

MIDLAND HIGHWAY / WARATAH ROAD HUNTLY

GB4900

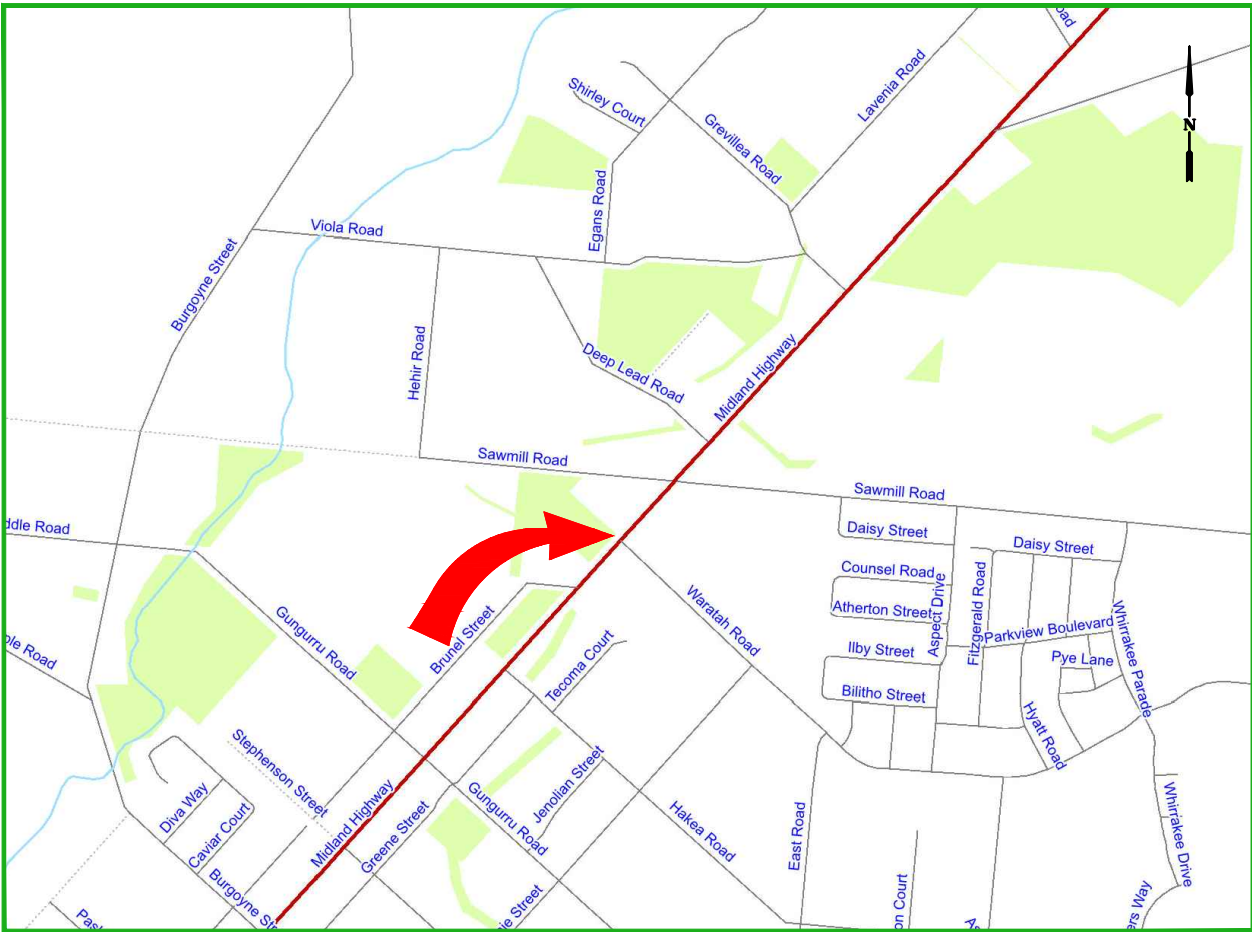
TRAFFIC SIGNALS NOVEMBER 2023



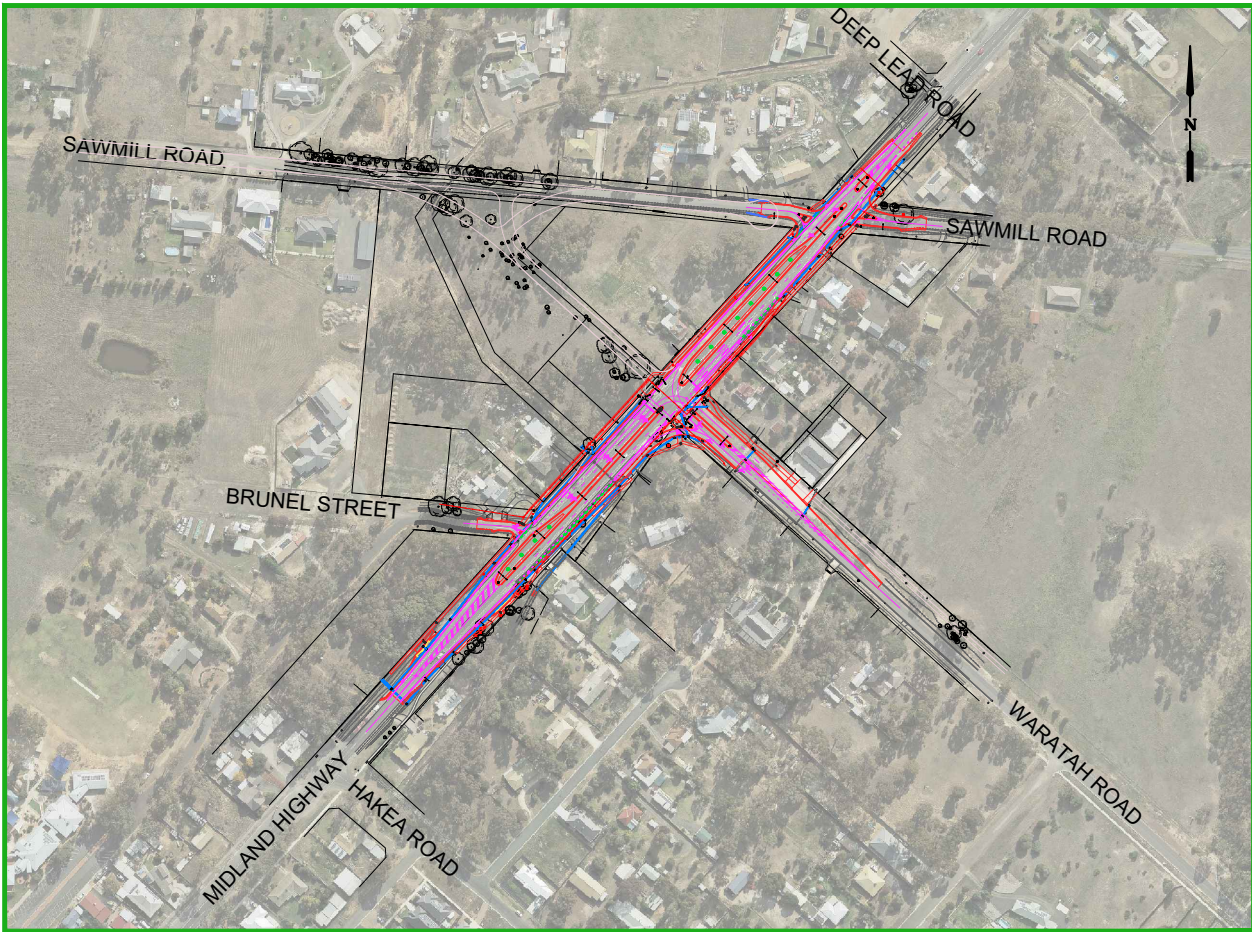
PROJECT SUMMARY

- PAVEMENT RECONSTRUCTION
- KERB & CHANNEL
- UNDERGROUND DRAINAGE
- FOOTPATH
- LINEMARKING
- MEDIANS
- TRAFFIC SIGNAL
- LIGHTING

DOCUMENT CONTROL				
SHEET No.	SHEETD ESC.	30/11/2023	xx/xx/xx	xx/xx/xx
		DRAFT REVISION	TENDER REVISION	CONSTRUCTION REVISION
1	COVER SHEET	A		
2	GENERAL NOTES & TYPICAL DETAILS	A		
3	OVERALL CONTROL & LAYOUT	A		
4-5	EXISTING CONDITIONS & DEMOLITION	A		
6-12	DETAIL LAYOUT	A		
13-18	MIDLAND LONGITUDINAL SECTIONS	A		
19-21	MIDLAND CROSS SECTIONS	A		
22	BRUNEL LONG & CROSS SECTIONS	A		
23	WARATAH LONGITUDINAL SECTIONS	A		
24	WARATAH CROSS SECTIONS	A		
25	SAWMILL LONG & CROSS SECTIONS	A		
26	SAWMILL WEST LONG & CROSS SECTIONS	A		
27-31	DRAINAGE LONG SECTIONS	A		
32	DRAINAGE LONG SECTIONS & PIT SCHEDULE	A		
33	DRAINAGE LONG SECTIONS	A		
34	RACE LONG SECTION & PIT SCHEDULE	A		
35-36	SIGNS & LINEMARKING	A		
37	TRASH RACK DETAILS	A		
38-39	SETOUT	-		



LOCALITY MAP



PROJECT EXTENTS

PROJECT PLANNING REQUIREMENTS				AMENDMENTS			
Item	Required	Comments	Contractor	Revision	Description	Approved by	Date
Vegetation	Yes	Talk to arborist before construction		-	-	-	-
RRV	Yes	Approval required					
CMA	No	-					
Planning Permit	No	-					
Land Acquisition	Yes	-					
CHMP	No	-					
Other	No	-					



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

COVER SHEET

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: -	Revision: A	
Original sheet size: A3	File: GB4900.dwg	
Sheet: 1 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH

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
- 210 Geotextiles in Earthworks

FLEXIBLE PAVEMENTS

- 304 Unbound Flexible Pavement Construction
- 306 Cementitious Treated Pavement Subbase
- 307 In Situ Stabilisation of Pavements with Cementitious Binders
- 308 In Situ Stabilisation of Pavements with Foamed Bitumen Binder
- 310 Preparation of Granular Pavements for Bituminous Surfacing

ASPHALT AND SURFACE TREATMENTS

- 402 Removal of Pavement by Cold Planing (profiling)
- 407 Dense Graded Asphalt
- 431 Coloured Surface Treatments

INCIDENTAL CONSTRUCTION

- 701 Underground Stormwater Drains
- 702 Subsurface Drainage
- 703 General Concrete Paving
- 704 Precast Concrete Kerb
- 705 Drainage Pits and Covers
- 706 Installation or Replacement of Utility Infrastructure within Road Reserves
- 707 Fencing
- 709 Guide Posts
- 710 Fixing Raised Pavement Markers
- 712 Block Paving
- 713 Beaching
- 714 Sign Installation
- 721 Pavement Markings
- 730 Traffic Signal Installation
- 731 Road Lighting Installation

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 Works 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	Yes	Talk to arborist before construction	
RRV	Yes	Approval required	
CMA	No	-	
Planning Permit	No	-	
Land Acquisition	Yes	-	
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

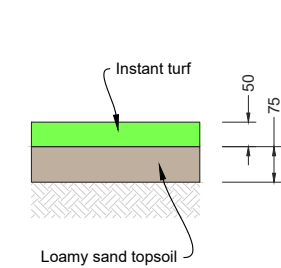
A Site Environmental Management Plan (SEMP) is to be developed by delivery units to manage the project site during the project delivery window. Consideration shall be given to appropriate management of the following, with a SEMP plan filled out and displayed onsite at all times:

- 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

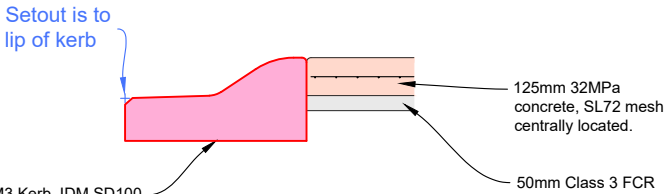
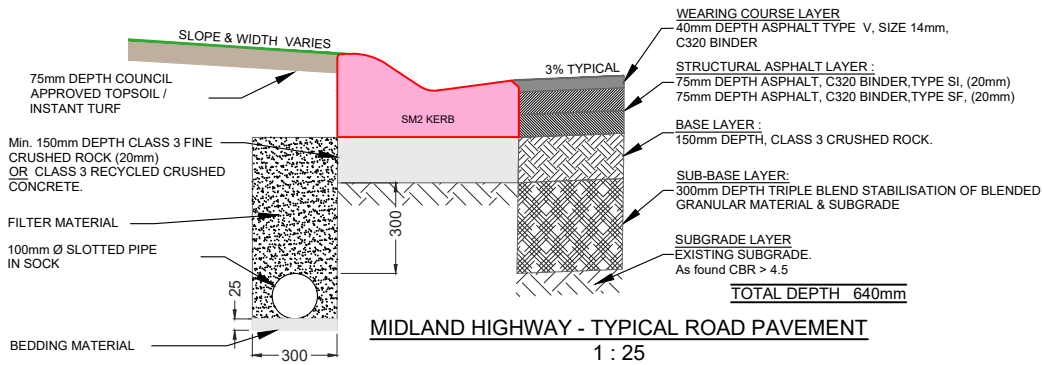
TRAFFIC MANAGEMENT PLAN

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.

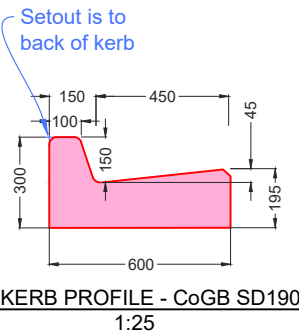
ROLL OUT GRASS



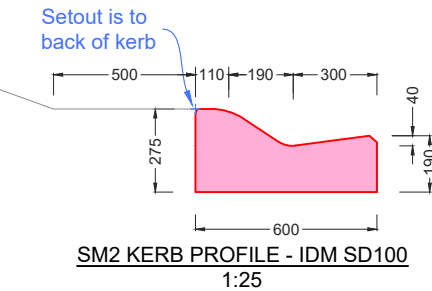
LANDSCAPING DETAILS



TRAFFIC ISLAND DETAIL
1:25



B4 KERB PROFILE - CoGB SD190
1:25



SM2 KERB PROFILE - IDM SD100
1:25

SURVEY NOTES
Survey has been conducted to:
- MGA 2020 and orientated via PM 11 & PM 26
- Survey level has been tied to AHD via GPS



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.

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

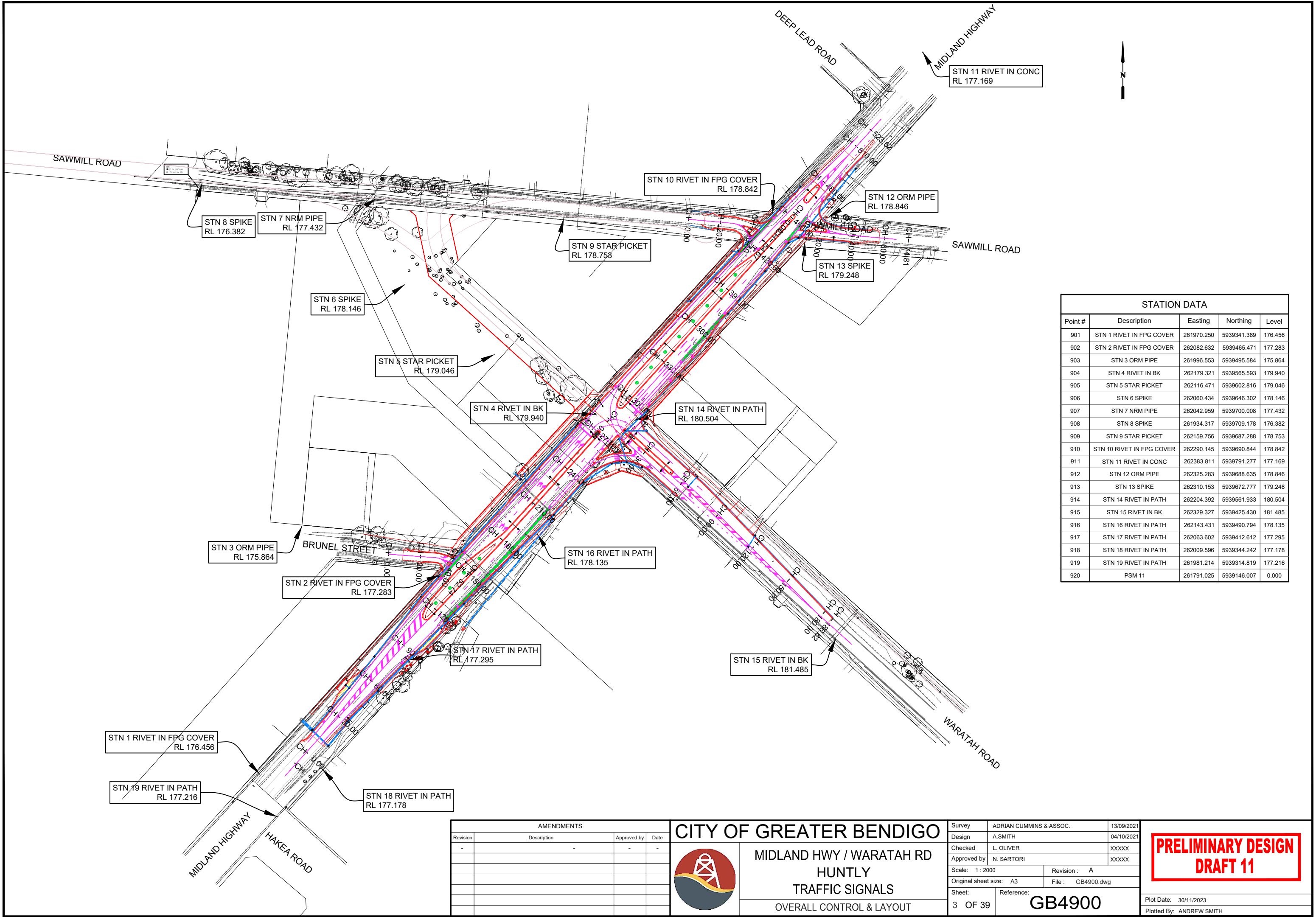
MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

GENERAL NOTES & TYPICAL DETAILS

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Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: -	Revision: A	
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Sheet: 2 OF 39	Reference: GB4900	

**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1 RIVET IN FPG COVER	261970.250	5939341.389	176.456
902	STN 2 RIVET IN FPG COVER	262082.632	5939465.471	177.283
903	STN 3 ORM PIPE	261996.553	5939495.584	175.864
904	STN 4 RIVET IN BK	262179.321	5939565.593	179.940
905	STN 5 STAR PICKET	262116.471	5939602.816	179.046
906	STN 6 SPIKE	262060.434	5939646.302	178.146
907	STN 7 NRM PIPE	262042.959	5939700.008	177.432
908	STN 8 SPIKE	261934.317	5939709.178	176.382
909	STN 9 STAR PICKET	262159.756	5939687.288	178.753
910	STN 10 RIVET IN FPG COVER	262290.145	5939690.844	178.842
911	STN 11 RIVET IN CONC	262383.811	5939791.277	177.169
912	STN 12 ORM PIPE	262325.283	5939688.635	178.846
913	STN 13 SPIKE	262310.153	5939672.777	179.248
914	STN 14 RIVET IN PATH	262204.392	5939561.933	180.504
915	STN 15 RIVET IN BK	262329.327	5939425.430	181.485
916	STN 16 RIVET IN PATH	262143.431	5939490.794	178.135
917	STN 17 RIVET IN PATH	262063.602	5939412.612	177.295
918	STN 18 RIVET IN PATH	262009.596	5939344.242	177.178
919	STN 19 RIVET IN PATH	261981.214	5939314.819	177.216
920	PSM 11	261791.025	5939146.007	0.000

AMENDMENTS			
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CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

TRAFFIC SIGNALS

OVERALL CONTROL & LAYOUT

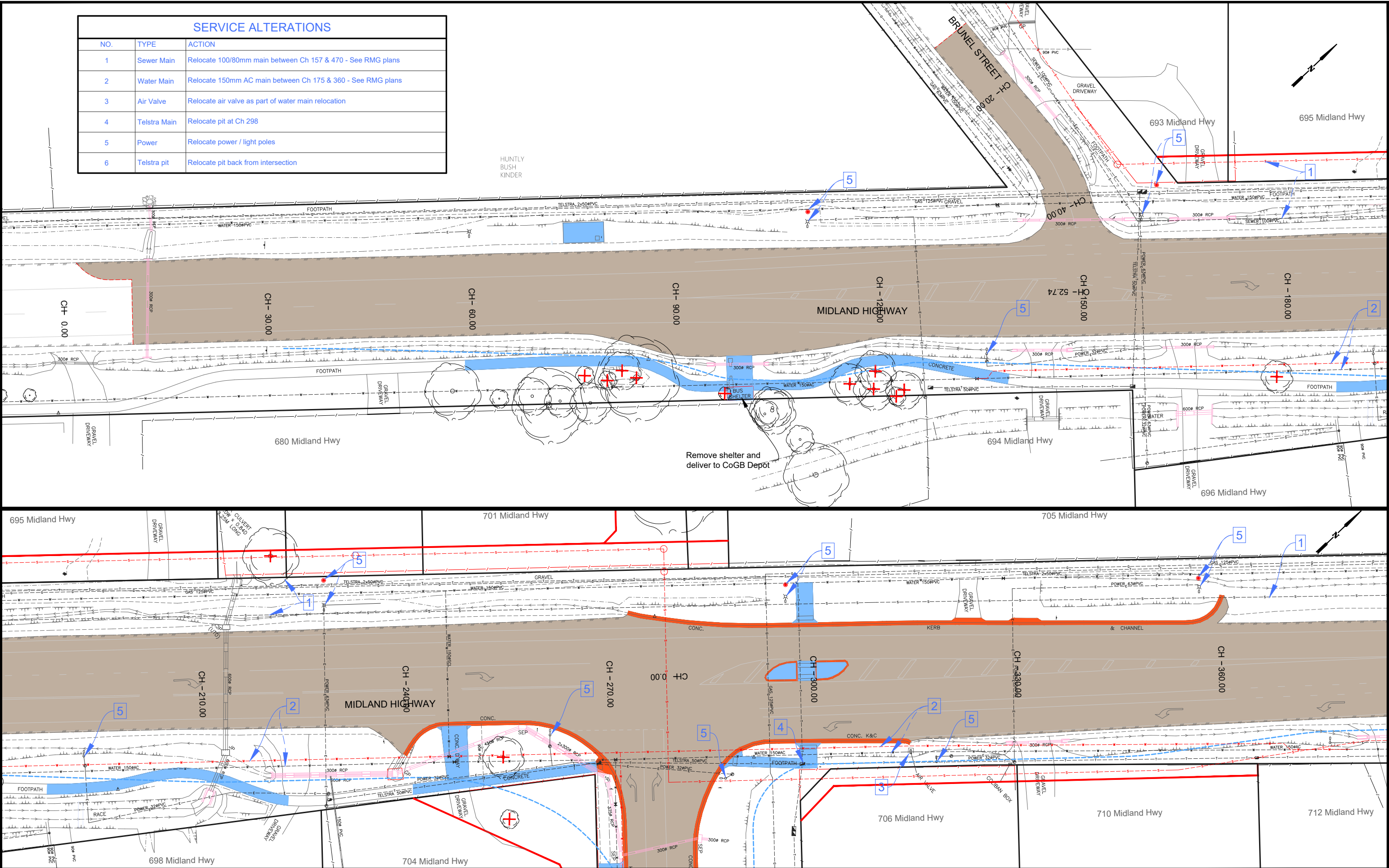
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Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
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**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023
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SERVICE ALTERATIONS

NO.	TYPE	ACTION
1	Sewer Main	Relocate 100/80mm main between Ch 157 & 470 - See RMG plans
2	Water Main	Relocate 150mm AC main between Ch 175 & 360 - See RMG plans
3	Air Valve	Relocate air valve as part of water main relocation
4	Telstra Main	Relocate pit at Ch 298
5	Power	Relocate power / light poles
6	Telstra pit	Relocate pit back from intersection



LEGEND

	Removal: Pavement		Removal: Linemarking		Removal: Tree
	Removal: Kerb		Removal: Sawcut		Removal: Pipe/Pit
	Removal: Concrete		Removal: Fence		

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

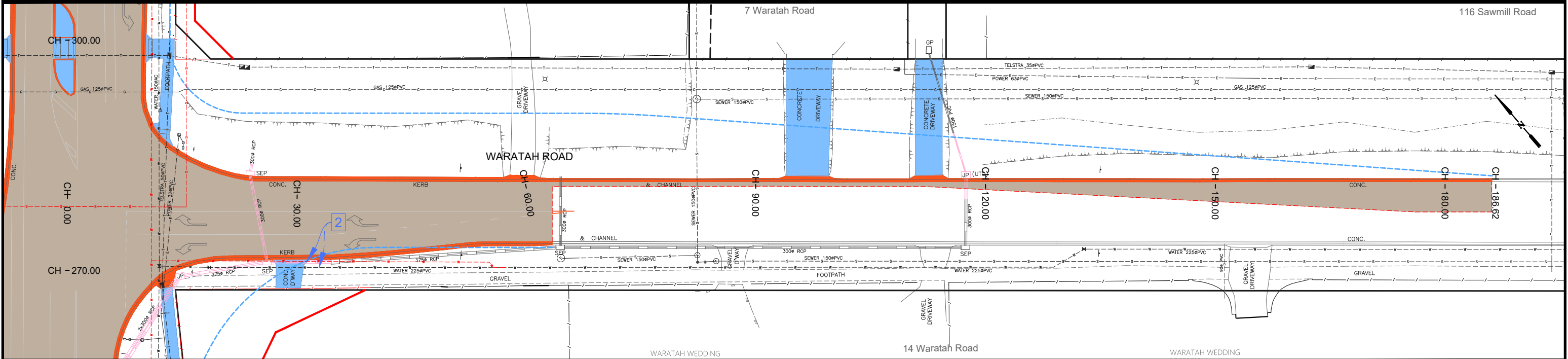
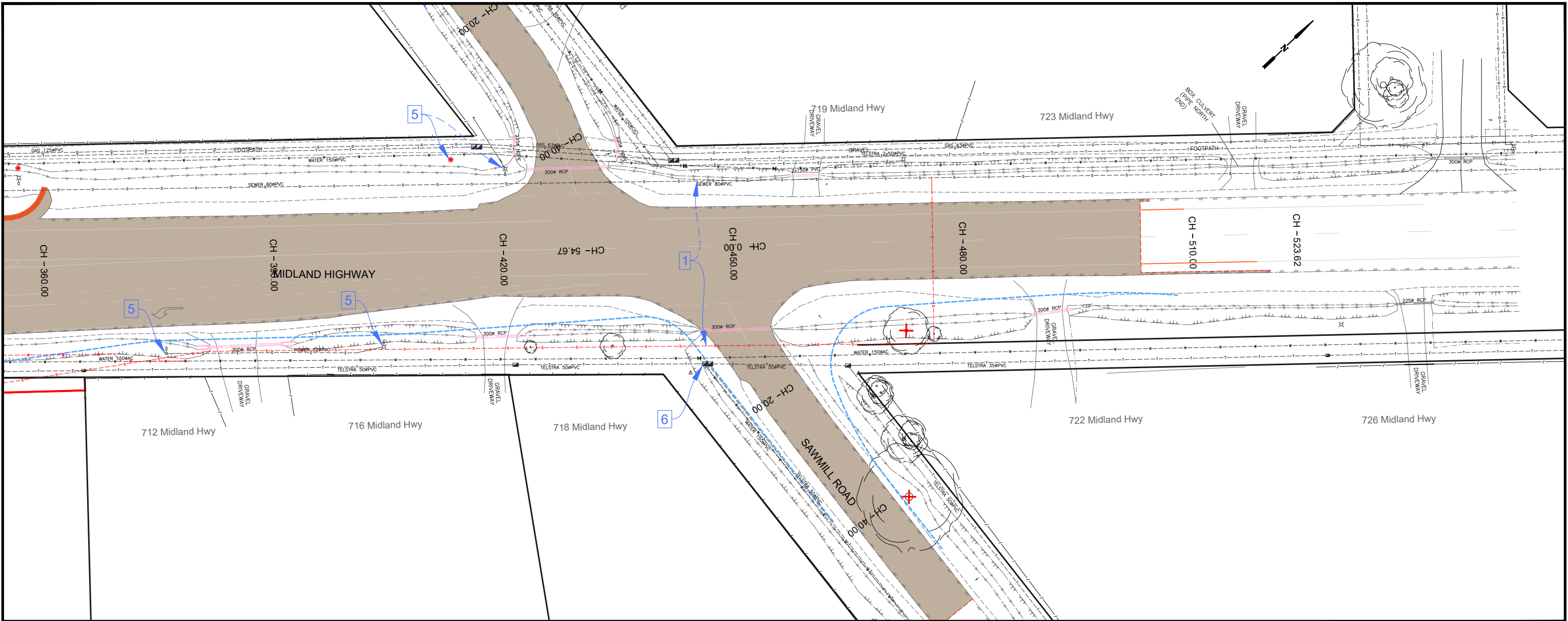


MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
EXISTING CONDITIONS & DEMOLITION

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: 1 : 750	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 4 OF 39	Reference: GB4900	

**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



LEGEND

	Removal: Pavement		Removal: Linemarking		Removal: Tree
	Removal: Kerb		Removal: Sawcut		Removal: Pipe/Pit
	Removal: Concrete		Removal: Fence		

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

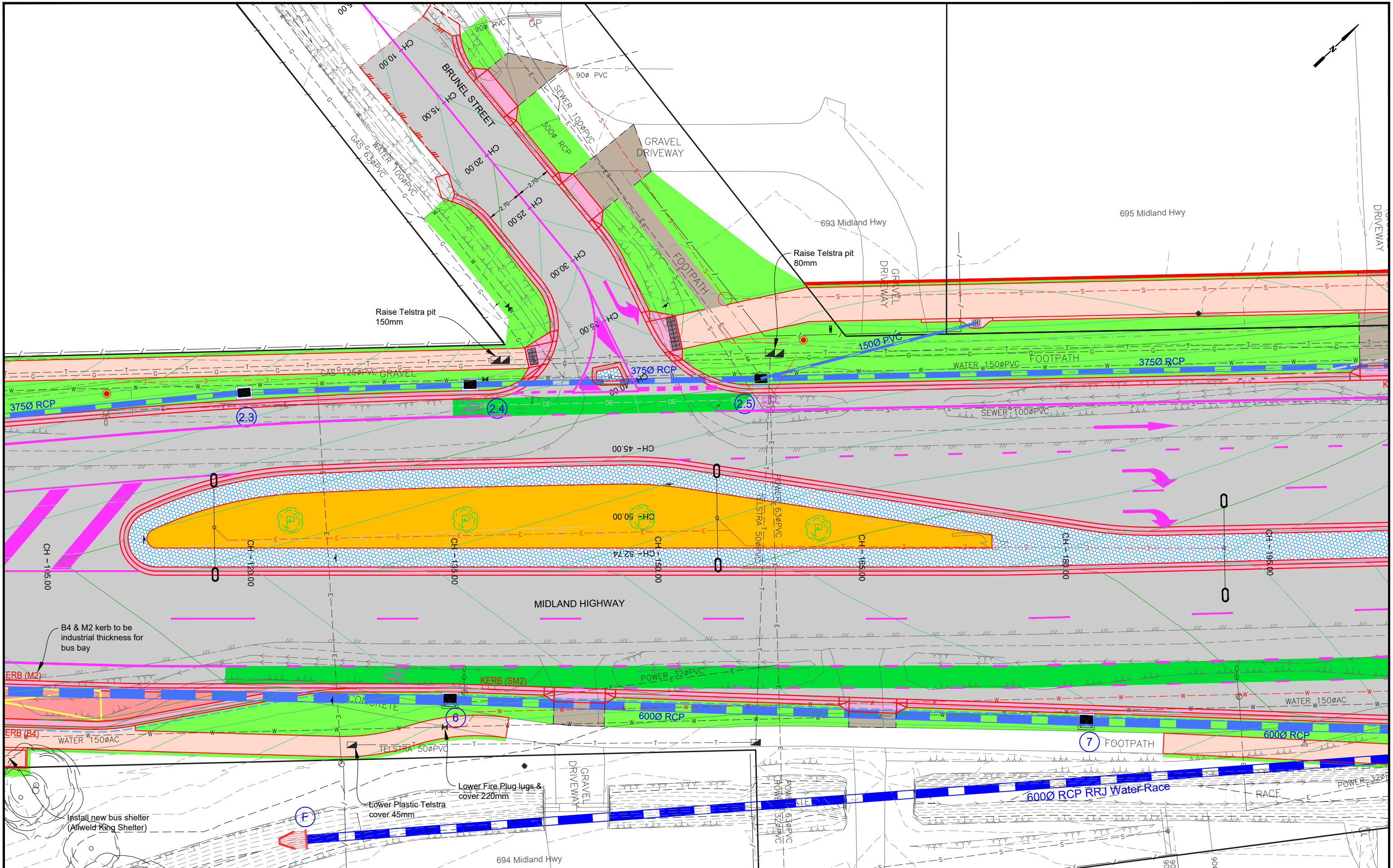
MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

EXISTING CONDITIONS & DEMOLITION

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: 1 : 750	Revision : A	
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Sheet: 5 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



LEGEND

Concrete: Footpath/Driveway Plain, 125mm, SL72, 25Mpa, As per IDM SD205, SD210

Concrete: Industrial Driveway, Plain, 150mm, SL82, 32Mpa, As per IDM SD250

Concrete: Stenciled, 125mm, SL72 - Traffic Island Infill

Landscape: Instant Turf

Landscape: 50mm Eucy mulch

DESIGN PAVEMENT: (Refer to details on page 2)

DESIGN CONTOURS - Levels to AHD (0.10m interval)

EXISTING CONTOURS - Levels to AHD (0.10m interval)

Proposed Tree Eucalyptus mannifera ssp. maculosa

50mm Gravel driveway

Design Edge of Seal

Edge of Works

Design Linemarking

AMENDMENTS

Revision	Description	Approved by	Date

CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

TRAFFIC SIGNALS

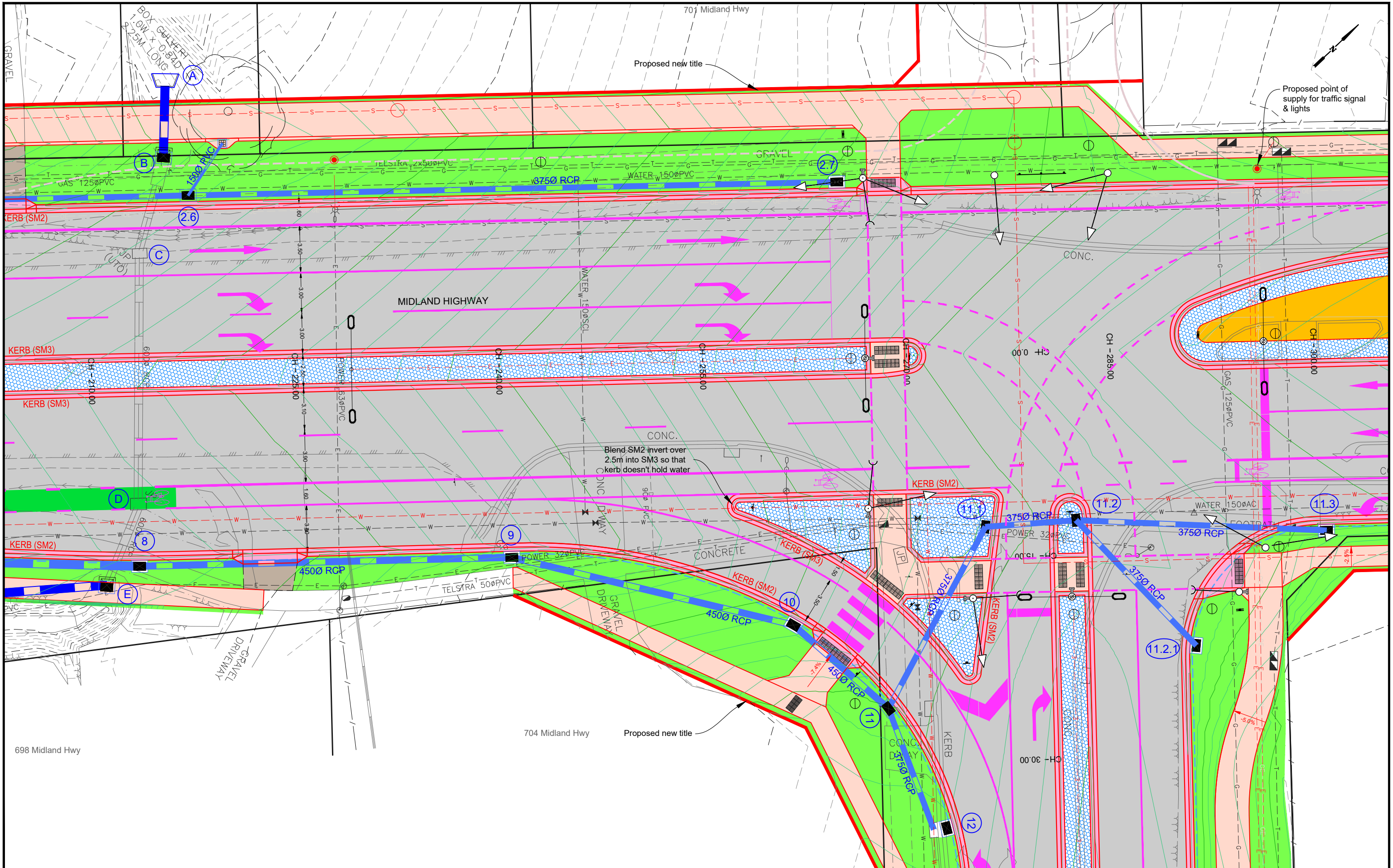
DETAIL LAYOUT

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: 1 : 250	Revision : A	
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PRELIMINARY DESIGN DRAFT 11

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Design Edge of Seal

Edge of Works

Design Linemarking

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY TRAFFIC SIGNALS

DETAIL LAYOUT

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Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXXX
Approved by	N. SARTORI	XXXXXX
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PRELIMINARY DESIGN DRAFT 11

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AMENDMENTS			
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CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

TRAFFIC SIGNALS

DETAIL LAYOUT

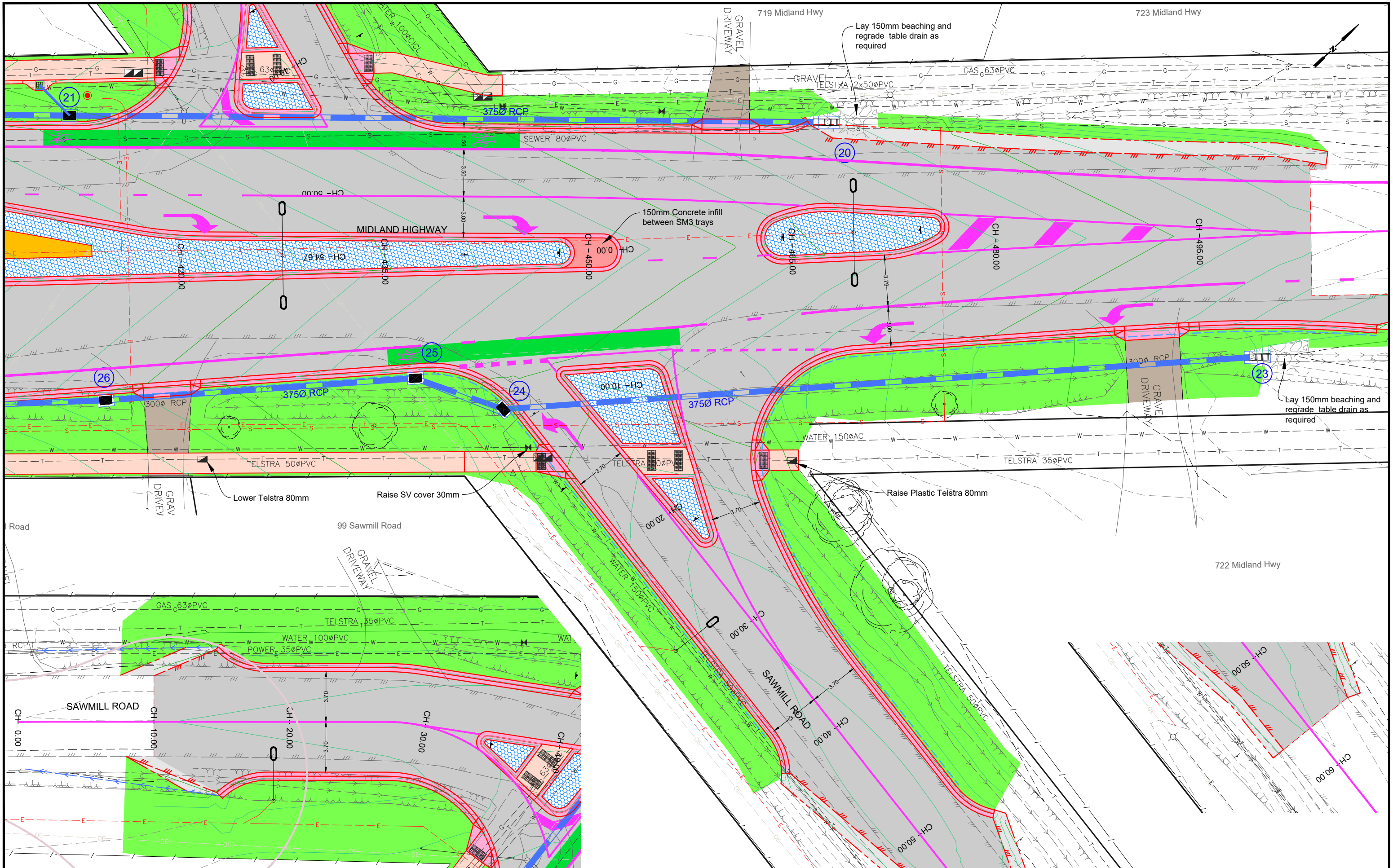
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PRELIMINARY DESIGN

DRAFT 11

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CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

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TRAFFIC SIGNALS

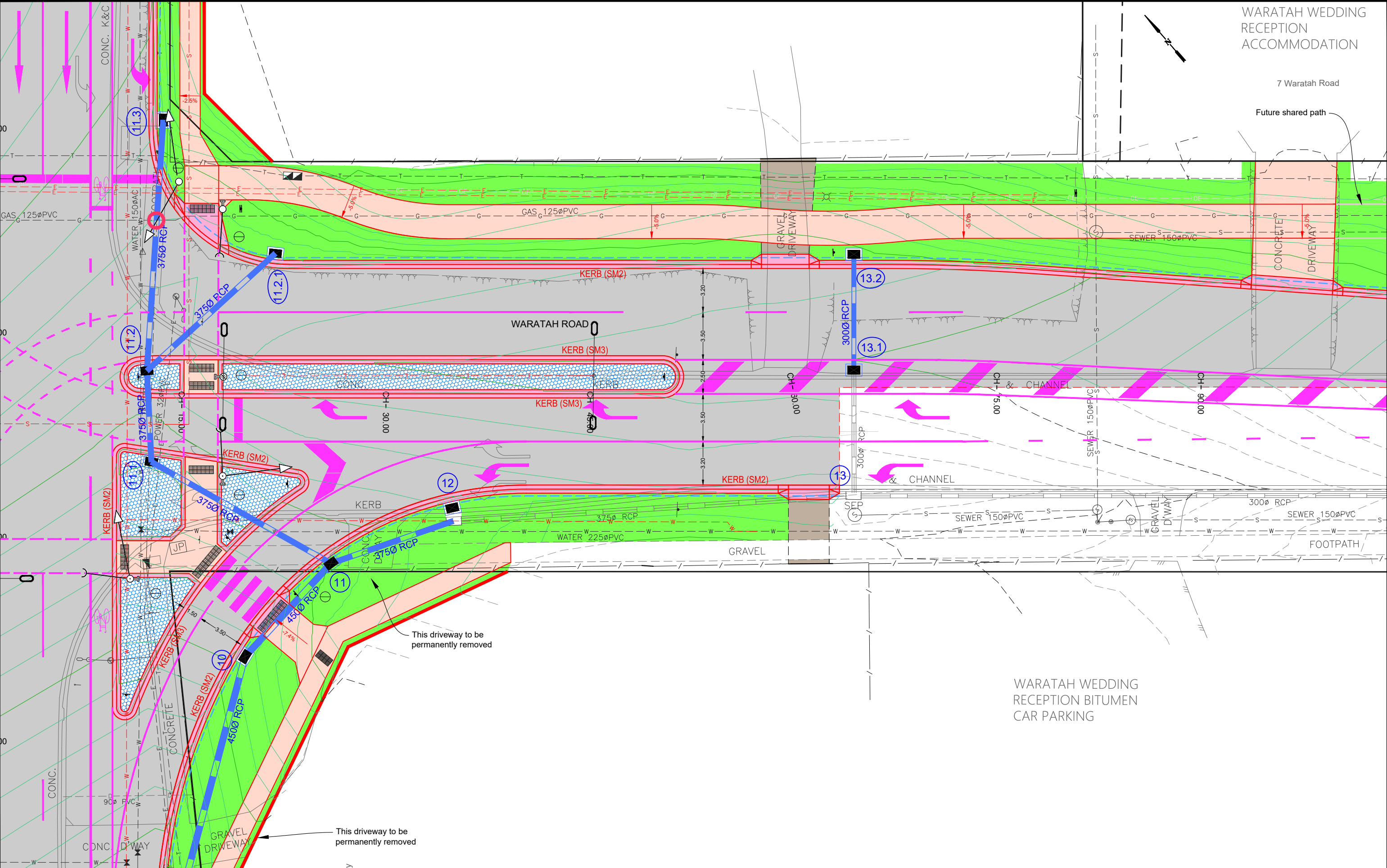
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PRELIMINARY DESIGN DRAFT 11

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50mm Gravel driveway

Design Edge of Seal

Edge of Works

Design Linemarking

AMENDMENTS			
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CITY OF GREATER BENDIGO



MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
DETAIL LAYOUT

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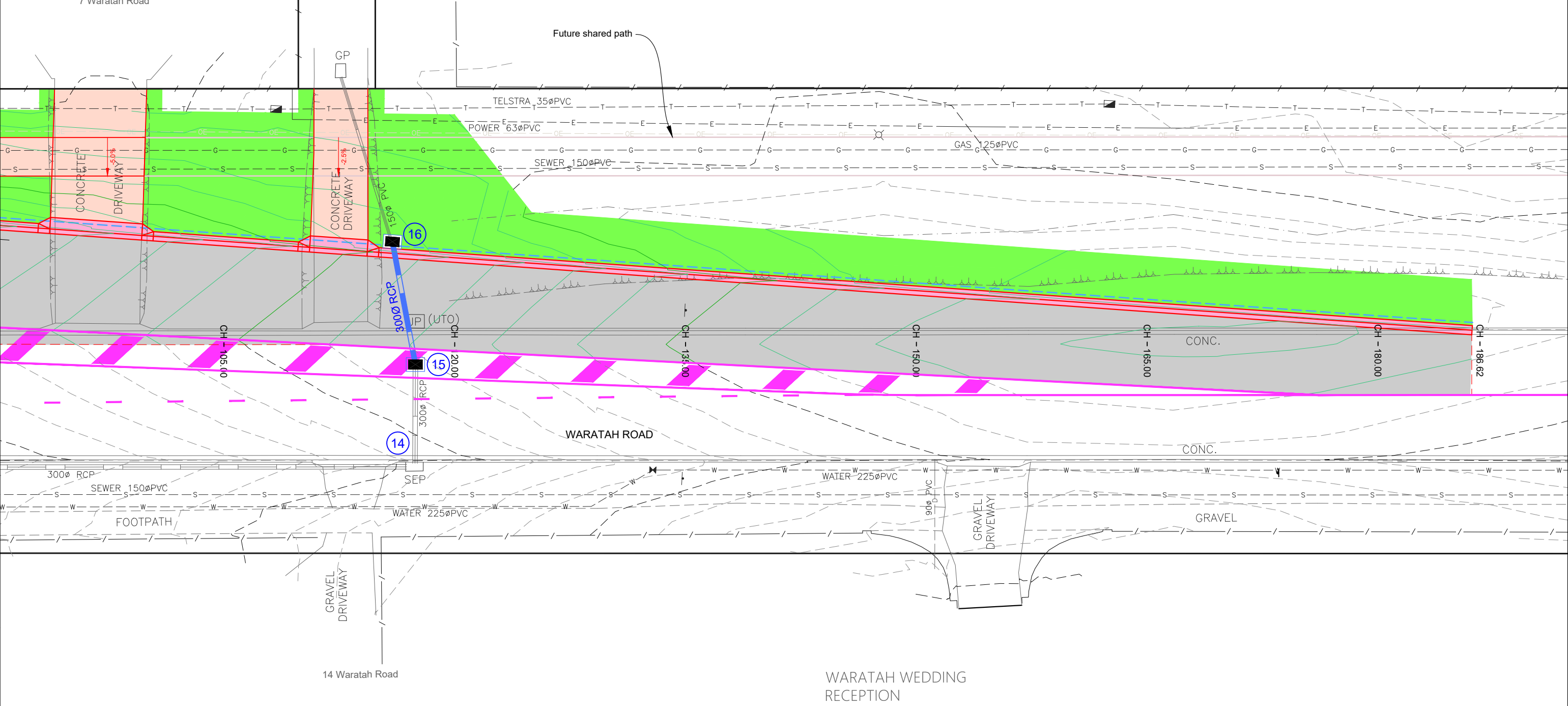
Plot Date: 30/11/2023
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**PRELIMINARY DESIGN
DRAFT 11**

WARATAH WEDDING
RECEPTION
ACCOMMODATION

7 Waratah Road

116 Sawmill Road



LEGEND			
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			Edge of Works
			Design Linemarking
			DESIGN PAVEMENT: (Refer to details on page 2)
			DESIGN CONTOURS - Levels to AHD (0.10m interval)
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			Proposed Tree Eucalyptus mannifera ssp. maculosa
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AMENDMENTS			
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CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

TRAFFIC SIGNALS

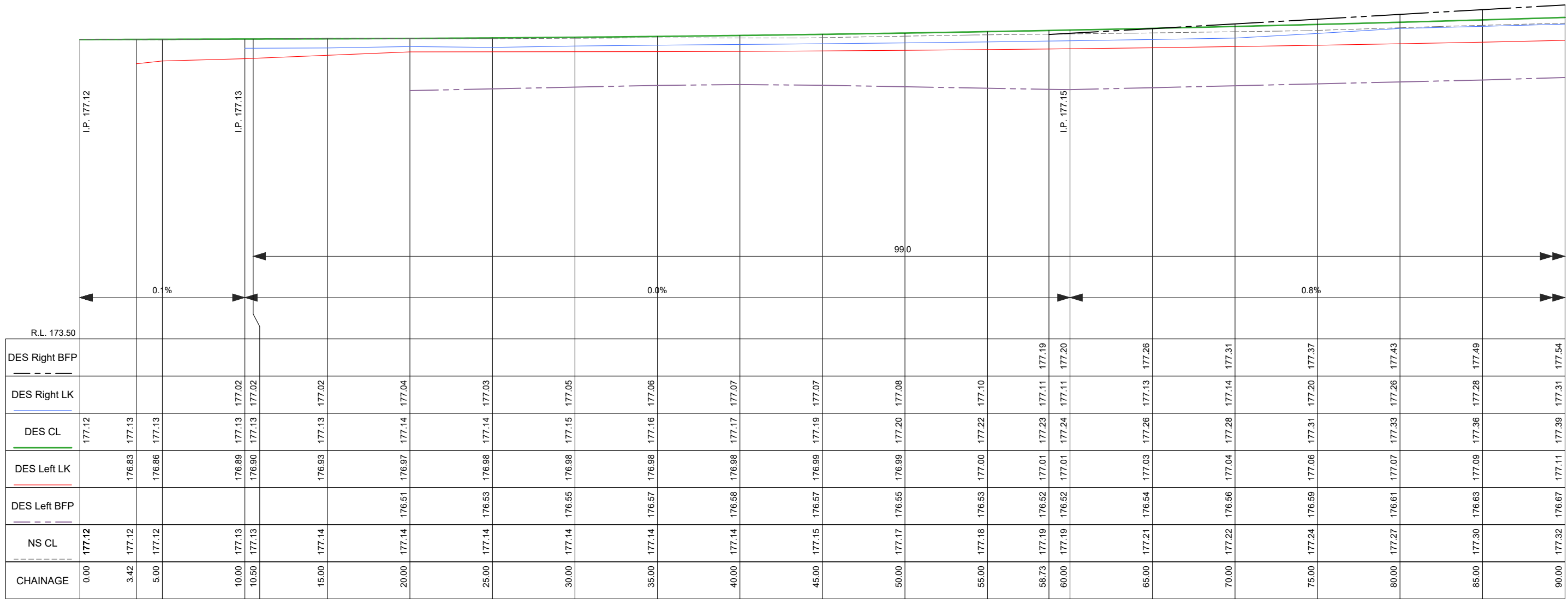
DETAIL LAYOUT

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**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023

Plotted By: ANDREW SMITH



AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

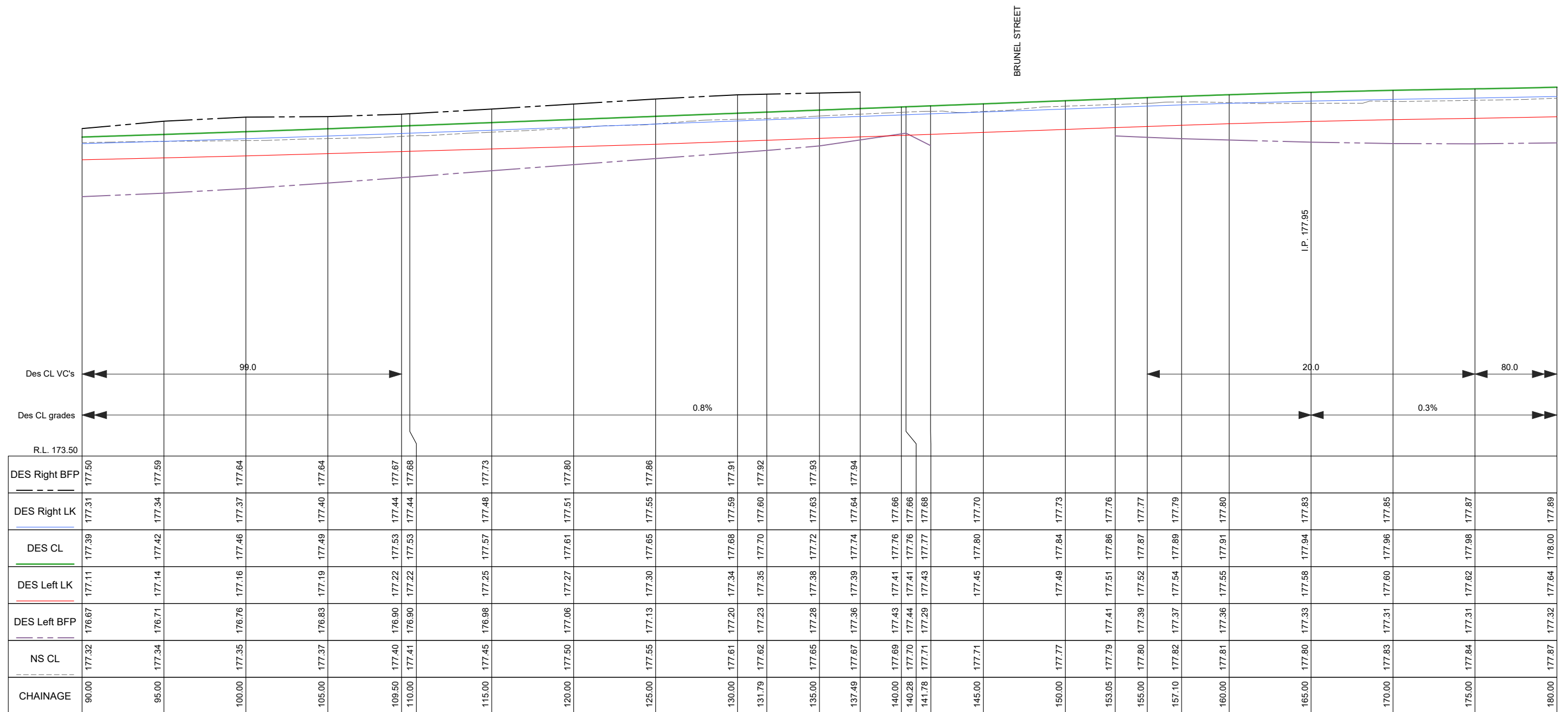
TRAFFIC SIGNALS

LONGITUDINAL SECTION

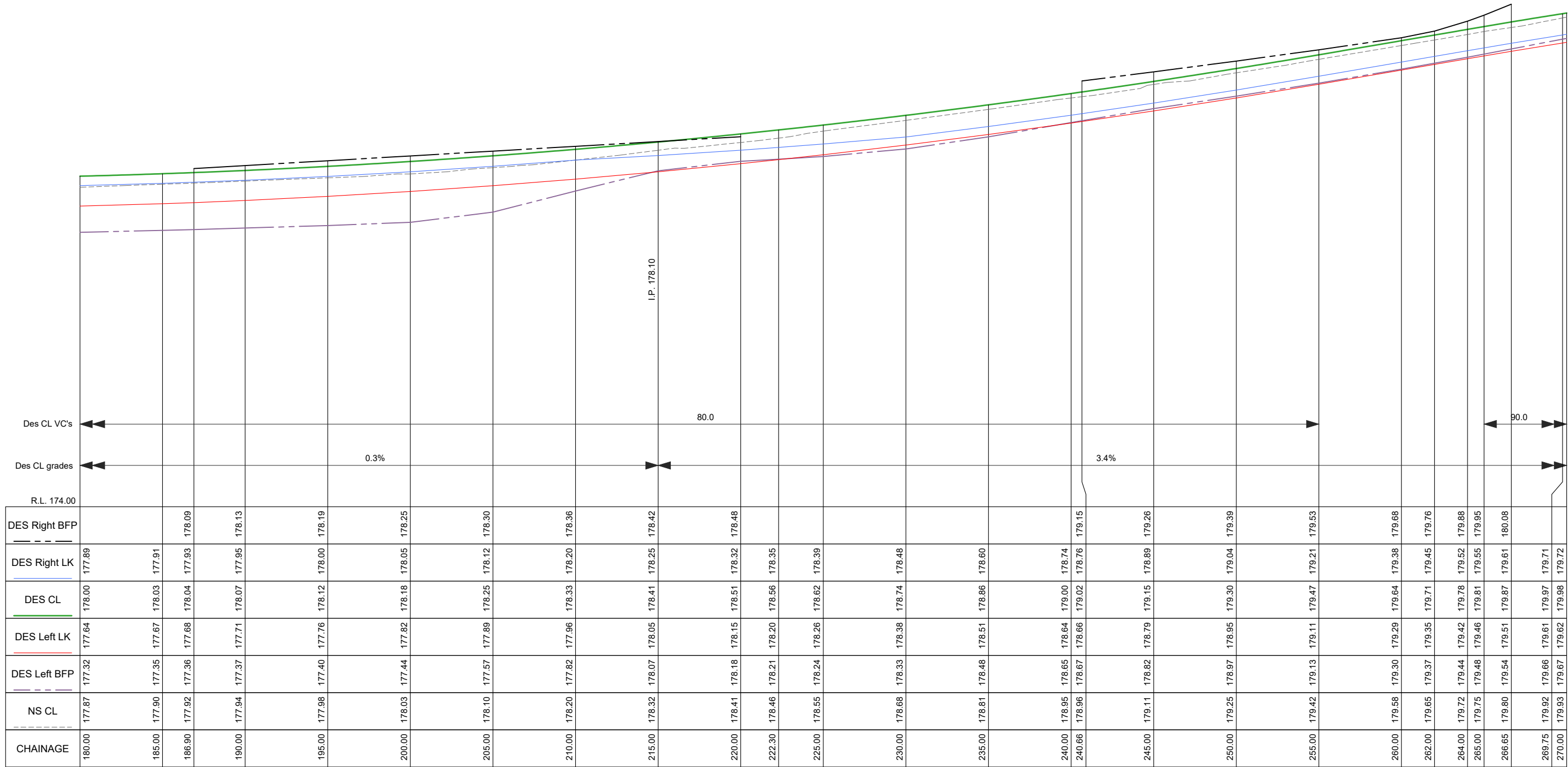
Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 13 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH

[illegible]

Survey	ADRIAN CUMMINS & ASSOC.		13/09/2021
Design	A.SMITH		04/10/2021
Checked	L. OLIVER		XXXXXX
Approved by	N. SARTORI		XXXXXX
Scale: As Shown		Revision : A	
Original sheet size: A3		File : GB4900.dwg	
Sheet: 14 OF 39	Reference: GB4900		



CL MIDLAND LONGITUDINAL SECTION CH 180.000 To 270.000
SCALES: H 1:250 V 1:50 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



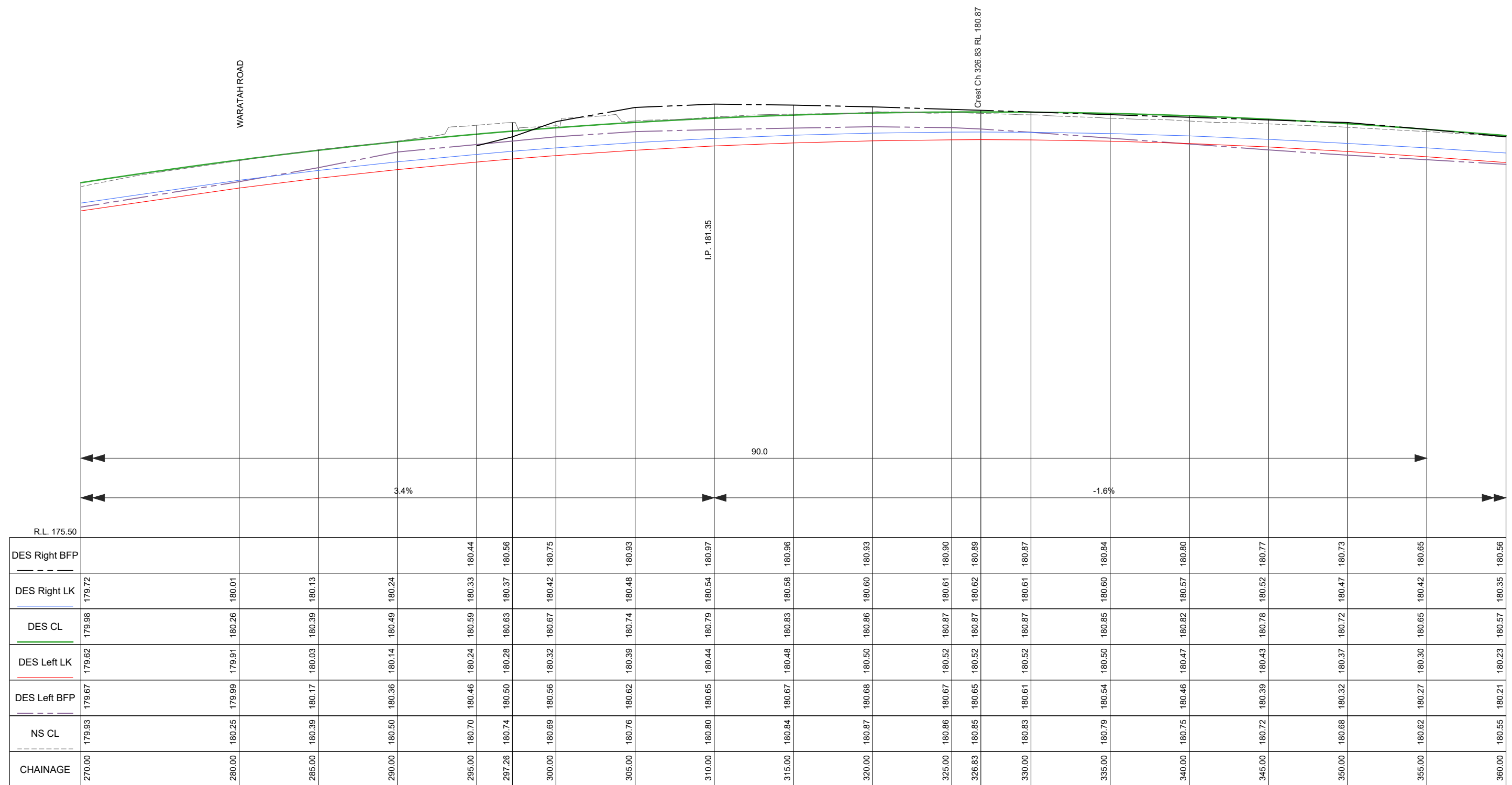
CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
LONGITUDINAL SECTION

Survey	ADRIAN CUMMINS & ASSOC.		13/09/2021
Design	A.SMITH		04/10/2021
Checked	L. OLIVER		XXXXX
Approved by	N. SARTORI		XXXXX
Scale: As Shown	Revision : A		
Original sheet size: A3	File : GB4900.dwg		
Sheet: 15 OF 39	Reference: GB4900		

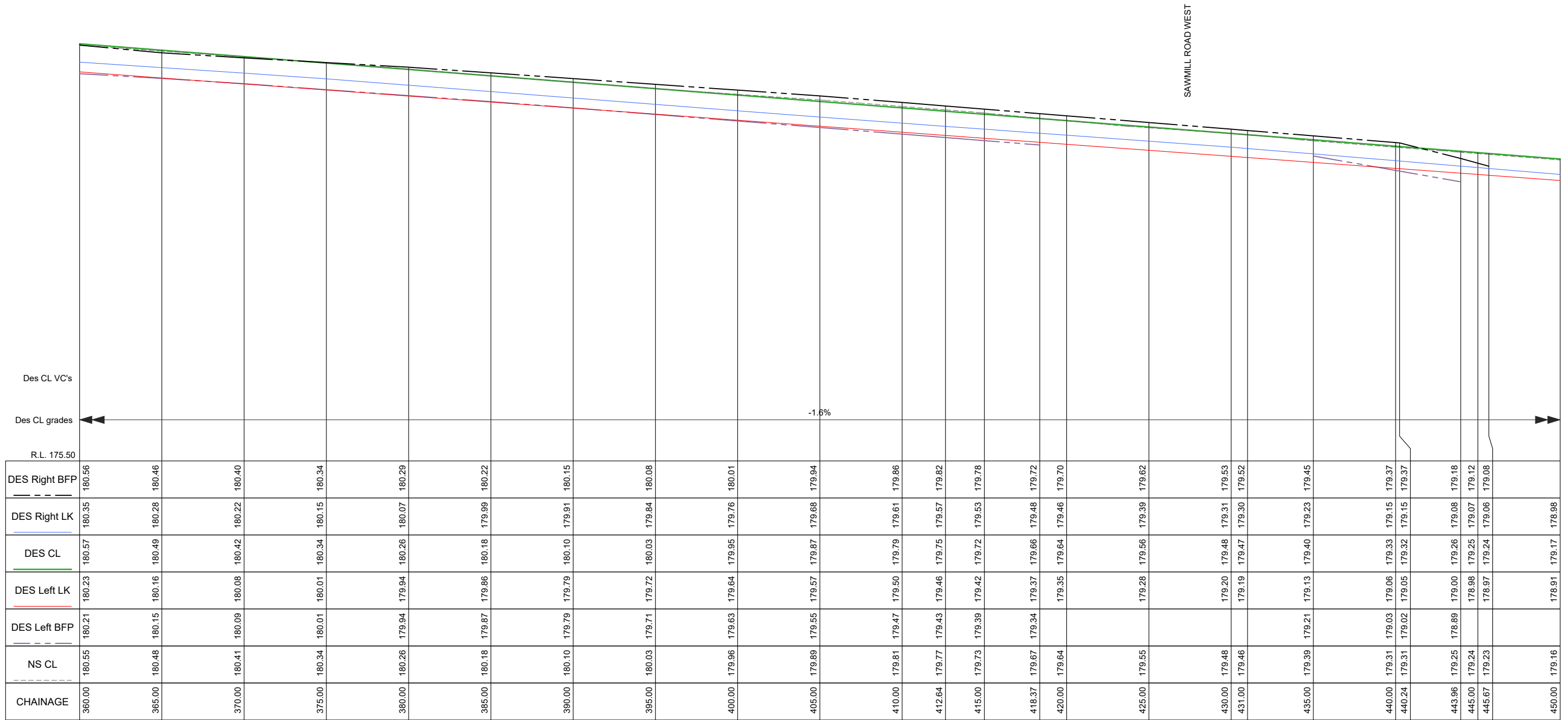
**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

Survey	ADRIAN CUMMINS & ASSOC.		13/09/2021
Design	A.SMITH		04/10/2021
Checked	L. OLIVER		XXXXXX
Approved by	N. SARTORI		XXXXXX
Scale: As Shown		Revision : A	
Original sheet size: A3		File : GB4900.dwg	
Sheet: 16 OF 39	Reference: GB4900		



CL MIDLAND LONGITUDINAL SECTION CH 360.000 To 450.000
SCALES: H 1:250 V 1:50 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



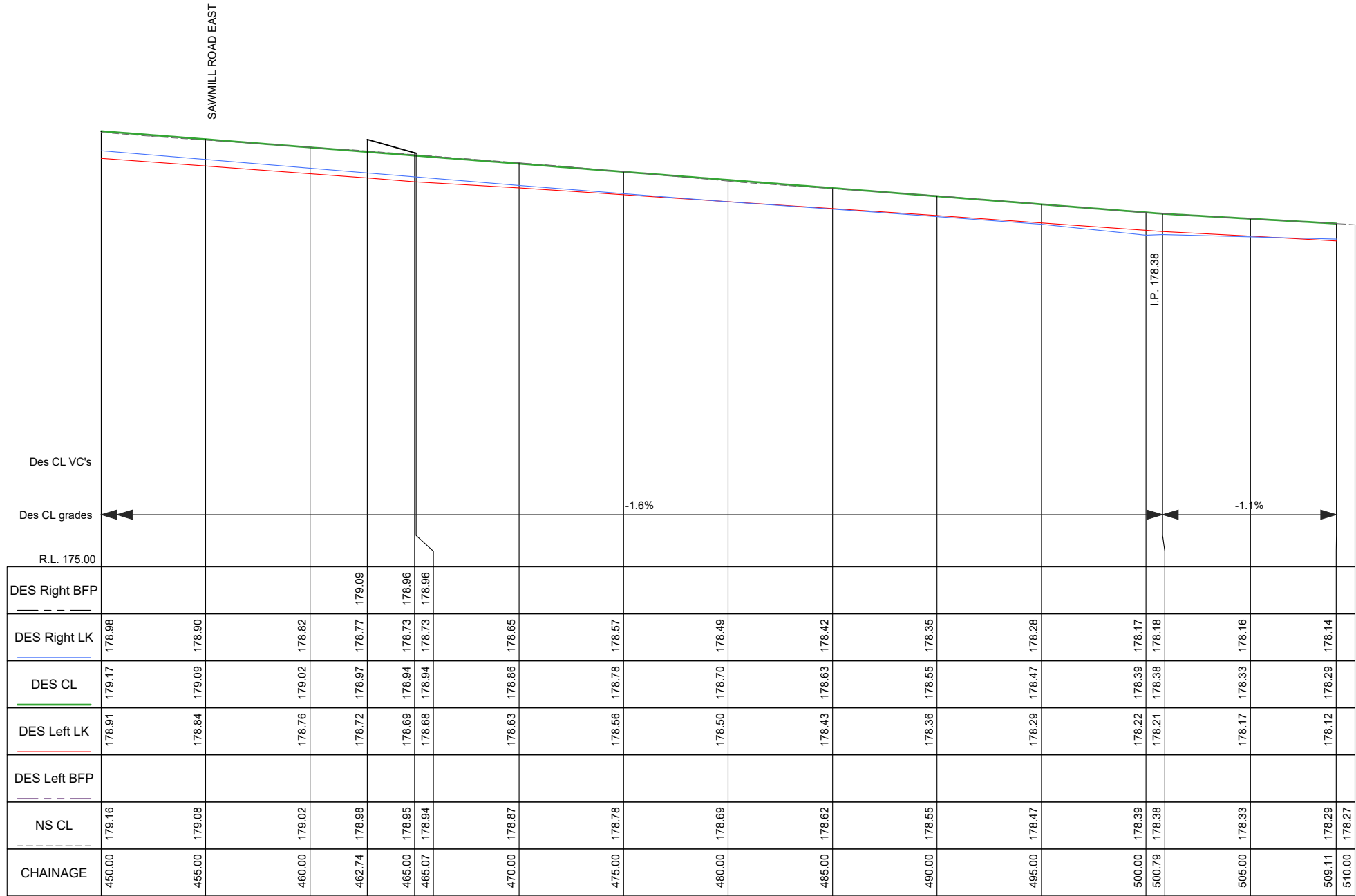
CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
LONGITUDINAL SECTION

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 17 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



CL MIDLAND LONGITUDINAL SECTION CH 450.000 To 510.000
SCALES: H 1:250 V 1:50 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

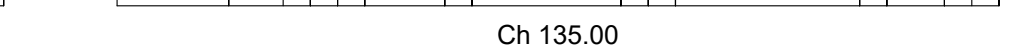
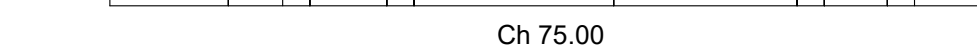
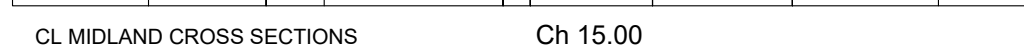
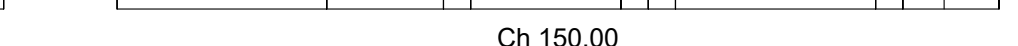
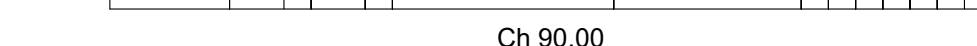
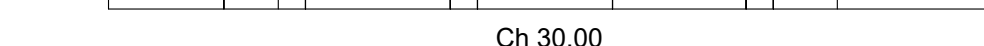
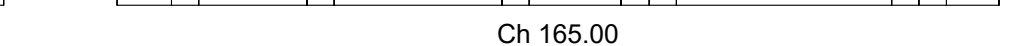
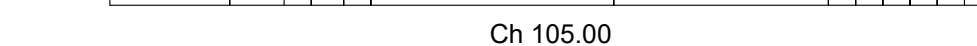
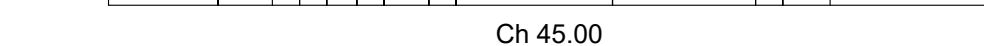
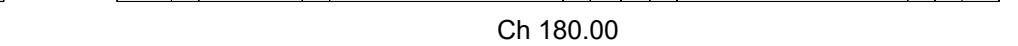
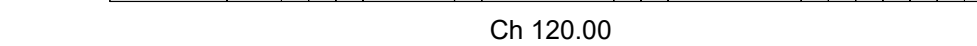
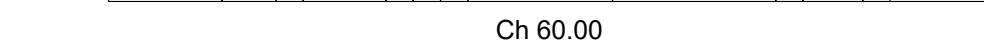


CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
LONGITUDINAL SECTION

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 18 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

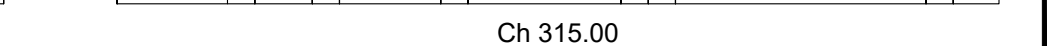
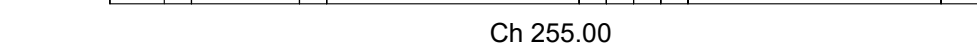
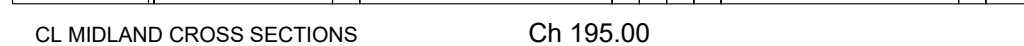
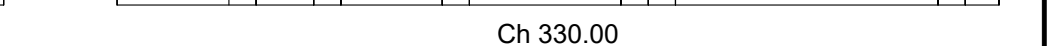
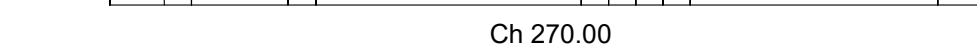
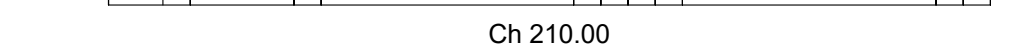
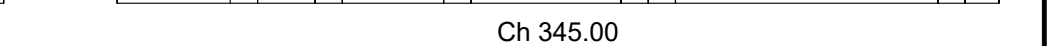
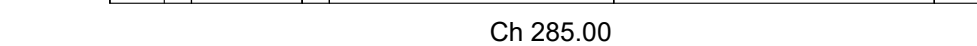
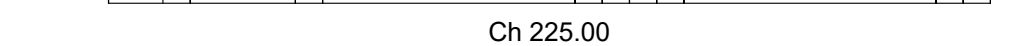
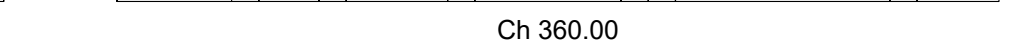
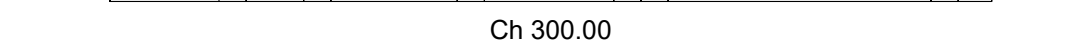
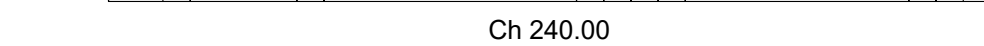


Ch 15.00

CITY OF GREATER BENDIGO	
	MIDLAND HWY / WARATAH RD HUNTLY TRAFFIC SIGNALS
	CROSS SECTIONS

**PRELIMINARY DESIGN
DRAFT 11**

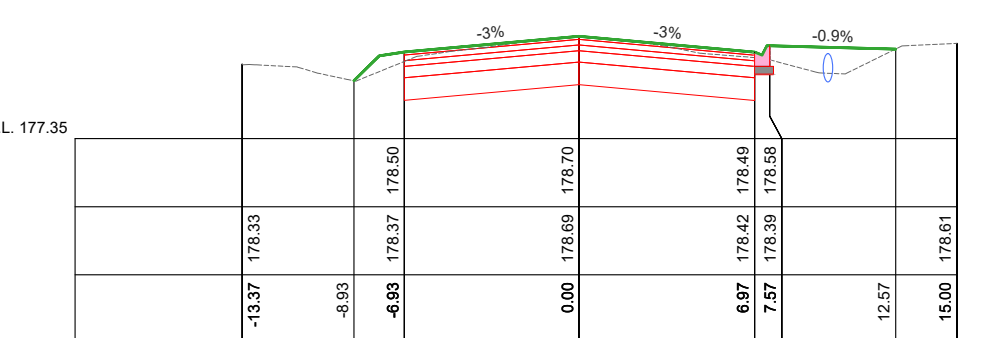
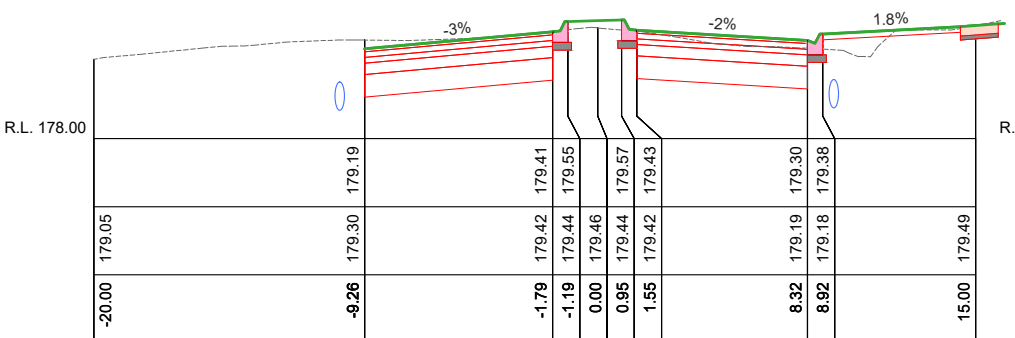
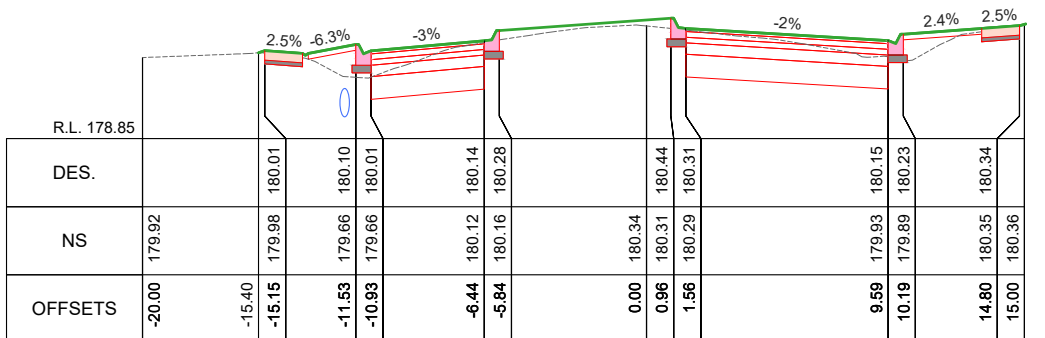
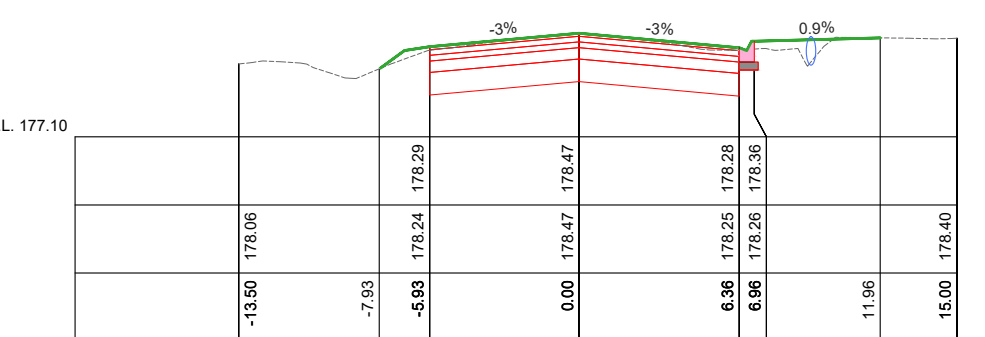
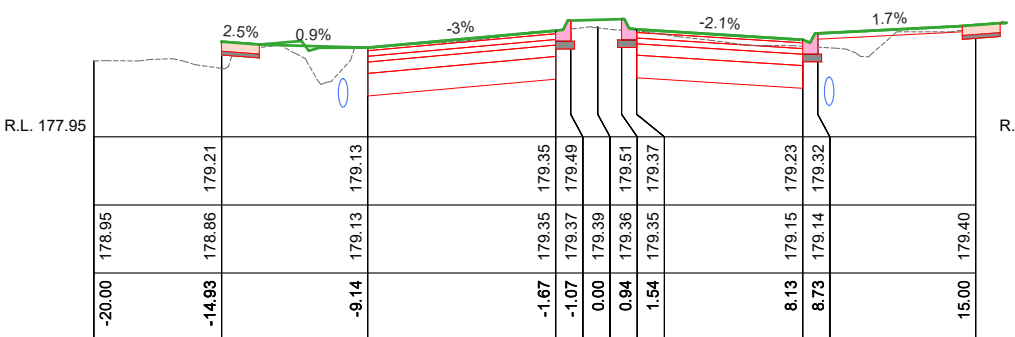
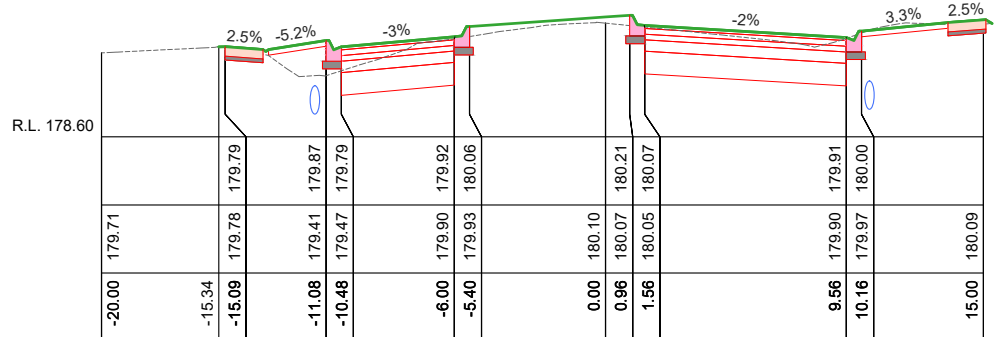
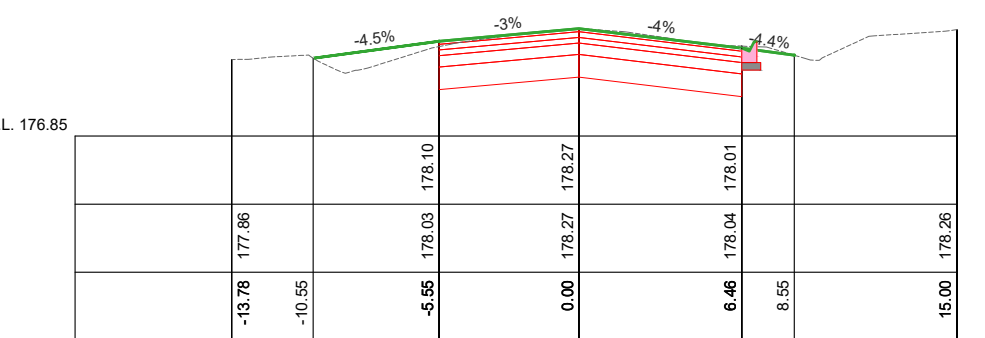
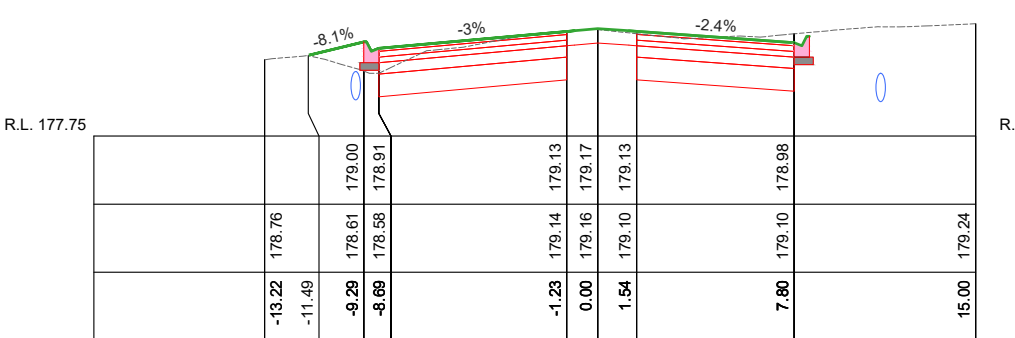
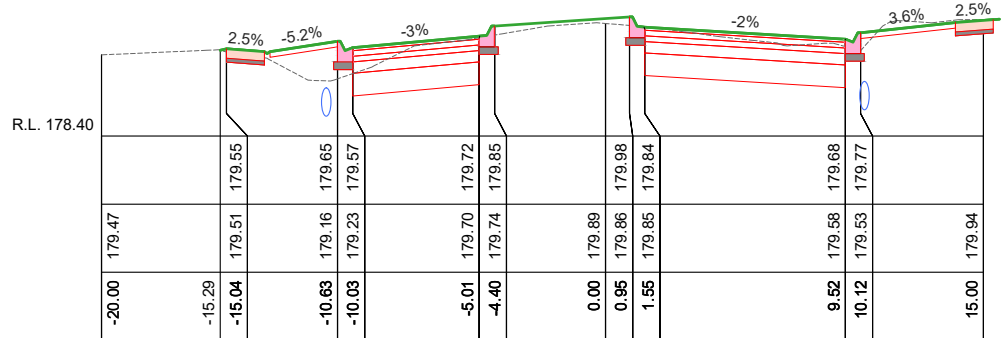
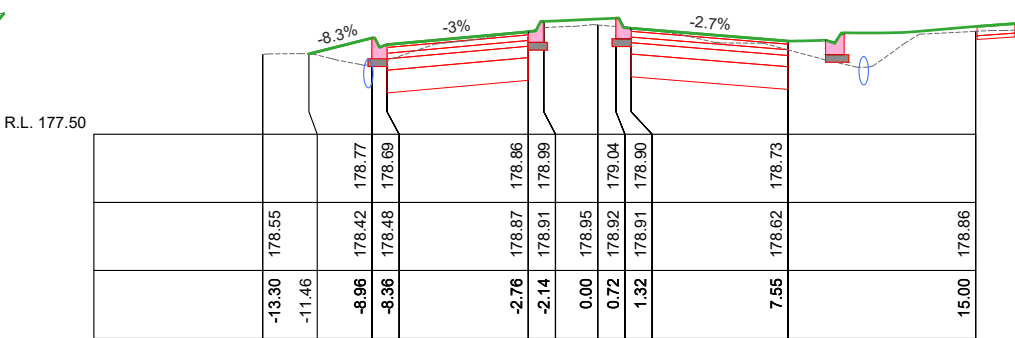
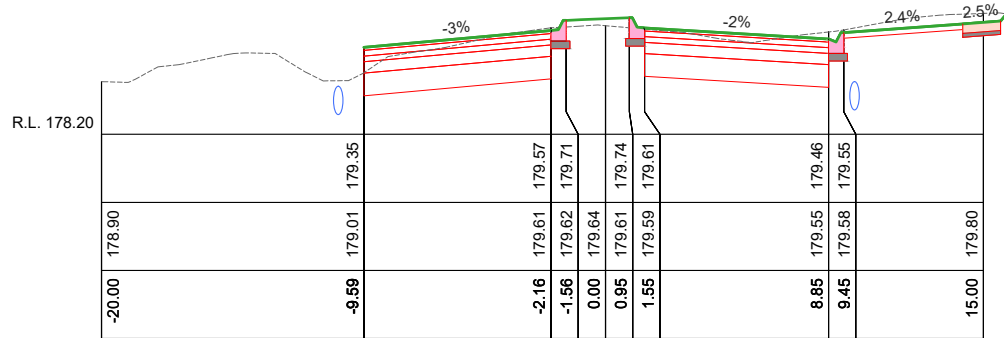
Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



Ch 195.00

CITY OF GREATER BENDIGO	
	MIDLAND HWY / WARATAH RD HUNTLY TRAFFIC SIGNALS
	CROSS SECTIONS

**PRELIMINARY DESIGN
DRAFT 11**



CL MIDLAND CROSS SECTIONS
SCALES: H 1:300 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

TRAFFIC SIGNALS

CROSS SECTIONS

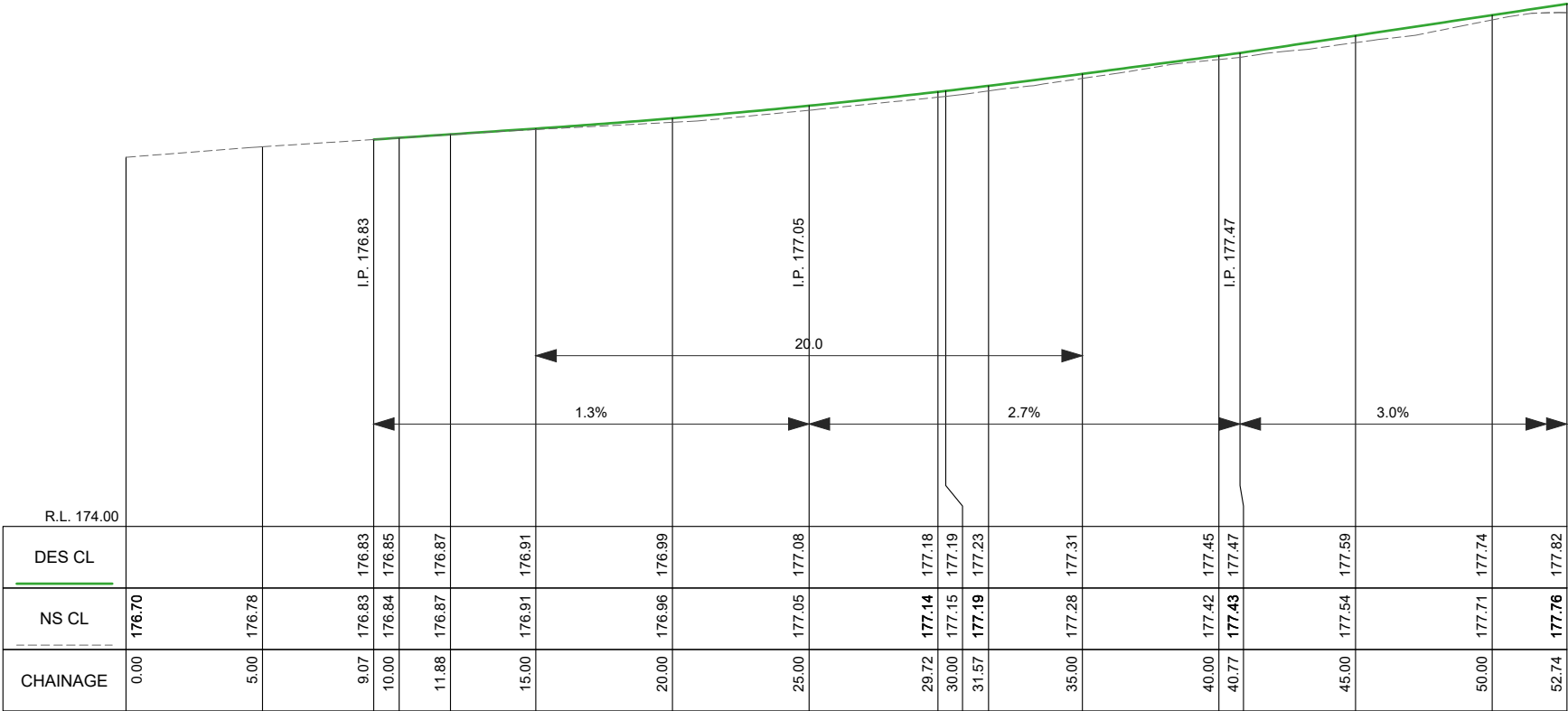
Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale:	As Shown	Revision : A
Original sheet size:	A3	File : GB4900.dwg
Sheet:	21 OF 39	Reference: GB4900

PRELIMINARY DESIGN

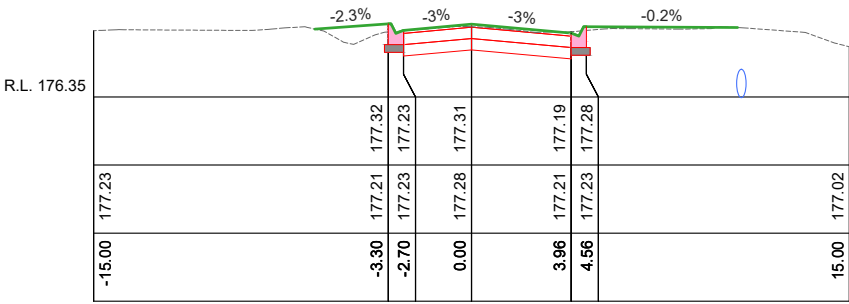
DRAFT 11

Plot Date: 30/11/2023

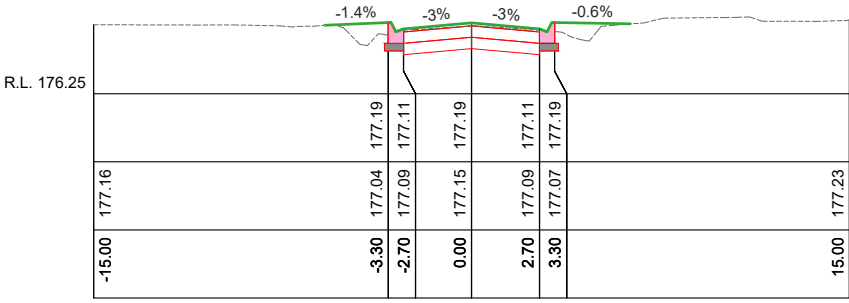
Plotted By: ANDREW SMITH



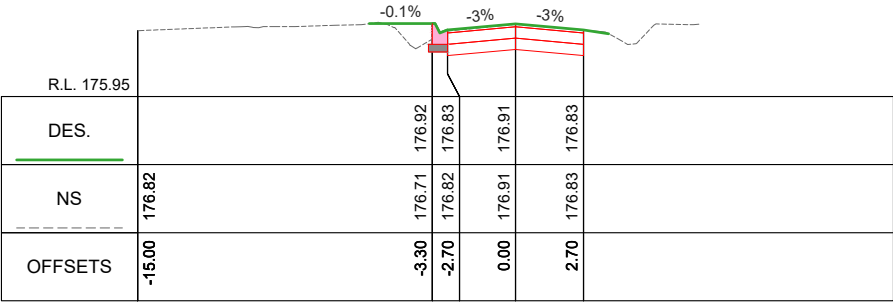
CL-Brunel LONGITUDINAL SECTION CH 0.000 To 52.737
SCALES: H 1:250 V 1:50 (A3)



Ch 35.00



Ch 30.00



Ch 15.00

CL-Brunel CROSS SECTIONS
SCALES: H 1:300 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

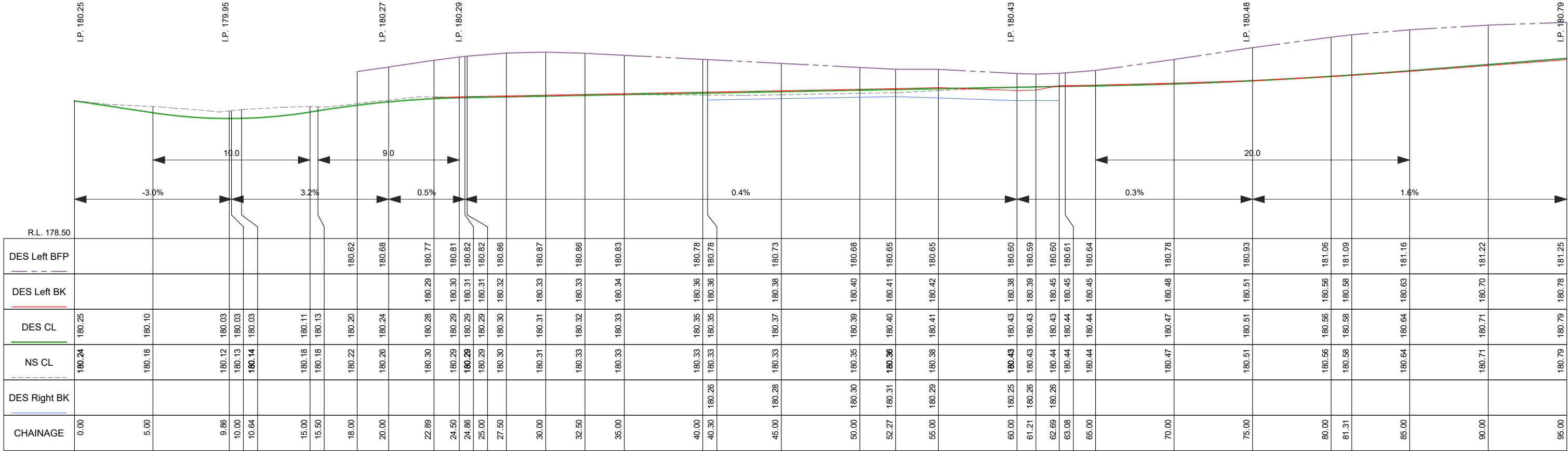
MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

LONGITUDINAL & CROSS SECTIONS

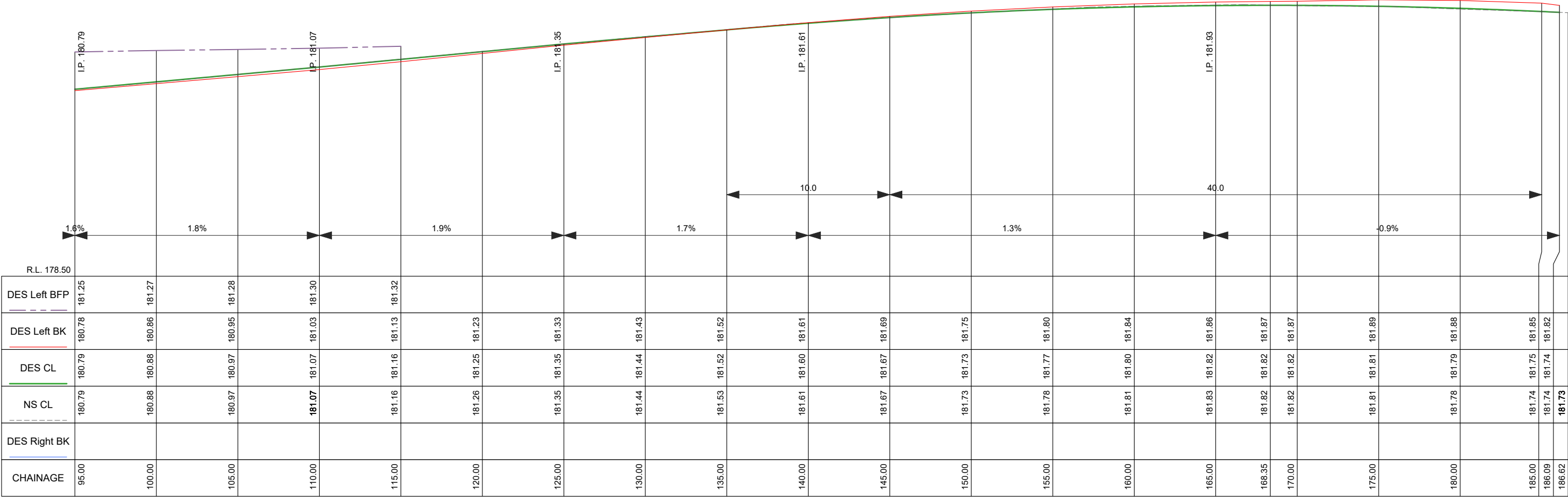
Survey	ADRIAN CUMMINS & ASSOC.		13/09/2021
Design	A.SMITH		04/10/2021
Checked	L. OLIVER		XXXXX
Approved by	N. SARTORI		XXXXX
Scale: As Shown	Revision : A		
Original sheet size: A3	File : GB4900.dwg		
Sheet: 22 OF 39	Reference: GB4900		

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



CL-Waratah LONGITUDINAL SECTION CH 0.000 To 95.000
SCALES: H 1:250 V 1:50 (A3)



CL-Waratah LONGITUDINAL SECTION CH 95.000 To 186.622
SCALES: H 1:250 V 1:50 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

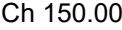
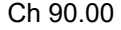
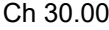
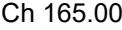
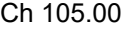
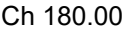
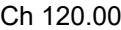
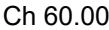
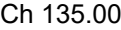
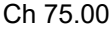
TRAFFIC SIGNALS

LONGITUDINAL SECTION

Survey	ADRIAN CUMMINS & ASSOC.		13/09/2021
Design	A.SMITH		04/10/2021
Checked	L. OLIVER		XXXXX
Approved by	N. SARTORI		XXXXX
Scale: As Shown	Revision : A		
Original sheet size: A3	File : GB4900.dwg		
Sheet: 23 OF 39	Reference: GB4900		

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH

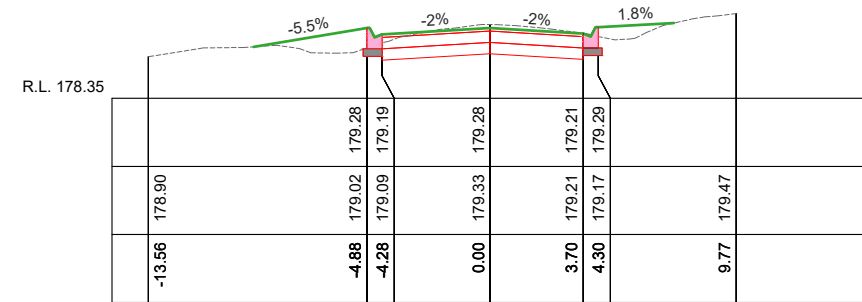


CL-Waratah CROSS SECTIONS
 SCALES: H 1:300 V 1:100 (A3)

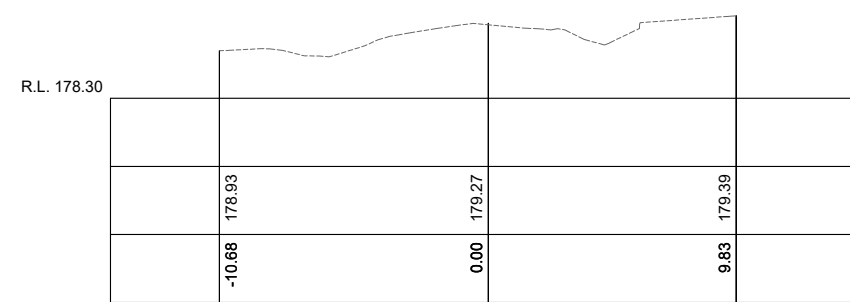
CITY OF GREATER BENDIGO	
	MIDLAND HWY / WARATAH RD HUNTLY TRAFFIC SIGNALS
	CROSS SECTIONS

**PRELIMINARY DESIGN
DRAFT 11**

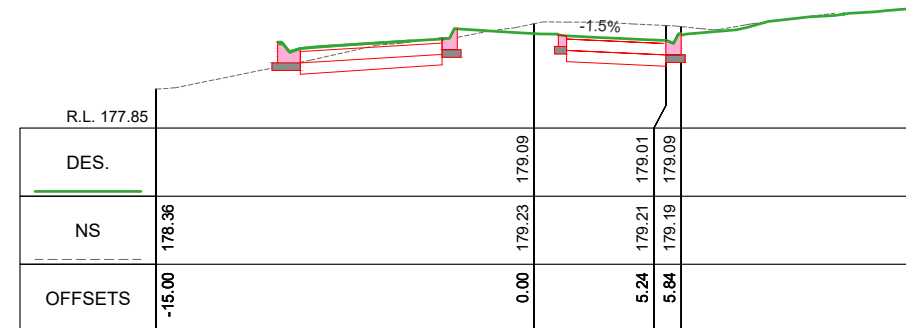
Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



Ch 30.00

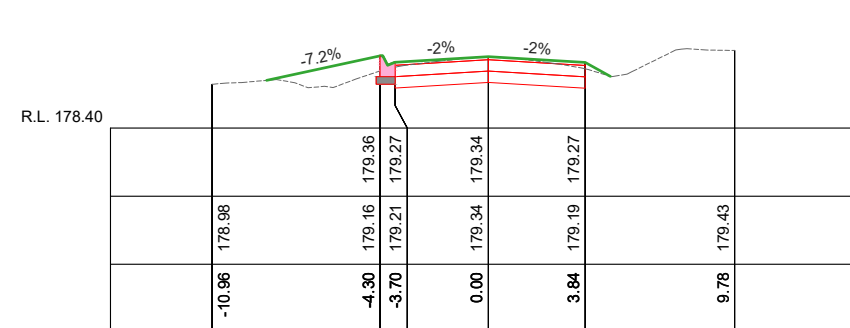


Ch 60.00

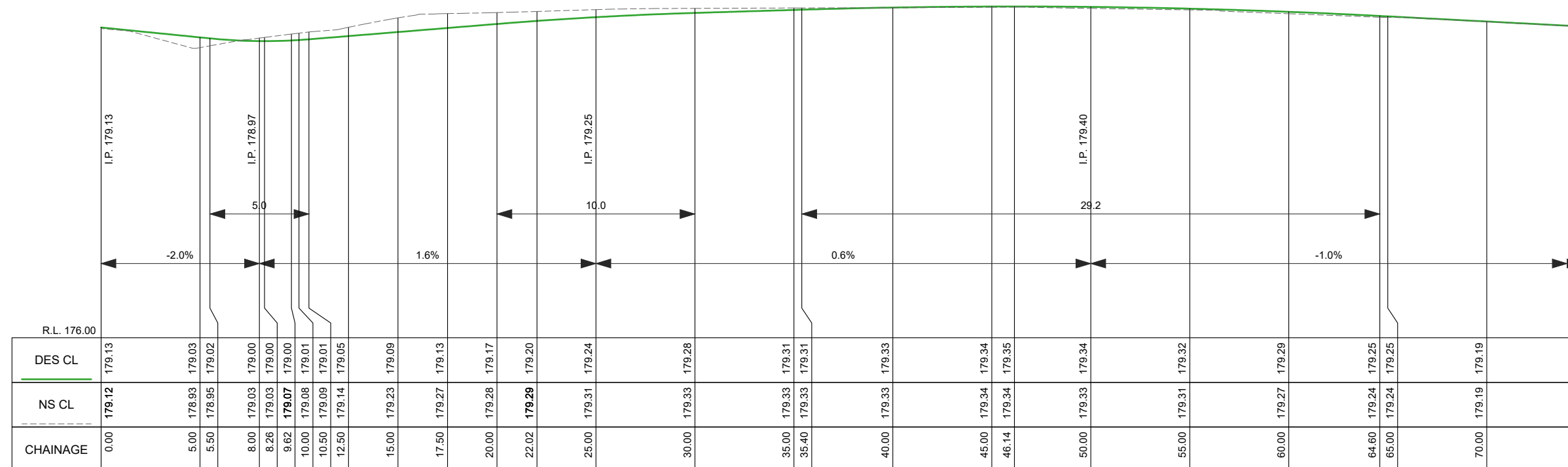


CL-Sawmill EAST CROSS SECTIONS
SCALES: H 1:300 V 1:100 (A3)

Ch 15.00



Ch 45.00



CL-Sawmill East LONGITUDINAL SECTION CH 0.000 To 74.813
SCALES: H 1:250 V 1:50 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD

HUNTLY

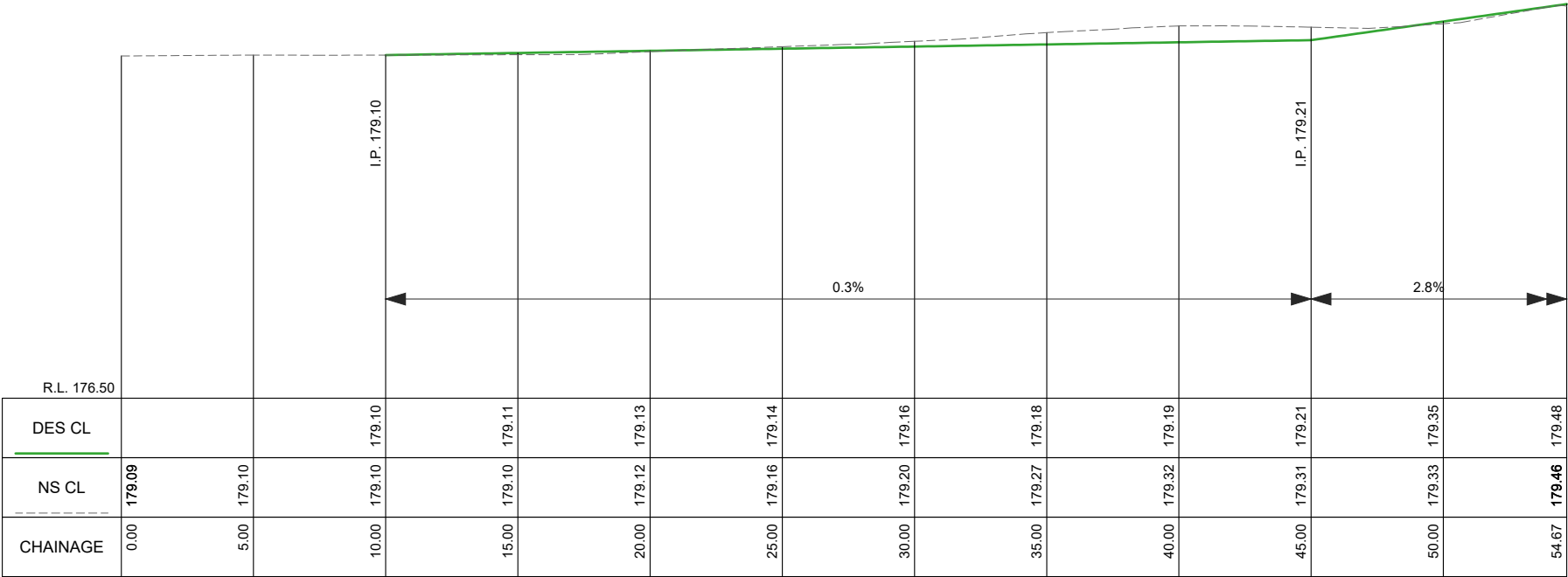
TRAFFIC SIGNALS

CROSS SECTIONS

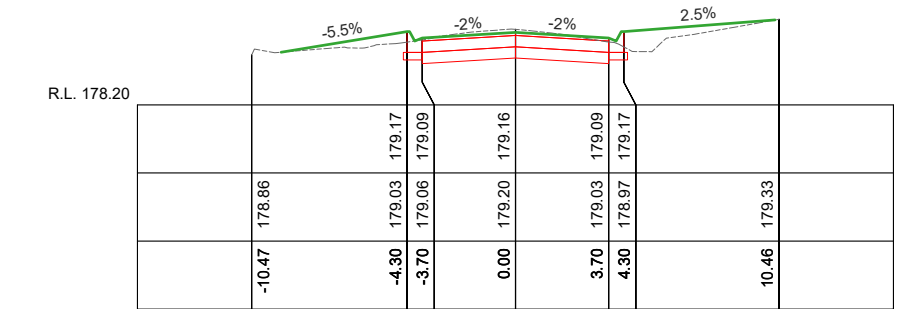
Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 25 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

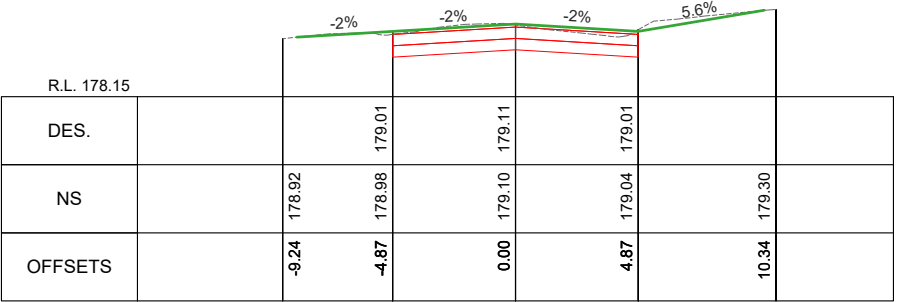
Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



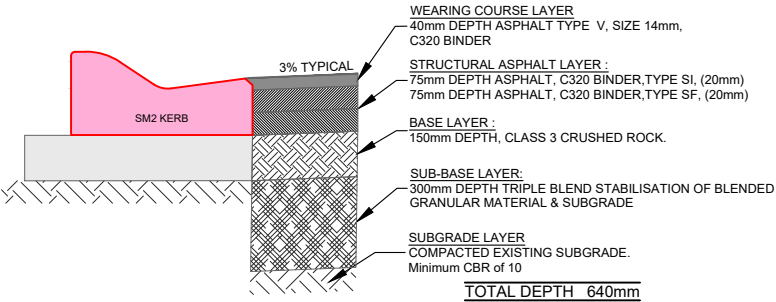
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SCALES: H 1:250 V 1:50 (A3)



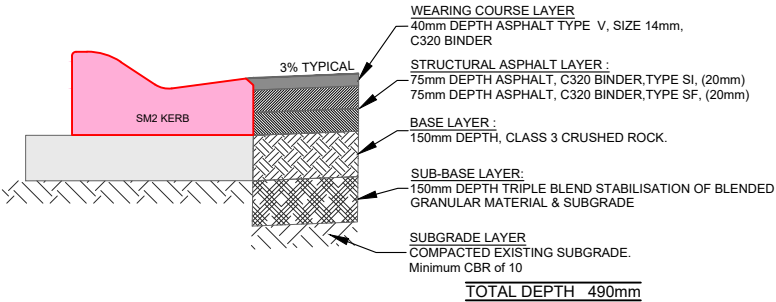
Ch 30.00



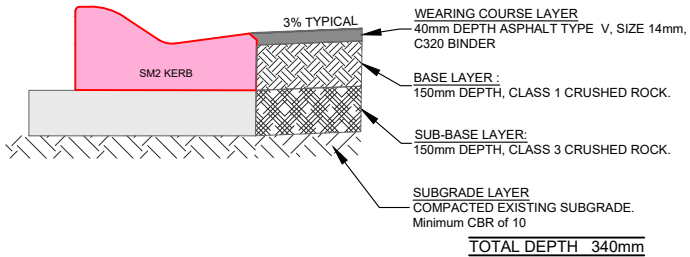
CL-Sawmill-WEST CROSS SECTIONS Ch 15.00
SCALES: H 1:300 V 1:100 (A3)



MIDLAND HIGHWAY - TYPICAL ROAD PAVEMENT
1 : 25



WARATAH ROAD - TYPICAL ROAD PAVEMENT
1 : 25



BRUNEL / SAWMILL ROAD - TYPICAL ROAD PAVEMENT
1 : 25

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

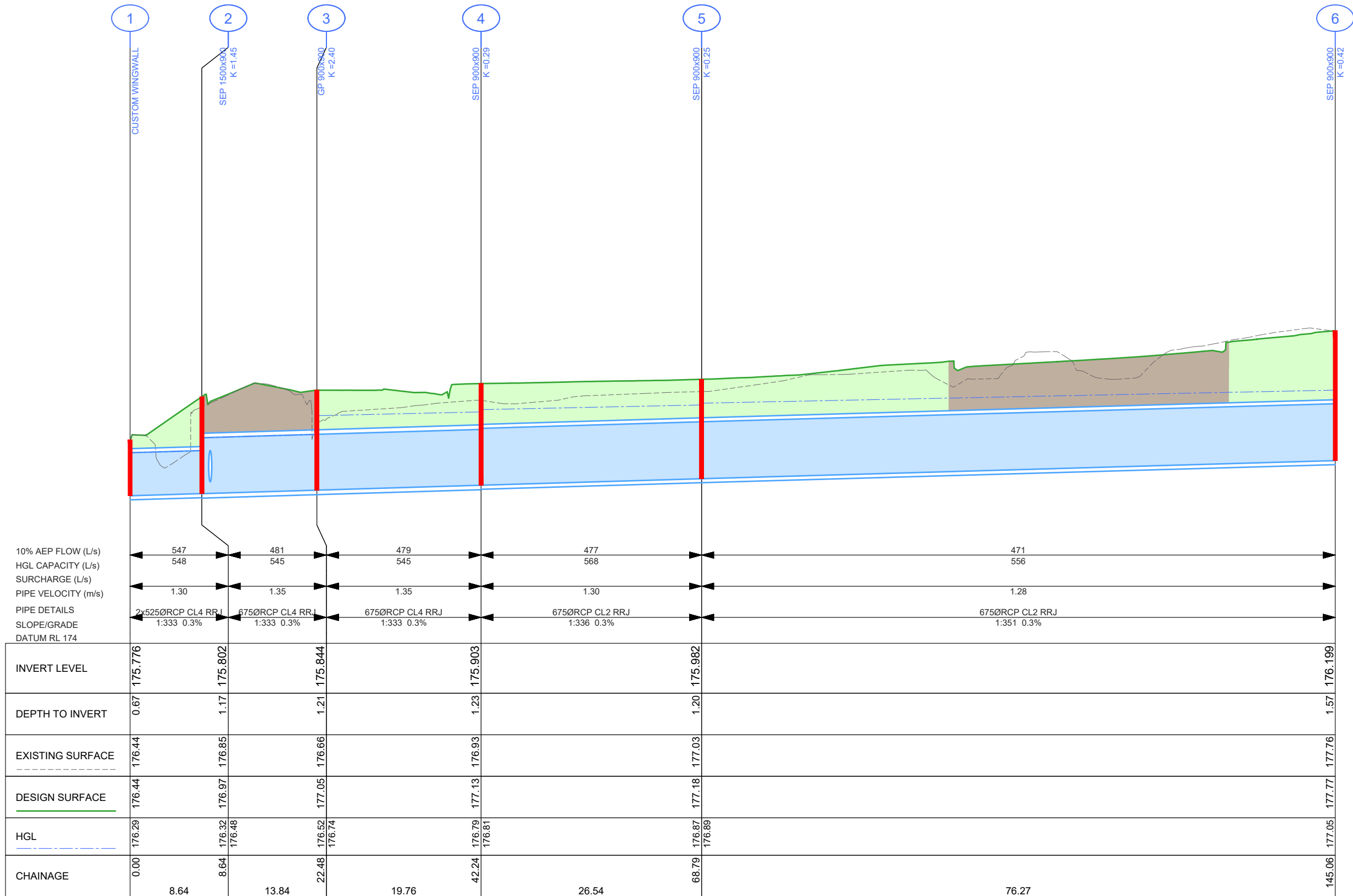


MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
SETOUT

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: -	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 26 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



DRAINAGE LONGITUDINAL SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

LEGEND

- EXISTING PIPE TO REMAIN

DESIGN PIPE / PIT or ENDWALL
- CoGB SD390 TRENCH BACKFILL (BEHIND KERB)

CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)

CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

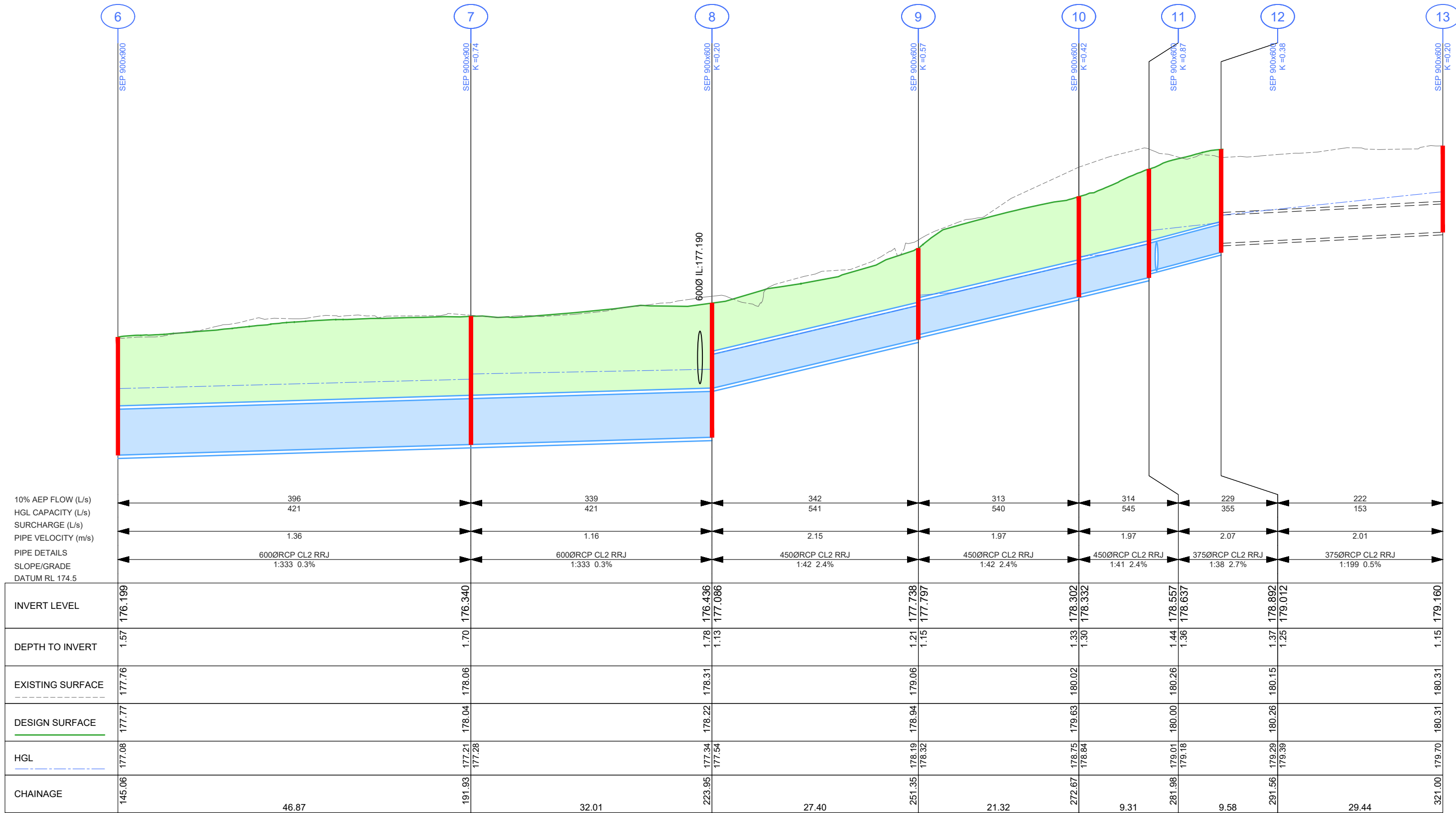


MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
DRAINAGE LONG SECTIONS

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File: GB4900.dwg	
Sheet: 27 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



DRAINAGE LONGITUDINAL SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

LEGEND

EXISTING PIPE TO REMAIN
DESIGN PIPE / PIT or ENDWALL

CoGB SD390 TRENCH BACKFILL (BEHIND KERB)
CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)
CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

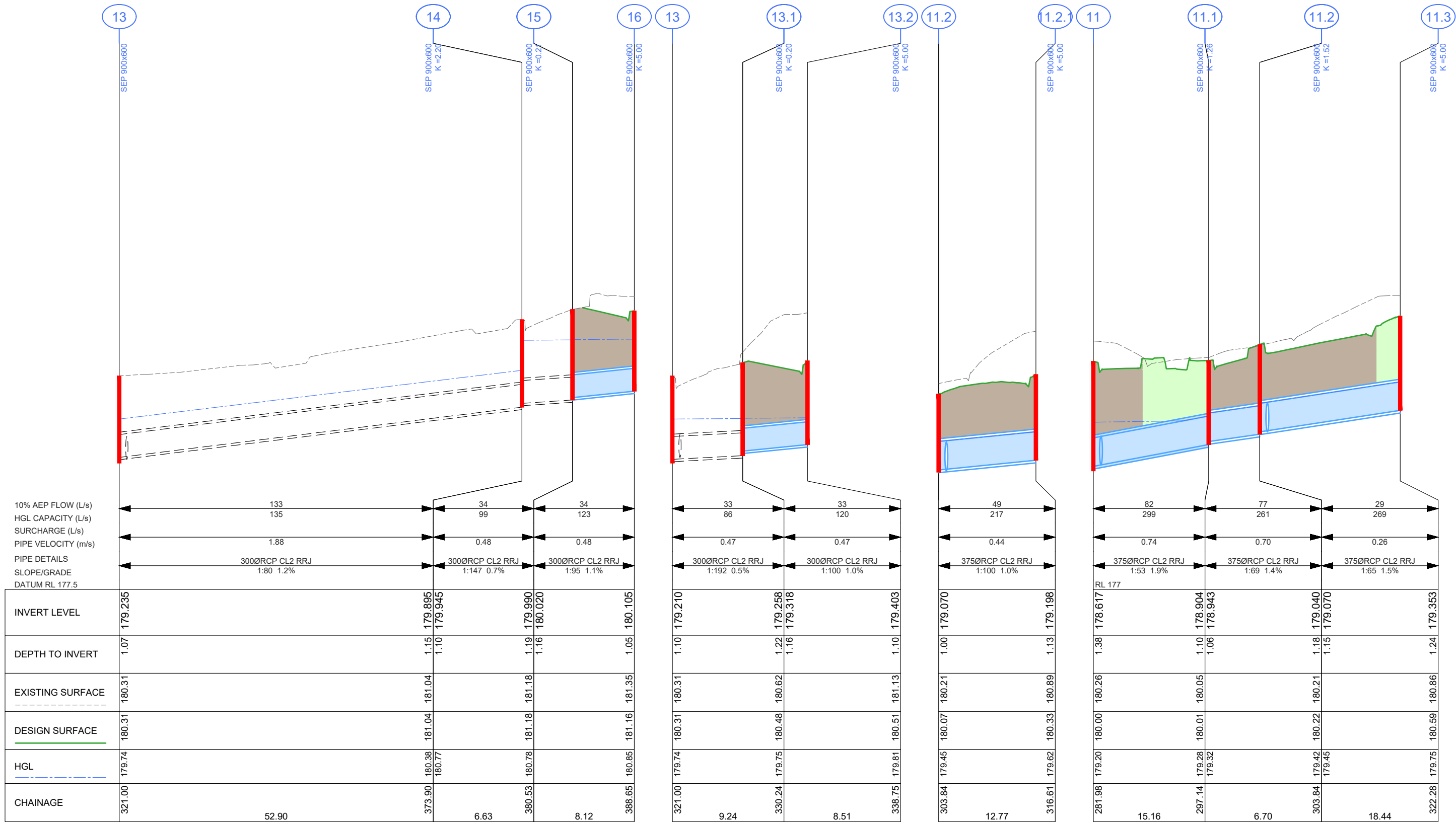


MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
DRAINAGE LONG SECTIONS

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 28 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



EXISTING PIPE TO REMAIN

DESIGN PIPE / PIT or ENDWALL

CoGB SD390 TRENCH BACKFILL (BEHIND KERB)

CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)

CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

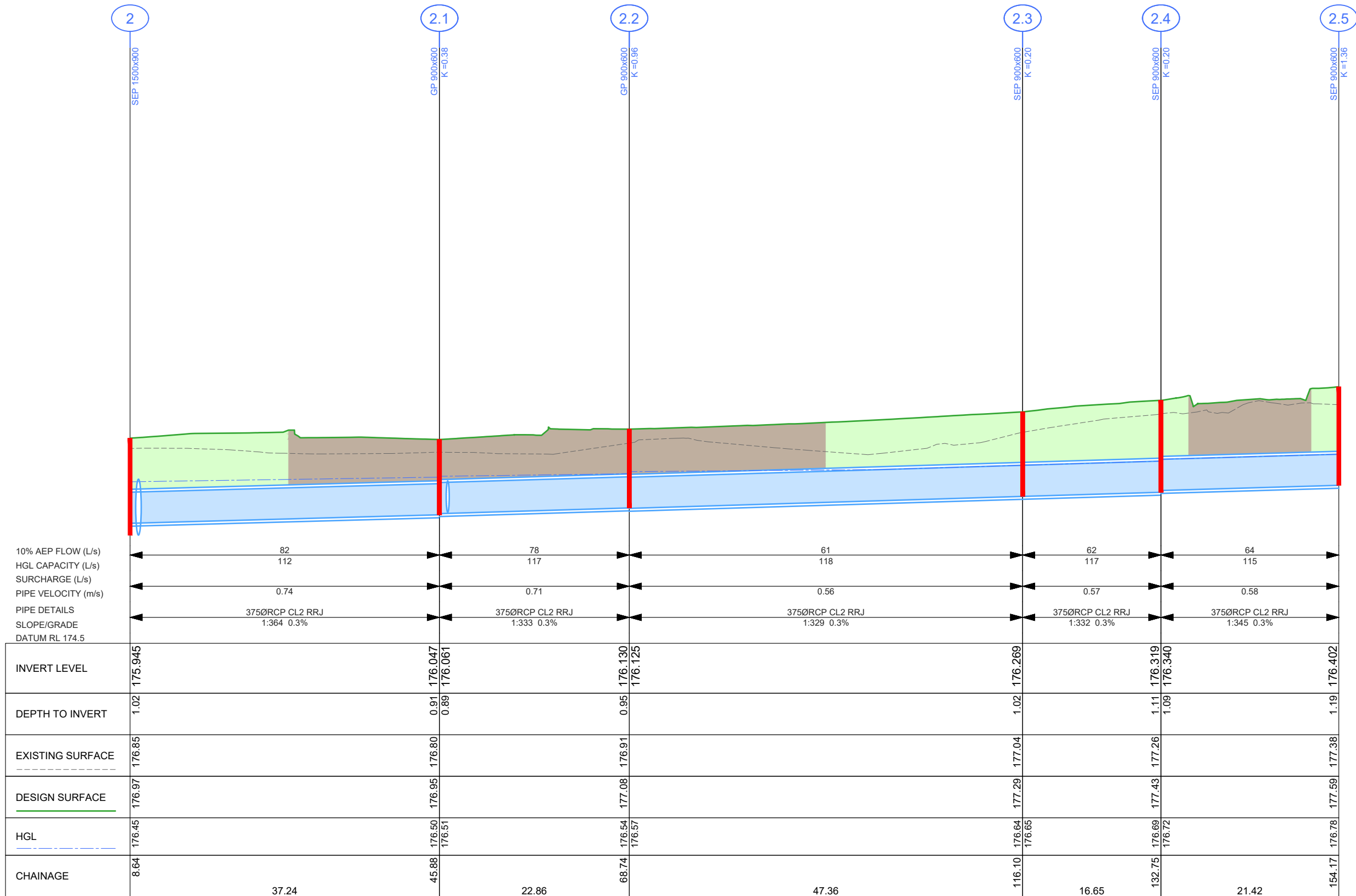
CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
DRAINAGE LONG SECTIONS

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 29 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



DRAINAGE LONGITUDINAL SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

LEGEND

	EXISTING PIPE TO REMAIN		CoGB SD390 TRENCH BACKFILL (BEHIND KERB)
	DESIGN PIPE / PIT or ENDWALL		CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)
			CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

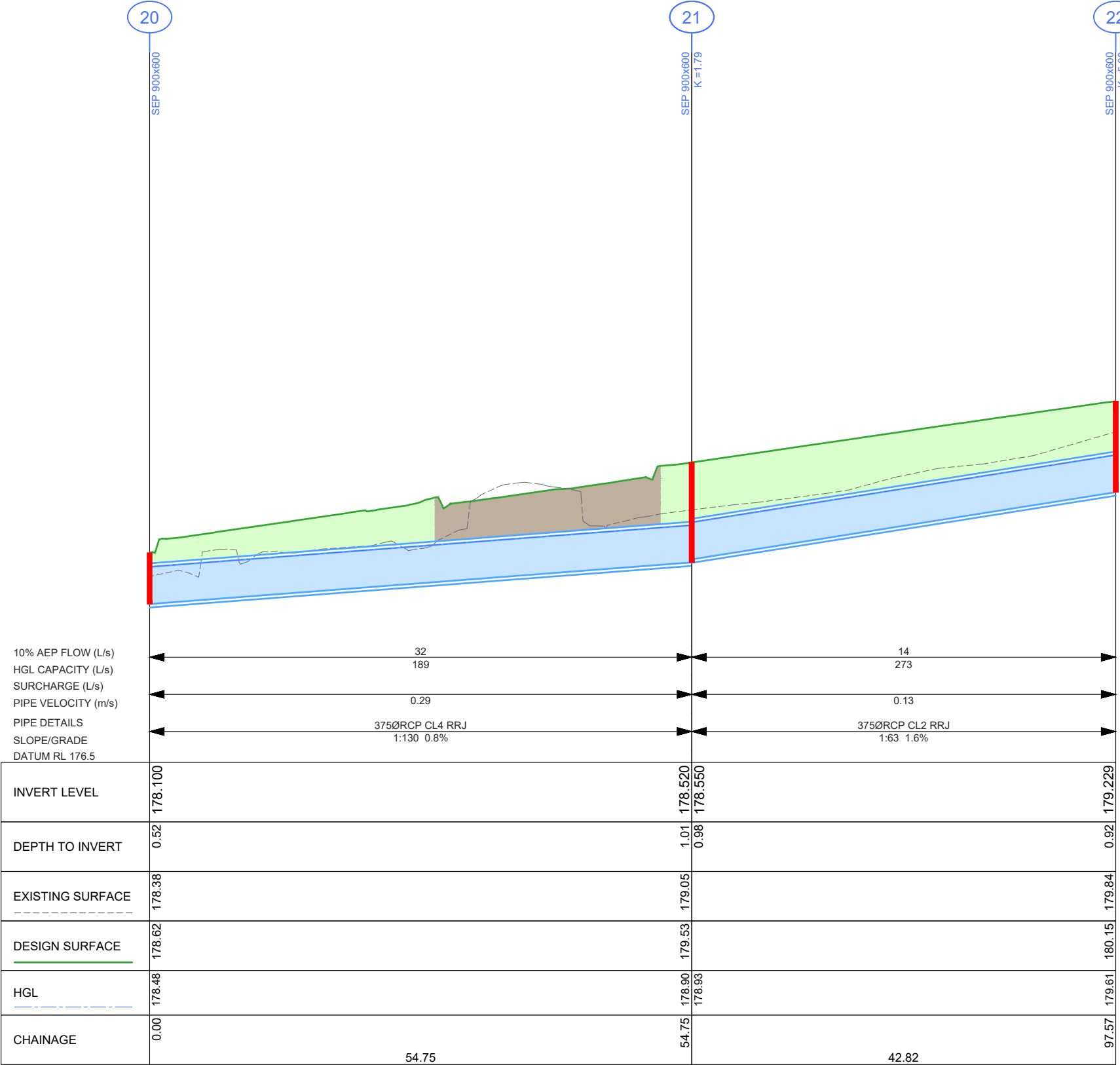


MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
DRAINAGE LONG SECTIONS

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
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Approved by	N. SARTORI	XXXXX
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Sheet: 30 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



Pit Schedule											
Pit No.	Pit Type	Standard Drawing	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
			(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
1	CUSTOM WINGWALL	VR SD 1811	-	-			525	175.776	0.674	176.450	
2	SEP 1500x900	CoGB SD 590B-D-G-T	900	1500	525	175.802	675	175.802	1.167	176.969	
							375	175.945			
2.1	GP 900x600	CoGB SD 590A-D-K	600	900	375	176.047	375	176.061	0.903	176.950	
							375	176.077			
2.1.1	GP 900x600	CoGB SD 590A-D-K	600	900	375	176.084			0.814	176.898	
2.2	SEP 900x600	CoGB SD 590A-D-K	600	900	375	176.130	375	176.125	0.948	177.078	
2.3	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	176.269	375	176.269	1.017	177.286	
2.4	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	176.319	375	176.340	1.107	177.426	
2.5	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	176.402	375	176.431	1.186	177.588	
2.6	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	176.610	375	177.224	1.565	178.175	
2.7	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	178.454			1.285	179.739	
3	GP 900x900	CoGB SD 590B-D-G-T	900	900	675	175.844	675	175.844	1.205	177.049	
4	SEP 900x900	CoGB SD 590B-D-G-T	900	900	675	175.903	675	175.903	1.225	177.128	
5	SEP 900x900	CoGB SD 590B-D-G-T	900	900	675	175.982	675	175.982	1.197	177.179	
6	SEP 900x900	CoGB SD 590B-D-G-T	900	900	675	176.199	600	176.199	1.566	177.765	
7	SEP 900x900	CoGB SD 590B-D-G-T	900	900	600	176.340	600	176.340	1.704	178.043	
8	SEP 900x600	CoGB SD 590A-D-G-T	600	900	600	176.436	450	177.086	1.783	178.218	
9	SEP 900x600	CoGB SD 590A-D-G-T	600	900	450	177.738	450	177.797	1.206	178.944	
10	SEP 900x600	CoGB SD 590A-D-G-T	600	900	450	178.302	450	178.332	1.330	179.632	
11	SEP 900x600	CoGB SD 590A-D-G-T	600	900	450	178.557	375	178.637	1.440	179.997	
							375	178.617			
11.1	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	178.904	375	178.943	0.981	179.885	
11.2	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	179.040	375	179.058	1.028	180.068	
							375	179.070			
11.2.1	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	179.198			1.127	180.325	
11.3	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	179.382			1.211	180.594	
12	SEP 900x600	Extend Existing CoGB SD 590A-D-G-T	600	900	375	178.892	375	179.012	1.356	180.248	
13	SEP 900x600	Existing SEP	600	900	375	179.160	300	179.235	1.146	180.306	
							300	179.210			
13.1	SEP 900x600	CoGB SD 590A-D-L-S	600	900	300	179.258	300	179.318	1.221	180.479	
13.2	SEP 900x600	CoGB SD 590A-D-G-T	600	900	300	179.403			1.066	180.469	
14	SEP 900x600	Existing Pit	600	900	300	179.895	300	179.945	1.150	181.045	
15	SEP 900x600	CoGB SD 590A-D-L-S	600	900	300	179.990	300	180.020	1.188	181.178	
20	SEP 900x600	VR SD1991	600	900			375	178.100	0.517	178.617	
21	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	178.520	375	178.550	1.009	179.529	
22	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	179.229			0.919	180.148	
23	SEP 900x600	VR SD1991	600	900			375	178.035	0.465	178.500	
24	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	178.227	375	178.245	0.815	179.042	
25	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	178.343	375	178.343	0.950	179.293	
26	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	178.582	375	178.612	1.060	179.642	
27	SEP 900x600	CoGB SD 590A-D-G-T	600	900	375	179.124			1.056	180.180	

LEGEND

EXISTING PIPE TO REMAIN

DESIGN PIPE / PIT or ENDWALL

CoGB SD390 TRENCH BACKFILL (BEHIND KERB)

CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)

CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

DRAINAGE LONG SECTIONS & PIT SCHEDULE

Survey

ADRIAN CUMMINS & ASSOC.

13/09/2021

Design

A.SMITH

04/10/2021

Checked

L. OLIVER

XXXXX

Approved by

N. SARTORI

XXXXX

Scale: As Shown

Revision : A

Original sheet size: A3

File : GB4900.dwg

Sheet:

32 OF 39

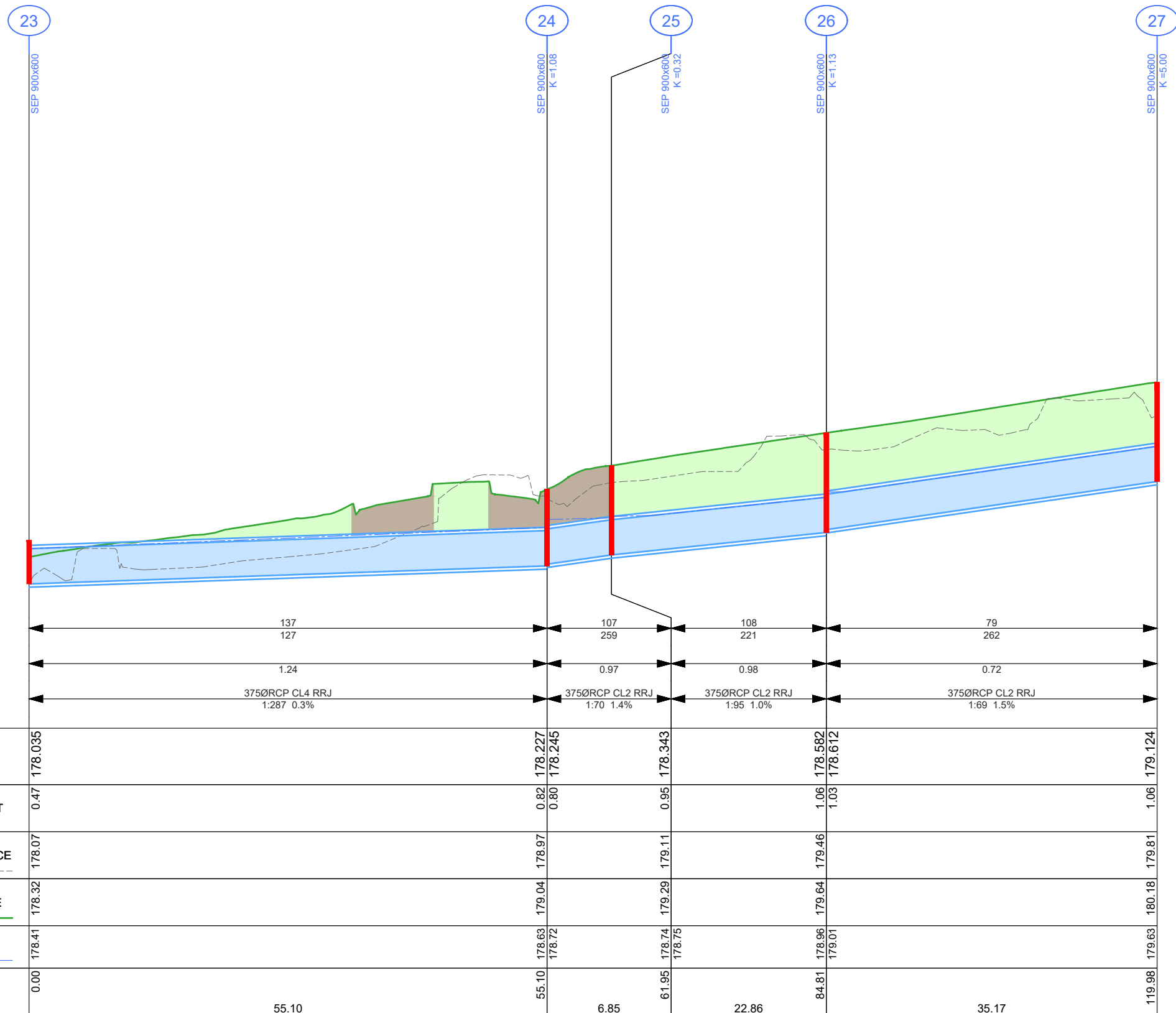
Reference:

GB4900

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023

Plotted By: ANDREW SMITH



DRAINAGE LONGITUDINAL SECTION
SCALES: HORIZONTAL 1:500 VERTICAL 1:50

LEGEND

-  EXISTING PIPE TO REMAIN
-  DESIGN PIPE / PIT or ENDWALL
-  CoGB SD390 TRENCH BACKFILL (BEHIND KERB)
-  CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)
-  CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO



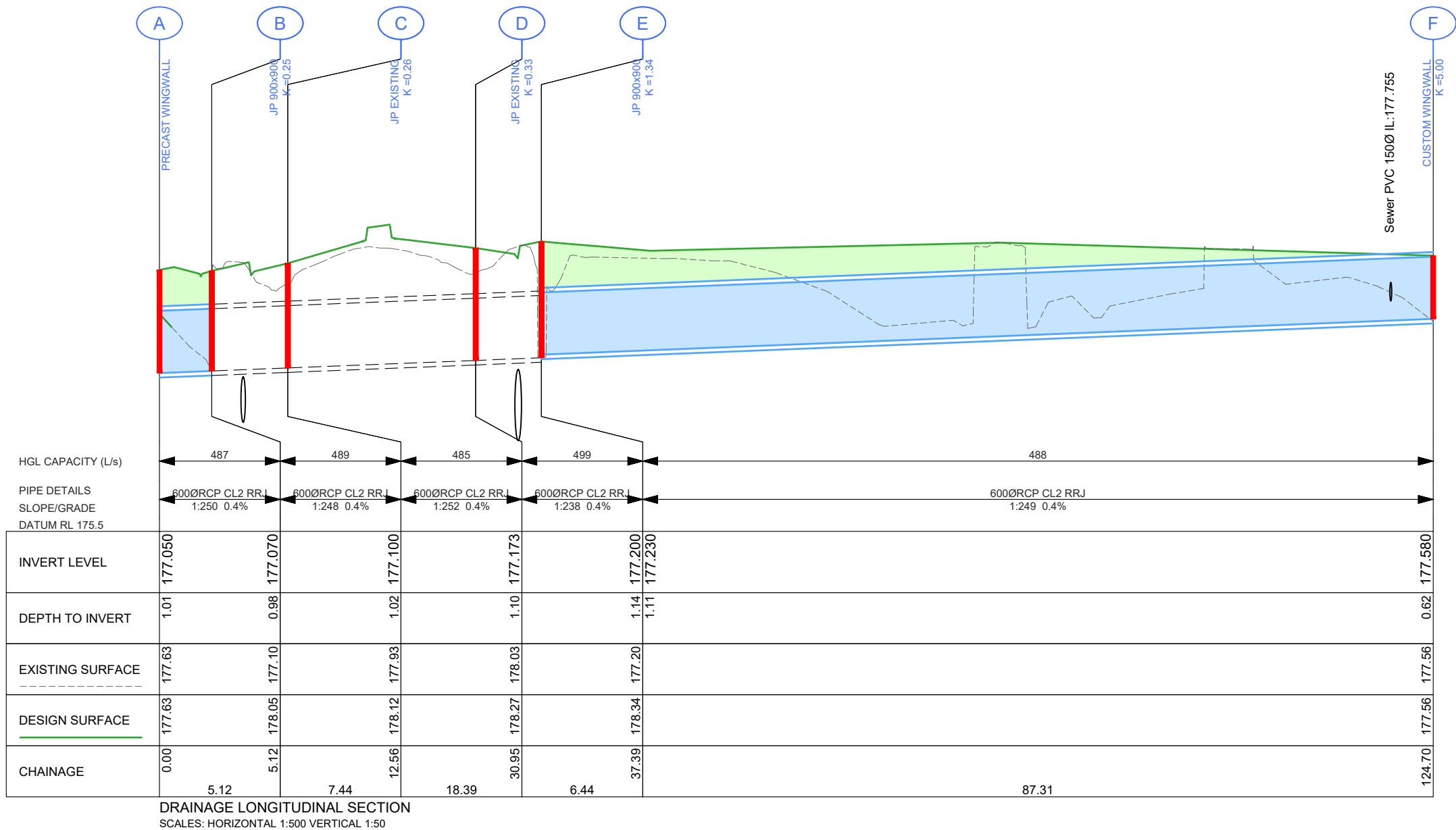
MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
DRAINAGE LONG SECTION

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 33 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH

Pit Schedule - Race											
Pit No.	Pit Type	Standard Drawing	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comments
			(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
A	PRECAST WINGWALL	Endwall	-	-			600	177.050	1.010	178.060	
B	JP 900x900	CoGB SD590B-E-L-T	900	900	600	177.070	600	177.070	0.980	178.050	
C	JP EXISTING	Existing	-	-	600	177.100	600	177.100	1.026	178.126	Extend pit to new seal
D	JP EXISTING	Existing	-	-	600	177.173	600	177.173	1.103	178.276	Extend pit to new seal
E	JP 900x900	CoGB SD590B-E-L-T	900	900	600	177.200	600	177.230	1.138	178.338	
F	CUSTOM WINGWALL	Trash Rack	-	-	600	177.580			0.620	178.200	



LEGEND

EXISTING PIPE TO REMAIN

DESIGN PIPE / PIT or ENDWALL

CoGB SD390 TRENCH BACKFILL (BEHIND KERB)

CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)

CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

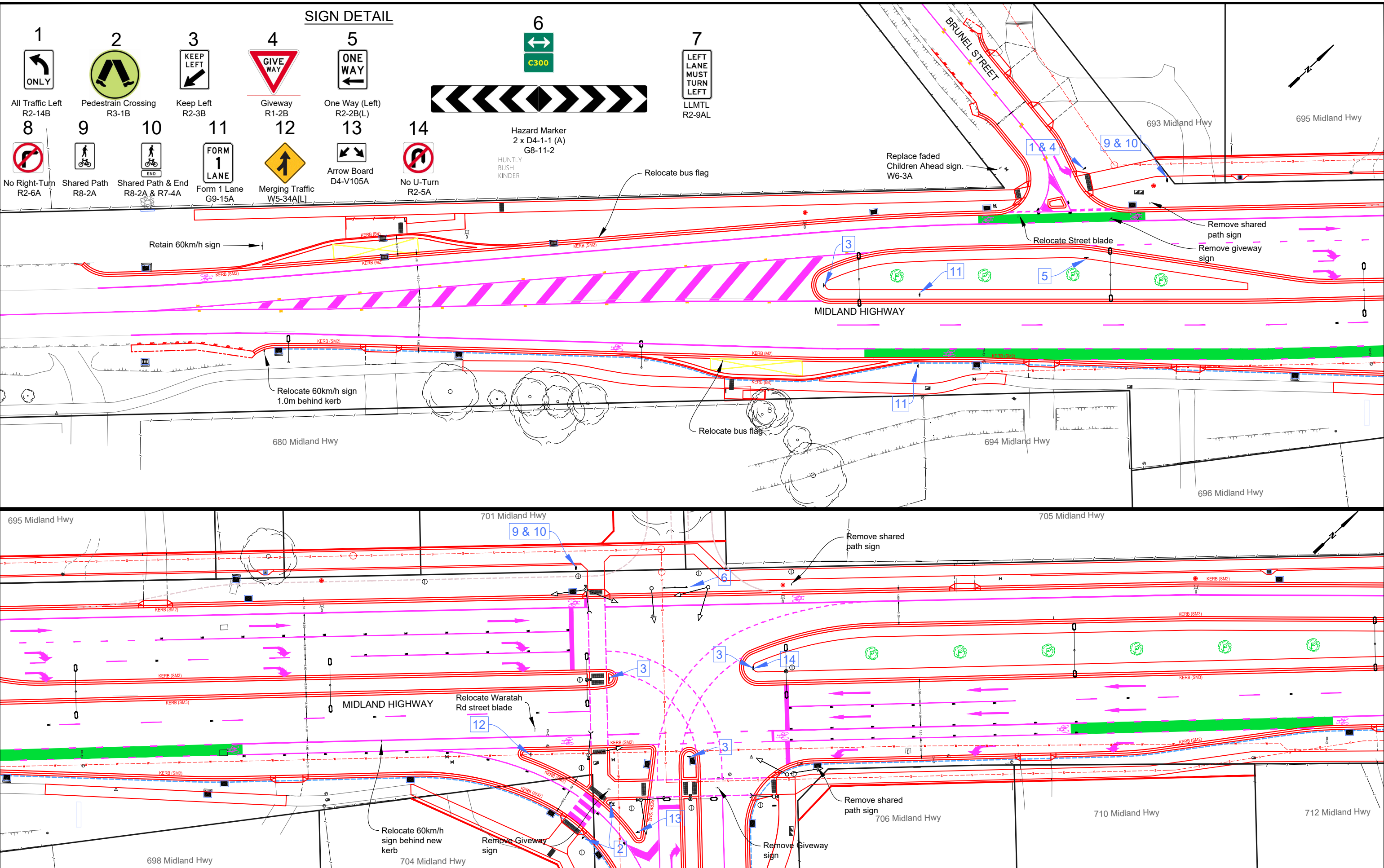
CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
RACE LONG SECTION & PIT SCHEDULE

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: As Shown	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 34 OF 39	Reference: GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



LEGEND

- Design Linemarking - White
- Design Linemarking - Yellow
- Design Bicycle Symbol
- Design Sign
- Existing Sign
- Design RRPM - White
- Design RRPM - Red
- Design RRPM - Yellow

AMENDMENTS

Revision	Description	Approved by	Date

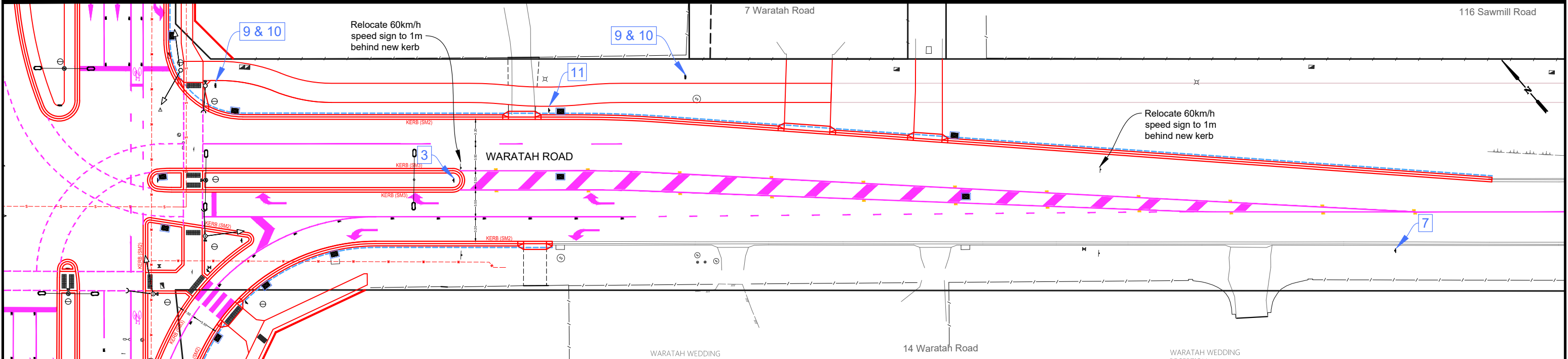
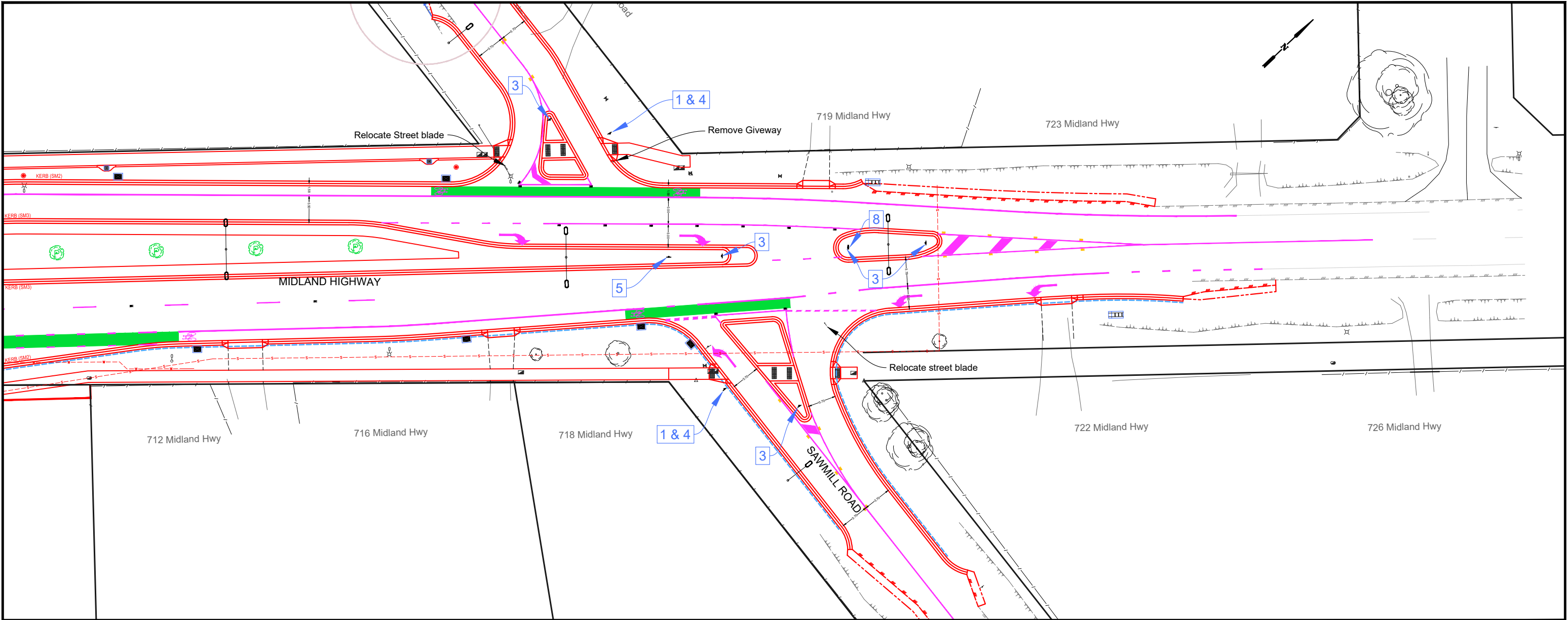
CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS
LINEMARKING & SIGNAGE PLAN

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: 1 : 500	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet: 35 OF 39	Reference: GB4900	

**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH



LEGEND		AMENDMENTS		CITY OF GREATER BENDIGO		Survey		ADRIAN CUMMINS & ASSOC.		13/09/2021	
Design Linemarking - White	Design Sign	Revision	Description	Approved by	Date	Design	A.SMITH			04/10/2021	
Design Linemarking - Yellow	Existing Sign	-	-	-	-	Checked	L. OLIVER			XXXXX	
Design Bicycle Symbol	Design RRPM - White					Approved by	N. SARTORI			XXXXX	
	Design RRPM - Red					Scale: 1 : 500	Revision : A				
	Design RRPM - Yellow					Original sheet size: A3	File : GB4900.dwg				
						Sheet:	Reference:				
						36 OF 39	GB4900				

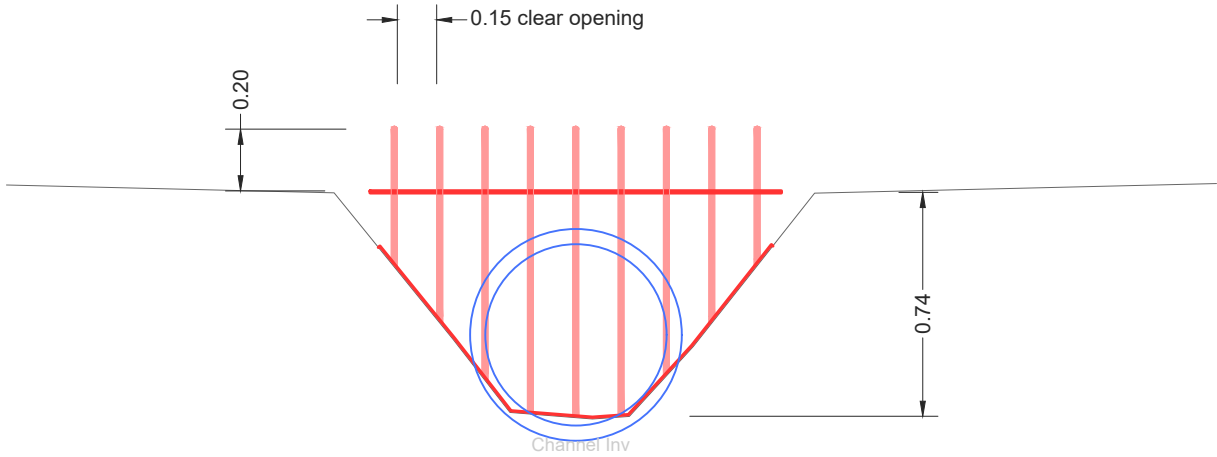
**PRELIMINARY DESIGN
DRAFT 11**

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH

TRASH GRATE DETAILS

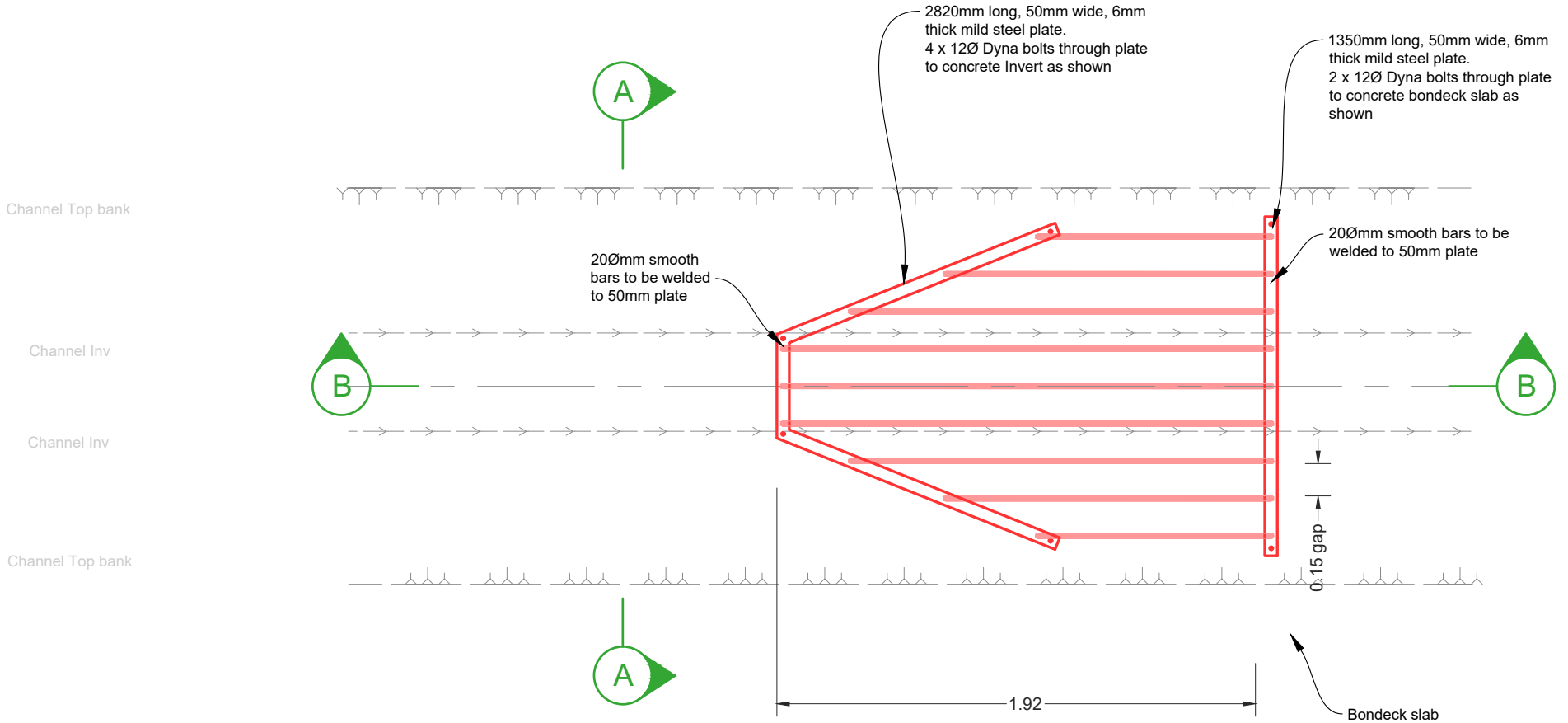
CONSTRUCTION NOTES

1. All steelwork to be galvanized prior to installation



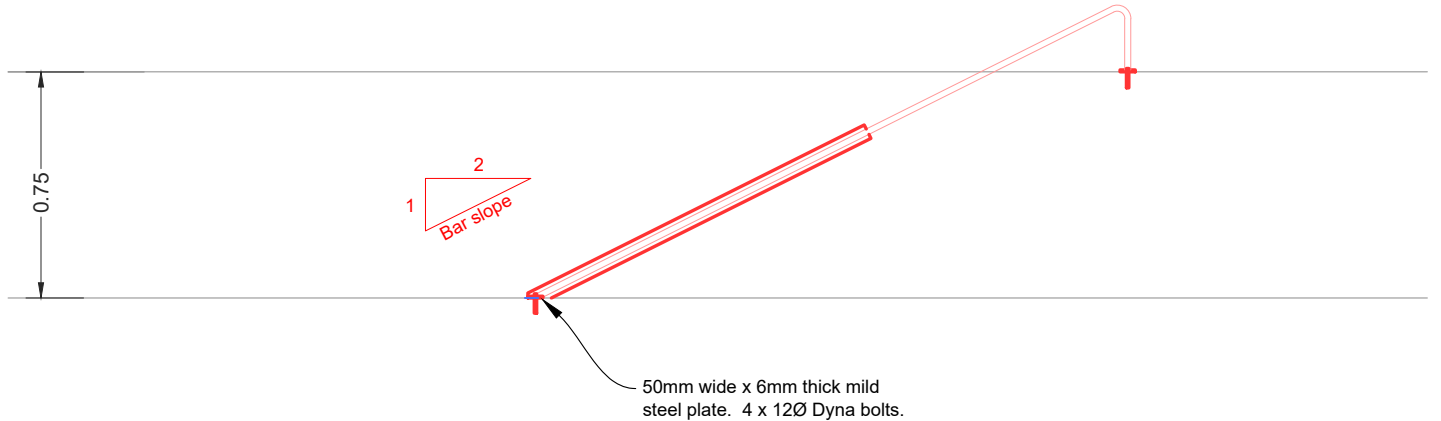
SECTION A

Scale 1:25



PLAN DETAIL

Scale 1:25



SECTION B
Scale 1:25

AMENDMENTS				CITY OF GREATER BENDIGO		Survey		ADRIAN CUMMINS & ASSOC.		13/09/2021		PRELIMINARY DESIGN DRAFT 11		
Revision	Description	Approved by	Date			Design	A.SMITH		04/10/2021					
-	-	-	-	Checked	L. OLIVER		XXXXXX							
				Approved by	N. SARTORI		XXXXXX							
				Scale:	-	Revision :	A							
				Original sheet size:	A3		File :	GB4900.dwg						
				Sheet:	37 OF 39		Reference:	GB4900						
					MIDLAND HWY / WARATAH RD HUNTLY TRAFFIC SIGNALS TRASH RACK DETAILS							Plot Date:	30/11/2023	
										Plotted By:		ANDREW SMITH		

SETOUT ON CONSTRUCTION PLANS

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

SETOUT

Survey	ADRIAN CUMMINS & ASSOC.	13/09/2021
Design	A.SMITH	04/10/2021
Checked	L. OLIVER	XXXXX
Approved by	N. SARTORI	XXXXX
Scale: -	Revision : A	
Original sheet size: A3	File : GB4900.dwg	
Sheet:	Reference:	
38 OF 39	GB4900	

PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH

SETOUT ON CONSTRUCTION PLANS

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

MIDLAND HWY / WARATAH RD
HUNTLY
TRAFFIC SIGNALS

SETOUT

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PRELIMINARY DESIGN
DRAFT 11

Plot Date: 30/11/2023
Plotted By: ANDREW SMITH