

DELEGATED REPORT**TO:** COORDINATOR PLANNING & BUILDING**FROM:** Supervisor Planning & Building**FILE:** OPW/25/0003**DATE:** 19 August 2025

APPLICATION DETAILS

APPLICATION		PREMISES	
FILE NO:	OPW/25/0003	ADDRESS:	405 Chewko Road, Mareeba
APPLICANT:	BESTRUCT	RPD:	Lot 71 on SP292140
LODGED BY:	BESTRUCT	AREA:	28.73 hectares
DATE LODGED:	9 July 2025	OWNER:	Stelbay Pty Ltd
TYPE OF APPROVAL:	Development Permit		
PROPOSED DEVELOPMENT:	Operational Works (Internal/External Roadworks, Earthworks, Stormwater, Water Supply and On-site Carparking for Two Rivers Community School – Development Permit MCU/23/0012)		
PLANNING SCHEME:	Mareeba Shire Council Planning Scheme 2016		
ZONE:	Rural zone		
LEVEL OF ASSESSMENT:	Code Assessment		

PREVIOUS APPLICATIONS & APPROVALS

MCU/23/0012

DESCRIPTION OF PROPOSED DEVELOPMENT

- Operational Works (Internal/External Roadworks, Earthworks, Stormwater, Water Supply and On-site Carparking for Two Rivers Community School – Development Permit MCU/23/0012)

ASSESSMENT**State Planning Policy**

Separate assessment against the State Planning Policy (SPP) is not required because the Mareeba Shire Council Planning Scheme appropriately integrates all relevant aspects of the SPP.

Relevant Development Codes

The following Development Codes are considered to be applicable to the assessment of the application:

- 6.2.9 Rural zone code
- 9.4.4 Reconfiguring a lot code

9.4.5 Works, services and infrastructure code

The application did not include a planning report and assessment against the planning scheme. An officer assessment has found that the application satisfies the relevant acceptable solutions (or probable solutions/performance criteria where no acceptable solution applies) of the relevant codes set out below.

Relevant Codes	Comments
Rural zone code	The application can be conditioned to comply with the relevant acceptable outcomes contained within the code.
Reconfiguring a lot code	The application can be conditioned to comply with the relevant acceptable outcomes contained within the code.
Works, services and infrastructure code	The application can be conditioned to comply with the relevant acceptable outcomes contained within the code.

Compliance with conditions of earlier related approval

MCU/23/0012 – Material Change of Use – Educational Establishment

CONDITIONS

1. Development must be carried out generally in accordance with the approved plans and the facts and circumstances of the use as submitted with the application, subject to any alterations:
 - found necessary by Council's delegated officer at the time of examination of the engineering plans or during construction of the development because of particular engineering requirements; and
 - to ensure compliance with the following conditions of approval.
2. Timing of Effect
 - 2.1 The conditions of the development permit applicable to each stage must be complied with to the satisfaction of Council's delegated officer prior to the commencement of the relevant stage of the use except where specified otherwise in these conditions of approval.
 - 2.2 Prior to the commencement of each stage of the use, the applicant must notify Council that all the conditions of the development permit have been complied with, except where specified otherwise in these conditions of approval.
3. General
 - 3.1 The development approval would not have been issued if not for the conditions requiring the construction of infrastructure or the payment of infrastructure charges within the conditions of approval or the Adopted Infrastructure Charges Notice.
 - 3.2 The applicant/developer is responsible for the cost of necessary alterations to existing public utility mains, services or installations required by works in relation to the proposed development or any works required by condition(s) of this approval.

3.3 All payments or bonds required to be made to the Council pursuant to any condition of this approval must be made prior to commencement of the use and at the rate applicable at the time of payment.

3.4 All works must be designed, constructed and carried out in accordance with FNQROC Development Manual requirements (as amended) and to the satisfaction of Council's delegated officer.

3.5 Waste Management

3.5.1 On site refuse storage area/s must be provided and be screened from view from adjoining properties and road reserve by 1 metre wide landscaped screening buffer or 1.8m high solid fence or building.

3.5.2 Where bulk bins are used and are to be serviced on site, prior to the issue of a development permit for building works, Council's delegated officer must be satisfied that internal access is of adequate design and construction to allow waste collection/delivery vehicles to enter and exit the site in a forward gear only.

3.5.3 All waste storage areas must remain covered and no food scraps disposed of on-site so as to not encourage scavenging from wildlife and birdlife.

3.6 Noise Nuisance

Refrigeration equipment, pumps, compressors and mechanical ventilation systems must be located, designed, installed and maintained to achieve a maximum noise level of 3dB(A) above background levels as measured from noise sensitive locations and a maximum noise level of 8dB(A) above background levels as measured from commercial locations.

3.7 Air Conditioner & Building Plant Screening

The applicant/developer is required to install and maintain suitable screening to all air conditioning, lift motor rooms, plant and service facilities located at the top of or on the external face of the building. The screening structures must be constructed from materials that are consistent with materials used elsewhere on the facade of the building. There are to be no individual external unscreened air conditioning units attached to the exterior building facade.

3.8 Emissions

Emissions associated with the development must not cause an 'environmental nuisance' within the meaning of the Environmental Protection Act (1994) to any sensitive receptor.

3.9 Safety fencing

A child proof fence or physical barrier is provided to prevent unintended access to the following areas, directly from indoor or outdoor areas intended to accommodate children:

- (a) Vehicle manoeuvring and parking areas;
- (b) Refuse storage and servicing areas; and
- (c) Air conditioning, refrigeration plant and mechanical plant.

The location and extent of fencing shall be determined by the applicant/developer after carrying out a risk assessment.

3.10 Student Enrolments

The total number of enrolled students shall not exceed three hundred (300), unless prior approval is granted by Council for an expansion of the existing use.

3.11 Bushfire Management

3.11.1 A Bushfire Hazard Management Plan for the site, incorporating evacuation procedures, must be prepared to the satisfaction of Council's delegated officer. The approved use must comply with the requirements of the Bushfire Hazard Management Plan at all times.

3.11.2 An on-site water supply for firefighting purposes must be provided with a minimum capacity of 5,000 litres that must comprise either:

- (a) a stand-alone tank; or
- (b) a reserve section in the bottom part of the main water supply tank; or
- (c) a dam; or
- (d) a swimming pool.

Where tank water supply is provided, the outlet must be fitted with a 50mm ball valve with a camlock fitting for connection to firefighting appliances.

3.12 Biosecurity Management Plan

A Biosecurity Management Plan must be prepared and implemented for the site.

4. Infrastructure Services and Standards

4.1 Development Access

4.1.1 The access off Chewko Road must be designed and constructed in accordance with FNQROC Development Manual standard drawing for Rural Access S1105. The width and turn radius of the seal must be determined based on swept paths of the largest vehicle that would enter and exit the site.

- 4.1.2 The full length of the access road from Chewko Road to the property boundary must be upgraded/constructed to provide pavement and seal of a suitable standard to accommodate expected traffic volumes accessing the school.
- 4.1.3 The access road must be of a suitable width to accommodate two-way traffic including two buses passing each other. Turning paths confirming that vehicles can safely navigate the bends along the access road must be provided as part of the Operational Works application.
- 4.1.4 The railway level crossing must be upgraded in accordance with the State Assessment and Referral Agency response dated 30 May 2024.
- 4.1.5 The intersection of the existing access to the neighbouring properties to the south must be formalised from the new access road.

The works described above must be undertaken prior to commencement of use of Stage 1, at no cost to Council and will require approval under an Operational Works permit.

4.2 External Works

- 4.2.1 Design and construct the widening of Chewko Road pavement and seal on both approaches to the access intersection to provide trafficable shoulders of a width and length in accordance with Austroads Guide to Traffic Management Part 6 and Austroads Guide to Road Design Part 4A for a Rural Basic left and right turn treatment (BAL and BAR).

The works described above must be undertaken prior to commencement of use of Stage 1, at no cost to Council and will require approval under an Operational Works permit.

4.3 Revised Traffic Impact Assessment – Stage 6

- 4.3.1 A revised Traffic Impact Assessment (TIA) report must be submitted to Council prior to Stage 6 when all facilities constructed as part of Stage 1 to 5 is in operation. The TIA should analyse the impact that the development related traffic will have on Council's road network as a result of this stage and be based on actual traffic counts at the time.

Any external works determined to be required by Council following review of the revised assessment must be undertaken at no cost to Council and will require approval under an Operational Works permit.

4.4 Car Parking/Internal Driveways

- 4.4.1 The applicant/developer must ensure the development is provided with staged on-site car parking spaces generally in accordance with the approved plans, which are available solely for the parking of vehicles associated with the use of the premises.
- 4.4.2 All car parking spaces and internal driveways must be concrete, bitumen or asphalt sealed and appropriately drained prior to the commencement of the use and to the satisfaction of Council's delegated officer.
- 4.4.3 The car park must be designed in accordance with AS2890.1 Off-Street Car Parking including parking bay dimensions, aisle widths, speed control etc. The design is to be certified by an RPEQ that the car park provisions comply with Australian standards.
- 4.4.4 An internal traffic circulation design plan demonstrating swept paths must be submitted as part of the development application for Operational Works to demonstrate that adequate provision has been made for the manoeuvring of vehicles and buses.
- 4.4.5 All parking spaces and trafficable areas must be maintained in good order and safe repair for the life of the development, to the satisfaction of Council's delegated officer.

4.5 Stormwater Management

- 4.5.1 Prior to building or operational works commencing, the applicant/developer must submit a Stormwater Management Plan and Report prepared and certified by a suitably qualified design engineer (RPEQ) that meets or exceeds the standards of design and construction set out in the Queensland Urban Drainage Manual (QUDM) and the FNQROC Development Manual to the satisfaction of Council's delegated officer.

The Stormwater Management Plan must allow for the proposed staging of the development.

- 4.5.2 The Stormwater Management Plan must ensure a non-worsening effect on surrounding land as a consequence of the development, and must take all reasonable and practicable measures to ensure discharge occurs in compliance with the Queensland Urban Drainage Manual (QUDM) and the FNQROC Development Manual.
- 4.5.3 The applicant/developer must construct the stormwater drainage infrastructure for the development in accordance with the approved Stormwater Management Plan and Report.
- 4.5.4 All stormwater drainage must be collected from site and discharged to an approved legal point of discharge.

4.6 Landscaping and Fencing

4.6.1 Prior to the commencement of the use of the site, a landscape plan must be prepared and submitted to Council's delegated officer for consideration and approval.

4.6.2 The landscaping plan must incorporate the following:

- (i) A minimum 10 metre wide vegetated landscape buffer for the full length of the buffer zone shown on the approved plans.
- (ii) A minimum 10 metre wide vegetated landscape buffer for 115 metres along the common boundary with Lot 1 on RP708284, directly to the south of the sports field/running track.
- (iii) A 1.8 metre high colorbond (neutral colour) solid screen fence must be established along the site's common boundary with Lot 1 on RP708284 for the full length of the vegetated landscape buffers required under (i) and (ii).
- (iv) The planting of one (1) shade tree for every six (6) parking spaces.

4.6.3 Landscaping associated with 4.6.2 (i) and (ii) must include ground cover, shrubs and trees that will grow to form an effective buffer of no less than four (4) metres in height.

4.6.4 Plant species are to be generally selected from the Plant Schedule in Planning Scheme Policy 6 - Landscaping and preferred plant species.

4.6.5 The landscaping of the site must be carried out in accordance with the endorsed landscape plan/s, and prior to the commencement of the use, and mulched, irrigated and maintained to the satisfaction of Council's delegated officer.

4.6.6 All landscaping must be maintained for the life of the development.

4.7 Lighting

Where installed, external lighting must be designed and installed in accordance with *AS4282 – Control of the obtrusive effects of outdoor lighting* so as not to cause nuisance to residents or obstruct or distract pedestrian or vehicular traffic.

4.8 Non-Reticulated Water Supply

The development must be provided with a potable water supply that can satisfy the standards for drinking water set by the Australian Drinking Water Guidelines 2004 (National Health and Medical Research Council and the National Resource Management Ministerial Council). All non-potable sources of water must be sign posted "non-potable water supply".

4.9 On-Site Wastewater Management

All on site effluent disposal associated with the approved use must be in compliance with the latest version of On-Site Domestic Wastewater Management Standard (ASNZ1547) to the satisfaction of the Council's delegated officer.

Note: Any on-site wastewater treatment system with a total daily peak design capacity of at least 21 equivalent persons (EP) is an Environmentally Relevant Activity (ERA 63 - Sewerage Treatment) and an Environmental Authority is required.

4.10 Electricity Supply

The development must be connected to the electricity supply network.

4.11 Telecommunications Infrastructure

The development must be provided with a connection to the national broadband network or telecommunication services.

FNQROC Regional Development Manual Checklist

Section	Assessment
DP1 - Development Principles	Complies
AP1 - Application Procedures	Complies
D1 - Road Geometry	Conditioned to Comply
D2 - Site Regrading	Complies
D3 - Road Pavements	Conditioned to Comply
D4 - Stormwater Drainage	Complies
D5 - Stormwater Quality Management	Complies
D6 - Water Reticulation	N/A
D7 - Sewerage System	N/A
D8 - Utilities	Complies
D9 - Landscaping	N/A

REFERRALS

Nil

Internal/External Consultation

Technical Services

OFFICER'S RECOMMENDATION

1. That in relation to this operational works development application:

APPLICATION		PREMISES	
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DATE LODGED	9 July 2025	RPD:	Lot 71 on SP292140
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PROPOSED DEVELOPMENT	Operational Works (Internal/External Roadworks, Earthworks, Stormwater, Water Supply and On-site Carparking for Two Rivers Community School – Development Permit MCU/23/0012)		

and in accordance with the Planning Act 2016, as amended, the applicant be notified that the application for operational works:

Approved subject to the following assessment manager conditions:

(A) **APPROVED DEVELOPMENT:** Development Permit for Operational Works (Internal/External Roadworks, Earthworks, Stormwater, Water Supply and On-site Carparking for Two Rivers Community School – Development Permit MCU/23/0012)

(B) **APPROVED PLANS:**

Plan/Document Number	Plan/Document Title	Prepared by	Dated
External Works			
LU23112-1-CD-100	COVER SHEET, LOCALITY & DRAWING SCHEDULES	Lekker Urban	13/05/2025
LU23112-1-CD-101	CONSTRUCTION NOTES	Lekker Urban	13/05/2025
LU23112-1-CD-102	EROSION & SEDIMENT CONTROL NOTES & DETAILS	Lekker Urban	13/05/2025
LU23112-1-CD-200	EROSION & SEDIMENT CONTROL PLAN	Lekker Urban	13/05/2025
LU23112-1-CD-201	CLEARING & DEMOLITION PLAN	Lekker Urban	13/05/2025
LU23112-1-CD-202	CIVIL SITE WORKS LAYOUT PLAN	Lekker Urban	13/05/2025
LU23112-1-CD-203	SIGNAGE & LINEMAKRING LAYOUT PLAN	Lekker Urban	13/05/2025
LU23112-1-CD-300	ROAD LONGITUDINAL SECTION - CHEWKO ROAD	Lekker Urban	13/05/2025
LU23112-1-CD-301	ROAD LONGITUDINAL SECTION - NEW ACCESS ROAD	Lekker Urban	13/05/2025
LU23112-1-CD-400	TYPICAL SECTIONS & DETAILS	Lekker Urban	13/05/2025
LU23112-1-CD-401	CROSS SECTIONS - CHEWKO ROAD - SHEET 1 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-402	CROSS SECTIONS - CHEWKO ROAD - SHEET 2 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-403	CROSS SECTIONS - CHEWKO ROAD - SHEET 3 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-404	CROSS SECTIONS - CHEWKO ROAD - SHEET 4 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-405	CROSS SECTIONS - CHEWKO ROAD - SHEET 5 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-406	CROSS SECTIONS - CHEWKO ROAD - SHEET 6 OF 6	Lekker Urban	13/05/2025

LU23112-1-CD-407	CROSS SECTIONS - NEW ACCESS ROAD - SHEET 1 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-408	CROSS SECTIONS - NEW ACCESS ROAD - SHEET 2 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-409	CROSS SECTIONS - NEW ACCESS ROAD - SHEET 3 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-410	CROSS SECTIONS - NEW ACCESS ROAD - SHEET 4 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-411	CROSS SECTIONS - NEW ACCESS ROAD - SHEET 5 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-412	CROSS SECTIONS - NEW ACCESS ROAD - SHEET 6 OF 6	Lekker Urban	13/05/2025
LU23112-1-CD-500	INTERSECTION DETAIL PLAN & KERB RETURNS SECTIONS	Lekker Urban	13/05/2025
LU23112-1-CD-501	RAIL CROSSING DETAIL PLAN	Lekker Urban	13/05/2025
LU23112-1-CD-600	DRAINAGE LONGITUDINAL SECTIONS	Lekker Urban	13/05/2025
LU23112-1-CD-601	DRAINAGE PIT SCHEDULES	Lekker Urban	13/05/2025
LU23112-1-CD-700	TYPICAL CONSTRUCTION DETAILS	Lekker Urban	13/05/2025
LU23112-1-CD-800	VEHICLE TURN MOVEMENT LAYOUT PLAN - SHEET 1 OF 2	Lekker Urban	13/05/2025
LU23112-1-CD-801	VEHICLE TURN MOVEMENT LAYOUT PLAN - SHEET 2 OF 2	Lekker Urban	13/05/2025
Internal Works			
CD-100	COVER SHEET, LOCALITY & DRAWING SCHEDULES	Lekker Urban	29/04/2025
CD-101	CONSTRUCTION NOTES	Lekker Urban	29/04/2025
CD-102	CONCEPT EROSION & SEDIMENT CONTROL NOTES	Lekker Urban	29/04/2025
CD-200	OVERALL GENERAL ARRANGEMENT LAYOUT PLAN	Lekker Urban	29/04/2025
CD-201	CONCEPT EROSION & SEDIMENT CONTROL LAYOUT PLAN	Lekker Urban	29/04/2025
CD-202	CLEARING & DEMOLITION LAYOUT PLAN	Lekker Urban	29/04/2025
CD-203	BULK EARTHWORKS LAYOUT PLAN	Lekker Urban	29/04/2025
CD-204	CIVIL SITE WORKS LAYOUT PLAN	Lekker Urban	29/04/2025
CD-300	ROAD LONGITUDINAL SECTIONS	Lekker Urban	29/04/2025
CD-301	ROAD LONGITUDINAL SECTIONS	Lekker Urban	29/04/2025
CD-302	ROAD LONGITUDINAL SECTIONS	Lekker Urban	29/04/2025
CD-400	TYPICAL ROAD SECTIONS	Lekker Urban	29/04/2025
CD-401	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
CD-402	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
CD-403	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
CD-404	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
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CD-408	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
CD-409	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
CD-410	ROAD CROSS SECTIONS	Lekker Urban	29/04/2025
CD-500	DETAIL LAYOUT PLAN	Lekker Urban	29/04/2025
CD-501	DETAIL LAYOUT PLAN	Lekker Urban	29/04/2025
CD-502	DETAIL LAYOUT PLAN	Lekker Urban	29/04/2025
CD-503	DETAIL LAYOUT PLAN	Lekker Urban	29/04/2025

CD-600	STORMWATER CATCHMENT LAYOUT PLAN	Lekker Urban	29/04/2025
CD-601	DRAINAGE LONGITUDINAL SECTIONS	Lekker Urban	29/04/2025
CD-602	DRAINAGE LONGITUDINAL SECTIONS	Lekker Urban	29/04/2025
CD-603	DRAINAGE PIT SCHEDULES & SETOUT	Lekker Urban	29/04/2025
CD-604	DETAIL LAYOUT PLAN & SECTIONS	Lekker Urban	29/04/2025
CD-605	DETAIL LAYOUT PLAN & SECTIONS	Lekker Urban	29/04/2025
CD-700	TYPICAL CONSTRUCTION DETAILS	Lekker Urban	29/04/2025
CD-701	TYPICAL CONSTRUCTION DETAILS	Lekker Urban	29/04/2025

(C) ASSESSMENT MANAGER'S CONDITIONS (COUNCIL)

1. General

1.1 Development must be carried out substantially in accordance with the approved plans and the facts and circumstances of the use as submitted with the application, and subject to any alterations:

- found necessary by the Council's Delegated Officer at the time of examination of the engineering plans or during construction of the development because of particular engineering requirements;
- to ensure the works comply in all respects with the requirements and procedures of the FNQROC Development Manual, Queensland Urban Drainage Manual and good engineering practice; and
- to ensure compliance with the following conditions of approval.

1.2 All operational works must be designed and constructed in accordance with the design guidelines and procedures as set out in the FNQROC Development Manual, prior to works acceptance.

1.3 Plan Amendments

The following plan amendments must be made to the 'for construction' plans and submitted to Council for review prior to prestart meeting occurring:

- The notation on plan no. *LU23112-1-CD-202* must be amended to reference *LU23112-1-CD-203* and not *LU23112-1-CD-204*.
- *A notation must be added to plan no. LU23112-2-CD-203 stating that owners consent must be obtained from the owners of Lot 1 on RP708284 prior to any earthworks occurring that may impact on this allotment.*

1.4 Deep lift asphalt shall be provided over culvert 1.A-1.B in order to achieve adequate coverage. The 'for construction' plans must be amended to reflect this prior to prestart meeting occurring.

1.5 'For Construction' Engineering Drawings, inclusive of any amendments required by Conditions of this Permit, must be certified as approved by a suitably qualified RPEQ Engineer and a copy submitted to Council, prior to Commencement of Work.

- 1.6 Where any part of Council's existing infrastructure or land is damaged as a result of construction activities occurring on the land, including but not limited to; mobilisation of heavy construction equipment, stripping, grubbing and vegetation damage, notify Council immediately of the affected infrastructure or land and have it repaired, replaced or reinstated at no cost to Council, prior to Works Acceptance.

1.7 Runoff Generally

All reasonable and practicable measures must be taken to prevent pollution entering existing creeks, waterways or drainage lines, as a result of silt run-off, oil and grease spills from any machinery. Wastewater as a result of cleaning equipment must not be discharged directly or in-directly to any watercourses, stormwater systems or private properties (in accordance with the requirements of the Environmental Protection Act (1994), the FNQROC Development Manual and Best Practice Erosion & Sediment Control – IECA Australasia).

1.8 Earthworks Construction

All earthworks must be constructed in accordance with AS 3798: Guidelines on earthworks for commercial and residential developments. At the completion of works, RPEQ Certification of the works and test results are required to be provided to Council, prior to Works Acceptance.

1.9 Stormwater Drainage

Stormwater drainage as shown on the Approved Plan(s), must be constructed in accordance with the relevant design and specifications sections of the FNQROC Development Manual and the Queensland Urban Drainage Manual, prior to Works Acceptance.

All stormwater from the land must be directed to a lawful point of discharge as per the Approved Plan(s) such that it does not adversely affect surrounding properties or properties downstream from the development, in accordance with the Queensland Urban Drainage Manual.

- 1.10 Council's examination of the documents should not be taken to mean that the documents have been checked in detail and Council takes no responsibility for their accuracy. If during construction, inadequacies of the design are discovered, it is the responsibility of the Principal Consulting Engineer to resubmit amended plans to Council for approval and rectify works accordingly.

2. Pre-start Meeting

- 2.1 In addition to the requirements of Clause CP1.07 and CP1.08 of the FNQROC Development Manual; after documentation has been approved by Council, a pre-start meeting is to be held on site prior to the commencement of work. Part 1 of the **attached** pre-start meeting pro-forma is to be completed and returned prior to the meeting including clause 1.u 'Request for Meeting' together with the prescribed Construction Monitoring Fee as set out in Council's Schedule of Fees.

3. Inspections

- 3.1 Inspections are to be carried out as detailed in the FNQROC Manual unless advised otherwise at the pre-start meeting.

4. Construction Security Bond and Defects Liability Bond

- 4.1 In addition to Clauses CP1.06 and CP1.20 of the FNQROC Development Manual; the Construction Security Bond and Defects Liability Bond shall each be a minimum of \$1000 and Bank Guarantees shall have no termination date.
- 4.2 During the Defects Liability period, it is the responsibility of the developer to rectify any works found to be defective due to design faults and or found to exhibit faults attributed to the performance of the construction activities in terms of quality and conformance with design and specifications. The bond will be returned on satisfactory correction of any defective work and after expiration of the maintenance period. Failure to comply with a Council issued instruction to correct defective work may result in the call up of the bond to have the work completed.

5. Hours of Work

- 5.1 Work involving the operation of construction plant and equipment of any description, shall only be carried out on site during the following times:
- 7.00am to 6.00pm, Monday to Friday;
 - 7.00am to 1.00pm Saturdays;
 - No work is permitted on Sundays or Public Holidays.
- 5.2 No variation to the above working hours is allowed unless otherwise agreed in writing by Council.

6. Transportation of Soil

- 6.1 All soil transported to or from the site must be covered to prevent dust or spillage during transport. If soil is tracked or spilt onto the road pavement from works on the subject land, it must be removed no later than at the end of each working day. Sediment must not enter Council's stormwater drainage network.

(D) RELEVANT PERIOD

When approval lapses if development not started (s.85)

- Two (2) years (starting the day the approval takes effect).

(E) OTHER NECESSARY DEVELOPMENT PERMITS AND/OR COMPLIANCE PERMITS

- Nil

DECISION BY DELEGATE

DECISION

Having considered the Officers report detailed above, I approve, as delegate of Council, the application subject to the conditions listed in the report.

Dated the *19TH* day of *AUGUST* 2025



BRIAN MILLARD
COORDINATOR PLANNING & BUILDING

MAREEBA SHIRE
AS DELEGATE OF THE COUNCIL

ATTACHMENT 1

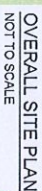
B. vill
21/8/2025

REVISION

A

PROJECT DETAILS:

LOCALITY PLAN



DRAWING NOT TO SCALE

Lekker Urban.

CARLOS RODRIGO MACHADO, STREET STREET CHOCOLATE, C.A.S.
CONTACT: CROD@STREETCHOCOLATE.COM
WWW.STREETCHOCOLATE.COM

Designed: A.P.B.
Authorized: J.L.A.

Checked: J.L.A.
Date: 13/05/2025

**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - EXTERNAL CIVIL WORKS
COVER SHEET, LOCALITY & DRAWING SCHEDULES**
CHEWKO ROAD & 26th MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

FOR APPROVAL

L23112-1-CD-100

DATE: 08/04/2023

FOR

FOR APPROVAL

LU23112-1-CD-100

4.1. ELECTRICAL AND COMMUNICATIONS CONDUIT LOCATIONS ARE SHOWN FOR INFORMATION ONLY. FOR EXACT LOCATIONS REFER TO ELECTRICAL CONSULTANT'S LAYOUT PLANS. FOR WATER CONDUIT LOCATION

- [illegible]

5.2.6. FILL SHALL BE PLACED AND COMPACTED MATERIAL 9:41

- 5.1.1. STRIPPING STOCKPILE AND TOSSEL
- CONSIDERABLE AMOUNTS OF THE STOCKPILE SHALL BE MOVED TO AN ADJACENT SITE TO BE STOCKPILED OR DISPOSED BY THE SUPERINTENDENT.
- 5.1.2. ALL TIERED AND PULVIC CONE SPACES SHALL BE CLOUSED BY VEGETATION MUST BE CONSIDERED FOR THE FULL DEPTH OF THE MAT. WHEN TIERED AND CLOUSED IN ACCORDANCE WITH THE FRODO DEVELOPMENT MANUAL THAT THE WORK ACCEPTED AND MAINTAINED BY THE CONTRACTOR UNTIL PAUL WORK COMPLETION.
- 5.1.3. ALL TIERING ARE TO BE PLACED ON THE DOMINANT SIDE OF ALL STOCKPILE SITES AND AN ADJACENT CROPPED PASTURE ARE TO BE PLACED ON THE DOMINANT SIDE OF ALL STOCKPILE SITES.
- 5.2. PROTECTION DURING WORKS
5.2.1. ALL EXPOSED SURFACES AROUND FROM SHOWN ARE TO BE GRASS RESEED AS A EMBLEMAT AND PROUD CONTROL MEASURE.
- 5.2.2. ALL OPEN DRAIN ARE TO BE TUPED AS SOON AS PRACTICAL AFTER THE OPEN DRAIN IS COMPLETED.
- 5.2.3. ALL EXPOSED SURFACES ARE TO BE RESEED AS SOON AS PRACTICAL AFTER THE OPEN DRAIN IS COMPLETED.
- 5.2.4. RESULTING FROM SUPERVISOR WORK, SUPERVISOR DURING DRAINAGE AND ON OTHER DRAINAGE CONSTRUCTION, THE CONTRACTOR DURING CONTRIBUTION TO MINIMIZE THE EFFECTS DRAINAGE TO BE MAINTAINED BY THE CONTRACTOR DURING CONTRIBUTION TO MINIMIZE THE EFFECTS

AREAS RESULT FROM THE
5.2.4. ALL AREAS ARE TO BE FRI

- 5.2.3. BATTERY RATES TO BE IN A MAXIMUM SPECIFIED RANGE.
 - 5.2.4. RATES OF BURNING TO BE TO THE CONTRAST OF BULKY TYPE, DRYWEAT AND BAKING AS SHOWN.
 - 5.2.5. THE RATES OF BURNING TO BE TO THE CONTRAST OF BULKY TYPE, DRYWEAT AND BAKING AS SHOWN.
 - 5.3. GRASSING
 - 5.3.1. TUFFE CEMENT TO BE PROVIDED TO BACK OF KEYS ON EACH SIDE OF FOOTPATHING
- ## 6. ROADWORKS
- 6.1. GENERAL:
 - 6.1.1. WARNING AND DIRECTIONAL TRICITE GROUND SURFACE INDICATORS (TEES) SHALL CONFORM WITH ASINCS 142.3.
 - 6.2. KEYS, KEYS AND CHANNEL, NOTES AND SET-OUT
 - 6.2.1. ALL KEYS SHALL BE TO THE PRACTICE OF THE TRADE.
 - 6.2.2. KEYS SHALL BE TO THE PRACTICE OF THE TRADE.
 - 6.2.3. SADDLE, CHANNEL TO BE PROVIDED UNDER ALL KEYS AND CHANNEL, KEYS ONLY.
 - 6.2.4. WHERE DIFFERENT TYPES TYPES, TRANSITION TO BE TAKEN OUT OVER 1.0m MIN.
 - 6.2.5. FOR DIFFERENTIAL TYPES TYPES, TRANSITION TO BE TAKEN OUT OVER 1.0m MIN.
 - 6.2.6. FOR DIFFERENTIAL TYPES TYPES, TRANSITION TO BE TAKEN OUT OVER 1.0m MIN.
 - 6.2.7. FOR DIFFERENTIAL TYPES TYPES, TRANSITION TO BE TAKEN OUT OVER 1.0m MIN.
 - 6.2.8. KEYS TO BE CHANNELS TO BE PROVIDED TO THE PRACTICE OF THE TRADE.
 - 6.2.9. THE CONTRACTOR SHALL INCLUDE WITH ALL KEYS AND CHANNEL, GRASSING SHALL NOT FALL BELOW 0.5% AT ALL

6.2.9. WHERE NEW KERB AND C LEVELS WITH THE SUPER

- 6.2.10. SUBSID, DRAINAGE SHALL BE CONTINUOUS WITH A DOWNING KERB AND CHANNEL, WHERE CONCRETE INFILL IS REQUIRED, REFER A PAVING STANDARD DRAWING S1005 (FOR KERB) / KERB AND CHANNEL SECTION FOR MORE DETAIL.
- PAVEMENT**
- 6.2.11. THE CONCRECTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO THE FOLLOWING DEPTHS:
- IN ALL AREAS, EXPOSED REINFORCING SHALL BE PROTECTED BY A MINIMUM OF 100MM OF CONCRETE.
- 6.2.12. FOLLOWING THE COMPLETION OF EXCAVATION, THE CONCRECTOR SHALL NOTIFY THE SUPERINTENDENT TWO

TERMS OF SHEAR STRENGTH, STIFFNESS, PERMEABILITY, AND D
TECHNICAL SPECIFICATION.

- 7.1. SHALL CONTAIN THE PAVEMENT THICKNESS TO BE CONSTRUCTED FOLLOWING JOINT INSPECTION AND
7.2. APPROVAL FROM LOCAL AUTHORITY INSPECTOR.
7.3. REFLECT PAVEMENT DRAINING FOR TYPE, TENS MADE UP TO BE DETERMINED BY THE SUPERINTENDENT
7.4. REAR PAVEMENT DRAINING AND MATERIAL TYPE SHALL BE DETERMINED BY THE SUPERINTENDENT AFTER
7.5. PAVEMENT MATERIALS SHALL BE FOR ROAD SPECIFICATION IN ROAD PAVEMENTS;
7.6. STORMWATER NOTES

AND MAINTAIN ACCESS AS REQUIRED DURING CONSTRUCTION AND COMPLETION OF WORKS.

- [illegible]

TOPS OF MANHOLES TO FINISH 50mm ABOVE FINISHED GROUND ONLY. LIDS SHALL BE CAST AFTER COMPLETION OF

- [illegible]

ANDROC - STANDARD DRAWING - S1105 - RURAL ALLOTMENT
GOVERNMENT DEPARTMENT OF MAIN ROADS - STANDARD

- [illegible]

- 15.13.10.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.

1. <u>Explain Urban All Rights Reserved</u> Urban All Rights Reserved is a concept that allows cities to retain the authority to regulate land use and zoning, even in the face of state or federal preemption. This concept is based on the idea that cities have a responsibility to protect the health, safety, and welfare of their residents, and that this responsibility is not automatically transferred to higher levels of government.	2. <u>Explain the importance of the Urban All Rights Reserved concept</u> The Urban All Rights Reserved concept is important because it allows cities to maintain control over their land use and zoning, which is essential for protecting the health, safety, and welfare of their residents. It also allows cities to respond to changing needs and circumstances, such as the need for more affordable housing or the need to protect the environment.
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SCALE	TWO RIVERS COMMUNITY SCHOOL STAGE 1 & 2 - EXTERNAL CIVIL WORKS CONSTRUCTION NOTES	CHEWMO ROAD & 287 MCIVER ROAD, MAREEBA QLD ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL FOR APPROVAL
		DOROTHY SULLIVAN LUL31124-CD-101 A

B. n 
21/8/2025

EROSION AND SEDIMENT CONTROL PLANS

PROGRESSIVE EROSION AND SEDIMENT CONTROL PLANS (BRIED) PLANS SHALL BE DEVELOPED AND IMPLENTED AS THE SITE SUPERVISION BASED ON THE PLAN AND FOLLOWING PRINCIPLES AND SITE CONTROL MEASURES.

1. MINIMISE EXTENT AND DURATION OF DISTURBANCE

- 1.1. CONSTRUCTION WORKS TO BE MANAGED SUCH THAT AREAS OUTSIDE SCOPE OF WORKS REMAIN UNDISTURBED WHERE POSSIBLE.
- 1.2. MINIMISE EXTENT OF DISTURBANCE WITHIN CONSTRUCTION SITE AT ANY ONE TIME BY STAGING THE WORKS TO BE COMPLETED IN SEQUENTIAL PHASES.
- 1.3. MINIMISE DISTURBANCE OF VEGETATION ALONG THE ROAD WAYSIDE BY MAINTAINING GRASSY BUFFER WHERE POSSIBLE.
- 1.4. CONSTRUCTION ACTIVITIES ADJACENT TO WATERCOURSES (E.G. MAINTAIN GRASSY BUFFER WHERE POSSIBLE).

2. CONTROL STORMWATER FLOWS ONTO, THROUGH AND FROM THE SITE

- 2.1. SEPARATE CLEAN RUNOFF WATER FROM DIRTY (E.G. TURBID) CONSTRUCTION AREA RUNOFF (MAINTAIN CLEAN WATER PASSAGE THROUGH CLAYNET CROSSING THROUGHOUT CONSTRUCTION WORKS).
- 2.2. CONSTRUCT PERMANENT DRAINAGE STRUCTURES EARLY IN THE PROJECT INCLUDING:
- 2.2.1. CLAYNETS, WEAPWALLS AND ASSOCIATED INLET AND OUTLET PROTECTION (E.G. DISPERTERS).
- 2.2.2. MAXIMIZE THE SHEET FLOW OF TURBID CONSTRUCTION RUNOFF AND EXISTING SPOON DRAIN ON SLOPE SIDE OF ROAD BY MAINTAINING INFALL DRAINAGE WHERE POSSIBLE AND NEW CUTTERS AS CONSTRUCTION PROGRESSES.

3. USE EROSION CONTROL MEASURES TO PREVENT ON-SITE DAMAGE

- 3.1. THE INSTALLATION OF ALL EROSION AND SEDIMENT CONTROLS TO OCCUR IMMEDIATELY POST CLEARING AND STRIPPEING.
- 3.2. THE PROTECTION OF ALL EROSION AND SEDIMENT CONTROLS TO OCCUR IMMEDIATELY POST CLEARING AND STRIPPEING.
- 3.3. CONSTRUCT A RANGE OF EROSION CONTROLS WITHIN THE VARIOUS ROAD SUB-CATCHMENTS TO COMPLEMENT AND ENHANCE THE EFFECTIVENESS AND DURATION OF SEDIMENT CONTROLS IN THE EROSION RISK.

4. USE SEDIMENT CONTROL MEASURES TO PREVENT OFF-SITE DAMAGE

- 4.1. THE INSTALLATION OF ALL EROSION AND SEDIMENT CONTROLS TO OCCUR IMMEDIATELY POST CLEARING AND STRIPPEING.
- 4.2. CONSTRUCT CONTROL MEASURES AS CLOSE TO THE POTENTIAL SOURCE OF SEDIMENT AS POSSIBLE.
- 4.3. CONTROL THE DEPOSITION OF MUD AND SOIL MATERIAL ONTO LOCAL ROADS.

5. STABILISE DISTURBED AREAS QUICKLY

- 5.1. ALL BATTER STABILISATION AND REVEGETATION WORKS ADJACENT TO NEW CONSTRUCTION SHALL BE CARRIED OUT AS SOON AS POSSIBLE AFTER COMPLETION OF CONSTRUCTION WORKS.
- 5.2. ALL DISTURBED VERTICES AND FILL BATTERS TO BE STABILISED WITH APPROPRIATE SPECIES (E.G. REVEGETATION) AS SOON AS POSSIBLE AFTER COMPLETION OF CONSTRUCTION WORKS.
- 5.3. THE USE OF IMPORTED QUALITY TOPSOIL TO A 44MM TO 0.44MM TO BE OF A SANDY LOAM, FREE FROM NAT. GRASS AND WEEDS.
- 5.4. ENSURE THE SUCCESS OF THE LATER REVEGETATION PROGRAM BY UTILISING A GOOD TOPSOIL MANAGEMENT PROGRAM.
- 5.5. CONTROL DUST THROUGH PROGRESSIVE REVEGETATION TECHNIQUES, WATER TANKERS ETC.

6. INSPECT AND MAINTAIN CONTROL MEASURES

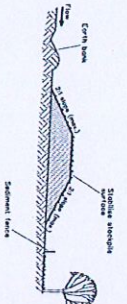
- 6.1. ENSURE THE PROGRESSIVE AND CONTINUAL INSPECTION AND MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROLS (E.G. SEDIMENT FENCES, DIVERSION DRAINS, SEDIMENT TRAPS).
- 6.2. INITIATE A PROGRAM TO ENSURE REGULAR MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, AND REPAIRS AS NECESSARY TO MAINTAIN FUNCTIONALITY.
- 6.3. ARRANGE REGULAR INSPECTIONS BY AN ENVIRONMENTAL SCIENTIST TO REVIEW AND UPDATE CONTROL MEASURES, ENSURING THEY REMAIN EFFECTIVE AND ADAPTED TO CHANGING CONDITIONS.
- 6.4. ALL EROSION AND SEDIMENT CONTROLS TO BE MAINTAINED IN PLACE UNTIL ALL WORKS ARE COMPLETED AND DISTURBED AREAS HAVE STABILISED.

EXTRACT FROM LALCOON (2004), MANAGING URBAN STORMWATER, SOIL, AND CONSTRUCTION, VOLUME 20 MAIN ROADS CONSTRUCTION 2008

THIS SEDIMENT AND EROSION CONTROL PLAN CONTAINS COUNCIL'S MINIMUM REQUIREMENTS FOR ENVIRONMENTAL PROTECTION. HOWEVER, IT IS STILL THE PRINCIPAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WORKS AND ACTIVITIES ARE CONDUCTED IN A MANNER THAT COMPLIES WITH ALL RELEVANT ENVIRONMENTAL LEGISLATION, INCLUDING ANY DEVELOPMENT APPROVAL REQUIREMENTS.

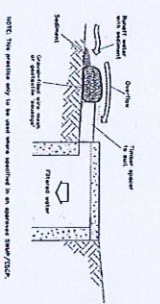
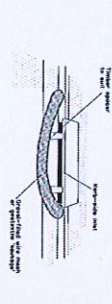
7. EROSION AND SEDIMENT CONTROL COMMENTARY

- 7.1. THE PROPOSED CONSTRUCTION WORKS WILL BE LIMITED TO THE 10% ROADWAY FOR PREPARATION OF EROSION AND SEDIMENT CONTROL, EROSION MEASURES.
- 7.2. EROSION AND SEDIMENT CONTROL, EROSION MEASURES, AND REPAIRS AS NECESSARY TO MAINTAIN FUNCTIONALITY.
- 7.3. ARRANGE REGULAR INSPECTIONS BY AN ENVIRONMENTAL SCIENTIST TO REVIEW AND UPDATE CONTROL MEASURES, ENSURING THEY REMAIN EFFECTIVE AND ADAPTED TO CHANGING CONDITIONS.
- 7.4. STORMWATER, IF ANY, WILL BE MANAGED AS PER SD-4.
- 7.5. INSTALL SANDBAGS, COR LOGS OR SEDIMENT FENCES AS REQUIRED.
- 7.6. PROGRESSIVE, METAL AND RUBBER CONTROLS AS WORK PROGRESSES ALONG THE ALLEYSIDE.



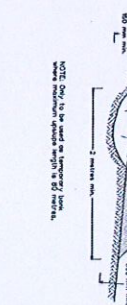
Construction Notes

1. Build up existing bank to prevent erosion.
2. Install erosion control measures (e.g. sediment fences, sandbags) to prevent erosion.
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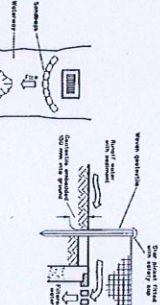
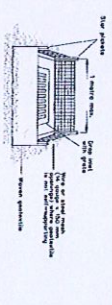
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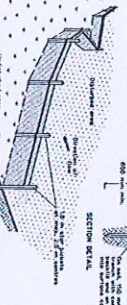
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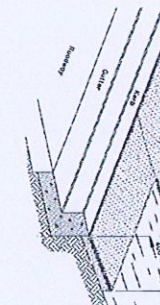
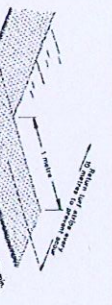
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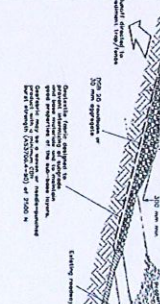
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Revision	A	100% DESIGN ISSUE - FOR APPROVAL (COM)	J.L.A.	13/05/2025	Approved	SD
Author	J.L.A.	J.L.A.	J.L.A.	J.L.A.	J.L.A.	J.L.A.
Check	J.L.A.	J.L.A.	J.L.A.	J.L.A.	J.L.A.	J.L.A.
Date	13/05/2025	13/05/2025	13/05/2025	13/05/2025	13/05/2025	13/05/2025
Project	A.P.B	A.P.B	A.P.B	A.P.B	A.P.B	A.P.B
Drawing	J.L.A.	J.L.A.	J.L.A.	J.L.A.	J.L.A.	J.L.A.
Title	DRAWING NOT TO SCALE	DRAWING NOT TO SCALE	DRAWING NOT TO SCALE	DRAWING NOT TO SCALE	DRAWING NOT TO SCALE	DRAWING NOT TO SCALE
Project	TWO RIVERS COMMUNITY SCHOOL	TWO RIVERS COMMUNITY SCHOOL	TWO RIVERS COMMUNITY SCHOOL	TWO RIVERS COMMUNITY SCHOOL	TWO RIVERS COMMUNITY SCHOOL	TWO RIVERS COMMUNITY SCHOOL
Stage	STAGE 1 & 2 - EXTERNAL CIVIL WORKS	STAGE 1 & 2 - EXTERNAL CIVIL WORKS	STAGE 1 & 2 - EXTERNAL CIVIL WORKS	STAGE 1 & 2 - EXTERNAL CIVIL WORKS	STAGE 1 & 2 - EXTERNAL CIVIL WORKS	STAGE 1 & 2 - EXTERNAL CIVIL WORKS
Sheet	SHEET 1 OF 2	SHEET 1 OF 2	SHEET 1 OF 2	SHEET 1 OF 2	SHEET 1 OF 2	SHEET 1 OF 2
Location	CHEROKEE ROAD & 287 KENNEDY ROAD, MAREEBA QLD	CHEROKEE ROAD & 287 KENNEDY ROAD, MAREEBA QLD	CHEROKEE ROAD & 287 KENNEDY ROAD, MAREEBA QLD	CHEROKEE ROAD & 287 KENNEDY ROAD, MAREEBA QLD	CHEROKEE ROAD & 287 KENNEDY ROAD, MAREEBA QLD	CHEROKEE ROAD & 287 KENNEDY ROAD, MAREEBA QLD
Project	ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL	ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL	ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL	ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL	ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL	ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL
Project	GREENHILLS	GREENHILLS	GREENHILLS	GREENHILLS	GREENHILLS	GREENHILLS
Project	FOR APPROVAL	FOR APPROVAL	FOR APPROVAL	FOR APPROVAL	FOR APPROVAL	FOR APPROVAL
Project	LU23112-1-CD-102 A	LU23112-1-CD-102 A	LU23112-1-CD-102 A	LU23112-1-CD-102 A	LU23112-1-CD-102 A	LU23112-1-CD-102 A

3. 21/8/2025



CHEWKO ROAD
Walkam
2
SP173566

NOTE: THE LOCATION OF EXISTING UTILITIES (ELECTRICITY, GAS, WATER, SEWER, ETC.) IS SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORKS.

12
SP158613

1
RPT34352

2
RPT34352

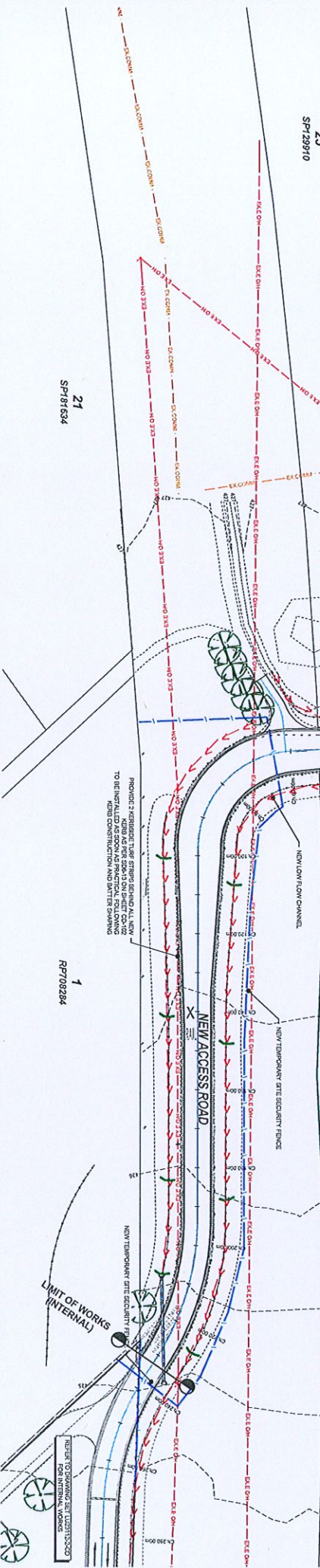
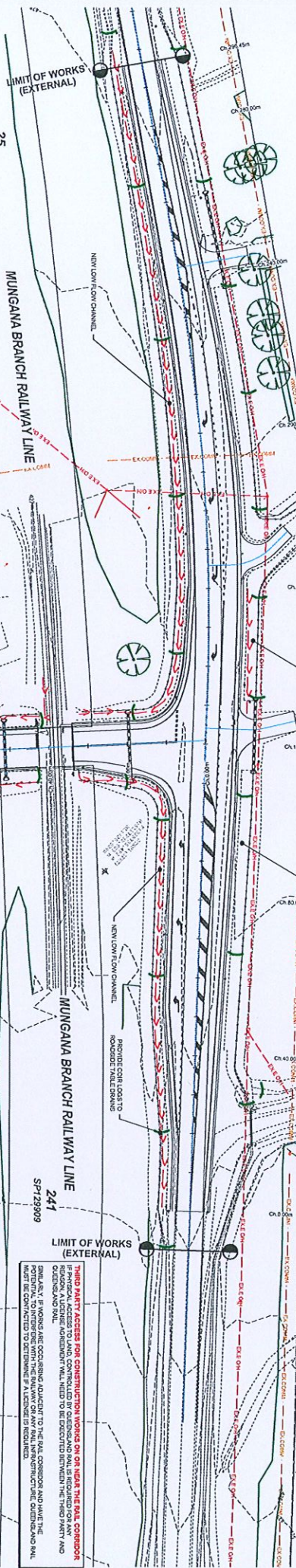
3
RPT34352

CHEWKO ROAD
Mareeba

NOTE:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING VEGETATION AND LANDSCAPE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ROADS AND PATHS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FENCES AND BOUNDARIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SERVICES AND INFRASTRUCTURE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING ENVIRONMENTAL FEATURES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING CULTURAL HERITAGE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING HISTORICAL SITES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING NATURAL RESOURCES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SOCIAL AND COMMUNITY ASSETS.



3.7.12/8/2025



SCALE 1:500 @ A1
0 10 20 30 40 50 m

Designed: A.D.B.
Checked: J.L.A.
Date: 13/05/2025

**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - EXTERNAL CIVIL WORKS
EROSION & SEDIMENT CONTROL PLAN**
CHEWKO ROAD & 287 MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL
FOR APPROVAL LU23112-1-CD-200 A

Revision	Description	Author	Check	Date
A	100% DESIGN ISSUE - FOR APPROVAL (CPW)	J.L.A.	J.L.A.	13/05/2025

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Lekker Urban.
ENGINEERING & ARCHITECTURE
10/100 BAYVIEW DRIVE
MAREEBA QLD 4280
PH: 07 5599 1114



Wakamini
2
SP173586
CHEWKO ROAD

WARNING: THE LOCATION OF EXISTING TELECOMMUNICATIONS & ELECTRICAL SERVICES ARE SHOWN INDICATIVELY ONLY. FROM SURVEY & BEFORE YOU ENTER THE SITE, YOU MUST OBTAIN THE LOCATION OF ALL SERVICES AND INTERPOLATED INFORMATION SUPPLIED. BEFORE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORKS.

SP1729910

25

MUNGANA BRANCH RAILWAY LINE

- SIGNAGE AND LINE MARKING NOTES**
1. CHEWKO ROAD DESIGN SPEED: 110km/h (100km/h POSTED - 100km/h)
 2. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742
 3. PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742
 4. PROVIDES ONLY REQUIREMENTS AND RECOMMENDATIONS SPECIFIC TO CHEWKO ROAD
 5. THE QUEENSLAND MOTOR VEHICLE PRECEDENCE OVER THE AUSTRALIAN STANDARD, EXCEPT WHERE THE AUSTRALIAN STANDARD IS ACCEPTED
 6. THE EXISTING PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD
 7. THE EXISTING PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD
 8. THE EXISTING PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD
 9. THE EXISTING PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD
 10. ROAD EDGE GUIDES SHALL BE PROVIDED AS ALL LOCATIONS WHERE CONCRETE KERBS & DRAWING STOPS STREET NAME SIGNS
 11. ROAD EDGE GUIDES SHALL BE PROVIDED AS ALL LOCATIONS WHERE CONCRETE KERBS & DRAWING STOPS STREET NAME SIGNS
 12. ROAD EDGE GUIDES SHALL BE PROVIDED AS ALL LOCATIONS WHERE CONCRETE KERBS & DRAWING STOPS STREET NAME SIGNS
 13. ROAD EDGE GUIDES SHALL BE PROVIDED AS ALL LOCATIONS WHERE CONCRETE KERBS & DRAWING STOPS STREET NAME SIGNS
 14. TWO COATS OF PAINT AND GLASS BEADS SHALL BE APPLIED ON LONGITUDINAL LINES TO NEW
 15. REFLECTIVE GLASS BEADS SHALL BE TYPE B, C, D GLASS BEADS AS DESCRIBED IN AS 2003.

SP158013

RP734352

RP734352

Mareeba
CHEWKO ROAD

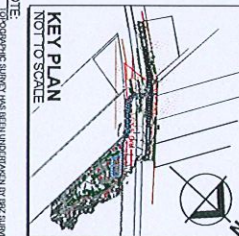
SP1729909

241

LIMIT OF WORKS (EXTERNAL)

THIRD PARTY ACCESS FOR CONSTRUCTION WORKS ON OR NEAR THE RAIL CORRIDOR
QUEENSLAND RAIL
SHALL, IF WORKS ARE OCCURRING ADJACENT TO THE RAIL CORRIDOR AND HAVE THE POTENTIAL TO AFFECT THE RAIL CORRIDOR, BE REQUIRED TO OBTAIN A THIRD PARTY ACCESS AGREEMENT FROM QUEENSLAND RAIL. THE AGREEMENT SHALL BE IN ACCORDANCE WITH THE RAIL CORRIDOR ACT 2009 AND THE RAIL CORRIDOR REGULATIONS 2010.

- LINE MARKING LEGEND:**
- | LINE MARKING | SYMBOL | WIDTH |
|-------------------------|--------|-------|
| EDGE LINE | --- | 100mm |
| CONTINUITY LINE | --- | 100mm |
| OUTLINE MARKING | --- | 100mm |
| DOUBLE ONE-WAY BARRIERS | --- | 100mm |
| DOUBLE TWO-WAY BARRIERS | --- | 100mm |
| DOUBLE ONE-WAY BARRIERS | --- | 100mm |
| DOUBLE TWO-WAY BARRIERS | --- | 100mm |
| ONE-WAY LINE | --- | 100mm |
| STOP LINE | --- | 100mm |



- NOTE:**
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 2. THE DRAWING SUBJECT HAS BEEN UNDERTAKEN BY THE DRAWING
 3. THE DRAWING SUBJECT HAS BEEN UNDERTAKEN BY THE DRAWING
 4. THE DRAWING SUBJECT HAS BEEN UNDERTAKEN BY THE DRAWING

21/8/2025

Lekker
Urban.

SCALE: 1:500 @ A1
0 10 20 30 40 50 m

REVISION	DATE	BY	APPROVED	DATE
A	13/05/2025	JLLA		
B				
C				
D				
E				
F				
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DATE: 13/05/2025
BY: JLLA
APPROVED: JLLA

DATE: 13/05/2025
BY: JLLA
APPROVED: JLLA

DATE: 13/05/2025
BY: JLLA
APPROVED: JLLA

Revision	1	100% DESIGN ISSUE - FOR APPROVAL (CPM)	Approved	J.L.A	13/05/2025
100% DESIGN ISSUE - FOR APPROVAL (CPM) Approved Date					
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DATE: 13/05/2025 PROJECT: TWO RIVERS COMMUNITY SCHOOL DRAWING: LU23112-1-CD-300 A					
FOR APPROVAL					

LONGITUDINAL SECTION - CHEWKO ROAD (CENTRELINE) - Ch 0m to Ch 296.45m

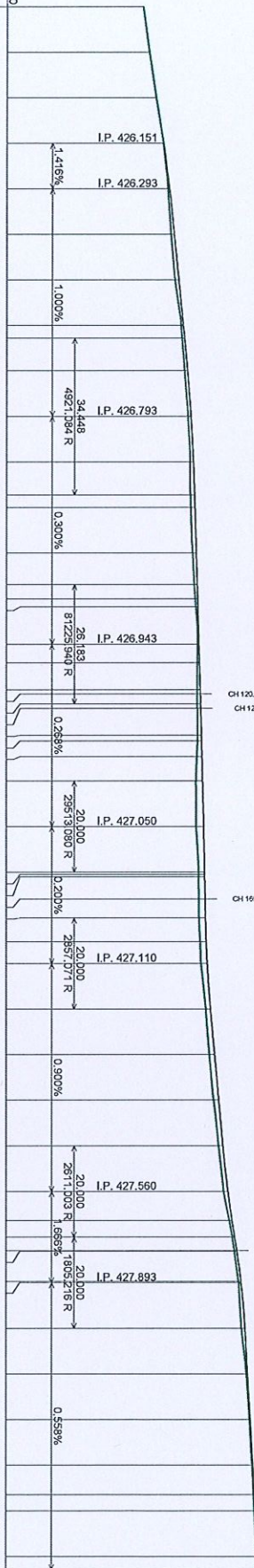
SCALE H: 1:500 V: 1:50

HORIZONTAL GEOMETRY AT ROAD CENTRELINE	HEIGHT DIFFERENCE (m)	DESIGN LEVELS AT ROAD CENTRELINE	EXISTING LEVELS AT ROAD CENTRELINE	CONTROL LINE CHAINAGE AT ROAD CENTRELINE
				-30.000
				-20.000
				-10.000
				0.000
				10.000
				20.000
				30.000
				40.000
				42.776
				50.000
				60.000
				70.000
				77.224
				80.000
				90.000
				96.908
				100.000
				101.752
				110.000
				114.065
				120.000
				120.939
				123.092
				124.082
				130.000
				131.213
				134.668
				140.000
				150.000
				160.000
				160.456
				160.960
				165.824
				170.000
				175.201
				180.000
				190.000
				200.000
				210.000
				220.000
				230.000
				236.378
				240.000
				242.986
				243.127
				249.733
				250.000
				260.000
				270.000
				280.000
				290.000
				296.451
				300.000
				310.000
				312.833

R.L. 419.700

B=23.97'16"

B=21'50'14"



CH 120.939 RL 426.972 INTERSECTION WITH CL INTERVAL ACCESS ROAD
CH 124.082 RL 426.961 INTERSECTION WITH CL DRIVEWAY LOT 1

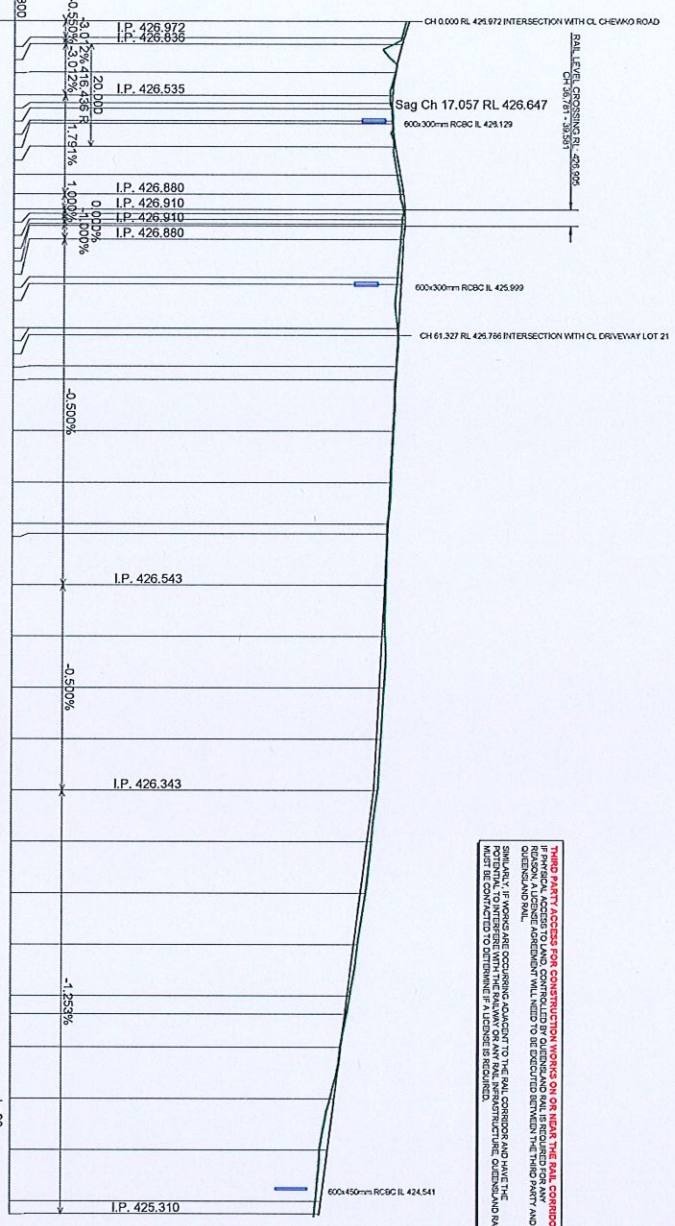
CH 165.824 RL 427.062 INTERSECTION WITH CL DRIVEWAY LOT 12

CH 242.986 RL 427.774 INTERSECTION WITH CL DRIVEWAY LOT 2

B. n. [Signature]
21/8/2025

NOTE:
 1. TOPGRAPHIC SURVEY HAS BEEN UNDERTAKEN BY BUREAU OF
 CH 2011 HORIZONTAL ROAD AT THE SUBJECT SITE. REFER TO 982
 INFORMATIONAL LAYOUTS URBAN TOWN NO RESPONSIBILITY FOR THE
 INFORMATION PROVIDED.
 2. LEXKER URBAN HAS NO RESPONSIBILITY FOR THE ACCURACY OF
 COORDINATES OF LOCATION AND DESIGN OF ALL EXISTING SERVICES
 ALL PROPOSED WORKS ARE SUBJECT TO LOCAL AUTHORITY AND
 METRIC WITH AUTHORITY APPROVAL FROM AUTHORITY.
 3. REQUIREMENTS FOR EXISTING SERVICES COMPLETED ON INFORMATION
 THE CONTRACTOR SHALL CONFIRM THE RAIL LINE CROSSING
 FINISHED SURFACE LEVEL PRIOR TO UNDERTAKING ANY WORKS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RAIL CORRIDOR
 5. THE RAIL CORRIDOR IS REQUIRED PRIOR TO THE COMMENCEMENT OF
 WORKS.

B. n. Q
 21/8/2025

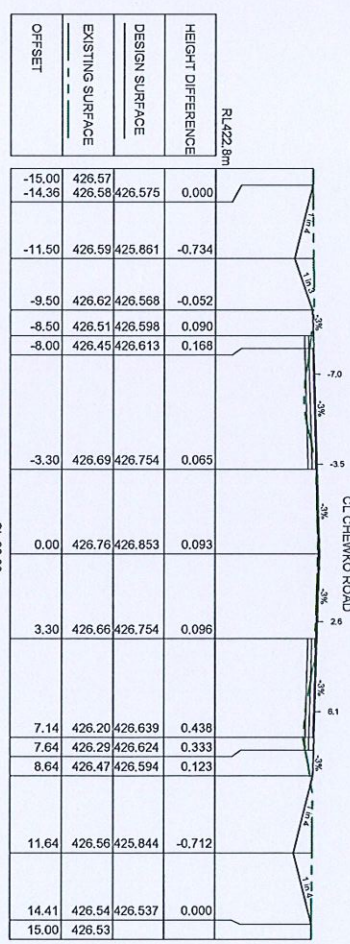
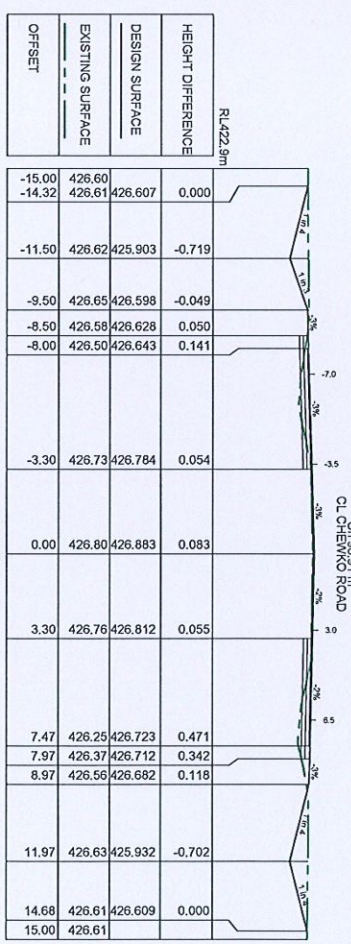
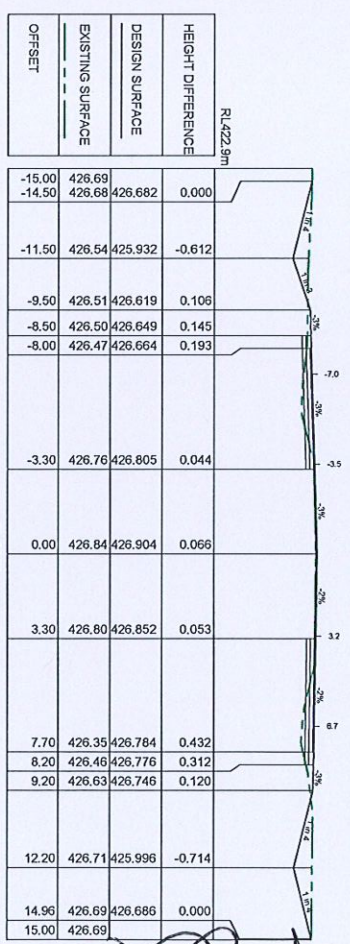
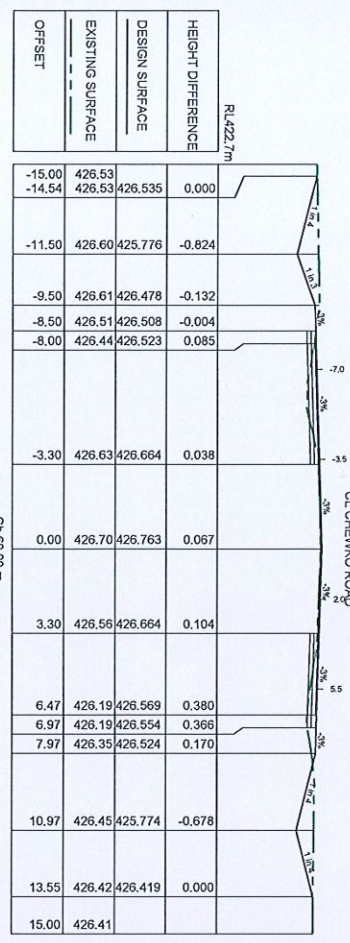
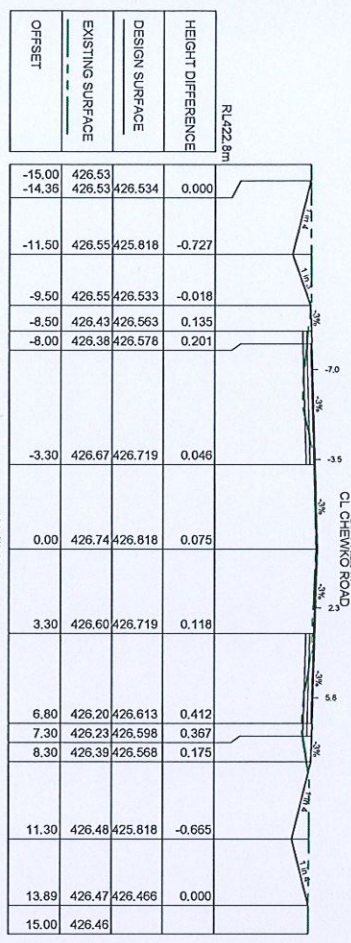
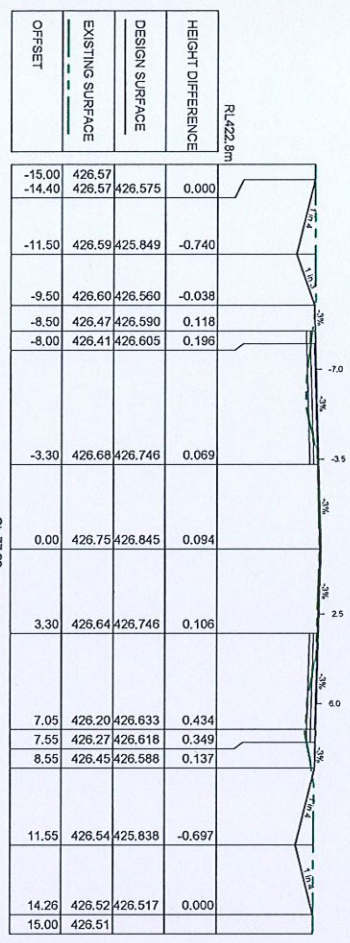


HORIZONTAL GEOMETRY AT ROAD CENTRELINE				
STATION	EXISTING ELEVATION (m)	DESIGN ELEVATION (m)	HEIGHT DIFFERENCE (m)	REMARKS
0.000	426.91	426.972	+0.06	
3.310	426.82	426.872	+0.05	
4.513	426.66	426.836	+0.18	
10.000	426.70	426.707	+0.01	
14.514	426.60	426.655	+0.06	
15.983	426.60	426.649	+0.05	
17.057	426.64	426.647	+0.01	
19.418	426.66	426.654	-0.01	
20.000	426.66	426.658	+0.00	
24.514	426.67	426.714	+0.04	
30.000	426.75	426.812	+0.06	
33.781	426.81	426.880	+0.07	
39.781	426.87	426.910	+0.04	
37.602	426.87	426.910	+0.04	
38.739	426.85	426.910	+0.06	
39.581	426.85	426.910	+0.06	
40.000	426.85	426.906	+0.06	
42.581	426.82	426.880	+0.06	
50.000	426.76	426.843	+0.08	
51.356	426.75	426.836	+0.09	
59.937	426.76	426.793	+0.03	
60.000	426.76	426.793	+0.03	
61.327	426.78	426.786	+0.01	
67.381	426.74	426.766	+0.02	
70.000	426.73	426.743	+0.01	
80.000	426.70	426.693	-0.01	
90.000	426.66	426.643	-0.02	
98.081	426.59	426.602	+0.01	
100.000	426.58	426.593	+0.01	
110.000	426.56	426.543	-0.02	
120.000	426.55	426.493	-0.06	
130.000	426.53	426.443	-0.09	
140.000	426.47	426.393	-0.08	
150.000	426.41	426.343	-0.07	
160.000	426.29	426.218	-0.07	
170.000	426.18	426.092	-0.09	
180.000	426.04	425.967	-0.07	
190.000	425.89	425.842	-0.05	
193.516	425.83	425.798	-0.03	
200.000	425.70	425.716	+0.02	
210.000	425.51	425.591	+0.08	
220.000	425.31	425.466	+0.16	
230.000	425.23	425.341	+0.11	
232.445	425.21	425.310	+0.10	

LONGITUDINAL SECTION - ACCESS ROAD (CENTRELINE) - Ch 0.0m to Ch 232.44m
 SCALE H: 1:500 V: 1:50

100% DESIGN BUILD - FOR APPROVAL (CIVIL) APPROVED: J.L.A. DATE: 13/05/2025		CHECKED: J.L.A. DATE: 13/05/2025		TWO RIVERS COMMUNITY SCHOOL STAGE 1 & 2 - EXTERNAL CIVIL WORKS ROAD LONGITUDINAL SECTION - NEW ACCESS ROAD ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL FOR APPROVAL LU23112-1-CD-301 A	
DRAWN: J.L.A. DATE: 13/05/2025		CHECKED: J.L.A. DATE: 13/05/2025		DRAWING NUMBER: LU23112-1-CD-301 A	

NOTE:
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 2. THE DRAWING QUANTITY AND BIDDING INFORMATION IS FOR INFORMATION ONLY.
 3. THE DRAWING QUANTITY AND BIDDING INFORMATION IS FOR INFORMATION ONLY.
 4. THE DRAWING QUANTITY AND BIDDING INFORMATION IS FOR INFORMATION ONLY.
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 9. THE DRAWING QUANTITY AND BIDDING INFORMATION IS FOR INFORMATION ONLY.
 10. THE DRAWING QUANTITY AND BIDDING INFORMATION IS FOR INFORMATION ONLY.



100% DESIGN ISSUE - FOR APPROVAL (CPM)

Approved: J.L.A. Date: 13/05/2025

Project: A

Location: CHEWKO ROAD

Scale: 1:1000

Sheet: 2 OF 6

Project: A

Location: CHEWKO ROAD

Scale: 1:1000

Sheet: 2 OF 6

Project: A

Location: CHEWKO ROAD

Scale: 1:1000

Sheet: 2 OF 6

TWO RIVERS COMMUNITY SCHOOL

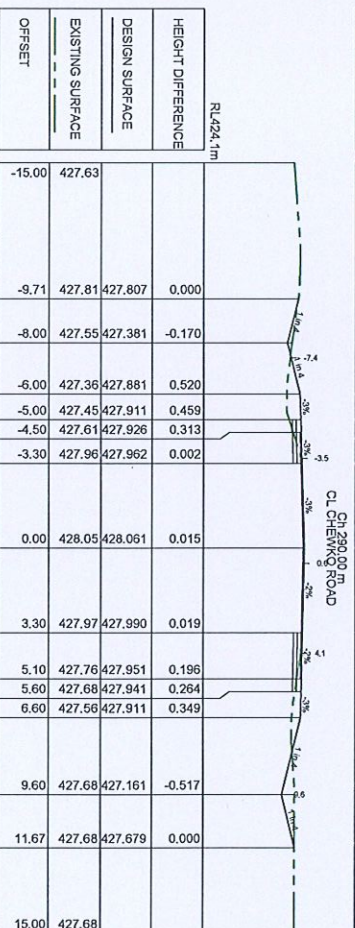
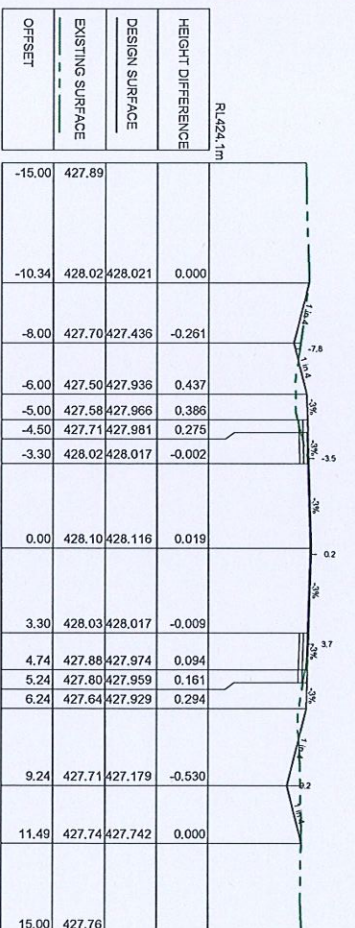
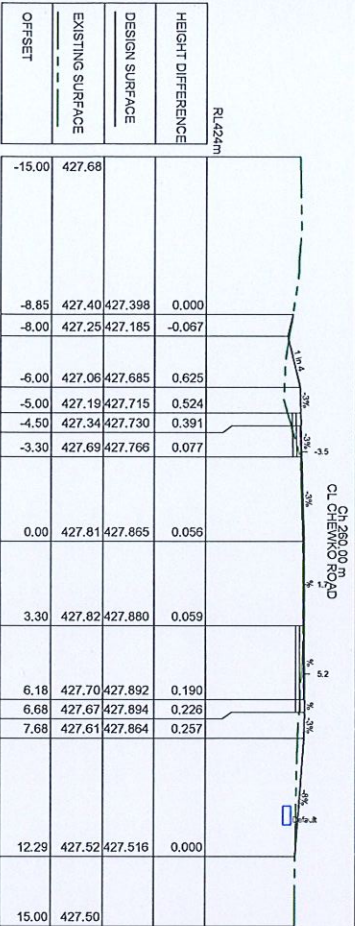
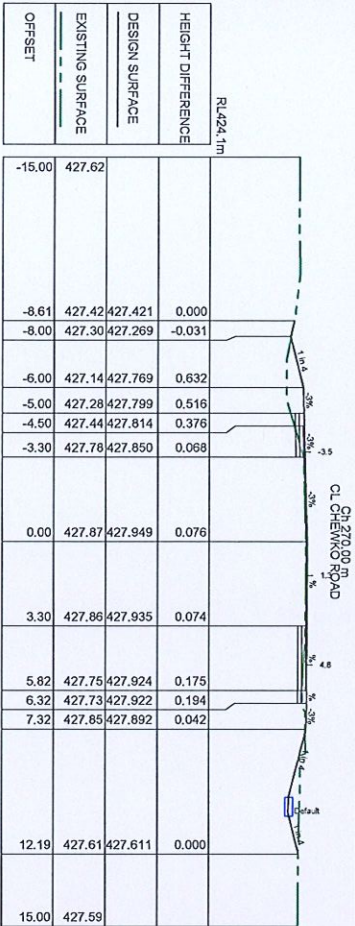
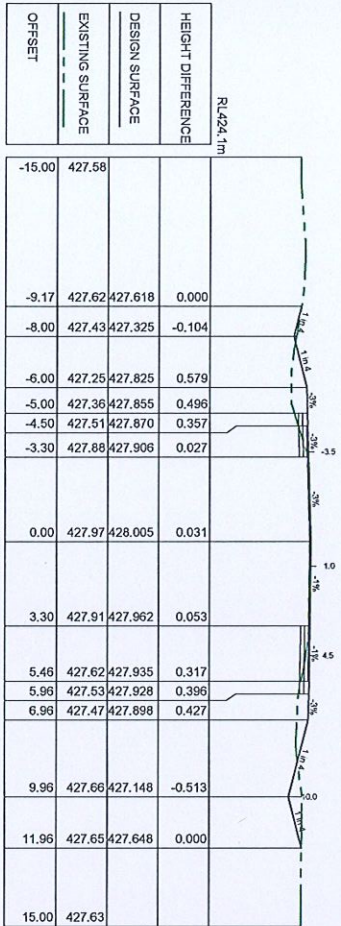
STAGE 1 & 2 - EXTERNAL CIVIL WORKS

CROSS SECTIONS - CHEWKO ROAD - SHEET 2 OF 6

ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

FOR APPROVAL LUT3112-1-CD-402 A

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 6. THE CLIENT IS ADVISED THAT THE DESIGN IS NOT A GUARANTEE OF SAFETY.
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 8. THE CLIENT IS ADVISED THAT THE DESIGN IS NOT A GUARANTEE OF AESTHETICS.
 9. THE CLIENT IS ADVISED THAT THE DESIGN IS NOT A GUARANTEE OF ENVIRONMENTAL IMPACT.
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SCALE 1:1000



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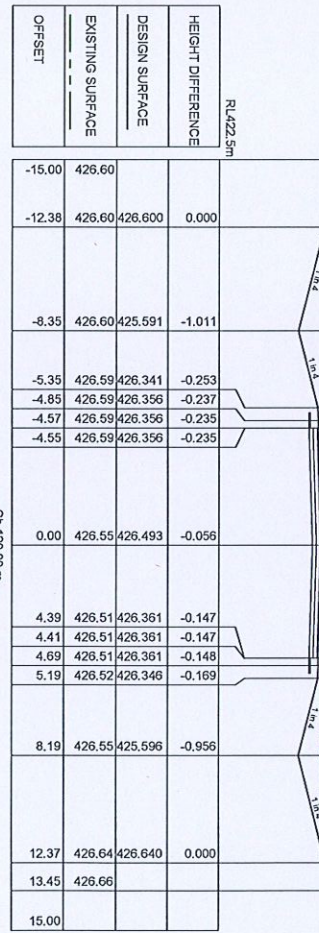
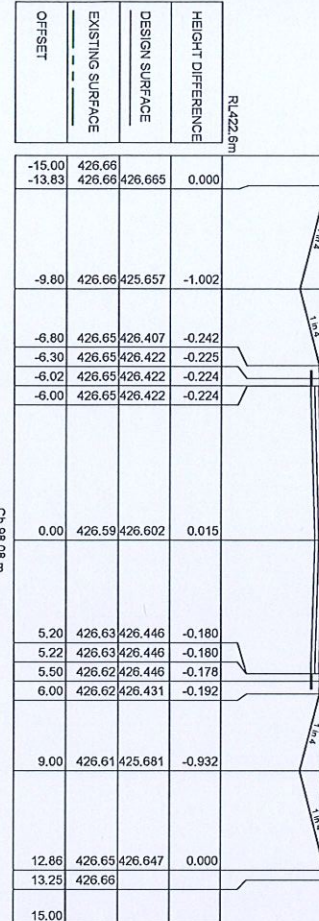
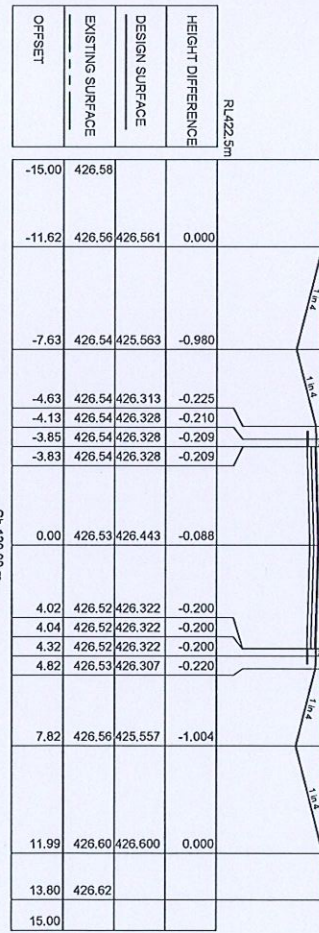
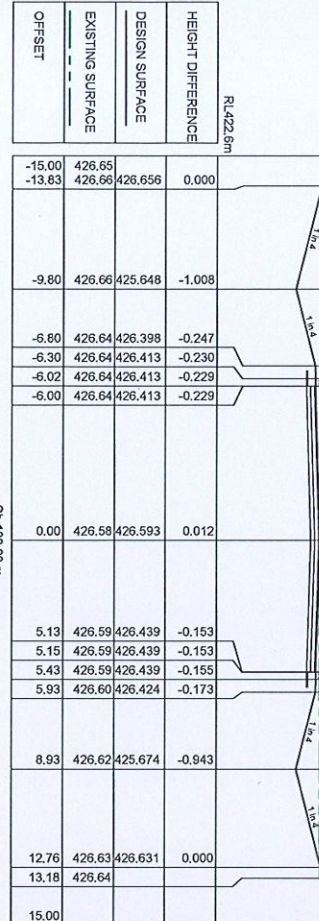
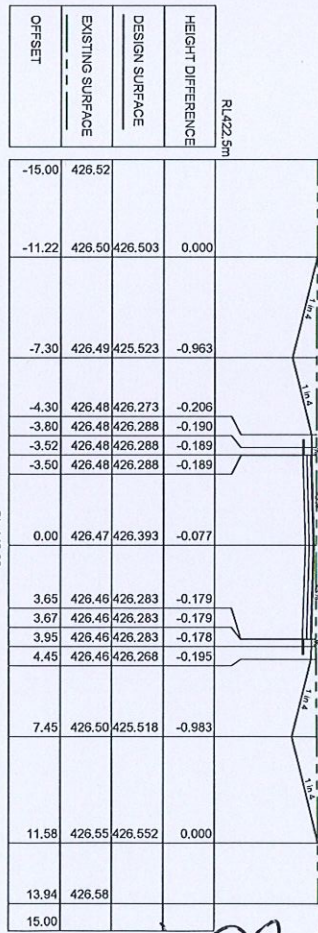
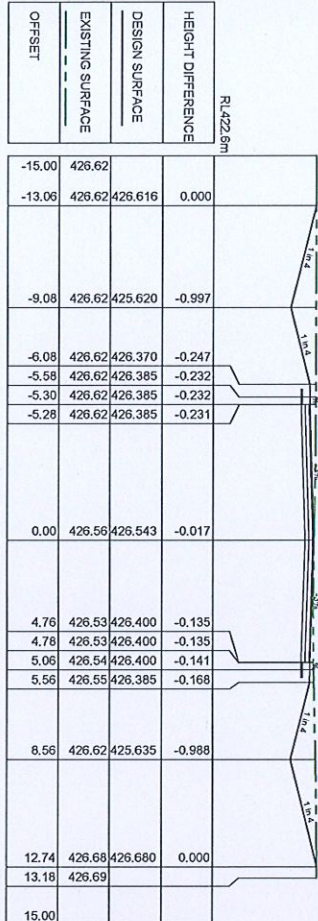
100% DESIGN ISSUE - FOR APPROVAL (CPV)

Revision	Author	Check	Date
A	J.L.A.	J.L.A.	13/05/2025

TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - EXTERNAL CIVIL WORKS
 CROSS SECTIONS - CHEWKO ROAD - SHEET 6 OF 6
 CHEWKO ROAD & 267 MCIVER ROAD, MAREEBA QLD
 ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL
FOR APPROVAL LU23112-1-CD-406 A

B. 21/8/2025

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100% DESIGN ISSUE - FOR APPROVAL (DPM)

Author: J.L.A.

Approved: J.L.A.

Date: 13/05/2025

SCALE 1:100@H1

0 2 4 6 8 10 m

Original: A.D.B.

Revised: J.L.A.

Date: 13/05/2025

Lekker Urban.

CHENKO ROAD & 267 NEWER ROAD, MASEBIA OLD

ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

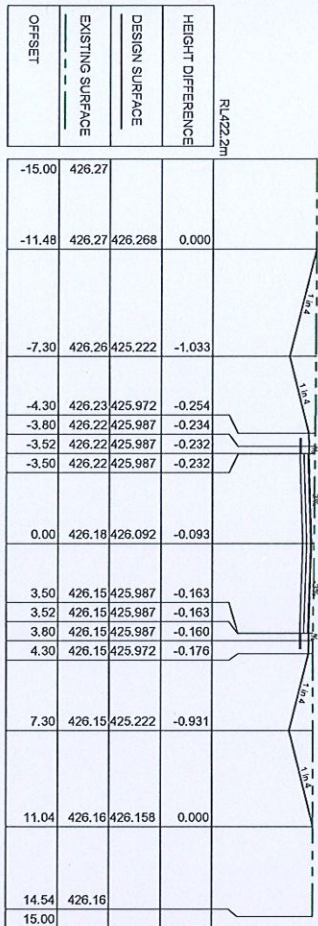
FOR APPROVAL LUT3112-1-CD-410 A

TWO RIVERS COMMUNITY SCHOOL

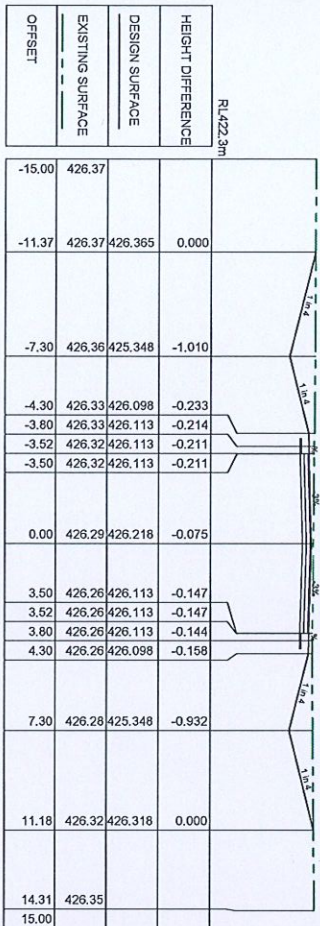
STAGE 1 & 2 - EXTERNAL CIVIL WORKS

CROSS SECTIONS - NEW ACCESS ROAD - SHEET 4 OF 6

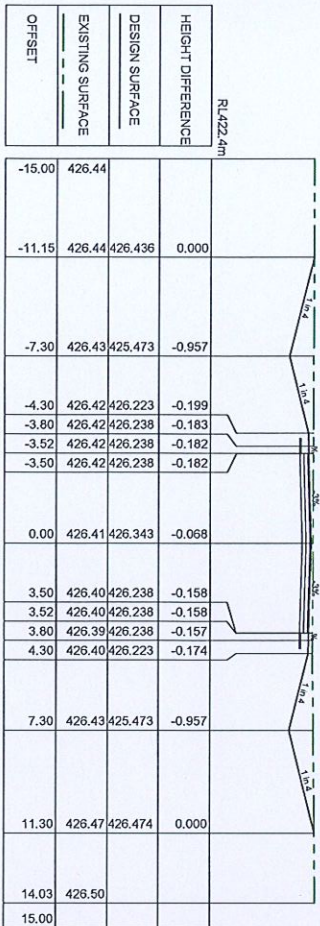
NOTE:
 1. THE DRAWING IS THE PROPERTY OF THE CLIENT AND IS NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
 2. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DATA OR INFORMATION PROVIDED BY THE CLIENT.
 3. THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE WORKS OR FOR THE MAINTENANCE OF THE WORKS.
 4. THE ENGINEER IS NOT RESPONSIBLE FOR THE OPERATION OF THE WORKS OR FOR THE SAFETY OF THE PUBLIC.
 5. THE ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF THE WORKS OR FOR THE CONSTRUCTION OF THE WORKS.
 6. THE ENGINEER IS NOT RESPONSIBLE FOR THE OPERATION OF THE WORKS OR FOR THE SAFETY OF THE PUBLIC.
 7. THE ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF THE WORKS OR FOR THE CONSTRUCTION OF THE WORKS.
 8. THE ENGINEER IS NOT RESPONSIBLE FOR THE OPERATION OF THE WORKS OR FOR THE SAFETY OF THE PUBLIC.
 9. THE ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF THE WORKS OR FOR THE CONSTRUCTION OF THE WORKS.
 10. THE ENGINEER IS NOT RESPONSIBLE FOR THE OPERATION OF THE WORKS OR FOR THE SAFETY OF THE PUBLIC.



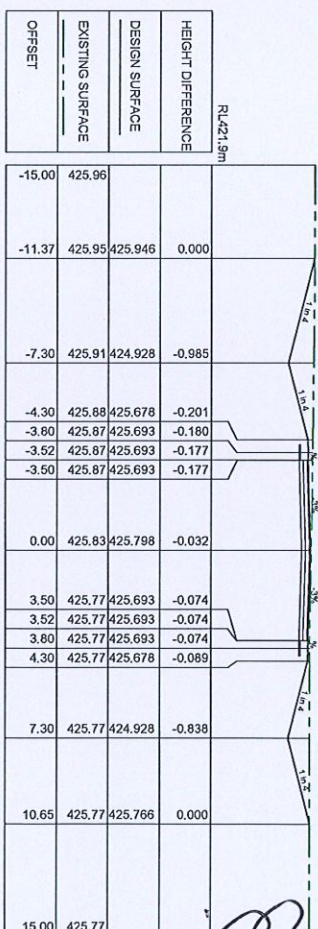
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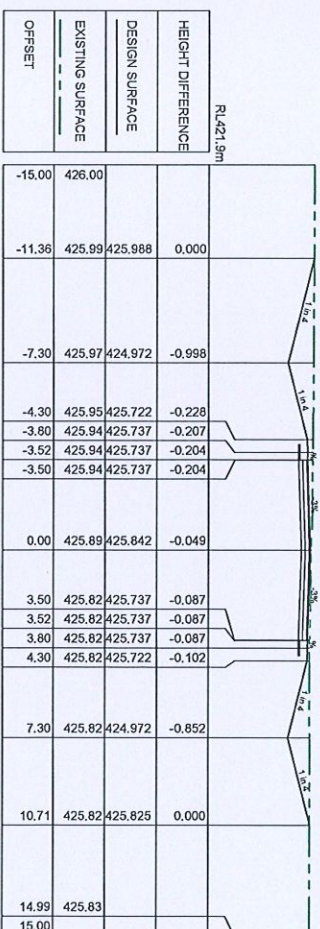
CL NEW ACCESS ROAD



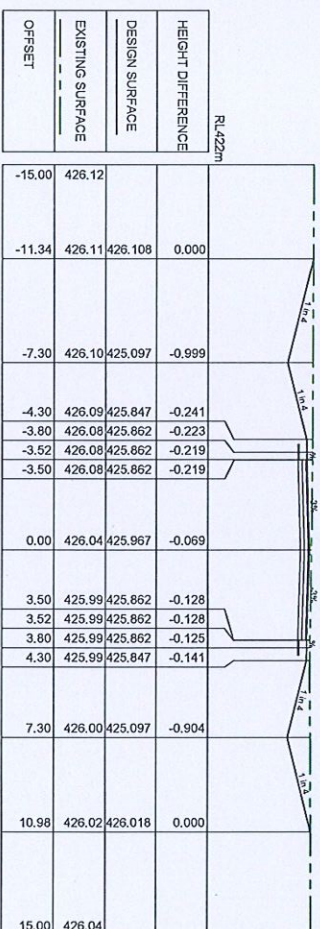
CL NEW ACCESS ROAD



CL NEW ACCESS ROAD



CL NEW ACCESS ROAD



CL NEW ACCESS ROAD

100% DESIGN ISSUE - FOR APPROVAL (CPW)

Author: J.L.A.

Approved: J.L.A.

Date: 13/05/2025

CONTACT: LUKER URBAN

100% DESIGN ISSUE - FOR APPROVAL (CPW)

Author: J.L.A.

Approved: J.L.A.

Date: 13/05/2025

Luker Urban.

SCALE 1:100 @ 11m

0 2 4 6 8 10 m

DESIGNED: A.P.B.

APPROVED: J.L.A.

DATE: 13/05/2025

TWO RIVERS COMMUNITY SCHOOL

STAGE 1 & 2 - EXTERNAL CIVIL WORKS

CROSS SECTIONS - NEW ACCESS ROAD - SHEET 5 OF 6

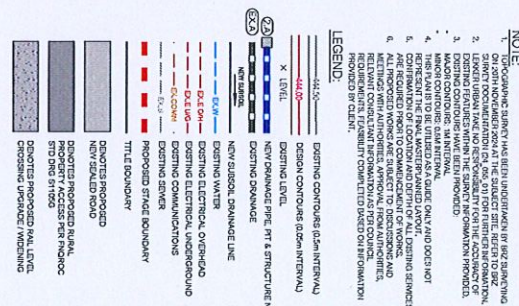
CHEWKO ROAD & 287 MCIVER ROAD, MAREEBA QLD

ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

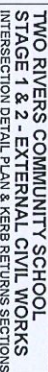
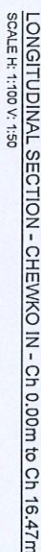
FOR APPROVAL LU23112-1-CD-411 A

B.2.2

21/8/2025



HORIZONTAL GEOMETRY AT ROAD CENTRELINE			R.L. 423.500
HEIGHT DIFFERENCE (m)	DESIGN LEVELS AT ROAD CENTRELINE	EXISTING LEVELS AT ROAD CENTRELINE	
0.000	426.55	426.678	Crest Ch 1,244 RL 426.68 0.254% 0.294% 1.193% 1.053% 0.568% 8.218 R 8.218 R 366.243 R 8.218 R Sag Ch 14,373 RL 426.570 16.476
0.010	426.55	426.678	
1.000	426.59	426.680	
2.000	426.64	426.680	
2.000	426.68	426.679	
3.000	426.87	426.676	
4.000	426.90	426.671	
4.119	426.91	426.670	
5.000	426.93	426.663	
6.000	426.94	426.653	
7.000	426.89	426.640	
8.000	426.83	426.625	
8.228	426.83	426.622	
8.248	426.83	426.621	
9.000	426.82	426.610	
9.491	426.81	426.603	
10.000	426.80	426.596	
11.000	426.78	426.586	
12.000	426.75	426.578	8.218 R 366.243 R 8.218 R
12.357	426.75	426.576	
13.000	426.73	426.573	
14.000	426.71	426.571	
14.373	426.71	426.570	
15.000	426.70	426.571	
16.000	426.69	426.574	
16.468	426.69	426.576	
16.476	426.69	426.576	



**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - EXTERNAL CIVIL WORKS
INTERSECTION DETAIL PLAN & KERB RETURNS SECTIONS**

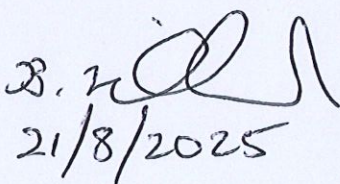
CHEMCO ROAD & 287 MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

FOR APPROVAL LU23112-1-CD-500 A

DRAWN: TUMULUCE
RAY

B. n. 
21/8/2025

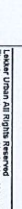
B. ncl
21/8/2025

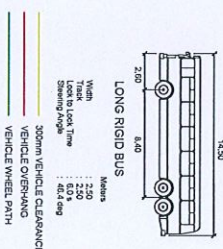
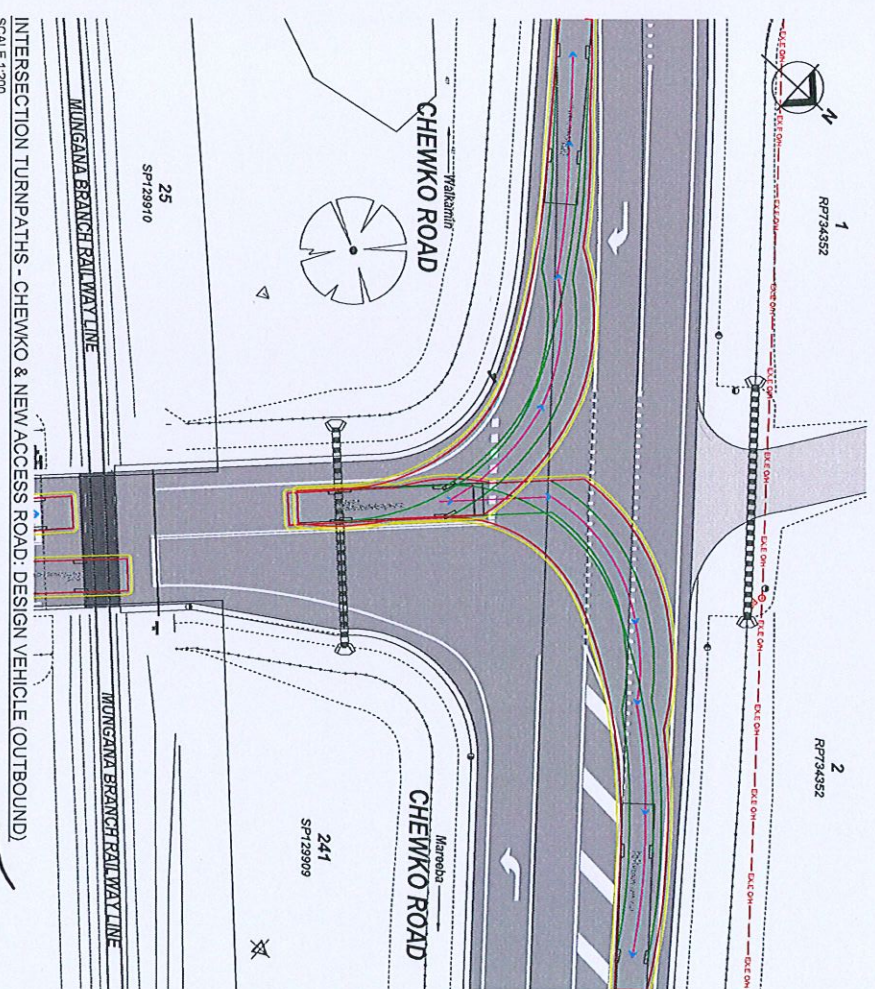
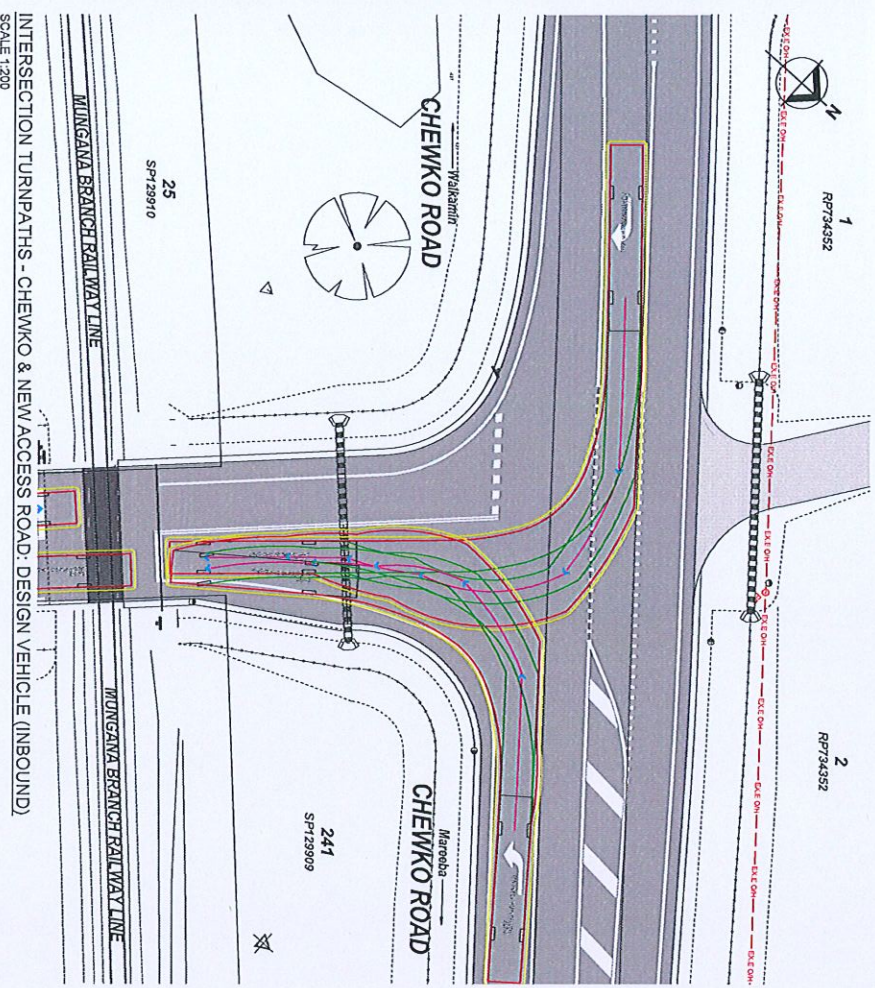
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21/8/2025

DRAINAGE PIT SCHEDULE

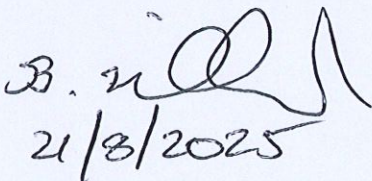
DRAINAGE PIT SCHEDULE												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
PIT 1A	HEADWALL (OUTLET)	600	-	600x300	426.330	600x300	426.330	0.500	426.783	328997.09	811752.47	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 1B	HEADWALL (INLET)	600	-	600x300	426.344	600x300	426.344	0.500	426.844	328987.11	811723.66	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 2A	HEADWALL (OUTLET)	600	-	600x300	426.678	600x300	426.678	0.500	427.150	328980.49	811714.00	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 2B	HEADWALL (INLET)	600	-	600x300	427.299	600x300	427.299	0.500	427.599	328986.21	811734.72	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 1A	HEADWALL (OUTLET)	600	-	600x300	426.048	600x300	426.048	0.500	426.503	328973.64	811722.697	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 1B	HEADWALL (INLET)	600	-	600x300	426.198	600x300	426.198	0.500	426.661	328970.46	811720.702	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 2A	HEADWALL (OUTLET)	600	-	600x300	426.658	600x300	426.658	0.500	427.160	328977.69	811717.669	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 2B	HEADWALL (INLET)	600	-	600x300	426.808	600x300	426.808	0.500	427.308	328974.37	811717.486	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 3A	HEADWALL (OUTLET)	600	-	600x300	426.040	600x300	426.040	0.500	426.536	328978.40	811721.624	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)
PIT 3B	HEADWALL (INLET)	600	-	600x300	426.271	600x300	426.271	0.500	426.771	328975.95	811722.220	RELIEF TO INGRESS STORMWATER DRAINING, 30% COLLECT HEADWALL, WINDWARD AND PIERCE 55000 FOR BURIED DETAIL, APPROX LENGTH TO BE 1M, 1M FROM INVERT, RING OF CLAYPIPE, JOINTS DETAIL, RING HEAD TO BASE OF EXCAVATED AREA UP UNDER HEADWALL TO PREVENT SCOUR. (4m2 TOTAL AT THE LENGTH)

		TWO RIVERS COMMUNITY SCHOOL STAGE 1 & 2 - EXTERNAL CIVIL WORKS DRAINAGE PVI SCHEDULES	
DRAWING NOT TO SCALE		TWO RIVERS COMMUNITY SCHOOL STAGE 1 & 2 - EXTERNAL CIVIL WORKS DRAINAGE PVI SCHEDULES	
Drawn	Checked	Designed	Reviewed
J.L.A	J.L.A	A.P.B	J.L.A
13/05/2025	13/05/2025	13/05/2025	13/05/2025
DATE OF DRAWING	DATE OF CHECK	DATE OF DESIGN	DATE OF REVIEW
13/05/2025	13/05/2025	13/05/2025	13/05/2025
FOR APPROVAL	FOR APPROVAL	FOR APPROVAL	FOR APPROVAL
L23112-1-CD-601	L23112-1-CD-601	L23112-1-CD-601	L23112-1-CD-601
REV	REV	REV	REV



DESIGN VEHICLE - 14.5m LONG RIGID BUS
N.T.S.

Project: A 100% DESIGN ISSUE - FOR APPROVAL (COPY) Amendments: Approved: J.L.A. Date: 13/05/2025	LECTER DESIGN & BUILD This document is provided by Lektor Urban solely for the use of the client and is not to be used for any other purpose without the written consent of Lektor Urban. The client acknowledges and agrees that Lektor Urban will not be responsible for any liability or damage to any person or property arising from the use of this document.	LECTER DESIGN & BUILD 100% DESIGN ISSUE - FOR APPROVAL (COPY) Amendments: Approved: J.L.A. Date: 13/05/2025	SCALE 1:200@A1 0 4 8 12 16 20 m Design: A.P.B. Checked: J.L.A. Drawn: J.L.A. Date: 13/05/2025	TWO RIVERS COMMUNITY SCHOOL STAGE 1 & 2 - EXTERNAL CIVIL WORKS VEHICLE TURN MOVEMENT LAYOUT PLAN - SHEET 1 OF 2 CHEWKO ROAD & 287 MOVER ROAD, MAREEBA QLD ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL FOR APPROVAL DRAWING NUMBER: LU23112-1-CD-800 REV: A
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DESIGN VEHICLE - 14.5m LONG RIGID BUS



**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - EXTERNAL CIVIL WORKS
VEHICLE TURN MOVEMENT LAYOUT PLAN - SHEET 2 OF 2**

CHEMUNO ROAD & 257 MCNER ROAD, MARREEA OLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

DRAWING NUMBER:
LU23112-1-CD-801

FOR APPROVAL

CIVIL ENGINEERING DRAWING LIST

The figure consists of two parts: an 'Overall Site Plan' and a 'Risk/Issues Management' table.

Overall Site Plan: This is a detailed site plan for a proposed development. It shows a large rectangular area divided into several sections, numbered 1 through 5. Section 1 is the largest and contains a complex arrangement of buildings and roads. Section 2 is a smaller area to the right of Section 1. Section 3 is a narrow strip of land to the right of Section 2. Section 4 is a larger area to the right of Section 3. Section 5 is the largest area on the right, containing a large building and a road. The plan also shows a 'Mungana Branch Line' and a 'Chewko Road'. A north arrow is located in the top right corner. A dashed line labeled 'SITE LOCATION' points to the site from the 'LOCALITY PLAN' on the left.

Risk/Issues Management Table:

RISK/ISSUES MANAGEMENT	
PROJECT DETAILS	
Risk	Recommendation
Risks / Design Issues / Discussions Existing dam is present on adjoining property and is not to be disturbed. The dam is a concrete gravity dam and is in good condition. The dam has not been investigated and the integrity of the dam has not been confirmed. The dam is a potential risk to the proposed development. The dam is a potential risk to the proposed development. The dam is a potential risk to the proposed development. Further Investigation: Further investigation is required for the dam. Further investigation is required for the dam. Further investigation is required for the dam.	Recommendation: Further investigation is required for the dam. Further investigation is required for the dam. Further investigation is required for the dam.

B. M. [Signature]
21/8/2025

DRAWING NOT TO SCALE

**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
COVER SHEET, LOCALITY & DRAWING SCHEDULES**

Lekker Urban.

CAPITEC 60-70 WALLPAPER, STREET STATIONERY, GILD
CONTACT: GILBERT J. JONES (GIL)
GILBERT J. JONES (GIL) 415-778-3333

Designed	A.P.E.
Authorized	J.L.A.

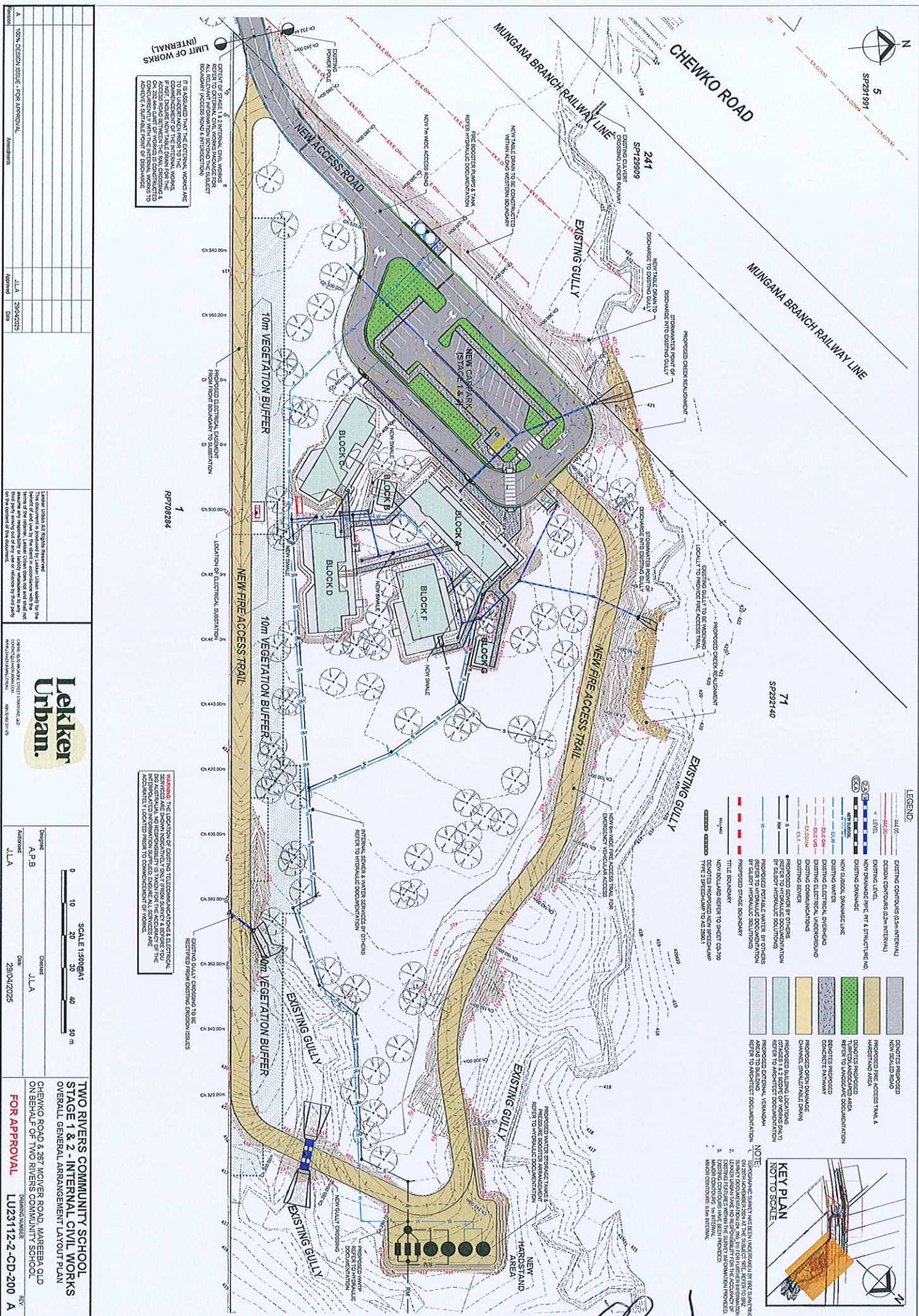
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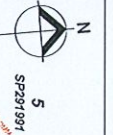
FOR APPROVAL

DRAWING NUMBER

LU23112-2-CD-1

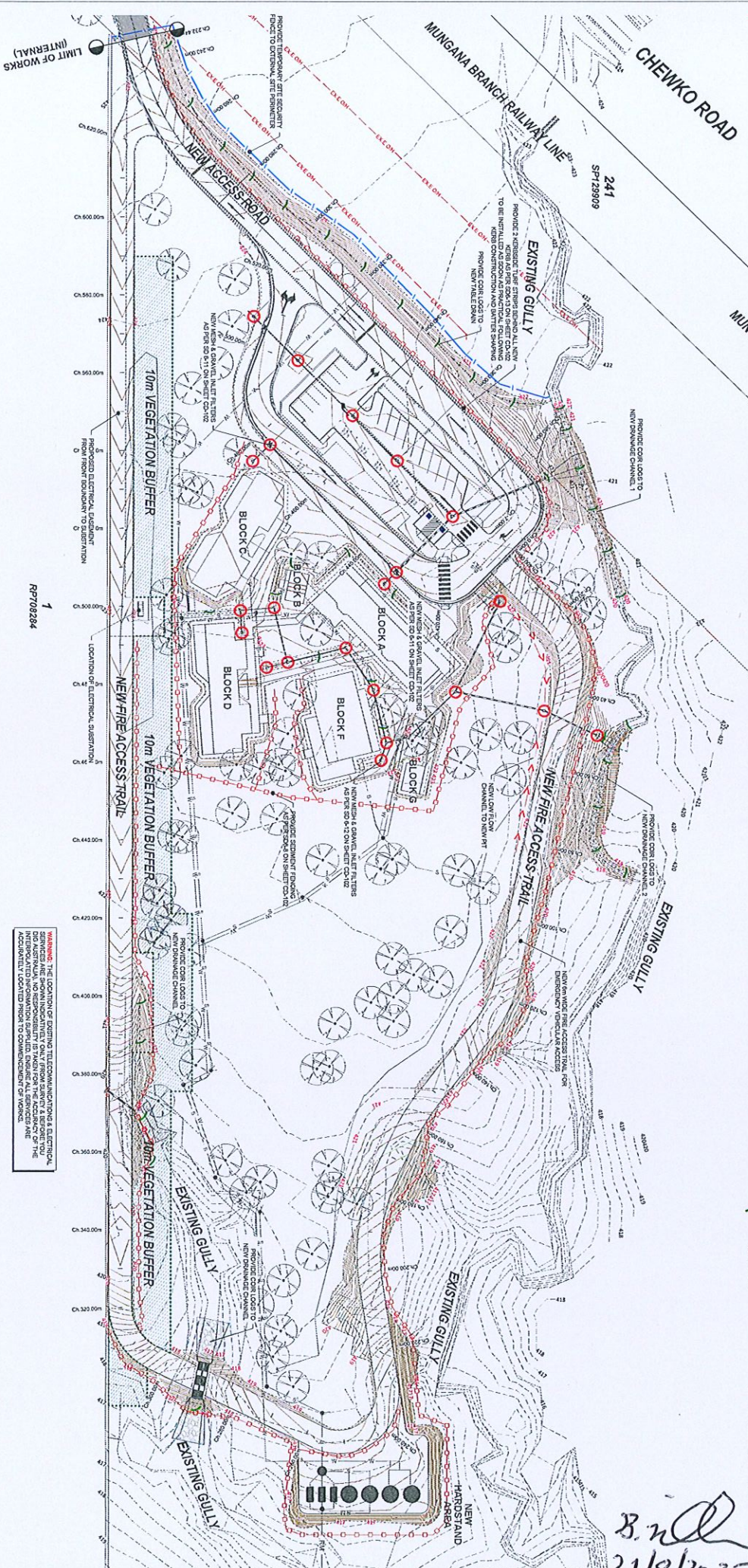
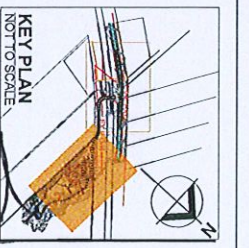
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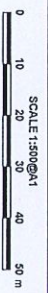


71
SP23140

- NOTE:
1. NOTED TO L23112-CD-01 FOR EROSION & SEDIMENT CONTROL.
 2. THE LAYOUT PROVIDED IN THIS CONCEPTUAL DESIGN AND PRELIMINARY QUOTE ONLY. IT IS THE RESPONSIBILITY OF THE CLIENT TO OBTAIN ALL NECESSARY APPROVALS AND PERMITS FROM THE RELEVANT AUTHORITIES AND TO ENSURE THAT THE DESIGN AND CONSTRUCTION OF THE PROJECT COMPLY WITH ALL APPLICABLE REGULATIONS AND STANDARDS. THE CLIENT SHOULD CONSULT WITH THE RELEVANT AUTHORITIES AND OBTAIN APPROVALS BEFORE IMPLEMENTATION.
- LEGEND:
- NEW SEDIMENT FENCING AS PER SD 4.6
 - NEW TEMPORARY FIRE SECURITY FENCE
 - NEW ASPHALT DRIVEWAY
 - NEW ASPHALT DRIVEWAY
 - NEW LOW FLOW CHANNEL
 - NEW COIL LOD



WARNING: THE LOCATION OF EXISTING TELECOMMUNICATIONS & ELECTRICAL INFRASTRUCTURE IS SHOWN FOR INFORMATION ONLY. THE CLIENT IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS AND PERMITS FROM THE RELEVANT AUTHORITIES AND TO ENSURE THAT THE DESIGN AND CONSTRUCTION OF THE PROJECT COMPLY WITH ALL APPLICABLE REGULATIONS AND STANDARDS. THE CLIENT SHOULD CONSULT WITH THE RELEVANT AUTHORITIES AND OBTAIN APPROVALS BEFORE IMPLEMENTATION.



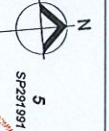
Rev	Description	Date	By	App
1	100% DESIGN ISSUE - FOR APPROVAL	29/04/2025	J.L.A.	

LEKKER Urban.

LEKKER Urban.

Original: APB
Checked: J.L.A.
Date: 29/04/2025

TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
CONCEPT EROSION & SEDIMENT CONTROL LAYOUT PLAN
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL
FOR APPROVAL
DRAWING NUMBER: LU23112-2-CD-201
REV: A



SP291991
5
1:5000

CHEWKO ROAD

MUNGAMA BRANCH RAILWAY LINE

241
SP129909

EXISTING GULLY

EXISTING GULLY

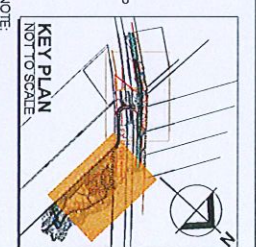
EXISTING GULLY

EXISTING GULLY

LIMIT OF WORKS
(INTERNAL)

T1
SP292140

- LEGEND:**
- EXISTING CONTOURS (5m INTERVAL)
 - LEVEL
 - EXISTING LEVEL
 - PROPOSED EXTENT OF VEGETATION TO BE CLEARED FOR CIVIL WORKS
 - PROPOSED AREA TO BE UNDER SCOURED WITH LARGE TREES TO BE RETAINED
 - DO NOTS EXISTING TREE TO BE REMOVED
 - DO NOTS EXISTING TREE TO BE RETAINED



NOTE:

1. TOPOGRAHY SURVEY HAS BEEN UNDERTAKEN BY BUREAU OF LAND MANAGEMENT (BLM) AND IS AVAILABLE FOR THE SITE VISIT. THE SITE VISIT SHOULD BE CONDUCTED BY THE CLIENT OR THE DESIGNER TO VERIFY THE ACCURACY OF THE SURVEY DATA.
2. DESIGN CONTOURS HAVE BEEN PROVIDED.
3. DESIGN CONTOURS HAVE BEEN PROVIDED.
4. DESIGN CONTOURS HAVE BEEN PROVIDED.
5. DESIGN CONTOURS HAVE BEEN PROVIDED.
6. DESIGN CONTOURS HAVE BEEN PROVIDED.
7. DESIGN CONTOURS HAVE BEEN PROVIDED.
8. DESIGN CONTOURS HAVE BEEN PROVIDED.
9. DESIGN CONTOURS HAVE BEEN PROVIDED.
10. DESIGN CONTOURS HAVE BEEN PROVIDED.

WARNING: THE LOCATION OF EXISTING TELECOMMUNICATIONS & ELECTRICAL INFRASTRUCTURE IS NOT SHOWN ON THIS PLAN. THE CLIENT IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING SUCH INFRASTRUCTURE. ANY INFRASTRUCTURE LOCATED WITHIN THE PROPOSED WORKS AREA SHOULD BE IDENTIFIED AND PROTECTED PRIOR TO COMMENCEMENT OF WORKS.

1
RPT02864

SCALE 1:500@A1
0 10 20 30 40 50 m

REVISION	DATE	BY	APP	CHK
A	10/04/2025	JLA	JLA	JLA
B	23/04/2025	JLA	JLA	JLA

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Lukker Urban.
Lukker Urban Pty Ltd
10/100 WILSON STREET, SYDNEY NSW 1570
02 9550 1234
www.lukkerurban.com.au

Designed: APB
Checked: JLA
Date: 23/04/2025

**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
CLEARING & DEMOLITION LAYOUT PLAN**
CHEWKO ROAD & 267 MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL.
FOR APPROVAL LU23112-2-CD-202 A

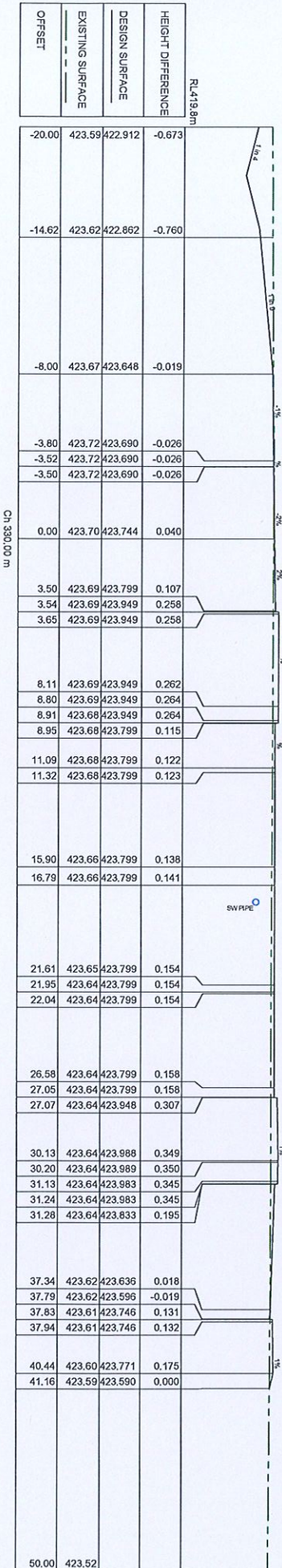
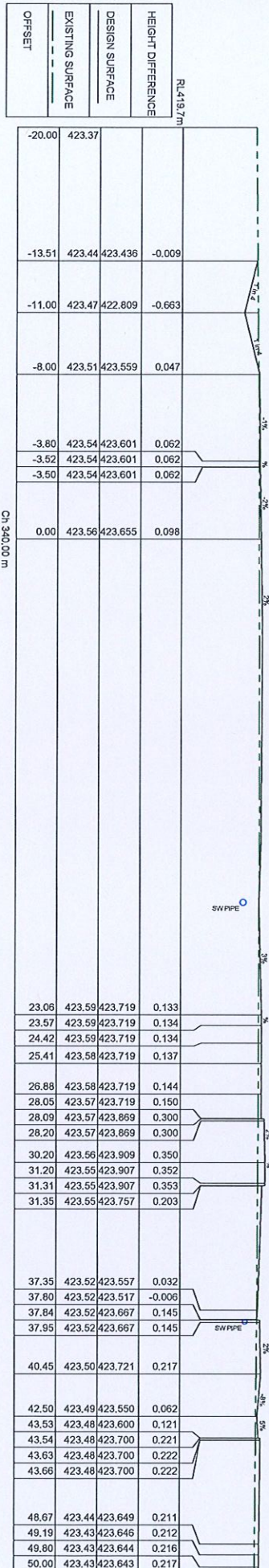
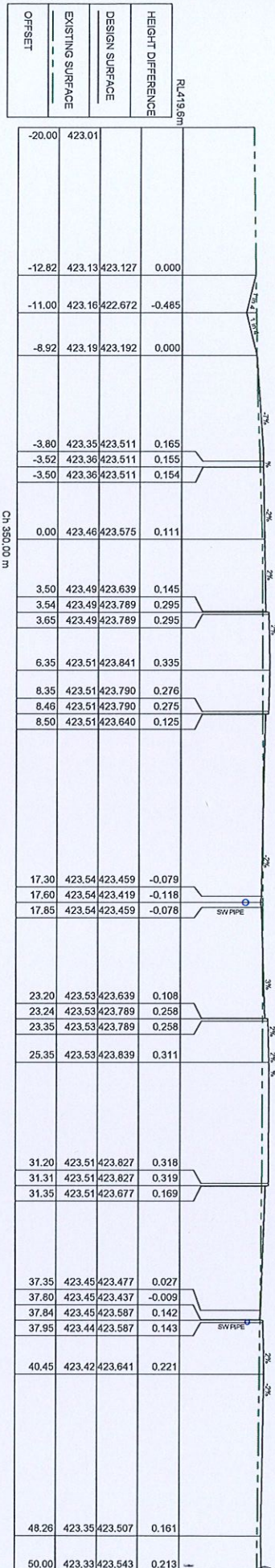
21/8/2025

OFFSET	EXISTING SURFACE	DESIGN SURFACE	HEIGHT DIFFERENCE	R420.1m
-15.00	424.11			
-10.46	424.07	424.071	0.000	
-7.30	424.04	423.282	-0.760	
-4.30	424.02	424.032	0.007	
-3.80	424.02	424.047	0.025	
-3.52	424.02	424.047	0.027	
-3.50	424.02	424.047	0.027	
0.00	424.03	424.050	0.022	
3.50	424.04	424.047	0.006	
3.52	424.04	424.047	0.006	
3.80	424.04	424.047	0.005	
3.62	424.04	424.042	0.000	
6.29	424.05	424.050		
15.00	424.02			

HEIGHT DIFFERENCE	DESIGN SURFACE	EXISTING SURFACE	OFFSET
R4.420.3m			
-15.00	424.23		
-10.53	424.19	424.188	0.000
-7.30	424.16	423.381	-0.781
-4.30	424.15	424.131	-0.014
-3.80	424.14	424.146	0.004
-3.52	424.14	424.146	0.005
-3.50	424.14	424.146	0.005
0.00	424.16	424.200	0.040
3.50	424.18	424.146	-0.035
3.52	424.18	424.146	-0.035
3.80	424.18	424.146	-0.037
3.95	424.18	424.184	0.000
15.00	424.16		

R1420.5m					
HEIGHT DIFFERENCE					
DESIGN SURFACE					
EXISTING SURFACE					
OFFSET					
-15.00	424.39				
-10.52	424.37	424.369	0.000		
-7.30	424.35	423.564	-0.789		
-4.30	424.34	424.314	-0.031		
-3.80	424.34	424.329	-0.014		
-3.52	424.34	424.329	-0.013		
-3.50	424.34	424.329	-0.013		
0.00	424.35	424.434	0.083		
3.50	424.35	424.329	-0.023		
3.52	424.35	424.329	-0.023		
3.80	424.35	424.329	-0.023		
3.89	424.35	424.351	0.000		
15.00	424.38				

B. n. [Signature]
21/8/2025



10% DESIGN ISSUE - FOR APPROVAL

Approved: J.L.A. 29/04/2025

Drawn: J.L.A.

DATE: 29/04/2025

SCALE: 1:1000

0 2 4 6 8 10 m

DESIGNED BY: A.P.B.

CHECKED BY: J.L.A.

DATE: 29/04/2025

TWO RIVERS COMMUNITY SCHOOL

STAGE 1 & 2 - INTERNAL CIVIL WORKS

ROAD CROSS SECTIONS

ACCESS ROAD - SHEET 3 OF 4

CHEWKO ROAD & 287 MCIVER ROAD, MAREEBA QLD

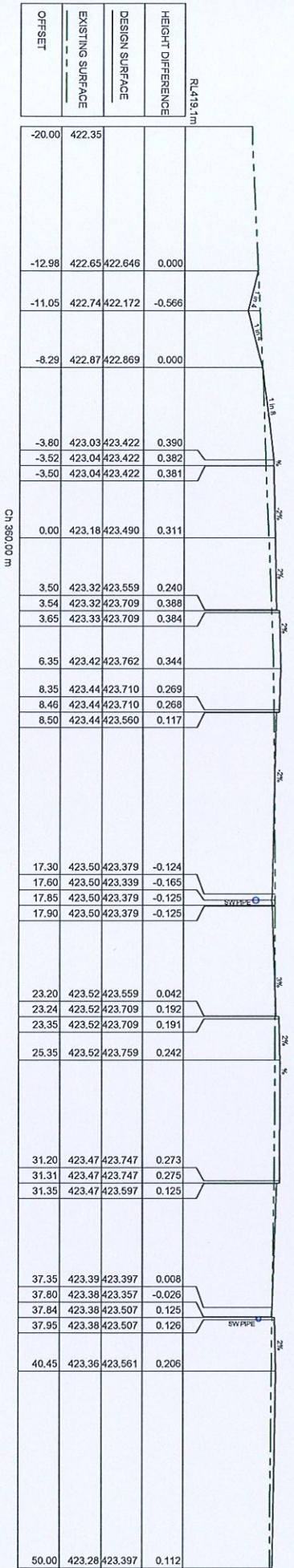
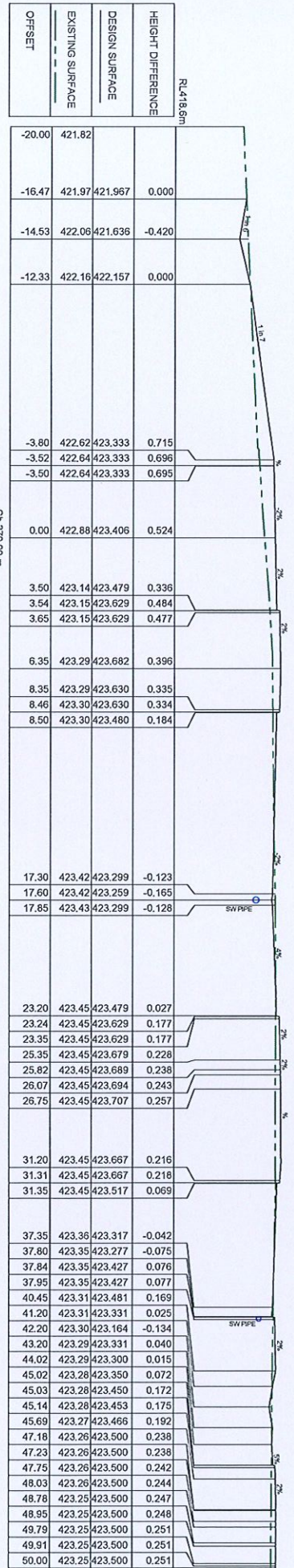
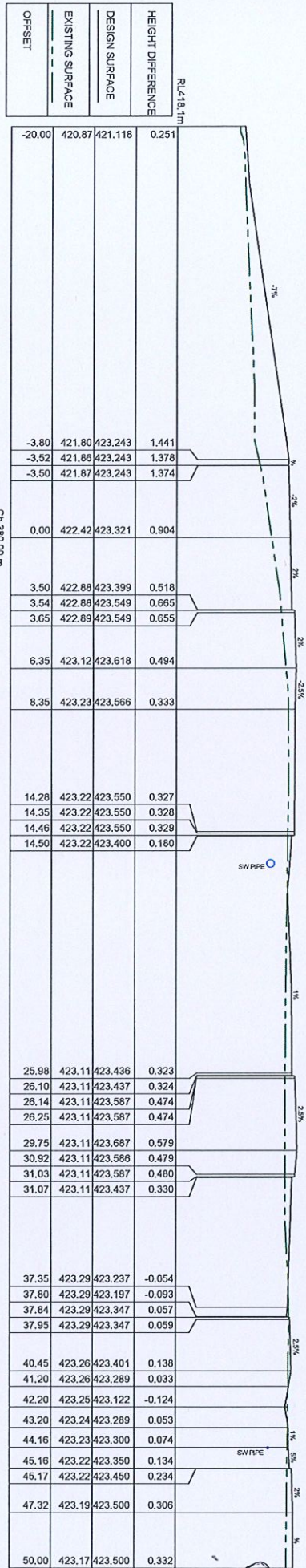
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

FOR APPROVAL

LU23112-2-CD-403 A

B.2.2.2

21/8/2025



100% DESIGN ISSUE - FOR APPROVAL

Revision: J.L.A. 29/04/2025

Approved: J.L.A. 29/04/2025

DATE: 03/04/2025

PROJECT: LUKKUR Urban.

LOCATION: 100% DESIGN ISSUE - FOR APPROVAL

SCALE: 1:100 @ A1

DATE: 29/04/2025

FOR APPROVAL LUKKUR Urban.

DESIGNER: J.L.A.

CHECKED: J.L.A.

DATE: 29/04/2025

PROJECT: LUKKUR Urban.

LOCATION: 100% DESIGN ISSUE - FOR APPROVAL

SCALE: 1:100 @ A1

DATE: 29/04/2025

FOR APPROVAL LUKKUR Urban.

Ch 40.00 mCh 100.00 m

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SCALE: 1:10000

Topographic A.P.B. J.L.A.

Antennae Date 29/04/2005

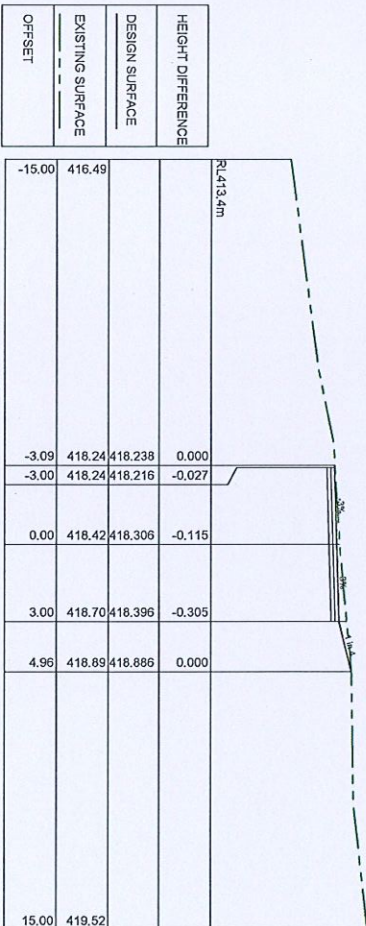
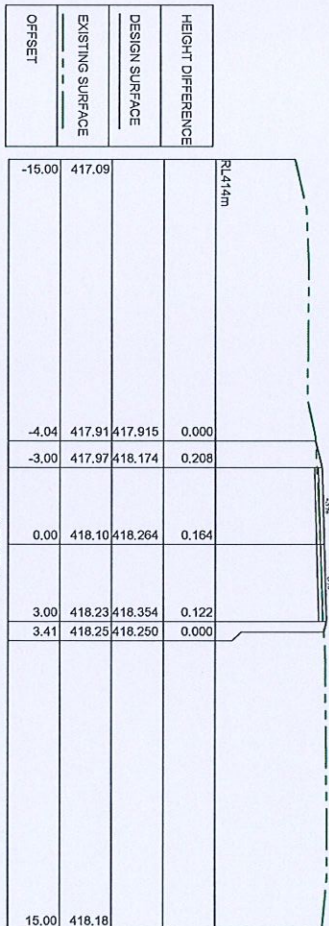
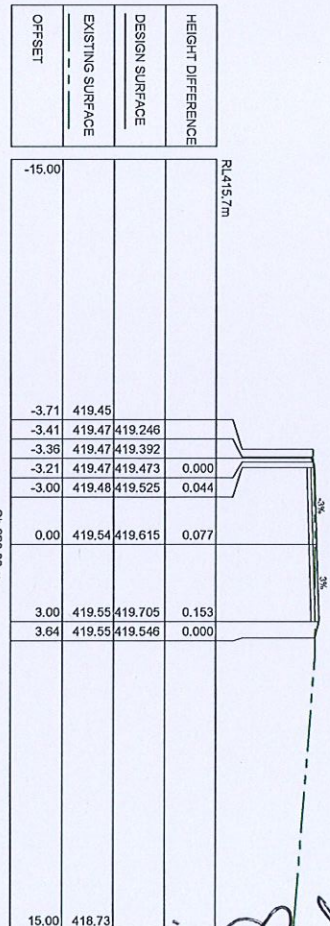
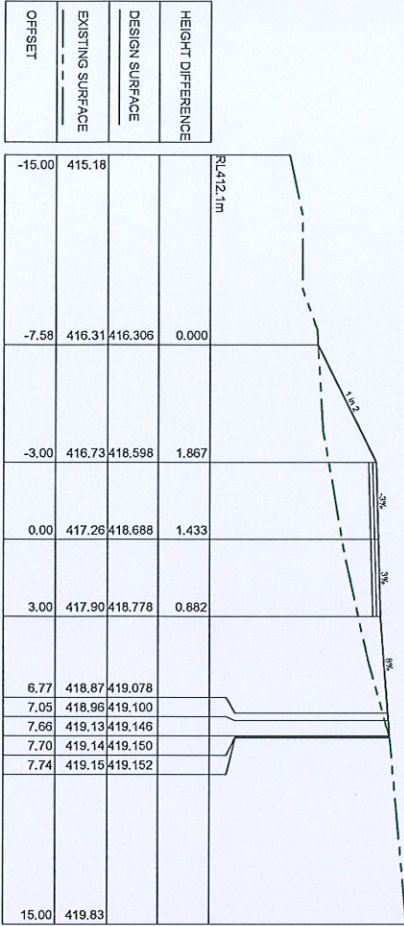
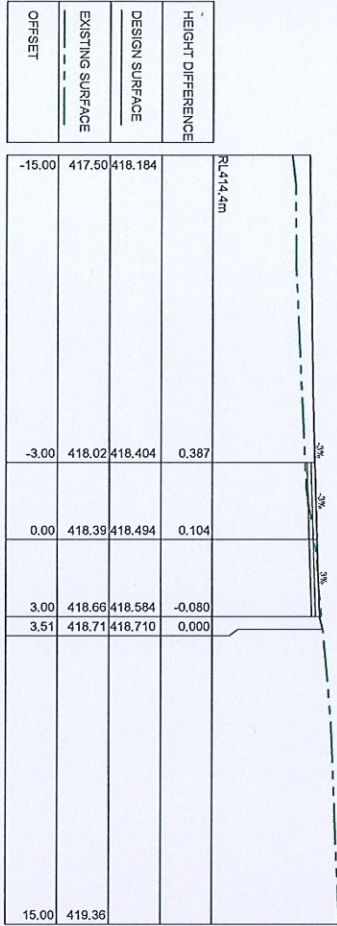
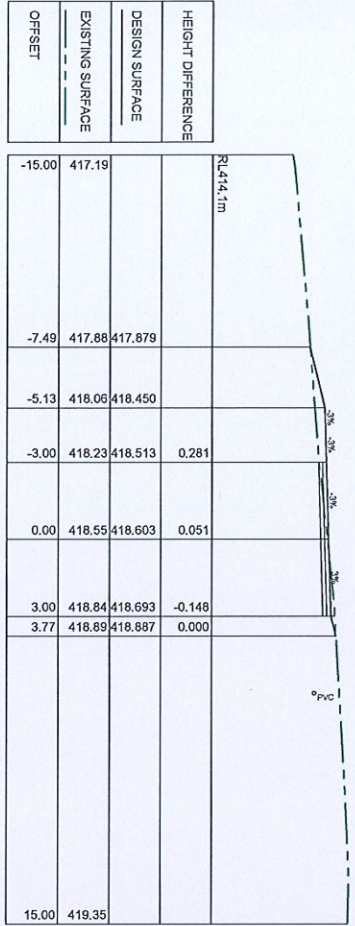
**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
ROAD CROSS SECTIONS
FIRE ACCESS TRAIL - SHEET 1 OF 6
CHENKO ROAD & 267 MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL**

FOR APPROVAL

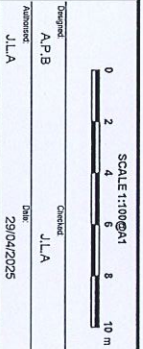
LUT32112-2-CD-405 A

ISSUING OFFICE: **NSW**

B. noll
21/8/2025



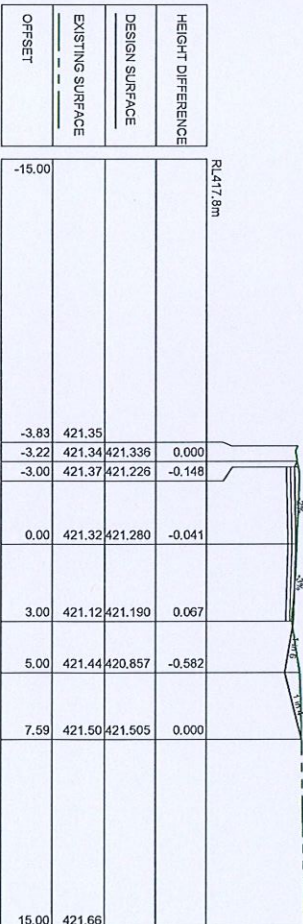
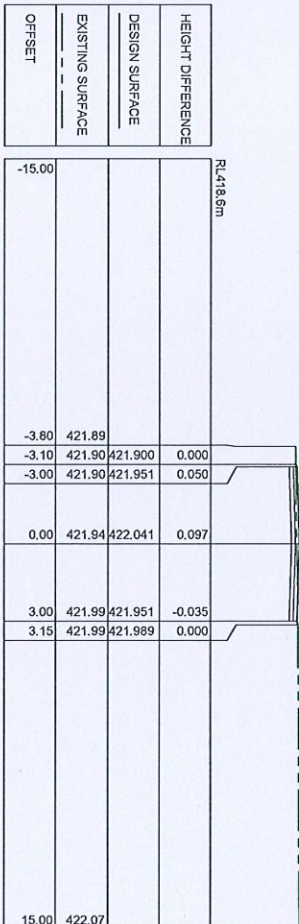
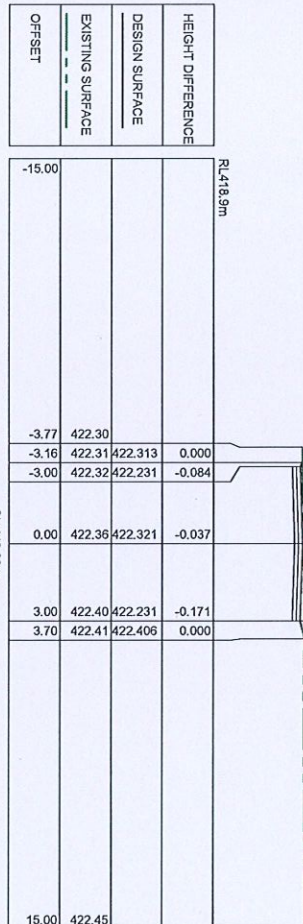
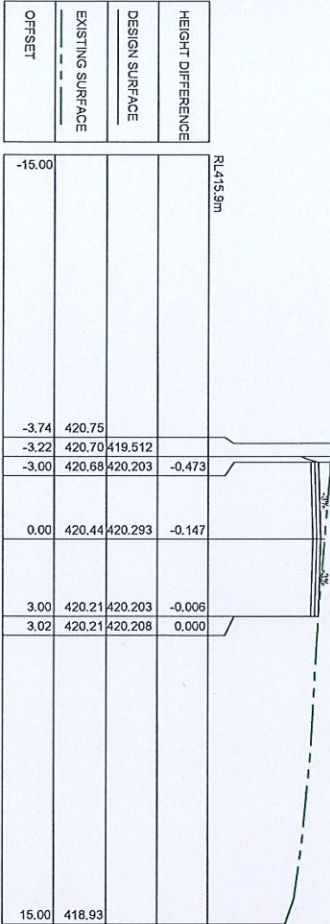
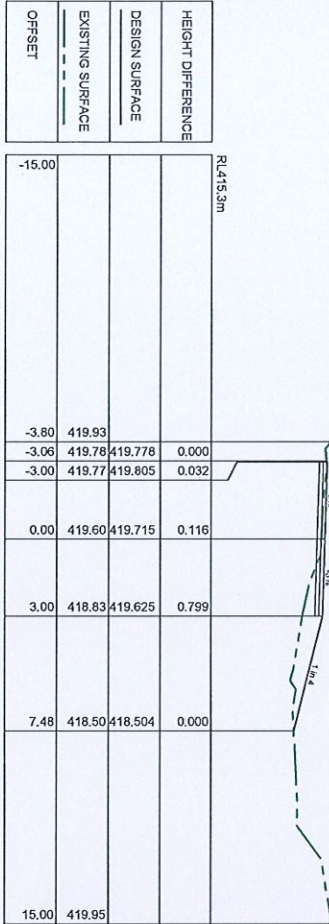
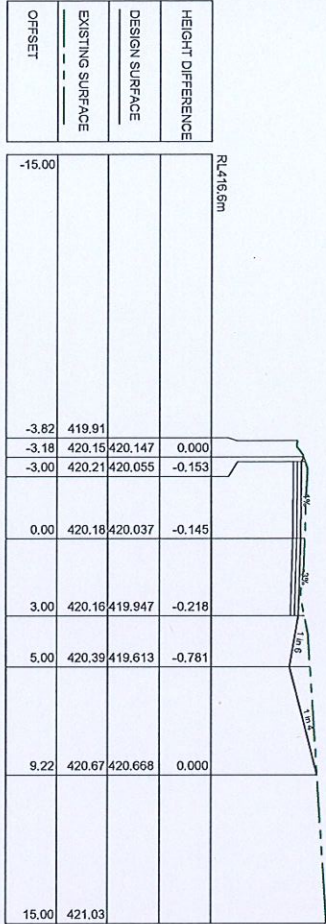
A. 100% DESIGN ISSUE - FOR APPROVAL	
Author	Approved
J.L.A.	29/04/2025
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TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
ROAD CROSS SECTIONS
FIRE ACCESS TRAIL - SHEET 3 OF 6
CHEWKO ROAD & 287 MIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

FOR APPROVAL LU23112-2-CD-407 A

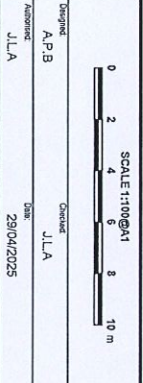
21/8/2025



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Author	Approved	Date	
J.L.A.	29/04/2025		

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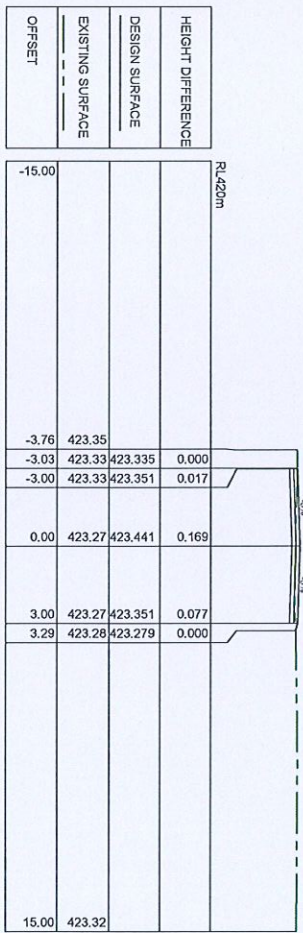
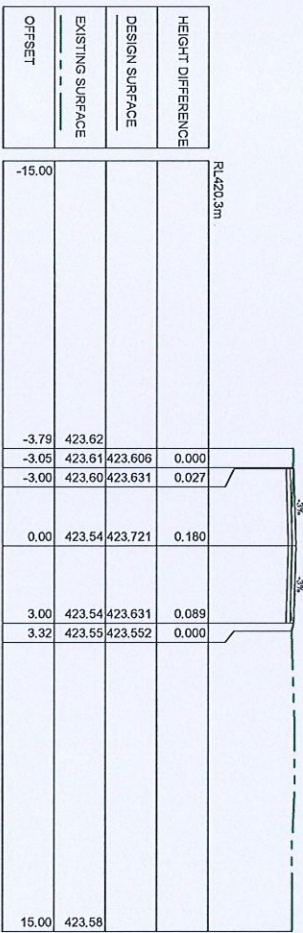
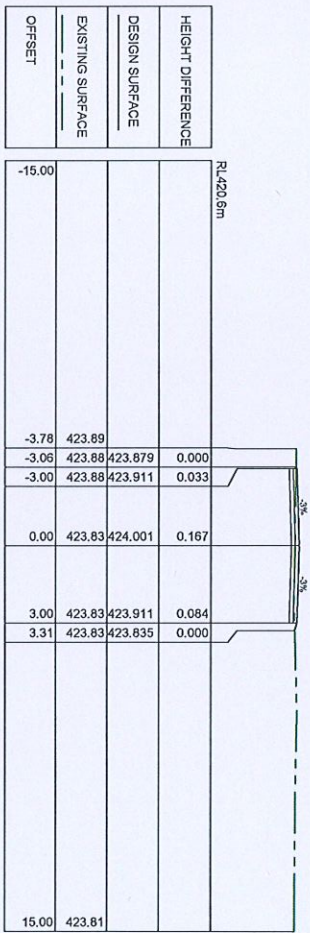
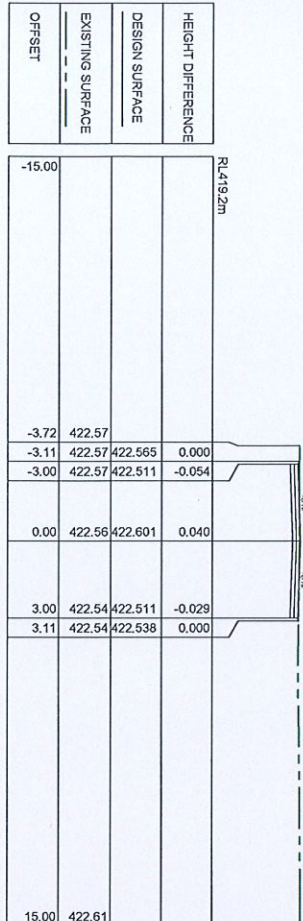
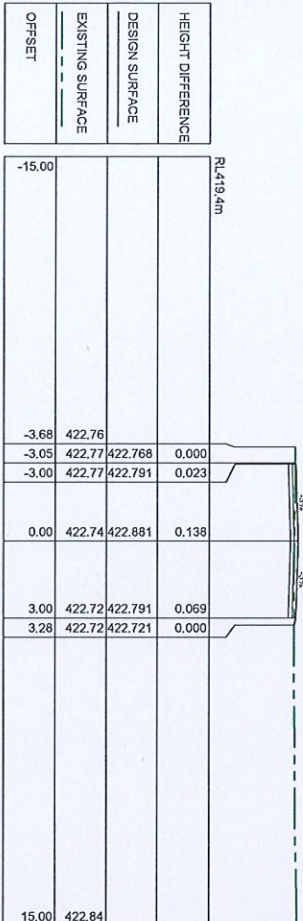
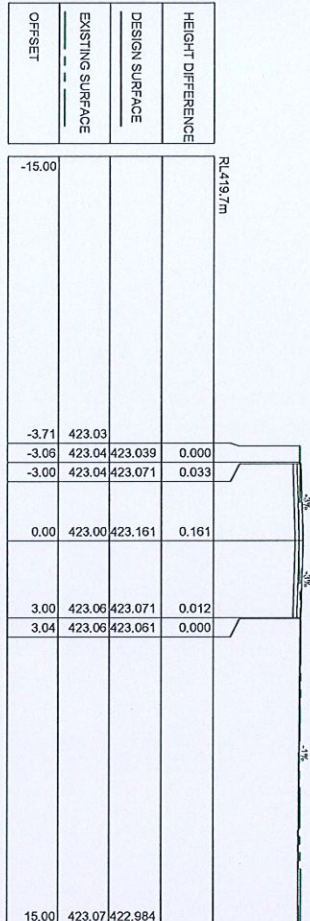
GRAPHIC COMMUNICATION
ARCHITECTURE & INTERIOR DESIGN
484 96 96 11 10



**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
ROAD CROSS SECTIONS
FIRE ACCESS TRAIL - SHEET 4 OF 6
CHEWMO ROAD & 267 MOVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL**

FOR APPROVAL LUT3112-2-CD-408 A

Handwritten signature and date:
21/8/2025



100% DESIGN ISSUE - FOR APPROVAL

Author: J.L.A. 29/04/2025

Approved: J.L.A. 29/04/2025

Drawn: J.L.A. 29/04/2025

Check: J.L.A. 29/04/2025

Scale: 1:100

Sheet: 5 OF 6

Project: TWO RIVERS COMMUNITY SCHOOL STAGE 1 & 2 - INTERNAL CIVIL WORKS

Location: CHEWMO ROAD & 287 MOVER ROAD, MAREEBA QLD

On Behalf Of: TWO RIVERS COMMUNITY SCHOOL

For Approval: LU23112-2-CD-409 A



SCALE 1:100

0 2 4 6 8 10 m

Original: A.P.B.

Revised: J.L.A.

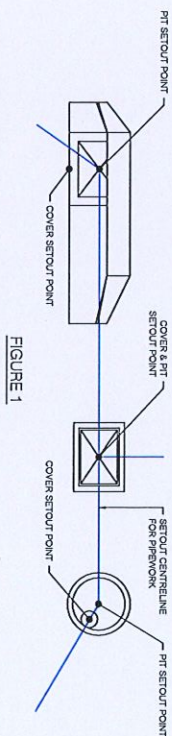
Date: 29/04/2025

B.202

21/8/2025

DRAINAGE PIT SCHEDULE

Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
1A	WEDGEMAL DOWNT	375	-	375	419.137	0.879	419.818	30906.418	8117306.418	30906.418	8117306.418	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
1B	FIELD INLET PT (GRAVEL)	600	300	375	419.941	300	419.971	0.912	420.483	30906.712	8117306.601	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1C	FIELD INLET PT (GRAVEL)	600	300	300	421.290	300	421.771	1.274	422.964	30906.071	8117303.464	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1D	FIELD INLET PT (GRAVEL)	600	300	300	421.685	300	421.861	1.155	423.101	30906.614	8117302.469	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1E	FIELD INLET PT (GRAVEL)	600	300	300	421.914	300	421.944	0.049	422.300	30907.171	8117314.418	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1F	FIELD INLET PT (GRAVEL)	600	300	300	422.014	300	422.044	0.049	423.000	30907.771	8117312.603	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1G	FIELD INLET PT (GRAVEL)	600	300	300	422.119	300	422.149	0.012	423.071	30906.919	8117306.504	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1H	FIELD INLET PT (GRAVEL)	600	300	300	422.216	225	422.246	0.044	422.880	30908.071	8117291.146	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1I	FIELD INLET PT (GRAVEL)	600	300	225	422.316	225	422.346	0.082	423.000	30906.619	8117298.603	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1J	FIELD INLET PT (GRAVEL)	600	300	225	422.341	225	422.371	0.049	423.000	30906.619	8117298.347	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
1K	FIELD INLET PT (GRAVEL)	600	300	225	422.480	0.660	423.101	10.903.312	8117298.119	30907.312	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED	
2A	FIELD INLET PT (GRAVEL)	600	300	300	421.460	0.110	422.150	30907.771	8117316.671	30907.771	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED	
3A	FIELD INLET PT (GRAVEL)	600	300	150	422.400	0.080	423.000	30906.912	8117313.969	30906.912	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED	
4A	FIELD INLET PT (GRAVEL)	600	300	225	422.271	0.020	422.902	30906.715	8117305.315	30906.715	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED	
5A	WEDGEMAL DOWNT	375	-	375	421.558	0.973	422.351	30907.771	8117301.179	30907.771	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)	
5B	FIELD INLET PT (GRAVEL)	600	300	375	422.078	375	422.108	1.121	423.199	30906.469	8117306.371	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
5C	FIELD INLET PT (GRAVEL)	600	300	375	422.310	375	422.340	1.037	423.346	30906.619	8117303.340	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
5D	FIELD INLET PT (GRAVEL)	600	300	375	422.504	375	422.534	1.037	423.571	30907.771	8117312.398	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
5E	FIELD INLET PT (GRAVEL)	600	300	375	422.710	375	422.740	1.067	423.800	30907.461	8117308.471	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
5F	WEDGEMAL DOWNT	375	375	375	422.884	300	422.914	1.017	423.310	30906.215	8117302.112	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
5G	FIELD INLET PT (GRAVEL)	600	300	300	422.660	300	422.690	0.047	423.110	30906.617	8117301.666	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
6A	WEDGEMAL DOWNT	375	375	375	422.310	300	422.330	1.043	423.353	30906.619	8117302.666	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
6B	WEDGEMAL DOWNT	375	375	375	422.310	300	422.330	1.043	423.353	30906.619	8117302.666	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
7A	FIELD INLET PT (GRAVEL)	600	300	150	422.504	0.052	423.101	30907.461	8117312.398	30907.461	8117312.398	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
8A	FIELD INLET PT (GRAVEL)	600	300	150	422.504	0.052	423.101	30907.461	8117312.398	30907.461	8117312.398	NON EXHAUSTING OR APPROVED DOWNSIDE PROTECTIVE FLOWMETER PER PROVIDE CLASS D PHYSICAL/LID DRAINT. - NO STEP FROM REQUIRED
9A	WEDGEMAL DOWNT	1100	550	450	419.137	0.879	419.818	30906.418	8117306.418	30906.418	8117306.418	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
9B	WEDGEMAL DOWNT	1100	550	450	419.137	0.879	419.818	30906.418	8117306.418	30906.418	8117306.418	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
10A	WEDGEMAL DOWNT	2400	-	2400	417.151	1.004	417.151	30906.461	8117298.471	30906.461	8117298.471	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)
10B	WEDGEMAL DOWNT	2400	-	2400	417.151	1.004	417.151	30906.461	8117298.471	30906.461	8117298.471	REFERS TO INDOOR STANDING DRAWING, CONSULT SEE DWG. 11120001 AND ANNOT. STAIRS FOR FURTHER DETAILS. MINIMUM LENGTH TO BE MIN. IN ORDER MINIMUM 3000MM MINIMUM INLET OR BASE OF EXHAUSTED AREA UNDER EXHAUSTS TO PREVENT SCALDS. (LARGE STYL AT 15m LENGTH)



B. n. 
21/8/2025

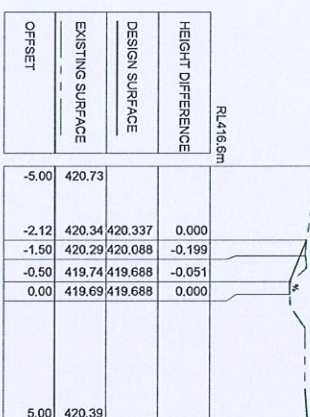


Lekker Urban.

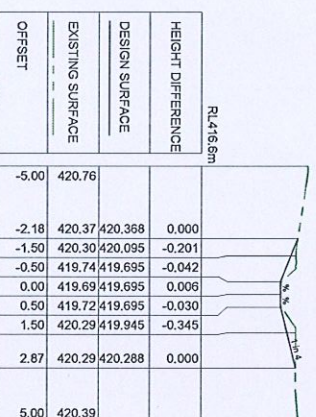
Designed:	Checked:
A.P.B	J.L.A
Authorised:	Date:
J.L.A	29/04/2025

FOR APPROVAL LUT3112-2-CD-603

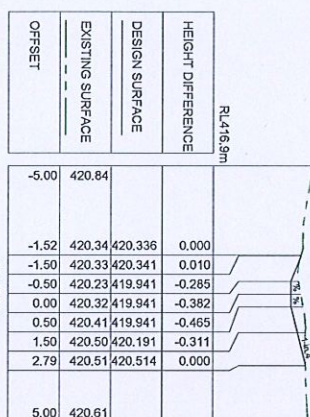
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-0.50	420.66	420.188	-0.474
0.00	420.67	420.188	-0.487
0.50	420.67	420.188	-0.479
1.50	420.65	420.438	-0.213
2.12	420.59	420.594	0.000
5.00	420.59		



OFFSET	EXISTING SURFACE	DESIGN SURFACE	HEIGHT DIFFERENCE
			RL417.4m
-5.00	421.32		
-2.60	421.27	421.273	0.000
-1.50	421.23	420.834	-0.393
-0.50	421.14	420.434	-0.703
0.00	421.16	420.434	-0.731
0.50	421.20	420.434	-0.761
1.50	421.12	420.684	-0.441
5.00	420.75	421.534	



HEIGHT DIFFERENCE	DESIGN SURFACE	EXISTING SURFACE	OFFSET
-5.00	421.62		
-2.84	421.62	421.618	0.000
-1.50	421.66	421.081	-0.775
-0.50	421.74	420.681	-1.059
0.00	421.74	420.681	-1.064
0.50	421.75	420.681	-1.068
1.50	421.72	420.931	-0.789
5.00	421.26	421.562	

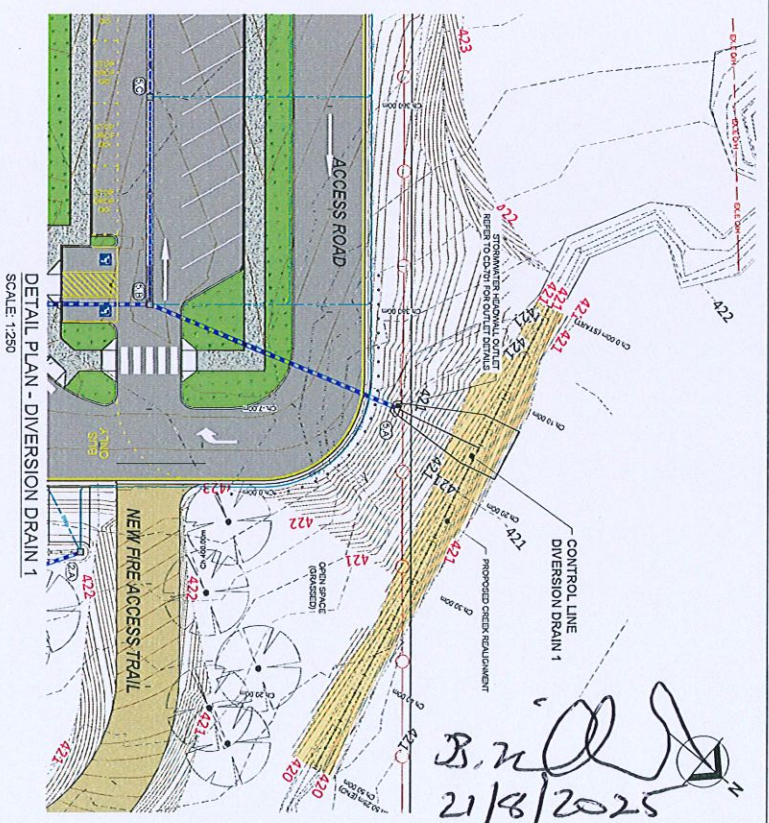
CL DIVERSION DRAIN ↑CL DIVERSION DRAIN 4

Ch 50.28 m
CL DIVERSION DRAIN

Ch 50.00 m
CL DIVERSION DRAIN

CL DIVERSION DRAIN

R _L = +73.600														
HORIZONTAL GEOMETRY AT INVERT (CENTRELINE)		B = 73.55'36"												
		L = 20												
		B = 8'9"48"												
HEIGHT DIFFERENCE (m)	+0.00	-0.41	-1.06	-0.88	-0.73	-0.57	-0.48	-0.41	-0.40	-0.38	-0.38	-0.54	+0.00	+0.00
DESIGN LEVELS AT INVERT (CENTRELINE)	420.927	420.804	420.681	420.557	420.434	420.311	420.188	420.064	420.047	420.028	419.941	419.818	419.695	419.688
EXISTING LEVELS AT INVERT (CENTRELINE)	420.93	421.21	421.74	421.44	421.16	420.88	420.67	420.47	420.45	420.41	420.32	420.36	419.69	419.68
CONTROL LINE CHANGE (AT CENTRE LINE CHAINAGE)	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	35.696	36.480	40.000	45.000	50.000	50.782



B. N. [Signature]
21/8/2025

LONGITUDINAL SECTION - DIVERSION DRAIN 1 (CENTRELINE) - Ch 0.0m to Ch 50.282m

V: 1:100

DETAIL PLAN - DIVERSION DRAIN 1
SCALE: 1:250

SCALE: 1:250

[illegible]

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**Lekk
Urban**

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OWYM WYKAZEM (CZAPKA) 400 55 55 55

Designed: A.P.B. Checked: J.L.A.

Authorised: J.L.A. Date: 29/04/2025

0 5 10 15 20 25 m

SCALE 1:250 @ A1

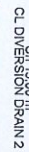
**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
DETAIL LAYOUT PLAN & SECTIONS
DIVERSION DRAIN 1**
CHEWMO ROAD & 287 MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL

FOR APPROVAL

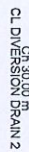
LU23112-2-CD-604 A

DRAWING NUMBER: RCV

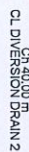
OFFSET	EXISTING SURFACE	DESIGN SURFACE	HEIGHT DIFFERENCE	R/415.8m
-5.00	419.81			
-3.45	419.83	419.828	0.000	
-1.50	419.83	419.047	-0.782	
-0.50	419.80	418.647	-1.152	
0.00	419.73	418.647	-1.087	
0.50	419.61	418.647	-0.959	
1.50	419.35	418.897	-0.452	
2.60	419.17	419.172	0.000	
5.00	418.99	419.610		



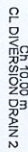
HEIGHT DIFFERENCE
DESIGN SURFACE
EXISTING SURFACE
OFFSET



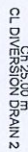
HEIGHT DIFFERENCE
DESIGN SURFACE
EXISTING SURFACE
OFFSET



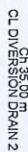
HEIGHT DIFFERENCE
DESIGN SURFACE
EXISTING SURFACE
OFFSET



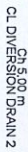
HEIGHT DIFFERENCE	
DESIGN SURFACE	
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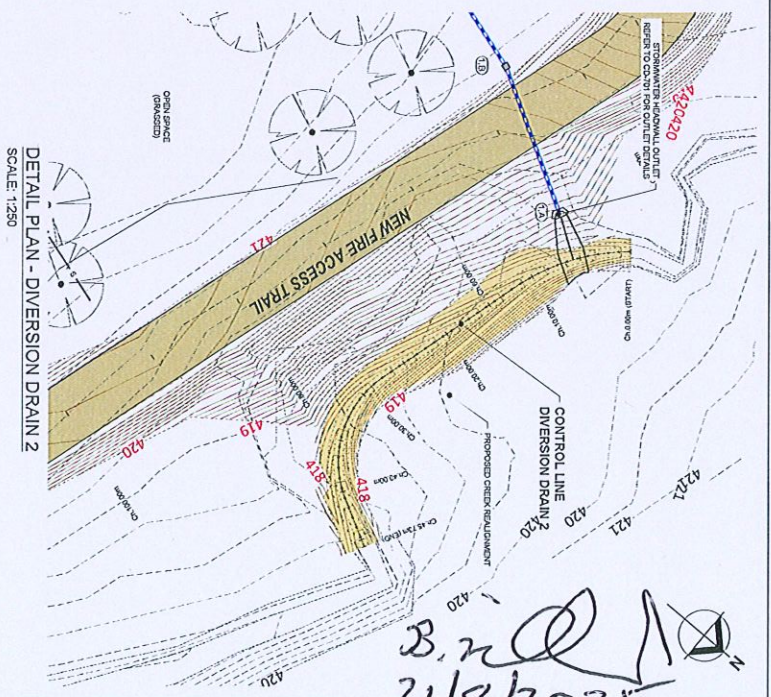
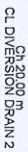
HEIGHT DIFFERENCE
DESIGN SURFACE
EXISTING SURFACE
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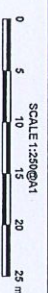
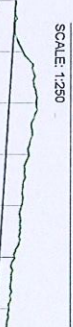
HEIGHT DIFFERENCE
DESIGN SURFACE
EXISTING SURFACE
OFFSET



HEIGHT DIFFERENCE	
DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	



R.L. 413.600			
HORIZONTAL GEOMETRY AT INVERT (CENTRELINE)	HEIGHT DIFFERENCE (m)	L=26 B=5'55.05"	
		L=1 B=7'09.48"	L=14 B=7'09.48"
DESIGN LEVELS AT INVERT (CENTRELINE)	420.927	420.804	
EXISTING LEVELS AT INVERT (CENTRELINE)	420.93	421.21	
CONTROL LINE CHAINAGE AT INVERT (CENTRELINE)	0.000	5.000	10.000
		15.000	20.000
		25.000	30.000
		35.000	35.696
		36.480	40.000
		45.000	50.282
			50.000
			50.282

[illegible]

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**Lekker
Urban.**

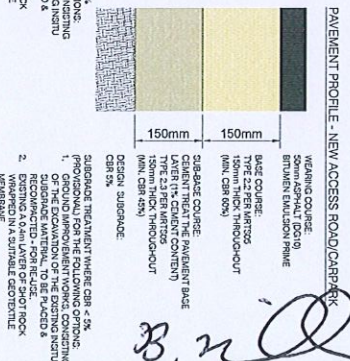
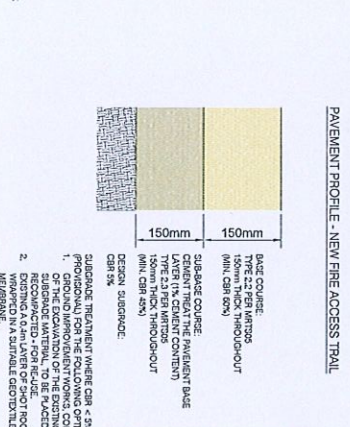
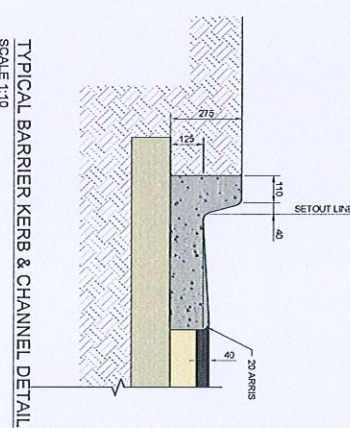
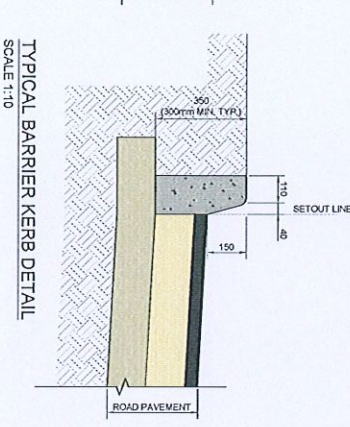
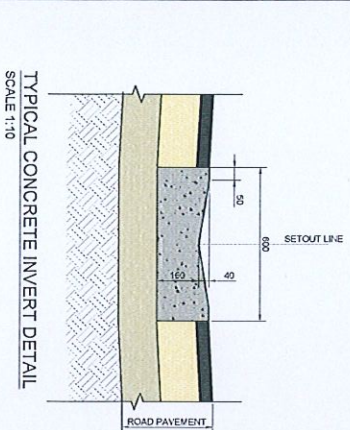
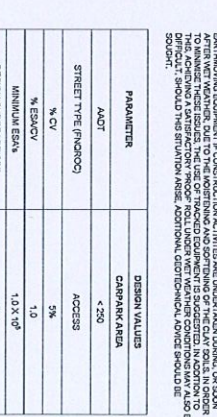
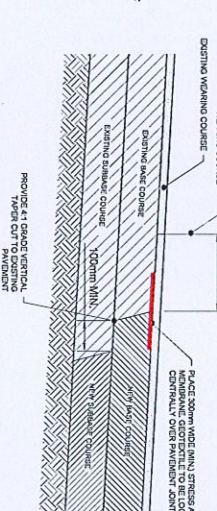
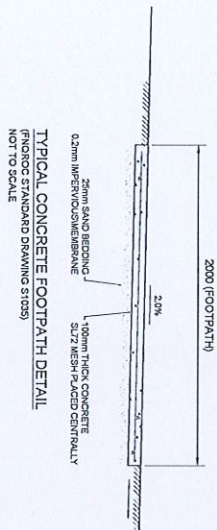
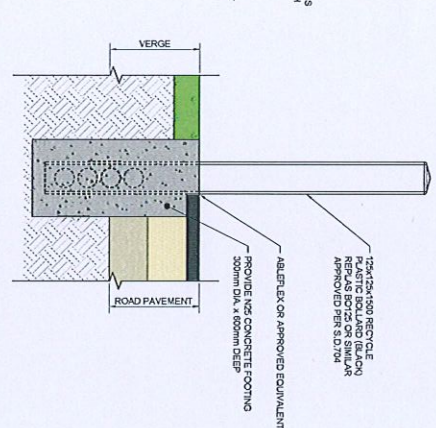
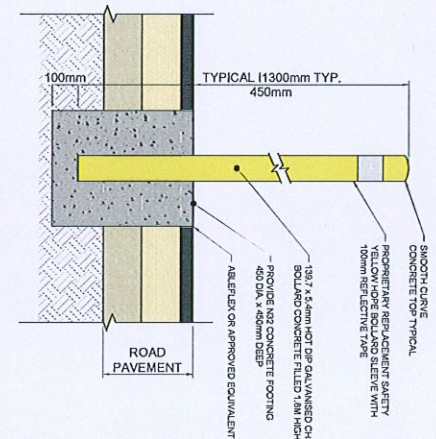
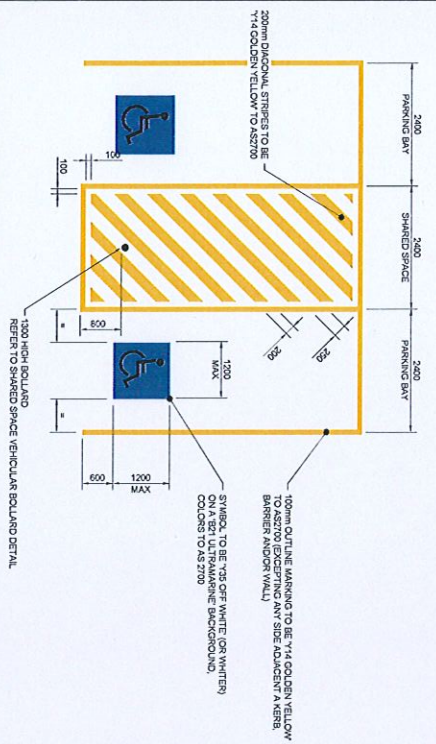
Designator	Conc'd
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Author's	Date
J.L.A	29/04/2025

**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
DETAIL LAYOUT PLAN & SECTIONS
DIVISION DRAIN 2
CHEMCO ROAD & 287 MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL.**

FOR APPROVAL

DRAWING NUMBER: **LU23112-2-CD-605 A**

REV:



1	100% PERSON ISSUE, 1 FOR APPROPRIAL	1	20/04/2025
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**Lækker
Urban.**

LEKKE DESIGNER TIL DINE TREKKE
GÅRDE OG HÅNDVÆRKS
MØBLER OG KØKKEN
MØBLER

Designed	Checked
A.P.B	J.L.A
Authoritative	Date
J.L.A	29/04/2025

**TWO RIVERS COMMUNITY SCHOOL
STAGE 1 & 2 - INTERNAL CIVIL WORKS
TYPICAL CONSTRUCTION DETAILS
SHEET 1 OF 2**

**CHEMHO ROAD & 26th MCIVER ROAD, MAREEBA QLD
ON BEHALF OF TWO RIVERS COMMUNITY SCHOOL.**

FOR APPROVAL

DRAWING NUMBER: **LU23112-2-CD-700 A**

REV:

Lekker Urban.

B. n. Q
21/8/2025

NOTES

- [illegible]

PARAMETER	DESIGN VALUES CARPARK AREA
AADT	< 250
STREET TYPE (FM2000)	ACCESS
% CV	5%
% EBV/CV	1.0
MINIMUM EBV/s	1.0 x 10 ³
DESIGN SUBGRADE COR	5%

PAVEMENT PROFILE - NEW ACCESS ROAD/CARPARK

WEARING COURSE:
50mm ASPHALT (D0.10)

BASE COURSE:
TYPE 2.2 PER VERTICES
150mm THICK THRU-OUT
(N/A, CSR 60%)

150mm

DUE-BASE COURSE:
TYPE 2.3 PER VERTICES
150mm THICK THRU-OUT
(N/A, CSR 45%)

150mm

CONCRETE: RAINFALL BASE
LAYER (1% COJUNT COJUNT)
150mm THICK THRU-OUT
(N/A, CSR 45%)

B. n

1. DISCARD TREATMENT WHERE CBR < 5%
 2. EXISTING A 0.4 IN. LAYER OF SPOT TREAT
 MEMPRAPEL, A SODIUM GLYCOLATE
 RECOMBACENT - FOR RE-USE.
 3. DISCARD MATERIAL TO BE PLACED &
 RECOMBACENT WORKS. CONSTRUCTING
 CROUD, IMPROVEMENT WORKS. CONSTRUCTING
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