December 10, 2020

THE REGIONAL MUNICIPALITY OF YORK
Request for Tender No. T-19-349 Addendum#2

For: Interior Renovation – 3rd Floor Block A, B, & D at the York Region Administrative Centre

Closing: December 17, 2020 on or before 1:00 p.m. Eastern Time

Bidders are requested to incorporate the changes/clarifications noted below to the above noted Contract Documents and be governed accordingly.

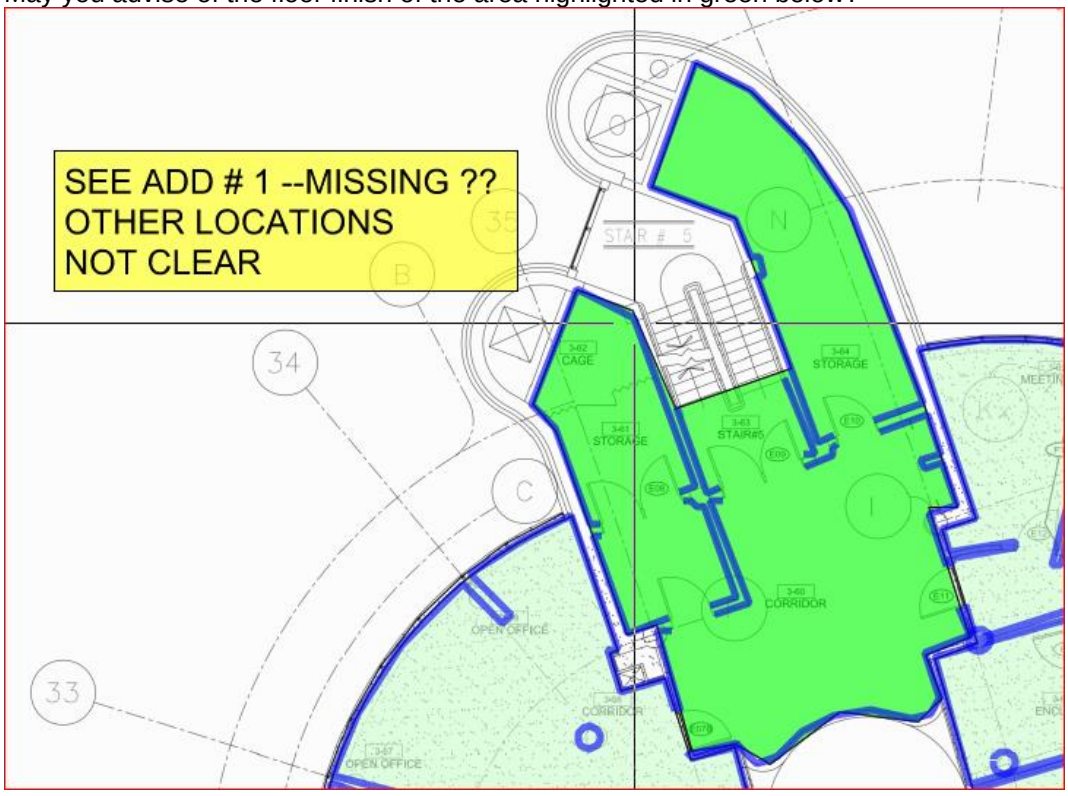
Please note that the Question & Answer feature has been turned on in the Region's Bids & Tenders website, however please continue to send by all queries regarding the tender documents to **Susan Hope, CPPB, Senior Purchasing Analyst, Procurement Office Email: susan.hope@york.ca**

The following are the Region's response to questions received:

1. **Documents:**
   1.Refer to Addendum E-02 issued by Smith + Anderson dated Dec. 19, 2020

2. **QUESTIONS AND ANSWERS:**

Q1. May you advise of the floor finish of the area highlighted in green below?



A1. Existing floor finish to remain in the following rooms: 3-62 Cage, Storage 3-61, Stairs 3-63, and Storage 3-64. New carpet CP-1 in Corridor 3-60 and room between Corridor 3-60 and Storage Room 3-61.

Q2. As per detail 2 on drawing A601, "GC to allow for ten site conditions as shown & refer to A200." On drawing A200 & A201, note 5 is more than ten locations. Please clarify if above statement is to allow additional ten locations than shown on drawings A200 & A201.

A2. Allow for up to 35 site conditions illustrated in 2/A601.

Q3. For communication structured cabling, please advise if Hubbell could be considered as an substitute?

A3. Yes, Hubbell can be accepted as well.

Q4. As per drawing A200, at grid line 1 & C, reference for millwork details (1 & 2 / A602) are mentioned which are missing in tender document. A602 is not on cover page either. Please provide and clarify

A4. These details were provided in Addendum #1.

Q5. Are we able to spray on this project or is it strictly brush and roller? This will make a difference on production rates

A5. No preference.

Q6. Please clarify if construction in all three major areas has to be done concurrently or phasing is required. If so than please provide phasing plans indicating different phases.

A6. The main area of work, other than the washrooms and corridor can be done concurrently, as the means and methods is up to the Contractor. Regarding, the washroom and corridor please refer to drawing A002 C – scope of work ' C' and A002 D scope of work 'D'.

Q7. Please confirm and clarify work being done on the ground and second floor, please provide drawings/details for these scopes.

A7. A302 & A303 shows 2nd floor architectural scope pertaining to ceiling patch/repair.

Q8. Can you please clarify if they corridor in Block B is in our scope, if so can you please provide finishes for those areas.

A8. Yes, it is part of the scope Paint (PT1) and carpet (CP-1)

Q9. Please provide schedules and specifications for the two Delta lighting relay panels.

A9. Schedule to match lighting panel schedule as shown on plans. Specification added in electrical addendum E-02.

Q10. Regarding the use of AC-90 – details 5/E-02. And 6/E-0.2 suggest that the use of AC-90 is acceptable for feeding receptacles, yet 26 05 21.3.1.5 suggests otherwise; please clarify.

A10. As per specification, AC-90 is acceptable where noted on the Drawings and wiring is required within an existing wall

Q11. Note #3 on drawing E3.1A&B: Drawing shows all light fixture to be new, please advise if there are existing fixtures to remain or to be relocated.

A11. No, fixtures to remain, housing for linear fixtures to be reused for L1

Q12. Note #3 on drawing E3.3A&B: Please confirm if this note is applicable for all L1 fixtures shown on E-3.1A & E3.1B.

A12. Yes, note is applicable to all L1 fixtures shown on E-3.1A & E-3.1B

Q13. Note N-1 & N-2 on drawing E-3.5 : Please confirm if this note is for L4 or for L3?

A13. N-1 and N-2 is for strip light L4

Q14. Referencing Electrical drawing E0.2 Detail 1. There is a SOUND MASKING panel shown in Electrical room 3-28. There is no reference to Sound Masking in the Electrical specification. Question(s) a) who will be providing and installing this above mentioned sound masking panel? b) where are the new SOUND MASKING devices located, as they are not shown on the plan drawings. c) what are the cabling requirements? d) are there existing SOUND MASKING devices and associated panel(s) in the construction space?

A14. Sound masking not included in electrical scope (other than receptacles for system). Sound masking design shown in Environmental Acoustics drawings, attached dated May 7, 2020. Contact Jen Damiani at 416-990-0419.

Q15. Please clarify BAS control system manufacturer?

A15. Delta Controls

Q16. Please clarify piping sizes for HWS/R piping as there are none shown?

A16. Question acknowledged, and will be addressed in the next addenda.

Q17. Is there any door schedule available including elevation to see if any glazing inserts is needed, if any?

A17. All new offices and meeting rooms with P2 partition – the doors are part of the Altos wall system and will be installed by the Altos installer. Detail 3/A601 covers new doors 36A and 36B. As for door hardware, the GC should have no issues allocating costs to two doors as specified.

Bidders are required to acknowledge receipt of all addenda to this RFT prior to submitting their Bid. Submissions that do not contain evidence of receipt of all addenda will be deemed to be “incomplete” and will bot be accepted in the Bidding Website.

This Addendum shall remain attached to and form part of the Contract Documents.

Yours truly,

Susan Hope, CPPB
Senior Purchasing Analyst

Attachments: Addendum E-02 Issued by Smith + Anderson dated Dec. 9, 2020 (7 Pages)
Environmental Acoustic Drawing dated May 7, 2020 (1 Page)

Smith + Andersen
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ADDENDUM

PROJECT NAME:	York Region Admin Centre 3rd Floor Renovations
COMPANY:	G Bruce Stratton Architects
ATTENTION:	Stephanie Kamburis
PROJECT NO.: 14008.009.E.001	DATE: 2020-12-09
ADDENDUM NO.: E-02	ISSUED BY: Angelica Sabandal

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

1.0 SPECIFICATIONS

1.1.1 Add section 26 09 24.00 – Lighting Control Equipment.

1.1.2 Add section 26 12 17.00 – Dry Type Transformers – 600V Primary.

2.0 CLARIFICATION

2.1.1 In coordination with electrical drawings

END OF ELECTRICAL ADDENDUM

14008.009.E.001.A002

1. General

1.1. WORK INCLUDED

1.1.1. Section 26 05 01.00 – GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.

1.1.2. Section 26 05 04.00 – SUBMITTALS/SHOP DRAWINGS.

1.2. DESCRIPTION OF SYSTEM

1.2.1. Low voltage control system is to be designed to provide remote switching of lighting loads by use of:

.1 Low voltage momentary contact switches.

.2 Low voltage relays.

.3 Control transformers.

.4 Low voltage rectifiers.

.5 Manual and automatic program control.

1.3. SHOP DRAWINGS AND PRODUCT DATA

1.3.1. Submit Shop Drawings and product data in accordance with Section 26 05 04.00 – SUBMITTALS/SHOP DRAWINGS.

2. Products

2.1. MATERIALS

2.1.1. Control system: by one manufacturer and assembled from compatible components.

2.2. DISTRIBUTED LIGHTING CONTROLS:

.1 Except for exit and emergency lighting, circuit breakers shall not be used to switch lighting circuits.

.2 Provide interior whole building automatic lighting shutoff per ASHRAE 90.1-2010, section 9.4.1.1.

.3 Provide controls for individual spaces per ASHRAE 90.1-2010, section 9.4.1.2, including multi-level lighting and occupancy/vacancy sensors. Avoid unnecessary after-hours lit areas and associated energy use (via overrides) through appropriate zoning of controls.

.5 Provide automatic control devices with manual-off capability in addition to automatic off with the exception of washrooms and court rooms.

.6 Provide automatic daylighting controls per ASHRAE 90.1-2010, section 9.4.1.4 and 9.4.1.5 as modified by the Ontario Building Code (Supplemental Standards SB-10, Division 2, Chapter 2, 1.1.1.7. (2) and (3). Daylighting controls shall be dimming rather than step for regularly occupied spaces such as offices and lobbies.

.7 Functional testing of lighting controls shall comply with ASHRAE 90.1-2013, section 9.4.3.

.8 Large spaces such as garages and industrial-type spaces shall have multiple overlapping levels of lighting control and/or digital addressable control.

2.3. CENTRALIZED LIGHTING CONTROLS:

Delta Controls - DLC-G1212 Lighting Controller

The DLC-G1212 is a fully programmable, Native BACnet™ Advanced Application Controller that communicates on a BACnet MS/TP RS-485 LAN. This controller is designed for lighting applications and has 12 GE lighting relay outputs per controller. The controller also supports up to 12 Delta BACstats connected on its LINKnet subnetwork

Features

- Native BACnet firmware
- BACnet MS/TP communication
- Supports switching a maximum of 48 RR7P or RR9P GE Lighting Relays (4 parallel relays per output) per controller
- Supports a Subnet of up to 12 BACstats (DNS-14/24)
- Supports a Master Override Switch with built-in sequencing
- Fully programmable in GCL+
- Application database can be loaded over the network
- Controller firmware can be flash loaded over the network
- Supports Modbus capability via flash loading in the field
- Supports flash loading Modbus upgrades via hardware key

BACnet Device Profile: BACnet Advanced Application Controller (B-AAC)

Inputs:

- 12 external binary inputs with LED status indication
- 12 internal inputs for relay status built into relay connector

Outputs:

- 12 GE lighting outputs
- RR7P 3-wire relays (control only, no status)
- RR9P 5-wire relays (control and status, including LED indication)
- Relay Switches:
- 12 terminals for wiring local GE switches directly to relay output
- Sweeper Ports
- Sweeper input port master override or sweeper input port with command sequencer
- Sweeper output port with LED status indication, which connects to another lighting controller’s sweeper input port to continue the sweep sequence

Communications Ports:

- Main LAN (NET1) with LED status indication
- BACnet MS/TP @ 9600, 19200, 38400, 76800 bps (default) (maximum of 99 devices per BACnet MS/TP segment)
- SubLAN (NET2) with LED status indication
- Delta LINKNet @ 76800 bps (maximum 12 network sensors on LINKnet)

Technology:

- 32-bit processor
- 2 MB (16 megabit) Flash memory
- 319 KB SRAM (database memory)
- LED indication of CPU and SCAN status
- Device Address:
- Set via DIP switch and jumpers, or software setup
- Connectors: Network power inputs: removable screw-type terminal connectors
- Relays: removable MTA156 AMP connectors
- Wiring Class: Class 2

- Power:
- 24 VAC
- 50 VA (including GE relays)

Ambient:

- 32º to 131ºF (0º to 55ºC)
- 10 to 90% RH (non-condensing)
- Dimensions:
- 3.94 x 11.51 x 1.81 in.
- (10.0 x 29.2 x 4.6 cm) with housing
- 1.18 lb. (540 g) with housing

3. Execution

3.1. INSTALLATION

3.1.1. Locate and install equipment in accordance with manufacturer's recommendations and as indicated.

3.2. TESTS

3.2.1. Actuate control units in presence of Consultant Representative to demonstrate lighting circuits are controlled as designated.

3.2.2. Demonstrate the operation of the system through the computer software and the BAS system.

3.3. TRAINING

3.3.1. Provide four half days of training for the Region and the Region’s maintenance staff on the operation and maintenance of the system.

3.3.2. Training to be recorded for use by the Region in the future.

END OF SECTION

1. General

1.1. WORK INCLUDED

1.1.1. Conform to Section 26 05 01.00 – GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.

1.2. REFERENCE

1.2.1. CSA C22.2 No. 47, Air-Cooled Transformers (Dry-Type), latest edition.

1.2.2. CSA C802.2, Minimum Efficiency Values for Dry Type Transformers, latest edition.

1.2.3. U.S. Department of Energy (DOE) “DOE 2016 Efficiency”, latest edition.

1.3. PRODUCT DATA

1.3.1. Submit product data in accordance with Section 26 05 01.00 – GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.

1.4. STORAGE

1.4.1. Store and handle in strict compliance with manufacturer’s instructions and recommendations. Protect from potential damage from weather and construction operations. Store so condensation will not form on or in the transformer housing and if necessary, apply temporary heat where required to obtain suitable service conditions.

1.4.2. Handle transformer using proper equipment for lifting and handling, use when necessary lifting eye and/or brackets provided for that purpose.

1.5. WARRANTY

1.5.1. The transformer shall carry a 1 year warranty from the time of substantial completion.

2. Products

2.1. TRANSFORMERS

2.1.1. Use transformers of one manufacturer throughout project.

2.1.2. Design

.1 Type: ANN. All transformers to be delta-wye configuration unless otherwise noted on the drawings. Scott T constructed transformers will not be accepted.

.2 3 phase, kVA and voltages as indicated on the plans, 60 Hz.

.3 Provide voltage taps of 2 ± 2 ½% FCAN (full capacity above normal) & FCBN (full capacity below normal).

.4 Insulation: 220 deg. C Class H, 150 deg. C. (302 deg. F.) temperature rise.

.5 All windings are to be copper unless stated otherwise on the contract documents.

.6 Basic Impulse Level (BIL): standard.

.7 Hipot: standard.

.8 Average sound level: 65 DBA (measure 1 metre from enclosure).

.9 Impedance at 60Hz: 3.0% to 5.0% (up to 75 kVa), 4.0% to 6.0% (112.5kVA and above).

.10 Provide K-rated transformers as indicated on the Drawings.

.11 Enclosure: Type 2 sprinkler proof, removable metal front panel.

.12 Mounting: floor or wall, as indicated on the Drawings.

.13 Transformer to meet energy efficiency requirements of U.S. DOE and CSA C802.2, whichever is more stringent, at 35% of rated load unless shown otherwise on Drawings.

.14 Finish: in accordance with Section 26 05 01.00 – GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.

2.2. ACCESSORIES

2.2.1. Provide analogue type winding temperature indicator with 2 sequence contacts for transformers of 225kVA and larger. Provide sensor in the centre winding to monitor the temperature.

2.2.2. Grounding terminal: inside enclosure.

2.2.3. External vibration pads equal to Mason Super 'W'.

2.2.4. Nameplate shall be stainless steel.

2.2.5. When the building is required to be built to regional seismic requirements then provide specific seismic snubbers and restraints including anti-vibration pads and/or vibration isolators.

2.3. EQUIPMENT IDENTIFICATION

2.3.1. Provide equipment identification in accordance with Section 26 05 01.00 – GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.

2.3.2. Label size: 6 mm (1/4 in.) letters.

2.4. FINISH

2.4.1. Finish enclosure exterior in accordance with Section 26 05 01.00 – GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.

2.4.2. Transformer to be painted ANSI-61 grey.

2.5. MANUFACTURERS

2.5.1. The following are acceptable manufacturers:

.1 Hammond Power Solutions

.2 Delta Transformers

.3 Schneider-Electric

.4 Eaton Cutler-Hammer

.5 Atlas Transformers

.6 Rex Power Magnetics

3. Execution

3.1. INSTALLATION

3.1.1. Mount dry type transformers as indicated. Transformers larger than 45kVA are to be floor mounted unless identified otherwise on the Drawings. Where a transformer is larger than 45kVA is shown as mounted off the floor, the Contractor is to provide an engineered structure from the floor and wall to support the transformer. Structure to be stamped and signed by a professional engineer and submitted as a shop drawing. Design of structure to take into account the building structure within the respective room.

3.1.2. Provide external vibration isolation pads under transformer.

3.1.3. Ensure adequate clearance around transformer for ventilation.

3.1.4. Install transformers in level upright position.

3.1.5. Remove shipping supports only after transformer is installed and just before putting into service.

3.1.6. Loosen isolation pad bolts until no compression is visible.

3.1.7. Make primary and secondary connections with flexible conduit and in accordance with wiring diagram.

3.1.8. Energize transformers after installation is complete.

END OF SECTION

1 / A301 REFLECTED CEILING PLAN: 3RD FLOOR AREA 'B'
SCALE: 1:100

GENERAL NOTES_RCP

1. HEIGHT TO U/S OF CONCRETE SLAB 3300
2. CONSULT WITH THE ARCHITECT WHERE AMBIGUITY EXISTS BETWEEN THE DRAWINGS AND SITE CONDITIONS
3. CC TO COMMUNICATE WITH ARCHITECT, THE CEILING DESIGN INTENT PRIOR TO SUPPLY/INSTALL
4. ARCHITECT TO APPROVE GRID LAYOUT PRIOR TO INSTALLATION OF ACOUSTIC CEILING TILE
5. PATCH, REPAIR, PAINT ALL EXISTING BULKHEADS AND GYPSUM CEILINGS THROUGHOUT THE SCOPE OF WORK THAT HAVE BEEN DAMAGED AS A RESULT OF A PRIOR DEMOLITION/ PROJECT
6. EXISTING BUILKHEADS TO BE REPAIRED/ HAVE A 300MM EDGE TO BE INCLUDED IN PATCH/REPAIR/PAINT WORK
7. ALL DIFFUSERS TO BE CUSTOM FRAMED WITH T-BAR GRID AND FIT WITHIN THE ITS RESPECTIVE LOCATION AS SHOWN ON PLAN
8. FINAL CEILING GRID PATTERN TO BE COORDINATED WITH CONSULTANT ON SITE
9. CONSULTANT SIGN-OFF ON GRID PATTERN DESIGN PRIOR TO SUPPLY/INSTALL OF T-BAR GRID
10. CONSULTANT SIGN-OFF ON GRID LAYOUT PRIOR TO SUPPLY/INSTALL OF ACOUSTIC CEILING TILE
11. CONTRACTOR TO PROVIDE A MOCK-UP SECTION OF T-BAR CEILING WITH DUCTWORK AND LIGHT FIXTURES INSTALLED TO ENSURE ALL EQUIPMENT ABOVE T-BAR CEILING FITS. GENERAL CONTRACTOR TO BEAR ALL COSTS IF MODIFICATIONS OF THE CEILING ARE REQUIRED
12. PRIOR TO COMMENCING THE INSTALL OF THE NEW T-BAR CEILING CC IS TO SITE VERIFY THAT THE PLENUM SPACE IS HIGH ENOUGH TO ACCOMMODATE THE NEW MECHANICAL/ELECTRICAL SERVICES LOCATED IN PLENUM SPACE. CC TO CREATE MOCK-UP AND DEMONSTRATE TO CLIENT REQUIRED CLEARANCE SPACE IN PLENUM CAN BE ACHIEVED PRIOR TO INSTALL OF DROP CEILING
13. HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF CONCRETE SLAB ABOVE +/-3300MM. CC TO SITE VERIFY PRIOR TO THE START OF WORK
14. CC TO COORDINATE LOCATION OF POT LIGHTS IN NEW TEAM SPACE WITH RECENTLY COMPLETED RENOVATION ON THE THIRD FLOOR TO ENSURE LOCATION OF POT LIGHTS MATCH. PARTICULARLY IMPORTANT IN TERMS OF APPEARANCE WHEN ONE GLANCES UPWARD FROM THE MAIN FLOOR ARE CC WILL AT THEIR OWN EXPENSE RELOCATE POT LIGHTS AS REQUIRED TO MEET THE LAYOUT AS DESCRIBED
15. PATCH/REPAIR/PAINT EXISTING GYPSUM CEILINGS WHERE EXISTING POT LIGHTS ARE BEING REMOVED

LEGEND:

- DENOTES AREA OUTSIDE THE SCOPE OF WORK
- DENOTES ROOM NAME/NUMBER
- DENOTES CEILING FINISH TAG
- EXISTING WALLS
- EXISTING WALLS
- P.1 PARTITION TYPE. REFER TO A200 & A201 FOR SPEC
- P.2 PARTITION TYPE. REFER TO A200 & A201 FOR SPEC
- P.3 PARTITION TYPE. REFER TO A200 & A201 FOR SPEC
- ACT_NEW CUSTOM CUT ACOUSTIC CEILING AND T-BAR GRID. REFER TO SPEC PACKAGE FOR DETAILED SPECIFICATION.
- NEW GYPSUM CEILING TO MATCH HEIGHT OF EXISTING GYSUM CEILING. SITE VERIFY
- EXISTING GYPSUM CEILING TO REMAIN. PATCH AND REPAIR/PAINT ALL GYPSUM CEILINGS INCLUDING GYPSUM BULKHEADS THAT HAVE BEEN DAMAGED AS A RESULT OF PRIOR DEMOLITION
- NEW LINEAR LED FIXTURE. REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR SPEC
- NEW LED POT. REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR SPEC
- NEW MECHANICAL DIFFUSER. REFER TO MECHANICAL ENGINEER'S DRAWINGS FOR COORDINATION

KEYNOTES

- CAGE WITH DOOR AND PADLOCK

Note: 4 PNH, 4 SNH, 1 NCP, 1 PS-3 to come from Phase 6 Install.

1 / A201 PARTITION PLAN: 3RD FLOOR AREA 'B'
SCALE: 1:100

1 / A300 REFLECTED CEILING PLAN: 3RD FLOOR AREA 'A'
SCALE: 1:100

Symbol	Qty.	Item Description	Part Number
S	98	Secondary Hub w/ speaker	SNH c/w LA-1
TR	2	Transducer Speaker	T-1
NCP	1	Network Control Panel	NCP-2
PS3	6	Power Supply	PS3
18'	38	2 Conductor Cable Assembly	CA2-18
25'	1	2 Conductor Cable Assembly	CA2-25

Environmental ACOUSTICS INC.
Contact: Jen Damiani
jdamiani@enviraco.com

LogiSon® ACOUSTIC NETWORK

REVISION DATE:	NUMBER:

FIRM NAME:
York Region Administrative Centre
61 Zones

FIRM ADDRESS:
17250 Yonge Street
Newmarket, ON
3rd Floor Partial

PROJECT NUMBER:	DRAWING DATE:
1820-10	May 7, 2020
SHEET: 1	DRAWN BY: BF