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|  | **Inspection and Test Plan - Control and Supervision of the Works** | **Document #**  **ITP-004b**  Revision : 02 Date : 28/04/2022 |

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| **Client:** | **Yarra Trams** | **Construction Process:** | Prepared by: |  | Reviewed by : | Approved by : |  |
| **Project:** |  | ***Cement Treated Crush (CTC) Rock Sub Base*** | Name: | Jake Cardillo | Name: **Damon Bromwich** | Name: | **Shaun Kent** |
| **Contract No:** |  | **Specifications:** Vic Roads Standard - 815 Cementitious Treated Crushed Rock for Pavement Subbase  **Structure / Component:** Tram Tracks | Signed : |  | Signed | Signed : |  |
|  |  | **Location:** | Date : | 14/06/2023 | Date : 14/06/2023 | Date : | 14/06/2023 |

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

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| **Item No.** | **Task/Activity Description** | **Inspection / Controls and Verification Detail** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility**  Project Engineer Site Engineer Superintendent Surveyor Foreman | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection / Test Method** | **Record of conformity** | **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 most current and complete design drawing. | Drawings and drawing registers | Visual inspection | This ITP signed | **HP\*** | Fulton Hogan Engineer | 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: PSP, EMP, TMP, SWMS & WP | PSP, EMP, TMP, JSEA, SWMS, WP | Visual Inspection | This ITP signed | **HP\*** | Fulton Hogan Engineer | N/A |  | N/A |  |
| 1.3 | Confirm CTCR is appropriate mix | Prior to commencing any activity | * Cement treated crushed rock proposed for use shall be current, registered mixes in accordance with VicRoads Code of Practice RC500.02 and conform to specified requirements applicable to that class of product. * CTCR shall be tested in accordance with   815.141 by supplier | Design mix specifications | Inspection | This ITP signed | **HP\*** | Fulton Hogan Engineer | N/A |  | N/A |  |
| **2** | **Construction Works** | | | | | | | | | | | |
| 2.1 | Sub base | Each lot | * Sub grade has been inspected, no visible ponding, springing presence, or visible deformation. * ITP-001 HP for subgrade inspection signed off. | VicRoads 173.03 | Inspection / Test Method | This ITP signed | **HP\*** | Fulton Hogan Engineer | N/A |  | N/A |  |
| 2.2 | Moisture content | Each lot | * Moisture content shall be within 0.5 to 1% percentage of mass during time of spreading and compaction | VicRoads 306.05 | Inspection / Test Method | Record of conformity | **IP** | Fulton Hogan Engineer | N/A |  | N/A |  |

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| 2.3 | Jointing | Each lot | * Material shall be spread to minimise number of joins. * Transverse joints in adjoining paver runs shall be offsset by >2m * Longitudinal joints shall be offset from each layer >150mm * Longitudinal Joins shall be within 300mm from   traffic lane lines or centre of traffic lane | VicRoads 306.08 | Visual inspection | This ITP signed | **HP\*** | Fulton Hogan Engineer | N/A |  | N/A |  |
| 2.4 | Conformity with drawings | Each lot | * Pavement sub base shall be finished to smooth and uniform surface * Surface of sub grade shall not lie more than 12mm below a 3m straightedge * Subgrade height shall lie within +15 to -25mm * Sub base height shall lie within +10 to -25mm | VicRoads 306.03  306.11 | Visual inspection | This ITP signed | **WP** | Fulton Hogan Engineer | N/A |  | N/A |  |
| 2.5 | Curing | Each lot | * The surface of each compacted layer shall be kept moist for a period of seven days unless covered at an earlier stage with the succeeding layer or with an approved curing membrane. * As per VicRoads, 4000m2 shall be ***maximum***   lot size   * No trafficking before 24hrs unless approved by superintendent | VicRoads 306.11 | Visual inspection | This ITP signed | **IP** | Fulton Hogan Engineer | N/A |  | N/A |  |
| 2.6 | Compaction testing | Each lot | * CT material shall be placed, trimmed to level and compacted within allowable working time (306.091) * At completion of compaction, any segregation shall be rectified * >500m2 96% modified compaction 6 tests   <500m2 98% modified compaction 3 tests | VicRoads 306.09  306.11 | Visual inspection | This ITP signed | **TP** | Fulton Hogan Engineer | N/A |  | N/A |  |

**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.

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 |  | | |