| **INSPECTION AND TEST CHECKLIST FOR:**  **Concrete Paving (R54)** |
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| Activity No.# | Description | Requirements / Reference | | Acceptance Criteria | | | | | | | Comments / Attachments / Records | | | | Engineer Signoff | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | **Safety Review** | Project Safety Plan | | * All site personnel inducted (includes environment and cultural) * Required Safe Work Method Statements completed and signed * Subcontractor’s safety plan/procedure approved | | | | | | |  | | | |  | |
| 2 | **Environment** | Project Environment Plan  G36 Cl 3.1  G38, G40 | | * Installation of soil erosion and sedimentation controls completed in accordance with ESC Plan and EMP, as well as Specification TfNSW G38 * All work undertaken under this Specification must be approved by the Environmental Site Representative (refer TfNSW G36) and comply with Abergeldie’s CEMS and CEMP | | | | | | |  | | | |  | |
| 3 | **Material** | R54 Cl 2  Test Method TfNSW T109, TfNSW 3051, R53 | | * Select Fill Type U must consist of a granular material with a particle size grading of 100% passing the 26.5 mm sieve and a Plasticity Index, determined by Test Method TfNSW of between 2 and 12 * Class 2 DGB must comply with Specification TfNSW 3051 * Supply of concrete and steel reinforcement must comply with Specification TfNSW R53 | | | | | | |  | | | |  | |
| 4 | **Unsuitable Material** | R54 Cl3.2  R44 Cl3.1  TfNSW R44 | | * *Have the Geotechnical Engineer undertake tests and inspections of all foundations and verify that they are suitable for General Concrete Paving, or otherwise recommend a foundation treatment in accordance with TfNSW R44 Cl 3.1* * Notify the Principal of any area of the foundation which may contain material that is unsuitable to support the proposed pavement. * If the Principal agrees that the material is unsuitable, or deem any areas of the foundation to contain unsuitable material, the Principal may direct that removal and replacement of this unsuitable material or some other foundation treatment in accordance within TfNSW R44. * The Hold Point in TfNSW R44 regarding unsuitable material applies. * **HOLD POINT: Removal of unsuitable material (if applicable)** | | | | | | |  | | | |  | |
| 5 | **Foundation Levels** | R54 Cl3.5 | | * Construct the top of foundation to the design surface levels, with a tolerance of +5 mm and -10 mm * The finish surface must not deviate from the bottom of a 3 m straight edge laid in any direction, by more than 10 mm, except at grade changes | | | | | | | * Survey report(s) | | | |  | |
| 6 | **Concrete Mix Design** | R53 Cl 2.4.3 | | * Concrete manufactured and supplied in accordance to R53 and AS 1379   **HOLD POINT**  Provide either:   * The documents specified in R53 Cl 2.4.3 items (a) and (b) OR * Details of mix(es) selected from the TfNSW Register of Concrete Mixes, together with a statement certifying that the mix conforms to this Specification and is suitable for its intended use. | | | | | | |  | | | |  | |
| 7 | **Placing of Concrete** | R54 Cl 4.3  R53 Cl 3.3.1 | | Comply with Clause 3.3.1 of TfNSW R53  The Hold Point in TfNSW R53 for placing of concrete applies.  The Principal may inspect the completed reinforcement and formwork prior to authorising the release of the Hold Point.  Before commencing placement of concrete, remove all dirt, and other foreign matter from the forms  **HOLD POINT: Pre-pour inspection of concrete.**  Notify the Principal of:  expected completion time of fixing of the formwork and reinforcement (if applicable) AND   * expected commencement date and time of placement of concrete | | | | | | |  | | | |  | |
| 8 | **Proposed joint layout and reinforcement details** | R54 Cl 4.4  R54 Cl 4.4.2 | | * Construct transverse joints at right angles ±6° to the longitudinal edge of the paving slab, otherwise the slab will be treated as odd shaped. Where possible, avoid creating odd shaped and mismatched slabs. * **HOLD POINT: Steel reinforcement fixing and concrete placing** * If joint layout is not shown on the Drawings, submit a drawing showing the proposed joint layout and reinforcement details. | | | | | | |  | | | |  | |
| 9 | **Surface Finish** | R54 CL 5.1  R54 Table R54.3  R54 Cl 5.3 | | * *Unless shown otherwise on the Drawings provide* on the top surface of concrete paving (except patterned concrete paving) the surface finish specified in Table R54.3. The finished paving surface must be uniform in colour and appearance. * The finished paving surface must be uniform in colour and appearance. * All edges, except for those abutting other paving or structures, must be neatly rounded to a radius of 10 mm. Edges abutting other paving or structures must be neatly rounded to 5 mm radius.      * Construct the finished surface of the concrete paving to the design surface levels, with a tolerance of +10mm and -5mm * The finished surface must not deviate from the bottom of a 3m straight edge laid in any direction, by not more than 5mm, except at grade changes. Where the concrete paving abuts an adjacent structure, any vertical step across the joint must not exceed 5mm unless shown otherwise on the Drawings | | | | | | | * Survey report(s) | | | |  | |
| 10 | **Patterned Concrete Paving Details** | R54 Cl 5.2.1 | | * **HOLD POINT: Placing of patterned concrete paving** * Provide details of pattern, colour, class of finish and experience of personnel in producing patterns on concrete paving, at least 5 working days prior. The Principal may require a sample panel to be prepared and submitted | | | | | | |  | | | |  | |
| 11 | **Tactile Indicators** | R54 Cl 6.1 | | * Tactile indicators must conform to AS/NZS 1428.4.1 and must be stain, slip, impact and UV resistant * Performance levels (refer AS 3958.1 for definition) is specified as “Commercial”. Comply with the installation guidelines in AS 3958.1 Clause 3.3.1.2 (Exterior floors – General applications, using cement-based adhesive or modified mortar) where applicable. * **HOLD POINT: Construction of paving with tactile indicators** * Submit details of proposed tactile indicator tiles, associated materials (such as adhesive), and installation method. | | | | | | |  | | | |  | |
| 12 | **Close out of Lot** | R54  R53 | | * Provide all required documentation for close out of the Lot | | | | | | | - Concrete delivery docket(s)  - Concrete test report(s) | | | |  | |
| **REVIEW BY PROJECT ENGINEER** | | | | | | | | | | | | | | | | |
| Any non-conformances? | | | YES | | NO | | Nos: | | | Closed Out | | | YES | | | NO |
| Other QA details – NCRs, CARs, Identified Records etc | | |  | | | | | | | | | | | | | |
| All work has been satisfactorily completed | | | | | | YES | | | NO | | | | | | | |
| Name | | | | | | | | Signature | | | | Date | |  | | |