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| **Civil - WTG Foundations** |
| **Inspection and Test Plan - ITP** |

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| **SECTION 1 - GENERAL** | | | | | |
| **Client:** | **Asset** | | | **ITP Template No.:** | **Revision:** |
|  | Civil Areas | | | ZENT-ITP-7026 | 0 |
| **Project Name:** | **Area** | | | **Prepared By:** | **Prepared Date:** |
|  | Specific Civil Area | | | Elwyn Stannard | 24/11/2023 |
| **Project Number:** | **Discipline** | **Component** | **Location** | **Approved By:** | **Approved Date:** |
|  | Civil | ITP - Civil - WTG Foundations |  |  |  |

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| **SECTION 2 - CLOSE OUT SIGNATURE (ZENVIRON ONLY)** | | | |
| **Name:** | **Position:** | **Signature:** | **Data:** |
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| **Comments:** | | | |
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| **SECTION 3 - LEGEND** | |
| **Term** | **Description** |
| **REVIEW** | An Activity which is verified by examination of documentary evidence that inspection/tests have been satisfactorily conducted |
| **WITNESS** | Activity is to be witnessed by Zenviron | Advance notification mandatory | Activity can proceed once the minimum notification period has elapsed |
| **HOLD POINT** | Activity is to be witnessed by Zenviron | Advance notification mandatory | Hold point can only be waivered formally in writing |

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| **SECTION 4 - PRELIMINARY** | | | | | | | | | | |
| **ITEM** | **ACTIVITY/ TASK DESCRIPTION** | **INSPECTION FREQUENCY** | **REQUIREMENT/ STANDARD / SPECIFICATION** | **ACCEPTANCE CRITERIA** | **VERIFYING DOCUMENT (RECORDS/EVIDENCE)** | **SUPERVISION TYPE** | **RECEIVED AND ANALYSED BY: ZENVIRON** | | | |
| **NAME** | **SIGNED** | **DATE** | **COMMENTS** |
| 4.1 | Design drawings, project specifications. |  |  | Documents controlled through document  management system. | N/A | REVIEW |  |  |  |  |
| 4.2 | Survey and Setout. |  |  | Control point survey by registered surveyor, visual inspection of control point/s.   * Survey equipment spot checked. * No disturbance to survey marks. | N/A | WITNESS |  |  |  |  |

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| **SECTION 5 - MATERIAL APPROVALS** | | | | | | | | | | |
| **ITEM** | **ACTIVITY/ TASK DESCRIPTION** | **INSPECTION FREQUENCY** | **REQUIREMENT/ STANDARD / SPECIFICATION** | **ACCEPTANCE CRITERIA** | **VERIFYING DOCUMENT (RECORDS/EVIDENCE)** | **SUPERVISION TYPE** | **RECEIVED AND ANALYSED BY: ZENVIRON** | | | |
| **NAME** | **SIGNED** | **DATE** | **COMMENTS** |
| 5.1 | Concrete Mix Design(s) |  |  | Design Engineer Approval | Concrete Supplier Mix Designs  Concrete Test/Trial Data | HOLD POINT |  |  |  |  |
| 5.2 | Steel Reinforcement |  |  | Reinforcement Supplier Accreditation | Supplier ACRS Certificate | HOLD POINT |  |  |  |  |
| 5.3 | Formwork Approval |  |  | AS3610  Project Engineer Review | Formwork Compliance Certificate | REVIEW |  |  |  |  |

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| 5.4 | Concrete Curing Agent |  |  | AS3799 Compliance Certificate | Manufacturer Compliance Certificates | REVIEW |  |  |  |  |

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| **SECTION 6 - WTG FOUNDATION PRE-POUR** | | | | | | | | | | |
| **ITEM** | **ACTIVITY/ TASK DESCRIPTION** | **INSPECTION FREQUENCY** | **REQUIREMENT/ STANDARD / SPECIFICATION** | **ACCEPTANCE CRITERIA** | **VERIFYING DOCUMENT (RECORDS/EVIDENCE)** | **SUPERVISION TYPE** | **RECEIVED AND ANALYSED BY: ZENVIRON** | | | |
| **NAME** | **SIGNED** | **DATE** | **COMMENTS** |
| 6.1 | Foundation Blinding |  |  | As per ZX115-REP-0204 Section 1.4.1 &  1.6.2 and ZX115-DWG-1401 Concrete Notes | ZX115-ITR-7102  Concrete Pour Record Concrete Dockets | HOLD POINT |  |  |  |  |
| 6.2 | Survey Setout |  |  | Survey Set Out by Licensed Surveyor  Dimensional Check | Survey Report | REVIEW |  |  |  |  |
| 6.3 | Install Proprietary Formwork (Footing Parimeter) |  |  | AS3610 & AS3600  Formwork shall be aligned to a tolerance of mm.  Approved release agent applied to form. | ZX115-ITR-7101  Concrete Pre-Pour Inspection Checklist | HOLD POINT |  |  |  |  |
| 6.4 | Install Hold Down Bolts and Assembly |  |  | Bolts to be within ±3mm in any direction | ZX115-ITP-7111 WTG  Survey and Setout Report  SIF for vertical assembly of 2- and 4-segment anchor cage 0061-5846  V06 | HOLD POINT |  |  |  |  |
| 6.5 | Install Reinforcement |  |  | Design Engineer Inspection Report | ZX115-ITR-7101  Concrete Pre-Pour Inspection Checklist | HOLD POINT |  |  |  |  |
| 6.6 | Install Proprietary Formwork (Pedestal) |  |  | AS3610 & AS3600  Formwork shall be aligned to a tolerance of 20mm.  Release agent applied to form. | ZX115-ITR-7101  Concrete Pre-Pour Inspection Checklist | HOLD POINT |  |  |  |  |
| 6.7 | Install Embedded / Cast-in Items |  |  | Installed as per IFC drawings | ZX115-ITR-7101  Concrete Pre-Pour Inspection Checklist | WITNESS |  |  |  |  |

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| **SECTION 7 - WTG FOUNDATION PLACEMENT (CONCRETE)** | | | | | | | | | | |
| **ITEM** | **ACTIVITY/ TASK DESCRIPTION** | **INSPECTION FREQUENCY** | **REQUIREMENT/ STANDARD / SPECIFICATION** | **ACCEPTANCE CRITERIA** | **VERIFYING DOCUMENT (RECORDS/EVIDENCE)** | **SUPERVISION TYPE** | **RECEIVED AND ANALYSED BY: ZENVIRON** | | | |
| **NAME** | **SIGNED** | **DATE** | **COMMENTS** |
| 7.1 | Place Concrete |  |  | As per ZX115-REP-0204 Section 1.5.3 and ZX115-DWG-1401 Concrete Notes | ZX115-ITR-7102  Concrete Pour Record Concrete Dockets | HOLD POINT |  |  |  |  |
| 7.2 | Concrete Testing |  |  | As per ZX115-REP-0204 Section 1.6.2  Samples to be taken on first truck and every 50m3 | ZX115-ITR-7102  Concrete Pour Record NATA Test Records | WITNESS |  |  |  |  |
| 7.3 | Cure and Protect Concrete |  |  | As per ZX115-REP-0204 Section 1.9.2 An approved hydrocarbon based curing  agent to be applied | ZX115-ITR-7104  Concrete Post-Pour Inspection Checklist | REVIEW |  |  |  |  |
| 7.4 | Strip Formwork & Patch |  |  | As per ZX115-REP-0204 Section 1.13 | ZX115-ITR-7104  Concrete Post-Pour Inspection Checklist | HOLD POINT |  |  |  |  |

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| **SECTION 8 - COMPLETION AND HANDOVER** | | | | | | | | | | |
| **ITEM** | **ACTIVITY/ TASK DESCRIPTION** | **INSPECTION FREQUENCY** | **REQUIREMENT/ STANDARD / SPECIFICATION** | **ACCEPTANCE CRITERIA** | **VERIFYING DOCUMENT (RECORDS/EVIDENCE)** | **SUPERVISION TYPE** | **RECEIVED AND ANALYSED BY: ZENVIRON** | | | |
| **NAME** | **SIGNED** | **DATE** | **COMMENTS** |
| 8.1 | Redline markup of Construction Drawings |  |  | In line with ZX118-REP-0201 Earthworks, Roads and Drainage Specification and BMS- WIN-1024 - Document Red-Line Markup | Redline Markup in Master Drawing Folder | REVIEW |  |  |  |  |

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| 8.2 | Generate Punch List |  |  | Generate specific area/scope Punch List and transfer the open items to the Punch List  Master Register | BMS-TMP-0044 Punch  List record | REVIEW |  |  |  |  |