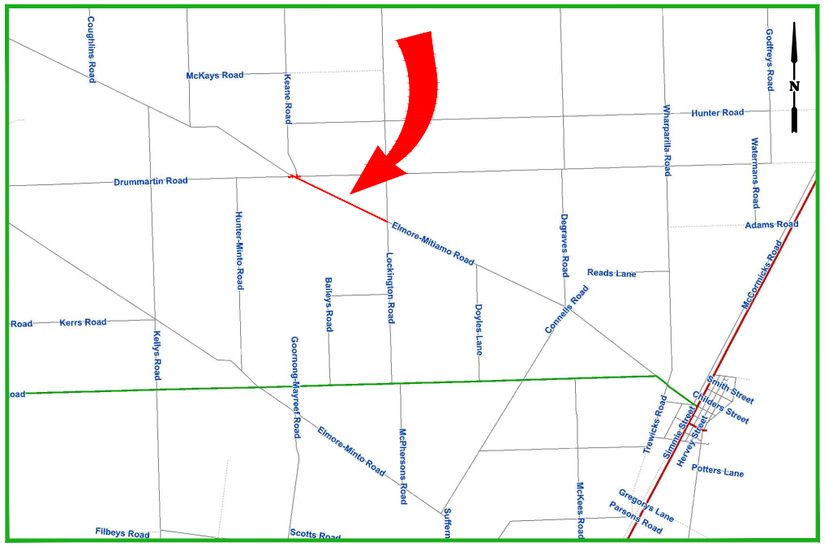
ELMORE-MITIAMO ROAD, HUNTER

GB4861

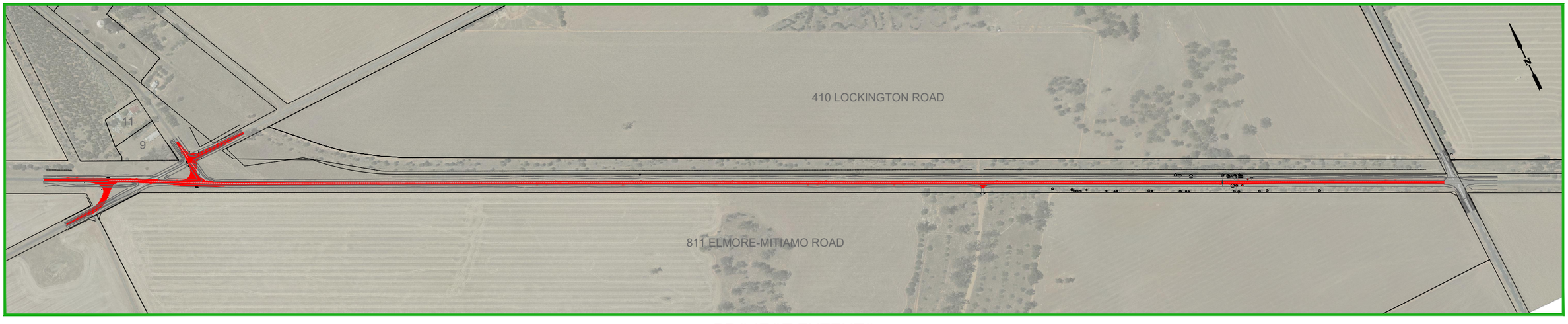
ROAD RECONSTRUCTION

JANUARY 2023

CITY OF GREATER BENDIGO



LOCALITY MAP



PROJECT EXTENTS

DOCUMENT CONTROL				
SHEET No.	SHEET DESC.	24/01/23	xx/xx/xx	xx/xx/xx
		DRAFT	TENDER	CONSTRUCTION
		REVISION	REVISION	REVISION
1	COVER SHEET	A		
2	GENERAL NOTES	A		
3	OVERALL LAYOUT & CONTROL	A		
4-11	DETAIL LAYOUT	A		
12-16	ROAD LONGITUDINAL SECTIONS	A		
17-29	ROAD CROSS SECTIONS	A		

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

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

COVER SHEET

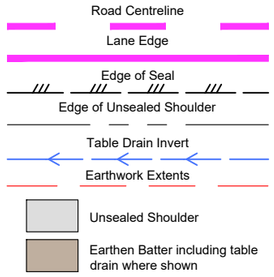
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 1 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

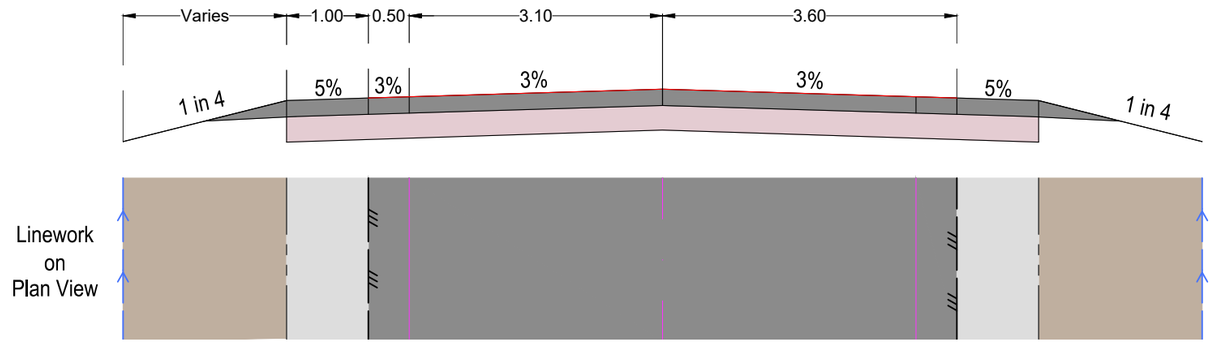
Plot Date: 24/01/2023

Plotted By: BAYLEY JANSSEN

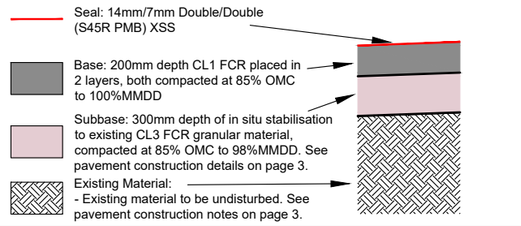
LEGEND



ELMORE-MITIAMO ROAD TYPICAL SECTION/PLAN



TYPICAL PAVEMENT SECTION



TREE REMOVAL NOTES

1. All trees, shrubs, stumps and roots within the batter limits of the project to be removed from site.
2. Contractor must abide by any conditions set in the planning permit for removal of vegetation.
3. Contractor must seek permission from the Superintendent's Representative to remove any trees not within batter extents that will potentially be disturbed with table drain earthworks.
4. Any approved trees or vegetation removed as part of the works are not to be burnt onsite.

FILL NOTES

1. All earthworks and compaction are to be in accordance with VicRoad's Specification Section 204.
2. All fill materials are to be approved by the Superintendent's Representative prior to being imported onto the site, and unless noted otherwise, shall be a clean clay based material free of vegetation matter or contaminants.
3. All filling is to comply with AS3798 Appendix B, level 1 (or 2) as specified
4. The Contractor is responsible for ensuring that all imported fill material, including topsoil, satisfies the description for clean fill material in EPA bulletin publication No. 448 (Sep 95) and subsequent revisions. The Contractor shall provide verification including test certificates to the Superintendent's Representative.

PAVEMENT NOTES

1. Construction of road pavements is to be in accordance with the requirements of VicRoad's Standard Specifications for Roadworks (Section 304). Testing must be carried out by a N.A.T.A. approved laboratory, or by calibrated nuclear densometer test to the relevant Australian Standard.
2. Compaction tests are to be undertaken in the following locations:
   - At ⅔ depth of the pavement
   - At alternating sides of the road
   - 1.0m in from the seal edge or lip of kerb
   - At even spacings.
3. The number of compaction tests shall comply with the table below:

Location	Number of Compaction tests
Court bowls	3
Intersections	2
Straights	1 per 500m2 (1/50m for 10.2m wide pvmt.)

4. Copies of the geotechnical results are to be submitted to the Superintendent's Representative.

ROAD CONSTRUCTION NOTES

1. All Works to be carried out in accordance with CoGB Standard Drawings, Specifications, approved plans and to the satisfaction of the Superintendent's Representative.
2. These notes also refer to the latest version of the Infrastructure Design Manual (IDM) and latest version of the IDM Standard Drawings.
3. The Project Manager is to be notified seven days prior to the commencement of Works with a Pre-commencement meeting to be held between CoGB, the Consultant and the Contractor. A site management plan is to be submitted prior to the commencement of Works and prior to the onsite Pre-commencement meeting.
4. Prior to commencement of the Works, the Contractor shall provide the following:
   - Source of quarry material
   - N.A.T.A. approved test results for the F.C.R that is to be used
   - If the source of the quarry material is changed during the course of the Works, then new test results shall be provided.
5. Prior to commencement of Works on site, the Contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004, have been and will be complied with.
6. On the commencement of construction, the Contractor must comply with the recommendation of the Environment Protection Authority publication "Construction Techniques for Sediment Pollution Control". Appropriate siltation control is to be maintained throughout the construction and maintenance period of the Works.
7. The disposal site for spoil storage, and truck removal route, is to be submitted in writing to, and approved by the Superintendent's Representative prior to the commencement of Works.
8. Where Works are in the vicinity of existing services, these services are to be located and exposed prior to commencement of the work. Relevant authorities are to be notified 7 days prior to the Works.
9. All dimensions are in metres unless noted otherwise.
10. All levels are to Australian Height Datum (AHD) unless noted otherwise.
11. All co-ordinates are to Map Grid of Australia (MGA) unless noted otherwise.
12. The Contractor must arrange the inspection of the Works with the Superintendent's Representative as per the hold points in the Specifications, or as directed by the Superintendent's Representative.
13. All redundant assets are to be removed and disposed off site unless noted otherwise.
14. All service conduit trenches under road pavements, under footpaths and under swales are to be backfilled as per IDM SD310 unless noted otherwise. Compaction standards noted in SD310 shall be achieved.
15. Blasting is not generally accepted.
16. All existing assets affected by the Works (i.e. signs, vehicle crossings, footpaths, kerb and line marking) shall be reinstated by the Contractor before the completion of Works, to the satisfaction of the Superintendent's Representative.
17. At the completion of all Works, all rubbish, debris and surplus spoil shall be removed and the site shall be cleared to the satisfaction of the Superintendent's Representative.
18. The Contractor is to obtain a Building Permit for any structures, fences and for any retaining walls over 1.0m in height.
19. Any infrastructure damage incurred during the Defects Liability Period noted on the contract is the responsibility of the Contractor and is to be reinstated to the satisfaction of the Superintendent's Representative.
20. All disturbed areas (eg. nature strips, batters, allotments and reserves) are to be reinstated to a clean, tidy condition, top dressed with 75mm min. depth approved top soil, and seeded with a CoGB approved blend or unless otherwise noted. Soil & seeded treated areas must be satisfactorily established prior to the end of the Maintenance Period otherwise further treatment is required by the Contractor.
21. Any exposed aggregate concrete works are to be achieved by sandblasting only. Washing aggregate off with water is not permitted.
22. The Contractor shall notify the public of any impending road closures by providing sufficient signage 2 weeks prior to construction commencing.

SPRAY SEAL NOTES:

1. All works relating to the construction of a spray seal shall comply with VicRoad's Specification 408.
2. The Contractor shall determine the design rates of application for primer, primerbinder, binder, surface pre-treatments, remedial works and aggregate in accordance with the procedures set out in the current Austroads Sprayed Seal design method as listed in Section 175.
3. At least 1 week prior to the commencement of sealing works, the contractor shall submit the rates of application for bituminous material, aggregate, and rates for pre treatment for review by the Superintendent's Representative. This should be done via submission in writing of the form: 408.16 'Schedule of details' in VicRoads specification 408.
4. Prime shall be given a minimum of 24 hours absorbtion/dry time.
5. BRIDGE DECK NOTE: The concrete bridge deck is to be thoroughly cleaned with high pressure water prior to priming. The primer rate on the concrete deck should be between 0.25-0.3 litre/m2.
6. At the completion of works, a job completion report (JCR) is to be submitted to the superintendent for review. The JCR form can be found in VicRoads Specification 408 Attachment A.
7. Loose aggregate shall be removed within 48 hours of sealing or as directed by the Superintendent's Representative.

DRAINAGE CONSTRUCTION NOTES

1. The Superintendent's Representative and Design Engineer must be notified if any any modifications to drainage design are required due to unforseen circumstances identified during works onsite.
2. Any property storm water pipes located during Works are to be plumbed to the nearest pit. Where this is not practical, seek approval from the Superintendent's Representative to connect stormwater into kerb or into the nearest storm water pipe.
3. All drainage pits are to be constructed as per the noted Standard Drawing.
4. Invert fall through pits is to be a min. of 30mm unless noted otherwise.
5. Concrete pit walls are to be sponge finished and floors are to be shaped for best hydraulic efficiency unless noted otherwise.
6. Pit lids are to be installed flush with the surrounding surface unless noted otherwise.
7. Where concrete box culverts (CBC) or Crown Units are specified, they are to be compliant to AS1597.
8. Pipe extensions are to be constructed by removing the remaining stub of the existing pipe to be extended, and then connecting the new pipe at the socket.
9. All pipe backfill is to be constructed as per the noted Standard Drawing.
10. The location of any saw cuts in asphalt are to be kept the minimum required trench width until after the pipe is laid and backfilled up to 300mm from surface. At this point, a further 150mm wide, 300mm deep section of asphalt/pavement is to be sawcut and excavated so as to provide a longitudinal pavement join over the drainage trench. This also should ensure a straight edge for re-asphalting. The top 300m depth of backfill should then be constructed accordingly.
11. At the completion of the Works, pipes are to be visually inspected via inspection pits to check for construction debris, including crushed rock, soil and concrete over spill. Should a volume of debris be present enough to impede flows, pipe cleaning shall be undertaken at the contractors expense.
12. Gas and water property services are generally not located during the design phase and therefore have not been shown on plans. It is therefore the Contractors responsibility to consider these services when excavating and adjust or realign accordingingly whilst causing minimal disruption to property owners.
13. Gas and Water property services encountered during construction are to be altered and reconnected to the appropriate standard and to the satisfaction of the Superintendents Representative.

SIGNAGE, GUIDE POSTS, DELINEATORS AND GUARD FENCE NOTES

1. All existing signage within Works site to be removed (where required) & reinstated unless noted otherwise or directed by the Superintendent's Representative.
2. All signs to be installed shall be Class 1 high intensity type and comply with the requirements of AS1743.
3. All guideposts are to have delineators satisfying the requirements of AS1906.2 section 3.
4. Guideposts are to be installed 150mm clear of the edge of shoulder or 600mm behind the face of kerb at the spacings detailed below:

Curve Radii (m)	Outside (m)	Inside (m)
< 100	6	12
100 - 199	10	20
199 - 299	15	30
300 - 399	20	40
400 - 599	30	60
600 - 799	40	60
800 - 1199	60	60
1200 - 2000	90	90
Straights	150	150

NOTE:
- Reduce 90m spacings to 60m, or 150m spacings to 75m, in areas subject to fog.
- On guard fence, adjust increments to suit post spacings.
- Post on inside of curve is to be placed opposite post on the outside of the curve wherever practicable.

Guideposts on crests on a straight alignment are to be spaced such that at least 2 pairs of delineators (the nearest pair being not less that 40m ahead of the vehicle) are visible at all times.

On crests with a horizontal curve, this requirement is to be combined with those in the above table.

a) At bridges or culverts the following guidepost and delineator conditions shall apply:

No Guard fence, structure >5m in length:

4 guideposts, one pair at each end.

No Guard fence, Structure <5m in length:

2 guideposts, one on each left hand approach adjacent to the headwall or kerb.

Guard fence and bridge rail within 4m of the closest traffic lane edge:

Delineators to be placed on mounting brackets on guard fence/bridge rail, spaced at 12.5m centres. A delineator shall be located 5.0m from the leading end of the fence, discounting any flared sections of fence (unless the flare is within 4m of the traffic lane, in which case the delineator should be installed on the start of the flare).

Guard fence/bridge rail more than 4.0m from closest traffic lane edge:

Delineators are not placed on the barrier, fence or rail, but guideposts are continued along the edge of formation at the required spacing's shown above.

Delineators are to be colored as per the following:

Red - left side of roadways
White - right side of roadways
yellow - right side of one way roadways

5. RRPMs to be installed according to AS1742.2, Section 5.6

TRAFFIC DATA (AADT)	
EXISTING (2020)	PROJECTED (2040)
818	1121

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

GENERAL NOTES

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 2 OF 29	Reference: GB4861	

PRELIMINARY DESIGN
DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN

ROADSIDE MANAGEMENT NOTES

Unless otherwise directed by the Superintendent's Representative, the following roadside management conditions will apply:

1. Confine machinery operations to the existing road formation or a designated construction zone. Identify machinery turn around point in areas that will not result in disturbance to the existing vegetation.
2. Clearly mark the construction zone prior to the commencement of works. The construction zone is the area where all construction activities take place. (See CoGB 'Roadside Handbook'). The roadside is any area outside the construction zone.
3. Plant and equipment must not be parked on the roadside in this zone.
4. Avoid removal of native vegetation when locating drain cut off points.
5. Spoil from grading and drain construction must not be placed or spread on the roadside. It is to be removed to a recognised dump site or tip, unless approved as fill material for incorporation in the works. Do not spread spoil onto the roadsides.
6. Remove any topsoil (where necessary) prior to works and store in a designated area. Re-use as soon as practical.
7. Incorporate hygienic procedures to minimise spread of weed. After working in weedy or disease affected areas, clean vehicles and machinery of all soil and plant debris prior working on High or Medium conservation value sites or weed free sites.

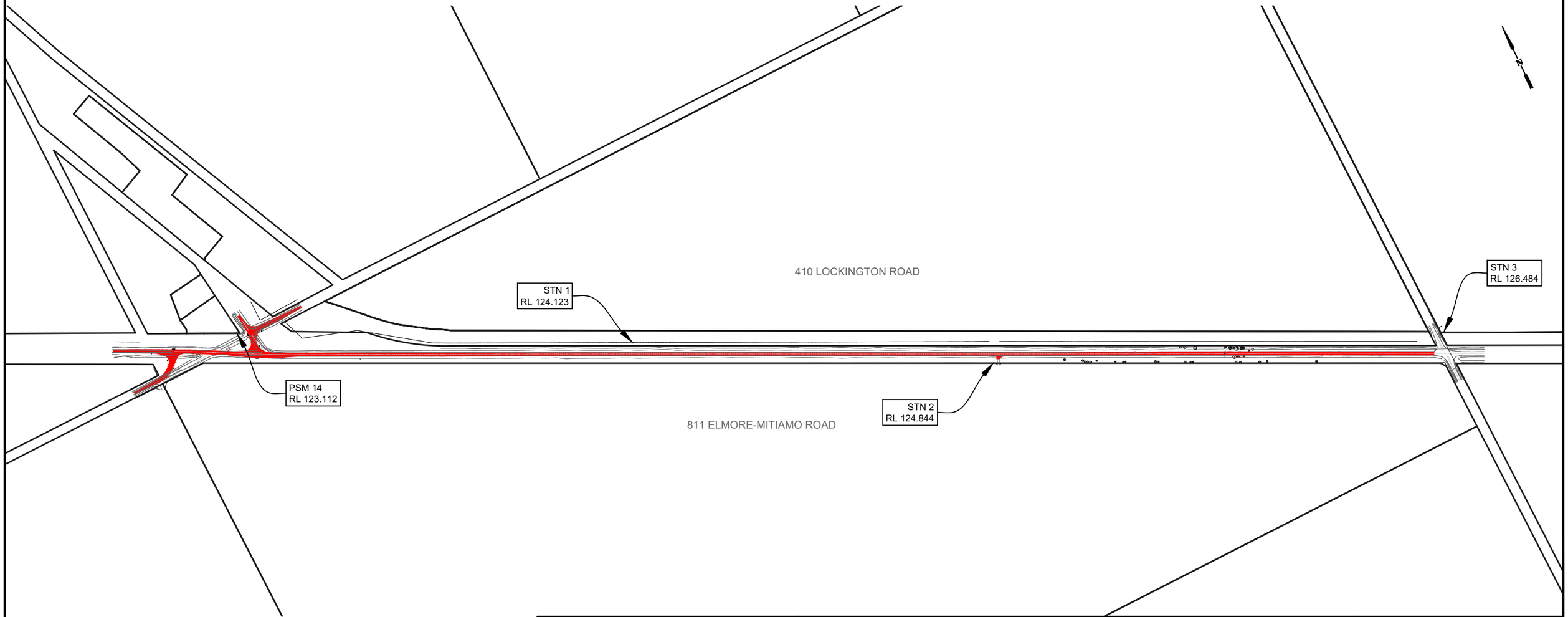
SUBGRADE PREPARATION NOTES:

1. All topsoil, loose/soft, wet, compressible, deleterious soils, existing pavement materials or soils containing significant organic matter must be removed to expose a suitable base;
2. Delays between subgrade stripping, preparation and placement of the subgrade protection layer must be avoided, particularly where wet weather conditions are expected;
3. The exposed subgrade (where applicable) should be scarified and moisture conditioned to within ±3% of Standard Optimum Moisture Content (SOMC) and then compacted to achieve a dry density ratio of not less than 98% Standard in accordance with AS1289 5.1.1 or 5.7.1, 5.4.1 and 5.8.1 or a Density Index of not less than 75%;
4. A proof roll (as per AS3798 requirements) shall be undertaken using a fully loaded water cart (or similar) with any areas of deflections to be rectified subject to further geotechnical advice. Any soil conditions noted during the proof roll/subgrade inspection differing from those discussed in this report must be communicated to Ground Science prior to further construction works taking place;
5. Any wet, soft or weak areas identified during the subgrade compaction process that do not respond to further compaction, should be removed and replaced with suitable engineered fill with a 4-day soaked CBR value of equal to or more than 4. Excavations to remove any soft or weak areas should have side slopes battered not steeper than 1.5H:1V. Where extensive soft or weak areas are encountered, it is recommended that further geotechnical advice should be sought.

SUB-BASE CONSTRUCTION NOTES

1. Pulverise existing road pavement (including seal) to a nominated depth ensuring that all asphalt and seal is grounded to a suitable size for workability.
2. Pulverised material to be windrowed and mixed to create a consistent mix over the full width of the road before spreading, trimming and lightly compacting/shaping to form desired subgrade road level.
3. After the completion of excavation to subgrade/sub-base finished level, material shall be inspected by the Superintendent's Representative before any stabilising commences. The nominated stabilising product, blend and spread rate shall then be confirmed at this point once the formed subgrade material has been visually assessed by the Superintendent's Representative.
4. Subgrade to be treated and stabilised as per the Stabilising Contractor's guidance to achieve a 28-day UCS result of 2MPa and compacted to not less than 98% Modified Compaction.
5. Within 4 hours of binder being added, subgrade material should be graded & trimmed to level and compacted to a minimum density ratio of 98% Modified Maximum Dry Density.
6. The Superintendents Representative will require density testing results of the subgrade as well as Unconfined Compressive Strength (UCS) Tests to confirm that the stabilising has achieved a satisfactory result.
7. Proof rolling of the Subgrade, Sub base and Base must be undertaken as per Section 12.7.15 of the IDM. Proof rolling will be at the expense of the contractor in accordance with AS3798 and the requirements of section 173 and 204.12 of the VicRoad's Specification. The Superintendent's Representative must be present during the proof rolling. The Subgrade must not deflect more than 2mm vertically within 300mm of the test roller in isolated locations.
8. Identification and treatment of soft areas during proof rolling shall be dealt with as per Sections 12.7.13 and 12.7.14 of the IDM and as approved by the Superintendent's Representative.

STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1	277240.758	5963674.984	124.123
902	STN 2	277862.095	5963333.258	124.844
903	STN 3	278685.378	5963005.034	126.484
904	PSM 14	276547.796	5964029.012	123.112



AMENDMENTS			
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CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

OVERALL LAYOUT & CONTROL

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: 1:7500	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 3 OF 29	Reference: GB4861	

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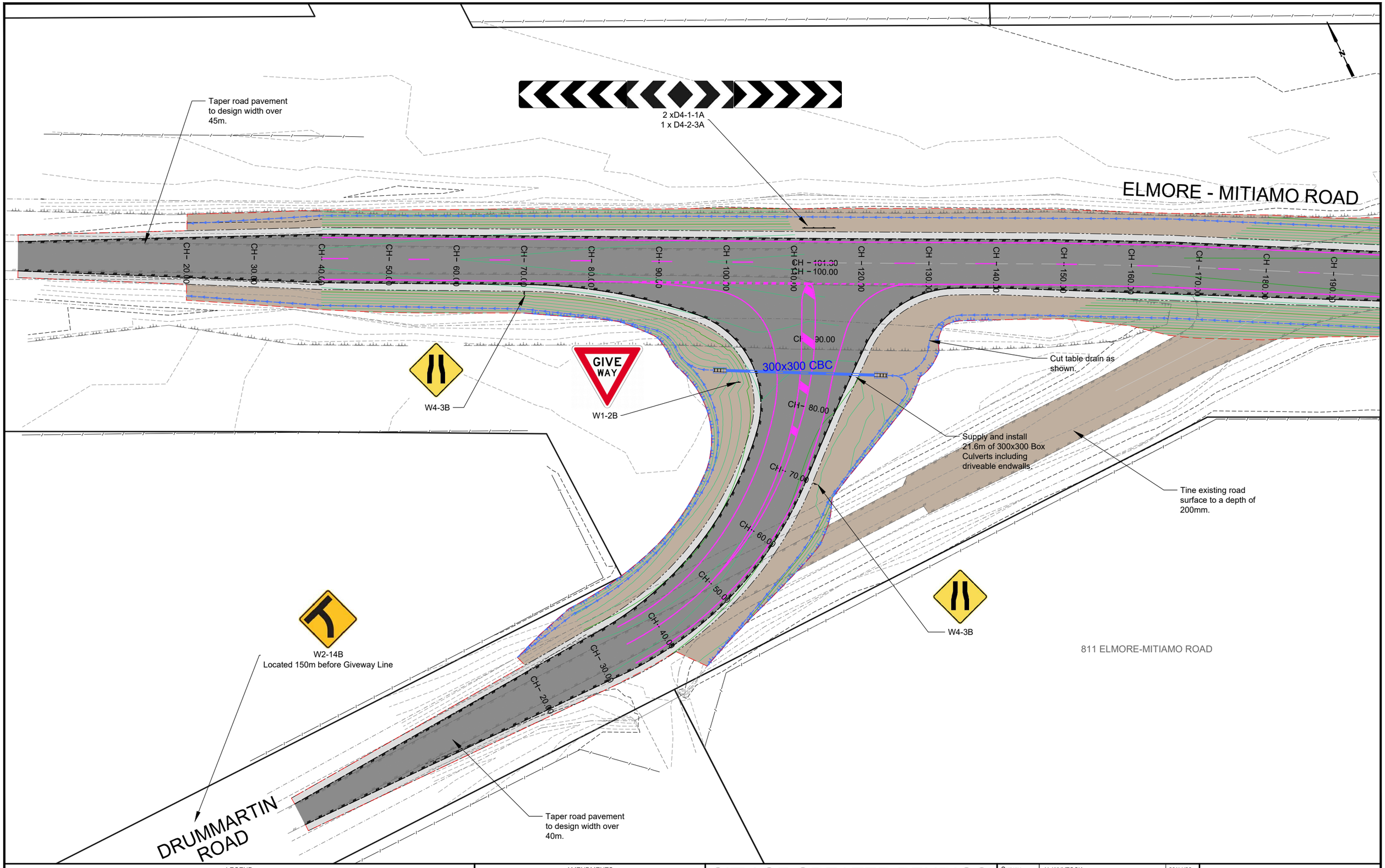
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



LEGEND

- DESIGN PAVEMENT: Refer to Page 2 Typical Pavement Details
- UNSEALED SHOULDER: Refer to Page 2 Typical Pavement Details
- BATTERS & EARTHWORKS: Batters at 1:4
- DESIGN CONTOUR 0.10m interval
- EXISTING CONTOUR 0.10m interval
- Removal: Tree
- DESIGN EDGE OF SEAL
- DESIGN SHOULDER
- DESIGN INVERT
- DESIGN BATTER
- DESIGN LINEMARKING

AMENDMENTS

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CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
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DETAIL LAYOUT

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
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PRELIMINARY DESIGN DRAFT 3

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KEANE ROAD

DRUMMARTIN ROAD

Modify W2-14 sign to include a thin line as shown.

W2-14B
Located 150m before Giveway Line

W4-3B

Taper road pavement to design width over 50m.

Taper road pavement to design width over 20m.

Cut table drain as shown.

9 KEANE ROAD

W2-3B
Located 150m before Giveway Line

410 LOCKINGTON ROAD

GIVE WAY

W1-2B

300x300 CBC

PSM 14
RL 123.112

D4-1-1A

Supply and install 14.4m of 300x300 Box Culverts including driveable endwalls.

Tine existing road surface to a depth of 200mm.

Cut table drain as shown.

Supply and install 19.2m of 300x300 Box Culverts including driveable endwalls.

W4-3B

Cut table drain as shown.

GIVE WAY

W1-2B

CH – 200.00 CH – 210.00 CH – 220.00 CH – 230.00 CH – 240.00 CH – 250.00 CH – 260.00 CH – 270.00 CH – 280.00 CH – 290.00 CH – 300.00 CH – 310.00 CH – 320.00 CH – 330.00 CH – 340.00 CH – 350.00 CH – 360.00 CH – 370.00 CH – 380.00 CH – 390.00

ELMORE - MITIAMO ROAD

Widen sealed pavement to 6.5m to form BAR CH260-310.
Widening to occur over 47.2m

811 ELMORE-MITIAMO ROAD

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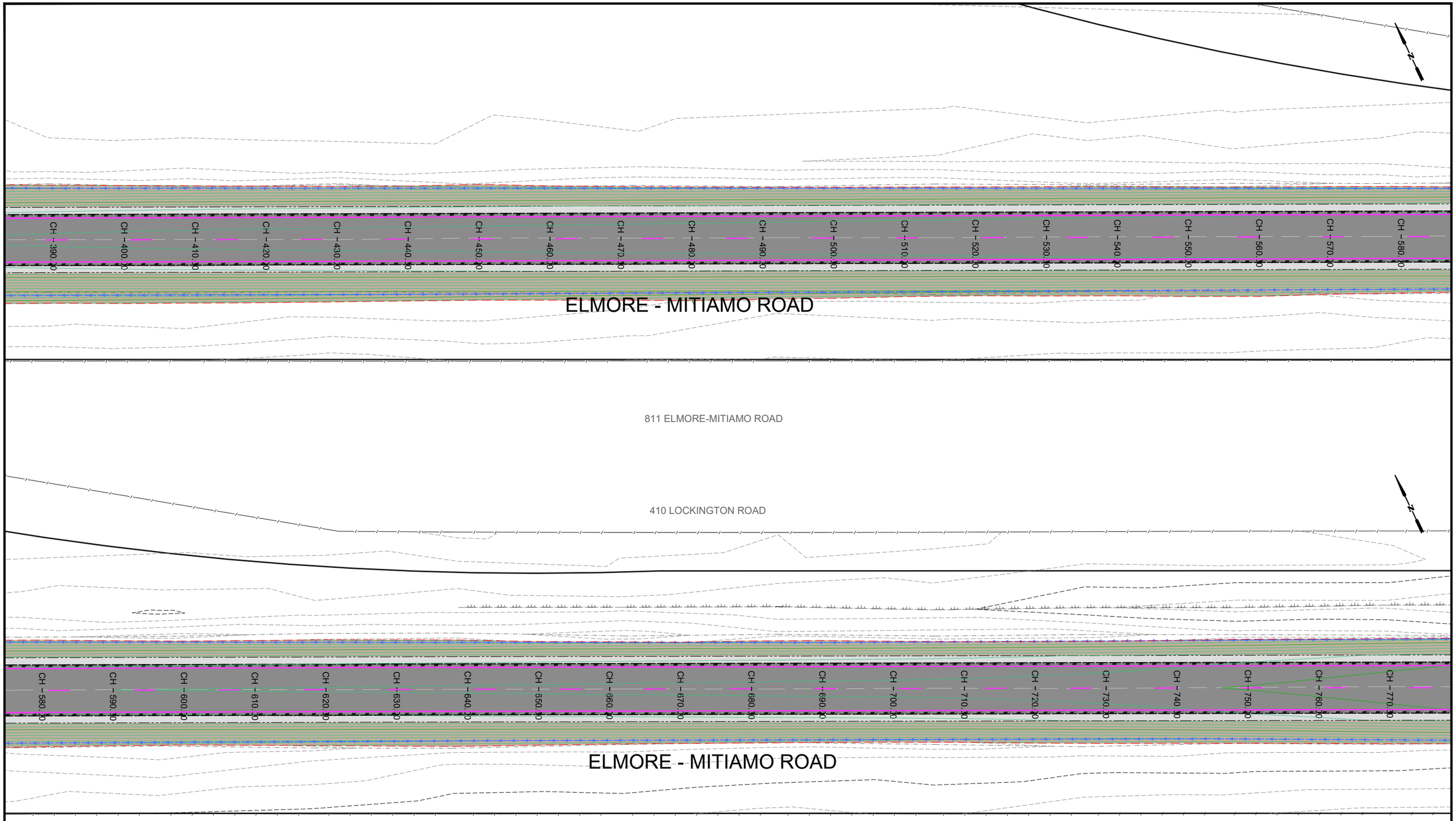

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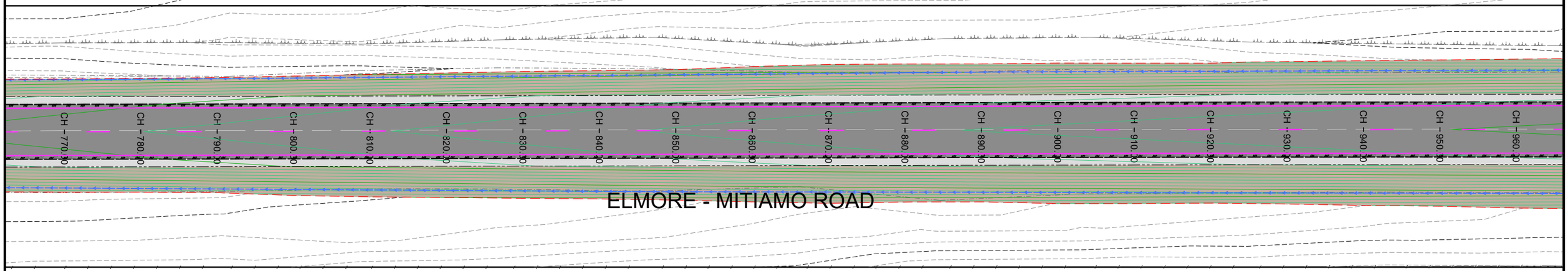
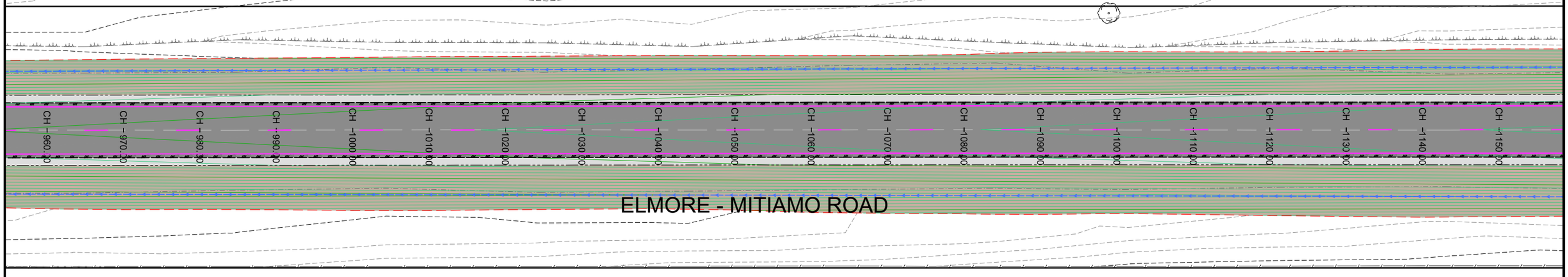
410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

STN 1
RL 124.123

410 LOCKINGTON ROAD



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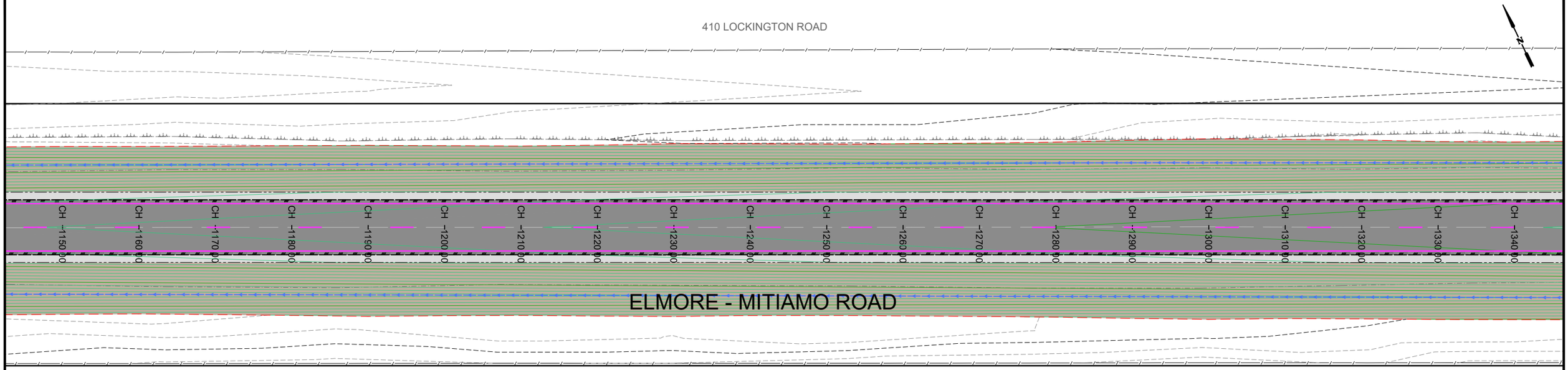
DETAIL LAYOUT

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: 1:500	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 7 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

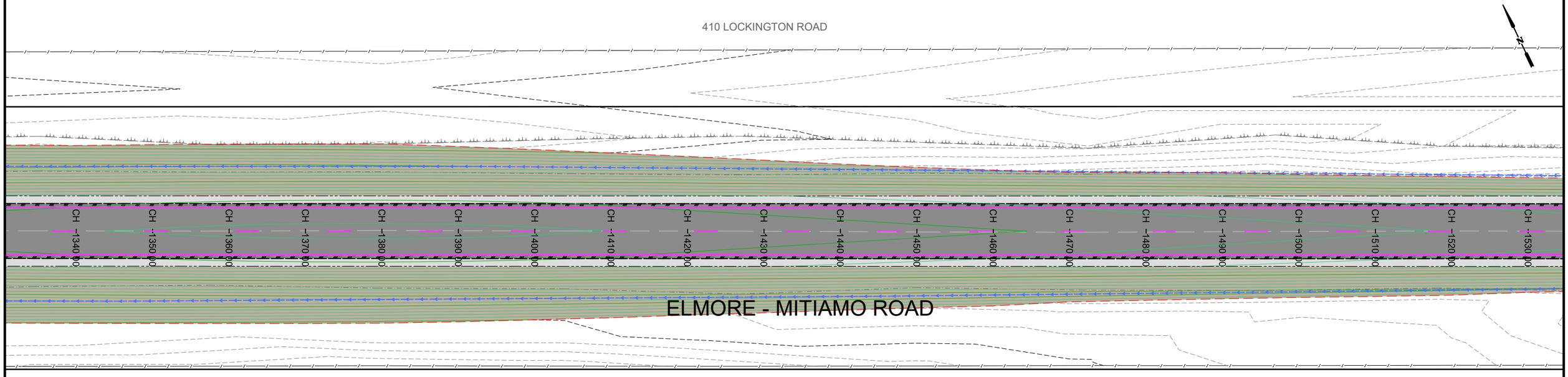
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN

410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

LEGEND

- DESIGN PAVEMENT: Refer to Page 2 Typical Pavement Details
- UNSEALED SHOULDER: Refer to Page 2 Typical Pavement Details
- BATTERS & EARTHWORKS: Batters at 1:4
- DESIGN CONTOUR 0.10m interval
- EXISTING CONTOUR 0.10m interval
- Removal: Tree
- DESIGN EDGE OF SEAL
- DESIGN SHOULDER
- DESIGN INVERT
- DESIGN BATTER
- DESIGN LINEMARKING

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

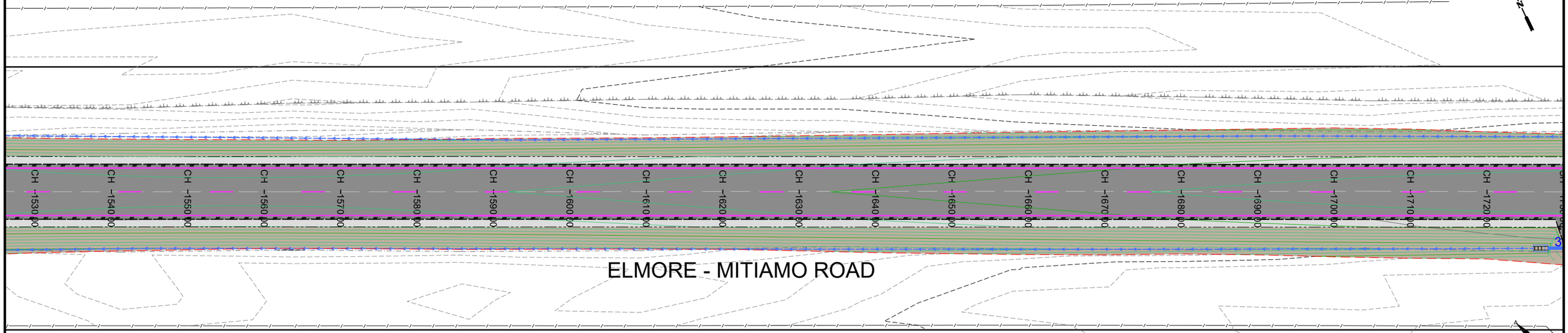
DETAIL LAYOUT

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: 1:500	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 8 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

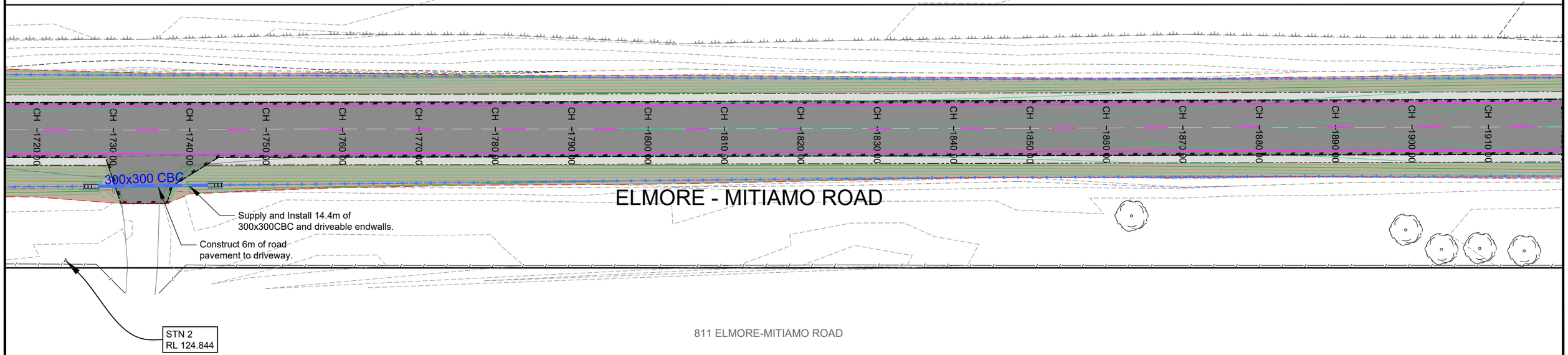
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN

410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

LEGEND

- DESIGN PAVEMENT: Refer to Page 2 Typical Pavement Details
- UNSEALED SHOULDER: Refer to Page 2 Typical Pavement Details
- BATTERS & EARTHWORKS: Batters at 1:4
- DESIGN CONTOUR 0.10m interval
- EXISTING CONTOUR 0.10m interval
- Removal: Tree
- DESIGN EDGE OF SEAL
- DESIGN SHOULDER
- DESIGN INVERT
- DESIGN BATTER
- DESIGN LINEMARKING

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

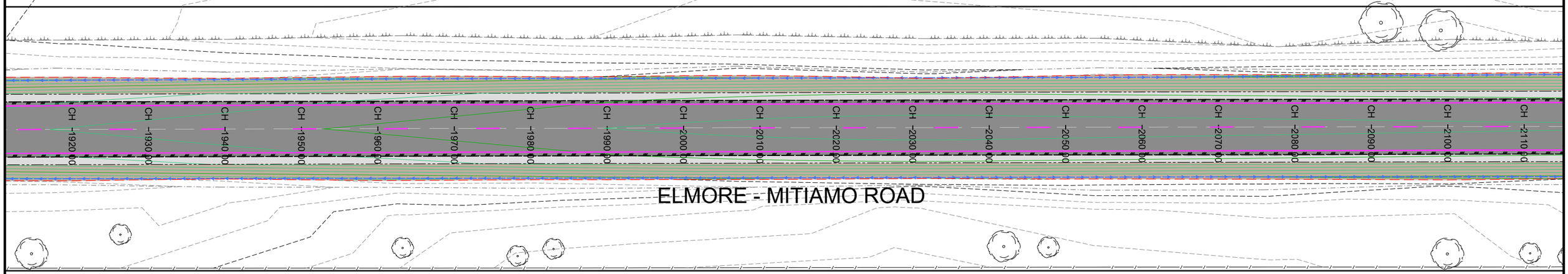
DETAIL LAYOUT

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: 1:500	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 9 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

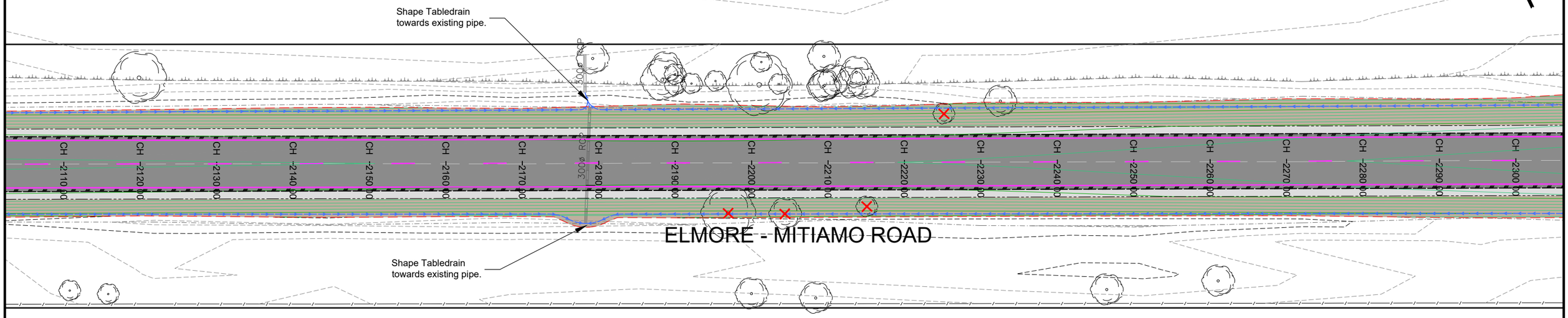
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN

410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

410 LOCKINGTON ROAD



811 ELMORE-MITIAMO ROAD

LEGEND

- DESIGN PAVEMENT: Refer to Page 2 Typical Pavement Details
- UNSEALED SHOULDER: Refer to Page 2 Typical Pavement Details
- BATTERS & EARTHWORKS: Batters at 1:4
- DESIGN CONTOUR 0.10m interval
- EXISTING CONTOUR 0.10m interval
- Removal: Tree
- DESIGN EDGE OF SEAL
- DESIGN SHOULDER
- DESIGN INVERT
- DESIGN BATTER
- DESIGN LINEMARKING

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

DETAIL LAYOUT

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: 1:500	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 10 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023

Plotted By: BAYLEY JANSSEN

410 LOCKINGTON ROAD

ELMORE - MITIAMO ROAD

CH 2300.00 CH 2310.00 CH 2320.00 CH 2330.00 CH 2340.00 CH 2350.00 CH 2360.00 CH 2370.00 CH 2380.00 CH 2390.00 CH 2400.00 CH 2410.00 CH 2420.00 CH 2430.00 CH 2440.00 CH 2450.00 CH 2460.00 CH 2470.00 CH 2480.00 CH 2490.00

811 ELMORE-MITIAMO ROAD

410 LOCKINGTON ROAD

Shape Tabledrain
invert to existing pipe.

LOCKINGTON ROAD

STN 3
RL 126.484

410 LOCKINGTON ROAD

ELMORE - MITIAMO ROAD

CH 2490.00 CH 2500.00 CH 2510.00 CH 2520.00 CH 2530.00 CH 2540.00 CH 2550.00 CH 2560.00 CH 2570.00 CH 2580.00 CH 2590.00 CH 2600.00

811 ELMORE-MITIAMO ROAD

LEGEND

- DESIGN PAVEMENT: Refer to Page 2 Typical Pavement Details
- UNSEALED SHOULDER: Refer to Page 2 Typical Pavement Details
- BATTERS & EARTHWORKS: Batters at 1:4
- DESIGN CONTOUR 0.10m interval
- EXISTING CONTOUR 0.10m interval
- Removal: Tree
- DESIGN EDGE OF SEAL
- DESIGN SHOULDER
- DESIGN INVERT
- DESIGN BATTER
- DESIGN LINEMARKING

AMENDMENTS

Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

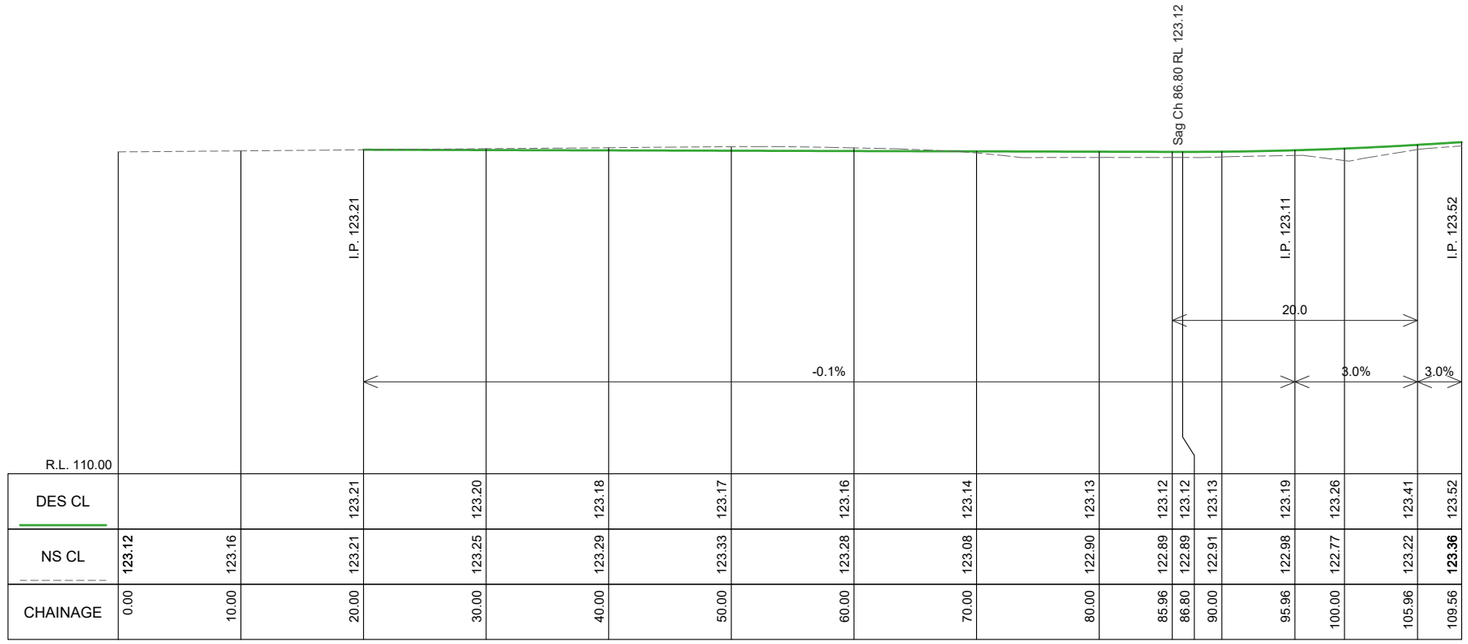
DETAIL LAYOUT

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22

Scale: 1:500 | Revision : A
Original sheet size: A3 | File : GB4861.dwg
Sheet: 11 OF 29 | Reference: GB4861

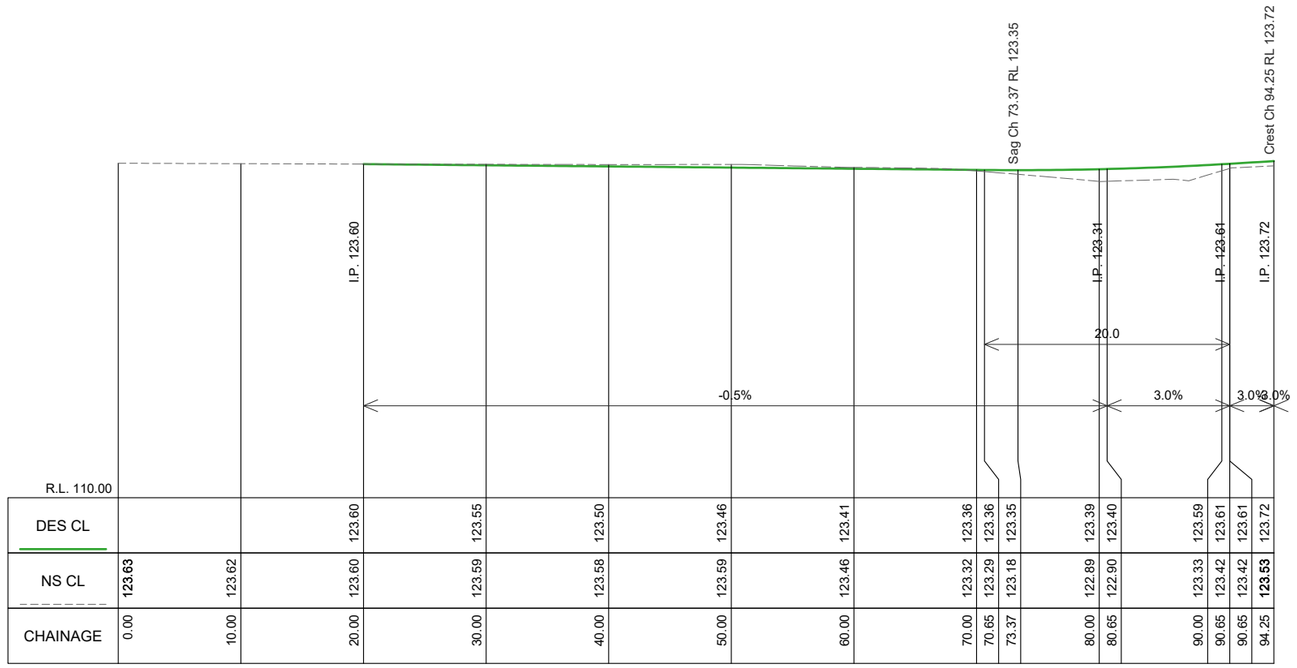
PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



DES CL			123.21	123.20	123.18	123.17	123.16	123.14	123.13	123.12	123.12	123.13	123.19	123.26	123.41	123.52						
NS CL	**123.12**	123.16	123.21	123.25	123.29	123.33	123.28	123.08	122.90	122.89	122.89	122.91	122.98	122.77	123.22	**123.36**						
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	85.96	86.80	90.00	95.96	100.00	105.96	109.56						

Drummartin Road North LONGITUDINAL SECTION CH 0.000 To 109.560
SCALES: H 1:500 V 1:250 (A3)



DES CL			123.60	123.55	123.50	123.46	123.41	123.36	123.36	123.36	123.35	123.39	123.40	123.59	123.61	123.61	123.72					
NS CL	**123.63**	123.62	123.60	123.59	123.58	123.59	123.46	123.32	123.29	123.18	122.89	122.90	123.33	123.42	123.42	**123.53**						
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	70.65	73.37	80.00	80.65	90.00	90.65	90.65	94.25						

Keane Road LONGITUDINAL SECTION CH 0.000 To 94.251
SCALES: H 1:500 V 1:250 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

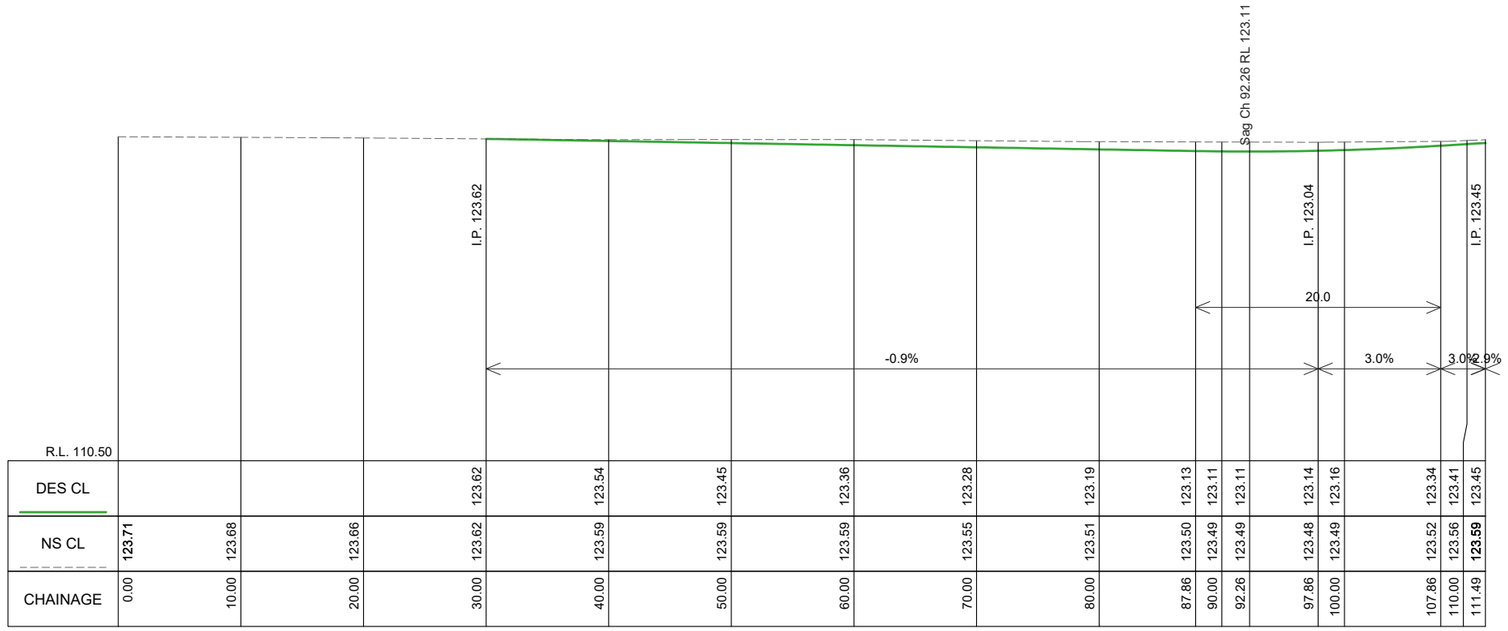
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD LONGITUDINAL SECTIONS

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 12 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



R.L. 110.50

DES CL				123.62	123.54	123.45	123.36	123.28	123.19	123.13	123.11	123.11	123.14	123.16	123.34	123.41	123.45						
NS CL	**123.71**	123.68	123.66	123.62	123.59	123.59	123.59	123.55	123.51	123.50	123.49	123.49	123.48	123.49	123.52	123.56	**123.59**						
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	87.86	90.00	92.26	97.86	100.00	107.86	110.00	111.49						

Drummartin Road East LONGITUDINAL SECTION CH 0.000 To 111.494
SCALES: H 1:500 V 1:250 (A3)

R.L. 110.00

Table Drain		122.63	122.64	122.65	122.66	122.67	122.68	122.69	122.70	122.71	122.72	122.72	122.73	122.74	122.75	122.76	122.77	122.78	122.79	122.80	122.81	122.82	122.83
DES CL		123.19	123.22	123.24	123.27	123.30	123.33	123.35	123.38	123.41	123.43	123.44	123.46	123.48	123.50	123.51	123.53	123.54	123.56	123.57	123.58	123.60	123.61
NS CL	123.16	123.19	123.19	123.20	123.21	123.21	123.20	123.22	123.24	123.26	123.29	123.29	123.33	123.38	123.39	123.39	123.37	123.37	123.37	123.37	123.38	123.38	123.38
CHAINAGE	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	112.22	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00

Table Drain	122.84	122.85	122.86	122.87	122.88	122.89	122.90	122.91	122.91	122.92	122.93	122.94	122.95	122.96	122.97	122.98	122.99						
DES CL	123.62	123.64	123.65	123.66	123.68	123.69	123.70	123.72	123.72	123.73	123.74	123.75	123.77	123.78	123.79	123.81	123.82						
NS CL	123.40	123.43	123.47	123.50	123.52	123.54	123.56	123.60	123.61	123.63	123.65	123.66	123.65	123.65	123.67	123.69	123.71						
CHAINAGE	230.00	240.00	250.00	260.00	270.00	280.00	290.00	300.00	305.00	310.00	320.00	330.00	340.00	350.00	360.00	370.00	380.00						

Elmore-Mitiamo Road LONGITUDINAL SECTION CH 10.000 To 380.000
SCALES: H 1:1000 V 1:250 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

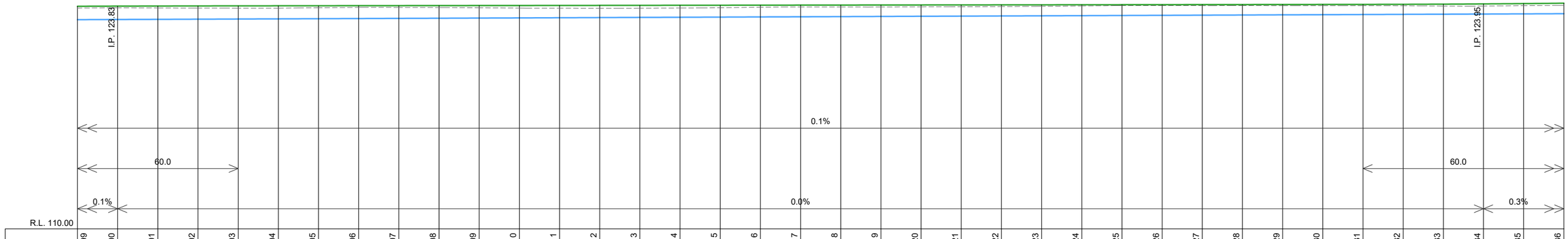
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD LONGITUDINAL SECTIONS

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 13 OF 29	Reference: GB4861	

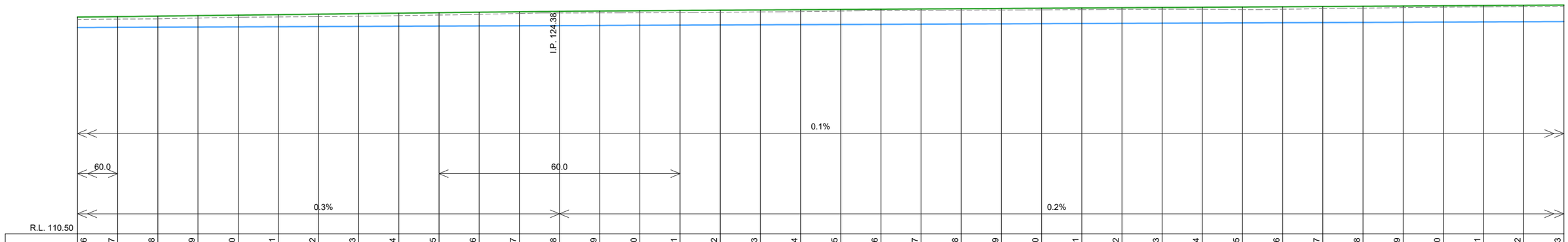
PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



CHAINAGE	380.00	390.00	400.00	410.00	420.00	430.00	440.00	450.00	460.00	470.00	480.00	490.00	500.00	510.00	520.00	530.00	540.00	550.00	560.00	570.00	580.00	590.00	600.00	610.00	620.00	630.00	640.00	650.00	660.00	670.00	680.00	690.00	700.00	710.00	720.00	730.00	740.00	750.00
NS CL	123.71	123.72	123.71	123.71	123.70	123.70	123.73	123.75	123.75	123.74	123.72	123.71	123.70	123.70	123.70	123.71	123.73	123.76	123.78	123.77	123.78	123.78	123.79	123.81	123.82	123.84	123.86	123.86	123.86	123.86	123.86	123.86	123.86	123.85	123.84	123.84	123.86	123.87
DES CL	123.82	123.83	123.83	123.84	123.84	123.85	123.85	123.85	123.86	123.86	123.86	123.87	123.87	123.87	123.88	123.88	123.88	123.89	123.89	123.89	123.90	123.90	123.90	123.91	123.91	123.91	123.92	123.92	123.92	123.93	123.93	123.93	123.94	123.94	123.95	123.97	123.99	124.01
Table Drain	122.99	123.00	123.01	123.02	123.03	123.04	123.05	123.06	123.07	123.08	123.09	123.10	123.11	123.12	123.13	123.14	123.15	123.16	123.17	123.18	123.19	123.20	123.21	123.22	123.23	123.24	123.25	123.26	123.27	123.28	123.29	123.30	123.31	123.32	123.33	123.34	123.35	123.36

Elmore-Mitiamo Road LONGITUDINAL SECTION CH 380.000 To 750.000
SCALES: H 1:1000 V 1:250 (A3)



CHAINAGE	750.00	760.00	770.00	780.00	790.00	800.00	810.00	820.00	830.00	840.00	850.00	860.00	870.00	880.00	890.00	900.00	910.00	920.00	930.00	940.00	950.00	960.00	970.00	980.00	990.00	1000.00	1010.00	1020.00	1030.00	1040.00	1050.00	1060.00	1070.00	1080.00	1090.00	1100.00	1110.00	1120.00
NS CL	123.87	123.88	123.90	123.95	124.00	124.02	124.04	124.06	124.09	124.14	124.18	124.23	124.27	124.27	124.28	124.29	124.31	124.33	124.35	124.39	124.41	124.43	124.44	124.45	124.46	124.48	124.49	124.50	124.50	124.48	124.50	124.54	124.57	124.60	124.62	124.64	124.65	124.66
DES CL	124.01	124.04	124.07	124.10	124.13	124.16	124.19	124.22	124.25	124.28	124.31	124.34	124.36	124.39	124.40	124.42	124.44	124.45	124.47	124.48	124.50	124.51	124.53	124.54	124.56	124.57	124.59	124.60	124.62	124.64	124.65	124.67	124.68	124.70	124.71	124.73	124.74	124.76
Table Drain	123.36	123.37	123.38	123.39	123.40	123.41	123.42	123.43	123.44	123.45	123.46	123.47	123.48	123.49	123.50	123.51	123.52	123.53	123.54	123.55	123.56	123.57	123.58	123.59	123.60	123.61	123.62	123.63	123.64	123.65	123.66	123.67	123.68	123.69	123.70	123.71	123.72	123.73

Elmore-Mitiamo Road LONGITUDINAL SECTION CH 750.000 To 1120.000
SCALES: H 1:1000 V 1:250 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

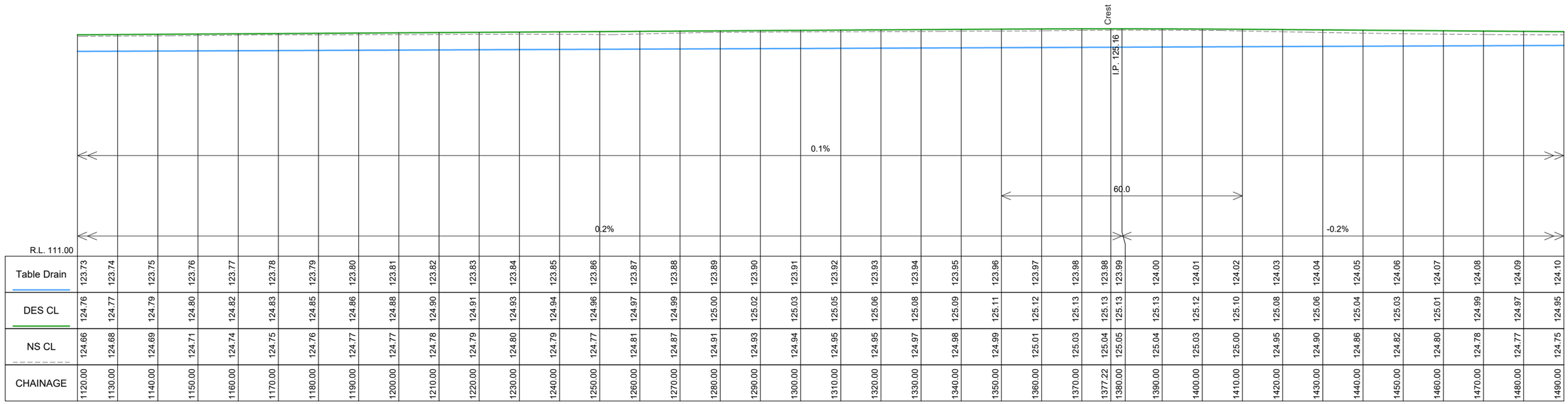
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD LONGITUDINAL SECTIONS

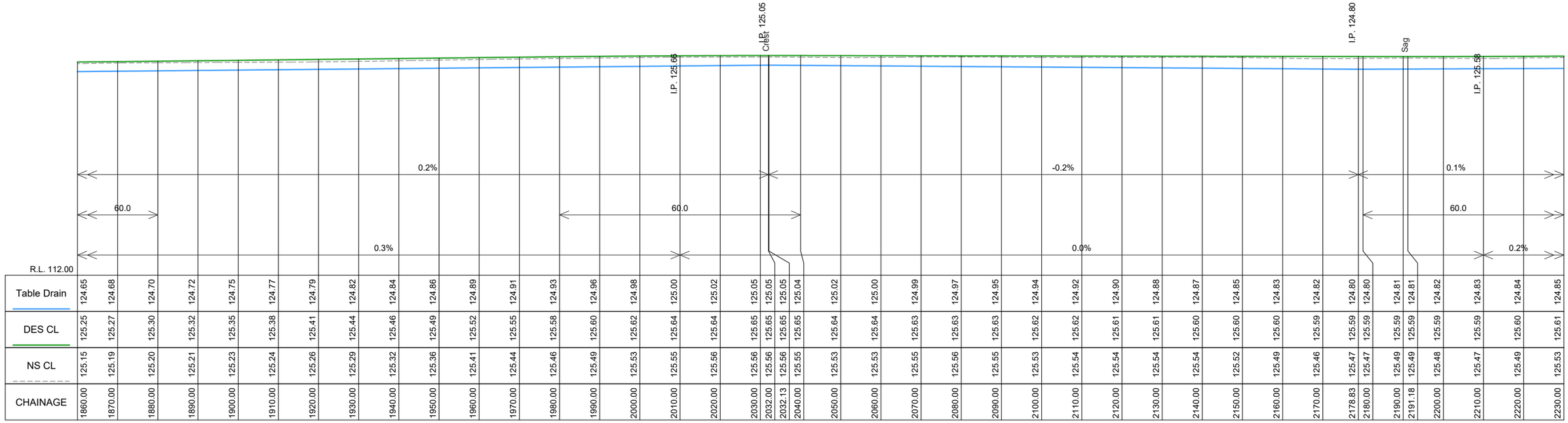
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 14 OF 29	Reference: GB4861	

PRELIMINARY DESIGN
DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN

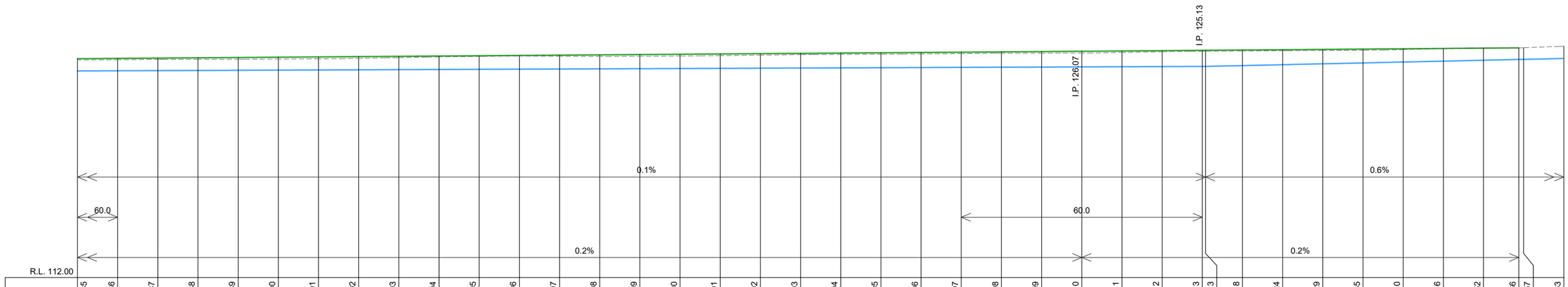

Crest
I.P. 125.16
0.1%
0.2%
60.0
-0.2%
R.L. 111.00

| | | |



CHAINAGE	Table Drain	DES CL	NS CL
1860.00	124.65	125.25	125.15
1870.00	124.68	125.27	125.19
1880.00	124.70	125.30	125.20
1890.00	124.72	125.32	125.21
1900.00	124.75	125.35	125.23
1910.00	124.77	125.38	125.24
1920.00	124.79	125.41	125.26
1930.00	124.82	125.44	125.29
1940.00	124.84	125.46	125.32
1950.00	124.86	125.49	125.36
1960.00	124.89	125.52	125.41
1970.00	124.91	125.55	125.44
1980.00	124.93	125.58	125.46
1990.00	124.96	125.60	125.49
2000.00	124.98	125.62	125.53
2010.00	125.00	125.64	125.55
2020.00	125.02	125.64	125.56
2030.00	125.05	125.65	125.56
2032.00	125.05	125.65	125.56
2032.13	125.05	125.65	125.56
2040.00	125.04	125.65	125.55
2050.00	125.02	125.64	125.53
2060.00	125.00	125.64	125.53
2070.00	124.99	125.63	125.55
2080.00	124.97	125.63	125.56
2090.00	124.95	125.63	125.55
2100.00	124.94	125.62	125.53
2110.00	124.92	125.62	125.54
2120.00	124.90	125.61	125.54
2130.00	124.88	125.61	125.54
2140.00	124.87	125.60	125.54
2150.00	124.85	125.60	125.52
2160.00	124.83	125.60	125.49
2170.00	124.82	125.59	125.46
2178.83	124.80	125.59	125.47
2180.00	124.80	125.59	125.47
2190.00	124.81	125.59	125.49
2191.18	124.81	125.59	125.49
2200.00	124.82	125.59	125.48
2210.00	124.83	125.59	125.47
2220.00	124.84	125.60	125.49
2230.00	124.85	125.61	125.53

Elmore-Mitiamo Road LONGITUDINAL SECTION CH 1860.000 To 2230.000
SCALES: H 1:1000 V 1:250 (A3)



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2250.00	124.87	125.65	125.57
2260.00	124.88	125.67	125.57
2270.00	124.89	125.69	125.58
2280.00	124.90	125.70	125.59
2290.00	124.91	125.72	125.60
2300.00	124.92	125.74	125.63
2310.00	124.93	125.76	125.68
2320.00	124.94	125.78	125.72
2330.00	124.95	125.80	125.75
2340.00	124.96	125.81	125.78
2350.00	124.97	125.83	125.77
2360.00	124.98	125.85	125.75
2370.00	124.99	125.87	125.76
2380.00	125.00	125.89	125.78
2390.00	125.01	125.91	125.80
2400.00	125.02	125.92	125.83
2410.00	125.03	125.94	125.86
2420.00	125.04	125.96	125.88
2430.00	125.05	125.98	125.89
2440.00	125.06	126.00	125.91
2450.00	125.07	126.02	125.93
2460.00	125.08	126.04	125.95
2470.00	125.09	126.05	125.96
2480.00	125.10	126.07	125.96
2490.00	125.11	126.09	126.00
2500.00	125.12	126.11	126.04
2510.00	125.13	126.13	126.08
2510.81	125.13	126.13	126.08
2520.00	125.18	126.15	126.09
2530.00	125.24	126.17	126.11
2540.00	125.29	126.19	126.12
2550.00	125.35	126.21	126.14
2560.00	125.40	126.23	126.18
2570.00	125.46	126.25	126.24
2580.00	125.52	126.27	126.28
2588.80	125.56	126.29	126.29
2590.00	125.57		126.30
2600.00	125.63		126.38

Elmore-Mitiamo Road LONGITUDINAL SECTION CH 2230.000 To 2600.000
SCALES: H 1:1000 V 1:250 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

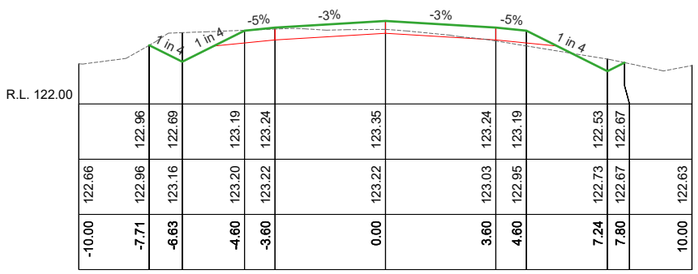
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD LONGITUDINAL SECTIONS

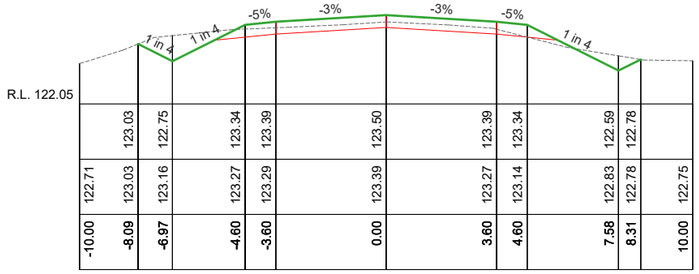
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 16 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



Ch 80.00



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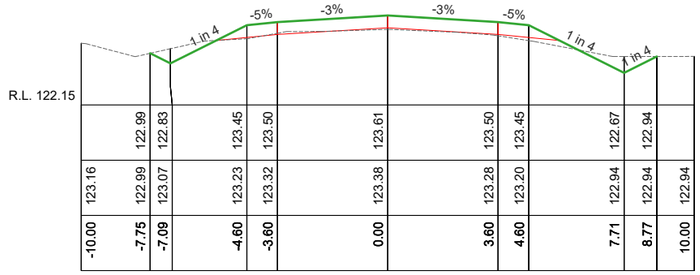

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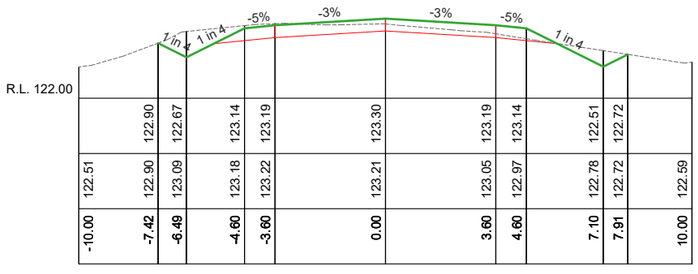

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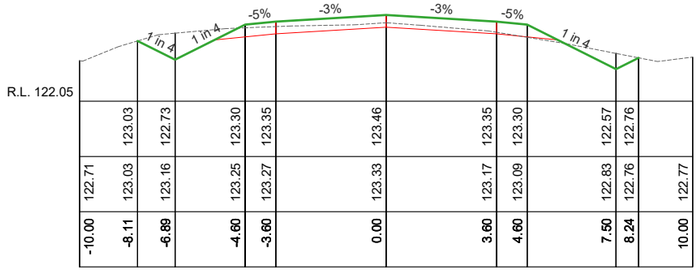

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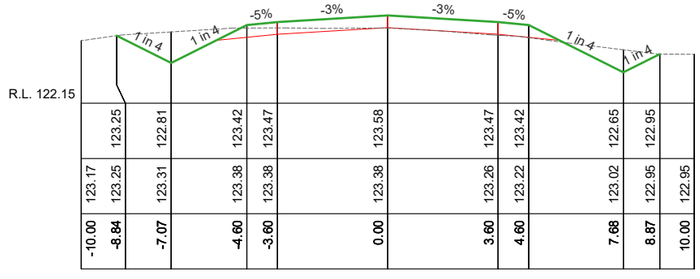
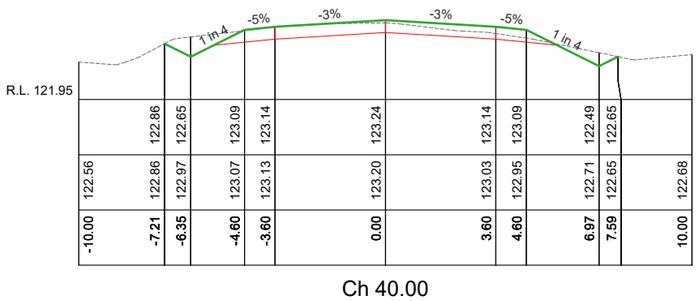
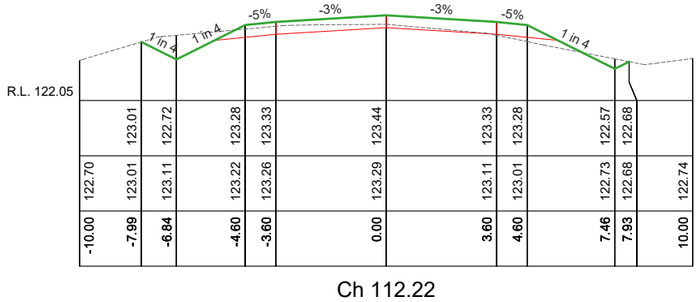


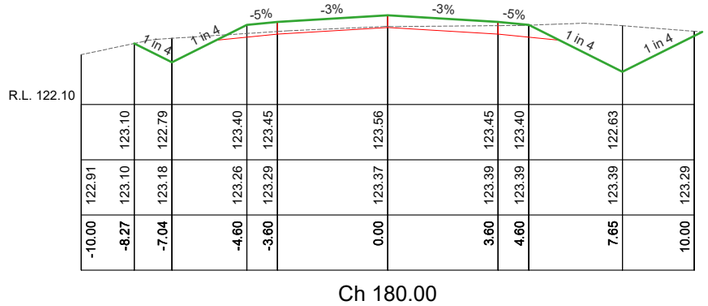
Ch 200.00



Ch 40.00



Ch 112.22



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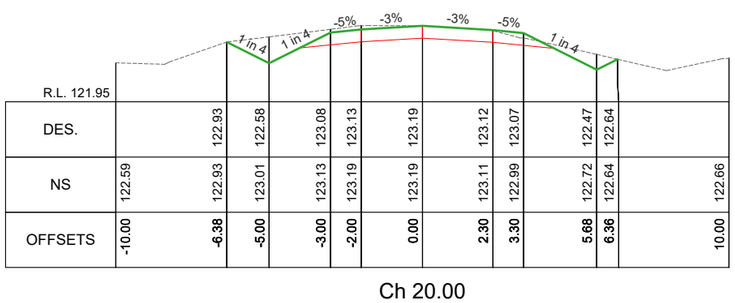
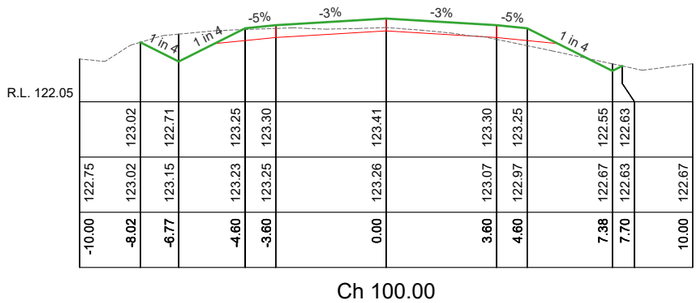
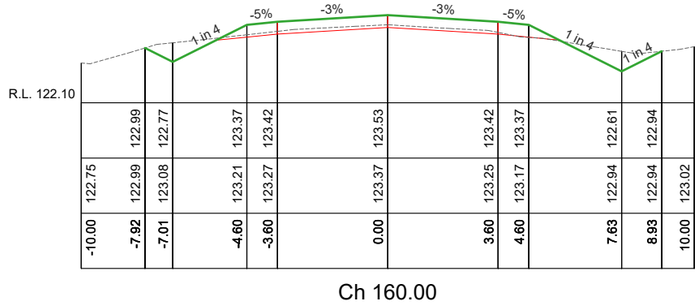


Ch 20.00



Ch 100.00



Ch 160.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

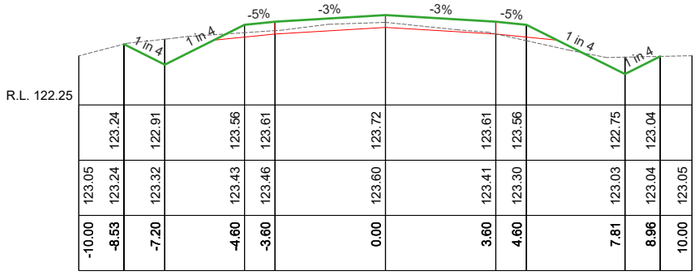
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

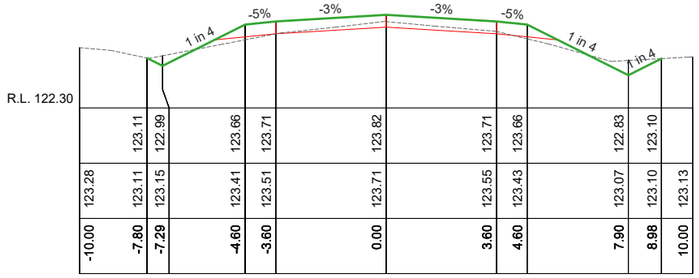
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 17 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

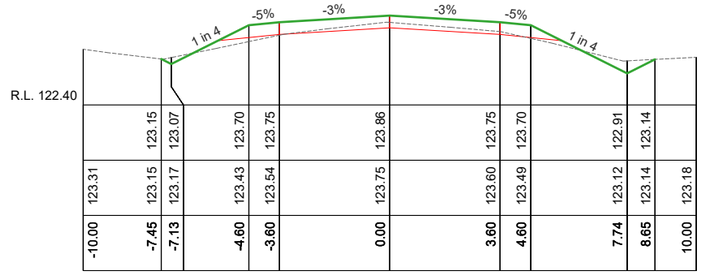
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



Ch 300.00



Ch 380.00



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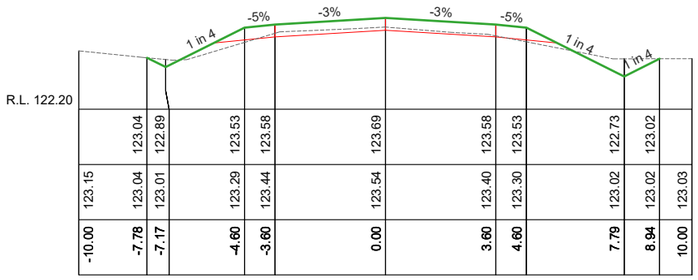

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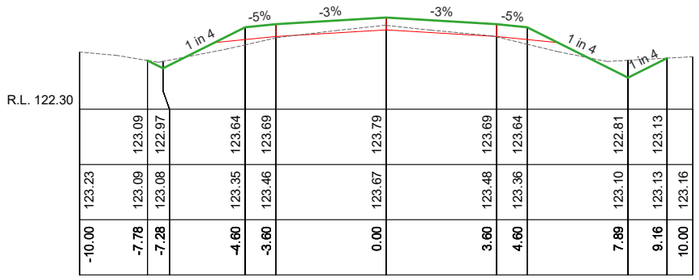

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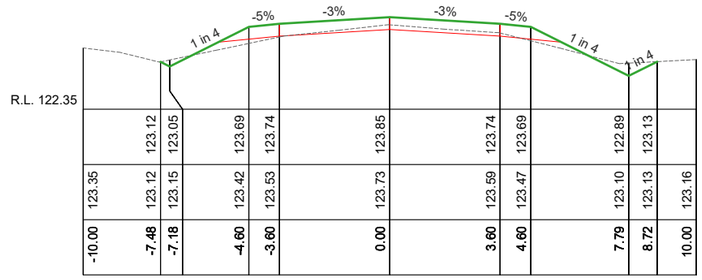

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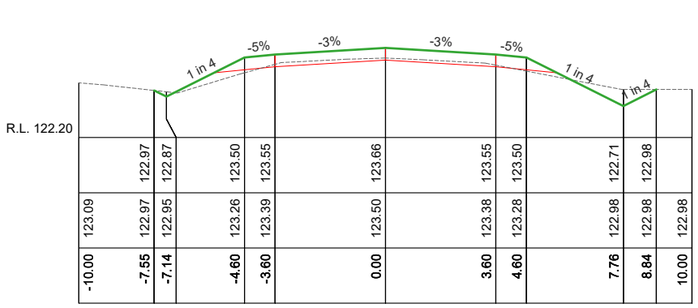
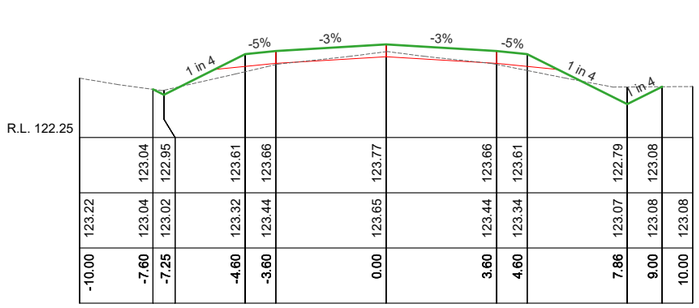


Ch 260.00



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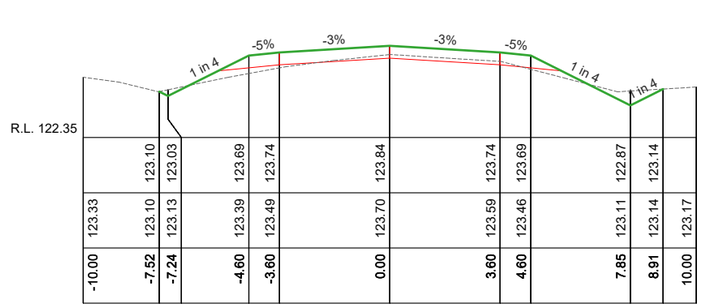

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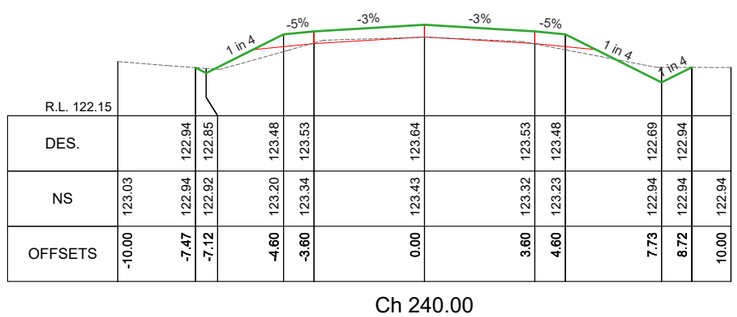

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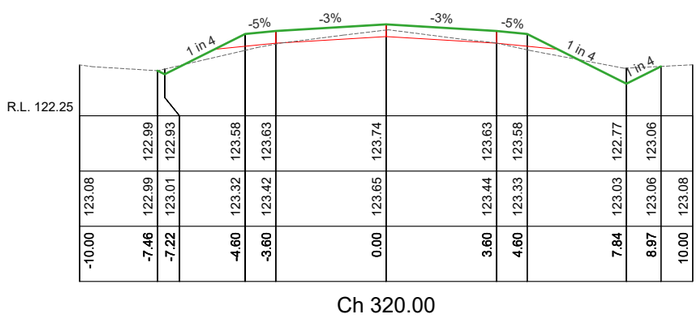
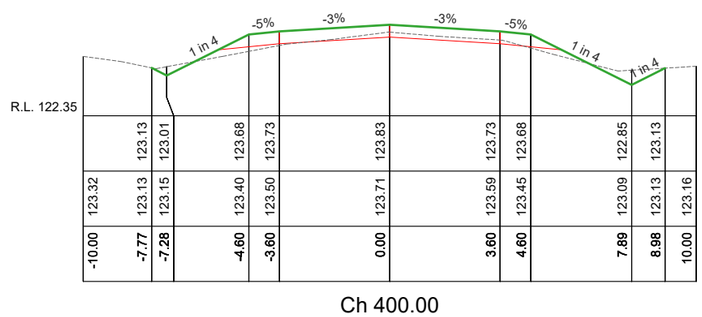


Ch 320.00



Ch 400.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

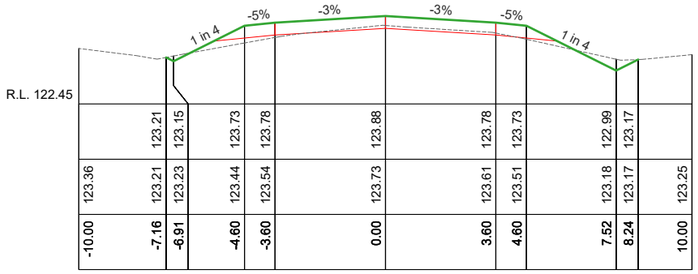
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

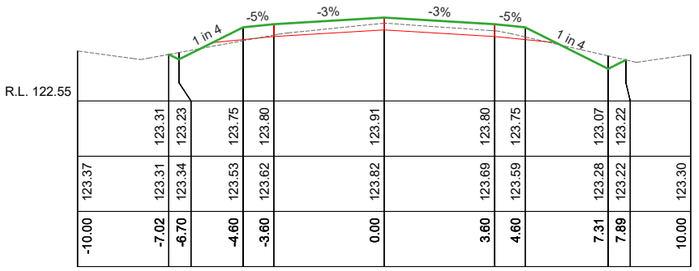
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 18 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



Ch 540.00



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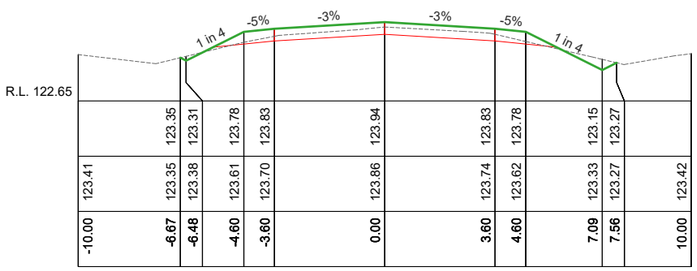
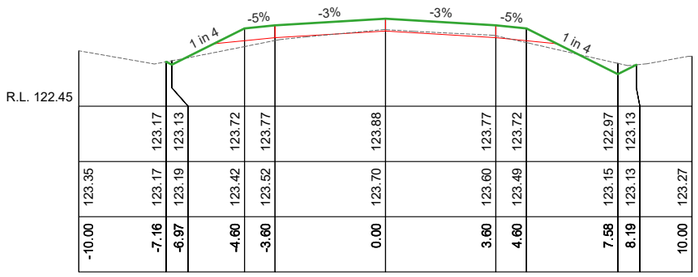
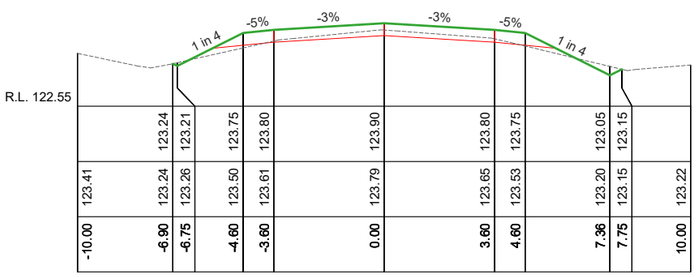


Ch 700.00



Ch 520.00



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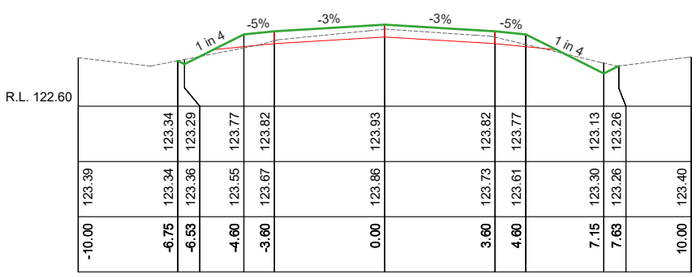

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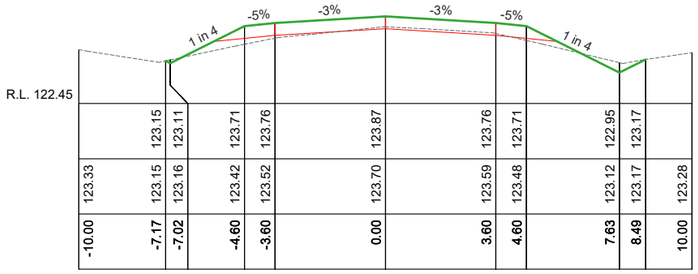

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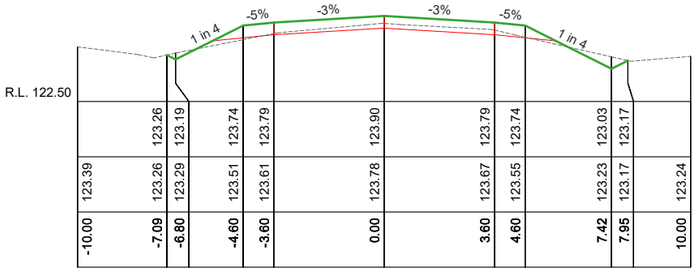

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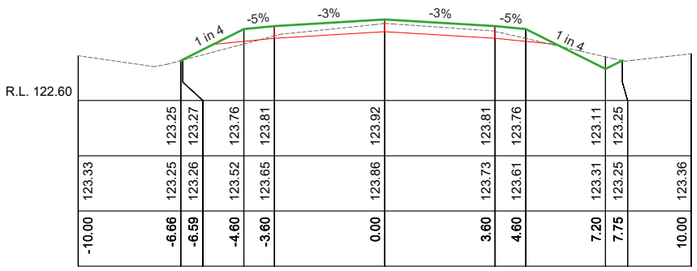

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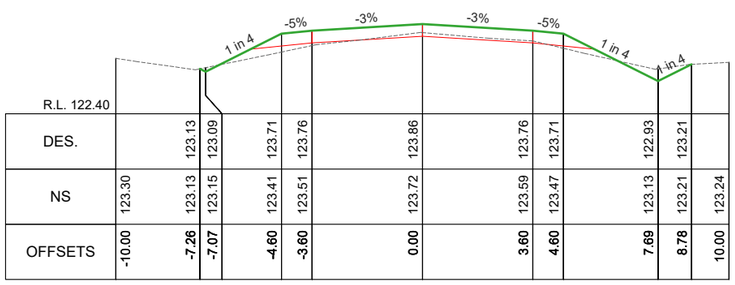

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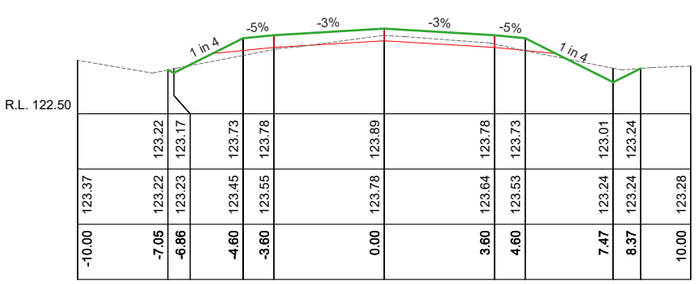

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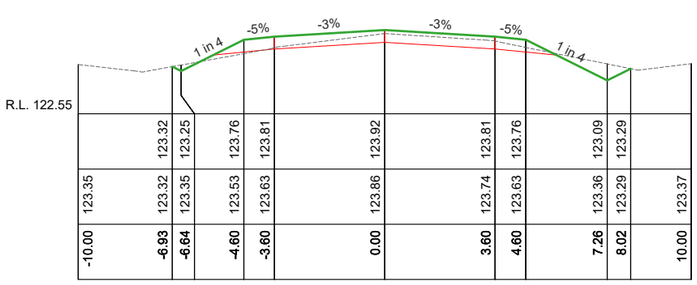


Ch 640.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

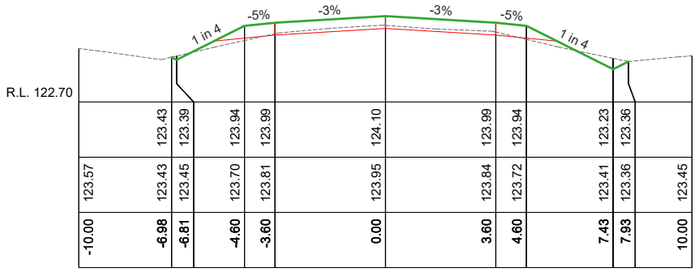
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

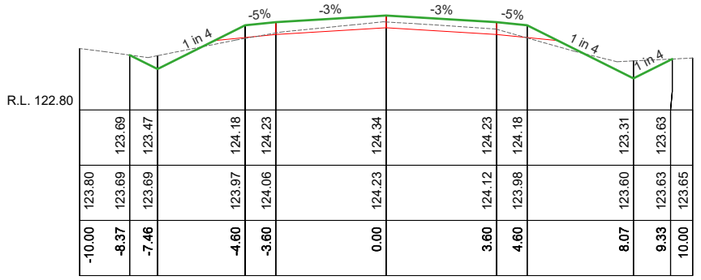
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 19 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

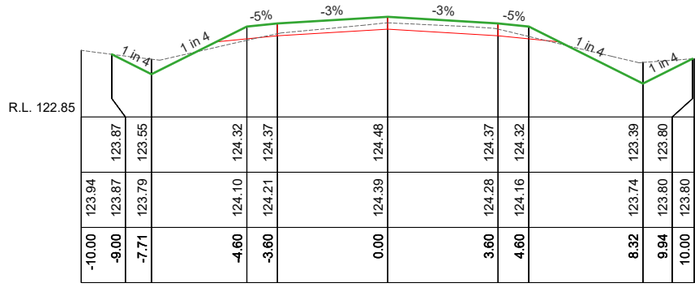
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



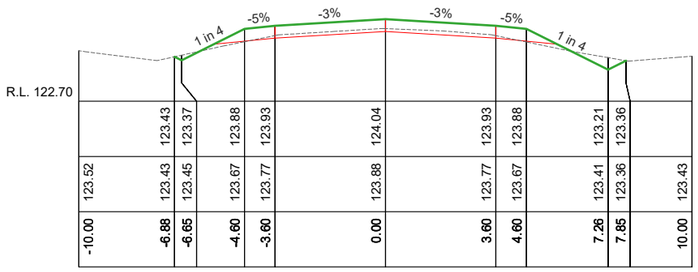
Ch 780.00



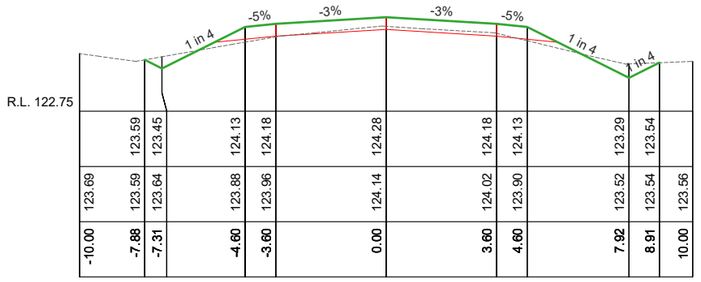
Ch 860.00



Ch 940.00



Ch 760.00



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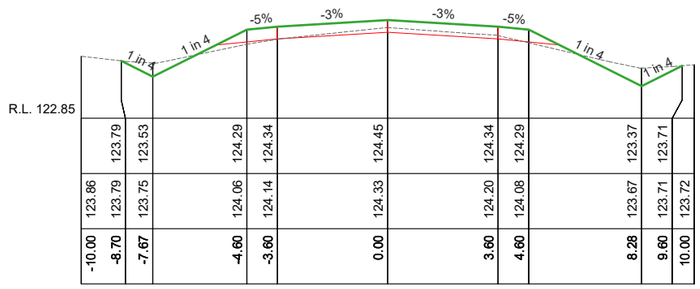

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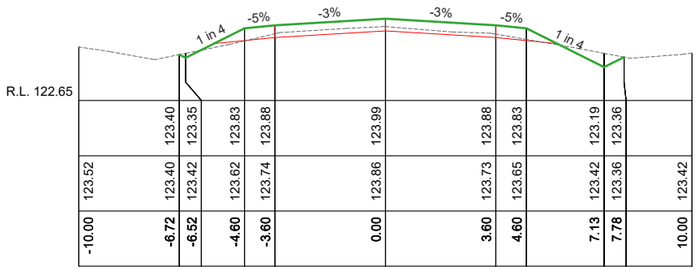
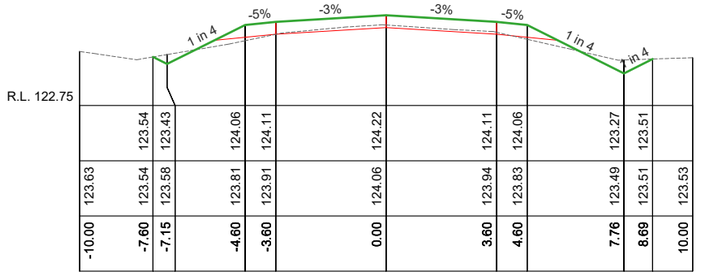
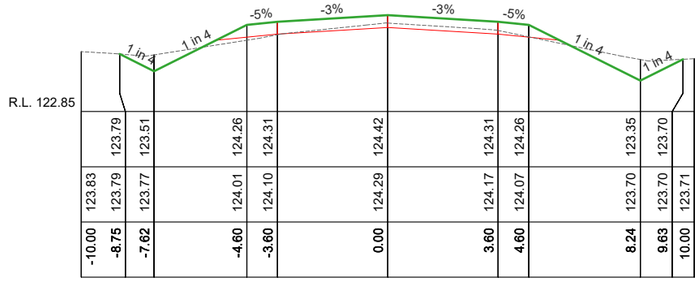


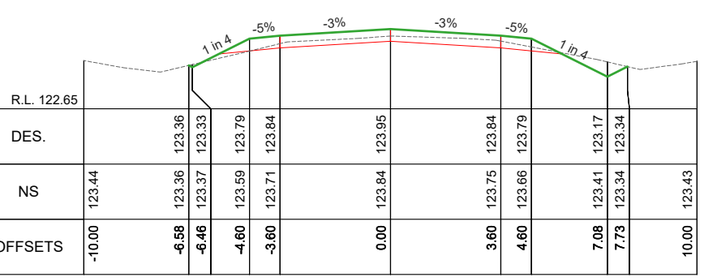
Ch 740.00



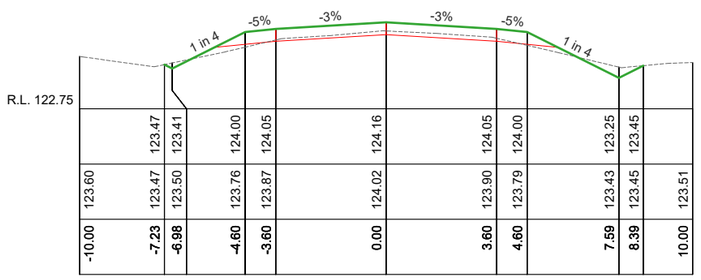
Ch 820.00



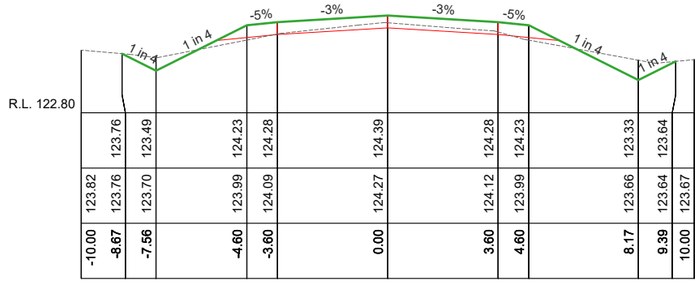
Ch 900.00



Ch 720.00



Ch 800.00



Ch 880.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

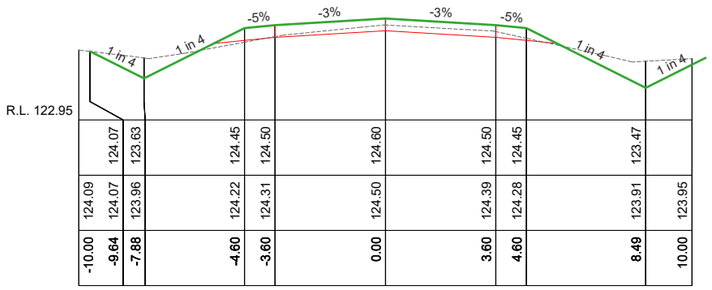
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

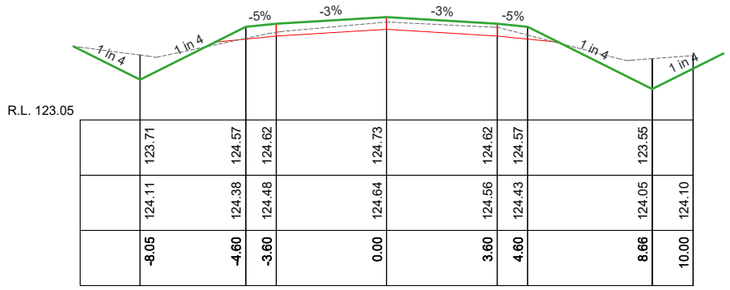
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 20 OF 29	Reference: GB4861	

PRELIMINARY DESIGN
DRAFT 3

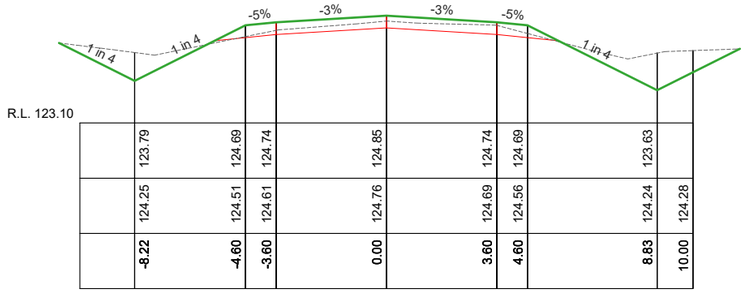
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



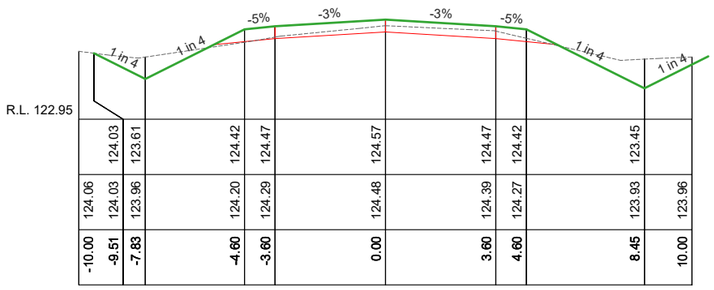
Ch 1020.00



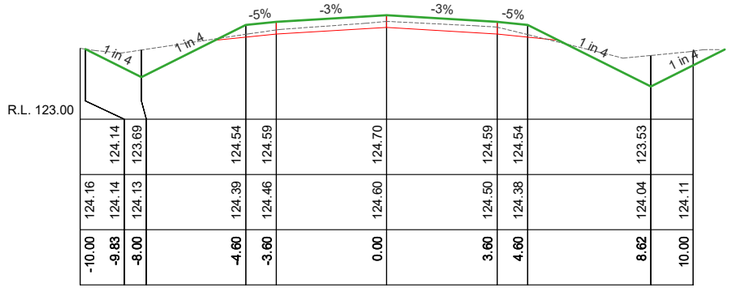
Ch 1100.00



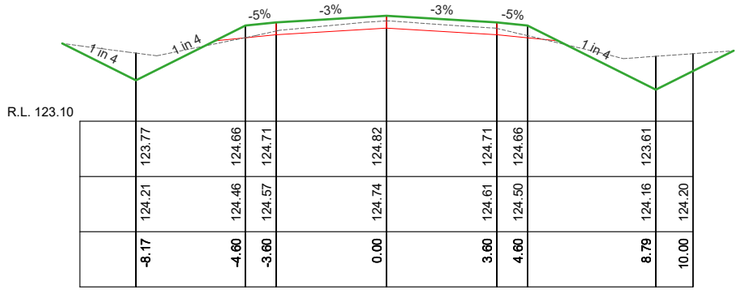
Ch 1180.00



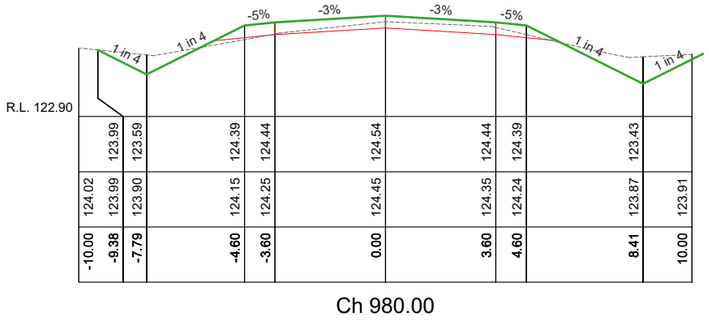
Ch 1000.00



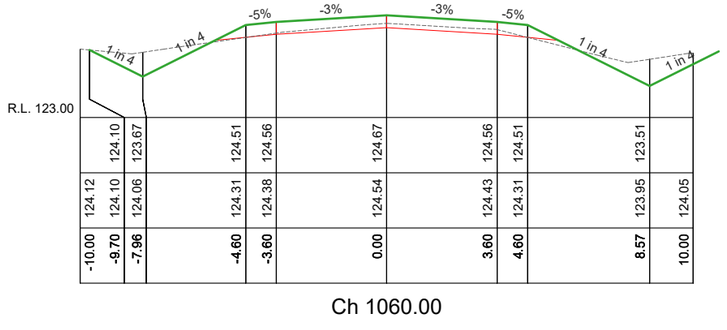
Ch 1080.00



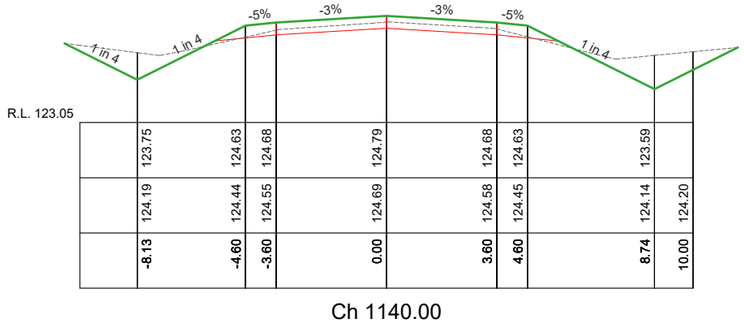
Ch 1160.00



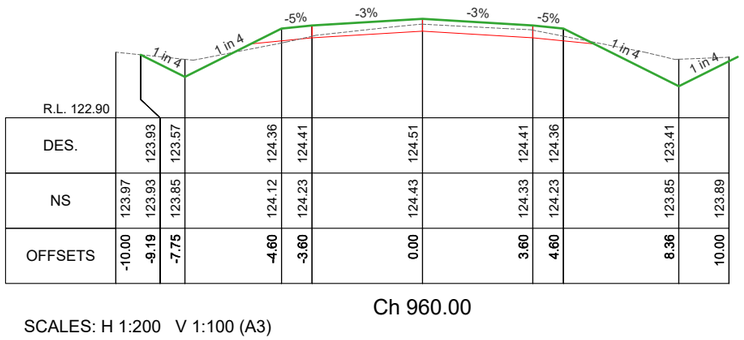
Ch 980.00



Ch 1060.00

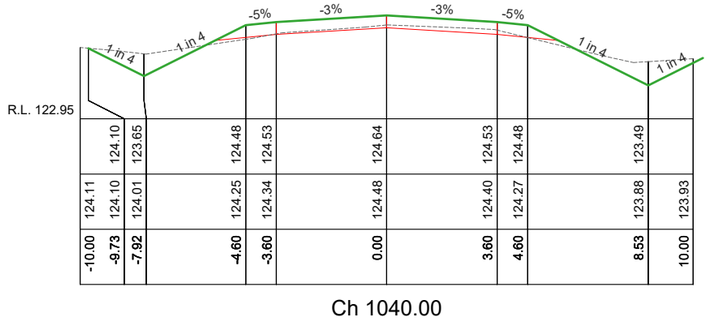


Ch 1140.00

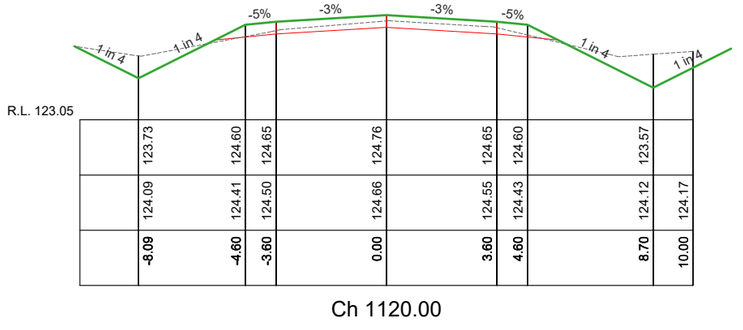


DES.		123.93	123.57	124.36	124.41	124.51	124.41	124.36	123.41	
NS	123.97	123.93	123.85	124.12	124.23	124.43	124.33	124.23	123.85	123.89
OFFSETS	-10.00	-9.19	-7.75	-4.60	-3.60	0.00	3.60	4.60	8.36	10.00

Ch 960.00



Ch 1040.00



Ch 1120.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

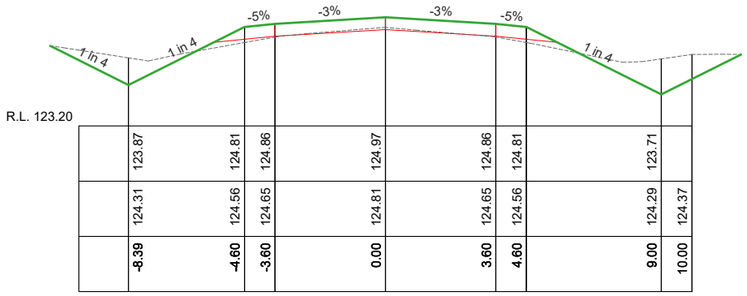
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 21 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

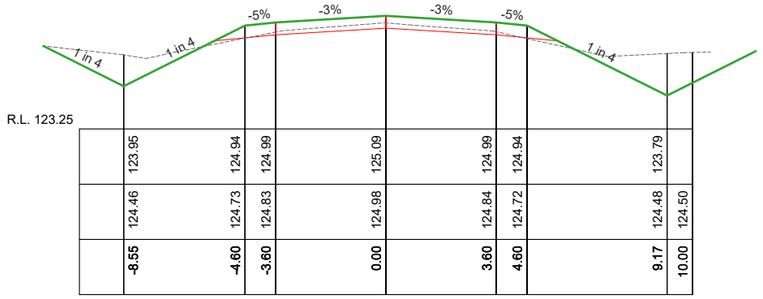
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



R.L. 123.20

	123.87	124.81	124.86	124.97	124.86	124.81	123.71	
	124.31	124.56	124.65	124.81	124.65	124.56	124.29	124.37
	-8.39	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**9.00**	**10.00**

Ch 1260.00



R.L. 123.25

	123.95	124.94	124.99	125.09	124.99	124.94	123.79	
	124.46	124.73	124.83	124.98	124.84	124.72	124.48	124.50
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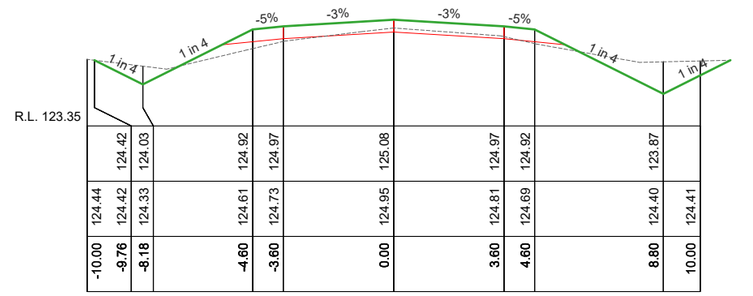
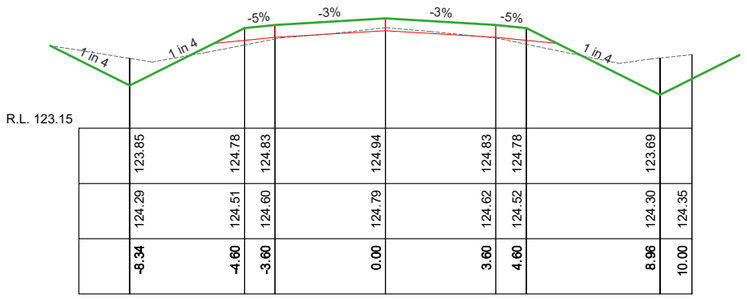
Ch 1340.00



R.L. 123.35

		124.42	124.03	124.92	124.97	125.08	124.97	124.92	123.87	
124.44	124.42	124.33	124.61	124.73	124.95	124.81	124.69	124.40	124.41
-10.00	**-9.76**	**-8.18**	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**8.80**	**10.00**

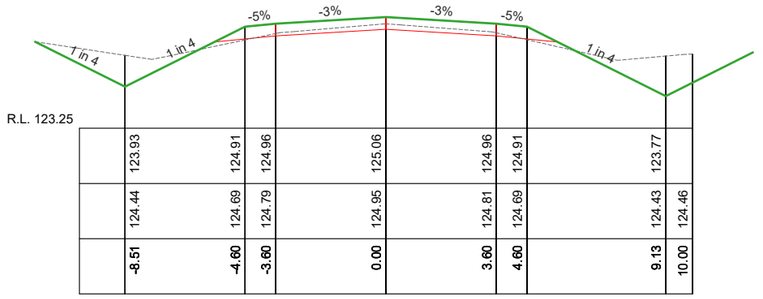
Ch 1420.00



R.L. 123.15

	123.85	124.78	124.83	124.94	124.83	124.78	123.69	
	124.29	124.51	124.60	124.79	124.62	124.52	124.30	124.35
	-8.34	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**8.96**	**10.00**

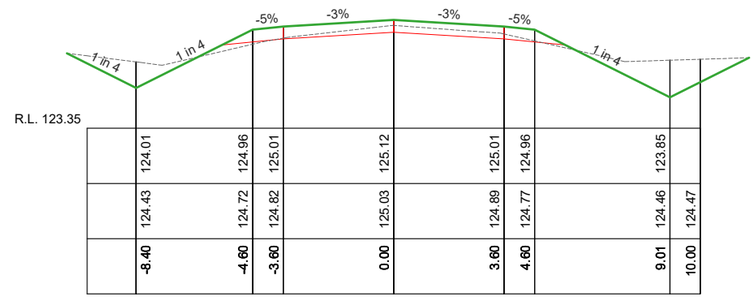
Ch 1240.00



R.L. 123.25

	123.93	124.91	124.96	125.06	124.96	124.91	123.77	
	124.44	124.69	124.79	124.95	124.81	124.69	124.43	124.46
	-8.51	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**9.13**	**10.00**

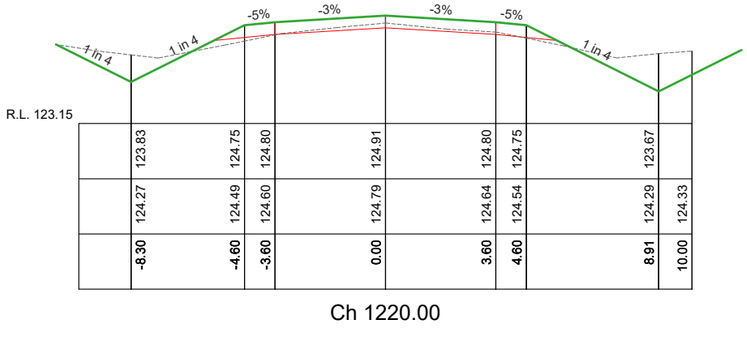
Ch 1320.00



R.L. 123.35

	124.01	124.96	125.01	125.12	125.01	124.96	123.85	
	124.43	124.72	124.82	125.03	124.89	124.77	124.46	124.47
	-8.40	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**9.01**	**10.00**

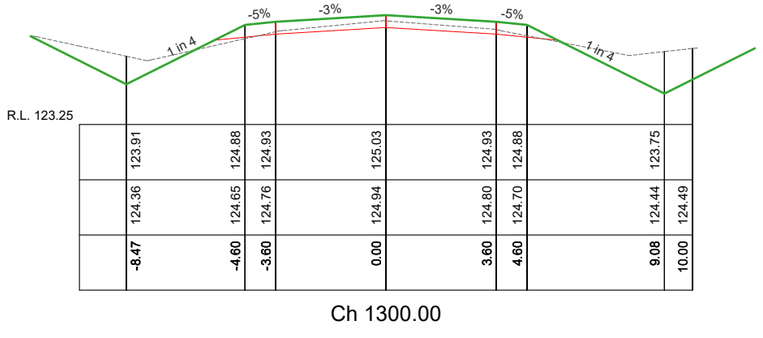
Ch 1400.00



R.L. 123.15

	123.83	124.75	124.80	124.91	124.80	124.75	123.67	
	124.27	124.49	124.60	124.79	124.64	124.54	124.29	124.33
	-8.30	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**8.91**	**10.00**

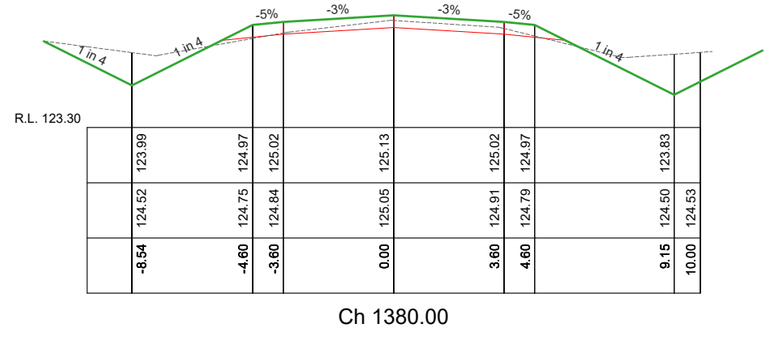
Ch 1220.00



R.L. 123.25

	123.91	124.88	124.93	125.03	124.93	124.88	123.75	
	124.36	124.65	124.76	124.94	124.80	124.70	124.44	124.49
	-8.47	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**9.08**	**10.00**

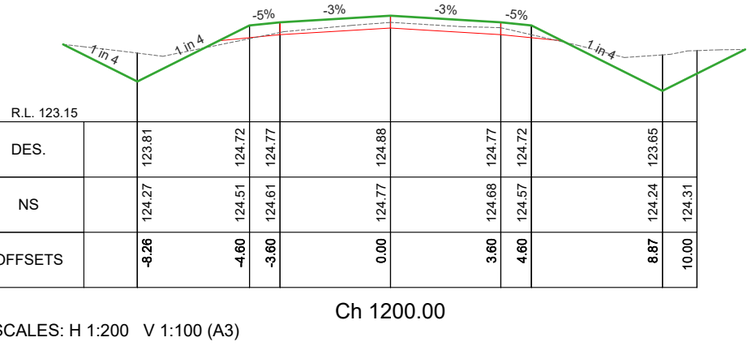
Ch 1300.00



R.L. 123.30

	123.99	124.97	125.02	125.13	125.02	124.97	123.83	
	124.52	124.75	124.84	125.05	124.91	124.79	124.50	124.53
	-8.54	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**9.15**	**10.00**

Ch 1380.00



R.L. 123.15

DES.	123.81	124.72	124.77	124.88	124.77	124.72	123.65	
NS	124.27	124.51	124.61	124.77	124.68	124.57	124.24	124.31
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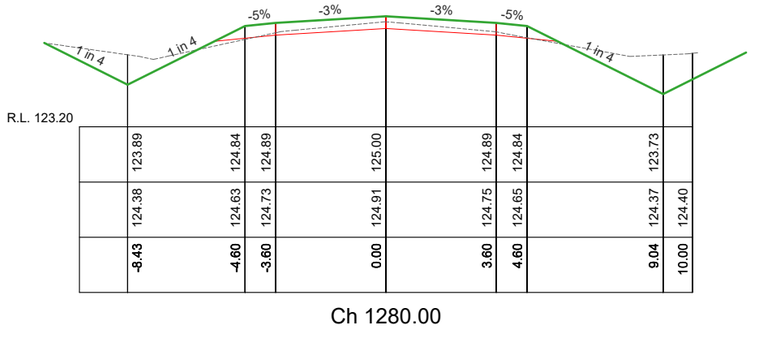
Ch 1200.00



R.L. 123.20

	123.89	124.84	124.89	125.00	124.89	124.84	123.73	
	124.38	124.63	124.73	124.91	124.75	124.65	124.37	124.40
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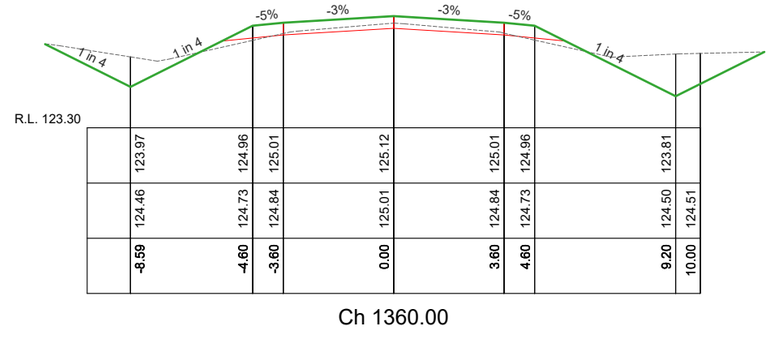
Ch 1280.00



R.L. 123.30

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	124.46	124.73	124.84	125.01	124.84	124.73	124.50	124.51
	-8.59	**-4.60**	**-3.60**	**0.00**	**3.60**	**4.60**	**9.20**	**10.00**

Ch 1360.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

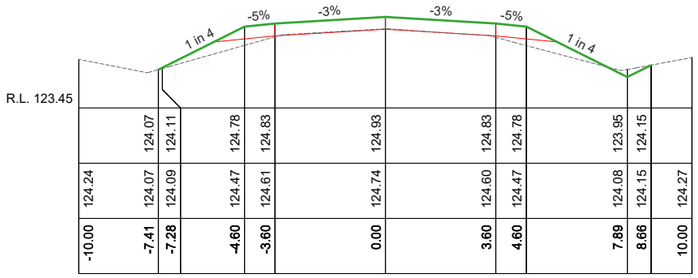
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

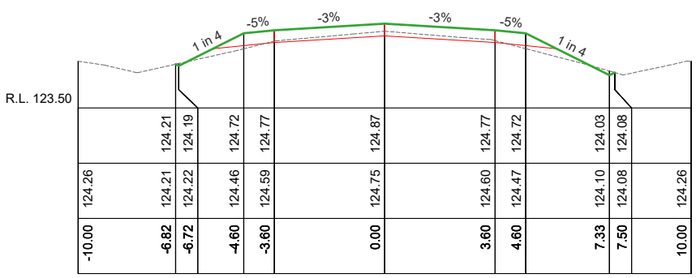
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 22 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

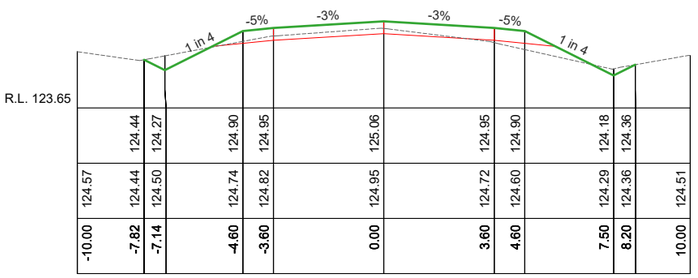
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



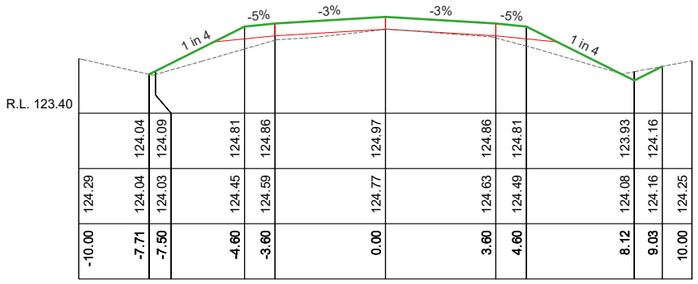
Ch 1500.00



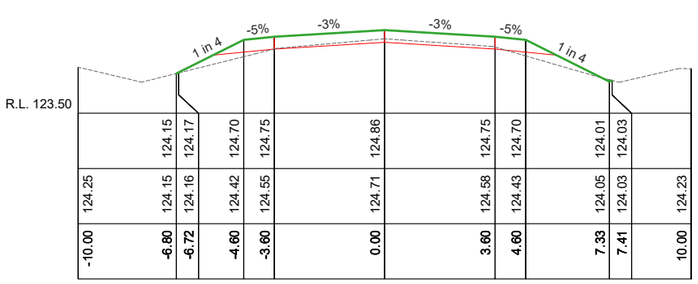
Ch 1580.00



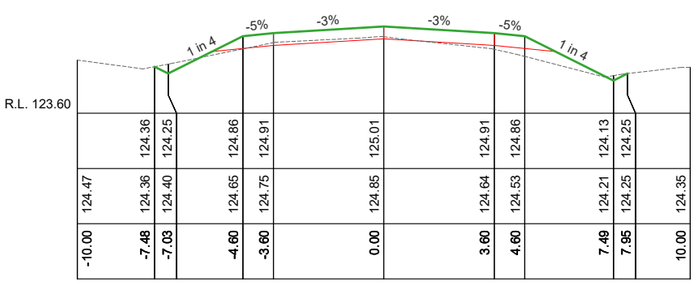
Ch 1660.00



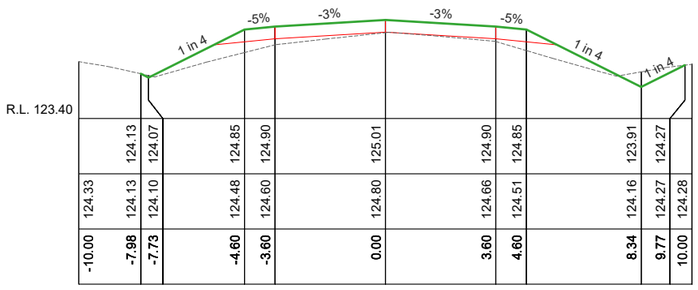
Ch 1480.00



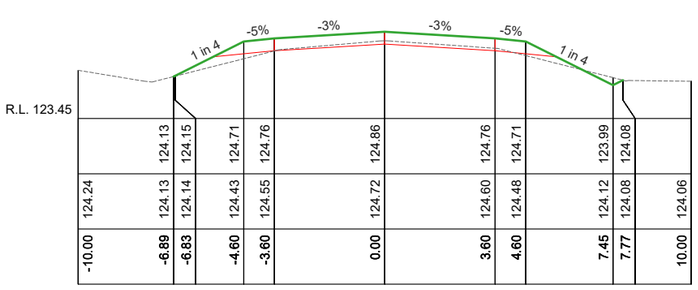
Ch 1560.00



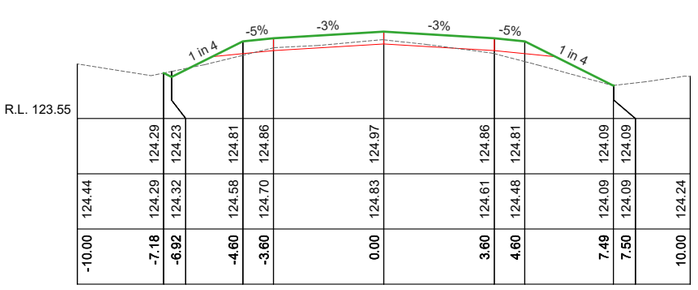
Ch 1640.00



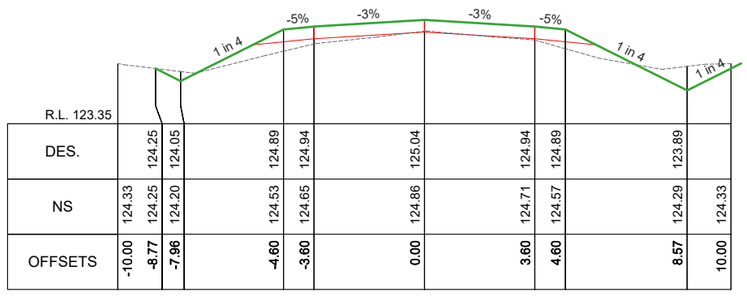
Ch 1460.00



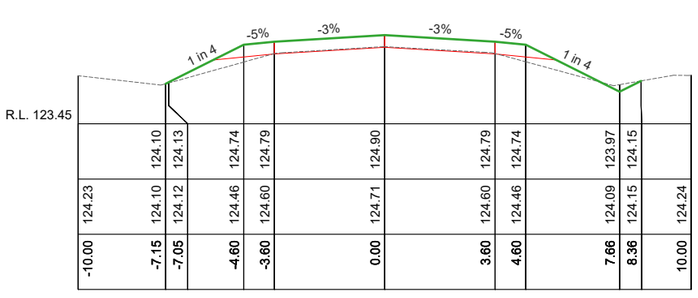
Ch 1540.00



Ch 1620.00



Ch 1440.00



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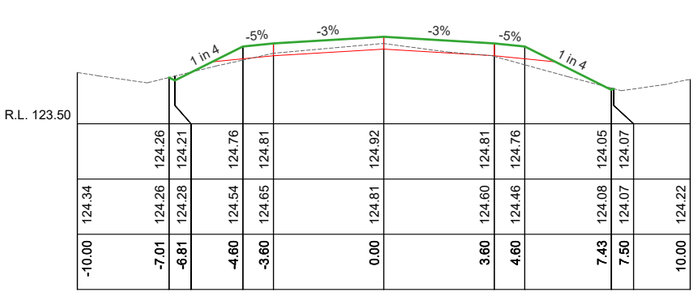


Ch 1600.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

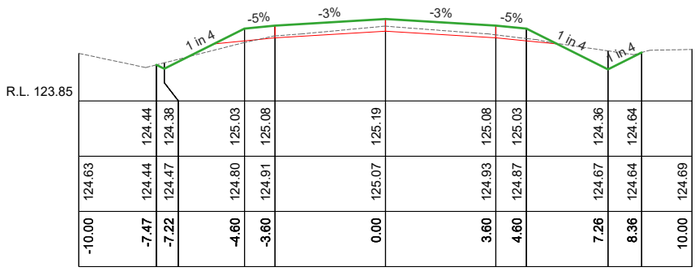
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

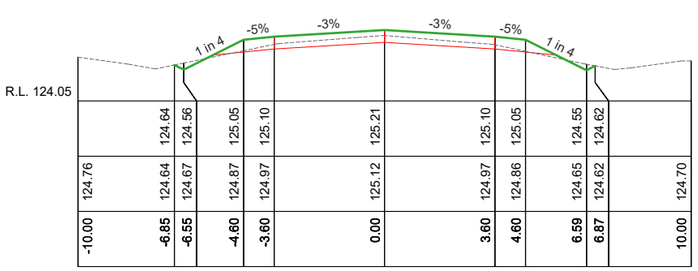
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 23 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



Ch 1740.00



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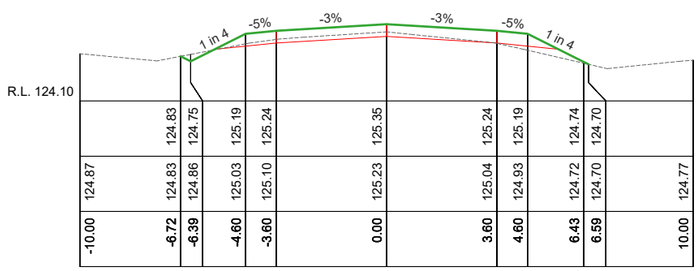

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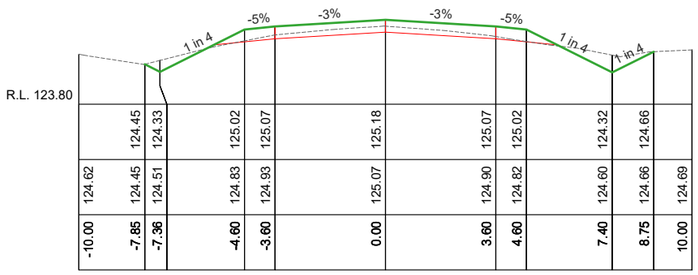

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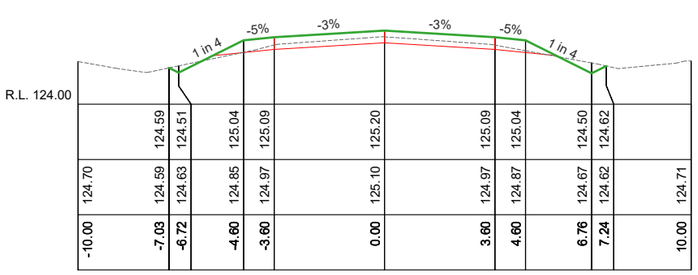

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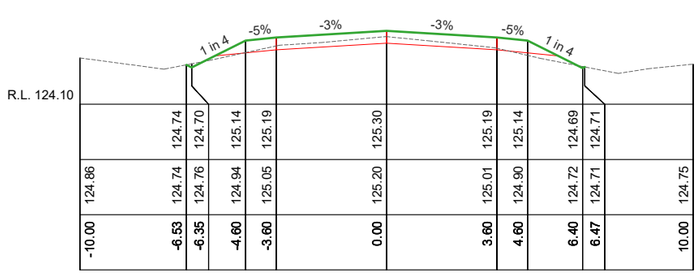

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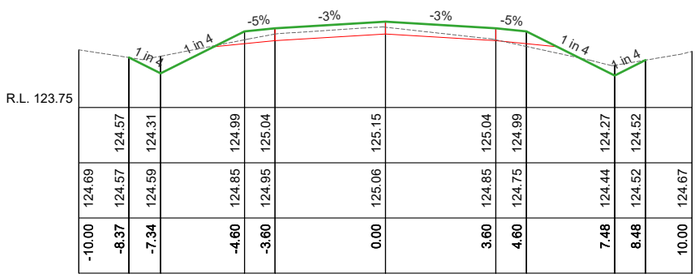
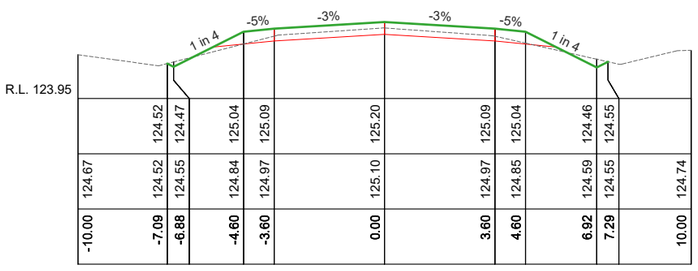
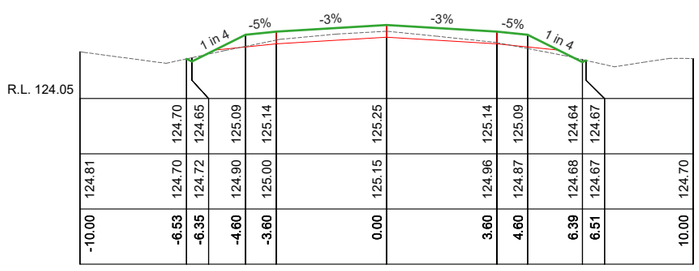


Ch 1700.00



Ch 1780.00



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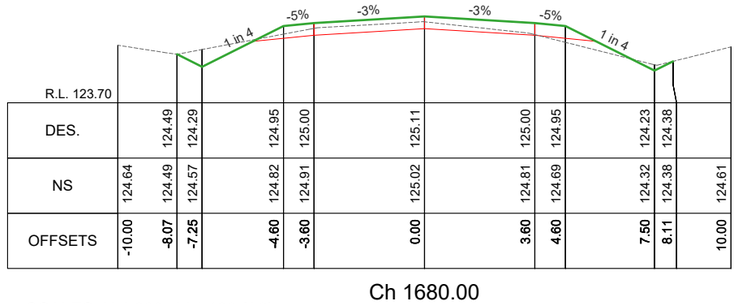

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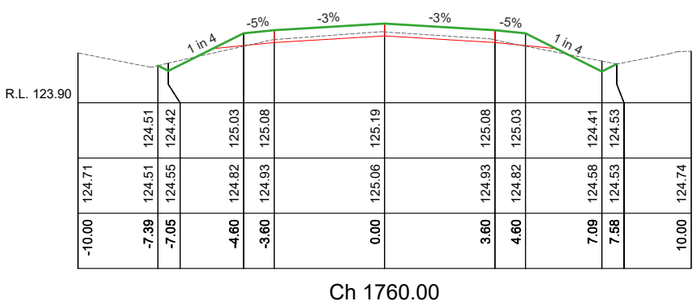
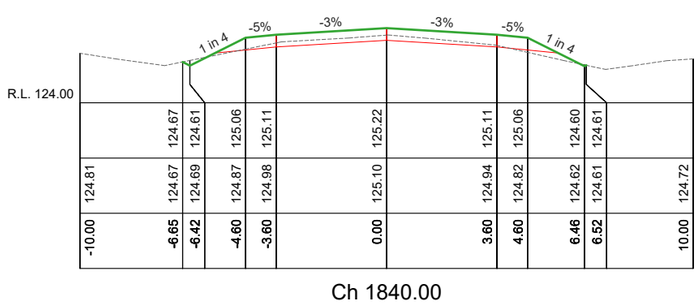


Ch 1760.00



Ch 1840.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

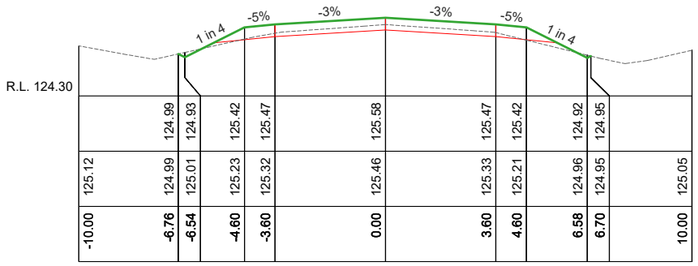
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 24 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



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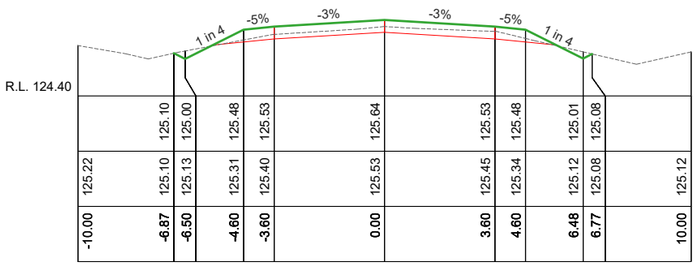

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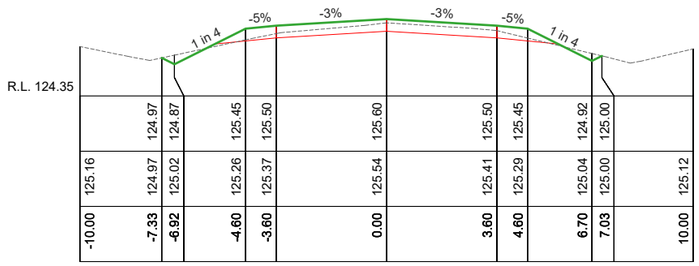

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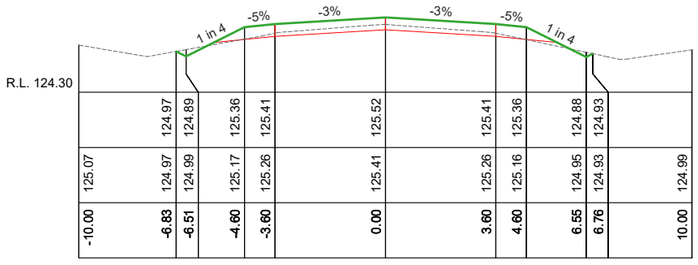

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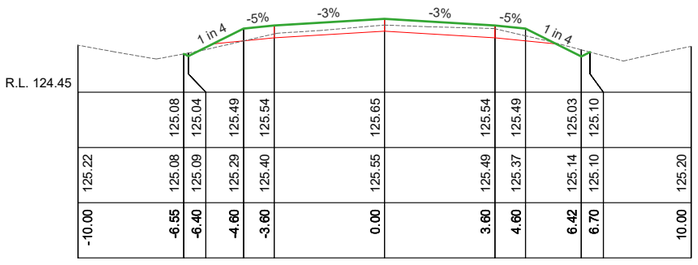

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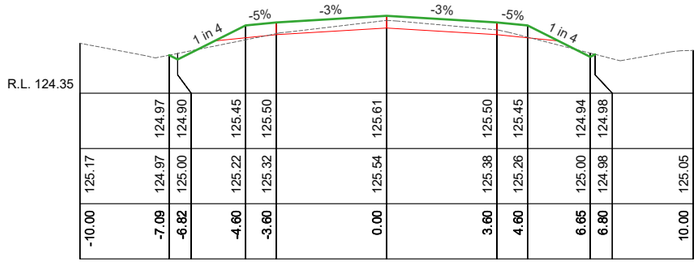

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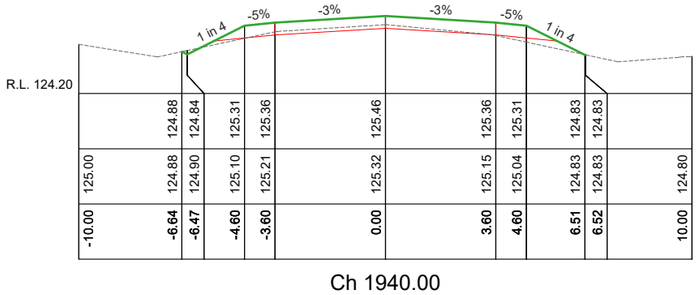

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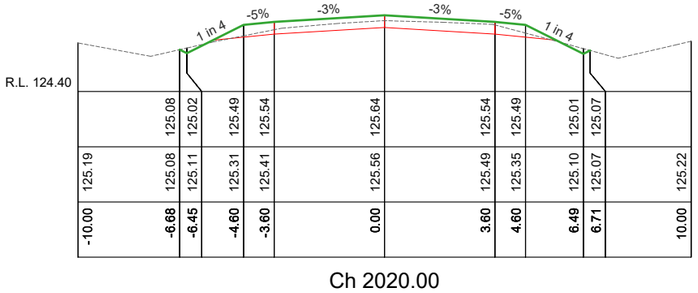

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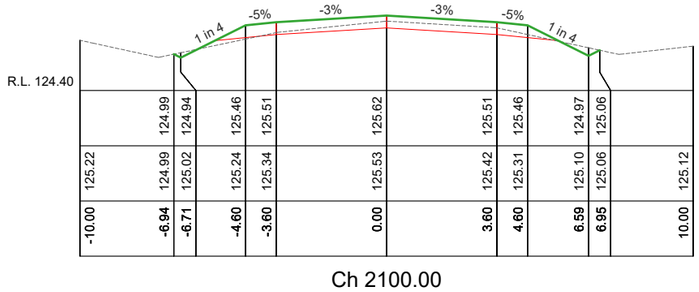

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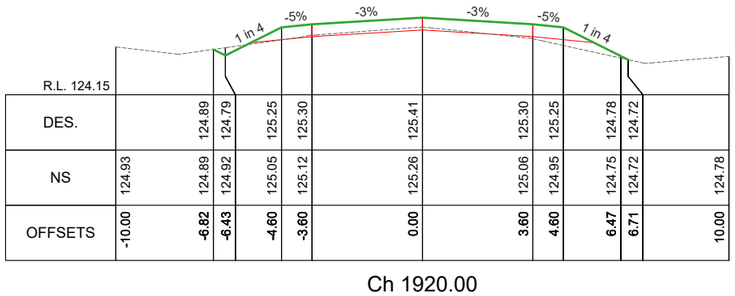

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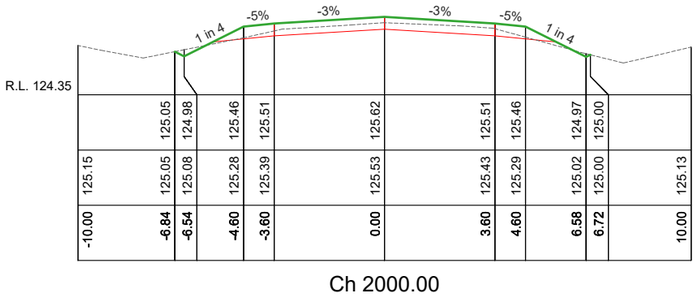

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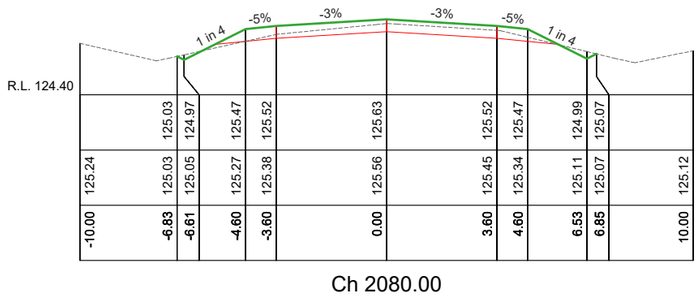


Ch 2080.00

SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

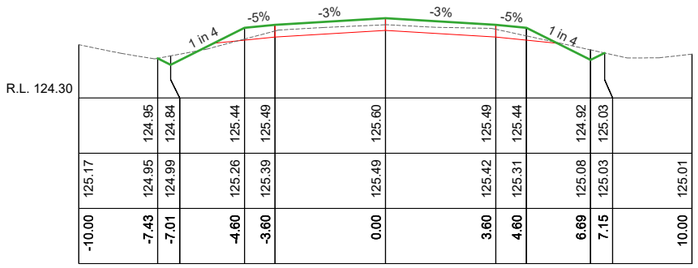
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

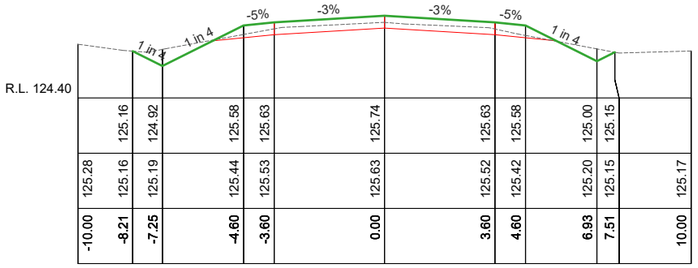
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 25 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

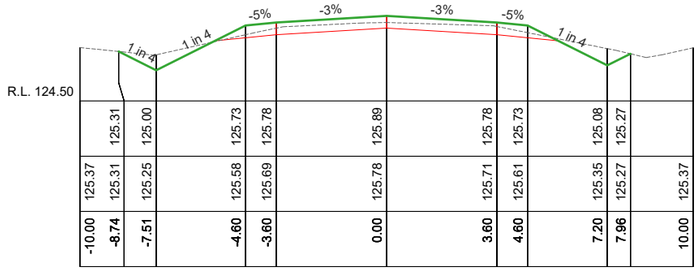
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



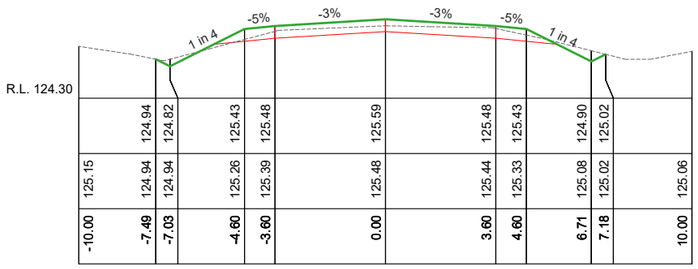
Ch 2220.00



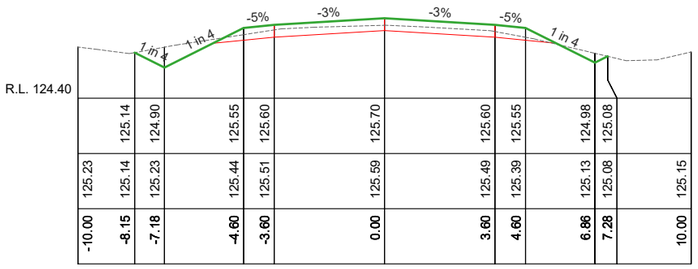
Ch 2300.00



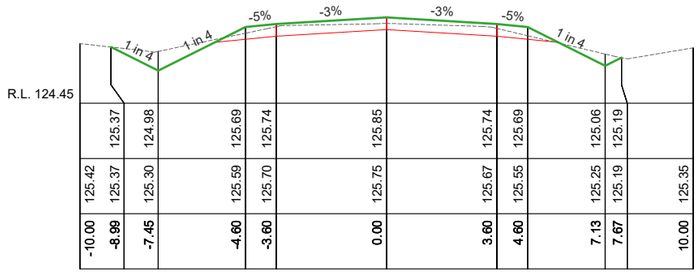
Ch 2380.00



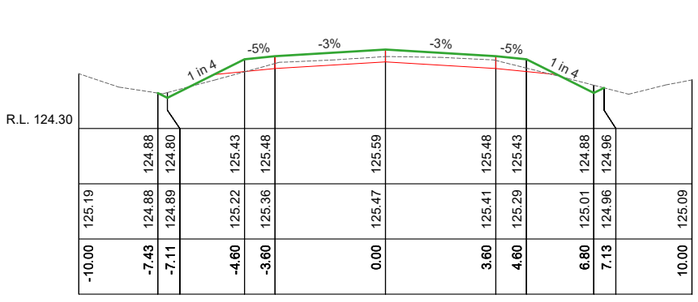
Ch 2200.00



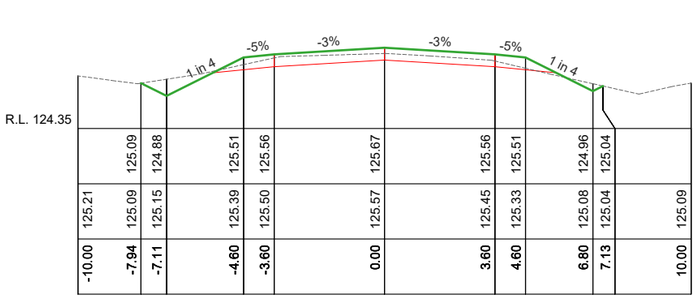
Ch 2280.00



Ch 2360.00



Ch 2180.00



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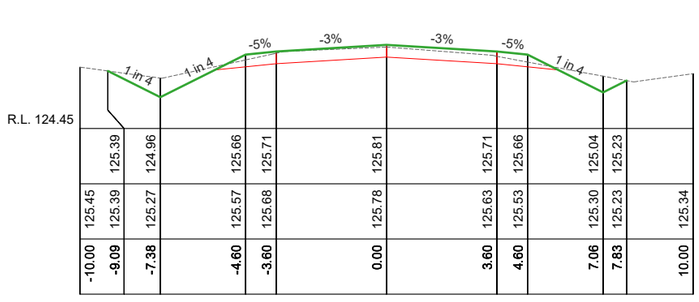
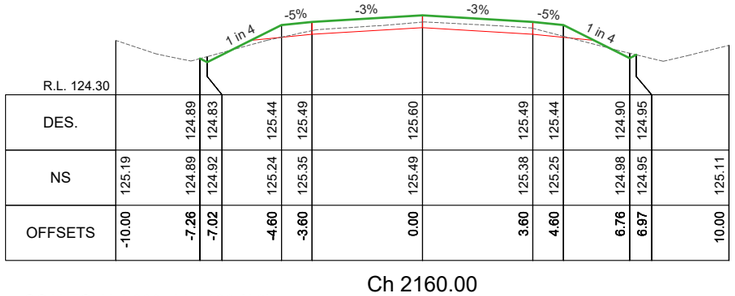
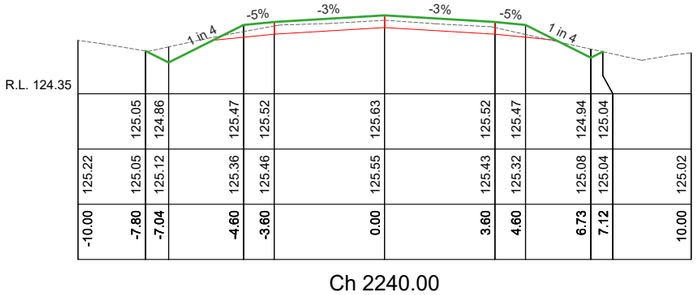


Ch 2340.00

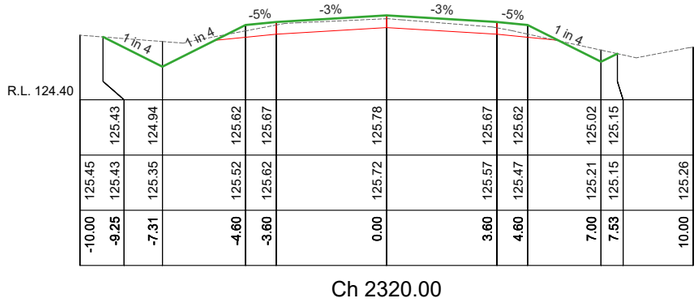


Ch 2160.00

SCALES: H 1:200 V 1:100 (A3)



Ch 2240.00



Ch 2320.00

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

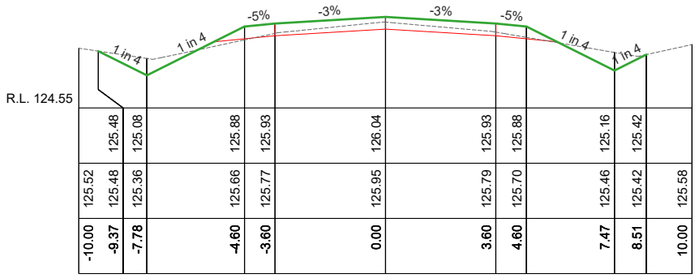
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

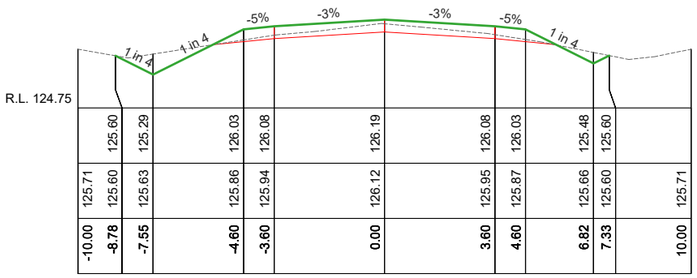
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 26 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

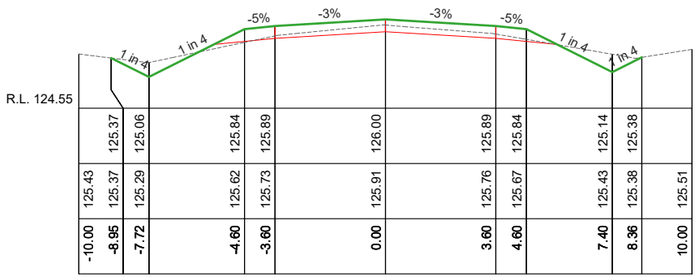
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



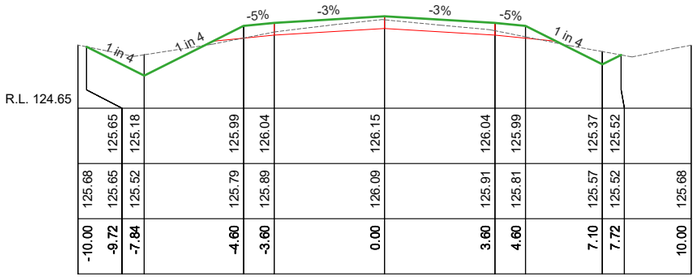
Ch 2460.00



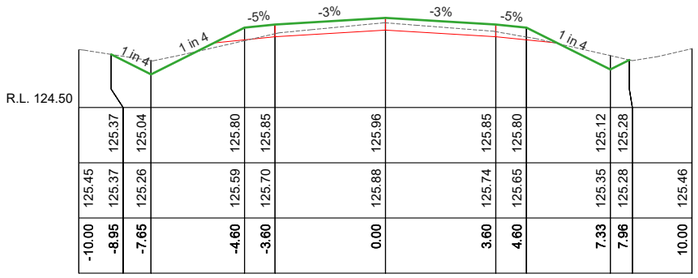
Ch 2540.00



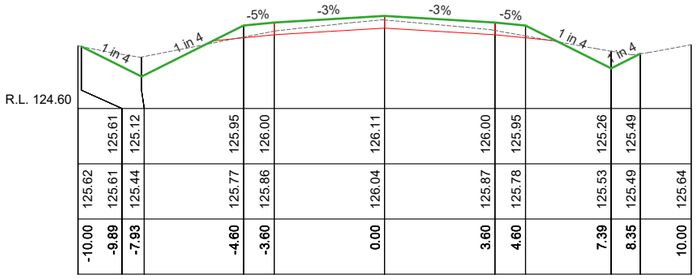
Ch 2440.00



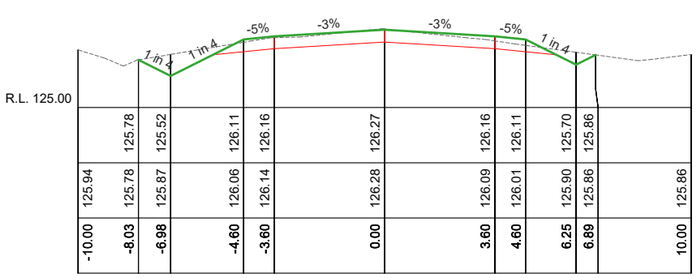
Ch 2520.00



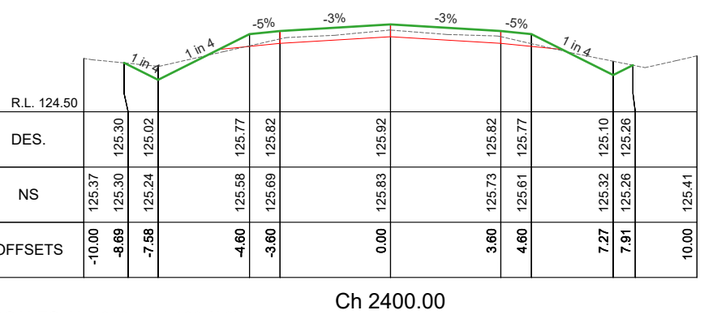
Ch 2420.00



Ch 2500.00

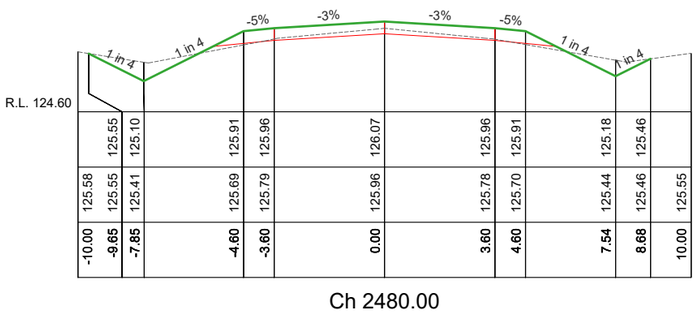


Ch 2580.00

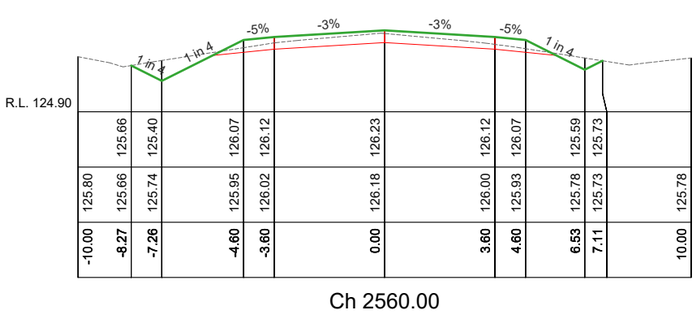


Ch 2400.00

SCALES: H 1:200 V 1:100 (A3)



Ch 2480.00



Ch 2560.00

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

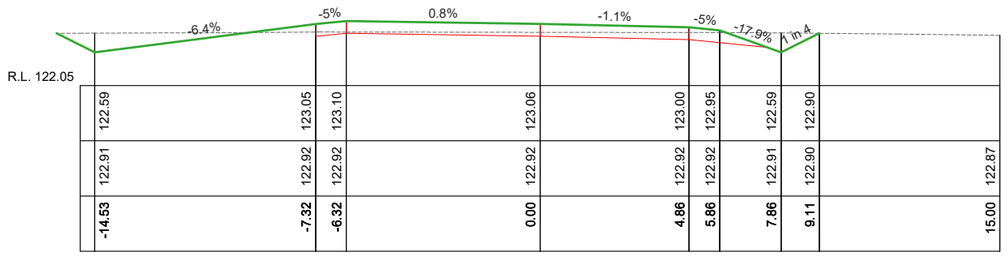
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

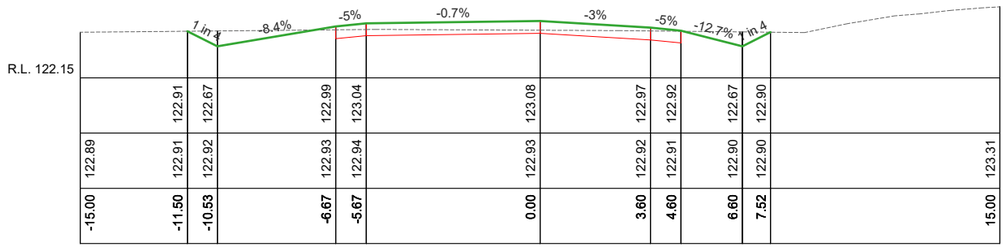
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 27 OF 29	Reference: GB4861	

PRELIMINARY DESIGN
DRAFT 3

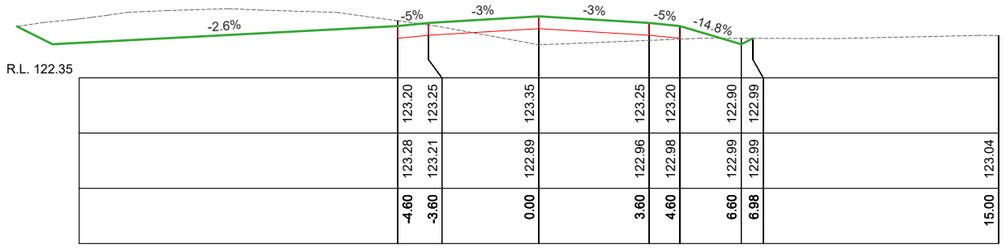
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



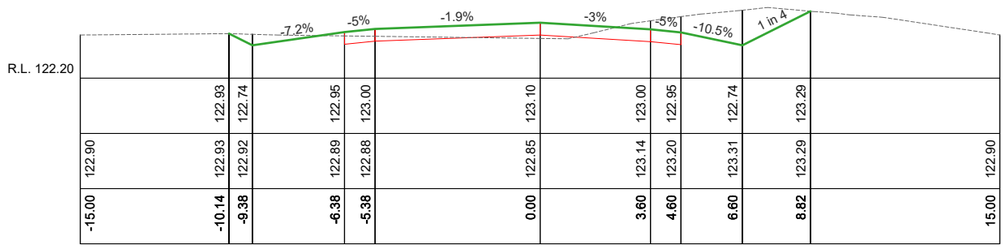
Ch 80.00



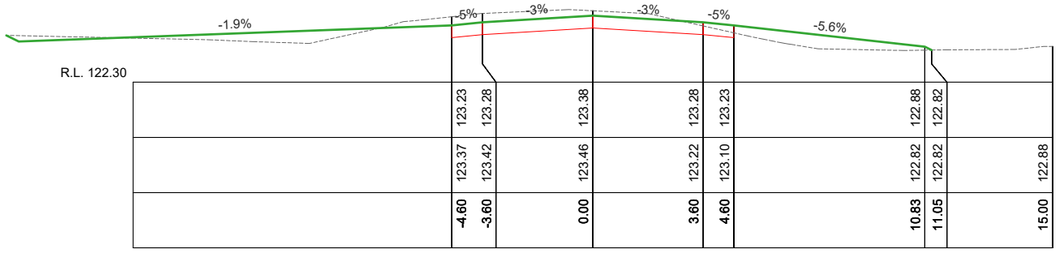
Ch 70.00



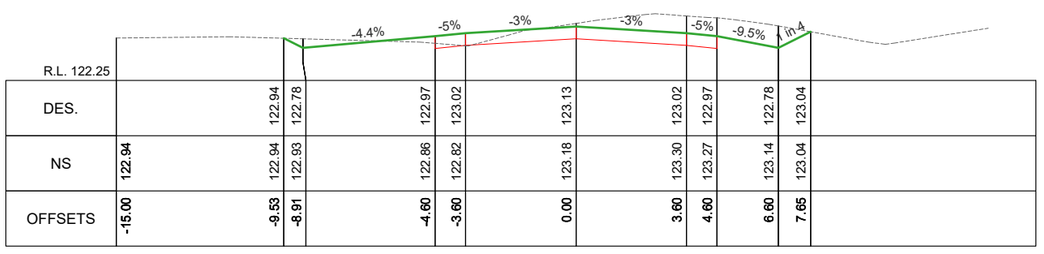
Ch 80.00



Ch 60.00

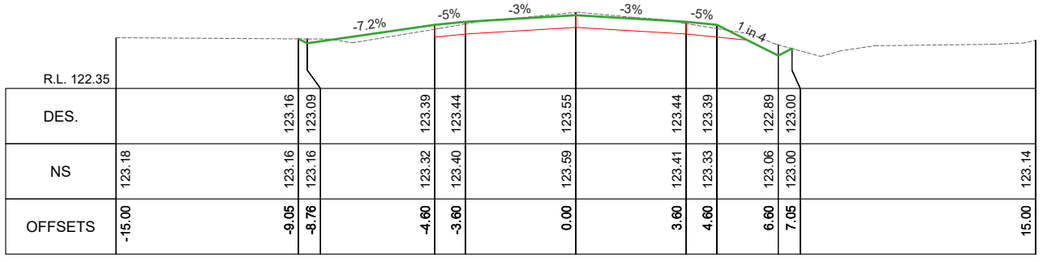


Ch 60.00



DRUMMARTIN ROAD WEST CROSS SECTIONS
SCALES: H 1:200 V 1:100 (A3)

Ch 50.00



KEANE ROAD CROSS SECTIONS
SCALES: H 1:200 V 1:100 (A3)

Ch 30.00

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

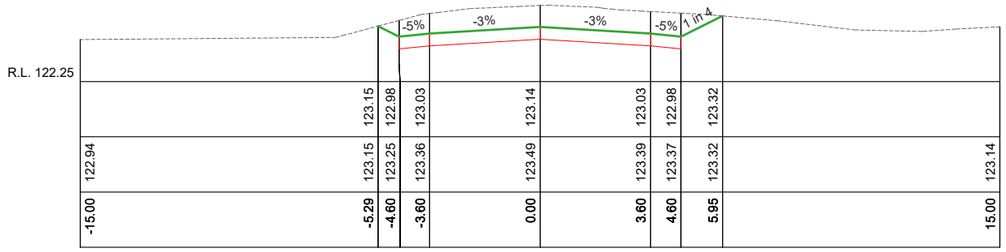
ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

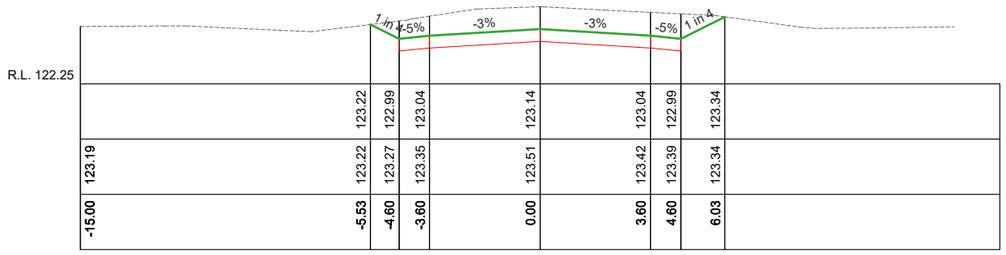
Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 28 OF 29	Reference: GB4861	

PRELIMINARY DESIGN DRAFT 3

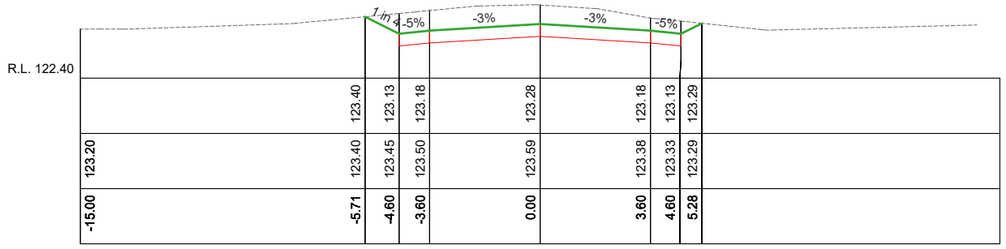
Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN



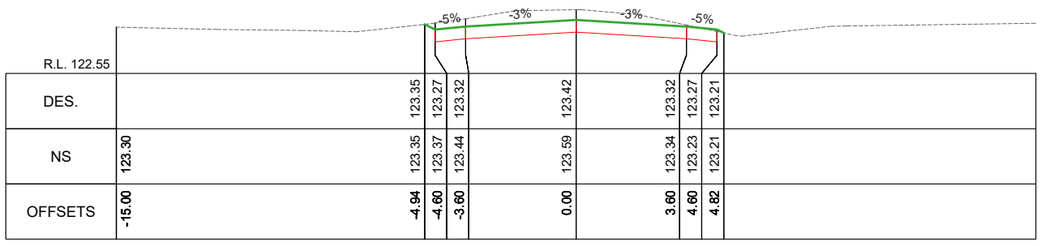
Ch 100.00



Ch 80.00



Ch 60.00



Ch 40.00

DRUMMARTIN ROAD EAST CROSS SECTIONS
SCALES: H 1:200 V 1:100 (A3)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

ELMORE-MITIAMO ROAD
HUNTER
ROAD RECONSTRUCTION

ROAD CROSS SECTIONS

Survey	H. WHYTOCK	23/11/22
Design	B. JANSSEN	24/01/23
Checked	A. SMITH	-/-/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4861.dwg	
Sheet: 29 OF 29	Reference: GB4861	

PRELIMINARY DESIGN
DRAFT 3

Plot Date: 24/01/2023
Plotted By: BAYLEY JANSSEN