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| Logo Fulton Hogan AUS_CMYK_150dpi | | **Inspection and Test Plan - Control and Supervision of the Works** | | | | | | | | **Document #**  **FHC-ITP-003** | | |
| Revision : 1 | Date : 23/01/2024 | |
|  | | | | | | | | | | | | |
| **Client:** | **MRPA** |  | **Construction Process:** |  | Prepared by: |  | Reviewed by : | |  | Approved by : |  |  |
| **Project:** | **FITZGERALD ROAD CARPARK** | | ***Preparation of Subgrade*** |  | Name: **Fynn Riddick** | | Name: Justin Sciacca | |  | Name: |  |  |
| **Job No:** |  | | **Specifications:** VicRoads Standard Specification Section 204 | |  |  |  | |  |  |  |  |
|  |  | | **Structure / Component:** Pavement |  | Signed : |  | Signed : | |  | Signed : |  |  |
|  |  | | **Location:** Fitzgerald Road Level Crossing Removal Project | | Date : 18/01/2024 | | Date : 25/01/24 | |  | Date : |  |  |
|  | | | | | | | | | | | | |
| **Lot No:** |  | **Lot Details:** |  |  |  |  | **Lot Size/ Quantity:** | | |  |  |  |
|  | | | | | | | | | | | | |
| **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 | This ITP signed off | **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 | This ITP signed off | **HP\*** | Site Engineer / Site Foreman | N/A |  | N/A |  |
| **2** | **Construction Works** | | | | | | | | | | | |
| 2.1 | Survey Set-Out | Prior to commencement of excavation | Area has been set out in accordance with the drawings | Drawings, Work Procedure | Verify | This ITP signed | **IP** | Site Engineer/ Surveyor | N/A |  | N/A |  |
| 2.2 | Excavation Permit | Each lot | An excavation permit must be issued prior to any excavation commencing.  Plant and equipment shall be appropriate for the task.  Excavation operations shall not disturb areas outside the limit of excavation | Excavation permit | Verify | This ITP Signed Off | **HP\*** | Site Engineer | N/A |  | N/A |  |

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| 2.3 | Subgrade Material Properties | Each Lot | In situ material within 400mm of cut floor level to be consistent with Type B. i.e. CBR>assigned value (must be greater than 2), Swell < 2.5%.  If parameter met rip and re compact 150mm. If parameters not met remove 400mm of material and replace with conforming type B. | 204.06 (e) | Test Point | Test Reports | **TP** | Site Engineer | N/A |  | N/A |  |
| 2.4 | Inspection of Subgrade Material | Each lot | Prior to commencing excavation in any area and during excavation work, the Superintendent and the Contractor shall inspect each type of material encountered and subject to verification by appropriate laboratory testing, agree on the category of the material in accordance with Clause 204.04 | 204.06 (c) | Verify | This ITP Signed Off | **HP** | Site Engineer/ Superintendent |  |  | N/A |  |
| 2.6 | Acceptance of Rock Subgrade (when applicable) | Prior construction of the regulating layer | Prior to construction of the regulating layer, the areas of rock subgrade shall be presented to the Superintendent for acceptance.  Any necessary amendments to the subsurface drainage design including transverse subsurface drainage at the interfaces shall be presented to Superintendent for review. | VicRoads Spec. Cl. 204.06(f) | Site Inspection/ Document Review | Superintendent acceptance  Signed ITP | **HP** | Site Engineer/ Superintendent |  |  | N/A |  |
| 2.7 | Unsuitable Material | Each Lot | Where Unsuitable material is encountered,  proposed in-situ treatment must be submitted to the superintendent for review. | 204.07 (d) | Visual Inspection | This ITP Signed Off | **HP** | Site Engineer/ Superintendent |  |  | N/A |  |
| 2.8 | Groundwater | Each Lot | Where groundwater is encountered the contractor shall notify the superintendent and submit proposed action for review.  The Contractor shall submit any necessary approvals from relevant authorities for the  treatment and disposal of this groundwater | 204.06 (h) | Visual inspection | This ITP signed off | **HP** | Site Engineer/ Superintendent |  |  | N/A |  |
| 2.9 | Trimming and Level conformity | Each Lot | The level at any point on the subgrade shall not  lie more than 20 mm below a 3 m straightedge laid in any direction, except across a crown and water shall not pond at any point. Random level assessments shall not be undertaken in lots not exceeding 4000 m2.  Level tolerances:  **Range x = +15, -30mm Max S = 12 mm**  40 measurements per lot (Scale B) | 204.03(f)(g)(h) | Survey Report | Survey Record | **SCP** | Site Engineer/ Surveyor | N/a |  | N/A |  |
| **3** | **Testing** | | | | | | | | | | | |
| 3.1 | Proof Rolling | Each Lot | Proof rolls to be conducted in accordance with Section 173 of the VicRoads Standard Specification | Section 173 | Visual Inspection | This ITP signed off | **HP\* WP** | Site Engineer/ Superintendent |  |  | N/A |  |

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| **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** |
| 3.2 | Minimum Testing | | Each Lot | Testing of every lot shall continue until three consecutive lots of like material and work have achieved the specified requirements in the first test. After satisfying this requirement and establishing a compaction procedure to the satisfaction of the Superintendent, the Contractor may seek the Superintendent’s agreement to reduce the frequency of testing of subsequent lots to the minimum requirements specified in  Table 204.142 | 204.14 c | Test Point | This ITP signed off | **HP\* WP** | Site Engineer/ Superintendent |  |  | N/A |  |
| 3.2 | Compaction Testing | | Each Lot | Ripped and re-compacted material below Cut Floor Level = minimum compaction 98% SDD.  Type B Material placed within 400 mm of top of Type B Material = minimum compaction 95% SDD.  Type B material 400mm below the top of Type B material and Top 150mm of where fill is to be constructed = minimum compaction 95% SDD. | Table 204.131 | Test Point | Test Records Lot Register | **TP** | Site Engineer | 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. | | | | | | | | | | | | | |
|  | Print Name: |  | Position: |  | Signature: |  |  |  |  | Date: / / | |  |  |
|  | | | | | | | | | | | | | |
| ***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 | | |  | | | | | | | | |