| **Item**  **No.** | **Task/Activity Description** | **Inspection/Test** | | | | | | | | | | **Type** | **Responsibility** | **Checked/Verified by (initial/Date):** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency** | | | **Acceptance Criteria** | | | | **Reference Documents** | **Inspection/ Test Method** | **Record of conformity** | **TfNSW** | **Fulton Hogan** | **PV** | **Date** |
| **1** | **Preliminary** | | | | | | | | | | | | | | | | |
| 2 | Verify Embankment Foundation treatment has been completed and is conforming | Per Lot | Refer to Embankment Foundation and Embankment Treatment LOTs | | | | | | R44.3 |  | Foundation Verification Checklist/s | IP | Site Engineer |  |  |  |  |
| 3 | Set out the works | Each Section | Establish Pegs (or equivalent) to identify the extend of filling | | | | | | Design DWGs  Survey Management Plan |  | Verification Checklist | IP | Surveyor |  |  |  |  |
| 4 | Verify conformance of general fill material | As required | * Material free from tree stumps, roots & refuse, moisture content deems acceptable | | | | | | R44.5.2.1  R44/L.2 | Visual | Verification Checklist | IP | Site Engineer |  |  |  |  |
| Max. Layer Thickness (mm) | | | Min. Qty Rock (Vol) | Max. Rock Size (mm) | % Passing AS37.5mm Sieve |
| 300 | | | Not specified | 200 | > 60% |
| 500 | | | 25% > 200mm | 300 | > 60% |
| 5 per 25000m3 | Imported General Fill Material:   * CBR(10 Day) >2 * PI<30 | | | | | | T117  T109 |
| 5 | Placing General Fill in 500mm Layers | Per Source | Undertake a trial for each material source to prove construction methodology.   * Provide Proposed Method prior to undertaking trial * Provide compaction results from trial for HP Release * Only applicable to general fill at least 600mm below bottom of UZF | | | | | | RFI-073 | T166 | Hold Point | HP | Site Engineer | HP |  |  |  |
| **6** | **Construction** | | | | | | | | | | | | | | | | |
| 7 | Place, spread fill material (parallel to the grade), compact and test to specified densities | Per Lot, Q6/L3.1 | * 98% Std compaction (90% for earth mounds or spoil) with 60 - 90% of OMC * Minimum layer thickness after compaction ≥ 100mm * Maximum layer thickness after compaction <= 300mm unless otherwise approved * Ensure insitu sampling and testing for compaction conformity is undertaken in accordance with TfNSW Q6 Annexure L | | | | | | R44.5.1.3  R44.5.2.2  R44.7.2  R44.7.3  R44.7.4  R44/A5 | T166 | Test Report | TP | Site Engineer |  |  |  |  |
| 8 | For hill side embankment foundation, terrace 1m wide of the hill side of embankment and ensure its free draining | Per Lot | Minimum Step Depth | | | | Slope | | R44.3.3  Fig R44.4 |  | Verification Checklist | IP | Site Engineer |  |  |  |  |
| 600mm | | | | > 4H:1V | |
| 300mm | | | | < 4H:1V | |
| Terraces not required on slopes < 10H:1V | | | | | |
| 9 | Conduct Deflection Testing – Proof rolling Method within 1.5m underside of SMZ | Per Lot | | * Must not exhibit deformation, yielding and/or show signs of distress or instability. * All embankment layers and other surface within 1.5m of underside of SMZ * With refer to RFI 436: Clause 3, Note B on T198 states that other equipment may be used,  1. Benkelman Beam truck (as per T160) 2. Loaded bogie truck 3. 12M Grader (or larger 4. 12t Roller (or larger) | | | | | R44.7.6.1 | T198 | Witness Point | WP | Site Engineer |  | WP |  |  |

**Legend:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HP** | Hold Point | Work shall not proceed past the HP until released by the Project Verifier | **IP** | Inspection point | Formal Inspection to be done and recorded |
| **HP\*** | FH Hold Point | Work shall not proceed past the HP\* until released by Fulton Hogan | **TP** | Test Point | Product compliance test to be undertaken and recorded/reported |
| **WP** | Witness Point | An inspection which must be witnessed by the Project Verifier | **SU** | Survey conformance point | A qualified surveyor to check product/section/structure and report |
| **AP** | Approval Point | Written or verbal approval given by the Project Verifier | **SC** | Survey Check | |

|  |  |
| --- | --- |
| **Notes** |  |