

	Inspection and Test Plan - Control and Supervision of the Works	Doc ID: FH-ZU2-QU-ITP030 REV: 0
Client: Melbourne Airport	Contract No: CP14038-01	Prepared By: Jihad Barbar
Project: Taxiway Zulu	Reviewed By: Jamal Khodr	Date: 17/09/2024
Construction Process: Groundworks	Approved By: Turker Arslan	Date: 25/09/2024
Specifications: ZULU-BECA-001-SPC-00005, Drawings		
Structure / Component: Electrical/Comms, Stormwater, Sanitary Drainage and Water		

Lot No:	Lot Details:	Lot size/Quantity:	Date:
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Item No.	Task/Activity Description	Inspection/Test					HP/ WP/ AP/ IP/ TP SCP	Responsibility Project Engineer Principal's Rep. Surveyor Foreman	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection/ Test Method	Record of conformity			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. Pits & trenches all marked out prior to excavation commencing	Drawings	Visual inspection	This ITP signed	HP*	Project Engineer / Surveyor				
1.4	Material submissions and pipe compliance	Prior to commencing activity	Material submission of: <u>Electrical</u> - Ensure uPVC conduits comply with AS 1477 or equivalent AS 2053 - Shall be heavy duty, orange for electrical services and white for communication services - Ensure pipe diameter is correct as per drawings	Drawings ZULU-BECA-001-SPC-00004 CI. 3.4 ZULU-BECA-001-SPC-00005	Verify	Aconex Reference This Signed ITP Building Engineering ITC	HP	Project Engineer / Principal's Representative				

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			<u>Stormwater/Sanitary Drainage – Below Ground</u> - uPVC Non Pressure Pipes shall be DWV MIN SN8 Solvent Welded to AS 1462 with an environmental product - uPVC Pipe shall be SN10 SWJ As per <i>DCWC Mgt-RTRFI-001317</i> <u>Cold Water – Below Ground</u> - Polyethylene pipe shall be used conforming to AS 4130 & 4131	Table C1710-A AS1477 AS 2053 AS 1462 AS 4401 AS 3500.3 AS 4130 AS 4131								
1.5	Check bedding material compliance	Prior to commencing activity	<u>HOLD POINT</u> <u>Electrical</u> Ensure that the conduit bedding material is non-plastic granitic sand complying with Table 3-1 and 3-2 under cl. 3.8.3.3 of the Works Specification <u>Stormwater/Sanitary Drainage/Water</u> Ensure Bedding Material is Well Graded Manufactured Sand to VicRoads Specification 407 Clause 407.03(f).	ZULU-BECA-001-SPC-00004 cl. 3.8.3.3 ZULU-BECA-030-DWG-00201 Note D03	Verify	Aconex Reference This Signed ITP Building Engineering ITC	HP	Project Engineer / Principal's Representative				
1.6	Material Submissions and Shop Drawings	Prior to commencing activity	Submission of: - Spel Puraceptor for approval prior to commencing works. - Septic Tank & Sewer Disposal Unit Design - Pre-cast Pits for approval prior to commencing works -Precast headwalls	ZULU-BECA-001-SPC-00005 Drawings C1700 cl. 3a	Verify	Aconex Reference Building Engineering ITC	HP	Project Engineer / Principal's Representative				

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				AS 1546.1-2008.2								
1.7	Permits & relevant approvals obtained	Prior to commencing activity	<u>Excavation Permit</u> <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. Service conduits shall be protected from damage due to subsequent construction operations as required using whatever measures are necessary. Any damaged conduits shall be removed and replaced at no cost to the Principal.	ZULU-BECA-001-SPC-00004 cl. 3.15 WMS-002	Verify	Melbourne Airport Excavation Permit PIC	HP*	Project Engineer / Surveyor				
1.8	Native Grass Protection	Prior to commencing activity	Native grass protection installed. As per native grass model	Relevant Native Grass Permit	Visual Inspection	FH-ZU2-QU-ITP038 This ITP Signed	IP	Project Engineer				
2.0	Construction - Stormwater											
2.1	Excavate trenches for pipes	Each lot	<ul style="list-style-type: none"> - Trenches for pipes shall be excavated to the width and depth required enabling construction of the pipes to the requirements specified on the drawings. - Inconsistent, rocky or soft material at base of trench shall be excavated and replaced with compacted select fill 	Drawings AS 1289	Visual inspection	This ITP signed Building Engineering ITC	IP	Project Engineer				

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2.2	Existing services crossing new pipes	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. - Location, level and configuration of existing service crossing to be recorded in as built documentation prior to backfill (including CAD model file) 	WMS002 – Working Near Existing Services	Visual inspection	As-built survey report	SCP	Project Engineer / Surveyor				
2.3	Laying and jointing of pipes	Each lot	<ul style="list-style-type: none"> - Pits, pipes & structures shall be constructed to the line, levels and dimensions shown on the drawings - Pipes shall be bedded evenly on sand compacted to min 100mm thickness below the socket - Pipe laying shall be constructed at the downstream end of the pipe run. All pipes shall be laid with sockets pointing upstream - Lay at MIN grade 1:100 UNO. 	Drawings	Visual inspection	This ITP signed Building Engineering ITC	IP	Project Engineer / Foreman				
2.4	Pre-backfill inspection & testing	Prior to backfilling each lot	HOLD POINT Backfilling of the trenches shall not proceed until the pipeline has been tested and inspected. Check for leaks to the requirement of clause 15.2 of AS3500.2 <ul style="list-style-type: none"> - Inspect for proper laying and jointing - Pipeline has continuity in fall - Expansion/swivel joints provided for all pipework - Testing as per AS 3500.3 to be carried out <ul style="list-style-type: none"> o Water Test o Air Test 	Drawings ZULU-BECA-001-SPC-00005 C1700.8 2c C1700.2 .2a AS 3500.2 Building Engineering ITC	Visual Inspection, Test Result	This ITP signed Building Engineering ITC	HP/TP	Project Engineer / Principal's Representative				

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Contract No: CP14038-01

Prepared By: Jihad Barbar

Project: Taxiway Zulu

Reviewed By: Jamal Khodr

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Specifications: ZULU-BECA-001-SPC-00005, Drawings

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			- Building Engineering to run camera through Stormwater pipeas and upload link									
3.0	Construction – Sanitary Drainage											
3.1	Excavate trenches for pipes	Each lot	<ul style="list-style-type: none"> Trenches for pipes shall be excavated to the width and depth required enabling construction of the pipes to the requirements specified on the drawings. Inconsistent, rocky or soft material at base of trench shall be excavated and replaced with compacted select fill 	Drawings AS 1289	Visual inspection	This ITP signed, Building Engineering ITC	IP	Project Engineer				
3.2	Existing services crossing new pipes	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. Location, level and configuration of existing service crossing to be recorded in as built documentation prior to backfill (including CAD model file) 	WMS002 – Working Near Existing Services	Visual inspection	As-built survey report Building Engineering ITC	SCP	Project Engineer / Surveyor				
3.3	Laying and jointing of pipes	Each lot	<ul style="list-style-type: none"> Pits, pipes & structures shall be constructed to the line, levels and dimensions shown on the drawings Pipes shall be bedded evenly on sand compacted to min 100mm thickness below the socket Pipe laying shall be constructed at the downstream end of the pipe run. All pipes shall be laid with sockets pointing upstream Lay at MIN grade 1:100 UNO. 	Drawings	Visual inspection	This ITP signed Building Engineering ITC	IP	Project Engineer / Foreman				

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3.4	Pre-backfill inspection and Testing	Prior to backfilling each lot	<u>HOLD POINT</u> <ul style="list-style-type: none"> - Pipeline will need to be tested and inspected prior to any backfilling - Inspect for proper laying and jointing - Pipeline has continuity in fall - Expansion/swivel joints provided for all pipework - Use temporary capping to isolate piping to be tested; fill piping with clean water and check for leaks to the requirement of clause 15.2 of AS 3500.2 - After testing, drain and reconnect the piping, flush the drains clean with water and check for fall to discharge - Building Engineering to run camera through Sanitary pipes and upload link 	Building Engineering ITC ZULU-BECA-001-SPC-00005 C1700.8 .2 C AS 3500.2	Visual Inspection, Test Result	This ITP signed Camera Footage Building Engineering ITC	HP/TP	Project Engineer / Principal's Representative				
4.0	Construction – Cold Water Pipes											
4.1	Excavate trenches for pipes	Each lot	<ul style="list-style-type: none"> - Trenches for pipes shall be excavated to the width and depth required enabling construction of the pipes to the requirements specified on the drawings. - Inconsistent, rocky or soft material at base of trench shall be excavated and replaced with compacted select fill 	Drawings AS 1289	Visual inspection	This ITP signed, Building Engineering ITC	IP	Project Engineer				
4.2	Existing services crossing new pipes	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		Building Engineering ITC						
4.3	Laying and jointing of pipes	Each lot	- Pits, pipes & structures shall be constructed to the line, levels and dimensions shown on the drawings - Pipes shall be bedded evenly on sand compacted to min 100mm thickness below the socket - Pipe laying shall be constructed at the downstream end of the pipe run. All pipes shall be laid with sockets pointing upstream	Drawings	Visual inspection	This ITP signed Building Engineering ITC	IP	Project Engineer / Foreman				
4.4	Pre-backfill inspection and Testing	Prior to backfilling each lot	<u>HOLD POINT</u> - Pipeline will need to be tested and inspected prior to any backfilling - Inspect for proper laying and jointing - Conduct Pressure Test and Flushing of the Pipeline <ul style="list-style-type: none"> - Prior to testing, flush all pipework and equipment with clean potable water until the flushed water runs out completely clear - Pressurise with clean potable water (free of oil and other impurities) and maintain the test pressure for 2 hrs - Immediately after successful testing, final flush all pipework and equipment with clean potable water at "full flow" for at least 10 minutes 	Drawings ZULU-BECA-001-SPC-00005 C1700.8 .2 a AS 3500.1	Visual Inspection	This ITP signed Building Engineering ITC	HP/TP	Project Engineer / Principal's Representative				

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			- In addition to general flushing and cleaning requirement above, disinfect and passivate pipework systems in accordance with AS 3500.1 and any relevant manufacturer written instructions									
5.0	Construction – Electrical & Comms											
5.1	Excavate trenches for conduits	Each lot	<ul style="list-style-type: none"> Trenches for conduits 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. 	Drawings ZULU-BECA-001-SPC-00004 cl. 3.6	Visual inspection	This ITP signed Building Engineering ITC	IP / TP	Project Engineer				
5.2	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. Location, level and configuration of existing service crossing to be recorded in as built documentation prior to backfill (including CAD model file) 	WMS002 – Working Near Existing Services	Visual inspection	As-built survey report Building Engineering ITC	SCP	Project Engineer / Surveyor				
5.3	Laying and jointing of conduits	Each lot	<ul style="list-style-type: none"> All conduits shall be rigidly supported and positioned by concrete former or plastic spacer blocks so that no displacement occurs during backfill. Where conduit ends are not open to a pit, UPVC end caps shall be temporarily fitted to each end. Number of conduits and duct route to be confirmed for conformity with design. 	ZULU-BECA-001-SPC-00004 cl. 3.7	Visual inspection	This ITP signed Building Engineering ITC	IP	Project Engineer / Foreman				

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5.4	Pre-backfill inspection	Prior to backfilling each lot	HOLD POINT All trenches shall be inspected by the Contract Administrator before backfilling takes place.	ZULU-BECA-001-SPC-00004 cl. 3.8.1	Inspection	This ITP signed Building Engineering ITC	HP	Project Engineer / Principal's Representative				
5.5	Conduit markers & warning tape	Each lot	<ul style="list-style-type: none"> Pavement edge duct markers shall be installed at the edge of pavements immediately over the centreline of duct banks. Warning tape shall be to AS 2648.1, and coloured orange for electrical/white for communications conduits. 	ZULU-BECA-001-SPC-00004 cl. 3.11 cl. 3.12 AS 2648.1	Visual inspection	This ITP signed Building Engineering ITC	IP	Project Engineer / Foreman				
5.6	Checking of conduit lines	Each lot	<ul style="list-style-type: none"> Following installation, the conduit shall be checked by passing a mandrel (not less than 300mm long and having a diameter of not more than 6mm less than the diameter of the conduit) through each way, followed by a brush with stiff bristles to clean the conduit of any foreign materials. 	ZULU-BECA-001-SPC-00004 cl. 3.9	Visual inspection	This ITP signed Building Engineering ITC	HP*	Project Engineer				
5.7	Conduit draw cord	Each lot	Each duct way in each duct bank shall be fitted with a single unjointed 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 inspection	This ITP signed Building Engineering ITC	IP	Project Engineer / Foreman				
6.0	Backfilling											
6.1	Survey AS BUILT	Each lot	Surveyor to pick up completed pipe/conduit runs & underground tanks before backfill	FH QMP	Verify / Inspection	Survey Report	SCP / IP	Project Engineer / Surveyor				

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6.2	Backfilling Conduits/Pipes	Each lot	<u>Bedding</u> - Bedding material shall encase the pipe to 100mm compacted thickness above the pipe and be compacted simultaneously around both sides of the pipe <u>Backfill</u> - Backfill remaining area with site won material from excavations and compact in minimum 200mm thick layers	Drawings	Verify	This ITP Signed Building Engineering ITC	IP	Project Engineer / Foreman				
6.3	Testing of Trench Backfill	Each Lot	The minimum frequency of field density tests shall be in accordance with AS3798 table 8.1 and not less than 1 test per 50m of compacted backfill in each layer of pipe trench fill.	Drawings AS3798 Table 8.1	Verify	This ITP Signed Test Results	TP	Project Engineer / Principal's Representative				
6.3	Surface Reinstatement	Each Lot	<u>Pavement Areas</u> - Final backfilling in existing pavement areas shall to 100% compaction - Mechanically compacted in max 150mm layers - Basecourse depth shall be 400mm or existing pavement depth, whichever is greater <u>Grassed Areas</u> The final 100mm of backfilling shall be clean topsoil	ZULU-BECA-001-SPC-000AII 05 C1772.6 .1 AS 2566	Visual inspection	This ITP Signed Building Engineering ITC	HP*	Project Engineer / Foreman				
7.0	Construction – Precast Pits, Headwalls, & Underground Tanks											

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7.1	Placement of Septic & SPEL Tanks	Each lot	Ensure placement of tanks is as per manufacturer specification and as per design levels	Drawings, Manufacturer' s Specification	Visual inspection	This ITP signed	IP	Project Engineer / Surveyor				
7.2	Placement of Pits and Headwalls	Each lot	Pits placed and levelled as per survey set out	Drawings	Verify	This ITP signed.	HP*	Project Engineer / Surveyor				
7.3	Bedding & Backfill of pit surrounds	Each lot	WITNESS POINT Each pit/headwall shall be bedded and be backfilled with stabilised sand for grassed areas. Principals Representative shall be notified to inspect installed pits with all connections prior to backfilling	ZULU-BECA-001-SPC-00004 Drawing 00201	Verify	This ITP signed	WP	Project Engineer / Principal's Representative				
7.4	Pit Close out	Each lot	Pits shall be labelled and directional markers placed. Lids to be secured and area cleaned/demolished	ZULU-BECA-001-SPC-00004	Verify	This ITP signed	IP	Project Engineer / Foreman				

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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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