PROPOSED CARPARK & ACCESS ROAD

2 SCHOOLHOUSE ST, BERSERKER FOR KINGSLEY COLLEGE

	GENERAL					
DRAWING NO	DESCRIPTION	REVISION				
0001	TITLE SHEET	E				
0002	CIVIL NOTES - SHEET 1 OF 2	С				
0003	CIVIL NOTES - SHEET 2 OF 2	С				
0004	TYPICAL SECTIONS AND DETAILS	С				
1001	EROSION & SEDIMENT CONTROL LAYOUT PLAN	С				
2001	OVERALL LAYOUT PLAN	D				
2002	DETAIL PLAN - SHEET 1 OF 4	D				
2003	DETAIL PLAN - SHEET 2 OF 4	С				
2004	DETAIL PLAN - SHEET 3 OF 4	С				
2005	DETAIL PLAN - SHEET 4 OF 4	С				
2006	CONCRETE JOINTING LAYOUT PLAN	С				
2007	ROADWORKS - DETAIL PLAN	Α				
2010	STAGING PLAN	D				
2101	LONGITUDINAL SECTION - CONTROL MC02	С				
2102	LONGITUDINAL SECTION - CONTROL MC03	С				
2103	LONGITUDINAL SECTION - CONTROL MC03 & MK01	С				
2201	CROSS SECTIONS - MC02 & MK01	С				
2202	CROSS SECTIONS - CONTROL MC03	С				
3001	STORMWATER BIO RETENTION SWALE	С				
3002	STORMWATER BIO RETENTION POND	С				
4001	VEHICLE TURN PATHS	Α				

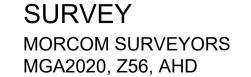
GENERAL NOTES

- ALL DRAWINGS ARE REDUCED TO A3 SHEET SIZE FOR PLOTTING PURPOSES FROM A1 SHEET SIZE ELECTRONIC CAD DRAWING FILES.
- 2. REFERENCE TO THE THE FOLLOWING AUSTRALIAN STANDARDS. (AS 1100.101 - GENERAL PRINCIPALS AND AS 1100.401 - ENGINEERING AND SURVEYING)
- 3. DO NOT SCALE FROM DRAWINGS. IF IN DOUBT OBTAIN DIMENSIONS FROM THE ELECTRONIC DRAWING FILE. ALL DRAWINGS SHALL BE CONSTRUCTED AS DIMENSIONED. UNDER NO CIRCUMSTANCES IS A DRAWING TO BE SCALED FROM FOR CONSTRUCTION PURPOSES. A1 SHEET SIZE ELECTRONIC CAD DRAWING FILES ARE AVAILABLE UPON **REQUEST**
- 4. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ASSOCIATED RELEVANT DRAWINGS IN THE PLAN SET AND SPECIFICATIONS.
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
- THE LOCATION OF SERVICES ARE INDICATIVE ONLY.
- HORIZONTAL DATUM IS GDA2020 AND ALL LEVELS ARE AHD.
- CONTOURS PROVIDED ARE FROM DTM WITH VERTICAL ACCURACY 100mm NOMINAL



PROJECT STAMP

R.P. DESCRIPTION LOT 179 ON CP890747 PARISH OF ROCKHAMPTON





FOR CONSTRUCTION

20.10.22 LAS 2.11.22 LAS **FCON**

ISSUE REV DATE DES DESCRIPTION A 29.09.22 LAS FOR CONSTRUCTION IF APPROVED VARIOUS AMENDMENTS VARIOUS AMENDMENTS 28.03.23 LAS CHANGED STAGE 1A & 1B BOUNDARY E 2.05.23 LAS UPDATED SHEET LIST

PROJECT MANAGEMENT 23569 **RPEQ CERTIFICATION** LAS RWB RWB APPROVED DESIGNER CHECKED INTERNAL PROJECT NO. R0102223

SURVEY

GDA 2020

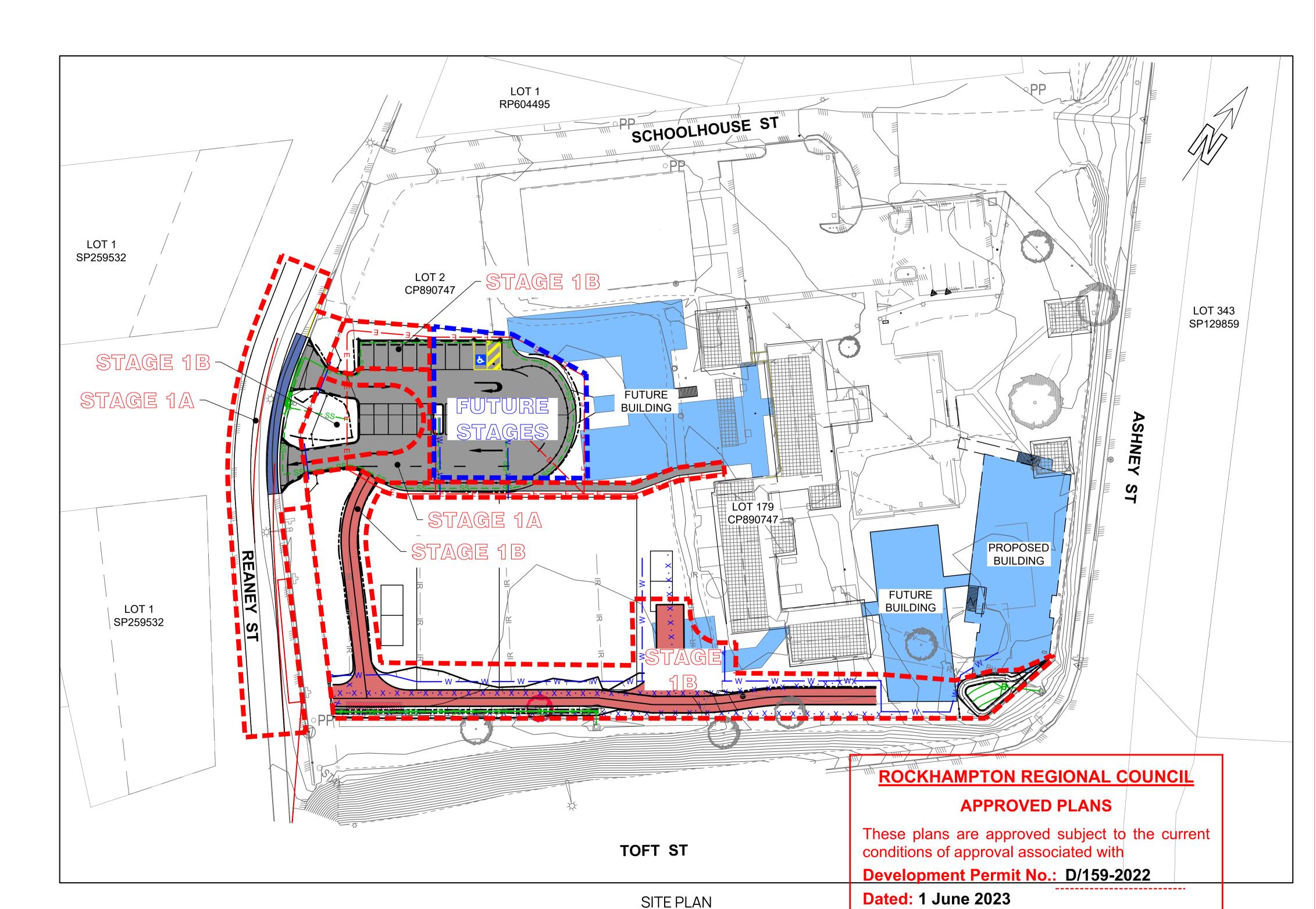
DATUM

MCE McMurtrie Consulting Engineers ROCKHAMPTON I BUNDABERG

PROJECT IDENTIFIER CLIENT KINGSLEY COLLEGE PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD TITLE TITLE SHEET

R0102223-0001

DRAWING NUMBER PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM



SCALE 1:400(A1) 1:800(A3)

PROJECT STAMP

CIVIL INFRASTRUCTURE NOTES

GENERAL NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ROCKHAMPTON REGIONAL COUNCIL AND (CMDG) SPECIFICATIONS AND DRAWINGS, UNLESS STATED OTHERWISE
- 2. ALTHOUGH THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, MANHOLES, POLES, ETC MAY BE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORK. ANY COST ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
- LEVELS REFER TO LIP OF KERB AND CHANNEL. ROAD DIMENSIONS AND RADII MEASURED TO SETOUT LINE AT THE LIP.
- NOTWITHSTANDING THE LIMITS OF CUT AND FILL SHOWN ON THE DRAWINGS. THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT
- 5. ALL NEW WORK SHALL BE JOINED NEATLY TO EXISTING AND THE LEVELS FOR CONNECTION TO EXISTING WORKS MAY BE VARIED WHERE NECESSARY ON SITE BY THE SUPERINTENDENT TO ACHIEVE A SATISFACTORY SMOOTH FINISH TO THE EXISTING WORKS. JOINS TO EXISTING AC SURFACING SHALL BE SAW CUT TO THE SATISFACTION OF THE SUPERINTENDENT.
- THE PAVEMENT THICKNESS SHOWN ON THE DRAWINGS MAY BE VARIED BY DIRECTION, IN WRITING, OF THE SUPERINTENDENT AFTER THE EXAMINATION AND/OR TESTING OF THE ROAD SUBGRADE. THE CONTRACTOR SHALL IN ALL CASES CONFIRM THE PAVEMENT THICKNESS BEFORE PROCEEDING WITH THE FINAL PREPARATION OF THE ROAD SUBGRADE.
- A TELSTRA REPRESENTATIVE MUST BE PRESENT WHEN EXCAVATING NEAR TO TELSTRA CABLES.
- LAYOUT AND LEVELS PLAN MUST BE READ IN CONJUNCTION WITH LONGITUDINAL SECTIONS, CROSS SECTIONS AND DETAILS.
- ROAD CONTOURS ARE AT 0.1m INTERVALS UNLESS STATED OTHERWISE.
- 10. CLEARING AND GRUBBING SHALL BE AS DEFINED IN THE SPECIFICATIONS. ALL DEBRIS SHALL BE REMOVED FROM THE SITE (WHICH INCLUDES THE ROAD RESERVE AND ALLOTMENTS). BURNING OF WASTE MATERIAL AND DEBRIS IS PROHIBITED. WITHOUT APPROVAL FROM THE FIRE WARDEN AND ROCKHAMPTON REGIONAL COUNCIL
- 11. STOCKPILING OF REUSABLE MATERIAL SHALL BE AT A LOCATION APPROVED BY THE SUPERINTENDENT ON SITE. AND SHALL BE WATERED DOWN TO ENSURE THAT DUST IS KEPT TO A MINIMUM.
- 12. TOPSOIL IS TO BE STRIPPED TO A DEPTH OF NOT LESS THAN 75mm AND STOCKPILED FOR LATER RESPREADING ON FOOTPATHS AND BATTERS AS DIRECTED BY THE SUPERINTENDENT. TOPSOIL TO BE RESPREAD TO MINIMUM DEPTH OF 50mm OR AS DIRECTED BY THE SUPERINTENDENT.
- 13. TURF IS TO BE APPLIED TO ALL FOOTPATHS FOR A MINIMUM OF 800mm FROM REAR OF KERBS IN ACCORDANCE WITH THE TURFING DETAIL.
- 14. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 15. ALL SIGNS TO BE MIN CLASS 1 RETRO-REFLECTIVE MATERIAL

EROSION & SEDIMENT CONTROL

- THE CONTRACTOR SHALL ENSURE THAT EFFECTIVE EROSION AND SEDIMENTATION CONTROL IS PROVIDED AT ALL TIMES.
- 2. RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS. DEPOT AND STOCKPILE SITES. SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES REQUIRED FOR THIS PURPOSE.
- 3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES. WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED EROSION AND SEDIMENTATION CONTROL STRATEGY
- 4. RUNOFF FROM AREAS EXPOSED DURING THE WORK SHALL BE CONTROLLED BY CONSTRUCTION OF TEMPORARY CONTOUR DRAINS AND/OR TEMPORARY DIVERSION DRAINS. GENERALLY, A TEMPORARY CONTOUR DRAIN OR TEMPORARY DIVERSION DRAIN TAKES THE FORM OF A CHANNEL CONSTRUCTED ACROSS A SLOPE WITH A RIDGE ON ITS LOWER SIDE. THEY MAY REQUIRE PROGRESSIVE IMPLEMENTATION AND FREQUENT ALTERATION AS THE WORK PROGRESSES.
- CONTOUR DRAINS, WHICH FOLLOW POINTS ON THE NATURAL SURFACE OF APPROXIMATELY THE SAME ELEVATION, SHALL BE PROVIDED IMMEDIATELY AFTER A CONSTRUCTION SITE IS CLEARED TO INTERCEPT AND DIVERT RUNOFF FROM THE SITE TO NEARBY STABLE AREAS AT NON-EROSIVE VELOCITIES. CONTOUR DRAINS SHALL BE FORMED WITH A GRADE OF NEITHER LESS THAN 1 PER CENT NOR MORE THAN 1.5 PER CENT AND SHALL BE SPACED AT INTERVALS OF NEITHER LESS THAN 20m NOR MORE THAN 50m, DEPENDING ON THE ERODIBILITY OF THE EXPOSED SOIL
- DIVERSION DRAINS SHALL BE PROVIDED ACROSS HAUL ROADS AND ACCESS TRACKS WHEN SUCH ROADS AND ACCESS TRACKS ARE IDENTIFIED AS CONSTITUTING AN EROSION HAZARD DUE TO THEIR STEEPNESS, SOIL ERODIBILITY OR POTENTIAL FOR CONCENTRATING RUNOFF FLOW. DIVERSION DRAINS SHALL BE FORMED TO INTERCEPT AND DIVERT RUNOFF FROM THE ROAD OR TRACK TO STABLE OUTLETS. SPACING OF DIVERSION DRAINS SHALL NOT BE GREATER THAN THAT REQUIRED TO MAINTAIN RUNOFF AT NON-EROSIVE VELOCITIES.
- TEMPORARY SEDIMENT-TRAPPING DEVICES SHALL BE PROVIDED DURING CONSTRUCTION TO REMOVE SEDIMENT FROM SEDIMENT-LADEN RUNOFF FLOWING FROM AREAS OF 0.5 HECTARES OR MORE BEFORE THE RUNOFF ENTERS NATURAL WATERCOURSES OR ADJACENT LAND
- THE CONTRACTOR SHALL TAKE ALL NECESSARY ACTION TO PROTECT BATTERS FROM EROSION.
- SCOUR OF NEWLY-FORMED FILL BATTERS DURING AND AFTER EMBANKMENT CONSTRUCTION SHALL BE MINIMISED BY DIVERTING RUNOFF FROM THE FORMATION AWAY FROM THE BATTER UNTIL VEGETATION IS ESTABLISHED.
- 10. THE CONTRACTOR SHALL INSPECT ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL WORKS AFTER EACH RAIN PERIOD AND DURING PERIODS OF PROLONGED RAINFALL. ANY DEFECTS REVEALED BY SUCH INSPECTIONS SHALL BE RECTIFIED IMMEDIATELY AND THESE WORKS SHALL BE CLEANED, REPAIRED AND AUGMENTED AS REQUIRED, TO ENSURE EFFECTIVE EROSION AND SEDIMENTATION CONTROL THEREAFTER
- 11. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS FOR CLEANING OUT SEDIMENTATION CONTROL WORKS.

DRAWING SCALE

12. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL WORKS SHALL BE REMOVED BY THE CONTRACTOR WHEN REVEGETATION IS ESTABLISHED ON FORMERLY EXPOSED AREAS BEFORE THE END OF THE CONTRACT. ALL MATERIALS USED FOR THE TEMPORARY EROSION AND SEDIMENTATION CONTROL WORKS SHALL BE REMOVED FROM THE SITE OR OTHERWISE DISPOSED BY THE CONTRACTOR.

BULK EARTHWORKS

- IN AREAS LISTED BELOW, ALL LAYERS SHALL BE UNIFORMLY COMPACTED TO NOT LESS THAN THE RELATIVE COMPACTION SPECIFIED BEFORE THE NEXT LAYER IS COMMENCED. EACH LAYER OF MATERIAL SHALL BE TRIMMED PRIOR TO AND DURING COMPACTION TO AVOID BRIDGING OVER LOW AREAS. A SMOOTH SURFACE SHALL BE PRESENTED AT THE TOP OF EACH LAYER.
- THE FOLLOWING AREAS SHALL BE COMPACTED TO PROVIDE A RELATIVE COMPACTION. DETERMINED BY AS 1289.5.7.1 FOR STANDARD COMPACTION EFFORT, OF NOT LESS THAN 95 PER CENT.
- EACH LAYER OF MATERIAL REPLACING UNSUITABLE MATERIAL
- EACH LAYER OF MATERIAL PLACED IN EMBANKMENTS. UP TO 0.3 METRES FROM THE TOP OF THE SUBGRADE.
- THE WHOLE AREA ON THE FLOORS OF CUTTINGS.
- FILL PLACED ADJACENT TO STRUCTURES UP TO 1.0 METRE FROM THE TOP OF PAVEMENT
- MATERIAL IN UNSEALED VERGES AND WITHIN MEDIANS UP TO THE LEVEL AT WHICH TOPSOIL IS PLACED
- SPOIL (EXCLUDING UNSUITABLE MATERIAL)
- ALL OTHER AREAS EXCEPT THOSE WHERE 97 PER CENT RELATIVE COMPACTION IS SPECIFIED
- UNSUITABLE MATERIAL SHALL BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT AND UNSUITABLE EARTHWORKS COMPACTED BY TRACK ROLLING, MATERIAL
- THE FOLLOWING AREAS SHALL BE COMPACTED TO PROVIDE A RELATIVE COMPACTION OF NOT LESS THAN 98 PER CENT AS DETERMINED BY AS 1289.5.7.1 FOR STANDARD COMPACTION EFFORT:
- FOUNDATIONS FOR SHALLOW EMBANKMENTS.
- FOUNDATIONS OTHER THAN SHALLOW EMBANKMENTS.
- EACH LAYER OF THE EMBANKMENT WITHIN 0.3 METRES FROM THE TOP OF THE SUBGRADE.
- EACH LAYER OF THE SELECTED MATERIAL ZONE
- ANY AREAS OF MATERIAL OF SPECIFIED QUALITY WHICH MAY BE SHOWN ON THE DRAWINGS OR SPECIFIED ELSEWHERE BEHIND KERBS AND/OR GUTTERS OR ADJACENT TO RIGID PAVEMENTS.
- THE FILL MATERIAL PLACED ADJACENT TO STRUCTURES WITHIN 1.0 METRE FROM THE TOP OF THE PAVEMENT. UNLESS OTHERWISE STATED.
- AT THE TIME OF COMPACTION THE MOISTURE CONTENT OF THE MATERIAL SHALL BE ADJUSTED SO AS TO PERMIT THE SPECIFIED COMPACTION TO BE ATTAINED AT A MOISTURE CONTENT OF NOT LESS THAN 80% OR MORE THAN 100% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY AS 1289.5.1.1 OR AS 1289.5.7.1. MATERIAL WHICH BECOMES WETTED UP AFTER PLACEMENT SHALL NOT BE COMPACTED UNTIL IT HAS DRIED OUT SO THAT THE MOISTURE CONTENT IS WITHIN THIS RANGE. THE DRYING PROCESS MAY BE ASSISTED BY AERATION. IF THERE IS INSUFFICIENT MOISTURE IN THE MATERIAL FOR IT TO BE COMPACTED AS SPECIFIED, WATER SHALL BE ADDED. THE ADDED WATER SHALL BE APPLIED UNIFORMLY AND THOROUGHLY MIXED WITH THE MATERIAL UNTIL A HOMOGENEOUS MIXTURE IS OBTAINED. MOISTURE CONTENT.
- COMPACTION SHALL BE UNDERTAKEN TO OBTAIN THE SPECIFIED RELATIVE COMPACTION FOR THE FULL DEPTH OF EACH LAYER IN EMBANKMENTS AND FOR THE FULL WIDTH OF THE FORMATION OVER THE ENTIRE LENGTH OF THE WORK. COMPACTION SHALL BE COMPLETED PROMPTLY TO MINIMISE THE POSSIBILITY OF RAIN DAMAGE.
- ANY MATERIAL PLACED BY THE CONTRACTOR THAT HAS ATTAINED THE SPECIFIED RELATIVE COMPACTION BUT SUBSEQUENTLY BECOMES WETTED UP SO THAT THE MOISTURE CONTENT IS GREATER THAN THE APPARENT OPTIMUM, DETERMINED BY AS 1289.5.7.1, SHALL BE DRIED OUT AND UNIFORMLY RE-COMPACTED TO THE REQUIRED RELATIVE COMPACTION IN ACCORDANCE WITH THIS CLAUSE BEFORE THE NEXT LAYER OF MATERIAL IS PLACED. ALTERNATIVELY, THE CONTRACTOR MAY REMOVE THE LAYER OF WETTED MATERIAL TO A STOCKPILE SITE FOR DRYING AND LATER RE-USE.
- FOLLOWING COMPLETION OF COMPACTION AND TRIMMING. THE ENTIRE SUBGRADE AREA SHALL BE INSPECTED BY PROOF ROLLING WITH A FULLY LOADED SINGLE REAR AXLE TRUCK (OR ACCEPTABLE EQUIVALENT) ACCEPTABLE PROOF ROLLING SHALL BE TAKEN TO BE NO VISIBLE SIGNS OF DEFORMATION OR INSTABILITY IN THE SUBGRADE.
- THE SPECIFIED COMPACTION AND MOISTURE TESTS SHALL BE TAKEN AT THE RANDOM TESTLOCATIONS ESTABLISHED IN EACH LOT IN ACCORDANCE WITH THE SPECIFIED MINIMUM TESTING FREQUENCY. PRIOR TO TESTING THE CONTRACTOR SHALL WORK THE LOT TO ENSURE UNIFORM MOISTURE CONTENT AND COMPACTION OF ALL MATERIAL WITHIN THE LOT.
- THE TEST/S THEN TAKEN SHALL BE CONSIDERED TO REPRESENT THE TOTAL VOLUME OF MATERIAL PLACED WITHIN THE LOT.
- 11. LIMITS AND TOLERANCES: THE LIMITS AND TOLERANCES APPLICABLE TO THE VARIOUS CLAUSES IN THE SPECIFICATION ARE SUMMARIZED SHOWN BELOW:
- BATTER SLOPES
- A) EXCAVATION ± 300mm
- B) EMBANKMENT ± 300mm
- FLOORS
 - A) FLOOR OF CUTTING: PARALLEL TO THE DESIGNED GRADE LINE AND ± 50mmOF THE DESIGNED FLOOR LEVEL
- TOPS OF EMBANKMENTS
- A) TRIMMING TOPS OF
- EMBANKMENTS: PARALLEL TO THE DESIGNED GRADE LINE, +10mmOR -40mmOF THE LEVELS SPECIFIED

DRAINAGE

- ALL STORMWATER PIPE BEDDING SHALL BE IN ACCORDANCE WITH THIS SPECIFICATION, AS3725 AND AS3725 SUPPLEMENT 1 FOR THE PIPE SUPPORT TYPES AS SHOWN ON THE DRAWINGS. WHERE THE PIPE SUPPORT TYPE IS NOT SHOWN ON THE DRAWINGS, THE SUPPORT TYPE SHALL BE HS3 WITHIN ROAD RESERVES AND H2 ELSEWHERE.
- 2. AVERAGE RECURRENCE INTERVAL (ARI) FOR DESIGN;
 - OF PIPED SYSTEMS = 5 YEARS OF TABLE DRAINS
 - = 5 YEARS
 - OF SEDIMENTATION BASINS = 5 YEARS
- FOR MAJOR FLOW DRAINAGE = 100 YEARS. 3. FOR SUBSOIL DRAINAGE, THE CONTRACTOR SHALL REFER TO THE ROCKHAMPTON REGIONAL COUNCIL STANDARD SPECIFICATIONS AND DRAWINGS UNLESS STATED OTHERWISE.

PAVEMENT

- CONTROL TESTING OF EARTHWORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH A.S.3798.
- FILL SHALL BE PLACED AND COMPACTED TO THE FOLLOWING STANDARDS:
- (A) COHESIVE MATERIALS: ALLOTMENT FILL SHALL ACHIEVE A MINIMUM DRY DENSITY RATIO (M.D.D.R) OF 95% STANDARD.
- ROAD EMBANKMENTS SHALL ACHIEVE THE FOLLOWING MINIMUM STANDARDS:
- (A) GREATER THAN OR EQUAL TO 0.3mBELOW PAVEMENT SUBGRADE: 95% M.D.D.R STANDARD.
- LESS THAN 0.3m BELOW PAVEMENT SUBGRADE: 98% M.D.D.R STANDARD.
- NON COHESIVE MATERIAL: FILL SHALL ACHIEVE A MINIMUM DENSITY INDEX RATIO OF 80%
- FIELD DENSITY TESTS SHALL BE UNDERTAKEN AT THE FOLLOWING MINIMUM FREQUENCIES:
- (A) ALLOTMENT FILL: 1 TEST/500CU.M OR 1 TEST/ALLOTMENT (WHICHEVER IS GREATER) (B) SUBGRADE FILL AND ROAD PAVEMENT: 1 TEST/200CU.M OR 1 TEST/200mm THICKNESS/1000SQ.METRES
- (WHICHEVER IS GREATER)
- ROAD PAVEMENTS SHALL BE PLACED AND COMPACTED TO ACHIEVE A MINIMUM DRY DENSITY RATIO (M.D.D.R) OF 100% STANDARD.
- EARTHWORKS GREATER THAN 0.4m DEPTH TO BE CONTROL FILL LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS 3798
- THE LIMITS AND TOLERANCES APPLICABLE TO THE VARIOUS CLAUSES IN THIS SPECIFICATION ARE SUMMARISED AS BELOW: (A). STOCKPILE SITES.
 - RELATIVE COMPACTION >95%
 - STOCKPILE HEIGHT < 3m STOCKPILE BATTER <1.5:1 AND >3:1
- (B). SPREADING PAVEMENT MATERIALS
- COMPACTED LAYER THICKNESS ≥100mm. ≤200mm
- (C). COMPACTION ACCEPTANCE
- MINIMUM VALUE OF ALL CALCULATED RELATIVE COMPACTION RESULTS ≥100 PER CENT (STANDARD COMPACTION EFFORT) (D). WIDTH OF PAVEMENT
 - DESIGN CENTRE-LINE TO EDGE OF CONSTRUCTED PAVEMENT -50mm TO +300mm OF DIMENSIONS ON DRAWINGS.
 - AVERAGE WIDTH THE AVERAGE WIDTH DETERMINED FROM 3 RANDOM SITES OVER ANY 200m ROAD LENGTH. OR PART THEREOF, SHALL BE NOT LESS THAN THE SPECIFIED WIDTH.

(E). SURFACE LEVEL

- SUBBASE LEVELS <±10mm FROM DESIGN LEVEL
- BASE LEVELS <±10mm FROM DESIGN LEVEL
- BASE LEVELS ADJACENT TO KERB AND GUTTER <±5mm FROM THE LIP LEVELS OF ADJACENT
- GUTTER MINUS DESIGN THICKNESS OF WEARING SURFACE. SHAPE DEVIATION FROM A 3m LONG STRAIGHTEDGE ON BASE SURFACE IMMEDIATELY PRIOR TO SEALING SHALL BE LESS THAN 12mm

WATER

- MINIMUM COVER TO MAIN IS 600mm, 900mm UNDER ROADS.
- CONNECTIONS TO EXISTING MAINS TO BE PERFORMED BY COUNCIL
- FOR PIPES LAID ON CURVES REFER TO MANUFACTURES SPECIFICATIONS FOR JOINT DEFLECTION OR PIPE BENDING

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/159-2022

Dated: 1 June 2023

PROJECT MANAGEMENT 23569 RPEQ CERTIFICATION LAS RWB RWB DESIGNER CHECKED APPROVED



PROJECT IDENTIFIER CLIENT KINGSLEY COLLEGE CIVIL NOTES - SHEET 1 OF 2

DRAWING NUMBER

R0102223-0002

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FOR CONSTRUCTION

NOT TO SCALE

C 2.11.22 LAS VARIOUS AMENDMENTS

B |20.10.22| LAS

ISSUE REV DATE DES DESCRIPTION

VARIOUS AMENDMENTS

A 29.09.22 LAS FOR CONSTRUCTION IF APPROVED

INTERNAL PROJECT NO. R0102223 DATUM AHD SURVEY GDA 2020

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REVISION

ngineerin

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imagine

CIVIL INFRASTRUCTURE NOTES

CONCRETE

IN ACCORDANCE WITH AS 3600

- ALL STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS 3610 AND AS 1379.
- COVER TO REINFORCEMENT AND CONCRETE GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

		COVER		GRADE	
ELEMENT	EXPOSURE	SURFACES CAST AGAINST GROUND	FORMED OR FINISHED	(MIN.)	
SLABS	EXTERIOR	50	30	N32	

- COVER IS THE CLEAR DISTANCE BETWEEN ANY REINFORCING (INCLUDING FITMENTS) AND THE FACE OF THE STRUCTURAL FLEMENT
- FOR ALL EXTERNAL SURFACES, PROVIDE FULLY PLASTIC BAR CHAIRS. TIE WIRE SHALL NOT BE NAILED TO THE
- PROVIDE AN APPROVED 0.20 mm DAMP PROOF MEMBRANE UNDER ALL CONCRETE SURFACES ON GROUND.
- THE REINFORCEMENT COVERS SHALL BE MAINTAINED USING APPROVED BAR CHAIRS. IN SLABS THE BAR CHAIRS SHALL BE AT 800 mm x 800 mm MAXIMUM CENTRES.
- ALL CONCRETE SUPPLIED SHALL BE NORMAL CLASS CONCRETE IN ACCORDANCE WITH AS 3600 AND HAVE A SLUMP OF 80 mm AND A MAXIMUM NOMINAL AGGREGATE SIZE OF 20 mm UNLESS NOTED OTHERWISE. THE ENGINEER SHALL APPROVE VARIATIONS FROM THESE.
- USE READY MIX CONCRETE MIXED BY THE BATCH PRODUCTION PROCESS DELIVERED IN AGITATING TRUCKS. OBTAIN APPROVAL BEFORE ADDING WATER AT THE SITE. FOR EACH BATCH OF CONCRETE, SUPPLY A DOCKET LISTING THE INFORMATION REQUIRED BY AS 1379 CLAUSE 1.7.3 AND THE FOLLOWING:
 - THE ELEMENT FOR WHICH THE CONCRETE WAS ORDERED;
 - THE TOTAL AMOUNT OF WATER ADDED AT THE PLANT AND THE MAXIMUM AMOUNT PERMITTED TO BE ADDED AT SITE:
 - THE AMOUNT OF WATER, IF ANY, ADDED AT THE SITE.
- THE MANUFACTURER IS TO CARRY OUT PRODUCTION ASSESSMENT OF CONCRETE FOR COMPLIANCE WITH THE REQUIREMENTS OF AS 3600 SECTION 17.1, AND AS 1379. FORWARD PRODUCTION ASSESSMENT REPORTS TO THE SUPERINTENDENT AS PER AS 1379 APPENDIX B6
- USE CONCRETE PLACING METHODS TO MINIMISE PLASTIC SETTLEMENT AND SHRINKAGE CRACKING. LIMIT VERTICAL FREE FALL OF CONCRETE TO LESS THAN 1500 mm. PROPERLY COMPACT CONCRETE USING MECHANICAL VIBRATION TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.
- KEEP ON SITE A LOG BOOK RECORDING EACH CONCRETE PLACEMENT INCLUDING DATE, BATCH DOCKET NUMBER, PORTION OF THE WORK, AND VOLUME PLACED
- PROVIDE PROPOSED LOCATION AND DETAILS OF CONSTRUCTION JOINTS FOR THE SUPERINTENDENT'S APPROVAL PRIOR TO CONSTRUCTION. CONSTRUCTION JOINTS IN SLABS SHALL BE VERTICAL AND IN WALLS SHALL BE HORIZONTAL. ENSURE CONSTRUCTION JOINT SURFACES ARE CLEAN AND FREE OF LAITANCE, LOOSE MATERIAL AND FOREIGN MATTER, AND DELIBERATELY ROUGHENED IN ACCORDANCE WITH TABLE 8.4.4 OF AS 3600. PRIOR TO PLACING ADJACENT FRESH CONCRETE. PRIME EXISTING CONCRETE SURFACE WITH BASF "CONCRESIVE 2525" OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- ALL TRAFFICABLE SLABS SHALL BE FINISHED WITH A NON-SLIP SURFACE. ALL OTHER EXPOSED SURFACES SHALL BE FINISHED TO A CLASS 4 SURFACE FINISH IN ACCORDANCE WITH AS 3610
- ALL FORMED EXPOSED EDGES AND RE-ENTRANT CORNERS SHALL BE CHAMFERED OF FILLETED 20 mm.
- C11. DO NOT MAKE HOLES, CHASES NOR EMBED PIPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT THE APPROVAL OF THE SUPERINTENDENT
- COMMENCE CURING OF CONCRETE IN ACCORDANCE WITH AS 3600 AS SOON AS PRACTICABLE AFTER PLACING OR STRIPPING. ACCEPTABLE METHODS OF CURING INCLUDE: -
 - MOIST CURING BY PONDING OR CONTINUOUS SPRINKLING OF WATER;
 - AN IMPERMEABLE MEMBRANE:
 - AN ABSORPTIVE COVER KEPT CONTINUOUSLY WET:
 - STEAM CURING; AND
 - AN APPROVED CURING COMPOUND.
 - IF IT IS PROPOSED TO USE A LIQUID MEMBRANE FORMING CURING COMPOUND SUBMIT THE FOLLOWING INFORMATION:
 - CERTIFIED TEST RESULTS FOR WATER RETENTION TO AS 3799 APPENDIX B:
 - EVIDENCE THAT AN ACCEPTABLE FINAL CONCRETE SURFACE COLOUR WILL BE OBTAINED;
 - EVIDENCE OF COMPATIBILITY WITH APPLIED FINISHES, IF ANY;
 - METHODS OF OBTAINING THE REQUIRED ADHESION FOR TOPPINGS, RENDER AND THE LIKE, IF ANY.
- C13. PROTECT FRESH CONCRETE FROM PREMATURE DRYING AND FROM EXCESSIVE HOT AND COLD TEMPERATURES. MAINTAIN THE CONCRETE AT A REASONABLY CONSTANT TEMPERATURE WITH MINIMUM MOISTURE LOSS FOR THE CURING PERIOD.

REINFORCEMENT

F.F. - FAR FACE BTM.

- R1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS:
 - R GRADE 250R PLAIN ROUND BAR TO AS 1302, NORMAL DUCTILITY CLASS
 - N GRADE D500N DEFORMED BAR TO AS/NZS 4671, NORMAL DUCTILITY CLASS
 - W GRADE 450W PLAIN OR DEFORMED WIRE TO AS 1303, LOW DUCTILITY CLASS
- L GRADE D500L PLAIN, DEFORMED OR INDENTED WELDED WIRE MESH TO AS/NZS 4671, LOW DUCTILITY
- R2. THE FOLLOWING ABBREVIATIONS APPLY TO THE PLACEMENT AND LOCATION OF THE REINFORCEMENT: -E.W. - EACH WAY E.F. - EACH FACE N.F. - NEAR FACE
- R3. PROVIDE STANDARD HOOKS AND COGS IN ACCORDANCE WITH AS 3600. TERMINATE ENDS OF COLUMN AND BEAM LIGATURES IN A HOOK OF AT LEAST 135°.

BTM. - BOTTOM

TYP. - TYPICAL

- R4. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY IN TRUE PROJECTION. SET REINFORCEMENT OUT AT EQUAL CENTRES WHERE SPACING IS NOT NOMINATED
- SECURE REINFORCEMENT, INCLUDING FITMENTS AND STARTER BARS, BY APPROVED CHAIRS, SPACERS, TIES AND THE LIKE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT AND TO PREVENT DISPLACEMENT DURING SUBSEQUENT CONCRETE PLACEMENT WITHIN THE TOLERANCES SPECIFIED IN CLAUSE 17.5.3 OF AS 3600.
- R6. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE SUPERINTENDENT. SUBMIT DETAILS FOR APPROVAL OF ANY PROPOSED MECHANICAL SPLICES.
- R7. LAP LENGTHS SHALL COMPLY WITH AS 3600 OR ALTERNATIVELY WITH THE FOLLOWING PROVIDED THERE IS AT LEAST 40 mm COVER TO THE BAR AND THE CLEAR DISTANCE BETWEEN ADJACENT PARALLEL BARS DEVELOPING STRESS IS AT LEAST 80 mm: -

LOCATION	t.	BAR SIZE						
LOCATION	f' _C	N12	N16	N20	N24	N28	N32	N36
HORIZONTAL BARS WITH >= 300 mm OF CONCRETE	<= 25	475	750	1100	1500	1950	2450	3000
BELOW THE BAR	32	375	575	850	1200	1550	1950	2350
	>=40	325	500	750	1050	1400	1750	2100
	<= 25	350	575	850	1200	1550	1950	2400
ALL OTHER BARS	32	300	450	675	950	1200	1550	1900
	>= 40	300	400	600	850	1100	1400	1700

LAPPED SPLICES FOR WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 13.2.3 OF AS 3600.

- R8. DO NOT WELD REINFORCEMENT UNLESS SHOWN ON THE DRAWINGS OR OTHERWISE APPROVED BY THE SUPERINTENDENT. WHERE WELDING OF REINFORCEMENT IS ALLOWED, INCLUDING TACK WELDING, IT SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF AS 3600 AND AS 1554 PART 3. DO NOT WELD REINFORCEMENT WITHIN 75 mm OF A PORTION OF THE BAR THAT HAS BEEN BENT
- DO NOT CUT, BEND NOR HEAT REINFORCEMENT ON SITE WITHOUT THE SUPERINTENDENTS APPROVAL
- R10. WHERE ROUND BAR DOWELS ARE SPECIFIED, THEY SHALL BE HOT DIP GALVANISED, STRAIGHT, SMOOTH DOWELS FREE FROM BURRS WITH SAWN ENDS, NOT SHEARED. UNLESS NOTED OTHERWISE, INSTALL DOWELS PARALLEL TO THE FINISHED SURFACE AND PERPENDICULAR TO THE PLANE OF THE JOINT. MAINTAIN DOWEL ALIGNMENT BY THE USE OF A SUITABLE SUPPORT ASSEMBLY TO ENSURE SUITABLE HORIZONTAL AND VERTICAL ALIGNMENT TOLERANCE OF 1 IN 100. DO NOT INSERT DOWELS DURING THE PLACEMENT OF CONCRETE, NOR AFTER CONCRETE HAS SET

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/159-2022

Dated: 1 June 2023

PROJECT STAMP

DRAWING SCALE

NOT TO SCALE

ISSUE REV DATE DES DESCRIPTION

A 29.09.22 LAS FOR CONSTRUCTION IF APPROVED B 20.10.22 LAS VARIOUS AMENDMENTS C 2.11.22 LAS VARIOUS AMENDMENTS

PROJECT MANAGEMENT 23569 **RPEQ CERTIFICATION** LAS RWB RWB APPROVED DESIGNER CHECKED INTERNAL PROJECT NO. R0102223 DATUM GDA 2020 SURVEY



PROJECT IDENTIFIER CLIENT KINGSLEY COLLEGE

CIVIL NOTES - SHEET 2 OF 2

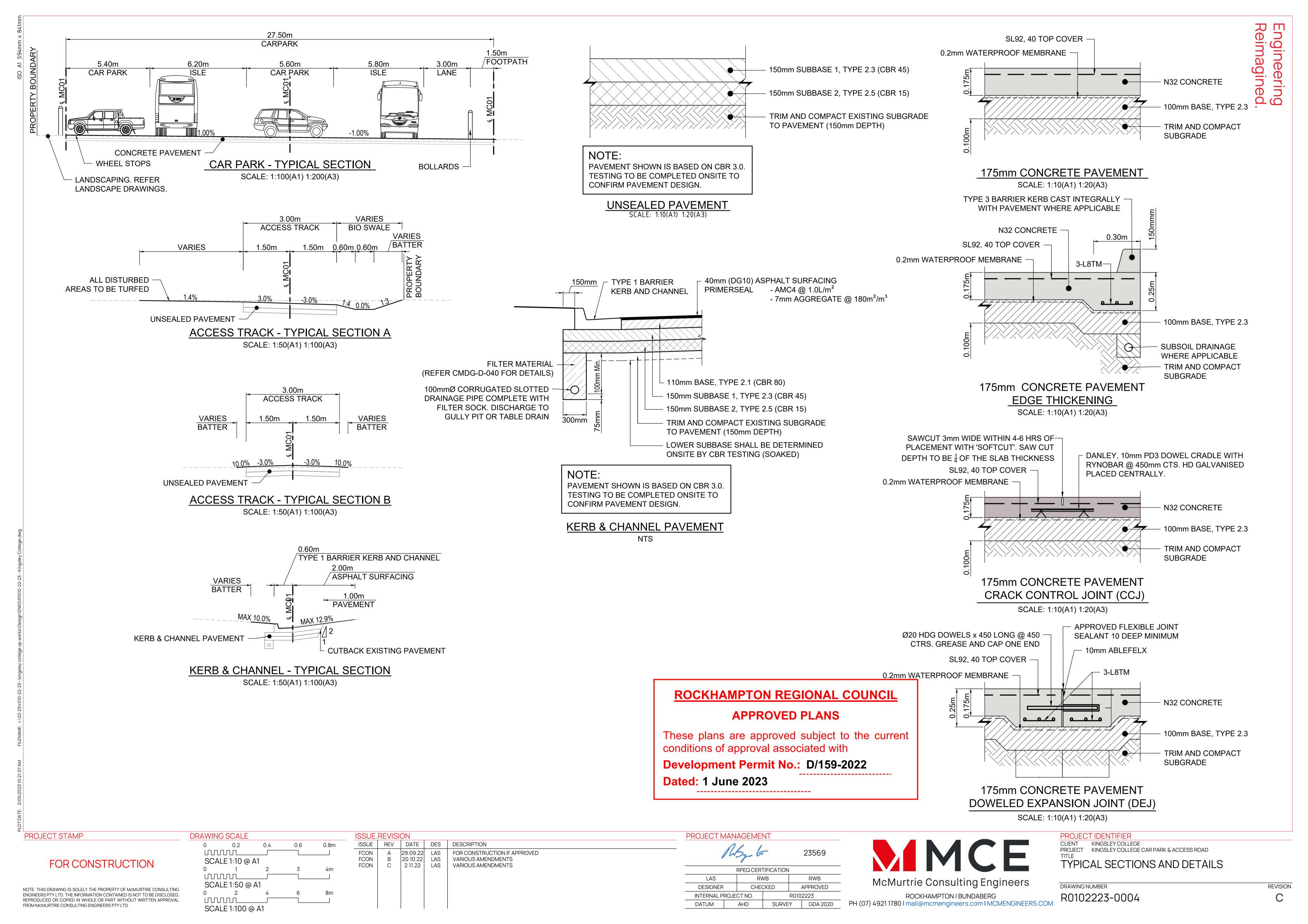
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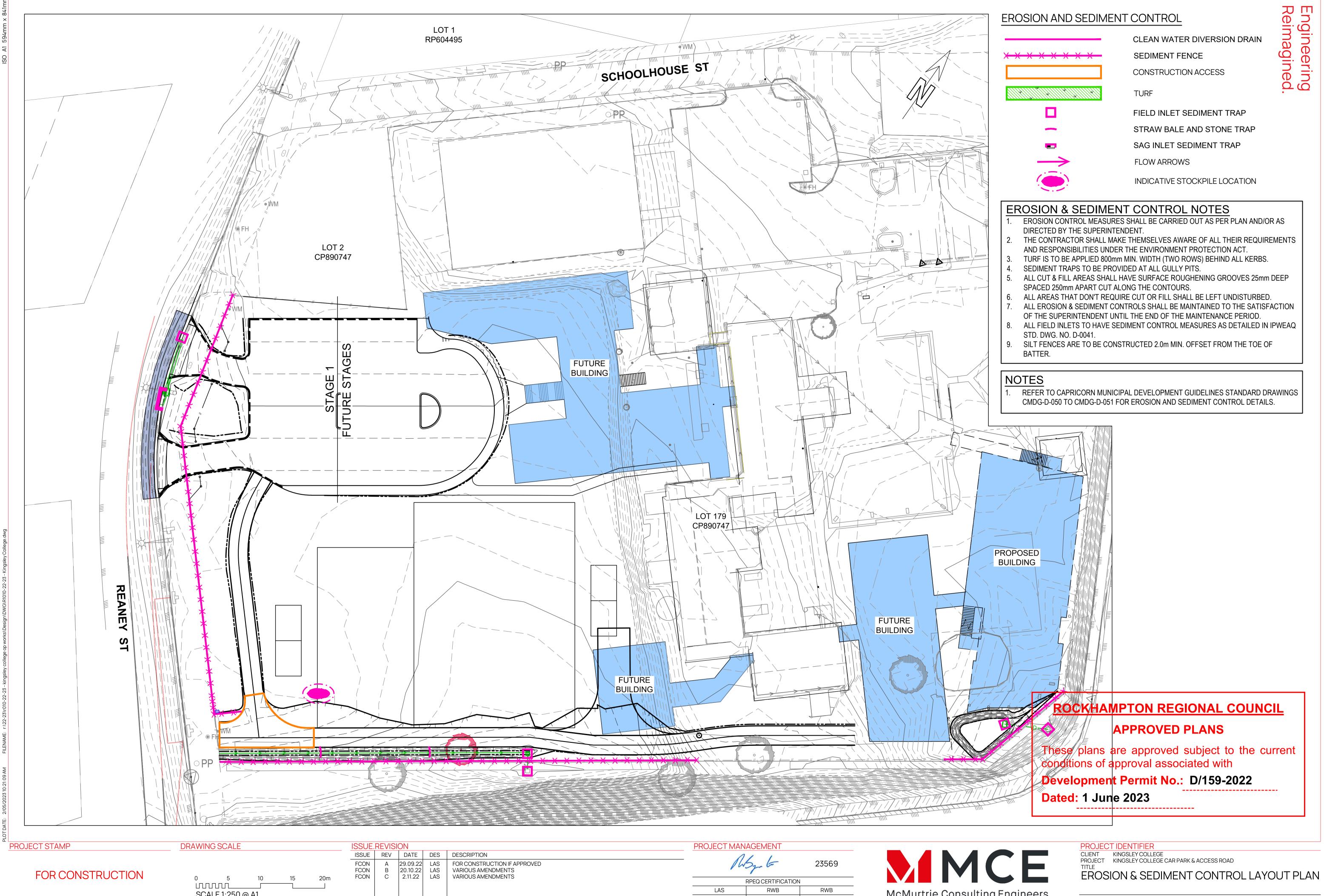
R0102223-0003

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FOR CONSTRUCTION

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SCALE 1:250 @ A1

DESIGNER CHECKED

SURVEY

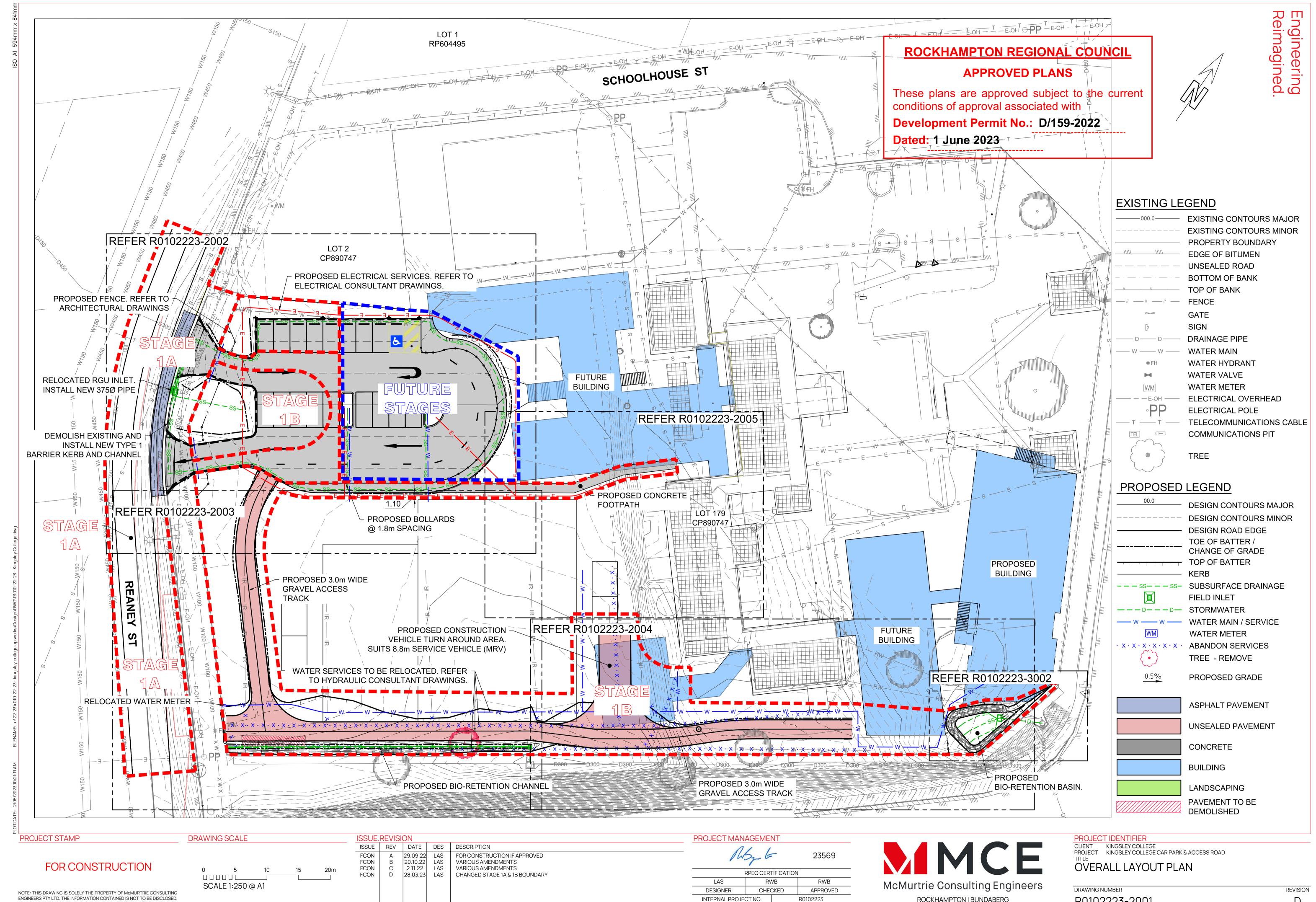
INTERNAL PROJECT NO.

DATUM

APPROVED R0102223 GDA 2020

McMurtrie Consulting Engineers ROCKHAMPTON I BUNDABERG
PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM

DRAWING NUMBER R0102223-1001

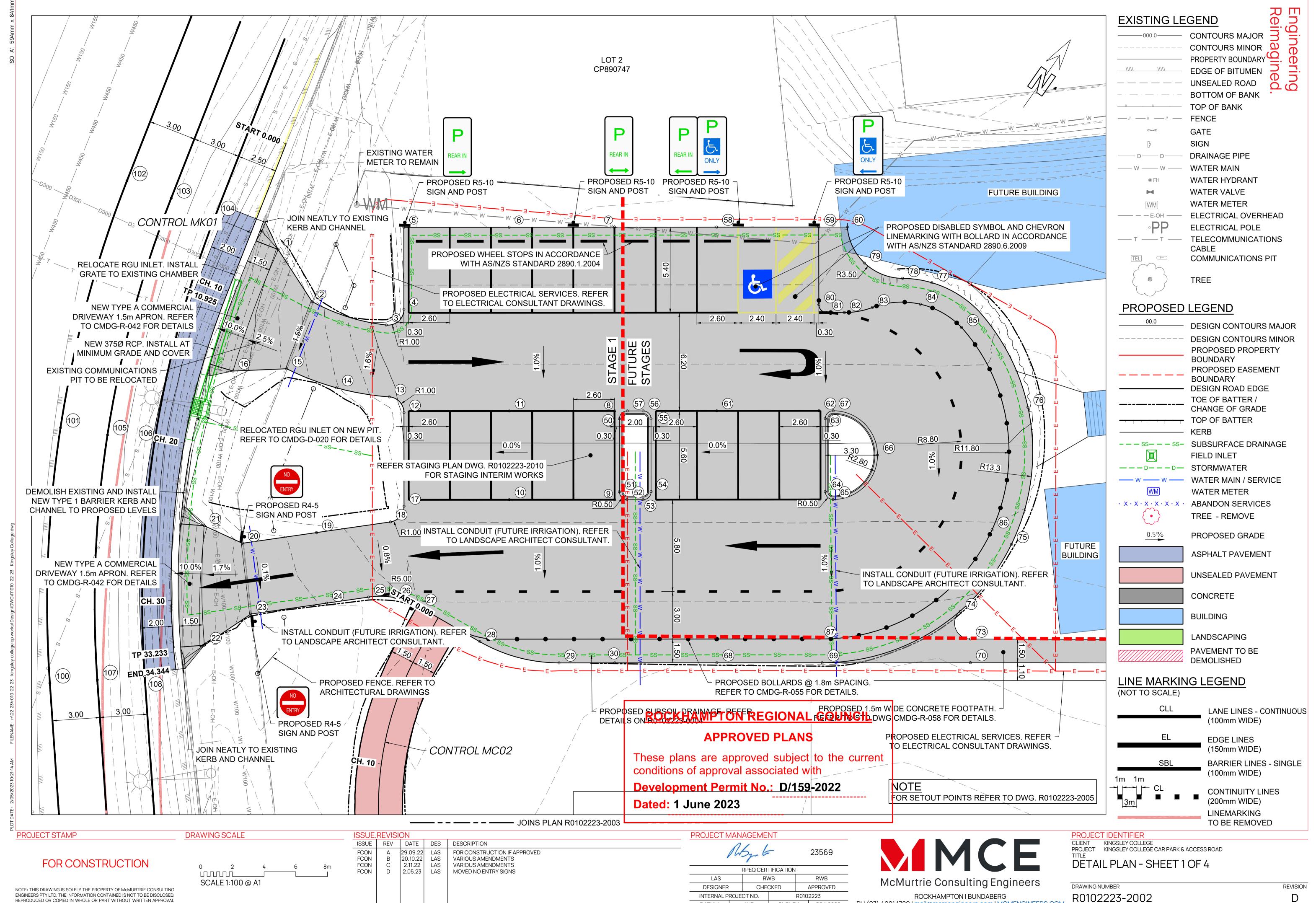


SURVEY

GDA 2020

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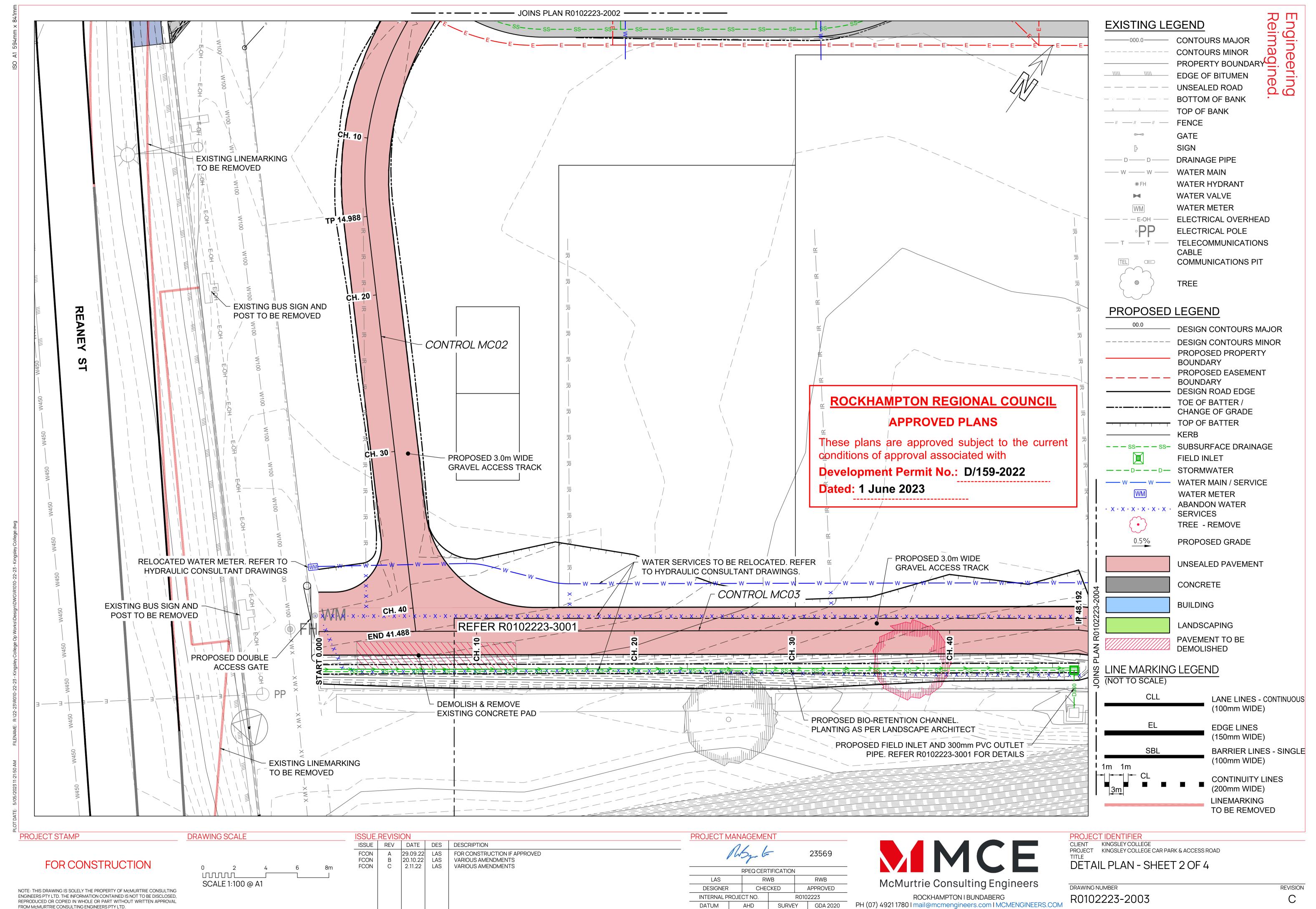


SURVEY

GDA 2020

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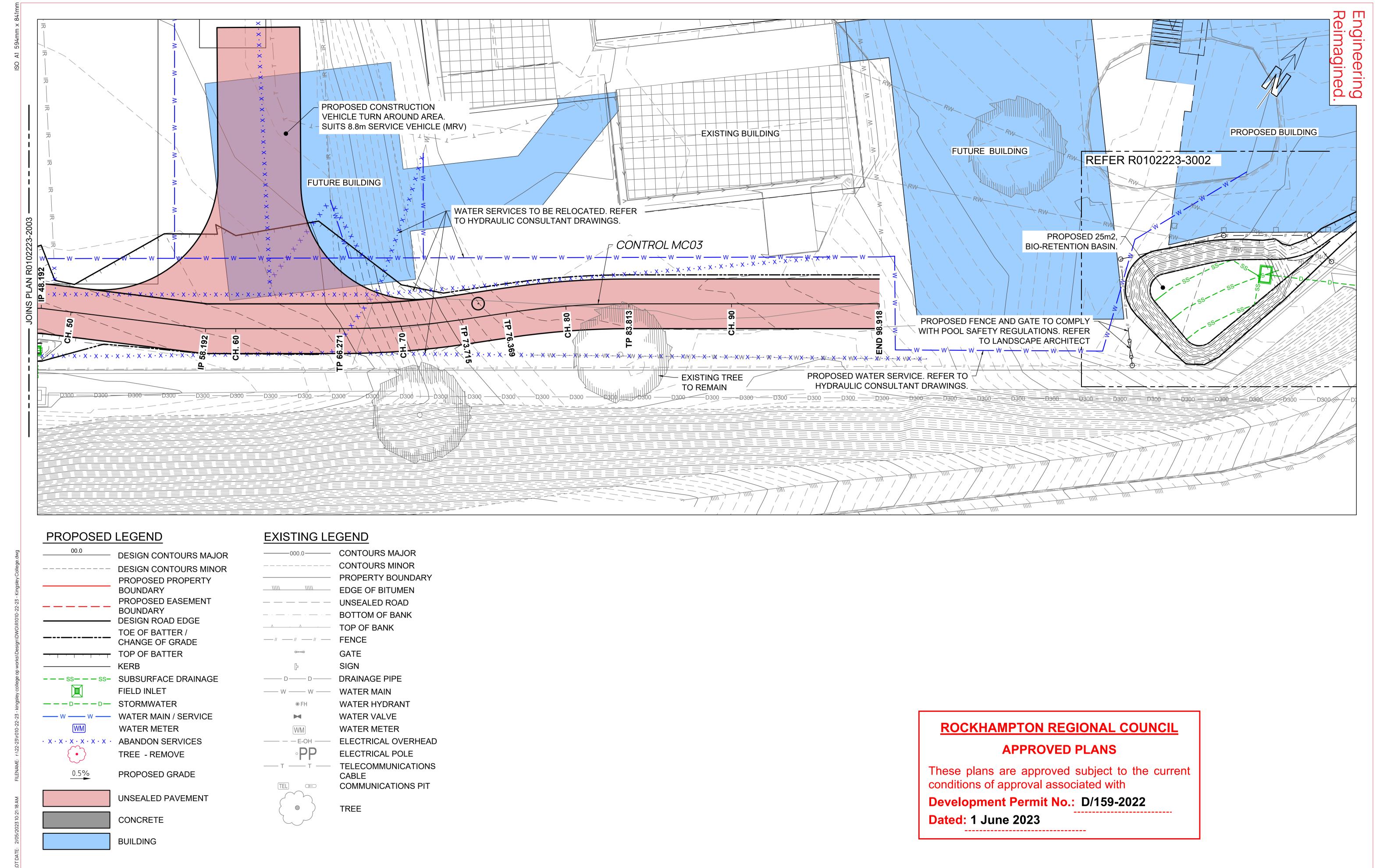
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SURVEY

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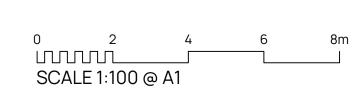
FOR CONSTRUCTION

PROJECT STAMP

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DRAWING SCALE

ISSUE REV DATE DES DESCRIPTION A 29.09.22 LAS FOR CONSTRUCTION IF APPROVED B 20.10.22 LAS VARIOUS AMENDMENTS C 2.11.22 LAS VARIOUS AMENDMENTS **FCON**

PROJECT MANAGEMENT

DATUM



SURVEY

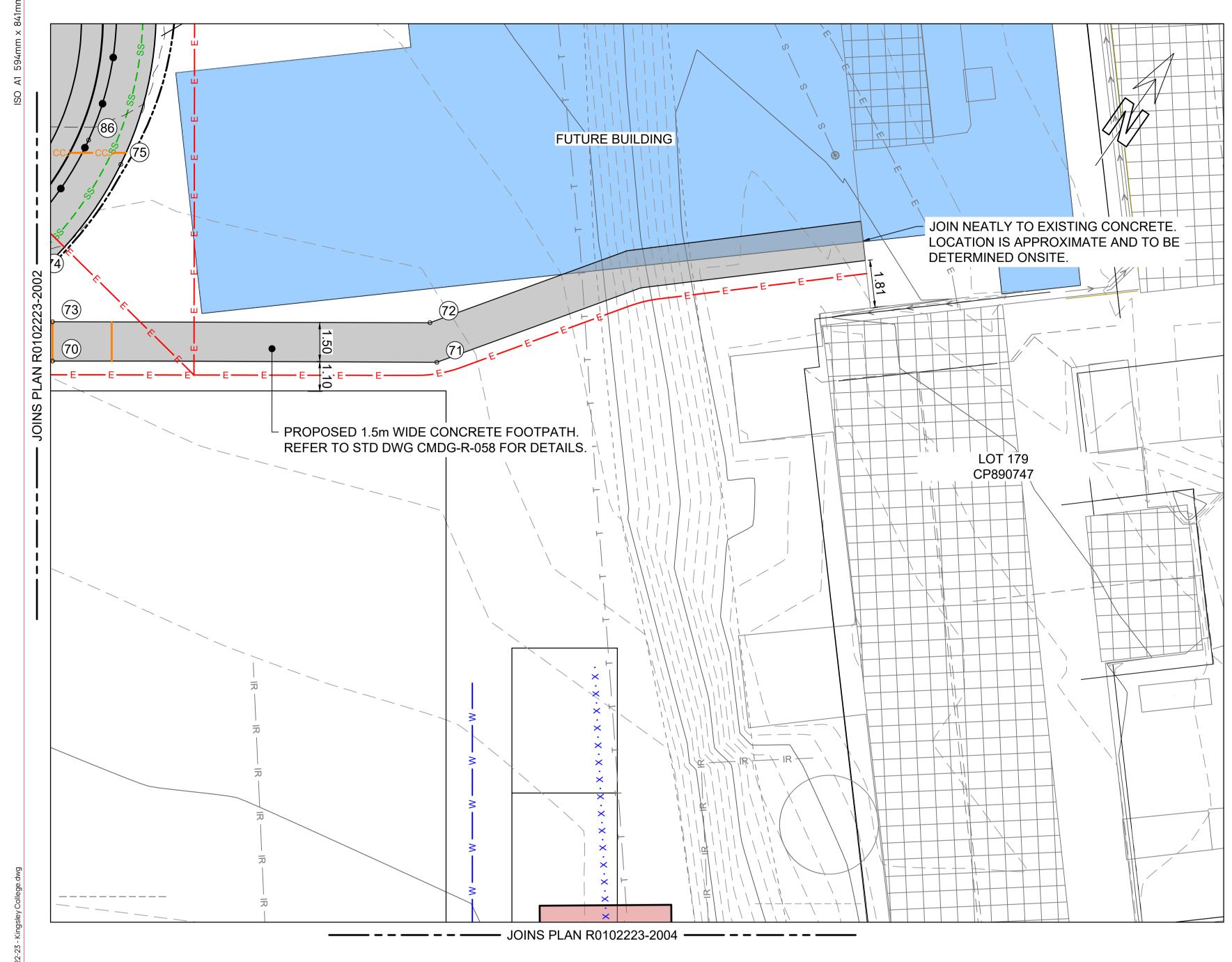
GDA 2020



PROJECT IDENTIFIER CLIENT KINGSLEY COLLEGE DETAIL PLAN - SHEET 3 OF 4

DRAWING NUMBER

R0102223-2004



1D	EXISTING

PROPOSED	LEGEND	EXISTING LE	GEND
00.0	DESIGN CONTOURS MAJOR	000.0	CONTOURS MAJOR
	DESIGN CONTOURS MINOR		CONTOURS MINOR
	DESIGN ROAD EDGE		PROPERTY BOUNDARY EDGE OF BITUMEN
	TOE OF BATTER / CHANGE OF GRADE		UNSEALED ROAD
	TOP OF BATTER		BOTTOM OF BANK
	KERB		TOP OF BANK
ssss-	SUBSURFACE DRAINAGE		FENCE
— w — w —	WATER MAIN / SERVICE		GATE
$\cdot \times \cdot \times$	ABANDON SERVICES	ŀ	SIGN
0.5%	PROPOSED GRADE	—— W ——— W ———	WATER MAIN
-		——————————————————————————————————————	ELECTRICAL OVERHEAD
	UNSEALED PAVEMENT	∘PP	ELECTRICAL POLE
		— т — т —	TELECOMMUNICATIONS
	CONCRETE		CABLE

DRAWING SCALE

S	SETOUT POINT TABLE					
PT NO.	EASTING	NORTHING	R.L			
1	246056.838	7412997.793	7.009			
2	246060.469	7412996.322	7.123			
3	246065.160	7412997.790	7.281			
4	246065.502	7412999.242	7.335			
5	246062.537	7413003.484	7.387			
6	246067.988	7413007.294	7.387			
7	246073.438	7413011.104	7.387			
8	246080.084	7413001.596	7.270			
9	246083.292	7412997.006	7.214			
10	246077.842	7412993.196	7.214			
11	246074.633	7412997.786	7.270			
12	246069.242	7412993.893	7.269			
13	246067.910	7412994.179	7.231			
14	246064.856	7412992.743	7.146			
15	246061.581	7412991.928	7.061			
16	246058.889	7412989.869	6.975			
17	246072.625	7412989.052	7.210			
18	246072.489	7412987.749	7.191			
19	246069.045	7412984.524	7.126			
20	246065.600	7412981.300	7.062			
21	246062.986	7412980.820	6.996			
22	246067.310	7412974.647	7.028			
23	246068.593	7412977.932	7.061			
24	246072.120	7412981.239	7.104			
25	246074.075	7412983.069	7.129			
26	246075.455	7412983.986	7.144			
27	246077.060	7412984.400	7.147			
28	246081.442	7412984.780	7.125			
29	246086.307	7412986.546	7.114			
30	246089.193	7412988.563	7.112			
50	246080.616	7413001.358	7.265			
51	246083.252	7412997.588	7.219			
52	246083.921	7412997.447	7.214			
53	246084.767	7412998.038	7.214			
54	246084.891	7412998.734	7.219			
55	246082.255	7413002.504	7.265			
56	246081.559	7413002.628	7.270			
57	246080.740	7413002.055	7.270			
58	246078.725	7413014.799	7.387			
59	246084.011	7413018.494	7.386			
60	246085.487	7413019.524	7.387			
61	246085.370	7413005.291	7.270			
62	246090.657	7413008.987	7.271			
63	246091.271	7413008.806	7.266			
64	246093.907	7413005.036	7.219			

PT NO.	EASTING	NORTHING	R.L
65	246094.603	7413004.913	7.214
66	246095.294	7413008.812	7.243
67	246091.395	7413009.503	7.271
68	246094.480	7412992.259	7.112
69	246099.930	7412996.067	7.112
70	246107.601	7413001.429	0.000
71	246119.596	7413009.745	0.000
72	246118.522	7413010.825	0.000
73	246106.747	7413002.650	0.000
74	246105.207	7413003.716	7.140
75	246105.450	7413009.032	7.182
76	246101.355	7413016.723	7.264
77	246091.871	7413019.699	7.340
78	246090.203	7413018.865	7.323
79	246087.688	7413018.285	7.315
80	246086.818	7413014.478	7.337
81	246087.515	7413014.355	7.333
82	246088.431	7413014.996	7.332
83	246089.692	7413016.268	7.336
84	246092.058	7413018.169	7.337
85	246095.025	7413018.456	7.324
86	246103.919	7413009.089	7.195
87	246098.907	7412997.184	7.127
100	246060.683	7412967.096	0.000
101	246052.003	7412980.702	0.000
102	246046.523	7412995.881	0.000
103	246049.441	7412996.582	0.000
104	246052.360	7412997.283	0.000
105	246054.697	7412982.027	0.000
106	246057.390	7412983.352	7.083
107	246063.020	7412968.980	0.000
108	246065.356	7412970.865	0.000

SETOUT POINT TABLE

ROCKHAMPTON REGIONAL COUNCIL **APPROVED PLANS**

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/159-2022

Dated: 1 June 2023

PROJECT STAMP

BUILDING

FOR CONSTRUCTION ______ SCALE 1:100 @ A1

ISSUE.REVISION STATE OF THE PROPERTY OF THE PR								
ISSUE	REV	DATE	DES	DESCRIPTION				
FCON FCON FCON	A B C	29.09.22 20.10.22 2.11.22		FOR CONSTRUCTION IF APPROVED VARIOUS AMENDMENTS VARIOUS AMENDMENTS				

Mby 6 23569						
RPEQ CERTIFICATION						
LAS R\			VB		RWB	
DESIGNER		CHE	CKED APPROVED			
INTERNAL P	CT NO.		R010	2223		
DATUM	DATUM AHD			Υ	GDA 2020	

PROJECT MANAGEMENT



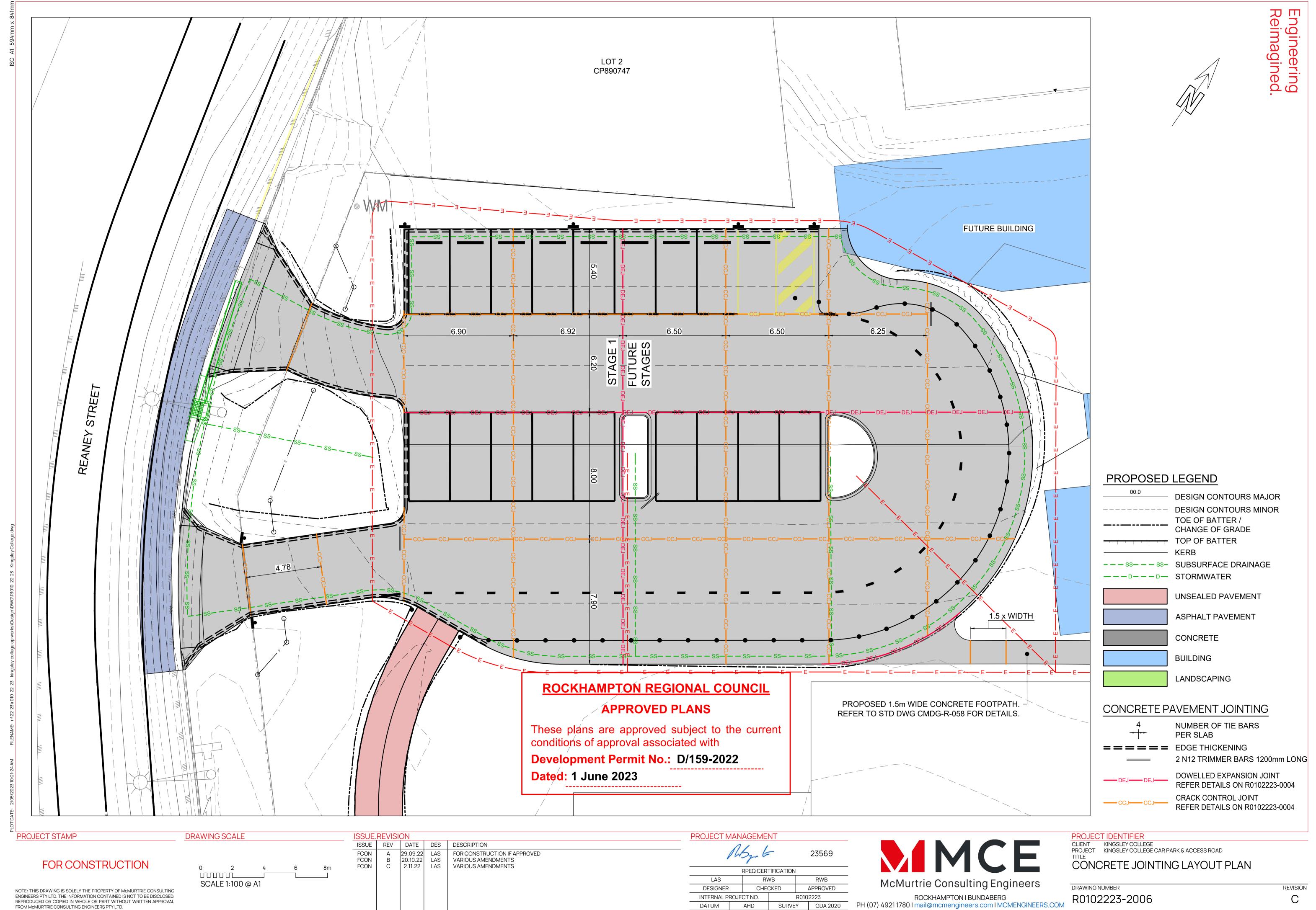
PROJECT IDENTIFIER

CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE

DETAIL PLAN - SHEET 4 OF 4

DRAWING NUMBER

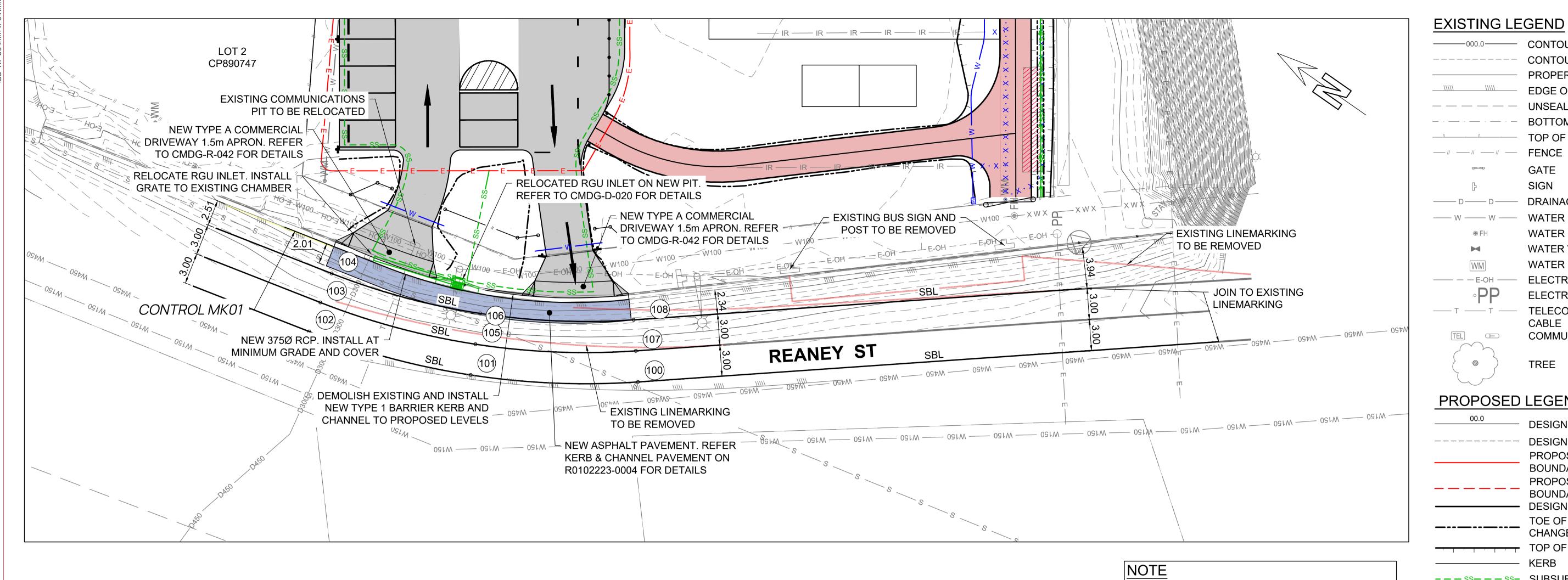
REVISION R0102223-2005



SURVEY

GDA 2020

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FOR SETOUT POINTS REFER TO DWG. R0102223-2005

CONTOURS MAJOR CONTOURS MINOR

PROPERTY BOUNDARY EDGE OF BITUMEN **UNSEALED ROAD**

ingino eima

ering gined.

BOTTOM OF BANK TOP OF BANK

FENCE GATE SIGN

DRAINAGE PIPE WATER MAIN WATER HYDRANT WATER VALVE

WATER METER ELECTRICAL OVERHEAD ELECTRICAL POLE

TELECOMMUNICATIONS

CABLE COMMUNICATIONS PIT

TREE

PROPOSED LEGEND

0.00 **DESIGN CONTOURS MAJOR** DESIGN CONTOURS MINOR PROPOSED PROPERTY BOUNDARY PROPOSED EASEMENT BOUNDARY **DESIGN ROAD EDGE** TOE OF BATTER / CHANGE OF GRADE TOP OF BATTER KERB ---ss--ss- SUBSURFACE DRAINAGE

FIELD INLET ---D---D- STORMWATER

WATER METER ABANDON WATER SERVICES

TREE - REMOVE 0.5% PROPOSED GRADE

UNSEALED PAVEMENT

CONCRETE

ASPHALT PAVEMENT

BUILDING

LANDSCAPING PAVEMENT TO BE

DEMOLISHED

LINE MARKING LEGEND (NOT TO SCALE)

LANE LINES - CONTINUOUS (100mm WIDE) **EDGE LINES** 1m 1m

(150mm WIDE) BARRIER LINES - SINGLE (100mm WIDE)

CONTINUITY LINES (200mm WIDE) LINEMARKING TO BE REMOVED

PROJECT STAMP

FOR CONSTRUCTION

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SCALE 1:200 @ A1

DRAWING SCALE

ISSUE REV DATE DES DESCRIPTION FCON A 2.05.23 LAS FOR CONSTRUCTION IF APPROVED PROJECT MANAGEMENT

DATUM

23569 RPEQ CERTIFICATION LAS RWB RWB APPROVED DESIGNER CHECKED INTERNAL PROJECT NO. R0102223

SURVEY

GDA 2020



ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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conditions of approval associated with

Dated: 1 June 2023

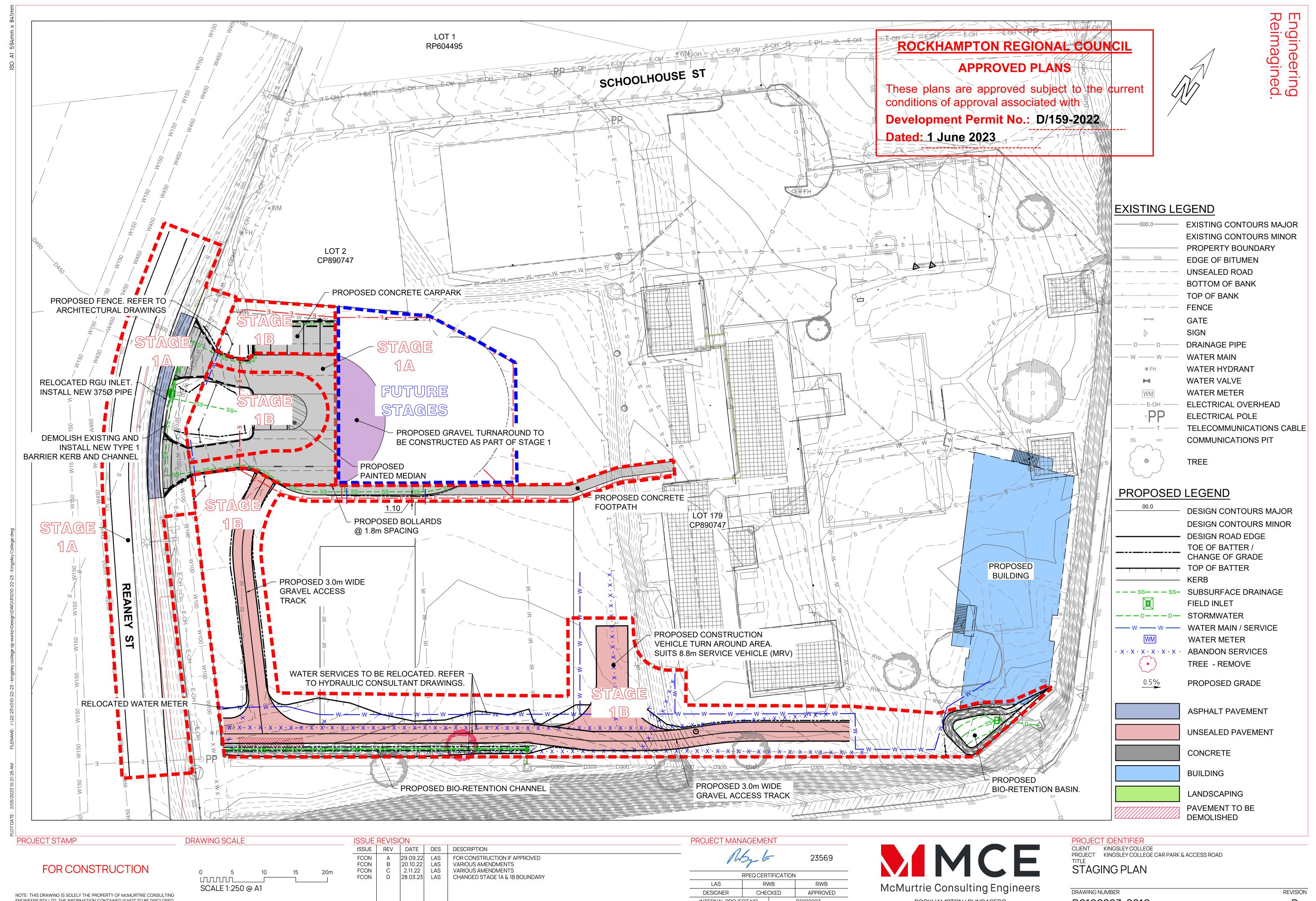
Development Permit No.: D/159-2022

PROJECT IDENTIFIER

CLIENT KINGSLEY COLLEGE

PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD ROADWORKS - DETAIL PLAN

DRAWING NUMBER R0102223-2007 PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM



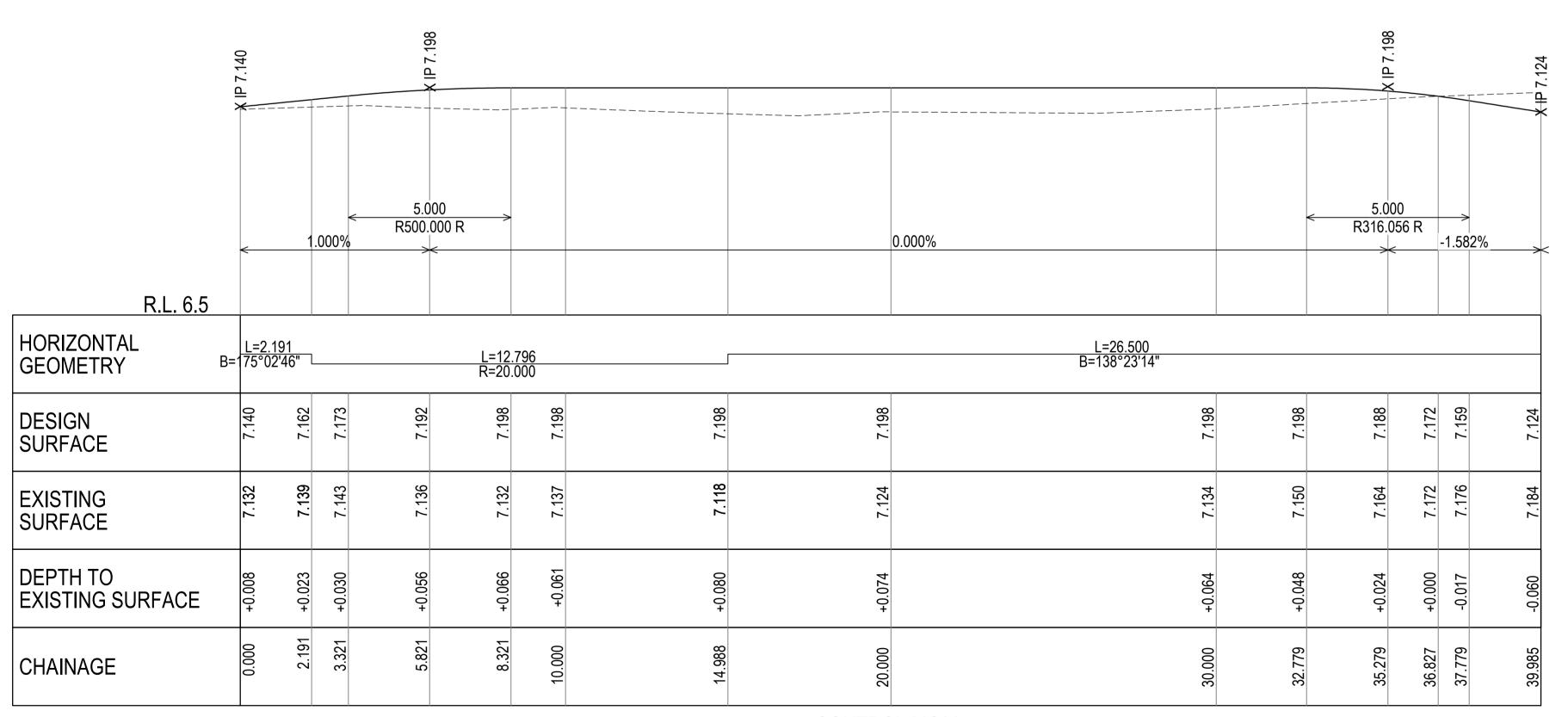
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INTERNAL PROJECT NO. R0102223 DATUM SURVEY GDA 2020 ROCKHAMPTON I BUNDABERG

PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM

R0102223-2010



CONTROL MC02 SCALE, H 1:100, V 1:10 (A1)

PROJECT STAMP

FOR CONSTRUCTION

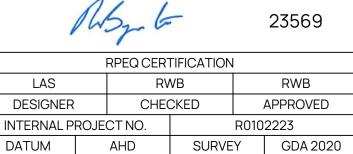
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DRAWING SCALE SCALE 1:10 @ A1 HORIZONTAL SCALE 1:100 @ A1

ISSUE REV DATE DES DESCRIPTION A 29.09.22 LAS FOR CONSTRUCTION IF APPROVED
B 20.10.22 LAS VARIOUS AMENDMENTS
C 2.11.22 LAS VARIOUS AMENDMENTS

PROJECT MANAGEMENT



INTERNAL PROJECT NO.

MCE McMurtrie Consulting Engineers

ROCKHAMPTON I BUNDABERG
PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM

Dated: 1 June 2023

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current

conditions of approval associated with

Development Permit No.: D/159-2022

PROJECT IDENTIFIER

CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE

LONGITUDINAL SECTION - CONTROL MC02

DRAWING NUMBER

REVISION R0102223-2101

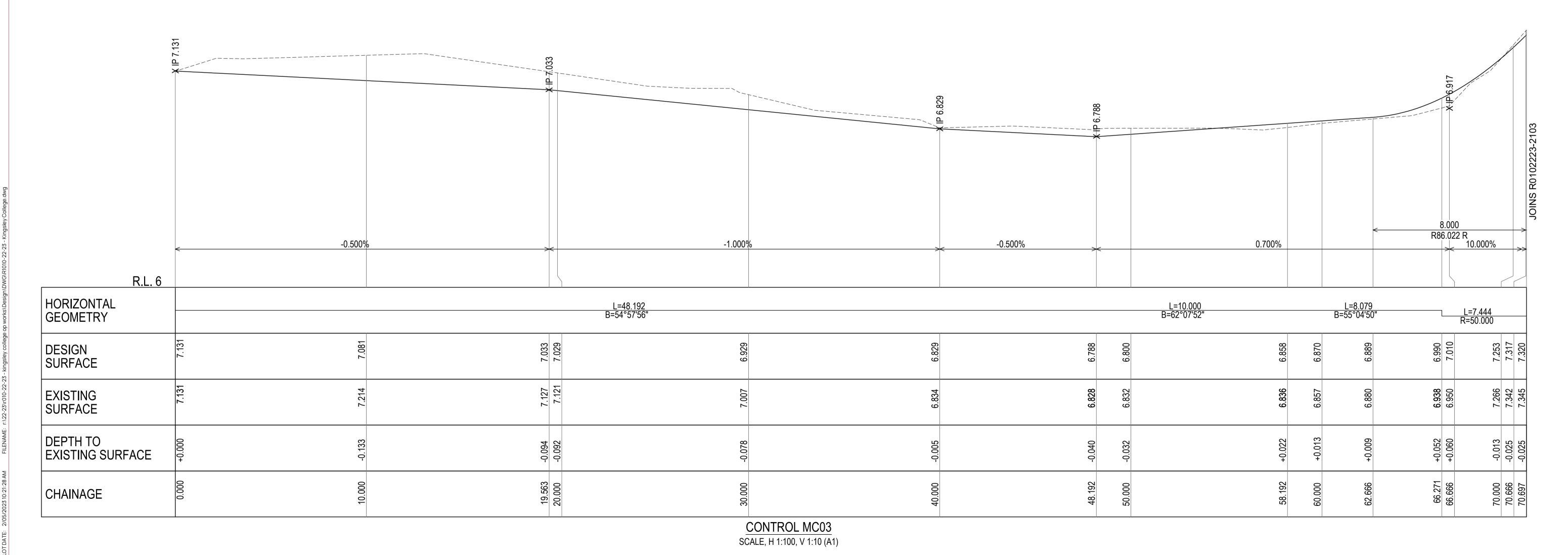
ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

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Development Permit No.: D/159-2022

Dated: 1 June 2023



PROJECT STAMP

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RAWING SCALE				
VERTICAL 0 0.2 LITATATA SCALE 1:10 @ A	0.4	0.6	0.8m l	
HORIZONTAL				
0 2	4	6	8m	
SCALE 1:100 @	A1			

ISSUE.	REVISI	ON		
ISSUE	REV	DATE	DES	DESCRIPTION
FCON FCON FCON	A B C	29.09.22 20.10.22 2.11.22		FOR CONSTRUCTION IF APPROVED VARIOUS AMENDMENTS VARIOUS AMENDMENTS



PROJECT IDENTIFIER CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE
LONGITUDINAL SECTION - CONTROL MC03

DRAWING NUMBER REVISION

R0102223-2102

CONTROL MC03 SCALE, H 1:100, V 1:10 (A1)

DRAWING SCALE ISSUE REV DATE DES DESCRIPTION A 29.09.22 LAS FOR CONSTRUCTION IF APPROVED B 20.10.22 LAS VARIOUS AMENDMENTS C 2.11.22 LAS VARIOUS AMENDMENTS SCALE 1:10 @ A1 HORIZONTAL

CONTROL MK01 - SETOUT TABLE SEGMENT CHAINAGE EASTING NORTHING RADIUS LENGTH BEARING 7413003.546 7412992.918 START 246053.430 0.000 STRAIGHT 10.925m 166°36'46" L#8 END 10.925 246055.959 7412992.918 10.925 246055.959 165°53'07" 49.87m 22.308m C#4 7412973.194 33.233 246065.978 140°15'27" START 7412973.194 246065.978 33.233 138°43'28" L#9 STRAIGHT 1.112m 34.344 246066.711 7412972.359 END

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/159-2022

Dated: 1 June 2023

-----0.000% -0.400% 0.416% R.L. 6 HORIZONTAL L=10.925 B=166°36'46" L=1<u>.112</u> B=138[©]43'28' L=22.308 R=49.874 **GEOMETRY DESIGN** SURFACE **EXISTING** SURFACE DEPTH TO -0.003 **EXISTING SURFACE** CHAINAGE

CONTROL MK01 SCALE, H 1:100, V 1:10 (A1)

PROJECT MANAGEMENT MCE 23569 RPEQ CERTIFICATION

LAS

DESIGNER

DATUM

INTERNAL PROJECT NO.

RWB

CHECKED

RWB

R0102223

SURVEY

PROJECT IDENTIFIER CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE

LONGITUDINAL SECTION - CONTROL MC03 & MK01

DRAWING NUMBER

R0102223-2103

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FOR CONSTRUCTION

CHAINAGE

PROJECT STAMP

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SCALE 1:100 @ A1

McMurtrie Consulting Engineers APPROVED ROCKHAMPTON I BUNDABERG
PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM GDA 2020

INTERNAL PROJECT NO.

DATUM

R0102223

GDA 2020

SURVEY

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DESIGNER

DATUM

INTERNAL PROJECT NO.

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CHECKED

APPROVED

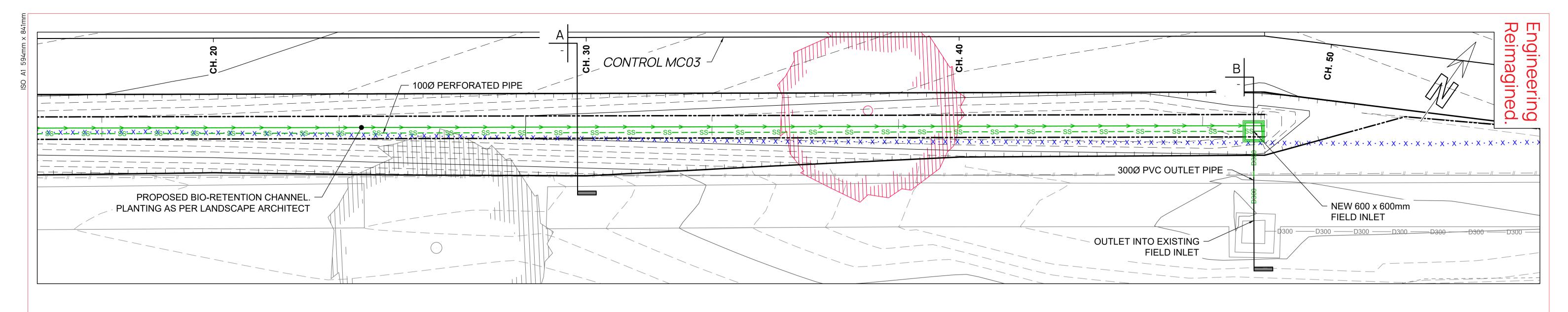
GDA 2020

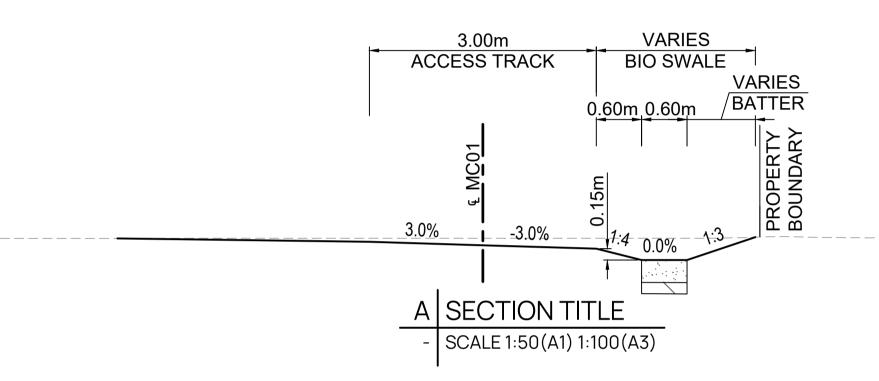
R0102223

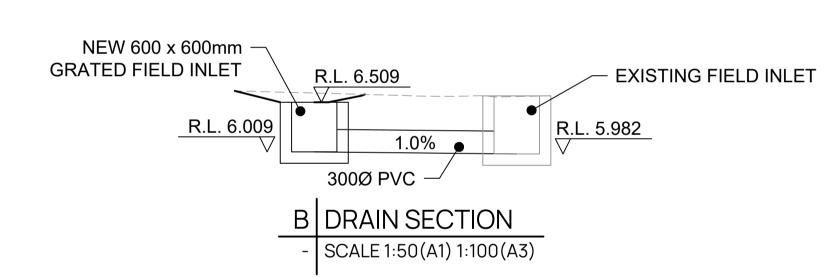
SURVEY

ROCKHAMPTON I BUNDABERG
PH (07) 4921 1780 I mail@mcmengineers.com I MCMENGINEERS.COM

R0102223-2202





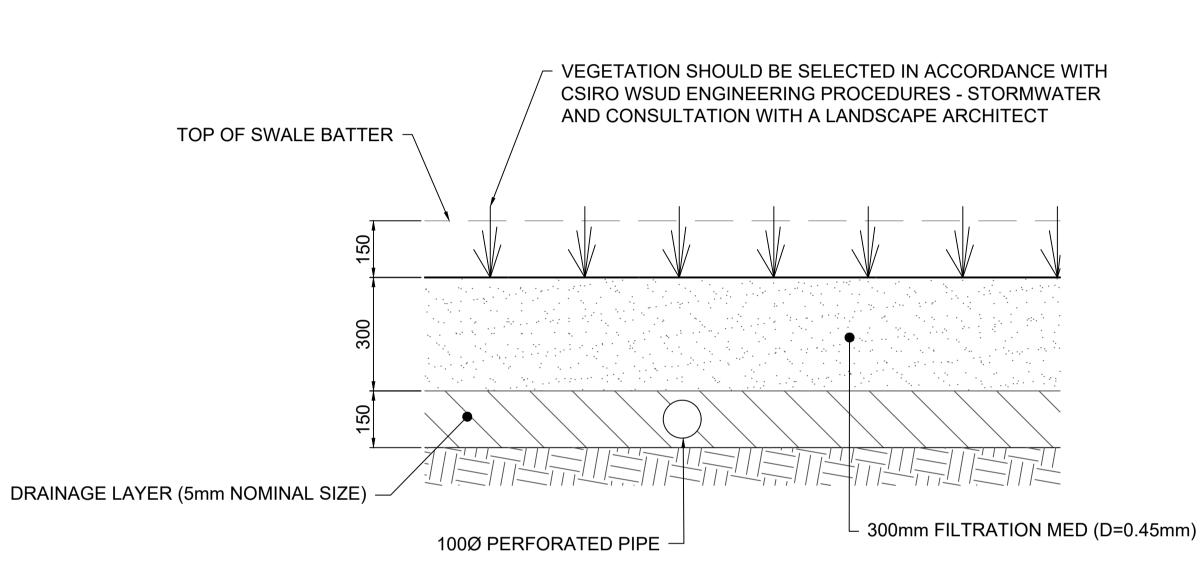


NOTES

REGULAR MAINTENANCE SHOULD BE CARRIED OUT TO:

- REMOVE WEEDS,
- FERTILISE PLANTS
- REPLANT AS REQUIRED
- REMOVE DEBRIS AND EXCESS SEDIMENT

FILTRATION MEDIA PROPERT	TES
FILTER	SANDY LOAM
d ₅₀	0.45mm
SATURATED HYDRAULIC CONDUCTIVITY	200mm/hr
TN CONTENT OF FILTER MEDIA	400mg/kg
ORTHOPHOSPHATE CONTENT OF FILTER MEDIA	30mg/kg



BIO-RETENTION SWALE DETAIL SCALE: 1:10(A1) 1:20(A3)

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/159-2022

Dated: 1 June 2023

PROJECT STAMP

FROM McMURTRIE CONSULTING ENGINEERS PTY LTD.

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 1 1777 LE 1:50 @	2 Σ Δ1	3	4m

DRAWING SCALE

	ISSUE.REVISION						
	ISSUE	REV	DATE	DES	DESCRIPTION		
·m J	FCON FCON FCON	A B C	29.09.22 20.10.22 2.11.22		FOR CONSTRUCTION IF APPROVED VARIOUS AMENDMENTS VARIOUS AMENDMENTS		

,	M.	5y 6	,—		23569	
RPEQ CERTIFICATION						
LAS		RV	VB	RWB		
DESIGNER		CHE	CKED		APPROVED	
INTERNAL P	CT NO.		R010	2223		
DATUM	DATUM		SURVE	Υ	GDA 2020	

PROJECT MANAGEMENT

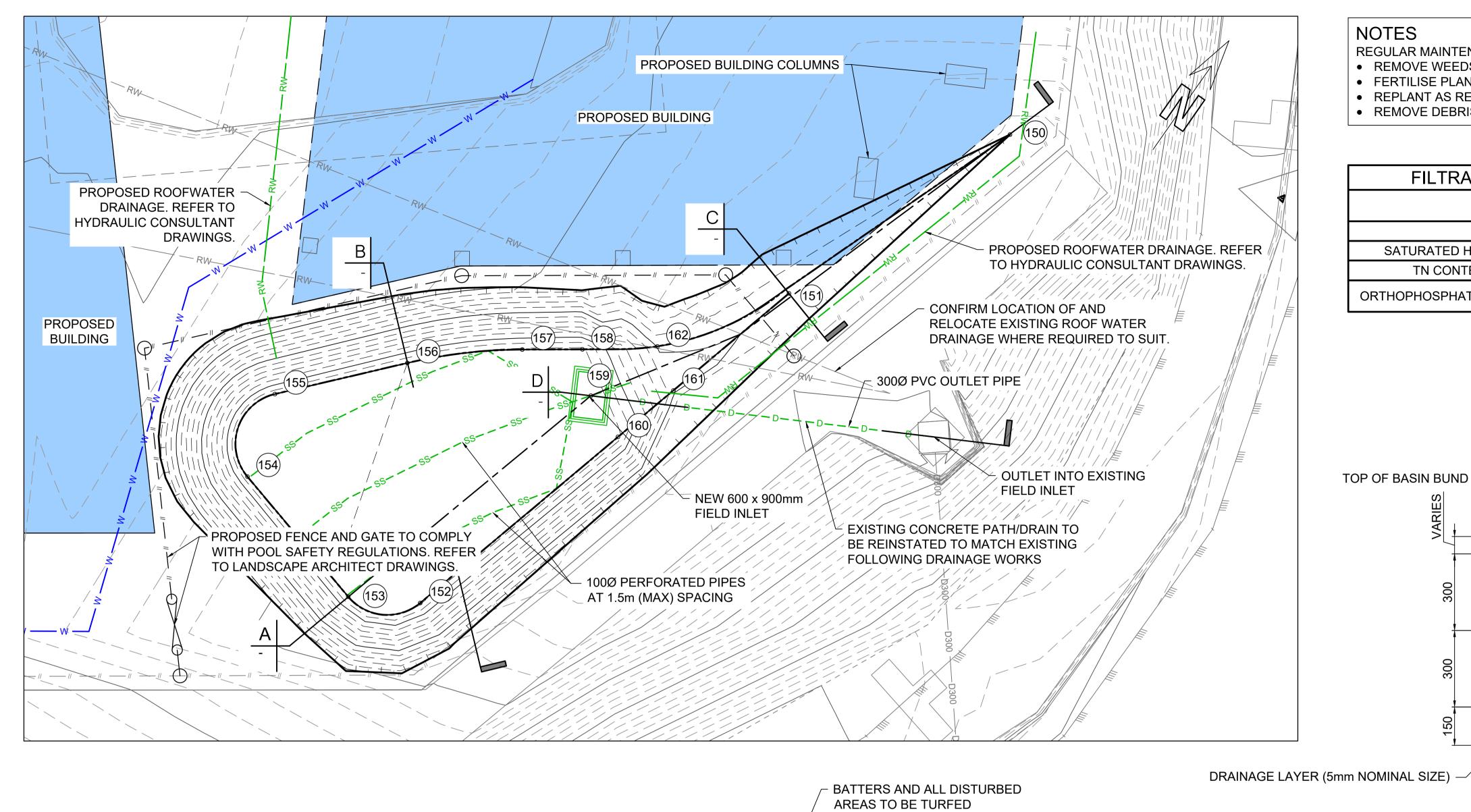


PROJECT IDENTIFIER

CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE

STORMWATER BIO RETENTION SWALE

DRAWING NUMBER R0102223-3001



R.L. 6.435

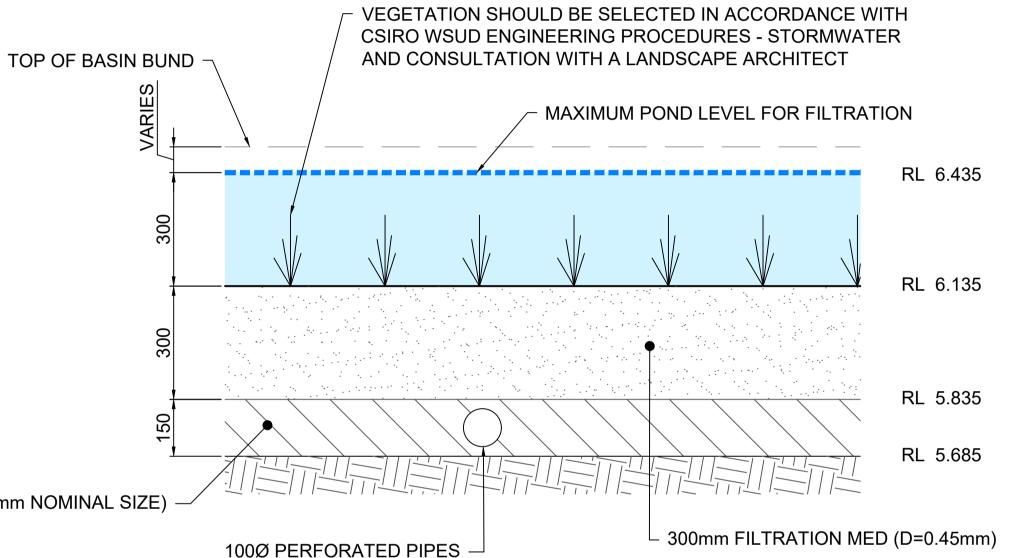
300Ø PVC

NOTES

REGULAR MAINTENANCE SHOULD BE CARRIED OUT TO:

- REMOVE WEEDS,
- FERTILISE PLANTS
- REPLANT AS REQUIRED
- REMOVE DEBRIS AND EXCESS SEDIMENT

FILTRATION MEDIA PROPERTIES				
FILTER	SANDY LOAM			
d ₅₀	0.45mm			
SATURATED HYDRAULIC CONDUCTIVITY	200mm/hr			
TN CONTENT OF FILTER MEDIA	400mg/kg			
ORTHOPHOSPHATE CONTENT OF FILTER MEDIA	30mg/kg			

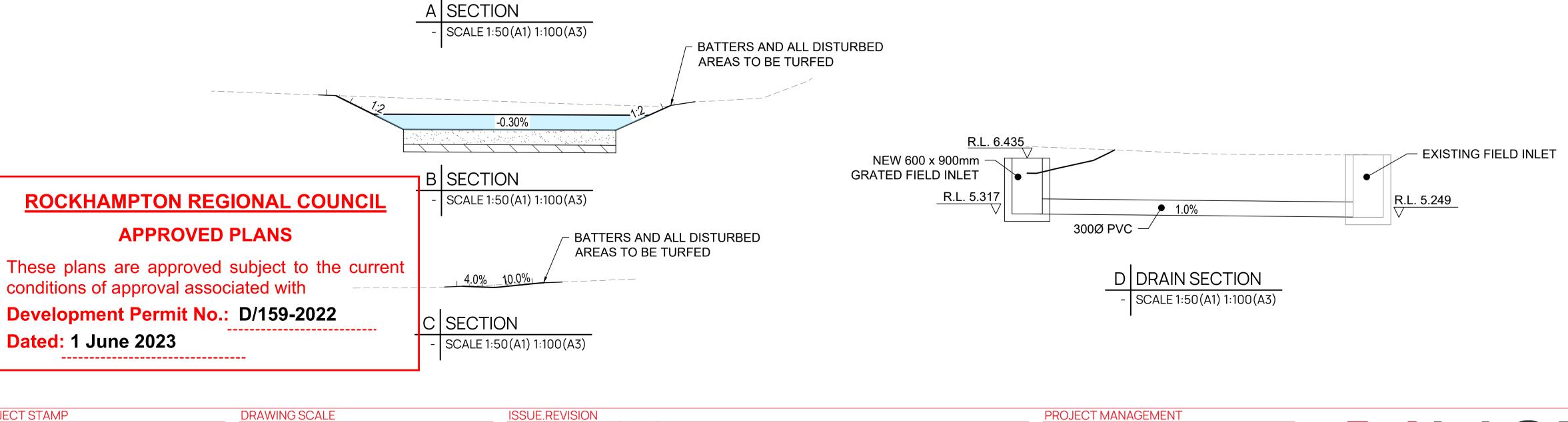


BIO-RETENTION BASIN DETAIL

AT 1.5m (MAX) SPACING

SCALE: 1:10(A1) 1:20(A3)

SETOUT POINT TABLE				
PT NO.	EASTING	NORTHING R		
150	246198.831	7413027.966	6.544	
151	246197.061	7413022.934	6.509	
152	246194.609	7413013.826	6.140	
153	246193.382	7413013.120	6.148	
154	246190.415	7413013.919	6.163	
155	246189.931	7413015.553	6.163	
156	246191.710	7413017.537	6.150	
157	246193.406	7413019.042	6.139	
158	246194.371	7413019.720	6.135	
159	246195.027	7413019.069	6.126	
160	246195.923	7413018.712	6.126	
161	246196.292	7413020.079	6.479	
162	246195.543	7413020.608	6.503	

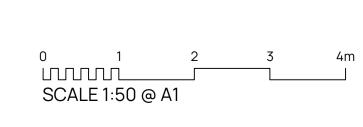


0.5%

PROJECT STAMP

FOR CONSTRUCTION

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-0.30%

	1550L.KLVISION					
	ISSUE	REV	DATE	DES	DESCRIPTION	
	FCON	А	29.09.22		FOR CONSTRUCTION IF APPROVED	
	FCON	В	20.10.22	LAS	VARIOUS AMENDMENTS	
_• m	FCON	С	2.11.22	LAS	VARIOUS AMENDMENTS	
_						
			1 1		l	



GDA 2020

SURVEY

DATUM

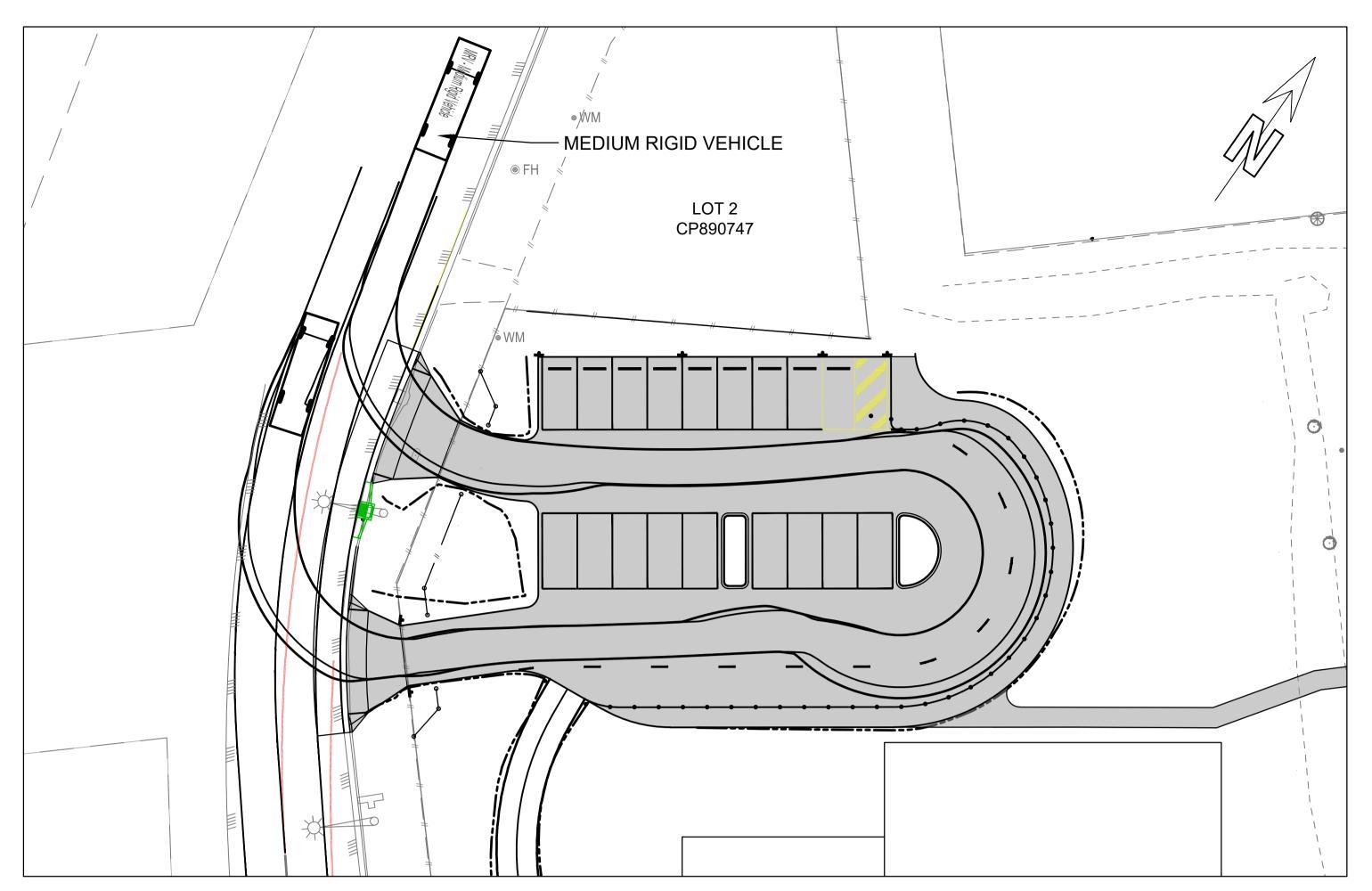


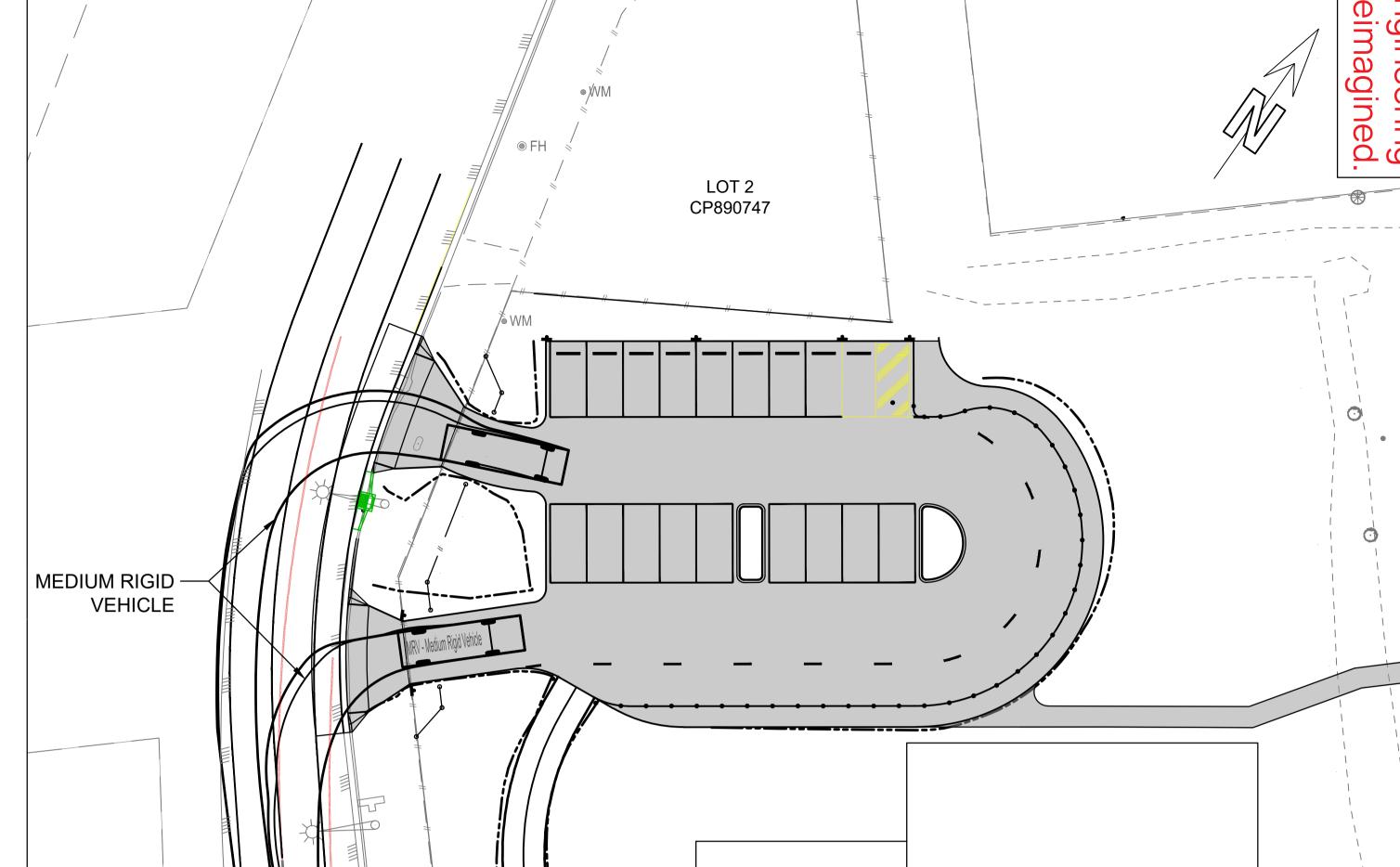
PROJECT IDENTIFIER

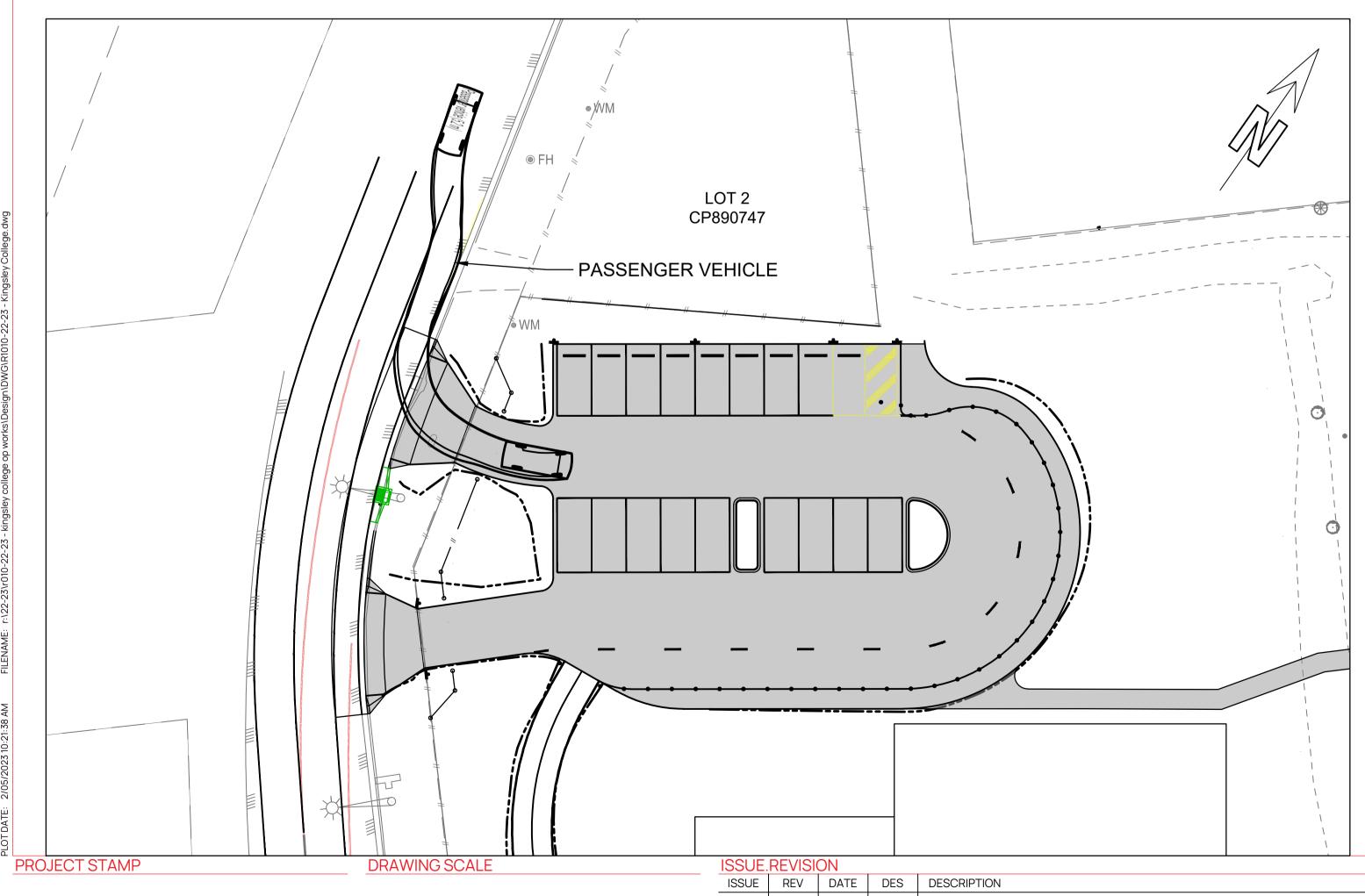
CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE

STORMWATER BIO RETENTION POND

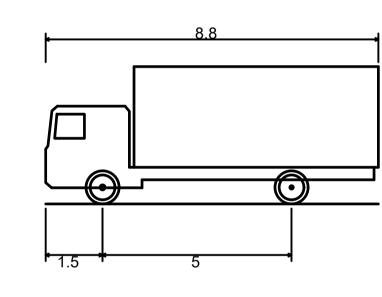
DRAWING NUMBER R0102223-3002



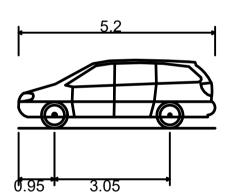




FCON A 2.05.23 LAS FOR CONSTRUCTION IF APPROVED



MRV - Medium Rigid Vehicle Overall Length Overall Width Overall Body Height Min Body Ground Clearance Track Width Lock-to-lock time Curb to Curb Turning Radius



Passenger vehicle (5.2 m)
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock-to-lock time
Curb to Curb Turning Radius

5.200m 1.940m 1.804m 0.295m 1.840m 4.00s 6.300m

ROCKHAMPTON REGIONAL COUNCIL

APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No.: D/159-2022

Dated: 1 June 2023

8.800m 2.500m 3.633m 0.428m 2.500m

4.00s 10.000m

PROJECT MANAGEMENT

DATUM



SURVEY

GDA 2020



PROJECT IDENTIFIER

CLIENT KINGSLEY COLLEGE
PROJECT KINGSLEY COLLEGE CAR PARK & ACCESS ROAD
TITLE

VEHICLE TURN PATHS

DRAWING NUMBER R0102223-4001

FOR CONSTRUCTION

SCALE 1:250 @ A1