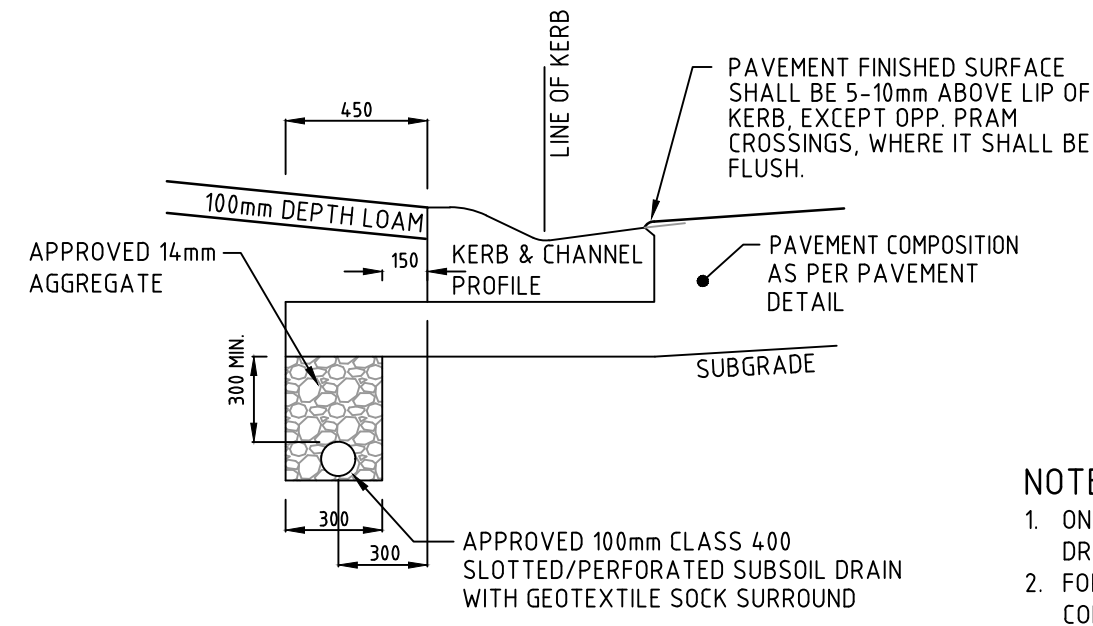


**NOTES:**

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
  - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982
  - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 15 METRES OR DEEPER.
  - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER. THE REMOVAL OR RETENTION OF EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS. OTHERWISE, APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVAL OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE PLACED A MINIMUM OF 5m FROM BOUNDARIES/EASEMENTS AND TO THE SATISFACTION OF THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G,W,E AND T ABOVE CONDUIT LOCATIONS AS SPECIFIED. TELSTRA CONDUITS WILL BE SUPPLIED BY TELSTRA AT TELSTRA'S EXPENSE, IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. TELSTRA SIZE VARIES - WHITE P.V.C. TELSTRA TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. GAS AND WATER CONDUITS TO BE 50mm DIA. HEAVY DUTY P.V.C. LAID AT A MINIMUM DEPTH OF 600mm BELOW ROAD FINISHED SURFACE LEVELS.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND ALL KERB AND CHANNEL AS PER COUNCIL SPECIFICATION AND STANDARD DRAWINGS.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAX. DRY DENSITY UNDER THE STANDARD AASHTO TEST. ALL FILLING TO COMPLY WITH AS 3798/1996, APPENDIX B, LEVEL 1. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT. IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE, IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL COMPACTED TO COUNCIL REQUIREMENTS. A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 75mm OF APPROVED MATERIAL. IF THE LOCAL SOIL IS NOT SUITABLE, APPROVED SOIL SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE SHOWN, BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 3 CUT AND 1 IN 6 FILL. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION
- LOTS SHALL BE GRADED TO ENSURE A MINIMUM GRADE OF 1 IN 150 ON THE LOWEST SIDE BOUNDARY TO THE POINT OF DRAINAGE.
- ALL 150Ø PIPES TO BE PVC (S10), 225Ø TO BE PVC (S110), R/R J.C., STORMPRO OR BLACKMAX, 300Ø TO 600Ø INCLUSIVE TO BE R/R J.C. ALL R.C. PIPES TO BE RUBBER RING JOINTED CLASS 2 UNLESS NOTED OTHERWISE.
 

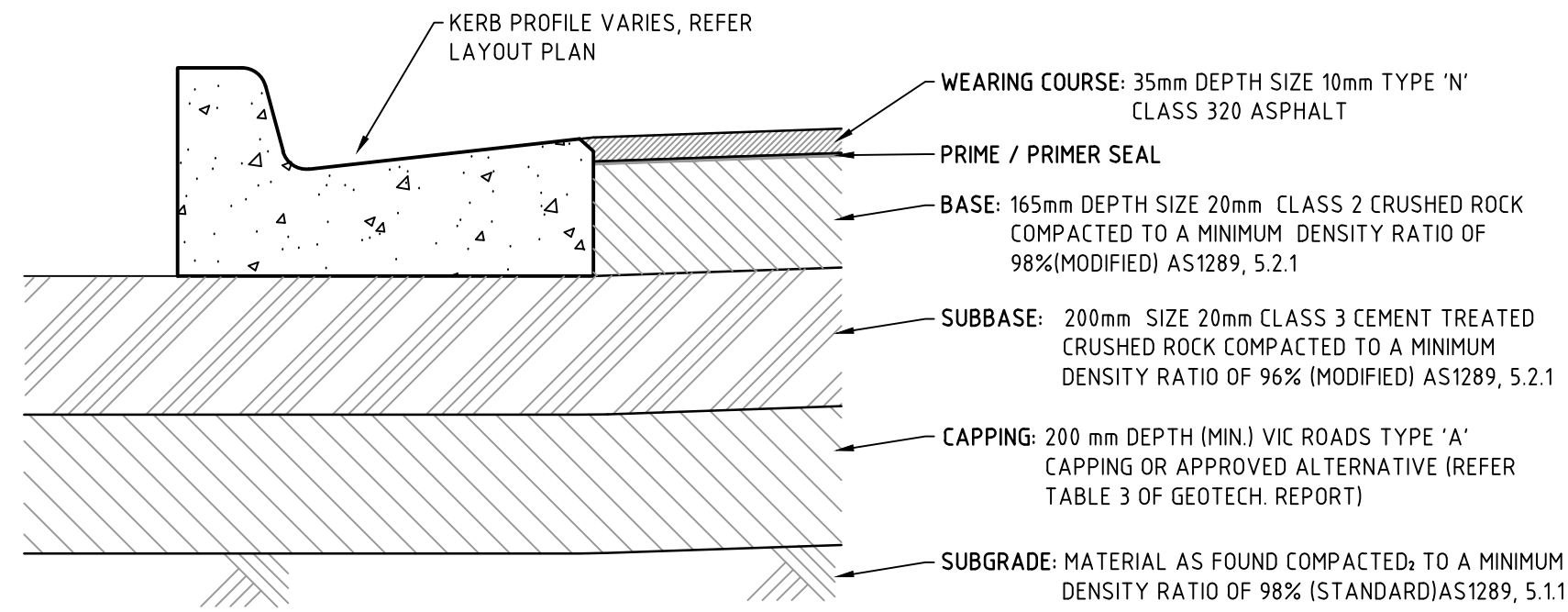
ALL PIPES UNDER ROAD PAVEMENT ARE TO BE CLASS 3 R/R J.C.
- STORMWATER DRAINS UNDER PAVEMENTS, FOOTPATHS AND DRIVEWAYS TO BE BACKFILLED AS PER BALLARAT SD-08-1, OPTION A. ROAD PAVEMENT, UNLESS SHOWN OTHERWISE
- STORMWATER DRAINS BEHIND KERB TO BE BACKFILLED AS PER BALLARAT SD-08-1, OPTION B. ROAD SHOULDER, UNLESS SHOWN OTHERWISE.
- TERRA FIRMA OR FIBREGLASS TYPE LIDS ARE REQUIRED FOR ALL DRAINAGE PITS AND ALL GRATES ARE TO BE CLASS D TO COMPLY WITH AS3996.
- HOUSE DRAINS ARE TO BE CONNECTED DIRECTLY TO AN UNDERGROUND DRAIN OR PIT, IN COMPLIANCE WITH IDM STANDARD DRAWINGS SD515 OR SD516.
 

ALL HOUSE DRAIN STORMWATER POINTS DISCHARGING TO THE FRONT OF THE ALLOTMENTS ARE TO BE LOCATED IN THE LOWEST CORNER OF THE ALLOTMENT AT AN OFFSET OF 0.6m FROM THE SIDE TITLE BOUNDARY.
- PROPERTY INLET PITS ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 500mm BELOW FINISHED/EXISTING SURFACE LEVEL. A PROPERTY INLET GULLY BASIN IS NOT REQUIRED AT PROPERTY INLET POINTS.
- COUNCIL'S INFRASTRUCTURE WORKS SUPERVISION TO BE NOTIFIED TWO (2) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- A CCTV INSPECTION OF ALL DRAINAGE LINES IS TO BE UNDERTAKEN BY THE CONTRACTOR TO THE SATISFACTION OF COUNCIL'S WORK SUPERVISOR.
- DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S STANDARDS. DRIVEWAYS TO BE LOCATED 1.2m FROM BUILDING LINE, BE CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES.
- ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE 125mm THICK CONCRETE AS PER IDM SD 205. TACTILE GROUND SURFACE INDICATORS (TGS) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS IN ACCORDANCE WITH AS1428.
- ALL STREET SIGNS ARE TO BE CURRENT CITY OF BALLARAT COUNCIL STANDARDS, INCLUDING PROVISION OF LOGO. NAME BLADES ARE TO COMPLY WITH CITY OF BALLARAT STANDARD DRAWING SD-501.
- SIGNS, PAVEMENT MARKINGS AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL PAVEMENT MARKINGS TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
- ANY SOFT ROCK USED IS TO CONFORM TO THE CITY OF BALLARAT COUNCIL SPECIFICATION FOR RIPPED ROCK.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- CONCRETE TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm. DISTRIBUTION PITS TO BE A MINIMUM OF 300mm FROM EDGE OF FOOTPATHS.
- UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- APPROVAL WILL BE REQUIRED FROM COUNCIL'S CONSERVATION OFFICER FOR ALTERATION, REMOVAL OR EXCAVATION OF ANY SIGNIFICANT EXISTING FEATURES, BUILDINGS, STRUCTURES OR VEGETATION.



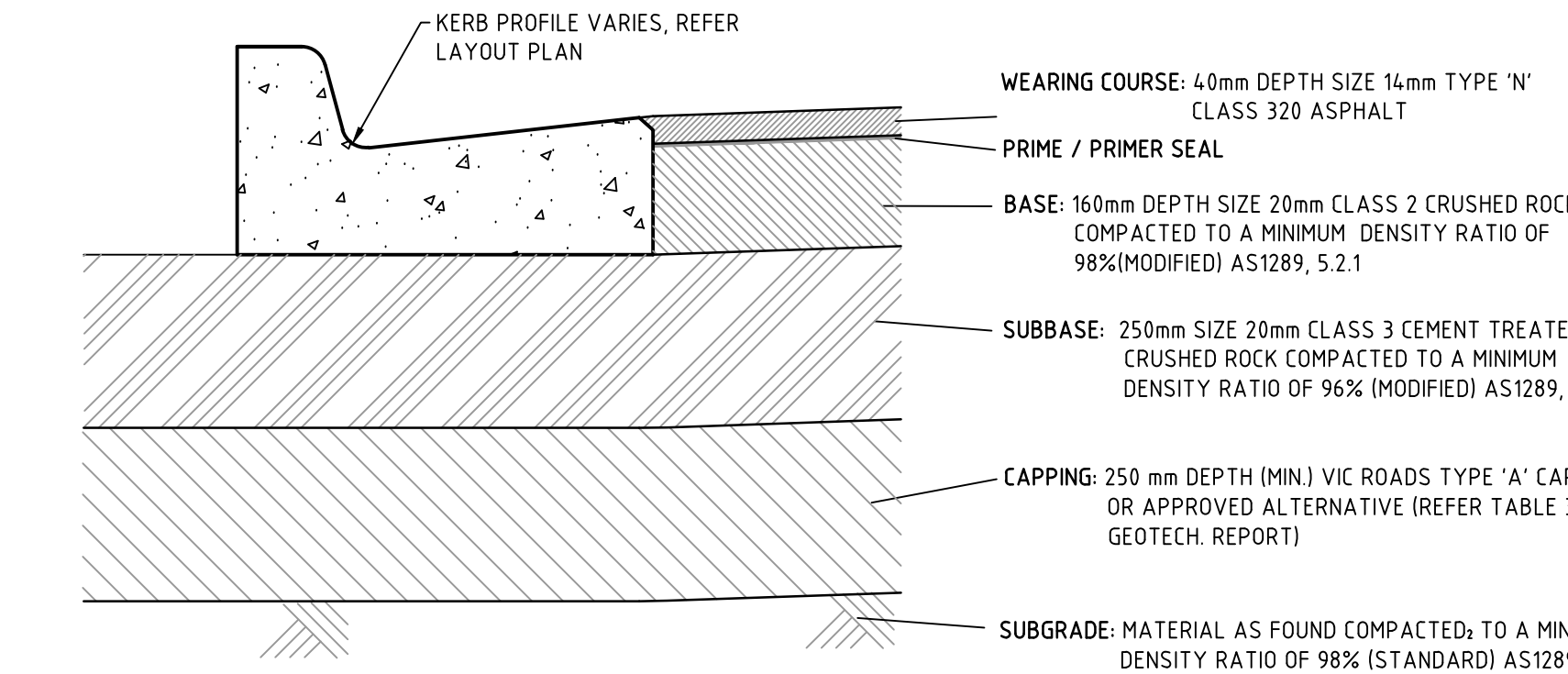
- NOTES:**
- ONLY PROVIDE AG DRAIN WHERE THERE ARE NO STORMWATER DRAINAGE PIPE RUNNING BEHIND THE BACK OF KERB.
  - FOR SUB-SOIL DRAINS UNDER TRAFFICKED AREAS NO FINES CONCRETE TRENCH BACKFILL SHALL BE USED.
  - ALL OTHER DETAILS SHALL CONFORM TO IDM SD 145.

**PAVEMENT/SUBSOIL DRAIN DETAILS TYPICAL DETAILS NOT TO SCALE**



**CUMBERLAND BOULEVARD, MILANESIA PLACE & BUCKLEY AVENUE**  
600mm TOTAL DEPTH (TO SUBGRADE)

CLASS 3 CEMENTED TREATED CEMENT TREATMENT OPTIONAL FOR WETTER MONTHS\*



**CUMBERLAND BVD**  
700mm TOTAL DEPTH (TO SUBGRADE)

**PAVEMENT NOTES**

- CLASS 3 CEMENT TREATED CEMENT TREATMENT OPTIONAL FOR WETTER MONTHS.
- PAVEMENT DEPTHS SHALL BE MODIFIED IF DIRECTED BY THE SUPERINTENDENT.
- ANY CHANGE TO THE ABOVE PAVEMENTS SHALL BE APPROVED IN WRITING BY COUNCIL'S SUPERINTENDENT.
- INSPECTION AND TESTING OF PAVEMENTS SHALL BE CARRIED OUT TO COUNCIL SPECIFICATIONS
- DEPTHS SHOWN ARE CONSOLIDATED THICKNESSES IN MILLIMETRES.

**SERVICES CONTACTS**

| SERVICE             | AUTHORITY               | TELEPHONE    |
|---------------------|-------------------------|--------------|
| GAS                 | AUSNET SERVICES         | 136707       |
| WATER/SEWERS        | CENTRAL HIGHLANDS WATER | 1800 061 514 |
| ELECTRICITY         | CITIPOWER               | 132 206      |
| TELECOMMUNICATION   | TELSTRA VIC/TAS         | 1800 653 935 |
| PAVEMENTS AND DRAIN | CITY OF BALLARAT        | 03 5320 5143 |

**LEGEND**

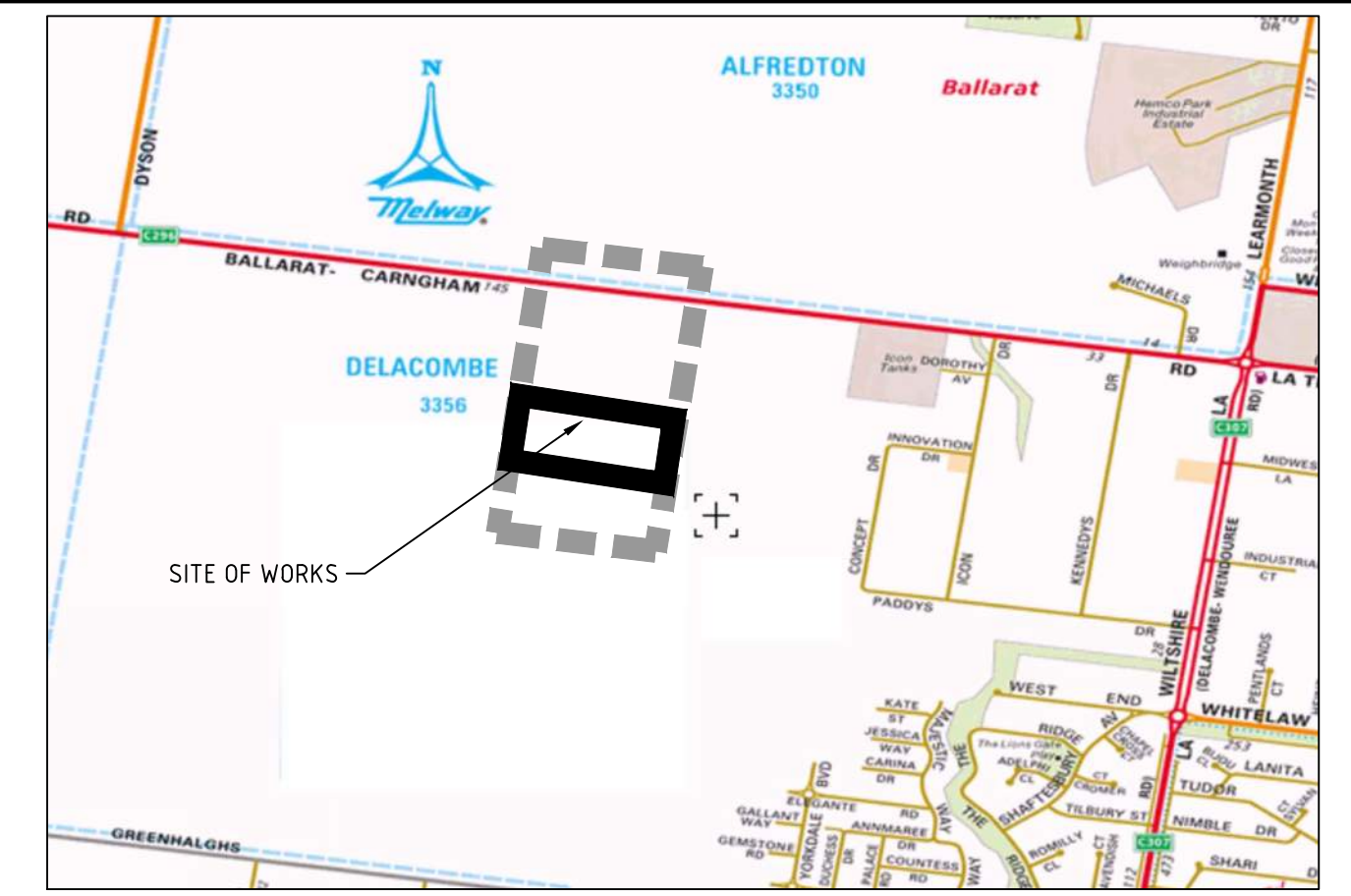
- 10 FUTURE STAGE NUMBER
- 5 EXISTING STAGE NUMBER
- 6 PROPOSED STAGE NUMBER

**TBM DATA**

| No. | Easting | Northing | R.L. | Description |
|-----|---------|----------|------|-------------|
|     |         |          |      |             |
|     |         |          |      |             |
|     |         |          |      |             |
|     |         |          |      |             |

**DRAWING INDEX**

| SHEET NO. | DRAWING TITLE  |
|-----------|--|
| 6R1       | GENERAL NOTES, LOCALITY PLAN & DRAWING INDEX         |
| 6R2       | LAYOUT PLAN  |
| 6R3       | CUMBERLAND BOULEVARD: LONGITUDINAL SECTION           |
| 6R4       | CUMBERLAND BOULEVARD: CROSS SECTIONS                 |
| 6R5       | MILANESIA PLACE: LONGITUDINAL AND CROSS SECTIONS - 1 |
| 6R6       | MILANESIA PLACE: CROSS SECTIONS - 2                  |
| 6R7       | BUCKLEY AVENUE: LONGITUDINAL AND CROSS SECTIONS      |
| 6R8       | INTERSECTION DETAILS & LIP PROFILES                  |
| 6R9       | DRAINAGE LONG SECTION - 1                            |
| 6R10      | DRAINAGE LONG SECTION - 2                            |
| 6R11      | PIT SCHEDULE   |
| 6R12      | SIGNS & LINEMARKING PLAN                             |



**LOCALITY PLAN**



**SITE PLAN**

Scale 1:2500 @ A1

**CITY OF BALLARAT**  
**BALLARAT PLANNING SCHEME**  
 Plan Referred to in Permit No. P/LP/2015/888  
 dated: 19/04/2017

Endorsed by **Donna Perera** for and on behalf of the **City of Ballarat Council**.  
 Date: 19/6/2023

Sheet No: 1 of 12

**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**APPROVED CITY OF BALLARAT**  
 By D. Hastings, 31 May, 2023

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558E\_6R1 (COVER SHEET).DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | REMARKS  | DATE     | BY |
|---------|--|----------|----|
| B       | CLASS 3 CEMENTED TREATED. CEMENT TREATMENT OPTIONAL FOR WETTER MONTHS. | 24.05.23 | LP |
| A       | ISSUE TO COUNCIL   | 25.03.23 | LP |

| DRAWN BY    | DESIGNED BY | CHECKED BY | AUTHORISED BY |
|-------------|-------------|------------|---------------|
| N. ROBINSON | L. PHAN     | L. PHAN    | T. HOI        |
| MELWAY      |             |            |               |
| DATUM       | AHD         |            |               |

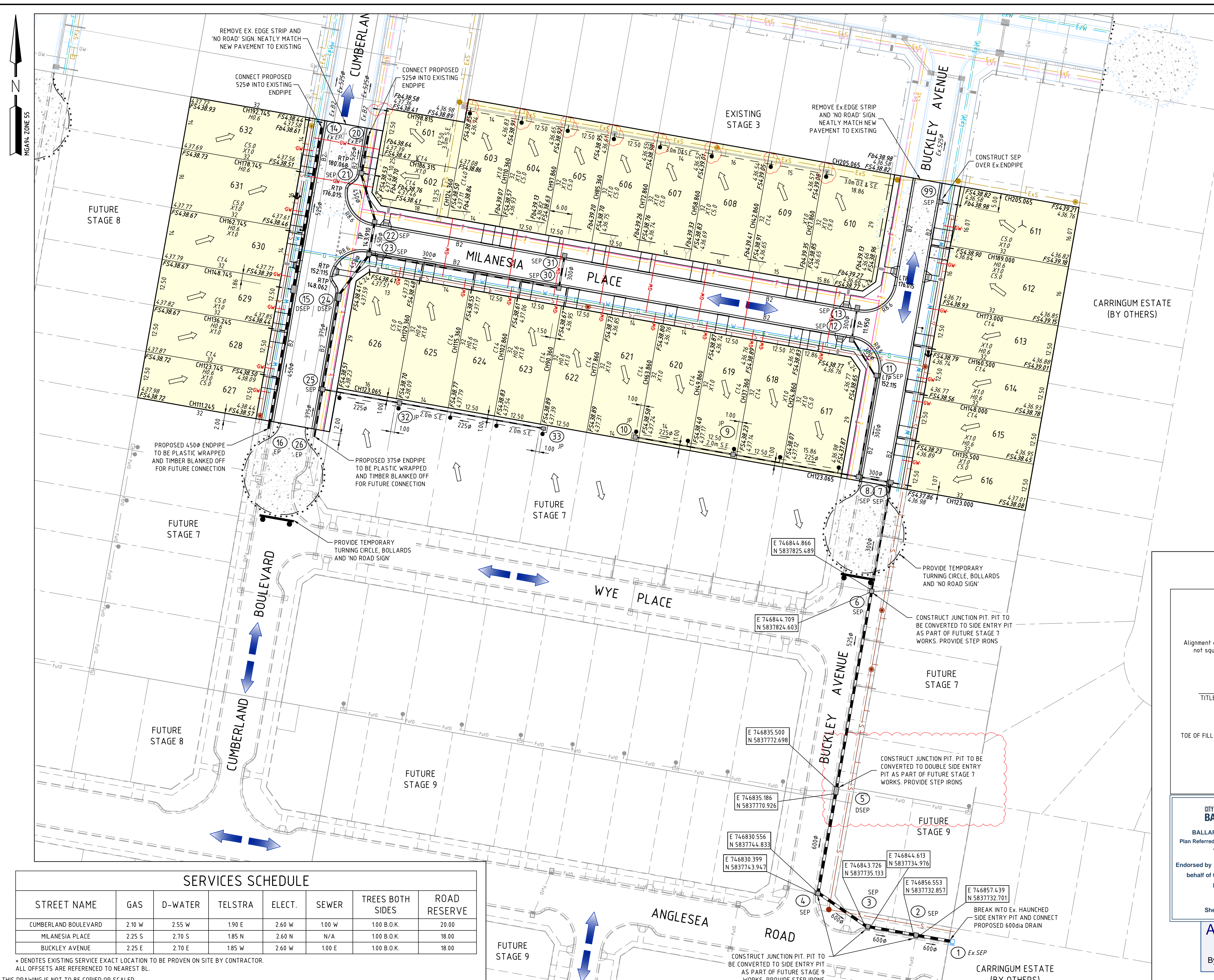
**REEDS CONSULTING**  
 LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING  
 DEVELOPMENT CONSULTING

www.reedsconsulting.com.au  
 engineering@reedsconsulting.com.au  
 Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
 p 031 8660 3000  
 Copyright © Reeds Consulting Pty Ltd All Rights Reserved 2001

**CITY OF BALLARAT**  
**ALLUVIUM ESTATE, WINTER VALLEY**  
**STAGE 6**  
 GENERAL NOTES, LOCALITY PLAN & DRAWING INDEX

| DRAWING No. | VERSION |
|-------------|---------|
| 6R1         | B       |
| REFERENCE   | 22558E  |
| SHEET       | 1 OF 12 |





### LEGEND

- GW - PROPOSED GAS & WATER CONDUITS
- ET - PROPOSED ELECT. & TELECOMM. CONDUITS
- W - PROPOSED WATER MAIN
- ExW - Ex. WATER MAIN
- G - PROPOSED GAS MAINS
- ExG - Ex. GAS MAINS & VALVE
- E - PROP. ELECTRICAL CABLES
- ExE - Ex. ELECTRICAL CABLE
- T - PROPOSED TELSTRA CABLES
- ExT - Ex. TELSTRA CABLES
- Proposed Drain & Pit
- Ex. Drain & Pit
- Proposed House Drain
- Ex. House Drain
- 109.0 - DESIGN FINISHED SURFACE CONTOURS (0.25m INT.)
- Direction of Lot Finished Surface Fall
- Overland Flow Path
- Install PSM

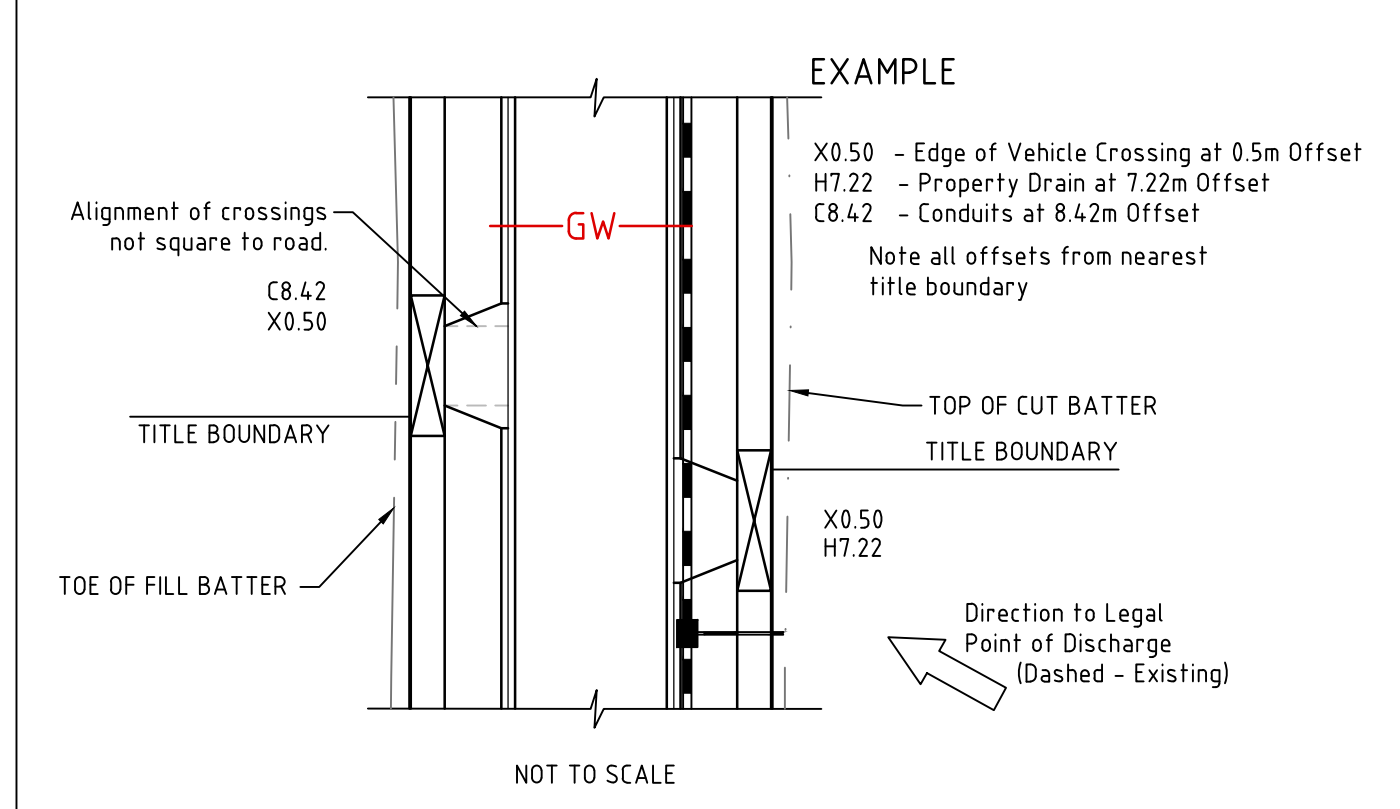
### EARTHWORKS LEGEND

- FILL EARTHWORKS - FILL AREA WITHIN LOTS GREATER THAN 150mm DEPTH
- CUT EARTHWORKS - CUT AREA WITHIN LOTS GREATER THAN 150mm DEPTH

THIS PLAN SHOWS ONLY APPROXIMATE EXTENTS & LEVELS OF FILL TO BE PLACED DURING CONSTRUCTION. DEPTH OF FILL USED FOR TOP DRESSING ALL ALLOTMENTS MAY VARY BY UP TO 0.15m. THE EXTENT OF FILL SHOWN IS BASED ON DESIGN AND MAY BE SUBJECT TO CHANGE FOLLOWING FINAL INSPECTION BY GEOTECHNICAL ENGINEER.

### DRAINAGE PIT LEGEND

- EP1 - END PIPE
- JP - JUNCTION PIT
- SEP - SIDE ENTRY PIT
- DSEP - SIDE ENTRY PIT - 18m INLET



**CITY OF BALLARAT**  
BALLARAT PLANNING SCHEME  
Plan Referred to in Permit No. PLP/2015/888 dated: 19/04/2017

Endorsed by **Donna Perera** for and on behalf of the City of Ballarat Council.  
Date: 19/06/2023

Sheet No: 2 of 12

**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

**APPROVED CITY OF BALLARAT**  
By D. Hastings, 31 May, 2023

**PRELIMINARY PLAN ONLY**  
NOT APPROVED FOR CONSTRUCTION

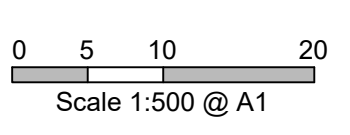
### SERVICES SCHEDULE

| STREET NAME          | GAS    | D-WATER | TELSTRA | ELECT. | SEWER  | TREES BOTH SIDES | ROAD RESERVE |
|----------------------|--------|---------|---------|--------|--------|------------------|--------------|
| CUMBERLAND BOULEVARD | 2.10 W | 2.55 W  | 1.90 E  | 2.60 W | 1.00 W | 1.00 B.O.K.      | 20.00        |
| MILANESIA PLACE      | 2.25 S | 2.70 S  | 1.85 N  | 2.60 N | N/A    | 1.00 B.O.K.      | 18.00        |
| BUCKLEY AVENUE       | 2.25 E | 2.70 E  | 1.85 W  | 2.60 W | 1.00 E | 1.00 B.O.K.      | 18.00        |

\* DENOTES EXISTING SERVICE EXACT LOCATION TO BE PROVEN ON SITE BY CONTRACTOR. ALL OFFSETS ARE REFERENCED TO NEAREST BL.

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | REMARKS               | DATE     | BY |
|---------|-----------------------|----------|----|
| B       | PIT 5 UPDATED TO DSEP | 25.05.23 | LP |
| A       | ISSUED FOR COUNCIL    | 25.03.23 | LP |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**  
LAND SURVEYING  
CIVIL ENGINEERING  
PLANNING  
DEVELOPMENT CONSULTING

www.reedsconsulting.com.au  
engineering@reedsconsulting.com.au

Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
p 031 8660 3000

Copyright © Reeds Consulting Pty Ltd All Rights Reserved 2001

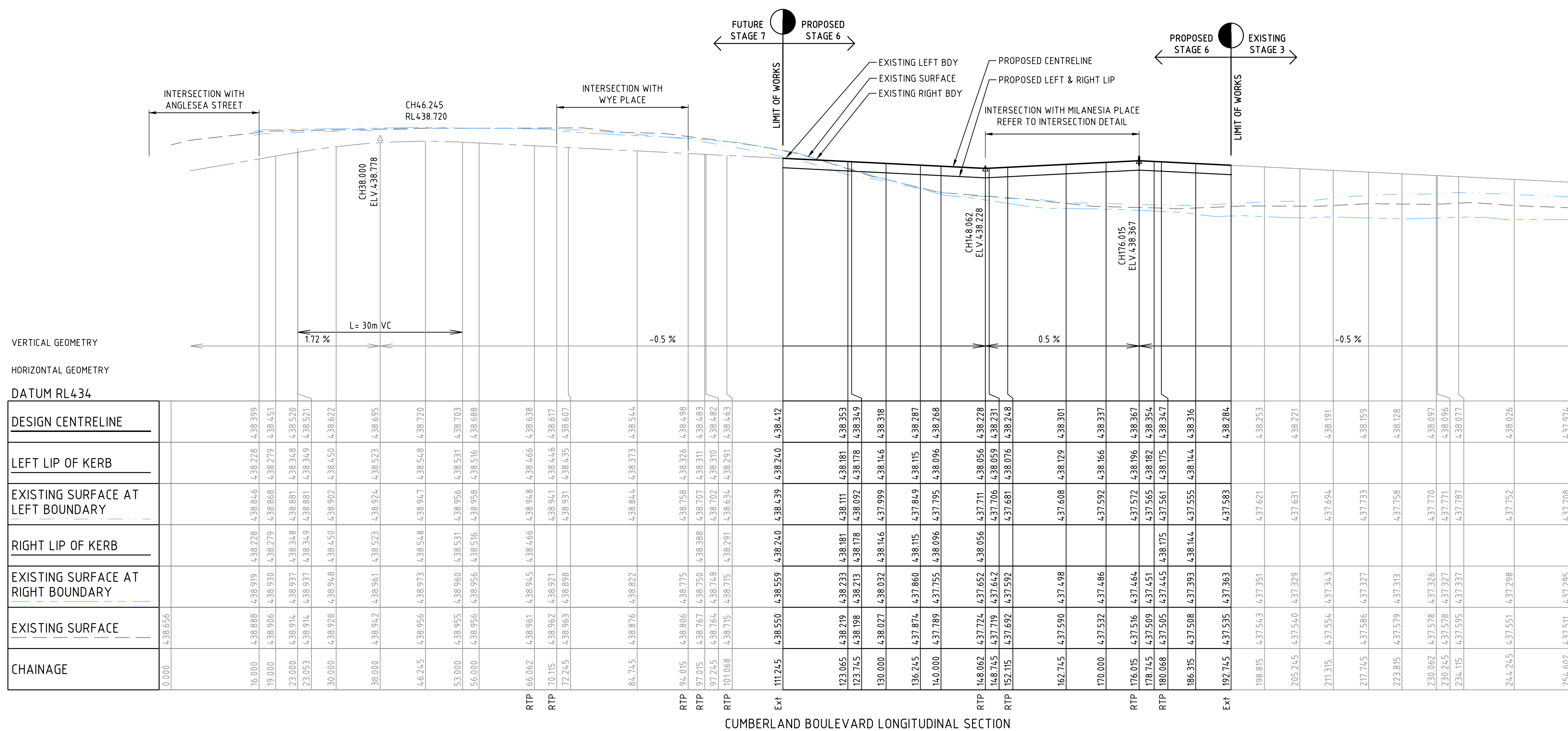
**CITY OF BALLARAT**  
ALLUVIUM ESTATE, WINTER VALLEY  
STAGE 6  
LAYOUT PLAN

|             |         |         |   |
|-------------|---------|---------|---|
| DRAWING No. | 6R2     | VERSION | B |
| REFERENCE   | 22558E  |         |   |
| SHEET       | 2 OF 12 |         |   |

H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558E\_6R2-3\_6R8 (LAYOUT PLANS & INTERSECTION DETAILS).DWG



H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558\_6R3-7 (ROAD LONG & CROSS SECTIONS).DWG



HORIZONTAL GEOMETRY

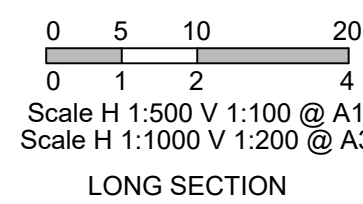
DATUM RL 434

| CHAINAGE    | EXISTING SURFACE | EXISTING SURFACE AT RIGHT BOUNDARY | RIGHT LIP OF KERB | EXISTING SURFACE AT LEFT BOUNDARY | LEFT LIP OF KERB | DESIGN CENTRELINE |
|-------------|------------------|------------------------------------|-------------------|-----------------------------------|------------------|-------------------|
| 0.000       | 438.656          |                                    |                   |                                   |                  |                   |
| 16.000      | 438.888          | 438.919                            | 438.228           | 438.816                           | 438.228          | 438.939           |
| 19.000      | 438.906          | 438.930                            | 438.279           | 438.868                           | 438.279          | 438.451           |
| 23.000      | 438.914          | 438.937                            | 438.348           | 438.881                           | 438.348          | 438.520           |
| 23.053      | 438.914          | 438.937                            | 438.349           | 438.881                           | 438.349          | 438.521           |
| 30.000      | 438.928          | 438.948                            | 438.450           | 438.902                           | 438.450          | 438.622           |
| 38.000      | 438.942          | 438.961                            | 438.523           | 438.924                           | 438.523          | 438.695           |
| 46.245      | 438.956          | 438.973                            | 438.548           | 438.947                           | 438.548          | 438.720           |
| 53.000      | 438.955          | 438.960                            | 438.531           | 438.956                           | 438.531          | 438.703           |
| 56.000      | 438.956          | 438.956                            | 438.516           | 438.958                           | 438.516          | 438.688           |
| RTP 56.062  | 438.951          | 438.945                            | 438.466           | 438.948                           | 438.466          | 438.638           |
| RTP 70.105  | 438.962          | 438.921                            |                   | 438.941                           | 438.446          | 438.617           |
| 72.245      | 438.963          | 438.898                            |                   | 438.931                           | 438.435          | 438.607           |
| 84.745      | 438.876          | 438.822                            |                   | 438.844                           | 438.373          | 438.544           |
| RTP 94.015  | 438.806          | 438.775                            |                   | 438.758                           | 438.326          | 438.498           |
| RTP 97.015  | 438.767          | 438.750                            | 438.308           | 438.707                           | 438.311          | 438.483           |
| 97.245      | 438.764          | 438.748                            |                   | 438.702                           | 438.310          | 438.482           |
| RTP 101.068 | 438.715          | 438.715                            | 438.291           | 438.634                           | 438.291          | 438.463           |
| Ext 111.245 | 438.550          | 438.559                            | 438.240           | 438.439                           | 438.240          | 438.412           |
| 123.065     | 438.219          | 438.233                            | 438.181           | 438.111                           | 438.181          | 438.353           |
| 123.745     | 438.198          | 438.213                            | 438.178           | 438.092                           | 438.178          | 438.349           |
| 130.000     | 438.027          | 438.032                            | 438.146           | 437.999                           | 438.146          | 438.318           |
| 136.245     | 437.874          | 437.860                            | 438.115           | 437.849                           | 438.115          | 438.287           |
| 140.000     | 437.789          | 437.755                            | 438.086           | 437.795                           | 438.086          | 438.268           |
| RTP 148.062 | 437.724          | 437.652                            | 438.056           | 437.711                           | 438.056          | 438.228           |
| 148.745     | 437.719          | 437.642                            |                   | 437.706                           | 438.059          | 438.231           |
| RTP 152.115 | 437.692          | 437.592                            |                   | 437.681                           | 438.076          | 438.248           |
| 162.745     | 437.590          | 437.498                            |                   | 437.608                           | 438.129          | 438.301           |
| 170.000     | 437.532          | 437.486                            |                   | 437.592                           | 438.166          | 438.337           |
| RTP 176.015 | 437.516          | 437.464                            |                   | 437.572                           | 438.196          | 438.367           |
| 178.745     | 437.509          | 437.451                            |                   | 437.585                           | 438.182          | 438.354           |
| RTP 180.068 | 437.505          | 437.445                            | 438.175           | 437.561                           | 438.175          | 438.347           |
| 186.315     | 437.508          | 437.393                            | 438.144           | 437.555                           | 438.144          | 438.316           |
| Ext 192.745 | 437.535          | 437.363                            |                   | 437.583                           |                  | 438.284           |
| 198.815     | 437.543          | 437.351                            |                   | 437.621                           |                  | 438.253           |
| 205.245     | 437.540          | 437.329                            |                   | 437.631                           |                  | 438.221           |
| 211.315     | 437.554          | 437.343                            |                   | 437.694                           |                  | 438.191           |
| 217.745     | 437.586          | 437.327                            |                   | 437.733                           |                  | 438.159           |
| 223.815     | 437.579          | 437.313                            |                   | 437.758                           |                  | 438.128           |
| 230.062     | 437.578          | 437.326                            |                   | 437.770                           |                  | 438.097           |
| 230.245     | 437.578          | 437.327                            |                   | 437.771                           |                  | 438.096           |
| 234.115     | 437.595          | 437.337                            |                   | 437.787                           |                  | 438.077           |
| 244.245     | 437.551          | 437.298                            |                   | 437.752                           |                  | 438.026           |
| 254.602     | 437.511          | 437.295                            |                   | 437.708                           |                  | 437.974           |

CUMBERLAND BOULEVARD LONGITUDINAL SECTION

THIS DRAWING IS NOT TO BE COPIED OR SCALED

|         |                  |          |    |
|---------|------------------|----------|----|
| VERSION | ISSUE TO COUNCIL | 25.03.23 | LP |
| REMARKS |                  |          |    |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**  
 LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING  
 DEVELOPMENT CONSULTING

www.reedsconsulting.com.au  
 engineering@reedsconsulting.com.au  
 Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
 P 03 8660 3000  
 Copyright © Reeds Consulting Pty Ltd All Rights Reserved 2001

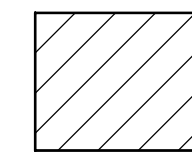
**APPROVED CITY OF BALLARAT**  
 By D. Hastings, 31 May, 2023

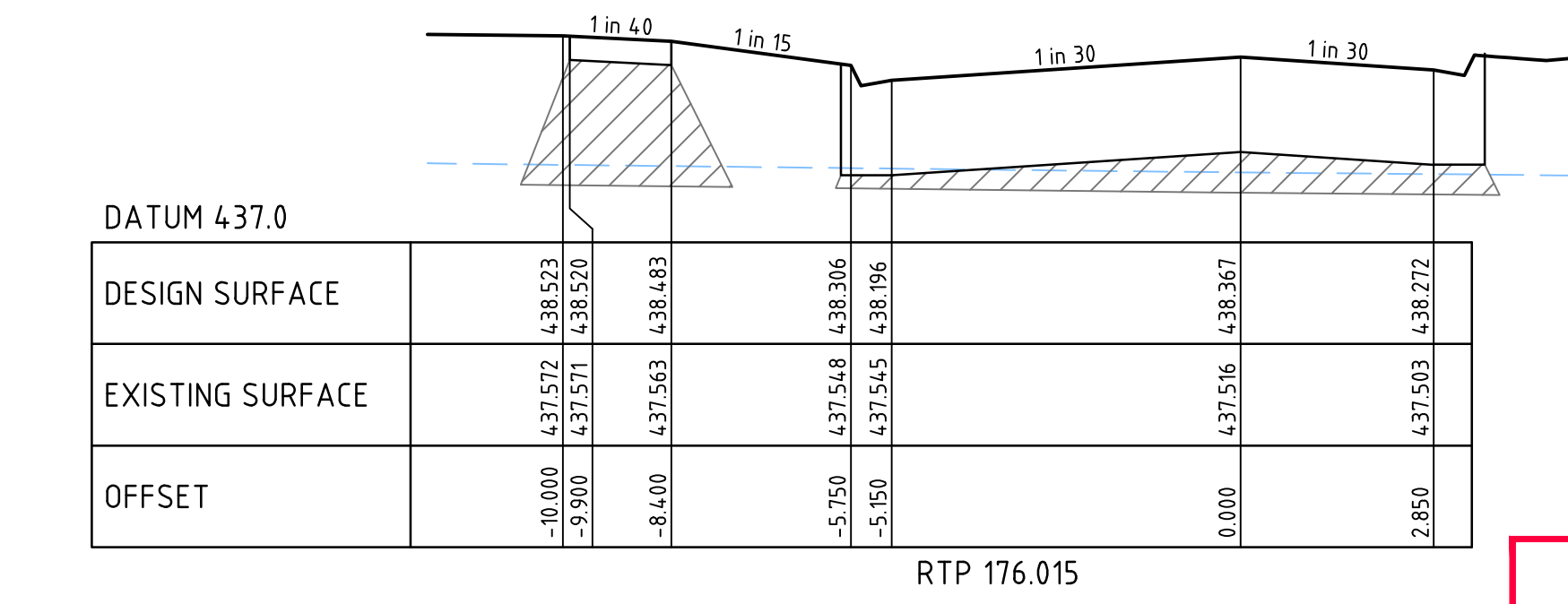
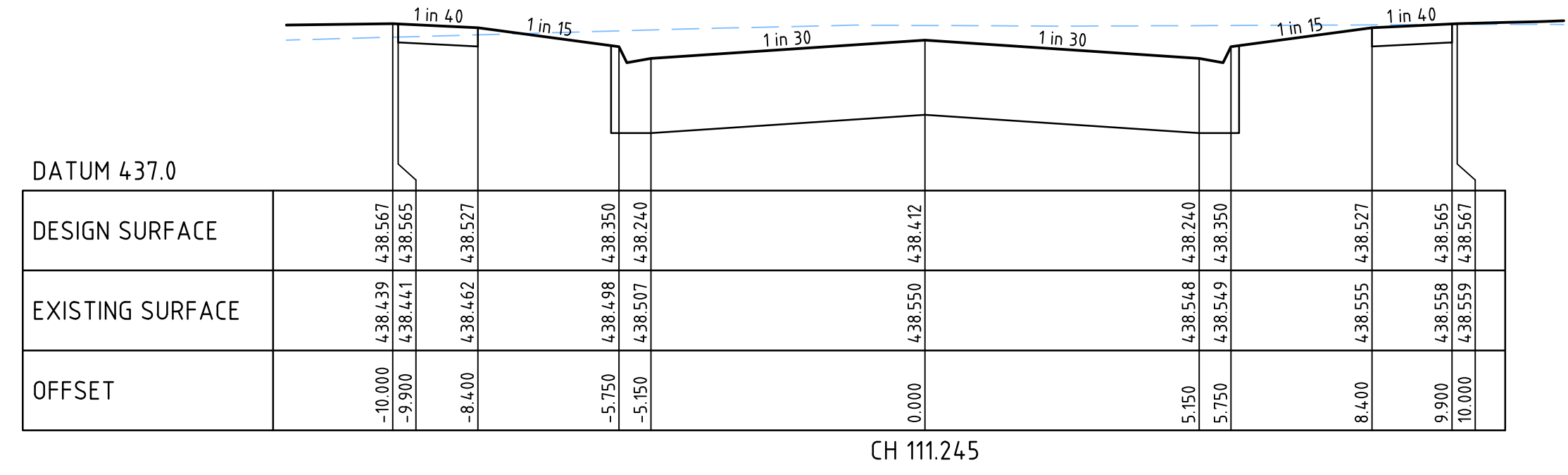
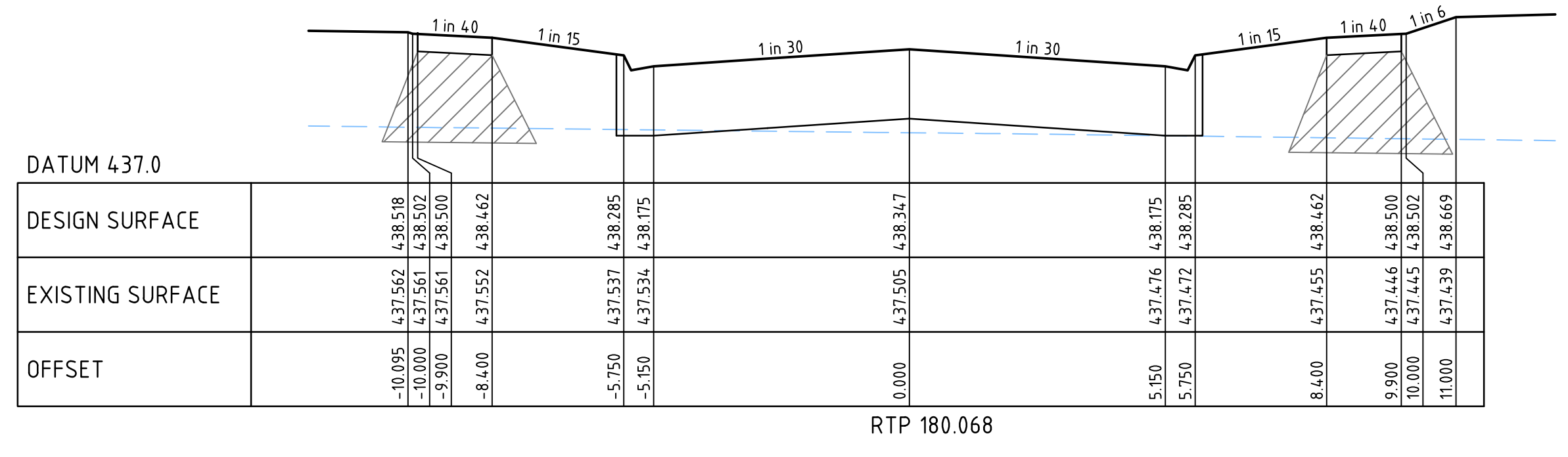
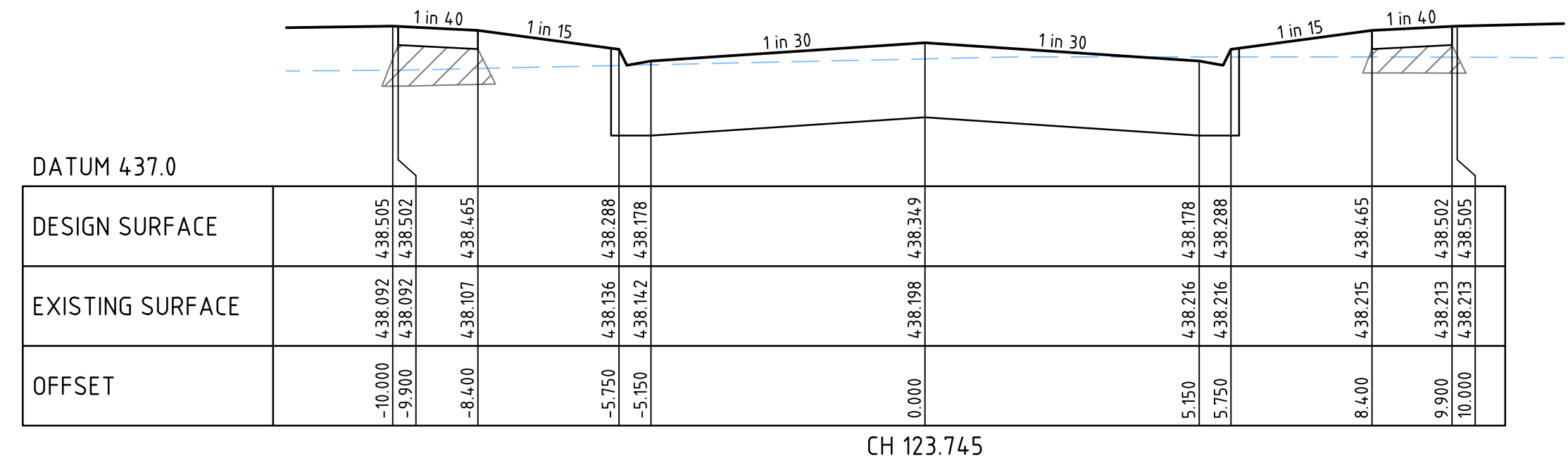
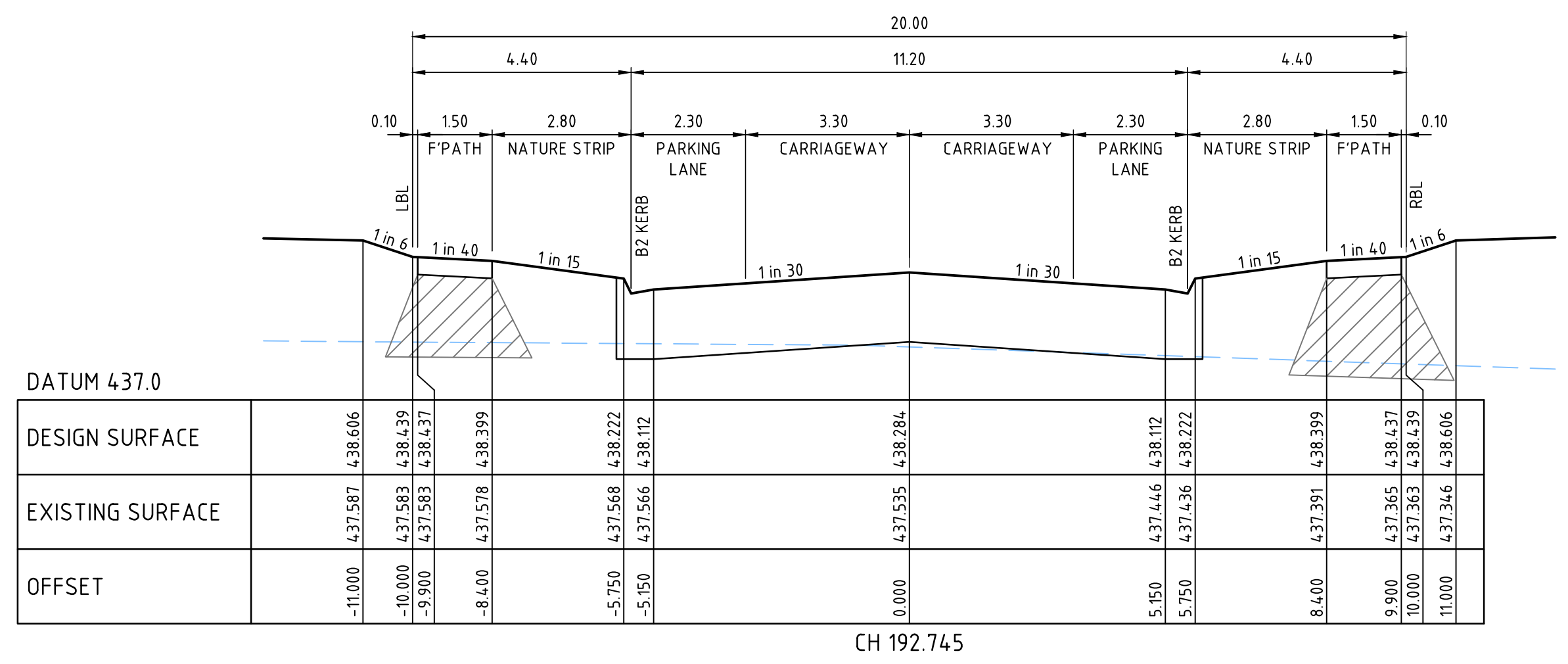
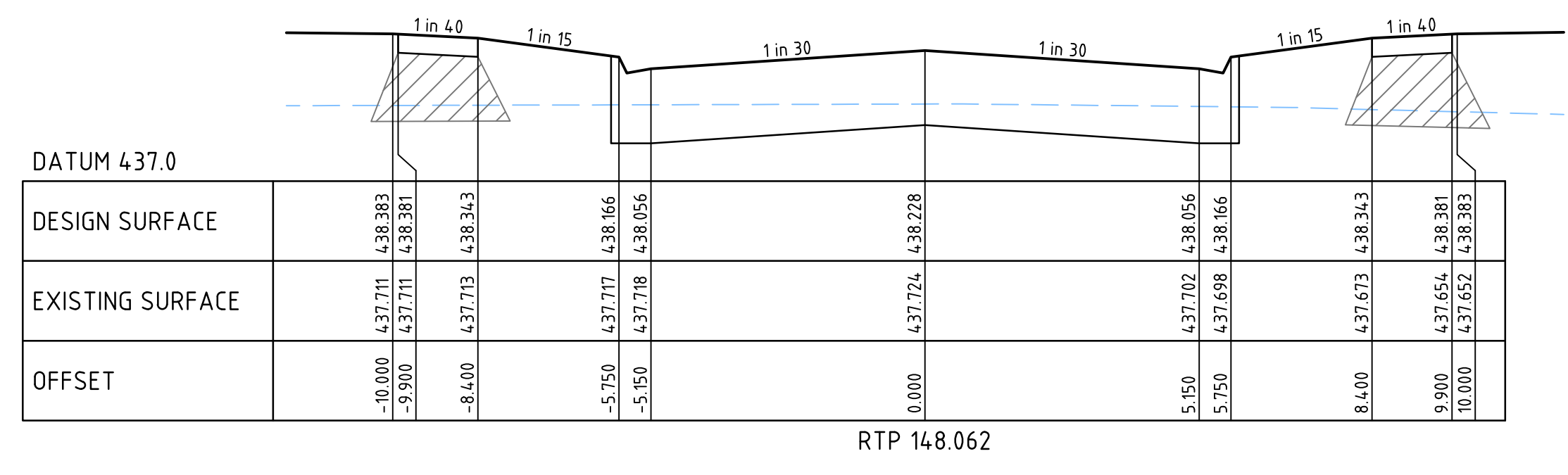
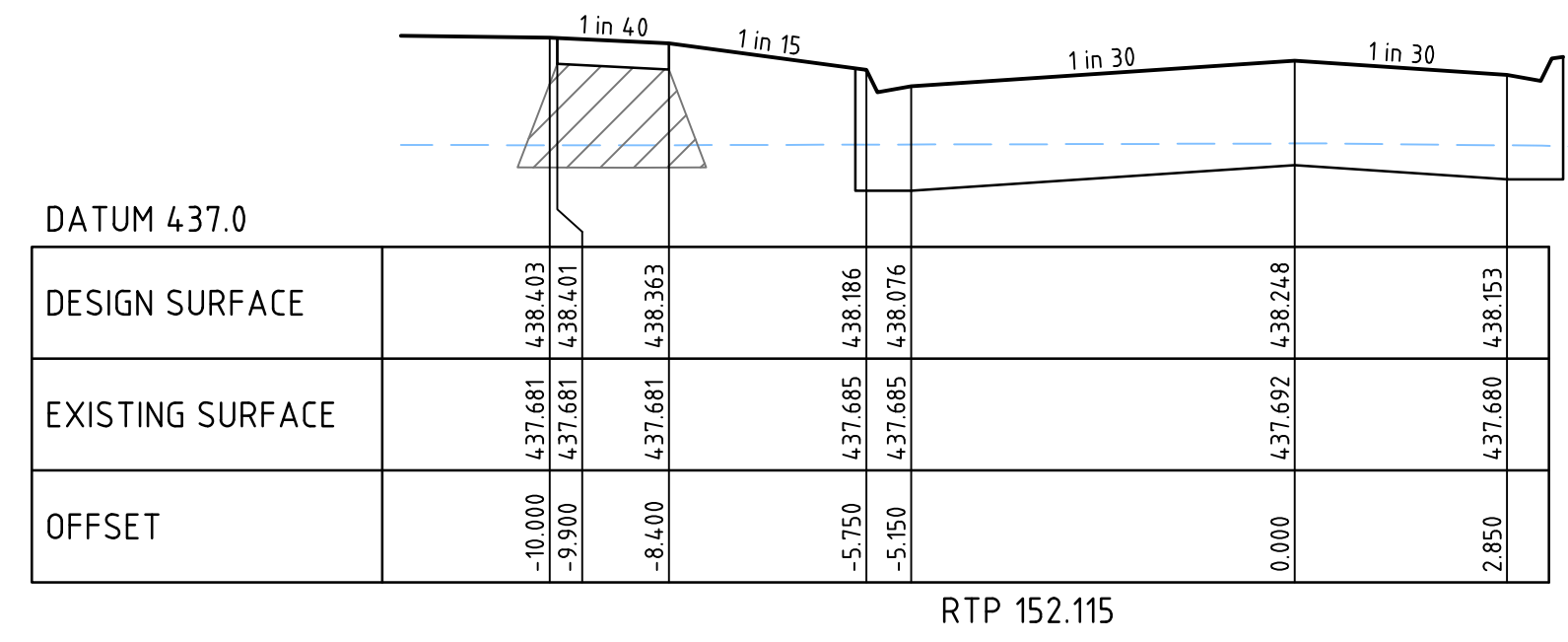
**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

**CITY OF BALLARAT**  
 BALLARAT PLANNING SCHEME  
 Plan Referred to in Permit No. PLP/2015/888  
 dated: 19/04/2017  
 Endorsed by Donna Perera for and on behalf of the City of Ballarat Council.  
 Date: 19/06/2023  
 Sheet No: 3 of 12

|  |  |                            |                     |
|--|--|----------------------------|---------------------|
| CITY OF BALLARAT<br>ALLUVIUM ESTATE, WINTER VALLEY<br>STAGE 6<br>CUMBERLAND BOULEVARD<br>LONGITUDINAL SECTIONS |  | DRAWING No.<br><b>6R3</b>  | VERSION<br><b>A</b> |
|  |  | REFERENCE<br><b>22558E</b> |                     |
|  |  | SHEET<br>3 OF 12           |                     |

 DENOTES CLASS 2 FCR BACKFILL. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1



**CITY OF BALLARAT**  
**BALLARAT PLANNING SCHEME**  
 Plan Referred to in Permit No. PLP/2015/888  
 dated: 19/04/2017

Endorsed by Donna Perera for and on behalf of the City of Ballarat Council.  
 Date: 19/6/2023

Sheet No: 4 of 12

**APPROVED CITY OF BALLARAT**  
 By D. Hastings, 31 May, 2023

**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

|   |                              |
|---|------------------------------|
| THIS DRAWING IS NOT TO BE COPIED OR SCALED              |                              |
| Scale H 1:100 V 1:50 @ A1<br>Scale H 1:200 V 1:100 @ A3 | CROSS SECTION                |
| VERSION   | REMARKS                      |
| A   | ISSUE TO COUNCIL 25.03.23 LP |

|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

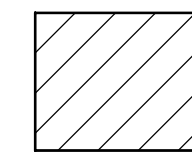
**REEDS CONSULTING**  
 LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING  
 DEVELOPMENT CONSULTING

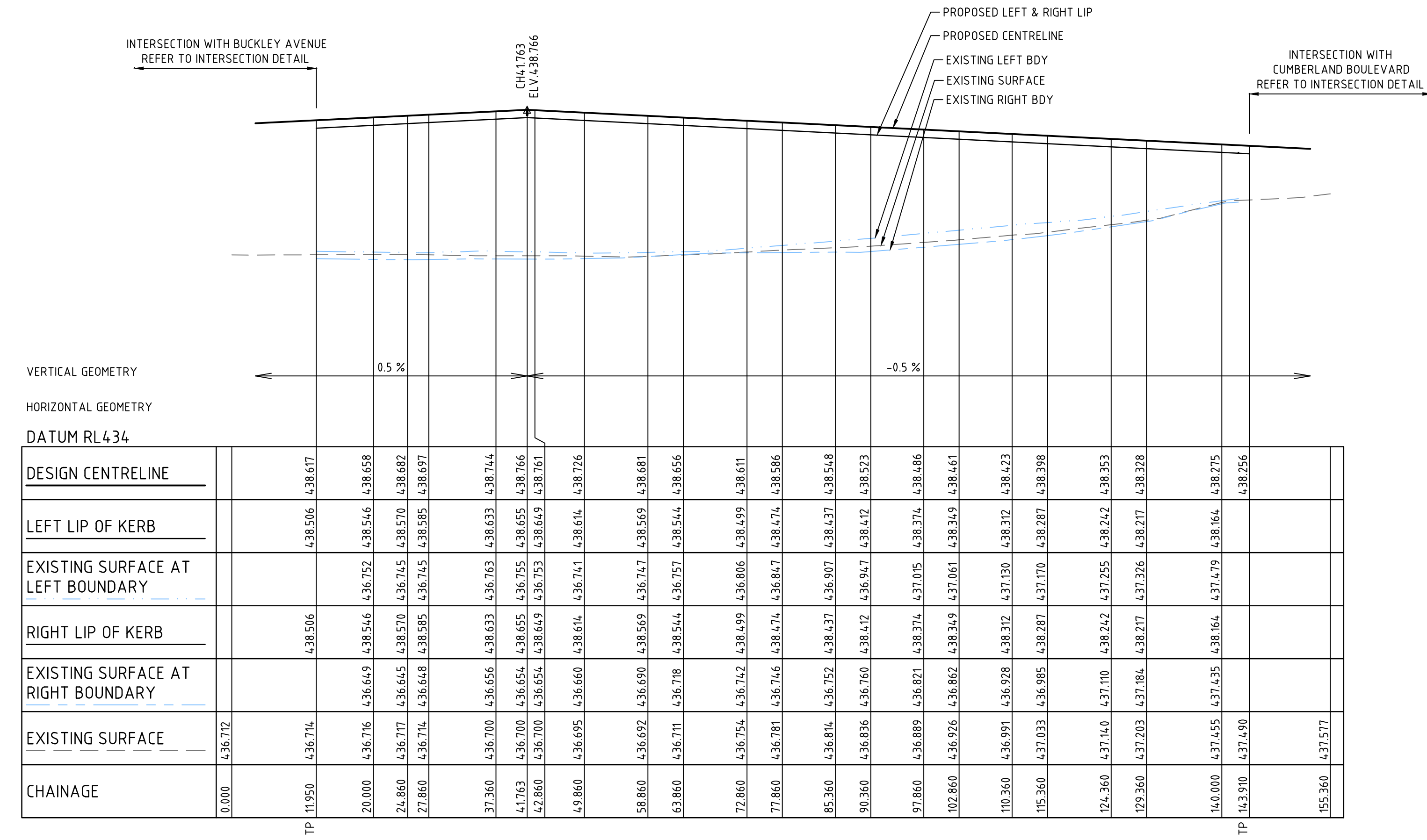
www.reedsconsulting.com.au  
 engineering@reedsconsulting.com.au  
 Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
 p 031 8660 3000  
 Copyright © Reeds Consulting Pty Ltd All Rights Reserved 2001

**CITY OF BALLARAT**  
**ALLUVIUM ESTATE, WINTER VALLEY**  
**STAGE 6**  
**CUMBERLAND BOULEVARD**  
**CROSS SECTIONS**

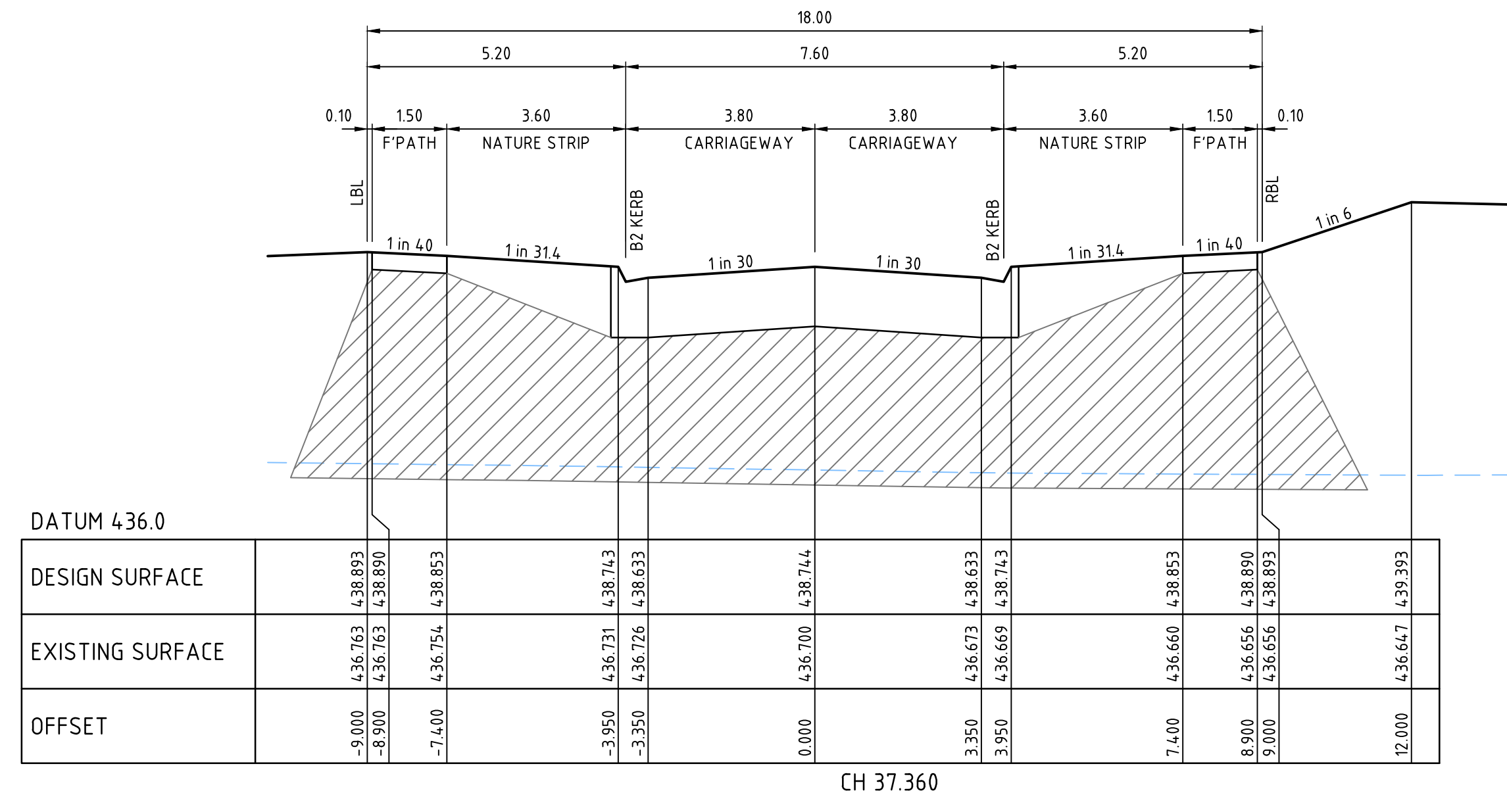
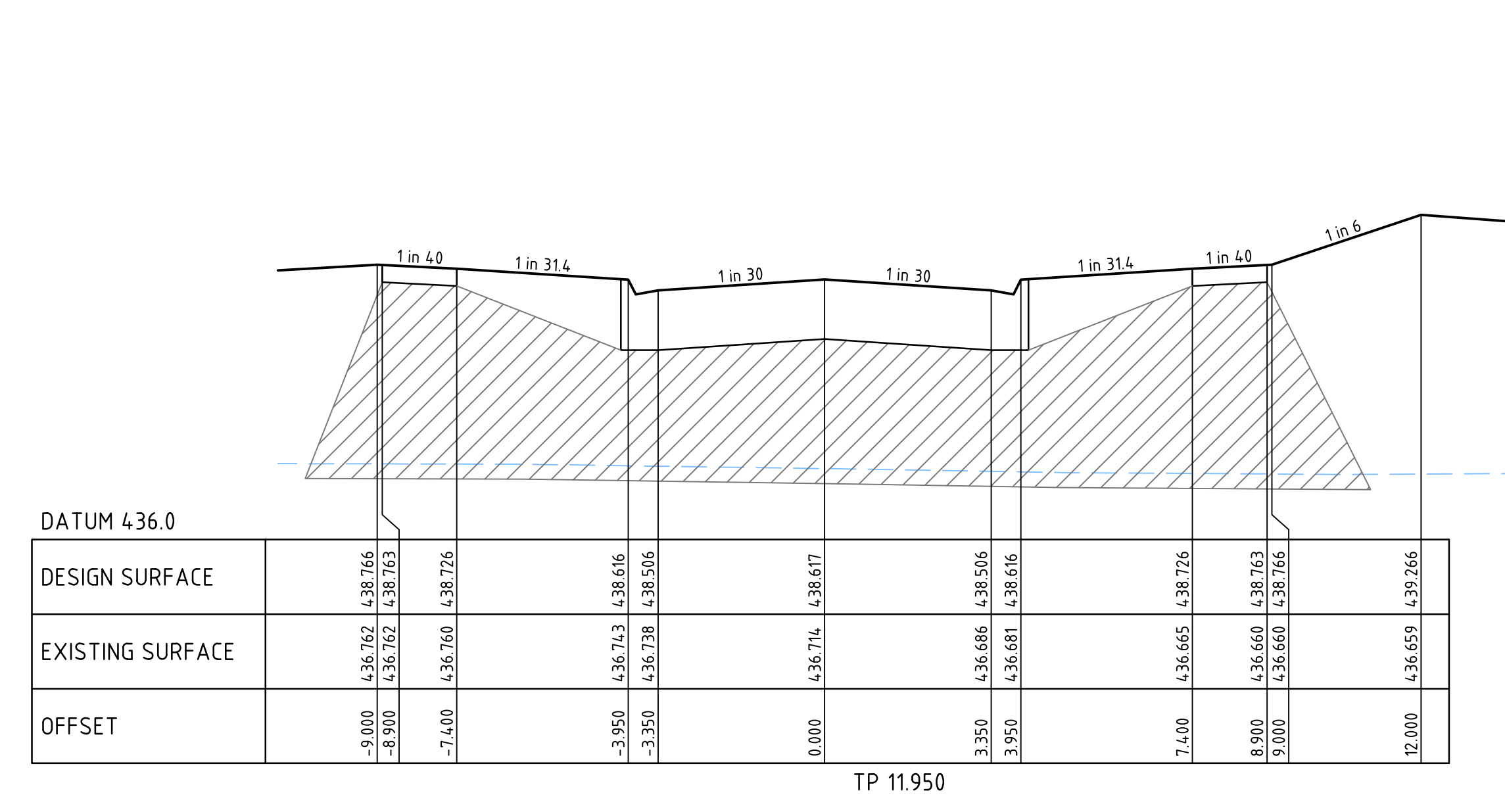
|             |         |         |   |
|-------------|---------|---------|---|
| DRAWING No. | 6R4     | VERSION | A |
| REFERENCE   | 22558E  |         |   |
| SHEET       | 4 OF 12 |         |   |



 DENOTES CLASS 2 FCR BACKFILL, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1



MILANESIA PLACE LONGITUDINAL SECTION



**CITY OF BALLARAT**  
**BALLARAT PLANNING SCHEME**  
 Plan Referred to in Permit No. PLP/2015/888 dated: 19/04/2017  
 Endorsed by **Donna Perera** for and on behalf of the City of Ballarat Council.  
 Date: 19/6/2023  
 Sheet No: 5 of 12

**APPROVED CITY OF BALLARAT**  
 By D. Hastings, 31 May, 2023

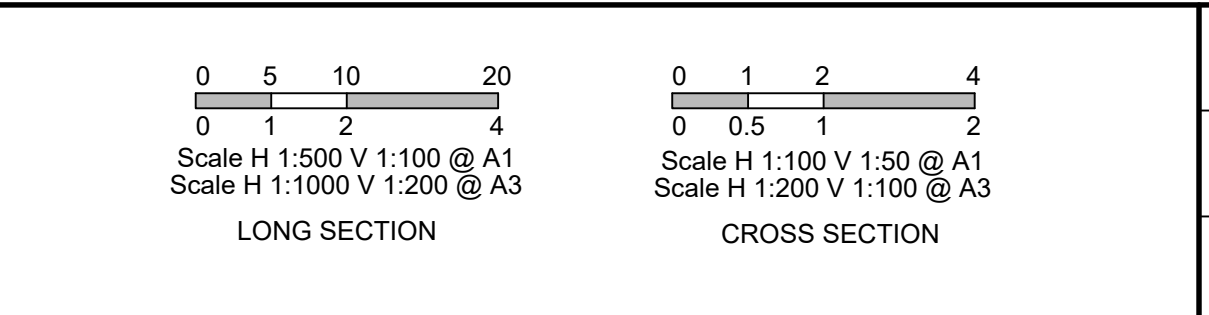
**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558E\_6R5-7 (ROAD LONG & CROSS SECTIONS).DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | ISSUE TO COUNCIL | REMARKS |
|---------|------------------|---------|
| A       | 25.03.23         | LP      |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

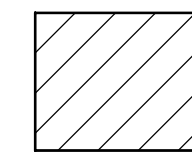
**REEDS CONSULTING**  
 LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING  
 DEVELOPMENT CONSULTING  
 www.reedsconsulting.com.au  
 engineering@reedsconsulting.com.au  
 Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
 p 031 8660 3000  
 Copyright © Reeds Consulting Pty Ltd All Rights Reserved 2001

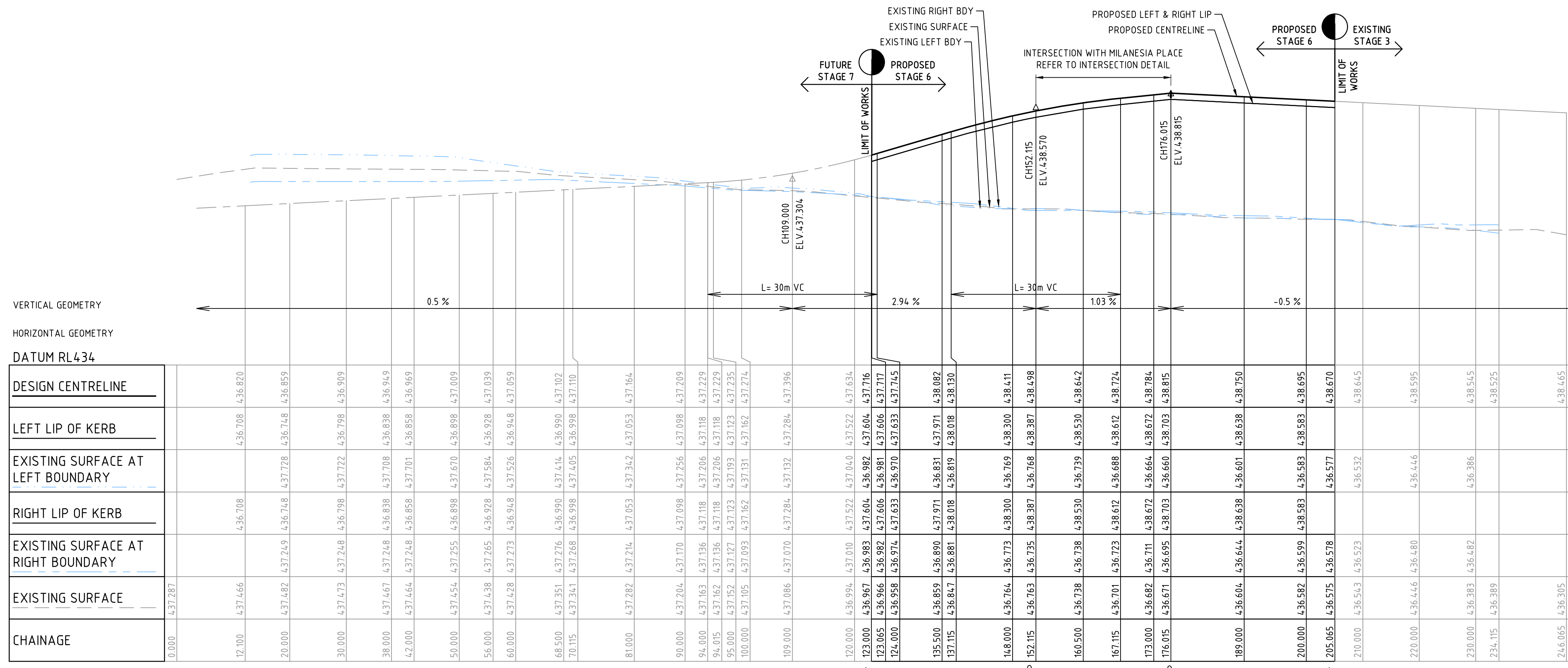
**CITY OF BALLARAT**  
**ALLUVIUM ESTATE, WINTER VALLEY**  
**STAGE 6**  
**MILANESIA PLACE**  
 LONGITUDINAL & CROSS SECTIONS - 1

|             |         |         |   |
|-------------|---------|---------|---|
| DRAWING No. | 6R5     | VERSION | A |
| REFERENCE   | 22558E  |         |   |
| SHEET       | 5 OF 12 |         |   |



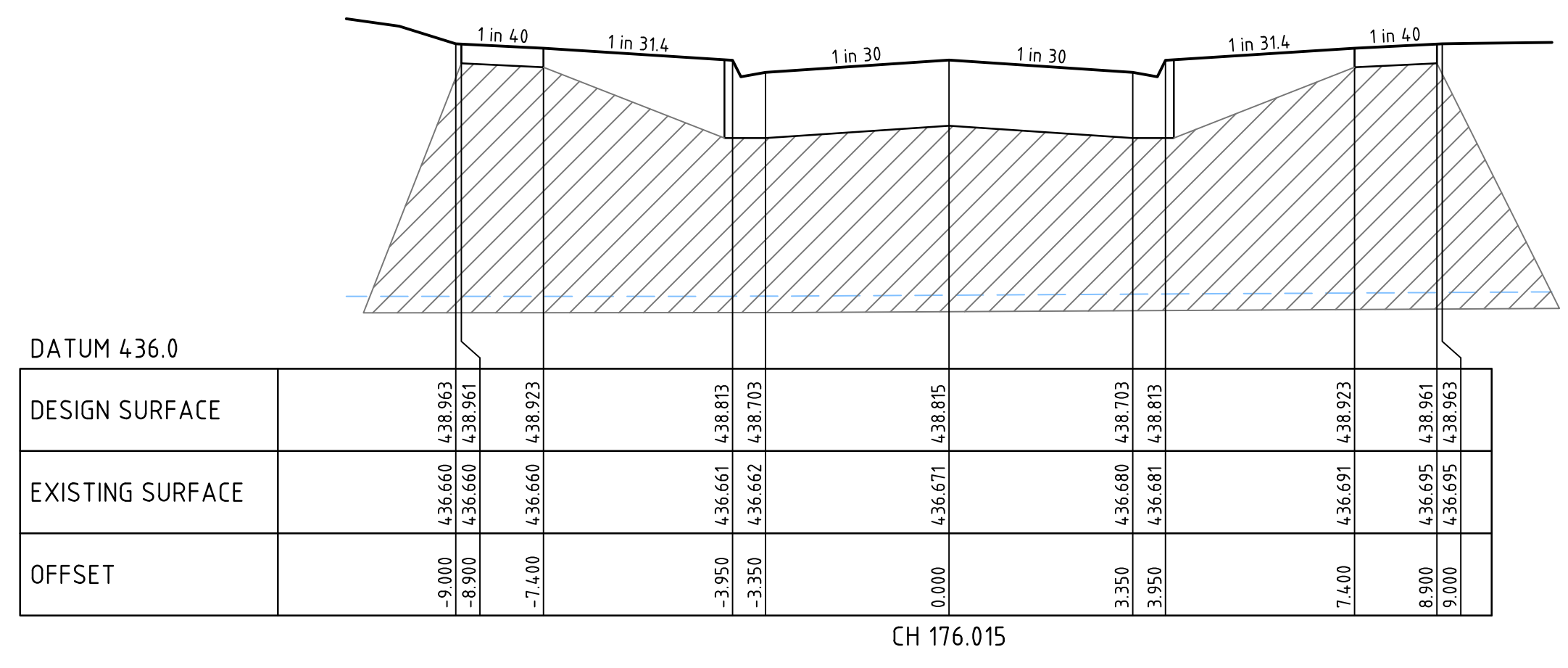
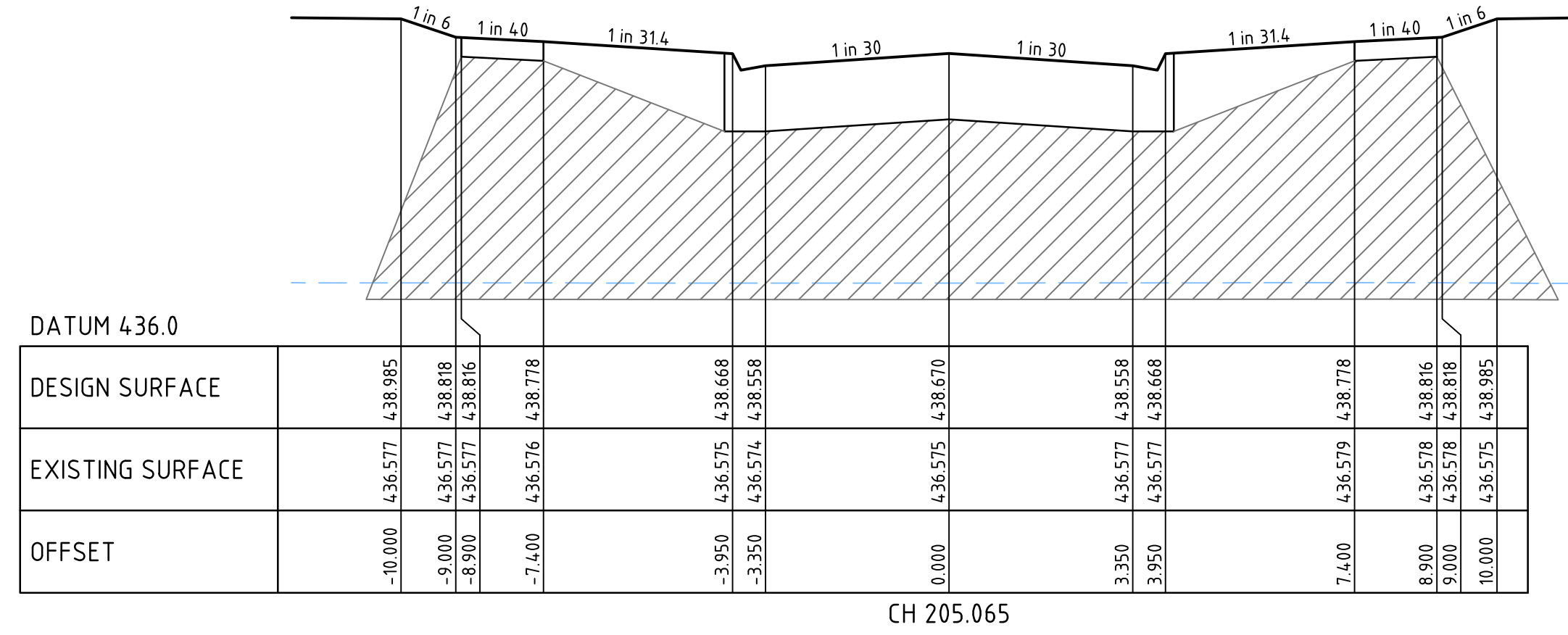
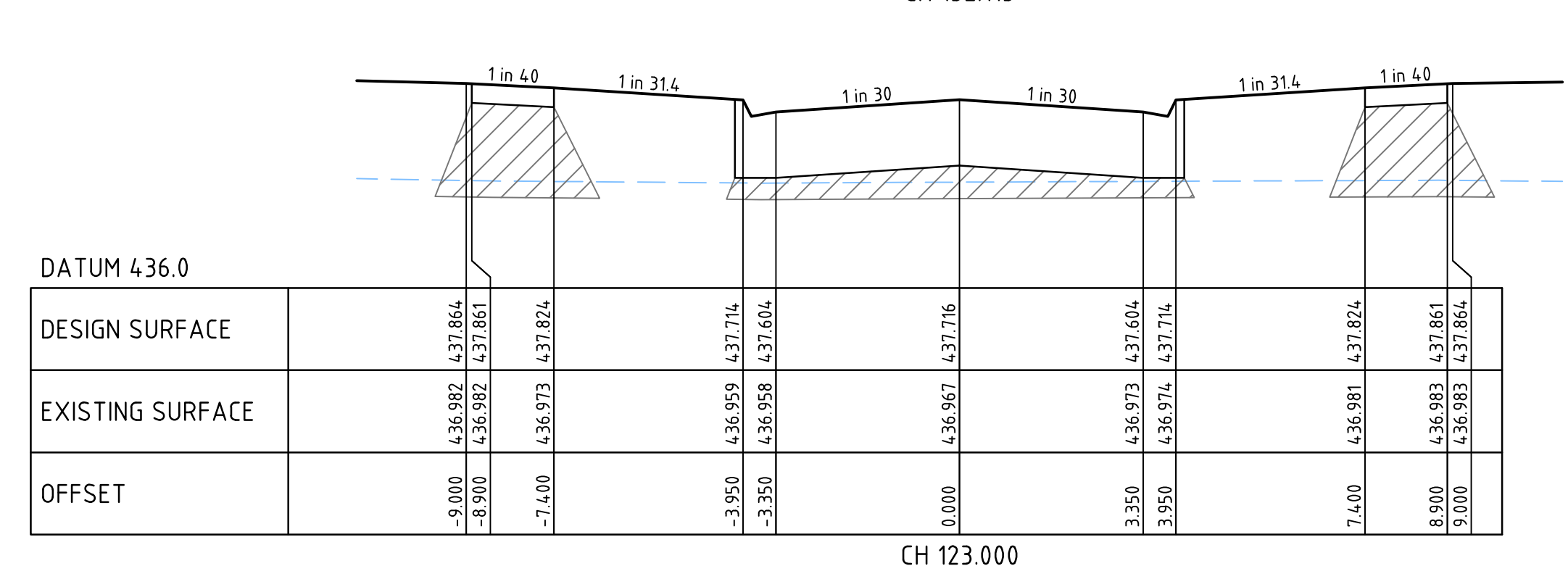
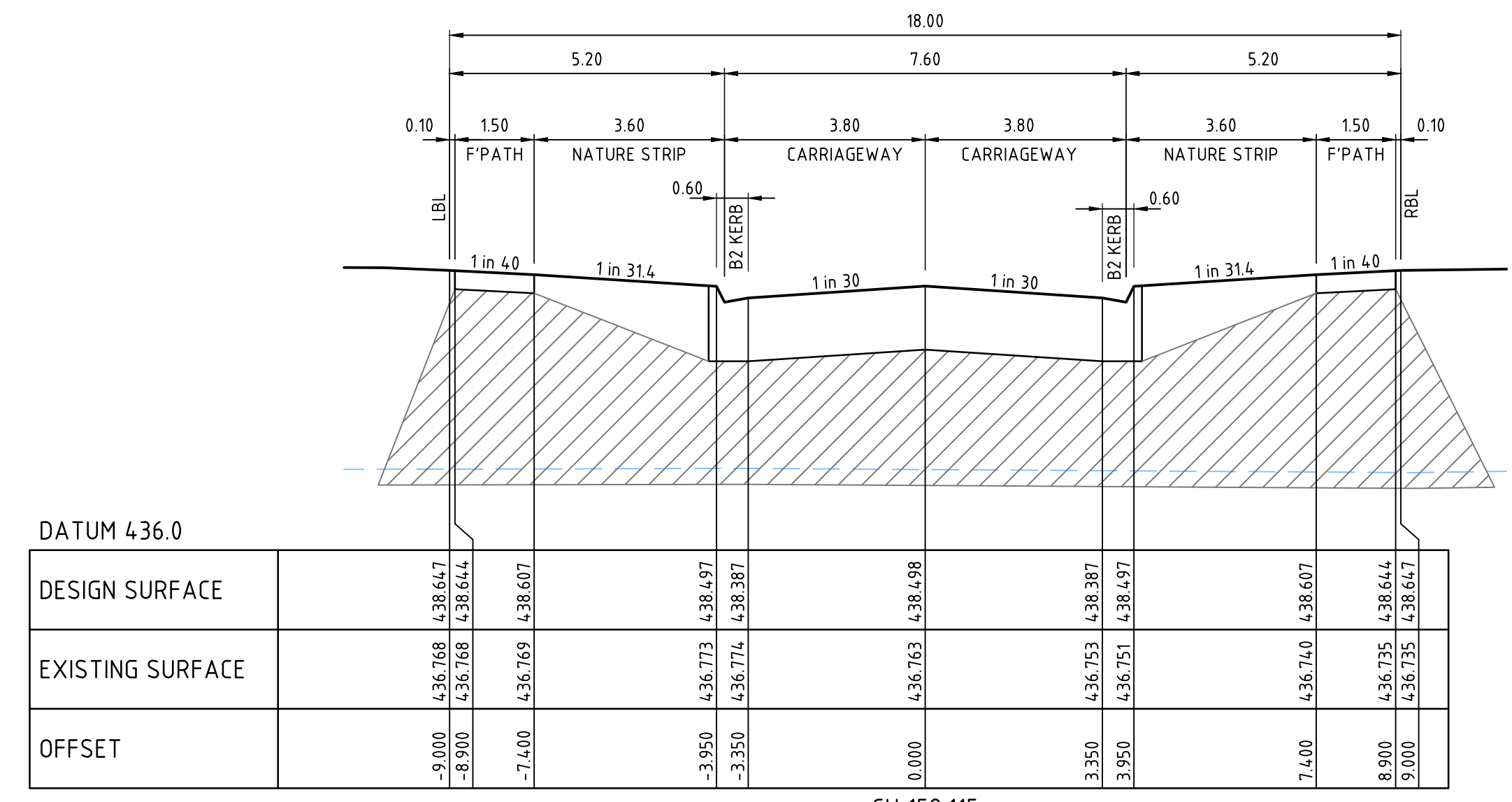


 DENOTES CLASS 2 FCR BACKFILL, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1



BUCKLEY AVENUE LONGITUDINAL SECTION

**APPROVED** CITY OF BALLARAT  
 By D. Hastings, 31 May, 2023



CITY OF BALLARAT  
**BALLARAT PLANNING SCHEME**  
 Plan Referred to in Permit No. PLP/2015/888  
 dated: 19/04/2017  
 Endorsed by Donna Perera for and on behalf of the City of Ballarat Council.  
 Date: 19/6/2023  
 Sheet No: 7 of 12

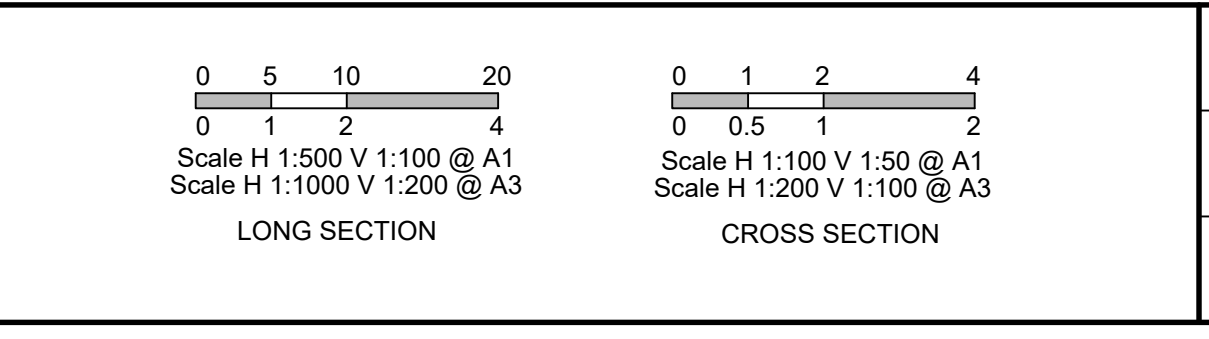
**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

H:\22558\STAGE 6\CAD\DWG\SET\ROAD AND DRAINAGE\22558\_6R3-7 (ROAD LONG & CROSS SECTIONS).DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | ISSUE TO COUNCIL | REMARKS |
|---------|------------------|---------|
| A       | 25.03.23         | LP      |



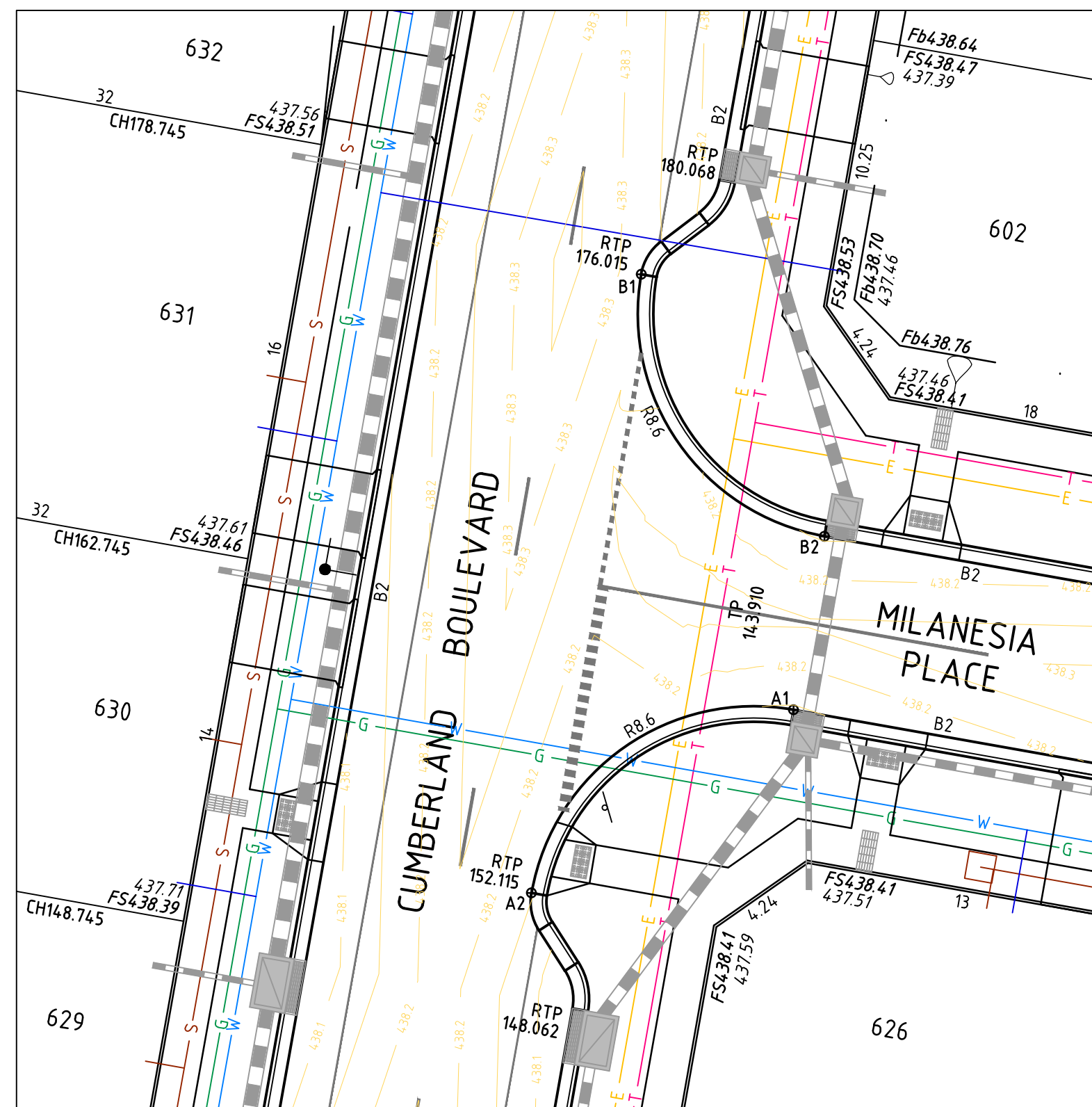
|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**  
 LAND SURVEYING CIVIL ENGINEERING PLANNING DEVELOPMENT CONSULTING  
 www.reedsconsulting.com.au  
 Level 6, 440 Elizabeth Street Melbourne Victoria 3000  
 p 031 8660 3000

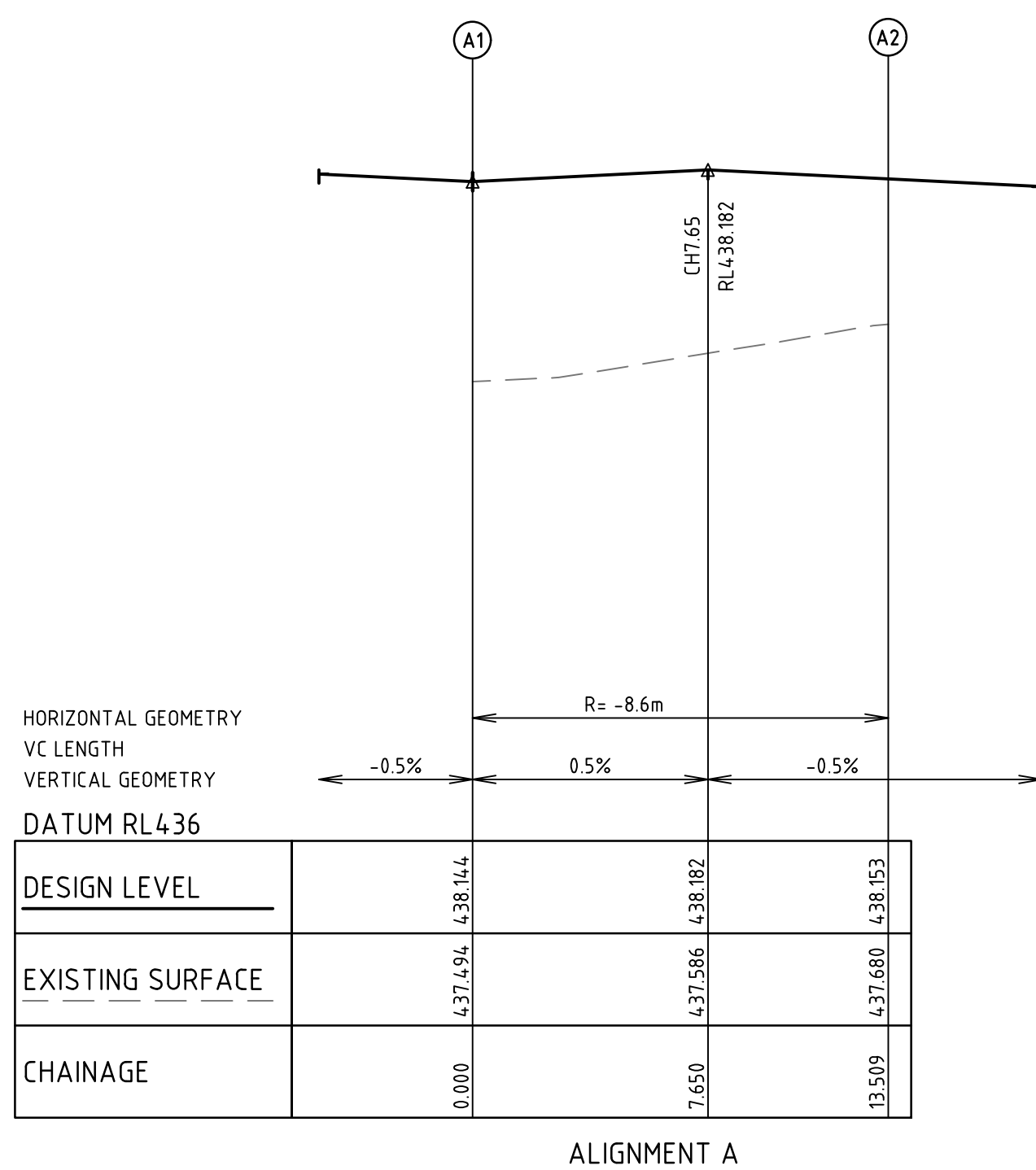
CITY OF BALLARAT  
**ALLUVIUM ESTATE, WINTER VALLEY**  
**STAGE 6**  
**BUCKLEY AVENUE**  
 LONGITUDINAL & CROSS SECTIONS

|             |        |         |    |
|-------------|--------|---------|----|
| DRAWING No. | 6R7    | VERSION | A  |
| REFERENCE   | 22558E |         |    |
| SHEET       | 7      | OF      | 12 |

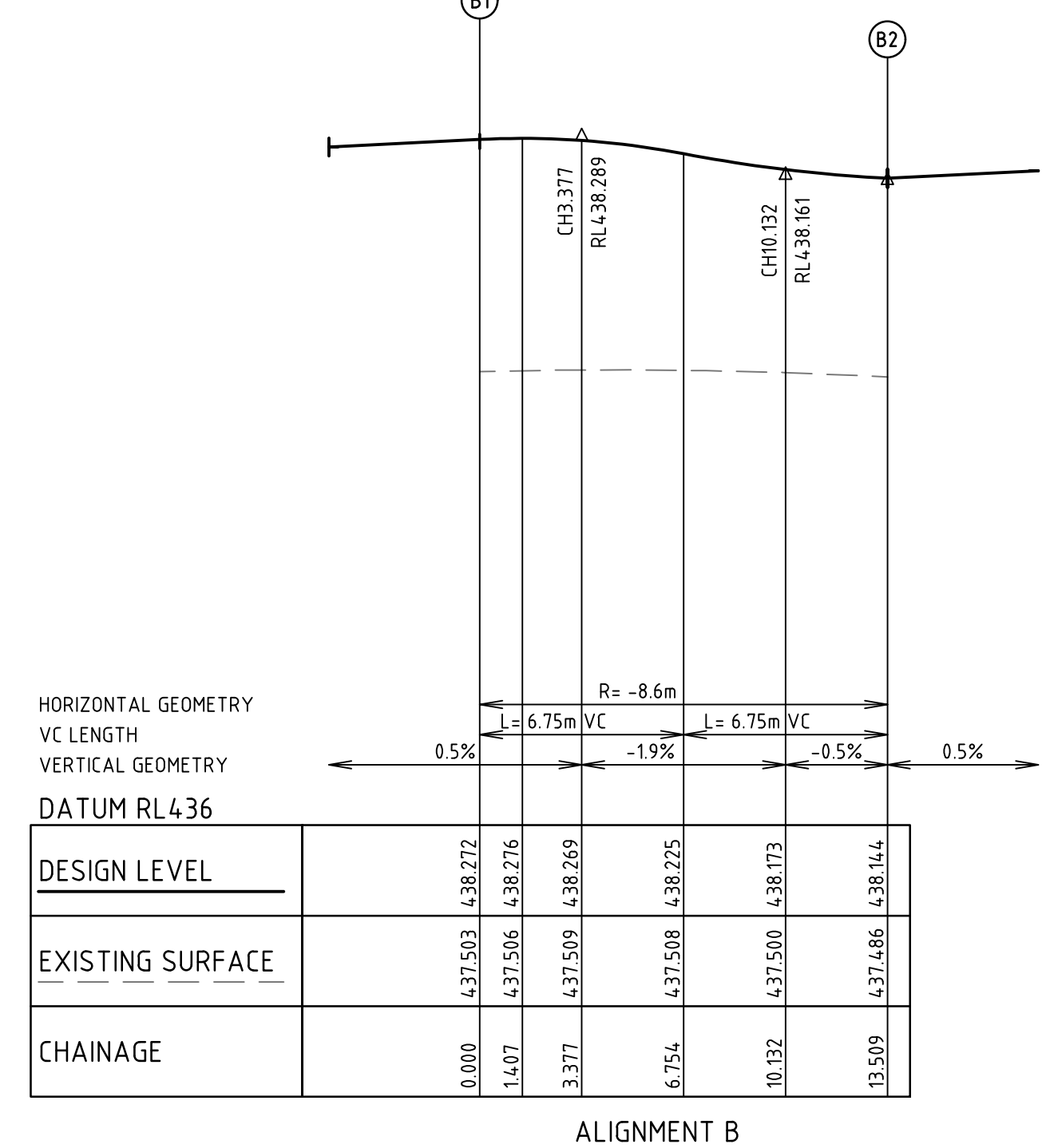




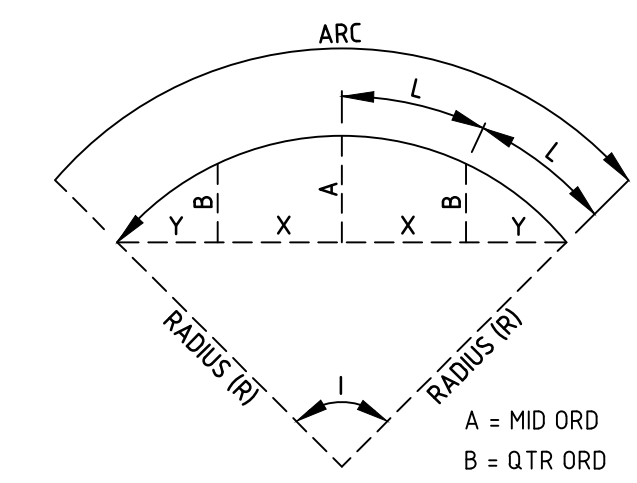
CUMBERLAND BOULEVARD & MILANESIA PLACE INTERSECTION DETAIL



ALIGNMENT A



ALIGNMENT B



CURVE SETOUT KEY

1. ALL DIMENSIONS, SETOUT POINTS AND RADII REFER TO LIP OF KERB, UNLESS NOTED OTHERWISE

LEGEND

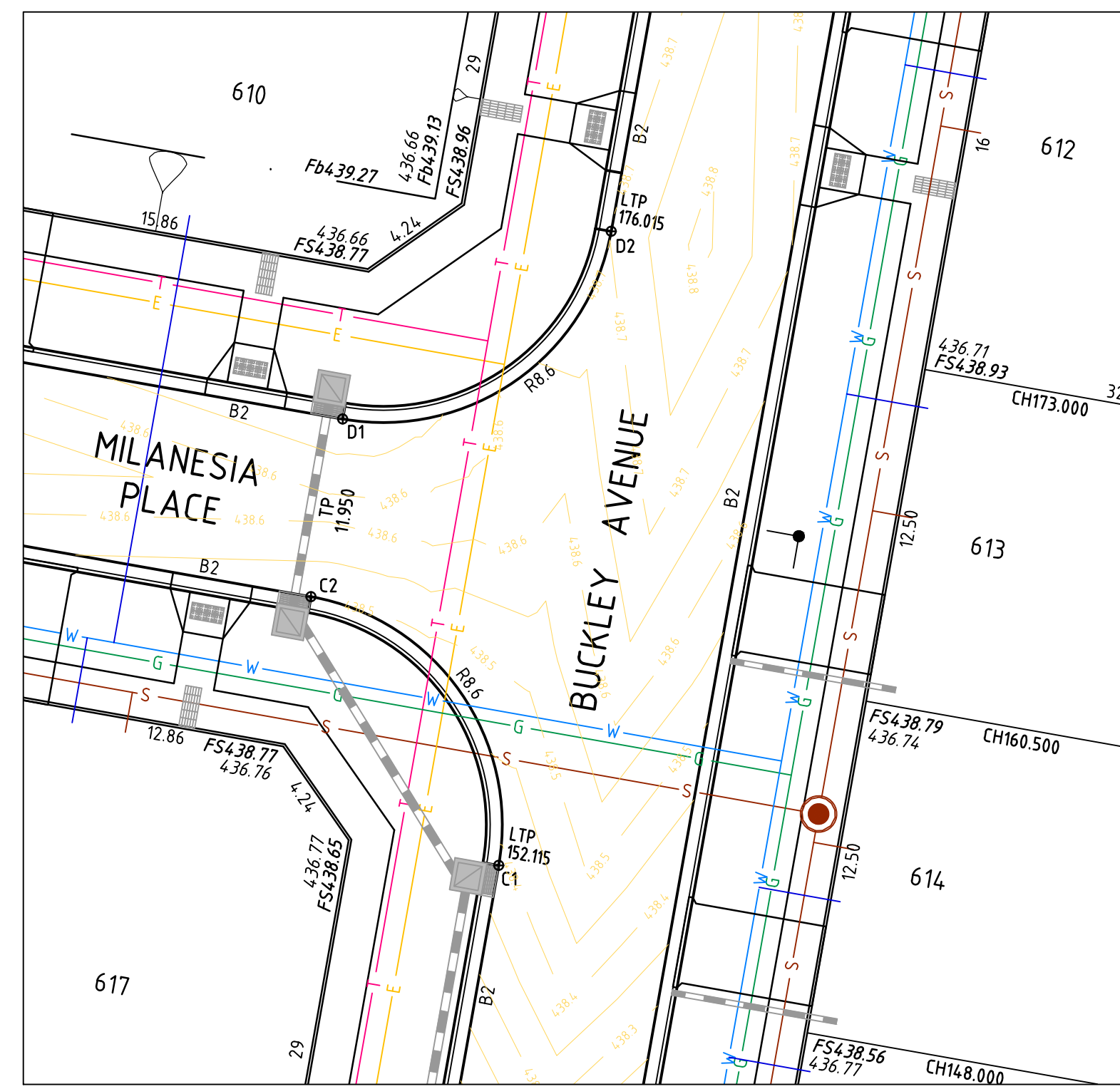
- A1e ALIGNMENT SETOUT POINT
- TGSI TACTILE GROUND SURFACE INDICATORS (TGSI) - REFER COUNCIL STD SD 3-1 & AS1428.4
- TGSI LATERAL MARKER
- TGSI DIRECTIONAL MARKER
- TGSI WARNING MARKER

**CITY OF BALLARAT**

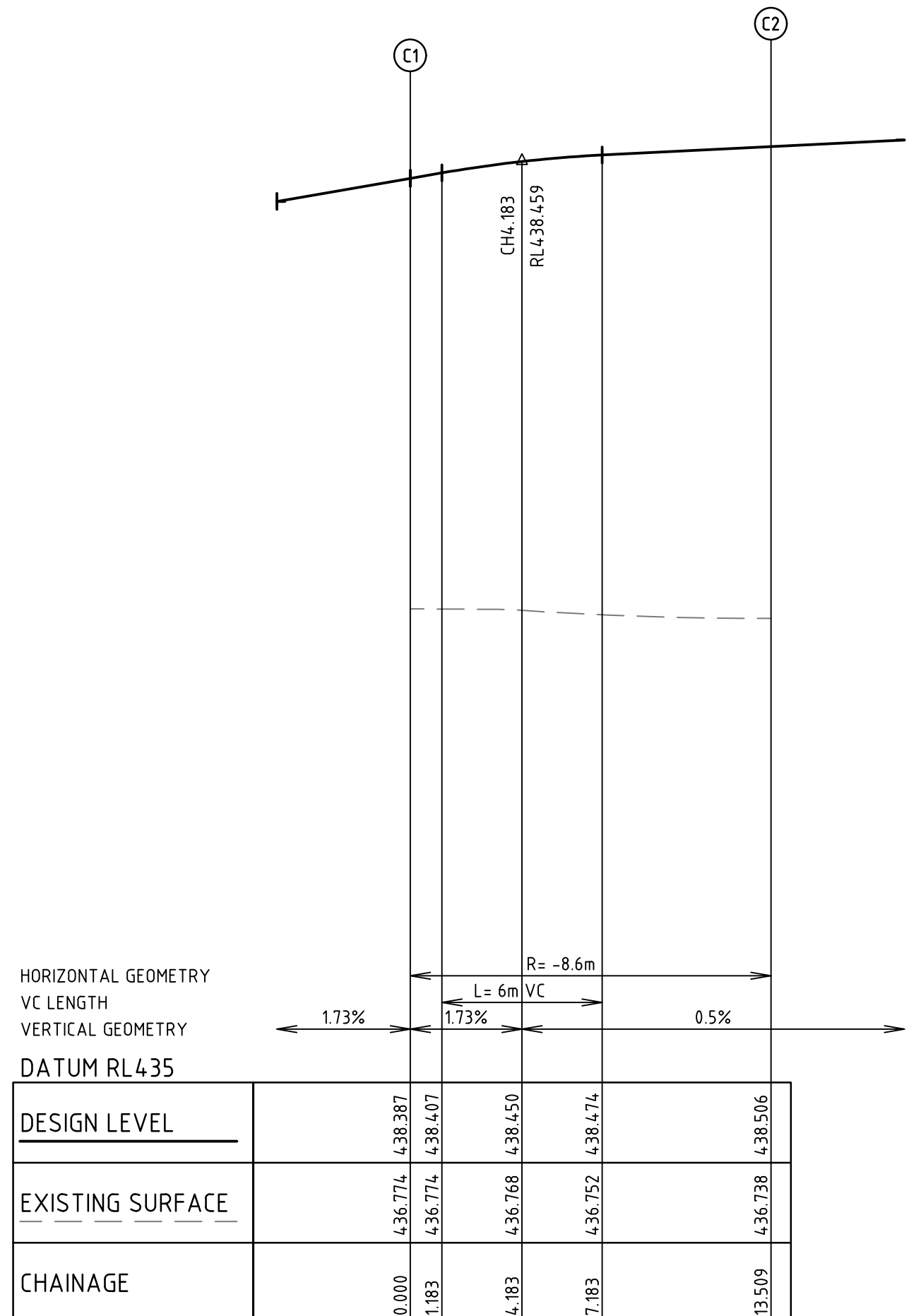
**BALLARAT PLANNING SCHEME**  
Plan Referred to in Permit No. PLP/2015/888  
dated: 19/04/2017

Endorsed by **Donna Perera** for and on behalf of the City of Ballarat Council.  
Date: 19/6/2023

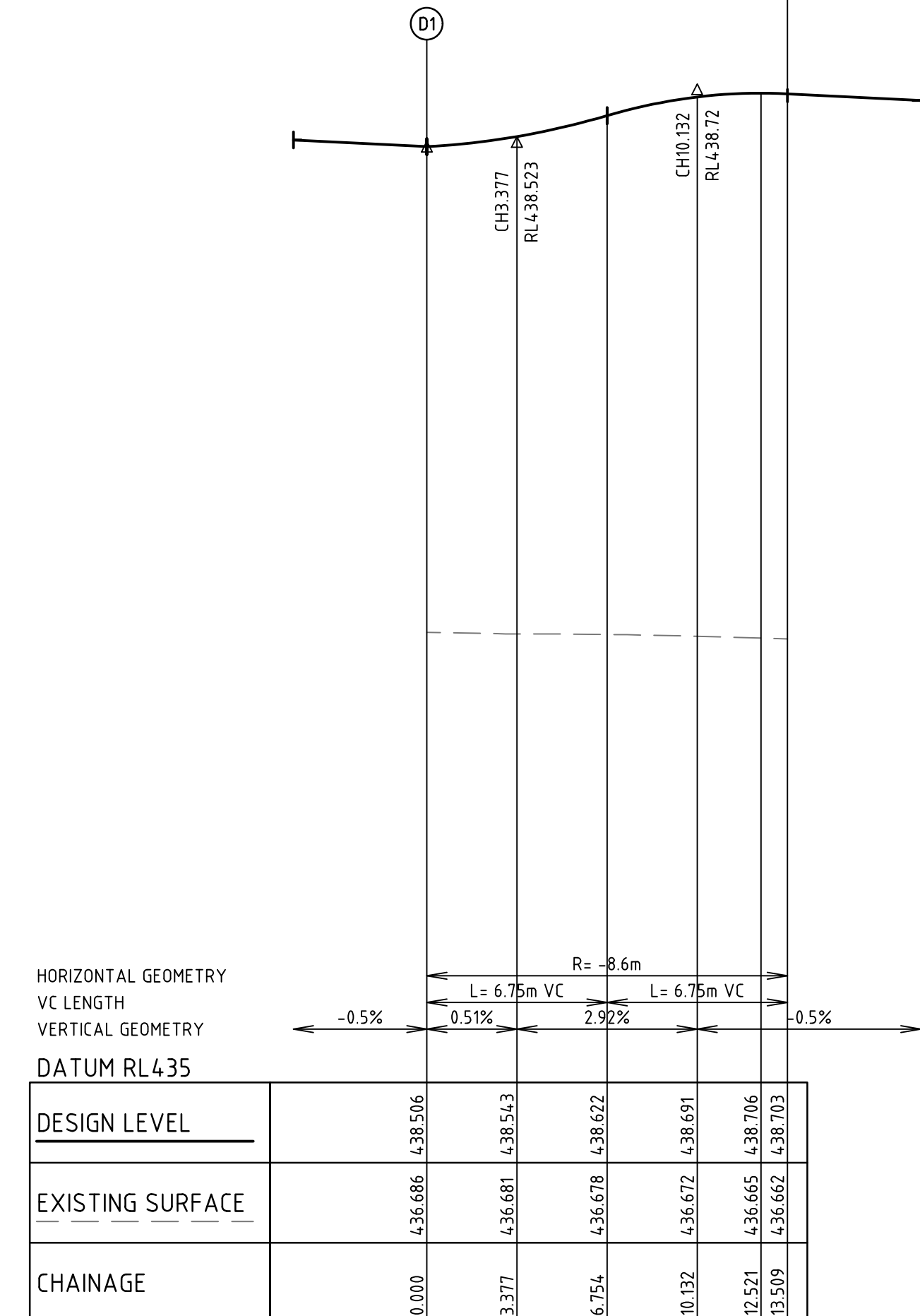
Sheet No: 8 of 12



BUCKLEY AVENUE & MILANESIA PLACE INTERSECTION DETAIL



ALIGNMENT C



ALIGNMENT D

**Alignment A**

| Point no | Easting    | Northing    | RL       |
|----------|------------|-------------|----------|
| A1       | 746710.749 | 5837915.960 | 4.38.144 |
| A2       | 746700.779 | 5837908.995 | 4.38.153 |

**Curve no** | **I** | **Radius** | **Arc** | **A** | **B** | **X** | **Y** | **I** | **Mid point RL**

A1 - A2 | 90.000 | 8.600 | 13.509 | 2.519 | 1.864 | 3.291 | 2.790 | 3.377 | 4.38.178

**Alignment B**

| Point no | Easting    | Northing    | RL       |
|----------|------------|-------------|----------|
| B1       | 746704.955 | 5837932.527 | 4.38.272 |
| B2       | 746711.920 | 5837922.557 | 4.38.144 |

**Curve no** | **I** | **Radius** | **Arc** | **A** | **B** | **X** | **Y** | **I** | **Mid point RL**

B1 - B2 | 90.000 | 8.600 | 13.509 | 2.519 | 1.864 | 3.291 | 2.790 | 3.377 | 4.38.225

**Alignment C**

| Point no | Easting     | Northing    | RL       |
|----------|-------------|-------------|----------|
| C1       | 74684.7645  | 5837882.937 | 4.38.387 |
| C2       | 74684.0.680 | 5837892.907 | 4.38.506 |

**Curve no** | **I** | **Radius** | **Arc** | **A** | **B** | **X** | **Y** | **I** | **Mid point RL**

C1 - C2 | 90.000 | 8.600 | 13.509 | 2.519 | 1.864 | 3.291 | 2.790 | 3.377 | 4.38.472

**Alignment D**

| Point no | Easting    | Northing    | RL       |
|----------|------------|-------------|----------|
| D1       | 74684.1851 | 5837899.504 | 4.38.506 |
| D2       | 74685.1821 | 5837906.469 | 4.38.703 |

**Curve no** | **I** | **Radius** | **Arc** | **A** | **B** | **X** | **Y** | **I** | **Mid point RL**

D1 - D2 | 90.000 | 8.600 | 13.509 | 2.519 | 1.864 | 3.291 | 2.790 | 3.377 | 4.38.622

**WARNING**

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

APPROVED CITY OF BALLARAT

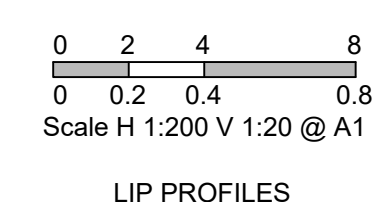
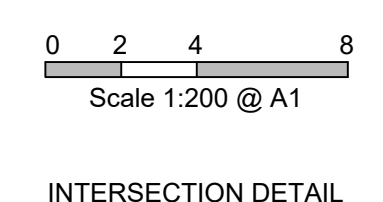
By D. Hastings, 31 May, 2023

**PRELIMINARY PLAN ONLY**

NOT APPROVED FOR CONSTRUCTION

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | ISSUE TO COUNCIL | REMARKS |
|---------|------------------|---------|
| A       | 25.03.23         | LP      |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**

LAND SURVEYING  
CIVIL ENGINEERING  
PLANNING  
DEVELOPMENT CONSULTING

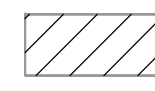
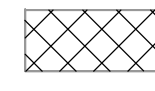
www.reedsconsulting.com.au | Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
engineering@reedsconsulting.com.au | p 031 8660 3000

CITY OF BALLARAT  
ALLUVIUM ESTATE, WINTER VALLEY  
STAGE 6  
INTERSECTION DETAILS AND LIP PROFILE






|             |         |         |   |
|-------------|---------|---------|---|
| DRAWING No. | 6R8     | VERSION | A |
| REFERENCE   | 22558E  |         |   |
| SHEET       | 8 OF 12 |         |   |



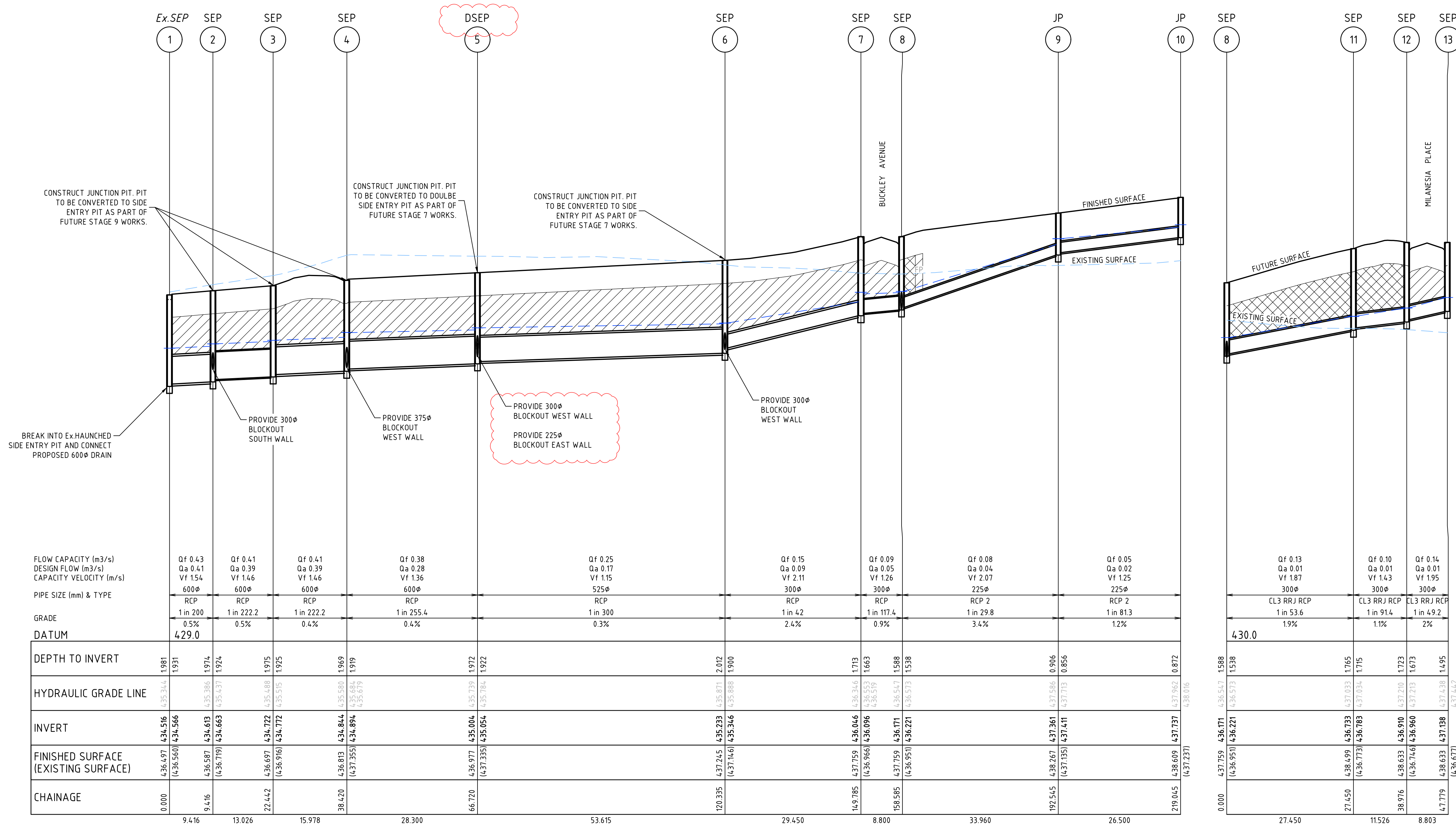
**DRAINAGE BACKFILL.**  
(REFER TO BALLARAT SD-D8-1)

-  STORMWATER DRAINS UNDER PAVEMENTS, FOOTPATHS AND DRIVEWAYS TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION A. ROAD PAVEMENT
-  STORMWATER DRAINS BEHIND KERB TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION B. ROAD SHOULDER
- DW DRIVEWAY
- FP FOOTPATH

**LEGEND**

-  EXISTING SURFACE
-  FINISHED SURFACE
-  FUTURE SURFACE
-  HYDRAULIC GRADE LINE QS
-  CLASS 3 FCR BACKFILL (REFER "DRAINAGE TRENCH BACKFILL" DETAIL BELOW).

NOTE 1.  
225Ø DIA. PIPES ARE TO BE EITHER CLASS 3 RRJ RCP'S OR STORMPRO OR BLACKMAX PIPES



|                                     | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | 8                | 11               | 12               | 13         |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------------|------------------|------------|
| FLOW CAPACITY (m3/s)                | Qf 0.43    | Qf 0.41    | Qf 0.41    | Qf 0.41    | Qf 0.38    | Qf 0.25    | Qf 0.15    | Qf 0.09    | Qf 0.08    | Qf 0.05    | Qf 0.13          | Qf 0.10          | Qf 0.14          |            |
| DESIGN FLOW (m3/s)                  | Qa 0.41    | Qa 0.39    | Qa 0.39    | Qa 0.39    | Qa 0.28    | Qa 0.17    | Qa 0.09    | Qa 0.05    | Qa 0.04    | Qa 0.02    | Qa 0.01          | Qa 0.01          | Qa 0.01          |            |
| CAPACITY VELOCITY (m/s)             | Vf 1.54    | Vf 1.46    | Vf 1.46    | Vf 1.46    | Vf 1.36    | Vf 1.15    | Vf 2.11    | Vf 1.26    | Vf 2.07    | Vf 1.25    | Vf 1.87          | Vf 1.43          | Vf 1.95          |            |
| PIPE SIZE (mm) & TYPE               | 600Ø RCP   | 600Ø RCP   | 600Ø RCP   | 600Ø RCP   | 600Ø RCP   | 525Ø RCP   | 300Ø RCP   | 300Ø RCP   | 225Ø RCP 2 | 225Ø RCP 2 | 300Ø CL3 RRJ RCP | 300Ø CL3 RRJ RCP | 300Ø CL3 RRJ RCP |            |
| GRADE                               | 1 in 200   | 1 in 222.2 | 1 in 222.2 | 1 in 222.2 | 1 in 255.4 | 1 in 300   | 1 in 42    | 1 in 117.4 | 1 in 29.8  | 1 in 81.3  | 1 in 53.6        | 1 in 91.4        | 1 in 49.2        |            |
| DATUM                               | 0.5%       | 0.5%       | 0.4%       | 0.4%       | 0.4%       | 0.3%       | 2.4%       | 0.9%       | 3.4%       | 1.2%       | 1.9%             | 1.1%             | 2%               |            |
| DEPTH TO INVERT                     | 1.981      | 1.931      | 1.974      | 1.925      | 1.972      | 2.012      | 1.713      | 1.663      | 1.588      | 0.906      | 1.588            | 1.765            | 1.715            | 1.723      |
| HYDRAULIC GRADE LINE                | 4.35.34.4  | 4.35.56.6  | 4.35.30.6  | 4.35.43.7  | 4.35.48.8  | 4.35.51.5  | 4.35.58.0  | 4.35.58.7  | 4.35.57.3  | 4.37.58.6  | 4.37.53.3        | 4.37.53.4        | 4.37.53.3        | 4.37.53.3  |
| INVERT                              | 4.36.4.97  | 4.36.5.16  | 4.36.6.13  | 4.36.7.22  | 4.36.8.44  | 4.36.9.04  | 4.36.10.6  | 4.36.11.3  | 4.36.12.1  | 4.37.13.1  | 4.37.14.1        | 4.37.15.1        | 4.37.16.1        | 4.37.17.1  |
| FINISHED SURFACE (EXISTING SURFACE) | 4.36.15.00 | 4.36.16.19 | 4.36.17.19 | 4.36.18.16 | 4.36.19.13 | 4.36.20.11 | 4.36.21.09 | 4.36.22.07 | 4.36.23.05 | 4.37.24.03 | 4.37.25.01       | 4.37.26.01       | 4.37.27.01       | 4.37.28.01 |
| CHAINAGE                            | 0.000      | 9.416      | 13.026     | 15.978     | 28.300     | 66.720     | 149.785    | 158.585    | 192.545    | 219.045    | 274.500          | 274.500          | 38.976           | 47.779     |

**CITY OF BALLARAT**  
BALLARAT PLANNING SCHEME  
Plan Referred to in Permit No. PLP/2015/888  
dated: 19/04/2017

Endorsed by Donna Perera for and on behalf of the City of Ballarat Council.  
Date: 19/6/2023

Sheet No: 9 of 12

**APPROVED CITY OF BALLARAT**  
By D. Hastings, 31 May, 2023

**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
NOT APPROVED FOR CONSTRUCTION

H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558\_6R9-11 (DRAINAGE LONG SECTION) DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | REMARKS               | DATE     | BY |
|---------|-----------------------|----------|----|
| B       | PIT 5 UPDATED TO DSEP | 25.05.23 | LP |
| A       | ISSUE TO COUNCIL      | 25.03.23 | LP |

Scale H 1:500 V 1:50 @ A1  
Scale H 1:1000 V 1:100 @ A3

|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**  
LAND SURVEYING  
CIVIL ENGINEERING  
PLANNING  
DEVELOPMENT CONSULTING



www.reedsconsulting.com.au  
Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
p 031 8660 3000

**CITY OF BALLARAT**  
ALLUVIUM ESTATE, WINTER VALLEY  
STAGE 6  
DRAINAGE LONG SECTIONS - 1





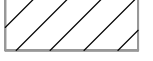
|             |         |         |   |
|-------------|---------|---------|---|
| DRAWING No. | 6R9     | VERSION | B |
| REFERENCE   | 22558E  |         |   |
| SHEET       | 9 OF 12 |         |   |



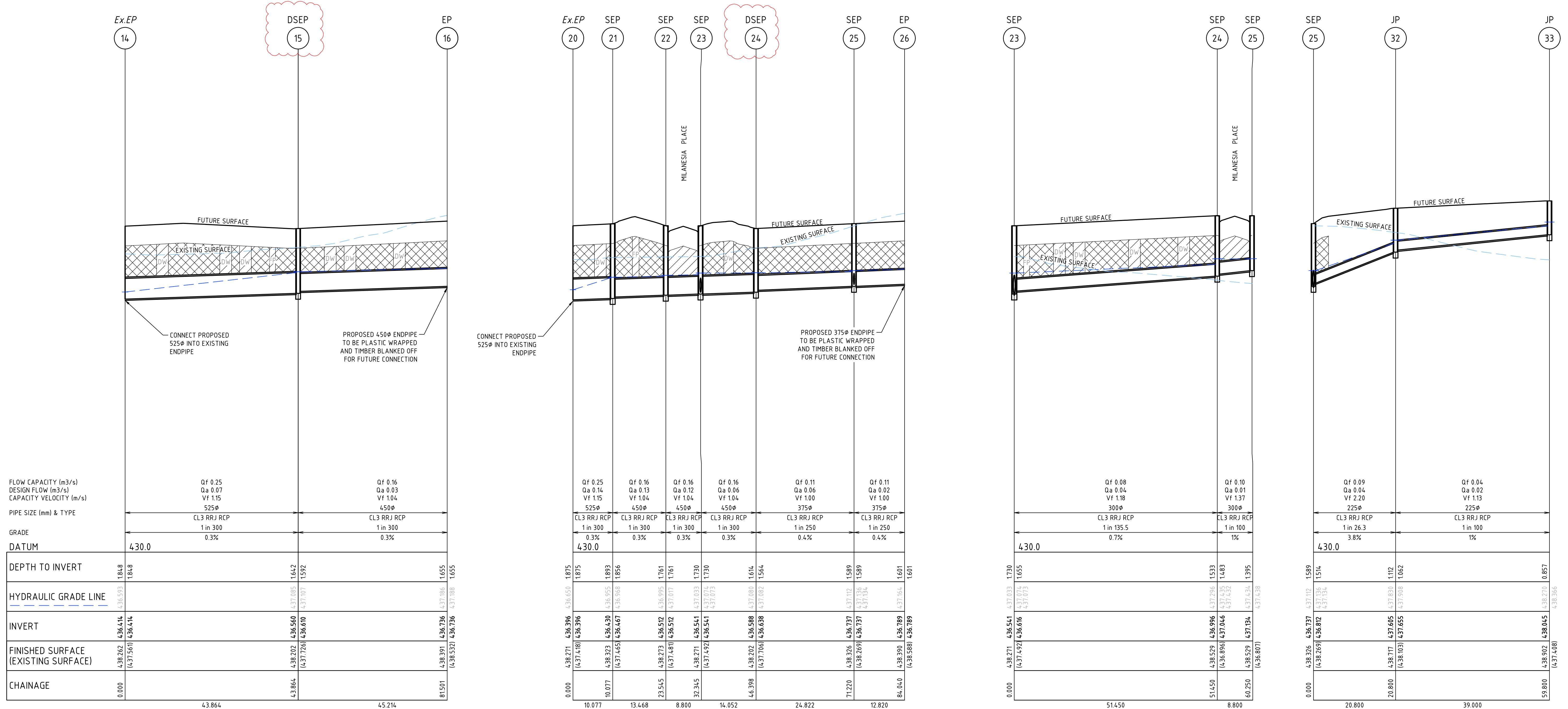
DRAINAGE BACKFILL.  
(REFER TO BALLARAT SD-D8-1)

-  STORMWATER DRAINS UNDER PAVEMENTS, FOOTPATHS AND DRIVEWAYS TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION A. ROAD PAVEMENT
-  STORMWATER DRAINS BEHIND KERB TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION B. ROAD SHOULDER
- DW DRIVEWAY
- FP FOOTPATH

LEGEND

-  EXISTING SURFACE
-  FINISHED SURFACE
-  FUTURE SURFACE
-  HYDRAULIC GRADE LINE QS
-  CLASS 3 FCR BACKFILL (REFER "DRAINAGE TRENCH BACKFILL" DETAIL BELOW).

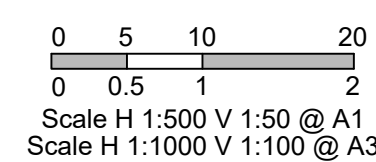
NOTE 1.  
225Ø DIA. PIPES ARE TO BE EITHER CLASS 3 RRJ RCP'S OR STORMPRO OR BLACKMAX PIPES



H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558\_6R10-11 (DRAINAGE LONG SECTION).DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

| VERSION | REMARKS               | DATE     | BY |
|---------|-----------------------|----------|----|
| B       | PIT 5 UPDATED TO DSEP | 25.05.23 | LP |
| A       | ISSUE TO COUNCIL      | 25.03.23 | LP |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**  
LAND SURVEYING  
CIVIL ENGINEERING  
PLANNING  
DEVELOPMENT CONSULTING

www.reedsconsulting.com.au  
engineering@reedsconsulting.com.au

Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
p 031 8660 3000

Copyright © Reeds Consulting Pty Ltd  
All Rights Reserved 2001

**CITY OF BALLARAT**  
BALLARAT PLANNING SCHEME  
Plan Referred to in Permit No. PLP/2015/888  
dated: 19/04/2017

Endorsed by Donna Perera for and on behalf of the City of Ballarat Council.  
Date: 19/06/2023

Sheet No: 10 of 12

**APPROVED CITY OF BALLARAT**

By D. Hastings, 31 May, 2023

**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
NOT APPROVED FOR CONSTRUCTION

**CITY OF BALLARAT**  
ALLUVIUM ESTATE, WINTER VALLEY  
STAGE 6  
DRAINAGE LONG SECTIONS - 2

DRAWING No. **6R10** VERSION **B**  
REFERENCE **22558E**  
SHEET 10 OF 12



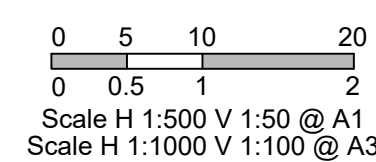
PIT SCHEDULE

| PIT NUMBER | PIT TYPE                    | SETOUT COORDINATES |             | INTERNAL DIMENSION |      | INLET                    |         | OUTLET |         | PIT     |       | REMARKS  |
|------------|-----------------------------|--------------------|-------------|--------------------|------|--------------------------|---------|--------|---------|---------|-------|--|
|            |                             | EASTING            | NORTHING    | WD                 | LEN  | DIA                      | INV     | DIA    | INV     | RL      | DEPTH |  |
| 1          | Ex. SEP                     | 746866.345         | 5837731.578 | 900                | 1100 | 600                      | 434.566 |        |         | 436.497 | 1.981 | BREAK INTO Ex. HAUNCHED SIDE ENTRY PIT AND CONNECT PROPOSED 600dia   |
| 2          | SIDE ENTRY PIT              | 746857.074         | 5837733.223 | 900                | 900  | 600                      | 434.663 | 600    | 434.613 | 436.587 | 1.974 | BALLARAT SD-P1-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO SEP AS PART OF FUTURE STAGE 9 WORKS. PROVIDE STEP IRONS.               |
| 3          | SIDE ENTRY PIT              | 746844.248         | 5837735.498 | 900                | 900  | 600                      | 434.772 | 600    | 434.722 | 436.697 | 1.975 | BALLARAT SD-P1-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO SEP AS PART OF FUTURE STAGE 9 WORKS. PROVIDE STEP IRONS.               |
| 4          | SIDE ENTRY PIT              | 746830.921         | 5837744.312 | 900                | 900  | 600                      | 434.894 | 600    | 434.844 | 436.813 | 1.969 | BALLARAT SD-P1-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO SEP AS PART OF FUTURE STAGE 9 WORKS. PROVIDE STEP IRONS.               |
| 5          | SIDE ENTRY PIT - 1.8m INLET | 746835.865         | 5837772.176 | 900                | 1800 | 300 (BLOCKOUT WEST WALL) | 434.956 |        |         |         |       | BALLARAT SD-P2-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO DSEP - 1.8m INLET AS PART OF FUTURE STAGE 7 WORKS. PROVIDE STEP IRONS. |
| 6          | SIDE ENTRY PIT              | 746845.231         | 5837824.967 | 900                | 900  | 300 (BLOCKOUT WEST WALL) | 435.283 |        |         |         |       | BALLARAT SD-P1-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO SEP AS PART OF FUTURE STAGE 7 WORKS. PROVIDE STEP IRONS.               |
| 7          | SIDE ENTRY PIT              | 746850.376         | 5837853.964 | 900                | 900  | 300                      | 435.054 | 600    | 435.004 | 436.977 | 1.972 | BALLARAT SD-P1-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO SEP AS PART OF FUTURE STAGE 7 WORKS. PROVIDE STEP IRONS.               |
| 8          | SIDE ENTRY PIT              | 746841.711         | 5837855.501 | 900                | 900  | 225 (BLOCKOUT EAST WALL) | 435.192 |        |         |         |       | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 9          | JUNCTION PIT                | 746808.274         | 5837861.434 | 600                | 900  | 300                      | 435.346 | 525    | 435.233 | 437.245 | 2.012 | BALLARAT SD-P10-2<br>CONSTRUCT JUNCTION PIT TO BE CONVERTED TO SEP AS PART OF FUTURE STAGE 7 WORKS. PROVIDE STEP IRONS.              |
| 10         | JUNCTION PIT                | 746782.181         | 5837866.063 | 600                | 900  | 300                      | 435.346 | 300    | 436.046 | 437.759 | 1.713 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 11         | SIDE ENTRY PIT              | 746846.507         | 5837882.529 | 900                | 900  | 300                      | 436.096 | 300    | 436.171 | 437.759 | 1.588 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 12         | SIDE ENTRY PIT              | 746839.906         | 5837891.978 | 900                | 900  | 300                      | 436.221 | 300    | 436.221 |         |       | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 13         | SIDE ENTRY PIT              | 746841.441         | 5837900.645 | 900                | 900  | 300                      | 436.221 | 300    | 437.138 | 438.633 | 1.495 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 14         | END PIPE                    | 746698.617         | 5837948.612 | -                  | -    | 525                      | 436.414 | -      | -       | 438.262 | 1.848 | CONNECT PROPOSED 525dia INTO EXISTING ENDDPIPE   |
| 15         | SIDE ENTRY PIT - 1.8m INLET | 746690.977         | 5837905.551 | 900                | 1800 | 450                      | 436.61  | 525    | 436.56  | 438.202 | 1.642 | BALLARAT SD-P2-2<br>PROVIDE STEP IRONS   |
| 16         | ENDPIPE                     | 746684.366         | 5837868.367 | -                  | -    | -                        | -       | 450    | 436.736 | 438.391 | 1.655 | PROPOSED 450dia ENDDPIPE TO BE PLASTIC WRAPPED AND TIMBER BLANKED OFF FOR FUTURE CONNECTION  |
| 20         | END PIPE                    | 746710.963         | 5837946.421 | -                  | -    | 525                      | 436.396 | -      | -       | 438.271 | 1.875 | CONNECT PROPOSED 525dia INTO EXISTING ENDDPIPE   |
| 21         | SIDE ENTRY PIT              | 746709.214         | 5837936.497 | 900                | 900  | 450                      | 436.467 | 525    | 436.43  | 438.323 | 1.893 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 22         | SIDE ENTRY PIT              | 746712.694         | 5837923.486 | 900                | 900  | 450                      | 436.512 | 450    | 436.512 | 438.273 | 1.761 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 23         | SIDE ENTRY PIT              | 746711.157         | 5837914.821 | 900                | 900  | 450                      | 436.541 | 450    | 436.541 | 438.271 | 1.73  | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 24         | SIDE ENTRY PIT - 1.8m INLET | 746703.187         | 5837903.385 | 900                | 1800 | 300                      | 436.616 |        |         |         |       | BALLARAT SD-P2-2<br>PROVIDE STEP IRONS   |
| 25         | SIDE ENTRY PIT              | 746698.828         | 5837878.821 | 900                | 900  | 375                      | 436.638 | 450    | 436.588 | 438.202 | 1.614 | BALLARAT SD-P2-2<br>PROVIDE STEP IRONS   |
| 26         | ENDPIPE                     | 746696.588         | 5837866.198 | -                  | -    | -                        | -       | 375    | 436.737 | 438.326 | 1.589 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 30         | SIDE ENTRY PIT              | 746761.816         | 5837905.833 | 900                | 900  | 300                      | 437.046 | 300    | 436.996 | 438.529 | 1.533 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 31         | SIDE ENTRY PIT              | 746763.353         | 5837914.498 | 900                | 900  | 300                      | 437.134 | 300    | 437.134 | 438.529 | 1.395 | BALLARAT SD-P1-2<br>PROVIDE STEP IRONS   |
| 32         | JUNCTION PIT                | 746719.308         | 5837875.188 | 600                | 900  | 225                      | 437.655 | 225    | 437.605 | 438.717 | 1.112 | BALLARAT SD-P10-2  |
| 33         | JUNCTION PIT                | 746757.708         | 5837868.375 | 600                | 900  | 225                      | 437.655 | 225    | 438.045 | 438.902 | 0.857 | BALLARAT SD-P10-2  |

H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558E\_6R11-11\DRAINAGE LONG SECTION\DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

|         |                       |          |    |
|---------|-----------------------|----------|----|
| VERSION | REMARKS               |          |    |
| B       | PIT 5 UPDATED TO DSEP | 25.05.23 | LP |
| A       | ISSUE TO COUNCIL      | 25.03.23 | LP |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**CITY OF BALLARAT**  
**BALLARAT PLANNING SCHEME**  
 Plan Referred to in Permit No. PLP/2015/888  
 dated: 19/04/2017

Endorsed by **Donna Perera** for and on behalf of the City of Ballarat Council.  
 Date: 19/6/2023

Sheet No: 11 of 12

**APPROVED CITY OF BALLARAT**

By D. Hastings, 31 May, 2023

**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

**REEDS CONSULTING**

LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING  
 DEVELOPMENT CONSULTING

www.reedsconsulting.com.au  
 engineering@reedsconsulting.com.au

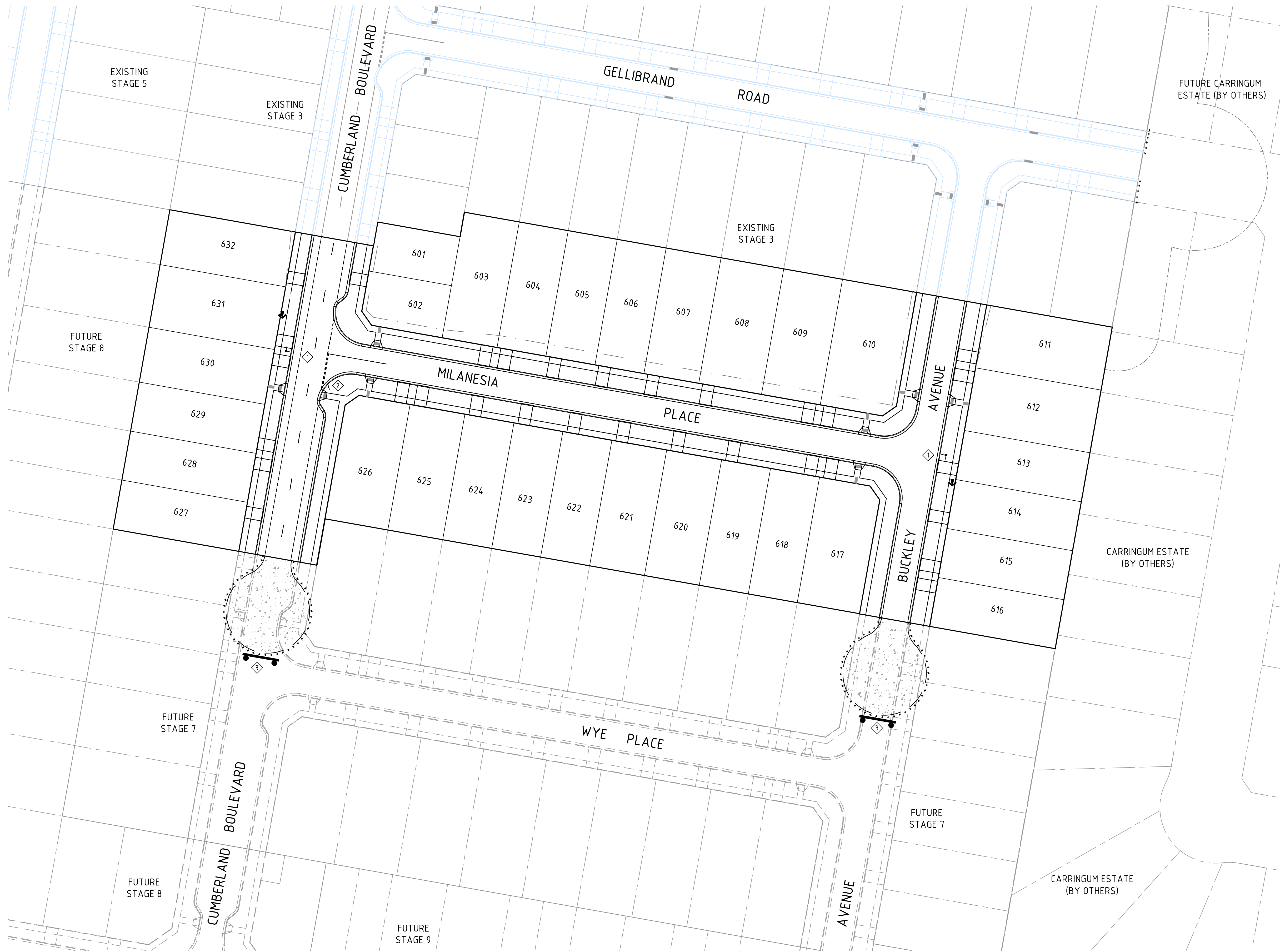
Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
 p 031 8660 3000

Copyright © Reeds Consulting Pty Ltd  
 All Rights Reserved 2001

**CITY OF BALLARAT**  
**ALLUVIUM ESTATE, WINTER VALLEY**  
**STAGE 6**  
**DRAINAGE PIT SCHEDULE**

|             |         |
|-------------|---------|
| DRAWING No. | VERSION |
| 6R11        | B       |
| REFERENCE   |         |
| 22558E      |         |
| SHEET       |         |
| 11          | OF 12   |





**NOTES**

- SIGNS, LINEMARKING AND RRPMS SHALL BE INSTALLED IN ACCORDANCE WITH AS1742 "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" UNLESS INDICATED OTHERWISE.
- TACTILE GROUND SURFACE INDICATORS (TGS) TO BE INSTALLED AT LOCATIONS SHOWN ON THE APPROVED PLANS, IN ACCORDANCE WITH AS1428.4

**LEGEND**

- 1 STREET NAME SIGNS, STREET NAME BLADES IN ACCORDANCE WITH CITY OF BALLARAT STANDARD DRAWING SD-501
- 2 GIVE WAY  
R1-V2A
- 3 D4-5  
TEMPORARY TURNING CIRCLE & NO ROAD SIGN



**CITY OF BALLARAT**  
 BALLARAT PLANNING SCHEME  
 Plan Referred to in Permit No. PLP/2015/888  
 dated: 19/04/2017

Endorsed by Donna Perera for and on behalf of the City of Ballarat Council.  
 Date: 19/6/2023

Sheet No: 12 of 12

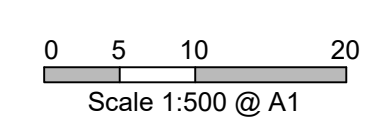
**APPROVED CITY OF BALLARAT**  
 By D. Hastings, 31 May, 2023

**WARNING**  
 BEWARE OF UNDERGROUND SERVICES  
 The locations of underground services are approximate only and their exact position should be proven on site prior to commencing works. No guarantee is given that all existing services are shown.

**PRELIMINARY PLAN ONLY**  
 NOT APPROVED FOR CONSTRUCTION

THIS DRAWING IS NOT TO BE COPIED OR SCALED

|         |                  |          |    |
|---------|------------------|----------|----|
| VERSION | REMARKS          | DATE     | BY |
| A       | ISSUE TO COUNCIL | 25.03.23 | LP |



|          |             |               |         |
|----------|-------------|---------------|---------|
| DRAWN BY | N. ROBINSON | DESIGNED BY   | L. PHAN |
| MELWAY   |             | CHECKED BY    | L. PHAN |
| DATUM    | AHD         | AUTHORISED BY | T. HOI  |

**REEDS CONSULTING**  
 LAND SURVEYING  
 CIVIL ENGINEERING  
 PLANNING  
 DEVELOPMENT CONSULTING

www.reedsconsulting.com.au  
 engineering@reedsconsulting.com.au  
 Lvl 6, 440 Elizabeth Street Melbourne Victoria 3000  
 p 031 8660 3000  
 Copyright © Reeds Consulting Pty Ltd All Rights Reserved 2001

**CITY OF BALLARAT**  
 ALLUVIUM ESTATE, WINTER VALLEY  
 STAGE 6  
 SIGNS & LINEMARKING PLAN

|             |        |         |    |
|-------------|--------|---------|----|
| DRAWING No. | 6R12   | VERSION | A  |
| REFERENCE   | 22558E |         |    |
| SHEET       | 12     | OF      | 12 |

H:\22558\STAGE-6\CAD\DWG\SET\ROAD AND DRAINAGE\22558E\_6R12\_SIGNAGE & LINEMARKING.DWG