January 31, 2022

ADDENDUM NO. 6

Project Number: R.100644.001

This Addendum shall be attached to and form an integral part of the Contract Documents. The Contents of this Addendum shall be brought to the attention of and read by all concerned. Receipt of this Addendum shall be acknowledged on the Bid Form. The following changes in the bid documents are effective immediately.

The Contract Documents issued by Taylor Hazell Architects Ltd and their consultants are hereby amended as follows:

1. Specifications- Document Set 2

1. Section 26 36 21 – Natural Gas Fired Generator

1. Revise Art 2.4.9:

"The generator set shall be provided with a mounted 600A-3P pad lockable main line circuit breaker (capable of accepting 2 parallel runs of 4-500MCM & 1#3BD, sized to carry the rated output current of the generator set on a continuous basis. The circuit breaker shall incorporate an electronic trip unit that operates to protect the alternator under all overcurrent conditions, or a thermal-magnetic trip with other overcurrent protection devices that positively protect the alternator under overcurrent conditions. The supplier shall submit time overcurrent characteristic curves and thermal damage curve for the alternator, demonstrating the effectiveness of the protection provided,"

to read:

"The generator set shall be provided with a mounted **200A**-3P pad lockable main line circuit breaker (capable of accepting **4#3/0 & 1#2BD,** sized to carry the rated output current of the generator set on a continuous basis). The circuit breaker shall incorporate an electronic trip unit that operates to protect the alternator under all overcurrent conditions, or a thermal-magnetic trip with other overcurrent protection devices that positively protect the alternator under overcurrent conditions. The supplier shall submit time overcurrent characteristic curves and thermal damage curve for the alternator, demonstrating the effectiveness of the protection provided."

2. Revise Art 2.4.10:

"The generator set shall be provided with one 600A-3P (minimum) generator mounted circuit breaker for load bank testing. The circuit breaker shall be provided with a shunt trip interlocked with the automatic transfer switch starting signal to open the breaker on a request to start. The load side of the load bank testing circuit breaker shall be wired to nine (9) (3PH + N + G) weatherproof single pole 400A (minimum), 600V cam-lok receptacles mounted on the outside of the enclosure,"

to read:

"The generator set shall be provided with one **250A**-3P (minimum)

generator mounted circuit breaker for load bank testing. The circuit breaker shall be provided with a shunt trip interlocked with the automatic transfer switch starting signal to open the breaker on a request to start. The load side of the load bank testing circuit breaker shall be wired to **five (5)** (3PH + N + G) weatherproof single pole 400A (minimum), 600V cam-lok receptacles mounted on the outside of the enclosure **in a cam-lock connection box.**"

2. Section 27 05 13 – Communications Services

1. Clarification: 12 Strand OM3 Multimode outdoor unarmoured fibre is to be taken from Building PP64 to Wall Mounted Lockable Cabinet in the Cow Barn. Fibre (any communications cabling) is not to be taken to the Goat Barn in this project as it is a future building.

2. Revise Art 2.1.1:

"Underground wire: 2 No.19 AWG solid annealed copper conductors laid parallel, polyethylene insulation, close serving of flat galvanized steel wire armour, jacket of polyvinyl chloride designed for buried service connections. Minimum 100 pair from building 64 to each of Cow and Goat Barns,"

to read:

"Underground wire: 2 No.19 AWG solid annealed copper conductors laid parallel, polyethylene insulation, close serving of flat galvanized steel wire armour, jacket of polyvinyl chloride designed for buried service connections. Minimum **25 pair from building PP64 to Cow Barn."**

3. Section 27 11 19 – Structured Cabling for Communications Systems

1. Revise Art 2.3.5:

"25 pair copper feeder cable is to be terminated to a BIX/110 punch down strips,"

to read:

"**25 pair copper feeder cable is to be terminated to a BIX/110 punch down strips. Internal voice cabling will terminate in a patch panel in the designated Rack with a 25 pair link to the cabinet from the BIX."**

2. Revise Art 2.6.2:

"Contractor is to terminate all internal building data cables directly into the lockable cabinet,"

to read:

"**Contractor is to terminate all internal building Cat6 FT6 shielded cabling to Rack, then from Rack to Lockable Cabinet. Fibre is to terminate in the lockable cabinet directly. Cabinets are per specification section 26 27 16 - Electrical Cabinets and Enclosures."**

4. Section 28 31 00.01 Multiplex Fire Alarm

1. Clarifications: Joyceville Institution has an existing Cerberus Pyrontronix (Siemens) fire alarm system. The fire alarm system for the Cow Barn is part of the larger network or systems. The Cow Barn fire alarm system will not be connected to another building fire alarm system through dry contacts. The intent is to have a wireless GSM monitoring panel to monitor the fire alarm system in the Cow Barn.

5. Detail Sheets
1. Add detail sheet E-132 TYPE ‘L’ LIGHTING FIXTURE.

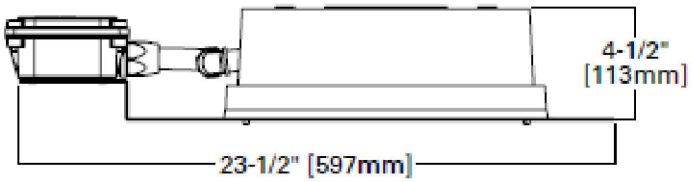
2. Architectural Drawings-Document Set 2

1. DRAWING E-C-1.1 SITE PLAN-ELECTRICAL LAYOUTS AND LEGEND
   1. Clarification: Based on review of the electrical and civil site plan drawings, assuming that the contractor will follow the given routing of the ductbank indicated on the drawings, and with some consideration of grade changes, the distance of the conduit/path from the PP64 building to the Cow Barn is taken off at approximately 460m. Confirmation remains the responsibility of the Contractor.
2. DRAWINGS E-C-2.7 – 2.11 VENTILATION CONTROL (PAGES 1-4 OF 4)
   1. Clarification: The Ventilation Systems, cabinets & associated control panels are to be provided by the Dairy Equipment Supplier. All indicated wiring, cabling and conduit is by the electrical and systems contractors.

Attach

Detail Sheet E-132 TYPE ‘L’ LIGHTING FIXTURE.

END OF ADDENDUM NO. 6



LAMP: 46WATT, 32 LEDS, 3,000K, 80 CRI.

DRIVER: WITHSTAND 10KV TRANSIENT LINE SURGE.

VOLTAGE: UNIVERSAL 120-277VOLTS, SINGLE PHASE 60HZ.

GENERAL: RECESSED CANOPY LIGHT WITH WET LOCATION DRIVER ENCLOSURE, IP66 RATED.

HOUSING: HEAVY DUTY CAST ALUMINUM WITH ALUMINUM MOUNTING FRAME.

OPTICS: DEDICATED CAVITIES FOR ARRAY OF INDIVIDUAL LED'S TO MAXIMIZE EFFICIENCY AND CONTROL OF DISTRIBUTION OUTPUT. A GLARE-REDUCING OPTICAL SYSTEM TO ENHANCE VISUAL COMFORT AND MAXIMIZE DELIVERED LUMENS WHILE MINIMIZING GLARE.

FINISH: POLYESTER POWDER COAT PAINT 2.5 MIL NOMINAL THICKNESS. LENS FRAME AND TRIM TO BE BLACK.

WARRANTY: 5 YEARS.