW PAD LEVEL

RESHAPE AREA TO PROVIDE HEAD FOR HEADWALL

EXISTING DAM TO BE REMOVED

PROPOSED TRUNK DRAINAGE CHANNEL C3 WITH 450Φ LOW-FLOW PIPE SUBJECT TO DETAILED DESIGN

GROSS POLLUTANT TRAP WITH FLAT-PAD FOR ACCESS

(NO PITS FOUND)

SAWPIT

CABLE

TELECOMMUNICATION

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

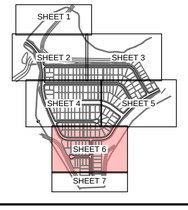
Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

100mm on Original

Key Plan



Client

BATHURST REGIONAL COUNCIL

Scales 1:500

Drawn QD

Designed GJ & QD

Grid MGA

Checked GJ

Height Datum AHD

Approved

Project

WINDRADYNE
1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 6

Civil Engineers and Project Managers

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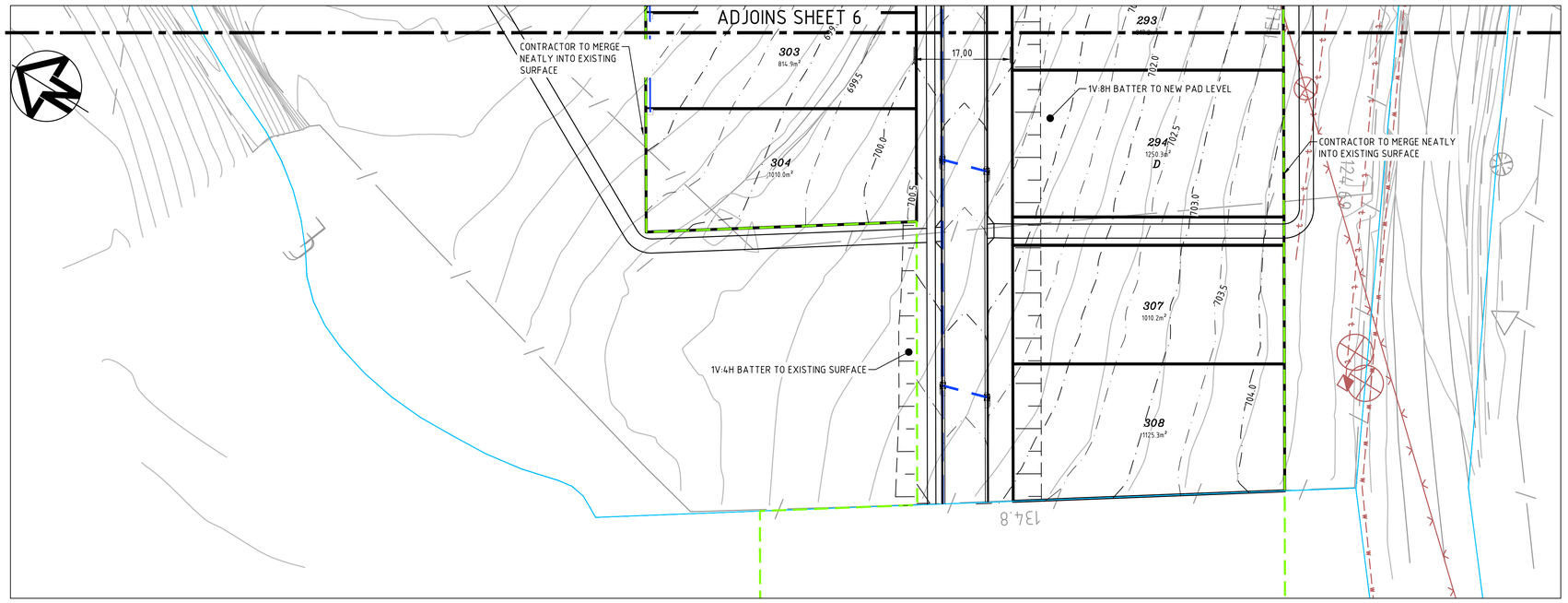
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA018	17-465	F

Date Plotted: 16 Jun 2020 - 05:54PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA018.dwg



SHEET 7

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

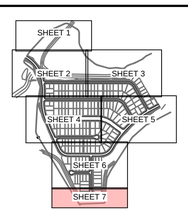
100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Key Plan



Client

BATHURST REGIONAL COUNCIL

Scales 1:500

Grid MGA

Height Datum AHD

Drawn QD

Designed GJ & QD

Checked GJ

Approved

Project

WINDRADYNE
1100

Title

SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 7A AND 7B

Civil Engineers and Project Managers

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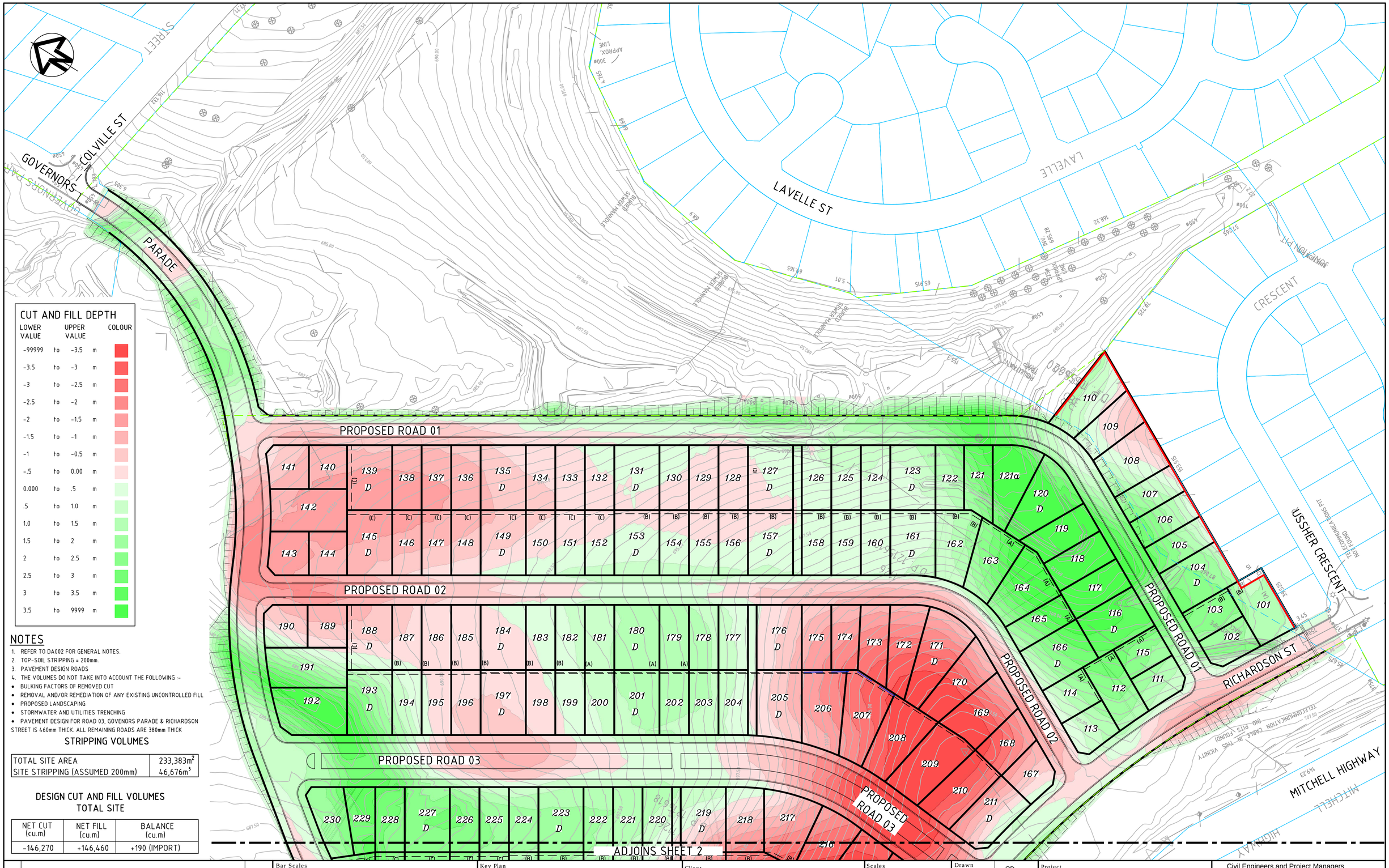
Status FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.	Project No.	Issue
17-465-DA019	17-465	F

Date Plotted: 16 Jun 2020 - 05:54PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA019.dwg



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	
-.5	to	0.00	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

1. REFER TO DA002 FOR GENERAL NOTES.
2. TOP-SOIL STRIPPING = 200mm.
3. PAVEMENT DESIGN ROADS
4. 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, GOVENORS PARADE & RICHARDSON STREET IS 460mm THICK. ALL REMAINING ROADS ARE 380mm THICK

STRIPPING VOLUMES

TOTAL SITE AREA	233,383m^2
SITE STRIPPING (ASSUMED 200mm)	46,676m^3

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

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales 1:500

Grid MGA

Height Datum AHD

Drawn QD

Designed GJ & QD

Checked GJ

Approved

Project

WINDRADYNE
1100

Title

BULK EARTHWORKS
PLAN
SHEET 1

Civil Engineers and Project Managers

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Status FOR APPROVAL
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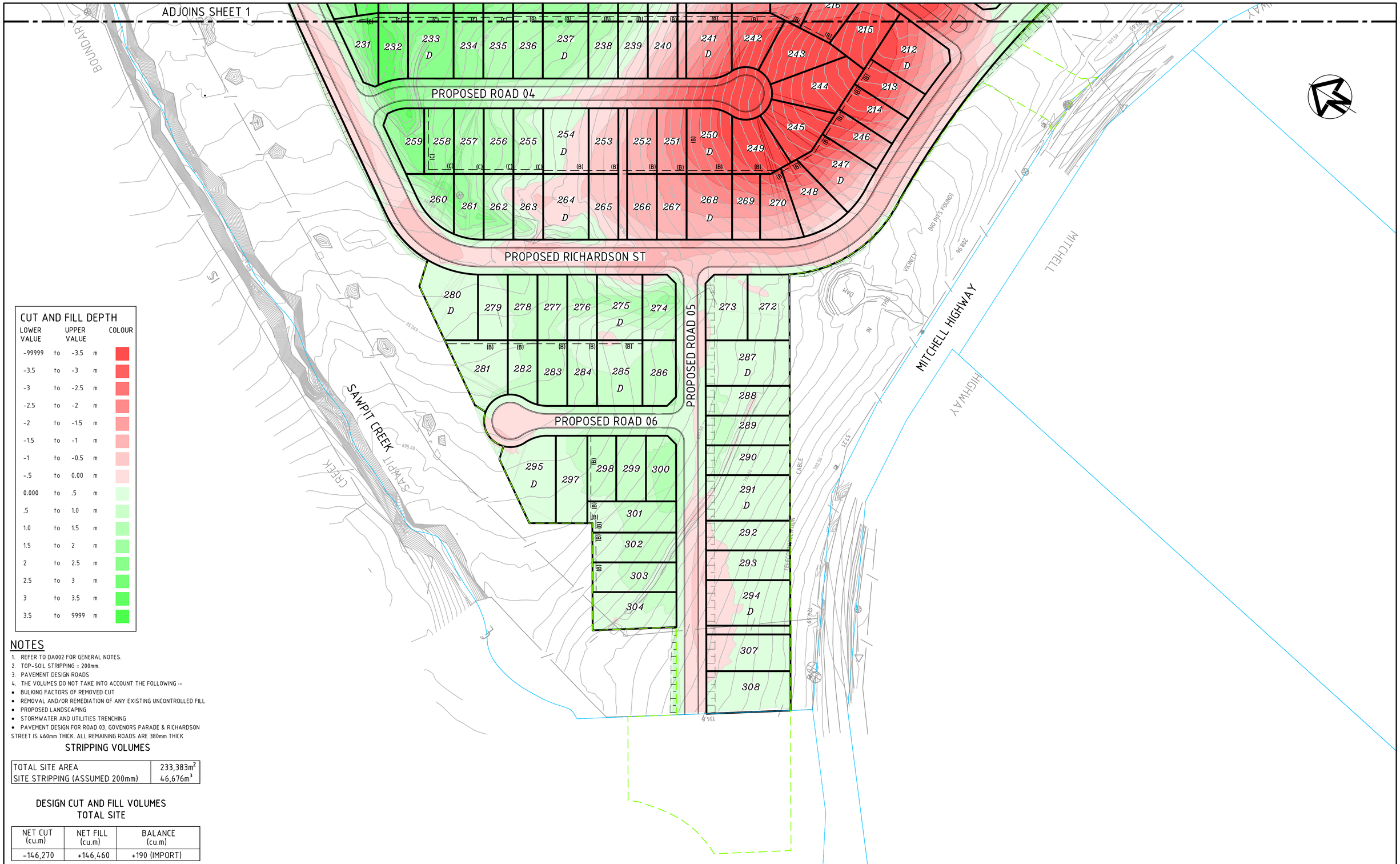
A1

Drawing No.	Project No.	Issue
17-465-DA020	17-465	G

Date Plotted: 16 Jun 2020 - 05:54PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA020.dwg



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	
-.5	to	0.00	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

1. REFER TO DA002 FOR GENERAL NOTES.
2. TOP-SOIL STRIPPING = 200mm.
3. PAVEMENT DESIGN ROADS
4. 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, GOVENORS PARADE & RICHARDSON STREET IS 460mm THICK. ALL REMAINING ROADS ARE 380mm THICK

STRIPPING VOLUMES

TOTAL SITE AREA	233,383m^2
SITE STRIPPING (ASSUMED 200mm)	46,676m^3

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

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales 1:500

Grid MGA

Height Datum AHD

Drawn QD

Designed GJ & QD

Checked GJ

Approved

Project

WINDRADYNE 1100

Title

BULK EARTHWORKS PLAN SHEET 2

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Status FOR APPROVAL
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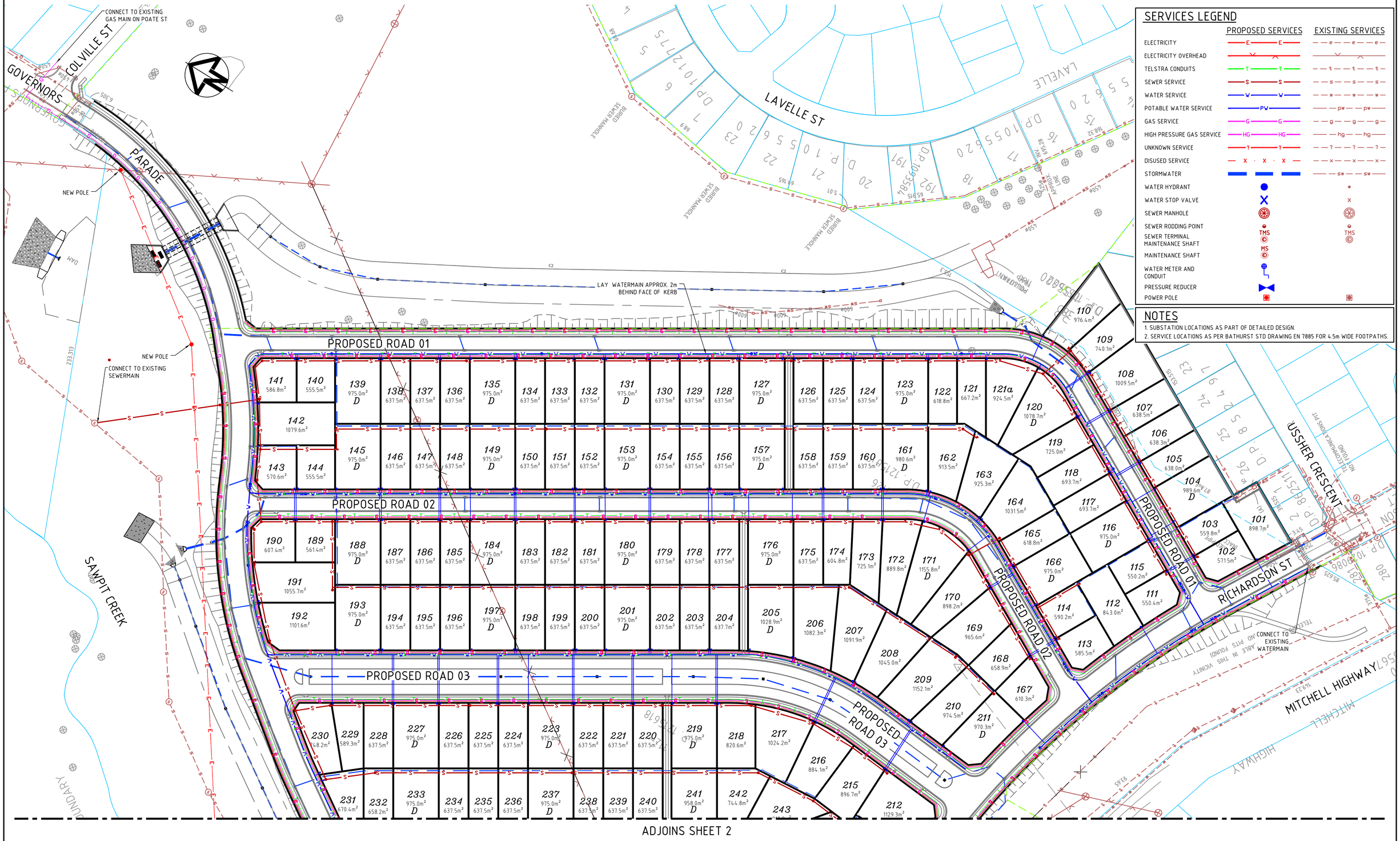
A1

Drawing No.	Project No.	Issue
17-465-DA021	17-465	G

Date Plotted: 16 Jun 2020 - 05:55PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA021.dwg



SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e e
ELECTRICITY OVERHEAD		
TELSTRA CONDUITS	T T	t t t
SEWER SERVICE	S S	s s s
WATER SERVICE	W W	w w w
POTABLE WATER SERVICE	PW	pw pw
GAS SERVICE	G G	g g g
HIGH PRESSURE GAS SERVICE	HG HG	hg hg
UNKNOWN SERVICE	? ?	? ? ?
DISUSED SERVICE	x x x	x x x
STORMWATER		sw sw
WATER HYDRANT		
WATER STOP VALVE		x
SEWER MANHOLE		
SEWER RODDING POINT		
SEWER TERMINAL MAINTENANCE SHAFT	TMS	TMS
MAINTENANCE SHAFT	MS	
WATER METER AND CONDUIT		
PRESSURE REDUCER		
POWER POLE		

NOTES

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

Issue	Description	Date
L	ISSUE FOR APPROVAL	16-06-20
K	ISSUE FOR APPROVAL	24-04-20
K	ISSUE FOR APPROVAL	03-05-19
J	ISSUE FOR APPROVAL	18-03-19
I	ISSUE FOR APPROVAL	07-03-19
H	ISSUE FOR APPROVAL	24-01-19
G	ISSUE FOR APPROVAL	21-11-18
F	ISSUE FOR APPROVAL	09-11-18
E	ISSUE FOR APPROVAL	02-11-18

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales		Drawn	QD
	1:1000	Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	

Project

WINDRADYNE
1100

Title

SEWERMAIN AND PORTABLE WATERMAIN PLAN
SHEET 1

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Status: FOR APPROVAL
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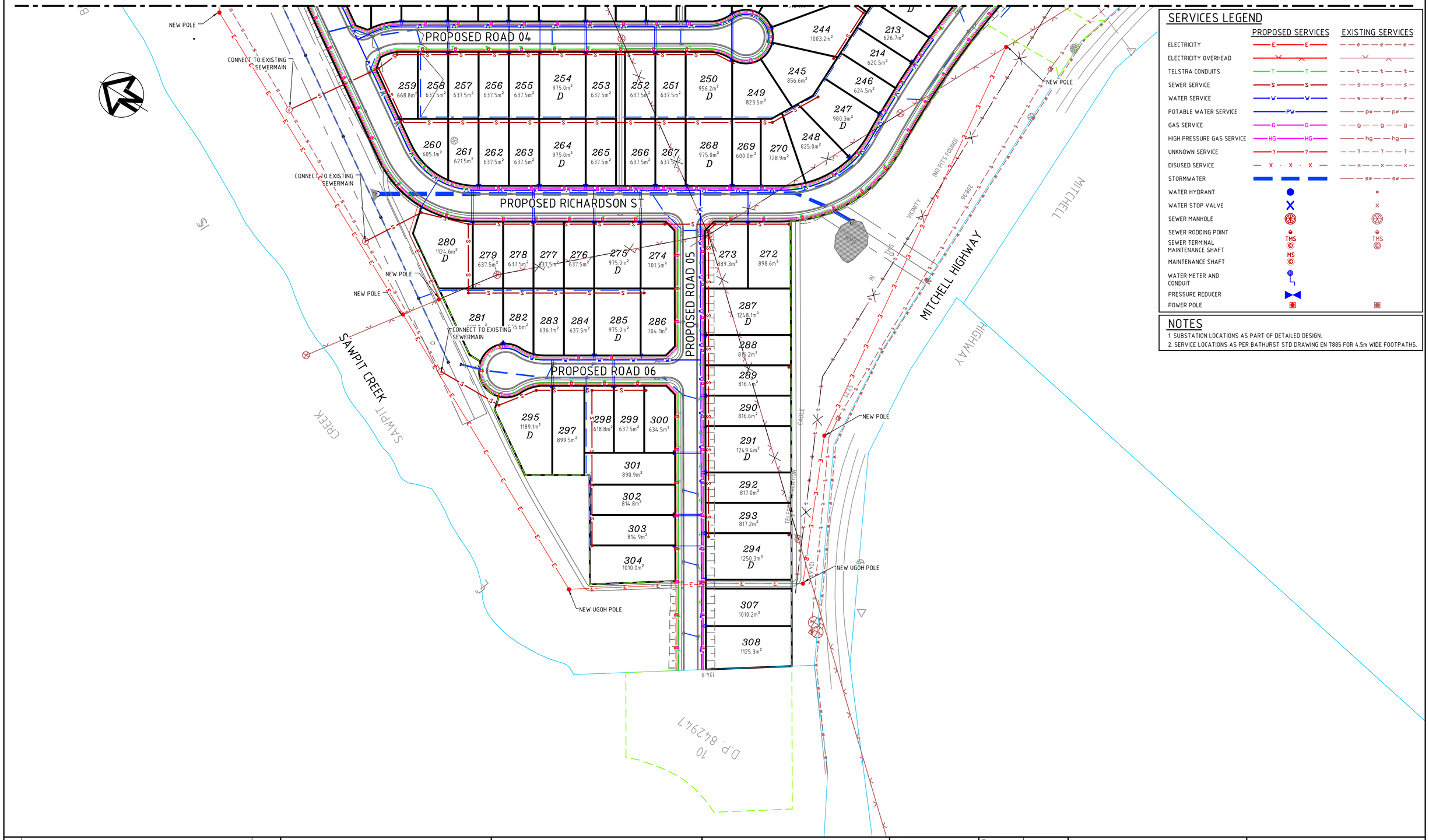
Drawing No.	Project No.	Issue
17-465-DA025	17-465	L

Date Plotted: 16 Jun 2020 - 05:55PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA025.dwg

ADJOINS SHEET 1



SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e e e
ELECTRICITY OVERHEAD		
TELSTRA CONDUITS	T T	t t t t
SEWER SERVICE	S S	s s s s
WATER SERVICE	W W	w w w w
POTABLE WATER SERVICE	PW	pw pw
GAS SERVICE	G G	g g g g
HIGH PRESSURE GAS SERVICE	HG HG	hg hg
UNKNOWN SERVICE	? ?	? ? ? ?
DISUSED SERVICE	X X	x x x x
STORMWATER		sw sw
WATER HYDRANT		
WATER STOP VALVE		x
SEWER MANHOLE		
SEWER RODDING POINT		
SEWER TERMINAL MAINTENANCE SHAFT	TMS	TMS
MAINTENANCE SHAFT	MS	
WATER METER AND CONDUIT		
PRESSURE REDUCER		
POWER POLE		

NOTES

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

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	ISSUED FOR APPROVAL	24-01-19

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales	1:1000
Grid	MGA
Height Datum	AHD
Drawn	QD
Designed	GJ & QD
Checked	GJ
Approved	

Project

WINDRADYNE
1100

Title

SEWERMAIN AND PORTABLE WATERMAIN PLAN
SHEET 2

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Status: FOR APPROVAL
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A1

Drawing No.	Project No.	Issue
17-465-DA026	17-465	F

Date Plotted: 16 Jun 2020 - 05:55PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA026.dwg

LEGEND

- BATHURST LEP BOUNDARY
- DRAINAGE EASEMENT
- (A) 1,5m WIDE DRAINAGE EASEMENT
- (B) 2.0m WIDE DRAINAGE EASEMENT
- (C) 2.5m WIDE DRAINAGE EASEMENT

COLVILLE ST

GOVERNORS PARADE

LAVELLE ST

USSHER CRESCENT

PROPOSED ROAD 01

PROPOSED ROAD 02

PROPOSED ROAD 03

RICHARDSON ST

MITCHELL HIGHWAY

SAWPIT CREEK

EXISTING BOUNDARY TO BE REMOVED

ADJOINS SHEET 2

L	ISSUE FOR APPROVAL	16-06-20
K	ISSUE FOR APPROVAL	24-04-20
L	ISSUE FOR APPROVAL	24-02-20
K	ISSUE FOR APPROVAL	08-01-20
J	ISSUE FOR APPROVAL	18-03-19
I	ISSUE FOR APPROVAL	07-03-19
H	ISSUE FOR APPROVAL	28-02-19
G	ISSUE FOR APPROVAL	20-02-19
F	ISSUE FOR APPROVAL	24-01-19
Issue	Description	Date

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales	1:1000	Drawn	QD
		Designed	GJ & QD
Grid	MGA	Checked	GJ
Height Datum	AHD	Approved	

Project

WINDRADYNE
1100

Title

LOT LAYOUT
PLAN
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Status		
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		A1
Drawing No.	Project No.	Issue
17-465-DA030	17-465	L

100mm on Original

Date Plotted: 16 Jun 2020 - 05:56PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA030.dwg

ADJOINS SHEET 1

PROPOSED ROAD 04

PROPOSED RICHARDSON ST

PROPOSED ROAD 05

PROPOSED ROAD 06

SAWPIT CREEK

MITCHELL HIGHWAY

LEGEND

- BATHURST LEP BOUNDARY
- DRAINAGE EASEMENT
- (A) 1,5m WIDE DRAINAGE EASEMENT
- (B) 2.0m WIDE DRAINAGE EASEMENT
- (C) 2.5m WIDE DRAINAGE EASEMENT

Issue	Description	Date
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

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Key Plan

Client

BATHURST REGIONAL COUNCIL

Scales 1:1000

Grid MGA

Height Datum AHD

Drawn QD

Designed GJ & QD

Checked GJ

Approved

Project

WINDRADYNE 1100

Title

LOT LAYOUT PLAN SHEET 2

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Status FOR APPROVAL
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A1

Drawing No.	Project No.	Issue
17-465-DA031	17-465	J

100mm on Original

Date Plotted: 16 Jun 2020 - 05:56PM File Name: F:\17-465 Windradyne Stage 1100\Drgs\Civil\Final\DA\17-465-DA031.dwg