

QUEEN STREET / SHORT STREET, BENDIGO

APPROVED

By Andrew Smith at 1:58 pm, Nov 15, 2023

APPROVED

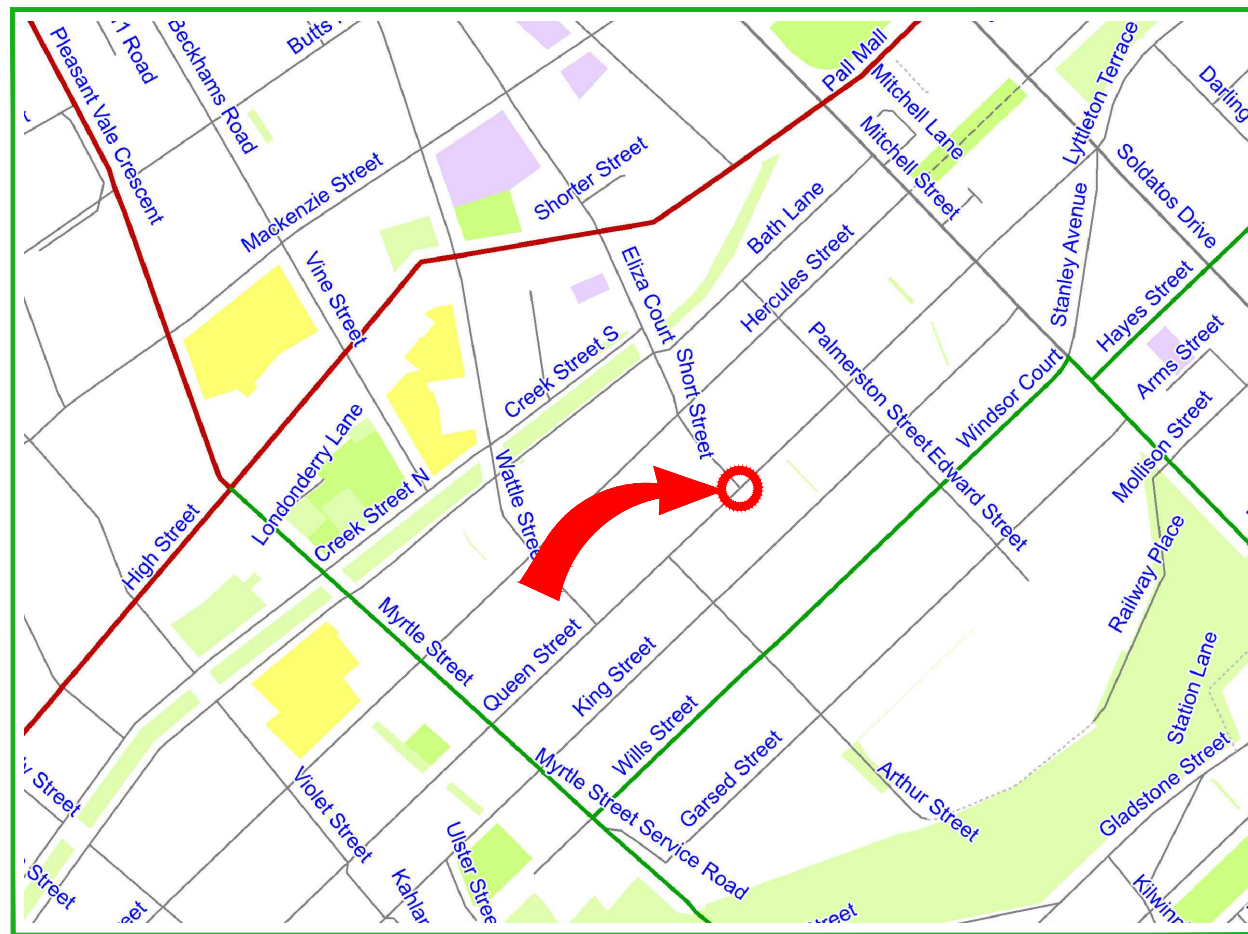
By Nathan Sartori at 8:26 am, Nov 16, 2023

GB5227

Raised pedestrian crossing

November 2023

DOCUMENT CONTROL				
SHEET No.	SHEETD ESC.	15/11/2023	xxxxxx	xxxxxx
		DRAFT	TENDER	CONSTRUCTION
		REVISION	REVISION	REVISION
1	COVER SHEET	A		
2	GENERAL NOTES	A		
3	DEMOLITION PLAN	A		
4	DETAIL LAYOUT	A		
5	LINEMARKING AND SIGNAGE	A		
6	KERB RETURN LONG SECTIONS	A		
7	KERB RETURN CROSS SECTIONS	A		
8	RAISED CROSSING LS & XS	A		
9	DRAINAGE DETAILS	A		
10	SETOUT DETAILS	A		
11	LIGHTING CONTOURS	A		



LOCALITY MAP



PROJECT EXTENTS

APPROVAL TO CONSTRUCT STAMP		PROJECT PLANNING REQUIREMENTS				 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS			
DO NOT CONSTRUCT WITHOUT STAMP	Item	Required	Comments	Contractor	Surveyor:		H. Whylock	29/06/23	Location: Queen Street / Short Street	Suburb: Bendigo	Works: IP43 - Raised pedestrian crossing	GB No: GB5227	COVER SHEET	Sheet number: 1 of 11	
	Vegetation	No	-		Designer:		I. Frost	31/10/23						Plan Scale: - A3	
	DTP (VicRoads)	Yes	MOA required, not yet received		Draft Checked:		A. Smith	xx/xx/23						Plotted: 15/11/2023 By:Ian Frost	
	CMA	No	-		Tender Approved:		N. Sartori	xx/xx/23							
	Planning Permit	No	-		SHEET REVISIONS AFTER TENDER										
	Land Acquisition	No	-		Revision		Description	Approved by		Date					
	CHMP	No	-		-		-	-		-					
Other	Yes	Lighting by others		-	-	-		-							

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

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)
405 Regulation Gap Graded Asphalt
417 Open Graded Asphalt
430 High Friction Surface Treatment

INCIDENTAL CONSTRUCTION

701 Underground Stormwater Drains
702 Subsurface Drainage
703 General Concrete Paving
705 Drainage Pits and Covers
706 Installation or Replacement of Utility Infrastructure within Road Reserves
710 Fixing Raised Pavement Markers
711 Wire Rope Safety Barrier (WRSB)
712 Block Paving
714 Sign Installation
721 Pavement Markings
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	No	-	
DTP (VicRoads)	Yes	MOA required, not yet received	
CMA	No	-	
Planning Permit	No	-	
Land Acquisition	No	-	
CHMP	No	-	
Other	Yes	Lighting by others	

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

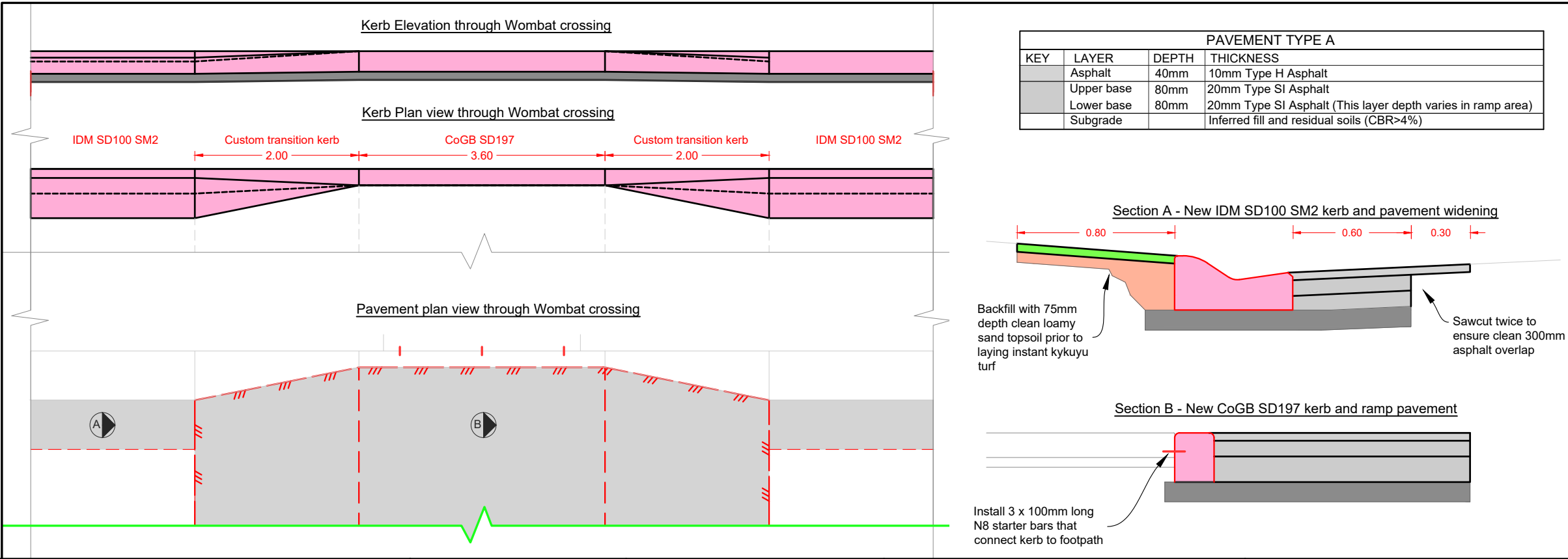
SITE ENVIRONMENTAL MANAGEMENT PLAN

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.



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.

SURVEY NOTES
Survey has been conducted to:
- MGA 2020 and orientated via GB4713 (Coordinates were derived from GB4713)
- Survey level has been tied to AHD via STN 901 (RL 238.853)
- Control from GB4713 has been shifted from MGA94 to MGA2020
- Title information shown is imprinted from Land.vic.gov.au and has not been reestablished



PROJECT DESIGN STATUS		
Surveyor:	H. Whylock	29/06/23
Designer:	I. Frost	31/10/23
Draft Checked:	A. Smith	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23

PRELIMINARY DESIGN
DRAFT 4

PROJECT DETAILS	
Location:	Queen Street / Short Street
Suburb:	Bendigo
Works:	IP43 - Raised pedestrian crossing
GB No:	GB5227

SHEET DETAILS			
GENERAL NOTES		Sheet number:	2 of 11
		Plan Scale:	- A3
		Plotted:	15/11/2023 By:Ian Frost
SHEET REVISIONS AFTER TENDER		Approved By	
Revision	Description	Approved	Date
-	-	-	-
-	-	-	-
-	-	-	-



LEGEND			
	Removal: Pavement		Removal: Pavers
	Removal: Kerb		Removal: Asphalt
	Removal: Concrete		Removal: Grass
	Removal: Linemarking		Removal: Sawcut
	Removal: Pipe		Removal: Tree



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PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Queen Street / Short Street
Suburb:	Bendigo
Works:	IP43 - Raised pedestrian crossing
GB No:	GB5227

SHEET DETAILS			
DEMOLITION PLAN			Sheet number: 3 of 11
			Plan Scale: 1:200
			Plotted: 15/11/2023 By: Ian Frost
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



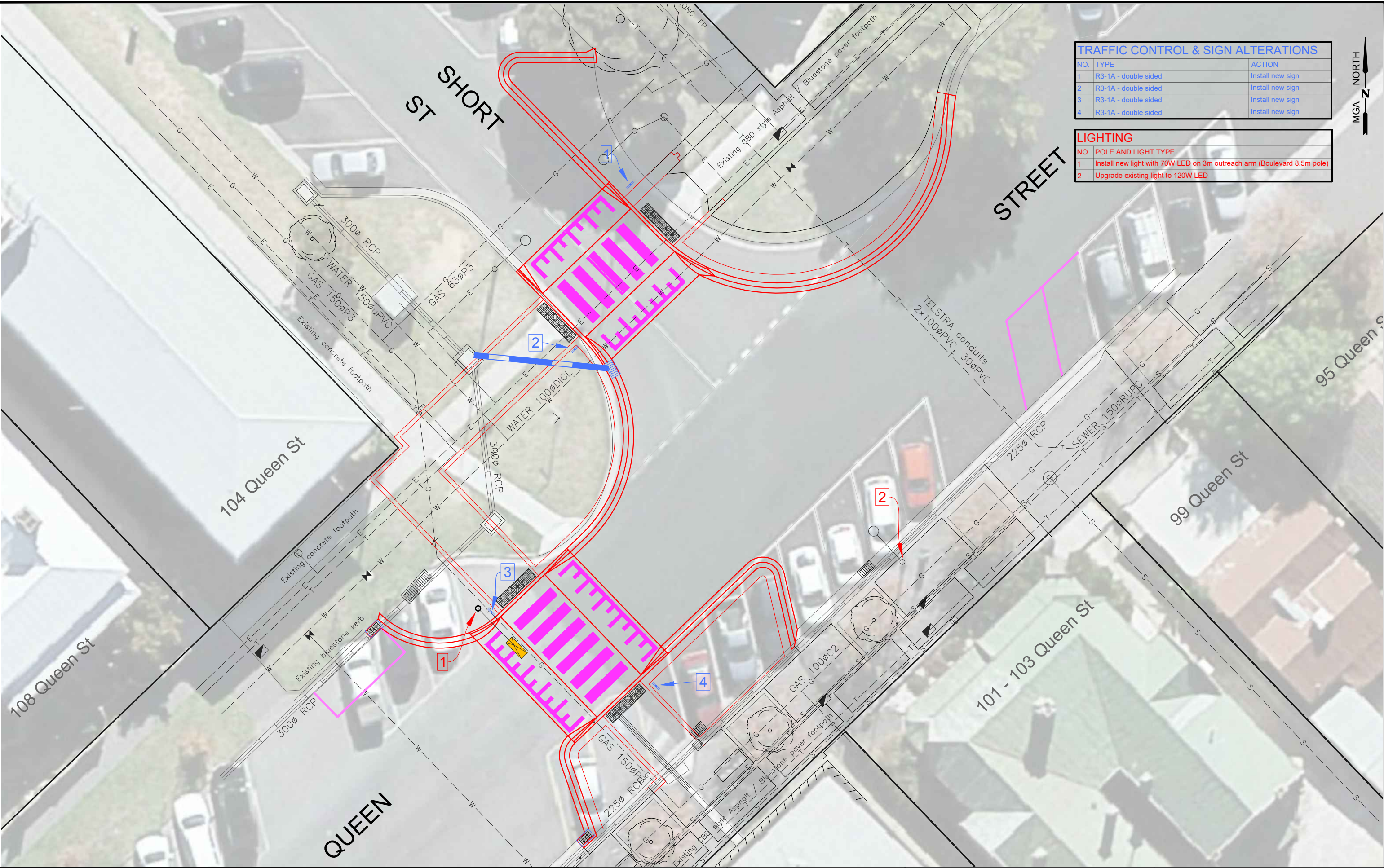
LEGEND			
	DESIGN CONTOURS - Levels to AHD (0.10m interval)		CBD Style Footpath area: Paved areas Paving as per CoGB SD290
	EXISTING CONTOURS - Levels to AHD (0.10m interval)		CBD Style Footpath area: Asphalt areas Asphalt as per CoGB SD290
	Concrete Kerb area: Normal plain Kerb per IDM SD100 & CoGB SD190,191,192		Existing tree to be removed
	Landscape work: Instant turf (Refer: Typical details pg 2)		Landscape work: Plant new Tree Plant as directed by CoGB Parks
	Landscape work: topsoil and seed (Refer: Typical details pg 2)		
	Landscape work: Mulched areas (Refer: Typical details pg 2)		
	Road Pavement: As per pavement details on pg 2		
	Concrete Driveway area: Normal plain Dwy as per IDM SD240		



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Designer:	I. Frost	31/10/23
Draft Checked:	A. Smith	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Queen Street / Short Street
Suburb:	Bendigo
Works:	IP43 - Raised pedestrian crossing
GB No:	GB5227

SHEET DETAILS			
DETAILED LAYOUT			Sheet number: 4 of 11
			Plan Scale: 1:200
			Plotted: 15/11/2023 By: Ian Frost
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-
-	-	-	-



TRAFFIC CONTROL & SIGN ALTERATIONS		
NO.	TYPE	ACTION
1	R3-1A - double sided	Install new sign
2	R3-1A - double sided	Install new sign
3	R3-1A - double sided	Install new sign
4	R3-1A - double sided	Install new sign

LIGHTING	
NO.	POLE AND LIGHT TYPE
1	Install new light with 70W LED on 3m outreach arm (Boulevard 8.5m pole)
2	Upgrade existing light to 120W LED

LEGEND

- Design Linemarking - White

Design Linemarking - Yellow

Design Bicycle Symbol
- Design Sign

Existing Sign

Design RRPM - White

Design RRPM - Red

Design RRPM - Yellow



CITY OF GREATER
BENDIGO

PROJECT DESIGN STATUS

Surveyor:	H. Whylock	29/06/23
Designer:	I. Frost	31/10/23
Draft Checked:	A. Smith	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23

**PRELIMINARY DESIGN
DRAFT 4**

PROJECT DETAILS

Location: Queen Street / Short Street
Suburb: Bendigo
Works: IP43 - Raised pedestrian crossing
GB No: GB5227

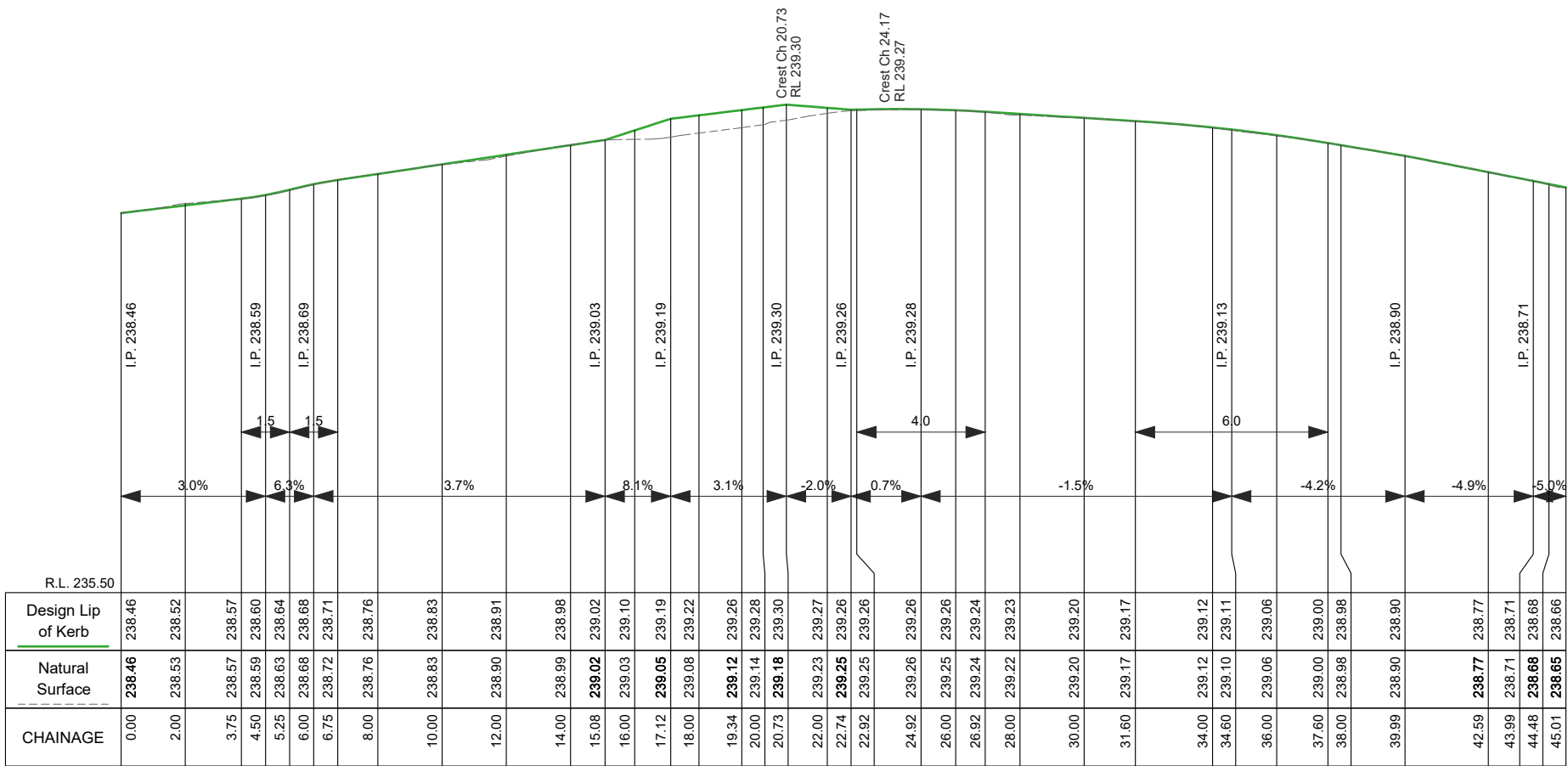
SHEET DETAILS

**SIGNAGE AND
LINEMARKING**

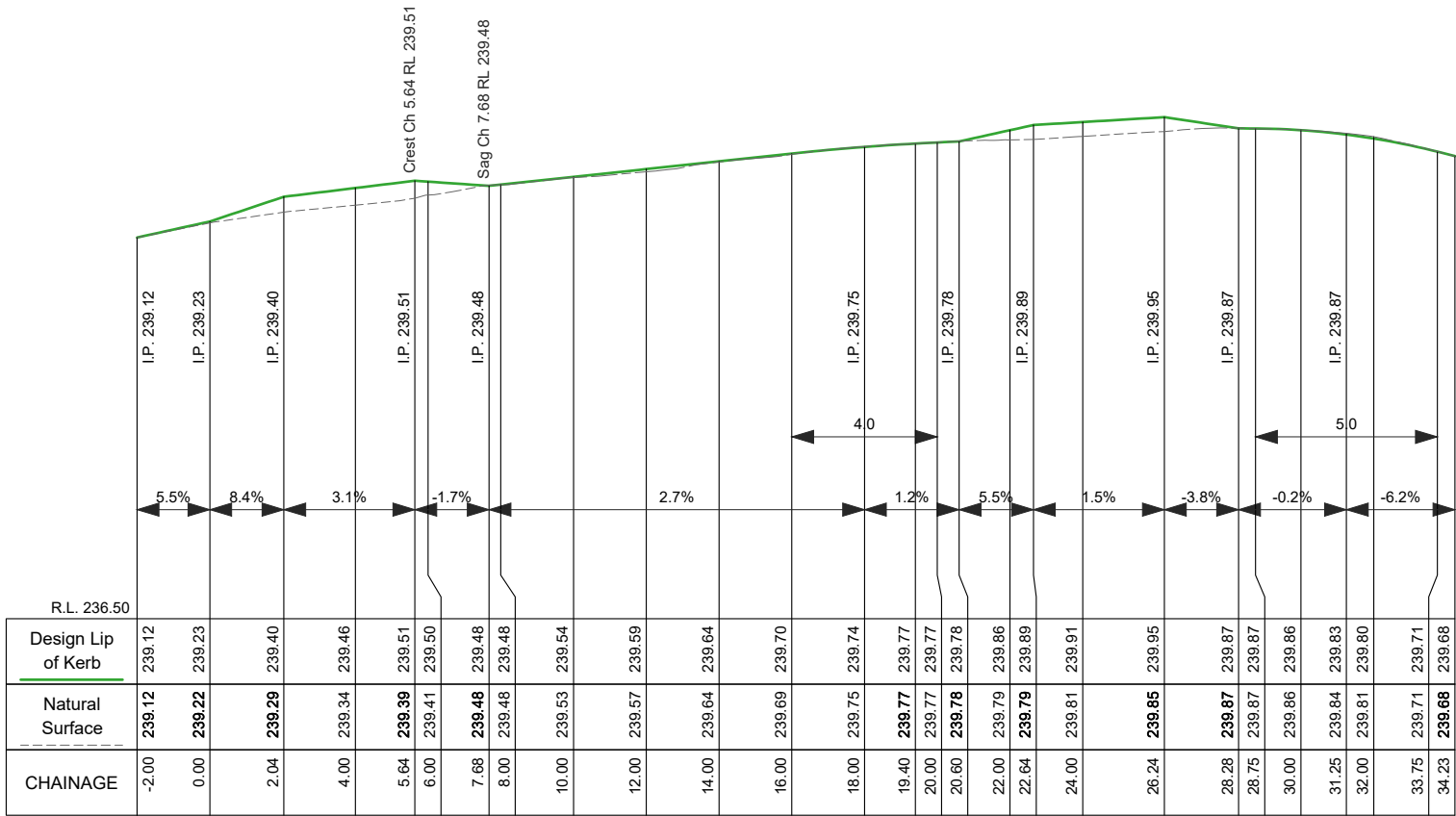
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Plan Scale: 1:200
Plotted: 15/11/2023 By: Ian Frost

SHEET REVISIONS AFTER TENDER

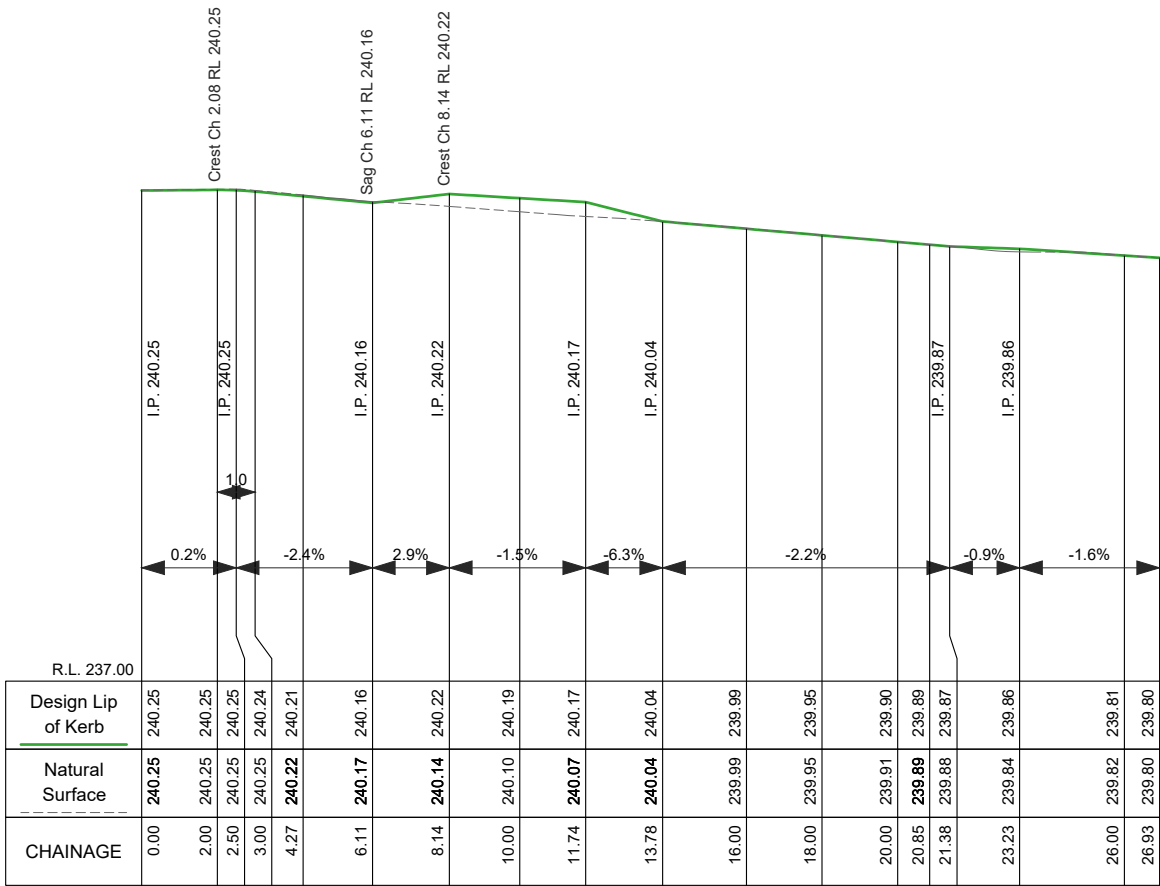
Revision	Description	Approved by	Date
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-	-	-	-
-	-	-	-



North Lip of Kerb LONGITUDINAL SECTION CH 0.000 To 45.009



West Lip of Kerb LONGITUDINAL SECTION CH -2.000 To 34.233



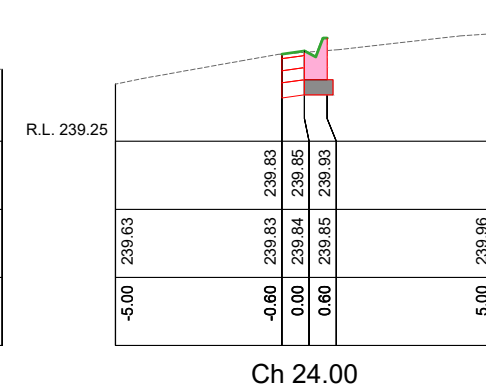
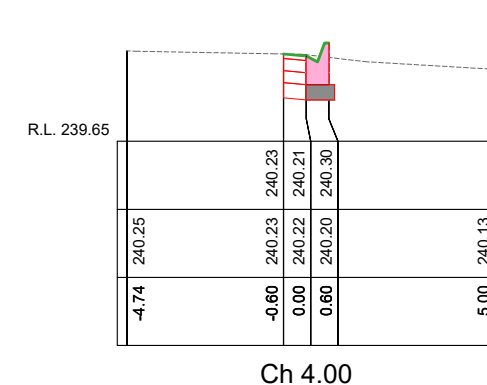
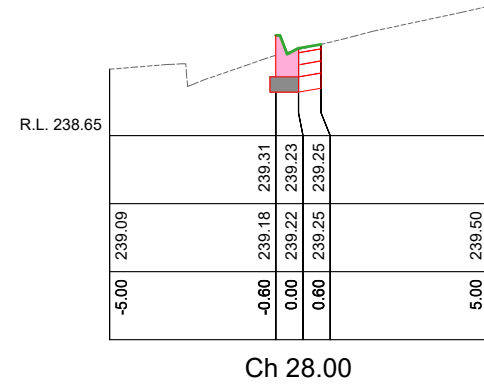
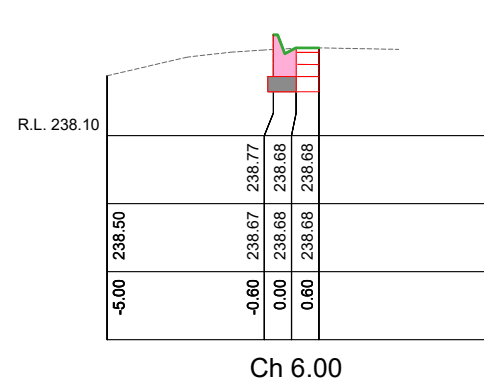
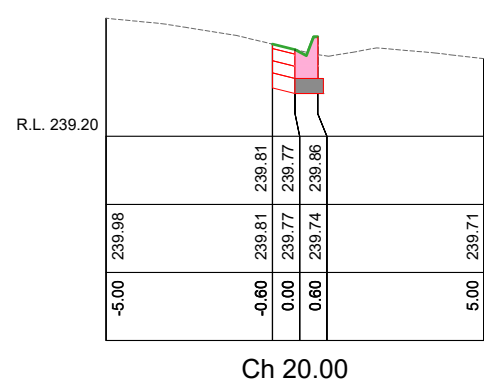
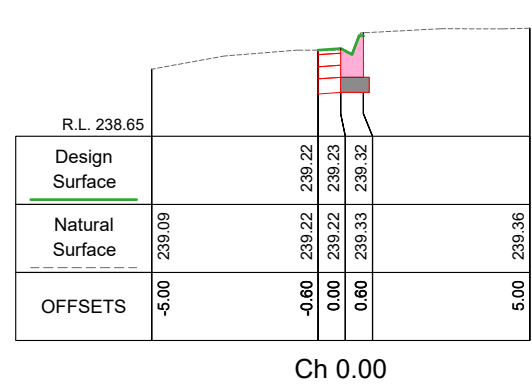
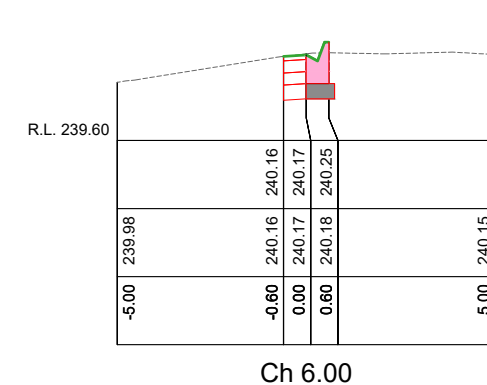
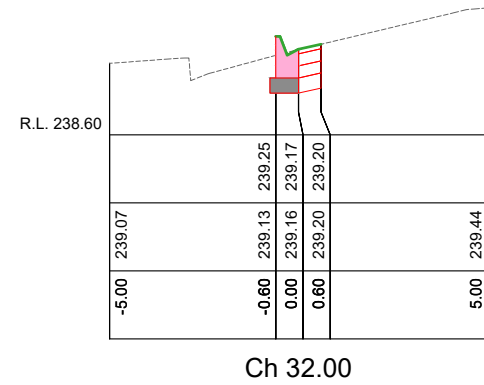
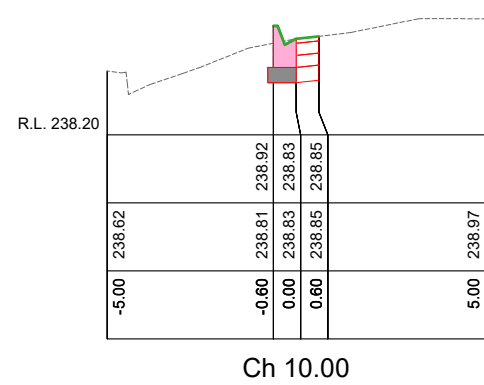
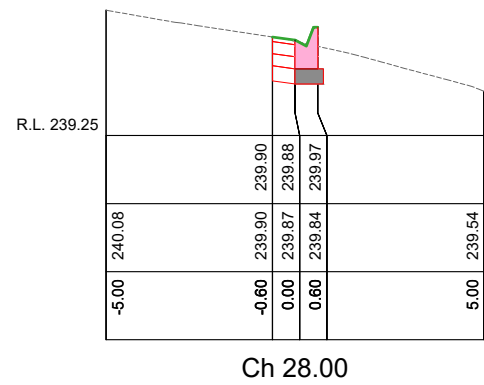
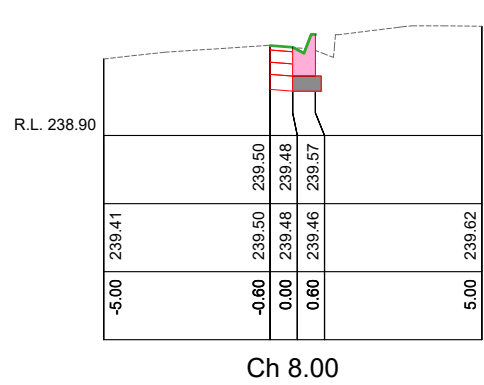
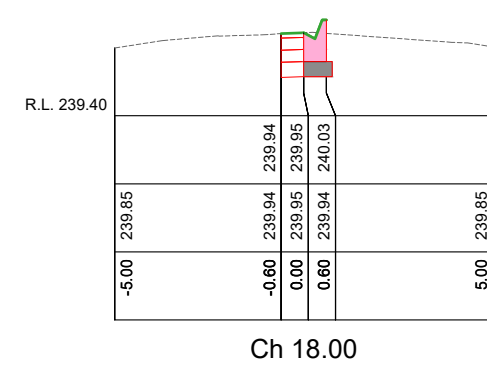
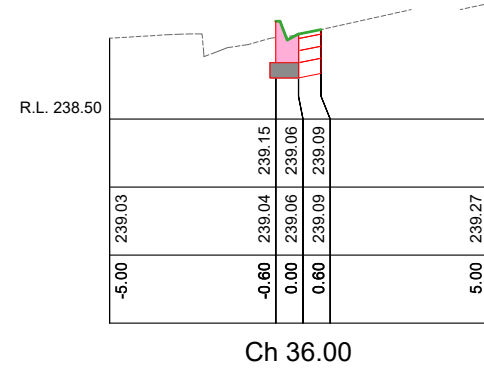
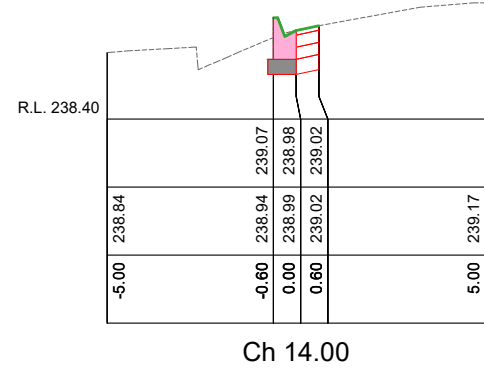
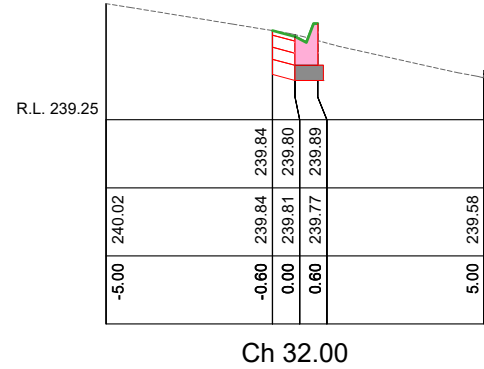
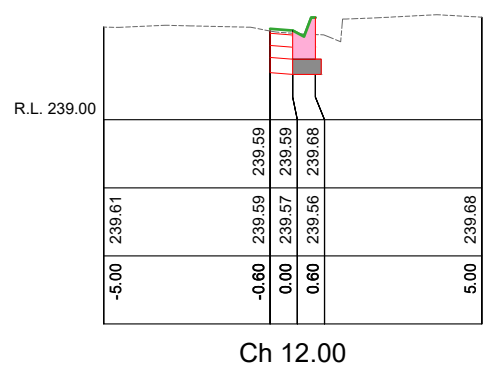
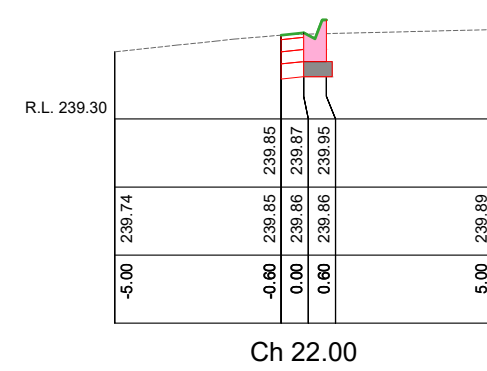
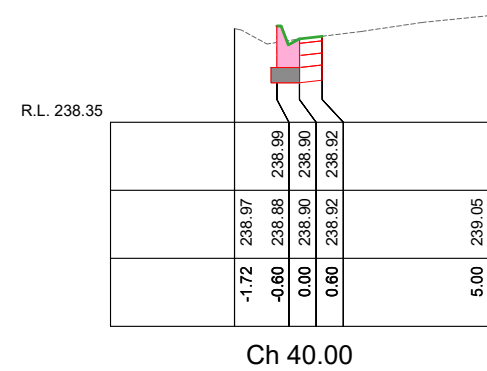
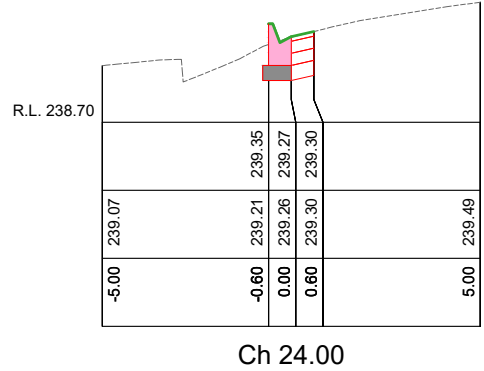
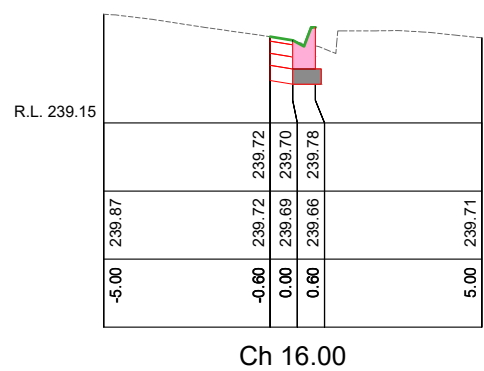
South Lip of Kerb LONGITUDINAL SECTION CH 0.000 To 26.932



PROJECT DESIGN STATUS		
Surveyor:	H. Whylock	29/06/23
Designer:	I. Frost	31/10/23
Draft Checked:	A. Smith	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

PROJECT DETAILS	
Location:	Queen Street / Short Street
Suburb:	Bendigo
Works:	IP43 - Raised pedestrian crossing
GB No:	GB5227

SHEET DETAILS	
Kerb Returns Longitudinal Sections	Sheet number: 6 of 11
	Plan Scale: H;1:200,V;1:50 A3
	Plotted: 15/11/2023 By: Jan Frost
SHEET REVISIONS AFTER TENDER	
Revision	Description
-	-
-	-
-	-



West Lip of kerb CROSS SECTIONS

North Lip of Kerb CROSS SECTIONS

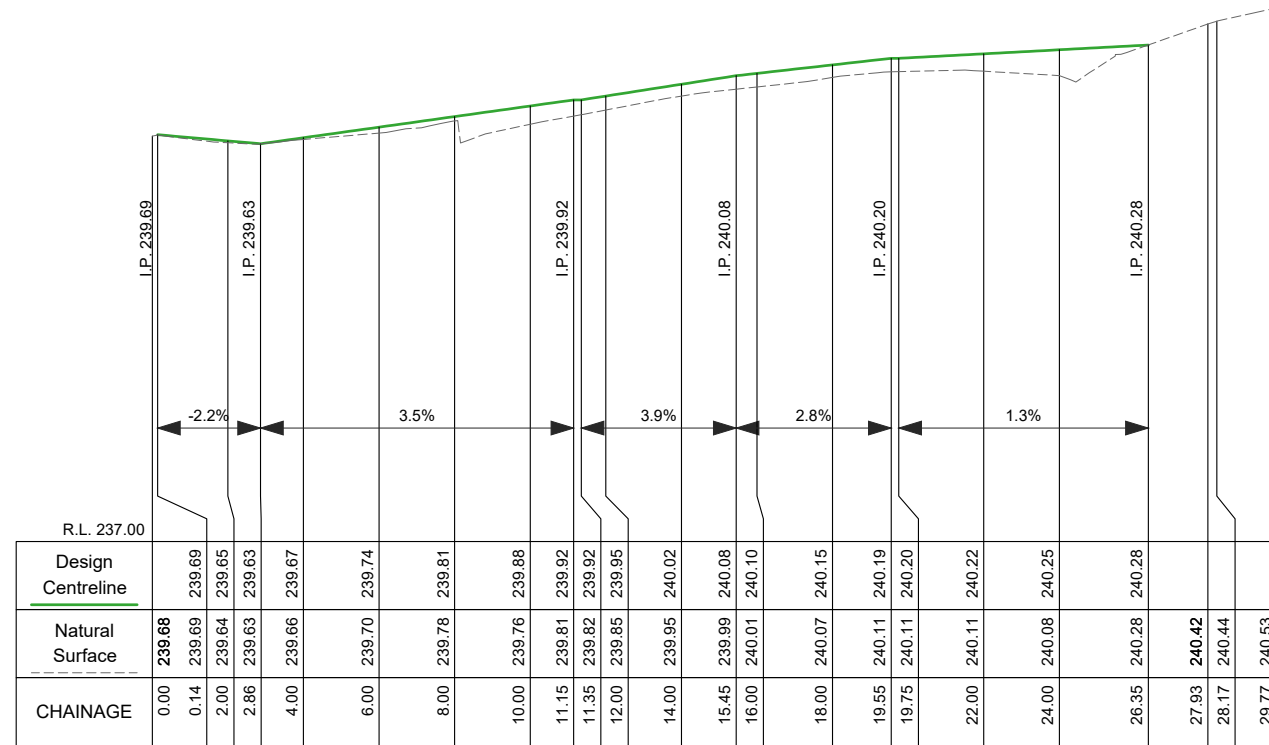
South Lip of Kerb CROSS SECTIONS



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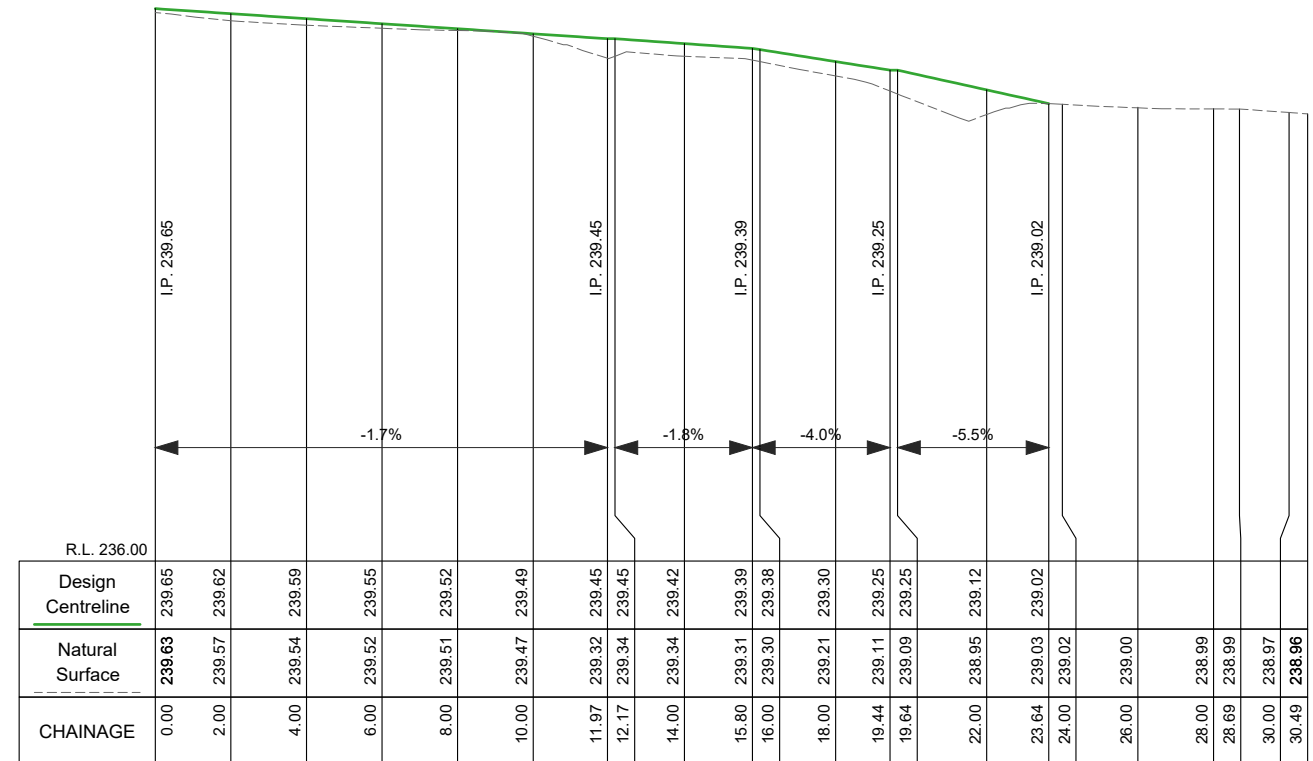
PROJECT DETAILS	
Location:	Queen Street / Short Street
Suburb:	Bendigo
Works:	IP43 - Raised pedestrian crossing
GB No:	GB5227

SHEET DETAILS		
Kerb Return Cross Sections		Sheet number: 7 of 11
		Plan Scale: H;1:200,V;1:50 A3
Plotted: 15/11/2023 By: Jan Frost		
SHEET REVISIONS AFTER TENDER		
Revision	Description	Approved by Date
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-	-	-
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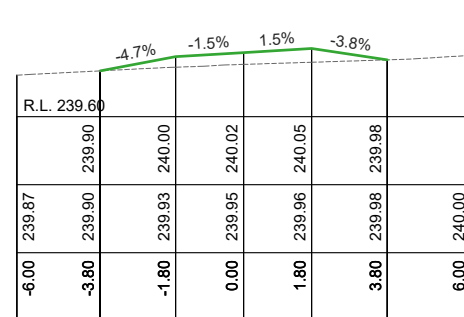


Queen Street Raised Crossing LONGITUDINAL SECTION CH 0.000 To 29.770

SCALES: H 1:200 V 1:50 (A3)



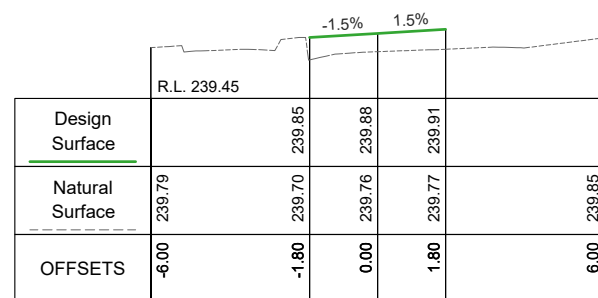
Short Street Raised Crossing LONGITUDINAL SECTION CH 0.000 To 30.490



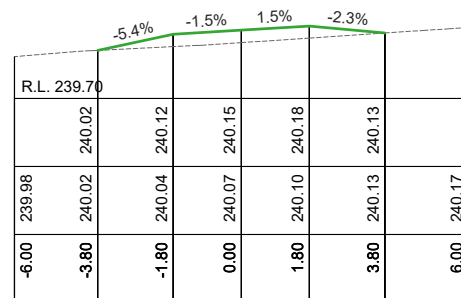
Ch 14.00



Ch 22.00

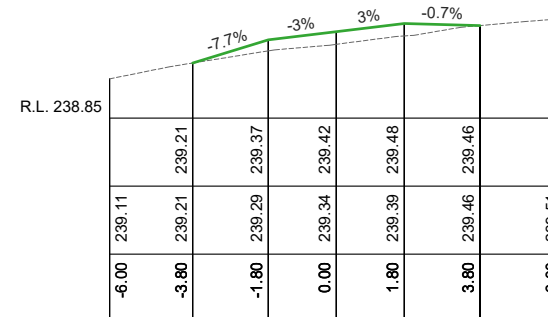


Ch 10.00

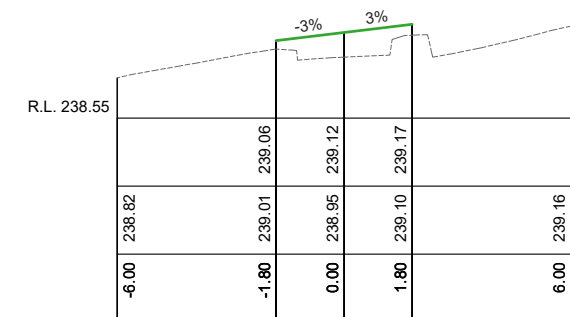


Ch 18.00

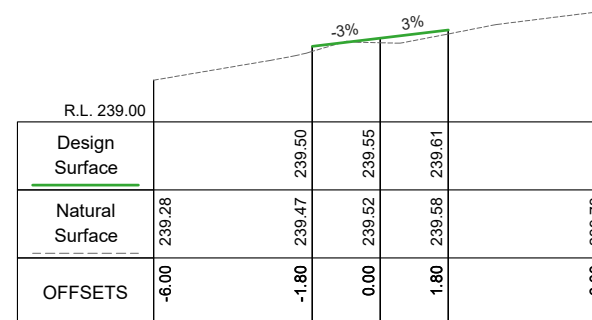
Queen Street Raise Crossing CROSS SECTIONS



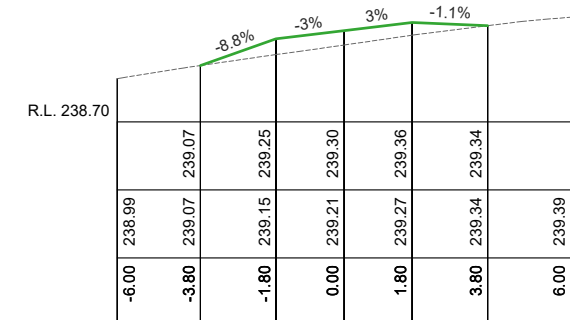
Ch 14.00



Ch 22.00



Ch 6.00



Ch 18.00

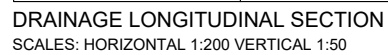
Short Street Raised Crossing CROSS SECTIONS



PROJECT DESIGN STATUS		
Surveyor:	H. Whylock	29/06/23
Designer:	I. Frost	31/10/23
Draft Checked:	A. Smith	xx/xx/23
Tender Approved:	N. Sartori	xx/xx/23
PRELIMINARY DESIGN DRAFT 4		

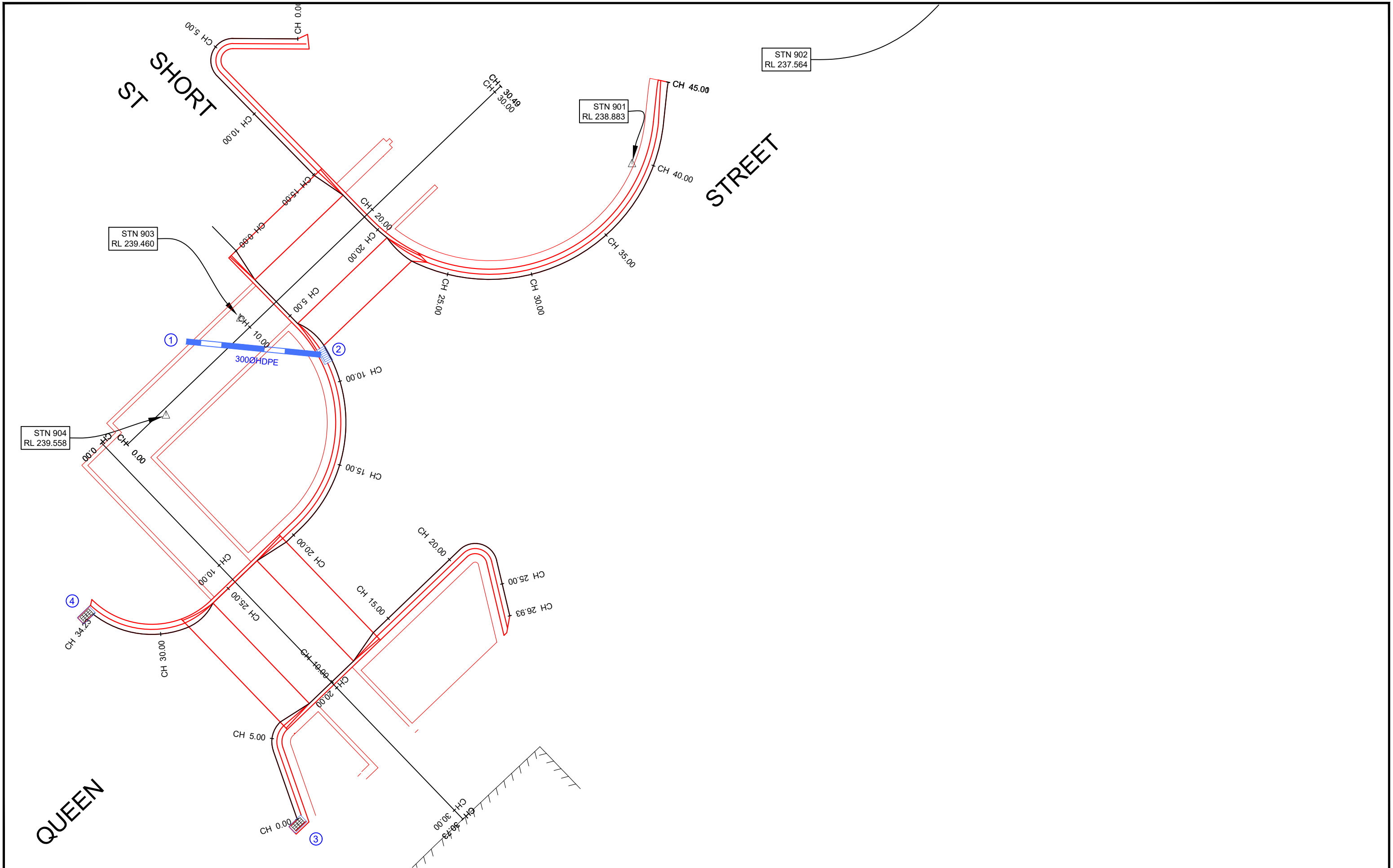
PROJECT DETAILS	
Location:	Queen Street / Short Street
Suburb:	Bendigo
Works:	IP43 - Raised pedestrian crossing
GB No:	GB5227

SHEET DETAILS			
Raised crossings Long & Cross Sections	Sheet number: 8 of 11		
	Plan Scale: H;1:200,V;1:50 A3		
	Plotted: 15/11/2023 By:Jan Frost		
SHEET REVISIONS AFTER TENDER			
Revision	Description	Approved by	Date
-	-	-	-
-	-	-	-

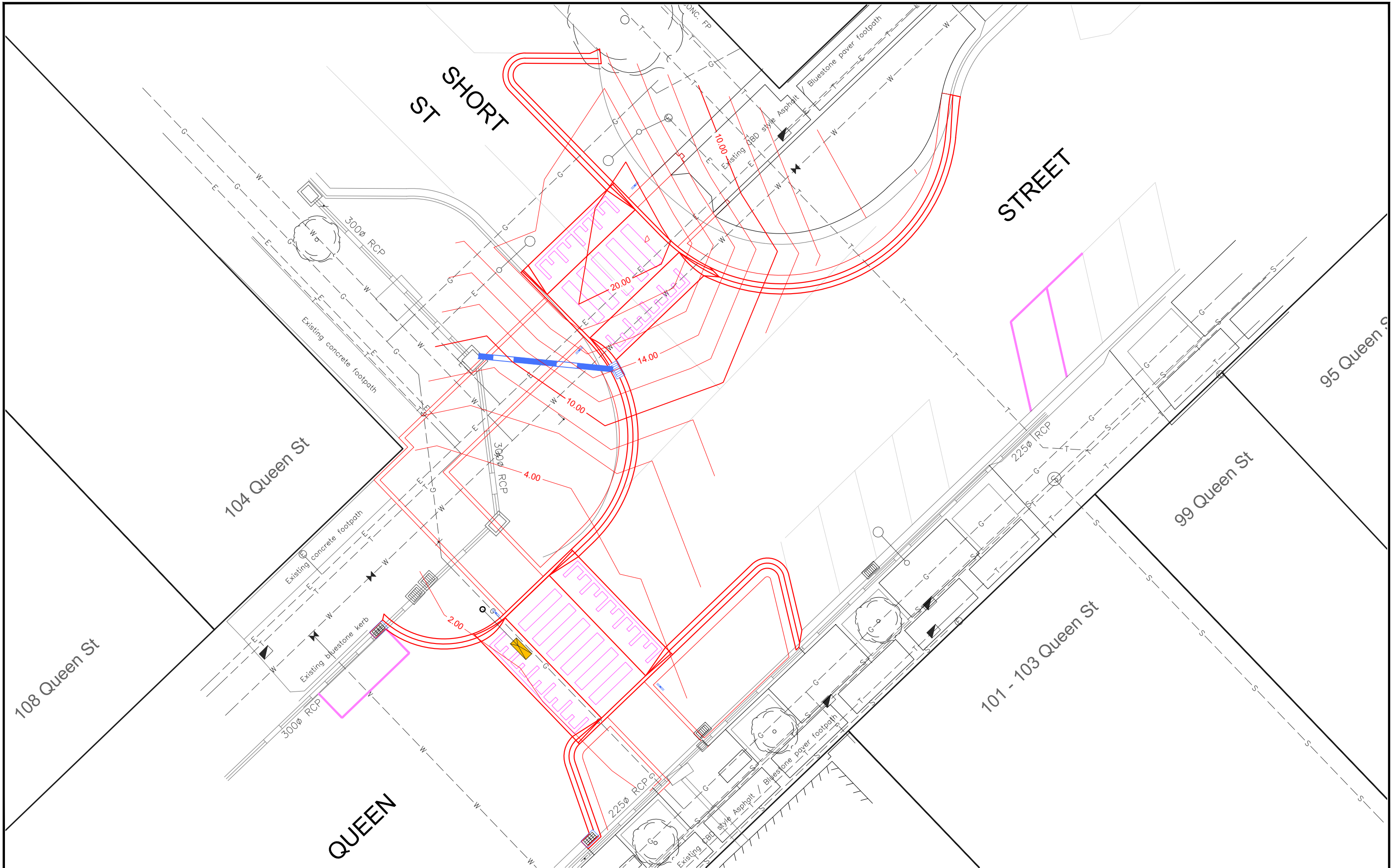


Pit Schedule - D1											
Pit No.	Pit Type	Standard Drawing	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
			(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
1	Junction Pit		900	900	(300)	(237.70)	300	238.700	0.743	239.443	Break 300 Ø pipe into existing Junction Pit
2	Grated Pit	CoGB SD590-A-D-K-V	600	900	300	238.750	-	-	0.711	239.461	
3	Grated Pit	CoGB SD590-A-D-K-V	600	900	-	-	-	-	-	(240.23)	Construct Grated pit in tray of existing kerb over existing pipe
4	Grated Pit	CoGB SD590-A-D-K-V	600	900	-	-	-	-	-	(239.67)	Construct Grated pit in tray of existing kerb over existing pipe

LEGEND		 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS			PROJECT DETAILS		SHEET DETAILS													
 EXISTING PIPE TO REMAIN  DESIGN PIPE / PIT or ENDWALL	 CoGB SD390 TRENCH BACKFILL (BEHIND KERB)		Surveyor: H. Whylock 29/06/23	Location: Queen Street / Short Street	DRAINAGE DETAILS Sheet number: 9 of 11 Plan Scale: As shown A3 Plotted: 15/11/2023 By: Ian Frost																
	CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)		Designer: I. Frost 31/10/23	Suburb: Bendigo																	
	CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)		Draft Checked: A. Smith xx/xx/23	Works: IP43 - Raised pedestrian crossing																	
			Tender Approved: N. Sartori xx/xx/23	GB No: GB5227	SHEET REVISIONS AFTER TENDER																
		PRELIMINARY DESIGN DRAFT 4			<table><tr><th>Revision</th><th>Description</th><th>Approved by</th><th>Date</th></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>	Revision	Description	Approved by	Date	-	-	-	-	-	-	-	-	-	-	-	-
Revision	Description	Approved by	Date																		
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 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS		PROJECT DETAILS		SHEET DETAILS			
	Surveyor:	H. Whylock	29/06/23	Location: Queen Street / Short Street	SETOUT DETAILS	Sheet number: 10 of 11		A3
	Designer:	I. Frost	31/10/23			Plan Scale: 1:200		
	Draft Checked:	A. Smith	xx/xx/23			Plotted: 15/11/2023 By: Ian Frost		
	Tender Approved:	N. Sartori	xx/xx/23					
PRELIMINARY DESIGN DRAFT 4			Suburb: Bendigo	SHEET REVISIONS AFTER TENDER				
			Works: IP43 - Raised pedestrian crossing	Revision Description Approved by Date				
			GB No: GB5227	- - - - - - - - - - - -				



 CITY OF GREATER BENDIGO	PROJECT DESIGN STATUS		PROJECT DETAILS		SHEET DETAILS	
	Surveyor:	H. Whylock	29/06/23	Location:	Queen Street / Short Street	
	Designer:	I. Frost	31/10/23	Suburb:	Bendigo	
	Draft Checked:	A. Smith	xx/xx/23	Works:	IP43 - Raised pedestrian crossing	
PRELIMINARY DESIGN DRAFT 4	Tender Approved:	N. Sartori	xx/xx/23	GB No:	GB5227	
	LIGHTNG CONTOURS		SHEET REVISIONS AFTER TENDER		Sheet number: 11 of 11	
				Plan Scale: 1:200		A3
				Plotted: 15/11/2023 By: Jan Frost		
		Revision	Description	Approved by		Date
		-	-			-
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