**Inspection and test plan – Unbound flexible pavement  
construction**

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| **Project no.** | CC0375 | | **Project name** | Hunter Power Project | | | | | | **Date** |  |
| **Symal ITP no.** | | CC0375-ITP-009 | **Revision no.** | 5 | **Revision date** | 13/01/2023 | **Plant and equipment used** | |  | | |
| **UGL ITP no.** | | 3200-0663-HPP-QA-ITP-010 | | | | | **SHL ITP no.** | HPP-UGL-QUA-GN-GEN-ITP-0010 | | | |
| **Lot no.** | |  | **Location (chainages, detailed description or marked up plan)** | | | | |  | | | |

Attach Dockets, Certificates and QA Documents to ITP

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| Contact Details | | Summary of Requirements | | | Principle Codes / Standards | | Records | |
| **Customer:**  **Construction Manager:**  **Project Engineer:**  **Quality Representative:**  Subcontractors    Surveillance / Inspection Key  **HOLD POINT (H):** Nominated point beyond which work shall not proceed without verified acceptance by nominee.  **WITNESS POINT (W):** Points at which the nominee shall be notified and invited to witness an activity, but further work may proceed without the presence of the nominee.  **SURVEILLANCE (S): Continuing** evaluation of the status of methods, analysis of records and monitoring of activities on a random basis to ensure quality requirements will be met.  **VISUAL (V): 100**% Visual Inspection of work / item to ensure compliance with code / specification.  **DIMENSIONAL (D): Measurement** of critical dimensions to ensure work / item is within tolerance | | **Process Qualifications**  **Traceability:**  Material:  Alloy Verification  Heat Treatment:  Pressure Testing  Consumable:  NDT:  Welder ID:  WPS:  Electrical:  Instruments  **Heat Treatment:**  **Dimensional Control:**  **Testing (NDT):**  **Acceptance Specification:**  **Pressure Testing:**  **Elect. / Instrumentation:**  Notes: | | | **Client Specifications**  HPP-AEC-CIV-GN-GEN-SPT-0161\_0 QUALITY (CONSTRUCTION)  HPP-AEC-CIV-RO-PAV-SPT-1141\_0 FLEXIBLE PAVEMENTS  **Engineering Procedures / WI** | | **(MDR Insert as marked )**   * Inspect Release Certs. * Deviations/Concessions * Material Certificates * Conformance Certificate * Welding Records * Welder Qual. Register * NDT Reports * Report on Repairs * Heat Treatment Records * Dimensional Records * Non-Conformance Rpts * Pressure Test Records * Drawings & Data Sheets * Misc Verification Records * Electrical Test Sheets | |
| Prepared by: | Steven Lee | | Date: 13/01/23 | Approved By: Josh Fisicaro | | Date: 13/01/23 | |  |

|  | |  | |  |  |  | **Verification of acceptance by** | | | | | | **Remarks / record (eg. test frequency, reports, certificates, checklist etc)** | |
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|  | |  | |  |  |  | **Symal** | | **UGL** | | **SHL** | |
| **Item no.** | | **Activity** | | **Ref docs** | **Acceptance criteria** | **Acceptance** | **Key** | **Sign date** | **Key** | **Sign date** | **Key** | **Sign date** |
| **1.0 Preliminaries** | | | | | | | | | | | | | | |
| **1.1** | | Documentation | | Drawings | Check that you have the latest site and engineering drawings BEFORE starting each task/set of tasks. | Yes  No  N/A | S |  | S |  | S |  |  | |
| **1.2** | | Lot Traceability | | Spec. 0161 Quality (Construction) [Cl 7.6] | Prepare a lot map for traceability of the work area | Yes  No  N/A | S |  | S |  | S |  | Lot map | |
| **1.3** | | Material Classification and Source | | Spec. 1141 Flexible Pavements [Cl 2.3, 3.0] | Is the correct material being used?  Has the material to be used been approved by UGL (Material certificates to be provided)?  **HOLD POINT**  **Notice: 14 days before commencing** | Yes  No  N/A  Please tick the appropriate box:  DGB20  DGS20  \_\_\_\_\_\_\_\_\_ | **H** |  | **H** |  | **H** |  | Material test certificates | |
| **1.4** | | Set Out | |  | Is the work area clearly pegged out for line and level? | Yes  No  N/A | S |  | S |  | S |  |  | |
| **2.0 Pavement construction** | | | | | | | | | | | | | | |
| **2.1** | | Delivery of Material | | Spec. 1141 Flexible Pavements [Cl 4.2] | Inspection of delivered materials for approval  **WITNESS POINT**  **Notice: Before placing** | Yes  No  N/A | **W** |  | **W** |  | **W** |  | Delivery dockets | |
| **2.2** | | Stockpiling of Materials (if required) | | Spec. 1141 Flexible Pavements [Cl 4.2] | Is the material being stored in an approved stockpile location?  Stockpile foundation to be clear of vegetation and extraneous matter and shaped to form a crown to drain freely.  Stockpile total height < 4m  Shape of batter: Side slopes not greater than 1.5H:1.0V or less than 3.0H:1.0V  **WITNESS POINT: Ongoing** | Yes  No  N/A | **W** |  | **W** |  | **W** |  |  | |
| **2.3** | | Spreading Material | | Spec. 1141 Flexible Pavements [Cl 4.3] | Prior to spreading, previous layer to be inspected by the Superintendent for approval.  Refer to ITP of previous Layer.  **HOLD POINT**  **Notice: Prior to spreading material** | Yes  No  N/A | **H** |  | **H** |  | **H** |  |  | |
| **2.4** | | Moisture | | Spec. 1141 Flexible Pavements [Cl 4.3] | Has the material maintained at optimum moisture content (60 to 90% OMC), with additional water being added if required during compaction? | Yes  No  N/A | S |  | S |  | S |  | Test reports | |
| **2.5** | | Compaction | | Spec. 1141 Flexible Pavements [Cl 4.4] | Is compacted layer thickness between 100-150mm?  Has the layer been adequately compacted to a minimum relative compaction of 97%?  **HOLD POINT**  **Notice: 1 working days after getting results** | Yes  No  N/A | **H** |  | **H** |  | **H** |  | Test reports | |
| **2.6** | | Removal & Replacement | | Spec. 1141 Flexible Pavements [Cl 4.7] | Superintendent to determine the extent of any rejected pavement to be removed. Before replacing the material, area to be reinspected by the superintendent  **HOLD POINT**  **Notice: 1 working day before next activity** | Yes  No  N/A | **H** |  | **H** |  | **H** |  | As built reports | |
| **2.7** | | Maintenance of Base | | Spec. 1141 Flexible Pavements [Cl 4.8] | Finished surface of the base course must be maintained and appropriately drained until the wearing course is completed.  Cover base course with primerseal within 7 days of acceptance unless agreed otherwise with the superintendent (see 1143 Sprayed Bituminous Surfacing)  Non-essential plant to be restricted from using the pavement until primerseal is applied unless otherwise approved.  **WITNESS POINT**  **Notice: within 7 days of acceptance** | Yes  No  N/A | **W** |  | **W** |  | **W** |  |  | |
| **3.0 Conformance check** | | | | | | | | | | | | | | |
| **3.1** | | Pavement finish | | Spec. 1141 Flexible Pavements [Cl 4.6] | Has the pavement course been finished to a smooth and uniform surface parallel with proposed finished wearing surface? | Yes  No  N/A | S |  | S |  | S |  |  | |
| **3.2** | | Width and alignment | | Spec. 1141 Flexible Pavements [Cl 4.6] | Is the pavement width and alignment within tolerance: 0mm to +100mm measured from the design centreline (limited to 50mm per side)  **HOLD POINT**  **Notice: 1 working day before next activity** | Yes  No  N/A | **H** |  | **H** |  | **H** |  | As built reports | |
| **3.3** | | Surface level of pavement courses | | Spec. 1141 Flexible Pavements [Cl 4.6] | Is the pavement surface level within the following tolerances:  **Layer Surface:**  0mm to +10mm  **Top Base Layer adjacent to Kerb and gutter:**  **±** 5mm from lip level of gutter less thickness of wearing course  **Surface deviation:**  **±** 5mm from 3m straightedge laid in any direction, after trimming and immediately prior to seal  **HOLD POINT**  **Notice: 1 working day before next activity** | Yes  No  N/A | **H** |  | **H** |  | **H** |  | As built reports | |
| **3.4** | | Acceptance and closure of non-conforming items | | Spec. 0161 Quality [Cl 3.8] | NCRs to be opened for non-conforming items and closed prior to closing construction lot. **HOLD POINT** | ☐ Yes ☐ No ☐ N/A | **H** |  | **H** |  | **H** |  |  | |
|  | **Comments**: | |  | | | | | | | | | | |  |
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**Lot acceptance:**

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| **Acceptance of works:** | | | | |  | |
| Symal Infrastructure representative name |  |  | Symal Infrastructure representative signature |  | Date |  |
| UGL representative name |  |  | UGL representative signature |  | Date |  |
| SHL representative name |  |  | SHL representative signature |  | Date |  |

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**Inspection Checklist Report**

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| **Project no.** | CC0375 | **Project name** | Hunter Power Project | | **Date** |  |
| **Symal ITP no.** | CC0375-ITP-009 | | | | | |
| **UGL ITP no.** | 3200-0663-HPP-QA-ITP-010 | | **SHL ITP no.** | | HPP-UGL-QUA-GN-GEN-ITP-0010 | |
| **Symal Lot no.** |  | | | | **Symal Sub Lot no.** |  |
| **Location (chainages, detailed description or marked up plan)** | | | |  | | |

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|  | | **Verify of acceptance by** | | | | | | | | | **Remarks / records** |
|  | | **Symal** | | | **UGL** | | | **SHL** | | |
| **ID No.** | **Activity to be verified** | **ITP Step No.** | **Items conforms?** | | | **NCR / Test Report No.** | | **Key** | | **Sign Date** | **Key** | | **Sign Date** | **Key** | | **Sign Date** |  | |
| Yes | No | NA |
| **Preliminaries** | | | | | | | | | | | | | | | | | | |
| 1. | Documentation | 1.1 |  |  |  |  | | S | |  | S | |  | S | |  |  | |
| 2. | Lot Traceability | 1.2 |  |  |  |  | | S | |  | S | |  | S | |  | Lot map | |
| 3. | Material classification and source  **HOLD POINT** | 1.3 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  | Material test certificates | |
| 4. | Set out | 1.4 |  |  |  |  | | S | |  | S | |  | S | |  |  | |
| **Pavement Construction** | | | | | | | | | | | | | | | | | | |
| 5. | Delivery of Material  **WITNESS POINT** | 2.1 |  |  |  |  | | **W** | |  | **W** | |  | **W** | |  | Material dockets | |
| 6. | Stockpiling of Materials (if required)  **WITNESS POINT** | 2.2 |  |  |  |  | | **W** | |  | **W** | |  | **W** | |  |  | |
| 7. | Spreading Material  **HOLD POINT** | 2.3 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  |  | |
| 8. | Moisture | 2.4 |  |  |  |  | | S | |  | S | |  | S | |  | Test reports | |
| 9. | Compaction  **HOLD POINT** | 2.5 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  | Test reports | |
| 11. | Removal & Replacement  **HOLD POINT** | 2.6 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  | As built reports | |
| 12. | Maintenance of Base  **WITNESS POINT** | 2.7 |  |  |  |  | | **W** | |  | **W** | |  | **W** | |  |  | |
| **Conformance Check** | | | | | | | | | | | | | | | | | | |
| 13. | Pavement finish | 3.1 |  |  |  |  | | S | |  | S | |  | S | |  |  | |
| 14. | Width and Alignment  **HOLD POINT** | 3.2 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  | As built reports | |
| 15. | Surface Level and Pavement Courses  **HOLD POINT** | 3.3 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  | As built reports | |
| 16. | Acceptance and closure of non-conforming items  **HOLD POINT** | 3.4 |  |  |  |  | | **H** | |  | **H** | |  | **H** | |  |  | |

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| I certify that this Lot conforms to the requirements of the design and specifications; that all associated NCRs have been closed out: and all survey, conformance testing and inspections have been undertaken in accordance with the specified requirements. | | | | |
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| **Symal Representative** |  | **Signature** |  | **Date** |
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| **UGL Representative** |  | **Signature** |  | **Date** |
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|  |  |  |  |  |
| **SHL Representative** |  | **Signature** |  | **Date** |
| **Comments:** | | | | |
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