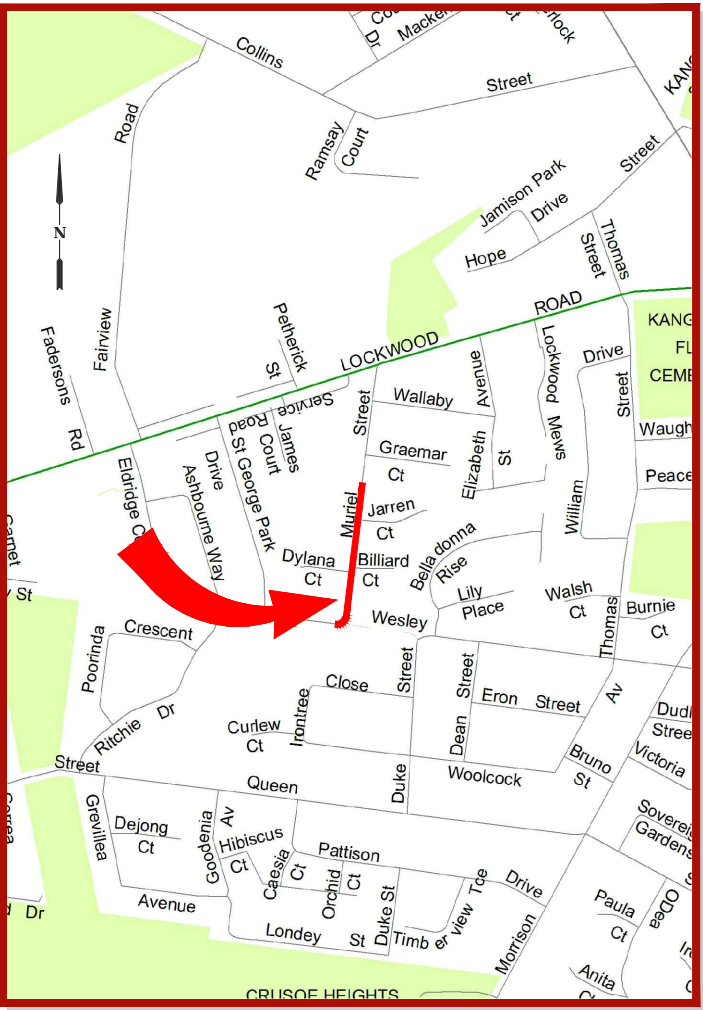


MURIEL STREET KANGAROO FLAT

GB5118

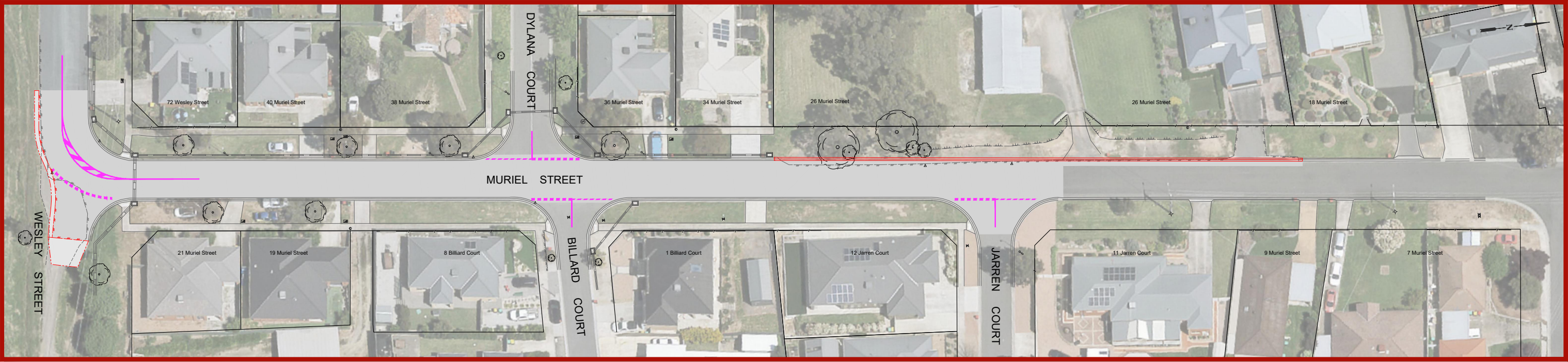
ROAD RECONSTRUCTION

APRIL 2023




LOCALITY MAP

DOCUMENT CONTROL				
SHEET No.	SHEET DESCRIPTION.	05/04/23	xx/xx/23	xx/xx/23
		DRAFT	TENDER	CONSTRUCTION
		REVISION	REVISION	REVISION
1	COVER SHEET	-	-	-
2	GENERAL NOTES & TYPICAL PAVEMENT	-	-	-
3	GEOMETRIC LAYOUT & CONTROL	-	-	-
4 - 6	DETAIL LAYOUT	-	-	-
7 - 9	LONGITUDINAL SECTION	-	-	-
10 - 12	CROSS SECTIONS	-	-	-
13	SETOUT	-	-	-



PROJECT EXTENTS

	PROJECT PLANNING REQUIREMENTS				 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS			PROJECT TITLE		SHEET DETAILS			
	Item	Required	Comments	Contractor		Surveyor	H. WHYTOCK	FEB. 2023	Location: MURIEL STREET KANGAROO FLAT Suburb: ROAD RECONSTRUCTION Reference: GB5118	COVER SHEET	Sheet:	1 OF 13		
	Vegetation	No	-			Designer	L. OLIVER	MAR. 2023			Scale:	-	A3	
	RRV	No	-			Draft Checked	A. SMITH	xx/xx/23			Plot Date:05/04/2023 By:Leigh Oliver			
	CMA	No	-			Tender Approved	N. SARTORI	xx/xx/23						
	Planning Permit	No	-			PRELIMINARY DESIGN DRAFT 2			AMENDMENTS					
	Land Acquisition	No	-						Revision	Description		Approved by	Date	
	CHMP	No	-						-			-	-	
	Other	No	-						-			-	-	

CONSTRUCTION SPECIFICATIONS

All construction undertaken by, or on behalf of, The City of Greater Bendigo (CoGB) shall be undertaken in accordance with all DTP/Vicroads 200-700 series of Standard Specifications.

Compliance with the specifications to the satisfaction of the project Superintendent is required before a project can meet Practical Completion.

Sections of the DTP/Vicroads 200-700 series of standard specifications which are of particular relevance for this project include:

FORMATION

- 201 Site Clearing
- 204 Earthworks
- 205 Rock Fill

FLEXIBLE PAVEMENTS

- 304 Unbound Flexible Pavement Construction
- 310 Preparation of Granular Pavements for Bituminous Surfacing

ASPHALT AND SURFACE TREATMENTS

- 402 Removal of Pavement by Cold Planing (profiling)
- 407 Dense Graded Asphalt
- 408 Sprayed Bituminous Surfacing

INCIDENTAL CONSTRUCTION

- 701 Underground Stormwater Drains
- 703 General Concrete Paving
- 705 Drainage Pits and Covers
- 706 Installation or Replacement of Utility Infrastructure within Road Reserves
- 714 Sign Installation
- 721 Pavement Markings

MATERIAL SPECIFICATIONS

FOR WORKS DEPARTMENT

All materials used in construction projects undertaken by the CoGB Works department shall be compliant with the specifications setout in the relevant CoGB material panel supply contract.

Where panel supply contract information is not available, material specifications shall be sought from and supplied by the CoGB Engineering Department, and all materials used in construction must comply with those specifications.

FOR EXTERNAL CONSULTANTS (inc.consultants engaged by the Work Dept.)

All materials used by external contractors engaged to undertake CoGB construction projects, or components thereof, shall be as per the material specification supplied within the instrument of engagement (Quote, Tender or Contract), or as per written instruction from the project Superintendents.

PROJECT PLANNING REQUIREMENTS

Permits and approvals

- Project permits and approvals which were required to be obtained prior to construction are listed in the below table
- Construction activities must be compliant with all conditions within the listed permits and approvals.

PROJECT PLANNING REQUIREMENTS			
Item	Required	Comments	Contractor
Vegetation	No	-	
RRV	No	-	
CMA	No	-	
Planning Permit	No	-	
Land Acquisition	No	-	
CHMP	No	-	
Other	No	-	

GENERAL NOTES

STANDARD DRAWINGS

Standard Drawings that are referenced within the design drawings are noted as 'SD', and are sourced from 3 locations. They are available for download online or from the project superintendent:

- 'CoGB SD' are sourced from the City of Greater Bendigo
<https://www.bendigo.vic.gov.au/Services/Roads-and-Drainage/Roads/Construction-standards>
- 'IDM SD' are sourced from the Infrastructure Design Manual
<https://www.designmanual.com.au/>
- 'Vicroads SD' are sourced from Vicroads
<https://www.vicroads.vic.gov.au/business-and-industry/technical-publications/technical-drawings-for-roadworks/standard-drawings-for-roadworks>

SERVICES SHOWN ON PLANS AND DURING CONSTRUCTION

- The location of underground services shown on design drawings have been derived from available information. Accuracy can not be guaranteed and should therefore be treated as indicative only.
- Gas and water property services are not located or shown on design drawings. It is the contractors responsibility to locate and alter these services as required to achieve the project design.
- Prior to undertaking construction activities, exact service locations must be arranged and marked onsite.
- The contractor will be held responsible for any damage caused to services.
- All service pit lids or valve covers within the works area are to be raised or lowered to match the design surface level to the relevant authority standards, unless noted otherwise on the construction plans, or by approval from the superintendent.
- Any service authority marker post found within the works area is to be relocated adjacent to their current position to a point 150mm offset from the nearest property boundary.
- Any PSM covers affected during works are to be renewed to CoGB SD293 unless noted otherwise, or by approval from the superintendent.

DRAINAGE

- Any private storm water pipes discovered during works are to be plumbed to the nearest CoGB drainage pit, or with approval from the superintendent, to the nearest kerb or pipe

CONSTRUCTION MANAGEMENT GUIDANCE

OCCUPATIONAL HEALTH AND SAFETY

Delivery units shall consider appropriate management of occupational health and safety, and develop management plans compliant with ISO45001, and the City of Greater Bendigo integrated management system prior to any works beginning onsite

SITE ENVIRONMENTAL MANAGEMENT PLAN

A Site Environmental Management Plan (SEMP) is to be developed by delivery units to manage the project site during the project delivery window. Consideration shall be given to appropriate management of the following, with a SEMP plan filled out and displayed onsite at all times:

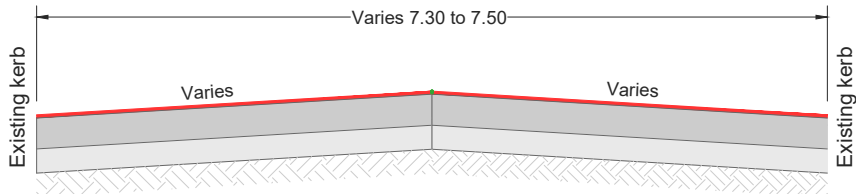
- Communication and induction for staff, contractors and sub contractors
- Communication with appropriate adjacent residents/businesses
- Noise and Vibration
- Dust and contamination
- Chemicals
- Erosion and sediment
- Waste
- Vehicle and roadside management
- Vegetation, with particular focus on any relevant permit conditions and AS4970
- Heritage, with particular focus on any relevant permit conditions

TRAFFIC MANAGEMENT PLAN

Where appropriate and prior to any works starting on site, delivery units must organise a AS1742.3 compliant traffic management plan, and have it approved by the relevant road authority.

TYPICAL ROAD SECTION - PAVEMENT TYPE A

NOT TO SCALE

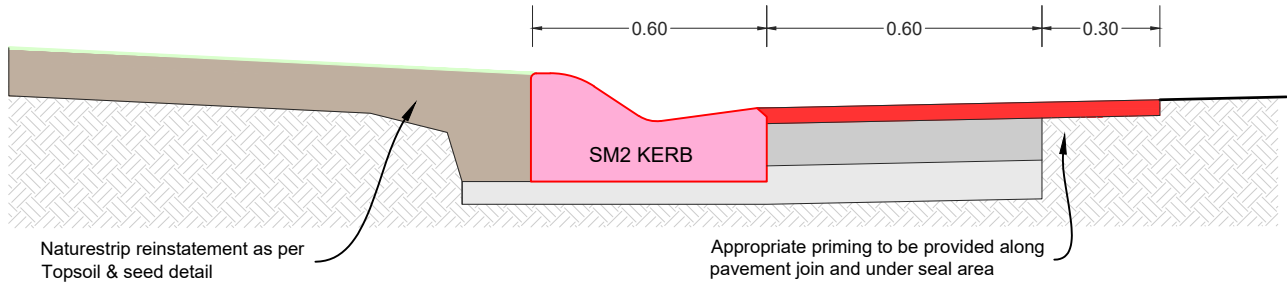


PAVEMENT TYPE A			
KEY	LAYER	DEPTH	THICKNESS
	Asphalt (w)	40mm	Size 14 Type H (C320)
	Base	130mm	CL1 FCR 20mm compacted to 99%MMDD at 85%OMC +/- 1%
	Sub Base	120mm	CL3 FCR 20mm compacted to 99%MMDD at 85%OMC +/- 1%
	Subgrade **		Compacted to 98%SMDD at 85%OMC +/- 3%
		290mm	

** Existing material to be compacted to a min. density ratio of 98% standard max. dry density and proof rolled. Excessive soft areas that do not improve under compaction to be removed and replaced with approved select fill achieving min. CBR 10.

TYPICAL KERB AND WIDENING SECTION - PAVEMENT TYPE A

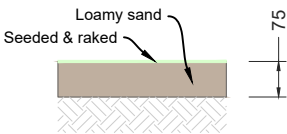
NOT TO SCALE



TYPICAL LANDSCAPE SECTIONS

NOT TO SCALE

TOPSOIL AND SEED



CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor	H. WHYTECK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 2**

PROJECT TITLE

Location: MURIEL STREET
Suburb: KANGAROO FLAT
Works: ROAD RECONSTRUCTION
Reference: GB5118

SHEET DETAILS

GENERAL NOTES &
TYPICAL PAVEMENT

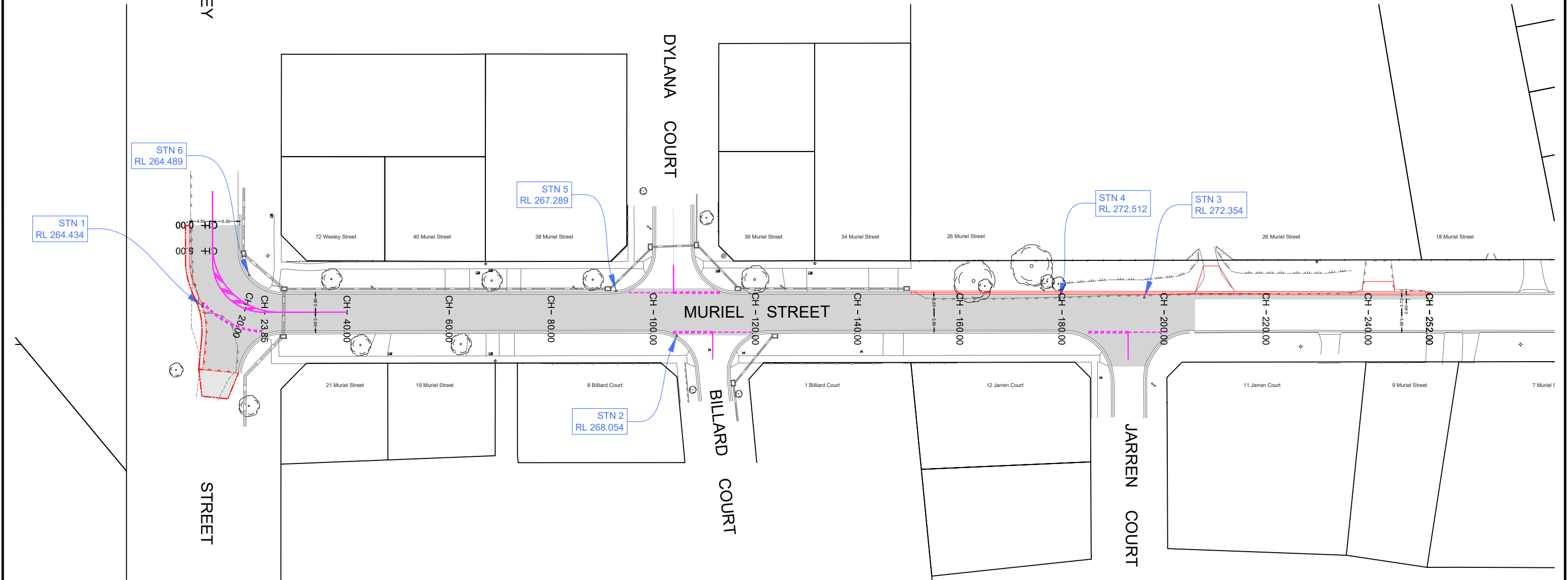
Sheet: 2 OF 13

Scale: - A3

Plot Date:05/04/2023 By:Leigh Oliver

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-

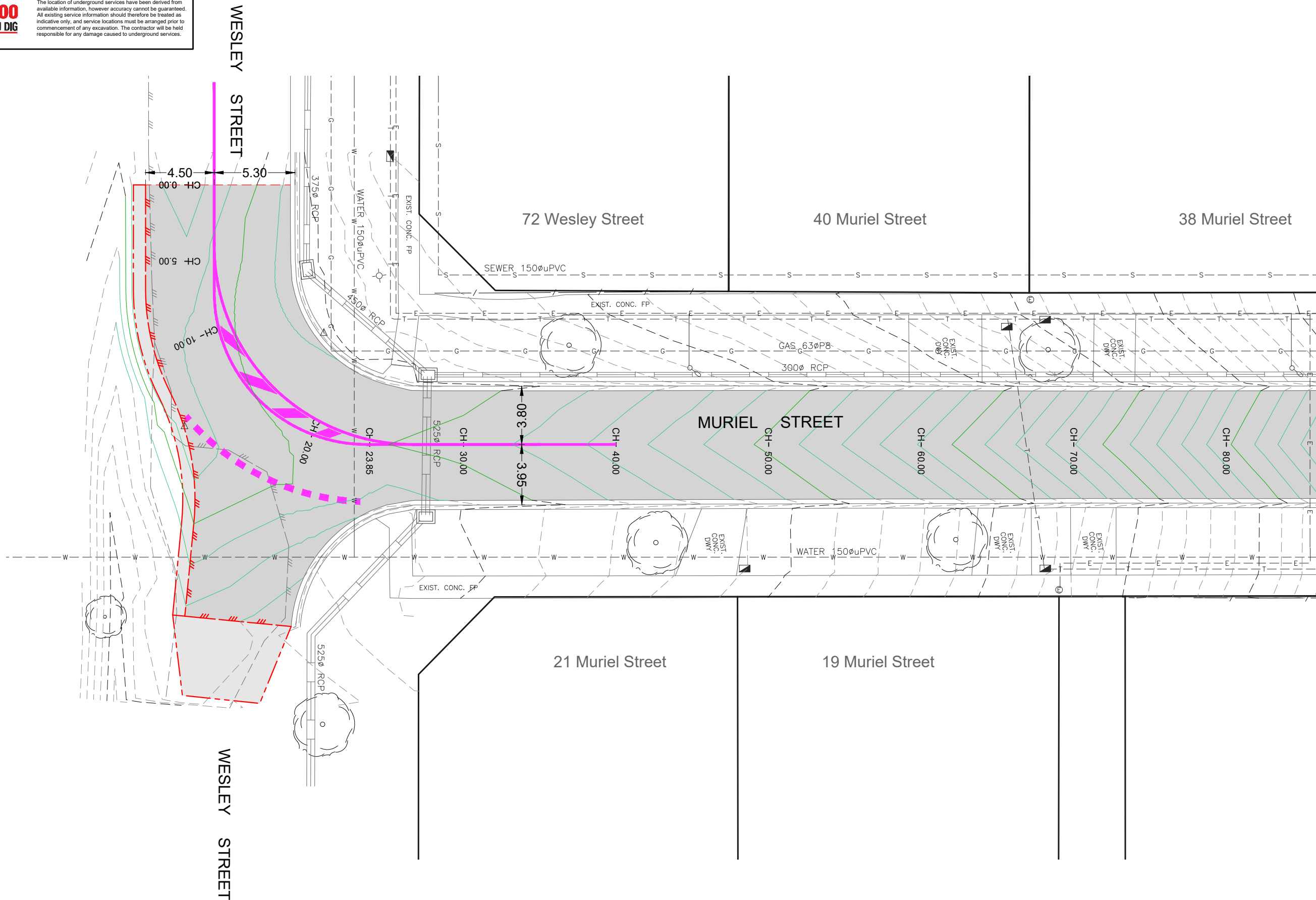
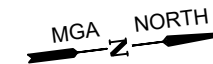


STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1	252980.009	5923599.749	264.434
902	STN 2	252997.280	5923691.161	268.054
903	STN 3	253001.207	5923782.969	272.354
904	STN 4	252999.529	5923766.420	272.512
905	STN 5	252987.057	5923680.454	267.289
906	STN 6	252975.080	5923609.566	264.489



DIAL1100
BEFORE YOU DIG

IMPORTANT!
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.



LEGEND

DESIGN CONTOURS - Levels to AHD (0.10m interval)	Asphalt Driveway area: 100mm depth CL3 FCR, 40mm asphalt.	Concrete Driveway area: Normal plain Dwy as per IDM SD240	Driveway area: 50mm depth road base gravel 20mm size.
EXISTING CONTOURS - Levels to AHD (0.10m interval)	Sawcut	Existing tree to be removed	Landscape work: topsoil and seed
Concrete Kerb area: Normal plain Kerb per IDM SD100 & CoGB SD190,191,192	Road Pavement: As per typical detail pg2	Landscape work: Proposed Tree Plant as directed by CoGB Parks	Landscape work: Mulched areas (Refer: Typical details pg 2)



PROJECT DESIGN STATUS

Surveyor	H. WHYTOK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 2**

PROJECT TITLE

Location: **MURIEL STREET**
Suburb: **KANGAROO FLAT**
Works: **ROAD RECONSTRUCTION**
Reference: **GB5118**

SHEET DETAILS

DETAIL LAYOUT

Sheet: **4 OF 13**

Scale: **1:250** **A3**

Plot Date:05/04/2023 By:Leigh Oliver

AMENDMENTS

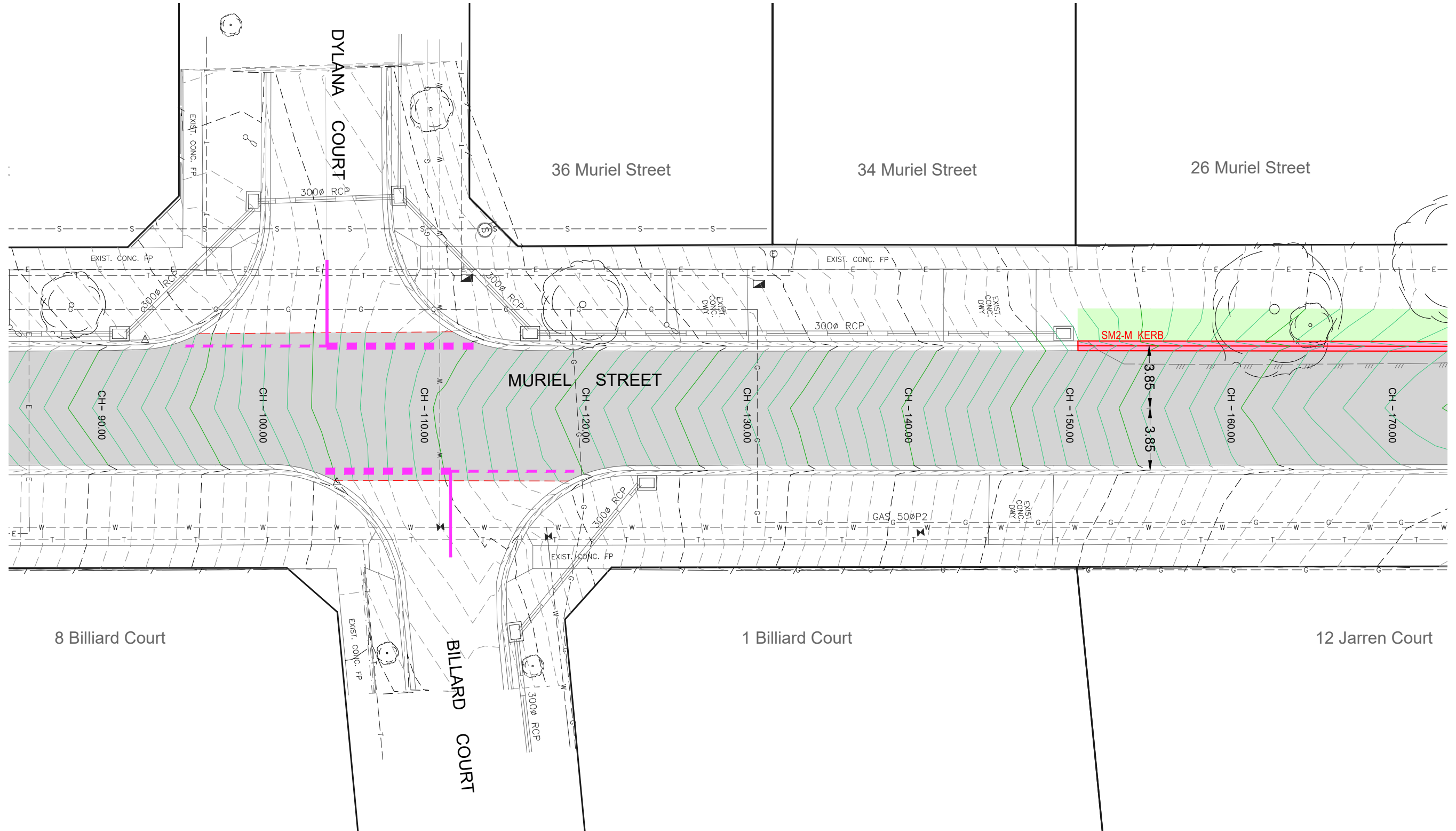
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



DIAL 1100
BEFORE YOU DIG

IMPORTANT!
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.

MGA NORTH



LEGEND

DESIGN CONTOURS - Levels to AHD (0.10m interval)	Asphalt Driveway area: 100mm depth CL3 FCR, 40mm asphalt.	Concrete Driveway area: Normal plain Dwy as per IDM SD240	Driveway area: 50mm depth road base gravel 20mm size.
EXISTING CONTOURS - Levels to AHD (0.10m interval)	Sawcut	Existing tree to be removed	Landscape work: topsoil and seed
Concrete Kerb area: Normal plain Kerb per IDM SD100 & CoGB SD190,191,192	Road Pavement: As per typical detail pg2	Landscape work: Proposed Tree Plant as directed by CoGB Parks	Landscape work: Mulched areas (Refer: Typical details pg 2)



CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor	H. WHYTECK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 2**

PROJECT TITLE

Location: **MURIEL STREET**
Suburb: **KANGAROO FLAT**
Works: **ROAD RECONSTRUCTION**
Reference: **GB5118**

SHEET DETAILS

DETAIL LAYOUT

Sheet: **5 OF 13**

Scale: **1:250** **A3**

Plot Date: 05/04/2023 By: Leigh Oliver

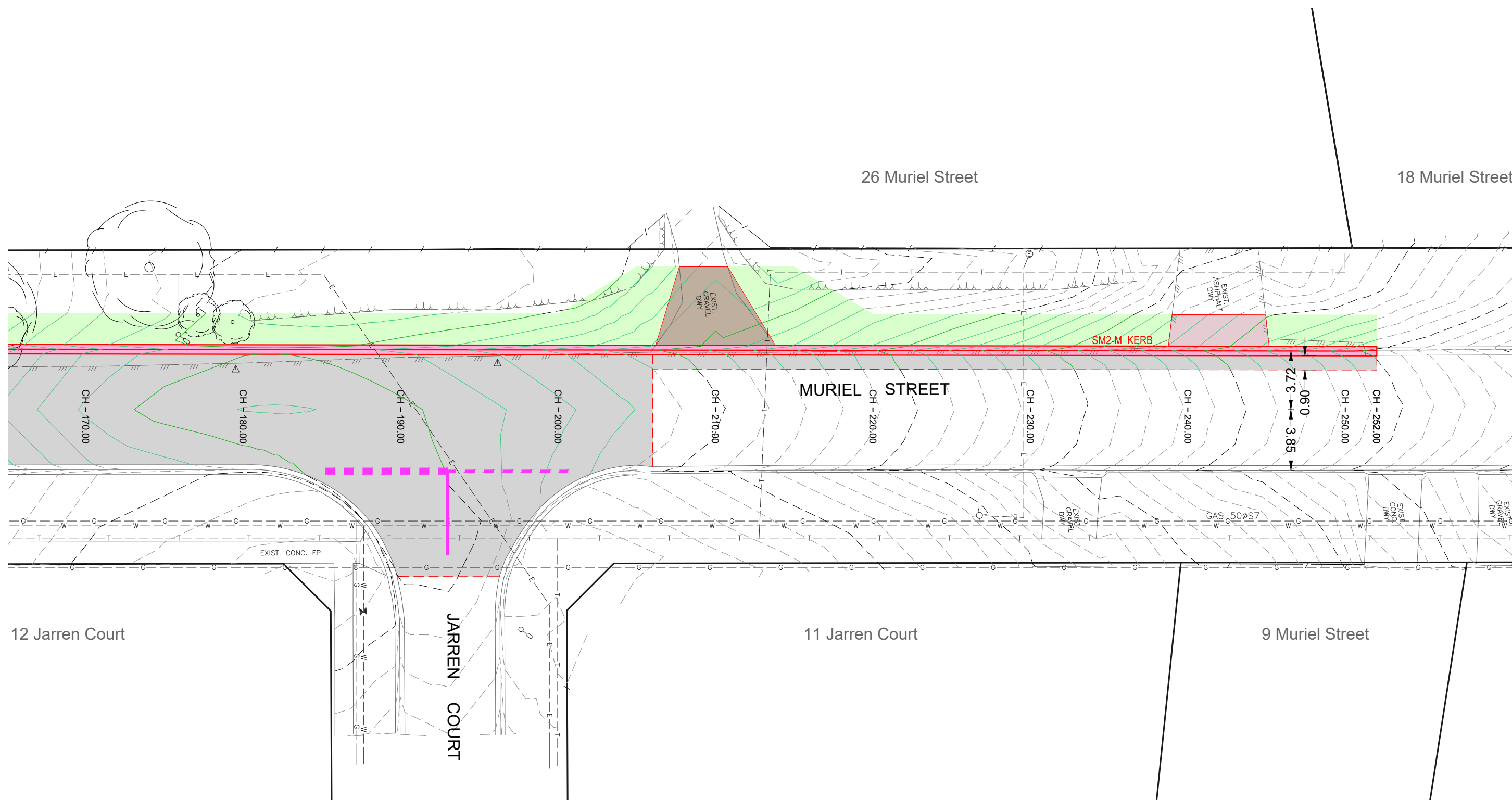
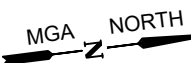
AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-















IMPORTANT!

The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.



LEGEND

- | | | | | | | | |
|--|--|---|---|---|---|--|---|
|  | DESIGN CONTOURS
- Levels to AHD (0.10m interval) |  | Asphalt Driveway area: 100mm depth CL3 FCR, 40mm asphalt. |  | Concrete Driveway area: Normal plain Dwy as per IDM SD240 |  | Driveway area: 50mm depth road base gravel 20mm size. |
|  | EXISTING CONTOURS
- Levels to AHD (0.10m interval) |  | Sawcut |  | Existing tree to be removed |  | Landscape work: topsoil and seed |
|  | Concrete Kerb area: Normal plain Kerb per IDM SD100 & CoGB SD190,191,192 |  | Road Pavement:
As per typical detail pg2 |  | Landscape work: Proposed Tree Plant as directed by CoGB Parks |  | Landscape work: Mulched areas (Refer: Typical details pg 2) |

CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor	H. WHYTOCK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 2**

PROJECT TITLE

Location:	MURIEL STREET
Suburb:	KANGAROO FLAT
Works:	ROAD RECONSTRUCTION
Reference:	GB5118

SHEET DETAILS

DETAIL LAYOUT

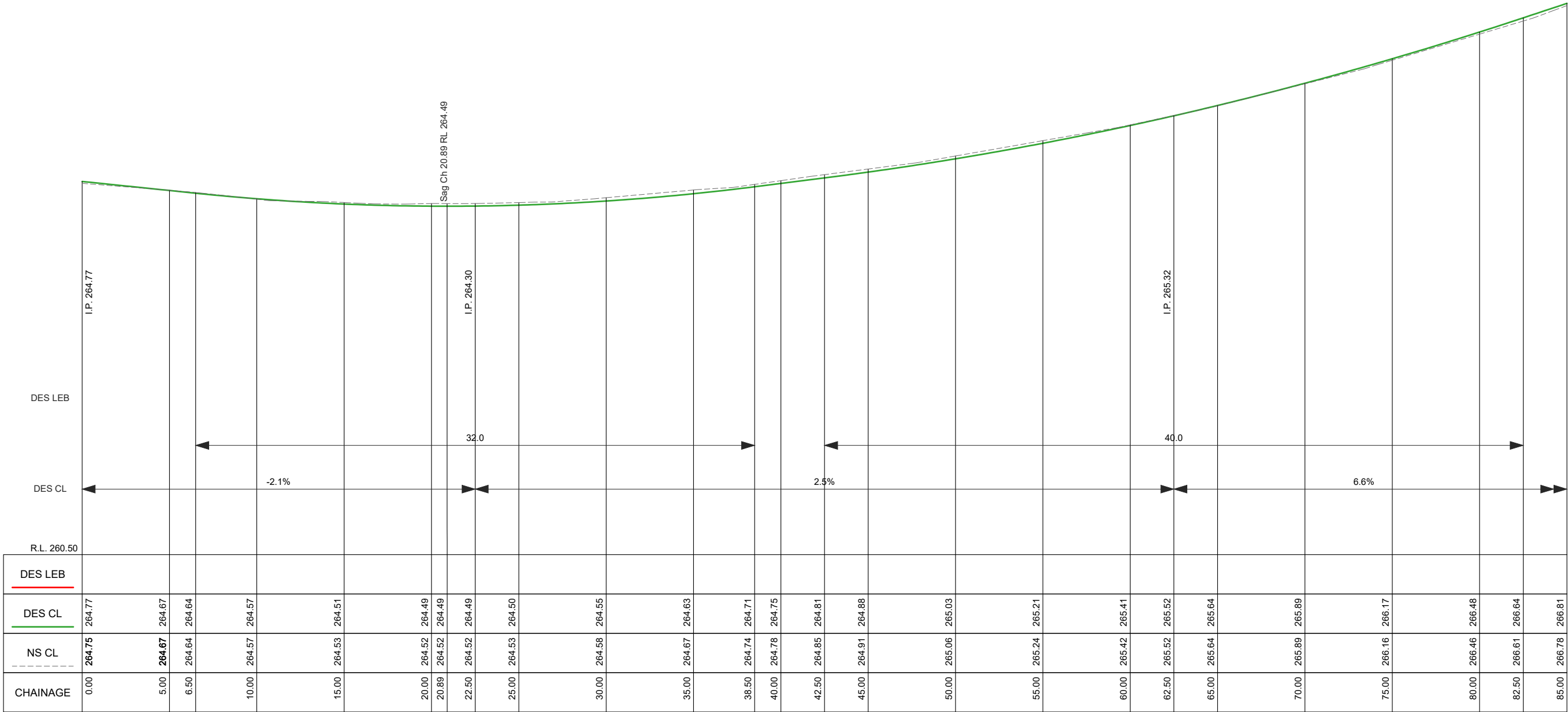
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Plot Date:05/04/2023 By:Leigh Oliver

AMENDMENTS

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-



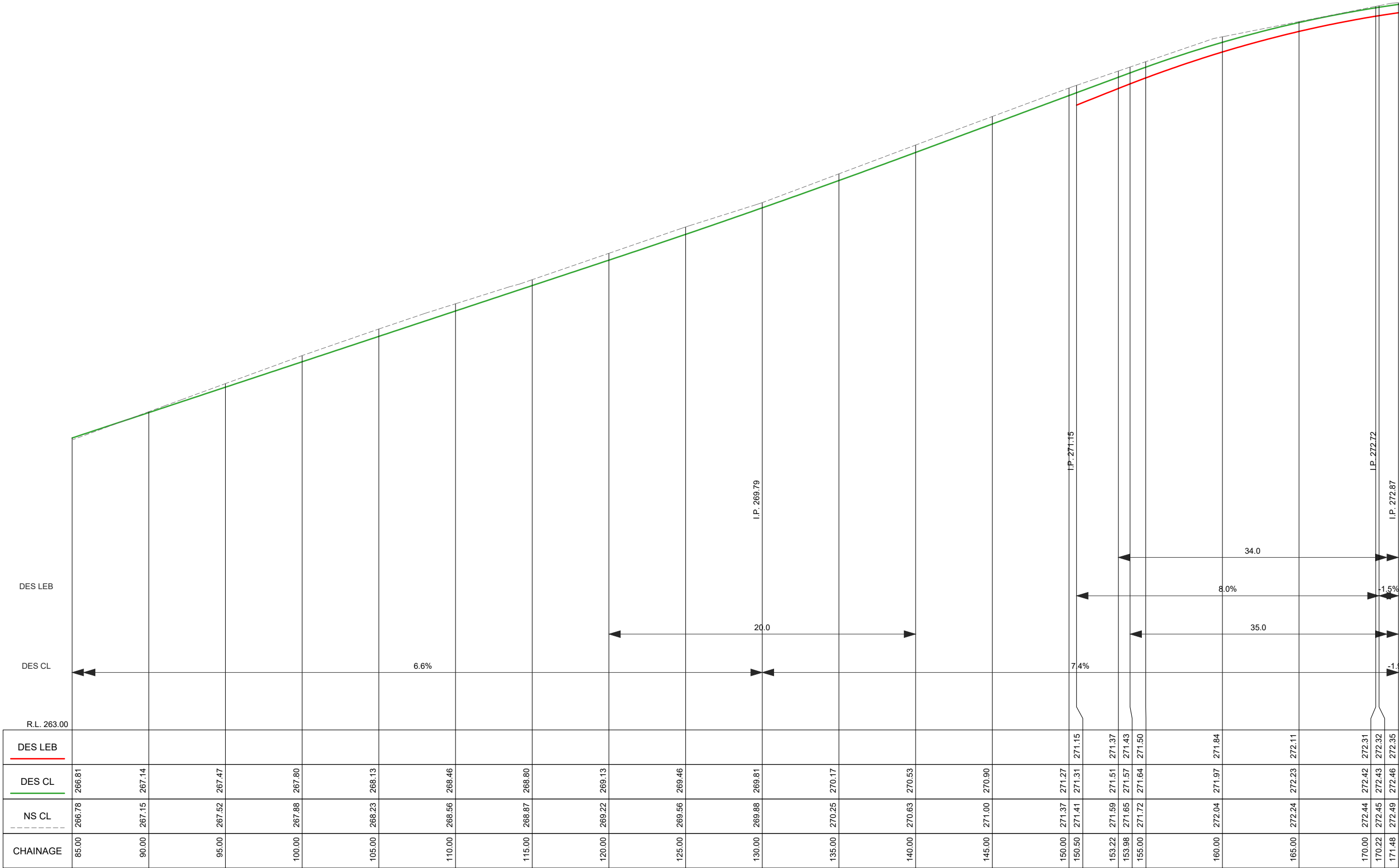
MURIEL STREET LONGITUDINAL SECTION CH 0.000 To 85.000
SCALES: H 1:250 V 1:50 (A3)



PROJECT DESIGN STATUS		
Surveyor	H. WHYTOCK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 2		

PROJECT TITLE	
Location:	MURIEL STREET
Suburb:	KANGAROO FLAT
Works:	ROAD RECONSTRUCTION
Reference:	GB5118

SHEET DETAILS			
LONGITUDINAL SECTION		Sheet:	7 OF 13
		Scale:	AS SHOWN A3
		Plot Date:05/04/2023 By:Leigh Oliver	
AMENDMENTS			
Revision	Description	Approved by	Date
-		-	-
-		-	-



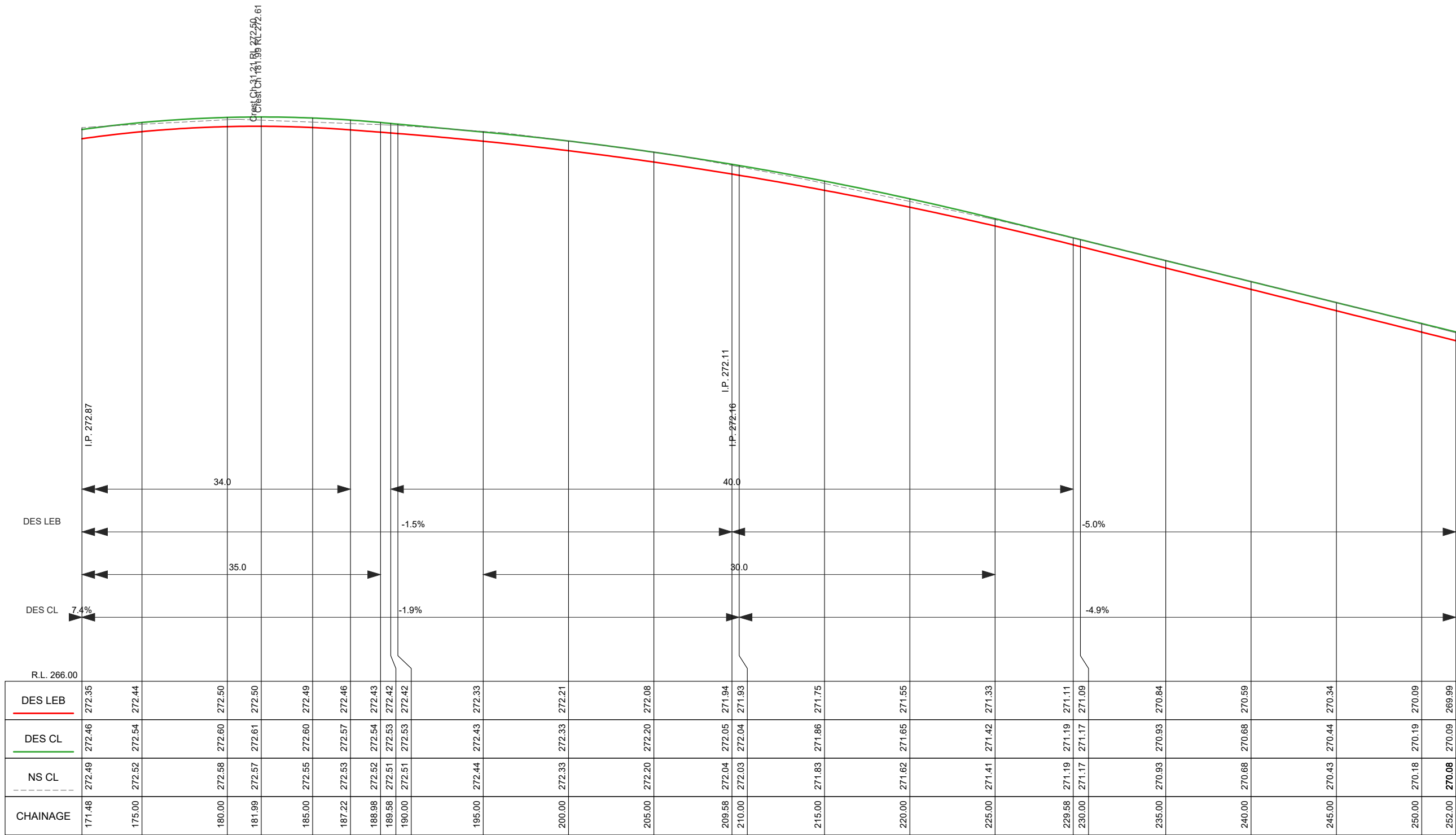
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SCALES: H 1:250 V 1:50 (A3)



PROJECT DESIGN STATUS		
Surveyor	H. WHYTECK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 2		

PROJECT TITLE	
Location:	MURIEL STREET
Suburb:	KANGAROO FLAT
Works:	ROAD RECONSTRUCTION
Reference:	GB5118

SHEET DETAILS			
LONGITUDINAL SECTION		Sheet:	8 OF 13
		Scale:	AS SHOWN A3
		Plot Date:05/04/2023 By:Leigh Oliver	
AMENDMENTS			
Revision	Description	Approved by	Date
-		-	-
-		-	-



MURIEL STREET LONGITUDINAL SECTION CH 171.480 To 252.000
SCALES: H 1:250 V 1:50 (A3)

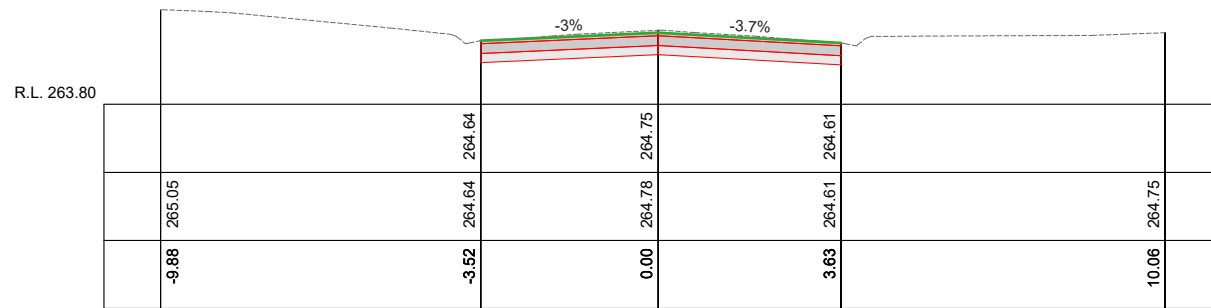


PROJECT DESIGN STATUS		
Surveyor	H. WHYTOCK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

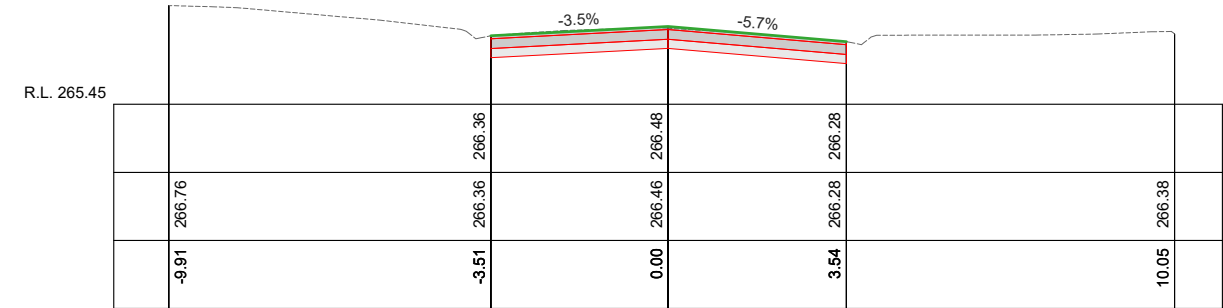
**PRELIMINARY DESIGN
DRAFT 2**

PROJECT TITLE	
Location:	MURIEL STREET
Suburb:	KANGAROO FLAT
Works:	ROAD RECONSTRUCTION
Reference:	GB5118

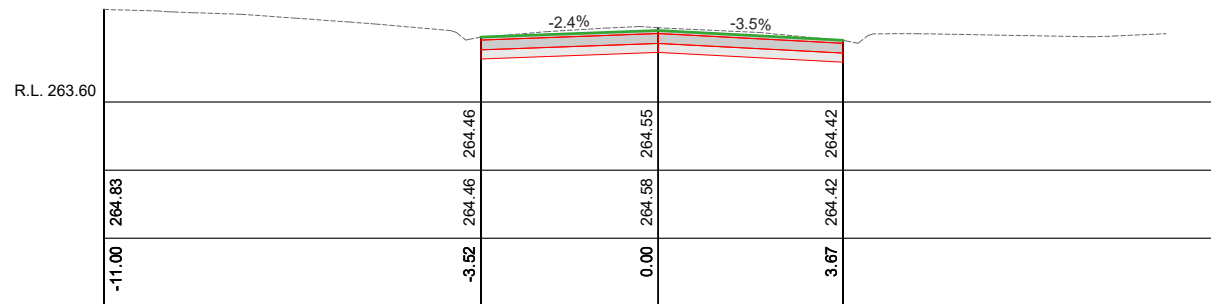
SHEET DETAILS			
LONGITUDINAL SECTION		Sheet:	9 OF 13
		Scale:	AS SHOWN A3
		Plot Date:05/04/2023 By:Leigh Oliver	
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
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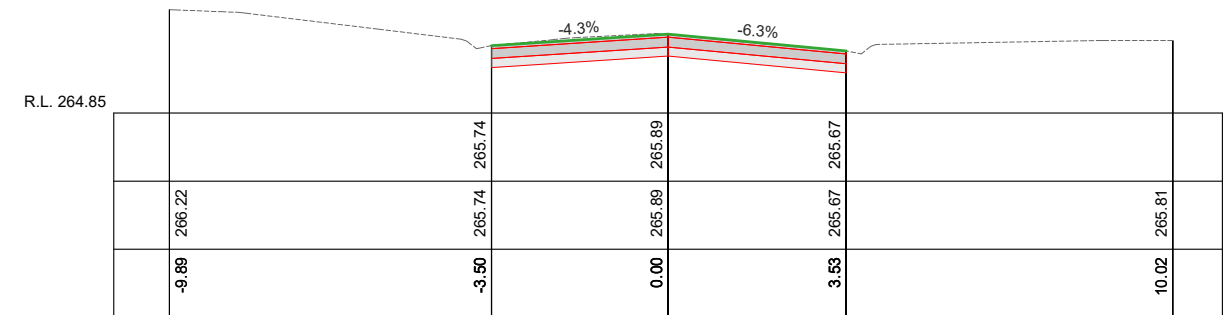
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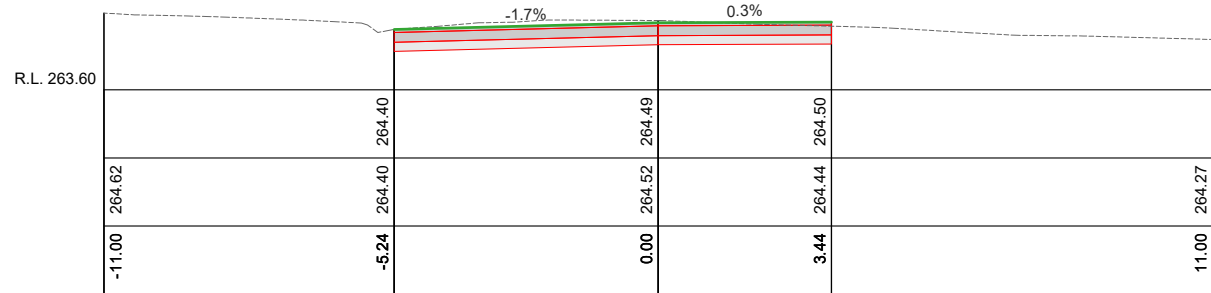
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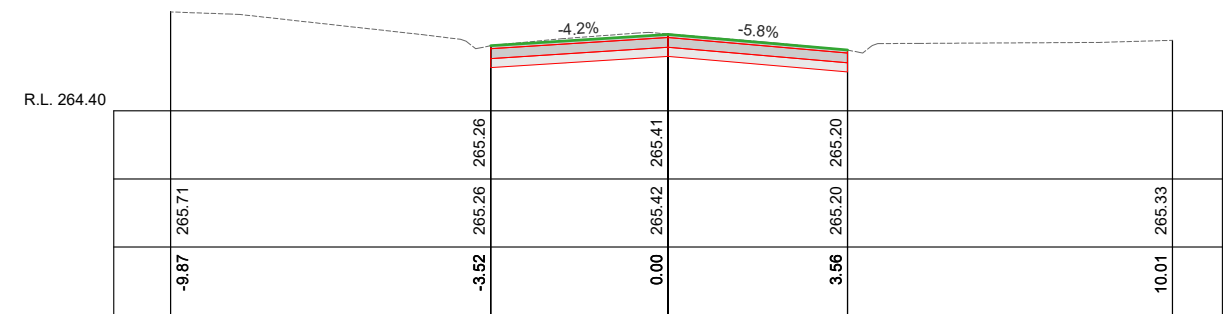
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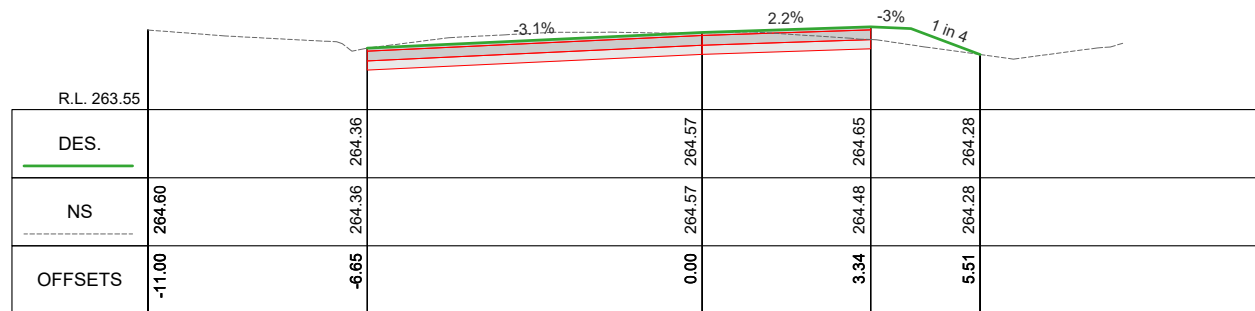
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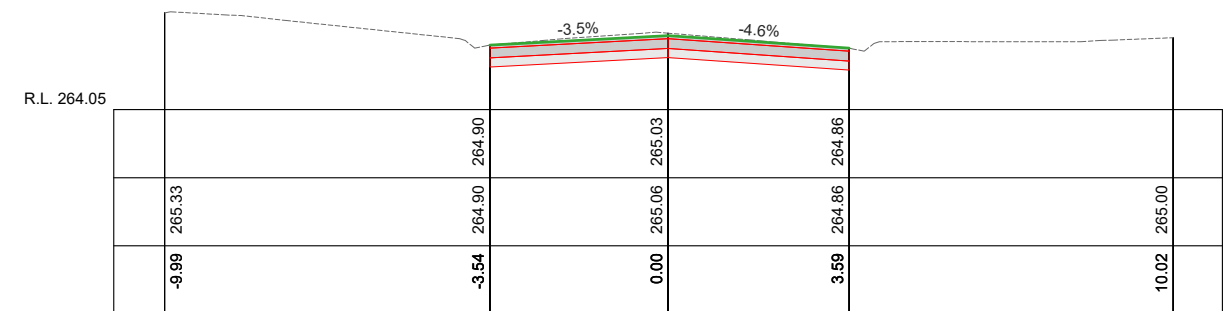
Ch 20.00



Ch 60.00



Ch 10.00



Ch 50.00

MURIEL STREET CROSS SECTIONS
SCALES: H 1:150 V 1:100 (A3)

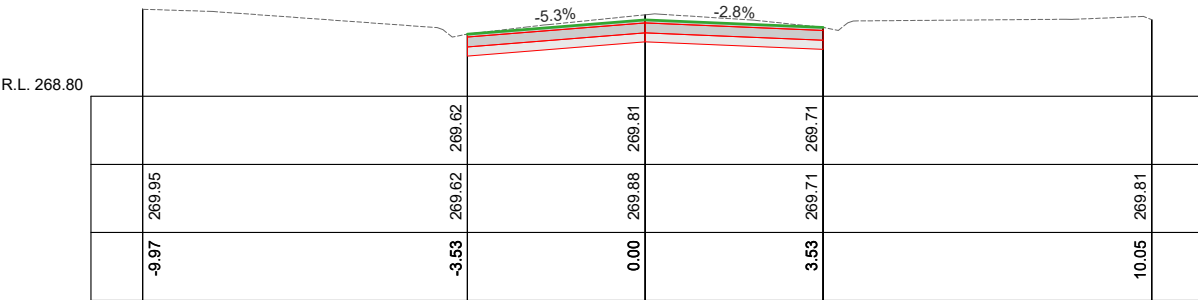


PROJECT DESIGN STATUS		
Surveyor	H. WHYTOCK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23

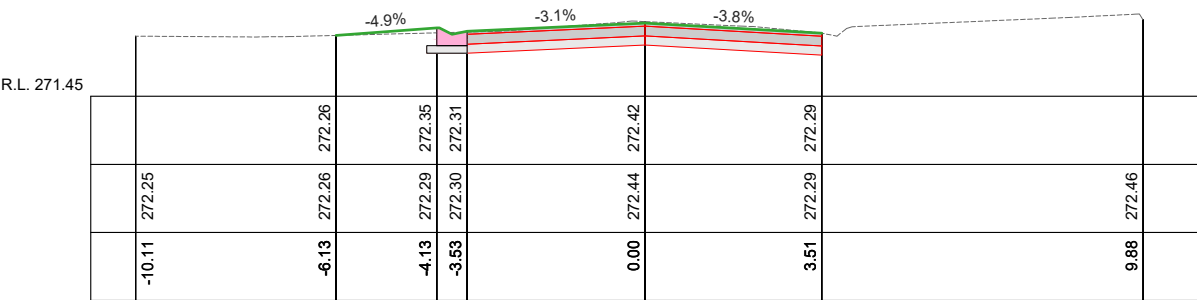
PRELIMINARY DESIGN
DRAFT 2

PROJECT TITLE	
Location:	MURIEL STREET
Suburb:	KANGAROO FLAT
Works:	ROAD RECONSTRUCTION
Reference:	GB5118

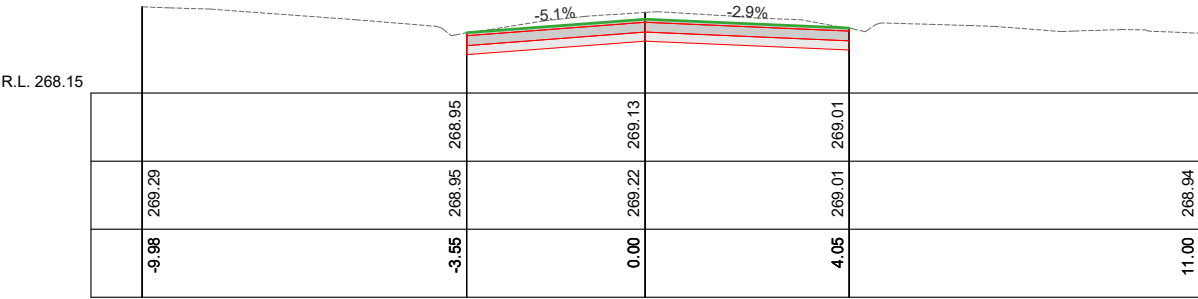
SHEET DETAILS			
CROSS SECTIONS		Sheet: 10 OF 13	
		Scale: AS SHOWN	A3
		Plot Date:05/04/2023 By:Leigh Oliver	
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
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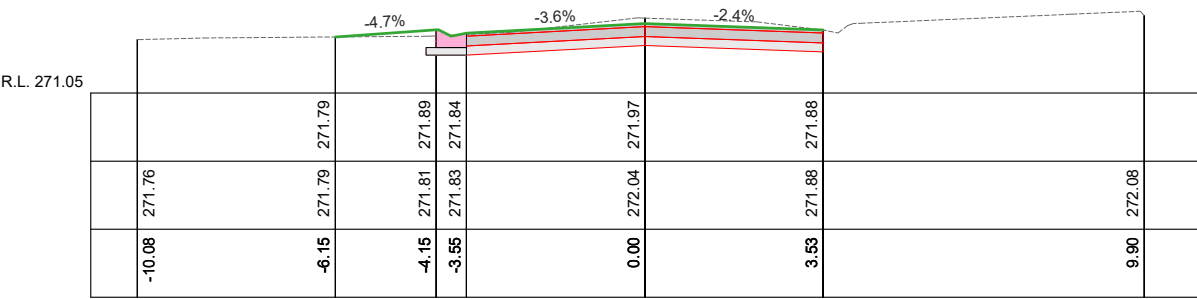
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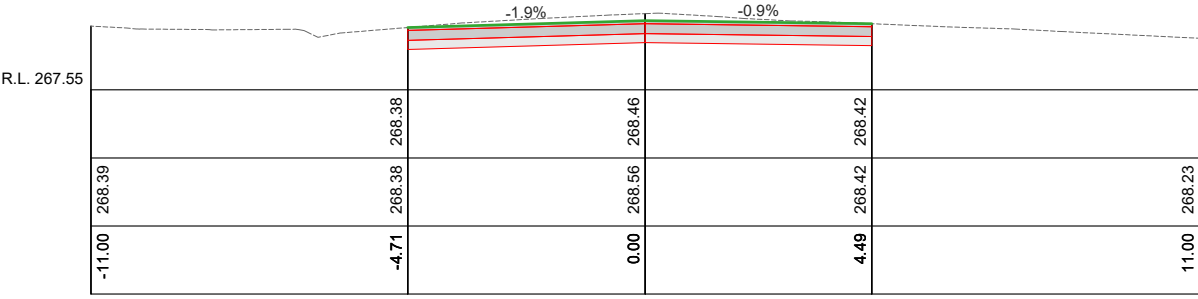
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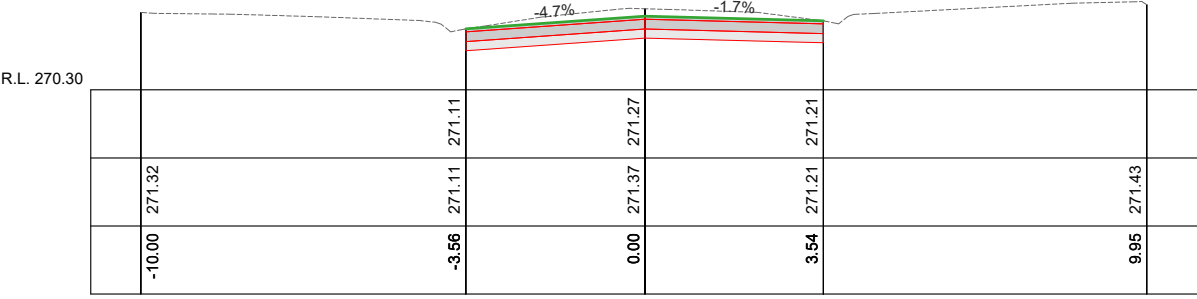
Ch 120.00



Ch 160.00



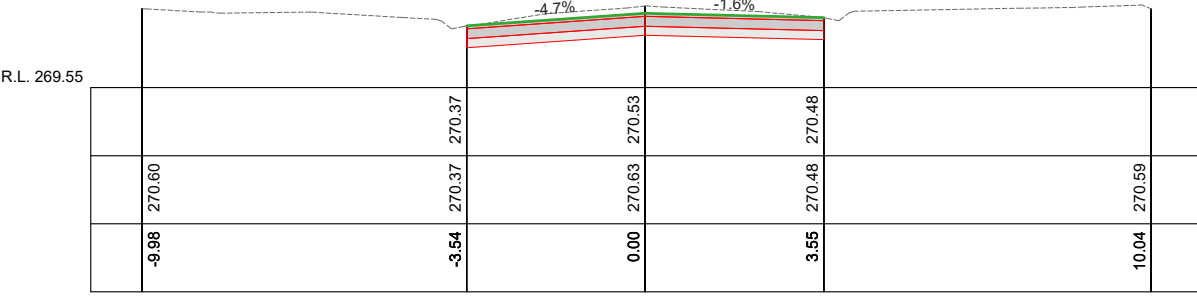
Ch 110.00



Ch 150.00



Ch 100.00



Ch 140.00

MURIEL STREET CROSS SECTIONS
SCALES: H 1:150 V 1:100 (A3)



PROJECT DESIGN STATUS
Surveyor: H. WHYTOCK FEB. 2023
Designer: L. OLIVER MAR. 2023
Draft Checked: A. SMITH xx/xx/23
Tender Approved: N. SARTORI xx/xx/23

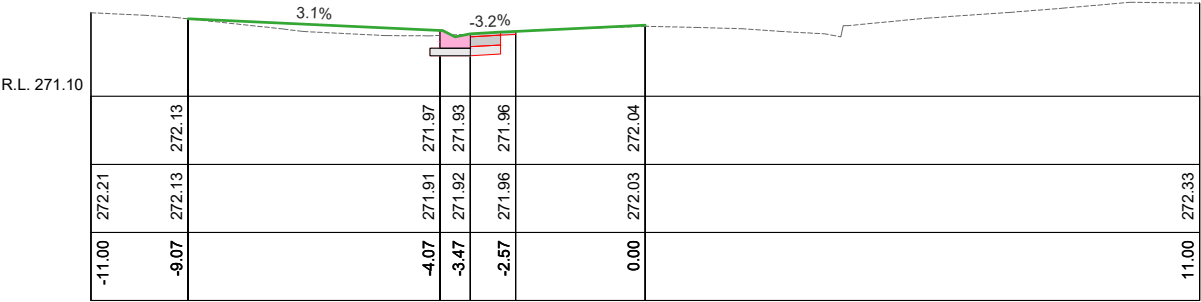
**PRELIMINARY DESIGN
DRAFT 2**

PROJECT TITLE
Location: MURIEL STREET
Suburb: KANGAROO FLAT
Works: ROAD RECONSTRUCTION
Reference: GB5118

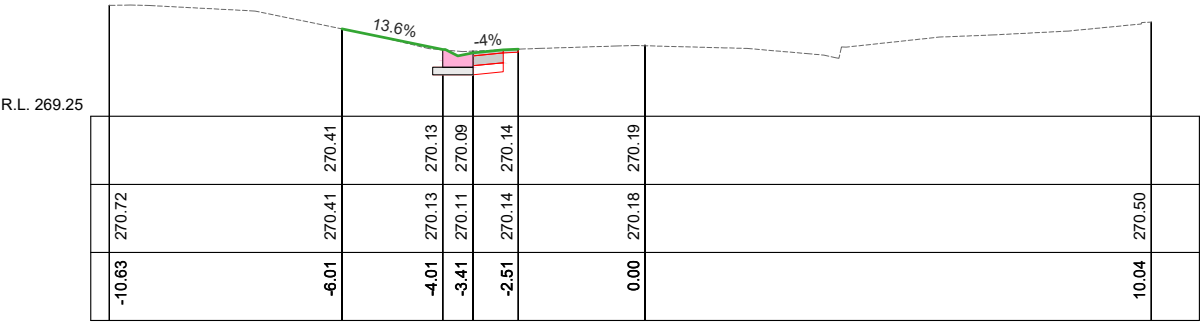
SHEET DETAILS
Sheet: 11 OF 13
Scale: AS SHOWN A3
Plot Date: 05/04/2023 By: Leigh Oliver

AMENDMENTS

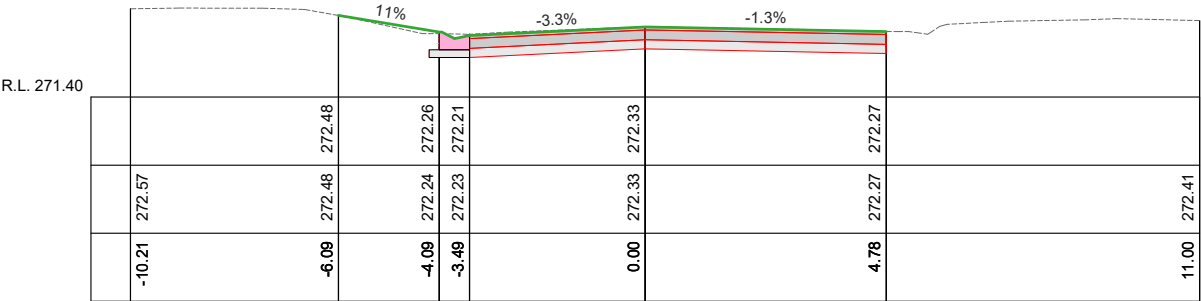
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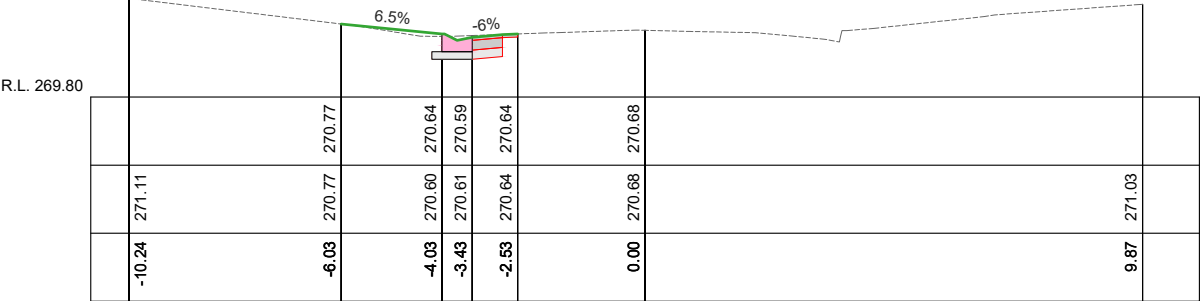
Ch 210.00



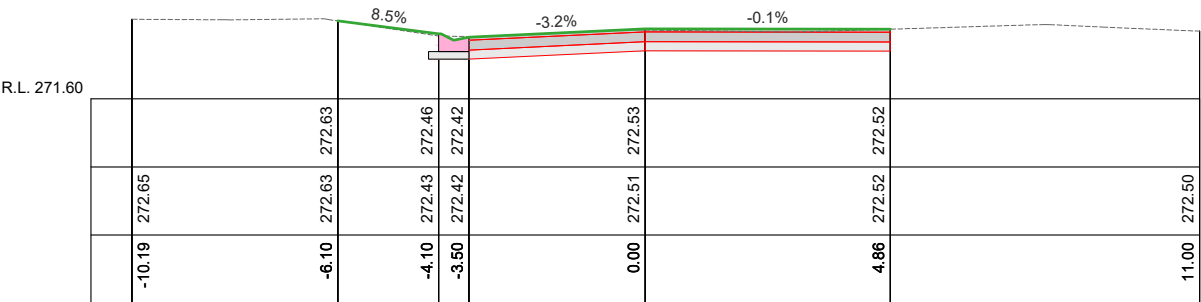
Ch 250.00



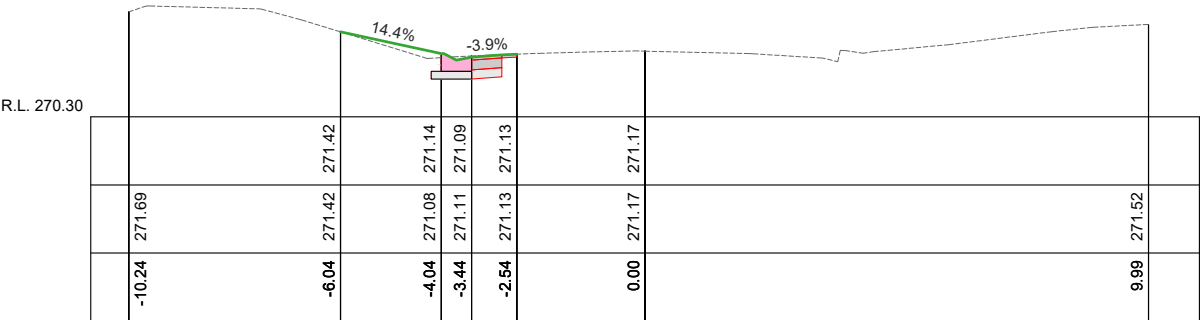
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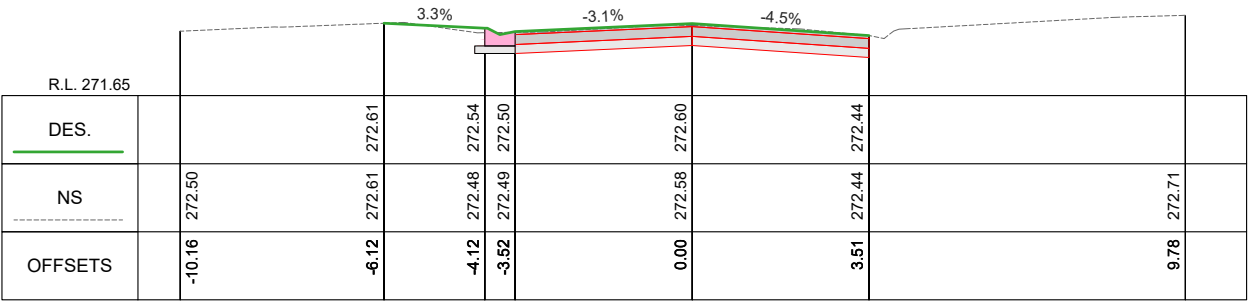
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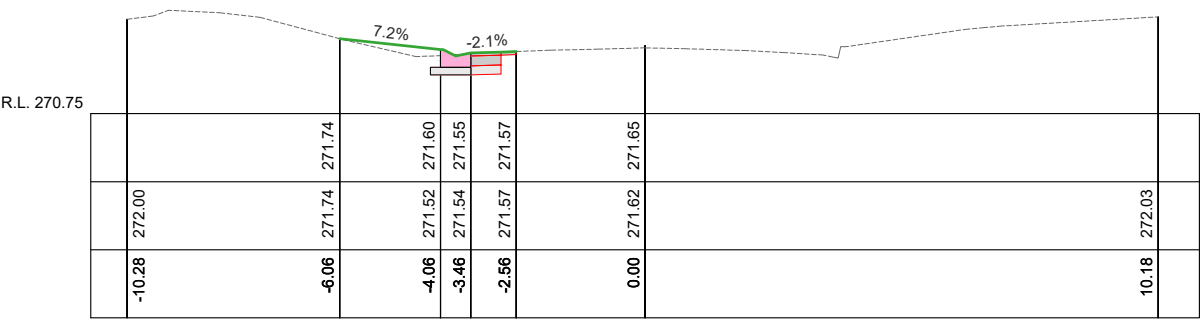
Ch 190.00



Ch 230.00



Ch 180.00



Ch 220.00

MURIEL STREET CROSS SECTIONS
SCALES: H 1:150 V 1:100 (A3)



PROJECT DESIGN STATUS		
Surveyor	H. WHYTOCK	FEB. 2023
Designer	L. OLIVER	MAR. 2023
Draft Checked	A. SMITH	xx/xx/23
Tender Approved	N. SARTORI	xx/xx/23
PRELIMINARY DESIGN DRAFT 2		

PROJECT TITLE	
Location:	MURIEL STREET
Suburb:	KANGAROO FLAT
Works:	ROAD RECONSTRUCTION
Reference:	GB5118

SHEET DETAILS			
CROSS SECTIONS		Sheet:	12 OF 13
		Scale:	AS SHOWN A3
		Plot Date:05/04/2023 By:Leigh Oliver	
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-

SETOUT ON CONSTRUCTION PLANS