**Inspection and Test Plan – Water Relocation**

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| **Project no.** | | **CC-0374** | **Project name** | Pakenham Roads Upgrade | | **Date** |  | | **Approved by** | Damian Hagebols |
| **ITP no.** | 1630-P200-SYM-QAC-ITP-0017 | | **Revision date** | 30/06/2023 | **Plant and equipment used** | | |  | | |
| **Lot no.** |  | | **Location (chainages, detailed description or marked up plan)** | | | | |  | | |

Attach Dockets, Certificates and QA Documents to ITP

|  |  |  |  |  | **Verification of acceptance by** | | | | | **Remarks/record (eg. Test frequency reports, certificates, checklist etc)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **Symal** | | | **Superintendent** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Freq** | **Key** | **Resp** | **Initial/ date** | **Key** | **Sign/ date** |
| **1.0 Pre-start activities** | | | | | | | | | | | |
| **1.1** | Check Survey Set-out | IFC  Drawings | Ensure alignment setout has been completed and pegged.  **Has all of the above been completed?**  **Yes □ No □** | Prior to start of works | H | SE |  |  |  |  |
| **2.0 Materials** | | | | | | | | | | | |
| **2.1** | Material Conformance | AS4130 | Assets installed are correct type, class & diameter and comply with AS4130 (as relevant) unless noted otherwise. | Each Lot | R | SE |  |  |  | **Yes□ No□** **N/A□** |
| **3.0 Depth of Cover** | | | | | | | | | | | |
| **3.1** | Depth of Cover Requirements | VR Clause 706.03 | Cover requirements for water assets shall be:   * Pavement surface to top of conduit minimum 1200 mm. * Invert of open drain to top of conduit minimum 750 mm. * Unpaved areas to top of conduit minimum 600 mm. * As per asset authority requirement for cover to other assets | Each Lot | S | SE |  |  |  | **Yes□ No□** **N/A□** |
| **4.0 Backfill of Excavated Trenches** | | | | | | | | | | | |
| **4.1** | Bedding / Embedment Material Properties | VR Clause 706.06  Table 706.061  VR Clause 706.07  VR Clause 706.09 | Bedding / embedment requirements are to be as specified by VR706 and VR Table 706.061. | Each Lot | R | SE |  |  |  | Test Report (if applicable)  **Yes□ No□** **N/A□** |
| **4.2** | Bedding / Embedment Placement | VR Clause 706.07 | Placement of bedding / embedment is to be as per VR 706.07. | Each Lot | R | SE |  |  |  |  |
| **4.3** | Backfill Material Properties (under paved areas) | VR Clause  Table 706.061 | Backfill material properties to be as per Table 706.061 (See figure 1). | Each Lot | R | SE |  |  |  | NATA Test Report (if applicable)  **Yes□ No□** **N/A□** |
| **4.4** | Backfilling (under paved areas) | VR Clause 706.06, 706.08, 706.09 | Backfilling requirements and placement to be as per VR706.08 and VR706.09:   * Trench shall be backfilled up to the nominated or designed subgrade level with selected backfill material placed and compacted in layers not exceeding 150 mm loose thickness, and above that level with common backfill material. * Moisture Content between 85-115% as determined in the Modified compactive effort. * The number of tests per lot shall be three. Backfill, the whole of which passes the 37.5 mm AS sieve, shall be compacted to a mean value of density ratio of not less than 97% based on Standard compactive effort. A lot shall consist of a single layer of work. A minimum of 20% of all lots constructed shall be tested. * Considerations to be made to allow for Asset Owner Authority working restrictions, including vibratory restrictions. * Detailed proposals for compaction of backfill materials of nominal size greater than 40mm shall be submitted to the Superintendent for review before commencing work | Each Lot | R | SE |  | H |  | NATA Test Report (if applicable)  **Yes□ No□** **N/A□** |
| **5.0 Work Lot Close Out** | | | | | | | | | | | |
| **5.1** | Test Reports | VIC Roads Specifications | All Test reports received and reviewed.  Any specific asset owner QA documents available to be submitted attached.  **Has all of the above been proven to meet and/or exceed minimum tested requirements?**  **Yes □ No □** | Each Lot | R | SE |  |  |  |  |
| **5.2** | As-built Information |  | Where applicable, as-built pickup or as constructed drawing been provided to the authority.  **Has all of the above been completed correctly**  **Yes □ No □ N/A □** | Each Lot | R | SE |  |  |  | Survey Conformance Report or as-built drawings to authority  **Yes□ No□** **N/A□** |
| **5.3** | Product Non-Conformance | CQMP | All Product Non-Conformance(s) recorded and closed (if applicable)  **Has all of the above been proven to meet and/or exceed minimum tested requirements?**  **Yes □ No □** | Each Lot | R | SE |  |  |  | NCR reports  **Yes□ No□** **N/A□** |
| **5.4** | Quality Representative to check the above criteria and records to confirm | CQMP  Lot Records | All above criteria met, and records identified attached.  **Has all of the above been proven to meet and/or exceed minimum tested requirements?**  **Yes □ No □** | Each Lot | R | SE |  |  |  | Completed Checklist (if applicable) and reports and other compliance records attached.  **Yes□ No□** **N/A□** |
| **5.5** | Authority Asset Install Acceptance |  | Audit and approval received from accredited SEW consultant. | Each Lot | R | SE |  |  |  |  |

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| **Works complete (signer SE)** | |  | | | **Date works complete** | |  | | | |
| **Lot conforms (signer PE)** |  | | **Date lot closed** |  | | **NCR/s no. raised** | |  | **Date NCR closed for this lot** |  |

**Responsibility (Resp.) Key**: **PM**-Project Manager, **PE**-Project Engineer, **SE**- Site Engineer, **CS**-Civil Superintendent, **SS**-Site Supervisor, S**V**-Surveyor, **CR**-Client Representative,

**NA –** Nominated Authority

**Inspection Key: W –** Witness, **H –** Hold Point, **S –** Surveillance, **I –** Inspection, **R –** Review Point

**Figure 1.**

Table

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