

Client: Melbourne Airport

Contract No: CP14038-01

Prepared By: Jihad Barbar

Project: Taxiway Zulu

Reviewed By: Jamal Khodr

Date: 12/07/24

Construction Process: AGL Boring Installation

Approved By: Giuliano Follacchio

Date: 12/07/24

Specifications: ZULU-BECA-001-SPC-00004

Structure / Component: AGL

Lot No:

Lot Details:

Lot size/Quantity:

Date:

Item No.	Task/Activity Description	Inspection/Test					HP/ WP/ AP/ IP/ TP/ SCP	Responsibility	Checked by:				
		Frequency	Acceptance Criteria	Reference Documents	Inspection/ Test Method	Record of conformity		Project Engineer Principal's Rep. Surveyor Foreman	Subcontr-actor	Principal's Rep.	FH	Date	
1.0	Preliminary Activities – Permits, Documentation, Approvals, Survey Documentation												
1.1	Check for correct documentation	Prior to commencing activity	Ensure that all employees and subcontractors are: - using the correct and complete set of drawings. - all drawings are the latest revision.	Drawings / Aconex Register	Verify	Drawings and drawing registers	HP*	Project Engineer					
1.2	Implementation of all measures and controls	Prior to commencing activity	All necessary measures and controls being implemented, that is PSP, EMP, TMP, SWMS & WP.	PSP, EMP, TMP, JSEA, SWMS, WP	Visual inspection	This ITP signed	HP*	Project Engineer					
1.3	Definition of the work area (survey)	Prior to commencing activity	Work area has been cleared and surveyed (marked on site). Limits of excavation clearly defined.	Drawings	Visual inspection	This ITP signed	HP*	Project Engineer / Surveyor					
1.4	Material Submissions	Prior to commencing activity	- Ensure material submissions for the conduits and grout are submitted	ZULU-BECA-001-SPC-00003 cl. 3.4 AS 1477 AS 2053	Verify	Aconex reference This ITP signed	HP	Project Engineer / Principal's Representative					

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1.5	Methodology	Prior to commencing activity	Prepare and implement a Methodology that includes the following at a minimum: <ul style="list-style-type: none"> - Full details of the steps to be taken for the underbore works; and - Details of equipment to be used. This must be submitted at least 7 days prior to the commencement of site work	ZULU-BECA-001-SPC-00004	Verify	This ITP Signed	HP	Project Engineer / Principal's Representative				
1.6	Locate and prove existing services	Prior to commencing activity	<ul style="list-style-type: none"> - Location of services to be found and marked on the ground within the works; - Contractor to obtain excavation permit from APAM prior to any demolition works. - Services located within the works area to be exposed/proven, recorded as survey data and also on a service plan which is to be attached to the Excavation Permit. 	ZULU-BECA-001-SPC-00004 cl. 3.15	Verify	Melbourne Airport Excavation Permit	HP*	Project Engineer / Surveyor				
2.0	Construction											
2.1	Excavate trenches for Entry and Exit Pits	Each lot	<ul style="list-style-type: none"> - Trenches for entry and exit pits shall be excavated to the width and depth required enabling construction of the conduits to the requirements specified on the drawings. - The level at the bottom of the trench shall not be above the required level at any point. - Any over excavation under pavements shall be restored using 5MPa lean mix concrete in conjunction with the embedment. 	Drawings ZULU-BECA-001-SPC-00004 cl. 3.6	Visual inspection	This ITP signed	IP	Project Engineer / Foreman				
2.2	Existing services crossing new conduits	Each lot	<ul style="list-style-type: none"> - Only approved methods of excavation that has been approved by the Principal's Representative shall be used. 	WMS002 – Working Near	Visual inspection	As-built survey report	SCP	Project Engineer / Surveyor				

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			- Location, level and configuration of existing service crossing to be recorded in as built documentation prior to backfill (including CAD model file)	Existing Services								
2.3	Survey as-built	Prior to backfilling each lot	Surveyor to pick up completed conduit runs	FH QMP	Verify / Inspection	Survey report	SCP / IP	Project Engineer / Surveyor				
2.4	Cover	Each lot	Services installed under road and taxiway pavements and shoulders by under boring must have a minimum cover below the surface as shown in the drawings. Notify the Contract Administrator at the following stages of construction: - At setting up for the commencement of drilling; and - At completion of drilling prior to connection of ducting to pits and backfilling	Drawings ZULU-BECA-001-SPC-00004	Verify	Test report Aconex reference This ITP signed	HP	Project Engineer / Principal's Representative				
2.5	Conduit draw cord	Each lot	Each duct way in each duct bank shall be fitted with a single jointed length of draw cord of a length equal to the length of the duct plus 4m. The draw cord shall be nylon rope and be 6mm in diameter, blue in colour. The ends of the rope shall be coiled at the bottom of each pit or wound around a stake.	ZULU-BECA-001-SPC-00004 cl. 3.10	Visual	This ITP signed	IP	Project Engineer / Foreman				
2.6	Grout	Each Lot	1. Verify that pulling back of 63mm diameter grout lines are limited to 10m. 2. Measure volume of grout used per pull back to identify where full encasement may not have occurred.	DCWC Mgt-CONTIN-000853	Verify	This ITP signed	IP	Project Engineer				

	Inspection and Test Plan - Control and Supervision of the Works	Doc ID: FH-ZU2-QU-ITP039 REV: 0
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2.7	Bore Logs	Each Lot	Submit bore logs for the underbore	ZULU-BECA-001-SPC-00004	Verify	This ITP signed JLM Borelog	HP*	Project Engineer				

Final Inspection The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality system Procedures and verifies lot compliance with specifications.				
Print Name:	Position:	Signature:	Date: / /	

Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Principal's Representative	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 Principal's Representative	SCP	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Principal's Representative			

Notes	
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