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|  | **Inspection and Test Plan - Control and Supervision of the Works** | | | | **Doc ID:** FH-ZU2-QU- ITP004  **Rev:** 0 | |
| **Client:** APAM (MELBOURNE AIRPORT) | | **Contract No:** CP14038 | | **Prepared By:** Marianne Sales | | |
| **Project:** Taxiway Zulu 2.0 Project | | | **Reviewed By: Jonathon Rock** | | | **Date:** 23/04/2024 |
| **Construction Process:** Select Fill Placement | | | **Approved By: Jonathon Rock** | | | **Date:** 23/04/2024 |
| **Specifications:** Taxiway Zulu 2.0 Program Works Specification ZULU-BECA-001-SPC-00002[C01] & ZULU-BECA-001-SPC-00002[C01] | | | | | | |
| **Structure / Component:** Earthworks | | | | | | |

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| Lot No: | Lot Details: | Lot size/Quantity: | Date: |

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| **Item No.** | **Task/Activity Description** | **Inspection/Test** | | | | | **HP/ WP/ AP/ IP/ TP/ SCP** | **Responsibility** | **Checked by:** | | | |
| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **N**  **/ A** | **Principles Representative** | **Fulton Hogan** | **Date** |
| **1.0** | **Preliminary Activities** | | | | | | | | | | | |
| 1.1 | Check for correct documentation | Prior to works | Ensure that all employees and subcontractors are:   * Using the correct and complete set of drawings. * All drawings are the latest revision | Aconex | Verify | This ITP signed | IP | Project/Site Engineer |  |  |  |  |
| 1.2 | Implementation of all measures and controls | Prior to works | All necessary measures and controls are being implemented, that is: PSP, EMP, TMP, SWMS and WP. | PSP, EMP, TMP, SWMS, WP | Visual inspection | This ITP signed | IP | Project/Site Engineer |  |  |  |  |
| 1.3 | Survey | Prior to works | Area has been surveyed, highlighting any areas where excavations should not occur (e.g. exclusion zone). | PSP, EMP, TMP, SWMS, WP | Visual inspection | This ITP signed | IP | Project/Site Engineer  Surveyor |  |  |  |  |
| 1.4 | Select Fill Material Source (Under Pavements, Imported) | Prior to works | Material to meet the following the properties: | Spec 002 – CL2.5 Cl2.7.5 | Test Report | This ITP signed | **HP** | Project/Site Engineer  Principles Rep |  | Aconex: |  |  |
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|  |  |  | Material Property:    Gradings:    Production testing if supplied select fill will be: 1 per 1,000t for first 5,000t, increase to 1 per 2,000t following conforming 5,000t of conforming results. If material source changes, testing to be re-conducted from start. |  |  |  |  |  |  |  |  |  |

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| 1.5 | Select Fill Material Source (Other Locations, Site Won) | Prior to works | Each source of select fill shall be approved by the Principles Representative. | Spec Cl 2.6.2 | Test Report | This ITP signed | **HP** | Project/Site Engineer  Principles Rep |  | Aconex: |  |  |
| 1.6 | Submission of Select Fill Methodology Plan | 14-days Prior to works | Principal Contractor to submit a Select Fill Methodology addressing the criteria listed in Spec cl. 2.3.1.  Hold Point to be released by Principal’s Representative after acceptance of Select Fill Methodology. | Spec cl. 2.3.2 | Select Fill methodology & verify | Select Fill methodolog y & this ITP signed | **HP** | Project/Site Engineer  Principal’s Rep |  |  |  |  |
| 1.7 | Starting Works | Prior to works | Principles Representative to approve works starting in each Separable Portion | Spec cl. 2.3.1 | Verify | This ITP signed | **HP** | Project/Site Engineer  Principal’s Rep |  | SP8 Aconex: SP9 Aconex: SP10 Aconex: |  |  |
| 1.8 | Preparation of Underlying Surface Layer | Each lot | All excavation and filling are free draining to low points clear of the working area.  Sufficient pumps, well-points, or other equipment for work area are de-watered as required. | Spec cl. 2.8.2  ITP003 | Verify | This ITP signed | IP | Project/Site Engineer  Foreman |  |  |  |  |
| 1.9 | Cut Floor Level | Prior to works | Cut floor to be inspected for suitability - compacted, firm and dry | WMS003 cl 3.3.3 | Verify | This ITP signed | HP\* | Project/Site Engineer  Foreman |  |  |  |  |
| **2.0** | **Select Fill Works – Imported Material - Under Pavements** | | | | | | | | | | | |
| 2.1 | Select Fill Placement | Each Lot | Each Lot of fill must: | Spec cl. 2.8.4 | Verify | This ITP signed | HP\* | Project/Site Engineer |  |  |  |  |

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| **Construction Process:** Select Fill Placement | | | **Approved By: Jonathon Rock** | | | **Date:** 23/04/2024 |
| **Specifications:** Taxiway Zulu 2.0 Program Works Specification ZULU-BECA-001-SPC-00002[C01] & ZULU-BECA-001-SPC-00002[C01] | | | | | | |
| **Structure / Component:** Earthworks | | | | | | |

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| **Frequency** | **Acceptance Criteria** | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **N**  **/ A** | **Principles Representative** | **Fulton Hogan** | **Date** |
|  |  |  | * Not be greater than 200mm in thickness * Material is to maintain within 1% of the optimum moisture content during all steps of placement, compaction, and finishing * Placement of material to commence at the crown or the highest side of the pavement, with each lane spread adjacent to the previously placed lane * The first layer of placed material is dropped and spread using a dozer, grader, or similar plant to prevent trafficking 7mm seal * Material to not be contaminated by foreign materials and other contaminants * Plant and equipment does not traffic 7mm Aggregate Seal |  |  |  |  | Foreman |  |  |  |  |
| 2.2 | Proof Rolling & Compaction | Each Lot | Each layer of select fill under pavements is to be inspected with the Principles Representative.  A medium size vibrating roller (or larger) is to be used for all proof rolls.  At least 5m of longitudinal Select Fill and 500mm of lateral overlap of proof rolling between adjacent areas is needed. | Spec cl. 2.10  Spec Cl 4.6 | Visual Inspection & Verify | This ITP signed | **WP HP HP** | Project/Site Engineer  Principal's Rep |  |  |  |  |

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|  |  |  | At least one working days’ notice is to be provided to schedule the presence of the Principles Representative.  Maximum allowable rutting of 25mm. No heaving to be observed.  Proof rolling of the select fill will be approval to place Sub-basecourse or Basecourse. If rain falls on select fill prior to placing next layer, a further inspection will be required. |  |  |  |  |  |  |  |  |  |
| 2.3 | Final Trimming and Surface Finishing | Per lot (final layer only) | Final layer of Select Fill surface to the required level, grade, and shape with a tolerance of +0mm and -25mm.  Intermediate layers of select fill do not require a Survey Conformance Report | Spec cl 2.11  WMS003 – cl3.4.5 | SCP | This ITP signed | **HP** | Surveyor  Project/Site Engineer  Principles Rep |  |  |  |  |
| **3.0** | **Select Fill Works – Site Won Material – Other Areas (Not Under Pavements)** | | | | | | | | | | | |
| 3.1 | Select Fill Placement | Each Lot | Each Lot of fill must:   * Not be greater than 200mm in thickness. * If required, material to be lightly watered to aid in compaction. * Placement to start on the high side. * Material to not be contaminated by foreign materials and other contaminants. | Spec cl. 2.8.4 | Verify | This ITP signed | IP | Project/Site Engineer  Foreman |  |  |  |  |

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| 3.2 | Proof Rolling & Compaction | Each Lot – intermediate layers | **Intermediate Layers**  Each intermediate layer will be visually inspected for conformance to the specification following compaction.  No rutting greater than 25mm observed | WMS003 – cl3.4.4.1 | Verify | This ITP signed | HP\* | Project/Site Engineer  Foreman |  |  |  |  |
| 3.2 | Proof Rolling & Compaction | Each Lot (final layer only) | **Final layer**  Principles Representative to be invited to visually inspect final layer of Select Fill not under pavements.  At least 5m of longitudinal Select Fill and 500mm of lateral overlap of proof rolling between adjacent areas is needed.  Proof rolling is carried out in the presence of the Principles Representative  At least one working days’ notice is to be provided to schedule the presence of the Contract Administrator.  Maximum allowable rutting is 25mm.  No heaving to be observed. | Spec cl. 2.10  WMS003 – cl3.4.4.1 | Visual Inspection & Verify | This ITP signed | **WP HP HP** | Project/Site Engineer  Principal's Rep |  |  |  |  |
| **4.0** | **Testing & Acceptance** | | | | | | | | | | | |
| 4.1 | Classification and Testing (imported material, under pavements only) | Each Lot | **Imported Material Under Pavements**  Dry Density as per AS1289.5.8.1   * 4 test per lot to achieve average | Spec cl. 2.9  AS1289 5.8.1 | Verify | Test results & This ITP signed | **HP** | Project/Site Engineer  Principles Rep  Foreman |  |  |  |  |

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|  |  |  | * Minimum average standard dry density ratio of no less than 98.0%. * No single standard dry density ratio test result being less than 97.0%. | AS1289 5.8.1  Spec tab. 2-  3 |  |  |  |  |  |  |  |  |
| 4.2 | Lot Acceptance | Each Lot | Principles Representative to review acceptance of lot according to table 2-3. Acceptance of lot will not hold up placing succeeding layer of subbase. | Spec Table 2-3  Cl2.12 | Verify | Test results & This ITP signed | **HP** | Project/Site Engineer  Principles Rep |  |  |  |  |

**Final Inspection**

On behalf of Fulton Hogan it is hereby certified that the Works represented by the items of work listed have been tested in accordance with the Project Quality Plan and conform in all respects with the requirements of the Contract.

**Print Name:**

**Position:**

**Signature:**

**Date:**

**/**

**/**

**Legend:**

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

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**Notes**