

Item No.	Inspection and Test Point	Acceptance / Conformance Criteria	Standard / Specification	Verifying Document	Frequency	Verification Activity		Downer Conformance of Compliance Signoff				
						Activity	By	Downer Signature	Date	MSQA signature (Blank as Req.)	Engineer Rep Signature (Blank as req.)	Comments / Closeout Details
SECTION 3 – PRE-CONSTRUCTION (P&G / ESTABLISHMENT)												
3.1	Construction Pack	Submit a Construction Pack including a Methodology and JSEA to the Engineer before works	Downer	Construction Pack	Submit 5 days prior to commencement of works	H	PE				H	
3.2	Survey Setout	Survey Set out as per contract drawings and specification, capturing pre-construction levels where needed.	Downer	Survey Records	Prior to Works	H	SV			C		
3.3	Service Location	Complete the Excavation permit process to identify, locate and protect all services.	Downer	Excavation Permit	Prior to Excavation	H	SE					
3.4	Internal Permits	Complete internal Permits as required to complete works including but not limited to: Hot works, concrete saw, lift, confined space, working at height etc.	Downer	Internal Permits	Prior to Excavation	H	SE					
3.5	External Permits	Obtain External Permits as required to complete works including but not limited to: Close approach, Worksafe Notice etc.	Downer	External Permits	Prior to Excavation	H	PE				R	
3.6	Approved Construction Drawings	Prior to starting works, Ensure that the construction drawings are both IFC and the Current Version.	Downer	IFC Drawings	Prior to works start	H	PE					
SECTION 4 – MATERIAL, PERSONNEL & THIRD PARTY APPROVAL												
4.1	Mix Design	Concrete to be 30Mpa as per DRG-SS-2231 19mm max aggregate . Contractor to provide mix design and strength testing records on request	Downer	Approved MAR	Once Prior	H	PE			R	R	
4.2	Mortar	Consisting of two parts fine, sharp, well graded sand to one part dry cement. Mix by hand or mixer in small quantities use within 30 minutes	Downer	Approved MAR	Once Prior	H	PE			R	R	
4.3	Reinforcing	Reinforcing as per Aurecon Specification	Downer	Approved MAR	Once Prior	H	PE			R	R	
4.4	Hold Down bolts	Hold Down bolts as per pole manufacturers requirements	Downer	Approved MAR	Once Prior	H	PE			R	R	
SECTION 5 – CONSTRUCTION ACTIVITY – LIGHT POLE INSTALLATION												
5.1	Set	Centre of Pole set out as per Model coordinates provided. Hold down bolts to be surveyed to essure they align with the location of Light pole bolts.	Downer	QA Checksheet	Prior to concrete pour	H	PE					
5.2	Reinforcing	Reinforcing and embedded items cut, bent (cold) and accurately placed as shown on design drawings. At least 30mm cover to all reinforcing +5mm/-0mm Bar spacing as per Drawings +/-10mm Bend locations as per drawings +/-5mm	Downer	QA Checksheet	Prior to concrete pour	I	PE					
5.3	Conduit Install	Conduits installed as per NUO requirements and DRG-SS-2231	Downer	QA Checksheet	Prior to concrete pour	I						
5.4	Pre Pour inspection	Notify Engineer for inspection atleast 24 hours prior to pour	Downer	Pre pour checksheet	Prior to concrete pour	H	DES			C		

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5.5	Light pole bases / Pile	Concrete shall be high grade with a minimum compressive strength at 28 days of 30 MPa Concrete slump shall be 175mm +/-25 mm. Concrete to be tremied. Vibrating poker to be used during entire pile length pour. Delivery docket to be dated and showing the concrete supplier and design strength shall be collected and held for every pour. Record location and date of each pour. 3 cylinders taken for each pour slump targets as per mix design (1 sample per 75m^3 or each pour)	Aurecon Spec 15.5	QA Checksheet	each structure During pour	C	SE			W		
5.6	Post Pour	Concrete cylinders to achieve minimum target strength after 28 days. At the Engineers request site samples/cores for independent testing of fresh or cured concrete to review grading, mix design, strength and thickness.	Aurecon spec 13.	Test Report	As requested	H	ENG			R	R	
SECTION 6 – POST CONSTRUCTION (FINAL INSPECTION AND HANDOVER)												
6.1	Construction Record Compilation	Compile construction records for final submission ensuring defects (NCRs) / Snags / missing records are captured or closed out, all tests have been received and passed, and changes / omissions have been noted.	Downer	Records	Post construction	H	SE			R	H	
6.2	Survey Records	Ensure all items have been surveyed and records are assembled for asbuilding	Downer	Records	Post construction	H	SV			R	H	
6.3	Redline Drawings	Create a set of Redline Drawings for Asbuilt creation noting all changes and departures in red pen.	Downer	Redlines	Post construction	H	PE			R	H	
6.4	Defect, Snag and Punch List	Update the project Defect, Snag and Punch List Register	Downer	Register	Post construction	H	PE			R	H	