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| Logo Fulton Hogan AUS_CMYK_150dpi | **Inspection and Test Plan - Control and Supervision of the Works** | **Document #**  **FHC-ITP-015** | |
| Revision : 1 | Date : 23/01/2024 |

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| **Client:** | **MRPA** | **Construction Process:** | Prepared by: | Reviewed by :  Name: Justin Sciacca  Signed :  Date : 25/01/24 | Approved by : Name:  Signed : Date : |
| **Project:** | **FITZGERALD ROAD CARPARK** | ***Kerb and Channel*** | Name: **Fynn Riddick** |
| **Job No:** |  | **Specifications:** VicRoads Standard Specification – Section 703 |  |
|  |  | **Structure / Component:** Kerb and Channel | Signed : |
|  |  | **Location:** Fitzgerald Road Level Crossing Removal Project | Date : 23/01/2024 |

**Lot No: Lot Details: Lot Size/ Quantity:**

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| **Item** | **Task/Activity Description** | **Inspection / Controls and Verification Detail** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility** | **Checked by:** | | | |
| **No.** | **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection / Test Method** | **Record of conformity** | Project Engineer Site Engineer Superintendent Surveyor Foreman | **Client** | **Fulton Hogan** | **FH's Sub- contractor** | **Date** |
| **1** | **Preliminary Works** | | | | | | | | | | | |
| 1.1 | Check for correct documentation | Prior to commencing any activity | Ensure that all employees and subcontractors are:  - using the correct and complete set of drawings  -all drawings are the latest revision | Drawings and drawing registers | Visual inspection | ITP Signed | **HP\*** | Site Engineer/ Site Foreman | N/A |  | N/A |  |
| 1.2 | Implementation of all measures and controls | Prior to commencing any activity | All necessary measures and controls are being implemented, that is: OHSCP, PHSCP, PCMP, EMP, ECP, CEMP, ERA, QMP, CHMP, SWMS | OHSCP, PHSCP, PCMP, EMP, ECP, CEMP, ERA, QMP, CHMP, SWMS | Visual inspection | ITP Signed | **HP\*** | Site Engineer/ Site Foreman | N/A |  | N/A |  |
| **2** | **Construction Works** | | | | | | | | | | | |
| 2.1 | Setting Out | Prior to start | Set out work in accordance with drawings. The superintendent will review and confirm set out. The alignment and survey/level pegs will be indicated to the Contractor on the Site by the Superintendent prior to the commencement of work. No survey/level pegs to be removed by any persons until completion  of works. | 703.17 | Verify | ITP Signed | **HP** | Site Engineer/ Superintendent |  |  | N/A |  |
| 2.2 | Temporary Drainage Provisions | If Required | If obstructing waterways, culverts or channels, temporary diversion of discharge of drainage and stormwater to be in place. | 703.18 | Visual inspection | ITP Signed | **WP** | Site Engineer/ Site Foreman | N/A |  | N/A |  |
| 2.3 | Bedding | Each lot | All bedding material shall conform with the requirements of sections 812 or 820 for crushed rock and crushed concrete respectively.  Unless otherwise stated, 20mm Class 3 or 4 bedding shall be used and compacted to a thickness of not less than 100mm. Bedding shall be trimmed to appropriate levels, moistened as necessary, and be firmly compacted. | 703.21 | Visual inspection | ITP Signed | **WP** | Site Engineer/ Superintendent | N/A |  | N/A |  |

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| 2.4 | Pre-concrete check | Each lot | Bedding shall be moist but shall have no free water on the surface.  Concrete shall not be placed when the air temperature measured at the point of placement is >35°C or <5°C.  Temperature of concrete, measured immediately prior to placing, shall not be less than 10°C or greater than 32°C.  Concrete to have a minimum of 320kg cementitous mateiral or geopolymer binder per cubic metre of concrete | 703.08  610.17(a)(b)(c) | Verify | ITP Signed Ambient Temperature °C  Concrete Temperature °C | **HP\*/ WP** | Site Engineer/ Superintendent | N/A |  | N/A |  |
| 2.5 | Concrete Placement | Each lot | Concrete is to be fed to extrusion machine at a uniform rate. Concrete is to be satisfactorily compacted so that finished surfaces are free from surface pitting larger than 5mm diameter, honey combing or faulty patches | VicRoads Spec 703.23 | Site Inspection | ITP Signed | **IP** | Site Engineer | N/A |  | N/A |  |
| 2.6 | Finish Surfaces | Each Lot | Edgings: rendered to a thickness not exceeding 3mm and trowel finished.  Concrete to have a neat appearance and uniform colour. | 703.25 | Visual inspection | ITP Signed | **IP** | Site Engineer/ Site Foreman | N/A |  | N/A |  |
| 2.7 | Tolerances | Each Lot | Kerb and channel shall be constructed to the level of the adjoining pavement with a tolerance of ‑0 to +10 mm. Except on curves or in shaped areas, the deviation of the finished work from a 3 m straightedge shall not exceed 5 mm at any point. | 703.15(b) | Verify | ITP Signed | **SCP** | Site Engineer/ Surveyor | N/A |  | N/A |  |
| 2.8 | Joints | Each joint | Transverse joints constructed at intervals not exceeding 2.5m.  Groove cut 20mm deep and > 5mm wide on exposed surfaces, with vertical cut made through the base of the groove (depth  >50mm from surface of section).  Prevent bonding between surfacing and edging either paint with bitumen or use a strip of bitumen | 703.26 | Verify | ITP Signed | **IP** | Site Engineer/ Site Foreman | N/A |  | N/A |  |
| 2.9 | Backfilling | Each Lot | Not earlier than 3 days after casting.  Topsoil material free from perishable matter, lumps or balls of clay. Topsoil compacted behind the edging to a level of the top of the edging and to a width not less than 300mm unless otherwise specified.  Layers shall not exceed 150mm compacted depth. | 703.29 | Verify | ITP Signed | **IP** | Site Engineer | N/A |  | N/A |  |
| **3** | **Completion** | | | | | | | | | | | |
| 3.1 | Survey data captured for as-built purposes | Completion of each lot | Survey to ensure and validate that all works meet level requirements. Review of existing survey control marks and any additional control marks providing verification of conformity of as constructed features with design. As built survey recorded to confirm installation within tolerances in the latest IFC drawings. | IFC Drawings / survey records | Document review | As-built survey records | **SCP** | Project Engineer/ Surveyor | N/A |  | N/A |  |

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| **Final Inspection** |
| The signature below verifies that this ITP has been completed in accordance with the FH’s Quality system Procedures and verifies lot compliance with specifications. |

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| Print Name: Position: Signature: Date: / / | | | | | | | | | | | | |

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| ***Legend*** | | | | | |
| **HP** | Hold Point | Work shall not proceed past the HP until released by the Superintendent | **IP** | Inspection point | Formal Inspection to be done and recorded |
| **HP\*** | FH Hold Point | Work shall not proceed past the HP\* until released by FH | **TP** | Test Point | Product compliance test to be undertaken and recorded/reported |
| **WP** | Witness Point | An inspection which must be witnessed by the Superintendent | **SCP** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Superintendent |  | | |