### **GENERAL NOTES:**

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY 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 THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS THE CONTRACTOR SHAL
- COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998
- NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER 3.2. ENSURE THAT THE MINE MANAGE 3.3.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY E ARE NOT GUARANTEED AS CORREC
- REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVE NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE COUNCIL'S ENVIRONMENT DEPARTMEN
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTE DIMENSIONS ONLY SHALL BE USED.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
- NO TOPSOIL TO BE REMOVED FROM SITE 11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT
- FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LO CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDEN FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTI
- COMPACTION ACHIEVING A MINIMUM DENSITY RATIO OF 98% (STANDARD) IN ACCORDANCE WITH AS1289 CLAUSE 5.1.1.
- 14. CUT AND FILL BATTER SLOPES ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE
- 15. ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER RING JOINTED UNLESS STATED OTHERWISE 16 ALL DRAINAGE TRENCHES UNDER PARKING BAYS DRIVEWAYS FOOTPATHS AND BEHIND KERB & CHANNEL SHALL BE BACKEILLED WITH CRUSHED ROCK AS SPECIFIED
- 17. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOM. SIZE
- CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER. PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATI BOUNDARY UNLESS SHOWN OTHERWISE.
- 19. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
- 20. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL
- 21. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.
- 22. ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R. 23. NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
- 24. VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER CITY OF GREATER GEELONG "DESIGN NOTES No.4" DATED AUGUST 2012 & IDM STANDARD DRAWINGS SD205 to SD265.
- 25. ALL PEDESTRIAN CROSSINGS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200. 26. ALL STREET SIGNS TO BE IN ACCORDANCE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
- 27. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- 28. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT. 29. ALL AREAS OF SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSED BY
- HYDRO MULCHING, WATERED AND MAINTAINED, UNTIL THE END OF MAINTENANCE PERIOD. 30. ALL SUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS
- APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR. 31. CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE

| REVISION | DATE     | ISSUE DESCRIPTION                              | DRAWN          | CHECKED   | APPROVED | CLIENT |                                 |  |
|----------|----------|--|----------------|-----------|----------|--------|---------------------------------|--|
|          |          |  |                |           |          |        |                                 |  |
|          |          |  |                |           |          |        |                                 |  |
|          |          |  |                |           |          |        |                                 |  |
|          |          |  |                |           |          |        |                                 |  |
| AC       | 21/06/21 | AS CONSTRUCTED                                 | <b>B.LEECH</b> | M.TROUNCE | T.PALIOS |        | properties                      |  |
| 1        | 25/11/20 | LOT 6508 CROSSOVER RELOCATION & ADDED BLOCKOUT | C.ROHDE        | M.TROUNCE | T.PALIOS |        | proportioo                      |  |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                             | C.ROHDE        | M.TROUNCE | T.PALIOS |        | Communities Designed for Living |  |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20)         | C.ROHDE        | M.TROUNCE | T.PALIOS |        |                                 |  |
| Α        | 24/09/20 | ISSUED FOR APPROVAL                            | C ROHDE        | M TROUNCE | T PALIOS |        |                                 |  |

# ARMSTRONG

# **STAGE 47A/65A**

# **CITY OF GREATER GEELONG**



|             | Sheet List Table                      |          |
|-------------|---------------------------------------|----------|
| Drawing No. | Drawing Title                         | Revision |
| R100        | COVER SHEET                           | AC       |
| R200        | LAYOUT PLAN                           | AC       |
| R201        | TYPICAL CROSS SECTIONS                | AC       |
| R300        | INTERSECTION DETAILS - 1              | AC       |
| R301        | INTERSECTION DETAILS - 2              | AC       |
| R400        | <b>ROAD LONGITUDINAL SECTIONS - 1</b> | AC       |
| R401        | ROAD LONGITUDINAL SECTIONS - 2        | AC       |
| R500        | ROAD CROSS SECTIONS - 1               | AC       |
| R501        | ROAD CROSS SECTIONS - 2               | AC       |
| R502        | ROAD CROSS SECTIONS - 3               | AC       |
| R503        | ROAD CROSS SECTIONS - 4               | AC       |
| R504        | ROAD CROSS SECTIONS - 5               | AC       |
| R505        | ROAD CROSS SECTIONS - 6               | AC       |
| R600        | DRAINAGE LONG SECTIONS - 1            | AC       |
| R601        | DRAINAGE LONG SECTIONS - 2            | AC       |
| R602        | DRAINAGE LONG SECTIONS - 3            | AC       |
| R603        | DRAINAGE LONG SECTIONS - 4            | AC       |
| R604        | PIT SCHEDULE                          | AC       |
| R700        | TYPICAL DETAILS -1                    | AC       |
| R701        | TYPICAL DETAILS - 2                   | AC       |
| R800        | SIGNAGE & LINEMARKING                 | AC       |
| R900        | CONCRETE JOINTING PLAN                | AC       |
| R901        | DRAINAGE LAYOUT PLAN                  | AC       |

NOTE:

THE SITE OF WORKS IS SUBJECT TO THE PROVISIONS OF CULTURAL HERITAGE MANAGEMENT PLAN 12748. ALL WORKS AND PERSONNEL MUST OBSERVE THE REQUIREMENTS OF THE MANAGEMENT PLAN AT ALL TIMES.

PROJECT





DRAWING TITLE

**ARMSTRONG - STAGE 47A/65A COVER SHEET** 

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGNED (CONSULTANT)

SIGNED (CONTRACTOR)

180016.47A

### WARNING

**BEWARE OF UNDERGROUND & OVERHEAD SERVICES** THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS

#### DIAL 1100 BEFORE YOU DIG

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### **AS CONSTRUCTED**

STATUS

| SCALE AT A1      | DRAWN     |             | DESIGNE          | )         |  |  |
|------------------|-----------|-------------|------------------|-----------|--|--|
| 1:2000 @ A1      | С         | .ROHDE      | C.ROHDE          |           |  |  |
| PROJECT ENGINEER | PROJECT N | MANAGER     | DATE FIRST ISSUE |           |  |  |
| M.TROUNCE        | т         | .PALIOS     | A                | PRIL 2020 |  |  |
| PROJECT No.      |           | DRAWING No. |                  | REVISION  |  |  |

**R100** 

AC





## SERVICES OFFSET SCHEDULE

ROAD NAME SENSATION DRIVE CORNFLOWER WAY BOTANICAL DRIVE SPROUT PLACE MAGNIFICENT PARADE (SOUTHBOUND) MAGNIFICENT PARADE (NORTHBOUND)

1. \* DENOTES OFFSET FROM BACK OF KERB

**ARMSTRONG - STAGE 47A/65A** 

STATUS

|        |                               |                 |                       |                        |     |   | CITY OF   | GREATER   | R GEI  | ELONG T  | O STAMP HEP   | RE UPON AF   | PROVAL   |
|--------|-------------------------------|-----------------|-----------------------|------------------------|-----|---|---|---|--|--|---|--|--|
|        |                               |                 |                       |                        |     | NC           1.           2.           3.           4.           5.           6.           7.           8.           9. | DTES:<br>ALL VE<br>OF 1.0<br>ALL PF<br>CROSS<br>ALL PF<br>VEHIC<br>RESEF<br>THE U<br>ACCO<br>SEWE<br>ROTAT<br>WITHII<br>CHAIN<br>SERVI<br>DOWN<br>CONTI<br>COMM<br>ASSET<br>CONTI | EHICLE AN<br>Im FROM F<br>RAM CROS<br>SINGS.<br>RAM CROS<br>SLE EXCLU<br>RVE TO FO<br>SE OF DIF<br>RD WITH S<br>R MAINTE<br>TED TO EN<br>N FOOTPA<br>IAGES FOI<br>CING FUT<br>ISTREAM<br>RACTOR T<br>IENCEMENT<br>S TO BE<br>RACTOR T   | ND PF<br>PITS.<br>SSINC<br>JSION<br>ORM F<br>RECT<br>SECT<br>SECT<br>SECT<br>SECT<br>NAUC<br>NSUR<br>ATH<br>PIT<br>TO LC<br>NT OF<br>RECT<br>TO VE | RAM CRO<br>GS TO BE<br>I MEASUI<br>PART OF<br>IONAL AN<br>ION 2.2.3<br>CE HOLE<br>E COVEF<br>IOUT OF<br>LOTS, AF<br>DCATE AL<br>E WORKS<br>IFIED AT<br>ERIFY DE<br>I OF CON  | SSING LAYBA<br>A MINIMUM<br>DDA COMPL<br>RES BETWEE<br>LANDSCAPE<br>D HAZARD T<br>OF AS/NZS<br>CONVERTER<br>POSITION IS<br>PROPERTY I<br>RE MEASURE<br>L EXISTING A<br>ANY DAMAC<br>CONTRACTO<br>PTH OF EXIS<br>ISTRUCTION                      | ACKS, TO BE<br>2.0m FROM<br>IANT.<br>IN ROAD REI<br>WORKS.<br>ACTILE PAV<br>ACTILE P | E MINIMUM<br>VEHICLE<br>SERVE AND<br>ERS MUST<br>ONE, TO BE<br>Y LOCATED<br>S,<br>E<br>OR TO<br>ING<br>SE.<br>CES, PRIOR |
| AS     |                               |                 |                       |                        |     |   | GEND - L<br>->H<br>   | AYOUT PI<br>STORM<br>SUBALE<br>SEWEF<br>HOUSE<br>SERVIG<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>EXISTI<br>FINISH<br>FINISH<br>FINISH<br>FINISH<br>FINISH<br>FINISH<br>COVERL<br>ALLOT<br>DIREC<br>OVERL<br>ALLOT<br>DIREC<br>CONCF<br>"NO RC<br>EXISTI | LAN<br>WWAT<br>E DRA<br>E DRA<br>CE CC<br>NG E<br>NG E<br>NG E<br>NG C<br>NG C<br>NG C<br>NG C<br>NG C<br>NG C<br>NG C<br>NG C                     | TER DRAI<br>AIN<br>AIN<br>DNDUITS<br>LECTRIC<br>LECTRIC<br>LECTRIC<br>AS<br>PTIC FIB<br>ELSTRA<br>/ATER<br>ECYCLEI<br>TORMWA<br>EWER<br>UILDING<br>IDGE LIN<br>TREATM<br>AL FILL ><br>TRUCTUI<br>OF FALL<br>FLOW<br>T TO BE C<br>OF FALL<br>EDGE S <sup>T</sup><br>SIGN & B<br>DRKS<br>REE TO E<br>T SURVE | N, PIT & PRO<br>NCE STRUCT<br>ITY (UNDERG<br>ITY (OVERHE<br>RE<br>O WATER<br>ATER DRAIN<br>LEVEL<br>LINE LEVEL<br>E LEVEL<br>ENT<br>200mm DEEF<br>RAL FILL > 20<br>GRADED EVE<br>TO LEVELS II<br>TRIP WITH SU<br>ARRIER<br>BE REMOVED<br>Y MARK | PERTY INLE<br>FURES<br>(ROUND)<br>(AD)<br>AD)<br>Omm DEEP<br>NLY IN<br>NDICATED<br>JBSOIL DRAI   | T  |
| SUE    | EXC<br>BGRADE AI<br>PPING MAT | CAVATI<br>ND RE | E 200mm E<br>PLACE WI | EIVIEIN<br>BELOW<br>TH |     | W/2   |   | TEMPC<br>PROPC<br>STORM   | DRAR<br>DSED   | Y BENCH<br>DRIVEW  | i Mark<br>Ay<br>Setout Poin   | IT   |  |
| NED (C | ONSULTANT)<br>ONTRACTOR)      |                 |                       |                        | _   |   | NOT<br>ARE I  | TE: STR<br>NDICA<br>S TO BE<br>LAN  | REET<br>TIVE<br>E PR<br>NDS  | TREE<br>ONLY<br>OVIDE<br>CAPE  | E LOCATIC<br>7. ULTIMA<br>ED/CONFII<br>ARCHITE  | ONS SHO<br>TE LOCA<br>RMED BY<br>CTS   | WN<br>TION   |
|        |                               |                 |                       |                        |     | ap<br>No  | EWARE<br>The lo<br>proximat<br>guarant<br>all unde  | E OF UN<br>ocations of<br>te only &<br>ee is give<br>erground<br>DIAL 1   | DER<br>of un<br>their<br>en tha<br>servi   | WAR<br>GROUN<br>dergroun<br>exact p<br>at all exis<br>ices befo<br><b>0 BEF</b><br>www.110   | NING<br>D & OVER<br>and & overher<br>osition shou<br>sting service<br>ore commen<br>ORE YC  | HEAD SEF<br>ad services<br>Id be prove<br>es are show<br>icement of<br>DU DIG  | RVICES<br>s are<br>en on site.<br>vn. Locate<br>works  |
| HE     | DULE                          |                 |                       |                        |     |   |   |   |  |  |   |  |  |
|        | GAS                           | REC             |                       | PO                     |     | E   | OPT   | IC FIBR   | RE   | ELEC   | TRICITY   | PUI  |  |
| SIDE   | OFFSET                        | SIDE            | OFFSET                | SIDE                   |     | SET   | SIDE  | OFFSE   | ET   | SIDE   | OFFSET  | SIDE   | OFFSET   |
| N      | 2.10                          | N               | 2.50                  | N                      | 3.0 | 00  | N   | 3.60  |  | N  | 4.20  | N  | 1.00*  |
| E<br>S | 2.10                          | E<br>S          | 2.60                  | E<br>S                 | 3.2 | 20  | N N   | 2.80  |  | W<br>N   | 2.60  | N  | 1.00*  |
| N      | 2.10                          | N               | 2.50                  | N                      | 3.0 | 00  | S   | 1.80  |  | S  | 1.00  | -  | -  |

| GAS  |        | RECYCLED<br>WATER |        | POTABLE<br>WATER |        | OPT  | IC FIBRE | ELEC | TRICITY | PUBLIC<br>LIGHTING |        |
|------|--------|-------------------|--------|------------------|--------|------|----------|------|---------|--------------------|--------|
| SIDE | OFFSET | SIDE              | OFFSET | SIDE             | OFFSET | SIDE | OFFSET   | SIDE | OFFSET  | SIDE               | OFFSET |
| Ν    | 2.10   | Ν                 | 2.50   | Ν                | 3.00   | Ν    | 3.60     | Ν    | 4.20    | Ν                  | 1.00*  |
| Е    | 2.10   | E                 | 2.60   | Е                | 3.20   | W    | 2.80     | W    | 3.60    | W                  | 1.00*  |
| S    | 2.10   | S                 | 2.50   | S                | 3.00   | N    | 1.80     | Ν    | 2.60    | Ν                  | 1.00*  |
| Ν    | 2.10   | Ν                 | 2.50   | Ν                | 3.00   | S    | 1.80     | S    | 1.00    | -                  | -      |
| Е    | 1.80   | E                 | 2.20   | Е                | 2.70   | Е    | 3.30     | Е    | 3.90    | E                  | 1.00*  |
| W    | 1.80   | W                 | 2.20   | W                | 2.70   | W    | 3.30     | W    | 3.90    | W                  | 1.00*  |
|      |        |                   |        |                  |        |      |          |      |         |                    |        |

|                | SCALE AT A1      | DRAWN           |             | DESIGNED   |          |
|----------------|------------------|-----------------|-------------|------------|----------|
|                | 1:500 @ A1       | C.ROHDE         |             | C.ROHDE    |          |
|                | PROJECT ENGINEER | PROJECT MANAGER |             | DATE FIRS  | ST ISSUE |
| AS CONSTRUCTED | M.TROUNCE        | T.PALIOS        |             | APRIL 2020 |          |
|                | PROJECT No.      |                 | DRAWING No. |            | REVISION |
|                | 180016.4         | 7A              | R20         | 0          | AC       |







| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT                          |
|----------|----------|--|---------|-----------|----------|---------------------------------|
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          | VIIIQWØQ                        |
|          |          |  |         |           |          | properties                      |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |                                 |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |





PROJECT

ARMSTRONG - STAGE 47A/65A TYPICAL CROSS SECTIONS

DRAWING TITLE



## AS CONSTRUCTED

STATUS

| SIGNED (CONTRACTOR) |         |             |            |          |  |  |  |  |  |  |
|---------------------|---------|-------------|------------|----------|--|--|--|--|--|--|
| 1                   | •       |             |            |          |  |  |  |  |  |  |
| SCALE AT A1         | DRAWN   |             | DESIGNE    | )        |  |  |  |  |  |  |
| N.T.S               | С       | ROHDE       | C.ROHDE    |          |  |  |  |  |  |  |
| PROJECT ENGINEER    | PROJECT | MANAGER     | DATE FIR   | ST ISSUE |  |  |  |  |  |  |
| M.TROUNCE           | Т       | .PALIOS     | APRIL 2020 |          |  |  |  |  |  |  |
| PROJECT No.         | -       | DRAWING No. |            | REVISION |  |  |  |  |  |  |
| 180016.4            | 7A      | R20         | 1          | AC       |  |  |  |  |  |  |

SIGNED (CONSULTANT)

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL





| PT NO EASTING |               | ١G     | NORTH       | IING   | RL     |        |       |       |       |       |              |
|---------------|---------------|--------|-------------|--------|--------|--------|-------|-------|-------|-------|--------------|
|               | G1            | 264999 | 9.059       | 576654 | 1.963  | 43.528 |       |       |       |       |              |
|               | G2 265001.542 |        | 5766541.666 |        | 43.494 | 43.494 |       |       |       |       |              |
|               | G3            | 265011 | .102        | 576654 | 9.184  | 43.427 |       |       |       |       |              |
|               | G4            | 265009 | 9.666       | 576655 | 3.32   | 43.392 |       |       |       |       |              |
|               | G5            | 265009 | .379        | 576655 | 4.147  | 43.398 |       |       |       |       |              |
|               |               |        |             |        |        |        |       |       |       |       |              |
|               | CURVE         | NO     | I           | RAD.   | ARC    | А      | В     | Х     | Y     | Ι     | MID POINT RL |
|               | G2 - G        | 3      | 90          | 8.6    | 13.509 | 2.519  | 1.864 | 3.291 | 2.79  | 3.377 | 43.461       |
|               | G3 - G        | 4      | 51.927      | 5      | 4.531  | 0.505  | 0.377 | 1.123 | 1.066 | 1.133 | 43.407       |
|               | G4 - G        | 5      | 51.927      | 1      | 0.906  | 0.101  | 0.075 | 0.225 | 0.213 | 0.227 | 43.394       |
|               |               |        |             |        |        |        |       |       |       |       |              |



| PT NO  | EASTIN | ١G     | NORTH  | IING   | RL     |       |       |   |
|--------|--------|--------|--------|--------|--------|-------|-------|---|
| H1     | 265005 | 5.419  | 576652 | 1.037  | 43.064 |       |       |   |
| H2     | 265005 | 5.893  | 576652 | 1.773  | 43.077 |       |       |   |
| H3     | 265008 | 8.255  | 576652 | 5.385  | 43.184 |       |       |   |
| H4     | 265000 | ).746  | 576653 | 5.014  | 43.495 |       |       |   |
| H5     | 264998 | 3.264  | 576653 | 5.311  | 43.528 |       |       |   |
|        |        |        |        |        |        |       |       |   |
| CURVE  | E NO   | 1      | RAD.   | ARC    | А      | В     | Х     | ١ |
| H1 - H | 2      | 51.927 | 1      | 0.906  | 0.101  | 0.075 | 0.225 | ( |
| H2 - H | 3      | 51.14  | 5      | 4.463  | 0.49   | 0.366 | 1.106 | 1 |
| H3 - H | 4      | 90 46  | 86     | 13 577 | 2 543  | 1 882 | 3 307 | 2 |



| ALIGNMENT           | A   |
|---------------------|-----|
| / LEI OI 1111EI 111 | ••• |

| PT NO               | EASTIN | ١G     | NORTH  | IING   | RL     |       |       |       |       |              |
|---------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------------|
| A1                  | 264931 | .655   | 576636 | 6.532  | 42.312 |       |       |       |       |              |
| A2                  | 264925 | .862   | 576636 | 7.225  | 42.341 |       |       |       |       |              |
| A3                  | 264914 | .458   | 576637 | 1.013  | 42.402 |       |       |       |       |              |
| A4                  | 264901 | .031   | 576637 | 3.379  | 42.38  |       |       |       |       |              |
| A5                  | 264889 | .251   | 576637 | 8.15   | 42.433 |       |       |       |       |              |
| A6                  | 264888 | .363   | 576639 | 0.829  | 42.521 |       |       |       |       |              |
| A7                  | 264889 | .622   | 576639 | 3.198  | 42.575 |       |       |       |       |              |
| A8                  | 264891 | .817   | 576640 | 0.204  | 42.745 |       |       |       |       |              |
| A9                  | 264890 | .825   | 576640 | 3.835  | 42.829 |       |       |       |       |              |
| A10                 | 264890 | .626   | 576640 | 4.561  | 42.835 |       |       |       |       |              |
|                     |        |        |        |        |        |       |       |       |       |              |
| CURVE               | NO     | I      | RAD.   | ARC    | А      | В     | Х     | Y     | I     | MID POINT RL |
| A2 - A3             | 3      | 23.106 | 30     | 12.099 | 0.608  | 0.455 | 3.02  | 2.989 | 3.025 | 42.372       |
| A3 - A4             | 4      | 39.858 | 20     | 13.913 | 1.198  | 0.896 | 3.461 | 3.356 | 3.478 | 42.429       |
| A4 - A              | 5      | 63.953 | 12     | 13.394 | 1.821  | 1.357 | 3.305 | 3.05  | 3.349 | 42.399       |
| A5 - A6             | 6      | 63.953 | 12     | 13.394 | 1.821  | 1.357 | 3.305 | 3.05  | 3.349 | 42.466       |
| A7 - A8             | 3      | 21.154 | 20     | 7.384  | 0.34   | 0.255 | 1.843 | 1.828 | 1.846 | 42.658       |
| A8 - A9             | 9      | 44.22  | 5      | 3.859  | 0.368  | 0.275 | 0.959 | 0.923 | 0.965 | 42.79        |
| A9 - A <sup>-</sup> | 10     | 44.22  | 1      | 0.772  | 0.074  | 0.055 | 0.192 | 0.185 | 0.193 | 42.833       |

| PT NO  | EASTI  | NG     | NORTH  | HING   | RL     |       |       |       |       |              |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------------|
| B1     | 264915 | 5.002  | 576640 | 01.646 | 42.459 |       |       |       |       |              |
| B2     | 264914 | 1.092  | 576639 | 94.032 | 42.421 |       |       |       |       |              |
| B3     | 264913 | 3.672  | 576639 | 93.331 | 42.422 |       |       |       |       |              |
| B4     | 264911 | 1.575  | 576638 | 39.829 | 42.465 |       |       |       |       |              |
| B5     | 264911 | 1.537  | 576638 | 39.512 | 42.464 |       |       |       |       |              |
| B6     | 264915 | 5.221  | 576637 | 79.355 | 42.408 |       |       |       |       |              |
| B7     | 264932 | 2.237  | 576637 | 71.398 | 42.312 |       |       |       |       |              |
|        |        |        |        |        |        |       |       |       |       |              |
| CURVE  | E NO   | 1      | RAD.   | ARC    | А      | В     | Х     | Y     | 1     | MID POINT RL |
| B2 - B | 3      | 48.19  | 1      | 0.841  | 0.087  | 0.065 | 0.209 | 0.2   | 0.21  | 42.42        |
| B3 - B | 4      | 48.19  | 5      | 4.205  | 0.436  | 0.326 | 1.044 | 0.998 | 1.051 | 42.456       |
| B5 - B | 6      | 53.511 | 12     | 11.207 | 1.285  | 0.959 | 2.776 | 2.626 | 2.802 | 42.436       |
| B6 - B | 7      | 36.489 | 30     | 19.106 | 1.508  | 1.129 | 4.756 | 4.636 | 4.776 | 42.36        |

| PT NO  | EASTI  | ١G     | NORTH  | HING   | RL     |       |       |       |       |              |
|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------------|
| C1     | 264895 | 5.491  | 576640 | 3.979  | 42.672 |       |       |       |       |              |
| C2     | 264894 | 1.976  | 576639 | 9.667  | 42.65  |       |       |       |       |              |
| C3     | 264893 | 8.658  | 576639 | 3.216  | 42.617 |       |       |       |       |              |
| C4     | 264892 | 2.462  | 576638 | 35.306 | 42.577 |       |       |       |       |              |
| C5     | 264896 | 5.033  | 576637 | '9.397 | 42.541 |       |       |       |       |              |
| C6     | 264902 | 2.907  | 576638 | 80.034 | 42.542 |       |       |       |       |              |
| C7     | 264908 | 3.695  | 576639 | 0.173  | 42.562 |       |       |       |       |              |
| C8     | 264910 | ).137  | 576640 | 2.228  | 42.623 |       |       |       |       |              |
|        |        |        |        |        |        |       |       |       |       |              |
| CURVE  | E NO   | I      | RAD.   | ARC    | А      | В     | Х     | Y     |       | MID POINT RL |
| C2 - C | 3      | 9.442  | 40     | 6.592  | 0.136  | 0.102 | 1.647 | 1.645 | 1.648 | 42.634       |
| C3 - C | 4      | 15.324 | 30     | 8.024  | 0.268  | 0.201 | 2.004 | 1.995 | 2.006 | 42.597       |
| C4 - C | 5      | 64.156 | 6.5    | 7.278  | 0.992  | 0.739 | 1.796 | 1.656 | 1.82  | 42.559       |
| C5 - C | 6      | 64.156 | 6.5    | 7.278  | 0.992  | 0.739 | 1.796 | 1.656 | 1.82  | 42.539       |
| C6 - C | 7      | 45 805 | 15     | 11 992 | 1 182  | 0 884 | 2 978 | 2 859 | 2 998 | 42 548       |

| ALIGNI  | MENT I  |       |        |        |        |       |       |       |        |              |
|---------|---------|-------|--------|--------|--------|-------|-------|-------|--------|--------------|
| PT NO   | EASTIN  | ١G    | NORT   | HING   | RL     |       |       |       |        |              |
| 11      | 264909  | 9.8   | 576637 | 79.145 | 42.504 |       |       |       |        |              |
| 12      | 264910  | .786  | 576637 | 79.153 | 42.496 |       |       |       |        |              |
| 13      | 264912  | 2.82  | 576637 | 76.808 | 42.476 |       |       |       |        |              |
| 14      | 264913  | 3.872 | 576637 | 75.858 | 42.466 |       |       |       |        |              |
| 15      | 264913  | 8.931 | 576637 | 75.473 | 42.464 |       |       |       |        |              |
| 16      | 264913  | 8.56  | 576637 | 75.354 | 42.465 |       |       |       |        |              |
| 17      | 264909  | 9.15  | 576637 | 76.711 | 42.488 |       |       |       |        |              |
| 18      | 264908  | 8.773 | 576637 | 77.636 | 42.494 |       |       |       |        |              |
| CURVE   | E NO    | I     | RAD.   | ARC    | А      | В     | Х     | Y     | I      | MID POINT RL |
| 11 - 12 | 110.556 | 6     | 0.6    | 1.158  | 0.258  | 0.19  | 0.278 | 0.215 | 0.289  | 42.5         |
| 12 - 13 | 11.494  | 15.5  | 3.109  | 0.078  | 0.058  | 0.777 | 0.775 | 0.777 | 42.486 |              |
| 13 - 14 | 2.425   | 33.5  | 1.418  | 0.008  | 0.006  | 0.355 | 0.354 | 0.355 | 42.471 |              |
| 14 - 15 | 80.922  | 0.3   | 0.424  | 0.072  | 0.053  | 0.104 | 0.091 | 0.106 | 42.465 |              |
| 15 - 16 | 80.922  | 0.3   | 0.424  | 0.072  | 0.053  | 0.104 | 0.091 | 0.106 | 42.464 |              |
| 16 - 17 | 11.269  | 23.5  | 4.622  | 0.114  | 0.085  | 1.155 | 1.152 | 1.155 | 42.477 |              |
| 17 10   | 440 70  | 7     | 0.0    | 1 101  | 0.000  | 0 407 | 0 000 | 0.040 | 0.005  | 10 101       |

#### PT NO EASTING NORTHING RL J1 264905.539 5766383.612 42.657 J2 264901.843 5766381.208 42.688 J3 264896.107 5766384.517 42.738 J4 264895.072 5766390.458 42.78 J5 264894.957 5766395.908 42.717 J1 - J2 43.106 6 4.514 0.42 0.314 1.122 1.082 1.129 42.672 J2 - J3 82.936 5 7.238 1.253 0.93 1.77 1.541 1.809 42.713

| VERTICAL GEOMETRY<br>DATUM RL42<br>DESIGN LEVEL<br>EXISTING SURFACE<br>CHAINAGE  |                   | C1      | C2     | C3               | C4               | C5               | C6               |        |        |
|--|-------------------|---------|--------|------------------|------------------|------------------|------------------|--------|--------|
| DATION Consult       Outron Consult       Outron Consult       Outron Consult         DATUM RL42       00000       479       479       479         DESIGN LEVEL       479       479       479       479       479         SUBSE       479       479       479       479       479       479         SUBSE       479       479       479       479       479       479         SUBSE       479       479       479       479       479       479       479         SUBSE       479 <td>VERTICAL GEOMETRY</td> <td>-0.5%</td> <td></td> <td>-0.5%</td> <td></td> <td></td> <td>0.19</td> <td>6</td> <td></td>  | VERTICAL GEOMETRY | -0.5%   |        | -0.5%            |                  |                  | 0.19             | 6      |        |
| CHAIN     42.620     42.650       10.000     42.632     42.650       10.335     42.632     42.650       10.335     42.632     42.650       10.335     42.632     42.650       10.335     42.632     42.650       10.335     42.632     42.651       10.335     42.632     42.650       10.335     42.632     42.650       10.335     42.633     42.630       10.335     42.633     42.537       21.207     42.532     42.541       21.207     42.532     42.541       21.207     42.532     42.541       21.207     42.532     42.557       21.207     42.532     42.557       33.515     42.536     42.557       42.559     42.557       42.559     42.557  | DATUM RL42        |         |        |                  |                  |                  |                  |        |        |
| A:343       42.620         0.0000       42.631         10.035       42.631         10.035       42.632         20.000       42.632         33.515       42.564         33.515       42.436         40.000       42.563         42.558       42.537         42.558       42.533         42.558       42.533         42.558       42.436         42.558       42.533         42.558       42.533   | DESIGN LEVEL      | 42.672- | 42.650 | 42.622-          | 42.577-          | 42.541-          | 42.539-42.542-   | 42.549 | 42.552 |
| A3.558 40.000 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33.5155 33. | EXISTING SURFACE  | 42.620  | 42.621 | 42.631<br>42.629 | 42.632<br>42.632 | 42.564<br>42.537 | 42.476<br>42.446 | 42.398 | 42.393 |
|  | CHAINAGE          | 0.00    | 4.343  | 10.000           | 18.958<br>20.000 | 26.237<br>27.207 | 30.000<br>33.515 | 40.000 | 43.558 |



|          |          |  |                |           |          |                                 | _ |
|----------|----------|--|----------------|-----------|----------|---------------------------------|---|
| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN          | CHECKED   | APPROVED | CLIENT                          |   |
|          |          |  |                |           |          |                                 |   |
|          |          |  |                |           |          |                                 |   |
|          |          |  |                |           |          |                                 |   |
|          |          |  |                |           |          |                                 |   |
|          |          |  |                |           |          | properties                      |   |
| AC       | 21/06/21 | AS CONSTRUCTED                         | <b>B.LEECH</b> | M/TROUNCE | T.PALIOS |                                 |   |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE        | M.TROUNCE | T.PALIOS | Communities Designed for Living |   |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE        | M.TROUNCE | T.PALIOS |                                 |   |
| A        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE        | M.TROUNCE | T.PALIOS |                                 |   |

CO creo CONSULTANTS Level 7, 176 Wellington Parade East Melbourne, VIC, Australia 3002



**ARMSTRONG - STAGE 47A/65A INTERSECTION DETAILS - 2** 

## **AS CONSTRUCTED**



|          |          |  |         |           |          |        | LEE      | LEFI       | LEFI      |       | LEFI |
|----------|----------|--|---------|-----------|----------|--------|----------|------------|-----------|-------|------|
| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT |          |            |           |       |      |
|          |          |  |         |           |          |        |          |            |           |       |      |
|          |          |  |         |           |          |        | VI       |            | 200       |       |      |
|          |          |  |         |           |          |        | V 111    |            |           |       |      |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |        |          | prop       | erties    |       | Leve |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | C      | ommuniti | ies Desigr | ned for L | iving | East |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |        |          |            |           |       |      |
| A        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |        |          |            |           |       |      |

| REVISION | DAIE |                                 |        |        |                    | DRAWN            |         |         | UVED   |            | 10                 |                  |                    |        |                             |       |                    |         |
|----------|------|---------------------------------|--------|--------|--------------------|------------------|---------|---------|--------|------------|--------------------|------------------|--------------------|--------|-----------------------------|-------|--------------------|---------|
|          |      |                                 |        |        |                    |                  |         |         |        | CLIENT     |                    |                  |                    |        |                             |       |                    |         |
|          |      |                                 |        |        | <u>BOTANICAL I</u> | DRIVE LC         | )NGITUE | DINAL S | ECT    | <u>ION</u> | LEFT TANGENT POINT |                  | LEFT TANGENT POINT |        | LEFT TANGENT POINT          |       | LEFT TANGENT POINT |         |
|          |      | CHAINAGE                        | 16.000 | 20.000 | 29.000<br>30.000   | 40.000<br>41.000 | 45.000  | 53.500  | 60.000 | 66.000     | 74.300             | 78.500<br>80.000 | 88.578<br>90.700   | 95.000 | 99.450<br>99.613<br>100.000 |       | 115.850<br>117.369 | 120.000 |
|          |      | CENTRELINE DEPTH                | 0.278  | 0.276  | 0.275<br>0.275     | 0.272<br>0.272   | 0.269   | 0.262   | 0.258  | 0.253      | 0.235              | 0.223<br>0.215   | 0.163<br>0.149     | 0.122  | 0.096<br>0.096<br>0.153     |       | 0.180<br>0.185     | 0.185   |
|          |      | EXISTING SURFACE                | 43.917 | 43.969 | 44.088<br>44.101   | 44.232<br>44.244 | 44.295  | 44.402  | 44.484 | 44.559     | 44.652             | 44.695<br>44.707 | 44.770<br>44.784   | 44.814 | 44.856<br>44.858<br>44.921  |       | 45.185<br>45.213   | 45.253  |
|          |      | LEFT BACK OF KERB               | 43.638 | 43.691 | 43.811<br>43.824   | 43.958<br>43.971 | 44.024  | 44.138  | 44.224 | 44.304     | 44.415             |                  | 44.634             | 44.691 | 44.758                      |       | 45.004<br>45.026   | 45.066  |
|          |      | RIGHT BACK OF KERB              | 43.638 | 43.691 | 43.811<br>43.824   | 43.958<br>43.971 | 44.024  | 44.138  | 44.224 | 44.304     | 44.415             | 44.471<br>44.491 | 44.605<br>44.634   | 44.691 | 44.758<br>44.760<br>44.766  |       | 45.004<br>45.026   | 45.066  |
|          |      | DATUM RL41<br>DESIGN CENTRELINE | 43.639 | 43.693 | 43.813<br>43.826   | 43.959<br>43.973 | 44.026  | 44.139  | 44.226 | 44.306     | 44.417             | 44.473<br>44.493 | 44.607<br>44.635   | 44.693 | 44.759<br>44.762<br>44.768  |       | 45.005<br>45.028   | 45.068  |
|          |      | VERTICAL GEOMETRY               |        |        |                    |                  |         | 1.33 %  |        |            |                    |                  |                    | >      |                             | 1.5 % |                    |         |
|          |      |                                 |        |        |                    |                  |         |         |        |            |                    |                  |                    |        |                             |       |                    |         |
|          |      | REFER R300 FOR DETAIL           |        |        |                    |                  |         |         |        |            |                    |                  | +                  |        |                             |       |                    |         |



VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM RL40 DESIGN CENTRELINE RIGHT BACK OF KERB LEFT BACK OF KERB EXISTING SURFACE CENTRELINE DEPTH

CHAINAGE

FUTURE STAGE 47B PROPOSED WORKS

PROPOSED WORKS EXISTING STAGE 46A





PROJECT

DRAWING TITLE

**ARMSTRONG - STAGE 47A/65A ROAD LONGITUDINAL SECTIONS - 1** 

| AS | CONSTRUCTED |  |
|----|-------------|--|

|         | SIGNED (CONT     | RACIOR    |             |                  |          |  |
|---------|------------------|-----------|-------------|------------------|----------|--|
|         |                  |           |             |                  |          |  |
| SCALE A | T A1             | DRAWN     |             | DESIGNED         |          |  |
| Å       | AS SHOWN         | с         | .ROHDE      | C                | C.ROHDE  |  |
| PROJEC  | T ENGINEER       | PROJECT N | MANAGER     | DATE FIRST ISSUE |          |  |
| N       | 1.TROUNCE        | Т         | .PALIOS     | APRIL 2020       |          |  |
| PROJEC  | T No.            |           | DRAWING No. |                  | REVISION |  |
| 18      | 30016 <b>.</b> 4 | 7A        | R40         | 0                | AC       |  |

SIGNED (CONTRACTOR)

SIGNED (CONSULTANT)

STATUS

coordinate = 265014.5483 5766536.7371

145.150 264870.425 5766553.973 276°49'11" IP

CHAINAGE EASTING NORTHING BEARING

LEGEND — — — EXISTING SURFACE DESIGN LINE — — — FUTURE DESIGN LINE \_\_\_\_\_ LEFT BACK OF KERB 1:500 10 5 20 A1 10 1:1000 A3 HORIZONTAL 1:50 1 0.5 0 2 A1 1:100 VERTICAL

WARNING

**BEWARE OF UNDERGROUND & OVERHEAD SERVICES** 

The locations of underground & overhead services are

approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate

all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.**1100**.com.au

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT                          |
|----------|----------|--|---------|-----------|----------|---------------------------------|
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          | villevous                       |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS | properties                      |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |

| REFER R301 FOR DETAIL             |         |         |         |                    |         |                    |         |                    |         |         |                    |         |                               |
|-----------------------------------|---------|---------|---------|--------------------|---------|--------------------|---------|--------------------|---------|---------|--------------------|---------|-------------------------------|
|                                   |         |         |         |                    |         |                    |         |                    |         |         |                    |         |                               |
| VERTICAL GEOMETRY                 | <       |         |         | 0.5 %              |         | L= 30m VC          |         | >                  |         | 2.4 %   | ~                  |         | L= 30m VC                     |
| HORIZONTAL GEOMETRY               |         |         |         |                    |         |                    |         |                    |         |         |                    |         |                               |
| DATUM RL40                        |         |         |         |                    |         |                    |         |                    |         |         |                    |         |                               |
| DESIGN LINE<br>(LEFT LIP OF KERB) | 42.623- | 42.673- | 42.691- | 42.734-<br>42.737- | 42.786- | 42.883-<br>42.889- | 42.978- | 43.158-<br>43.172- | 43.288- | 43.458- | 43.647-<br>43.671- | 43.752- | 43.948-<br>43.948-<br>44.002- |
| RIGHT BACK OF KERB                | 42.570  | 42.620  | 42.638  | 42.681<br>42.684   | 42.733  | 42.830<br>42.836   | 42.925  | 43.104<br>43.119   | 43.234  | 43.404  | 43.594<br>43.618   | 43.699  | 43.894<br>43.895<br>43.949    |
| LEFT BACK OF KERB                 | 42.783  | 42.833  | 42.851  | 42.894<br>42.897   | 42.946  | 43.044<br>43.049   | 43.138  | 43.318<br>43.332   | 43.448  | 43.618  | 43.807<br>43.831   | 43.912  | 44.108<br>44.108<br>44.162    |
| EXISTING SURFACE                  | 42.432  | 42.490  | 42.504  | 42.541<br>42.545   | 42.675  | 42.934<br>42.944   | 43.106  | 43.380<br>43.394   | 43.501  | 43.684  | 43.893<br>43.921   | 44.013  | 44.160<br>44.160<br>44.194    |
| CENTRELINE DEPTH                  | -0.190  | -0.183  | -0.187  | -0.193<br>-0.192   | -0.110  | 0.050              | 0.128   | 0.222<br>0.221     | 0.214   | 0.226   | 0.246<br>0.249     | 0.261   | 0.212<br>0.192<br>0.192       |
| CHAINAGE                          | 0.000   | 10.000  | 13.662  | 22.240<br>22.859   | 29.662  | 37.859<br>38.240   | 43.662  | 52.240<br>52.859   | 57.662  | 64.740  | 72.634<br>73.662   | 77.240  | 87.634<br>87.662<br>91.240    |

VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM RL40 DESIGN LINE (RIGHT LIP OF KERB) RIGHT BACK OF KERB LEFT BACK OF KERB EXISTING SURFACE CENTRELINE DEPTH

CHAINAGE

SENSATION WAY INTERSECTION

REFER R301 FOR DETAIL

| 0.5     | 5%      | 1       | L= 30m VC<br>.5 % |                   | 2.49            | 2%         |                               | L= 30m VC          |  |
|---------|---------|---------|-------------------|-------------------|-----------------|------------|-------------------------------|--------------------|--|
| 42.672- | 42.700- | 42.769- | 42.962<br>42.994  | 43.298<br>43.362- | 43.710          | 44.021-    | 44.227-<br>44.271-<br>44.330- | 44.570-<br>44.590- |  |
|         | 42.700  | 42.769  | 42.962<br>42.994  | 43.298<br>43.362  | 43.710          | 44.021     | 44.227<br>44.271<br>44.330    | 44.570<br>44.590   |  |
| 42.995  | 43.024  | 43.092  | 43.286<br>43.318  | 43.621<br>43.686  | 44.034          | 44.345     | 44.550<br>44.595<br>44.653    | 44.893<br>44.914   |  |
| 42.620  | 42.644  | 42.700  | 42.957<br>42.971  | 43.280<br>43.334  | 43.715          | 44.006     | 44.144<br>44.183<br>44.236    | 44.414<br>44.425   |  |
| -0.052  | -0.056  | -0.069  | -0.006            | -0.018            | 0.004           | -0.015     | -0.082<br>-0.088<br>-0.094    | -0.156<br>-0.165   |  |
| 0.000   | 5.657   | 10.000  | 20.657<br>22.240  | 35.657<br>38.240  | 52.240          | 64.740     | 73.000<br>74.796<br>77.240    | 89.796<br>91.240   |  |
| POINT   |         |         |                   | Magnificent Gro   | ve Northbound L | ongitudina | I Section (Right              | Lip Of Kerb)       |  |







#### **ARMSTRONG - STAGE 47A/65A ROAD LONGITUDINAL SECTIONS - 2**

DRAWING TITLE



| IP Details                 |                         |              |  |
|----------------------------|-------------------------|--------------|--|
| IP 1                       |                         |              |  |
| coordinate =<br>chainage = | 264910.1371<br>0.0000   | 5766402.2278 |  |
| IP 2                       |                         |              |  |
| coordinate =<br>chainage = | 264925.2931<br>127.6339 | 5766528.9586 |  |
|                            |                         |              |  |
|                            |                         |              |  |

PROJECT

MAGNIFICENT GROVE SOUTH BOUND DESIGN LINE

CHAINAGE EASTING NORTHING BEARING

0.000 264910.137 5766402.228 6°49'11" IP

127.634 264925.293 5766528.959 6°49'11" IP

MAGNIFICENT GROVE SOUTH BOUND DESIGN LINE

| EXISTING INTERSECTION<br>CORNFLOWER WAY | J      |                |        |                   |         |              |
|---|--------|----------------|--------|-------------------|---------|--------------|
|   |        |                |        |                   | 0.5 %   |              |
| VERTICAL GEOMETRY                       |        |                |        |                   | 0.5 %   |              |
| HORIZONTAL GEOMETRY                     |        |                |        |                   |         |              |
| DATUM RL40                              |        |                |        |                   |         |              |
| DESIGN CENTRELINE                       | 42.178 | 42.208         | 42.240 | 42.258            |         | 42.000       |
| RIGHT BACK OF KERB                      |        | 42.237         | 42.269 | 42.287            | 200 01  | 100.24       |
| LEFT BACK OF KERB                       |        | 42.237         | 42.269 | 42.287            | 766 CV  | 46.001       |
| EXISTING SURFACE                        | 42.122 | 42.146         | 42.162 | 42.175            | 760 CV  | 42.231       |
| CENTRELINE DEPTH                        | -0.057 | -0.063         | -0.078 | -0.084            | 0 071   | - 10.0-      |
| CHAINAGE                                | 27.582 | 33.591         | 40.000 | 43.591            | 63 E01  | 160.00       |
|   |        | LIMIT OF WORKS | L      | <u>Se</u><br>Ongi | INSATIC | )N V<br>\L S |

EXISTING STAGE 46A PROPOSED WORKS

#### BOTANICAL DRIVE INTERSECTION REFER R300 FOR DETAIL

| MAGNIFICENT                | MAGNIFICENT GROVE NORTH BOUND DESIGN LINE |              |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|--------------|--|--|--|--|--|--|--|--|--|--|
| IP Details -               | IP Details                                |              |  |  |  |  |  |  |  |  |  |  |
| IP 1                       |   |              |  |  |  |  |  |  |  |  |  |  |
| coordinate =<br>chainage = | 264895.4915<br>0.0000                     | 5766403.9793 |  |  |  |  |  |  |  |  |  |  |
| IP 2                       |   |              |  |  |  |  |  |  |  |  |  |  |
| coordinate =<br>chainage = | 264910.6475<br>127.6339                   | 5766530.7101 |  |  |  |  |  |  |  |  |  |  |

MAGNIFICENT GROVE NORTHBOUND DESIGN LINE

CHAINAGE EASTING NORTHING BEARING

0.000 264895.491 5766403.979 6°49'11" IP

127.634 264910.647 5766530.710 6°49'11" IP

|         |         |               | BOTA    |
|---------|---------|---------------|---------|
|         |         |               |         |
|         |         |               | _       |
|         |         | $\overline{}$ | -       |
|         |         |               |         |
| >       | 0.5 %   |               | ~       |
|         |         |               |         |
| 44.719  | 44.731  | 44.801        | 44.833  |
| 44.719  | 44.731  | 44.801        |         |
| 45.042  | 45.055  | 45.125        |         |
| 44.759  | 44.855  | 44.902        | 44.849  |
| 0.040   | 0.124   | 0.101         | 0.016   |
| 104.796 | 107.240 | 121.240       | 127.634 |

REFER R300 FOR DETAIL





WARNING

**BEWARE OF UNDERGROUND & OVERHEAD SERVICES** 

The locations of underground & overhead services are

approximate only & their exact position should be proven on site.

DIAL 1100 BEFORE YOU DIG

www.**1100**.com.au

No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

|                  | <br>1 ir | n 50    | 1 in 20 | Q100 RL= 43.064   | 1 in 30 1 in 30 | 1 in 20                              | 1      | <br>in 50 |        |  |
|------------------|----------|---------|---------|---|-----------------|--------------------------------------|--------|-----------|--------|--|
| DATUWI42.0       | 17       | - 11    | 47      | <br>ວິຊີຊີວິຊີວິຊີວິຊີວິຊີວິຊີວິຊີວິຊີວິຊີວິ                            | 35              | <br>ວິວີວີວີວີ                       | 47     | 97        | 37     |  |
| DESIGN SURFACE   | 43.2     | 43.1    | 43.1    | 44433<br>422800<br>28800  | 43.1            | 42.8<br>43.0<br>43.0                 | 43.1   | 43.1      | 43.2   |  |
| EXISTING SURFACE | 43.342   | 43.358  | 43.371  | 44<br>433.395<br>33996<br>33996<br>3996<br>3996<br>3996<br>3996<br>3996 | 43.459          | 43.509<br>43.511<br>43.512<br>43.512 | 43.532 | 43.556    | 43.580 |  |
| OFFSET           | -14.000  | -12.000 | -10.500 | -7.560<br>-7.500<br>-7.200  | 0.000.0         | 7.200<br>7.500<br>7.540<br>7.650     | 10.500 | 13.000    | 15.000 |  |

| =                           |        | <u> </u>         | 50      | 1 in 20 | Q100 RL= 43.233                             | 1 in 30 1 in 30 | 1 in 20                              |        | 1 in 50 |        |
|-----------------------------|--------|------------------|---------|---------|---|-----------------|--------------------------------------|--------|---------|--------|
| DATUM42.0<br>DESIGN SURFACE | 90C CV | 45.500<br>000000 | 43.346  | 0.0.0   | 43.174<br>43.174<br>43.064<br>43.0664       | 43.304          | 43.064<br>43.174<br>43.174<br>43.174 | 43.316 | 43.366  | 43.406 |
| EXISTING SURFACE            | V C V  | 40.474           | 43.492  | 6.000   | 43.529<br>43.530<br>43.530<br>43.533<br>333 | 43.593          | 43.656<br>43.659<br>43.659<br>43.660 | 43.689 | 43.714  | 43.734 |
| OFFSET                      |        | - 14.000         | -12.000 | 000001- | -7.650<br>-7.540<br>-7.200                  | 0.000           | 7.200<br>7.500<br>7.650              | 10.500 | 13.000  | 15.000 |

|                             | 1       | i <del>n 50</del> —— | 1 in 20 | Q100 RL= 43.56                                   | 1 in 30 1 in 30 | 1 in 20                              | 1 in 50 |        |        |
|-----------------------------|---------|----------------------|---------|--|-----------------|--------------------------------------|---------|--------|--------|
| DATUM42.0<br>DESIGN SURFACE | 43.720  | 43.680               | 43.650  | 43.507<br>43.3507<br>43.3507<br>43.397<br>43.397 | 43.637          | 43.397<br>43.507<br>43.507           | 43.650  | 43.700 | 43.740 |
| EXISTING SURFACE            | 43.747  | 43.768               | 43.784  | 43.813<br>43.815<br>43.815<br>43.815<br>43.818   | 43.893          | 43.977<br>43.981<br>43.981<br>43.983 | 44.016  | 44.048 | 44.068 |
| OFFSET                      | -14.000 | -12.000              | -10.500 | -7.650<br>-7.540<br>-7.500<br>-7.200             | 0000.0          | 7.200<br>7.500<br>7.540              | 10.500  | 13.000 | 15.000 |

| REVISION | DATE        | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED |
|----------|-------------|--|---------|-----------|----------|
|          |             |  |         |           |          |
|          |             |  |         |           |          |
|          |             |  |         |           |          |
|          | 0.1/0.0/0.1 |  |         |           |          |
| AC       | 21/06/21    | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |
| 0        | 02/11/20    | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS |
| В        | 26/10/20    | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |
| A        | 24/09/20    | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |





ARMSTRONG - STAGE 47A/65A **ROAD CROSS SECTIONS - 1** CORNFLOWER WAY

DRAWING TITLE

CH 181.203 (LIMIT OF WORKS)

PROJECT

## CH 214.550 (RIGHT TANGENT POINT)

### CH 231.471 (LIMIT OF WORKS)

#### WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.**1100**.com.au



NOTE SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

<u>NOTE</u>

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

|                     | SIGNED (CONS | ULTANT)   |            |           |           |  |
|---------------------|--------------|-----------|------------|-----------|-----------|--|
|                     | SIGNED (CONT | RACTOR)   |            |           |           |  |
| SCALE A             | T A1         | DRAWN     |            | DESIGNED  | )         |  |
| AS SHOWN            |              | С         | .ROHDE     | C.ROHDE   |           |  |
| PROJEC <sup>®</sup> | TENGINEER    | PROJECT N | IANAGER    | DATE FIRS | ST ISSUE  |  |
| N                   | 1.TROUNCE    | Т         | .PALIOS    | A         | PRIL 2020 |  |
| PROJEC              | T No         |           | DRAWING No |           | REVISION  |  |

**R500** 

AC

180016.47A

## AS CONSTRUCTED

STATUS

|                  |                 | 1 in 50  |  |                  |  | 1 in 5 | <u> </u>  |  |
|------------------|-----------------|----------|--|------------------|--|--------|-----------|--|
|                  |                 |          | 1 in 20 Q100 RL= 4   | 44.128 1 in 30 1 | 1 in 30 1 in 20  |        |           |  |
| DATUM43.0        | LBL             |          |  |                  |  |        | RBL       |  |
| DESIGN SURFACE   | 44 303          | 44.273   | 44 138<br>44 138<br>43 028   | 44.139           | 44.028<br>44.1388<br>44.138  | 44.273 | 44.303    |  |
| EXISTING SURFACE | 918.44          | 44.336   | 44.363<br>44.365<br>44.368   | 44.402           | 44.436<br>44.439<br>44.439<br>44.440   | 44.467 | 44.483    |  |
| OFFSET           | 000 8-          | -6.500   | 9200<br>9200<br>9200<br>9200<br>9200<br>9200                       | 0.000            | 3.3.3.3<br>3.9.650<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3<br>3.3.3.3.3<br>3.3.3.3.3<br>3.3.3.3.3<br>3.3.3.3.3<br>3.3.3.3.3<br>3.3.3.3.3.3<br>3.3.3.3.3.3.3<br>3.   | 6.500  | 8.000     |  |
|                  |                 |          |  | CH 53.500        |  |        |           |  |
|                  |                 | _1 in 50 |  |                  |  | 1 in 5 | 50        |  |
|                  |                 |          |  | 43.961 1 11 30   |  |        |           |  |
| DATUM43.0        | LBL<br>36       | 3 9      | 000333   | 73               |  | 90     | 36 RBL    |  |
| DESIGN SURFACE   |                 | 44.1     | 4444<br>33.09<br>83.88<br>83.88                                    | 43.9             | 444<br>6.00<br>8.00<br>0.00<br>0.00  | 44.1   | 44.1      |  |
| EXISTING SURFACE | 251 44          | 44.176   | 44.205<br>44.206<br>44.209   | 44.244           | 44.278<br>44.281<br>44.283   | 44.310 | 44.325    |  |
| OFFSET           | 000 8-          | -6.500   | 9200<br>9200<br>9200<br>9200<br>9200<br>9200<br>9200<br>9200       | 0.000            |  | 6.500  | 8.000     |  |
|                  |                 |          |  | CH 41.000        |  |        |           |  |
|                  |                 | _1 in 50 | <u></u>  |                  |  | 1 in 5 | <u>io</u> |  |
|                  |                 |          |  |                  |  |        |           |  |
|                  | LBL             |          |  |                  |  |        | RBL       |  |
| DATUM42.0        |                 |          |  |                  |  |        |           |  |
| DESIGN SURFACE   | 43 989          | 43.959   | 43.824<br>43.824<br>43.674<br>43.714                               | 43.826           | 43.714<br>43.674<br>43.824<br>43.824   | 43.959 | 43.989    |  |
| EXISTING SURFACE | 44 011          | 44.032   | 44.061<br>44.062<br>44.065<br>44.065                               | 44.101           | 44.136<br>44.140<br>44.141<br>44.141   | 44.170 | 44.186    |  |
| OFFSET           | 8-<br>000<br>8- | -6.500   | 900<br>920<br>920<br>920<br>920<br>920<br>920<br>920<br>920<br>920 | 0.000            | 90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>9000<br>90000<br>9000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>9000000   | 6.500  | 8.000     |  |
| I                |                 |          |  | CH 30.000        |  |        |           |  |
|                  |                 | _1 in 50 |  |                  |  | 1 in 5 | 50        |  |
|                  |                 |          |  | 43.628 1 11 30 1 |  |        |           |  |
|                  | В               |          |  |                  |  |        | RBL       |  |
| DATUM42.0        |                 | 2 2      |  |                  | 202222   |        | 33        |  |
| DESIGN SURFACE   | 43 80           | 43.77    | 43.65<br>43.65<br>43.48<br>43.52                                   | 43.63            | 433.55<br>433.65<br>665<br>665   | 43.77  | 43.8(     |  |
| EXISTING SURFACE | 43 850          | 43.869   | 43.890<br>43.890<br>43.891<br>43.893                               | 43.917           | 43.951<br>43.955<br>43.955<br>43.955<br>43.955   | 43.984 | 44.000    |  |
| OFFSET           |                 | -6.500   | بن بن بن<br>3500<br>3500   | 0.000            | 33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.350<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>33.3500<br>3 | 6.500  | 8.000     |  |
| I                |                 |          |  | CH 16.000        |  |        |           |  |

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT |         |                      |     |  |
|----------|----------|--|---------|-----------|----------|--------|---------|----------------------|-----|--|
|          |          |  |         |           |          |        |         |                      |     |  |
|          |          |  |         |           |          |        | N/I     |                      |     |  |
|          |          |  |         |           |          |        | VII     | iawwa                |     |  |
|          |          |  |         |           |          |        |         | properties           |     |  |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |        |         |                      |     |  |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | C      | ommunit | ies Designed for Liv | ing |  |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |        |         |                      |     |  |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |        |         |                      |     |  |





ARMSTRONG - STAGE 47A/65A **ROAD CROSS SECTIONS - 2 BOTANICAL DRIVE - SHEET 1** 







DATUM43.0

OFFSET

DATUM43.0

OFFSET

DATUM43.0

OFFSET

PROJECT

DESIGN SURFACE

EXISTING SURFACE

DESIGN SURFACE

EXISTING SURFACE

DESIGN SURFACE

EXISTING SURFACE



44.711 -44.718 -44.688 -

44.711 44.711 44.729

<u>1 in 50</u>

44.550

44.597

-6.500

<u>1 in 50</u>

44.439

44.494

-6.500

DRAWING TITLE

500

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-8.042 -8.000

580

44.

44.578

-8.000

469

44

44.475

-8.000

1 in 50 \_\_\_\_\_ Q100 RL= 44.624 1 in 30 \_\_\_\_\_ 1 in 30

<u>1 in 20</u> Q100 RL= 44.405 1 in 30 1 in 30

44

84

44.

CH 90.700 (LEFT TANGENT POINT)

4

44.652

44

44.559

8

CH 66.000

CH 74.300 (LEFT TANGENT POINT)

1 in 30

STATUS

44.634 44.634 44.484 44.524

44.759 44.759 44.759 44.759

-3.800 -3.690 -3.650 -3.350

44.415 44.415 44.265 44.305

44.626 44.626 44.627 44.627

-3.800 -3.690 -3.350

44.304 44.304 44.154 44.194

44.521 44.522 44.522 44.525

-3.800 -3.690 -3.650 -3.350

1 in 20 Q100 RL= 44.294 1 in 30

## **AS CONSTRUCTED**

| SIGNED (CONTRACTOR) |           |             |                  |          |  |  |  |  |  |  |
|---------------------|-----------|-------------|------------------|----------|--|--|--|--|--|--|
| <br>SCALE AT A1     | DRAWN     |             | DESIGNE          | )        |  |  |  |  |  |  |
| AS SHOWN            | С         | ROHDE       | C.ROHDE          |          |  |  |  |  |  |  |
| PROJECT ENGINEER    | PROJECT I | MANAGER     | DATE FIRST ISSUE |          |  |  |  |  |  |  |
| M.TROUNCE           | Т         | .PALIOS     | APRIL 2020       |          |  |  |  |  |  |  |
| PROJECT No.         |           | DRAWING No. |                  | REVISION |  |  |  |  |  |  |
| 180016.4            | 7A        | R50         | 1                | AC       |  |  |  |  |  |  |

SIGNED (CONSULTANT)

| 1 in 20                              | 1 in 3 | 50       |
|--------------------------------------|--------|----------|
|                                      |        | RBL      |
| 44.194<br>44.154<br>44.304<br>44.304 | 44.439 | 44.469 - |
| 44.589<br>44.591<br>44.592<br>44.592 | 44.611 | 44.622   |
| 3.350<br>3.650<br>3.800<br>3.800     | 6.500  | 8.000    |

|   | 1 in 20       | 1 in 50 |        |
|---|---------------|---------|--------|
|   |               |         | RBL    |
| 44.305 +<br>44.265 +<br>44.415 +  |               |         | 44.580 |
| 44.675<br>44.677<br>44.677<br>44.677  | 202<br>77 607 |         | 44.707 |
| 90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>90000<br>9000000 |               |         | 8.000  |





RESERVE

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NOTE SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

WARNING BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.**1100**.com.au

1 in 50

# **BOTANICAL DRIVE**

|                  |         |           | 1 ir               | n 50   | <u>1 in 20</u> Q10 <del>0 RL= 45</del> .497   | <u>1 in 30 —                                     </u> | in 30— — — — — —  |
|------------------|---------|-----------|--------------------|--------|---|---|---|
|                  |         |           | LBL                |        |   |   |   |
| DATUM44.0        |         |           | .2                 | 5      |   | 80  |   |
| DESIGN SURFACE   |         |           | 45.67              | 45.64  | 445.55<br>455.55<br>457.355<br>457.355<br>457.355<br>457.355<br>457.355<br>457.355<br>457.355<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.5555<br>457.55555<br>457.55555<br>457.555555<br>457.5555555555 | 45.50   | 45.30<br>45.33<br>45.50<br>45.50  |
| EXISTING SURFACE |         |           | 45.512             | 45.531 | 4555664<br>4555664<br>4555664<br>4555664  | 45.599  | 45.622<br>45.624<br>45.625<br>45.625  |
| OFFSET           |         |           | -8.000             | -6.500 | 900<br>900<br>900<br>900<br>900<br>900<br>900<br>900<br>900<br>900  | 0.000   | 3.350<br>3.650<br>3.800<br>3.800  |
|                  |         |           |                    |        | CH 145  | .146 (LIMIT OF V                                      | WORKS)  |
|                  |         | 1         | <u>' in 6 1 in</u> | n 50   | _1 in 20 Q100 RL= 45.218  | 1 in 30 1   | in 30   |
|                  |         |           | BL                 |        |   |   |   |
| DATUM44.0        |         |           | 13 EI              |        |   |   |   |
| DESIGN SURFACE   |         | 45.57     | 45.39              | 45.36  | 45.22<br>45.22<br>45.21<br>45.11  | 45.23   | 45.11<br>45.22<br>45.22   |
| EXISTING SURFACE |         | 45.301    | 45.311             | 45.326 | 45.353<br>45.354<br>45.354<br>45.354  | 45.385  | 45.412<br>45.412<br>45.414<br>45.415  |
| OFFSET           |         | -9.105    | -8.000             | -6.500 |   | 0.000   | 3.350<br>3.8690<br>3.8690<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.350<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.3500<br>3.35000<br>3.3500<br>3.3500<br>3.35000<br>3.35000<br>3.35000<br>3.35000<br>3.350000<br>3.35000<br>3.35000<br>3.350000000000 |
|                  |         |           |                    |        |   | CH 129.689  |   |
|                  |         | 1 in 6    | .7 <u>1 ir</u>     | n 50   | 1 in 20   |   |   |
|                  |         |           |                    |        | Q100 RL= 45.016   | <u>1 in 30 1 in 3</u>                                 | 30  |
| DATUM44.0        |         |           | LBL                |        |   |   |   |
| DESIGN SURFACE   |         | 45.488    | 45.191             | 45.161 | 45.026<br>44.916<br>44.916  | 45.028  | 44.916<br>44.876<br>45.026  |
| EXISTING SURFACE |         | 45.088    | 45.112             | 45.131 | 45.165<br>45.165<br>45.167<br>45.171<br>45.171  | 45.213  | 45.250<br>45.254<br>45.254<br>45.255  |
| OFFSET           |         | -9.973    | -8.000             | -6.500 | ۲.<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000  | 00000   | 3.350<br>3.860<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.800<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.8000<br>3.80000<br>3.80000<br>3.80000<br>3.80000000000   |
|                  |         |           |                    |        |   | CH 117.369  |   |
|                  |         | 1 in 10.9 | 1 ir               | n 50   | <u>1 in 20</u> Q100 RL= 44.994  | 1 in 30 1 in 30                                       |   |
|                  |         |           | ЗL                 |        |   |   |   |
|                  | 456     |           | i.169 LE           | .139   | 9000<br>444<br>444<br>444<br>444<br>444<br>444<br>444<br>444<br>444   | :005  | 888<br>8544<br>0000<br>1000   |
|                  | 4 45    |           | 45                 | 3 45   | చర్చరిత్ర<br>సిద్ది సిద్ది<br>సిద్ది సిద్ది సిద్ది<br>సిద్ది సిద్ది సిద్ది<br>సిద్ది సిద్ది<br>సిద్ది సిద్ది<br>సిద్ది సిద్ది<br>సిద్ద సిద్ది<br>సిద్ద సిద్ది<br>సిద్ద సిద్ది<br>సిద్ద సిద్ది<br>సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద సిద్ద<br>సిద్ద సిద్ద స   | <br>45  | 4000<br>5554<br>5554  |
| EXISTING SURFACE | 45.05   |           | 45.08              | 45.10  | 45<br>455.13<br>455.13<br>455.13<br>455.13  | 45.18   | 45.21<br>45.22<br>45.22   |
| OFFSET           | -11.128 |           | -8.000             | -6.500 |   | 000.0   | 3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.3.50<br>3.50  |
|                  |         |           |                    |        | CH 115.85   | )(LEFT TANGE  | NT POINT)   |
|                  |         |           |                    |        |   |   |   |

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT                          |
|----------|----------|--|---------|-----------|----------|---------------------------------|
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          | VIIIAWOOA                       |
| AC       | 21/06/21 |  | RIEECH  |           |          | properties                      |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |

BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are

WARNING

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL













|                          | SIGNED (CONSULTANT)   |  | approxima<br>No guarant<br>all unde | te only & the<br>ee is given t<br>erground ser | tir exact position should be prov<br>hat all existing services are shorvices before commencement of<br><b>0 BEFORE YOU DIG</b> | s are<br>en on site.<br>wn. Locate<br>works |  |  |   |                                      |
|--------------------------|---|--|-------------------------------------|--|--|---|--|--|---|--------------------------------------|
|                          |   | L  |                                     |  | www.11UU.com.au  | ]   |  |  |   |                                      |
|                          |   | SEN  | ISA                                 | TIO  | NWAY   |   | LEC<br>LEC<br>LEC<br>LIC<br>LIC<br>LIC<br>LIC<br>LIC<br>LIC<br>LEFT AND RIC<br>READ IN ASC<br>LONG SECTION | DEND<br>CEND<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT<br>CENT | ING SURFACE<br>3N LINE<br>CT FILL<br>2<br>AL<br>1<br>2<br>QUIRED UNDER P<br>E CONSTRUCTEE<br>ABELS REFER TI<br>DARY RESPECTIVALONG THE RELE | A A1<br>A3<br>A3<br>AVEMENT<br>ABOVE |
|                          |   | 1 in 50  | 1 in 30 Q100                        | RL= 42.422                                     | 1 in 30 1 in 20  | 1 in !                                      | 50   |  |   | ]                                    |
|                          | 1 in 6  | BL   |                                     |  |  | — <u>#/₹</u> !/]                            |  |  |   |                                      |
|                          |   | 2.392  | 2.312                               | 2.394  | 2312<br>2422<br>2422<br>2422   | 2.657                                       | 2.687  |  |   |                                      |
| EXISTING SURFACE         | 41.298  | 42.273<br>42.273<br>42.273<br>42.273<br>42.273<br>42.273   | 42.273                              | 42.274 42                                      | 4222766<br>4222766<br>4222766<br>4222766<br>4222766  | 42.243 42                                   | 42.247 42  |  |   |                                      |
| OFFSET                   | <br>-10.963   | -2.2.900 c   | -2.750                              | 000.0  | 2222<br>22220<br>22220<br>22220<br>22220   | 7.600                                       | 9.100  |  |   |                                      |
|                          |   | CH 70.   | .687 (RIGI                          | HT TANGE                                       | ENT POINT)   |   |  |  |   |                                      |
|                          |   | 1 in 50  | 1 in 30 Q100                        | 0 RL= 42.337                                   | 1 in 30 1 in 20  | 1 in 9                                      | 50<br>7 — — — —  |  |   |                                      |
|                          |   |  |                                     |  |  |   | RBL  |  |   |                                      |
| DATUM41.0 DESIGN SURFACE |   | 42.237<br>42.307<br>42.337<br>42.337   | 42.187                              | 42.308   | 42.227<br>42.187<br>42.337<br>42.337   | 42.572                                      | 42.602   |  |   |                                      |
| EXISTING SURFACE         |   | 42.237<br>42.237<br>42.237<br>42.237<br>42.237   | 42.237<br>42.237                    | 42.237   | 42<br>42<br>42<br>243<br>42<br>243<br>42<br>243  | 42.258                                      | 42.258   |  |   |                                      |
| OFFSET                   |   | -4.822<br>-4.400<br>-2.900   | -2.750<br>-2.450                    | 0.000  | 22.450<br>2.750<br>2.750<br>2.750  | 7.600                                       | 9.100  |  |   |                                      |
|                          |   |  | С                                   | H 53.591                                       |  |   |  |  |   |                                      |
|                          |   | 1 in 50  | 1 in 30 Q100                        | RL= 42.237 1                                   | in 30 1 in 20  | <u> </u>                                    | <u>50</u>  |  | _   |                                      |
| DATUM41.0                |   |  |                                     |  |  |   | RBL  |  | _   |                                      |
| DESIGN SURFACE           |   | 42.146<br>42.207<br>42.237<br>42.237   | 42.087                              | 42.208   | 42.127   | 42.472                                      | 42.502   |  | _   |                                      |
| EXISTING SURFACE         |   | 36         42.146           00         42.146           00         42.146           146         42.146 | 60 42.146<br>60 42.146              | 00 42.146                                      | 00000000000000000000000000000000000000   | 00 42.146                                   | 90 42.151  |  | _   |                                      |
| OFFSET                   |   | 4.76<br>2.29<br>00<br>2.79<br>00<br>2.79   |                                     | 0.00   |  | 7.60  | 9.10   |  |   |                                      |
|                          |   | Cł   | н 33.591 (                          | LIMIT OF                                       | WORKS)   |   |  |  |   |                                      |
|                          |   |  |                                     |  |  |   |  |  |   |                                      |
|                          | DRAWING TITLE<br>ARMSTRONG - STAGE 47A/6                              | 5A   | STATUS                              |  |  |   | SCALE AT A1<br>AS SHOWN  | DRAWN<br>C.ROHI  | DE  | VED<br>C.ROHDE                       |
| RMSTRO                   | ROAD CROSS SECTIONS - 3<br>BOTANICAL DRIVE - SHEET 2<br>SENSATION WAY | 2  |                                     | AS   | CONSTRUCTE   | D   | PROJECT ENGINEER<br>M.TROUNCE  | PROJECT MANAG  | ER DATE F   | IRST ISSUE                           |
|                          |   |  |                                     |  |  |   | PROJECT NO.<br>180016.4  | 47A  | /ING No.<br><b>R502</b>   |                                      |





PROJECT





|                             | <br><u>1 in 7</u> | LBL     | 77      | <u>1 in 50</u>                           | 1 in 30          |        | 1 in 49.4 |        | 1 in 49.4 | 1 in 6 | 1 in 30                              | Q100 RL= 42.648                      | <u>1 in 20 1 i</u> | n 50 1 in | <u>21.6</u> |
|-----------------------------|-------------------|---------|---------|--|------------------|--------|-----------|--------|-----------|--------|--------------------------------------|--------------------------------------|--------------------|-----------|-------------|
| DATUM41.0<br>DESIGN SURFACE | 43.512            | 43.261  | 43.231  | 43.154<br>43.154<br>42.994               | 42.831<br>2.831  | 42.759 |           |        |           | 42.524 | 42.851<br>42.851<br>42.691<br>42.691 | 42.638<br>42.638<br>42.638           | 42.830             | 42.860    | 42.953      |
| EXISTING SURFACE            | 43.092            | 43.034  | 42.991  | 42.881<br>42.878<br>42.878<br>42.869     | 42.761<br>42.760 | 42.759 |           | 42.564 |           | 42.524 | 42.508<br>42.507<br>42.507<br>42.504 | 42,466<br>42,466<br>42,466<br>42,466 | 42.454             | 42.448    | 42.440      |
| OFFSET                      | -20.027           | -18.075 | -16.575 | -12.725<br>-12.615<br>-12.575<br>-12.275 | -7.375<br>-7.075 | -6.644 |           | 0000   |           | 4.962  | 6.925<br>7.035<br>7.375              | 12.275<br>12.615<br>12.725           | 16.575             | 18.075    | 20.075      |



| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED A | APPROVED | CLIENT                          |        |
|----------|----------|--|---------|-----------|----------|---------------------------------|--------|
|          |          |  |         |           |          |                                 |        |
|          |          |  |         |           |          |                                 |        |
|          |          |  |         |           |          | VIIIOVUJO                       |        |
|          | 04/00/04 |  | DIFFOU  |           | TRALICO  | properties                      |        |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |                                 | Level  |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living | East N |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |        |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |        |

CO creo CONSULTANTS el 7, 176 Wellington Parade Melbourne, VIC, Australia 3002



**ARMSTRONG - STAGE 47A/65A ROAD CROSS SECTIONS - 4 MAGNIFICENT GROVE - SHEET 1**  STATUS

AS CONSTRUCTED

DRAWING TITLE

CH 0.000 (TANGENT POINT)

PROJECT

| <u>1 in 66.3</u> | 1 in 66.3 | 1 in 6 1 in 30                                 | Q100 RL= 42.580 1 in 2               | 0 1 in 49. | 2 1 in 26      |   |
|------------------|-----------|--|--------------------------------------|------------|----------------|---|
|                  | <br>      | 28DL   | 2002                                 |            | 22 RBL         | 2 |
|                  | 42.44     | 42.78<br>42.62<br>42.62                        | 42.42<br>42.55<br>57.557             | 42.76      | 42.79<br>42.86 |   |
| 42.507           | 42.449    | 42.435<br>42.435<br>42.435<br>42.433<br>42.433 | 42:403<br>42:402<br>42:402<br>42:402 | 42.377     | 42.370         |   |
| 0.000            | 4.920     | 6.925<br>7.035<br>7.375<br>7.375               | 12.275<br>12.575<br>12.725           | 16.575     | 18.075         |   |
|                  |           |  |                                      |            |                |   |

CH 13.662

CH 22.240

| 1 in 31.8 | 1 in 31.81 | in 6 1 in 30                         | Q100 RL= 42.691 1 in 20              | 1 in 50 | 1 in 19.5 |
|-----------|------------|--------------------------------------|--------------------------------------|---------|-----------|
|           |            | SBDL                                 |                                      |         | KBL       |
|           | 42.554     | 42.894<br>42.734<br>42.734           | 42.571<br>42.681<br>42.681           | 42.873  | 42.903    |
| 42.689    | 42.554     | 42.542<br>42.541<br>42.541<br>42.541 | 42.530<br>42.529<br>42.529<br>42.529 | 42.520  | 42.514    |
| 0.000     | 4.884      | 6.925<br>7.035<br>7.375              | 12.275<br>12.575<br>12.615<br>12.725 | 16.575  | 18.075    |

CH 38.240

|        | $- 1 \text{ in } 6 \\ - 1 \text{ in } 30 \\ - 0 \\ -$ | 2100 RL = 42.846 1 in 20             | 1 in 50 1 in 13.4                   |
|--------|---|--------------------------------------|-------------------------------------|
|        | 42.967<br>43.049<br>42.889<br>42.889  | 42.726<br>42.686<br>42.836<br>42.836 | 43.028 - 43.058 - 43.058 - 43.116 - |
| 43.124 | 42.967<br>42.955<br>42.9553<br>42.953   | 42.834<br>42.827<br>42.822<br>42.824 | 42.739<br>42.712<br>42.711          |
| 0.000  | 6.434<br>6.925<br>7.035<br>7.375<br>7.375   | 12.275<br>12.575<br>12.725<br>12.725 | 16.575<br>18.075<br>18.850          |

#### WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.**1100**.com.au



NOTE SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

#### <u>NOTE</u>

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, SBDL & NBDL REFER TO SOUTHBOUND DEISIGN LINE AND NORTHBOUND DESIGN LINE RESPECITIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

| SIGNED (CONSULTANT) |  |
|---------------------|--|
|                     |  |

DRAWN

C.ROHDE

T.PALIOS

DRAWING No.

**R503** 

PROJECT MANAGER

DESIGNED

C.ROHDE

APRIL 2020

REVISION

AC

DATE FIRST ISSUE

SIGNED (CONTRACTOR)

SCALE AT A1

PROJECT No.

AS SHOWN

M.TROUNCE

180016.47A

PROJECT ENGINEER

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED |                                 |
|----------|----------|--|---------|-----------|----------|---------------------------------|
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          | properties                      |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS | properties                      |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |

|   |                   |         |           |          | EXISTING SURFACE | 43.948   | 43.904  | 43.791<br>43.788   |
|---|-------------------|---------|-----------|----------|------------------|----------|---------|--------------------|
|   |                   |         |           |          | OFFSET           | -18.075  | -16.575 | -12.725<br>-12.615 |
|   |                   |         |           |          |                  |          |         |                    |
|   | ISSUE DESCRIPTION | DRAWN   | CHECKED   | APPROVED | CLIENT           |          |         |                    |
|   |                   |         |           |          |                  |          |         |                    |
|   |                   |         |           |          |                  | awoo     | O       |                    |
| 1 | AS CONSTRUCTED    | B.LEECH | M/TROUNCE | T.PALIOS |                  | properti | es      | Level 7, 176       |

OFFSET

DATUM42.0









1 in 50

1 in 50

1 in 50

EXISTING SURFACE

OFFSET

DATUM43.0 DESIGN SURFACE

![](_page_11_Picture_8.jpeg)

![](_page_11_Picture_9.jpeg)

**ARMSTRONG - STAGE 47A/65A ROAD CROSS SECTIONS - 5 MAGNIFICENT GROVE - SHEET 2**  STATUS

**AS CONSTRUCTED** 

DRAWING TITLE

CH 52.240

PROJECT

| 1 in 30  |                      |          |  |                                      |          |          |
|--|----------------------|----------|--|--------------------------------------|----------|----------|
|  | NBDL                 |          | 1 in 30 Q100 RL= 43.                                     | .114 1 in 20                         | 1 in 50  | 0<br>    |
| 44.034<br>44.034<br>43.884<br>43.874           | 43.710 -<br>43.710 - | 43.542 - | 43.387<br>43.318<br>43.158<br>43.158<br>43.158           | 42.994<br>42.954<br>43.104<br>43.104 | 43.297 - | 43.327 - |
| 43.791<br>43.788<br>43.778<br>43.778<br>43.778 | 43.715<br>43.711     | 43.532   | 43.387<br>43.384<br>43.383<br>43.382<br>43.382<br>43.382 | 43.295<br>43.295<br>43.287<br>43.287 | 43.220   | 43.196   |
| -12.6150<br>-12.6150<br>-12.2755<br>-12.2755   | -7.375<br>-7.075     | 0.000    | 6.509<br>6.509<br>7.375<br>7.375                         | 12.275<br>12.755<br>12.725<br>12.725 | 16.575   | 18.075   |

CH 64.740

|                  |        | <u>1 in 30 Q1</u><br>료                         | 00 RL= 43.414 1 in 20                | 1 in 50          |
|------------------|--------|--|--------------------------------------|------------------|
|                  |        |  |                                      |                  |
| 44.021<br>44.002 |        | 43.691<br>43.618<br>43.618<br>43.458<br>43.458 | 43.294<br>43.254<br>43.404<br>43.404 | 43.597<br>43.627 |
| 44.006<br>44.002 | 43.816 | 43.691<br>43.687<br>43.687<br>43.686<br>43.684 | 43.641<br>43.638<br>43.638<br>43.637 | 43.595<br>43.576 |
| -7.375<br>-6.962 | 0.000  | 6.482<br>6.925<br>7.035<br>7.375               | 12.75<br>12.575<br>12.725<br>12.725  | 16.575           |

CH 77.240

| 1 in 3 | 30 <u>1 in</u> 6           |        |                                      |                                      |           |
|--------|----------------------------|--------|--------------------------------------|--------------------------------------|-----------|
|        |                            |        | <u>1 in 6</u> <u>1 in 30</u> Q100 F  | RL= 43.709 1 in 26                   | ) 1 in 50 |
|        | NBDL                       |        | SBDL                                 |                                      | KBL       |
|        | 44.330<br>44.330<br>44.246 | ,<br>, | 44.025<br>43.912<br>43.752<br>43.752 | 43.589<br>43.589<br>43.699<br>43.699 | 43.891 -  |
|        | 44.236<br>44.240<br>44.246 | 44.117 | 44.025<br>44.011<br>44.013<br>44.013 | 43.948<br>43.948<br>43.943<br>43.942 | 43.891    |
|        | -7.375<br>-7.075<br>-6.571 | 0.000  | 6.244<br>6.925<br>7.035<br>7.375     | 12.275<br>12.575<br>12.725<br>12.725 | 16.575    |

| CH | 91 | .240 |
|----|----|------|

![](_page_11_Figure_18.jpeg)

#### WARNING

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![](_page_11_Figure_23.jpeg)

NOTE SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, SBDL & NBDL REFER TO SOUTHBOUND DEISIGN LINE AND NORTHBOUND DESIGN LINE RESPECITIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

SIGNED (CONSULTANT)

DRAWN

C.ROHDE

T.PALIOS

DRAWING No.

**R504** 

PROJECT MANAGER

DESIGNED

C.ROHDE

APRIL 2020

REVISION

AC

DATE FIRST ISSUE

SIGNED (CONTRACTOR)

SCALE AT A1

PROJECT No.

AS SHOWN

M.TROUNCE

180016.47A

PROJECT ENGINEER

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_1.jpeg)

![](_page_12_Figure_2.jpeg)

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED A | APPROVED | CLIENT   |
|----------|----------|--|---------|-----------|----------|--|
|          |          |  |         |           |          |  |
|          |          |  |         |           |          |  |
|          |          |  |         |           |          |  |
|          |          |  |         |           |          | VIIIUVUJU  |
|          |          |  |         |           |          | properties   |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |  |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living  |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS | uniter 2019-1999 un veter schol ander verliet besetzen sin schores 2 🖤 verschebende briege verliet schauferschore 🖤 is |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |  |

DATUM43.0

OFFSET

![](_page_12_Picture_4.jpeg)

![](_page_12_Picture_5.jpeg)

**ARMSTRONG - STAGE 47A/65A ROAD CROSS SECTIONS - 6 MAGNIFICENT GROVE - SHEET 3** 

DRAWING TITLE

CH 121.240

PROJECT

| NBDL                       |        | 1 in 30 Q100 RL= 44                                      | .2391 in 20                                    | <u>1 in 50</u> | KBL      |
|----------------------------|--------|--|--|----------------|----------|
| 44.801<br>44.801<br>44.801 | •      | 44.457<br>44.442<br>44.282<br>44.282                     | 44.119<br>44.229<br>44.229<br>44.229           | 44.422         | 44.452 - |
| 44.902<br>44.854<br>44.854 | 44.602 | 44.456<br>44.457<br>44.457<br>44.457<br>44.457<br>44.457 | 44.452<br>44.449<br>44.448<br>44.447<br>44.447 | 44.405         | 44.389   |
| -7.375<br>-7.075<br>-6.720 | 0000   | 6.838<br>6.925<br>7.035<br>7.375<br>7.375                | 12.275<br>12.755<br>12.725<br>12.725           | 16.575         | 18.075   |

## CH 127.634 (TANGENT POINT)

|                            |        |  | RL= 44.291 1 in 20                   | 1 in 50          |
|----------------------------|--------|--|--------------------------------------|------------------|
| 44.833<br>44.833<br>44.732 |        | 44.578<br>44.495<br>44.335<br>44.335                     | 44.171<br>44.731<br>44.281           | 44.474<br>44.504 |
| 44.849<br>44.801<br>44.732 | 44.648 | 44.578<br>44.576<br>44.575<br>44.575<br>44.573<br>44.573 | 44.523<br>44.523<br>44.522           | 44.479<br>44.463 |
| -7.375<br>-7.075<br>-6.466 | 00000  | 6.424<br>6.925<br>7.075<br>7.375                         | 12.275<br>12.575<br>12.725<br>12.725 | 16.575           |

#### WARNING

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![](_page_12_Figure_15.jpeg)

NOTE SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, SBDL & NBDL REFER TO SOUTHBOUND DEISIGN LINE AND NORTHBOUND DESIGN LINE RESPECITIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

| SIGNED (CONSULTANT) |  |
|---------------------|--|
|                     |  |
|                     |  |
|                     |  |
|                     |  |

DRAWN

SIGNED (CONTRACTOR)

SCALE AT A1

**AS CONSTRUCTED** 

STATUS

| 180016.4         | 7A        | R50         | 5         | AC        |  |
|------------------|-----------|-------------|-----------|-----------|--|
| PROJECT No.      |           | DRAWING No. |           | REVISION  |  |
| M.TROUNCE        | т         | .PALIOS     | A         | PRIL 2020 |  |
| PROJECT ENGINEER | PROJECT N | MANAGER     | DATE FIRS | ST ISSUE  |  |
| AS SHOWN         | с         | .ROHDE      | C         | C.ROHDE   |  |
|                  |           |             |           |           |  |

DESIGNED

| EX                         | .W     | 131EP                          |        |                  |            |        | 2                                      |        | 3                     | (               | 4      |                  |
|----------------------------|--------|--------------------------------|--------|------------------|------------|--------|--|--------|-----------------------|-----------------|--------|------------------|
|                            |        |                                |        |                  |            |        | MAGNIFICENT GROVE                      |        |                       |                 |        |                  |
|                            |        |                                |        |                  |            |        |  |        |                       |                 |        |                  |
|                            | _      | CONNECT TO EXISTING<br>ENDPIPE |        |                  |            |        |  | [      | SEWER 150mm IL 40.095 |                 |        | CAP & S          |
| DESIGN FLOW (m3/s)         |        | 0.772                          | ~      | <                | 0.778      | ~      | 0.652                                  | ~      | ~                     | 0.653           | ~      | <                |
| AT GRADE VELOCITY (m/s)    |        | <u>&lt;</u> 2.06               | >      | <                | — 1.96 ——— | ~>     | <ul><li>0.051</li><li>1.93 —</li></ul> | ~>     | <                     | 0.766<br>1.78 - |        | <                |
| PIPE SIZE (mm)             |        | < 750Ø                         | >      | <                | 750Ø ———   | >      | < 750Ø                                 | ->     | < .                   | 750Ø            | >      | <                |
| GRADE<br>DATUM             |        | <b>34.0</b>                    | >      | <                | 1 in 166   | >      | ← 1 in 171                             | >      | < 1                   | in 200          | >      | <                |
| DEPTH TO INVERT            | 2.293  | 2.293                          | 2.217  | 2.167            |            | 2.044  | 1.994                                  | 2.154  | 2.104                 |                 | 1.985  | 1.985            |
| HYDRAULIC GRADE LINE       | 40.469 |                                | 40.970 | 41.065<br>41.065 |            | 41.201 | 41.542<br>41.483                       | 41.534 | 41.762<br>41.724      |                 | 41.761 | 41.987<br>41.955 |
| INVERT LEVEL               | 39.938 | 39.938                         | 40.220 | 40.270           |            | 40.439 | 40.489                                 | 40.576 | 40.626                | 40.64           | 40.679 | 40.679           |
| FINISHED SURFACE LEVELS    | 42.231 |                                | 42.437 |                  |            | 42.483 |  | 42.730 |                       |                 | 42.664 |                  |
| EXISTING SURFACE LEVEL     | 42.146 |                                | 42.282 |                  |            | 41.335 |  | 42.713 |                       |                 | 42.723 |                  |
| CHAINAGE<br>(Reach Length) | 0.000  | (42.330)                       | 42.330 |                  | (27.989)   | 70.319 | (14.845)                               | 85.164 | <u>,</u> 88.673       | 10.634)         | 95.799 |                  |

#### NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
- BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER. - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45
- DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98%
- MODIFIED COMPACTION IN 150mm MAXIMUM LAYER. ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ). 3.
- 4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
- 5. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
- 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE

## REINFORCED CONCRETE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

| REVISION | DATE     | ISSUE DESCRIPTION                             | DRAWN   | CHECKED   | APPROVED | CLIENT |
|----------|----------|---|---------|-----------|----------|--------|
|          |          |   |         |           |          |        |
|          |          |   |         |           |          | _      |
|          |          |   |         |           |          |        |
| AC       | 21/06/21 | AS CONSTRUCTED                                | B.LEECH | M.TROUNCE | T.PALIOS |        |
| 1        | 06/01/21 | ALTERED DRAINAGE GRADE & SIZE (RUN 04 - 05EP) | C.ROHDE | M.TROUNCE | T.PALIOS |        |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                            | C.ROHDE | M.TROUNCE | T.PALIOS | 1      |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20)        | C.ROHDE | M.TROUNCE | T.PALIOS | 1      |
| A        | 24/09/20 | ISSUED FOR APPROVAL                           | C.ROHDE | M.TROUNCE | T.PALIOS | 1      |

![](_page_13_Picture_12.jpeg)

![](_page_13_Figure_14.jpeg)

![](_page_13_Figure_15.jpeg)

![](_page_13_Figure_16.jpeg)

![](_page_13_Figure_17.jpeg)

STATUS

![](_page_13_Picture_18.jpeg)

![](_page_13_Picture_19.jpeg)

PROJECT

DRAWING TITLE

ARMSTRONG - STAGE 47A/65A **DRAINAGE LONG SECTIONS - 1** 

|                  |                              |                |                  |         | CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL |
|------------------|------------------------------|----------------|------------------|---------|---|
|                  |                              |                |                  |         |   |
|                  |                              |                |                  |         |   |
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|                  |                              |                |                  |         |   |
|                  |                              |                |                  |         |   |
|                  |                              |                |                  |         |   |
| 0.086            | 0.077                        | >              | 0.07             | 8>      | -   |
| 0.104<br>1.48    | 0.097                        | >              | 0.09             | /<br>/> | ~   |
| 300Ø >           | <u> </u>                     | ->             | 3000             | ð —->   | -   |
| in 85.9 >        | <ul> <li>1 in 100</li> </ul> | _>             | 1 in 1           | 00>     | -   |
| <u>0.0</u>       | 554                          | 716            | 666              | 747     |   |
|                  | ~                            |                | -                |         |   |
| 41.737<br>41.808 | 41.945<br>41.935             | 42.021         | 42.112<br>42.100 | 42.226  | 42.347  |
| .106             | .156                         | 292            | 342              | 536     |   |
| 41.              | 41.                          | 41.            | 41.              | 41.     |   |
| 42.710           |                              | 43.007         |                  | 43.282  |   |
| 630              |                              | 714            |                  | 043     |   |
| 42.              |                              | 42.            |                  | 43.     |   |
| 9.077            |                              | 22.642         |                  | 42.085  |   |
| (9.077)          | (13.565)                     |                | (19.44           | 13)     |   |
|                  |                              |                |                  |         |   |
|                  |                              |                |                  |         | SIGNED (CONSULTANT)                                 |
|                  |                              |                |                  |         |   |
| IND              |                              |                |                  |         | SIGNED (CONTRACTOR)                                 |
|                  |                              |                |                  | 1       |   |

EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE CRUSHED ROCK BACKFILL

# The locations of underground & overhead services are DIAL 1100 BEFORE YOU DIG www.**1100**.com.au

BEWARE OF UNDERGROUND & OVERHEAD SERVICES approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

WARNING

# SCALE AT A1 DRAWN

**AS CONSTRUCTED** 

| 180016.4         | 7A        | R60         | 0         | AC        |  |
|------------------|-----------|-------------|-----------|-----------|--|
| PROJECT No.      |           | DRAWING No. |           | REVISION  |  |
| M.TROUNCE        | Т         | .PALIOS     | A         | PRIL 2020 |  |
| PROJECT ENGINEER | PROJECT N | MANAGER     | DATE FIRS | ST ISSUE  |  |
| AS SHOWN         | с         | .ROHDE      | C.ROHDE   |           |  |
| SCALE AT A1      | DRAWN     |             | DESIGNED  |           |  |

|   |        | 2   |         | 3   |                    | 4   |
|---|--------|---|---------|---|--------------------|-----|
|   |        |   |         |   |                    |     |
| DESIGN FLOW (m3/s)<br>CAPACITY (m3/s)     |        | <ul> <li>0.043</li> <li>0.144</li> <li>0.041</li> </ul> | >       | < 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 18                 |     |
| AT GRADE VELOCITY (m/s)<br>PIPE SIZE (mm) |        | < 2.04<br>< 300Ø  | ~ ~ ~   | < 1.3                                     | 37 <u> </u>        |     |
| GRADE                                     |        | 1 in 45   | ~       | < 1 in                                    | 100                |     |
| DEPTH TO INVERT                           | 1.747  | 36.0  | 1.246   | 1.196                                     | 1.117              |     |
|   | 337    | 452   | 862     | 630                                       | 348                | 374 |
| HYDRAULIC GRADE LINE                      | 6 42.  | 6<br>7.2.2  | 2 43.   | 43.                                       | 8 44               | 44  |
| INVERT LEVEL                              | 41.53  | 42.13   | 43.56   | 43.61                                     | 44.04              |     |
| FINISHED SURFACE LEVELS                   | 43.282 |   | 44.809  |   | 45.165             |     |
| EXISTING SURFACE LEVEL                    | 43.043 |   | 44.412  |   | 44.867             |     |
| CHAINAGE<br>(Reach Length)                | 43.580 | (64 200)  | 107.780 | (43 F                                     | 151.380<br>151.380 |     |
| \·····································    |        |   |         | \-+0.C                                    | /                  |     |

NOTES

PIPE

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING: - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
- ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
- ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ). 3
- 4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED. 5. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE
- PIPE. 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF

## **REINFORCED CONCRETE PIPES**

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| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT                          |   |
|----------|----------|--|---------|-----------|----------|---------------------------------|---|
|          |          |  |         |           |          |                                 |   |
|          |          |  |         |           |          |                                 |   |
|          |          |  |         |           |          | VIIIAWODA                       |   |
|          |          |  |         |           |          | properties                      |   |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |                                 | L |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living | E |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |   |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |   |
|          |          |  |         |           |          |                                 |   |

![](_page_14_Figure_11.jpeg)

![](_page_14_Figure_12.jpeg)

![](_page_14_Figure_13.jpeg)

![](_page_14_Picture_14.jpeg)

![](_page_14_Picture_15.jpeg)

AS CONSTRUCTED M.TROUNCE PROJECT No.

T.PALIOS APRIL 2020 DRAWING No. REVISION 180016.47A R601 AC

![](_page_15_Figure_0.jpeg)

SIGNED (CONTRACTOR)

![](_page_15_Figure_2.jpeg)

#### NOTES

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING: - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
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- 4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
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- 6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE

## **REINFORCED CONCRETE PIPES**

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|            |          |            |         | 1                                      |          |          |
|------------|----------|------------|---------|--|----------|----------|
| CLIENT     | APPROVED | CHECKED    | DRAWN   | ISSUE DESCRIPTION                      | DATE     | REVISION |
|            |          |            |         |  |          |          |
|            |          |            |         |  |          |          |
|            | TRALICO  |            | DIFEOU  |  | 04/00/04 |          |
|            | T.PALIOS | M. IROUNCE | B.LEECH | AS CONSTRUCTED                         | 21/06/21 | AC       |
|            | T.PALIOS | M.TROUNCE  | C.ROHDE | ADDED BLOCKOUT                         | 25/11/20 | 1        |
| Communitie | T.PALIOS | M.TROUNCE  | C.ROHDE | CONSTRUCTION ISSUE                     | 02/11/20 | 0        |
|            | T.PALIOS | M.TROUNCE  | C.ROHDE | AMENDED TO COUNCIL COMMENTS (22/10/20) | 26/10/20 | В        |
|            | T.PALIOS | M.TROUNCE  | C.ROHDE | ISSUED FOR APPROVAL                    | 24/09/20 | A        |

![](_page_15_Picture_14.jpeg)

![](_page_15_Figure_15.jpeg)

![](_page_15_Figure_16.jpeg)

STATUS

![](_page_15_Picture_17.jpeg)

![](_page_15_Picture_18.jpeg)

PROJECT

DRAWING TITLE

**ARMSTRONG - STAGE 47A/65A DRAINAGE LONG SECTIONS - 3** 

(29) (30 ) 0.018 0.018 0.053 2.01 1.33 225Ø 225Ø 1 in 31.6 1 in 71.9 .041 .991 43.593 43.621 43.615 8005 4 4 43.368 43.418 43.43 6 32.900 34.000 (32.900) (33.200)

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

|  | _ |
|--|---|
|  |   |

EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE CRUSHED ROCK BACKFILL

## WARNING

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www.**1100**.com.au

## **AS CONSTRUCTED**

|             | 180016 4 <sup>.</sup> | 7Δ        | R60         | 2                | AC       |  |
|-------------|-----------------------|-----------|-------------|------------------|----------|--|
| PROJECT No. |                       |           | DRAWING No. |                  | REVISION |  |
|             | M.TROUNCE             | .PALIOS   | A           | PRIL 2020        |          |  |
|             | PROJECT ENGINEER      | PROJECT N | MANAGER     | DATE FIRST ISSUE |          |  |
|             | AS SHOWN              | С         | .ROHDE      | C.ROHDE          |          |  |
|             | SCALE AT A1           |           | DESIGNED    |                  |          |  |

SIGNED (CONSULTANT)

SIGNED (CONTRACTOR)

![](_page_16_Figure_3.jpeg)

#### NOTES

CHAINAGE

(Reach Length)

CAPACITY (m3/s)

PIPE SIZE (mm)

GRADE

DATUM

- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
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- ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98%
- MODIFIED COMPACTION IN 150mm MAXIMUM LAYER. 3
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| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED |                                 |
|----------|----------|--|---------|-----------|----------|---------------------------------|
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          |                                 |
|          |          |  |         |           |          | VIIIAVVOJA                      |
|          |          |  |         |           |          | properties                      |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |                                 |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |

CONSULTANTS Level 7, 176 Wellington Parade East Melbourne, VIC, Australia 3002

![](_page_16_Picture_17.jpeg)

0.044 0.058 1.430 569 772 42. 41. NOT IN CONTRAC'I 41.572 41.647 (47.177) (62.723)

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

Ex.W195

EXISTING SURFACE DESIGN SURFACE DRAINAGE PIPE/PIT EXISTING DRAINAGE PIPE/PIT HYDRUALIC GRADE LINE CRUSHED ROCK BACKFILL

Ex.W194

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|                | 180016.4                 | 7A       | R60         | 3          | AC       |
|----------------|--------------------------|----------|-------------|------------|----------|
|                | PROJECT No.              |          | DRAWING No. |            | REVISION |
| AS CONSTRUCTED | M.TROUNCE                | T.PALIOS |             | APRIL 2020 |          |
|                | PROJECT ENGINEER PROJECT |          | MANAGER     | DATE FIRS  | ST ISSUE |
|                | AS SHOWN                 | С        | .ROHDE      | C          | C.ROHDE  |
|                | SCALE AT A1              | DRAWN    |             | DESIGNED   | )        |

|           |                      |           |            |              |                |              | F              | PIT SCHEDULE |       |                  |  |
|-----------|----------------------|-----------|------------|--------------|----------------|--------------|----------------|--------------|-------|------------------|--|
|           | TVDE                 | INTE      | ERNAL      | INLE         | Т              | OUT          | LET            | ESL (m)      |       |                  | DEMADIZS   |
|           | IIFE                 | WIDTH(mm) | LENGTH(mm) | DIAMETER(mm) | INVERT R.L.(m) | DIAMETER(mm) | INVERT R.L.(m) | 1.0.L. (III) |       | STANDARD DRAWING | REIMARNO   |
| Ex.W131EP | EXISTING ENDPIPE     | -         | -          | 750          | 39.938         | Ex.750       | 39.938         | 42.231       | 2.293 |                  | CONNECT TO EXISTING ENDPIPE  |
| 1         | SIDE ENTRY PIT       | 1050      | 900        | 750          | 40.27          | 750          | 40.22          | 42.437       | 2.217 | IDM SD 430 & 410 | HAUNCHED TO 600 x 900 COVER  |
| 2         | SIDE ENTRY PIT       | 1200      | 900        | 750          | 40.489         | 750          | 40.439         | 42.483       | 2.044 | IDM SD 430 & 410 | HAUNCHED TO 600 x 900 COVER  |
|           |                      |           |            | 375          | 40.747         |              |                |              |       |                  |  |
| 3         | JUNCTION PIT         | 1200      | 900        | 750          | 40.626         | 750          | 40.576         | 42.730       | 2.154 | IDM SD 420 & 410 | HAUNCHED TO 600 x 900 COVER  |
| 4         | GRATED PIT           | 1200      | 900        | 750          | 40.679         | 750          | 40.679         | 42.664       | 1.985 | IDM SD 420 & 410 | HAUNCHED TO 600 x 900 COVER. WITH CLASS D BICYCLE SAFE GRATE.  |
| 5EP       | ENDPIPE              | -         | -          | 750          | 40.757         |              |                | 43.083       | 2.326 |                  | CAP & SEAL FOR FUTURE CONNECTION   |
| 6         | DEPRESSED GRATED PIT | 600       | 900        | 300          | 41.000         | 375          | 40.925         | 42.461       | 1.535 | IDM SD 455       |  |
|           |                      |           |            | 300          | 41.000         |              |                |              |       |                  |  |
| 7         | SIDE ENTRY PIT       | 600       | 900        | 300          | 41.277         | 300          | 41.227         | 42.550       | 1.323 | IDM SD 430       |  |
| 8         | SIDE ENTRY PIT       | 600       | 900        | 300          | 41.667         | 300          | 41.617         | 42.834       | 1.217 | IDM SD 430       |  |
| 9         | SIDE ENTRY PIT       | 600       | 900        |              |                | 300          | 42.547         | 43.792       | 1.246 | IDM SD 430       |  |
| 10        | SIDE ENTRY PIT       | 600       | 900        | 300          | 41.156         | 300          | 41.106         | 42.710       | 1.604 | IDM SD 435       | WITH CLASS D TRAFFICABLE COVER   |
| 11        | JUNCTION PIT         | 600       | 900        | 300          | 41.342         | 300          | 41.292         | 43.007       | 1.716 | IDM SD 420       |  |
| 12        | JUNCTION PIT         | 600       | 900        | 300          | 42.136         | 300          | 41.536         | 43.282       | 1.747 | IDM SD 420       |  |
|           |                      |           | 000        | 225          | 41.586         | 202          | 42 5 62        | 44.000       | 4.946 |                  |  |
| 13        | JUNCTION PIT         | 600       | 900        | 300          | 43.612         | 300          | 43.562         | 44.809       | 1.246 | IDM SD 420       |  |
| 14        | JUNCTION PIT         | 600       | 900        |              |                | 300          | 44.048         | 45.165       | 1.117 | IDM SD 420       |  |
| 15        |                      | 600       | 900        | 225          | 42.879         | 225          | 42.849         | 44.051       | 1.202 | IDM SD 460       |  |
| 16        |                      | 600       | 900        | 225          | 43.873         | 225          | 43.823         | 44.902       | 1.079 | IDM SD 425       |  |
|           | JUNCTION PIT         | 600       | 900        | Fut.225      | 44.484         | 225          | 44.434         | 45.434       | 1.000 | IDIM SD 425      | PROVIDE 2250 BLOCKOUT IN WEST WALL FOR FUTURE CONNECTION AT IL44.484                                       |
| P         | EXISTING ENDPIPE     | -         | -          | 300          | 40.840         | Ex.300       | 40.840         | 42.252       | 1.412 |                  | CONNECT TO EXISTING ENDPIPE  |
| 18        | SIDE ENTRY PIT       | 600       | 900        |              |                | 300          | 41.020         | 42.420       | 1.400 | IDM SD 430       |  |
| Ex.W195   | EXISTING PIT         | 600       | 900        | 225          | 42.394         | Ex.225       | 42.344         | 43.821       | 1.477 |                  | CONNECT TO EXISTING BLOCKOUT   |
|           |                      |           |            | 225          | 42.394         |              |                |              |       |                  | CONNECT TO EXISTING BLOCKOUT   |
| 19        | JUNCTION PIT         | 600       | 900        |              |                | 225          | 42.620         | 43.966       | 1.346 | IDM SD 425       |  |
| 20        | JUNCTION PIT         | 600       | 900        |              |                | 225          | 42.532         | 43.492       | 0.960 | IDM SD 425       |  |
| Ex.W175EP | EXISTING ENDPIPE     | -         | -          | 600          | 41.020         | Ex.600       | 41.020         | 43.020       | 2.000 |                  | CONNECT TO EXISTING ENDPIPE  |
| 21        | JUNCTION PIT         | 900       | 900        | 375          | 41.410         | 600          | 41.185         | 43.399       | 2.213 | IDM SD 420 & 410 | HAUNCHED TO 600 x 900 COVER  |
|           |                      |           |            | 600          | 41.235         |              |                |              |       |                  |  |
| 22        | SIDE ENTRY PIT       | 600       | 900        | 375          | 41.899         | 375          | 41.849         | 43.647       | 1.799 | IDM SD 430       |  |
| 23        | SIDE ENTRY PIT       | 600       | 900        | 375          | 41.983         | 375          | 41.953         | 43.648       | 1.695 | IDM SD 430       |  |
| 24        | SIDE ENTRY PIT       | 600       | 900        | 375          | 42.426         | 375          | 42.177         | 43.957       | 1.780 | IDM SD 430       |  |
|           |                      |           |            | 225          | 42.327         |              |                |              |       |                  |  |
| 25        | SIDE ENTRY PIT       | 600       | 900        | 300          | 42.884         | 375          | 42.834         | 44.393       | 1.558 | IDM SD 430       |  |
|           |                      |           |            | 300          | 42.911         |              |                |              |       |                  |  |
| 26        | SIDE ENTRY PIT       | 600       | 900        | 300          | 43.331         | 300          | 43.281         | 44.830       | 1.548 | IDM SD 430       |  |
|           |                      |           |            | 225          | 43.356         |              |                |              |       |                  |  |
| 2752      |                      |           |            | 300          | 43.472         |              |                | 45 534       | 1.000 |                  |  |
| 2762      | ENDPIPE              | -         | -          | 300          | 43.855         |              |                | 45.521       | 1.000 |                  |  |
| 28        | SIDE ENTRY PIT       | 900       | 900        | Fut.600      | 41.576         | 600          | 41.526         | 43.536       | 2.010 | IDM SD 430 & 410 | FUTURE CONNECTION IN NORTHWALL AT IL41.576 & 300Ø BLOCKOUT FOR FUTURE CONNECTION IN EAST WALL AT IL42.056. |
|           |                      |           |            | Fut.300      | 42.056         |              |                |              |       |                  |  |
| 29        | JUNCTION PIT         | 600       | 900        | 225          | 43.418         | 225          | 43.368         | 44.409       | 1.041 | IDM SD 460       |  |
| 30        | JUNCTION PIT         | 600       | 900        |              |                | 225          | 43.880         | 44.895       | 1.015 | IDM SD 425       |  |
| 31        | SIDE ENTRY PIT       | 600       | 900        |              |                | 300          | 42.993         | 44.393       | 1.400 | IDM SD 430       |  |
| 32        | JUNCTION PIT         | 600       | 900        | 225          | 44.259         | 225          | 44.209         | 45.336       | 1.127 | IDM SD 460       |  |
| 33        | JUNCTION PIT         | 600       | 900        |              |                | 225          | 45.014         | 46.000       | 0.986 | IDM SD 425       |  |
| 34        | SIDE ENTRY PIT       | 600       | 900        |              |                | 300          | 43.628         | 45.028       | 1.400 | IDM SD 430       |  |
| Ex.W202   | EXISTING PIT         | 600       | 900        | 300          | 41.879         | Ex.300       | 41.829         | 43.247       | 1.418 |                  | CONNECT TO EXISTING BLOCKOUT   |
| 35EP      | ENDPIPE              | -         | -          | 300          | 42.111         |              |                | 43.451       | 1.340 |                  | CAP & SEAL FOR FUTURE CONNECTION   |

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | CLIENT  |      |
|----------|----------|--|---------|-----------|----------|---|------|
|          |          |  |         |           |          |   |      |
|          |          |  |         |           |          |   |      |
|          |          |  |         |           |          | VIIIawood   |      |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M.TROUNCE | T.PALIOS | properties  |      |
| 1        | 25/11/20 | ADDED BLOCKOUT                         | C.ROHDE | M.TROUNCE | T.PALIOS | properties  | Leve |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living   | East |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS | under 12 No- attent Subtrational Subtrational (Description) 🥌 Automatical Subscription (Subtrational Subtrational Subtr |      |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |   |      |

## NOTE:

PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

PROJECT

![](_page_17_Picture_4.jpeg)

![](_page_17_Picture_5.jpeg)

DRAWING TITLE

ARMSTRONG - STAGE 47A/65A PIT SCHEDULE STATUS

AS CONSTRUCTED

| 180016.4            | 7A        | R60             | 4                | AC       |  |  |  |  |  |
|---------------------|-----------|-----------------|------------------|----------|--|--|--|--|--|
| PROJECT No.         |           | DRAWING No.     |                  | REVISION |  |  |  |  |  |
| M.TROUNCE           | Т         | .PALIOS         | APRIL 2020       |          |  |  |  |  |  |
| PROJECT ENGINEER    | PROJECT N | MANAGER         | DATE FIRST ISSUE |          |  |  |  |  |  |
| AS SHOWN            | с         | C.ROHDE C.ROHDE |                  |          |  |  |  |  |  |
| SCALE AT A1         | DRAWN     |                 | DESIGNE          | )        |  |  |  |  |  |
|                     |           |                 |                  |          |  |  |  |  |  |
| SIGNED (CONTRACTOR) |           |                 |                  |          |  |  |  |  |  |

SIGNED (CONSULTANT)

![](_page_18_Figure_0.jpeg)

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

SIGNED (CONSULTANT)

SIGNED (CONTRACTOR)

![](_page_19_Figure_2.jpeg)

![](_page_20_Picture_0.jpeg)

| REVISION | DATE     | ISSUE DESCRIPTION                      | DRAWN   | CHECKED   | APPROVED | D                               |        |
|----------|----------|--|---------|-----------|----------|---------------------------------|--------|
|          |          |  |         |           |          |                                 |        |
|          |          |  |         |           |          | VIIAWOOD                        |        |
|          |          |  |         |           |          | properties                      |        |
| AC       | 21/06/21 | AS CONSTRUCTED                         | B.LEECH | M/TROUNCE | T.PALIOS |                                 | Level  |
| 0        | 02/11/20 | CONSTRUCTION ISSUE                     | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living | East I |
| В        | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |        |
| А        | 24/09/20 | ISSUED FOR APPROVAL                    | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |        |

![](_page_20_Picture_2.jpeg)

![](_page_20_Picture_3.jpeg)

ARMSTRONG - STAGE 47A/65A SIGNAGE & LINEMARKING

DRAWING TITLE

STATUS

LINEMARKING & SIGNAGE NOTES:

ACCORDANCE WITH AS 1742-3.

AND AS 1742.2, UNLESS SPECIFICALLY SHOWN OTHERWISE.

![](_page_20_Figure_13.jpeg)

SIGNED (CONTRACTOR)

SIGNED (CONSULTANT)

REF

QUANTITY

SIGN SCHEDULE

SIGN

![](_page_21_Figure_0.jpeg)

|        |                      |  |                    |           |                      | VIIIawood                       |
|--------|----------------------|--|--------------------|-----------|----------------------|---------------------------------|
| AC     | 21/06/21             |  | BIEECH             |           |                      | properties                      |
| 0      | 02/11/20             | CONSTRUCTION ISSUE                     | C.ROHDE            | M.TROUNCE | T.PALIOS<br>T.PALIOS | Communities Designed for Living |
| B<br>A | 26/10/20<br>24/09/20 | AMENDED TO COUNCIL COMMENTS (22/10/20) | C.ROHDE<br>C.ROHDE | M.TROUNCE | T.PALIOS             |                                 |

![](_page_21_Picture_3.jpeg)

![](_page_21_Picture_4.jpeg)

**ARMSTRONG - STAGE 47A/65A** CONCRETE JOINTING PLAN

DRAWING TITLE

| EXTEN  | IDED DI | RIVEWA | Y BOUI | NDARY  | - ALIGN | IMENT | L     | Г      |       |
|--------|---------|--------|--------|--------|---------|-------|-------|--------|-------|
|        |         |        |        |        |         |       |       |        | LE    |
| PT NO  | EASTIN  | ١G     | NORTH  | HING   | RL      |       |       |        |       |
| L1     | 264887  | 2.276  | 576638 | 80.905 | 42.56   |       |       |        |       |
| L2     | 264886  | 6.501  | 576638 | 31.861 | 42.579  |       |       |        |       |
| L3     | 264883  | 3.714  | 576638 | 32.976 | 42.632  |       |       |        |       |
| L4     | 264877  | 7.431  | 576638 | 3.727  | 42.733  |       |       |        | ·     |
| L5     | 264874  | 1.531  | 576638 | 32.255 | 42.845  |       |       | L      |       |
| L6     | 264863  | 3.119  | 576638 | 85.964 | 43.07   |       |       |        |       |
| L7     | 264861  | .643   | 576638 | 8.863  | 43.037  |       |       | 4 500  | 10    |
| L8     | 264855  | 5.937  | 576639 | 0.718  | 43.125  |       |       | 1:500  | 10    |
| L9     | 264857  | 7.173  | 576639 | 4.522  | 43.15   |       |       | 1:1000 |       |
| L10    | 264858  | 3.585  | 576639 | 4.063  | 43.122  |       |       |        |       |
| L11    | 264862  | 2.366  | 576639 | 5.988  | 43.347  |       |       | 1.20   | 1     |
| L12    | 264862  | 2.752  | 576639 | 97.177 | 43.378  |       |       | 1.00   |       |
| L13    | 264872  | 2.446  | 576639 | 4.026  | 43.186  |       |       | 1:100  |       |
| L14    | 264872  | 2.225  | 576639 | 92.171 | 43.109  |       |       |        |       |
| L15    | 264874  | .276   | 576638 | 8.962  | 42.812  |       |       |        |       |
| L16    | 264876  | 5.998  | 576638 | 88.077 | 42.758  |       |       |        |       |
| L17    | 264880  | ).218  | 576638 | 37.588 | 42.691  |       |       |        |       |
| L18    | 264886  | 5.299  | 576638 | 37.666 | 42.593  |       |       |        |       |
| L19    | 264886  | 5.897  | 576638 | 88.274 | 42.597  |       |       |        |       |
| CURVE  | E NO    | I      | RAD.   | ARC    | А       | В     | Х     | Y      | I     |
| L10- L | 11      | 90     | 3      | 4.712  | 0.879   | 0.65  | 1.148 | 0.973  | 1.178 |
| L14- L | 15      | 78.812 | 3      | 4.127  | 0.682   | 0.506 | 1.011 | 0.893  | 1.032 |
| L16- L | 17      | 18.744 | 10     | 3.271  | 0.133   | 0.1   | 0.817 | 0.811  | 0.818 |

|                  | 1       | in 6    | 1 in 30  | Q100 RL= 42.832 | 1 in 30 |
|------------------|---------|---------|----------|-----------------|---------|
| OATUM42 0        |         | LBL     |          |                 |         |
| DESIGN SURFACE   | 42.779- | 42.910- | 42.845 - | 42.702 -        | 42.768  |
| EXISTING SURFACE | 42.779  | 42.784  | 42.767   | 42.747          | 42.737  |
| OFFSET           | 7:037   | -6.250  | -4.300   | 0.000           | 2.000   |

|                  | 1 in   | Ô      |        | 1 in 30 | Q100 RL= 42 | 2.937 1 in 30 |        |
|------------------|--------|--------|--------|---------|-------------|---------------|--------|
|                  |        |        |        |         |             |               |        |
| DATUM42.0        |        | LBL    |        |         |             |               |        |
| DESIGN SURFACE   | 42.808 | 43.015 | 42.950 |         |             | 42.807        | 42.874 |
| EXISTING SURFACE | 42.808 | 42.822 | 42.838 |         |             | 42.815        | 42.805 |
| OFFSET           | -7.493 | -6.250 | -4.300 |         |             | 0000          | 2.000  |

|                  |            | 1 in 6 |                | l in 30 Q10 | 0 RL= 43.033 | 1 in 30 |
|------------------|------------|--------|----------------|-------------|--------------|---------|
|                  |            |        |                |             |              |         |
| DATUM42.0        |            | LBL    |                |             |              |         |
| 2711 0111 1210   | 100        | 1 1    |                | 2           | 903 -        | - 026   |
| DESIGN SURFACE   | C V        |        | 43.0           |             | 42.9         | 42.9    |
| EXISTING SURFACE |            |        | 100.24<br>2020 |             | 42.885       | 42.874  |
| OFFSET           | 507<br>100 |        | 002.0-         |             | 0.000        | 2.000   |

|                  |        | 1 in 6          |        | 1 in 30 | Q100 RL= | 43.129   | 1 in 30        |
|------------------|--------|-----------------|--------|---------|----------|----------|----------------|
|                  |        |                 |        |         |          |          |                |
| DATUM42.0        |        | +               | 7 LB   |         |          |          |                |
| DESIGN SURFACE   |        | -00<br>-7<br>-7 | 43.207 |         | 43.06    | 42.999   | 43.06          |
| EXISTING SURFACE | Nag Ch |                 | 42.892 |         | 42.949   | 42.955   | 42.967         |
| OFFSET           |        |                 | -6.250 |         | -2.000   | 0.000    | 2 000          |
|                  |        |                 |        |         | Cł       | 40.68    | 3              |
|                  |        | 1 in f          |        | 1 in 30 | Q100 RL= | 43.033   | <u>1 in 30</u> |
| DATUM42.0        |        |                 | LBL    |         |          |          |                |
| DESIGN SURFACE   |        | 42.834 -        | 43.111 | 43.046  |          | 42.903 - | 42.970         |
|                  |        | 4               | 2      | n       |          | 2        | 4              |

![](_page_21_Figure_11.jpeg)

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

<u>1 in 40 1 in 15.7</u>

1 in 10

CH 35.586

CH 30.490

CH 24.868

STATUS

![](_page_22_Figure_0.jpeg)

| VISION | DATE     | ISSUE DESCRIPTION                             | DRAWN   | CHECKED   | APPROVED | CLIENT                          |
|--------|----------|---|---------|-----------|----------|---------------------------------|
|        |          |   |         |           |          |                                 |
|        |          |   |         |           |          |                                 |
| AC     | 21/06/21 |   | DI EECH |           |          | VIIIUVVOJU                      |
| 2      | 06/01/21 | ALTERED DRAINAGE GRADE & SIZE (RUN 04 - 05EP) | C.ROHDE | M.TROUNCE | T.PALIOS | properties                      |
| 1      | 25/11/20 | ADDED BLOCKOUT                                | C.ROHDE | M.TROUNCE | T.PALIOS | Communities Designed for Living |
| 0      | 02/11/20 | CONSTRUCTION ISSUE                            | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |
| B      | 26/10/20 | AMENDED TO COUNCIL COMMENTS (22/10/20)        | C.ROHDE | M.TROUNCE | T.PALIOS |                                 |

![](_page_22_Picture_2.jpeg)

![](_page_22_Picture_3.jpeg)