				_		Construction Process: Start RP Modified Basecourse Layer Finish RP				INSPECTION AND TE	ST PLAN - VERSION CONTROL	0-IFC	1 - IFC	2 - IFC	3 - IFC
	WAKA KOTAHI		Prepared by Pavement [					Design Lead:	Emile and Zyl	7/3/25			1		
WAKA KOTAHI NZ TRANSPORT AGENCY		<b>Downer</b>					Reviewed by Construction	on Manager:	Wayne Bowden	7/3/25			1		
DOMILEI				Project Name: T2W - Tirau to Waiouru - Rehabilitation Works				nt Manager:	Aiden Smith / Nick Schilov				1		
							Approved Quality Lead.:		Hansel Feliciano	7/3/25			1		
Client's Re	ep. : Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL)	Contractor's Rep. : Wayne Bowden (C Rudani (PM)	CM) / Sid			cedures for Direct and Indirect Tensile Strength	Approved by Design Lea	d:	Thorsten Froebel	7/3/25					
	(Stellar Projects Ltd. (SPL)	Rudaii (Fivi)		Testing of Modified and Bound Pa	vernent iviaterials		Issued by Project Directo	or	Chris Seath	7/3/25			1		
ltem	Task/Activity/Description		Insp	ection/Test		Acceptance Criteria	Record documents (QCP - Quality Control	Responsibility	Project Specific Notes / Instructions	R =	Checked by R = Responsible, I, Informed, A = Approve				
item	rasky Activity) Description	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method	Acceptance cinena	Portal	Responsibility	Project specific Notes / instructions	Designer	Eng. Rep	Contractor	Date		
1.0. AGG	REGATE AND BINDER OPTIMISATION /	ACCEPTANCE TESTING / DESIGN and	DRAWING	GS .											
1.01		Crushing Resistance	Н	1 per 10,000 m3	NZS4407:3.10	< 10% passing 2.36mm sieve at 130kN	IANZ report	Contractor		Α	I	R	dd/mm/yy		
1.02	AP40 Basecourse Aggregates used for	Weathering Quality Index	Н	1 per 10,000 m3	NZS4407:3.11	AA, AB, AC, BA, BB, CA	IANZ Report	Contractor		Α	1	R	dd/mm/yy		
1.03	overlay (if applicable)	Calfornia Bearing Ratio (CBR)	Н	1 per 10,000 m3	NZS4402:4.1.3 NZS4407:3.15	Compaceted using NZ Vibe Hammer 4-day soaked CBR ≥ 80%	IANZ Report	Contractor		А	ı	R	dd/mm/yy		
1.04	Notes:  H = Hold point up to approval of  Optimisation Testing	Quality of Fines, PI and CI	н	1 per 1,000 m3	NZS4407:3.4 - PI NZS4407:3.5 - CI	PI ≤ 5 CI ≤ 3	IANZ Report	Contractor	NZTA M04: 2024 AP40 - Class 2 PI and CI applies	A	1	R	dd/mm/yy		
1.05	M = Monitor during production	Broken Faces Content	Н	1 per 1,000 m3	NZS4407:3.14	≥ 70% more than two broken faces on aggregates between 37.5mm and 4.75mm	IANZ Report	Contractor	Waived if aggregate is from crushed hard rock quarry	А	- 1	R	dd/mm/yy		
1.06		Particle Size Distribution	Н	1 per 1,000 m3	NZS4407:3.8.1	NZTA M04:2024-Class 2 Class 2 in Table 12 for PSD Table 13 for shape control	IANZ report	Contractor		А	I	R	dd/mm/yy		
1.07		Blend Particle Size Distribution	н	1 per 1,000 m3	NZS4407:3.8.1	Check if average of existing (from TPs) and any overlay will meet the ideal FBS / BE grading.	Report using IANZ Reports for AP40 and TP PSDs	Designer	Designer to advise if "average" blend is acceptable.	R	А	1	dd/mm/yy		
1.08	Optimisation of Stabilising Agent(s) (FBS only)	Indirect Tensile Strength, ITS	н	1 Optimisation test per aggregate type	NZTA T/19: 2020	Testing at 1mm/min: BSM Dry ITS: 175 kPa to 400 kPa BSM Soaked ITS: 150 kPa to 350 kPa Testing at 50.8mm/min: BSM Dry ITS: 210 kPa to 480 kPa BSM Soaked ITS: 180 kPa to 450 kPa	IANZ Report	Designer	Designer to advise on binder content(s) Note that the min.design ITS is as per T/19 Notes + 25kPa to ensure that the min.ITS values are obtained in the field	R	A	1	dd/mm/yy		
1.09		Unconfined Compressive Strength, UCS	Н	1 Optimisation test per aggregate type	CCNZ / NPTG / CETANZ Industry Guide	UCS limits set by the design engineeer	IANZ Report	Designer		R	А	ı	dd/mm/yy		
1.10	1	Modified Maximum Dry Density	Н	Single Point DD vs WC during optimisation test	NZS 4402.4.1.3	To determine target density	IANZ Report	Designer	Required before Stabilisation comences	R	А	ı	dd/mm/yy		

			_	Construction Process:	Start RP		I	INSPECTION AND TES	ST PLAN - VERSION CONTROL	0-IFC	1 - IFC	2 - IFC	3 - IFC				
WAKA KOTAHI NZ TRANSPORT AGENCY				Madified Passacures Laury		Prepared by Pavement Design Lead:		Emile and Zyl	7/3/25								
		Downer		Ri		Reviewed by Construction Manager:		Wayne Bowden	7/3/25								
DOMILE				Project Name: T2W - Tirau to Waiouru - Rehabilitation Works			Reviewed by Surf./ Pavn	nt Manager:	Aiden Smith / Nick Schilov								
				Specifications: NZTA B/5: Specific	ation for In-Situ Stabilisa	tion of Modified Pavement Layers,	Approved Quality Lead.:		Hansel Feliciano	7/3/25							
Client's R	ep. : Neil Payne / Deena Tapara	Contractor's Rep. : Wayne Bowden (C	CM) / Sid			cedures for Direct and Indirect Tensile Strength	Approved by Design Lea	d:	Thorsten Froebel	7/3/25							
	(Stellar Projects Ltd. (SPL)	Rudani (PM)		Testing of Modified and Bound Pavement Materials			Issued by Project Directo	or	Chris Seath	7/3/25							
ltem	Task/Activity/Description			ection/Test			Record documents (QCP - Quality Control	Responsibility	Project Specific Notes / Instructions	Checked by  R = Responsible, I, Informed, A = Approve							
		Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method		Portal			Designer	Eng. Rep	Contractor	Date				
2.0. INIT	IAL OVERLAY AND SEAL GRANULATION																
2.01	Setout section	Install offset pegs / check geometric model; record centreline, edge line or mark out stabilisation extents from existing line marking	н	Prior to each section	Survey	Document existing furniture	Electronic survey files	Contractor			I	R	dd/mm/yy				
2.02	Initial granular overlay and check levels	Supply, pre-compact and trim to line and level with NZTA M/4 AP40	н	Prior to granulisation	Use grader's machine control and inspect shape	Minimum: -10mm Maximum: +20mm	Drawing Showing levels and crossfalls	Stabilising Contractor with Main Contractor	Overlay approved AP40 M/4-2 material to the thickness specified and precompact. Level correctness is critical to ensure we granulate all chipseal.		A	R	dd/mm/yy				
2.03		Pre-hoe to depth specified and shape as instructed in the site specific methodology statement and/or IFC drawings and proof roll				Dec hoo to double or effect and the		Prior to stabilisation per section	Use grader's machine control and inspect shape		N/A	Stabilising Contractor	Intention is to carry out only minor correction (eg.2% to 3%). Any major shape corrections to be identified prior to site establishment and included in the site specific methodology statement		А	R	dd/mm/yy
2.04	Pre-hoe, shape and proof roll		н		Visual check <u>or</u> Vibratory Roller's response meter		Stabilising Contractor confirm no obvious soft areas found	Stabilising Contractor	Any soft spots identified by visual means or that show up as significantly different to be raised with the ER for further instructions		А	R	dd/mm/yy				
2.05				1 per 50m per cut	Pilot Holes to prehoe depth.	Check that no in-tact chipseals are present after prehoe	Daily work Log	Stabilising Contractor	Existing chipseals need to be granulated throughout. Last opportunity to confirm this has been achieved.		А	R	dd/mm/yy				
2.06		Plateau Density Test	н	On first day per site and then 1 per 10,000m2 unless material or anvil conditions change	Draft NZTA T/24 (Aug-2024)	To establish suitability of rollers and compaction mode / pattern to achieve FBS-MDD	Field PDT sheet photos into ConQA for ER and Pavement designer to assess. IANZ report when processed	Stabilising Contractor	If FBS-MDD can't be achieved then the PDT-MDD must be approved by the ER	I	A	R	dd/mm/yy				
2.07	Compaction (Subbase)	Maximum Dry Density	М	On the first day on a new treatment section, then 1 per 10,000m2 unless the material changes	NZS 4402.4.1.3	For analysis of DoC  To be done at the sampled MC, at hand squeeze test MC and 1% above the hand squeeze test on site	IANZ Report	Stabilising Contractor	MDD briquette to be produced on site if travel time to lab > 30 minutes  Note that if the Stabilising Contractor notices changes in material then another one point DD at the hand squeeze test moisture content shall be carried out.	1	А	R	dd/mm/yy				
2.08		Degree of Compaction (DoC)	н	5 per 1,000m2	NZS 4407.4.2.1 (DT full stabilising depth)	Average DoC ≥ 95% Minimum DoC ≥ 92%	IANZ Report	Stabilising Contractor		ı	A	R	dd/mm/yy				

				Construction Process:	Start RP			INSPECTION AND TES	ST PLAN - VERSION CONTROL	0-IFC	1 - IFC	2 - IFC	3 - IFC	
WAKA KOTAHI NZ TRANSPORT AGENCY		_		Modified Basecourse Layer	Finish RP		Prepared by Pavement I	Design Lead:	Emile and Zyl	7/3/25				
		<b>Downer</b>		Re		Reviewed by Construction Manager:		Wayne Bowden	7/3/25		1	1		
		DOMILL		Project Name: T2W - Tirau to Wajouru - Rehabilitation Works			Reviewed by Surf./ Pavr		Aiden Smith / Nick Schilov			1		
				Specifications: NZTA B/5: Specifica	ation for In-Situ Stabilisa	tion of Modified Pavement Layers,	Approved Quality Lead.	<del>-</del>	Hansel Feliciano	7/3/25				
ent's Re	ep. : Neil Payne / Deena Tapara	Contractor's Rep. : Wayne Bowden (C	M) / Sid			cedures for Direct and Indirect Tensile Strength	Approved by Design Lea	d:	Thorsten Froebel	7/3/25		<b>†</b>	<u> </u>	
	(Stellar Projects Ltd. (SPL)	Rudani (PM)		Testing of Modified and Bound Pa	vement Materials		Issued by Project Direct		Chris Seath	7/3/25		<b>†</b>	<u> </u>	
Item	Task/Activity/Description		Inspe	ection/Test			Record documents (QCP - Quality Control		Project Specific Notes / Instructions	Checked by R = Responsible, I, Informed, A = Approve				
item	Tusky Activity Description	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method	Acceptance Criteria	Portal	reciponisionity	Troject specific roces / instructions	Designer	Eng. Rep	Contractor	Date	
0. FINA	AL OVERLAY BEFORE BITUMEN STABILIS	SATION STARTS												
3.01	Final Granular Overlay and check levels	Supply, pre-compact and trim to line and level with NZTA M/4 AP40	н	Prior to stabilisation per section	Survey	As per NZTA Z/16 Minimum: -5mm Maximum: +15mm	Drawing Showing levels and crossfalls	Stabilising Contractor with Main Contractor	This is the last opportunity to check items before adding the FB. Assess items such as (but not limited to):  - overlay aggregate quality / consistency - moisture content  - any concerns with shape and tie in - etc.		ı	R	dd/mm/yy	
3.02	Production Plan	Plan showing cut lines and sequencing of works	М	Prior to each section	Daily Report	Points covered in NZTA B/5	Daily Production Plan	Stabilising Contractor			1	R	dd/mm/yy	
3.03	Weather conditions	Material behind stabiliser	М	Prior to spreading	Measurement	Material after stabilisation: BE: > 20°C, FB: > 20°C and Ambient: >5 deg.C	Daily work Log	Stabilsing Contractor			-	R	dd/mm/yy	
3.04	Weather conditions	Wind	М	Prior to spreading cement or lime	Local weather stations	Wind speed < 25 km/hr	Daily work Log	Stabilsing Contractor			1	R	dd/mm/yy	
3.05	Weather conditions	Rain	М	Prior to spreading cement or lime	Local weather stations	No spreading of cement / lime if it is raining or likely to rain before these can be mixed in with the material	Daily work Log	Stabilsing Contractor			1	R	dd/mm/yy	
0. BITU	IMEN STABILISATION OPERATION													
4.01		Lime (if applicable - check PI delete otherwise)	М	Per Batch	TNZ M/15	Conform to Specification	Certificate in contractor's site folder	Stabilising Contractor			I	R	dd/mm/yy	
4.02	Stabilising Agents	Cement, GP	М	Per Batch	NZS 3122	Conform to Specification	Certificate in contractor's site folder	Stabilising Contractor			_	R	dd/mm/yy	
4.03		Bitumen (130/150)	М	Per Batch	M/1	Conform to Specification	Certificate in contractor's site folder	Stabilising Contractor			-	R	dd/mm/yy	
4.04	Spreading of powdered stabilising agent	Place 1m2 canvas or 0.5m x 0.5m trays along spreader run	М	every 400 m2 every 150m for a 2.4m width	Weigh mat or tray	± 0.5kg/m2 of specified rate	Daily work Log	Stabilising Contractor			1	R	dd/mm/yy	
4.05	(Cement / Lime)	Compare area spread with weight used for each spreader load	М	On-going measurement by computer/load cells	Measurement each run	± 2.5% of specified rate	Daily work Log	Stabilising Contractor			1	R	dd/mm/yy	
4.06		Flow meter and operator's display readings	М	Continous monitoring by the operator and the grounds person	Visual display reading	± 5% of specified rate	N/A	Stabilising Contractor			ı	R	dd/mm/yy	
4.07	Injection of bituminous stabilising agent (FBS or BE)	Compare tonnes used (from the stabiiser's PCU) with the measured area	М	Record usage from PCU at the end of each run	Record readings at the end of each run	± 3% of specified rate	Daily work Log	Stabilising Contractor			_	R	dd/mm/yy	
4.08		Compare tonnes used (from delivery docket) with measured area	М	For each bitumen tanker load	Dip bitumen tanker before and after	± 2.5% of specified rate	Daily work Log	Stabilising Contractor			I	R	dd/mm/yy	
4.09	Injection & Mixing of Water	In-situ Stabilisation process	М	On-going visual assessment	Visual and hand squeeze test	Mixed material free of pockets or streaks. Overlaps minimum of 150mm	Daily work Log	Stabilising Contractor			1	R	dd/mm/yy	

				Construction Process:	Start RP			INSPECTION AND TES	ST PLAN - VERSION CONTROL	0-IFC	1 - IFC	2 - IFC	3 - IFC
WAKA KOTAHI NZ TRANSPORT ACENCY				Modified Basecourse Layer	Finish RP		Prepared by Pavement D	esign Lead:	Emile and Zyl	7/3/25			
		Downer		ı			Reviewed by Construction Manager:		Wayne Bowden	7/3/25			
DOMILLI				Project Name: T2W - Tirau to V	Vaiouru - Rehabilitatio	n Works	Reviewed by Surf./ Pavm	nt Manager:	Aiden Smith / Nick Schilov				
							Approved Quality Lead.:		Hansel Feliciano	7/3/25			
Client's Re	ep. : Neil Payne / Deena Tapara	Contractor's Rep. : Wayne Bowden (	CM) / Sid			cedures for Direct and Indirect Tensile Strength	Approved by Design Lead	d:	Thorsten Froebel	7/3/25			
	(Stellar Projects Ltd. (SPL)	Rudani (PM)		Testing of Modified and Bound Pa	avement Materials		Issued by Project Directo	r	Chris Seath	7/3/25			
ltem	Task/Activity/Description		Insp	ection/Test		Acceptance Criteria	Record documents (QCP - Quality Control	Responsibility	Project Specific Notes / Instructions	Checked by R = Responsible, I, Informed, A = Approve			prove
		Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method		Portal			Designer	Eng. Rep	Contractor	Date
4.10	Depth of stabilisation	Depth of stabilisation	М	Every 200m	Measurement	+15mm / -5mm from specified depth	Daily work Log	Stabilising Contractor			1	R	dd/mm/yy
4.11	FBS material	Stabilised material strength - ITS	М	3 soaked ITS + 3 dry ITS per Lot or when the material changes	NZTA T/19N: 2020	Testing at 1mm/min: BSM Dry ITS: 150 kPa to 400 kPa BSM Soaked ITS: 120 kPa to 350 kPa Testing at 50.8mm/min: BSM Dry ITS: 180 kPa to 450 kPa BSM Soaked ITS: 150 kPa to 420 kPa	IANZ Report	Stabilising Contractor	ITS briquettes to be produced on site if travel time to lab > 30 minutes.	1	A	R	dd/mm/yy
4.12	Compaction	Plateau Density Test	н	On first day per site and then 1 per 10,000m2 unless material or anvil conditions change	Draft NZTA T/24 (Aug-2024)	To establish suitability of rollers and compaction mode / pattern to achieve FBS-MDD	Field PDT sheet photos into ConQA for ER and Pavement designer to assess. IANZ report when processed	Stabilising Contractor	If FBS-MDD can't be achieved then the PDT-MDD must be approved by the ER	I	А	R	dd/mm/yy
4.13		Maximum Dry Density	М	On the first day on a new treatment section, then 1 per 10,000m2 unless the material changes	NZS 4402.4.1.3	For analysis of DoC  To be done at the sampled MC, at hand squeze test MC and 1% above the hand squueze test on site	IANZ Report	Stabilising Contractor	MDD briqutte to be produced on site if travel time to lab > 30 minutes  Note that if the Stabilising Contractor notices changes in material then another one point DD at the hand squeeze test moisture content shall be carried out.	1	A	R	dd/mm/yy
4.14		Degree of Compaction (DoC)	н	5 per 1,000m2	NZS 4407.4.2.1 (DT full stabilising depth)	Average DoC ≥ 98% Minimum DoC ≥ 95%	IANZ Report	Stabilising Contractor		-	А	R	dd/mm/yy
4.15		Crossfall	Н	every 20m	Measurement	± 0.5% of specified crossfall measure 2m apart	Survey	Stabilising Contractor			А	R	dd/mm/yy
4.16		Stabilised width	Н	1 every 20m	Measurement	-20mm, +100mm	Survey	Stabilising Contractor			А	R	dd/mm/yy
4.17		Surface Shape	Н	every 20m	Measurement	< 10mm using 3m straight edge	Survey	Stabilising Contractor	Only required if the visual inspection appears unsatisfactory		А	R	dd/mm/yy
4.18	Finished Pavement	Surface Finish	н	Per Lot	Visual	Larger aggregate held in pace with a matrix of smaller aggregate     Smaller aggregate held in place by fine material     matrix does not displace under normal trafficking and/or sweeping	Survey	Stabilising Contractor	ER to be present at pre-seal inspection		A	R	dd/mm/yy
4.19		Roughness	н	Before Sealing	TNZ TM 7003 v1	100m rolling average ≤ 75 counts/km	Test Certificate	Contractor			Α	R	

				Construction Process:	Start RP			INSPECTION AND T	EST PLAN - VERSION CONTROL	0-IFC	1 - IFC	2 - IFC	3 - IFC	
WAKA KOTAHI NZ TRANSPORT AGENCY				Modified Basecourse Layer	Finish RP		Prepared by Pavement I	Design Lead:	Emile and Zyl	7/3/25				
	NZ TRANSPORT AGENCY	Downer		Desired Names T2M/ Times to N	Project Name: T2W - Tirau to Waiouru - Rehabilitation Works			on Manager:	Wayne Bowden	7/3/25				
		DOMING		Project Name: 12w - Hrau to v	valouru - Kenabilitatioi	1 WORKS	Reviewed by Surf./ Pavr	nt Manager:	Aiden Smith / Nick Schilov					
						ion of Modified Pavement Layers,	Approved Quality Lead.:		Hansel Feliciano	7/3/25				
Client's Re	ep. : Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL)	Contractor's Rep. : Wayne Bowden ( Rudani (PM)		NZTA M/4: Spec forBasecourse A Testing of Modified and Bound P		cedures for Direct and Indirect Tensile Strength	Approved by Design Lea	ıd:	Thorsten Froebel	7/3/25				
	(			resting of mounica and bound r	avenient materials		Issued by Project Direct	or	Chris Seath	7/3/25				
Item	Task/Activity/Description		Inspe	ection/Test		Acceptance Criteria	Record documents (QCP - Quality Control	Responsibility	Project Specific Notes / Instructions	R =	Chec Responsible, I, II	ked by nformed, A = App	rove	
	, , , , , ,	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method		Portal		,	Designer	Eng. Rep	Contractor	Date	
4.20	Part of Pre-Seal Inspection	Clegg Impact Value	Н	5 per 1000m2		CIV ≥ 50	CIV form - ConQA	Stabilising Contractor		1	А	R	dd/mm/yy	
4.21	(left in here and repeated in the Chipseal as it is part of the Pavement to Surfacing handover)	Degree of Saturation, DOS	М	5 per 1000m2	NZS 4407.4.2.2 and DOS calculation in NZTA B/5	aim for DOS ≤ 80%	IANZ report	Contractor	Report only	1	А	R	dd/mm/yy	
5.0. FINA	AL SIGN OFF													
5.01	Pavement Layer Signoff	Assessment of all test results for conformity	Н	Each Lot	Site Inspection	Reporting of any non-conforming results to Designer via NCR	NCR	Engineers Representative					dd/mm/yy	
Client Fina	al Inspection - the signature below verifies th	at this ITP has been completed in accord	ance with the	Specifications and verifies lot com	pliance.		Н	Hold Point	Work Shall not proceed past the HP until r	released				
Contracto	r's Rep Name:	Date:	W	Witness Point	An Inspection which must be witnessed				•					
Engineer's Rep. Name:					Date:	М	Monitor Point	by the Eng. Rep.  Intermittent monitoring of any stage of th	age of the work in progress by the Eng. Rep.					