Inspection and Test Plan - Resurfacing

Site Location: Herbert street RAB , Invercargill

ITP Prepared By:	Nik Basarge	**ITP Approved By:**	Edward Hailes
Date:	Wednesday, 20 December 2023	**Date:**	

Hold Point — Work shall not proceed past Hold Point until acceptance criteria is reached and verified.

ITP Reference Number	ACTIVITY DESCRIPTION	VERIFICATION ACTIVITY	METHODS OR REFERENCE	FREQUENCY	ACCEPTANCE CRITERIA	Hold Point	Records	Responsible Person	Records/Remarks incl NCR ref (sign & date)
1.0 General									
1.1	Public Notification	Communication	Media/Letter Drop	Prior to establishing on site and as situation changes.	*All relevant properties and stakeholders contacted by works notice. *TREIS notification	**Mandatory HOLD POINT**	Letter	Paving Manager / Contract Manager	
1.2	Crew Instructions / Crew Briefing Plans	Approval	Written Plan	Prior to work commencing.	Crew Instructions available including all surfacing requirements of the site.	**Mandatory HOLD POINT**	CBPs	Paving Manager / Contract Manager	
1.3	TMP	Approval	Approved Plan	Prior to work commencing.	*Approved plan from Southland TMC (Simon Wilson) *CoPTTM onsite record form used	**Mandatory HOLD POINT**	TMP	Paving Manager / Contract Manager	
1.4	Pavement Marking - pickup of existing	Data	Road Runner or site measurement	Prior to milling commences	Road Runner or site measurements	**Mandatory HOLD POINT**	Data	Paving Manager / Contract Manager	
1.5	Weather	Approval	Weather Forecast Data	Daily	Consistent dry weather with no significant rainfall. +10^{o}C for duration of paving operations.	**Mandatory HOLD POINT**	Site Diary	Foreman / Contract Manager	
1.6	Resurfacing Extents	Approval	Site-visit	Prior to commencement	ICC and Paving Manager visit site to mark and agree extents.	**Mandatory HOLD POINT**	Site-visit notes	Paving Manager / Contract manager	
2.0 Milling Operations (Full Mill at 75mm)									
2.1	Services located and marked-out.	Lay out	-	All services within milling limits	Site walk over to confirm all services are marked prior to milling operations beginning and also documented on CBP so all staff are aware.	**Mandatory HOLD POINT**	Site Photos	Foreman / QA	
2.2	Dip-checks	Measure	Measure each side of the cut the milling machine makes	Every 10m, each mill run	*Dip check during milling to ensure 45mm mill depth achieved prior to placing mix.	**Mandatory HOLD POINT**	-	QA / Foreman	
2.3	Overmilling	Photos and measurements	Photos and measurements	Prior to resurfacing	ICC and Paving Manager visit site to mark and agree extents.	**Mandatory HOLD POINT**	Photos and measruements	Paving Manager / QA	
2.4	Pre-levelling	Photos and measurements	Photos and measurements	Prior to resurfacing	*ICC provided opportunity to inspect surface and agree extents of any pre-levelling if required.	**Mandatory HOLD POINT**	Site-visit notes	Paving Manager / QA	
3.0 AC14H Paving (75mm)									
3.0	AC14H Mix Design verification	Lab Testing	NZTA M/10	Prior to commencement	*Mix design compliant with traffic category (Heavy Traffic) *Mix design compliant	**Mandatory HOLD POINT**	IANZ Lab Reports	Paving Manager QA	

3.1	Production Testing: Binder Content, Aggregate Grading, Maximum Specific Gravity, Temperature	Lab Testing	NZTA M/10	1 / 200t or maximum of 3 required per production lot	*As per material mix design and JMF specification and within production tolerances of table 5.3 NZTA M/10. *[exception to production testing that night if <100T were produced after a night where production testing was performed]		IANZ Lab Reports	Paving Manager QA	
3.2	Membrane	On-site check	NZTA M/10	Prior to AC14H	*Single coat G4 chipseal with 1.5 l/m² residual binder.	**Mandatory HOLD POINT**	Photos	Paving Manager QA	
3.3	Preparation	Visual	NZTA M/10	Every section	Paving Plan to be completed for every night with dimensions		Paving plan and CBPs	Paving Manager / Foreman	
3.4	Cold Joints	Visual	NZTA M/10	Every join	*joints not to be below a trafficked wheel path - M10 *transverse joints (start and finish) to be offset by 2m in each layer		Photos	Foreman	
3.5	Check asphalt surface for deficienceis and self identify	Visual Inspection	NZTA M/10	Continuous during paving operation and site walk over post paving.	*Visual inspection during paving operation, any areas of segregation are to be addressed prior to compaction	**Mandatory HOLD POINT**	Photos and visual inspeciton	Paving Manager / QA	
3.6	Laying Temperature and Compaction	Approval	NZTA M/10	Every truck load	*Arrival temperature within 150deg +/- 10deg to ensure compaction can be achieved as per mix design.	**Mandatory HOLD POINT**	IANZ Lab Reports	QA	
4.0 Qaulity Assurance									
5.0	AC14H Sample Results Submission	Lab Testing	NZTA M/10	Once samples have been tested	*Production samples meet NZTA M/10 specification		IANZ Lab Reports	Paving Manager	
5.1	Core sampling result submission	Lab Testing	NZTA M/10	Once samples have been tested	*Core samples meet NZTA M/10 specification		IANZ Lab Reports	Paving Manager	
5.2	Surface Inspection	Check ride quality and surface irregularities using straight edge	NZTA M/10 T/10	Continuous	*Site passes the initial NAASRA, <5mm deviation from 3m Straight edge.		Site Inspection Record, NAASRA report	Paving Manager	
5.3	Pavement Marking	Completed	NZTA P/22	Once	*Re-applied as per the existing layout and complies with NZTA P/22 specifications *reinstatement within 24hrs of project finishing. Temporary limit lines installed daily.		-	Paving Manager	
5.4	Service Lids	Completed	-	At completion	Any service lids that were lowered and not at correct level following works are raised.		-	Paving Manager / QA	
5.5	Bandaging	Completed	-	At completion	Start and stop extents bandaged.		-	Foreman / QA	
5.6	RAMM pavement and surface records	RAMM records	As requested by Asset Management Team	Within 7 working days of work completed.	*Pavement structural layer extents recorded and verified by Paving Manager *Surfacing layer extents recorded and verified by Paving Manager *Mix design information of all mix provided.		RAMM records	Paving Manager	
5.7	Final Measurement Check	Site measurements	Standard practice	At completion	Accurate as-built measurements recorded for claim.		As Builts	QA / Paving Manager	

Quality Record Close Out: _____ Date: _____

(signature)

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(name)

This record to Contract File.