

<div><div><div><div></div><div>WAKA KOTAHI</div><div>NZ TRANSPORT AGENCY</div></div></div><div><div>Downer</div></div></div>		<div>Construction Process:</div> <div>Start RP</div> <div>Finish RP</div>		<div></div>		INSPECTION AND TEST PLAN - VERSION CONTROL				0	1	2	3
						Prepared by Project Engineer:		PE name		dd/mm/yy			
						Reviewed by Construction Manager:		PM name		dd/mm/yy			
Client's Rep. : Engineers Rep Name		Contractor's Rep. : Contractor's Rep Name		Project Name: Tirau to Waiouru Rehabilitation Acceleration Programe (TWRAP) Works		Reviewed by Surf./ Pavmt. Manager:		Surfacing or Pavement Manager		dd/mm/yy			
						Approved Quality Manager.:		Nominated by Group Quality Manager		dd/mm/yy			
						Approved Pavements SME.:		Responsible Group SME		dd/mm/yy			
				Specifications: NZTA M23, NZTA B/2, Wire Rope Safety Barrier		Issued by: Project Engineer:		PE name		dd/mm/yy			
Item	Task/Activity/Description	Inspection/Test				Acceptance Criteria	Record documents (QCP - Quality Control Portal)	Responsibility	Project Specific Notes / Instructions	Checked by R = Responsible, I, Informed, A = Approve			
		Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production or 1,500m2)	Inspection / Test method					Sire Engineer	Eng. Rep / NZTA	Contractor	Date
1.0. GUARDRAIL HARDWARE ACCEPTANCE													
1.01	Guardrail Hardware	MASH Tested	H	1 Test per material per source	Visual / Photo	AS/NZS3845	Data Sheet / Delivery docket	Contractor		A	I	R	dd/mm/yy
1.02	Labelling	All components labelled with AS/NZS3845	H	1 Test per material per source	Visual / Photo	AS/NZS3845	Product/ supplier certification	Contractor		A	I	R	dd/mm/yy
2.0. CONSTRUCTION													
2.01	Leading and trailing treatments	Start and End locations marked out	W	All barrier lengths	Visual	Positions in agreed marked out location	Check sheet	Contractor	Note: Terminal excavation measured for acceptance against supplier diagram, Anchor bracket installed as per supplier specification and Concrete poured and screened flush or slightly proud of seal.	A	I	R	dd/mm/yy
2.02		Correct type	W	All barrier lengths	Visual	Types as specified on drawings	Check sheet	Contractor		A	I	R	dd/mm/yy
2.03	Excavate WRSB Post Holes	Excavate post holes to a depth as specified in the design drawing	M	Where every post will be installed	Measure	Site Engineers Approval	Photo / Measurement Sheet	Contractor	Sides of excavation shall be parallel and not collapsing	A	I	R	dd/mm/yy
2.04	Cast concrete into WRSB pile	Check condition of finished pile	M	All piles	Visual / Photo	Top of pile is level and Flush with ground at front face of pile	As per manufacturer's checklist	Contractor		A	I	R	dd/mm/yy
2.05	Install WRSB	Install MashFlex post at a depth specified in the design drawing and above finished road level	H	Where every post will be installed	Visual / Photo	Site Engineers Approval	As per manufacturer's checklist	Contractor		I	A	R	dd/mm/yy
2.06		Cables at correct position as per manufacturer's installation manual	M	All post	Visual / Photo	Cables are in or on the seating position	As per manufacturer's checklist	Contractor		A	I	R	dd/mm/yy
2.07		Ensure posts have plastic cap inserted into the post and insert MashFlex Plug into hole on side of cap.	M	All post	Visual / Photo	100%	As per manufacturer's checklist	Contractor		A	I	R	dd/mm/yy
2.08		All cables are tensioned correctly	M	All barrier lengths	Visual / Photo	As per manufacturer's installation manual	Photo	Contractor		A	I	R	dd/mm/yy
									As per manufacturer's checklist				

Client Final Inspection - the signature below verifies that this ITP has been completed in accordance with the Specifications and verifies lot compliance.							H	Hold Point	Work Shall not proceed past the HP until released by the Eng. Rep.			
							W	Witness Point	An Inspection which must be witnessed by the Eng. Rep.			
							M	Monitor Point	Intermittent monitoring of any stage of the work in progress by the Eng. Rep.			
Contractor's Rep Name: _____							Signature: _____			Date: _____		
Engineer's Rep. Name: _____							Signature: _____			Date: _____		