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| WAKA KOTAHI NZ TRANSPORT AGENCY | Downer | Construction Process: **Modified Basecourse Layer** | **Start RP** | | **INSPECTION AND TEST PLAN - VERSION CONTROL** | | **B** | **0 - IFC** | **1 - IFC** | **2 - IFC** |
| | | | **Finish RP** | | Prepared by Pavement Designer: | Thorsten Froebel | 12/8/24 | 1/08/2024 | 24/11/24 | 4/02/2025 |
| | | Project Name: **T2W - Tirau to Waiouru - Rehabilitation Works** | | | Reviewed by Construction Manager: | Wayne Bowden | | 2/09/2024 | | 4/02/2025 |
| | | | | | Reviewed by Surf./ Pavmt Manager: | Aiden Smith / Nick Schilov | 19/8/24 | 2/09/2024 | 24/11/24 | 4/02/2025 |
| **Client's Rep. : Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL)** | **Contractor's Rep. : Wayne Bowden (CM) / Sid Rudani (PM)** | Specifications: **NZTA B/5: Specification for In-Situ Stabiisation of Modified Pavement Layers, NZTA M/4: Spec forBasecourse Aggregate, NZTA T/19: Procedures for Direct and Indirect Tensile Strength Testing of Modified and Bound Pavement Materials** | | | Approved Quality Manager.: | Hansel Feliciano | | 2/09/2024 | | 4/02/2025 |
| | | | | | Approved by: Pavements SME.: | Thorsten Froebel | | 3/09/2024 | | 4/02/2025 |
| | | | | | Issued by: Project Director | Chris Seath | | 3/09/2024 | | 4/02/2025 |

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| **1.0. AGGREGATE AND BINDER OPTIMISATION / ACCEPTANCE TESTING / DESIGN and DRAWINGS** | | | | | | | | | | | | | |
| 1.01 | AP40 Basecourse Aggregates used for overlay (if applicable)<br><br>Notes:<br>H = Hold point up to approval of Optimisation Testing<br><br>M = Monitor during production | Crushing Resistance | H | 1 per 10,000 m3 | NZS4407:3.10 | < 10% passing 2.36mm sieve at 130kN | IANZ report | Contractor | | A | I | R | dd/mm/yy |
| 1.02 | | Weathering Quality Index | H | 1 per 10,000 m3 | NZS4407:3.11 | AA, AB, AC, BA, BB, CA | IANZ Report | Contractor | | A | I | R | dd/mm/yy |
| 1.03 | | Calfornia Bearing Ratio (CBR) | H | 1 per 10,000 m3 | NZS4402:4.1.3<br>NZS4407:3.15 | Compaceted using NZ Vibe Hammer<br>4-day soaked CBR ≥ 80% | IANZ Report | Contractor | | A | I | R | dd/mm/yy |
| 1.04 | | Quality of Fines, either PI or SE or CI | H | 1 per 1,000 m3 | NZS4407:3.4 - PI<br>NZS4407:3.5 - CI | PI ≤ 5<br>CI ≤ 3 | IANZ Report | Contractor | NZTA M04: 2024<br>AP40 - Class 2<br>PI and CI applies | A | I | R | dd/mm/yy |
| 1.05 | | Broken Faces Content | H | 1 per 1,000 m3 | NZS4407:3.14 | ≥ 70% more than two broken faces on aggregates between 37.5mm and 4.75mm | IANZ Report | Contractor | Waived if aggregate is from crushed hard rock quarry | A | I | R | dd/mm/yy |
| 1.06 | | Particle Size Distribution | H | 1 per 1,000 m3 | NZS4407:3.8.1 | NZTA M04:2024-Class 2<br>Class 2 in Table 12 for PSD<br>Table 13 for shape control | IANZ report | Contractor | | A | I | R | dd/mm/yy |
| 1.07 | Optimisation of Stabilising Agent(s) | Blend Particle Size Distribution | H | 1 per 1,000 m3 | NZS4407:3.8.1 | Check if average of existing (from TPs) and any overlay will meet the ideal FBS / BE grading. | Report using IANZ Reports for AP40 and TP PSDs | Designer | Designer to advise if "average" blend is acceptable. | R | A | I | dd/mm/yy |
| 1.08 | | Indirect Tensile Strength, ITS | H | 1 Optimisation test per aggregate type | NZTA T/19: 2020 | Testing at 1mm/min:<br>BSM Dry ITS: 175 kPa to 400 kPa<br>BSM Soaked ITS: 150 kPa to 350 kPa<br>Testing at 50.8mm/min:<br>BSM Dry ITS: 210 kPa to 480 kPa<br>BSM Soaked ITS: 180 kPa to 450 kPa | IANZ Report | Designer | Designer to advise on binder content(s) Note that the min.design ITS is as per T/19 Notes + 25kPa to ensure that the min.ITS values are obtained in the field | R | A | I | dd/mm/yy |
| 1.09 | | Unconfined Compressive Strength, UCS | H | 1 Optimisation test per aggregate type | CCNZ / NPTG / CETANZ Industry Guide | UCS limits set by the design engineeer | IANZ Report | Designer | | R | A | I | dd/mm/yy |
| 1.10 | | Modified Maximum Dry Density | H | Single Point DD vs WC during optimisation test | NZS 4402.4.1.3 | To determine target density | IANZ Report | Designer | Required before Stabilisation comences | R | A | I | dd/mm/yy |

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| **2.0. BEFORE BITUMEN STABILISATION STARTS** | | | | | | | | | | | | | |
| 2.01 | Setout section | Install offset pegs / check geometric model; record centreline, edge line or mark out stabilisation extents from existing line marking | H | Prior to each section | Survey | Document existing furniture | Electronic survey files | Contractor | | | I | R | dd/mm/yy |
| 2.02 | Pre-hoe, shape and proof roll | Pre-hoe to depth specified and shape as instructed in the site spcific methodology statement and/or IFC drawings and proof roll while compacting | H | Prior to stabilisation per section | Use grader's machine control and inspect shape | | N/A | Stabilising Contractor | Intention is to carry out only minor correction (eg.2% to 3%). Any major shape corrections to be identified prior to site establishment and included in the site specific methodology statement | | A | R | dd/mm/yy |
| 2.03 | | | | | Visual check or Vibratory Roller's response meter | | Stabilising Contractor confirm no obvious soft areas found | Stabiliisng Contractor | Any soft spots identified by visual means or that show up as significantly different to be raised with the ER for further instructions | | A | R | dd/mm/yy |
| 2.04 | Compaction | Plateau Density Test | H | On first day per site and then 1 per 10,000m2 unless material or anvil conditions change | Draft NZTA T/24 (Aug-2024) | To establish suitability of rollers and compaction mode / pattern to achieve FBS-MDD | Field PDT sheet photos into ConQA for ER and Pavement designer to assess. IANZ report when processed | Stabilising Contractor | If FBS-MDD can't be achieved then the PDT-MDD must be approved by the ER | I | A | R | dd/mm/yy |
| 2.05 | | Maximum Dry Density | M | On the first day on a new treatment section, then 1 per 10,000m2 unless the material changes | NZS 4402.4.1.3 | For analysis of DoC<br>To be done at the sampled MC, at hand squeze test MC and 1% above the hand squueze test on site | IANZ Report | Stabilising Contractor | MDD briqutte to be produced on site if travel time to lab > 30 minutes<br>Note that if the Stabilising Contractor notices changes in material then another one point DD at the hand squeeze test moisture content shall be carried out. | I | A | R | dd/mm/yy |
| 2.06 | | Degree of Compaction (DoC) | H | 5 per 1,000m2 | NZS 4407.4.2.1 (DT full stabilising depth) | Average DoC ≥ 95%<br>Minimum DoC ≥ 92% | IANZ Report | Stabilising Contractor | | I | A | R | dd/mm/yy |
| 2.07 | Overlay and check levels | Supply, pre-compact and trim to line and level with NZTA M/4 AP40 | H | Prior to stabilisation per section | Survey | As per NZTA Z/16<br>Minimum: -5mm<br>Maximum: +15mm | Drawing Showing levels and crossfalls | Stabilising Contractor with Main Contractor | This is the last opportunity to check items before adding the FB. Assess items such as (but not limited to):<br>- overlay aggregate quality / consistency<br>- moisture content<br>- any concerns with shape and tie in<br>- etc. | | I | R | dd/mm/yy |
| 2.08 | Production Plan | Plan showing cut lines and sequencing of works | M | Prior to each section | Daily Report | Points covered in NZTA B/5 | Daily Production Plan | Stabilising Contractor | | | I | R | dd/mm/yy |

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| **3.0. BITUMEN STABILISATION OPERATION** | | | | | | | | | | | | | |
| 3.01 | Stabilising Agents | Lime (if applicable - check PI delete otherwise) | M | Per Batch | TNZ M/15 | Conform to Specification | Certificate in contractor's site folder | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.02 | | Cement, GP | M | Per Batch | NZS 3122 | Conform to Specification | Certificate in contractor's site folder | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.03 | | Bitumen (130/150) | M | Per Batch | M/1 | Conform to Specification | Certificate in contractor's site folder | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.04 | Weather conditions | Material behind stabiliser | M | Prior to spreading | Measurement | Material after stabilisation: BE: > 20°C, FB: > 20°C and Ambient: >5 deg.C | Daily work Log | Stabilsing Contractor | | | I | R | dd/mm/yy |
| 3.05 | Weather conditions | Wind | M | Prior to spreading cement or lime | Local weather stations | Wind speed < 25 km/hr | Daily work Log | Stabilsing Contractor | | | I | R | dd/mm/yy |
| 3.06 | Weather conditions | Rain | M | Prior to spreading cement or lime | Local weather stations | No spreading of cement / lime if it is raining or likely to rain before these can be mixed in with the material | Daily work Log | Stabilsing Contractor | | | I | R | dd/mm/yy |
| 3.07 | Spreading of powdered stabilising agent (Cement / Lime) | Place 1m2 canvas or 0.5m x 0.5m trays along spreader run | M | every 400 m2 every 150m for a 2.4m width | Weigh mat or tray | ± 0.5kg/m2 of specified rate | Daily work Log | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.08 | | Compare area spread with weight used for each spreader load | M | On-going measurement by computer/load cells | Measurement each run | ± 2.5% of specified rate | Daily work Log | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.09 | Injection of bituminous stabilising agent (FBS or BE) | Flow meter and operator's display readings | M | Continous monitoring by the operator and the grounds person | Visual display reading | ± 5% of specified rate | N/A | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.10 | | Compare tonnes used (from the stabiiser's PCU) with the measured area | M | Record usage from PCU at the end of each run | Record readings at the end of each run | ± 3% of specified rate | Daily work Log | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.11 | | Compare tonnes used (from delivery docket) with measured area | M | For each bitumen tanker load | Dip bitumen tanker before and after | ± 2.5% of specified rate | Daily work Log | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.12 | Injection & Mixing of Water | In-situ Stabilisation process | M | On-going visual assessment | Visual and hand squeeze test | Mixed material free of pockets or streaks. Overlaps minimum of 150mm | Daily work Log | Stabilising Contractor | | | I | R | dd/mm/yy |
| 3.13 | Depth of stabilisation | Depth of stabilisation | M | Every 200m | Measurement | +15mm / -5mm from specified depth | Daily work Log | Stabilising Contractor | | | I | R | dd/mm/yy |

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| 3.14 | FBS material | Stabilised material strength - ITS | M | 3 soaked ITS + 3 dry ITS per Lot or when the material changes | NZTA T/19N: 2020 | Testing at 1mm/min:<br>BSM Dry ITS: 150 kPa to 400 kPa<br>BSM Soaked ITS: 120 kPa to 350 kPa<br>Testing at 50.8mm/min:<br>BSM Dry ITS: 180 kPa to 450 kPa<br>BSM Soaked ITS: 150 kPa to 420 kPa | IANZ Report | Stabilising Contractor | ITS briquettes to be produced on site if travel time to lab > 30 minutes. | I | A | R | dd/mm/yy |
| 3.15 | Compaction | Plateau Density Test | H | On first day per site and then 1 per 10,000m2 unless material or anvil conditions change | Draft NZTA T/24 (Aug-2024) | To establish suitability of rollers and compaction mode / pattern to achieve FBS-MDD | Field PDT sheet photos into ConQA for ER and Pavement designer to assess.<br>IANZ report when processed | Stabilising Contractor | If FBS-MDD can't be achieved then the PDT-MDD must be approved by the ER | I | A | R | dd/mm/yy |
| 3.16 | | Maximum Dry Density | M | On the first day on a new treatment section, then 1 per 10,000m2 unless the material changes | NZS 4402.4.1.3 | For analysis of DoC<br>To be done at the sampled MC, at hand squeze test MC and 1% above the hand squueze test on site | IANZ Report | Stabilising Contractor | MDD briqutte to be produced on site if travel time to lab > 30 minutes<br>Note that if the Stabilising Contractor notices changes in material then another one point DD at the hand squeeze test moisture content shall be carried out. | I | A | R | dd/mm/yy |
| 3.17 | | Degree of Compaction (DoC) | H | 5 per 1,000m2 | NZS 4407.4.2.1 (DT full stabilising depth) | Average DoC ≥ 98%<br>Minimum DoC ≥ 95% | IANZ Report | Stabilising Contractor | | I | A | R | dd/mm/yy |
| 3.18 | Part of Pre-Seal Inspection (left in here and repeated in the Chipseal as it is part of the Pavement to Surfacing handover) | Clegg Impact Value | H | 5 per 1000m2 | | CIV ≥ 50 | CIV form - ConQA | Stabilising Contractor | | I | A | R | dd/mm/yy |
| 3.19 | | Degree of Saturation, DOS | M | 5 per 1000m2 | NZS 4407.4.2.2 and DOS calculation in NZTA B/5 | aim for DOS ≤ 80% | IANZ report | Contractor | Report only | I | A | R | dd/mm/yy |

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| **4.0. Testing and Sgnoff** | | | | | | | | | | | | | |
| 4.01 | Finished Pavement | Crossfall | H | every 20m | Measurement | ± 0.5% of specified crossfall measure 2m apart | Survey | Stabilising Contractor | | | A | R | dd/mm/yy |
| 4.02 | | Stabilised width | H | 1 every 20m | Measurement | -20mm, +100mm | Survey | Stabilising Contractor | | | A | R | dd/mm/yy |
| 4.03 | | Surface Shape | H | every 20m | Measurement | < 10mm using 3m straight edge | Survey | Stabilising Contractor | Only required if the visual inspection appears unsatisfactory | | A | R | dd/mm/yy |
| 4.04 | | Surface Finish | H | Per Lot | Visual | 1. Larger aggregate held in pace with a matrix of smaller aggregate 2. Smaller aggregate held in place by fine material 3. matrix does not displace under normal trafficking and/or sweeping | Survey | Stabilising Contractor | ER to be present at pre-seal inspection | | A | R | dd/mm/yy |
| 4.05 | | Roughness | H | Before Sealing | TNZ TM 7003 v1 | 100m rolling average ≤ 75 counts/km | Test Certificate | Contractor | | | A | R | |
| 4.06 | Pavement Layer Signoff | Assessment of all test results for conformity | H | Each Lot | Site Inspection | Reporting of any non-conforming results to Designer via NCR | NCR | Engineers Representative | | | | | dd/mm/yy |

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