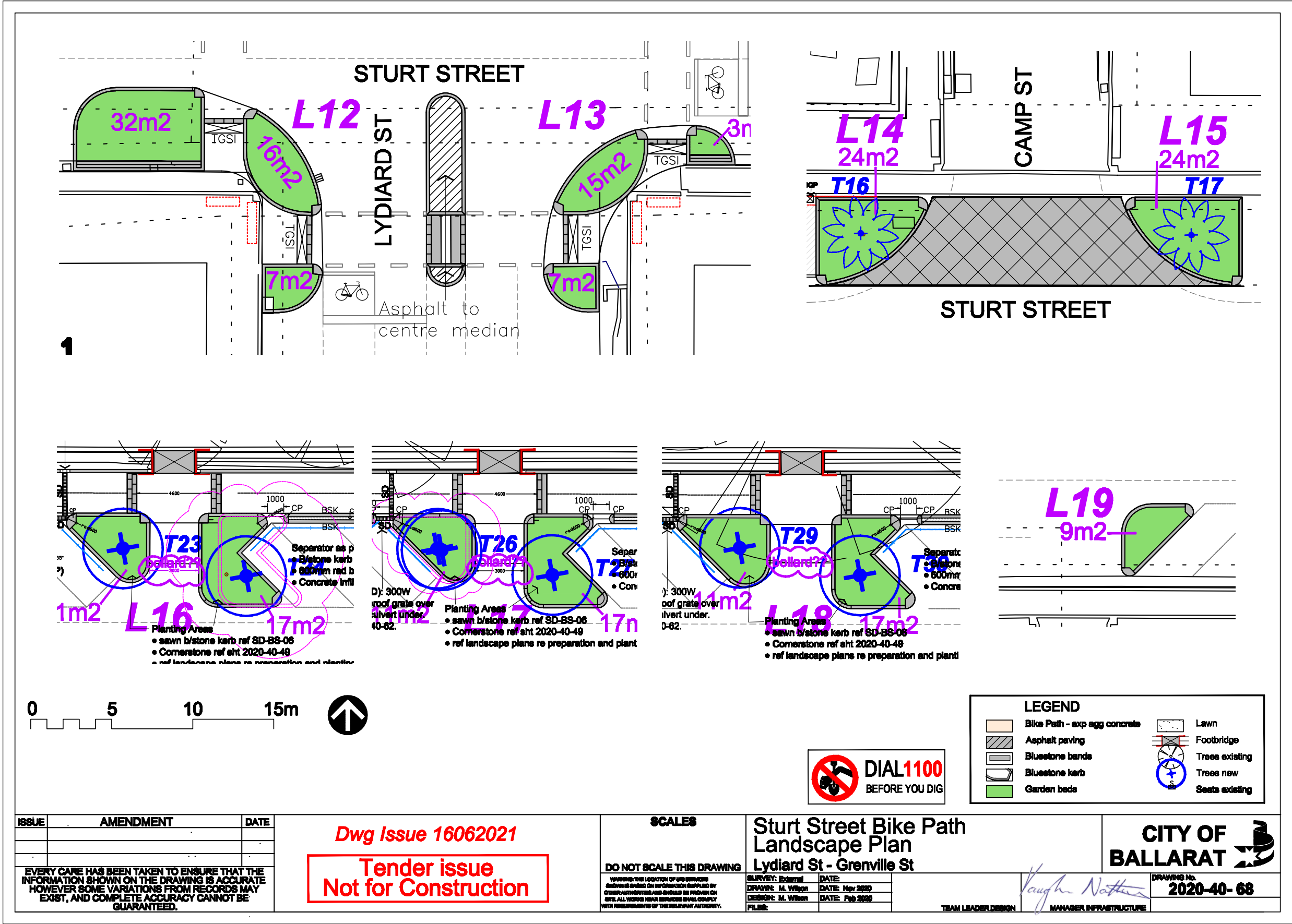
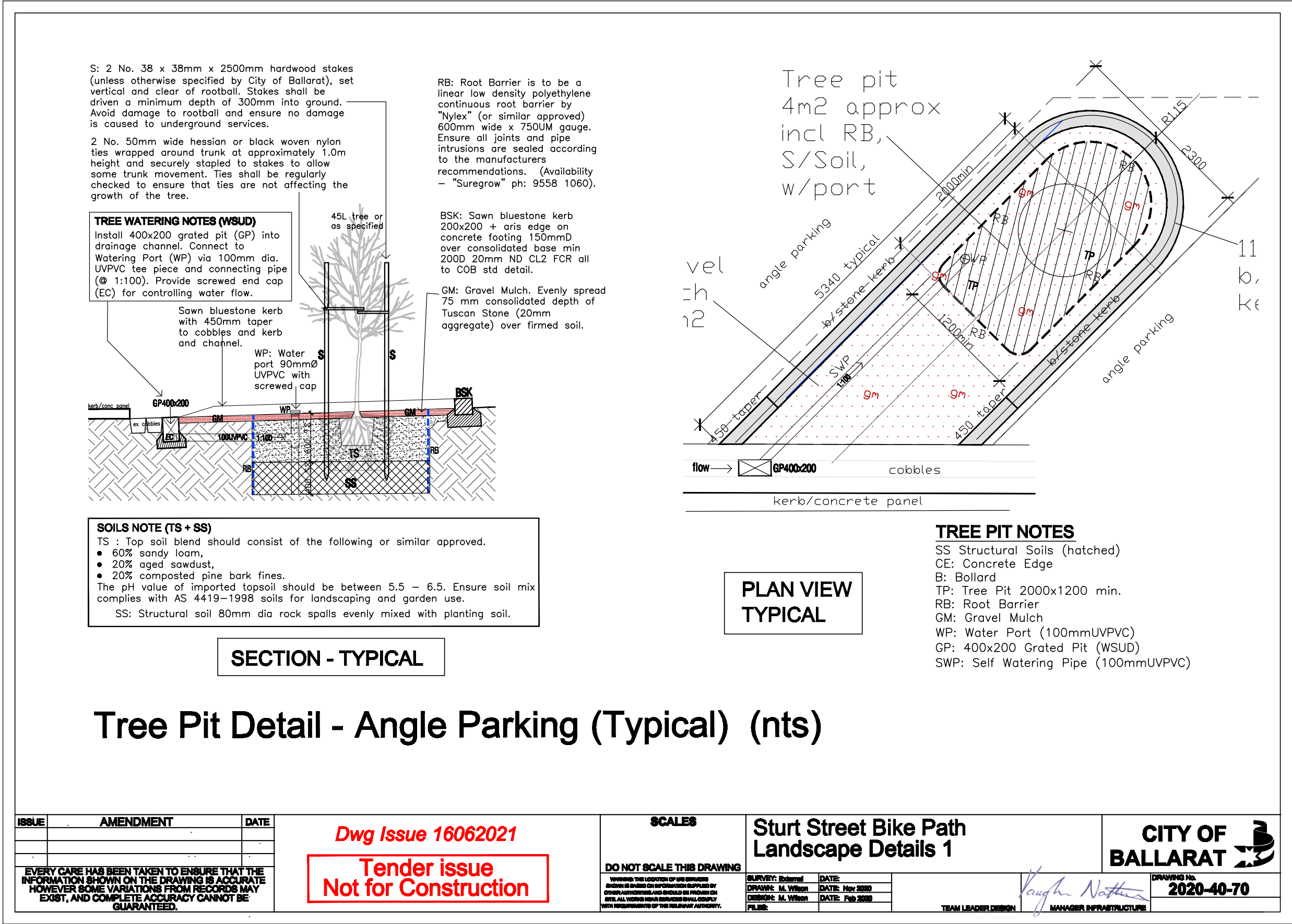




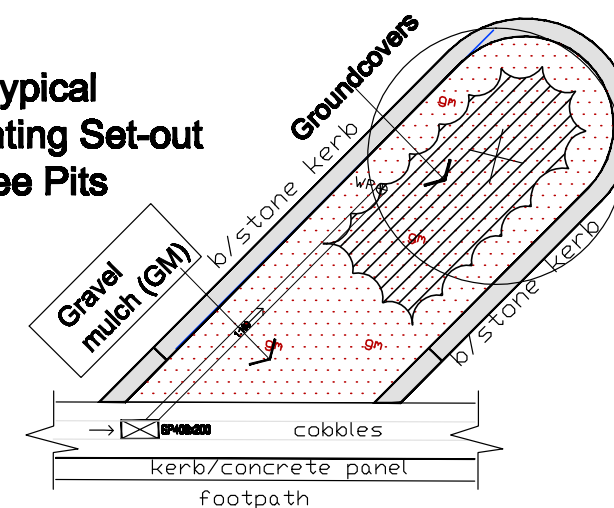
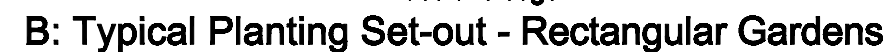


DRAWING No.
2020-40- 69



Tree Pit Detail - Angle Parking (Typical) (nts)

ISSUE		AMENDMENT	DATE	Dwg Issue 16062021 Tender issue Not for Construction	SCALES	Sturt Street Bike Path Landscape Details 1				CITY OF BALLARAT	
EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THE DRAWING IS ACCURATE HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.					DO NOT SCALE THIS DRAWING	SURVEY: External DRAWN: M. Wilson DESIGNED: M. Wilson FILED:		DATE: DATE: Nov 2020 DATE: Feb 2020	DRAWING No. 2020-40-70		
					TEAM LEADER DESIGN		MANAGER INFRASTRUCTURE				



- Planting areas to be excavated to 400mm below top of kerb. Subgrade to be ripped as required to provide free draining base before installation of 300mm of consolidated topsoil.
- Topsoil to comply with AS 4419-1998 Soils for Landscaping and Garden Use (pH between 5.5-6.5). Refer Landscape Notes. Sample to be provided and approved by Council before installation.
- Planting species, density, supply size and layout to be as per Planting Schedule. Plant in staggered lines, not in rows.
- Plants to be watered in and fertilised with 'Seasol' and 'Osmocote All Purpose' controlled release fertiliser immediately following planting.
- Mulch to be a fine pine bark mulch to a depth of 75mm to finish 25mm below top of kerb or selected gravel as specified.
- Sample set-out and planting to be provided and approved by Council before installation.

ISSUE	AMENDMENT	DATE

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THE DRAWING IS ACCURATE HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

Dwg Issue 16062021

**Tender issue
Not for Construction**

Sturt Street Bike Path Landscape Details 2

DO NOT SCALE THIS DRAWING

WARNING: THE LOCATION OF LIFE SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH REQUIREMENTS OF THE RELEVANT AUTHORITY

SURVEY: External	DATE:
DRAWN: M. Wilson	DATE: Nov 2020
DESIGN: M. Wilson	DATE: Feb 2020
REV:	

TEAM LEADER DESIGN

Vaughn Natter
MANAGER INFRASTRUCTURE

CITY OF BALLARAT 

DRAWING No.
2020-40-71

Plant Schedule 17062021

Sturt Street – Dawson Street to Grenville Street - Plant Quantities Schedule							
Type	Code	Botanical Name	Common Name	Preferred Supply Size	Total Quantity	Comment and Arrangement	Recommended Supplier
Trees	AF	Acer x freemanii 'Jeffersred'	Autumn Blaze® Maple	Semi Advanced 100 ltr	35	Prefer 1.8min – 2.5 m height T 1 to T13, T16 to T19, T22-T39	
	TF	Washingtonia robusta Mexican Fan Palm (or approved alternative)	Washingtonia robusta	Min 4 metre trunk clearance	4	To be supplied by COB with Contractor to plant T14, T15, T20, T21	Established Trees
Small Shrubs	CD	Correa 'Dusky Bells'	Correa	150mm pots	93	Informally arranged at 3 per m2	
	HS	Hebe sp (species not exceeding 600mm)	Hebe varieties	150mm pots	189	Informally arranged at 3 per m2	
	WF	Westringia fruticosa Mundi™ 'WES05'	Westringia	150mm pots	198	Informally arranged at 3 per m2	www.ozbreed.com.au
	RS	Rhaphiolepis 'Snow Maiden'	Indian Hawthorn	150mm pots	189	Informally arranged at 3 per m2	
Grasses/Bladed	LL	Lomandra labill. Evergreen Baby™ 'LM600'	Lomandra sp	Tubestock	240	Informally arranged at 4 per m2	www.ozbreed.com.au
	AP	Agapanthus Praecox -Dwarf Blue	Dwarf Agapanthus	Tubestock	264	Informally arranged at 4 per m2	
	DC	Dianella caerulea Little Jess™ 'DCMP01'	Dianella sp	Tubestock	52	Informally arranged at 4 per m2	www.ozbreed.com.au
	LS	Lomandra 'Shara'	Lomandra sp	Tubestock	400	Informally arranged at 4 per m2	www.ozbreed.com.au
Groundcovers	MP	Myoporum parvifolium Yareena™ 'PARV01	Creeping Boobialla	Tubestock	296	Informally arranged at 4 per m2	www.ozbreed.com.au
	GS	Gazania Sp (sterile variety) various colour	African Daisy	Tubestock	256	Informally arranged at 4 per m2	
	CR	Carpobrotus rossii	Native Pig Face	Tubestock	306	Informally arranged at 4 per m2	
	SS	Senecio serpens	Blue Chalksticks	Tubestock	370	Informally arranged at 4 per m2	
Notes: - Substitute species or supply sizes to be approved by Contract Manager prior to ordering. - Samples of all trees and plants to be photographed or provided to Contract Manager for approval prior to ordering. - This 'Quantities Schedule' is to be read in conjunction with the 'Garden Bed Plant Locations Schedule' and associated Landscaping Plans showing typical layouts. - The planting layout of each area is to be approved on site by the Contract Manager prior to planting.							

LANDSCAPE NOTES - GENERAL

Herbicide Application:

At least two weeks prior to the commencement of landscape works spray all grass within the landscape works area with an approved systemic herbicide (e.g. active ingredient glyphosate). Herbicide shall be applied in accordance with the manufacturers directions.

Tree Protection:

Contractor to install suitable protective fencing to Elm trees where they adjoin the works. Maintain existing ground levels at the interface between the ground and the tree trunk. No excavation, filling, machinery access or storage of materials shall occur within the canopy. Roots requiring severance beyond the tree canopy shall be clean cut with hand saw and kept moist. All roots over 40mm dia. and any roots within the fenced area should not be cut without the approval from an experienced and approved Arborist.

Soil Preparation:

Prior to spreading topsoil for garden beds and lawn areas, the sub-base is to be thoroughly cleared of all building rubble and other debris, then ripped to a depth of 200mm and rotary hoed. Incorporate gypsum at the rate of 500grams/square metre throughout all garden beds and lawn areas.

Topsoil:

Spread local topsoil (free of weeds and debris) to an even depth over planting area. For grassed areas 100mm depth for planting areas 200mm depth.

Where there is a shortfall of local soil import approved topsoil. The topsoil blend should consist of the following, or similar approved:

- 60% sandy loam
- 20% aged sawdust
- 20% composted pine bark fines

The pH value of imported topsoil should be between 5.5 - 6.5. The organic additives to the sandy loam should be based on well rotted vegetative material or composted animal manure, or other approved material, free from harmful chemicals, grass and weed growth. Ensure soil mix complies with AS 4419-1998 Soils for Landscaping and Garden Use.

Garden Beds:

Evenly spread 400mm minimum depth of topsoil and incorporate into prepared base.

Wood Mulch (where specified):

Evenly spread a minimum depth of 75mm approved clean, finely graded pine wood mulch (20mm nom. size) or similar approved - over topsoil. Ensure mulch is kept away from tree and shrub trunks. Ensure mulch finishes 20mm below adjoining finished paving levels. Contractor to provide sample for approval.

Gravel Mulch (where specified):

Where indicated on the drawing place 75 mm depth of 20mm dia. Tuscan Stone Gravel (or similar approved) mulch spread evenly. Contractor to provide sample for approval.

Planting:

All plants are to be true to species, healthy and free from pests, disease and stress. All plants to be approved by Contract Manager prior to delivery to site. At the time of planting fertilise all trees (200mm pot size) with 30 grams of 'Osmocote' all purpose general fertiliser. Fertilise all other shrubs and groundcovers with 10 grams of 'Osmocote'. Ensure all plants are well watered in at the time of planting and as necessary for the first year until establishment. For advanced trees apply 30 litres of water immediately following planting and for 150-200mm diameter pots apply 10 litres of water immediately following planting.

Levels / Drainage / Set-out:

No detailed levels information has been shown on this plan. Ground levels within all landscape areas should drain away from buildings towards paths, pits, kerbs etc. in accordance with all regulations. All dimensions are to be verified on site prior to construction commencing. Any discrepancies are to be immediately reported to the Project Manager for further instruction.

MAINTENANCE SPECIFICATION - SOFT LANDSCAPE

Maintenance period 13 weeks from Practical Completion for soft landscape works.

Maintenance to include all landscape works including:

1. tree pits and tree planting
2. garden beds - construction and planting

Garden Beds

Garden beds shall be free from weeds.

All garden beds to maintain a 75 mm deep layer of approved mulch.

Maximum depth of mulch to be 100 mm deep and no less than 25 mm deep. Mulch to conform with AS4454-1987, Composts, Soil Conditioners and Mulches.

Trees

Any pruning shall be undertaken by a qualified and experienced arborist as required to keep the trees in healthy condition, to develop a good structure and promote vigor and to the approval of the Shire. Pruning shall generally respond to the natural growth habits of the species and shall be in accordance with AS4373-1996 Pruning of Amenity Trees.

Chemical use is to be kept to a minimum throughout the site. When herbicides / pesticides are used all applicable regulations should be followed and all manufacturers instructions / rates etc. should be followed. Only persons having successfully completed an approved Chemical Users Course are permitted to use herbicides on the site.

Plant replacement

Plants that die due to natural causes or through poor workmanship within the maintenance period must be replaced by the Contractor. Maintenance on replacement planting shall continue until the plant is established. Expiration of the maintenance period shall occur outside of summer.

In the case of plantings which are damaged or destroyed unlawfully by others during the maintenance period, such plants shall be replaced as specified above for faulty materials and workmanship. The Contractor's liability within the context of this clause is to be limited to the replacement once only of any individual plant, the Contractor being absolved of liability for any malicious destruction of the replacement plant.

Watering

All trees, garden beds and plants are to be regularly monitored to ensure they are receiving appropriate water quantities to maintain healthy plants. The contractor is to ensure the soil profile remains moist and in a free-draining state such that the soils are not saturated. All trees and plants shall receive the following amounts as a guide during the summer period and as required at other times.

- For advanced trees apply 30-40 litres of water per week
 - For shrubs and groundcover 5-10 litres of water per week
- Where natural rainfall in any week during summer of the maintenance period exceeds 25mm equivalent watering may not be required subject to approval.

ISSUE	AMENDMENT	DATE
EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THE DRAWING IS ACCURATE HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.		

Dwg Issue 16062021

Tender issue
Not for Construction

DO NOT SCALE THIS DRAWING	
WARNING: THE LOCATION OF THE SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE VERIFIED ON SITE. ALL WORKS MUST BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.	

Sturt Street Bike Path
Landscape Schedule + Notes

SURVEY: External	DATE:
DRAWN: M. Wilson	DATE: Nov 2020
DESIGN: M. Wilson	DATE: Feb 2021
FILE:	

TEAM LEADER DESIGN

Vaughan Nathan
MANAGER INFRASTRUCTURE

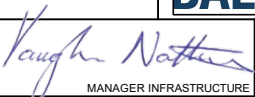
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BALLARAT

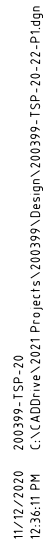


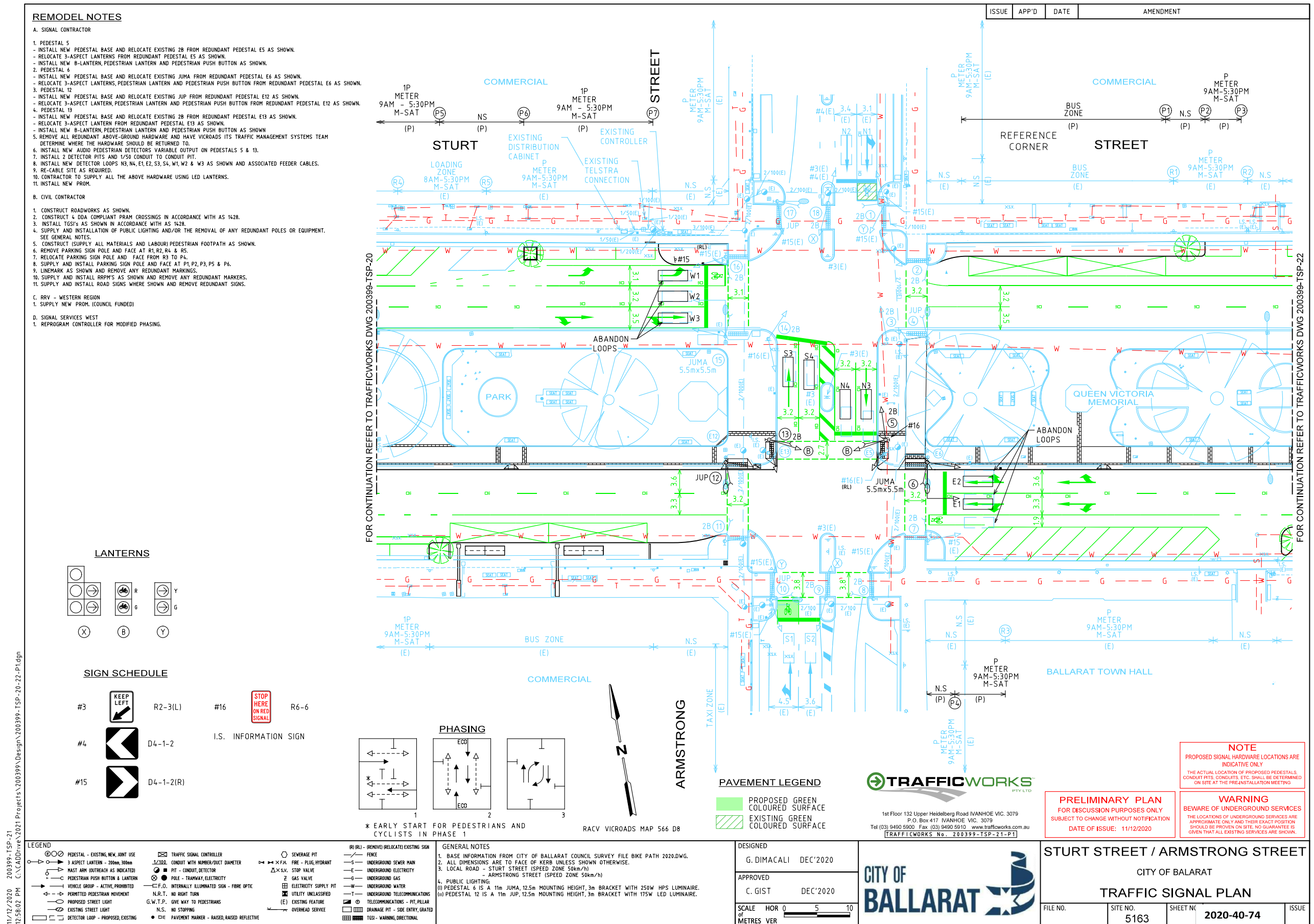
DRAWING NO.
2020-40-72

ALTERATIONS TO TRAFFIC SIGNALS AT INTERSECTIONS

SHEETS 2020-40-73 TO 75

ISSUE	AMENDMENT	DATE		SCALES HORIZ.  VERT.  DO NOT SCALE THIS DRAWING WARNING: THE LOCATION OF U/G SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH REQUIREMENTS OF THE RELEVANT AUTHORITY.	CITY OF BALLARAT STURT STREET BIKE PATH TRAFFIC SIGNALS		DRAWING No.	
EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THE DRAWING IS ACCURATE HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.				SURVEY: External DRAWN: M. Wilson DESIGN: M. Wilson FILES: 58 PIT SCHEDULE	DATE: Nov 2020 DATE: Feb 2020	TEAM LEADER DESIGN	 MANAGER INFRASTRUCTURE	





REMODEL NOTES

A. SIGNAL CONTRACTOR

1. PEDESTAL 1 - INSTALL NEW JUP AS SHOWN.
- RELOCATE 5-ASPECT 'X' LANTERN, 3-ASPECT LANTERNS, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E1 AS SHOWN.
2. PEDESTAL 2 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E2 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, (REMOVE CRANKED BRACKET) PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E2 AS SHOWN.
3. PEDESTAL 4 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E4 AS SHOWN.
- RELOCATE 3-ASPECT LANTERNS FROM REDUNDANT PEDESTAL E4 AS SHOWN.
4. PEDESTAL 5 - INSTALL NEW B-LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON AS SHOWN.
5. PEDESTAL 6 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING JUMA FROM REDUNDANT PEDESTAL E5 AS SHOWN.
- RELOCATE 3-ASPECT LANTERNS, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E5 AS SHOWN.
6. PEDESTAL 7 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E6 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E6 AS SHOWN.
7. PEDESTAL 8 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING JUP FROM REDUNDANT PEDESTAL E7 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E7 AS SHOWN.
8. PEDESTAL 9 - INSTALL NEW 2B AS SHOWN.
9. PEDESTAL 10 - INSTALL NEW 3-ASPECT LANTERNS AND PEDESTRIAN PUSH BUTTON AS SHOWN.
10. PEDESTAL 11 - INSTALL NEW JUP AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, X-LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E9 AS SHOWN.
11. PEDESTAL 12 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2A FROM REDUNDANT PEDESTAL E10 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E10 AS SHOWN.
12. PEDESTAL 13 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING JUP FROM REDUNDANT PEDESTAL E11 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E11 AS SHOWN.
13. PEDESTAL 14 - INSTALL NEW B-LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON AS SHOWN.
14. PEDESTAL 15 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E12 AS SHOWN.
- RELOCATE SOUTH FACING 3-ASPECT LANTERN FROM REDUNDANT PEDESTAL E13 AS SHOWN.
15. PEDESTAL 16 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2A FROM REDUNDANT PEDESTAL E14 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E14 AS SHOWN.
16. PEDESTAL 17 - INSTALL NEW 2B PEDESTAL AS SHOWN.
- INSTALL NEW 3-ASPECT LANTERNS AND PEDESTRIAN PUSH BUTTON AS SHOWN.
17. REMOVE ALL REDUNDANT ABOVE-GROUND HARDWARE AND HAVE VICROADS ITS TRAFFIC MANAGEMENT SYSTEMS TEAM DETERMINE WHERE THE HARDWARE SHOULD BE RETURNED TO.
18. INSTALL NEW AUDIO TACTILE PEDESTRIAN DETECTORS VARIABLE OUTPUT ON PEDESTALS 4 & 12.
19. INSTALL 2 NEW CONDUIT PITS FOR NEW PEDESTALS 8 & 17 AS SHOWN.
20. INSTALL 5 DETECTOR PITS AND 1/50 CONDUIT TO CONDUIT PIT.
21. INSTALL NEW DETECTOR LOOPS E1, E2, E3, S1, S2, S3, S4, W1, W2, W3 N1, N2, N3 & N4 AS SHOWN AND ASSOCIATED FEEDER CABLES.
22. RE-CABLE SITE AS REQUIRED.
23. CONTRACTOR TO SUPPLY ALL THE ABOVE HARDWARE USING LED LANTERNS.
24. INSTALL NEW PROM.

B. CIVIL CONTRACTOR

1. CONSTRUCT ROADWORKS AS SHOWN.
2. CONSTRUCT 5 DDA COMPLIANT PRAM CROSSINGS IN ACCORDANCE WITH AS 1428.
3. INSTALL TGS'S AS SHOWN IN ACCORDANCE WITH AS 1428.
4. SUPPLY AND INSTALLATION OF PUBLIC LIGHTING AND/OR THE REMOVAL OF ANY REDUNDANT POLES OR EQUIPMENT. SEE GENERAL NOTES.
5. CONSTRUCT (SUPPLY ALL MATERIALS AND LABOUR) PEDESTRIAN FOOTPATH AS SHOWN.
6. LINE MARK AS SHOWN AND REMOVE ANY REDUNDANT MARKINGS.
7. SUPPLY AND INSTALL RRPM'S AS SHOWN AND REMOVE ANY REDUNDANT MARKERS.
8. SUPPLY AND INSTALL ROAD SIGNS WHERE SHOWN AND REMOVE REDUNDANT SIGNS.
9. ALL VES1 PITS AND ASSOCIATED CONDUITS TO BE INSTALLED BY POWER COMPANY APPROVED PRE-QUALIFIED ELECTRICAL CONTRACTORS.

C. RRV - WESTERN REGION

1. SUPPLY NEW PROM. (COUNCIL FUNDED)

D. SIGNAL SERVICES WEST

1. REPROGRAM CONTROLLER FOR MODIFIED PHASING

PHASING

1. EARLY START FOR PEDESTRIANS AND CYCLISTS IN PHASE 1

STURT STREET / LYDIARD STREET

TRAFFICWORKS

1st Floor 132 Upper Heidelberg Road IVANHOE VIC. 3079
P.O. Box 417 IVANHOE VIC. 3079
Tel (03) 9490 5900 Fax (03) 9490 5910 www.trafficworks.com.au
[TRAFFICWORKS No. 200399-TSP-22-P1]

LEGEND

PEDESTAL - EXISTING, NEW, JUMP USE
3 ASPECT LANTERN - 200mm, 300mm
MAST ARM (OUTREACH AS INDICATED)
PEDESTRIAN PUSH BUTTON & LANTERN
VEHICLE GROUP - ACTIVE, PROHIBITED
PERMITTED PEDESTRIAN MOVEMENT
PROPOSED STREET LIGHT
EXISTING STREET LIGHT
DETECTOR LOOP - PROPOSED, EXISTING

TRAFFIC SIGNAL CONTROLLER
CONDUIT WITH NUMBER/OUTLET DIAMETER
PIT - CONDUIT, DETECTOR
POLE - TRAMWAY, ELECTRICITY
F.O. INTERNALLY ILLUMINATED SIGN - FIBRE OPTIC
N.R.T. NO RIGHT TURN
G.W.T.P. GIVE WAY TO PEDESTRIANS
N.S. NO STOPPING
PAVEMENT MARKER - RAISED, RAISED REFLECTIVE

SEWERAGE PIT
FIRE - PLUS, HYDRANT
STOP VALVE
Z GAS VALVE
ELECTRICITY SUPPLY PIT
UNDERGROUND TELECOMMUNICATIONS
TELECOMMUNICATIONS - PIT, PILLAR
DRAINAGE PIT - SIDE ENTRY, GRATED
TGS - WARNING, DIRECTIONAL

REMOVE/RELOCATED EXISTING SIGN
UNDERGROUND SEWER MAIN
UNDERGROUND ELECTRICITY
UNDERGROUND GAS
UNDERGROUND WATER
UNDERGROUND TELECOMMUNICATIONS
EXISTING FEATURE
OVERHEAD SERVICE

GENERAL NOTES

1. BASE INFORMATION FROM CITY OF BALLARAT COUNCIL SURVEY FILE BIKE PATH 2020.DWG.
2. ALL DIMENSIONS ARE TO FACE OF KERB UNLESS SHOWN OTHERWISE.
3. LOCAL ROAD - STURT STREET (SPEED ZONE 50km/h)
- LYDIARD STREET (SPEED ZONE 50km/h)
4. PUBLIC LIGHTING:
(i) PEDESTALS 1 & 9 TO BE 8.5m JUP, 10m MOUNTING HEIGHT, 3m BRACKET WITH 150W HPS LUMINAIRES.
(ii) PEDESTAL 5 IS A 10m JUMA, 12.5m MOUNTING HEIGHT, 3m BRACKET WITH 250W HPS LUMINAIRE.
(iii) PEDESTAL 7 IS A 8.5m JUP, 10m MOUNTING HEIGHT, 3m BRACKET WITH 150W HPS LUMINAIRE.
(iv) PEDESTAL 11 IS A 10m JUP, 12.5m MOUNTING HEIGHT, 3m BRACKET WITH 250W HPS LUMINAIRE.

REMODEL NOTES

A. SIGNAL CONTRACTOR

1. PEDESTAL 1 - INSTALL NEW JUP AS SHOWN.
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3. PEDESTAL 4 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E4 AS SHOWN.
- RELOCATE 3-ASPECT LANTERNS FROM REDUNDANT PEDESTAL E4 AS SHOWN.
4. PEDESTAL 5 - INSTALL NEW B-LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON AS SHOWN.
5. PEDESTAL 6 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING JUMA FROM REDUNDANT PEDESTAL E5 AS SHOWN.
- RELOCATE 3-ASPECT LANTERNS, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E5 AS SHOWN.
6. PEDESTAL 7 - INSTALL PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E6 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E6 AS SHOWN.
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- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E7 AS SHOWN.
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9. PEDESTAL 10 - INSTALL NEW 3-ASPECT LANTERNS AND PEDESTRIAN PUSH BUTTON AS SHOWN.
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- RELOCATE 3-ASPECT LANTERN, X-LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E9 AS SHOWN.
11. PEDESTAL 12 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2A FROM REDUNDANT PEDESTAL E10 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E10 AS SHOWN.
12. PEDESTAL 13 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING JUP FROM REDUNDANT PEDESTAL E11 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E11 AS SHOWN.
13. PEDESTAL 14 - INSTALL NEW B-LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON AS SHOWN.
14. PEDESTAL 15 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2B FROM REDUNDANT PEDESTAL E12 AS SHOWN.
- RELOCATE SOUTH FACING 3-ASPECT LANTERN FROM REDUNDANT PEDESTAL E13 AS SHOWN.
15. PEDESTAL 16 - INSTALL NEW PEDESTAL BASE AND RELOCATE EXISTING 2A FROM REDUNDANT PEDESTAL E14 AS SHOWN.
- RELOCATE 3-ASPECT LANTERN, PEDESTRIAN LANTERN AND PEDESTRIAN PUSH BUTTON FROM REDUNDANT PEDESTAL E14 AS SHOWN.
16. PEDESTAL 17 - INSTALL NEW 2B PEDESTAL AS SHOWN.
- INSTALL NEW 3-ASPECT LANTERNS AND PEDESTRIAN PUSH BUTTON AS SHOWN.
17. REMOVE ALL REDUNDANT ABOVE-GROUND HARDWARE AND HAVE VICROADS ITS TRAFFIC MANAGEMENT SYSTEMS TEAM DETERMINE WHERE THE HARDWARE SHOULD BE RETURNED TO.
18. INSTALL NEW AUDIO TACTILE PEDESTRIAN DETECTORS VARIABLE OUTPUT ON PEDESTALS 4 & 12.
19. INSTALL 2 NEW CONDUIT PITS FOR NEW PEDESTALS 8 & 17 AS SHOWN.
20. INSTALL 5 DETECTOR PITS AND 1/50 CONDUIT TO CONDUIT PIT.
21. INSTALL NEW DETECTOR LOOPS E1, E2, E3, S1, S2, S3, S4, W1, W2, W3 N1, N2, N3 & N4 AS SHOWN AND ASSOCIATED FEEDER CABLES.
22. RE-CABLE SITE AS REQUIRED.
23. CONTRACTOR TO SUPPLY ALL THE ABOVE HARDWARE USING LED LANTERNS.
24. INSTALL NEW PROM.

B. CIVIL CONTRACTOR

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2. CONSTRUCT 5 DDA COMPLIANT PRAM CROSSINGS IN ACCORDANCE WITH AS 1428.
3. INSTALL TGS'S AS SHOWN IN ACCORDANCE WITH AS 1428.
4. SUPPLY AND INSTALLATION OF PUBLIC LIGHTING AND/OR THE REMOVAL OF ANY REDUNDANT POLES OR EQUIPMENT. SEE GENERAL NOTES.
5. CONSTRUCT (SUPPLY ALL MATERIALS AND LABOUR) PEDESTRIAN FOOTPATH AS SHOWN.
6. LINE MARK

8.7. TENDER 2021/22-18 VICTORIA PARK PAVILION CONSTRUCTION

Division: Development and Growth
Director: Natalie Robertson
Author/Position: Philip Barnett – Project Manager

PURPOSE

1. To award Contract 2021/22-018 – Victoria Park Pavilion Construction.
2. The scope of the contract includes the construction of a new community sports pavilion inclusive of changerooms and amenities, social rooms, kitchen and kiosk, internal and public toilets. The contract also includes the delivery of associated carparking and landscaping works.

BACKGROUND

3. The Victoria Park Pavilion construction forms part of the Victoria Park Redevelopment Project which has a Council Budget allocation of \$5,200,000 and forms part of the Fast-Tracking Recreation Projects Program.
4. A Funding Agreement has been entered into with the State Government of Victoria represented by the Department of Jobs, Precincts and Regions (DJPR) for the amount of \$500,000 towards the delivery of the Victoria Park Pavilion Construction.
5. The project delivers on elements of the Victoria Park Master Plan (2015) which recommended under 6.3 (page 32) the “development of improved facilities in the proximity of existing high use areas, including improved access to all toilets, all abilities facilities and the provision of female change rooms”.
6. Through a consultation process with the Victoria Park Soccer Club, Lucas Cricket Club, and other park users, the Victoria Park Pavilion project was designed to accommodate tenant sporting clubs while still being flexible to accommodate for other user groups and community organisations.
7. A Planning Permit PLP/2021/85 for the Victoria Park Redevelopment Project was issued on 27 April 2021, approving the scope of work which included the development of a sport pavilion (the subject of this contract), removal of vegetation and other associated works.
8. This Planning Permit approved the floor plan for the Victoria Park Pavilion which provides four accessible changerooms, social spaces, kitchen and kiosk, internal and external toilets and all associated services. The Planning Permit also approved the landscape and precinct plans for the surrounds of the facility.

KEY MATTERS

9. Five submissions were received, four of which were conforming.
10. The tendered price is within the project budget and is inclusive of all required works, sub consultants and costs.

OFFICER RECOMMENDATION

11. That Council:

11.1 Resolves to enter into Contract Number "2021/22-018" for the provision of "Victoria Park Pavilion Construction" with A.W. Nicholson Pty Ltd for the total tendered price of \$2,658,435 (ex GST).

11.2 Delegate to the Chief Executive Officer the authority to execute the associated contract on behalf of Council.

ATTACHMENTS

1. Governance Review [8.7.1 - 3 pages]

OFFICIAL

ALIGNMENT WITH COUNCIL VISION, COUNCIL PLAN, STRATEGIES AND POLICIES

1. The project delivers on elements of the Victoria Park Master Plan (2015) which recommended under 6.3 (page 32) the “development of improved facilities in the proximity of existing high use areas, including improved access to all toilets, all abilities facilities and the provision of female change rooms”.

COMMUNITY IMPACT

2. The Victoria Park Pavilion will significantly improve to usability of the existing pitches and new pavilion, encouraging continued community usage. Victoria Park is an important recreation asset in the heart of Ballarat and offer significant community benefits in the way of both physical participation in sport and recreation and also engagement in community club and group environments

CLIMATE EMERGENCY AND ENVIRONMENTAL SUSTAINABILITY IMPLICATIONS

3. The information presented within this report does not have any identifiable environmental implications in and of itself.

ECONOMIC SUSTAINABILITY IMPLICATIONS

4. Approximately 95% (\$2,525,513) of the total project value will utilise labour, materials, plant, and equipment sourced from within the defined group of local municipalities.

FINANCIAL IMPLICATIONS

5. The tendered price is within with the planned budget for these works.
6. The tendered works are a core scope item of the Project as defined by the project deliverables outlined in the signed funding agreement between the State Government of Victoria represented by the Department of Jobs, Precincts and Regions (DJPR) and the City of Ballarat.

LEGAL AND RISK CONSIDERATIONS

7. Award of this contract does not have any significant effect on Council's risk profile. Risks present in this work are typical for construction of new public facilities and are expected to be adequately controlled through existing provisions.
8. A Risk Management Plan has been developed and is monitored through the Project Control Group

HUMAN RIGHTS CONSIDERATIONS

9. It is considered that the report does not impact on any human rights identified in the *Charter of Human Rights and Responsibilities Act 2006*.

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COMMUNITY CONSULTATION AND ENGAGEMENT

10. The Planning Permit process for the project included pre consultation including a letter drop to residents, an in-person community engagement session onsite. The Planning Permit itself was advertised publicly.
11. The site stakeholders and the State Government of Victoria are represented on the Project Control Group for this project and have been involved throughout the design process and have approved final concepts.
12. Consultation with user groups is actively managed by Council's Sport and Active Living unit.
13. User groups will continue to be consulted throughout the project construction and will be provided with regular updates regarding the projects progress by Council's Recreation Services unit.
14. Additional updates on this project are being provided through Council's media department and through the State Government (funding partner) media unit as required.

GENDER EQUALITY ACT 2020

15. There are no gender equality implications identified for the subject of this report.

CONFLICTS OF INTEREST THAT HAVE ARISEN IN PREPARATION OF THE REPORT

16. Council officers affirm that no general or material conflicts need to be declared in relation to the matter of this report.

OFFICIAL

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8.8. TENDER 2021/22-163 CUTHBERTS ROAD RECONSTRUCTION (BURRUMBEET-SMARTS HILL)

Division: Infrastructure and Environment
Director: Bridget Wetherall
Author/Position: Robin Hand – Contracts Administration Officer

PURPOSE

1. To award Contract Number 2021/22-163 for the provision of Cuthberts Road Reconstruction (Burrumbeet-Hillcrest Road to Smarts Hill Road) with Fulton Hogan Industries Pty Ltd for the total tendered price of \$956,976.82 (ex GST).
2. This project will see approximately 1.8 km of existing road pavement in Cuthberts Road, between Burrumbeet-Hillcrest Road to Smarts Hill Road stabilised and reconstructed with a sealed surface and new open drains formed to channel water.
3. There are three intersecting roads within the extent of works that will be constructed with an asphalt wearing course.

BACKGROUND

4. This project is one of four tenders advertised for road reconstruction works involving pavement stabilisation. All four projects have been successful in meeting the selection criteria for funding as part of the Local Roads and Community Infrastructure Program Phase 2 being funded by the Department of Transport.
5. All four projects are required to have a practical completion date of 31st December 2021.
6. Cuthberts Road is a highly trafficked collector road providing connection between Lake Burrumbeet and development in the municipality's western suburbs with an approx. length of 13km, frequently used by motorists and cyclists.
7. A program of upgrades has taken place in various stages over previous years which started at Learmonth Street, Alfredton and has progressively moved west. These works will provide a safer environment for the motorists and cyclists that use this road.
8. The project involves several components of work which were identified during the design stage including the following:
 - earthworks;
 - drainage construction;
 - kerb & channel construction;
 - road pavement stabilisation;
 - road pavement construction & sealing;
 - asphalt road surfacing;
 - guard rail installation;
 - gravel driveway reinstatement;
 - line marking;
 - raised pavement markers;
 - signage, and ancillary works.

KEY MATTERS

9. Five (5) Tender responses were received and evaluated with one (1) tender considered to be non-conforming.

OFFICER RECOMMENDATION

10. That Council:

10.1 Enter into Contract Number 2021/22-163 for the provision of Cuthberts Road Reconstruction (Burrumbeet-Hillcrest Road to Smarts Hill Road) with Fulton Hogan Industries Pty Ltd for the total tendered price of \$956,976.82 (ex GST).

10.2 Delegate to the Chief Executive Officer the authority to execute the associated contract on behalf of Council.

ATTACHMENTS

1. Governance Review [8.8.1 - 2 pages]
2. CONTRACT 202122-163 CONSTRUCTION DRAWINGS (TENDER) (2) [8.8.2 - 51 pages]

OFFICIAL

ALIGNMENT WITH COUNCIL VISION, COUNCIL PLAN, STRATEGIES AND POLICIES

1. This report supports the Council Plan goals of liveability and sustainability by upgrading Council's Infrastructure and Assets throughout the municipal road network to provide safer passage for all affected users.

COMMUNITY IMPACT

2. The City of Ballarat has a charter to serve its local community. This project is providing the wider community with much needed upgrades to Council assets which will enable the users to have greater ease of vehicular access.
3. This project will see approximately 1.8 km's of existing road pavement in Cuthberts Road, between Burrumbeet-Hillcrest Road to Smarts Hill Road stabilised and reconstructed with a sealed surface and new open drains formed to channel water.

CLIMATE EMERGENCY AND ENVIRONMENTAL SUSTAINABILITY IMPLICATIONS

4. There will not be any significant environmental implications resulting from this project. Environmental controls will be in place for the duration of the project. The recommended tenderer has the appropriate Environmental Management System to be able to cater for any environmental issues that may result during the construction of the project.
5. Fulton Hogan Industries Pty Ltd have indicated that should they be successful in their submission that on behalf of Fulton Hogan Industries Pty Ltd and City of Ballarat they have pledged to plant and maintain 200 native tube stock trees at no cost to Council to assist in reducing the carbon footprint of these works. The trees can be planted at their Tylden quarry or within the limit of works and will be maintained for a period of 12 months until they are established. The evaluation panel took this on notice after scoring had been completed and saw this as an added bonus to Council should they successfully receive a contract for this tender.

ECONOMIC SUSTAINABILITY IMPLICATIONS

6. The construction of this project will see Fulton Hogan Industries Pty Ltd responsible for maintaining six (6) full-time local jobs over the period of the project along with ancillary employment from material suppliers and professional services.
7. Approximately 99.4% (\$951,234.96) of the total project value will utilise labour, materials, plant, and equipment sourced from within the defined group of local municipalities.

FINANCIAL IMPLICATIONS

8. The tender price is \$956,976.82 (ex GST) which includes a provisional sum of \$95,040.00 approx. built into the contract for contingencies.
9. The City of Ballarat have been successful in receiving funding as part of the Local Roads and Community Infrastructure Program Phase 2 being funded by the Department of Transport.

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10. This project has a nominated funding amount of \$750,000.00, with the remainder of funds to be drawn from expected savings of approx. \$327,030.69 from Tender 2021/22-200 Cuthberts Road Reconstruction (Whites-Finchs), which is also funded by the Local Roads and Community Infrastructure Program Phase 2.
11. This project has an agreed physical completion of works date of 31st December 2021.

LEGAL AND RISK CONSIDERATIONS

12. The project has been designed and will be constructed in accordance with all relevant design standards. The contract provides for management of traffic, pedestrians, property, and environment during the delivery of the works, with stringent Occupational Health and Safety requirements. The recommended contractor in this instance has appropriate OHS systems operable to meet the requirements of this project.

HUMAN RIGHTS CONSIDERATIONS

13. It is considered that the report does not impact on any human rights identified in the *Charter of Human Rights and Responsibilities Act 2006*.

COMMUNITY CONSULTATION AND ENGAGEMENT

14. Consultation with road users affected by this project has been undertaken by Council's Infrastructure & Environment Unit.
15. The Chief Executive Officer and the Communications and Marketing Unit of Council will participate in the media and communications associated with the delivery of works under this contract.

GENDER EQUALITY ACT 2020

16. There are no gender equality implications identified for the subject of this report.

CONFLICTS OF INTEREST THAT HAVE ARISEN IN PREPARATION OF THE REPORT

17. Council officers affirm that no general or material conflicts need to be declared in relation to the matter of this report.

OFFICIAL

DRAWING # 2021 - 44	
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1	ALIGNMENT PLAN - DESIGN LEGEND
2	DESIGN PLAN
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7	ROAD LONGITUDINAL SECTION
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46	DRAINAGE LONGITUDINAL SECTIONS
47	DRAINAGE LONGITUDINAL SECTIONS
48	DESIGN PAVEMENT PROFILES - TYPICAL ROAD CROSS SECTION
49	SET OUT DATA
50	SET OUT DATA

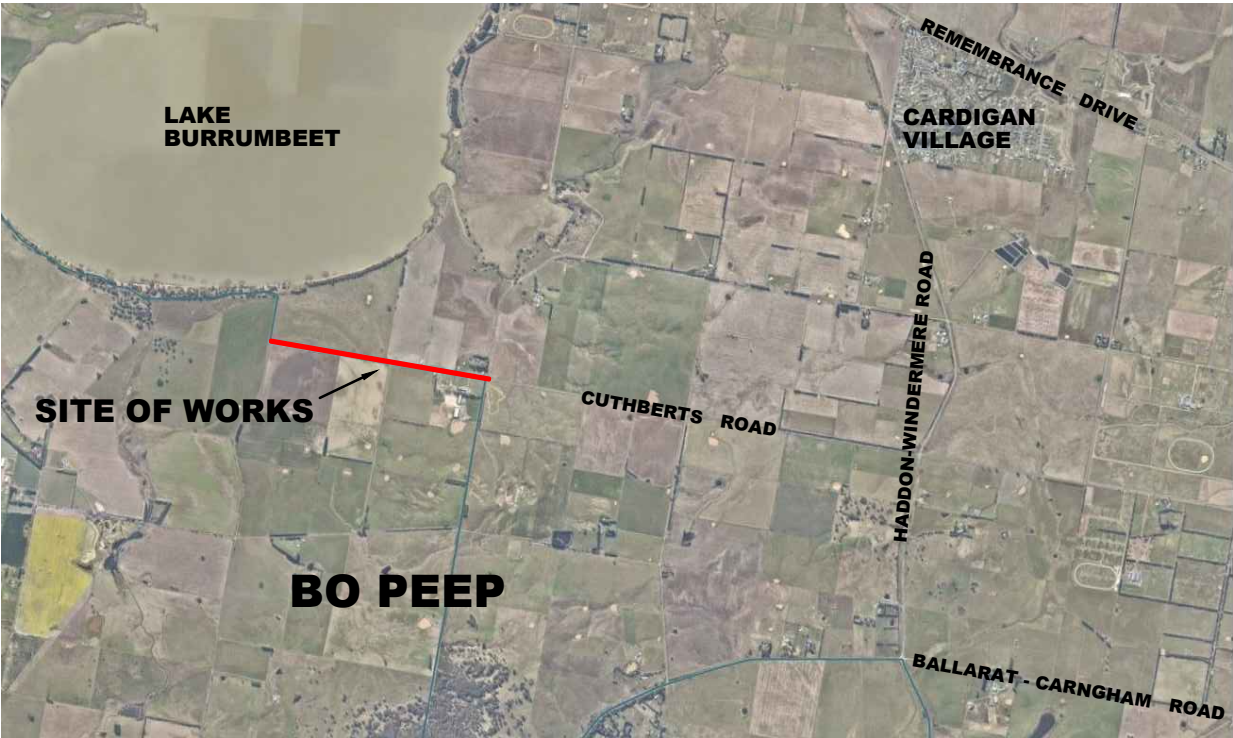


**CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)**

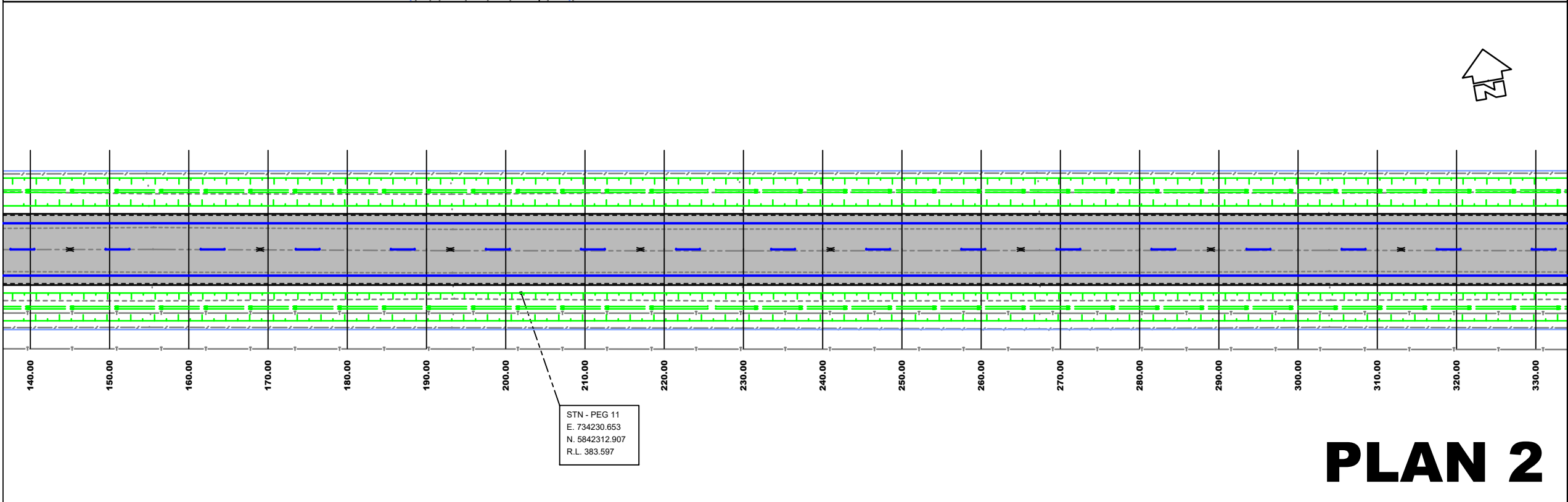
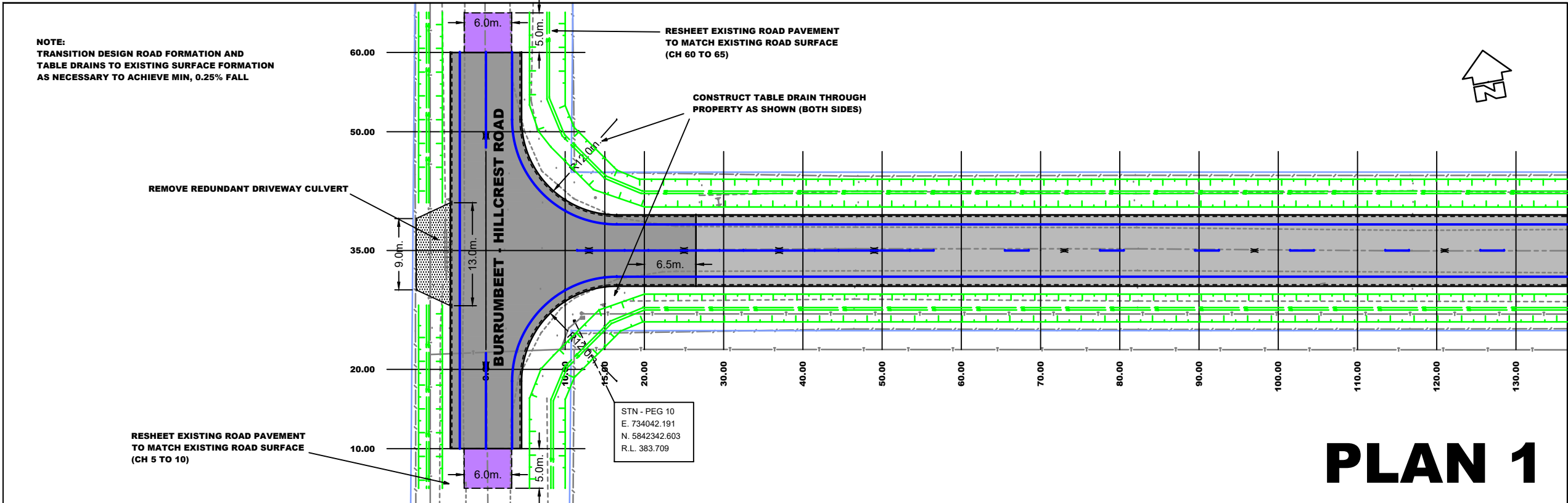
CONSTRUCTION DRAWINGS



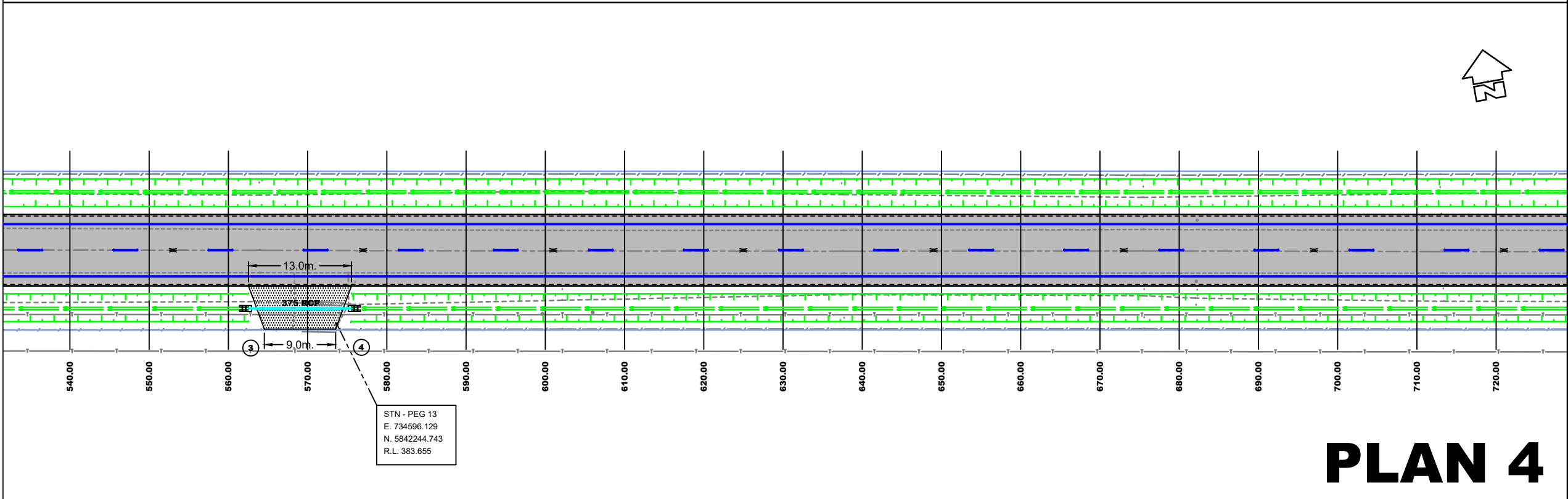
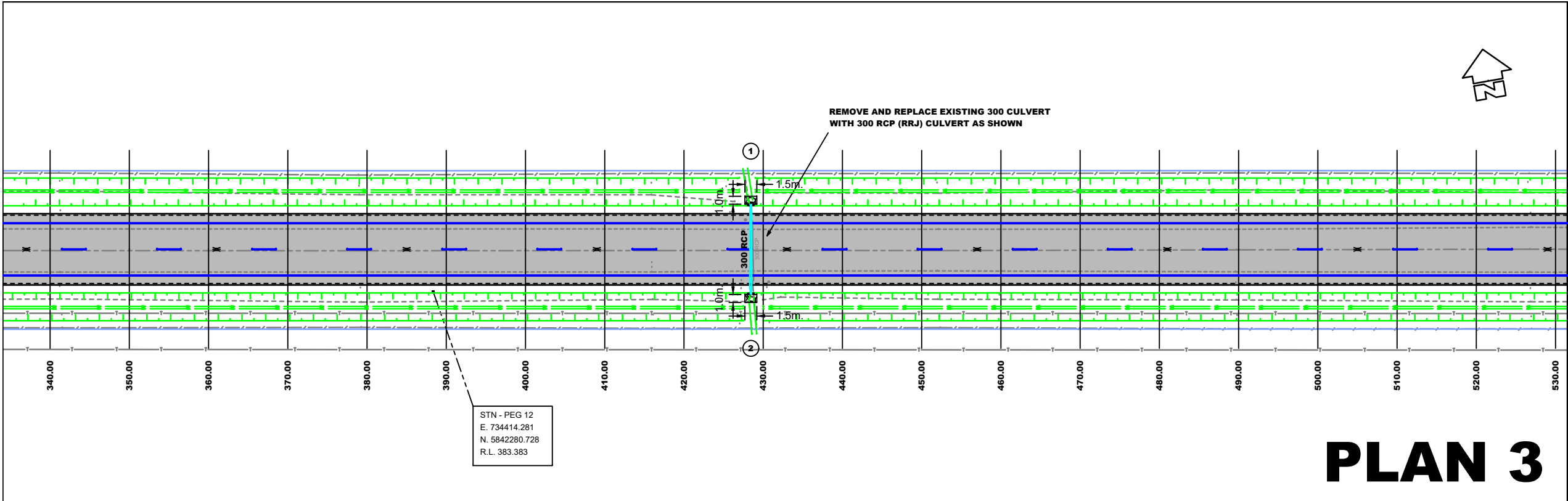
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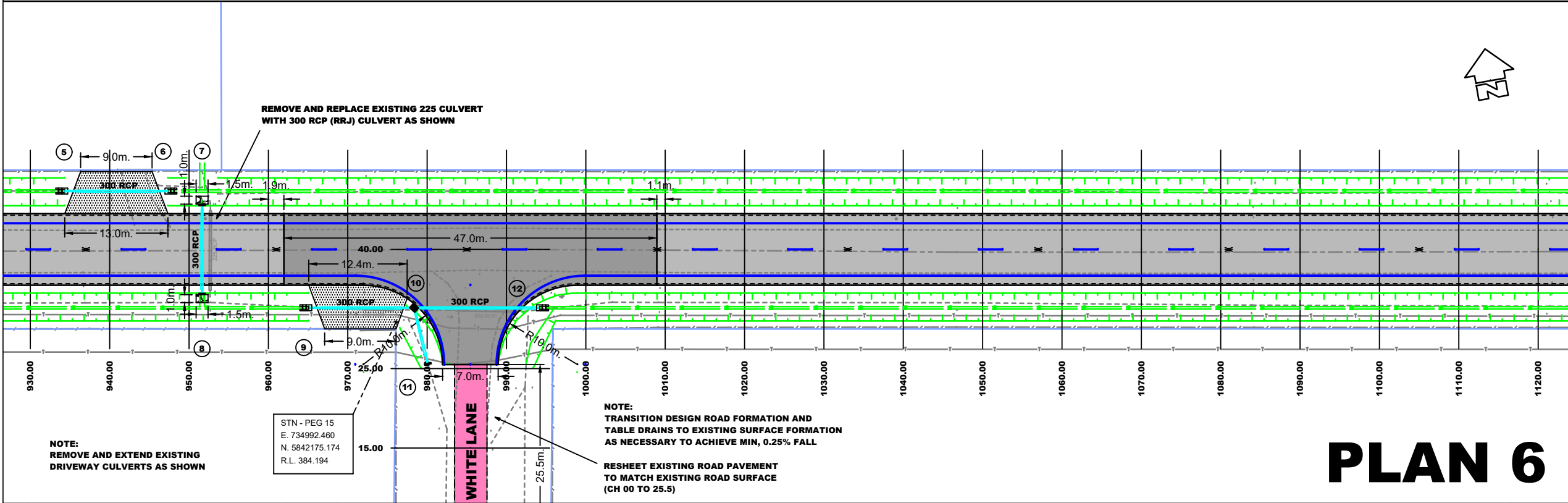
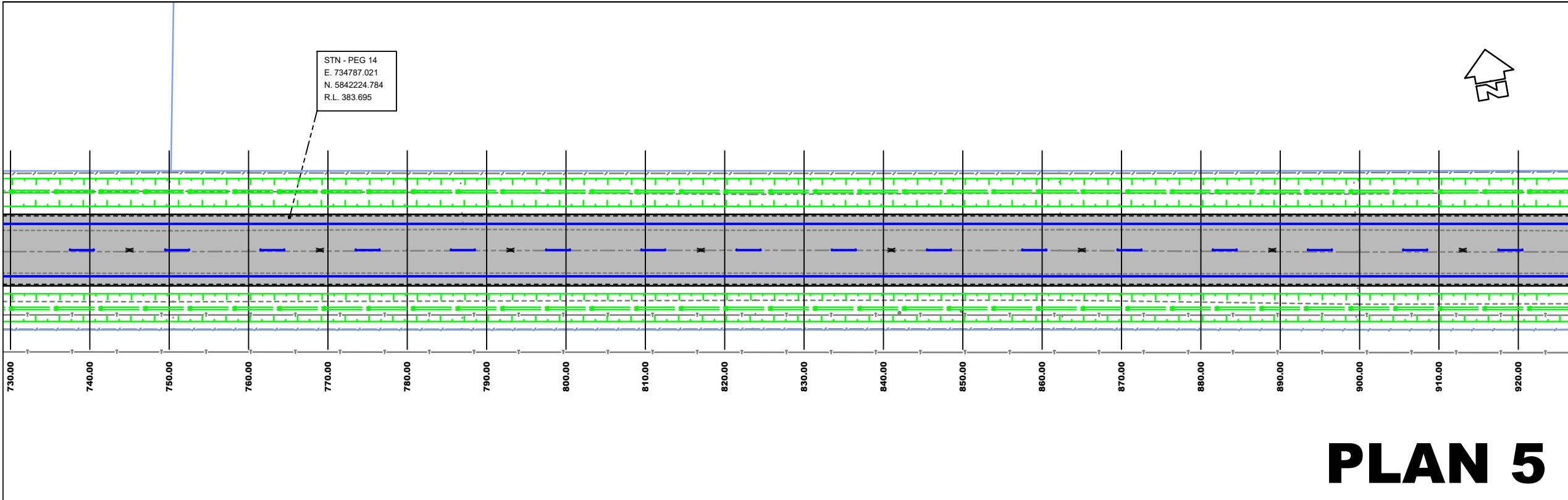




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EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED. DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.																																						
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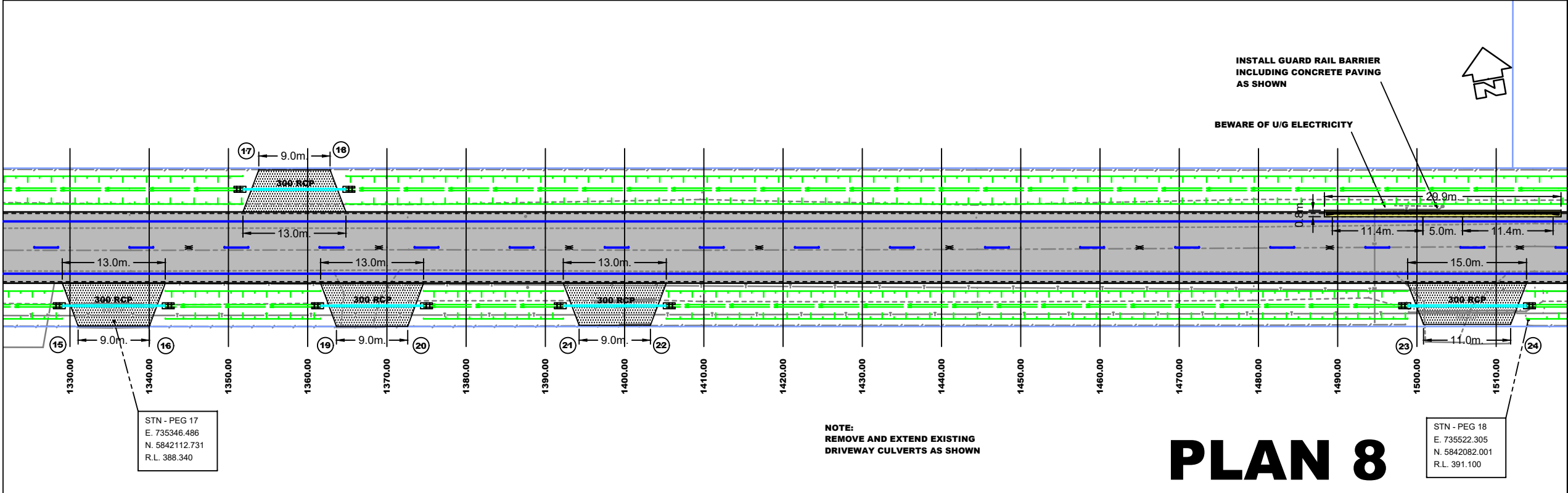
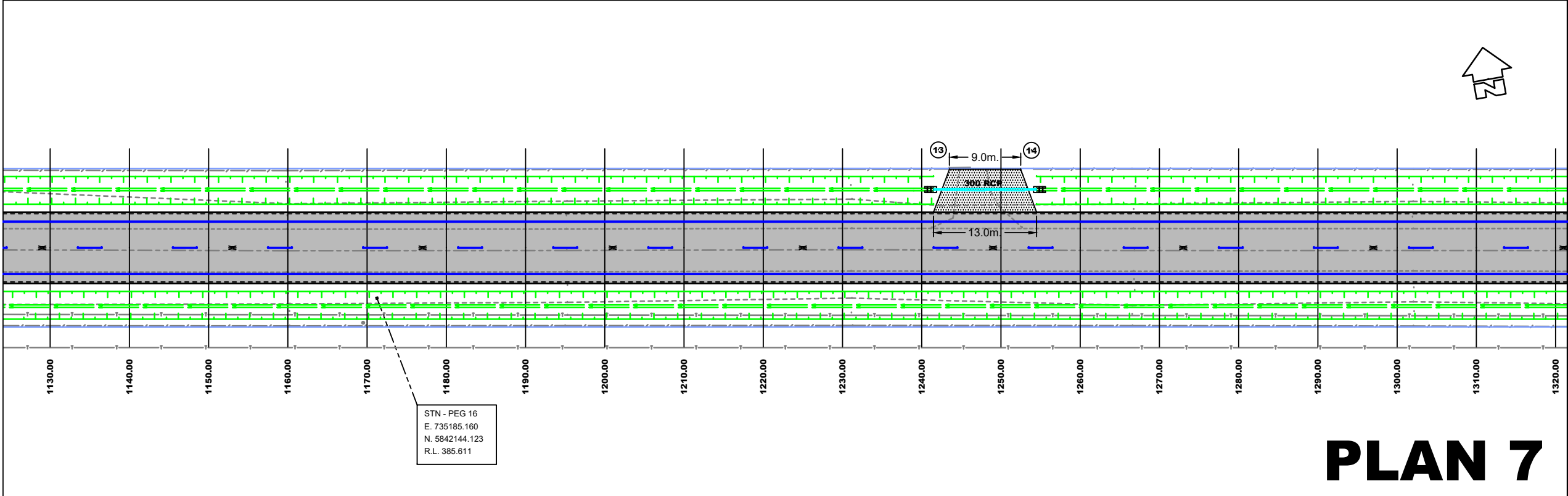
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CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

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DESIGNED G. R. DATE: 7 / 21	TEAM LEADER DESIGN & SURVEY	MANAGER INFRASTRUCTURE DEVELOPMENT	SHEET 4 of 50 SHEETS
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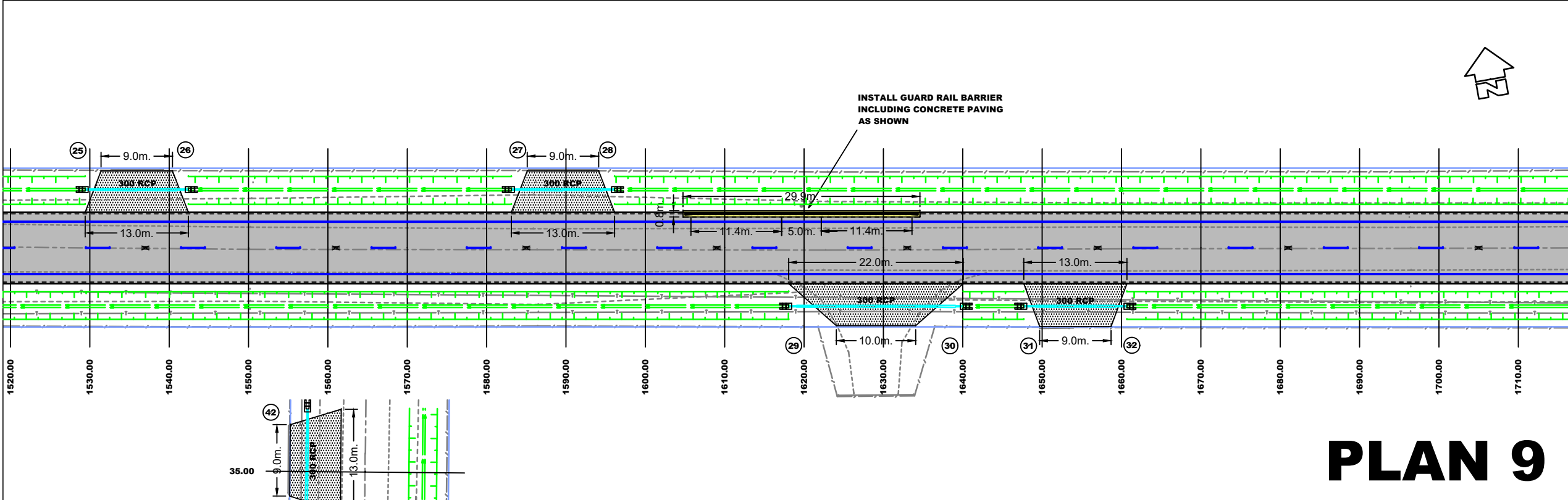
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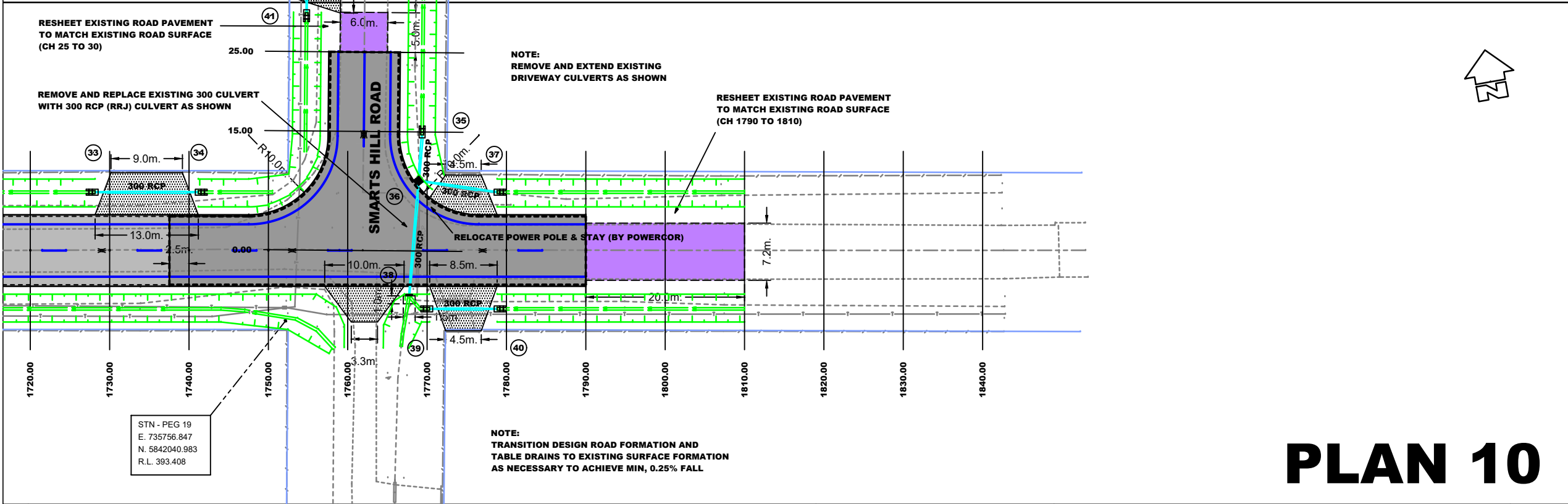
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CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

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PLAN 9



PLAN 10

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DESIGN PLAN

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R.L. 393.408

NOTE:
REMOVE AND EXTEND EXISTING
DRIVEWAY CULVERTS AS SHOWN

NOTE:
TRANSITION DESIGN ROAD FORMATION AND
TABLE DRAINS TO EXISTING SURFACE FORMATION
AS NECESSARY TO ACHIEVE MIN. 0.25% FALL

SCALES

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CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

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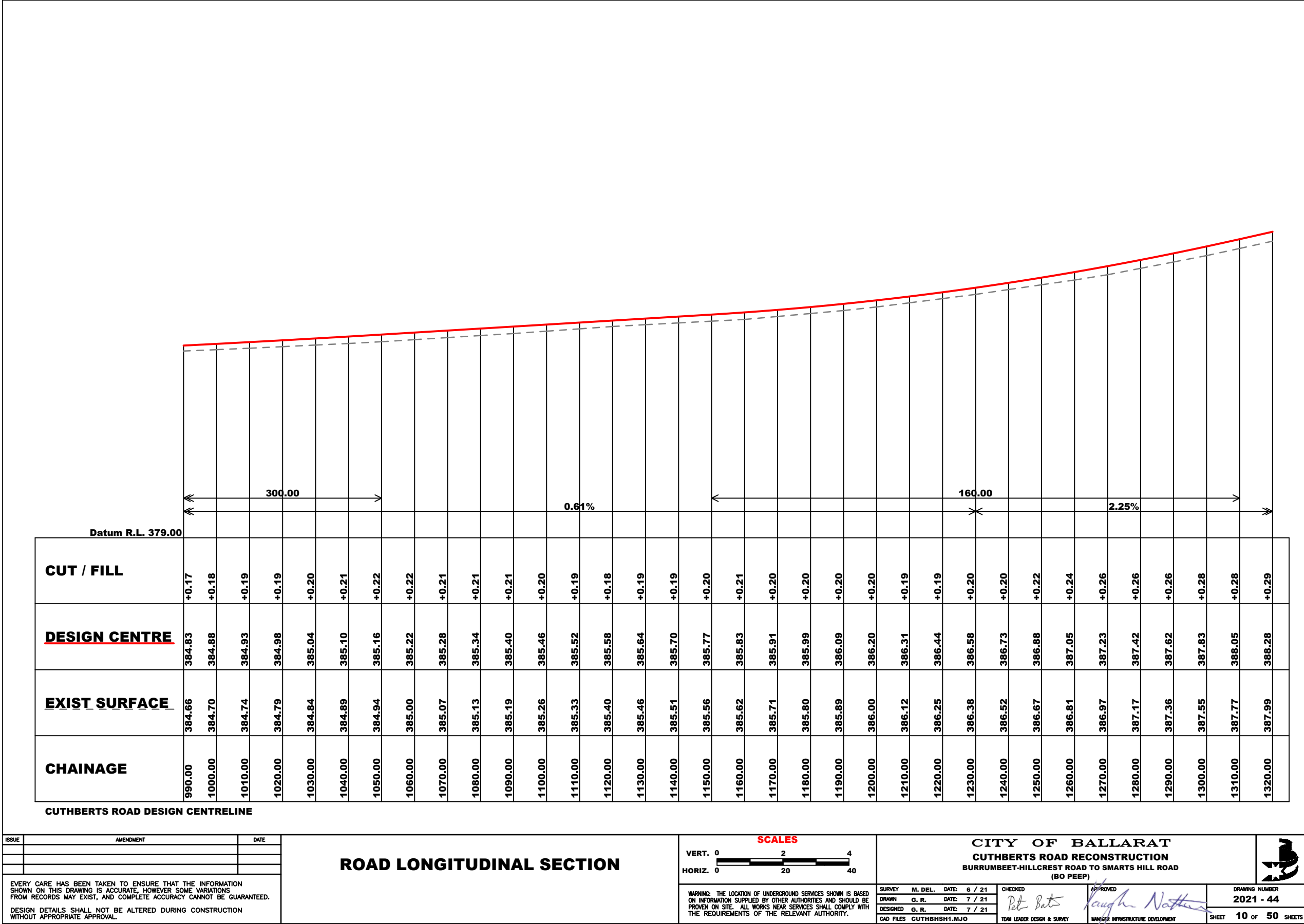
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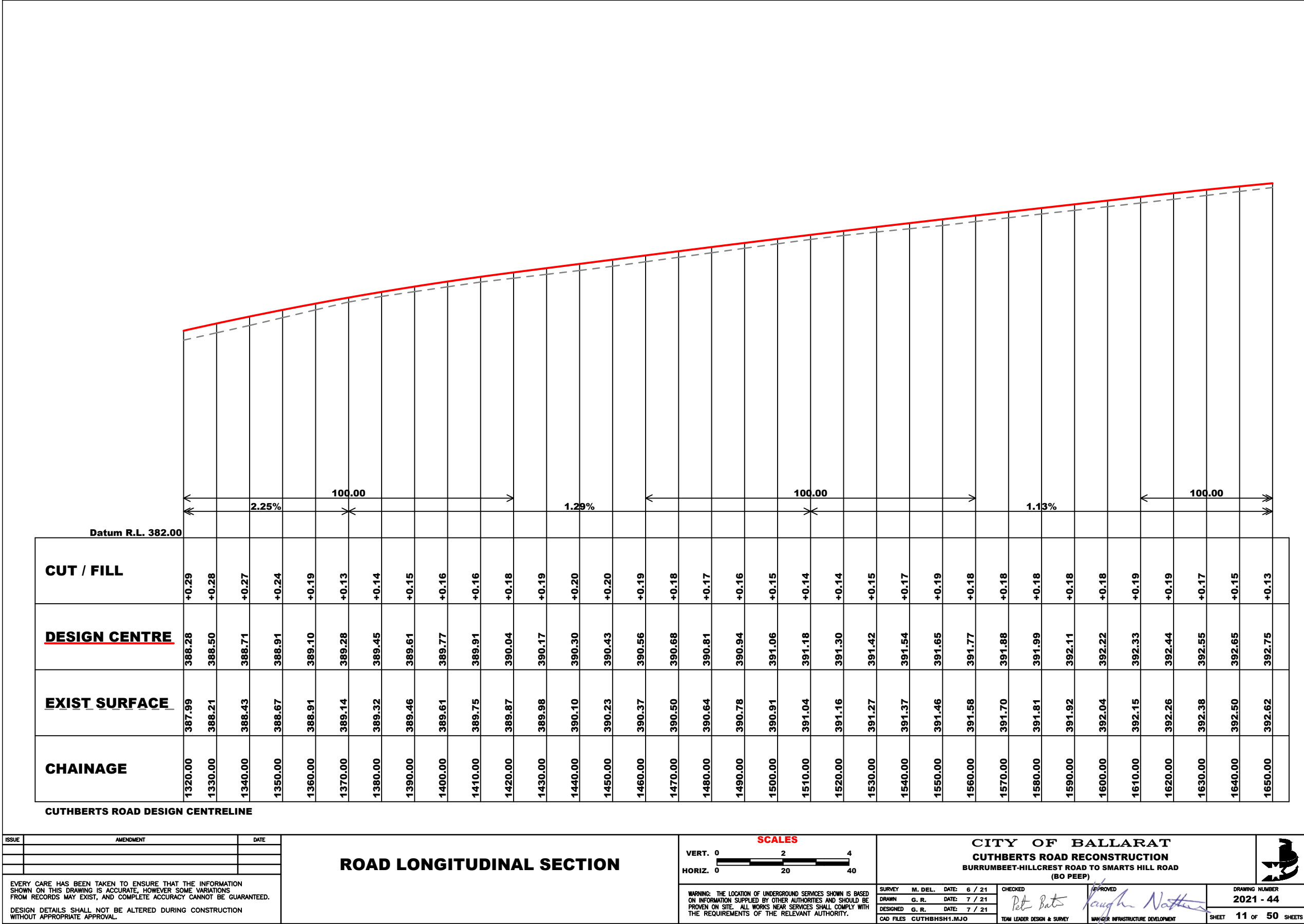
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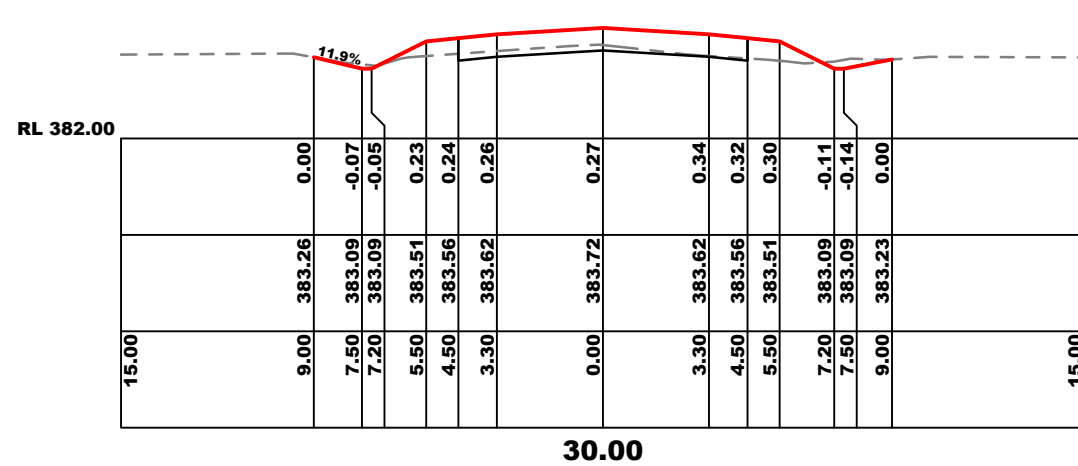
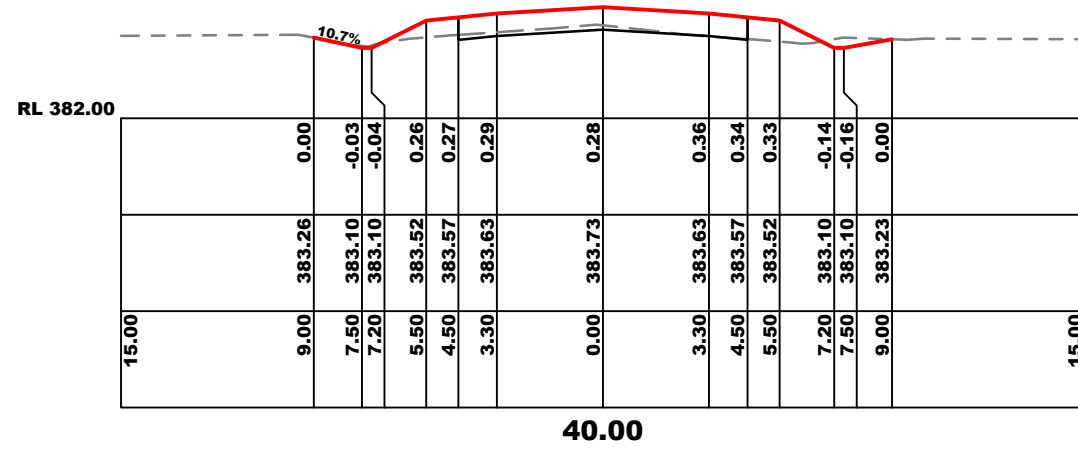
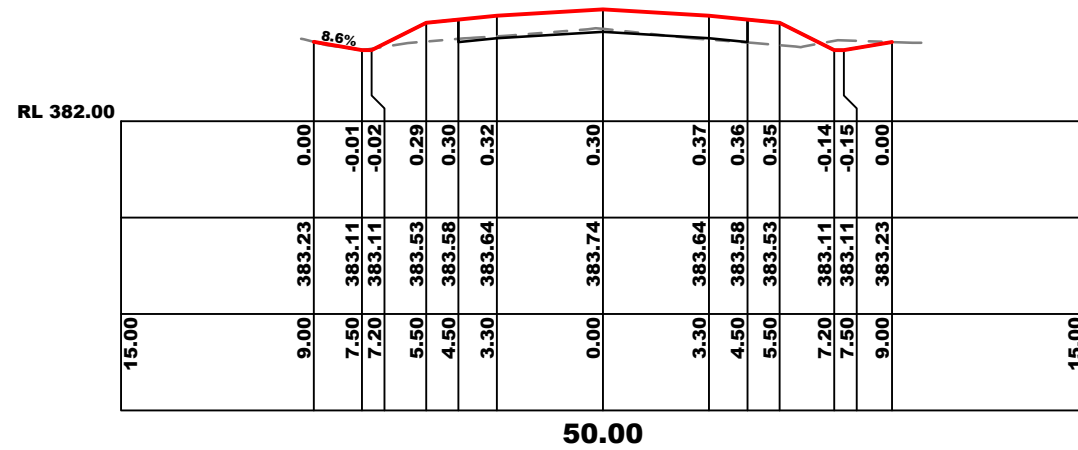




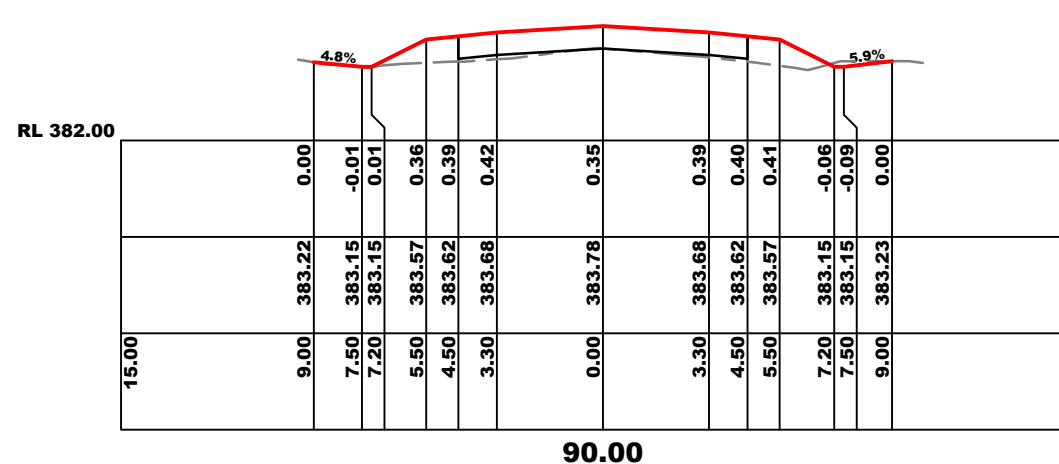
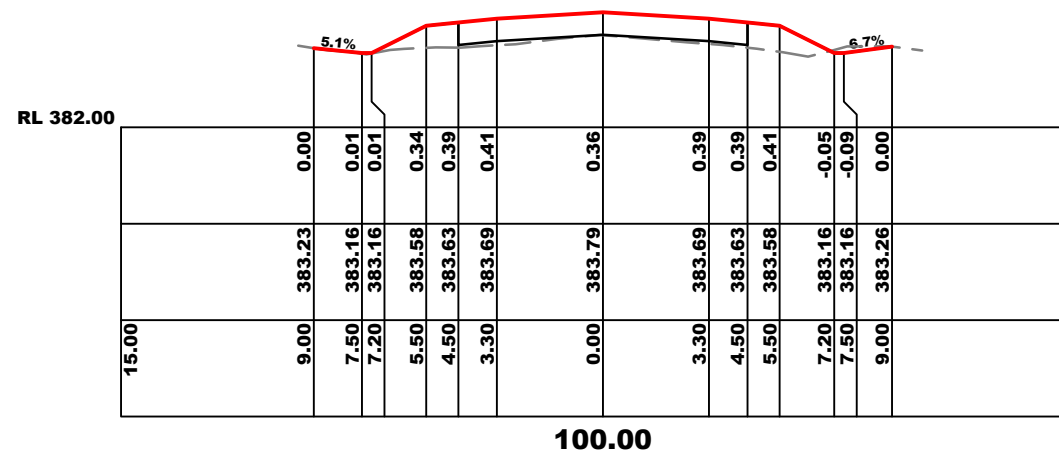




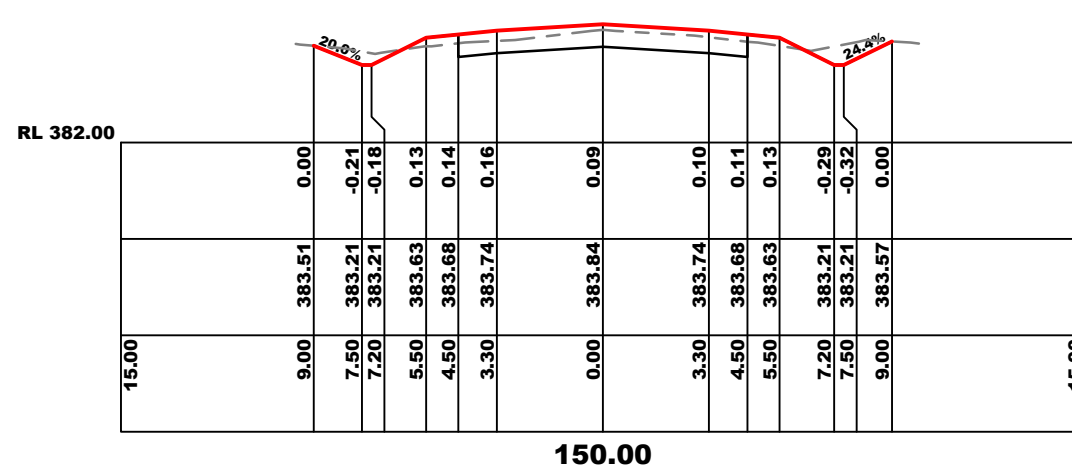
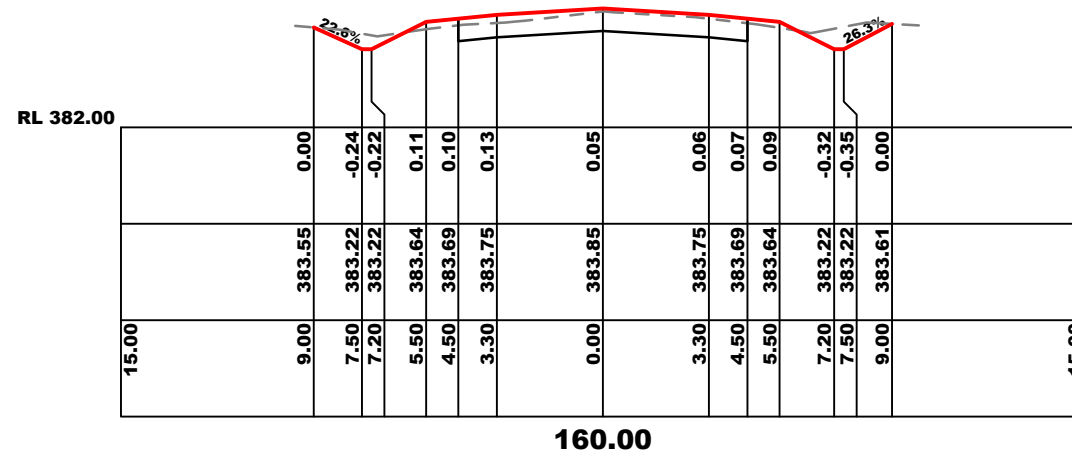
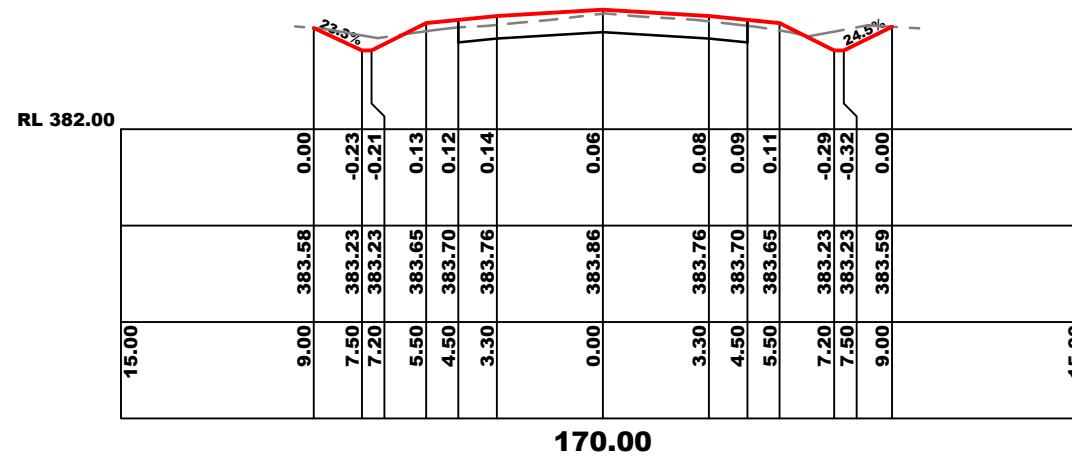




CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)					
SURVEY M. DEL. DATE: 6 / 21		CHECKED <i>Pet Buta</i>		APPROVED <i>Nathan Natter</i>	
DRAWN G. R. DATE: 7 / 21		DESIGNED G. R. DATE: 7 / 21		DRAWING NUMBER 2021 - 44	
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ROAD CROSS SECTIONS

ROAD CROSS SECTIONS (CUTHBERTS ROAD)

SCALES

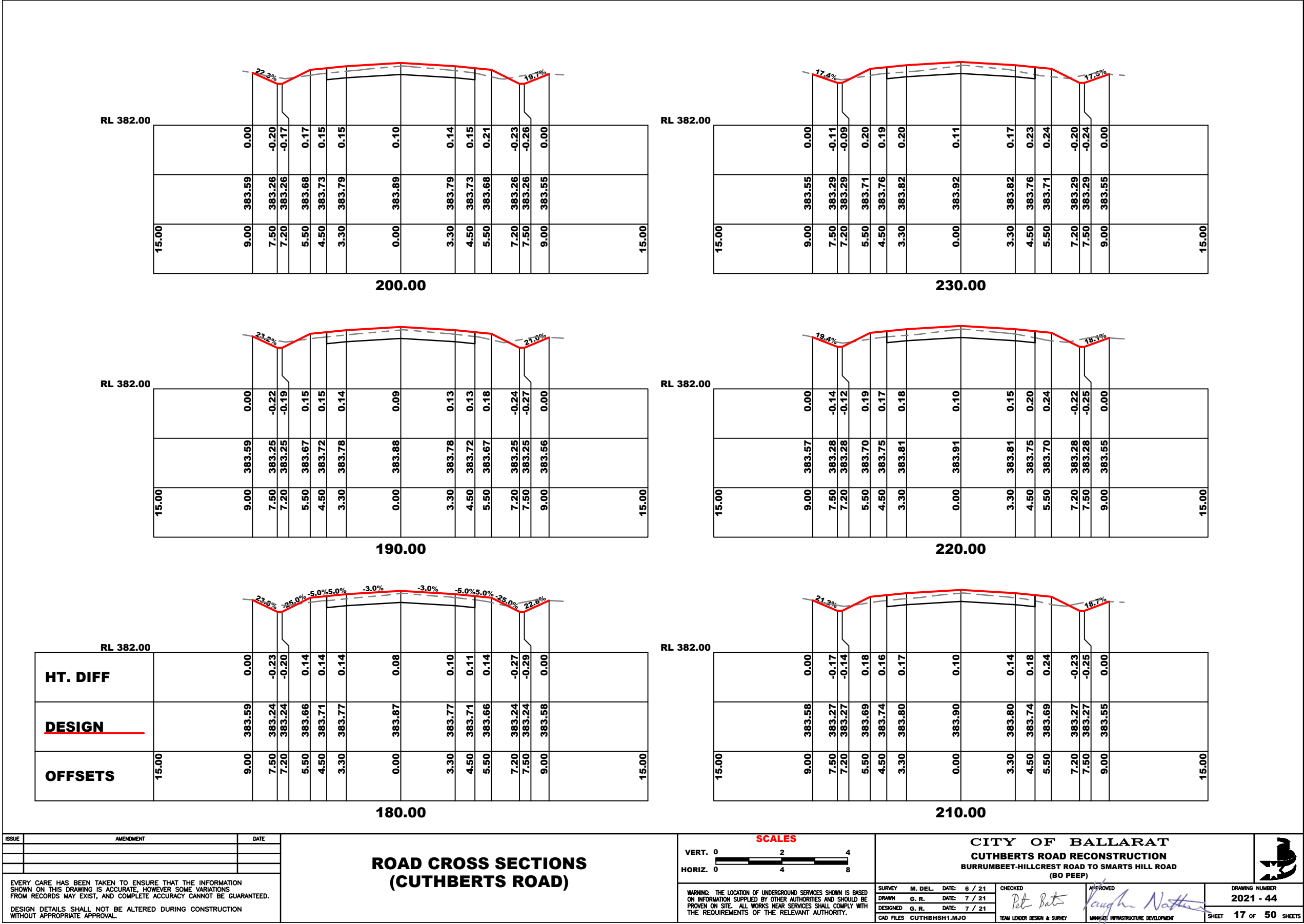
VERT. 0 2 4

HORIZ. 0 4 8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)			
SURVEY	M. DEL.	DATE: 6 / 21	CHECKED
DRAWN	G. R.	DATE: 7 / 21	 
DESIGNED	G. R.	DATE: 7 / 21	
CAD FILES	CUTHBRS41.MXD		
TEAM LEADER DESIGN & SURVEY			MANAGER INFRASTRUCTURE DEVELOPMENT

			
		DRAWING NUMBER 2021 - 44	
SHEET		16 OF	50 SHEETS



RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.57

383.28

383.28

383.70

383.75

383.81

383.91

383.81

383.75

383.70

383.28

383.28

383.55

0.00

-0.14

-0.12

0.19

0.17

0.18

0.10

0.15

0.20

0.24

-0.22

-0.25

0.00

19.4%

18.1%

220.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.58

383.27

383.27

383.69

383.74

383.80

383.90

383.80

383.74

383.69

383.27

383.27

383.55

0.00

-0.17

-0.14

0.18

0.16

0.17

0.10

0.14

0.18

0.24

-0.23

-0.25

0.00

21.2%

18.7%

210.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.59

383.24

383.24

383.66

383.71

383.77

383.87

383.77

383.71

383.66

383.24

383.24

383.58

0.00

-0.23

-0.20

0.14

0.14

0.14

0.08

0.10

0.11

0.14

-0.27

-0.29

0.00

23.0%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

22.8%

180.00

HT. DIFF

DESIGN

OFFSETS

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

-0.23

-0.20

0.14

0.14

0.14

0.08

0.10

0.11

0.14

-0.27

-0.29

0.00

ROAD CROSS SECTIONS
(CUTHBERTS ROAD)

VERT. 0 2 4
HORIZ. 0 4 8

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CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

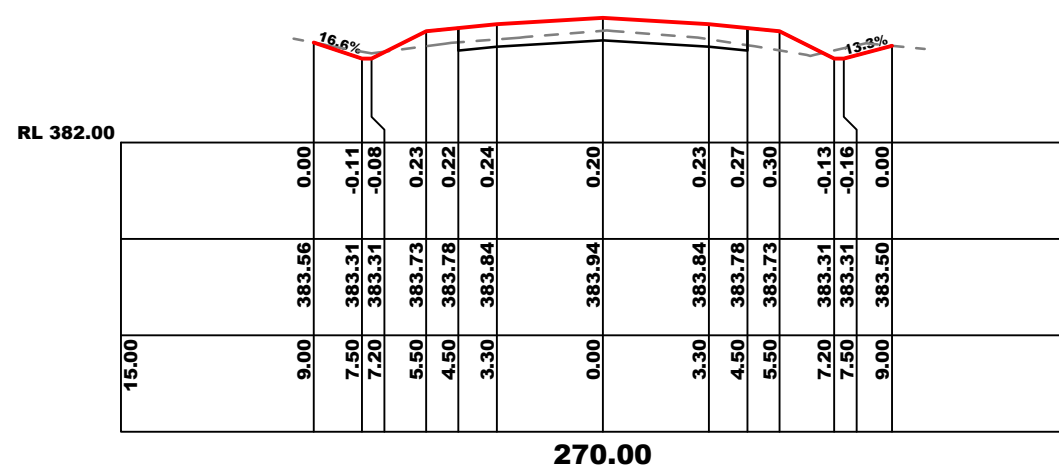
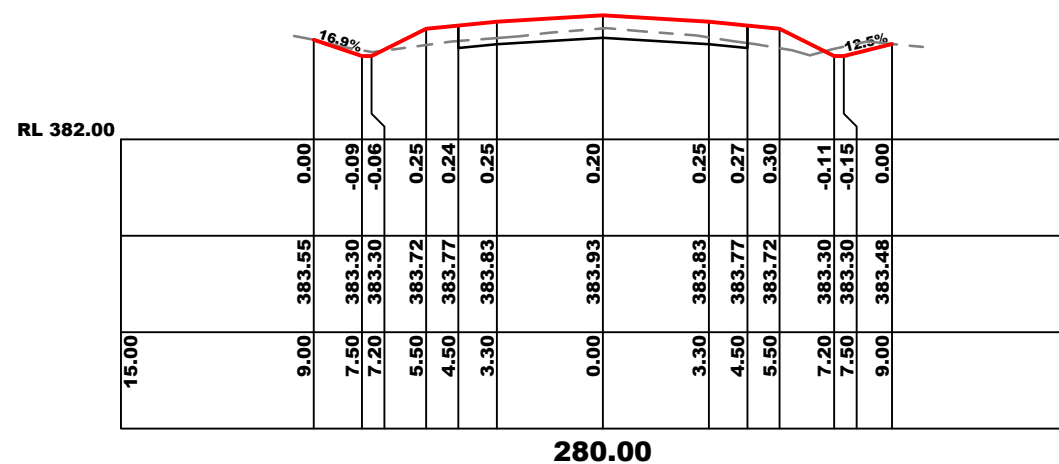
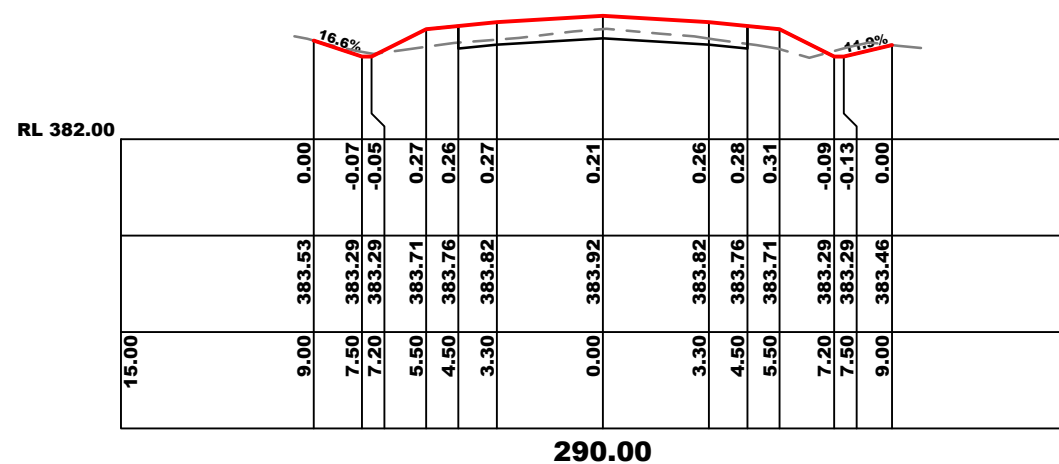
SURVEY M. DEL. DATE: 6 / 21
DRAWN G. R. DATE: 7 / 21
DESIGNED G. R. DATE: 7 / 21
CAD FILES CUTHBHS1.MJO

CHECKED
Pet Butts
TEAM LEADER DESIGN & SURVEY

APPROVED
Lauren Nether
MANAGER INFRASTRUCTURE DEVELOPMENT

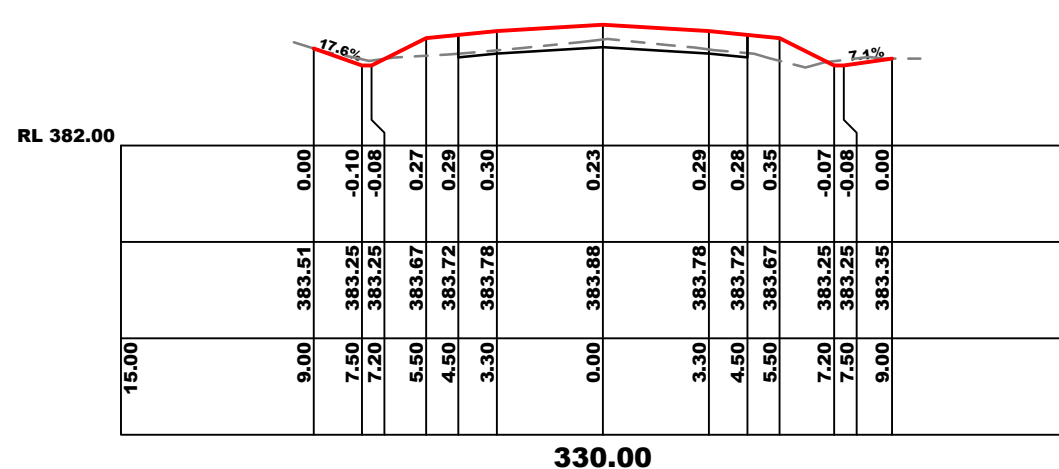
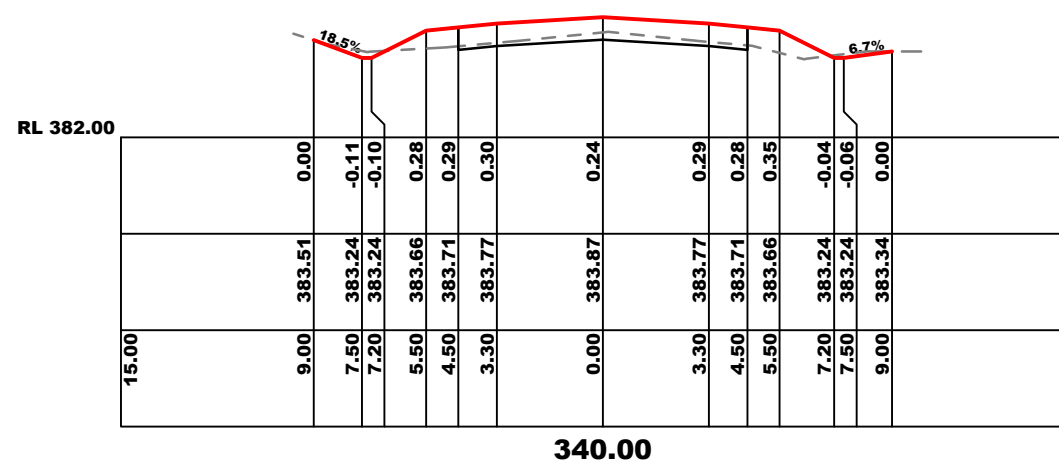
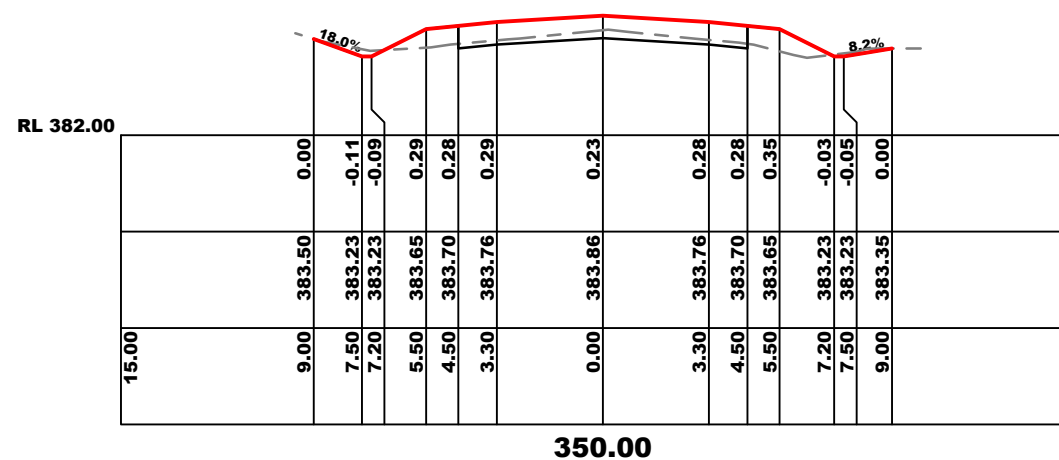
DRAWING NUMBER
2021 - 44
SHEET 17 of 50 SHEETS

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.
DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.

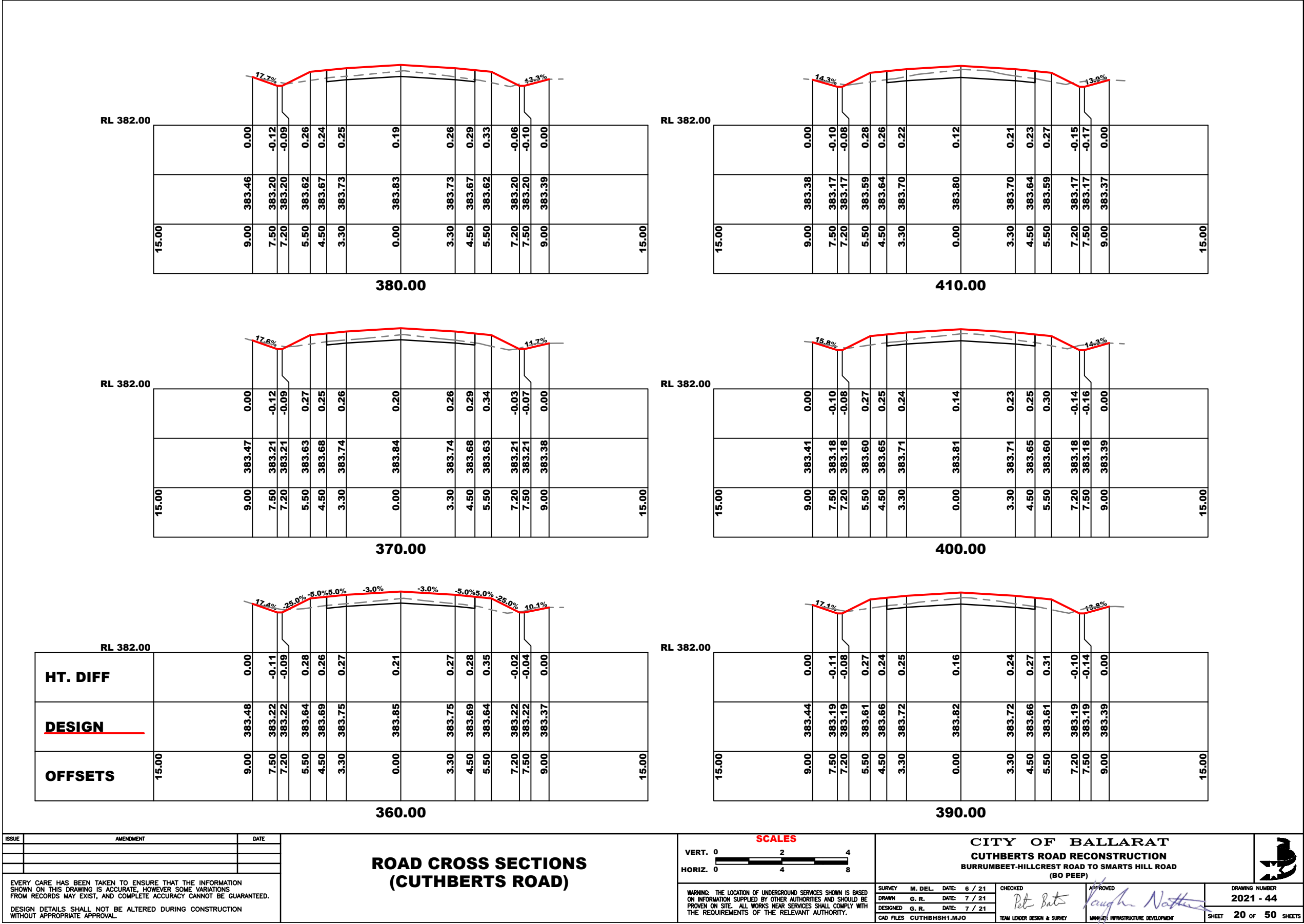


DRAWING NUMBER
2021 - 44

SHEET **18** OF **50** SH



CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)					
SURVEY M. DEL. DATE: 6 / 21		CHECKED	APPROVED	DRAWING NUMBER	
DRAWN G. R. DATE: 7 / 21				2021 - 44	
DESIGNED G. R. DATE: 7 / 21					
QAD_JULIF_CUTTHBERTS.MEM4.M.IX		TEAM LEADER DESIGN & SURVEY	MANAGER INFRASTRUCTURE DEVELOPMENT	SHEET 19 OF 50 SHEETS	



RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.47

383.21

383.21

383.63

383.68

383.74

383.84

383.74

383.68

383.63

383.21

383.21

383.38

0.00

-0.12

-0.09

0.27

0.25

0.26

0.20

0.26

0.29

0.34

-0.03

-0.07

0.00

370.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.41

383.18

383.18

383.60

383.65

383.71

383.81

383.71

383.65

383.60

383.18

383.18

383.39

0.00

-0.10

-0.08

0.27

0.25

0.24

0.14

0.23

0.25

0.30

-0.14

-0.16

0.00

400.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.48

383.22

383.22

383.64

383.69

383.75

383.85

383.75

383.69

383.64

383.22

383.22

383.37

0.00

-0.11

-0.09

0.28

0.26

0.27

0.21

0.27

0.28

0.35

-0.02

-0.04

0.00

360.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.44

383.19

383.19

383.61

383.66

383.72

383.82

383.72

383.66

383.61

383.19

383.19

383.39

0.00

-0.11

-0.08

0.27

0.24

0.25

0.16

0.24

0.27

0.31

-0.10

-0.14

0.00

390.00

HT. DIFF

DESIGN

OFFSETS

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

-0.11

-0.09

0.28

0.26

0.27

0.21

0.27

0.28

0.35

-0.02

-0.04

0.00

360.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.44

383.19

383.19

383.61

383.66

383.72

383.82

383.72

383.66

383.61

383.19

383.19

383.39

0.00

-0.11

-0.08

0.27

0.24

0.25

0.16

0.24

0.27

0.31

-0.10

-0.14

0.00

390.00

17.7%

14.3%

17.6%

15.8%

17.4%

17.1%

13.3%

13.8%

380.00

410.00

370.00

400.00

360.00

390.00

ISSUE

AMENDMENT

DATE

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.

ROAD CROSS SECTIONS
(CUTHBERTS ROAD)

VERT. 0 2 4

HORIZ. 0 4 8

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CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

CHECKED

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

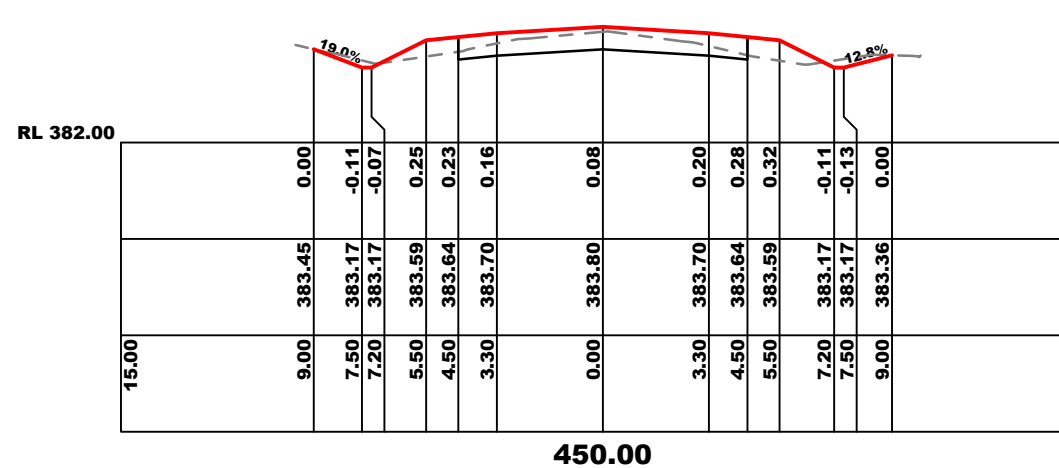
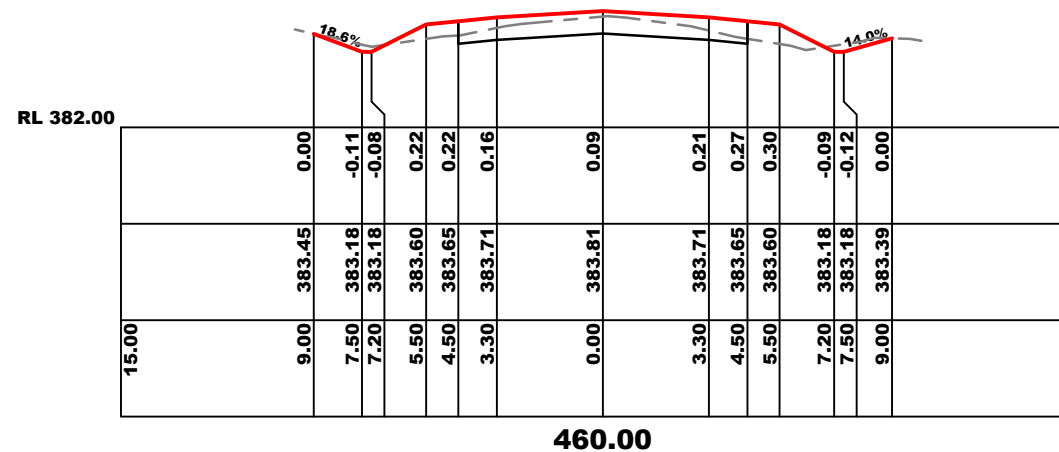
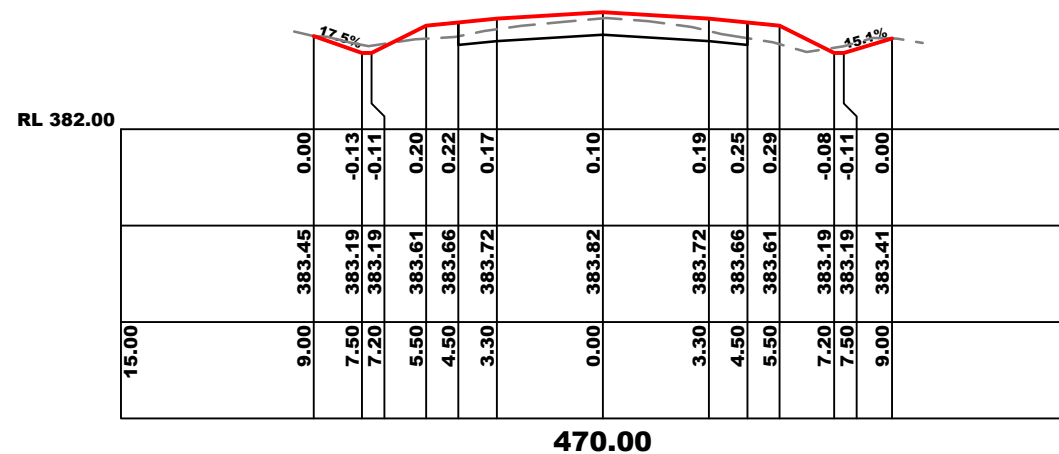
APPROVED

TEAM LEADER DESIGN & SURVEY

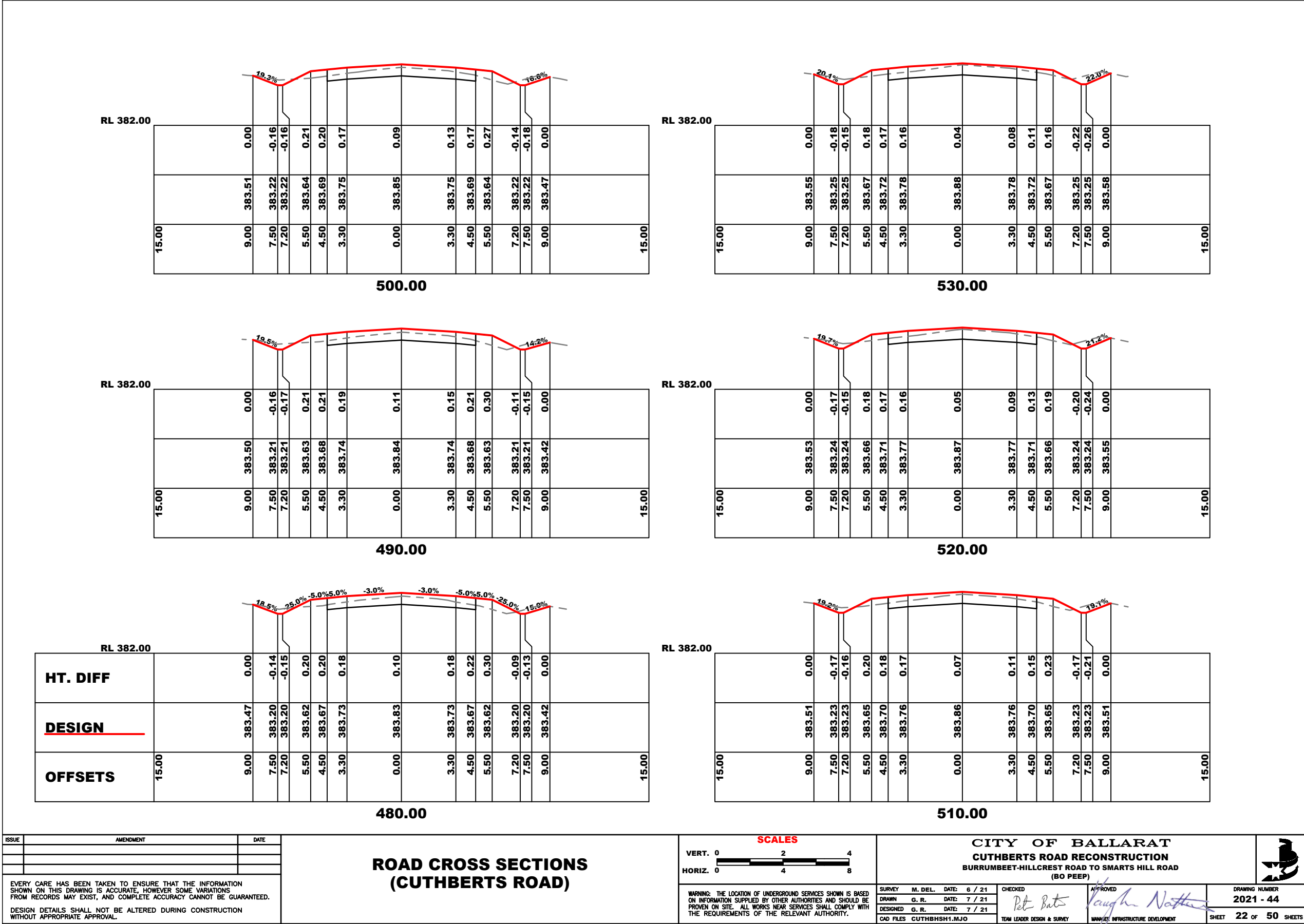
WWW.CIT INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER
2021 - 44

SHEET 20 of 50 SHEETS



CITY OF BALLARAT													
CUTHBERTS ROAD RECONSTRUCTION													
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD													
(BO PEEP)													
SURVEY M. DEL. DATE: 6 / 21			CHECKED		APPROVED			DRAWING NUMBER					
DRAWN G. R. DATE: 7 / 21								2021 - 44					
DESIGNED G. R. DATE: 7 / 21			TEAM LEADER DESIGN & SURVEY		MANAGER INFRASTRUCTURE DESIGN DEPARTMENT			SHEET					
QAD_01567_CUTTHBERTS.MEM4.MA10								21 OF 50 SHEETS					
QAD_01567_CUTTHBERTS.MEM4.MA10										SHEET		21 OF 50 SHEETS	



RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.47

383.20

383.20

383.62

383.67

383.73

383.83

383.73

383.67

383.62

383.20

383.20

383.42

0.00

-0.14

-0.15

0.20

0.20

0.18

0.10

0.18

0.22

0.30

-0.09

-0.13

0.00

480.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.51

383.23

383.23

383.65

383.70

383.76

383.86

383.76

383.70

383.65

383.23

383.23

383.51

0.00

-0.17

-0.16

0.20

0.18

0.17

0.07

0.11

0.15

0.23

-0.17

-0.21

0.00

510.00

HT. DIFF

DESIGN

OFFSETS

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

18.5%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

15.0%

ROAD CROSS SECTIONS
(CUTHBERTS ROAD)

VERT. 0 2 4
HORIZ. 0 4 8

CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

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SURVEY M. DEL. DATE: 6 / 21

DRAWN G. R. DATE: 7 / 21

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

CHECKED

APPROVED

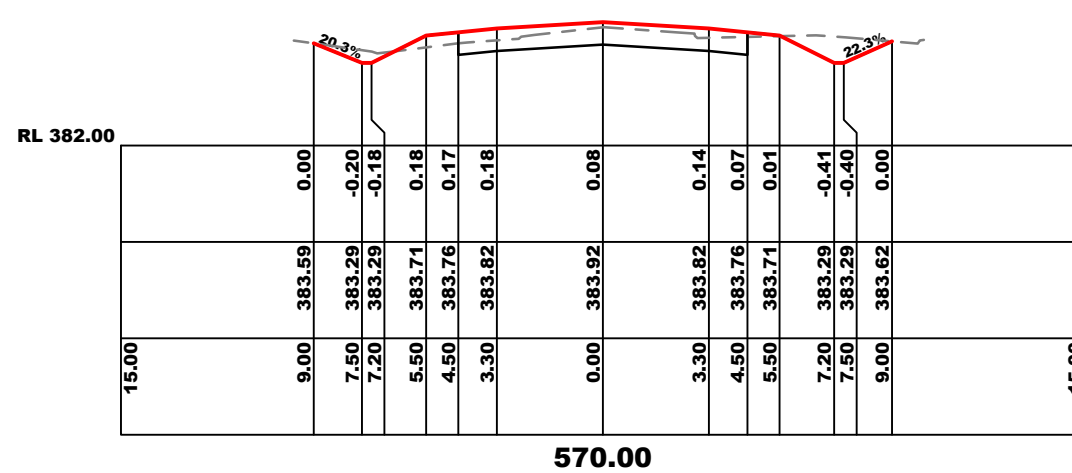
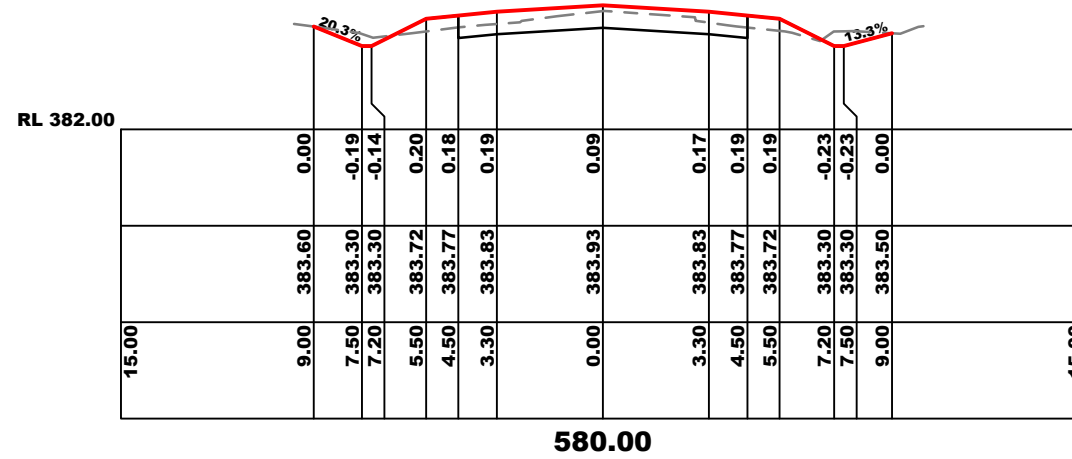
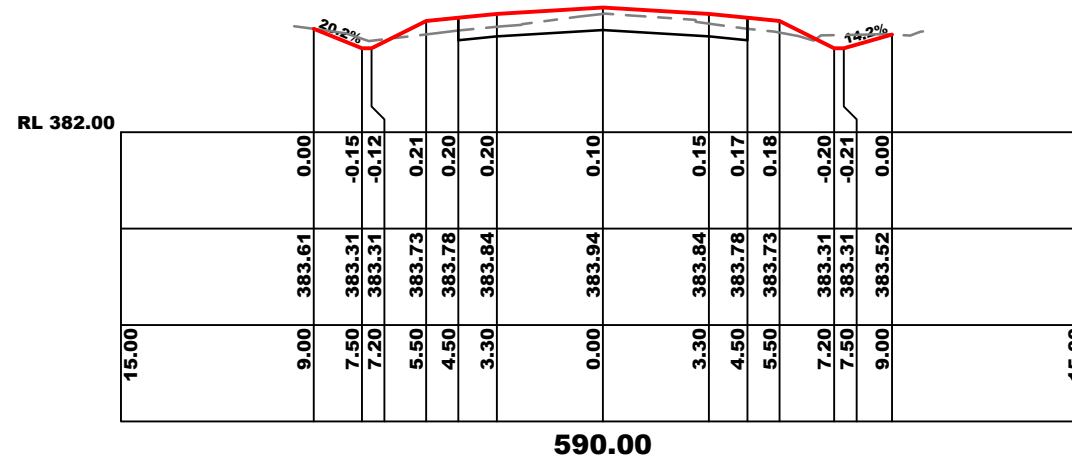
TEAM LEADER DESIGN & SURVEY

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER
2021 - 44

SHEET 22 of 50 SHEETS

365



ROAD CROSS SECTIONS

ROAD CROSS SECTIONS (CUTHBERTS ROAD)

SCALES

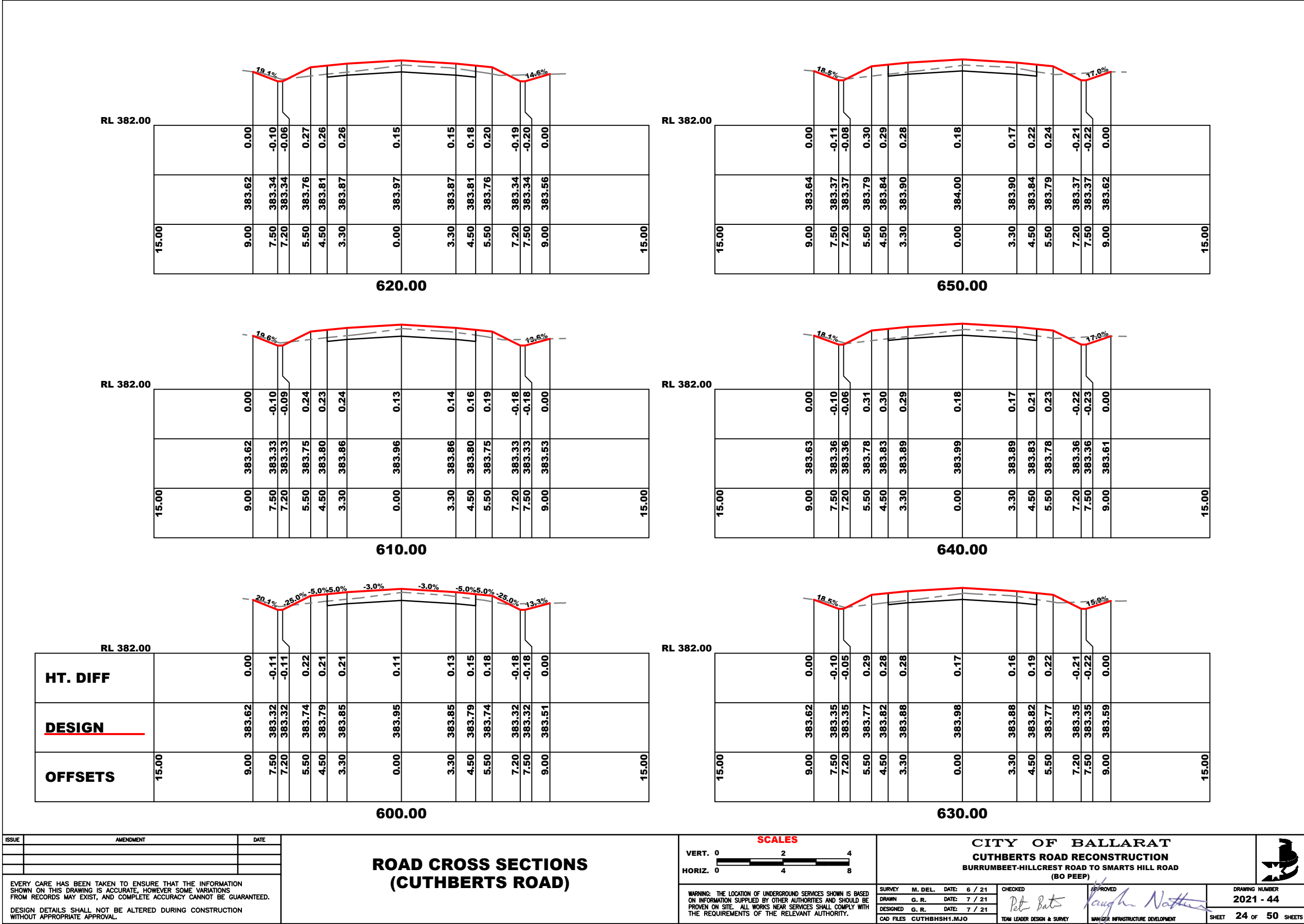
VERT. 0 2 4

HORIZ. 0 4 8

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CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)				
SURVEY M. DEL. DATE: 6 / 21 DRAWN G. R. DATE: 7 / 21 DESIGNED G. R. DATE: 7 / 21 CAD FILES CUTHBRS4.MXD	CHECKED <i>Pet Buta</i> TEAM LEADER DESIGN & SURVEY	APPROVED <i>Kaughn Natter</i> MAYORC MUNICIPALITY DEVELOPMENT	DRAWN 202 SHEET 23	





RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.63

383.36

383.36

383.78

383.83

383.89

383.99

383.89

383.83

383.78

383.36

383.36

383.61

0.00

-0.10

-0.06

0.31

0.30

0.29

0.18

0.17

0.21

0.23

-0.22

-0.23

0.00

640.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.62

383.32

383.32

383.74

383.79

383.85

383.95

383.85

383.79

383.74

383.32

383.32

383.51

0.00

-0.11

-0.11

0.22

0.21

0.21

0.11

0.13

0.15

0.18

-0.18

-0.18

0.00

600.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.62

383.35

383.35

383.77

383.82

383.88

383.98

383.88

383.82

383.77

383.35

383.35

383.59

0.00

-0.10

-0.05

0.29

0.28

0.28

0.17

0.16

0.19

0.22

-0.21

-0.22

0.00

630.00

HT. DIFF

DESIGN

OFFSETS

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

20.1%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

13.3%

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

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CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

CHECKED

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

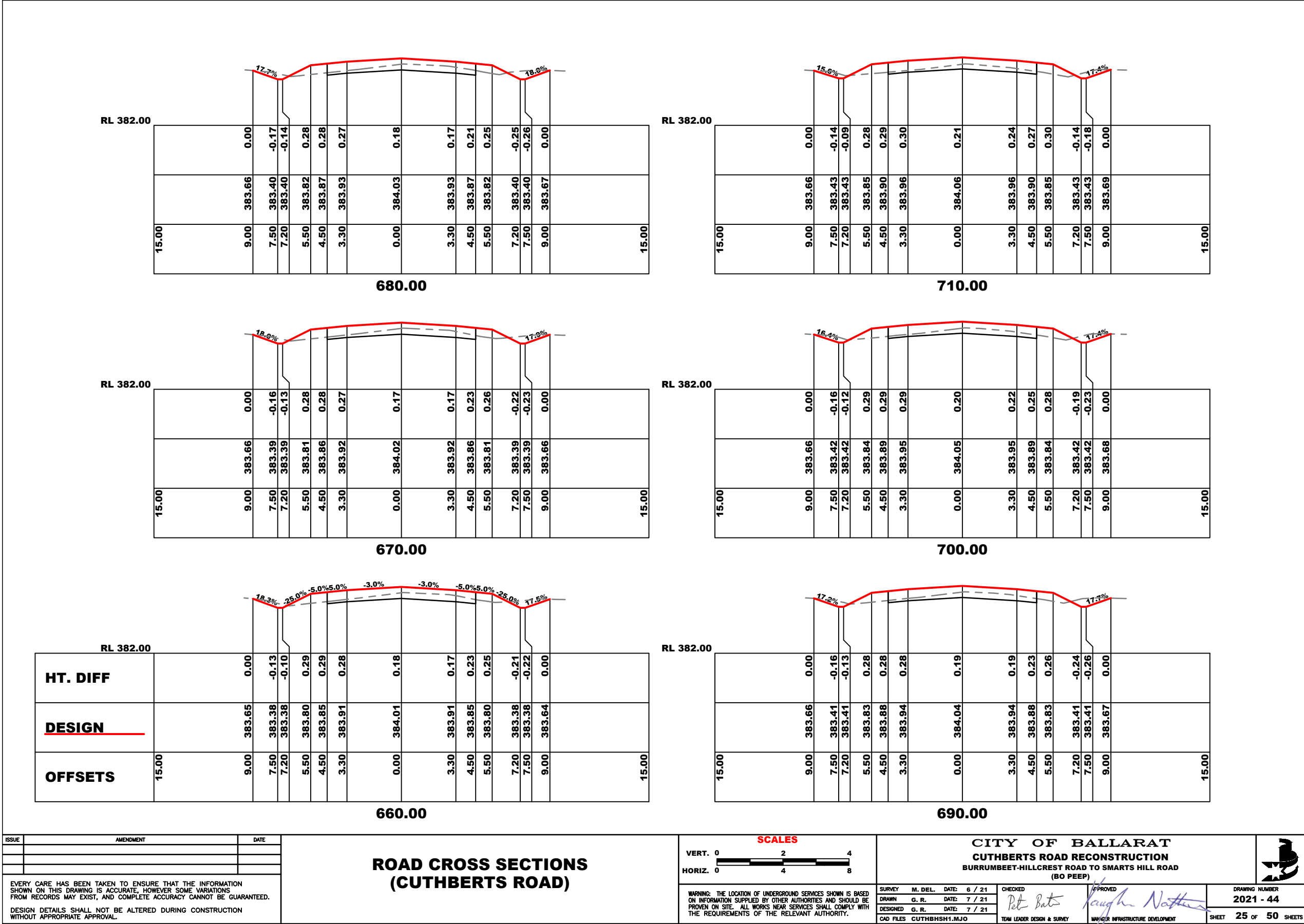
TEAM LEADER DESIGN & SURVEY

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER

2021 - 44

SHEET 24 of 50 SHEETS



RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.66

383.42

383.42

383.84

383.89

383.95

384.05

383.95

383.89

383.84

383.42

383.42

383.68

0.00

-0.16

-0.12

0.29

0.29

0.29

0.20

0.22

0.25

0.28

-0.19

-0.23

0.00

16.4%

17.4%

700.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.65

383.38

383.38

383.80

383.85

383.91

384.01

383.91

383.85

383.80

383.38

383.38

383.64

0.00

-0.13

-0.10

0.29

0.29

0.28

0.18

0.17

0.23

0.25

-0.21

-0.22

0.00

18.3%

25.0%

-5.0%

5.0%

-3.0%

-3.0%

-5.0%

5.0%

-25.0%

17.5%

660.00

RL 382.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

383.66

383.41

383.41

383.83

383.88

383.94

384.04

383.94

383.88

383.83

383.41

383.41

383.67

0.00

-0.16

-0.13

0.28

0.28

0.28

0.19

0.19

0.23

0.26

-0.24

-0.26

0.00

17.2%

17.7%

690.00

HT. DIFF

DESIGN

OFFSETS

15.00	9.00	7.50	7.20	5.50	4.50	3.30	0.00	3.30	4.50	5.50	7.20	7.50	9.00	15.00
	383.65	383.38	383.38	383.80	383.85	383.91	384.01	383.91	383.85	383.80	383.38	383.38	383.64	
	0.00	-0.13	-0.10	0.29	0.29	0.28	0.18	0.17	0.23	0.25	-0.21	-0.22	0.00	

ROAD CROSS SECTIONS
(CUTHBERTS ROAD)

VERT. 0 2 4
HORIZ. 0 4 8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

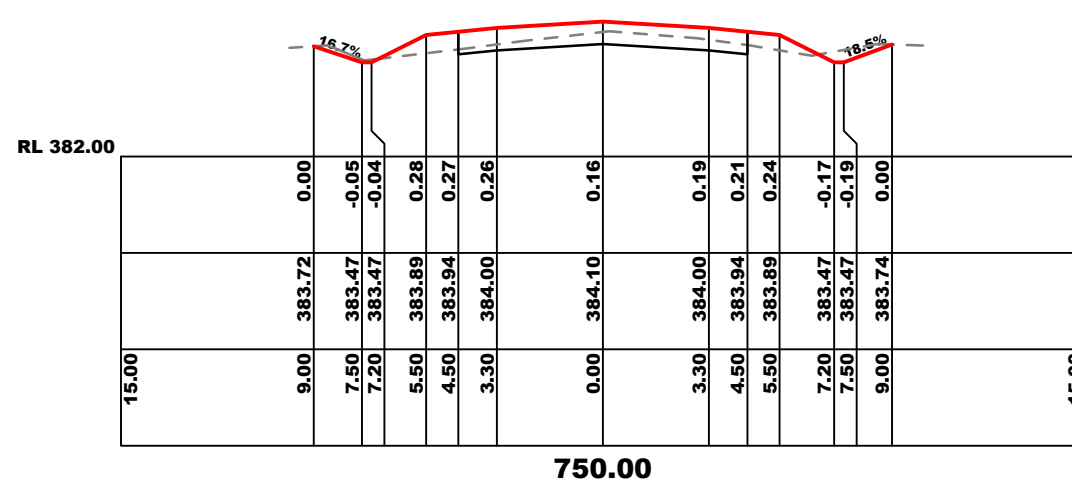
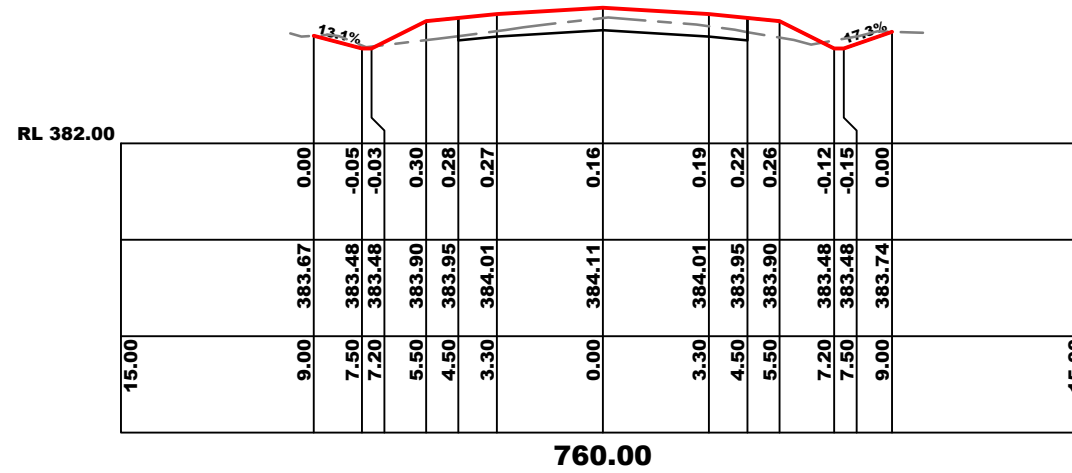
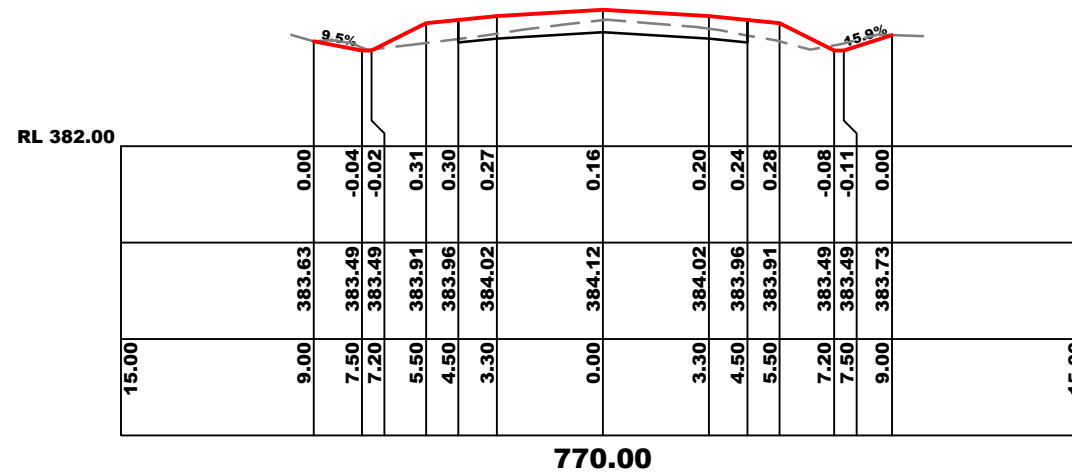
CITY OF BALLARAT
CUTHBERTS ROAD RECONSTRUCTION
BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD
(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21
DRAWN G. R. DATE: 7 / 21
DESIGNED G. R. DATE: 7 / 21
CAD FILES CUTHBHS1.MJO

CHECKED
APPROVED
TEAM LEADER DESIGN & SURVEY
MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER
2021 - 44
SHEET 25 of 50 SHEETS

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.
DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.



EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.

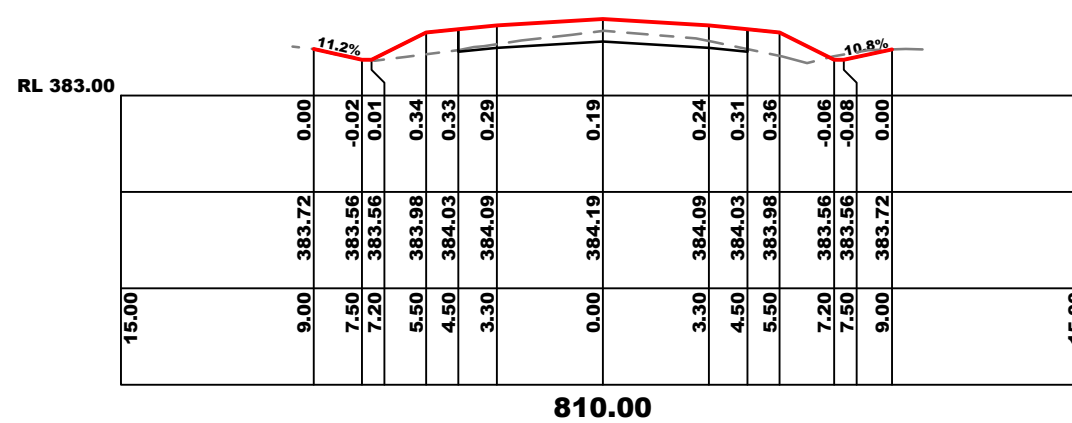
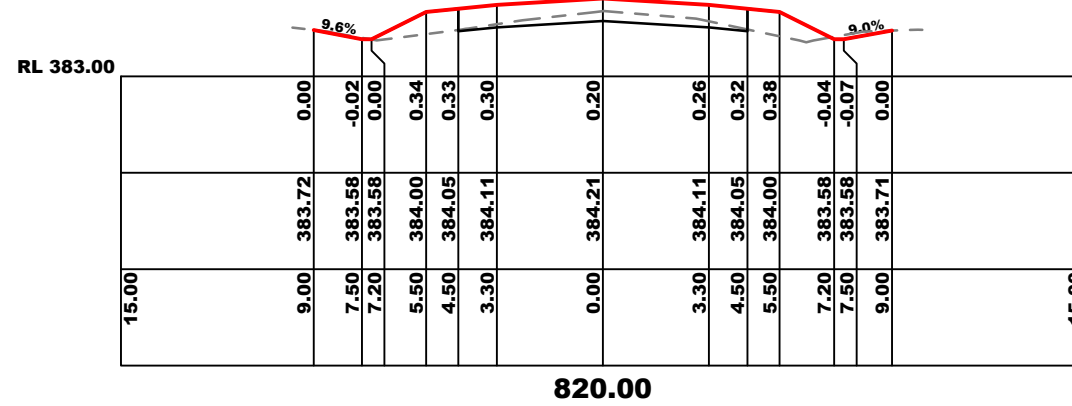
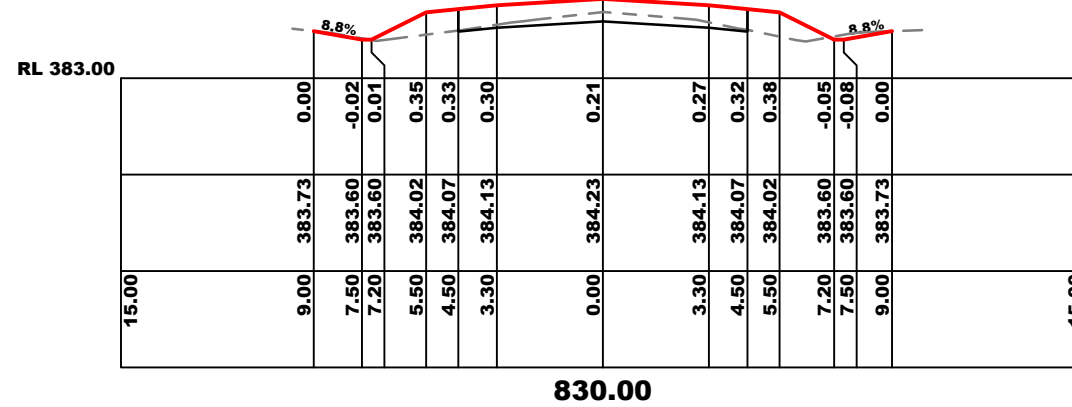
SCALES

VERT.	0	2	4
HORIZ.	0	4	8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.



SURVEY M. DEL. DATE: 6 / 21	CHECKED <i>Pete Bates</i>	APPROVED <i>Laughn Nathan</i>	DRAWING NUMBER 2021 - 44
DRAWN G. R. DATE: 7 / 21			
DESIGNED G. R. DATE: 7 / 21			
CAD FILES CUTHBERTSH1.MJL0	TEAM LEAD/ DESIGN & SURVEY	MANAGER INFRASTRUCTURE DEVELOPMENT	SHEET 26 OF 50 SHEETS



ROAD CROSS SECTIONS (CUTHBERTS ROAD)

SCALES

VERT. 0 2 4

HORIZ. 0 4 8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

SCALES

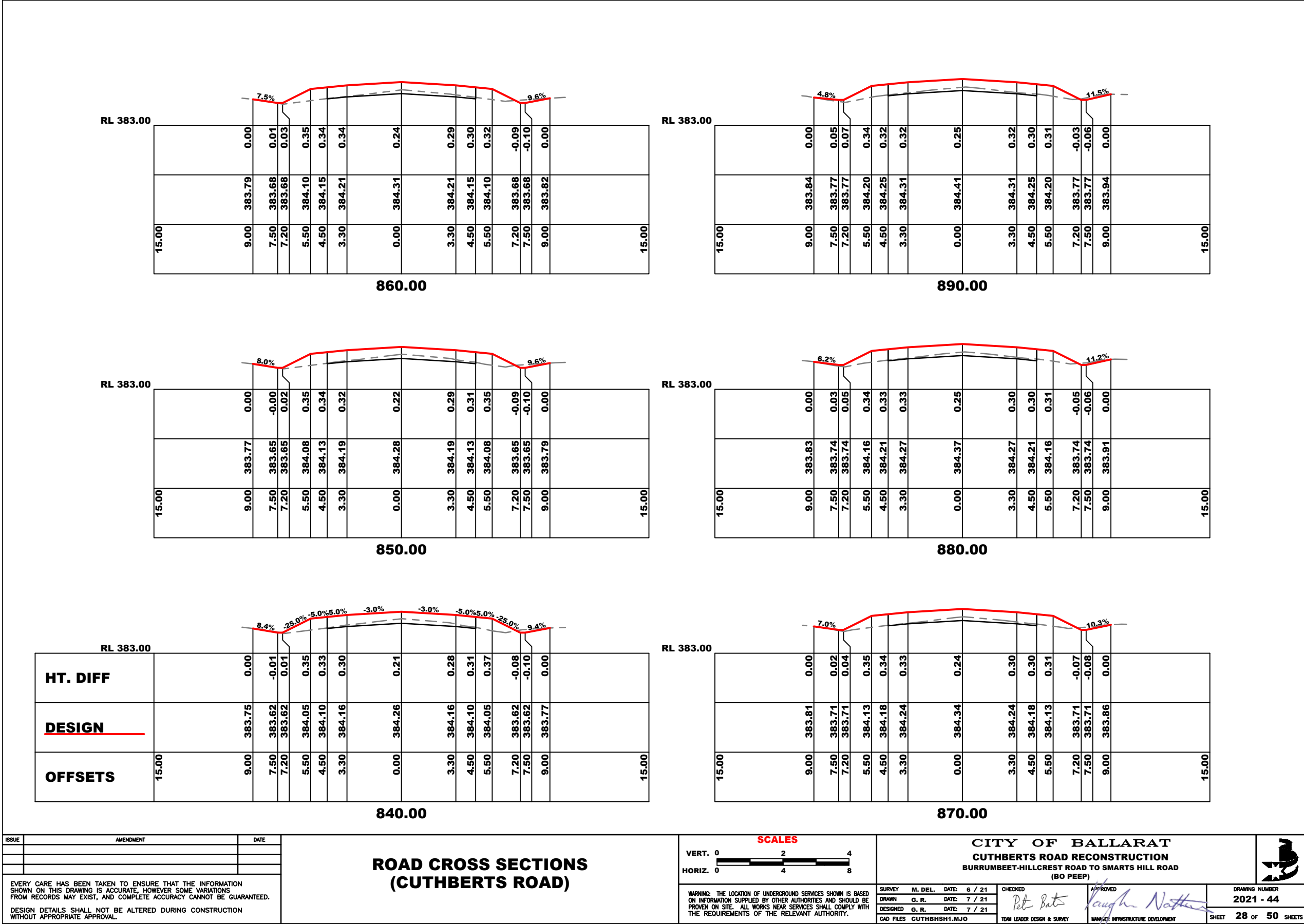
VERT. 0 2 4

HORIZ. 0 4 8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)														
<table border="1"> <tr> <td>SURVEY</td> <td>M. DEL.</td> <td>DATE: 6 / 21</td> </tr> <tr> <td>DRAWN</td> <td>G. R.</td> <td>DATE: 7 / 21</td> </tr> <tr> <td>DESIGNED</td> <td>G. R.</td> <td>DATE: 7 / 21</td> </tr> <tr> <td colspan="3">CAD FILES CUTHBHSH1.MJO</td> </tr> </table>	SURVEY	M. DEL.	DATE: 6 / 21	DRAWN	G. R.	DATE: 7 / 21	DESIGNED	G. R.	DATE: 7 / 21	CAD FILES CUTHBHSH1.MJO			CHECKED <i>Pet Bates</i> TEAM LEADER DESIGN & SURVEY	APPROVED <i>Naughton</i> MANAGER INFRASTRUCTURE DEVELOPMENT
SURVEY	M. DEL.	DATE: 6 / 21												
DRAWN	G. R.	DATE: 7 / 21												
DESIGNED	G. R.	DATE: 7 / 21												
CAD FILES CUTHBHSH1.MJO														

			
		DRAWING NUMBER	
		2021 - 44	
SHEET		27 OF	50 SHEETS



RL 383.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

383.83

383.74

383.74

384.16

384.21

384.27

384.37

384.27

384.21

384.16

383.74

383.74

383.91

0.03

0.05

0.34

0.33

0.33

0.25

0.30

0.30

0.31

-0.05

-0.06

0.00

6.2%

11.2%

880.00

RL 383.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

383.75

383.62

383.62

384.05

384.10

384.16

384.26

384.16

384.10

384.05

383.62

383.62

383.77

0.00

-0.01

0.01

0.35

0.33

0.30

0.21

0.28

0.31

0.37

-0.08

-0.10

0.00

8.4%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

9.4%

840.00

RL 383.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

383.81

383.71

383.71

384.13

384.18

384.24

384.34

384.24

384.18

384.13

383.71

383.71

383.86

0.02

0.04

0.35

0.34

0.33

0.24

0.30

0.30

0.31

-0.07

-0.08

0.00

7.0%

10.3%

870.00

HT. DIFF

DESIGN

OFFSETS

15.00	9.00	7.50	7.20	5.50	4.50	3.30	0.00	3.30	4.50	5.50	7.20	7.50	9.00	15.00
0.00	383.75	383.62	383.62	384.05	384.10	384.16	384.26	384.16	384.10	384.05	383.62	383.62	383.77	0.00
		-0.01	0.01	0.35	0.33	0.30	0.21	0.28	0.31	0.37	-0.08	-0.10	0.00	

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD

(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

DRAWN G. R. DATE: 7 / 21

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

CHECKED

APPROVED

TEAM LEADER DESIGN & SURVEY

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER

2021 - 44

SHEET

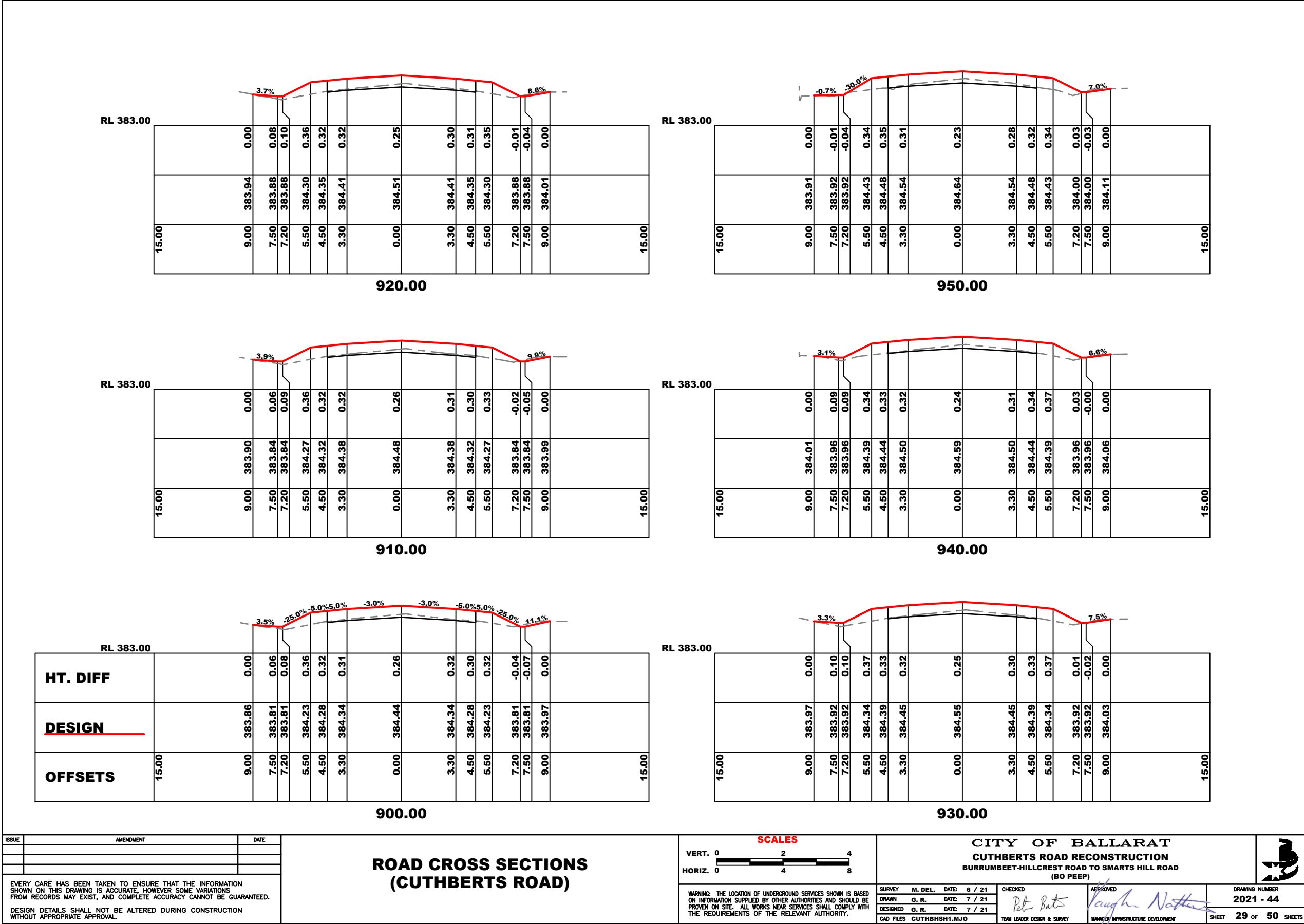
28 of 50 SHEETS

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

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ROAD CROSS SECTIONS

(CUTHBERTS ROAD)



RL 383.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

384.01

383.96

383.96

384.39

384.44

384.50

384.59

384.50

384.44

384.39

383.96

383.96

384.06

0.09

0.09

0.34

0.33

0.32

0.24

0.31

0.34

0.37

0.03

-0.00

0.00

3.1%

6.6%

940.00

RL 383.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

383.86

383.81

383.81

384.23

384.28

384.34

384.44

384.34

384.28

384.23

383.81

383.81

383.97

0.06

0.08

0.36

0.32

0.31

0.26

0.32

0.30

0.32

-0.04

-0.07

0.00

3.5%

-25.0%

-5.0%

-5.0%

-3.0%

-3.0%

-5.0%

-5.0%

-25.0%

11.1%

900.00

RL 383.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

383.97

383.92

383.92

384.34

384.39

384.45

384.55

384.45

384.39

384.34

383.92

383.92

384.03

0.10

0.10

0.37

0.33

0.32

0.25

0.30

0.33

0.37

0.01

-0.02

0.00

3.3%

7.5%

930.00

HT. DIFF

DESIGN

OFFSETS

15.00	9.00	7.50	7.20	5.50	4.50	3.30	0.00	3.30	4.50	5.50	7.20	7.50	9.00	15.00
0.00	0.06	0.08	0.36	0.32	0.31	0.26	0.32	0.30	0.32	-0.04	-0.07	0.00		

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD

(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

DRAWN G. R. DATE: 7 / 21

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

CHECKED

APPROVED

TEAM LEADER DESIGN & SURVEY

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER

2021 - 44

SHEET

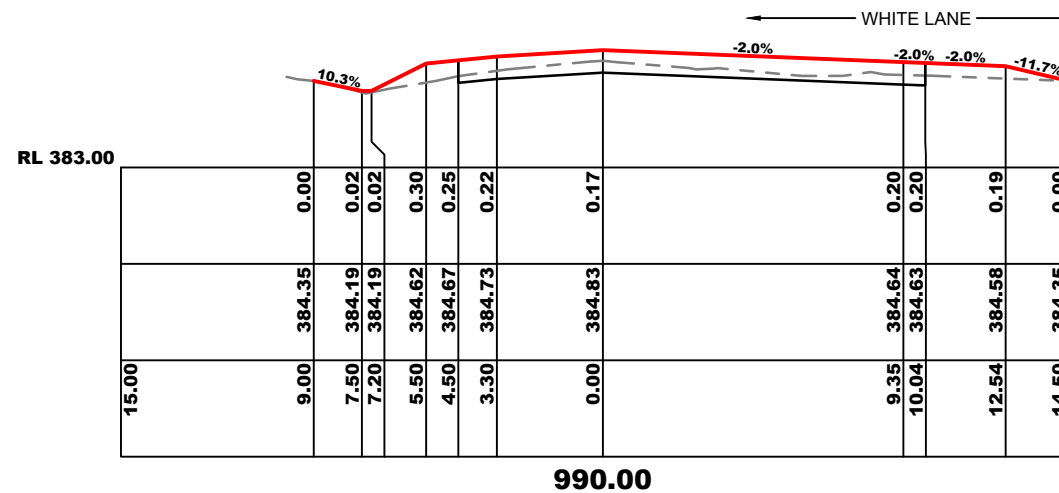
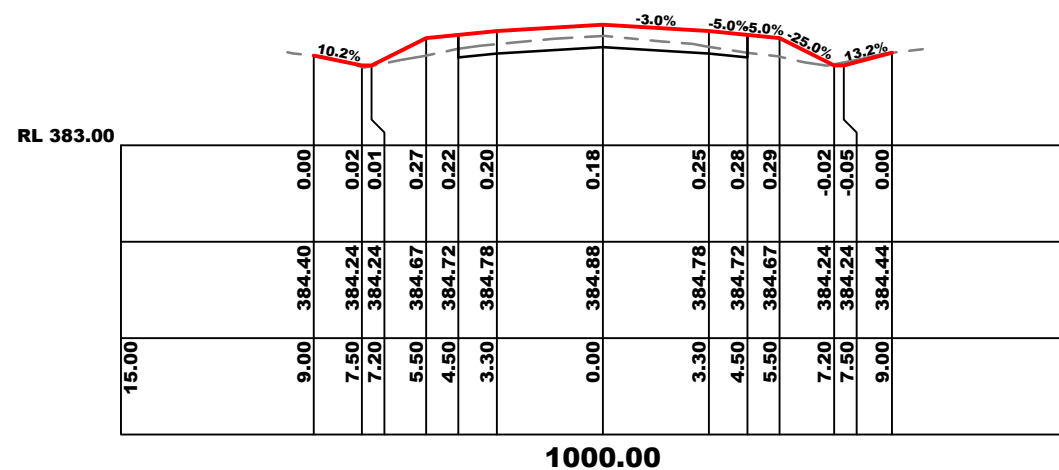
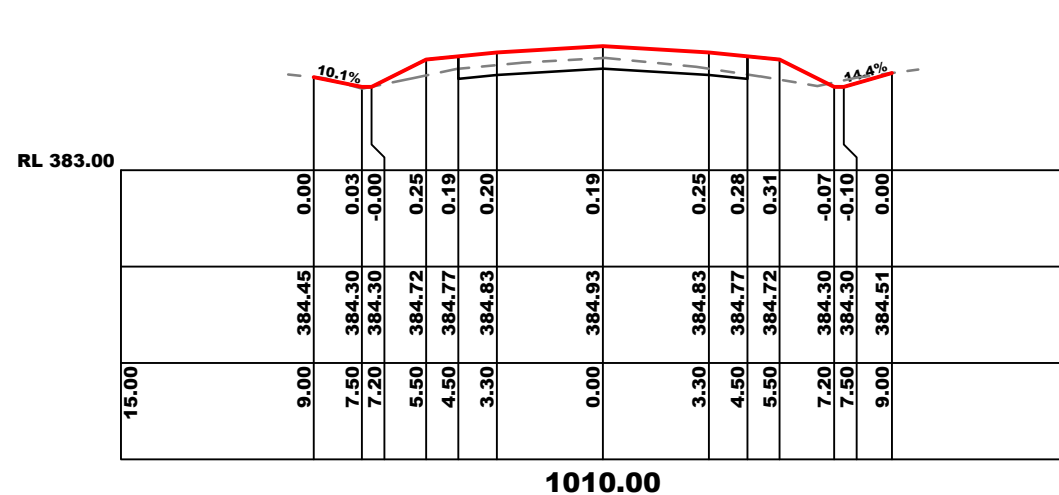
29 of 50 SHEETS

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

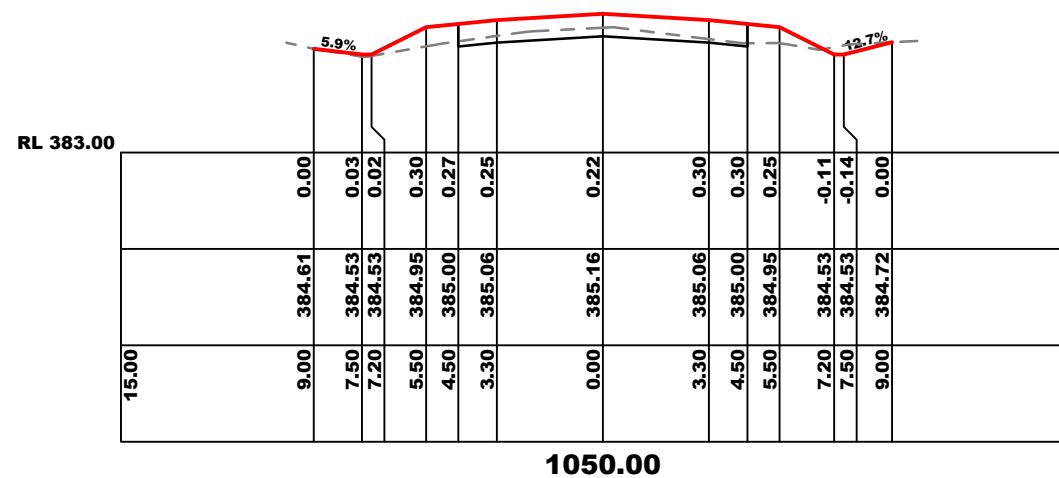
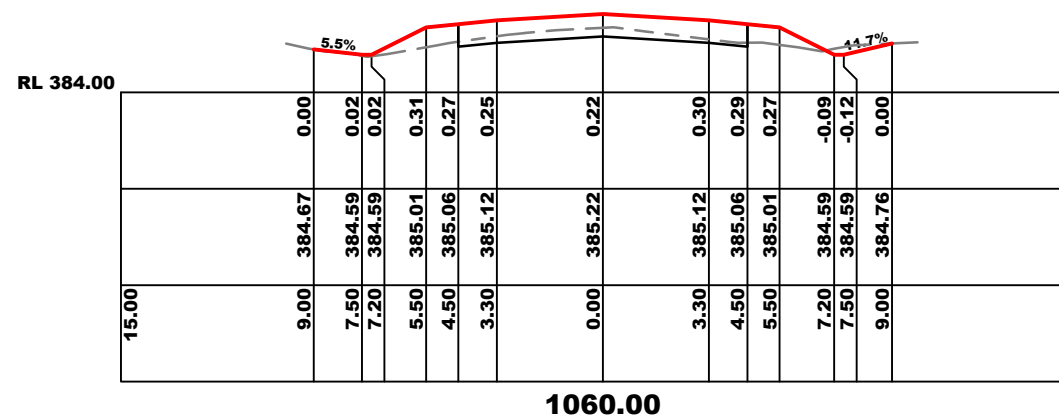
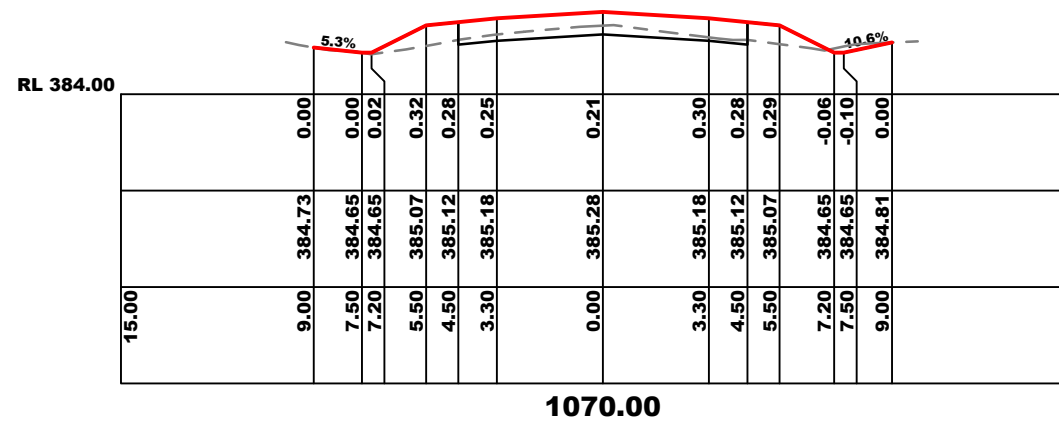
DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.

ROAD CROSS SECTIONS

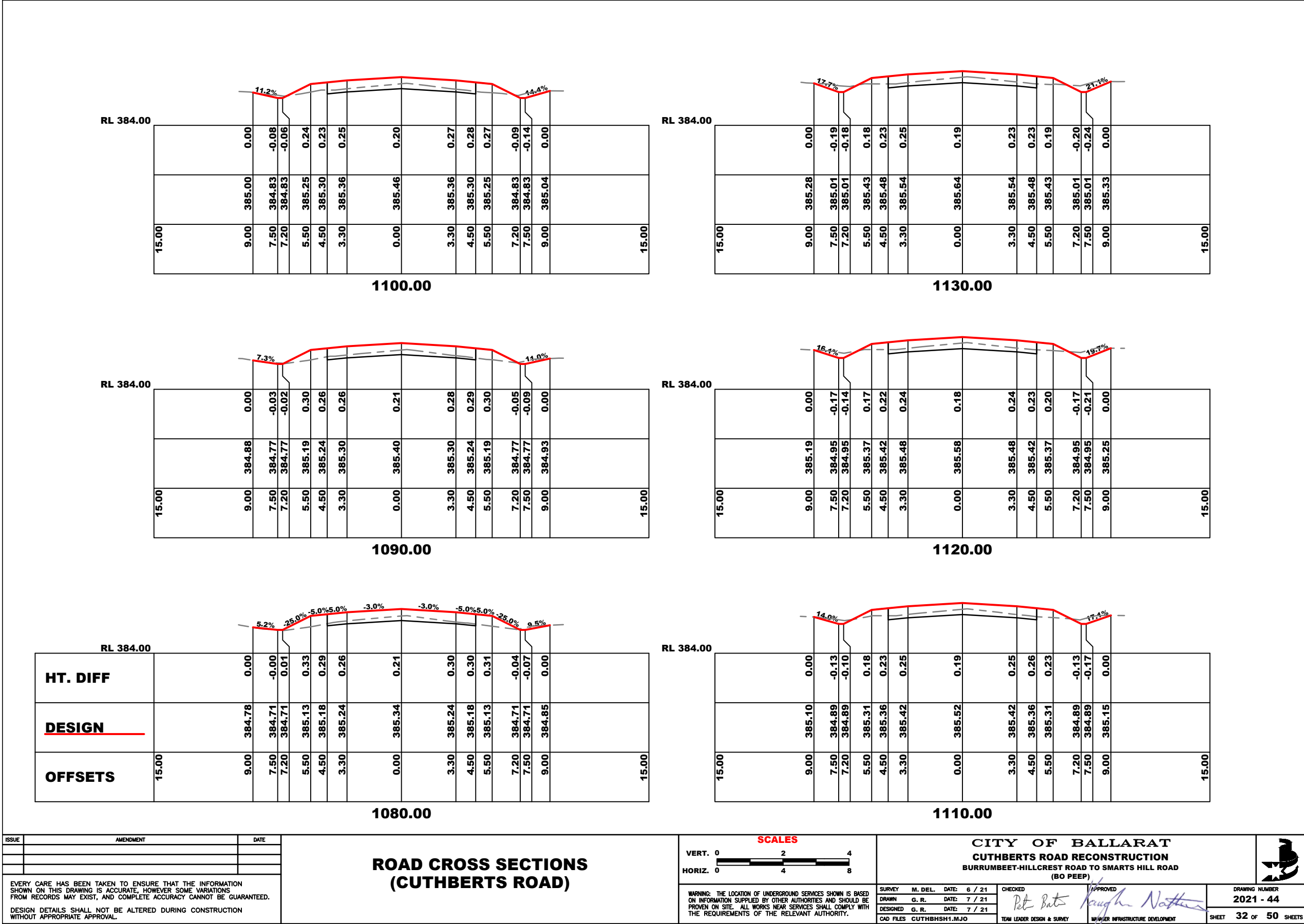
(CUTHBERTS ROAD)

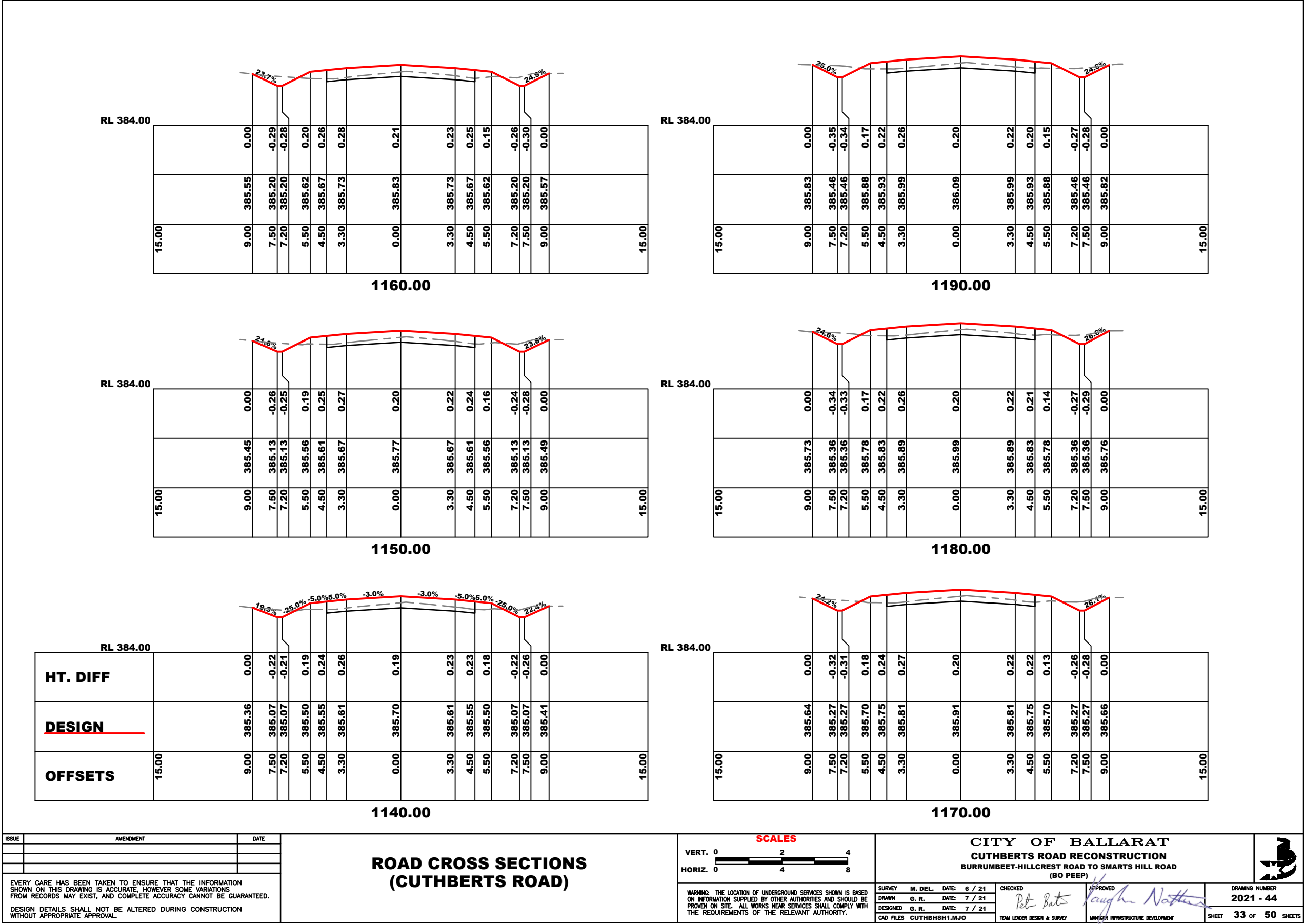


CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)					
SURVEY M. DEL. DATE: 6 / 21		CHECKED	APPROVED	DRAWING NUMBER	
DRAWN G. R. DATE: 7 / 21		Pete Bate	Kaughn Nathan	2021 - 44	
DESIGNED G. R. DATE: 7 / 21					
QUAL. ENG. CLT2MRMEM4.M10		TEAM LEADER DESIGN & SURVEY	MANAGER, INFRASTRUCTURE DEVELOPMENT	SHEET 30 OF 50 SHEETS	



CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)					
SURVEY M. DEL. DATE: 6 / 21		CHECKED		DRAWING NUMBER	
DRAWN G. R. DATE: 7 / 21		<i>P. B. Bates</i>		2021 - 44	
DESIGNED G. R. DATE: 7 / 21		<i>Pauline Northey</i>		SHEET 31 of 50 SHEETS	
CAD FILE: CUTHBERTS.M4.M.IX		TEAM LEADER DESIGN & SURVEY		MUNICIPAL ENGINEERING & PLANNING	





RL 384.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

385.45

385.13

385.13

385.56

385.61

385.67

385.77

385.67

385.61

385.56

385.13

385.13

385.49

0.00

-0.26

-0.25

0.19

0.25

0.27

0.20

0.22

0.24

0.16

-0.24

-0.28

0.00

24.5%

23.8%

1150.00

RL 384.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

385.73

385.36

385.36

385.78

385.83

385.89

385.99

385.89

385.83

385.78

385.36

385.36

385.76

0.00

-0.34

-0.33

0.17

0.22

0.26

0.20

0.22

0.21

0.14

-0.27

-0.29

0.00

24.6%

25.5%

1180.00

RL 384.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

385.36

385.07

385.07

385.50

385.55

385.61

385.70

385.61

385.55

385.50

385.07

385.07

385.41

0.00

-0.22

-0.21

0.19

0.24

0.26

0.19

0.23

0.23

0.18

-0.22

-0.26

0.00

19.3%

25.0%

-5.0%

5.0%

-3.0%

-3.0%

-5.0%

5.0%

-25.0%

27.4%

1140.00

RL 384.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

385.64

385.27

385.27

385.70

385.75

385.81

385.91

385.81

385.75

385.70

385.27

385.27

385.66

0.00

-0.32

-0.31

0.18

0.24

0.27

0.20

0.22

0.22

0.13

-0.26

-0.28

0.00

24.2%

25.1%

1170.00

HT. DIFF

DESIGN

OFFSETS

15.00	9.00	7.50	7.20	5.50	4.50	3.30	0.00	3.30	4.50	5.50	7.20	7.50	9.00	15.00
	385.36	385.07	385.07	385.50	385.55	385.61	385.70	385.61	385.55	385.50	385.07	385.07	385.41	
	0.00	-0.22	-0.21	0.19	0.24	0.26	0.19	0.23	0.23	0.18	-0.22	-0.26	0.00	

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

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CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD

(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

DRAWN G. R. DATE: 7 / 21

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

CHECKED

APPROVED

TEAM LEADER DESIGN & SURVEY

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER

2021 - 44

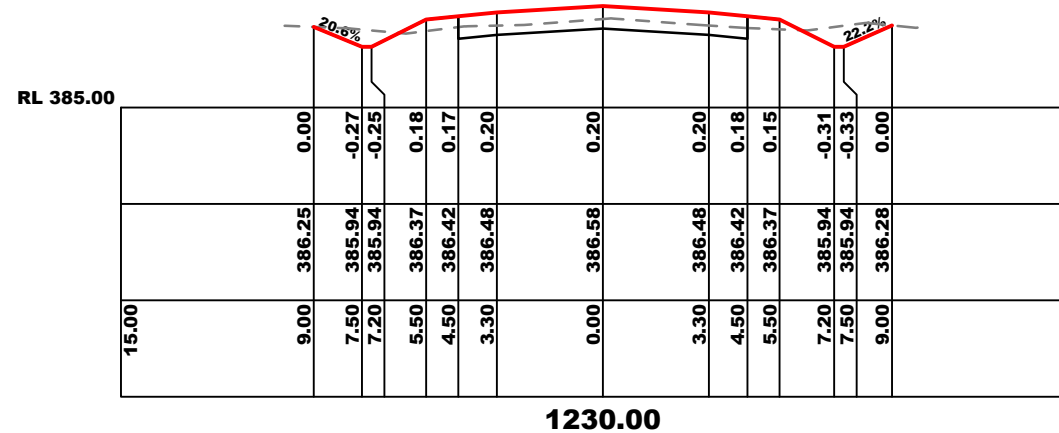
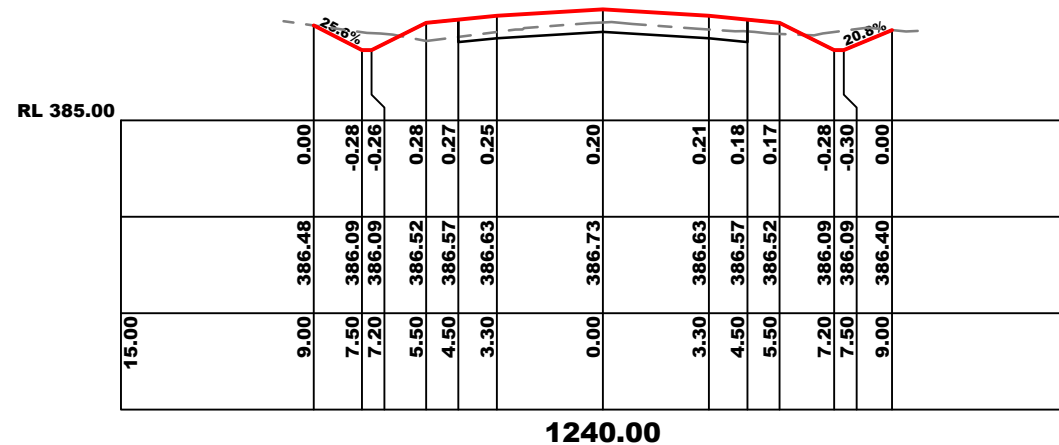
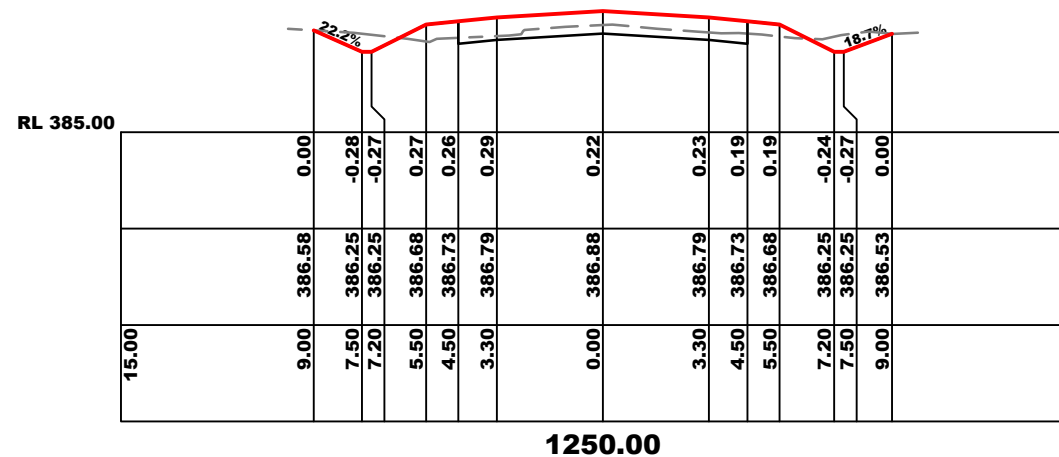
SHEET 33 of 50 SHEETS

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

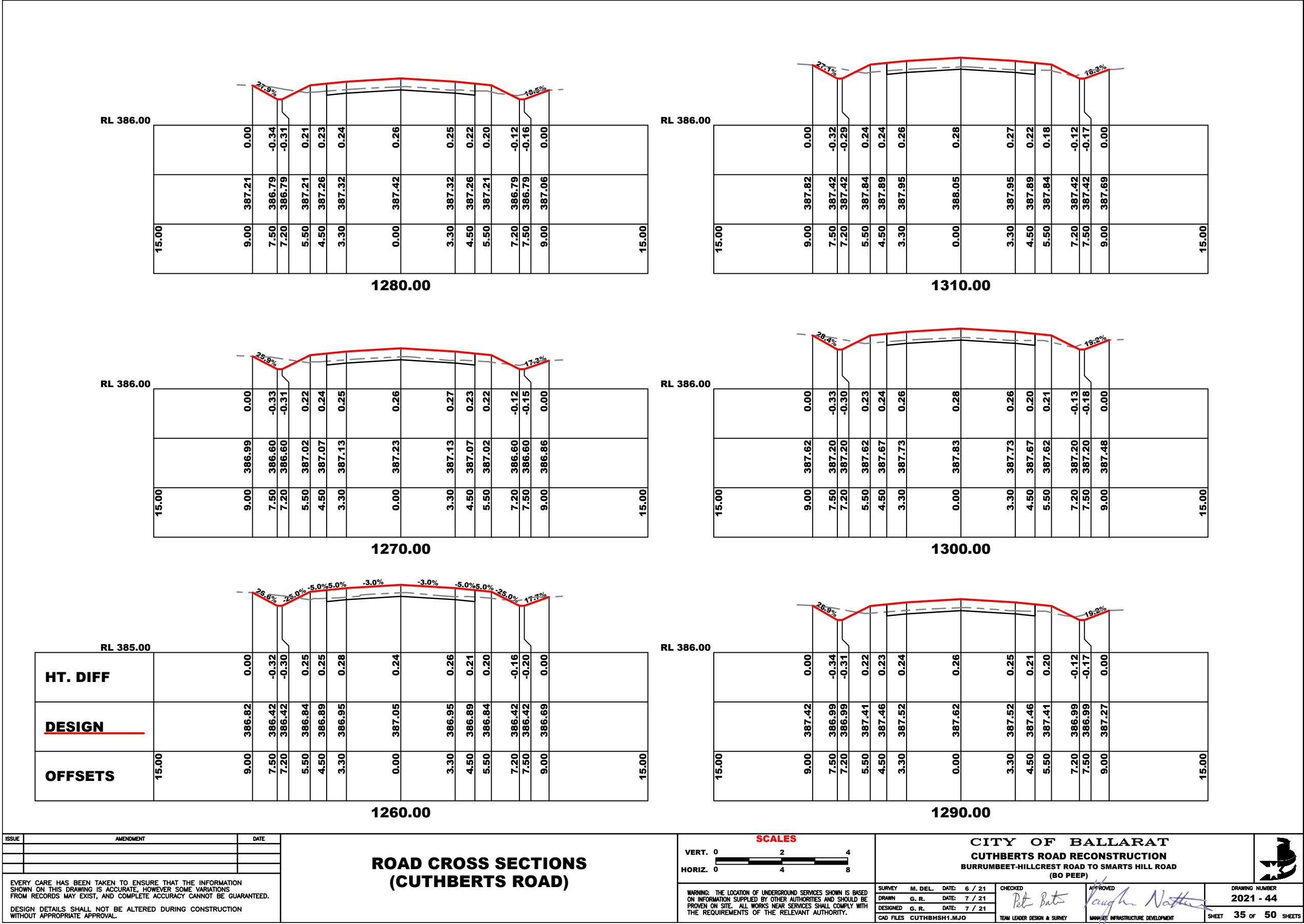
DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.

ROAD CROSS SECTIONS

(CUTHBERTS ROAD)



DRAWING NUMBER	
2021 - 44	
SHEET	34 OF 50



RL 386.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

387.62

387.20

387.20

387.62

387.67

387.73

387.83

387.73

387.67

387.62

387.20

387.20

387.48

0.00

-0.33

-0.30

0.23

0.24

0.26

0.28

0.26

0.20

0.21

-0.13

-0.18

0.00

1300.00

RL 385.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

386.82

386.42

386.42

386.84

386.89

386.95

387.05

386.95

386.89

386.84

386.42

386.42

386.69

0.00

-0.32

-0.30

0.25

0.25

0.28

0.24

0.26

0.21

0.20

-0.16

-0.20

0.00

1260.00

RL 386.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

387.42

386.99

386.99

387.41

387.46

387.52

387.62

387.52

387.46

387.41

386.99

386.99

387.27

0.00

-0.34

-0.31

0.22

0.23

0.24

0.26

0.25

0.21

0.20

-0.12

-0.17

0.00

1290.00

HT. DIFF

DESIGN

OFFSETS

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

386.82

386.42

386.42

386.84

386.89

386.95

387.05

386.95

386.89

386.84

386.42

386.42

386.69

0.00

-0.32

-0.30

0.25

0.25

0.28

0.24

0.26

0.21

0.20

-0.16

-0.20

0.00

25.6%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

17.7%

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

SURVEY M. DEL. DATE: 6 / 21

DRAWN G. R. DATE: 7 / 21

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)

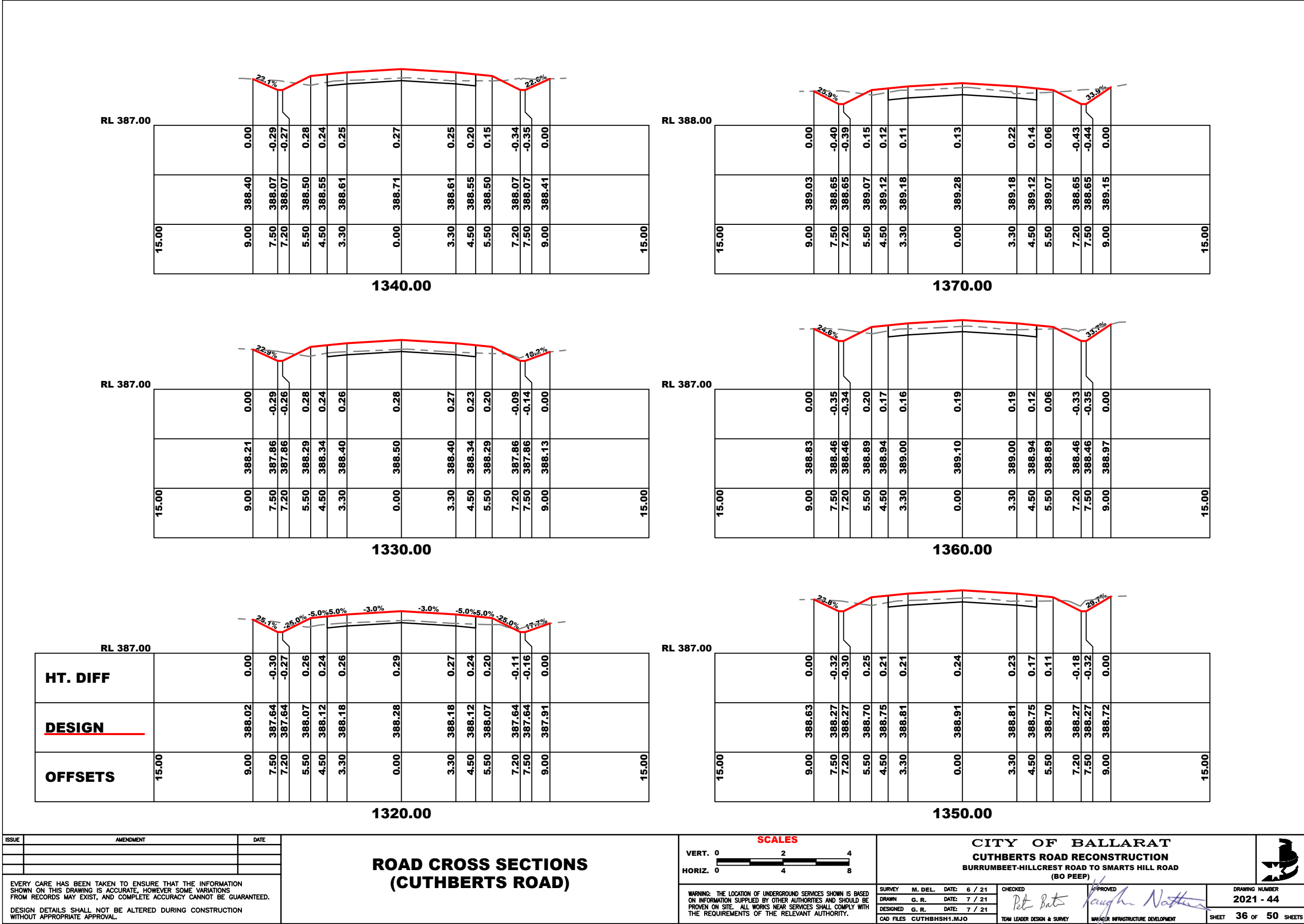
CHECKED

APPROVED

DRAWING NUMBER

2021 - 44

SHEET 35 of 50 SHEETS



RL 387.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

388.83

388.46

388.46

388.89

388.94

389.00

389.10

389.00

388.94

388.89

388.46

388.46

388.97

0.00

-0.35

-0.34

0.20

0.17

0.16

0.19

0.19

0.12

0.06

-0.33

-0.35

0.00

1360.00

RL 387.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

388.02

387.64

387.64

388.07

388.12

388.18

388.28

388.18

388.12

388.07

387.64

387.64

387.91

0.00

-0.30

-0.27

0.26

0.24

0.26

0.29

0.27

0.24

0.20

-0.11

-0.16

0.00

1320.00

RL 387.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

388.63

388.27

388.27

388.70

388.75

388.81

388.91

388.81

388.75

388.70

388.27

388.27

388.72

0.00

-0.32

-0.30

0.25

0.21

0.21

0.24

0.23

0.17

0.11

-0.18

-0.32

0.00

1350.00

HT. DIFF

DESIGN

OFFSETS

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

25.1%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

17.7%

1320.00

RL 387.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

388.63

388.27

388.27

388.70

388.75

388.81

388.91

388.81

388.75

388.70

388.27

388.27

388.72

0.00

-0.32

-0.30

0.25

0.21

0.21

0.24

0.23

0.17

0.11

-0.18

-0.32

0.00

1350.00

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

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CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD

(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

CHECKED

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

APPROVED

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER

2021 - 44

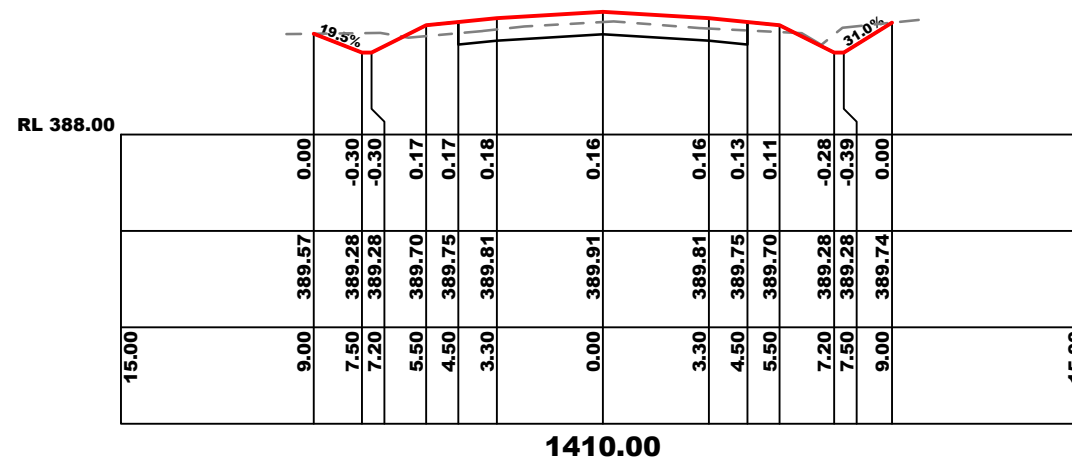
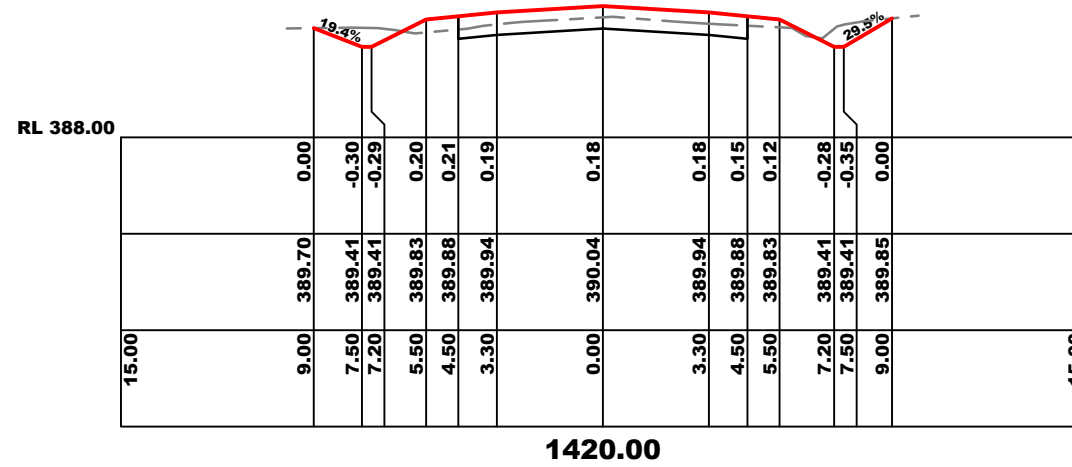
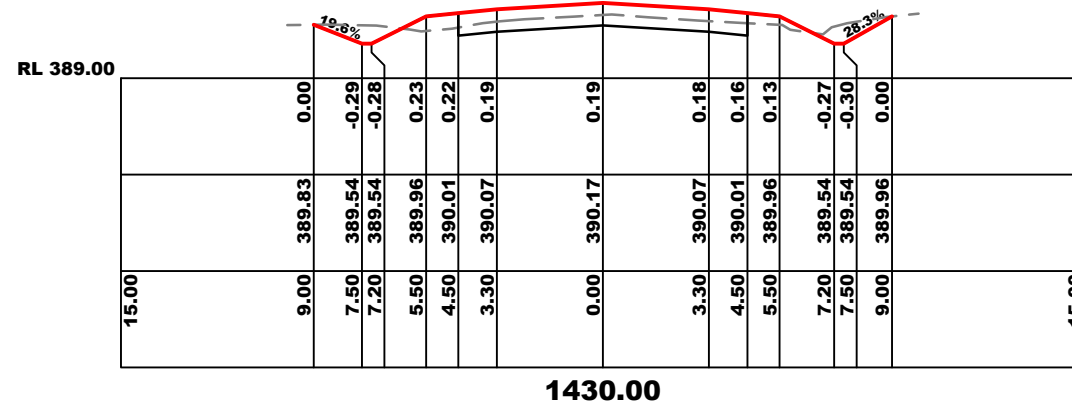
ISSUE

AMENDMENT

DATE

EVERY CARE HAS BEEN TAKEN TO ENSURE THAT THE INFORMATION SHOWN ON THIS DRAWING IS ACCURATE, HOWEVER SOME VARIATIONS FROM RECORDS MAY EXIST, AND COMPLETE ACCURACY CANNOT BE GUARANTEED.

DESIGN DETAILS SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT APPROPRIATE APPROVAL.



ROAD CROSS SECTIONS

ROAD CROSS SECTIONS (CUTHBERTS ROAD)

SCALES

VERT. 0 2 4

HORIZ. 0 4 8

WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

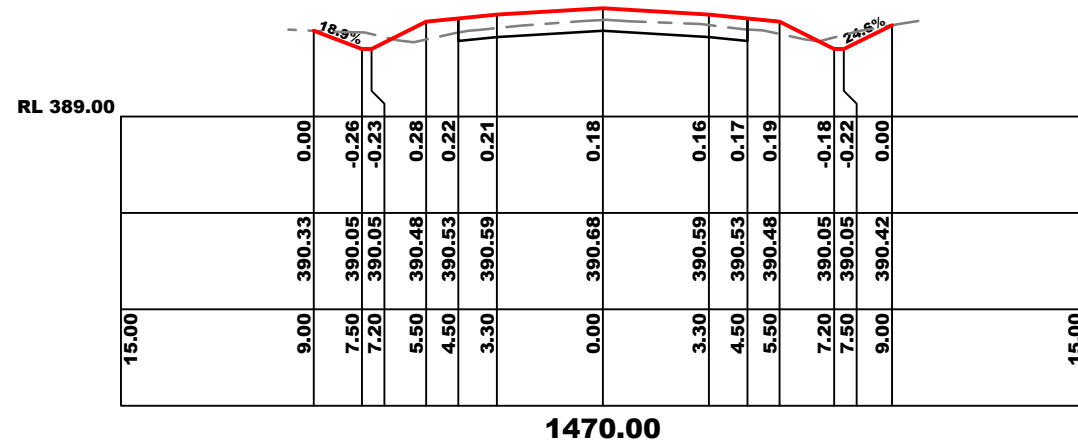
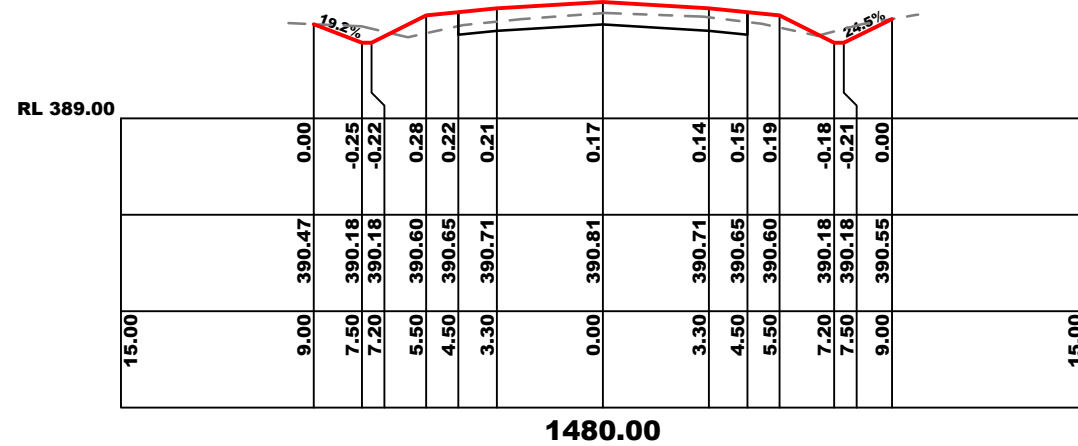
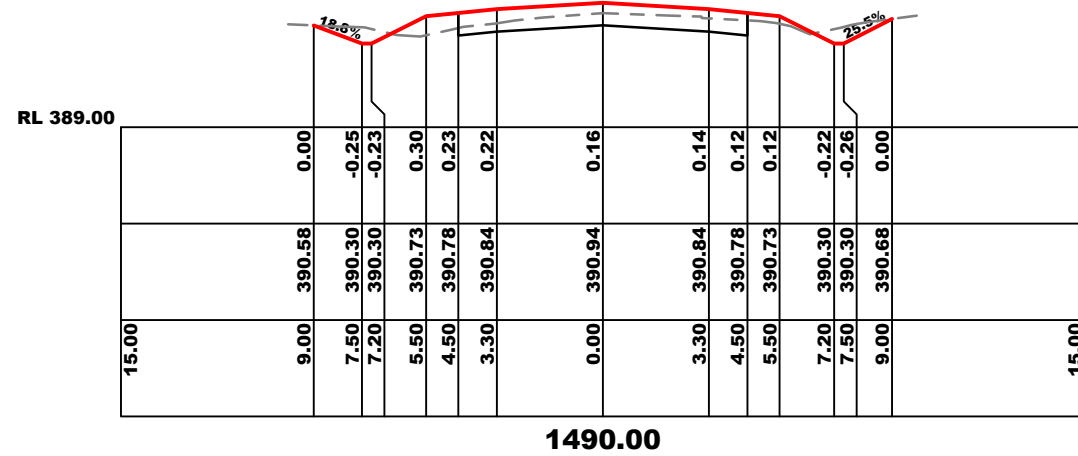
SCALES

VERT. 0 2 4

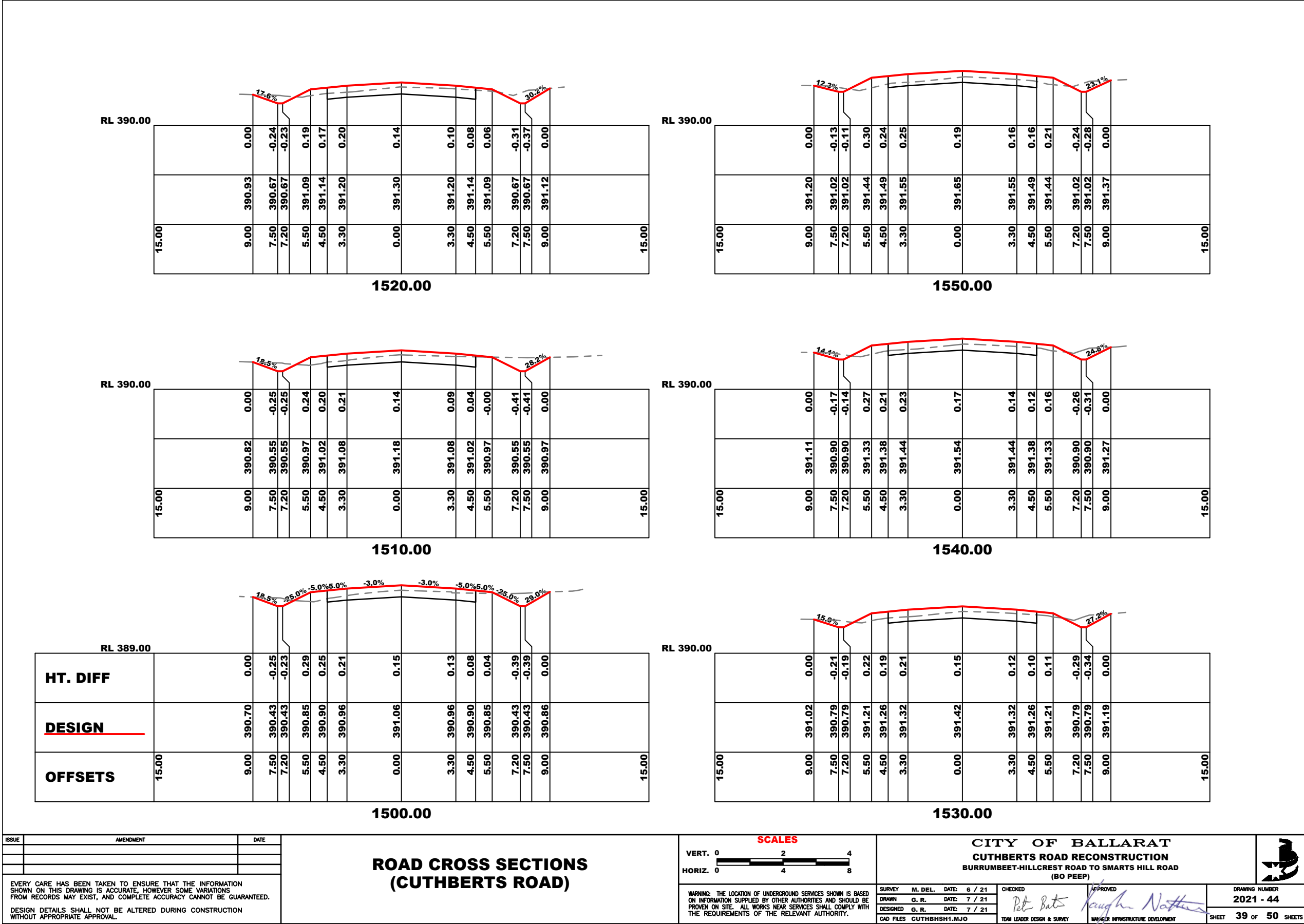
HORIZ. 0 4 8

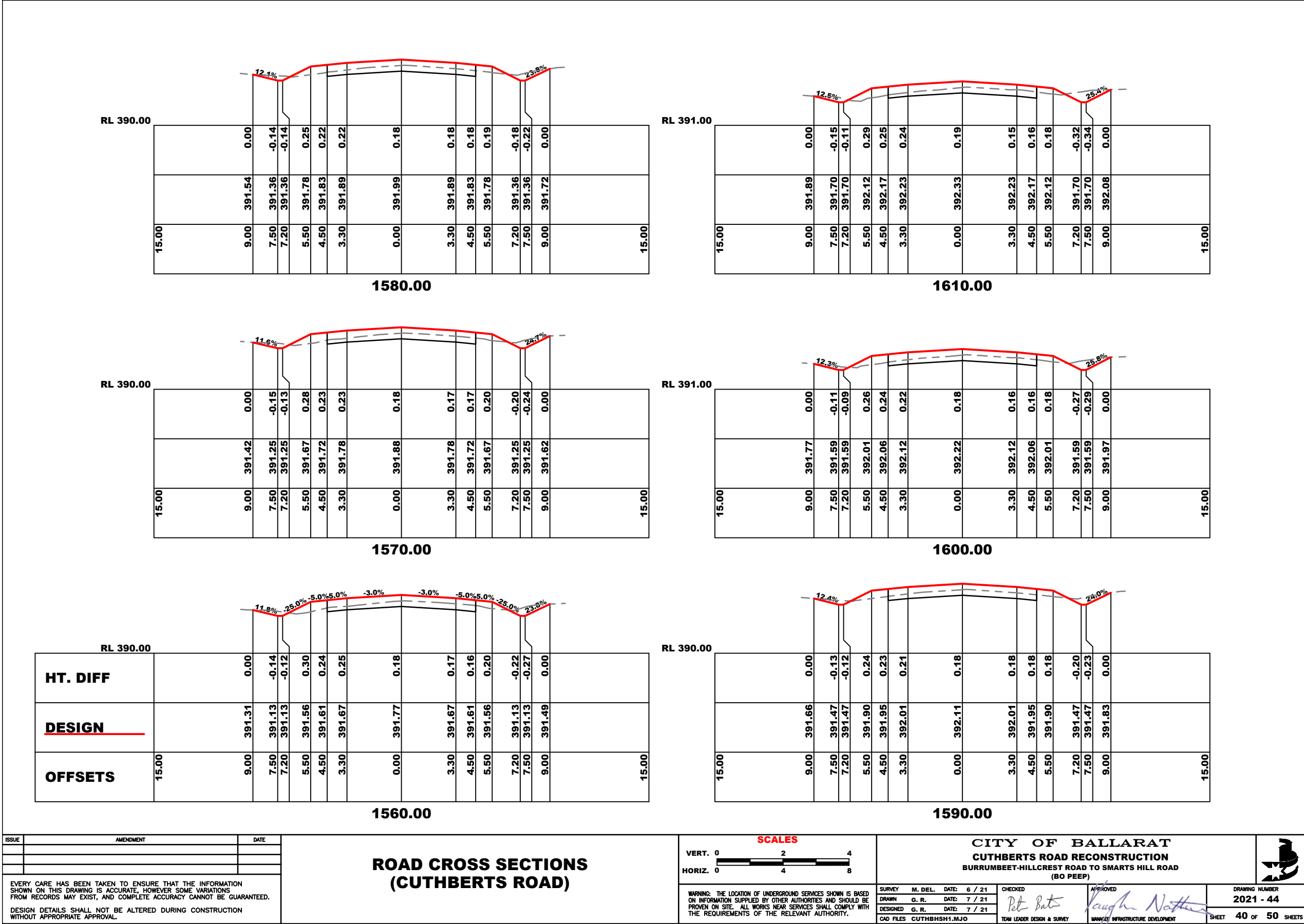
WARNING: THE LOCATION OF UNDERGROUND SERVICES SHOWN IS BASED ON INFORMATION SUPPLIED BY OTHER AUTHORITIES AND SHOULD BE PROVEN ON SITE. ALL WORKS NEAR SERVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY.

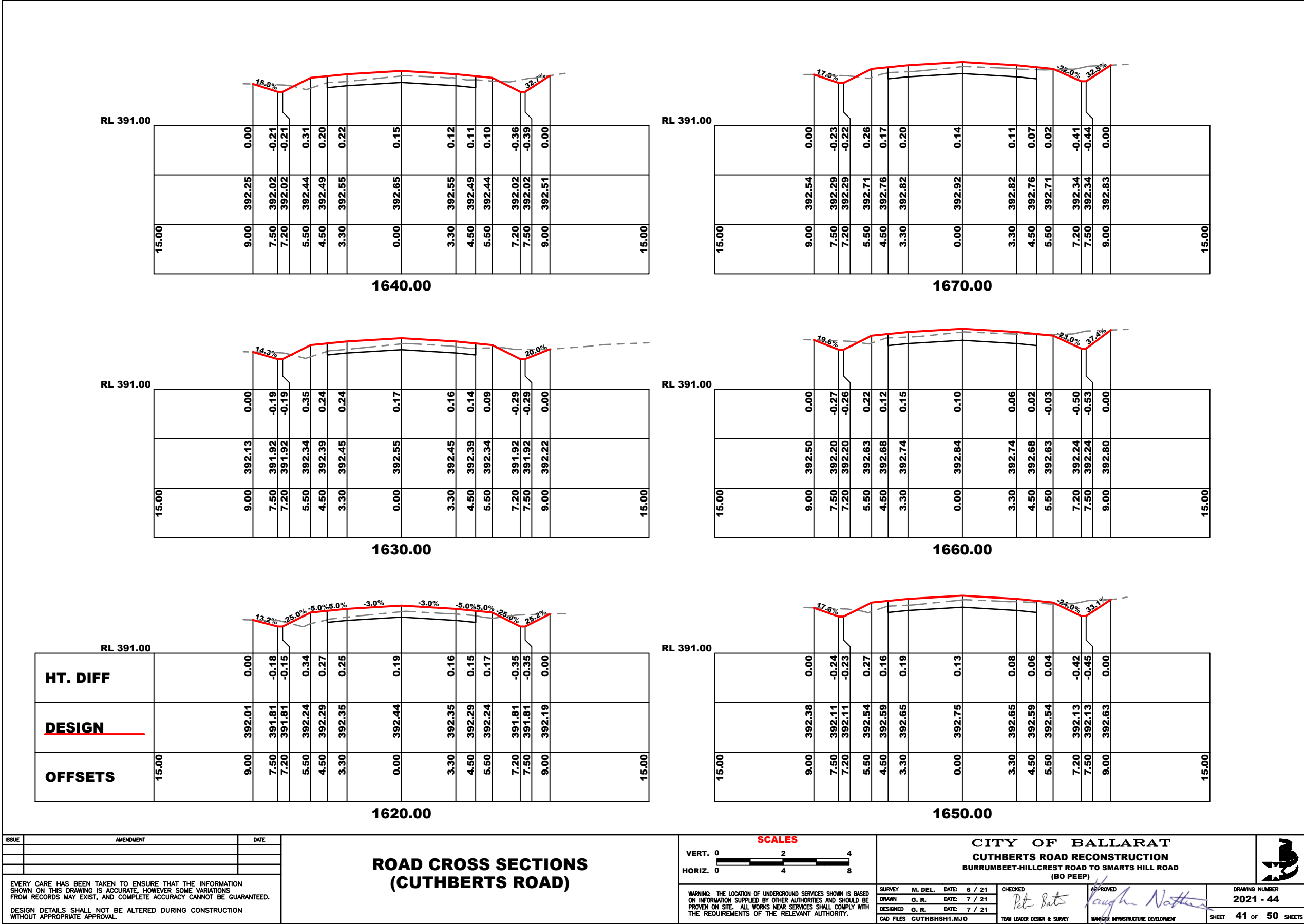
			
		DRAWING NUMBER 2021 - 44	
SHEET		37 OF 50	SHEETS



CITY OF BALLARAT CUTHBERTS ROAD RECONSTRUCTION BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD (BO PEEP)				
SURVEY M. DEL. DATE: 6 / 21		CHECKED <i>Pet Bates</i>	APPROVED <i>Naughton</i>	DRAWING NUMBER 2021 - 44
DRAWN G. R. DATE: 7 / 21		DESIGNED G. R. DATE: 7 / 21		
CAD FILE: CUTHBERTS.MXD		SHEET 38 OF 50 SHEETS		







RL 391.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

392.50

392.20

392.20

392.63

392.68

392.74

392.84

392.74

392.68

392.63

392.24

392.24

392.80

0.00

-0.27

-0.26

0.22

0.12

0.15

0.10

0.06

0.02

-0.03

-0.50

-0.53

0.00

19.6%

31.4%

1660.00

RL 391.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

392.01

391.81

391.81

392.24

392.29

392.35

392.44

392.35

392.29

392.24

391.81

391.81

392.19

0.00

-0.18

-0.15

0.34

0.27

0.25

0.19

0.16

0.15

0.17

-0.35

-0.35

0.00

13.2%

25.0%

5.0%

5.0%

3.0%

3.0%

5.0%

5.0%

25.0%

25.2%

1620.00

RL 391.00

15.00

9.00

7.50

7.20

5.50

4.50

3.30

0.00

3.30

4.50

5.50

7.20

7.50

9.00

15.00

0.00

392.38

392.11

392.11

392.54

392.59

392.65

392.75

392.65

392.59

392.54

392.13

392.13

392.63

0.00

-0.24

-0.23

0.27

0.16

0.19

0.13

0.08

0.06

0.04

-0.42

-0.45

0.00

17.6%

33.1%

1650.00

HT. DIFF

DESIGN

OFFSETS

15.00	9.00	7.50	7.20	5.50	4.50	3.30	0.00	3.30	4.50	5.50	7.20	7.50	9.00	15.00
0.00	392.01	391.81	391.81	392.24	392.29	392.35	392.44	392.35	392.29	392.24	391.81	391.81	392.19	
0.00	-0.18	-0.15	0.34	0.27	0.25	0.19	0.16	0.15	0.17	-0.35	-0.35	0.00		

SCALE

VERT. 0 2 4

HORIZ. 0 4 8

CITY OF BALLARAT

CUTHBERTS ROAD RECONSTRUCTION

BURRUMBEET-HILLCREST ROAD TO SMARTS HILL ROAD

(BO PEEP)

SURVEY M. DEL. DATE: 6 / 21

DRAWN G. R. DATE: 7 / 21

DESIGNED G. R. DATE: 7 / 21

CAD FILES CUTHBHS1.MJO

CHECKED

APPROVED

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TEAM LEADER DESIGN & SURVEY

MANAGER INFRASTRUCTURE DEVELOPMENT

DRAWING NUMBER

2021 - 44

SHEET

41 of 50 SHEETS

