


		INSPECTION AND TEST PLAN		ITP no:		Z1-SR-PAV		
						Project: NZTA 5363 CIP SH30 Te Ngae Road Corridor-Iles Rd to Coulter Rd		Associated Docs				
						Construction Process: Side Road Pavement		Rev number:		V1		
Client: NZTA		Head Contractor		Subcontractor		Specification: 600 - Pavement						
Item	Task/Activity/Description	Inspection/Test				Acceptance Criteria	Record Document	Responsibility	Comments	Checked by		
		Detail of Activity	Action (Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production or 2,500m2)	Inspection / Test method					Engineer	Contractor	Date
600	Pre-construction / Preliminary Compliance Requirements											
600.1	Method Statement Development / Job Safety Analysis / Enviro Site Specific Plans		H	Prior to Construction		Method Statement and JSEA Completed and signed by relevant authority		Downer				
600.2	Drawings and Specification		H	Prior to Construction		DWG's and Specifications are of For Construction and latest revision. Reviewed and approved by Designer and Client.		Downer				
600.3	Set out		H	Prior to Construction		Set out as per latest Design Model / For Construction Drawings.		Designer				
600.4	Material Approvals	Submit testing data for the following materials: - AP65	H	Prior to Construction	Quarry Testing Data	Material approvals to be sent to the Engineer. Refer Project Specs and Drawings; • AP65: o Crushing Resistance < 100kN o Weathering Quality Index of A,AB, AC, BA, BB or CA o Sand Equivalent ≥ 25 if > 4% passing 75um sieve o CBR minimum 40 using heavy compaction o Grading		Designer				
600.5	Material Approvals	Submit testing data for the following materials: - AP40	H	Prior to Construction	Quarry Testing Data	Material approvals to be sent to the Engineer. Refer Project Specs and Drawings; • AP40: o Crushing Resistance <10% fines passing 2.36mm under 130 KN load o Weathering Quality Index of AA,AB, AC, BA, BB or CA o Sand Equivalent ≥ 40 o Soaked CBR ≥ 80% o Solid Density > report value only o Determination of MDD & OWC > report value only o Broken Face Content : each of the three aggregate fractions between the 37.5mm and 4.75mm sieves shall not be less than 70% by weight and shall have two or more broken faces o Particle size distribution / Grading 100% passing 37.5mm 66 - 81% passing 19mm 43 - 57 passing 9.5mm 28 - 43 passing 4.75mm 19 - 33 passing 2.36mm 12 - 25 passing 1.18mm 7 - 19 passing 600µm 3 - 14 Passing 300µm 0 - 10 passing 150µm 0 - 7 passing 75µm Plasticity Index : Basecourse passing the 425µm sieve shall not be greater than 5 when the aggregate is tested according to NZS 4407 : 1991, Test 3.4 Plasticity Index Test. Clay Index : Basecourse passing the 75µm sieve shall not be greater than 3 when the aggregate is tested according to NZS 4407: 1991		Designer				
600.6	Identification of Underground Services		H	Prior To Construction		Ensure underground services are positively identified and asbuilt. Where this interferes with design permanent works, Service provider and Designer to be notified immediately.	InEight Records	Contractor				

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Subgrade Construction												
600.7	Subgrade Inspection	Subgrade Levels	M	20m centres	Visual Inspection	Cut subgrade to 355mm below finished level. String line tolerance to be within +0mm/-30mm (i.e. 0mm high, 30mm deep)	QC Sheets	Contractor				
600.8		Bearing Strength	H	Inferred CBR, 5 tests per 500m ² 1 per 20m	Scala Panatrometer	Scala (bearing Strength on insitu subgrade) to depth 500mm, with the following requirement to be achieved; ≥ 5 blows per 100mm - No undercut 4 blows per 100mm - 100mm 3 blows per 100mm - 175mm 2 blows per 100mm - 275mm <1 blow per 100mm - 500mm undercut	QC Sheets (Scala Sheet)	Contractor	Scala results to meet or exceed per below: 0mm - 100mm - ≥ 3 blows per 100mm 100mm - 200mm - ≥ 2 blows per 100mm 200mm - 300mm - ≥ 2 blows per 100mm 300mm - 400mm - ≥ 1 blow per 100mm 400mm - 500mm - ≥ 1 blow per 100mm			
600.9		Proof Roll	H	One per lot	Visual Inspection	Proof roll – Check for uniformity, soft areas to be undercut 200mm and backfilled with recycled pavement, AP40 Hardfill or AP65.	(Scala Sheet)	Contractor				
Subbase Construction												
600.10	Finished Level	String line or equivalent	H	20m centres each side	Stringline, tape measure	Layer Finished Level – String Line, each lane, Tolerance: +5mm/-25mm	QC Sheets	Contractor				
600.11	Compaction	Basecourse Compaction	M	Direct Transmission NDM (1 per 200m ²)	NDM	Mean ≥ 95% MDD, Min ≥ 92%	QC Sheets	Contractor				
Basecourse Construction												
600.12	Finished Level	String line or equivalent	H	20m centres each side	Stringline, tape measure	Layer Finished Level – String Line, each lane, Tolerance: +15mm/-5mm	QC Sheets	Contractor				
600.13	Compaction	Basecourse Compaction	M	Direct Transmission NDM (1 per 200m ²)	NDM	Mean ≥ 98% MDD, Min ≥ 95%	QC Sheets	Contractor				
600.14	Degree of Saturation	Basecourse Compaction	M	Direct Transmission NDM (1 per 200m ²)	NDM	< 60% (or 80% on consultation with the pavement designer)	QC Sheets	Contractor				
Close Out												
600.15	Collate above documentation	Document review	H	Each ITP	Review		N/A	Contractor				
600.16	As-built drawings	Survey	H	At completion of construction	Asbuilts to be submitted at the completion of construction	-As-built to be submitted at the completion of construction -Information to be captured: -Maintain Redline drawings through works.	N/A	Contractor				
600.17	RAMM Data		H		Info to be submitted by the completion of project construction	-Information to be captured:	N/A	Contractor				

Client Final Inspection - the signature below verifies that this ITP has been completed in accordance with NZTA Specifications and verifies lot compliance.

 Contractor's Rep Name: _____

 BBO Engineers Rep Name: _____

Date: _____

 Date: _____

H	Hold Point
W	Witness Point
M	Monitor Point