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| **CLIENT:** | | Watercare Services Limited | | **INSPECTION AND TEST PLAN FOR:** | | | | **ITP No:** | **GAJV-ITP-00283\_3.0** |
| **CONTRACT No. #** | | 6661 | | **JOB/ITP TITLE:** | **PROJECT WIDE – ITP – SITE REINSTATEMENT** |
| **CONTRACT:** | | Central Interceptor | | **WORK DESCRIPTION: PROJECT WIDE – ITP – SITE REINSTATEMENT CONTRACTOR NAME: GAJV**  **SUBCONTRACTOR/S NAME: NA** | | | | **PACKAGE No:** |  |
| **WORKPLACE NAME / ADDRESS:** | | Dundale and Miranda | | **CHAINAGEE (if any):** | **Please specify N/A if none** |
| **DATE:** | | **15/03/2024** | | **WORK AREA:** | **Dundale and Miranda** |
| **ENGINEERS NAME:** | | Tiaki Winder | | **RELATD CEP No:** | **GAJV-CEP-00403\_1.0** |
|  | |  | | **SWMS No (if any):** | **GAJV-SWMS-00439\_1.0** |
| **The purpose of this Inspection and Test Plan is for identifying and tracking stages of completion and product traceability during all phases of construction. ISSUED FOR CONSTRUCTION**  **Packages:** - Discrete components or work areas.  **Inspection and Test Plan:** A sequential work method statement capturing quality related requirements that provide evidence of conformance to specifications.  **Inspection Check Sheet:** A document detailing specific criteria to be checked and recorded, often developed to meet testing requirements of standards and / or technical specifications.  **Punch List / Defects List:** A list of minor rectification type tasks which need to complete to satisfy the term of the contract.  **Surveillance:** Ongoing monitoring  **Hold Point:** A notice of the event must be provided and shall not proceed with the work without the client or its representative being present unless authority to proceed has been provided by the client in writing. Signature required  **Witness Poin**t: A notice of the event must be provided. If the client representative is not present at the designated time and place, work may proceed. | | | | | | | | | |
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| **LEGEND:** | W = WITNESS POINT | | H = HOLD POINT | | S= SURVEILLANCE | GAJV = GHELLA ABERGELDIE JOINT VENTURE | S/C = SUBCONTRACTOR | |  |

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| **ACTIVITY No. #** | **DESCRIPTION** | **RESPONSIBILITY** | **REQUIREMENTS / REFERENCE** | **CONFORMANCE CRITERIA** | **METHOD** | **FREQUENCY/PROCESS HELD** | **HOLD/WITNESS REQUIREMENTS** | | **RECORDS OR CHECKLISTS** |
| **TYPE** | **ATTENDANCE REQUIRED** |
| **1.0 Preliminaries** | | | | | | | | | |
| 1.1 | Check CEP and SWMS are in place and signed off by personnel | GAJV | N/A | * GAJV procedures. | Document Review | Each Lot/ Construction start | **HP** | GAJV | Copy of SWMS and CEP on site and signed by site personal. |
| 1.2 | Check Drawings are IFC and current | GAJV | N/A | * IFC Drawings and the current version used. * Site restoration plans to be approved by Council prior to works | Visual Inspection | Before project execution | **HP** | GAJV | Copy of IFC drawings onsite DWG register |
| 1.3 | Legislative requirements – Work Safe notifiable works documents submitted and verified | GAJV | WSL CS-C01P-4.1P WSL  General Civil Construction Standards  C2.7 | * Documents (Health and safety at Work Act 2015) as per WorkSafe requirements cited, reviewed, and retained on site. Copy of   notification supplied to Watercare. | When required | Prior to construction | **WP** | GAJV WSL | Notification to work safe - if applicable |
| 1.4 | Service Location | GAJV | GC C Standard Version 1 | * Clearly identify existing services in proximity of works. | Document review Site mark out | Before works commencement &  During Construction | **WP** | GAJV | Survey Request and As-built drawing of services |
| **2.0 Materials (approval)** | | | | | | | | | |
| 2.1 | Soil for plantation backfill | GAJV | IFC Drawings | * Clearly identify soil type before placement. | Docket review | Prior to construction | **WP** | GAJV | Delivery Dockets |
| 2.2 | Mulch (for playground – Miranda site) | GAJV | IFC Drawings | * Clearly identify mulch type before placement. | Docket review | Prior to construction | **WP** | GAJV | Delivery Dockets |
| 2.3 | Tree Reinstatement | GAJV | CEP | * Specific tree to be reinstated. * Native trees to be eco sourced. | Delivery docket | Prior to placement | **WP** | GAJV | Delivery Dockets |
| **3.0 Site Excavation & Temporary Works Removal** | | | | | | | | | |

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| **TYPE** | **ATTENDANCE**  **REQUIRED** |
| 3.1 | Survey Setout of project boundaries:   * Pothole location for tree reinstatement * Site reinstatement boundary | GAJV | Work Methods Statement  CS-C01P General Requirements 29.3P | * Surveyed line and level in accordance with drawings | Survey Record | Prior to construction | **WP** | GAJV | Photos of Setout, Survey report |
| 3.2 | Excavation depth to be determined | GAJV | Work Methods Statement | * Geologist to determine satisfactory minimum soil depth required for future plant growth | Geologist Report | Prior to construction | **WP** | GAJV WSL | Survey As Built |
| 3.3 | Spoil removal | GAJV | Work Methods Statement | * Any material removed from site to be sent to appropriate disposal destination as determined by spoil removal team | Spoil Report | Prior to construction | **WP** | GAJV | Spoil removal dockets |
| 3.4 | Temporary Works Removal – (Flood Walls, Capping Beams, SBP etc.) | GAJV | IFC Drawings | * Temporary Works to be removed to 1.5m below Finished Ground Level | Survey Record | Final As Built | **WP** | GAJV | Survey As Built |
| **4.0 Tree Plantation & Reinstatement** | | | | | | | | | |
| 4.1 | SITE PREPARATION:  Site Engineer and subcontractor to confirm site ready for reinstatement | GAJV | Work Methods Statement IFC Drawings | * Area cleared in accordance with drawings. | Visual Inspection | Prior to construction | **WP** | GAJV | ITP signed |
| 4.2 | POTHOLE:  - Ensure that potholes are the correct positioned in spacing, depth and diameter prior to reinstating tree | GAJV | Work Methods Statement IFC Drawings | * Hole depth, diameter and spacing dug out as specified | Visual Inspection | Prior to construction | **WP** | GAJV | ITP signed, photographs of the potholes |
| 4.3 | SUREPAVE INSTALLATION | GAJV | IFC Drawings  GAJV-RPT-00201 Section 6.3.1 | * Subbase testing to achieve a minimum CBR of 3% * Installation as per Manufacturers Guidelines | Visual Inspection DCP/Scala Penetrometer | During Installation | **WP** | GAJV | Photos Test results |
| 4.4 | Vehicle Crossings, Driveways, Footpaths, Kerb & Channel | GAJV | IFC Drawings CEP  ATCOP | * Auckland Transport Code of Practice * Driveways will need to have a vehicle crossing permit and be inspected by council. | Document review | Prior construction | **WP** | GAJV WSL | Dockets  Inspection check sheet |
| 4.5 | Air duct/vent stack installation | GAJV | IFC Drawings CEP | * Ensure minimum vertical and horizontal spacing as per IFC drawings | Delivery dockets | Prior construction | **WP** | GAJV | Visual inspection, material certs and photographs |
| 4.6 | Road restoration | GAJV | IFC Drawings ATCOP  WSL-LETTER-001346 | * Roads will be restored to Auckland Transport requirements. * Paving reinstatement to match existing surfaces. * Over 10m2 to be laid by paver layer machine. * Backfill test to min 95% MDD * Contractor to organise a joint inspection of the relevant works with the Engineer | Nuclear Densometer | During construction | **HP** | GAJV WSL | Delivery Dockets  IANZ NDM Lab Test Results |
| 4.7 | Topsoil specifications | GAJV | IFC Drawings  GAJV-RPT-00201 Section 7.3.3  ATCOP Section 14.4.2 | * The topsoil shall be screened to a 12mm maximum particle size and shall not contain any foreign matter. | Lab test review | Prior Installation | **WP** | GAJV WSL | Delivery Docket, topsoil lab results, photos |

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| **TYPE** | **ATTENDANCE REQUIRED** |
|  |  |  |  | * Topsoil should have an acidity range of pH   5.5 to 7.5 and be suitable for the plant species being used. |  |  |  |  |  |
| 4.8 | Bollard installation (If applicable) | GAJV | IFC Drawings  Auckland Parkland Design Guideline | * As per IFC drawings * Bollards should be spaced at gaps of a maximum 1.5m | Visual / measure on site | During Installation | **WP** | GAJV | Delivery Docket, Photos |
| 4.9 | Planter installation (If applicable) | GAJV | IFC Drawings | * As per IFC drawings | Visual Inspection | Post Construction | **WP** | GAJV | Photos |
| 4.10 | Rain garden and/or swale installation (If applicable) | GAJV | IFC Drawings | * As per IFC drawings | Visual Inspection | Post Construction | **WP** | GAJV | Photos |
| **5.0 Post Construction:** | | | | | | | | | |
| 5.1 | Final As built | GAJV | IFC Drawings | * Survey as built | Survey | Reinstated area | **WP** | WSL | As built |

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| **ITEM** | **QA DOCUMENT CHECKLIST** | **TICK APPROPRIATE**  **BOX** | **COMMENTS** | **ITEM** | **QA DOCUMENT CHECKLIST** | **TICK APPROPRIATE**  **BOX** | **COMMENTS** |
| 1 | Completed Inspection and Test Plan | ☐ |  | 12 | Check sheets Completed and signed | ☐ |  |
| 2 | Material Delivery Dockets (if applicable) | ☐ |  | 13 | Independent Reviewer Report | ☐ |  |
| 3 | Incoming Material Inspection Checklist | ☐ |  | 14 | Operation and Maintenance Manuals (if applicable) | ☐ |  |
| 4 | All Aconex Mails Closed-Out - Related to Lots | ☐ |  | 15 | Warranties / Guarantees (if applicable) | ☐ |  |
| 5 | Conformance Certificates (if applicable) | ☐ |  | 16 | Producer Statements | ☐ |  |
| 6 | Test Reports | ☐ |  | 17 | Compliance Statement | ☐ |  |
| 7 | Engineers Red-Line mark ups | ☐ |  | 18 | Relevant RFIs - | ☐ |  |
| 8 | As Built Survey | ☐ |  | 19 | Instructions - | ☐ |  |
| 9 | Photos | ☐ |  | 20 | Factory Acceptance Test (if applicable) | ☐ |  |
| 10 | Geotechnical Site Inspection Report (if applicable) | ☐ |  | 21 | Other - | ☐ |  |
| 11 | QA Engineer Site Inspection Report | ☐ |  | 22 | Other - | ☐ |  |

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| **CONFORMANCE / VERIFICATION STATEMENT** | | | | | | |
| This closed lot conforms in all respects with the standards and requirements specified in the Contract Documents. The lot verification records are complete, and any non-conformances have been closed out in accordance with the Projects requirements. | | | | | | |
| **Construction Lot checked by the Senior Project Engineer responsible for the works** | **PRINT NAME** | Click or tap here to enter text. | **SIGNATURE** |  | **DATE** | Click or tap to enter a date. |
| **Construction Lot verified and closed by Quality Management Representative** | **PRINT NAME** | Click or tap here to enter text. | **SIGNATURE** |  | **DATE** | Click or tap to enter a date. |
| **Independent Verification Review (if required) by:** | **PRINT NAME** | Click or tap here to enter text. | **SIGNATURE** |  | **DATE** | Click or tap to enter a date. |