| **INSPECTION AND TEST CHECKLIST FOR:**  **Kerb and Gutters (R15)** |
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| Activity No.# | Description | Requirements / Reference | | Acceptance Criteria | | | | | | | Comments / Attachments / Records | | | | Engineer Signoff | |
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| 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 | **Concrete Mix Design** | R53 2.4.3  AS 1379 | | * **HOLD POINT:** Concrete mix design to be submitted to Client for approval | | | | | | |  | | | |  | |
| 4 | **Set out the works** | Design model | | * Establish Pegs (or equivalent) to identify location, length, and levels as per design model | | | | | | |  | | | |  | |
| 5 | **Bedding layer of K&C** | R15/L  Conformity Tolerances | | Do not undercut batters of cuttings for construction of kerbs or gutters  Compact K&C foundation and test bedding layer every 10m (not required if no-fines concrete underlying).  Clause 4.1: Unless otherwise stated on design, surface irregularities must be ≤10mm with a 3m straight edge. Level at any point shall be within +0/-10mm of design level. | | | | | | | * Compaction test report * Survey report | | | |  | |
| 6 | **Weather conditions** | R53 Cl 3.3.2 | | 5°C < Temperature < 35°C (ambient) and rain is not forecast  Have black plastic on hand in the event that unexpected wet weather poses a risk to the new works | | | | | | |  | | | |  | |
| 7 | **Concrete placement** | R15 Cl 3.7  R53 Cl 3.3.1 | | Do not place concrete in the Works if its temperature at the point of discharge from transport vehicles is less than 10ºC or more than 32ºC.  Supply, place, compact, finish and cure concrete K&C in conformity with TfNSW R53.  K&C can be constructed by either by manual (fixed form) or by machine-placing (extrusion or slipforming)  Do not place by extrusion K&C which are located alongside, and tied to, a concrete base.  Profiles & dimensions as nominated in Design Documentation  Concrete has been consistently poured and adequately compacted   * **HOLD POINT:** Notify Principal on expected completion time of fixing of the formwork and reinforcement and expected commencement date and time for placement at least 48hrs prior to intended commencement of concrete placement | | | | | | |  | | | |  | |
| 8 | **Placing and Compaction** | R53 Cl 3.3.4 | | Place concrete in such a manner that limit segregation, limit premature stiffening, produce dense homogeneous product which is monolithic between joints and edges, provide the specific thickness and surface finish.   * *When placing concrete in deep formwork, do not permit concrete to drop freely down the inside of formwork more than 1.2 meters and ensure that the concrete does not segregate due to aggregate hitting reinforcement.* | | | | | | |  | | | |  | |
| 9 | **Test concrete for strength and slump** | R53/E  R53/L  AS1379.6.3.3 | | Per day, take one slump on each of the first three batches, and then one slump per every four batches  Sampling testing and assessment for concrete compressive strength in accordance with AS 1379 Appendix B. | | | | | | | * Concrete delivery dockets * Concrete test results | | | |  | |
| 10 | **Joints** | R15 CL 3.8,  *R15 Annexure A* | | Provide joints of the type and at the locations as shown on the drawings.  Provide expansion joints in kerbs and gutters, at all locations where kerbs and  gutters abut structures such as drainage pits and retaining walls.  Where the K&C is placed on top of a concrete base, align each transverse joint in the kerb exactly (i.e. coincident) with the joint in the underlying base.  Where the K&C is placed alongside a concrete base, locate the transverse joint in the kerb such that it meets the transverse joint in the base at the common longitudinal joint.  Untied transverse joints in the concrete base must continue across into the K&C alongside in the same joint type.  Tied transverse joints in the concrete base do not need to continue across into the K&C.  For longitudinal joints with rigid pavement base the longitudinal joint must be continuous and not deviate from 3m straight edge by +20mm for curvature.  Align the traverse joints in the K&C at right angles to the longitudinal alignment of the K&C.  Align joints at an angle of 90° ± 6° to the line of the kerb  Seal joints with sealant conforming to R83 (TfNSW 3204)   * *For all longitudinal joints with existing pavements, saw cut the existing pavement to make square edges and avoid damage to the adjacent pavement that will remain in place. Re-cut the pavement if the edge becomes damaged* | | | | | | | Untied transverse joints in the concrete base are contraction joints, while tied transverse joints in the concrete base are construction joints. | | | |  | |
| 11 | **Conformity - Check final alignment and levels** | R15 CL 4  AS 2876.9 | | All finished surfaces must conform to the lines, levels, grades, thicknesses and cross sections shown on the Drawings within the specified tolerances.  Alignment of the kerb is within+/-20mm of design.   * The level of the constructed channel lip must not vary by more than 0 mm above or 10 mm below the adjoining pavement surface at any point. | | | | | | | * Survey report | | | |  | |
| **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 | |  | | |