

SPARK – North East Link – Primary Package

**Inspection and Test Plan (ITP)**

ITP Title: Unbound Flexible Pavements

ITP Number: NEL-CNT-SDC-2990-PQA-ITP-0029 Rev 3

LOT Number:

Primary Asset Location Code:

Discipline:

**OFFICIAL: Sensitive**

**Spark NELP Approval Record**

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| --- | --- | --- | --- | --- |
| **Function** | **Position** | **Name** | **Signature** | **Date** |
| Prepared By | Quality Representative | Abiola Olulana | Abiola Olulana Digitally  Date: 20 | signed by Abiola Olulana  23.05.04 15:25:25 +10'00' |
| Reviewed By | Project Engineer/Site Engineer | Ali Alfahdawi | Digitally  Ali Alfahdawi Users, DC  DN: CN=A  Date: 2023 | signed by Ali Alfahdawi  li Alfahdawi, OU=Spark NEL  =sparknel, DC=corp  .05.05 11:58:01+10'00' |
| Approved By | Quality Manager | Greg Iro | Greg Iro Digital  Date:  +10'00 | ly signed by Greg Iro 2023.05.08 09:58:50  ' |

*Note:*

1. *Ensure all Records or Checklist References are attached and that each Inspection Requirement is clearly named, signed, and dated.*
2. *Ensure every Records or Checklist References attached are legible*
3. *This Inspection Test Plan may be generic – ensure the requirement is demographically clear to your scope of work*
4. *Verification Inspections where applicable for the IREA stated as “Witness” or “Hold” shall be formally notified for their engagement and with sufficient advance notice time (i.e. 3 days or as agreed with the Sub-IREA Representative and/or the Nominated Authority)*
5. *All Nominated Authority Hold Points are Witness Points for Sub-IREA*
6. *The Sub-IREA representative is not required to physically sign-off on ITPs*

ITP – Unbound Flexible Pavements Spark PMS Doc# MSF28-2-NEL Rev 3

**Document Number:** NEL-CNT-SDC-2990-PQA-ITP-0029. **Revision: 3**

Management System - Uncontrolled Document when Printed Webuild Source Doc# MSF28-2

**OFFICIAL: Sensitive**

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| **Subcontractor** | | **Spark NEL Engineer** | **Nominated Authority** | **IREA** |  |  |
| **1.0** | **Preliminaries (Include all aspects of Materials, Approvals, IFC Drawings, etc. Ensure all required permits have been raised prior to commencing works)** | | | | | | | | | | | | |
| 1.1 | PE | Construction Package Approval | PSDR Part F6 2  (a) to (h) | Construction Documentation shall be submitted and approved prior to commencing work at site. | R | PW | NR | | **HP** | NR | NR | IFU Construction Package  InEight Reference:  # |  |
| 1.2 | PE | Design status | PSDR Part F5,  2(b) & (c)(i) | Design to be IFC prior to works commencing | V | PW | NR | | **HP** | NR | NR | IFC Drawings InEight Reference:  # |  |
| 1.3 | SE | All Equipment calibrated | CQMP Plan Section 11.1 | Equipment calibration certificates filed in InEight  Ensure all equipment associated with the relevant works is calibrated | R | PW | **HP** | | **HP** | NR | NR | Calibration Certificates  InEight Reference: # |  |
| 1.4 | SE | Survey Set Out | PSDR Part F4 Section 6, IFC Drawings | Clearly mark limit of works; Chainage, offsets, cut/fill level etc. (if required) | V | PW | **HP** | | **HP** | NR | NR | Survey Record InEight Reference:  # Lot Map |  |
| 1.5 | PE | Crushed Rock Mix Registration | VR812.04 RC500.02  IFC Drawings | All crushed rock proposed for use on VicRoads funded works shall be current registered mixes in accordance with VicRoads Code of Practice RC500.02  and conform to specified | V | PW | **HP** | | **HP** | NR | NR | CRFI  InEight Reference: # |  |

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|  |  |  |  | requirements applicable to that class of product.  Mixes registered by VicRoads as ‘General’ may be used in the construction of roadworks.  Mixes registered as ‘Conditional’ may be used provided the conditions are complied with. Mixes registered as ‘Experimental’ shall only be used with written approval from Design (CRFI  from CPS). |  |  |  | |  |  |  |  |  |
| 1.6 | PE | Materials Conformance | VR 304.03, VR801, VR812 VR 811,  VR 818,  IFC Drawings | Material supplied complies with the Class of material required on the IFC drawing.  Prior to the commencement of work, the Subcontractor shall nominate the material source from which the crushed rock and aggregate will be obtained.  Material sources used in the production of crushed rock shall comply with the relevant requirements of Section 801 Source Requirements for the Production of Crushed Rock and Aggregates.  Sand, Gravel and soft or ripped rock material shall meet the relevant  requirements of Tables | V | PW | **HP** | | **HP** | NR | NR | CRFI  InEight Reference:  # Grading Figures Material Delivery Dockets |  |

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|  |  |  |  | 811.041 and 811.042 and shall be free from vegetable matter and lumps or balls of  clay or other deleterious  matter. Verify conformance via CRFI to Design. |  |  |  | |  |  |  |  |  |
| 1.7 | PE | Water Source | VR304.03 | Any water added to the pavement material must meet the following criteria:  Clean and substantially free from oils, salts, acids, alkalis and vegetable substances. Maximum of 1000 mg/L of suspended solids.  Where dissolved salts are known or likely to be present, electrical conductivity less or equal 3500 µS/cm.  Potable water is exempt from these requirements. | V | PL | WP | | WP | NR | NR | [ ] Test Results  [ ] Quantity of Water Added (L): |  |
| 1.8 | PE | Sub- Subcontractor(s) quality documents + Inspection Test Plan (if required) | CQMP Section 8.2.2.4 | Ensure Sub-subcontractor(s) have submitted signed ITP’s and checklists along with all relevant supporting documents.  Ensure ITP Review Checklist is complete (only applicable to Sub-Subcontractors ITP). | V | PL | WP | | WP | NR | NR | Approved Subcontractor’s Quality Documentation |  |
| **2.0** | **Operations (Include Work Execution – Installation / Manufacturing Process step-by-step)** | | | | | | | | | | | | |

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| 2.1 | SE | Subgrade Preparation | VR204, VR210, VR304.04 | Prior to placing subbase material, the subgrade shall meet the requirements of Section 204.  The subgrade has been prepared for placement and Earthworks Excavation ITP signed off.  Confirm that subgrade compaction testing, level conformance and proof roll have passed. | V | PW | **HP** | | **HP** | NR | NR | [ ]Subgrade Lot Number: |  |
| 2.2 | SE | Verify Conformance of Previous Layer | VR304.06, VR304.10, Table 304.101, IFC  Drawings | Previous layer completed. Documentation available and complying.   1. Testing rolling - 2. Compaction testing  * Refer VicRoads 204 for   subgrade,   * Table 304.101 (below) for   previous controlled product layer  3. Level survey conformance, As-built Records for all lots immediately below this new  layer. | R | PL | **HP** | | **HP** | NR | NR | [ ]Subgrade Lot Number: |  |
| 2.3 | SE | Placement of Material | VR 304.06 & VR304.08 & IFC  Drawings | Material has been spread and  compacted such that the material is properly mixed | V | PL | WP | | WP | NR | NR | This ITP |  |

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|  |  |  |  | both transversely and longitudinally to produce a homogeneous material for each lot.  During compaction shall have a moisture content of not less than 85% of optimum.  Surface finish to be:   * Smooth and uniform. * Free of segregated areas.   Base layer shall not exceed 150mm.  Sub-base layer shall not exceed 200mm |  |  |  | |  |  |  |  |  |
| 2.4 | SE | Material of Nominal Size Greater than 40mm (if required) | VR304.08 (c) | The first lot shall be placed as a trial section. Following acceptance of the trial section, the Subcontractor shall then confirm the moisture control and compaction procedure and submit the procedure to the Nominated Authority for review and record. | V | X1 | **HP** | | **HP** | **HP** | WP | HP Release InEight Reference:  # |  |
| 2.5 | SE | Jointing | VR304.07 | * Joints have been minimised. * Transverse - Offset by >2m to any underlying pavement   layers. | V | PL | WP | | WP | NR | NR | This ITP  Lot Map showing construction joints |  |

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|  |  |  |  | * Longitudinal - Offset by   >150mm to any underlying pavement layers.   * longitudinal joints shall be located within 300 mm of the   planned position of traffic lanes lines or within 300 mm of the centre of a traffic lane. |  |  |  | |  |  |  |  |  |
| 2.6 | SE | Testing – Stability (Proof Roll) | VR304.08 VR173 | During testing, material has a moisture content of >85% OMC.  The Subcontractor shall provide for the Nominated Authority to be present during all test rolling.  Testing frequency shall be in accordance with Appendix A of this ITP. | V | PL | **HP** | | **HP** | **HP** | WP | HP Release InEight Reference:  # |  |
| 2.7 | SE | Post Compaction | VR173, VR304.08, Table VR304.081 VR304.10,  Table 304.101,  Table 304.103 VR304.11, Table 304.111  IFC Drawings | During testing, material has a moisture content of >85% OMC  Any segregated areas have been rectified.  Tests performed using Modified compactive effort to Scale A. Six tests per lot.  Requirements:  Subbase Layers – CBR not less than 98% | V | X1 | **HP** | | **HP** | NR | NR | NATA Compaction Report Number |  |

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|  |  |  |  | Base Layer - Characteristic Density Ratio not less than 100% directly beneath bituminous surface or 99% for other layers.  The test samples to be used for post-compaction grading and PI tests shall be a combined sample made up from six randomly selected increments extracted from the lot of pavement construction being assessed.  Post compaction PI for: Class 1 Crushed Rock shall be between 2 and 6  Class 2 Crushed Rock shall be between 0 and 6  Class 3 Crushed Rock shall be between 0 and 10  Post compaction grading based on sieve analysis. See Table 304.101 for grading  requirements. |  |  |  | |  |  |  |  |  |
| 2.8 | SE | Protection of Compacted Layer | VR304.09 | Surface of each compacted layer has been kept moist, in good order/condition & free from contamination until the  subsequent pavement work is to commence. | V | PL | WP | | WP | NR | NR | This ITP |  |
| 2.9 | SE | Reuse of trimmed material (if required) | VR304.06 | Any material that has been compacted and then trimmed | V | X1 | **HP** | | **HP** | WP | WP | WP Release InEight Reference: |  |

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|  |  |  |  | from the compacted surface to conform to the correct level or thickness as shown on the drawings shall not be re-used in the pavement construction without the approval of the Nominated Authority. |  |  |  | |  |  |  | # |  |
| **3.0** | **Post Operations (Include Inspection and Testing)** | | | | | | | | | | | | |
| 3.1 | SE | Survey Conformance | VR304.06  Design Management Plan NEL-CNT- SDC-2990-PDM- MPL-0001  Section 5.4 | Each pavement course has been finished to smooth and uniform surfaces, free of segregated areas, and conforming to the limits for level, line, grade, thickness and cross section shown on the drawings or as specified.   * Width and Alignment:   Is not less than the specified offset width or >50mm outside when measured at right angle from the design line  Shape:  Surface does not vary by  >8mm from a 3m straight edge, or 10mm from a 6m straight edge, placed in any direction. Water cannot pond on the surface of any pavement layer.  The surface level of the pavement courses has been | V | PL | WP | | WP | NR | NR | As-Built Survey Report InEight Reference:  # |  |

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|  |  |  |  | measured in accordance with the requirements of Scale A (80pts per lol less than 4000m2)  Surface Level – Scale A: Lower Subbase  Range (mm) +6 to -10 Max. S (mm) 10 Upper Subbase  Range (mm) +4 to -8, Max. S (mm) 8  Base  Range (mm) +5 to -5, Max. S (mm) 8 |  |  |  | |  |  |  |  |  |
| 3.2 | PE | Redline Drawings | Design Management Plan NEL-CNT- SDC-2990-PDM- MPL-0001  Section 5.4 | Redline Drawings submitted to Project for creation of As- Built Drawings. | V | PL | **HP** | | **HP** | NR | NR | Red-Line Marked Up IFC Drawing(s) |  |
| 3.3 | PE | Verification and Lot Records complete | CQMP Section 8.3 | Progressive monitoring and signoff of Checklists occurs, and test records are collected.  Ensure completed work checklists, inspection and test results and Subcontractor conformance records are progressively and permanently saved and stored as soon as possible after they  are received. Completed construction lot records are | V | PL | **HP** | | **HP** | NR | NR | This ITP Lot Record |  |

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|  |  |  | |  | transferred to the project Quality Team for final record  verification prior to being closed | |  | |  |  | | |  | |  |  |  | |  |
| **4.0** | **Quality** | | | | | | | | | | | | | | | | | | |
| 4.1 | QSR | Identification and control of non- conforming products or services  (if applicable) | | CQMP Section 8.3 | Review and confirm closure of NCR’s and associated RFI’s prior to closing of construction lot. | | R | | PL |  | | | **HP** | |  |  | NCR closed with related documentation | |  |
| 4.2 | QSR | Check all quality records for lot closure | | CQMP Section 8.3 | All applicable quality records are complete. | | R | | PL |  | | | **HP** | |  |  | Compiled documents (all data reports and records) | |  |
| **Legend:** | | | | | | | | | | | | | | | | | | | |
| **Responsibility** | | | | | | | | **Method** | | **Inspection / Verification** | | | | **Test Frequency** | | | | **Other** | |
| SS: Site Supervisor SE: Site Engineer PE: Project Engineer  SPE: Senior Project Engineer GE: Geotechnical Engineer PS: Project Surveyor | | | | PSM: Project Systems Manager QSR: Quality Site Rep.  STR: Structural Engineer SSR: Site Safety Rep.  EMR: Environmental Management Rep. NA: Nominated Authority (Release of HP)  IREA: Independent Reviewer (Observer) | | | | V: Verify I:  Inspection R: Review T: Test | | HP: Hold Point WP: Witness Point NR: Not Required | | | | PW: Prior to Works PL: Per Lot  F: Full or 100% Inspection or Testing  X1: Inspect or Test at Specified Frequency  X2: Random Inspection or Test | | | | QP: Quality Plan  RFI: Request for Information NCR: Non-Conformance VC: Verification Checklist  XXXX: Sequential Number from Doc Control | |
| **DDD – Types:** B – Building, C – Civil, G – General, M – Mechanical & Electrical, I – Motorway Operations System (ITS), S – Structure, O – Tolling, T – Tunnel, U – Urban Design & Landscape | | | | | | | | | | | | | | | | | | | |
| **Supplier/Subcontractor: (If applicable)** | | | **Name** | | | **Signature and Date** | | | | | | **Spark-NELP REP** | | | **Name** | | | | **Signature and Date** |
|  | | |  | | | | | |  | | | |  |

**Lot closure comments**:

**Spark NELP QA Rep**:

**Name Signature: Date:**

**Appendix A**





