

Client: Melbourne Airport

Contract No: CP14038-01

Prepared By: Giuliano Follacchio

Project: Taxiway Zulu

Reviewed By: Jason Lee

Date: 17/6/24

Construction Process: AGL Deep Base Cans

Approved By: Giuliano Follacchio

Date: 10/5/24

Specifications: ZULU-BECA-001-SPC-00003

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 Project Engineer Superintendent Surveyor Foreman	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			Subcontractor	Beca	FH	Date
1.0	Preliminary Works											
1.1	Check for correct documentation	Prior to commencing any activity	Ensure that all employees and subcontractors are using the latest and complete set of drawings	IFC Drawings	Verify	Drawings	IP	Project Engineer				
1.2	Implementation of all measures and controls	Prior to commencing any activities	All necessary measures and controls are being implemented, that is PSP, EMP, TMP, SWMS & WP.	PSP, EMP, TMP, JSEA, SWMS, WP	Verify	Site and office Inspection	HP*	Project Engineer / Site Supervisor				
1.3	Material/equipment approvals	Prior to start	Materials and equipment that shall be used in the construction of the works as nominated on the Drawings.	ZULU-BECA-001-SPC-00003 cl 2.3	Verify	Aconex reference(s)	HP*	Project Engineer				
1.4	Setting out for airfield luminaires	Each Lot	<u>HOLD POINT</u> The Contractor shall survey the proposed light locations in conjunction with the new and existing line-marking to set out the proposed lights. A schedule of the proposed lights shall be produced and submitted to the Contract Administrator.	ZULU-BECA-001-SPC-00003 cl 5.4	Verify	Aconex reference	HP	Project Engineer / Beca				
1.5	Installation of Initial Light Base	Once	<u>HOLD POINT</u>	ZULU-BECA-001-	Visual Inspection	This ITP Signed	HP	Project Engineer / Beca				

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			The initial installation of the light base shall be witnessed by the Contractor Administrator	SPC-00003 cl 5.4								
2.0	Installation of Base Canister											
2.1	Steel Reinforcement Mesh and Reo Cage	Each Lot	<ul style="list-style-type: none"> N12-150 steel mesh installed on both direction with 43.5mm cover. N12 reinforcement cage to be installed as per AGL details 	ZULU-BECA-024-DWG-07506	Visual Inspection	This ITP signed Avionics Base Canister Installation ITC	IP	Project Engineer				
2.2	Base Canister and Conduit Installation	Each Lot	<ul style="list-style-type: none"> Concrete encasement for electrical conduit shall have a minimum cover of 40mm. Ensure bottom of can is 200mm minimum to the bottom of foundation. 700mm x 700mm 40MPa concrete foundation Compressive Strength Test Sample to be conducted per 50 m3 of concrete Install 19mm plywood cover with mud plate (sealed and bolts torqued to 40NM) Check the elevation (RL) of the bottom canister (top plate) relative to the FSL of PCC concrete. 	ZULU-BECA-024-DWG-07507	Visual Inspection	This ITP signed Avionics Base Canister Installation ITC Concrete Test Results	IP	Project Engineer				
3.0	Installation of Top Canister											

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3.1	Top Canister Installation	Each Lot	<ul style="list-style-type: none"> - Core pilot hole (150mm) down to target ring and establish exact centre. - Core diameter of approximately 355mm - Install top canister with spacer rings and dam rings 	ZULU-BECA-024-DWG	Visual Inspection	This ITP signed Avionics Top Canister Installation ITC	IP	Project Engineer				
3.2	Top Canister Close out	Each Lot	<ul style="list-style-type: none"> - Install bolts and tightened to manufacturer's recommended torque using a calibrated torque wrench. - Apply Webertec FG epoxy sealant to the void between housing and side of excavation 	ZULU-BECA-024-DWG	Visual Inspection	This ITP signed Avionics Top Canister Installation ITC	IP	Project Engineer				
3.4	Elevated Luminaire Base	Each Lot	Installed and backfill in accordance with drawings. <ul style="list-style-type: none"> - Two piece deep base cans to be installed. - Min. 500mm cover from finished surface to top of conduit. - Can fitted with frangible coupling and FAA type/secondary socket retaining arrangement plug and socket. - Foundation and reinforcement installation to match Deep Can Installation for Rigid Pavement 	ZULU-BECA-024-DWG-07507	Visual Inspection	This ITP signed Avionics Base Canister Installation Checklist	IP	Project Engineer/Site Supervisor				

		Inspection and Test Plan - Control and Supervision of the Works		Doc ID: FH-ZU2-QU-ITP043 REV: 0
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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 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	
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Deep Base Canister Installation

 AVIONICS <small>LIMITED</small> LIGHTING THE WAY	Fitting ID:				
	Light Type:				
	Work Area:				
	Drawing Number:				
Task Details		Signature:	Date:	Name:	Status:
Task number 1: PRE-WORKS - Surveyor to mark out base canister position and aim point (by Fulton Hogan). - Excavation/Coring Permit to be completed and approved for works (by Fulton Hogan).					
Task number 2: CIVIL WORKS - Excavate aggregate (FCR or RCC) to a depth of 700mmx700mmx230mm as per IFC drawings. - Ensure subsoil is protected where required.					
Task number 3: CIVIL WORKS - INSTALLATION OF BASE CANISTER SECTION: - Place circular steel reinforcement mesh and reo cage into the formation excavated area on chairs as required to provide 100mm cover below reinforcement. - Install the base can housing and accompanying jig. Ensuring positioned correctly to allow for correct spacing between surfaces and edge of concrete (and surfaces to reo cage) - Ensure the Base can set at correct height and tolerances in accordance with specification					
Task number 4: CIVIL WORKS - Ensure all conduits are positioned into canister and are sealed - Connect the subsoil drain conduit to the base canister (and sealed) as per spec (where required)					
Task number 5: CIVIL WORKS - BEFORE CONCRETING: - Survey check of the level, angle and position of base can and ducting (By Fulton Hogan) - Ensure canister and jig is adequately weighted and positioned to prevent movement during pouring					
Task number 6: CIVIL WORKS - CONCRETE POUR: - Backfill with 40MPa Concrete. As per specification and IFC drawings. - Concrete shall be backfilled until the foundation thickness is min. 400mm and there is 50mm cover over conduits. - Ensuring concrete vibrators are used to remove all air voids throughout pouring.					
Task number 7: CIVIL WORKS - DURING POUR/CURING: - Ensure particular care is taken while pouring to prevent movement of the base canister, jig, reinforcements and ducting - Ensure foundation is finished as per project specification - Concrete tested as required (By Fulton Hogan)					
Task number 8: ONCE CONCRETE HAS CURED: - Ensure adequate time has passed to allow concrete to cure - Survey to confirm base canister has been installed as per specification (By Fulton Hogan).					
Task number 9: ONCE CONCRETE HAS CURED: - Ensure jigs are removed and canister cleaned of any concrete - Ensure surrounding sub-base is clean of any concrete - Ensure mud-plate is installed (and sealed) and bolts torqued/painted to 40NM					
Task number 10: ONCE INSTALLATION OF THE BASE IS COMPLETE: - Clean pavement area. - Pack all equipment away. - Demobilize - FOD Check					
Page: 1		Asset:			

Deep Base Canister Installation

 AVIONICS <small>LIMITED</small> LIGHTING THE WAY	Fitting ID:	
	Light Type:	
	Work Area:	
	Drawing Number:	

Task Details	Signature:	Date:	Name:	Status:
Task number 11: ONCE PCC WORKS COMPLETE - TOP CANISTER INSTALLATION - PRE-WORKS: - Surveyor to mark out top canister position and aiming points (by Fulton Hogan). - Excavation/Coring Permit to be completed and approved for works (by Fulton Hogan).				
Task number 12: TOP CANISTER INSTALL: - Pilot core (150mm diameter) down to locate base canister mud-plate and establish the center of the canister. - Ensure final larger core is centered off the middle of the canister (approx. 356mm core)				
Task number 13: TOP CANISTER INSTALL: - Install the top canister section onto the base canister section, no. of spacer rings as required, and dam ring to match with the pavement finished level. As per the specification and IFC drawings. - Ensuring no more than 3 nos. of spacer rings with a total thickness of 25mm shall be installed between the top and bottom section. - Ensure the no. and size shims used are recorded (In MAPSES)				
Task number 14: TOP CANISTER INSTALL: - Ensure all bolts are tightened to the manufacturer's recommended torque value using calibrated torque wrench. 40Nm/paint.				
Task number 15: TOP CANISTER INSTALL: - Pour epoxy around canister as per manufacturer's recommendation and IFC drawings.				
Task number 16: AFTER EPOXY HAS CURED: - Position adaptor plate and blanking plate into new base - Install new M10 Nut and washers. - Torque nuts to 40Nm and paint				
Task number 17: ONCE INSTALLATION OF THE BASE IS COMPLETE: - Clean pavement area. - Pack all equipment away. - Demobilize - FOD Check				