					Start RP			INSPECTION AND TEST PLAN - VERSION CONTROL			В	С	0 - IFC
WAKA KOTAHI NZ TRANSPORT AGENCY		_		Modified Basecourse Layer	Finish RP		Prepared by Pavement Designer:		Thorsten Froebel	26/6/24	12/8/24	19/8/24	1/08/2024
		Downer •		F				ction Manager:	Wayne Bowden				2/09/2024
				Project Name: T2W - Tirau to W	aiouru - Rehabilitation	Works	Reviewed by Surf./ Pa	ovmt Manager:	Aiden Smith / Nick Schilov	27/6/24	19/8/24	30/8/24	2/09/2024
				Specifications: NZTA B/5: Specifications	tion for In-Situ Stabiisat	ion of Modified Pavement Layers,	Approved Quality Ma	nager.:	Graeme Stokes				2/09/2024
Client's Re	ep. : Engineers Rep Name	Contractor's Rep. : Contractor's Rep	Name			cedures for Direct and Indirect Tensile Strength	Approved by: Paveme	ents SME.:	Thorsten Froebel				3/09/2024
				Testing of Modified and Bound Pa		Issued by: Project Dir	ector	Chris Seath				3/09/2024	
							Record documents				Check	ed by	
Item	Task/Activity/Description		insp	ection/Test		Acceptance Criteria	(QCP - Quality	Responsibility	Project Specific Notes / Instructions	R =	Responsible, I, In	formed, A = Appr	ove
1.0. AGGR	EGATE AND BINDER OPTIMISATION /	ACCEPTANCE TESTING / DESIGN and D	RAWING	5									
1.01		Crushing Resistance	Н	1 per 10,000 m3	NZS4407:3.10	< 10% passing 2.36mm sieve at 130kN	IANZ report	Contractor		Α	1	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	1	R	dd/mm/yy
1.04	<u>Notes:</u> H = Hold point up to approval of Optimisation Testing	Quality of Fines, either PI or SE or 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 Pl and Cl applies	A	1	R	dd/mm/yy
1.05	M = Monitor during production	Broken Faces Content		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	O.	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	_	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	A	1	dd/mm/yy
1.08	Optimisation of Stabilising Agent(s)	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	ı	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	1	dd/mm/yy
1.10		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	1	dd/mm/yy
				•			•						
Client Final	Inspection - the signature below verifies the	nat this ITP has been completed in accorda	nce with th	ne Specifications and verifies lot com	pliance.		Н	Hold Point	Work Shall not proceed past the HP until reby the Eng. Rep.	eleased			
Contractor	s Rep Name:		Signature:			Date:	W	Witness Point	An Inspection which must be witnessed				
Engineer's Rep. Name:			Signature:			Date:	М	Monitor Point	by the Eng. Rep. Intermittent monitoring of any stage of the	work in progre	s hy the Eng Ren		

Professional Contraction Professional Contra					Construction Process:	Start RP	1		INSPECTION AND	TEST PLAN - VERSION CONTROL	Α	В	С	0 - IFC
Part	WAKA KOTAHI NZTRANSPORT AGENCY				14 15 15			Prepared by Paveme		T				1/08/2024
Mark 1			Daymar								20/0/24	12/0/24	15/0/24	2/09/2024
Section Content Cont			Downer -		Project Name: T2W - Tirau to W	on Works				27/6/24	19/8/24	30/8/24	2/09/2024	
The content of the co					Specifications: NZTA B/5: Specifica	tion for In-Situ Stabiisa	tion of Modified Pavement Layers,			· · · · · · · · · · · · · · · · · · ·	27/0/24	13/0/24	30/0/24	2/09/2024
According Processing Control P	Client's Re	n · Engineers Ren Name	Contractor's Rep. : Contractor's Rep.	Name	NZTA M/4: Spec forBasecourse Ag	gregate, NZTA T/19: Pro	-							3/09/2024
Teach Teac	Cheffe 3 Re	p Engineers help Hume	contractor s nep contractor s nep	realife	Testing of Modified and Bound Pa	vement Materials								3/09/2024
Part								issued by: 1 Toject bil	CCCO	Ciiris Seatii		Chec	ked by	3/09/2024
The first of American School S				Insp	ection/Test			Record documents			R =			rove
A SECOND BYTOWNED YEAR MAN (AND MY THAN 1997) Company of the property of t	Item	Task/Activity/Description					Acceptance Criteria	(QCP - Quality	Responsibility	Project Specific Notes / Instructions	er	de	tor	
Selective provided in the party of the party and provided in the party of the party of the party and provided in the party of the party of the party and provided in the party of the party			Detail of Activity / Test		Minimum Test Frequency			Control Portal			sign	ğ. Δ	ıtrac	Date
State Stat											ŏ	ū	Ō	
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## Professional Pr														
Session for mandage whether the production for the state griffer and shape as extracted in the state griffer a	2.01	Setout section	_	н	Prior to each section	Survey	Document existing furniture		Contractor			1	R	dd/mm/yy
Pro hose, drape and good roll good r								liles						
Pro hose, drape and good roll good r			-							Intention is to carry out only minor				
Pre-box, 20pc and proof to 10 Pre-box, 20pc and proof to 20 Pre-bo						Use grader's machine			Stabilising					
Pre-lave, dage and prior froil Extraction of the prior of stabilisation per section Statement export (Contractive orders and compaction order) while consecting	2.02		Pre-hoe to depth specified and shape as					N/A				Α	R	dd/mm/yy
Visual flores of 2- Visu		Pre-hoe, shape and proof roll		н	Prior to stabilisation per section	Visual check <u>or</u>								
2.00 Compaction C			statement and/or IFC drawings and proof	f				Stahilising						
Flateau Density Test H Don't aday per site and then 1 per 10,000m2 unless material or and conditions change an	2.02								Stabiliisng			^		dd/mm/yy
Pilateau Density Test H On first day per site and then 1 per 10,000m2 unless makerial or anvil conditions change Compaction Compaction Maximum Dry Density M M Don't first day per site and then 1 per 10,000m2 unless makerial or anvil conditions change To establish suitability of rollers and compaction model pattern to achieve Pila MoD Model program to the achieved than the Model pattern to achieve Pila MoD Model program to the achieved by the Ris I A R R R R R R R Compaction Model program to the designer travel time to lab 3-30 minutes Mode that the Sabblishing Contractor Note that If the Sabblishing Contractor Set MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer test or site MC and 3th above the hand squarer models applied to minimal to line models pattern to achieve the hand squarer test MC and 3th above the hand squarer models applied to minute to line models and speal minute Min Contractor Min Contracto	2.03								Contractor			^	, ,	uu/iiiii/yy
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Changes Cha	2.05			М			test MC and 1% above the hand squueze test or	IANZ Report			1	Α	R	dd/mm/yy
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Contractor's Rep Name: Signature: Date: W Witness Point An Inspection which must be witnessed by the Eng. Rep.	Client Final	Inspection - the signature below verifies t	hat this ITP has been completed in accordan	Н	Hold Point	Work Shall not proceed past the HP until r	released							
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	Engineer's F	Rep. Name:		Signature:			Date:	М	Monitor Point		e work in progres	s by the Eng. Rep		
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WAKA KOTAHI NZ TRANSPORT				Construction Process: Start RP			INSPECTION AND '		TEST PLAN - VERSION CONTROL	Α	В	С	0 - IFC
				Modified Basecourse Layer	Finish RP		Prepared by Paveme	ent Designer:	Thorsten Froebel	26/6/24	12/8/24	19/8/24	1/08/2024
		Downer					Reviewed by Constr	uction Manager:	Wayne Bowden			-	2/09/2024
		DOMILEI		Project Name: T2W - Tirau to W	/aiouru - Rehabilitatio	n Works	Reviewed by Surf./ F	Pavmt Manager:	Aiden Smith / Nick Schilov	27/6/24	19/8/24	30/8/24	2/09/2024
				Specifications: NZTA B/5: Specific	ation for In-Situ Stabiisat	ion of Modified Pavement Layers,	Approved Quality M	anager.:	Graeme Stokes				2/09/2024
Client's	Rep. : Engineers Rep Name	Contractor's Rep. : Contractor's Rep	Name		cedures for Direct and Indirect Tensile Strength	Approved by: Paven	nents SME.:	Thorsten Froebel				3/09/2024	
				Testing of Modified and Bound Pa	avement Materials		Issued by: Project Di	rector	Chris Seath				3/09/2024
			Insp	ection/Test			Record documents			R =		ked by nformed, A = App	rove
Item	Task/Activity/Description	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method	Acceptance Criteria	(QCP - Quality Control Portal	Responsibility	Project Specific Notes / Instructions	Designer	Eng. Rep	Contractor	Date
.o. BITU	JMEN STABILISATION OPERATION												
3.01		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
3.02	Stabilising Agents	Cement, GP	М	Per Batch	NZS 3122	Conform to Specification	Certificate in contractor's site folder	Stabilising Contractor			I	R	dd/mm/yy
3.03		Bitumen (130/150)	М	Per Batch	M/1	Conform to Specification	Certificate in contractor's site folder	Stabilising Contractor			ı	R	dd/mm/yy
3.04	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			ı	R	dd/mm/yy
3.05	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
3.06	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
3.07	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
3.08	(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			I	R	dd/mm/yy
3.09		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
3.10	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			ı	R	dd/mm/yy
3.11		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			1	R	dd/mm/yy
3.12	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
3.13	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

				Construction Process:	Start RP			INSPECTION AND	TEST PLAN - VERSION CONTROL	Α	В	С	dd/mm/yy dd/mm/yy
WAKA KOTAHI NZ TRANSPORT AGENCY		_	1	Modified Basecourse Layer Finish RP			Prepared by Pavement Designer:		Thorsten Froebel	26/6/24	12/8/24	19/8/24	1/08/2024
_	NZ TRANSPORT AGENCY	Downer •	I control	Project Name: T2W - Tirau to W	Valaum. Bahahilitatia	n Works	Reviewed by Construc	ction Manager:	Wayne Bowden				2/09/2024
	8072	DOWNE		Project Name: 12w - Ilrau to w	raiouru - Kenabilitatioi	n works	Reviewed by Surf./ Pa	avmt Manager:	Aiden Smith / Nick Schilov	27/6/24	19/8/24	30/8/24	2/09/2024
		Specifications: NZTA B/5: Specification for In-Situ Stabilisation of Modified Pavement Layers, Contractor's Rep.: Contractor's Rep Name Specifications: NZTA B/5: Specification for In-Situ Stabilisation of Modified Pavement Layers, NZTA M/4: Spec forBasecourse Aggregate, NZTA T/19: Procedures for Direct and Indirect Tensile Strength Approved Quality Manager.: Approved by: Pavements SME.:		Graeme Stokes		ı	1	2/09/2024					
Client's Rep. : Engineers Rep Name		Contractor's Rep. : Contractor's Rep	Name	NZTA M/4: Spec forBasecourse Ag Testing of Modified and Bound Pa		cedures for Direct and Indirect Tensile Strength	Approved by: Pavem	ents SME.:	Thorsten Froebel				3/09/2024
Client's Rep. : Engineers Rep Name			Testing of Modified and Bound Pa		Issued by: Project Dire	ector	Chris Seath				3/09/2024		
			lana	pection/Test							Check	ked by	
				ection/ rest			Record documents			R =	Responsible, I, In	formed, A = Appr	ove
Item	Item Task/Activity/Description	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency	Inspection / Test method	Acceptance Criteria	(QCP - Quality Control Portal	Responsibility	Project Specific Notes / Instructions	Designer	Eng. Rep	Contractor	Date
3.14	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.	ı	А	R	dd/mm/yy
3.15	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	ı	A	R	dd/mm/yy
3.16		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.	ı	A	R	dd/mm/yy
3.17		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		I	А	R	dd/mm/yy
3.18	Part of Pre-Seal Inspection	Clegg Impact Value	Н	5 per 1000m2		CIV ≥ 50	CIV form - ConQA	Stabilising Contractor		1	Α	R	dd/mm/yy
3.19	(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	I	А	R	dd/mm/yy
Client Fina	al Inspection - the signature below verifies the	at this ITP has been completed in accorda	Н	Hold Point	Work Shall not proceed past the HP until r by the Eng. Rep.	released							
Contracto	r's Rep Name:		Signature:_			Date:	W	Witness Point	An Inspection which must be witnessed				
Engineer's	Rep. Name:		Signature:			Date:	M	Monitor Point	by the Eng. Rep. Intermittent monitoring of any stage of th	ne work in progres	s by the Eng. Rep.		
5	• • •		5				I "			F0. CO.	,		

					Start RP			INSPECTION ANI	TEST PLAN - VERSION CONTROL	Α	В	С	0 - IFC
	WAKA KOT NZ TRANSPORT AGENCY	AHI		on Process:	Finish RP		Prepared b	Pavement Designer:	Thorsten Froebel	26/6/24	12/8/24	19/8/24	1/08/2024
AGENCY		\mathbf{n}	owner •				Reviewed b	y Construction Manager:	Wayne Bowden				2/09/2024
			Milel	Project Name: T2W - Tirau to Waiouru - Rehabilitation Works			Reviewed b	y Surf./ Pavmt Manager:	Aiden Smith / Nick Schilov	27/6/24	19/8/24	30/8/24	2/09/2024
				Specification Pavement		5: Specification for In-Situ Stabiisation of Modified	Approved C	Quality Manager.:	Graeme Stokes				2/09/2024
Client's Re	ep. : Engineers Rep N	Contract	or's Rep. : Contractor's Rep Name			secourse Aggregate, NZTA T/19: Procedures for Direct	Approved b	y: Pavements SME.:	Thorsten Froebel				3/09/2024
				and Indirect Tensile Stre Materials		rength Testing of Modified and Bound Pavement	Issued by: F	roject Director	Chris Seath				3/09/2024
			Inspection/Test				Record document			R = Resp	Check onsible, I, In	ed by	= Approve
Item	Task/Activity/Desc	Detail of		Minimum	Inspection	Acceptance Criteria	s	Responsibility	Project Specific Notes / Instructions		1		Прриоте
item	ription	Activity /	Action	Test	1	Acceptance enteria	(QCP - Quality Control	Responsibility	Troject specific Notes / instructions	Designer	. Rep	ract	Date
		Test	(Hold, Monitor, Witness)	Frequency	Test method					Des	En 8.	Contractor	ă
4.0. Testir	ng and Sgnoff				method		-						
4.01		Crossfall	н	every 20m	Measurem ent	± 0.5% of specified crossfall measure 2m apart	Survey	Stabilising Contractor			А	R	dd/mm/yy
4.02		Stabilised width		1 every 20m	Measurem ent	-20mm, +100mm	Survey	Stabilising Contractor			А	R	dd/mm/yy
4.03		Surface Shape	Н	every 20m	Measurem ent	< 10mm using 3m straight edge	Survey	Stabilising Contractor	Only required if the visual inspection appears unsatisfactory		A	R	dd/mm/yy
4.04	Finished Pavement	Surface Levels	н	every 20m	Measurem ent	-5mm, +15mm	Survey	Stabilising Contractor			A	R	dd/mm/yy
4.05		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		А	R	dd/mm/yy
4.06		Roughness	н	Before Sealing	TNZ TM 7003 v1	100m rolling average ≤ 75 counts/km	Test Certificate	Contractor			А	R	
4.07	Pavement Layer Signoff	Assessmen t 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 Final	Inspection - the signa	ture below	verifies that this ITP has been comple	ted in accord	ance with th	ne Specifications and verifies lot compliance.	Н	Hold Point	Work Shall not proceed past the HP un	til released	•		
							w		by the Eng. Rep.				
Contractor'	Contractor's Rep Name: Signature: Date:							Witness Point	An Inspection which must be witnessed by the Eng. Rep.	1			
Engineer's	Rep. Name:		Signature:			Date:	М	Monitor Point	Intermittent monitoring of any stage of	the work ir	progress by	the Eng. Re	≥ p.