

INVITATION TO TENDER "ITT" NO. PS20181003
BLOEDEL CONSERVATORY LIGHTING RETROFIT

QUESTIONS AND ANSWERS NO. 1

ISSUED ON JULY 25, 2018

Q1	Are there electrical drawings for the conservatory lighting circuits? (as built).
A1	No.
Q2	What is the diameter of the interior of the dome, where the new color led lights will be mounted?
A2	At the base of the dome, the circumference is approx. 474 ft. The lights will be mounted relative to the dome window sections along the base of the dome at 64 specific locations.
Q3	Will access be provided up to the dome edge where the lights are to be mounted? (during the information meeting).
A3	There is a large platform at one point along the ledge at the base of the dome. Access to the ledge around the dome would be from this point.
Q4	Do we need to remove the existing pipe stubs that the existing fixtures are mounted to? The type S50CB fixtures are shown to mount to a weatherproof octagon device box.
A4	The existing pipe stubs do not have to be removed. The new LED fixtures will be mounted on brackets fastened to the ledge with a cable running to an octagon box along the existing conduit.
Q5	Are there detailed site specific wiring diagrams for the new LED light fixtures in the conservatory? The drawings supplied with the ITT are only general wiring diagrams. Has the manufacturer or consultant created a site specific wiring plan for this project?
A5	There are no site specific wiring plans. An installation guide with typical wiring drawings will be handed out at the site meeting.
Q6	Is there a riser diagram to show all 64 fixtures with power and data connections?
A6	The installation guide will show all of the required wiring and data connections.

INVITATION TO TENDER "ITT" PS20180402
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Q7	Have locations been determined for the data enablers and Lighting system manager? If so are these damp or humid environments?
A7	The data enablers have to be located along the dome ledge at a point relative to a certain number of fixtures and then the circuit continues on to the next enabler.
Q8	Will the equipment need to be housed in a sealed box or climate controlled box if they are in wet/damp locations?
A8	The enablers are IP67 rated for the environment inside the dome. The Light System Manager will be located in the electrical room.
Q9	Will the existing lighting system need to be kept operational while the new LED system is installed? If the intent is to reuse some of the existing wiring and conduit, the existing lighting will have to be disconnected.
A9	The existing lighting will not have to be kept operational. Any change to this intended shut down of the lighting will be at the discretion of the Bloedel Conservatory Manager and allowance may have to be made for temporary lighting. This matter will be discussed at the site meeting.
Q10	Are there shop drawings for the data enablers specified for this project, so we can determine circuit loading and installation details?
Q11	An installation guide will be provided at the site meeting, which will help determine the circuit load and installation detail.

Attendees to the Information Meeting:

1. Black & MacDonald
2. Energy Network Services
3. Houle Electric
4. Modular Electric
5. Trotter & Morton Building Tech
6. Western Integrated Electric