Inspection and Test Plan (ITP)

HSEQ Form

ITP No: R54 (Ed.3/Rev 3) Process: General concrete paving Project: Sydney Rd / Common St RAB, Goulburn Job No: Work Area / Lot No

Process Step	Reference documents	Criteria/Test Method/Spec	Record for conformity	Responsible Position	Type of Record	Acceptance/Comments Completed Not completed
Obtain conformance of granular foundation materials	R54.2.1, Annexure R54/L	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 RMS T109, of between 2 and 12 (testing frequency 1 per 200m3 prior to placement) Class 2 DGB must comply with Specification RMS 3051.	Test report	Project engineer	TP	
Use approved concrete mix: Hold Point No.: Mix ID: Strength:	R54.2.1.2 & R53.1.4	Refer to R53-MIX-lots for Concrete mix approvals (Hold Points)	Mix report	PV/PE	HP	
Obtain Certificate of conformity for reinforcement supply	R54.2.2 & R53.4	☐ Must comply with either AS/NZS 4671, AS1311 or the supplier is accredited with ACRS ☐ Galvanizing must comply with AS/NZS 4680 ☐ Welding must comply with AS 1554.3	Compliance certificate	PV/Project engineer	AP	





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4. Tactile Indicator Tiles	R54.2.3	Tactile indicators must conform to AS/NZS 1428.4.1 and must be stain, slip, impact and UV resistant. Tactile indicators must have a colour contrast to surrounding surfaces and provide a luminance contrast to the surrounding surfaces of ≥ 0.3 (30%) as per Appendix E of AS/NZS 1428.4.1. Adhesive (proprietary bedding material, as per AS 3958.1) for bedding tactile indicator tiles must be either cement-based adhesive or modified mortar (refer R54 Cl 6.1) which is not susceptible to deterioration from water infiltration and can withstand pedestrian and maintenance vehicle traffic loads.	Compliance Certificate	Project engineer	AP	



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5. Obtain Certificate of Compliance for Preformed Joint Fillers	R54.4.4.3	Provide a certificate of compliance verifying that proposed product complies with the requirements of 3204 and NATA endorsed test documents. Certification must relate only to the composition on which the tests were made and valid for ≤ three years. New certification will be required whenever changes in product composition are made.	Compliance Certificate	Project engineer	AP	
Designate concrete truck washout area (s)	R53.5	Impermeable plastic lined or approved equivalent bunded area	Verification Checklist	Project engineer	IP	
7. Excavation and Filling	R54.3.1	□ Verify area is excavated or filled to the levels shown on the design drawings or as directed by the Project Verifier in accordance with R44. □ Surplus excavated material to go into general earthworks activities in accordance with R44. □ Top up low areas to required levels using Select Fill Type U complying with R54 Cl.2.1.1. □ Where filling at the sides of Paving or behind kerbs unless shown otherwise on the Design drawings or directed by the Project Verifier, fill these areas with Select Fill Type U complying with R54 Cl. 2.1.1.	Verification Checklist	Project engineer	IP	

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8. Unsuitable material	R54.3.2 & R44	If any area of the foundation contains material that is unsuitable to support the proposed pavement, remove and replace this unsuitable material or use some other foundation treatment in accordance with RMS R44. The Hold Point in RMS R44 regarding unsuitable material applies. Principal to be notified if found unsuitable materials	Verification Checklist	PV/Project engineer	HP	
9. Notify the GDR that unsuitable materials has been removed as directed	R54.3.2 & R44.2.4.1	Notification to the GDR is done after the removal of unsuitable material. The Geotechnical Design Representative will inspect the excavation and may require removal of further material as unsuitable material prior to authorising the release of the Hold Point.	Hold point	PV/ Project engineer	HP	
10. Granular Subbase	R54.3.3	Unless shown otherwise on the Design drawings, construct a subbase layer comprising Class 2 DGB20 beneath the concrete paving as follows: Footpath: 75mm thick; Bicycle path/shared path: 150 mm thick.	Verification Checklist	Project engineer	IP	

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11. Compaction	R54.3.4	Compact the subbase, foundation, etc to achieve the minimum characteristic value of relative compaction specified Table R54.1 hence: ☐ Under footpath, bicycle path or shared path & median - Subbase layer (where required) ≥100% - Top 150 mm of foundation ≥ 98% - Filling below a depth of 150 mm from top of foundation ≥ 95% ☐ Fill outside of footpath, bicycle path/shared path and fill at edge of paving and behind kerbs ≥ 95% ☐ Driveways to comply with the relevant Council's requirements, unless specified otherwise in the Deed documents. ☐ Testing in accordance with Q6	NATA Test Reports	Project engineer	TP	
12. Check finished surface levels	R54.3.5	☐ Construct 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	Project engineer	Surveyor	

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ITP No: R54 (Ed.3/Rev 3)	Process: Gen	eral concrete paving	Project:	Sydney Rd / Co RAB, Goulburn	ommon St Job N	No:	Work Area / Lot No
13. Install steel reinforcement	R54.4.2, R53.4	paving Where reinforcem shown on the Design provide the as specifie R54.2. shown on Council's 3 unless specifie deed docu Reinforcer as per des or R53 Cl Provide cover for t reinforcem accordanc hence 50 shown oth Design dra For slal 120 mm a the steel mesl half of the For slal less than steel mesl depth of th	the steel the steel thent is not In drawings, e reinforcement ed in Table the relevant STD dwgs, ecified otherwise uments. ment lap splices sign drawings 4. e a minimum the steel the steel the steel the steel the the mid- the steel the with R53 CI.4 the mid steel the the mid- the steel the the mid- the steel the steel the	Verification Checklist	PV/Project engineer	HP	

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ITP No: R54 (Ed	d.3/Rev 3)	ocess:	General concrete pavin	Project:	Sydney Rd / Co RAB, Goulburn	ommon St Job No		Work Area / Lot No
14. Commence w planning activities		R54.4.3, R53.6.3 & Annexure R53/E	free of construence o	fy formed areas water, dirt, action debris and her foreign matter ed. In not imminent, air ature between 5- crete tester ed as required ded concrete at area provided	Verification Checklist	Project engineer	IP	
15. Notification for Placement of Concrete		R54.4.3 & R53.6.1	As req precedence. Notify Representation 2 more service. Working intendence. Working intendence. When formworking reinfort position be contained.	uired for the ing Witness Point the Project Verifier tentative, not less 4 hours and not han 3 clear g days prior to the editime of encing to place te, mortar or grout, xing of the ordenent in an (if applicable) will appleted and when te, mortar or grout	Hold point	PV/Project engineer	HP	

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16. Carry out the concrete pour	R53.6.2, R53.6.4 & Annexure R53/EL	- Unreinfor N20, 80mr 20mm agg - Reinforce 80mm slur aggregate	or correct mix oced paving in slump & regate ed paving N25, inp & 20mm concrete is finished to: gregation or terials; emature e a dense ous product onolithic points and edges; intrapped air y surround all ent and ents; and et the specified and surface the finishing concrete nieved the ons and grade; om the surface ement of the surface; bided plastic or	NATA test report	PV/ Project engineer	HP	





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17. Transverse joints in pavement	R54.4.4.1	must be c right angles ±6 longituding paving slab, othe will be trea shaped sla ☐ Avoid v	al edge of the rwise the slab ated as odd abs. where possible dd shaped and	Verification Checklist	Project enginee	r IP		





ITP No: R54 (Ed.3/Rev 3)	Process: General	concrete paving Project:	Sydney Rd / Co RAB, Goulburn	Job No:		ork Area .ot No
18. Movement joints in pavement	R54.4.4.3	a) Footpaths and Medians Provide contraction joints 3 mm wide and 25 mm deep at every 1.5 m length of footpath or median paving. Provide expansion joints at intervals not exceeding 6 m and at the location of expansion joints in adjacent kerbs. Provide isolation joints along median paving where the paving abuts against kerbs, gully pits, retaining walls and bridges. Expansion and isolation joints must be 10 mm in width for the full depth of the paving and filled with a preformed joint filler in accordance with Specification 3204 (b) Bicycle Paths/Shared Path Provide movement joints as shown on the Standard Drawings. (c) Driveways Provide movement joints in driveways at the locations shown on the relevant Council's	Verification Checklist	Project engineer	IP	



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19. Finished paving surface	R54.5.1	surface of (except pa paving) the finish spect R54.3 The finish surface mucolour and All edge those abut paving or structure neatly rour of 10 mm. other pavir structures	ified in Table shed paving ust be uniform in appearance. es, except for ting other es, must be nded to a radius Edges abutting		Project engineer	IP		





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20. Curing & protection of concrete paving	R53.7.1, R53.7.2 & R53.7.3	□ Only approved curing compound to be used (refer to R53.7.3 for details) □ After initial set of concrete; Surface is firm and free of bleed water, apply curing and cure for at least 7 days □ If Moist Curing, immediately after concrete has taken its initial set, spray all exposed surfaces with water and keep the concrete continually wet for at least seven (7) days. The water used must be free from ingredients harmful to concrete. □ For Curing Compounds apply in accordance with manufacturer's recommendations or at a spray rate min. 0.2L/m₂ whichever is the greater □ Ensure all exposed surfaces receive a uniform cover of the curing compound.	Verification Checklist	Project engineer II	P	

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21. Submission of patterned concrete paving details	R54.5.2.1	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 Project Verifier may require a sample panel to be prepared and submitted.	Hold point	PV/Project engineer	HP	
22. Procedure for constructing concrete paving	R54.5.2.2	☐ Apply the stencil only after the bleed water has evaporated from the concrete surface. ☐ Apply each coat of colour hardener at a consistent rate achieve a total thickness of between 3 mm and 4 mm. ☐ On removal of the stencil, the surface must exhibit a well defined pattern with no edge ravelling. ☐ Apply a suitable sealer to the finished surface within 24 hours of forming the pattern, followed by a second coat of sealer 3 days later	Verification Checklist	Project engineer	IP	

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ITP No:	R54 (Ed.3/Rev 3)	Process:	General concrete paving	Project:	Sydney Rd / Co RAB, Goulburn	ommon St Job No		Work Area / Lot No
23. F	Finished surface levels	R54.5.3	of the conconforms surface let tolerance mm. Verify to does not concommon bettom of edge laid if by more the except at graving about structure, across the exceed 5 in the surface of the	grade changes. the concrete uts an adjacent any vertical ste i joint must not mm unless perwise on the		Project engineer	Surveyor	
	ubmission of details of actile indicator tiles	R54.6.1	tiles, associated as adhesiv	tactile indicator d materials (suc ve), and n method to the	h	PV/Project engineer	HP	





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25. Installation of Tactile Indicators	R54.6 & AS 3958.1	□ Ensure tactile indicators will be installed at locations as shown on the Design drawings. □ Performance level of Tactile indicators is "Commercial" and follow installation guidelines as detailed in AS 3958.1CI.3.3.1.2 (Exterior floors − General applications, using cement-based adhesive or modified mortar) □ Prior to installing the tiles, allow the concrete to cure for 7 days (as per R53), or a duration recommended by the tile adhesive manufacturer to suit the adhesive used. □ Prior to placing tiles, clean concrete slab of dust using water jets, and any contamination using where necessary high pressure hydro-blasting, sand/grit blasting or mechanical scabbling. □ Install tiles so they are fully bedded, without any voids beneath them. □ Install tiles at the tile manufacturer's recommended spacing. Pack the spaces between tiles with grout, and free of all voids and □ Do not allow traffic over freshly grouted joints for at least 7 days, unless recommended otherwise	Verification Checklist	Project engineer	IP / L	Lot No

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		by the manufacturer. Install movement joints at locations where: - tiles abut restraining surfaces; - joints exist in the concrete below the tiles; - a change of plane exists in the tiled surface Install the tactile indicator tiles such that the base surface is sitting flush with adjacent concrete surfaces. The finished surface level of the tiled surface must comply with the requirements of R54 Cl. 5.3 pits. Remove any excess grout or grout film.			
DEVIEW BY DDO IFCE MANA	CER				
REVIEW BY PROJECT MANA Have tests passed?	GER		YES/NO Test Report No:		
Is all testing as per specified frequency?			YES/NO		
Are earthworks within location and level tolerances?			YES/NO		
Have all RMS Hold Points been released?			YES/NO		
			YES/NO Sign:		For Closed Out: YES/NO
		All work has been satisfactorily completed.		YES/NO	
Any nonconformances?	completed.		YES/NO		

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HP: Hold Point
AP: Approval Point
IP: Inspection point
TP: Test Point

