Fulton Hogan	Inspection and Test Plan - Control and Supervision of the Works	Doc ID: FH-ZU2-QU-ITP031 Rev: 1

Client: APAM (MELBOURNE AIRPORT)	**Contract No:** CP14038	**Prepared By:** Jihad Barbar
Project: Taxiway Zulu 2.0	**Reviewed By:** Jamal Khodr	**Date:** 18/09/24
Construction Process: ALER 3 Onsite Concrete	**Approved By:** Turker Arslan	**Date:** 25/09/24
Specifications: Specifications as per Drawings		
Structure / Component: Concrete Footings, Slabs & Aprons		

Lot No:	Lot Details:	Lot size/Quantity:	Date:

Item No.	Task/Activity Description	Inspection/Test					HP/ WP/ AP/ IP/ TP/ SCP	Responsibility FH Engineer Superintendent Surveyor Foreman	Checked by:		
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			Fulton Hogan	Beca	Date
1.0	**Preliminaries**										
1.1	The current revision drawings are being used including subcontractors copy.	Prior to Start	Current revision drawing is being used (including the subcontractors copy). Current revision to be obtained via Aconex or ACC	Drawings and drawing registers	Verify	Up to date drawing sets and this ITP signed	HP*	FH Engineer			
1.2	Implementation of all measures and controls	Prior to Start	All necessary measures and controls being implemented, that is CEMP, TMP, SWMS, & WP	CEMP, TMP, SWMS, & WP	Verify	Site and office Inspection	HP*	FH Engineer			
1.3	Excavation Permit	Prior to Start	Excavation Permit issued by APAM obtained prior to any excavation on site.	APAM Excavation Permit	Verify	Proof of & permit ITP sign	HP*	FH Engineer			
2.0	**Supply of Materials**										
2.1	Reinforcement	Pre-commencement	**HOLD POINT** Test Certificates demonstrating compliance of the reinforcement with the requirements of AS 3600	Drawings and Specification	Verify	Aconex Reference	**HP**	FH Engineer / **Principals Representative**			
2.2	Concrete Mix Designs	Each Lot	**HOLD POINT** Mix design to be submitted to contract administrator for review and acceptance.	Drawings ZULU-BECA-014-DWG-00201	Verify	Aconex Reference	**HP**	FH Engineer / **Principals Representative**			

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				ZULU-BECA-030-DWG-20001							
2.3	Review of Curing Regime	Each Lot	**HOLD POINT** Concrete curing regime to be reviewed and approved by the contract administrator prior to use	ZULU-BECA-030-DWG-20001	Verify	Aconex Reference	**HP**	FH Engineer / **Principals Representative**			
3.0	**Construction\Erection of Formwork**										
3.1	Setout	Each Lot	Setout completed and conformance with Beca IFC Drawings.	Drawings	Verify	Survey Report	SCP	FH Engineer Surveyor			
3.2	Excavate	Each Lot	**WITNESS POINT** Excavation depth shall be as per specified or as shown on Drawings to accommodate structures. Principals representative to be notified for at the completion of excavations for inspection prior to any blinding being poured.	Specifications as per Drawings	Verify	This ITP signed	**WP**	FH Engineer			
3.3	Confirm Ground	Each lot	**HOLD POINT** Completion of excavation and inspection of subgrade materials. No soft spots, unsuitable material. Confirm ground bearing pressure	Drawing 00201 Note E40	Verify	DCP Test Results	**HP**	FH Engineer			

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			Density Testing to be carried put at a minimum of 1 Test for each 100m^2 area per layer of compacted excavations for footings & concrete works								
3.4	Concrete Sub-Base	Each Lot	Blinding layer is installed as per drawings	Drawings	Visual Inspection	This ITP Signed	**HP***	Site Engineer / Foreman			
3.5	Formwork	Each Lot	Formwork / Reverse Shall conform to shapes, lines, levels and dimensions of the concrete shown or indicated on the Drawings.	Specifications as per Drawings	Verify	This ITP Signed	IP	FH Engineer Surveyor			
3.6	Penetrations/Cast in items	Each Lot	Penetrations/cast in items are present in the formwork.	Drawings	Verify	This ITP Signed	IP	FH Engineer Surveyor			
4.0	**Reinforcement**										
4.1	Reinforcement installation	Prior to concrete pour	Pre-Pour Checklist Completed: • Position and spacing check and recorded. • Cover checked and recorded.	Specifications and drawings	Verify	Pre-pour inspection List CLA31A	IP HP*	FH Engineer			

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			• Reinforcing supports checked and recorded. • Laps at required length. • Penetrations/cast in items								
5.0	**Pre-pour Planning and Inspections and Placement (1st Pour)**										
5.1	Pre-pour Inspection	Prior to concrete pour	**HOLD POINT** Superintendent or Engineer to conduct pre-pour inspection prior to concrete pour Principals representative to inspect formwork and steel fixing	Specifications and Drawings	Verify	Pre-pour inspection List CLA31A	**HP**	FH Engineer / **Principals Representative**			
5.2	Pour in-situ	Each Lot	Concrete shall be placed within 90mins from batching. All concrete supplied for concrete structures shall be subject to project control testing in accordance with AS 1379.	Specifications and drawings	Verify	This ITP signed	IP	FH Engineer			
5.3	Concrete Testing – Compressive Tests	Each Lot	Composite samples to be taken in accordance with AS 1012.1. 2 – 7 Day cylinder and 2 – 28 day cylinders to be taken. Frequency of testing shall be one sample taken either every 50m3 or	Drawing 00201 Note 51. AS 1012.1 AS 1012.9	Verify	Concrete Testers Sheet/Results	**TP**	FH Engineer			

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			once per day, whichever yields a higher frequency.								
5.4	Concrete Slump	Each Truck	Slump test is required for each load per day	Drawing 00201 Note 51.	Verify	Concrete Testers Sheet/Results	**TP**	FH Engineer			
5.5	Finishing & Curing	Each Lot	Concrete to be vibrated to ensure compaction and air voids removed. Screed finish required on exposed surfaces. Concrete shall be moist cured or coated by an approved curing compound for a period not less than seven days unless approved by the Superintendent.	Specifications and drawings	Verify	This Signed ITP	IP	FH Engineer			
6.0	**Post Pour Details and Inspections**										
6.1	Removal of Formwork	Each Lot	Forms shall remain and be maintained firmly in place until the concrete has attained the necessary strength to support its own weight.		Verify	This ITP signed	IP	FH Engineer			
6.2	Review of Test Results	Each Lot	Review of 7 day and 28 day test certificates	Drawing 00201 Note 52.	Verify	Aconex Reference	**HP**	FH Engineer / **Principals Representative**			
Final Inspection											

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On behalf of Fulton Hogan it is hereby certified that the Works represented by the items of work listed have been tested in accordance with the Project Quality Plan and conform in all respects with the requirements of the Contract.											
Print Name:			**Position:**				**Signature:**		**Date:** / /		

Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	**IP**	Inspection point	Formal Inspection to be done and recorded
HP*	Fulton Hogan Hold Point	Work shall not proceed past the HP* until released by Fulton Hogan	**TP**	Test Point	Product compliance test to be undertaken and recorded/reported
WP	Witness Point	An inspection which must be witnessed by the Superintendent	**SCP**	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Superintendent			

Notes	