

# Inspection and Test Plan – In situ Kerb and Channel

**Project no.** CC0374      **Project name** Pakenham Road Upgrade      **Date** 18/10/2023      **Approved by** Damian Hagebols  
**ITP no.** 1630-P200-SYM-QAC-ITP-0022      **Revision date** 18/10/2023      **Plant and equipment used** \_\_\_\_\_  
**Lot no.** \_\_\_\_\_      **Location (chainages, detailed description or marked up plan)** \_\_\_\_\_

Attach Dockets, Certificates and QA Documents to ITP

					Verification of acceptance by					Remarks/record (eg. Test frequency reports, certificates, checklist etc)
					Symal			Superintendent		
Item no.	Activity	Ref docs	Acceptance criteria	Freq	Key	Resp	Initial/ date	Key	Sign/ date	
1.0 Pre-start activities										
1.1	Supply of Premixed Concrete for Kerb Extrusion	DoT Clause 703.05 (b)  703.11	<ul style="list-style-type: none"><li>Concrete is minimum or equal 320kg cementitious material or geopolymer binder per m3. No slump or compressive strength requirements.</li><li>Where kerb and channel is placed and compacted with internal vibration between previously placed formwork: Concrete is N32 Portland or 32 MPa geopolymer concrete standard strength grade.</li></ul>	Prior to start of works	R	SE				Mix Design
1.2	Hot or Cold Weather Concreting	DoT 610.17 (a)	Any proposed hot or cold weathering procedure is submitted at least 2 weeks from placement and approved by the Superintendent.	Prior to start of works	R	SE		W		Proposed Procedure
2.0 Setting Out										
2.1	Setting Out	DoT Clause 703.17 IFC Design	Superintendent has reviewed and confirmed the set out. Work is constructed as per the set-out line, level, cross-sectional profiles on the drawings.	Each lot	H	SE		H		Survey Set out
3.0 Construction										
3.1	Ambient Weather for Concreting	DoT Clause 703.09  610.17	<ul style="list-style-type: none"><li>Freshly finished concrete is protected from sun, wind, rain until curing is completed. Further protection is considered for more extreme.</li><li>Concrete temperature right before placing is between 10°C and 32°C.</li><li>Evaporation rate is less than 0.50kg/m2 per hour.</li></ul>	Each lot	S	SE				
3.2	Machine extrusion or Slip Form	DoT Clause 703.23	<ul style="list-style-type: none"><li>Datum for grade/alignment is established.</li></ul>	Each lot	S	SE				Delivery Dockets



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			<ul style="list-style-type: none"><li>Concrete is fed to the machine at a uniform rate, free of surface pitting &gt;5mm and honeycombed patches. And satisfactorily compacted and dense.</li><li>When combining fixed forms and extruded work with similar mixes, the concrete in the fixed form section is compacted with internal vibration for a satisfactory compacted mass of concrete.</li></ul>							
3.3	Profile transitions and Matching Existing Sections	DoT Clause 703.24 SD2102	<ul style="list-style-type: none"><li>When joining new and existing kerb, profile transitions follow SD2102 and should appear identical to the existing sections.</li></ul>	Each lot	I	SE				
3.4	Surface Finish (Exposed Surface) Edgings	DoT Clause 703.25	Edgings are rendered and have a steel trowel finish. <ul style="list-style-type: none"><li>Rendering applied within 30m of placing/extruding.</li><li>Mortar used is 2 parts fines, 1 part cement, and sufficient water for a suitable consistency.</li><li>Rendering thickness is less than 3mm.</li><li>Exposed surfaces have a steel trowel finish.</li></ul>	Each lot	S	SE				
3.5	Surface Finish (Exposed Surface)	DoT Clause 703.25	Finished product is neat and of uniform colour. <ul style="list-style-type: none"><li>Edges are sharp and clean, and bullnoses are regular and of uniform appearance.</li><li>Discoloured concrete is cleaned/replaced.</li><li>Permanently hidden concrete surfaces including footpaths, edgings, concrete surfacing have a class 4 finish.</li><li>All other concrete elements have a class 3 finish for external surface and a class 4 finish for permanently hidden surface.</li></ul>	Each lot	I	SE				
3.6	Joints (Edgings-Transverse)	DoT Clause 703.26	<ul style="list-style-type: none"><li>Transverse joints are built at right angles to back of edgings at intervals less than 2.5m.</li><li>Extruded edging installation does not damage or distort adjacent surfaces.</li><li>Fixed form edgings templates are removed as soon as practicable after finishing placement.</li><li>The guillotine (extruding) or template (fixed) cuts between 40% to 70% of the are of section. In both cases the resultant slot in the edging shall be tooled to a depth of 20 mm to produce a neat groove not less than 5 mm wide on the exposed</li></ul>	Each lot	S	SE				



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			surfaces, following which a vertical cut shall be made through the base of the groove to a depth not less than 50 mm from the surface.							
3.7	Joints (Edgings-Expansion)	DoT Clause 703.26 (a) (ii)	<ul style="list-style-type: none"><li>Expansion joints are placed at junctions with bridges and are 15mm wide filled with cork or bituminous impregnated particle board strips extending for the full width/depth of edging.</li><li>Fillers are placed before concrete is placed and held firmly during placement.</li></ul>	Each lot	R	SE				
3.8	Curing & Protection of Concrete	DoT Clause 703.10 703.27	All concrete work is: <ul style="list-style-type: none"><li>Cured continuously with either water, wet hessian, or curing compound (AS3799) for at least 7 days. Except concrete edgings which is at least 3 days.</li><li>Protected from early loading (4 days): Pedestrians, animals, vehicles, and rain or other cause.</li></ul>	Each lot	S	SE				
3.9	Marking of conduit positions	DoT Clause 703.28	Existing conduit under edgings are marked up above the conduit with a suitable identification.	Each lot	I	SE				
3.10	Concrete Cracking	DoT Clause 703.30	<ul style="list-style-type: none"><li>Concrete has no surface crack more than 0.2mm. NCR is raised for cracking more than 0.2mm.</li><li>Cracked sections are removed and replaced or repaired as directed by the superintendent.</li></ul>	Each lot	I	SE				
3.11	Repair of Damaged Kerb and Channel	DoT Clause 703.30	Damaged kerb concrete repairs shall be carried out using a method and materials accepted by the Superintendent.  Kerb channel and edgings shall have a length at least 1m removed and replaced with a section: (a) Constructed on compacted bedding. (b) Dowelled into the adjoining sections with 12 mm diameter hot dip galvanised dowels embedded at least 100 mm each side of the joint; and, (c) Shaped and finished with curved trowels to match the profile and surface finish of adjoining sections	Each lot	I	SE		R		
3.12	Paving	DoT Clause 703.15	Concrete paving including footpaths, edgings, other surfacing's are shaped to match existing fixtures, e.g., pit covers, edgings and vehicle crossings, within 5 mm.							



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4.0 Completion										
4.1	As Built Survey	DoT Clause 703.15	Kerb and channel shall be constructed to the level of the adjoining pavement with a tolerance of 0 to +10 mm. Except on curves or in shaped areas, the deviation of the finished work from a 3 m straightedge shall not exceed 5 mm at any point.	Each lot	R I	SE		R		
5.0 Work Lot Close Out										
5.1	Product Non-Conformance	QMP	All Product Non-Conformance(s) recorded and closed (if applicable)	Each lot	R	SE				NCR No:.....  NCR reports
5.2	Quality Representative to check the above criteria and records to confirm	QMP Lot Records	All above criteria met, and records identified attached.	Each lot	R	SE				Completed Checklist (if applicable) and reports and other compliance records attached.

Works complete (signer SS) \_\_\_\_\_ Date works complete \_\_\_\_\_

Lot conforms (signer PE) \_\_\_\_\_ Date lot closed \_\_\_\_\_ NCR/s no. raised \_\_\_\_\_ Date NCR closed for this lot \_\_\_\_\_

**Responsibility (Resp.) Key:** PM-Project Manager, PE-Project Engineer, SE- Site Engineer, CS-Civil Superintendent, SS-Site Supervisor, SV-Surveyor, CR-Client Representative  
SI - Superintendent

**Inspection Key:** W – Witness, H – Hold Point, S – Surveillance, R – Review Point, I – Inspection Point