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## NOTICE OF ADDENDUM

**Addendum No.:** 3

**Addendum Issue Date:** Wednesday, September 25, 2024

**Procurement No.:** PRC004616

**Procurement Name:** Construction Services for New Fire Station 124

**Closing Date:** Friday, September 27, 2024, 2:00 PM

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The additions, deletions, revisions and/or clarifications as hereinafter specified shall form an integral part of the bid document and shall be read in conjunction with the requirements set forth in the bid request document.

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### **QUESTIONS & ANSWERS**

#### **Question 1:**

On drawing S1.01, are the interior foundation walls on lines B and G similar to detail 6F/S2-01? Additionally, what is the elevation of the bottom of the footings in the wash bay area? This information is needed to calculate the height of the foundation walls.

#### **Answer 1:**

Yes, similar to 6F. Underside of footings on grid G will be 116.25. Underside of footings on grid B will be 116.40. Underside of footing elevations will be provided formally in Structural Addendum #1 (General Addendum #2). Please refer to 18\_APPENDIX\_Q\_PRC004616 Fire Station 124 - Addendum 2.

**Question 2:**

According to the substitution price schedule, door 131F (FFD-B - 4267 mm x 4267 mm) should be replaced with a four-fold truck door. However, on drawing A15, door 131F appears as an FFD door. Could you please confirm whether door 131F is an FFD or an O/H in the base bid, and advise on the appropriate replacement we should propose?

**Answer 2:**

The four-fold doors were revised to overhead doors in Addendum #1. The four-fold doors have been removed from this project.

**Question 3:**

In reference to electrical drawing E-601, please provide conduit and wiring details from the Service Entrance Switchboard to the Solar Photovoltaic entrance.

**Answer 3:**

Per VCT drawing E-201, feeder from main switchboard to solar PV entrance to be 4C-#1/0 AWG + GND, AL, ACWU (120A at 75deg C as per OESC Table #4).

**Question 4:**

Please provide the specifications for the (1) Transformers, and (2) Metering as they seem to be missing in the Specification Binder B.

**Answer 4:**

Refer to 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3 for electrical specification sections for distribution transformers and metering.

**Question 5:**

As per Appendix C Statement of Work, the project scope includes the supply and install of FF&E to be including but not limited to the - fitness equipment, dining chairs, dining table, lounge furniture, kitchen equipment, etc. However, the drawings (such as A02) indicate that the furniture, kitchen equipment, and fitness equipment are Not In Contract (NIC). Please clarify.

**Answer 5:**

Refer to the drawings and specifications that govern. Furniture, kitchen equipment and fitness equipment are NIC however placement and install is within scope.

**Question 6:**

The film spec shows apply to windows, screens and interior doors as noted on drawings, but we couldn't find the note for it, please confirm the locations

**Answer 6:**

Refer to A15, Door type C and Frame type 4. The door schedule will need to be referenced for the locations.

**Question 7:**

Alternates for M1 and M2 light fixtures - In reference to lighting schedule shown on drawing E-102, please advise if the attached alternate light fixtures are acceptable in lieu of M1 and M2 wall mounted light fixtures. Reference: E-102 and attached alternate. Please see attached Appendix to this Question attached.

**Answer 7:**

For exterior lighting alternates, we would require a photometric submission to verify that minimum illumination targets are maintained with substituted fixtures. We cannot comment on these fixtures without photometrics.

**Question 8:**

Paging and Public Address System - Specification section "PAGING AND PUBLIC ADDRESS SYSTEMS" 27 51 13 references a company called "Hamilton Video and Sounds Ltd." It seems that this company primarily does school system paging systems and doesn't provide fire department paging systems. It looks like this spec might not be applicable to this project as it references demo work as well. Could you please confirm if this is the correct spec, and if these are the required sole spec providers? Reference: Spec sec 27 51 13

**Answer 8:**

Revised Section 27 51 13 'Paging and Public Address Systems' issued as part of this Q&A response.

**Question 9:**

Re: Curtains

1) There are curtains/track shown in Dormitory Rooms, are these the same as those specified in Section 10 28 10?

**Answer 9:**

The Dormitory curtains and tracks are a cash allowance item. Section 10 28 10 refers to the shower curtains and rods.

**Question 10:**

Subcontractor list - Schedule of prices - On Bids and Tenders.ca Submission Step 3  
Subcontractors, as a part of the submission, there is a section for listing out all the sub-contractors that will be used. As you know, most of the sub-contractor prices come in very close to the tender closing time and it becomes quite difficult to fill in so much information in so many cells and rows in those last few minutes. With this in mind, I would like to request if we can either have the option to upload a file with all this contractor information, or, if you can kindly make this a 2-part closing where we have 24 hours to submit this section as part 2 of 2. Please advise. Additionally, please advise if there are certain specific trade scopes for which this information is needed (such as masonry, mechanical, electrical, etc.)? Looking forward to your kind response. Thank you.

**Answer 10:**

Bidders to use Step 3 Subcontractors (Sub-Contractors {if applicable}) to Provide a list of all sub-contractors that may be used in the provision of services, otherwise, there is a section for Bidders to click to confirm that there are no Subcontractor(s) and the Bidder shall perform the project with their "OWN FORCES".

**Question 11:**

Addendum # 1 Q&A # 3 indicates that Aluminum windows are not an acceptable option in lieu of fiberglass windows. On bids and tenders portal bid submission section 'Substitution Price Schedule' Section 3 is asking for the substitution of the same fiberglass windows with Aluminum windows. Please clarify.

**Answer 11:**

Addendum #1 Q&A #3 applies. The base bid is Fiberglass Windows, the Substitution Price schedule line item 3 has been carried only if value engineering measures are required.

**Question 12:**

Please clarify below questions received from our Mechanical Contractor

1. Please let me know who responsible is for removing of existing underground natural gas piping: Site service or mechanical contractor.
2. On drawing M201 it's shown two underground natural gas lines. One is going to generator. Please clarify where second line is going and how we should terminate it.
3. Please clarify what size of piping which is going between WH1 & 2 on the roof and storage tank ST-1.
4. There is domestic water pipe on drawing M201 with note 20. But note 20 doesn't provide any information. Please let me know what purpose of this pipe and what size.
5. Please clarify how we should terminate clean air intake piping inside of building as per drawing M400.
6. Please let me know what spec to use for Truck filling station. In spec it's written National Fire model 264 and on drawing M201 note 7 it's written 245.

**Answer 12:**

1. Since this work is shown on the mechanical drawings, the mechanical contractor is responsible.
2. The full extent of the gas piping is shown on M201 and M202.
3. The pipe sizes in question are 32mm dia, per pipe.
4. The pipe in question is a 20mm dia make up water for the boiler fill. This can be found under "boiler heating piping schematic" on M700.

5. This information can be found under the SCBA air compressor equipment cutsheet. If you do not have this, you can search MAKO Compressor, part # BAM08H3-575.
6. Truck fill shall be model 245.

**Question 13:**

1. Please let me know who responsible is for removing of existing underground natural gas piping: Site service or mechanical contractor.
2. On drawing M201 it's shown two underground natural gas lines. One is going to generator. Please clarify where second line is going and how we should terminate it.
3. Please clarify what size of piping which is going between WH1 & 2 on the roof and storage tank ST-1.
4. There is domestic water pipe on drawing M201 with note 20. But note 20 doesn't provide any information. Please let me know what purpose of this pipe and what size.
5. Please clarify how we should terminate clean air intake piping inside of building as per drawing M400.
6. Please let me know what spec to use for Truck filling station. In spec it's written National Fire model 264 and on drawing M201 note 7 it's written 245. Please clarify.

**Answer 13:**

Refer to Answer 12.

**Question 14:**

Please confirm if 50mm rigid insulation is required under the entire floor area or just the perimeter?

**Answer 14:**

It is required below the entire floor slab, refer to Floor Types F-1 – F-4 on A01.

**Question 15:**

With the question period closing on the 20th and assuming an addendum will following this with the outstanding questions, can the closing date be extended by a couple of days to allow for adequate time to review and prepare for the addendum clarifications

**Answer 15:**

The bid closing date and time will not be extended.

**Question 16:**

Security Specifications - Missing Certain information - In the security/electrical drawings, there are spots for burglar devices - motion detectors, glass breaks, keypads - but there are no specifications for said alarm. Please provide clarification in regards to that alarm and whether double pull double throw contacts are required which can be used for access and alarm. Reference: E-401

**Answer 16:**

Security equipment will be provided under the cash allowance. Base contract includes supply and install of conduit, power supplies and coordination.

**Question 17:**

Security - Card Reader Contact - In the security/electrical drawings, some doors with card readers do not have a contact or Rex. Is that by design or in error. Please provide clarification. Reference: E-401

**Answer 17:**

From review of the drawings, it appears this question pertains to doors 112A, 125A and 131A. Door hardware devices on electrical plans have been specified to match those called for in door hardware schedule on drawing A15 'Door Finish Schedule'.

**Question 18:**

Security drawing - clarification needed - In the security/electrical drawings, there is no indication as to where head ends are going. We assume IT room or mechanical room but need clarification please. Reference: E-401

**Answer 18:**

Head end equipment is located in IT Room 112.

**Question 19:**

Security drawing - Door Controller - As seen in the security/electrical drawings, is door controller part of security install or another provider. It seems, there are no specs for this item. Please advise. Reference: E-401

**Answer 19:**

Security equipment will be provided under the cash allowance. Base contract includes supply and install of conduit, power supplies and coordination.

**Question 20:**

Millwork Quality - In reference to Millwork Specification 06 40 00 section 1.4.4.2, the specifications mention a consultant review and acceptance. Please advise if this is AWMAC - GIS inspection or something else. Reference: Millwork Specification 06 40 00 1.4.4.2

**Answer 20:**

The Architect and Owner will review the mockup. AWMAC inspection is not required for this project.

**Question 21:**

Removal of gas line - The drawing MD-100 indicates that the high-pressure u/g gas line is to be demolished by the site services contractor; however, the site services contractors do not usually touch gas lines and it would need to be removed by the mechanical contractor. Please can you confirm that this is the scope of the mechanical contractor. Reference: MD-100

**Answer 21:**

Refer to Answer 12.

**Question 22:**

Domestic Water piping - There is domestic water pipe on drawing M201 with note 20. But note 20 doesn't provide any information. Please let me know what purpose of this pipe and what size. Reference: M201

**Answer 22:**

Refer to Answer 12.

**Question 23:**

Clean air intake piping other end termination - Please clarify how to terminate the clean air intake piping on the inside of the building as per drawing M400 (the termination at the outside is clear as per Note 9). Reference: M400

**Answer 23:**

Refer to Answer 12.

**Question 24:**

Truck Filling Station Specification - Please advise what spec to use for Truck filling station. In spec section 22 42 01 2.8.1, it's written National Fire Equipment model 264 and on drawing M201 note 7 it's written National Fire Equipment 245. Please clarify. Reference: M201 and Spec 22 42 01 2.8.1

**Answer 24:**

Refer to Answer 12.

**Question 25:**

Natural gas line to generator - On drawing M201, it shows an underground natural gas line with one end going to generator. Please clarify if the other end of the line is coming from Enbridge. Reference: M201

**Answer 25:**

Enbridge shall provide a high-pressure gas line up to gas meter.

**Question 26:**

Domestic Water piping - Please clarify what size of piping is going between WH1 & 2 on the roof and storage tank ST-1. Reference: M201

**Answer 26:**

Refer to Answer 12.

**Question 27:**

Clarification for Control Joints at Masonry walls - Please advise regarding the location of Exterior Masonry Control Joints.

The East and North Elevations on A07 have the Control Joints clearly indicated.

The South has no Control Joints indicated and the West Elevation only has 2 Control Joints indicated.

The specification does say where not indicated place Control Joints every 6 m but the East has the control joint every 5 m.

As for the North elevation, the distance between control joints is not typical.

As the East Elevation spacing between control joints is 5m, should the other control joints be placed at 5m and not 6m spacing? Please advise. Reference: A07

**Answer 27:**

Assume a control joint every 5m unless otherwise noted. The final location will be coordinated during construction.

**Question 28:**

Question related to Solar Panels

Appendix G page 636, 2.07 Power Wire/Cable, part C, point b:

All PV Wire shall be contained within the PV array and mechanically protected and fully enclosed between rows, arrays, and to inverters. Use of PVC for mechanical protection within the array, between rows only, is permitted. PVC DC conduits are not permitted outside of the array edge instead ARC must be used as noted previously.

Please clarify What is meant by ARC must be used as previously noted? We are unable to find a reference to ARC except for when referring to ARC flash.

**Answer 28:**

ARC refers to aluminum rigid conduit to ensure proper mechanical protection. PVC outside of the arrays will not be accepted.

**Question 29:**

Question related to Reinforced Concrete Apron & Concrete Driveway  
Section 3F/S2-01 shows Concrete apron detail including reinforcement. It notes Concrete driveway SEE Arch / Civil for extents. We Understand that extent is shown on drawing SP1. Please clarify what are the reinforcing and concrete apron thickness requirement?

**Answer 29:**

The concrete apron reinforcing, and thickness requirements are noted in detail 3F/S2-01. The unreinforced concrete driveway assembly can be found on CV-2 Grading Plan. "Recommended Preliminary Concrete Pavement Thickness" Table located in the bottom left of the sheet.

**Question 30:**

Are there any rigid insulation / Insulation requirement below concrete driveway?  
We understand 50mm rigid insulation is being installed below concrete apron as per F-4 Legend Drawing A01.

**Answer 30:**

No insulation is required below the concrete driveway.

**Question 31:**

Sequence of Operation for DHW Heat Pumps states Division 25 wires the temperature sensors to the master panel, but the Control Point List shows sensors hardwired to BAS. Please clarify if the sensors are wired to the master panel and integrated through BACnet, or if they must be hardwired to the BAS controller

**Answer 31:**

Sensors are wired to the master panel or plant controller.

**Question 32:**

Sequence of Operation for Electric Boiler states Division 25 supplies the flow sensor, LWCO, high limit. These devices are typically shipped loose with the boilers for field installation. Please confirm that Division 25 needs to supply these devices.

**Answer 32:**

Refer to boiler specification and coordinate/discuss with the mechanical contractor or boiler manufacturer.

**Question 33:**

Sequence of Operation for Electric Boiler states Division 25 wires the flow sensor, LWCO, high limit to the boiler control panel. The Control Point List shows hardwired inputs for these devices. Please confirm if these are wired to the boiler control panel and not directly to a BAS controller.

**Answer 33:**

These devices are wired to the boiler control panel.

**Question 34:**

Sequence of Operation for Radiant In-Floor Heating System states the status points are picked up at the BAS, which can happen through BACnet integration. The Control Point List shows hardwired Room Temperature and Outdoor Air Temperature. Please clarify if the BAS should supply and install those sensors on a BAS controller in addition to the In-Floor Heating sensors, or if they should only be picked up through BACnet.

**Answer 34:**

BAS is to provide these sensors with a controller, in addition to the in-floor heating sensors.

**Question 35:**

Exhaust Fan EF-1 appears in the Sequence of Operation for both the SCBA Room Exhaust and the Gas Detection. The fan that appears to be serving the SCBA Room is EF-4, which has a separate sequence to tie in with SF-1. Please clarify which fans correspond to these sequences.

**Answer 35:**

The SCBA room fan is EF-2. Section 25 90 00 subsection 3.9 shall be revised to "SCBA ROOM EXHAUST FAN EF-2".

**Question 36:**

The sequence of operation for Ceiling Hunt Fans (CF-1, 2) states that Division 25 supplies and installs a speed switch. These fans are coming with their own BACnet speed controller. Please confirm if an additional speed switch is required, or if these fans should be integrated via BACnet.

**Answer 36:**

Refer to Section 23 34 16 subsection 2.4 and refer to "overhead fan controls".

**Question 37:**

The sequence of operation for Dehumidifier calls for some status points on BAS. The Control Point List shows these as hardwired status points and there is no call for BACnet integration to the unit. Please confirm that the status points are hardwired to a BAS controller. Please confirm that BACnet integration is not required.

**Answer 37:**

The points indicated in 25 90 00 are hardwired to the BAS controller and BACnet integration is required.

**Question 38:**

The sequence of operation for Electrical Room (Split Systems) calls for BAS status of the fan coils and condensing units, which can be through BACnet, but the Control Point List shows hardwired binary status points and binary start/stop. Please confirm if these units should be controlled by BAS via hardwired connections or through BACnet.

**Answer 38:**

Based on the point list, whichever points are not provided by the VRF manufacturer then the BAS controller shall hardwire and control these missing points.

**Question 39:**

- 1• Can you please clarify which tactile plates (Kinesik) to use for exterior concrete flatworks. Architectural Section 31 23 10 states 24"x60"-72" wide Armor Tile (No colour stated), whereas architectural section 32 33 00 calls out Cast Iron Advantage tiles and the colour to be Onyx Black. These do not exist as only the plastic tiles can be coloured. Can you please specify the make, material, colour, and size for the plates needed.
- 2• Please confirm if the concrete driveway is to be 250mm thick with no reinforcing with 32MPa concrete.
- 3• Please confirm if the expansion joints in the concrete paving are to be caulked.
- 4• Can regular steel rebar be used for the concrete apron (3F/S2-01) instead of epoxy coated?
- 5• Please specify what detail/city standard is to be used for the HD Rollover curb (along the rear parking stalls) shown on drawing SP1
- 6• Regarding the concrete barrier curb & sidewalk (Including monolithic) etc, which details are to be used as the landscape details and "09\_APPENDIX\_H\_ADs & Geotech" details differ.

**Answer 39:**

1. Follow specification section 31 23 10. Provide colour selections with shop drawing submission. Refer to 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3 (page 1, item #5).
2. The unreinforced concrete driveway assembly can be found on CV-2 Grading Plan. "Recommended Preliminary Concrete Pavement Thickness" Table located in the bottom left of the sheet.

3. Control joint caulking is not required.
4. Epoxy coated rebar shall be used where specified.
5. Install the HD rollover curb in accordance with OPSD 600.090. Refer to the site plan for the exact dimensions of the proposed rollover curb.
6. The Landscape details shall govern.

**Question 40:**

Please clarify below Questions received from Civil subtrade

1. Please mark the existing asphalt/concrete paving & ex. topsoil areas on the survey drawing to figure out removal of these surfaces. BH12-22 & BH14-22 shows 70mm of asphalt and borehole MW4-22 shows 50mm thick topsoil, but no drawing shows the extent of this material.
2. As per addendum #1 (Ref. drawing CV-1) the hatched areas (areas outside proposed building & paving) is to be excavated 1.0m below proposed grades (as part of pre-grade requirement). Also, as per structural drawing S1-01 site preparation note #1, proposed building area to be excavated at least 1.0m below existing grade. So, proposed asphalt & other paved areas will be upfilled up to subgrade level from existing grades (without any removal); please confirm there is no additional removal required in the asphalt areas.
3. As per addendum #1 section 01 35 43 (Environmental Procedures – Soil Management) all excavated material is to be treated as contaminated soil, as most of the commercial site accepting clean fill needs chemical parameters meeting Table 2.1. On this site most of the boreholes does not meet even Table 3.1 criteria; so all material for removal will be treated as contaminated soil and only to be removed to license facility accepting contaminated soil. Please confirm. Is removal of contaminated soil, part of cash allowance? Removal of contaminated soil (trucking & disposal) should be paid from cash allowance based on unit rates, as disposal cost will be very exorbitant.
4. As per specification binder A – section 00 11 00 item 1.34.8.5 (page 16 of section 00 11 00), water & sanitary connection are part of cash allowance. Please clarify what scope to price; based on this section, we assume all work up to property line (including decommissioning and/or removal) for sanitary & watermain is not part of base bid. Storm connection up to and including MH12 (Ref. DWG CV-3) to be included in base bid. Please confirm.
5. Site servicing drawing CV-3 shows section through infiltration pit (detail shows 250mm diameter header & 150mm diameter perforated pipe); I don't see infiltration pit in the plan. Please provide location & size of infiltration pit. Please see the attachment

**Answer 40:**

1. Drawing 'CV-1 Erosion & Sediment Control and Removal Plan' provided in Addendum 2 and drawing 'CV-2 Grading Plan' each include the existing grade elevations from the survey. All soil excavated is required to be removed from the site and disposed of per specification section '01 34 43 Environmental Procedures – Soil Management'. Excavated soil may not be re-used on the site.
2. Excavation and soil removal in the asphalt areas is as required to reach the asphalt sub-grade elevations. The contractor is responsible for verifying the actual volume of material to be removed or imported for fill in the asphalt areas, based on the existing site grades, proposed finished grades, and subgrade requirements.
3. All existing grade elevations, removals and proposed grades have been provided. All excavation, removal and site fill required to meet design grades is to be included within the base bid and will not be considered as a Cash Allowance.
4. All work up to and beyond the property line shall be in contract. Only the connection permit fees to the Region of Peel are part of the cash allowance.
5. The proposed infiltration pit is no longer applicable and has been replaced with the ACO underground chamber for water retention. Please disregard the pit and its associated details.

**Question 41:**

1. Please confirm the base type for the Epoxy Flooring. Spec Section 096723 currently say "Integral Cove Base- TBD"
2. "Type B Phenolic Panel Cladding" is indicated on the legend on the RCP but unable to find it on the drawing. Please clarify the location.

**Answer 41:**

1. Resilient Rubber Base, refer to room finish schedule on A04. The specification section 09 67 23 has been modified in 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3. (page 1, item #3).
2. Refer to 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3. (Page 1, item #6).

**Question 42:**

We have entered the key office and site personnel but the checkmarks don't appear making these fields seem incomplete. Is there an issue?

**Answer 42:**

If you have issues, please bidsandtenders Contact Support

P: 1-800-594-4798

E: support@bidsandtenders.ca

**Question 43:**

Please provide a copy of the latest Stormwater Management report complete with design details and manufactures TSS calculations.

**Answer 43:**

The report has been included in Addendum #3, refer to 21\_APPENDIX\_T\_FS124 - FSR Report - Addendum 3.

**Question 44:**

Four-Fold doors were removed from the scope of work in addendum #1. should we ignore detail 21/A12, 7/A14,?

Four-Fold doors were removed from the door schedule on A15. Should we remove the notes on the comments column for these doors?

**Answer 44:**

Refer to 17\_APPENDIX\_P\_PRC004616 Fire Station 124\_Addendum 1, 1. A12, A14 & A15 were reissued with revised door graphics and door schedule comments.

**Question 45:**

On elevation 6/A14, W6 is noted to be fiberglass window. The door on this opening as per floor plan A02 is door 100 A. This door-on-door schedule on A15, is noted to be Aluminum.

In elevation 6/A14, are all the window/transom fiberglass and only the door is aluminum or in this elevation, only window marked as W6 (1.29 M. X 2.00 M.) is fiberglass and the rest of the elevation including transom and door and door frame are aluminum? Please clarify.

**Answer 45:**

Only the door is aluminum, the windows are fiberglass. The interference between the door and window at this location shall be covered with a colour matched aluminum transition strip.

**Question 46:**

On drawing M100, there are notes on existing High Pressure Gas lines to be removed. Shouldn't this work be done by the utility company? Is the GC allowed to complete this removal?

**Answer 46:**

Refer to Answer 12.

**Question 47:**

please confirm that the gas service will be provided by the gas utility company up to the building (NIC) and the only scope of exterior gas piping included in this tender is from the metered to the new generator.

**Answer 47:**

Enbridge shall be responsible for providing gas up to the gas meter. The full extent of the gas piping is shown on M201 and M202.

**Question 48:**

On electrical drawing E-101, it is unclear as to where each ductbank cross section applies to on the site plan. Please clearly number the cross sections and apply the numbered cross sections on the site plan so that we can allow for proper application of each cross section.

**Answer 48:**

Refer to 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3 updated drawing E-101 being issued as part of this addendum.

**Question 49:**

On drawing E-101, what is the 11-inch layer in below cross sections? Is this concrete encasement or sand? Non-Drivable Area - Feeder Trench Detail, Drivable area - Future EV Charger Feeder Trench Detail, Communication and Future Conduit - Below ground Trench Detail, Secondary Ductbank Section.

**Answer 49:**

See below for confirmation for each detail:

Non-Drivable Area - Feeder Trench Detail – Sand

Drivable area - Future EV Charger Feeder Trench Detail - Sand

Communication and Future Conduit - Below ground Trench Detail - Sand

Secondary Ductbank Section – Concrete Encasement

**Question 50:**

Please clarify below questions received from Electrical trade

**SOLAR PV QUESTIONS**

1. Are alternates to Longi 600 PV modules accepted? We can offer Thornova 610s & 580s as alternates and these are cheaper than Longi 600.
2. We have to get a custom quote for the racking system as this is a ballasted system. We will need the following information for racking:
  - Preferred Module Tilt (5 or 10 ° manufactured in North America, 13° imported from Germany)?
  - Module Orientation (South or East/West)?
  - What is most important - Achieve panel count, preferred tilt or preferred orientation?
  - Height of Building (ft)?
  - Height of Parapet (in)?
  - Roof pitch (up to 5° fully ballasted, 5-10° additional anchors are necessary)?
  - Layout attached? CAD file preferred, displaying all obstructions

### **GENERATOR QUESTION**

1. Toromont does not make a 550kW Natural gas generator. They have to quote G3512 model which is rated 750-1250kW and will be overpriced for this tender, so they will have to pass unless the rating could be changed to 500kW. Please let us know if that will be possible.

Electronic Safety & Security

1. Please provide specifications for security devices, please let us know if you want a burglar system and provide specifications.

### **Answer 50:**

See responses below:

### **Solar PV Questions:**

1. Please provide as an alternate, including credit for consideration. Base bid to be using Longi 600.
2. Please refer to module layout and building drawings for all information requested in this question. Racking can be sourced using the provided layout.

### **Generator Questions:**

1. Generator sizing to remain as per contract documents. Electronic Safety & Security
1. Security devices are to be covered under a Cash Allowance.

### **Question 51:**

Please clarify how we should terminate clean air intake piping inside of building as per drawing M400.

### **Answer 51:**

Refer to Answer 12.

### **Question 52:**

Which spec should we use for Truck filling station? In spec it's written National Fire model 264 and on drawing M201 note 7 it's written 245

### **Answer 52:**

Refer to Answer 12.

**Question 53:**

Please clarify what size of piping which is going between WH1 & 2 on the roof and storage tank ST-1.

**Answer 53:**

Refer to Answer 12.

**Question 54:**

There is domestic water pipe on drawing M201 with note 20. But note 20 doesn't provide any information. Please let me know what purpose of this pipe and what size.

**Answer 54:**

Refer to Answer 12.

**Question 55:**

On drawing M201 it's shown two underground natural gas lines. One is going to generator. Please clarify where second line is going and how we should terminate it.

**Answer 55:**

Refer to Answer 12.

**Question 56:**

Could you please provide clarification for the following fire protection scope of work:

- As per the drawing attached with mark up in blue are we allowed to substitute all flange connections with Victaulic grooved connection.
- As per the drawing attached with mark up in red are we allowed to switch the OS&Y shut off valve to a butterfly valve.

**Answer 56:**

Flange connections shall be used. OS&Y shall be used.

**Question 57:**

- As per the drawing attached with mark up in blue are we allowed to substitute all flange connections with Victaulic grooved connection.
- As per the drawing attached with mark up in red are we allowed to switch the OS&Y shut off valve to a butterfly valve.

**Answer 57:**

Refer to Answer 56.

**Question 58:**

Please see attached Insurance RFI Related to SCHEDULE A - INSURANCE REQUIREMENTS

**Answer 58:**

There will be no changes to Schedule\_A\_StdConsIns.

**Question 59:**

Can the removal of all contaminated soil be carried under cash allowance instead of base bid as from current scenario it is difficult to get the exact quantity of contaminated soil

**Answer 59:**

All existing grade elevations, removals and proposed grades have been provided. All excavation, removal and site fill required to meet design grades is to be included within the base bid and will not be considered as a Cash Allowance.

**Question 60:**

Is there any excessive fill removal required below asphalt and concrete area or just below landscape area?

**Answer 60:**

The excavation and removals required to meet proposed grades for asphalt and concrete areas and their associated sub-grade materials is sufficient and no additional removal of existing material in those areas are required.

**Question 61:**

Please provide a copy of the Stormwater Management Report.

**Answer 61:**

Functional Servicing and Stormwater Management report issued with Addendum #3.  
Please refer to 21\_APPENDIX\_T\_FS124 - FSR Report - Addendum 3.

**Question 62:**

Roofing Question

It is mentioned in the drawing and spec section 075210 the top layer of insulation should be 6 inch, Are we allowed to use 2 layers of 3 inch.

**Answer 62:**

Two layers of 75mm polyiso rigid insulation over 100mm of polyiso rigid insulation is acceptable.

**Question 63:**

Cabling Manufacturer - Belden - Please can you please confirm that the only cable manufacturer approved will be Belden in accordance with the City of Mississauga Network Cabling Standards? There is conflicting information provided in the specifications for more cabling options as per the attached extracted screenshots. Please see attached Appendix to this Question. (Reference: Communication Specifications 27 10 00)

**Answer 63:**

Confirming only Belden will be accepted in accordance with the City of Mississauga Network Cabling Standards. Electrical specification has been revised, refer to 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3, which carries this item with the revised Communications Specifications 27 10 00.

**Question 64:**

Equipment Manufacturer - Cable Talk - Please can you please confirm that the only acceptable equipment manufacturer will be Cable Talk in accordance with the City of Mississauga Network Cabling Standards? There is conflicting details provided in the specifications for this scope as per the attached extracted screenshots. Please see attached Appendix to this Question. (Reference: Communication Specifications 27 10 00)

**Answer 64:**

Confirming only Cable-Talk will be accepted in accordance with the City of Mississauga Network Cabling Standards. Electrical specification revised to remove alternates, as per 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3.

**Question 65:**

DAS scope - Please advise if you are looking for DAS scope to be priced. Reference: Communication drawings & specifications

**Answer 65:**

Yes, refer to drawings and electrical specification Section 27 40 10 "Distributed Antenna System (DAS)". Refer to 06\_APPENDIX\_E\_PRC004616 DRAWINGS - FS124 TENDER - August 12 and 08\_APPENDIX\_G\_PRC004616 SPEC BINDER B Mech & Elect- FS124 TENDER - August 12

**Question 66:**

Clock scope - Please can you confirm that there is no clock scope. Reference: Communication drawings & specifications

**Answer 66:**

Locations of **battery-operated** clocks added to drawing E-401. Associated specification section to be updated to delete references to Master Wireless GPS Clock System, Master Wireless Network Clock System and Master Wired Clock System. Refer to 19\_APPENDIX\_R\_PRC004616 Fire Station 124 - Addendum 3 HA - FROM HOSSACK - Addendum 3.

**Question 67:**

Is there any Arborist report available?

**Answer 67:**

Arborist Report by Burnside is provided with this addendum please refer to 20\_APPENDIX\_S\_FS124 - Arborist Report - Addendum 3.

**Question 68:**

Please clarify Question on Truck EV Charger:

The specifications are not clear. Is this a Lvl 2 or Lvel 3 charger? Per info in Dwg E-202 appear to be suspended from ceiling/roof structure.

Pls provide preferred make, Lvl or kW rating etc. or provide detailed, clear specs.

**Answer 68:**

Per single line diagram, the truck EV charger is not in contract.

**Question 69:**

We'd like to request a 1-week extension due to a busy tender schedule and to give subtrades more time to review all requirements on this project.

**Answer 69**

The bid closing date and time will not be extended.

**Question 70:**

Please confirm whether the entire access control scope of work on drawing E-401 (Supply and Install of items listed in Section 28 13 33 Integrated Access Controls) is carried under cash allowance.

**Answer 70:**

GC base contract to include provision of conduit, power supplies, and coordination. Provision of wiring and devices to be covered by cash allowance.

**Question 71:**

Please confirm that the network cabling scope of work (telecommunications, audio-visual) on drawing E-401 is to be carried under cash allowance

**Answer 71:**

Both are base scope.

**Question 72:**

Communications - Cabinet and racking requirements - Could you kindly provide detail regarding the cabinet and racking requirements? There is no communications riser or details available in the documents. Reference: Communication drawings & specifications

**Answer 72:**

Confirmation of the cabinet and racking requirements to be confirmed with the successful bidder at kick off meeting.

Contractor to allow for the following in base-contract

- Equipment rack including passive equipment/accessories
- Refer to electrical specification section 27 10 00 "Structured Cabling

This Addendum is issued by the City of Mississauga and is in effect as of the Addendum Issue Date.

Hyacinth Menezes Trivedi

Daniel Jagdeo

Procurement Services, City of Mississauga

**End of Addendum**